



APPENDIX A

Boring and Test Pit Logs, Well Construction Diagrams

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Well No. MW-1	
BORING LOCATION:		GROUND SURFACE ELEVATION AND DATUM: 7.1 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/17/08	DATE FINISHED: 7/17/08
DRILLING METHOD: Hollow-stem auger (Limited Access)		TOTAL DEPTH (ft.): 15.0	SCREEN INTERVAL (ft.): 7.0-12.0
DRILLING EQUIPMENT: CME-55		DEPTH TO WATER: 5.0 ft	COMPL. NA CASING: 2" Sch. 40 PVC
SAMPLING METHOD: Dames & Moore (1.5' x 3.25")		LOGGED BY: C. Brown	
HAMMER WEIGHT: 140lb	DROP: 30"	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES		OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample Blows/ Foot			
0				Surface Elevation:	
0 - 1	GMX-MW-1-0-1.5	7 20 50/4"	0	POORLY GRADED SAND with SILT (SP-SM): grayish brown (10YR 5/2), dry, 80% fine to coarse sand, 10 % fine gravel, 10% non-plastic fines moist, black (10YR 2/1)	* OVM = Photovac 2020 calibrated to 100 ppm isobutylene standard
1 - 2		30 50/6"	0	SILTY SAND (SM): very dark brown (10YR 2/2), moist, 80% fine to coarse sand, 15% non-plastic fines, 5% fine gravel	Basalite Concrete
2 - 3		13 14 25	0	POORLY GRADED SAND (SP): dark brown (10YR 3/3), moist, 85% fine to coarse sand, 10% fine gravel, 5% non-plastic fines	Medium bentonite chip (Pure Gold) seal
3 - 4		3 14 4	0	dark gray (10YR 4/1) wet	* Sample collected from 4.5-6.5 due to limited recovery
4 - 5	GMX-MW-1-4.5-6.5	6 7 9	0	light yellow ash, red wood	2" diameter Schedule 40 PVC casing
5 - 6		50/6"	0	wood fragments, shell	8.25" diameter bore hole
6 - 7		3 9 20	0	wet, 85% medium to coarse sand, 10% fine gravel, 5% non-plastic fines, wood	Cemex 2/12 Lapis Lustre Sand filter pack
7 - 8		50/2	0	wood	Schedule 40 PVC well screen with 2" diameter and 0.010" slot
8 - 9		9 4 9	0	FAT CLAY with SAND (CH): greenish gray (5GY 5/1), wet, 80% fines, 20% fine sand, high plasticity	2" diameter Schedule 40 PVC end cap
9 - 10		3 2 3	0	FAT CLAY (CH): greenish gray (5GY 5/1), wet, 100 fines, high plasticity, wood strings	
10 - 11					
11 - 12					
12 - 13					
13 - 14					
14 - 15					
15 - 16				Bottom of boring at 15.0 feet. Approval from Ecology to screen from 7 feet to 12 feet.	
16 - 17					
17 - 18					
18 - 19					
19 - 20					

OAKWELLV (REV. 9/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Well No. MW-2	
BORING LOCATION:		GROUND SURFACE ELEVATION AND DATUM: 9.2 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/17/08	DATE FINISHED: 7/17/08
DRILLING METHOD: Hollow-stem auger (Limited Access)		TOTAL DEPTH (ft.): 13.5	SCREEN INTERVAL (ft.): 7.0-11.8
DRILLING EQUIPMENT: CME-55		DEPTH TO FIRST WATER: 4.0 ft	COMPL. NA
SAMPLING METHOD: Dames & Moore (1.5' x 3.25")		LOGGED BY: C. Brown	
HAMMER WEIGHT: 140lb	DROP: 30"	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES		OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample Blows/ Foot			
0				POORLY GRADED SAND WITH SILT (SP-SM)	<p>* OVM = Photovac 2020 calibrated to 100 ppm isobutylene standard</p> <p>Basalite Concrete</p> <p>Medium bentonite chip (Pure Gold) seal</p> <p>Cemex 2/12 Lapis Lustre Sand filter pack</p> <p>2" diameter Schedule 40 PVC casing</p> <p>8.25" diameter bore hole</p> <p>Schedule 40 PVC well screen with 2" diameter and 0.010" slot</p> <p>2" diameter Schedule 40 PVC end cap</p>
1	GMX-MW-2-0-3	10	0	SANDY SILT with GRAVEL (SM): very dark grayish brown (10YR 3/2), moist, 70% fines, 15% fine to medium sand, 15% fine gravel, low plasticity, firm, yellow and gray mottling, odor	
2		12	0	POORLY GRADED SAND with SILT and GRAVEL (SP-SM): black (10YR 2/1), moist, 75% fine to coarse sand, 15% fine gravel, 10% non-plastic fines, brick and wood fragments	
3		9	0		
4		20	0	SANDY SILT with GRAVEL (SM): black (10YR 2/1), moist, 45% fine to medium sand, 40% fine to coarse subangular to subrounded gravel, 15% non-plastic fines wet	
5		25	0	Solid black wood debris	
6		9	0	SANDY SILT (ML): black (10YR 2/1), wet, 70% fines, 25% fine to medium sand, 5% fine gravel, no odor	
7	GMX-MW-2-7-9	6	0	60% wood	
8		7	0	80% wood, soft, rotten	
9		9	0		
10		10	0		
11		6	0		
12	GMX-MW-2-12-12.5	6	0	LEAN CLAY (CL): greenish gray (10Y 5/1), wet, 100% fines, medium plasticity	
13		12	0	Bottom of boring at 13.5 feet. Approval from Ecology to screen from 7 feet to 12 feet.	
14		6			
15					
16					
17					
18					
19					
20					

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Well No. MW-3	
BORING LOCATION:		GROUND SURFACE ELEVATION AND DATUM: 8.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/17/08	DATE FINISHED: 7/17/08
DRILLING METHOD: Hollow-stem auger (Limited Access)		TOTAL DEPTH (ft.): 15.1	SCREEN INTERVAL (ft.): 5-14.8
DRILLING EQUIPMENT: CME-55		DEPTH TO WATER: 5 ft	COMPL. NA CASING: 2" Sch. 40 PVC
SAMPLING METHOD: Dames & Moore (1.5' x 3.25")		LOGGED BY: C. Brown	
HAMMER WEIGHT: 140lb	DROP: 30"	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES		OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample Blows/ Foot			
0				POORLY GRADED GRAVEL (GP): dry, 95% fine to coarse gravel, 5% non-plastic fines, angular	<p>* OVM = Photovac 2020 calibrated to 100 ppm isobutylene standard</p> <p>Basalite Concrete</p> <p>Medium bentonite chip (Pure Gold) seal</p> <p>2" diameter Schedule 40 PVC casing</p> <p>8.25" diameter bore hole</p> <p>Cemex 2/12 Lapis Lustre Sand filter pack</p> <p>Schedule 40 PVC well screen with 2" diameter and 0.010" slot</p> <p>2" diameter Schedule 40 PVC end cap</p> <p>Medium bentonite chip (Pure Gold) seal</p>
1		16	50/6"		
2		45	64	POORLY GRADED SAND with GRAVEL (SP): dark greenish gray (10Y 4/1), moist, 80% fine to coarse sand, 15% fine gravel, 5% non-plastic fines, odor	
3		30	34		
4		24	2.6		
5		7		SILTY SAND (SM): black (N 2.5/), wet, 70% fine to coarse sand, 20% non-plastic fines, 10% fine gravel slight sheen	
6		6	11	wood waste, rotten, solid, red	
7		5	6		
8		3	1.2	wood	
9		6	6		
10		8	5	wood	
11		12	0		
12		4		wood	
13		8			
14		30		solid wood, rotten	
15		11			
16		16			
17		25		LEAN CLAY with SAND (CL)	
18		50/6"		LEAN CLAY (CL): greenish gray (10Y 5/1), wet, 95% fines, 5% fine sand, medium plasticity, wood, shell	
19		50/2"		wood with gravel	
20				Bottom of boring at 18.0 feet.	

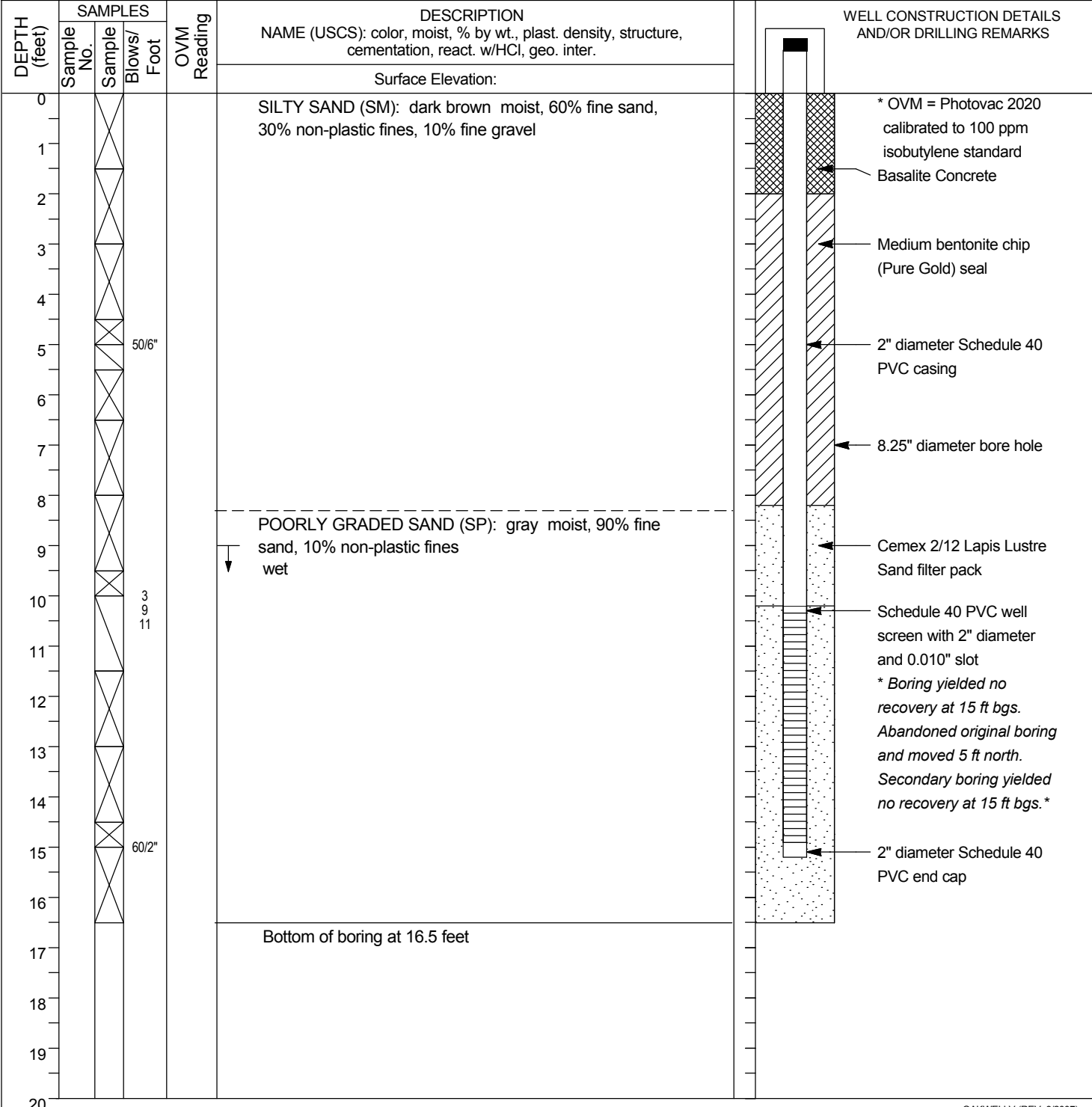
PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Well No. MW-4	
BORING LOCATION:		GROUND SURFACE ELEVATION AND DATUM: 8.5 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Hollow-stem auger (Limited Access)		TOTAL DEPTH (ft.): 20.0	SCREEN INTERVAL (ft.): 10-20
DRILLING EQUIPMENT: CME-55		DEPTH TO WATER: 9.5 ft	COMPL. NA
SAMPLING METHOD: Dames & Moore (1.5' x 3.25")		LOGGED BY: N. Bacher	
HAMMER WEIGHT: 140lb	DROP: 30"	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
0			3 17 11		SILTY SAND (SM): dark brown moist, 75% fine to coarse sand, 15% non-plastic fines, 10% fine angular gravel, traces of wood FAT CLAY (CH): set, 100% fines, high plasticity	<p>* OVM = Photovac 2020 calibrated to 100 ppm isobutylene standard</p> <p>Basalite Concrete</p> <p>Medium bentonite chip (Pure Gold) seal</p> <p>2" diameter Schedule 40 PVC casing</p> <p>*40% Wood</p> <p>8.25" diameter bore hole</p> <p>Cemex 2/12 Lapis Lustre Sand filter pack</p> <p>Schedule 40 PVC well screen with 2" diameter and 0.010" slot</p>
1						
2						
3					SILT with SAND (ML): dark brown moist, 60% low plasticity fines, 20% fine to medium sand, 20% fine gravel, wood debris, slight odor	
4						
5						
6			3 7 10			
7						
8						
9					WOOD (Z): orange sawdust with wood chunks, strong odor	
10					wet	
11						
12			3 7 11			
13						
14						
15						

OAKWELLV (REV. 9/2007)

DEPTH (feet)	SAMPLES			OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ Foot			
15			50/2"		SILT with SAND (ML): dark brown wet, 50% low plasticity fines, 25% fine to medium sand, 25% fine gravel, wood fragments, strong odor	*50% Wood
16						
17						
18						
19					FAT CLAY (CH) with wood fragments	
20			7 13 11		FAT CLAY (CH): bluish gray wet, 100% fines, high plasticity	2" diameter Schedule 40 PVC end cap
21						
22					Bottom of boring at 21.5 feet. Approval from Ecology to screen from 10 feet to 15 feet.	
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Well No. MW-5	
BORING LOCATION:		GROUND SURFACE ELEVATION AND DATUM: 8.1 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Hollow-stem auger (Limited Access)		TOTAL DEPTH (ft.): 16.5	SCREEN INTERVAL (ft.): 10.2-15.2
DRILLING EQUIPMENT: CME-55		DEPTH TO WATER: 9 ft	COMPL. NA CASING: 2" Sch. 40 PVC
SAMPLING METHOD: Dames & Moore (1.5' x 3.25")		LOGGED BY: N. Bacher	
HAMMER WEIGHT: 140lb	DROP: 30"	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

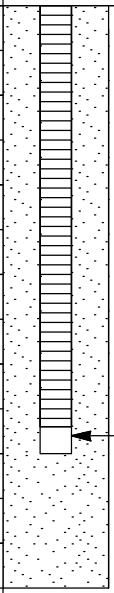


OAKWELLV (REV. 9/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Well No. MW-6	
BORING LOCATION:		GROUND SURFACE ELEVATION AND DATUM: 9.2 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Hollow-stem auger (Limited Access)		TOTAL DEPTH (ft.): 21.5	SCREEN INTERVAL (ft.): 10-20
DRILLING EQUIPMENT: CME-55		DEPTH TO WATER: 9.5 ft	COMPL. NA CASING: 2" Sch. 40 PVC
SAMPLING METHOD: Dames & Moore (1.5' x 3.25")		LOGGED BY: N. Bacher	
HAMMER WEIGHT: 140lb	DROP: 30"	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ Foot			
0						
1						
2						
3						
4						
5			3 11 17			
6					WOOD orange colored sawdust, odor	
7						
8						
9						
10			10 11 3		wet WOOD wood fragments and bark, strong odor	
11						
12						
13						
14						
15						

OAKWELLV (REV. 9/2007)

DEPTH (feet)	SAMPLES			OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ Foot			
15			2 2 3		WOOD (Z): dark brown wet, small wood fragments	 <p style="text-align: right; margin-right: 50px;">2" diameter Schedule 40 PVC end cap</p>
16					SILT with GRAVEL (ML): gray wet, 70% low-plasticity fines, 20% fine gravel, 10% fine sand	
17						
18						
19					FAT CLAY (CH): bluish gray wet, 95% fines, 5% fine sand, moderately firm, medium to high plasticity,	
20			6 8 7			
21					Bottom of boring at 21.5 feet.	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Well No. GMX-MW-07	
BORING LOCATION: N. 550108.8; E. 1211473.9		GROUND SURFACE ELEVATION AND DATUM: 12.7 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/10/09	DATE FINISHED: 8/10/09
DRILLING METHOD: Hollow-stem auger		TOTAL DEPTH (ft.): 12.0	SCREEN INTERVAL (ft.):
DRILLING EQUIPMENT: CME 85		DEPTH TO WATER: 4.5	COMPL. CASING: 2" Sch. 40 PVC
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]		LOGGED BY: N. Bacher	
HAMMER WEIGHT: 300 lb	DROP: 30"	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation: 12.31 feet TOC	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample Blows/ Foot	Blows/ Foot			
0					SILTY SAND (SM): light grayish brown (10YR 6/2), dry, 85% fine to coarse sand, 15% non-plastic fines, trace fine gravel, rootlets	
1			10 6 2	↓	olive gray (5Y 5/2), 80% fine to medium sand, 20% non-plastic fines	
2			6 3 3	↓	moist	
3			1 1 1	↓	wet	
4			1 1 3		WOOD: orange-brown, sawdust to bark, moderate hydrogen sulfide-like odor	
5			1 1 3	↓	sawdust, very soft	
6			1 1 2		bark fragments, splintered wood pieces	
7			2 3 5	↓	LEAN CLAY (CL): gray (10YR 5/1), 95% fines, 5% fine sand, stiff	
8					Bottom of boring at 12.0 feet.	
9						
10						
11						
12						
13						
14						
15						
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Well No. GMX-MW-08	
BORING LOCATION: N. 550108.8; E. 1211520.5		GROUND SURFACE ELEVATION AND DATUM: 11.7 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/10/09	DATE FINISHED: 8/10/09
DRILLING METHOD: Hollow-stem auger		TOTAL DEPTH (ft.): 13.5	SCREEN INTERVAL (ft.):
DRILLING EQUIPMENT: CME 85		DEPTH TO WATER: 5.0	COMPL. CASING: 2" Sch. 40 PVC
SAMPLING METHOD: Split-spoon drive sampler [18" x 1 3/8"]		LOGGED BY: N. Bacher	
HAMMER WEIGHT: 300 lb.	DROP: 30"	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation: 11.37 feet TOC	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample Blows/ Foot				
0					SILTY SAND (SM): brown (10YR 4/3), dry, 85% fine to coarse sand, 15% non-plastic fines, rootlets	
1		6			POORLY GRADED SAND with SILT (SP-SM): dark yellowish brown (10YR 3/6), dry, 95% fine to medium sand, 10% non-plastic fines, trace fine gravel	
2		6				
3		5			moist	
4		4				
5		2			wet	
6		2				
7		6			WOOD: black (N 2/), wet, 90% wood debris, 10% fine sand, very soft sawdust, moderate hydrogen sulfide-like odor	
8		3				
9		1			bark debris, fresh wood debris, strong Hydrogen Sulfide-like odor	
10		50/6"				
11		8			SILTY SAND (SM): gray (10YR 5/1), wet, 60% fine sand, 20% non-plastic fines, 20% crushed shells	
12		4				
13		3			LEAN CLAY (CL): gray (N 6/), wet, 95% fines, 5% fine sand	
14		1			Bottom of boring at 13.5 feet.	
15		2				
16		3				

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Well No. GMX-MW-09	
BORING LOCATION: N. 549761.1; E. 549761.1		GROUND SURFACE ELEVATION AND DATUM: 8.9 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/10/09	DATE FINISHED: 8/10/09
DRILLING METHOD: Hollow-stem auger		TOTAL DEPTH (ft.): 15.0	SCREEN INTERVAL (ft.):
DRILLING EQUIPMENT: CME 85		DEPTH TO WATER: 6.0	COMPL. CASING: 2" Sch. 40 PVC
SAMPLING METHOD: Split-spoon drive sampler [18" x 1 3/8"]		LOGGED BY: N. Bacher	
HAMMER WEIGHT: 300 lb.	DROP: 30"	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ Foot			
Surface Elevation: 11.23 feet TOC						
0					SILTY SAND (SM): dark brown (10YR 3/3), dry, 85% fine to coarse sand, 15% non-plastic fines, rootlets	
1			3			
2			6		WOOD: dark brown, 90% wood debris, 10% silty sand, small wood chips, roots, bark pieces	
3			3			
4			3			
4			6		moist, wood chunks (>2.0"), moderate hydrogen sulfide-like odor	
5			9		soft, orange-brown, saw dust, wood chunks	
5			33			
6			4		wet	
6			3			
6			4			
7			4			
7			3			
8			2			
8			2			
9			3			
9			2			
9			2			
10			2			
10			2			
11			2			
11			2			
12			1		SILTY SAND (SM): gray (N 5/), wet, 65% medium sand, 20% non-plastic fines, 15% crushed shells, trace wood fibers	
12			1			
12			1			
13			1			
13			2			
14			3		LEAN CLAY (CL): gray (N 5/), wet, 100% fines, very stiff, low plasticity	
14			3			
15					Bottom of boring at 15.0 feet.	

OAKWELLV (REV. 9/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S1	
BORING LOCATION:		ELEVATION AND DATUM: 9.7 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 5.75 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
0				0	Surface Elevation:	
1	GMX-S1-0-1-0708				SILTY SAND (SM): very dark gray (5YR 3/1), moist, 80% fine to coarse sand, 15% low plasticity fines, 5% fine gravel, scattered organics	
2				0	↓ dark reddish brown (5YR 3/2)	
3	GMX-S1-2-4-0708				SILT (ML): dark red (10R 3/6), moist, 100% fines, low plasticity	90% wood waste
4						
5	GMX-S1-4-6-0708					
6					↑ wet	
7					POORLY GRADED SAND with SILT (SP-SM): black (N 2.5/), wet, 80% fine to coarse sand, 10% low-plasticity fines, 10% fine gravel	
8						
9						
10					Bottom of boring at 10.0 feet.	
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S2	
BORING LOCATION:		ELEVATION AND DATUM: 9.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	GMX-S2-0-1-0708				POORLY GRADED SAND with SILT (SP-SM): dark gray (10YR 4/1), moist, 85% fine to coarse sand, 10% non-plastic fines, 5% fine gravel	
2	GMX-S2-2-4-0708				POORLY GRADED SAND (SP): black (10YR 2/1), wet, 90% fine to coarse sand, 10% fine gravel	
3					↓ dark yellowish brown (10YR 4/4), small red balls (resin?)	
4	GMX-S2-4-6-0708				SILTY SAND (SM): black (10YR 2/1), wet, 80% fine to coarse sand, 20% low plasticity fines	
5						
6						
7						
8					Bottom of boring at 8.0 feet.	
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S3	
BORING LOCATION:		ELEVATION AND DATUM: 9.8 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-3-0-1-0708				POORLY GRADED SAND with SILT (SP-SM): dark gray (10YR 4/1), moist, 90% fine to medium sand, 10% non-plastic fines	
2	S-3-2-4-0708				SILTY SAND (SM): black (10YR 2/1), moist, 75% fine to coarse sand, 15% low plasticity fines, 10% fine gravel, dark maroon mottling	
4					↓ wet	
6	S-3-4-6-0708					
7					↓ scattered organics	
8					Bottom of boring at 8.0 feet.	
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S4	
BORING LOCATION:		ELEVATION AND DATUM: 7.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-4-0-1-0708				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): gray (10YR 5/1), moist, 70% fine to coarse sand, 20% fine gravel, 10% non-plastic fines	
2	S-4-2-4-0708				POORLY GRADED SAND with GRAVEL (SP): black (10YR 2/1), moist, 80% fine to coarse sand, 15% fine gravel, 5% fines	
3					dark red shiny wood fragments wet	
4	S-4-4-6-0708				SANDY SILT (ML): greenish gray (N 5/), wet, 70% low plasticity fines, 30% fine to medium sand	70% wood chips
5						
6					solid wood	
7						40% wood
8					Bottom of boring at 8.0 feet.	
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S5	
BORING LOCATION:		ELEVATION AND DATUM: 8.0 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-5-2-4-0708				SILTY SAND with GRAVEL (SM): dark gray (10YR 4/1), moist, 65% fine to coarse sand, 20% fine gravel, 15% non-plastic fines	
2					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): very dark gray (10YR 3/1), moist, 75% fine to coarse sand, 15% fine gravel, 10% non-plastic fines	
4					↓ black (10YR 2/1), wet	70% wood fragments
5	S-5-4-6-0708				SILT (MH): gray (N 5/), moist, 95% fines, 5% fine sand, medium plasticity	
8					Bottom of boring at 8.0 feet.	
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S9	
BORING LOCATION:		ELEVATION AND DATUM: 6.3 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 12.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 1.5 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-9-0-1-0708				POORLY GRADED SAND with SILT (SP-SM): very dark brown (7.5YR 2.5/2), moist, 85% fine to coarse sand, 10% non-plastic fines, 5% fine gravel, scattered organics brick fragment	
2	S-9-2-4-0708				SILTY SAND (SM): black (10YR 2/1), wet, 75% fine to coarse sand, 15% non-plastic fines, 10% fine gravel, wood pieces, scattered organics	
3						
4						
5	S-9-4-6-0708				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): black (10YR 2/1), wet, 65% fine to coarse sand, 10% non-plastic fines, 10% fine gravel, 5% coarse gravel, odor and metallic sheen observed	
6					brick pieces and wood fragment	
7						
8						
9						Grab water sample collected using stainless steel temporary well screen from 8-12 feet bgs.
10						
11						
12					Bottom of boring at 12.0 feet.	
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S10	
BORING LOCATION:		ELEVATION AND DATUM: 5.6 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 20.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
0				0	Surface Elevation:	
1	S-10-0-1-0708				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): black (10YR 2/1), moist, 75% fine to coarse sand, 15% fine gravel, 10% non-plastic fines, scattered brick fragments	
2	S-10-2-4-0708			0	SILTY SAND with GRAVEL (SM): black (10YR 2/1), wet, 60% fine to coarse sand, 25% low plasticity fines, 15% fine gravel, wood fragments	
4	S-10-4-6-0708			57	SILT (ML): very dark gray (10YR 3/1), wet, 60% fines, 40% fine sand, low plasticity	75% wood debris
6				135		
8					No logging below 8 feet. Boring pushed to refusal at 20 feet.	
10						
12						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S11	
BORING LOCATION:		ELEVATION AND DATUM: 5.3 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 3.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe Prototype (Bobcat mounted)		DEPTH TO WATER (ft.)	FIRST NA
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
0				0	Surface Elevation:	
0.5	S-11-0-1-0708			0	SILTY SAND (SM): very dusky red (2.5YR 2.5/2), moist, 80% fine to coarse sand, 20% low plasticity fines,	50% wood debris
1.0				0	solid wood 30% fines	
2.0	S-11-2-4-0708			0	odor	65% wood debris
3.0					Bottom of boring, solid wood obstruction. Redrill 3.0' West, same result.	
4.0						
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S12	
BORING LOCATION:		ELEVATION AND DATUM: 5.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.5 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-12-0-1-0708				POORLY GRADED SAND (SP): brown (10YR 4/3), moist, 95% fine to medium sand, 5% fines, burnt wood debris	
2	S-12-2-4-0708				SILT (ML): gray (10YR 5/1), moist, 95% fines, 5% fine sand	
3						
4	S-12-4-6-0708				↓ wet ↓ silt with wood pieces	90% wood debris
5					↓ solid wood cores	
6						
7						
8					Bottom of boring at 8.0 feet.	
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S13	
BORING LOCATION:		ELEVATION AND DATUM: 5.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.75 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ 6 inches				
1	S-13-0-1-0708				SILTY SAND (SM): very dark brown (10YR 2/2), moist, 85% fine to coarse sand, 15% low plasticity fines	
2	S-13-2-4-0708				↓ yellowish red (5YR 5/6)	80% wood debris
3						
4					↓ wet	
5	S-13-4-6-0708				SILT with SAND (ML): yellowish red (5YR 5/6), wet, 70% fines, 30% fine to coarse sand	solid wood cores
6						
7						
8					Bottom of boring at 8.0 feet.	
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S14	
BORING LOCATION:		ELEVATION AND DATUM: 5.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 30.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 2.25 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ 6 inches				
0				0	Surface Elevation:	
0-1	S-14-0-1-0708				SILTY SAND (SM): very dark gray (10YR 3/1), moist, 80% fine to coarse sand, 20% low plasticity fines	
1-2					□ solid wood piece	
2-3	S-14-2-4-0708			0	▼ black (10YR 2/1), wet	
3-4						
4-5						
5-6	S-14-4-6-0708			0	▼ brown (10YR 4/3)	
6-7				1		100% wood pieces
7-8						
8-30	No logging below 8 feet. Boring pushed to refusal at 30 feet.					

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S15	
BORING LOCATION:		ELEVATION AND DATUM: 6.7 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ 6 inches				
0	S-15-0-1-0708			0	Surface Elevation:	
1	S-15-0-1-0708			0	POORLY GRADED SAND (SP): dark yellowish brown (10YR 3/4), moist, 90% fine to coarse sand, 5% non-plastic fines, 5% fine gravel SILTY SAND (SM): black (10YR 2/1), moist, 85% fine to coarse sand, 15% non-plastic fines	50% shells 30% wood
2	S-15-2-4-0708			0	SILT with SAND (ML): dark yellowish brown (10YR 4/6), moist, 70% fines, 30% fine to medium sand	
3	S-15-2-4-0708				↓ wet	
4	S-15-4-6-0708			2	SILTY SAND (SM): black (10YR 2/1), wet, 85% fine to coarse sand, 15% non-plastic fines	90% wood
5	S-15-4-6-0708			29		
6						
7						
8					Bottom of boring at 8.0 feet.	
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10						
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12						
13						
14						
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S16	
BORING LOCATION:		ELEVATION AND DATUM: 8.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.1 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
0					Surface Elevation:	
0	S-16-0-1-0708	█		0	POORLY GRADED SAND with GRAVEL (SP): light gray (10YR 7/1), moist, 80% fine to coarse sand, 15% fine angular gravel, 5% non-plastic fines, brick fragments	
1	S-16-0-1-0708	█			black (10YR 2/1)	
2	S-16-2-4-0708	█		0		
3						
4				1		
4	S-16-4-6-0708	█		2.5	POORLY GRADED SAND with SILT and GRAVEL (SP-SM): black (10YR 2/1), wet, 75% fine to coarse sand, 15% fine gravel, 10% non-plastic fines	
5						
6				9.2	SILTY SAND with GRAVEL (SM): black (10YR 2/1), wet, 65% fine to coarse sand, 25% low plasticity fines, 10% fine gravel	
6					solid wood chunks (light color)	
7						
8					Bottom of boring at 8.0 feet.	
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S17	
BORING LOCATION:		ELEVATION AND DATUM: 8.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 2.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-17-0-1-0708				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): very dark grayish brown (10YR 3/2), moist, 70% fine and coarse sand, 20% fine gravel, 10% non-plastic fines	
2	S-17-2-4-0708				POORLY GRADED GRAVEL with SILT and SAND (GP-GM): light gray (10YR 7/1), moist, 50% fine and coarse gravel, 40% fine to coarse sand, 10% non-plastic fines, subrounded gravel ↓ wet	
3	S-17-2-4-0708					
4	S-17-4-6-0708				↓ sandier, less gravel	
5	S-17-4-6-0708				SILTY SAND (SM): dark yellowish brown (10YR 3/4), wet, 80% fine to coarse sand, 15% non-plastic fines, 5% fine gravel, odor	
6	S-17-4-6-0708				↓ solid wood debris	
7						
8						
8					Bottom of boring at 8.0 feet.	
9						
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12						
13						
14						
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S18	
BORING LOCATION:		ELEVATION AND DATUM: 11.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/14/08	DATE FINISHED: 7/14/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 35.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 5.75 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ 6 inches		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
1	S-18-0-1-0708				SILTY SAND (SM): very dark gray (10YR 3/1), moist, 70% fine to coarse sand, 20% low plasticity fines, 10% fine gravel, brick fragments	
2					SILT with SAND (ML): grayish brown (10YR 5/2), moist, 90% fines, 10% fine sand, trace gravel, low plasticity, orange mottling	
3	S-18-2-4-0708					
4					POORLY GRADED SAND (SP): very dark brown (10YR 2/2), moist, 95% fine to coarse sand, 5% non-plastic fines	
5	S-18-4-6-0708				angular gravel	50% wood debris
6					greenish black (10Y 2.5/1), wet	
7						
8					No logging below 8 feet. Boring pushed to refusal at 35 feet.	
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S19	
BORING LOCATION:		ELEVATION AND DATUM: 8.7 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/14/08	DATE FINISHED: 7/14/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 5.5 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-19-0-1-0708				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): grayish brown (10YR 5/2), moist, 70% fine to coarse sand, 20% fine gravel, 10% low plasticity fines	
2	S-19-2-4-0708				POORLY GRADED SAND with GRAVEL (SP): dark bluish gray (10B 4/1), moist, 60% fine to coarse sand, 40% fine gravel	
3						
4					(SM), very dark gray (10YR 3/1)	
5	S-19-4-6-0708				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): light gray (10Y 7/1), moist, 50% fine to coarse sand, 40% fine gravel, 10% non-plastic fines	20% wood debris
6					light greenish gray (5G 7/1) POORLY GRADED SAND (SP): very dark gray (N 3/), 95% fine to medium sand, 5% non-plastic fines, slight odor wet	
7					wood debris	
8					wood debris	
					Bottom of boring at 8.0 feet.	
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S20	
BORING LOCATION:		ELEVATION AND DATUM: 8.1 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.5 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-20-0-1-0708				POORLY GRADED SAND with SILT (SP-SM): black (10YR 2/1), moist, 85% fine to coarse sand, 10% low-plasticity fines, 5% fine gravel	
2	S-20-2-4-0708				trace wood debris	
4	S-20-4-6-0708				very dark brown (10YR 2/2) wet, no gravel	70% wood chips
6						100% wood, cored
8					Bottom of boring at 8.0 feet.	
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S21	
BORING LOCATION:		ELEVATION AND DATUM: 7.9 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/14/08	DATE FINISHED: 7/14/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.): NA	FIRST NA
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-21-0-1-0708				POORLY GRADED SAND with SILT (SP-SM): dark yellowish brown (10YR 3/4), moist, 90% fine to coarse sand, 10% non-plastic fines, brick fragments	
2	S-21-2-4-0708				SILTY SAND (SM): very dark brown (7.5YR 2.5/2), moist, 60% fine sand, 40% low plasticity fines	95% wood chips
3						
4						
5	S-21-4-6-0708					
6					low plasticity silt	
7					red brown sawdust	
8					solid wood core	
8					Bottom of boring at 8.0 feet.	
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S22	
BORING LOCATION:		ELEVATION AND DATUM: 8.8 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/14/08	DATE FINISHED: 7/14/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST NA
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-22-0-1-0708				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): grayish brown (10YR 5/2), moist, 70% fine to coarse sand, 20% fine gravel, 10% non-plastic fines angular gravel	
2	S-22-2-4-0708				brown (10YR 4/3), less fines	
5	S-22-4-6-0708				POORLY GRADED SAND (SP): dark yellowish brown (10YR 3/6), moist, 95% fine to medium sand, 5% fines, orange mottling brick fragments light gray, coarse gravel red brown wood debris	
7					SILT (ML): dark reddish brown (5YR 3/4), moist, 100% fines, low plasticity, crumbly	
8					Bottom of boring at 8.0 feet.	
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S23	
BORING LOCATION:		ELEVATION AND DATUM: 8.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/14/08	DATE FINISHED: 7/14/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 5.5 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	S-23-0-1-0708				POORLY GRADED SAND with GRAVEL (SP): very dark brown (10YR 2/2), moist, 75% fine to coarse sand, 20% fine gravel, 5% fines	
2	S-23-2-4-0708				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/4), moist, 70% fine to coarse sand, 20% fine gravel, 10% non-plastic fines	
3	S-23-2-4-0708					
4	S-23-4-6-0708					
5	S-23-4-6-0708					
6					<p>wet black wood waste red brown</p>	
7						95% wood debris
8					Bottom of boring at 8.0 feet.	
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S24	
BORING LOCATION:		ELEVATION AND DATUM: 7.7 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 20.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST NM
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
0				0	POORLY GRADED SAND WITH SILT (SP-SM)	
1				0	SILTY SAND (SM): very dark brown (10YR 2/2), moist, 75% fine to coarse sand, 20% fines, 5% fine gravel, sawdust wood waste	
2				0	wood waste	Black Sheen. 30% Wood Waste with Sawdust.
4				.2	red (2.5YR 4/6)	Odor. No Sheen
5				24.7		
6				25.7	solid wood	No Sheen.
8					No logging below 8 feet. Boring pushed to refusal at 20 feet.	
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S25	
BORING LOCATION:		ELEVATION AND DATUM: 6.6 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	GMX-S25-0-1				SILTY SAND (SM): very dark brown (10YR 2/2), moist, 80% fine ot coarse sand, 20% non-plastic fines	
2	GMX-S25-2-4				SILTY SAND with GRAVEL (SM): dark brown (10YR 3/3), moist, 65% fine to medium sand, 20% fine gravel, 15% non-plastic fines grass, small diameter pieces of wood, and brick fragments	
3						
4				1.0		
5	GMX-S25-4-6			132	WOOD, sawdust and wood chips	100% wood chips
6						
7				367	solid wood wood chips	
8					Bottom of boring at 8.0 feet.	
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10						
11						
12						
13						
14						
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PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S26	
BORING LOCATION:		ELEVATION AND DATUM: 7.1 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
0				0	Surface Elevation:	
0.5	GMX-S26-0-1			0	POORLY GRADED SAND (SP): very dark brown (10YR 2/2), moist, 95% fine to coarse sand, 5% non-plastic fines, wood debris	
1.0				0	solid wood	
1.5	GMX-S26-2			0	SANDY SILT (ML): gray (10YR 4/1), moist, 80% fines, 20% fine to medium sand, low plasticity	
2.0				0	POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark gray (N 4/), most to wet, 70% fine to coarse sand, 20% gravel, 10% non-plastic fines	
4.0	GMX-S26-4-6			0		
5.0				0	rock	
6.0				0	SILT (ML): very dark gray (N 3/), wet, 95% fines, 5% fine sand, low plasticity, wood chips	
8.0					Bottom of boring at 8.0 feet.	




PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S27	
BORING LOCATION:		ELEVATION AND DATUM: 11.6 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/14/08	DATE FINISHED: 7/14/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.5 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	GMX-S27-0-1				POORLY GRADED SAND with SILT (SP-SM): brown (10YR 4/3), moist, 85% fine to coarse sand, 10% non-plastic fines, 5% gravel	
2					SILTY SAND (SM): dark brown (10YR 3/3), moist, 75% fine to coarse sand, 10% gravel, 15% non-plastic fines	
3	GMX-S27-2-4				<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> fine angular gravel moist to wet, 80% fine to coarse sand, 20% non-plastic fines very dark brown (10YR 2/2) </div>	
4						
5	GMX-S27-4-6				<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;"> fine angular gravel </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;"> POORLY GRADED SAND (SP) </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;"> wood debris </div>	
6					SILTY SAND (SM): dark brown (10YR 3/3), wet, 65% fine to medium sand, 30% fine gravel, 5% non-plastic fines	
7					POORLY GRADED SAND with GRAVEL (SP): light gray (10YR 7/1), wet, 65% fine to coarse sand, 30% fine gravel, 5% non-plastic fines	
8					<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> POORLY GRADED SAND (SP), dark greenish gray (10BG 4/1) </div> Bottom of boring at 8.0 feet.	
9						
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12						
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15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S28	
BORING LOCATION:		ELEVATION AND DATUM: 7.1 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/14/08	DATE FINISHED: 7/14/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 5 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
1	GMX-S28-0-1				POORLY GRADED SAND WITH SILT (SP-SM) WOOD, sawdust-like	
2	GMX-S28-2-4				wood fragments	
3						100% Wood
4						
5	GMX-S28-4-6				95% wood, 5% non-plastic fines, odor	
6						
7					reddish colored wood fragments	
8					Bottom of boring at 8.0 feet.	
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11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S29	
BORING LOCATION:		ELEVATION AND DATUM: 7.8 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/14/08	DATE FINISHED: 7/14/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.5 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	GMX-S29-0-1				POORLY GRADED SAND with SILT (SP-SM): very dark grayish brown (10YR 3/2), moist, 90% fine to coarse sand, 10% non-plastic fines	
2	GMX-S29-2-4				WOOD black (10YR 2/1), 90% wood, 10% non-plastic fines	
3	GMX-S29-2-4					
4	GMX-S29-4-6					
5	GMX-S29-4-6				<div style="margin-left: 20px;">  wet  80% wood, 20% non-plastic fines </div>	
6	GMX-S29-4-6					
7	GMX-S29-4-6				<div style="margin-left: 20px;">  100% wood </div>	
8	GMX-S29-4-6				No logging below 8 feet. Boring pushed to refusal at 16 feet.	
9	GMX-S29-4-6					
10	GMX-S29-4-6					
11	GMX-S29-4-6					
12	GMX-S29-4-6					
13	GMX-S29-4-6					
14	GMX-S29-4-6					
15	GMX-S29-4-6					

OAKBOREV (REV. 8/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S30	
BORING LOCATION:		ELEVATION AND DATUM: 7.1 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/15/08	DATE FINISHED: 7/15/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
0				0	POORLY GRADED SAND with SILT and GRAVEL (SP-SM): very dark gray (10YR 3/1), moist, 75% fine to coarse sand, 15% fine gravel, 10% non-plastic fines	
1					SILT (ML)	
2				0	SILTY SAND (SM): very dark gray (10YR 3/1), moist to wet, 85% fine to coarse sand, 15% non-plastic fines	
4				0	solid wood with black coloring, odor wet	
6				3.4	solid wood, odor	
7.3				75.3		
8	No logging below 8 feet. Boring pushed to refusal at 16 feet.					
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S31	
BORING LOCATION:		ELEVATION AND DATUM: 10.1 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
1					POORLY GRADED SAND with GRAVEL (SP): black (10YR 2/1), dry, 75% medium to coarse sand, 20% fine to coarse gravel, 5% non-plastic fines	
					↓ dark brown (10YR 3/3), moist	
					↓ white (10YR 8/1)	
2					↓ dark yellowish brown (10YR 4/4), wood fragments	
3					SANDY SILT (ML): brown (10YR 4/3), moist to wet, 85% fines, 15% fine sand, low plasticity	
4					↓ wet	
5					↓ wood, rotten	
6						
7					SILTY SAND with GRAVEL (SM): dark gray (N 4/), wet, 65% fine to coarse sand, 25% fine to coarse gravel, 15% non-plastic fines	
8					Bottom of boring at 8.0 feet.	
9						
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11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S32	
BORING LOCATION:		ELEVATION AND DATUM: 12.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 5.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 2.0 ft
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1					POORLY GRADED SAND (SP): very dark gray (10YR 3/1), moist, 80% fine to coarse sand, 15% fine to coarse gravel, 5% non-plastic fines	
2					SANDY SILT (ML): black (10YR 2/1), moist to wet, 55% fines, 30% fine to coarse sand, 15% fine gravel, low plasticity	
3						
4					SILT with SAND (ML): gray (10YR 5/1), wet, 85% fines, 15% fine sand, low plasticity	
5					Bottom of boring at 5.0 feet due to refusal.	
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S33	
BORING LOCATION:		ELEVATION AND DATUM: 12.2 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST NM
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
1					POORLY GRADED SAND with SILT and GRAVEL (SP): black (10YR 2/1), 75% fine to medium sand, 15% fine gravel, 10% non-plastic fines	
2					SILTY SAND (SM): very dark brown (10YR 2/2), 85% medium sand, 15% non-plastic fines <input type="checkbox"/> wood, very dark greenish gray (5GY 3/1)	
3					SANDY SILT with GRAVEL (ML): black (10YR 2/1), 55% fines, 25% fine to coarse sand, 15% fine gravel, low plasticity	
4						
5						
6					SILT (ML): gray (10YR 5/1), 100% fines, low plasticity, stiff	
7						
8					Bottom of boring at 8.0 feet.	
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S34	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/16/09	DATE FINISHED: 4/16/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 6.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	GMX-S34-2-4	[Solid black bar]	[X]		Surface Elevation:	first effort to collect sample returned poor recovery, redrive sampler one foot to the west
2					SANDY SILT (ML): dark yellowish brown (10YR 4/4), moist, 55% fines, 40% fine to coarse sand, 5% fine gravel, low plasticity	
3	GMX-S34-4-6	[Solid black bar]	[X]		↓ wet	
4					SANDY SILT with GRAVEL (ML): dark yellowish brown (10YR 4/4), wet, 45% fines, 35% fine to coarse sand, 20% fine gravel, low plasticity	
5					POORLY GRADED GRAVEL (GP): light gray (5GY 4/1), wet, 85% fine angular gravel, 10% fine to coarse sand, 5% non-plastic fines	
6	Bottom of boring at 6.0 feet.					
7						
8						
9						
10						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S35	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST NA
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
1					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): reddish black (2.5YR 2.5/1), moist, 60% fine to coarse sand, 30% fine gravel, 10% low plasticity fines	
2					SILTY SAND (SM): dark brown (10YR 3/3), moist, 55% fine to coarse sand, 40% low plasticity fines, 5% fine gravel, dense	
3					WOOD: dark yellowish brown (10YR 3/4), moist, 90% wood debris, 10% fine to coarse sand	
4						
5					POORLY GRADED GRAVEL with SAND (GP): dark grayish brown (10YR 4/2), moist, 60% fine and coarse gravel, 35% medium to coarse sand, 5% non-plastic fines, dense	
6					POORLY GRADED SAND (SP): very dark greenish gray (5GY 3/1), moist, 95% fine to medium sand, 5% non-plastic fines, dense, iron oxide mottling at upper contact	
7						
8					Bottom of boring at 8.0 feet.	
9						
10						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S36	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 6.3
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528



DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
0					Surface Elevation:	
1					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): very dark gray (10YR 3/1), moist, 70% fine to coarse sand, 20% fine gravel, 10% low plasticity fines, dense	
2						
3					<input type="checkbox"/> SILT with SAND <input type="checkbox"/> brick fragment	
4					POORLY GRADED SAND with GRAVEL (SP): black (10YR 2/1), moist, 55% fine to coarse sand, 40% fine gravel, 5% non-plastic fines, dense	
5						
6					<input type="checkbox"/> wet, wood chips	
7					POORLY GRADED SAND (SP): greenish black (10Y 2.5/1), wet, 95% fine sand, 5% non-plastic fines	
8					Bottom of boring at 8.0 feet.	
9						
10						

OAKBORE (REV. 8/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S37	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 5.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
1					SILTY SAND with GRAVEL (SM): very dark brown (10YR 2/2), moist, 70% fine to coarse sand, 15% fine gravel, 15% non-plastic fines POORLY GRADED SAND (SP): dark grayish brown (10YR 3/2), moist, 95% fine to medium sand, 5% non-plastic fines, trace gravel, wood fragments	
2	GMX-S37-2-4				SILT (ML): dark gray (10YR 4/1), moist, 95% fines, 5% fine sand, low plasticity, firm	
3						
4					wood chunks, gravel, sand	
5	GMX-S37-4-6				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): black (10YR 2/1), wet, 75% fine to coarse sand, 15% fine gravel, 10% non-plastic fines POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark gray (N 4/), wet, 50% gravel, 40% fine to coarse sand, 10% non-plastic fines	
6						
7	GMX-S37-6-8				WOOD: very dark brown (10YR 2/2), wet, 40% wood chips, 30% low plasticity fines, 30% fine to medium sand, soft	
8					Bottom of boring at 8.0 feet.	H2S-like odor
9						
10						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S38	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.5
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
1					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): very dark brown (10YR 2/2), moist, 70% fine to coarse sand, 20% fine gravel, 10% low plasticity fines	
2						
3					SILT with SAND (ML): dark gray (10YR 4/1), wet, 60% fines, 40% fine to medium sand, very soft	
4					 wet	
5					POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark gray (10YR 4/1), wet, 50% fine gravel, 40% fine to coarse sand, 10% non-plastic fines	
6					POORLY GRADED GRAVEL (GP): dark gray (10YR 4/1), wet, 90% fine gravel, 10% fine sand, fractured angular gravel	
7					 wood chunk POORLY GRADED SAND (SP): black (N 2.5/), wet, 85% fine to coarse sand, 10% fine gravel, 5% non-plastic fines	
8					Bottom of boring at 8.0 feet.	
9						
10						

OAKBORE (REV. 8/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S39	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 6.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ 6 inches		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
1	GMX-S39-2-4				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): very dark gray (10YR 3/1), moist, 75% fine to coarse sand, 15% fine gravel, 10% low plasticity fines	
2					light gray crushed rock	
4	GMX-S39-4-6				crumbly white granular material	
5					WOOD: very dark brown (10YR 2/2), moist, 75% wood debris, 15% fine sand, 10% non-plastic fines	
6	GMX-S39-6-8				wet, black (10YR 2/1)	
8					Bottom of boring at 8.0 feet.	

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S40	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

OAKBOREV (REV. 8/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S41	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
					ROAD BASE: crushed rock and concrete	
1	GMX-S41-2-4				POORLY GRADED SAND (SP): brown (10YR 4/3), moist, 85% fine to medium sand, 10% fine gravel, 5% non-plastic fines, trace rootlets, medium dense	
2						
3						
4					↓ wet	
5	GMX-S41-4-6				WOOD: black (N 2.5/), wet, 100% wood chips	
6	GMX-S41-6-8				POORLY GRADED SAND with SILT (SP-SM): very dark gray (10YR 3/1), wet, 90% fine to coarse sand, 10% low plasticity fines	
7					WOOD: very dark brown (10YR 2/2), wet, 90% wood chunks and sawdust, 10% fine sand	
8					Bottom of boring at 8.0 feet.	
9						
10						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S42	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.5
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1					Surface Elevation:	
2					SILTY SAND with GRAVEL (SM): dark brown (10YR 3/3), moist, 65% fine to coarse sand, 20% low plasticity fines, 15% fine gravel	
3						
4					POORLY GRADED SAND with SILT (SP-SM): black (N 2.5/), wet, 80% fine to medium sand, 10% non-plastic fines, 10% fine gravel	
5					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): 70% fine to medium sand, 20% fine gravel, 10% non-plastic fines, clast of crushed white granular material	
6					WOOD: dark reddish brown 100% wood chips	
7						
8					Bottom of boring at 8.0 feet.	H2S-like odor, solid wood chunk stuck in shoe
9						
10						

OAKBOREV (REV. 8/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S43	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
					ROAD BASE: crushed rock and concrete	
1						
2					SILT (ML): dark gray (2.5Y 4/1), moist, 65% fines, 25% fine to coarse sand, 10% fine gravel, low plasticity POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist, 80% fine to coarse sand, 10% fine gravel, 10% fines, iron-oxide mottling	
3						
4					POORLY GRADED SAND with GRAVEL (SP): black (N 2.5/), moist, 85% fine to coarse sand, 15% fine gravel, trace wood debris	
5						
6						
7					WOOD: dark reddish brown wet, 100% wood debris (sawdust, woodchips, and solid chunks)	H2S-like odor
8					Bottom of boring at 8.0 feet.	
9						
10						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S44	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 6.5
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ 6 inches		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
1						
2	GMX-S44-2-4					
3						
4	GMX-S44 -4-6					
5	GMX-S44 -6-8					
6						
7					WOOD: dark reddish brown wet, 100% wood chunks and sawdust	H2S-like odor
8					Bottom of boring at 8.0 feet.	
9						
10						

OAKBOREV (REV. 8/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S45	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/15/09	DATE FINISHED: 4/15/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.5
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	GMX-S45-2-4	[Solid black bar]	[X]		POORLY GRADED SAND (SP): very dark brown (10YR 2/2), moist, 85% fine to coarse sand, 10% fine gravel, 5% non-plastic fines	
2						
3	GMX-S45-4-6	[Solid black bar]	[X]		Surface Elevation:	
4						
5	GMX-S45-6-8	[Solid black bar]	[X]		↓ wet	
6						
7	GMX-S45-6-8	[Solid black bar]	[X]		↓ 95% fine to coarse sand, 5% non-plastic fines	
8						
9					WOOD: reddish brown (10YR 3/3), wet, 100% wood chips and sawdust, very soft	H2S-like odor
10					Bottom of boring at 8.0 feet.	

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S46	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/16/09	DATE FINISHED: 4/16/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 6.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 3.5
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	GMX-S46-2-4	[Solid black bar]	[Solid black bar]		POORLY GRADED SAND with SILT (SP-SM): brown (10YR 4/6), moist, 80% fine to coarse sand, 10% fine gravel, 10% low plasticity fines	
2					POORLY GRADED SAND (SP): black (N 2.5/), moist, 90% fine to coarse sand, 5% fine gravel, 5% non-plastic fines, iron oxide mottling at upper contact	
3						
4	GMX-S46-4-6	[Solid black bar]	[Solid black bar]		POORLY GRADED SAND with SILT (SP-SM): black (10YR 2/1), wet, 85% fine to coarse sand, 10% low plasticity fines, 5% fine gravel	
5					WOOD: black (10YR 2/1), wet, 90% wood chips, 10% non-plastic fines, wood chips are red in color, with black soil/water surrounding	
6					Bottom of boring at 6.0 feet.	
7						
8						
9						
10						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S47	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 4/16/09	DATE FINISHED: 4/16/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 8.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST 4
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ 6 inches			NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
1	GMX-S47-2-4				POORLY GRADED SAND with SILT and GRAVEL (SP-SM): black (N 2.5/), moist, 70% fine to coarse sand, 20% fine gravel, 10% low plasticity fines, wood debris in shoe	
4	GMX-S47-4-6				WOOD: black (N 2.5/), wet, 90% wood chips, 10% non-plastic fines	
5					↓ red-brown wood chunks	
6	GMX-S47-6-8				↓ black, 80% wood chunks, 20% non-plastic fines	H2S-like odor
7						
8						
9						
10						

OAKBOREV (REV. 8/2007)

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S48	
BORING LOCATION: N. 549908.3; E. 1211701.7		ELEVATION AND DATUM: 7.6 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST 0.5
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ 6 inches			
				Surface Elevation: 7.6 feet	
1	GMX-S48-2-4			SILTY SAND (SM): dark reddish brown (2.5YR 3/3), damp, 80% fine to coarse sand, 20% non-plastic fines, rootlets	
2				WOOD reddish brown (2.5YR 4/3), wet, 100% wood, sawdust, moderate hydrogen sulfide-like odor	
3					
4					
5	GMX-S48-GMX-S48-4-6				
6					
7	GMX-S48-GMX-S48-6-8			wood strips with sawdust	
8					
9					
10				SANDY SILT (ML): gray (N 5/), wet, 100% fines, low plasticity, crushed shells on contact with unit above	
11					
12				LEAN CLAY (CL): gray (N 5/), wet, 100% fines, medium plasticity, stiff	
13					
14					
15				Bottom of boring at 15.0 feet. Borehole abandoned with bentonite chips.	
16					

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S49	
BORING LOCATION: N. 549954.8; E. 1211647.9		ELEVATION AND DATUM: 8.7 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST 1.0
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation: 8.7 feet	
1					SILTY SAND (SM): dark brown (10YR 3/3), moist, 80% fine to coarse sand, 20% non-plastic fines, rootlets	
2					WOOD reddish brown (2.5YR 4/3), moist, 100% wood, wood chips, black staining	
3					cored through log	
4					wood chips, black	
5						
6					sawdust, orange with black weathering	
7						
8						
9						
10					SILT (ML): gray (N 5/), wet, 100% fines, low plasticity, medium stiff, scattered shell fragments	
11					LEAN CLAY (CL): gray (N 5/), moist, 100% fines, low plasticity, stiff	
12						
13						
14						
15					Bottom of boring at 15.0 feet. Borehole abandoned with bentonite chips.	
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S50	
BORING LOCATION: N. 549848.3; E. 1211671.9		ELEVATION AND DATUM: 7.9 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 10.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST 1.0
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation: 7.9 feet	
1					SILTY SAND (SM): dark reddish brown (2.5YR 3/3), moist, 80% fine to coarse sand, 20% non-plastic fines, rootlets	
2	GMX-S50-2-4				WOOD: reddish brown (2.5YR 4/3), wet, 100% wood, sawdust and woodchips, cored pieces of wood from 1.0 to 1.5 feet bgs.	
3						
4						
5	GMX-S50-4-6					
6						
7	GMX-S50-6-8				SILTY SAND (SM): gray (N 5/), wet, 60% fine to medium sand, 20% wood pieces, 20% low plasticity fines	
8					LEAN CLAY (CL): gray (N 5/), moist, 100% fines, low plasticity, stiff	
9						
10					Bottom of boring at 10.0 feet. Borehole abandoned with bentonite chips.	
11						
12						
13						
14						
15						
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S51	
BORING LOCATION: N. 549855.6; E. 1211644.1		ELEVATION AND DATUM: 8.0 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 10.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST 1.5
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation: 8.0 feet	
1					SILTY SAND (SM): brown (10YR 4/3), moist, 80% fine to coarse sand, 20% non-plastic fines, sawdust, wood chips, and broken glass	
2	GMX-S51-2-4				POORLY GRADED SAND with SILT (SP-SM): gray (N 5/), wet, 85% medium to coarse sand, 15% non-plastic fines	
3					15% wood chips	
4						
5	GMX-S51-4-6				5% fine gravel, no wood	
6						
7	GMX-S51-6-8					
8					LEAN CLAY (CL): gray (N 5/), wet, 100% fines, low plasticity, stiff	
9						
10					Bottom of boring at 10.0 feet. Borehole abandoned with bentonite chips.	
11						
12						
13						
14						
15						
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S52	
BORING LOCATION: N. 549950.1; E. 1211586.5		ELEVATION AND DATUM: 9.8 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST 4.0
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation: 9.8 feet	
1					SILTY SAND (SM): brown (10YR 4/3), dry, 80% fine to coarse sand, 20% non-plastic fines	
2					WOOD black (N 2.5/), moist, 100% wood, sawdust and cored wood pieces (0.5-1.0 feet bgs)	
3	GMX-S52- 2-4					
4					wet	
5	GMX-S52- 4-6					
6						
7	GMX-S52- 6-8				brown, with red pieces of wood	
8						
9					SANDY SILT (SM): gray (N 5/), wet, 80% fine to medium sand, 20% low plasticity fines	
10					LEAN CLAY (CL): gray (N 5/), moist, 100% fines, low plasticity, stiff	
11						
12						
13						
14						
15					Bottom of boring at 15.0 feet. Borehole abandoned with bentonite chips.	
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S53	
BORING LOCATION: N. 549928.4; E. 1211538.3		ELEVATION AND DATUM: 15.4 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST 1
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation: 15.4 feet	
1					SILTY SAND (SM): brown (10YR 4/3), dry, 80% fine to coarse sand, 20% non-plastic fines, scattered crushed rock	
2	GMX-S53- 2-4				WOOD reddish black (2.5YR 2.5/1), wet, 100% wood chips	
3						
4					SANDY LEAN CLAY (CL): dark gray (N 4/), wet, 100% fines, low plasticity, medium stiff	
5	GMX-S53- 4-6					
6						
7	GMX-S53- 6-8				50% fine sand	
8						
9						
10						
11					LEAN CLAY (CL): gray (N 5/), moist, 100% fines, low plasticity, stiff	
12						
13						
14						
15					Bottom of boring at 15.0 feet. Borehole abandoned with bentonite chips.	
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S54	
BORING LOCATION: N. 550005.3; E. 1211483.7		ELEVATION AND DATUM: 15.5 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 10.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST NA
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: Na	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation: 15.5 feet	
1					↓ POORLY GRADED SAND with SILT (SP-SM): dark brown (10YR 3/3), dry, 75% fine to coarse sand, 15% non-plastic fines, 10% fine gravel, rootlets ↓ burned material, ash	
2						
3	GMX-S54-2-4				SILT (ML): gray (N 5/), moist, 95% fines, 5% fine sand, low plasticity, medium stiff, yellowish mottling	
4						
5	GMX-S54-4-6				--- shell hash LEAN CLAY (CL): olive gray (2.5Y 4/1), moist, 95% fines, 5% fine sand, black mottling, medium stiff	
6						
7	GMX-S54-6-8					
8					↓ 10% fine gravel	
9						
10					↓ stiff Bottom of boring at 10.0 feet. Borehole abandoned with bentonite chips	
11						
12						
13						
14						
15						
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S55	
BORING LOCATION: N. 550105.8; E. 1211420.3		ELEVATION AND DATUM: 16.5 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST 2.5
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation: 16.5 feet	
1					POORLY GRADED SAND with GRAVEL (SP): gray (10YR 5/1), dry, 85% fine to coarse sand, 15% fine gravel	
2					POORLY GRADED SAND (SP): black (N 2.5/), moist, 70% medium to coarse sand, 30% wood chips	
2.4	GMX-S55-2.4				↓ brown, 100% fine to medium sand	
3					↓ wet	
4					SILT (ML): gray (N 5/), wet, 95% fines, 5% fine gravel, low plasticity, stiff, black mottling	
5	GMX-S55-4.6					
6						
6.8	GMX-S55-6.8				↓ no mottling	
7						
8						
9						
10						
11						
12						
13						
14						
15					Bottom of boring at 15.0 feet. Borehole abandoned with bentonite chips.	
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S56	
BORING LOCATION: N. 550238.3; E. 1211544.9		ELEVATION AND DATUM: 14.8 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 20.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST 10
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES				OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches				
Surface Elevation: 14.8 feet							
1						POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark grayish brown (10YR 4/2), moist, 70% fine to coarse sand, 20% fine gravel, 10% non-plastic fines	
2							
3	GMX-S56-2-4						
4							
5	GMX-S56-4-6						
6							
7	GMX-S56-6-8						
8						<ul style="list-style-type: none"> <input type="checkbox"/> very dark brown sawdust <input type="checkbox"/> poorly graded sand, greenish gray <input type="checkbox"/> coarse sand, white <input checked="" type="checkbox"/> crushed red and yellow brick 	
9							
10						WOOD: black (N 2.5/), wet, 100% wood, woodchips and sawdust	
11							
12							
13							
14							
15						<ul style="list-style-type: none"> <input checked="" type="checkbox"/> dark reddish brown WOOD: cont.	
16							

PROJECT: GBH- Former Custom Plywood
Anacortes, WA

Log of Boring No. GMX-S56 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION <small>NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.</small>	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
17						
18						
19					LEAN CLAY (CL): gray (N 5/), wet, 100% fines, low plasticity, medium stiff, trace shell fragments	
20					Bottom of boring at 20.0 feet. Borehole abandoned with bentonite chips.	
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S57	
BORING LOCATION: N. 550177.8; E. 1211432.6		ELEVATION AND DATUM: 17.1 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST 8.25
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
Surface Elevation: 17.1 feet						
1					SILTY SAND with GRAVEL (SM): grayish brown (10YR 5/2), (fill)	
2						
3	GMX-S57- 2-4					
4						
5	GMX-S57- 4-6					
6						
7	GMX-S57- 6-8					
8					orange-brown mottling scrap metal piece, black, oily texture	
9					POORLY GRADED SAND (SP): grayish brown (10YR 5/2), wet, 95% fine to medium sand, 5% non-plastic fines	
10						
11					WOOD reddish brown (2.5YR 5/3), wet, 100% wood, wood chips, cored pieces, and sawdust, slight hydrogen sulfide-like odor	
12						
13						
14					LEAN CLAY (CL): gray (N 5/), moist, 100% fines, medium plasticity, stiff	
15					Bottom of boring at 15.0 feet. Borehole abandoned with bentonite chips.	
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. GMX-S58	
BORING LOCATION: N. 550185.8; E. 1211304.9		ELEVATION AND DATUM: 23.1 feet MSL NAVD88	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 7/30/09	DATE FINISHED: 7/30/09
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 10.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 7730 DT		DEPTH TO WATER (ft.)	FIRST NA
SAMPLING METHOD: Geoprobe macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation: 23.1 feet	
1					SANDY SILT with GRAVEL (ML): very dark brown (10YR 2/2), moist, 50% low plasticity fines, 30% fine to coarse sand, 20% fine gravel	
2	GMX-S58-2-4					
3						
4					SILT (ML): grayish brown (10YR 5/2), moist, 95% fines, 5% fine sand, low plasticity, stiff, orange mottling	
5	GMX-S58-4-6					
6						
7	GMX-S58-6-8					
8						
9						
10					Bottom of boring at 10.0 feet. Borehole abandoned with bentonite chips.	
11						
12						
13						
14						
15						
16						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S6 (test pit)	
BORING LOCATION:		ELEVATION AND DATUM: 5.4 feet MSL NAVD88	
DRILLING CONTRACTOR: GBH Investments		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Scooping with 3 foot wide Bucket		TOTAL DEPTH (ft.): 6.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: CAT Excavator		DEPTH TO WATER (ft.)	FIRST 2.5 ft
SAMPLING METHOD:		LOGGED BY: Z. Satterwhite	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	GMX-S6-0-1				Surface Elevation:	
2					Wood wood waste, 20% organic silt, 10% fine to coarse sand, rootlets	
3	GMX-S6-2-3				Wood shards up to 1 foot long	
4					wet, light brown woodwaste, H ₂ S like odor	
5	GMX-S6-4-6					
6					Bottom of boring at 6.0 feet.	
7						
8						
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S7 (test pit)	
BORING LOCATION:		ELEVATION AND DATUM: 5.4 feet MSL NAVD88	
DRILLING CONTRACTOR: GBH Investments		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Scooping with 3 foot wide Bucket		TOTAL DEPTH (ft.): 6.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: CAT Excavator		DEPTH TO WATER (ft.)	FIRST 2.5 ft
SAMPLING METHOD:		LOGGED BY: Z. Satterwhite	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
					Surface Elevation:	
1	GMX-S7-0-1				Ash WOOD, heterogeneous dark brown and yellowish red sawdust, 8' x 6" x 2" wooden boards, H ₂ S like odor	
2						
3	GMX-S7-2-4					Oily sheen on water.
4						
5	GMX-S7-4-6					
6					Bottom of test pit at 6.0 feet.	
7						
8						
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Log of Boring No. S8 (test pit)	
BORING LOCATION:		ELEVATION AND DATUM: 7.8 feet MSL NAVD88	
DRILLING CONTRACTOR: GBH Investments		DATE STARTED: 7/16/08	DATE FINISHED: 7/16/08
DRILLING METHOD: Scooping with 3 foot wide Bucket		TOTAL DEPTH (ft.): 6.0	MEASURING POINT: ground surface
DRILLING EQUIPMENT: CAT Excavator		DEPTH TO WATER (ft.)	FIRST NM
SAMPLING METHOD:		LOGGED BY: N. Bacher	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1	GMX-S8-0-1				SILTY SAND (SM): light brown 60% fine sand, 30% non-plastic fines, 10% fine gravel, roots, wood fragments	
2					LAYERED BRICKS (Z): red	
3	GMX-S8-2-4				POORLY GRADED SAND (SP): olive brown 95% medium sand, 5% non-plastic fines	
4						
5	GMX-S8-4-6					
6					WOOD lumber boards, 4' in length	
6.0					Bottom of test pit at 6.0 feet.	
7						
8						
9						
10						
11						
12						
13						
14						
15						

PROJECT: GBH- Former Custom Plywood Anacortes, WA				Test Pit Log No. TP-1			
TEST PIT LOCATION: N. 550162.1; E. 1211891.5				ELEVATION AND DATUM: NA			
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.				DATE STARTED: 7/21/09		DATE FINISHED: 7/21/09	
OPERATOR: Andrew Hinton				TOTAL DEPTH (ft): 4.0		MEASURING POINT: ground surface	
EXCAVATION EQUIPMENT: Cat 303 CR				DEPTH TO WATER:	FIRST 1.0		
EXCAVATION BUCKET DIMENSIONS: 0.5 yd bucket				LOGGED BY: C. Brown			
SAMPLING METHOD: NA				RESPONSIBLE PROFESSIONAL: N. Bacher		REG. NO. L.G. 2528	
DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION		REMARKS	
	Sample No.	Sample		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	Surface Elevation:		NA
1				POORLY GRADED GRAVEL (GP): Coarse gravel, bricks, shell fragments			
2				WOOD: dark reddish brown, sawdust, and burnt timber pieces, scattered red bricks, piece of clay pipe, very slight sheen			
3							
4				Bottom of test pit at 4.0 feet. Backfilled with imported medium sand.			
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
				OAKTESTPIT (REV. 6/03)			
AMEC Geomatrix				Project No. 10654.000		Page 1 of 1	

PROJECT: GBH- Former Custom Plywood Anacortes, WA				Test Pit Log No. TP-2			
TEST PIT LOCATION: N. 550167.2; E. 1211924.3				ELEVATION AND DATUM: NA			
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.				DATE STARTED: 7/21/09		DATE FINISHED: 7/21/09	
OPERATOR: Andrew Hinton				TOTAL DEPTH (ft): 4.5		MEASURING POINT: ground surface	
EXCAVATION EQUIPMENT: Cat 303 CR				DEPTH TO WATER:	FIRST 2.5		
EXCAVATION BUCKET DIMENSIONS: 0.5 yd bucket				LOGGED BY: C. Brown			
SAMPLING METHOD: NA				RESPONSIBLE PROFESSIONAL: N. Bacher		REG. NO. L.G. 2528	
DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION		REMARKS	
	Sample No.	Sample		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	Surface Elevation: NA		
1				WOOD: black, rotten wood scraps, sawdust, trace shell fragments			
2				slight sheen			
3				POORLY GRADED SAND (SP): 60% fine to medium sand, 40% orange and red bricks, blackened and burnt wood pieces			
4				WOOD: fine sawdust			
5				Bottom of test pit at 4.5 feet. Backfilled with imported medium sand.			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
				OAKTESTPIT (REV. 6/03)			
AMEC Geomatrix				Project No. 10654.000		Page 1 of 1	

PROJECT: GBH- Former Custom Plywood Anacortes, WA				Test Pit Log No. TP-3			
TEST PIT LOCATION: N. 550102.5; E. 1211920.6				ELEVATION AND DATUM: NA			
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.				DATE STARTED: 7/21/09		DATE FINISHED: 7/21/09	
OPERATOR: Andrew Hinton				TOTAL DEPTH (ft): 5.0		MEASURING POINT: ground surface	
EXCAVATION EQUIPMENT: Cat 303 CR				DEPTH TO WATER:	FIRST 1.5		
EXCAVATION BUCKET DIMENSIONS: 0.5 yd bucket				LOGGED BY: C. Brown			
SAMPLING METHOD: NA				RESPONSIBLE PROFESSIONAL: N. Bacher		REG. NO. L.G. 2528	
DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION		REMARKS	
	Sample No.	Sample		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	Surface Elevation: NA		
1				FILL: black, 50% bricks, 35% medium sand, 15% wood pieces			
2				WOOD with SAND: dark reddish brown, 70% wood, 20% fine sand, 10% yellow and red brick, large wood pieces, slight hydrogen sulfide-like odor, very slight sheen			
3							
4							
5				Bottom of test pit at 5.0 feet. Test pit backfilled with imported medium sand.			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
				AMEC Geomatrix		OAKTESTPIT (REV. 6/03)	
				Project No. 10654.000		Page 1 of 1	

PROJECT: GBH- Former Custom Plywood Anacortes, WA				Test Pit Log No. TP-4			
TEST PIT LOCATION: N. 550040.0; E. 1211918.7				ELEVATION AND DATUM: NA			
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.				DATE STARTED: 7/21/09		DATE FINISHED: 7/21/09	
OPERATOR: Andrew Hinton				TOTAL DEPTH (ft): 8.0		MEASURING POINT: ground surface	
EXCAVATION EQUIPMENT: Cat 303 CR				DEPTH TO WATER:	FIRST 2.0		
EXCAVATION BUCKET DIMENSIONS: 0.5 yd bucket				LOGGED BY: C. Brown			
SAMPLING METHOD: NA				RESPONSIBLE PROFESSIONAL: N. Bacher		REG. NO. L.G. 2528	
DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION		REMARKS	
	Sample No.	Sample		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	Surface Elevation: NA		
1				WOOD with SAND: dark reddish brown, moist, 60% wood, 40% fine sand, large wood pieces >2.0' in diameter			
2				sidewall seep with slight sheen			
3				(SP): 60% fine sand, 35% wood, 5% yellow brick, sawdust			
4				WOOD: 50% wood, 40% yellow brick, 10% fine sand, trace sawdust			
5				100% wood, sawdust, scattered boards			
6							
7							
8				Bottom of test pit at 8.0 feet. Test pit backfilled with imported medium sand.			
9							
10							
11							
12							
13							
14							
15							
				AMEC Geomatrix		Project No. 10654.000	
						Page 1 of 1	

PROJECT: GBH- Former Custom Plywood Anacortes, WA				Test Pit Log No. TP-5			
TEST PIT LOCATION: N. 549986.7; E. 1211952.7				ELEVATION AND DATUM: NA			
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.				DATE STARTED: 7/21/09		DATE FINISHED: 7/21/09	
OPERATOR: Andrew Hinton				TOTAL DEPTH (ft): 8.3		MEASURING POINT: ground surface	
EXCAVATION EQUIPMENT: Cat 303 CR				DEPTH TO WATER:	FIRST 1.0		
EXCAVATION BUCKET DIMENSIONS: 0.5 yd bucket				LOGGED BY: C. Brown			
SAMPLING METHOD: NA				RESPONSIBLE PROFESSIONAL: N. Bacher		REG. NO. L.G. 2528	
DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION		REMARKS	
	Sample No.	Sample		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	Surface Elevation: NA		
1				BRICKS with WOOD:moist, 70% brick, 30% wood, sawdust ↓ wet			
2				↓ 30% wood chips			
3				WOOD:90% wood, 10% brick, sawdust and wooden timbers			
4				↓ 90% wood, 10% fine sand, slight sheen			
5							
6							
7							
8				LEAN CLAY (CL): wet, 100% fines, low plasticity, medium stiff, whole shells			
9				Bottom of test pit at 8.25 feet. Test pit backfilled with imported medium sand.			
10							
11							
12							
13							
14							
15							
				OAKTESTPIT (REV. 6/03)			
AMEC Geomatrix				Project No. 10654.000		Page 1 of 1	

PROJECT: GBH- Former Custom Plywood Anacortes, WA				Test Pit Log No. TP-6			
TEST PIT LOCATION: N. 549933.1; E. 1211937.2				ELEVATION AND DATUM: NA			
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.				DATE STARTED: 7/21/09		DATE FINISHED: 7/21/09	
OPERATOR: Andrew Hinton				TOTAL DEPTH (ft): 8.5		MEASURING POINT: ground surface	
EXCAVATION EQUIPMENT: Cat 303 CR				DEPTH TO WATER:	FIRST 1.5		
EXCAVATION BUCKET DIMENSIONS: 0.5 yd bucket				LOGGED BY: C. Brown			
SAMPLING METHOD: NA				RESPONSIBLE PROFESSIONAL: N. Bacher		REG. NO. L.G. 2528	
DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION		REMARKS	
	Sample No.	Sample		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	Surface Elevation:		NA
1				FILL:100% Brick			
2				WOOD:90% wood, 10% brick, sawdust and wood chips, moist			
3							
4							
5				70% wood (sawdust), 30% large wooden timbers			
6							
7							
8				LEAN CLAY (CL): gray, moist, 100% fines, low plasticity, large shells (2 cm)			
9				Bottom of test pit at 8.5 feet. Test pit backfilled with imported medium sand.			
10							
11							
12							
13							
14							
15							
				OAKTESTPIT (REV. 6/03)			
AMEC Geomatrix				Project No. 10654.000		Page 1 of 1	

PROJECT: GBH- Former Custom Plywood Anacortes, WA				Test Pit Log No. TP-7			
TEST PIT LOCATION: N. 549755.8; E. 1211966.8				ELEVATION AND DATUM: NA			
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.				DATE STARTED: 7/21/09		DATE FINISHED: 7/21/09	
OPERATOR: Andrew Hinton				TOTAL DEPTH (ft): 8.5		MEASURING POINT: ground surface	
EXCAVATION EQUIPMENT: Cat 303 CR				DEPTH TO WATER:	FIRST 1.5		
EXCAVATION BUCKET DIMENSIONS: 0.5 yd bucket				LOGGED BY: C. Brown			
SAMPLING METHOD: NA				RESPONSIBLE PROFESSIONAL: N. Bacher		REG. NO. L.G. 2528	
DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION		REMARKS	
	Sample No.	Sample		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	Surface Elevation: NA		
1				POORLY GRADED SAND (SP): reddish brown, 50% fine to coarse sand, 50% wood, sawdust and wood chips, black mottling			
2				↓ wet, wooden boards			
3				SILT (ML): light brown, 90% organic silt, 10% wood, wood chips			
4				WOOD with SAND brown, wet, 50% wood, 40% fine sand, 10% fines, wood chips			
5				WOODwet, 100% wood, wood pieces and sawdust			
6				↓ 20% sawdust			
7							
8				↓ 40% sawdust			
9				LEAN CLAY (CL): gray, moist, 70% fines, 30% wood			
10				Bottom of test pit at 8.5 feet. Test pit backfilled with imported medium sand.			
11							
12							
13							
14							
15							

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Test Pit Log No. TP-8	
TEST PIT LOCATION: N. 549852.2; E. 1211963.1		ELEVATION AND DATUM: NA	
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.		DATE STARTED: 7/22/09	DATE FINISHED: 7/22/09
OPERATOR: Andrew Hinton		TOTAL DEPTH (ft): 8.5	MEASURING POINT: ground surface
EXCAVATION EQUIPMENT: Cat 303 CR		DEPTH TO WATER:	FIRST 3.0
EXCAVATION BUCKET DIMENSIONS: 0.5 yd bucket		LOGGED BY: C. Brown	
SAMPLING METHOD: NA		RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
				Surface Elevation: NA	
1				POORLY GRADED SAND (SP): black, 80% fine to coarse sand, 20% debris, shells, burnt looking, rebar, concrete chunks and a creosote piling	
2					
3					
4				WOOD: reddish brown, 100% wood, saw dust, wood chips	
5					
6				▼ plywood pieces (6"x6")	
7					
8					
9				Bottom of test pit at 8.5 feet. Test pit backfilled with imported medium sand.	
10					
11					
12					
13					
14					
15					

PROJECT: GBH- Former Custom Plywood Anacortes, WA		Test Pit Log No. TP-9	
TEST PIT LOCATION: N. 549656.8; E. 1211984.2		ELEVATION AND DATUM: NA	
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.		DATE STARTED: 7/22/09	DATE FINISHED: 7/22/09
OPERATOR: Andrew Hinton		TOTAL DEPTH (ft): 5.0	MEASURING POINT: ground surface
EXCAVATION EQUIPMENT: Cat 303 CR		DEPTH TO WATER: 2.0	FIRST
EXCAVATION BUCKET DIMENSIONS: 0.5 yd bucket		LOGGED BY: C. Brown	
SAMPLING METHOD: NA		RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
				Surface Elevation: NA	
1				WOOD: very dark brown, moist, 100% wood, (70% sawdust and 30% wood chips), log (6" diameter)	
2				↓ brown, wet, 50% sawdust, 50% wood chips	
3					
4				↓ 90% sawdust, 10% wood pieces	
5				LEAN CLAY (CL): gray, wet, 100% fines, low plasticity	
6				Bottom of test pit at 5.0 feet. Test pit backfilled with imported medium sand.	
7					
8					
9					
10					
11					
12					
13					
14					
15					



APPENDIX B

Analytical Lab Sheets, Including Data Validation
(on compact disk)



Memo

To: Kathleen Goodman
 From: Tasya Gray
 Tel:
 Fax:
 Date: August 26, 2008

Project: 10654
 cc: Project File

**Subject: Former Custom Plywood Plant, July 2008 Sampling
 Summary Data Quality Review – SDGs 0807-271 and 0808-014**

This memorandum presents the summary data quality review of 12 primary groundwater samples and two trip blanks collected between July 17 and August 1, 2008. The samples were submitted to OnSite Environmental, Inc. (OnSite), a Washington State Department of Ecology (Ecology) accredited laboratory, located in Redmond, Washington. The one soil sample was submitted to Pace Analytical of Minneapolis, Minnesota specifically for analysis of dioxins.

The samples were selectively analyzed for the following:

- Total Petroleum Hydrocarbons (TPH) as diesel extended by Ecology Method NWTPH-Dx (with silica gel and acid wash cleanup);
- TPH as gasoline by Ecology Method NWTPH-Gx;
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021B;
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D-SIM;
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270D-SIM;
- Volatile Organic Compounds (VOCs) by EPA Method 8260B;
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082;
- Total Priority Pollutant Metals (Ag, As, Ba, Cd, Cr, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn) by EPA Methods 6010B/6020/7470A/7471A/200.8 (note: barium was replaced for beryllium);
- Total Dissolved Solids (TDS) by EPA Method 160.1
- Salinity

The samples and the analyses conducted on the samples are listed in the table below (samples that were submitted to the laboratory but not analyzed by the laboratory are denoted with "--").

Sample ID	Laboratory Sample ID	Requested Analyses
MW-05-0808	08-014-01	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total and dissolved metals, TDS, Salinity
SP-1-0808	08-014-02	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total metals, TDS, Salinity



Sample ID	Laboratory Sample ID	Requested Analyses
SP-2-0808	08-014-03	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total metals, TDS, Salinity
SP-3-0808	08-014-04	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total metals, TDS, Salinity
SP-4-0808	08-014-05	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total metals, TDS, Salinity
MW-04-0808	08-014-06	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total and dissolved metals, TDS, Salinity
AN-MW-02-0708	08-014-07	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total and dissolved metals, TDS, Salinity
AN-MW-01-0708	08-014-08	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total and dissolved metals, TDS, Salinity
MW-06-0708	08-014-09	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total and dissolved metals, TDS, Salinity
Trip Blank	08-014-10	TPH-G, VOCs
MW-01-0708	07-271-01	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total and dissolved metals, TDS, Salinity
MW-02-0708	07-271-02	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total and dissolved metals, TDS, Salinity
MW-03-0708	07-271-03	TPH-G, TPH-Dx, SVOCs, PCBs, VOCs, total and dissolved metals, TDS, Salinity
Trip Blank		TPH-G, VOCs

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the *Draft Final Quality Assurance Project Plan (QAPP)*, Attachment A2 of Appendix A of the *Draft Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP)* for the Former Custom Plywood Mill, Anacortes, Washington, June 2008. The most current control limits provided by the laboratory were used to evaluate the quality control data.

Hold times, method/trip blanks, surrogate recoveries, laboratory control samples, matrix spike/matrix spike duplicates, field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA documents *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, October 1999 and *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review*, October 2004.

Memo
August 26, 2008
Page 3 of 5

Samples were received by the laboratories between July 25 and August 2, 2008. There were no discrepancies noted at the time of sample intake. It should be noted that proper sample nomenclature was not used for this event (i.e. samples did not have the date incorporated); field staff will be made aware of this deficiency to improve in the future.

ORGANIC ANALYSES

Samples were analyzed for the constituents identified in the introduction to this memorandum. Laboratory data were evaluated for the following parameters.

Preservation and Holding Times – Acceptable

Blanks – Acceptable except as noted:

An equipment rinsate blank was not included in the any of these SDGs. The project required frequency is one per sampling event.

The trip blank associated with SDG 0807-271 was not analyzed by the laboratory.

Surrogates/Internal Standards – Acceptable

Laboratory Control Sample/Laboratory Control Sample Duplicates (LCS/LCSD) – Acceptable except as noted:

LCS/LCSDs are not available for TPH-G or TPH-D results. These results are evaluated based on other QC measures including duplicates and MS/MSDs.

VOCs by EPA Method 8260B: A LCS/LCSD was not provided in SDG 0807-271; results are evaluated based on other QC measures including duplicates and MS/MSDs.

Matrix Spike/Matrix Spike Duplicates (MS/MSD) – Acceptable except as noted:

MS/MSDs are not available for TPH-G, TPH-D, SVOCs, or PCBs results. These results are evaluated based on other QC measures including duplicates and LCS/LCSDs. The project required frequency of one per sampling event or one per 20 samples was not met for these analyte groups.

VOCs by EPA Method 8260B: A MS/MSD was not provided in SDG 0808-014; results are evaluated based on other QC measures including duplicates and LCS/LCSDs.

Duplicates – Acceptable except as noted:

No groundwater field duplicates were submitted during this sampling event. The project frequency requirement of one field duplicate for every groundwater sampling event was not achieved.

A lab duplicate was not available for VOCs, SVOCs or PCBs; results were evaluated based on the LCS/LCSD and or MS/MSD pairs.

Reporting Limits – Acceptable except as noted:

TPH-G by WA NWTPH-Gx: The 100 µg/L reporting limit for TPH-gas specified in the QAPP was not achieved for sample MW05-0808 in SDG 808-014 with a reporting limit of 400 µg/L.

TPH-Dx by Ecology Method NWTPH-Dx: The 0.25 mg/L reporting limit for TPH-diesel specified in the QAPP was not achieved for samples in SDG 0808-014 with reporting limits ranging from 0.23 to 0.27 mg/L for non-detects.

PCBs by EPA 8082: The 0.03 µg/L reporting limit for PCBs specified in the QAPP was not achieved for all samples in SDG 0807-271 with reporting limits ranging from 0.049 to 0.052 µg/L for non-detects and 0.048 to 0.051 µg/L for non-detects in SDG 0808-014.

INORGANIC ANALYSES

Samples were analyzed for the constituents identified in the introduction to this memorandum. Laboratory data were evaluated for the following parameters.

Preservation and Holding Times – Acceptable

Blanks – Acceptable, except as noted.

An equipment rinsate blank was not included in the any of these SDGs. The project required frequency is one per sampling event.

MS/MSD – Acceptable

Laboratory Control Samples – Acceptable

LCS/LCSDs are not available for metals results. These results are evaluated based on other QC measures including duplicates and MS/MSDs.

Duplicates – Acceptable except as noted:

No groundwater field duplicates were submitted during this sampling event. The project frequency requirement of one field duplicate for every groundwater sampling event was not achieved.

Reporting Limits – Acceptable except as noted:

Metals by EPA 6010B/6020/7471A: The reporting limit for selenium was elevated to 7.6 µg/L in sample MW-01-0708 in SDG 0807-271 and 6.0 µg/L in sample AN-MW-01-0708, 8.6 µg/L in sample SP-1-0808, 10 µg/L in sample SP-2-0808, 12 µg/L in sample SP-4-0808, and 13 µg/L in sample SP-3-0808 in SDG 0808-014. These are slightly above the 5.6 µg/L reporting limit specified in the QAPP. The reporting limit for antimony was elevated to 3.0 µg/L in sample AN-MW-01-0708 and 1.4 µg/L in sample MW-06-0708, 2.2 µg/L in sample SP-2-0808, 2.6 µg/L in sample SP-4-0808, and 1.6 µg/L in sample SP-3-0808 in SDG 0808-014. These are slightly above the 1.0 µg/L reporting limit specified in the QAPP.

Other:

The total metals samples was decanted prior to analysis.

OVERALL ASSESSMENT OF DATA

The completeness of SDGs 0807-271 and 0808-014 is 100%. The usefulness of this data is based on EPA guidance documents listed in the introduction to this report. Few problems were identified and analytical performance was generally within specified limits. The data meet the project's data quality objectives.

Sample ID	Qualified Analyte	Qualified Result	Qualifier Reason
MW-05-0808	none		
SP-1-0808	none		
SP-2-0808	none		
SP-3-0808	none		
SP-4-0808	none		
MW-04-0808	none		
AN-MW-02-0708	none		
AN-MW-01-0708	none		
MW-06-0708	none		
Trip Blank	none		
MW-01-0708	none		
MW-02-0708	none		
MW-03-0708	none		
Trip Blank	none		



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 21, 2008

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654
Laboratory Reference No. 0807-271

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on July 31, 2008.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Baumeister', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

Case Narrative

Samples were collected on July 30, 2008 and received by the laboratory on July 31, 2008. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6020/7470A Analysis

The practical quantitation limit for Selenium is elevated for sample MW-01-0708 due to interferences present in the sample.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

NWTPH-Gx

Date Extracted: 8-4-08
 Date Analyzed: 8-4-08

Matrix: Water
 Units: ug/L (ppb)

Client ID:	MW-01-0708	MW-02-0708
Lab ID:	07-271-01	07-271-02

	Result	Flags	PQL	Result	Flags	PQL
TPH-Gas	ND		100	ND		100
Surrogate Recovery: Fluorobenzene	93%			94%		

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

NWTPH-Gx

Date Extracted: 8-4-08
Date Analyzed: 8-4-08

Matrix: Water
Units: ug/L (ppb)

Client ID: **MW-03-0708**
Lab ID: 07-271-03

	Result	Flags	PQL
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	95%		

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-4-08
Date Analyzed: 8-4-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0804W1

	Result	Flags	PQL
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	95%		

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

NWTPH-Gx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-4-08
Date Analyzed: 8-4-08

Matrix: Water
Units: ug/L (ppb)

Lab ID:	07-271-03 Original	07-271-03 Duplicate	RPD	Flags
TPH-Gas	ND	ND	NA	
Surrogate Recovery: Fluorobenzene	95%	94%		

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

NWTPH-Dx

Date Extracted: 8-4-08
 Date Analyzed: 8-5-08

Matrix: Water
 Units: mg/L (ppm)

Client ID:	MW-01-0708	MW-02-0708	MW-03-0708
Lab ID:	07-271-01	07-271-02	07-271-03
Diesel Range:	ND	ND	ND
PQL:	0.24	0.25	0.25
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.39	0.40	0.39
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	108%	94%	90%
Flags:	Y	Y	Y

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-4-08
Date Analyzed: 8-5-08

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0804W1

Diesel Range: **ND**
PQL: 0.25
Identification: ---

Lube Oil Range: **ND**
PQL: 0.40
Identification: ---

Surrogate Recovery
o-Terphenyl: 106%

Flags: Y

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-4-08
Date Analyzed: 8-5-08

Matrix: Water
Units: mg/L (ppm)

Lab ID: 07-271-03 07-271-03 DUP

Diesel Range: **ND** **ND**
PQL: 0.25 0.25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 90% 105%

Flags: Y Y

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM

page 1 of 3

Date Extracted: 8-2-08
 Date Analyzed: 8-4&6-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 07-271-01
 Client ID: MW-01-0708

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.0
Pyridine	ND		1.0
Phenol	ND		1.0
Aniline	ND		1.0
bis(2-Chloroethyl)ether	ND		1.0
2-Chlorophenol	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
Benzyl alcohol	ND		1.0
1,2-Dichlorobenzene	ND		1.0
2-Methylphenol (o-Cresol)	ND		1.0
bis(2-Chloroisopropyl)ether	ND		1.0
(3+4)-Methylphenol (m,p-Cresol)	ND		1.0
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		1.0
2-Nitrophenol	ND		1.0
2,4-Dimethylphenol	ND		1.0
bis(2-Chloroethoxy)methane	ND		1.0
2,4-Dichlorophenol	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	ND		0.10
4-Chloroaniline	ND		1.0
Hexachlorobutadiene	ND		1.0
4-Chloro-3-methylphenol	ND		1.0
2-Methylnaphthalene	ND		0.10
1-Methylnaphthalene	ND		0.10

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Lab ID: 07-271-01
Client ID: MW-01-0708

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.0
2,4,6-Trichlorophenol	ND		1.0
2,3-Dichloroaniline	ND		1.0
2,4,5-Trichlorophenol	ND		1.0
2-Chloronaphthalene	ND		1.0
2-Nitroaniline	ND		1.0
1,4-Dinitrobenzene	ND		1.0
Dimethylphthalate	ND		1.0
1,3-Dinitrobenzene	ND		1.0
2,6-Dinitrotoluene	ND		1.0
1,2-Dinitrobenzene	ND		1.0
Acenaphthylene	ND		0.10
3-Nitroaniline	ND		1.0
2,4-Dinitrophenol	ND		5.0
Acenaphthene	1.3		1.0
4-Nitrophenol	ND		1.0
2,4-Dinitrotoluene	ND		1.0
Dibenzofuran	ND		1.0
2,3,4,6-Tetrachlorophenol	ND		1.0
2,3,5,6-Tetrachlorophenol	ND		1.0
Diethylphthalate	ND		1.0
4-Chlorophenyl-phenylether	ND		1.0
4-Nitroaniline	ND		1.0
Fluorene	ND		0.10
4,6-Dinitro-2-methylphenol	ND		5.0
N-Nitrosodiphenylamine	ND		1.0
1,2-Diphenylhydrazine	ND		1.0
4-Bromophenyl-phenylether	ND		1.0
Hexachlorobenzene	ND		1.0
Pentachlorophenol	ND		5.0
Phenanthrene	ND		0.10
Anthracene	ND		0.10
Carbazole	ND		1.0
Di-n-butylphthalate	ND		1.0
Fluoranthene	ND		0.10

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Lab ID: 07-271-01
Client ID: MW-01-0708

Compound:	Results	Flags	PQL
Benzidine	ND		10
Pyrene	ND		0.10
Butylbenzylphthalate	ND		1.0
bis-2-Ethylhexyladipate	ND		1.0
3,3'-Dichlorobenzidine	ND		1.0
Benzo[a]anthracene	ND		0.010
Chrysene	ND		0.010
bis(2-Ethylhexyl)phthalate	ND		1.0
Di-n-octylphthalate	ND		1.0
Benzo[b]fluoranthene	ND		0.010
Benzo[k]fluoranthene	ND		0.010
Benzo[a]pyrene	ND		0.010
Indeno[1,2,3-cd]pyrene	ND		0.010
Dibenz[a,h]anthracene	ND		0.010
Benzo[g,h,i]perylene	ND		0.010

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	32	10 - 95
Phenol-d6	32	10 - 109
Nitrobenzene-d5	59	28 - 109
2-Fluorobiphenyl	65	34 - 101
2,4,6-Tribromophenol	78	46 - 115
Terphenyl-d14	69	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
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SEMIVOLATILES by EPA 8270D/SIM

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Date Extracted: 8-2-08
 Date Analyzed: 8-4&6-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 07-271-02
 Client ID: MW-02-0708

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.1
Pyridine	ND		1.1
Phenol	ND		1.1
Aniline	ND		1.1
bis(2-Chloroethyl)ether	ND		1.1
2-Chlorophenol	ND		1.1
1,3-Dichlorobenzene	ND		1.1
1,4-Dichlorobenzene	ND		1.1
Benzyl alcohol	ND		1.1
1,2-Dichlorobenzene	ND		1.1
2-Methylphenol (o-Cresol)	ND		1.1
bis(2-Chloroisopropyl)ether	ND		1.1
(3+4)-Methylphenol (m,p-Cresol)	15		1.1
N-Nitroso-di-n-propylamine	ND		1.1
Hexachloroethane	ND		1.1
Nitrobenzene	ND		1.1
Isophorone	ND		1.1
2-Nitrophenol	ND		1.1
2,4-Dimethylphenol	ND		1.1
bis(2-Chloroethoxy)methane	ND		1.1
2,4-Dichlorophenol	ND		1.1
1,2,4-Trichlorobenzene	ND		1.1
Naphthalene	ND		0.11
4-Chloroaniline	ND		1.1
Hexachlorobutadiene	ND		1.1
4-Chloro-3-methylphenol	ND		1.1
2-Methylnaphthalene	ND		0.11
1-Methylnaphthalene	ND		0.11

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
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Lab ID: 07-271-02
Client ID: MW-02-0708

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.1
2,4,6-Trichlorophenol	ND		1.1
2,3-Dichloroaniline	ND		1.1
2,4,5-Trichlorophenol	ND		1.1
2-Chloronaphthalene	ND		1.1
2-Nitroaniline	ND		1.1
1,4-Dinitrobenzene	ND		1.1
Dimethylphthalate	ND		1.1
1,3-Dinitrobenzene	ND		1.1
2,6-Dinitrotoluene	ND		1.1
1,2-Dinitrobenzene	ND		1.1
Acenaphthylene	ND		0.11
3-Nitroaniline	ND		1.1
2,4-Dinitrophenol	ND		5.3
Acenaphthene	ND		0.11
4-Nitrophenol	ND		1.1
2,4-Dinitrotoluene	ND		1.1
Dibenzofuran	ND		1.1
2,3,4,6-Tetrachlorophenol	ND		1.1
2,3,5,6-Tetrachlorophenol	ND		1.1
Diethylphthalate	ND		1.1
4-Chlorophenyl-phenylether	ND		1.1
4-Nitroaniline	ND		1.1
Fluorene	ND		0.11
4,6-Dinitro-2-methylphenol	ND		5.3
N-Nitrosodiphenylamine	ND		1.1
1,2-Diphenylhydrazine	ND		1.1
4-Bromophenyl-phenylether	ND		1.1
Hexachlorobenzene	ND		1.1
Pentachlorophenol	ND		5.3
Phenanthrene	ND		0.11
Anthracene	ND		0.11
Carbazole	ND		1.1
Di-n-butylphthalate	ND		1.1
Fluoranthene	ND		0.11

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Lab ID: 07-271-02
Client ID: MW-02-0708

Compound:	Results	Flags	PQL
Benzidine	ND		11
Pyrene	ND		0.11
Butylbenzylphthalate	ND		1.1
bis-2-Ethylhexyladipate	ND		1.1
3,3'-Dichlorobenzidine	ND		1.1
Benzo[a]anthracene	ND		0.011
Chrysene	ND		0.011
bis(2-Ethylhexyl)phthalate	ND		1.1
Di-n-octylphthalate	ND		1.1
Benzo[b]fluoranthene	ND		0.011
Benzo[k]fluoranthene	ND		0.011
Benzo[a]pyrene	ND		0.011
Indeno[1,2,3-cd]pyrene	ND		0.011
Dibenz[a,h]anthracene	ND		0.011
Benzo[g,h,i]perylene	ND		0.011

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	48	10 - 95
Phenol-d6	39	10 - 109
Nitrobenzene-d5	76	28 - 109
2-Fluorobiphenyl	68	34 - 101
2,4,6-Tribromophenol	72	46 - 115
Terphenyl-d14	73	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
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SEMIVOLATILES by EPA 8270D/SIM

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Date Extracted: 8-2-08
 Date Analyzed: 8-4&6-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 07-271-03
 Client ID: MW-03-0708

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.0
Pyridine	ND		1.0
Phenol	ND		1.0
Aniline	ND		1.0
bis(2-Chloroethyl)ether	ND		1.0
2-Chlorophenol	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
Benzyl alcohol	ND		1.0
1,2-Dichlorobenzene	ND		1.0
2-Methylphenol (o-Cresol)	ND		1.0
bis(2-Chloroisopropyl)ether	ND		1.0
(3+4)-Methylphenol (m,p-Cresol)	1.3		1.0
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		1.0
2-Nitrophenol	ND		1.0
2,4-Dimethylphenol	ND		1.0
bis(2-Chloroethoxy)methane	ND		1.0
2,4-Dichlorophenol	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	12		1.0
4-Chloroaniline	ND		1.0
Hexachlorobutadiene	ND		1.0
4-Chloro-3-methylphenol	ND		1.0
2-Methylnaphthalene	2.0		1.0
1-Methylnaphthalene	1.6		1.0

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
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Lab ID: 07-271-03
Client ID: MW-03-0708

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.0
2,4,6-Trichlorophenol	ND		1.0
2,3-Dichloroaniline	ND		1.0
2,4,5-Trichlorophenol	ND		1.0
2-Chloronaphthalene	ND		1.0
2-Nitroaniline	ND		1.0
1,4-Dinitrobenzene	ND		1.0
Dimethylphthalate	ND		1.0
1,3-Dinitrobenzene	ND		1.0
2,6-Dinitrotoluene	ND		1.0
1,2-Dinitrobenzene	ND		1.0
Acenaphthylene	ND		0.10
3-Nitroaniline	ND		1.0
2,4-Dinitrophenol	ND		5.0
Acenaphthene	4.5		1.0
4-Nitrophenol	ND		1.0
2,4-Dinitrotoluene	ND		1.0
Dibenzofuran	ND		1.0
2,3,4,6-Tetrachlorophenol	ND		1.0
2,3,5,6-Tetrachlorophenol	ND		1.0
Diethylphthalate	ND		1.0
4-Chlorophenyl-phenylether	ND		1.0
4-Nitroaniline	ND		1.0
Fluorene	2.0		1.0
4,6-Dinitro-2-methylphenol	ND		5.0
N-Nitrosodiphenylamine	ND		1.0
1,2-Diphenylhydrazine	ND		1.0
4-Bromophenyl-phenylether	ND		1.0
Hexachlorobenzene	ND		1.0
Pentachlorophenol	ND		5.0
Phenanthrene	0.47		0.10
Anthracene	ND		0.10
Carbazole	ND		1.0
Di-n-butylphthalate	ND		1.0
Fluoranthene	0.17		0.10

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Lab ID: 07-271-03
Client ID: MW-03-0708

Compound:	Results	Flags	PQL
Benzidine	ND		10
Pyrene	ND		0.10
Butylbenzylphthalate	ND		1.0
bis-2-Ethylhexyladipate	ND		1.0
3,3'-Dichlorobenzidine	ND		1.0
Benzo[a]anthracene	0.011		0.010
Chrysene	ND		0.010
bis(2-Ethylhexyl)phthalate	ND		1.0
Di-n-octylphthalate	ND		1.0
Benzo[b]fluoranthene	ND		0.010
Benzo[k]fluoranthene	ND		0.010
Benzo[a]pyrene	ND		0.010
Indeno[1,2,3-cd]pyrene	ND		0.010
Dibenz[a,h]anthracene	ND		0.010
Benzo[g,h,i]perylene	ND		0.010

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	37	10 - 95
Phenol-d6	34	10 - 109
Nitrobenzene-d5	60	28 - 109
2-Fluorobiphenyl	63	34 - 101
2,4,6-Tribromophenol	79	46 - 115
Terphenyl-d14	71	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Date Extracted: 8-2-08
 Date Analyzed: 8-4&6-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0802W1

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.0
Pyridine	ND		1.0
Phenol	ND		1.0
Aniline	ND		1.0
bis(2-Chloroethyl)ether	ND		1.0
2-Chlorophenol	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
Benzyl alcohol	ND		1.0
1,2-Dichlorobenzene	ND		1.0
2-Methylphenol (o-Cresol)	ND		1.0
bis(2-Chloroisopropyl)ether	ND		1.0
(3+4)-Methylphenol (m,p-Cresol)	ND		1.0
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		1.0
2-Nitrophenol	ND		1.0
2,4-Dimethylphenol	ND		1.0
bis(2-Chloroethoxy)methane	ND		1.0
2,4-Dichlorophenol	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	ND		0.10
4-Chloroaniline	ND		1.0
Hexachlorobutadiene	ND		1.0
4-Chloro-3-methylphenol	ND		1.0
2-Methylnaphthalene	ND		0.10
1-Methylnaphthalene	ND		0.10

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
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SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Lab ID: MB0802W1

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.0
2,4,6-Trichlorophenol	ND		1.0
2,3-Dichloroaniline	ND		1.0
2,4,5-Trichlorophenol	ND		1.0
2-Chloronaphthalene	ND		1.0
2-Nitroaniline	ND		1.0
1,4-Dinitrobenzene	ND		1.0
Dimethylphthalate	ND		1.0
1,3-Dinitrobenzene	ND		1.0
2,6-Dinitrotoluene	ND		1.0
1,2-Dinitrobenzene	ND		1.0
Acenaphthylene	ND		0.1
3-Nitroaniline	ND		1.0
2,4-Dinitrophenol	ND		5.0
Acenaphthene	ND		0.10
4-Nitrophenol	ND		1.0
2,4-Dinitrotoluene	ND		1.0
Dibenzofuran	ND		1.0
2,3,4,6-Tetrachlorophenol	ND		1.0
2,3,5,6-Tetrachlorophenol	ND		1.0
Diethylphthalate	ND		1.0
4-Chlorophenyl-phenylether	ND		1.0
4-Nitroaniline	ND		1.0
Fluorene	ND		0.10
4,6-Dinitro-2-methylphenol	ND		5.0
N-Nitrosodiphenylamine	ND		1.0
1,2-Diphenylhydrazine	ND		1.0
4-Bromophenyl-phenylether	ND		1.0
Hexachlorobenzene	ND		1.0
Pentachlorophenol	ND		5.0
Phenanthrene	ND		0.10
Anthracene	ND		0.10
Carbazole	ND		1.0
Di-n-butylphthalate	ND		1.0
Fluoranthene	ND		0.10

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Lab ID: MB0802W1

Compound:	Results	Flags	PQL
Benzidine	ND		10
Pyrene	ND		0.10
Butylbenzylphthalate	ND		1.0
bis-2-Ethylhexyladipate	ND		1.0
3,3'-Dichlorobenzidine	ND		1.0
Benzo[a]anthracene	ND		0.010
Chrysene	ND		0.010
bis(2-Ethylhexyl)phthalate	ND		1.0
Di-n-octylphthalate	ND		1.0
Benzo[b]fluoranthene	ND		0.010
Benzo[k]fluoranthene	ND		0.010
Benzo[a]pyrene	ND		0.010
Indeno[1,2,3-cd]pyrene	ND		0.010
Dibenz[a,h]anthracene	ND		0.010
Benzo[g,h,i]perylene	ND		0.010

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	34	10 - 95
Phenol-d6	31	10 - 109
Nitrobenzene-d5	56	28 - 109
2-Fluorobiphenyl	57	34 - 101
2,4,6-Tribromophenol	78	46 - 115
Terphenyl-d14	78	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Date Extracted: 8-2-08
 Date Analyzed: 8-4-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: SB0802W1

Compound:	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
Phenol	40.0	19.6	49	16.9	42	17-64	
2-Chlorophenol	40.0	22.9	57	20.1	50	40-94	
1,4-Dichlorobenzene	20.0	9.43	47	8.41	42	28-85	
N-Nitroso-di-n-propylamine	20.0	12.3	62	10.0	50	36-99	
1,2,4-Trichlorobenzene	20.0	10.3	52	8.97	45	31-85	
4-Chloro-3-methylphenol	40.0	29.4	74	31.1	78	52-98	
Acenaphthene	20.0	12.3	62	12.1	61	38-89	
2,4-Dinitrotoluene	20.0	15.6	78	16.5	82	45-122	
4-Nitrophenol	40.0	25.9	65	27.0	67	24-116	
Pentachlorophenol	40.0	33.3	83	35.9	90	37-130	
Pyrene	20.0	15.2	76	16.0	80	57-106	

	RPD	RPD Limits	Flags
Phenol	15	30	
2-Chlorophenol	13	32	
1,4-Dichlorobenzene	11	36	
N-Nitroso-di-n-propylamine	20	31	
1,2,4-Trichlorobenzene	14	35	
4-Chloro-3-methylphenol	5	26	
Acenaphthene	2	27	
2,4-Dinitrotoluene	5	30	
4-Nitrophenol	4	30	
Pentachlorophenol	8	30	
Pyrene	6	15	

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-01-0708					
Laboratory ID:	07-271-01					
Aroclor 1016	ND	0.052	EPA 8082	8-1-08	8-8-08	X
Aroclor 1221	ND	0.052	EPA 8082	8-1-08	8-8-08	X
Aroclor 1232	ND	0.052	EPA 8082	8-1-08	8-8-08	X
Aroclor 1242	ND	0.052	EPA 8082	8-1-08	8-8-08	X
Aroclor 1248	ND	0.052	EPA 8082	8-1-08	8-8-08	X
Aroclor 1254	ND	0.052	EPA 8082	8-1-08	8-8-08	X
Aroclor 1260	ND	0.052	EPA 8082	8-1-08	8-8-08	X
Aroclor 1262	ND	0.052	EPA 8082	8-1-08	8-8-08	X
Aroclor 1268	ND	0.052	EPA 8082	8-1-08	8-8-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	120	35-135				
Client ID:	MW-02-0708					
Laboratory ID:	07-271-02					
Aroclor 1016	ND	0.049	EPA 8082	8-1-08	8-8-08	X
Aroclor 1221	ND	0.049	EPA 8082	8-1-08	8-8-08	X
Aroclor 1232	ND	0.049	EPA 8082	8-1-08	8-8-08	X
Aroclor 1242	ND	0.049	EPA 8082	8-1-08	8-8-08	X
Aroclor 1248	ND	0.049	EPA 8082	8-1-08	8-8-08	X
Aroclor 1254	ND	0.049	EPA 8082	8-1-08	8-8-08	X
Aroclor 1260	ND	0.049	EPA 8082	8-1-08	8-8-08	X
Aroclor 1262	ND	0.049	EPA 8082	8-1-08	8-8-08	X
Aroclor 1268	ND	0.049	EPA 8082	8-1-08	8-8-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	107	35-135				
Client ID:	MW-03-0708					
Laboratory ID:	07-271-03					
Aroclor 1016	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1221	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1232	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1242	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1248	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1254	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1260	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1262	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1268	ND	0.050	EPA 8082	8-1-08	8-8-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	98	35-135				

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 Laboratory Reference: 0807-271
 Project: 10654

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0801W1					
Aroclor 1016	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1221	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1232	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1242	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1248	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1254	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1260	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1262	ND	0.050	EPA 8082	8-1-08	8-8-08	X
Aroclor 1268	ND	0.050	EPA 8082	8-1-08	8-8-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	96	35-135				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0801W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.366	0.375	0.500	0.500	N/A	73	75	61-114	2	12	
<i>Surrogate:</i>											
<i>DCB</i>						72	71	35-135			

Date of Report: August 21, 2008
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 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-7,8&11-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-01
 Client ID: MW-01-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	3.9	1.0
Barium	6020	120	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	5.2	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	7.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-7,8&11-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-02
 Client ID: MW-02-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	3.2	1.0
Barium	6020	32	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
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**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-7,8&11-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03
 Client ID: MW-03-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Barium	6020	40	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
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**TOTAL METALS
 EPA 6020/7470A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-7,8&11-08

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: MB0807W1&MB0811W1

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Beryllium	6020	ND	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	2.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
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**TOTAL METALS
 EPA 6020/7470A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-7,8&11-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	1.0	
Beryllium	39.6	39.7	0	50	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	6.84	NA	3.0	
Lead	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.125	
Nickel	ND	ND	NA	8.0	
Selenium	ND	ND	NA	5.6	
Silver	ND	ND	NA	8.0	
Thallium	ND	ND	NA	2.0	
Zinc	ND	ND	NA	50	

Date of Report: August 21, 2008
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 Project: 10654

**TOTAL METALS
 EPA 6020/7470A
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-7,8&11-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	100	100	98.1	98	2	
Arsenic	100	93.4	93	93.3	93	0	
Beryllium	100	138	98	130	91	6	
Cadmium	100	93.8	94	91.3	91	3	
Chromium	100	103	103	102	102	1	
Copper	100	97.3	97	96.2	96	1	
Lead	100	90.2	90	90.3	90	0	
Mercury	12.5	11.3	90	11.3	91	0	
Nickel	100	102	102	102.0	102	0	
Selenium	100	88.7	89	85.9	86	3	
Silver	100	87.9	88	82.1	82	7	
Thallium	100	92.9	93	91.5	91	2	
Zinc	100	87.3	87	84.8	85	3	

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
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 Project: 10654

VOLATILES by EPA 8260B

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Date Extracted: 8-5-08
 Date Analyzed: 8-5-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-01
Client ID: MW-01-0708

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	0.21		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

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Lab ID: 07-271-01
 Client ID: MW-01-0708

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	8.1		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	79	71-126
Toluene-d8	77	76-116
4-Bromofluorobenzene	74	70-123

Date of Report: August 21, 2008
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Date Extracted: 8-5-08
 Date Analyzed: 8-5-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 07-271-02
 Client ID: MW-02-0708

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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Lab ID: 07-271-02
 Client ID: MW-02-0708

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	78	71-126
Toluene-d8	78	76-116
4-Bromofluorobenzene	76	70-123

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Date Extracted: 8-5-08
 Date Analyzed: 8-5-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 07-271-03
 Client ID: MW-03-0708

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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Lab ID: 07-271-03
 Client ID: MW-03-0708

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	0.24		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	6.3		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	20		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	78	71-126
Toluene-d8	79	76-116
4-Bromofluorobenzene	77	70-123

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VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

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Date Extracted: 8-5-08
 Date Analyzed: 8-5-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0805W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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METHOD BLANK QUALITY CONTROL

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Lab ID: MB0805W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	77	71-126
Toluene-d8	77	76-116
4-Bromofluorobenzene	74	70-123

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**VOLATILES by EPA 8260B
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-5-08
 Date Analyzed: 8-5-08
 Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03

Compound	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	ND	10.0	11.1	111	10.8	108	70-130	
Benzene	ND	10.0	11.2	112	10.8	108	70-130	
Trichloroethene	ND	10.0	10.3	103	9.95	100	77-114	
Toluene	ND	10.0	10.8	108	10.6	106	79-121	
Chlorobenzene	ND	10.0	9.87	99	9.77	98	77-108	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	3	11	
Benzene	3	11	
Trichloroethene	3	10	
Toluene	1	11	
Chlorobenzene	1	10	

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**DISSOLVED METALS
 EPA 6020/7470A**

Date Analyzed: 8-5,7&8-08

Matrix: Water

Units: ug/L (ppb)

Lab ID: 07-271-01

Client ID: MW-01-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	3.3	1.0
Barium	6020	110	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.5
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**DISSOLVED METALS
 EPA 6020/7470A**

Date Analyzed: 8-5,7&8-08

Matrix: Water

Units: ug/L (ppb)

Lab ID: 07-271-02

Client ID: MW-02-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	3.5	1.0
Barium	6020	ND	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.5
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**DISSOLVED METALS
 EPA 6020/7470A**

Date Analyzed: 8-5,7&8-08

Matrix: Water

Units: ug/L (ppb)

Lab ID: 07-271-03

Client ID: MW-03-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Barium	6020	63	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.5
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**DISSOLVED METALS
 EPA 6020
 METHOD BLANK QUALITY CONTROL**

Date Analyzed: 8-5,7&8-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0807D2&MB0808D1

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Barium	6020	ND	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.5
Zinc	6020	ND	50

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

**DISSOLVED METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 8-5,7&8-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0807W1

Analyte	Method	Result	PQL
Chromium	6020	ND	10
Selenium	6020	ND	5.0

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

**DISSOLVED METALS
EPA 7470A
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 8-5,7&8-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0805D1

Analyte	Method	Result	PQL
Mercury	7470A	ND	0.125

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**DISSOLVED METALS
 EPA 6020
 DUPLICATE QUALITY CONTROL**

Date Analyzed: 8-5,7&8-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	1.05	NA	1.0	
Barium	62.7	64.6	3	50	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	ND	NA	3.0	
Lead	ND	ND	NA	1.0	
Nickel	ND	ND	NA	8.0	
Selenium	ND	ND	NA	5.0	
Silver	ND	ND	NA	8.0	
Thallium	ND	ND	NA	5.5	
Zinc	ND	ND	NA	50	

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

**DISSOLVED METALS
EPA 6020
DUPLICATE QUALITY CONTROL**

Date Analyzed: 8-5,7&8-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Chromium	ND	ND	NA	10	
Selenium	ND	ND	NA	5.0	

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

**DISSOLVED METALS
EPA 7470A
DUPLICATE QUALITY CONTROL**

Date Analyzed: 8-5,7&8-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: 07-235-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.125	

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**DISSOLVED METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Analyzed: 8-5,7&8-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	200	203	102	207	104	2	
Arsenic	80	85.8	107	86.8	108	1	
Barium	200	265	101	266	102	0	
Cadmium	200	200	100	202	101	1	
Chromium	200	192	96	196	98	2	
Copper	200	193	97	193	97	0	
Lead	200	197	98	193	97	2	
Nickel	200	205	103	201	101	2	
Selenium	80	85.5	107	86.7	108	1	
Silver	80	69.1	86	68.4	85	1	
Thallium	200	197	98	193	96	2	
Zinc	200	182	91	184	92	1	

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

**DISSOLVED METALS
EPA 6020
MS/MSD QUALITY CONTROL**

Date Analyzed: 8-5,7&8-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Chromium	100	103	103	102	102	1	
Selenium	100	88.7	89	85.9	86	3	

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

**DISSOLVED METALS
EPA 7470A
MS/MSD QUALITY CONTROL**

Date Analyzed: 8-5,7&8-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: 07-235-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	12.5	11.8	95	11.8	95	0	

Date of Report: August 21, 2008
Samples Submitted: July 31, 2008
Laboratory Reference: 0807-271
Project: 10654

**TOTAL DISSOLVED SOLIDS
EPA 160.1**

Date Analyzed: 8-3-08

Matrix: Water
Units: mg/L

Client ID	Lab ID	Result	PQL
MW-01-0708	07-271-01	4600	13
MW-02-0708	07-071-02	1200	13
MW-03-0708	07-071-03	1100	13

Date of Report: August 21, 2008
 Samples Submitted: July 31, 2008
 Laboratory Reference: 0807-271
 Project: 10654

**TOTAL DISSOLVED SOLIDS
 EPA 160.1
 QUALITY CONTROL**

Date Analyzed: 8-3-08

Matrix: Water
 Units: mg/L

METHOD BLANK QUALITY CONTROL

Lab ID	Result	PQL
MB0801W1	ND	13

SPIKE BLANK QUALITY CONTROL

Lab ID	Result	Spiked Amount	Percent Recovery	Control Limit	Flag
SB0801W1	489	500	98	79-112	

DUPLICATE QUALITY CONTROL

Lab ID	Sample Result	Duplicate Result	RPD	Control Limit	Flag
07-271-01	4590	4630	1	16	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Analytical Resources, Incorporated

Analytical Chemists and Consultants

19 August 2008

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 10654
ARI Job No: NI96

Dear David:

Please find enclosed the original Chain-of-Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. accepted three water samples on August 4, 2008. The samples were received intact. The samples were analyzed for salinity as requested.

There were no problems with these analyses.

An electronic copy of these reports will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file NI96

MDH/mdh

METHOD BLANK RESULTS-CONVENTIONALS
NI96-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized *[Signature]*
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank
Conductivity	EPA 120.1	08/12/08	umhos/cm	< 1.00 U
Salinity	SM 2520.B	08/12/08	ppt	< 0.10 U

SAMPLE RESULTS-CONVENTIONALS
NI96-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized:
Reported: 08/19/08

A handwritten signature in black ink, appearing to be 'MJC', is written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 07/30/08
Date Received: 08/04/08

Client ID: MW-01-0708
ARI ID: 08-18891 NI96A

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	7,100
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	3.90

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI96-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: [Signature]
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 07/30/08
Date Received: 08/04/08

Client ID: MW-02-0708
ARI ID: 08-18892 NI96B

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	1,880
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	0.90

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI96-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 07/30/08
Date Received: 08/04/08

Client ID: MW-03-0708
ARI ID: 08-18893 NI96C

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	1,810
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	0.90

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
NI96-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized
Reported: 08/19/08

A handwritten signature in black ink, appearing to be 'DK', is written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	LCS	Spike Added	Recovery
Salinity	SM 2520.B	08/12/08	ppt	34.2	35.0	97.7%

STANDARD REFERENCE RESULTS-CONVENTIONALS
NI96-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Conductivity Ricca #3193	EPA 120.1	08/12/08	umhos/cm	1,010	1,000	101.0%



OnSite Environmental Inc.

Phone: (425) 883-3881 • Fax: (425) 865-4603

Company: Geomatrix - Amec
 Project Number: 106054
 Project Name: Custom Plywood
 Project Manager: Kathleen Goodman
 Sampled by: Chris Brown

Chain of Custody

Laboratory Number: 07-271

Page 1 of 1

Turnaround Request (in working days)
 (Check One)
 Same Day
 1 Day
 2 Day
 3 Day
 Standard (7 working days)
 (TPH analysis 5 working days)
 (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total PCRA Metals	TCLP Metals	HEM by 1664	VOCs EPA 5035	Dissolved Metals (SEE BELOW)	TDS	% Salinity	% Moisture
1	MW-01-0708	7/30/08	1030	W	13		XX	XX			XX		XX			●			XX	XX	●		
2	MW-02-0708	↓	1430		13		XX	XX			XX		XX			●			XX	XX	●		
3	MW-03-0708	↓	1630		26		XX	XX			XX		XX			●			XX	XX	●		
4	AN-MW-020708	7/31/08	945	↓	13		XX	XX			XX		XX			●			XX	XX	●		
	TSIP blank			W	24		X												X				

Signature	Company	Date	Time	Comments/Special Instructions
	Amec GMX	7/31/08	1323	*TPH-DX → these - Decant method *Metals: Sb, As, Bi, Ba, Cd, Cr, Pb, Cu, Hg, Ni, Se, Ag, Ti, Zn *Metals field filtered *AN-MW-02-0708 to be delivered 8-1-08
	SPERRY FISHER	07/31/08	1323	
	SPERRY FISHER	07/31/08	1453	
	OnSite Env	7/31/08	1453	
				Added 8/1/08 SEE
				Added 8/2/08 - DB - Chromatograms with final report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 21, 2008

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654
Laboratory Reference No. 0808-014

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on August 2, 2008.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB' followed by a long horizontal stroke.

David Baumeister
Project Manager

Enclosures

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

Case Narrative

Samples were collected on July 31 and August 1, 2008 and received by the laboratory on August 2, 2008. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Metals EPA 6020/7470A Analysis

The practical quantitation limit for Arsenic is elevated for samples AN-MW-01-0708 and MW-06-0708 due to interferences present in samples.

The practical quantitation limit for Selenium is elevated for sample AN-MW-01-0708 due to interferences present in sample.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Total Metals EPA 6020/7470A Analysis

The samples were decanted at client request.

The practical quantitation limit for Arsenic is elevated for samples SP-2-0808, SP-3-0808, SP-4-0808, AN-MW-01-0708 and MW-06-0708 due to interferences present in samples.

The practical quantitation limit for Selenium is elevated for samples SP-1-0808, SP-2-0808, SP-3-0808, SP-4-0808, AN-MW-02-0708 and AN-MW-01-0708 due to interferences present in samples.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

NWTPH-Gx

Date Extracted: 8-5-08
 Date Analyzed: 8-5-08

Matrix: Water
 Units: ug/L (ppb)

Client ID: **MW05-0808** **SP-1-0808**
 Lab ID: 08-014-01 08-014-02

	Result	Flags	PQL	Result	Flags	PQL
TPH-Gas	ND		400	ND		100
Surrogate Recovery: Fluorobenzene	84%			92%		

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

NWTPH-Gx

Date Extracted: 8-5-08
 Date Analyzed: 8-5-08

Matrix: Water
 Units: ug/L (ppb)

Client ID:	SP-2-0808	SP-3-0808
Lab ID:	08-014-03	08-014-04

	Result	Flags	PQL	Result	Flags	PQL
TPH-Gas	ND		100	ND		100
Surrogate Recovery: Fluorobenzene	92%			92%		

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

NWTPH-Gx

Date Extracted: 8-5-08
 Date Analyzed: 8-5-08

Matrix: Water
 Units: ug/L (ppb)

Client ID: **SP-4-0808** **MW-040808**
 Lab ID: 08-014-05 08-014-06

	Result	Flags	PQL	Result	Flags	PQL
TPH-Gas	ND		100	ND		100
Surrogate Recovery: Fluorobenzene	91%			93%		

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

NWTPH-Gx

Date Extracted: 8-5-08
 Date Analyzed: 8-5-08

Matrix: Water
 Units: ug/L (ppb)

Client ID:	AN-MW-02-0708	AN-MW-01-0708
Lab ID:	08-014-07	08-014-08

	Result	Flags	PQL	Result	Flags	PQL
TPH-Gas	ND		100	ND		100
Surrogate Recovery: Fluorobenzene	91%			91%		

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

NWTPH-Gx

Date Extracted: 8-5-08
Date Analyzed: 8-5-08

Matrix: Water
Units: ug/L (ppb)

Client ID: **MW-06-0708**
Lab ID: 08-014-09

Trip blank
08-014-10

	Result	Flags	PQL	Result	Flags	PQL
TPH-Gas	ND		100	ND		100
Surrogate Recovery: Fluorobenzene	91%			93%		

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-5-08
Date Analyzed: 8-5-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0805W2

	Result	Flags	PQL
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	94%		

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

NWTPH-Gx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-5-08
Date Analyzed: 8-5-08

Matrix: Water
Units: ug/L (ppb)

Lab ID:	08-014-08 Original	08-014-08 Duplicate	RPD	Flags
TPH-Gas	ND	ND	NA	
Surrogate Recovery: Fluorobenzene	91%	93%		

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

NWTPH-Dx

Date Extracted: 8-6-08
 Date Analyzed: 8-6-08

Matrix: Water
 Units: mg/L (ppm)

Client ID:	MW05-0808	SP-1-0808	SP-2-0808
Lab ID:	08-014-01	08-014-02	08-014-03
Diesel Range:	ND	ND	ND
PQL:	0.22	0.24	0.26
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.36	0.38	0.41
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	63%	91%	87%
Flags:	Y	Y	Y

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

NWTPH-Dx

Date Extracted: 8-6-08
 Date Analyzed: 8-6-08

Matrix: Water
 Units: mg/L (ppm)

Client ID:	SP-3-0808	SP-4-0808	MW-040808
Lab ID:	08-014-04	08-014-05	08-014-06
Diesel Range:	ND	ND	ND
PQL:	0.23	0.23	0.24
Identification:	---	---	---
Lube Oil Range:	ND	1.2	ND
PQL:	0.37	0.37	0.38
Identification:	---	Lube Oil	---
Surrogate Recovery			
o-Terphenyl:	84%	94%	94%
Flags:	Y	Y	Y

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

NWTPH-Dx

Date Extracted: 8-6-08
 Date Analyzed: 8-6-08

Matrix: Water
 Units: mg/L (ppm)

Client ID:	AN-MW-02-0708	AN-MW-01-0708	MW-06-0708
Lab ID:	08-014-07	08-014-08	08-014-09
Diesel Range:	ND	ND	ND
PQL:	0.26	0.27	0.24
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.41	0.44	0.39
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	72%	76%	82%
Flags:	Y	Y	Y

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-6-08
Date Analyzed: 8-6-08

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0806W1

Diesel Range: **ND**
PQL: 0.25
Identification: ---

Lube Oil Range: **ND**
PQL: 0.40
Identification: ---

Surrogate Recovery
o-Terphenyl: 82%

Flags: Y

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-6-08
Date Analyzed: 8-6-08

Matrix: Water
Units: mg/L (ppm)

Lab ID: 07-211-05 07-211-05 DUP

Diesel Range: **0.242** **ND**
PQL: 0.23 0.26

RPD: N/A

Surrogate Recovery
o-Terphenyl: 80% 76%

Flags: Y Y

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
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Date Extracted: 8-5-08
 Date Analyzed: 8-8&12-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-01
 Client ID: MW-05-0808

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.0
Pyridine	ND		1.0
Phenol	2.8		1.0
Aniline	ND		1.0
bis(2-Chloroethyl)ether	ND		1.0
2-Chlorophenol	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
Benzyl alcohol	ND		1.0
1,2-Dichlorobenzene	ND		1.0
2-Methylphenol (o-Cresol)	ND		1.0
bis(2-Chloroisopropyl)ether	ND		1.0
(3+4)-Methylphenol (m,p-Cresol)	650		20
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		1.0
2-Nitrophenol	ND		1.0
2,4-Dimethylphenol	ND		1.0
bis(2-Chloroethoxy)methane	ND		1.0
2,4-Dichlorophenol	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	ND		0.10
4-Chloroaniline	ND		1.0
Hexachlorobutadiene	ND		1.0
4-Chloro-3-methylphenol	ND		1.0
2-Methylnaphthalene	ND		0.10
1-Methylnaphthalene	ND		0.10

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

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Lab ID: 08-014-01
Client ID: MW-05-0808

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.0
2,4,6-Trichlorophenol	ND		1.0
2,3-Dichloroaniline	ND		1.0
2,4,5-Trichlorophenol	ND		1.0
2-Chloronaphthalene	ND		1.0
2-Nitroaniline	ND		1.0
1,4-Dinitrobenzene	ND		1.0
Dimethylphthalate	ND		1.0
1,3-Dinitrobenzene	ND		1.0
2,6-Dinitrotoluene	ND		1.0
1,2-Dinitrobenzene	ND		1.0
Acenaphthylene	ND		0.10
3-Nitroaniline	ND		1.0
2,4-Dinitrophenol	ND		5.1
Acenaphthene	ND		0.10
4-Nitrophenol	ND		1.0
2,4-Dinitrotoluene	ND		1.0
Dibenzofuran	ND		1.0
2,3,4,6-Tetrachlorophenol	ND		1.0
2,3,5,6-Tetrachlorophenol	ND		1.0
Diethylphthalate	ND		1.0
4-Chlorophenyl-phenylether	ND		1.0
4-Nitroaniline	ND		1.0
Fluorene	ND		0.10
4,6-Dinitro-2-methylphenol	ND		5.1
N-Nitrosodiphenylamine	ND		1.0
1,2-Diphenylhydrazine	ND		1.0
4-Bromophenyl-phenylether	ND		1.0
Hexachlorobenzene	ND		1.0
Pentachlorophenol	ND		5.1
Phenanthrene	ND		0.10
Anthracene	ND		0.10
Carbazole	ND		1.0
Di-n-butylphthalate	ND		1.0
Fluoranthene	ND		0.10

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
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Lab ID: 08-014-01
Client ID: MW-05-0808

Compound:	Results	Flags	PQL
Benzidine	ND		10
Pyrene	ND		0.10
Butylbenzylphthalate	ND		1.0
bis-2-Ethylhexyladipate	ND		1.0
3,3'-Dichlorobenzidine	ND		1.0
Benzo[a]anthracene	0.021		0.010
Chrysene	0.032		0.010
bis(2-Ethylhexyl)phthalate	ND		1.0
Di-n-octylphthalate	ND		1.0
Benzo[b]fluoranthene	0.016		0.010
Benzo[k]fluoranthene	ND		0.010
Benzo[a]pyrene	0.010		0.010
Indeno[1,2,3-cd]pyrene	ND		0.010
Dibenz[a,h]anthracene	ND		0.010
Benzo[g,h,i]perylene	ND		0.010

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	41	10 - 95
Phenol-d6	36	10 - 109
Nitrobenzene-d5	68	28 - 109
2-Fluorobiphenyl	70	34 - 101
2,4,6-Tribromophenol	94	46 - 115
Terphenyl-d14	68	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

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Date Extracted: 8-5-08
 Date Analyzed: 8-8&11-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-02
Client ID: SP-1-0808

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.97
Pyridine	ND		0.97
Phenol	ND		0.97
Aniline	ND		0.97
bis(2-Chloroethyl)ether	ND		0.97
2-Chlorophenol	ND		0.97
1,3-Dichlorobenzene	ND		0.97
1,4-Dichlorobenzene	ND		0.97
Benzyl alcohol	ND		0.97
1,2-Dichlorobenzene	ND		0.97
2-Methylphenol (o-Cresol)	ND		0.97
bis(2-Chloroisopropyl)ether	ND		0.97
(3+4)-Methylphenol (m,p-Cresol)	ND		0.97
N-Nitroso-di-n-propylamine	ND		0.97
Hexachloroethane	ND		0.97
Nitrobenzene	ND		0.97
Isophorone	ND		0.97
2-Nitrophenol	ND		0.97
2,4-Dimethylphenol	ND		0.97
bis(2-Chloroethoxy)methane	ND		0.97
2,4-Dichlorophenol	ND		0.97
1,2,4-Trichlorobenzene	ND		0.97
Naphthalene	ND		0.097
4-Chloroaniline	ND		0.97
Hexachlorobutadiene	ND		0.97
4-Chloro-3-methylphenol	ND		0.97
2-Methylnaphthalene	ND		0.097
1-Methylnaphthalene	ND		0.097

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
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Lab ID: 08-014-02
 Client ID: SP-1-0808

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.97
2,4,6-Trichlorophenol	ND		0.97
2,3-Dichloroaniline	ND		0.97
2,4,5-Trichlorophenol	ND		0.97
2-Chloronaphthalene	ND		0.97
2-Nitroaniline	ND		0.97
1,4-Dinitrobenzene	ND		0.97
Dimethylphthalate	ND		0.97
1,3-Dinitrobenzene	ND		0.97
2,6-Dinitrotoluene	ND		0.97
1,2-Dinitrobenzene	ND		0.97
Acenaphthylene	ND		0.097
3-Nitroaniline	ND		0.97
2,4-Dinitrophenol	ND		4.9
Acenaphthene	ND		0.097
4-Nitrophenol	ND		0.97
2,4-Dinitrotoluene	ND		0.97
Dibenzofuran	ND		0.97
2,3,4,6-Tetrachlorophenol	ND		0.97
2,3,5,6-Tetrachlorophenol	ND		0.97
Diethylphthalate	ND		0.97
4-Chlorophenyl-phenylether	ND		0.97
4-Nitroaniline	ND		0.97
Fluorene	ND		0.097
4,6-Dinitro-2-methylphenol	ND		4.9
N-Nitrosodiphenylamine	ND		0.97
1,2-Diphenylhydrazine	ND		0.97
4-Bromophenyl-phenylether	ND		0.97
Hexachlorobenzene	ND		0.97
Pentachlorophenol	ND		4.9
Phenanthrene	ND		0.097
Anthracene	ND		0.097
Carbazole	ND		0.97
Di-n-butylphthalate	ND		0.97
Fluoranthene	ND		0.097

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
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Lab ID: 08-014-02
Client ID: SP-1-0808

Compound:	Results	Flags	PQL
Benzidine	ND		9.7
Pyrene	ND		0.097
Butylbenzylphthalate	ND		0.97
bis-2-Ethylhexyladipate	ND		0.97
3,3'-Dichlorobenzidine	ND		0.97
Benzo[a]anthracene	ND		0.0097
Chrysene	ND		0.0097
bis(2-Ethylhexyl)phthalate	ND		0.97
Di-n-octylphthalate	ND		0.97
Benzo[b]fluoranthene	ND		0.0097
Benzo[k]fluoranthene	ND		0.0097
Benzo[a]pyrene	ND		0.0097
Indeno[1,2,3-cd]pyrene	ND		0.0097
Dibenz[a,h]anthracene	ND		0.0097
Benzo[g,h,i]perylene	ND		0.0097

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	29	10 - 95
Phenol-d6	32	10 - 109
Nitrobenzene-d5	51	28 - 109
2-Fluorobiphenyl	63	34 - 101
2,4,6-Tribromophenol	92	46 - 115
Terphenyl-d14	75	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
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Date Extracted: 8-5-08
 Date Analyzed: 8-8&11-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-03
 Client ID: **SP-2-0808**

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.0
Pyridine	ND		1.0
Phenol	ND		1.0
Aniline	ND		1.0
bis(2-Chloroethyl)ether	ND		1.0
2-Chlorophenol	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
Benzyl alcohol	ND		1.0
1,2-Dichlorobenzene	ND		1.0
2-Methylphenol (o-Cresol)	ND		1.0
bis(2-Chloroisopropyl)ether	ND		1.0
(3+4)-Methylphenol (m,p-Cresol)	ND		1.0
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		1.0
2-Nitrophenol	ND		1.0
2,4-Dimethylphenol	ND		1.0
bis(2-Chloroethoxy)methane	ND		1.0
2,4-Dichlorophenol	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	ND		0.10
4-Chloroaniline	ND		1.0
Hexachlorobutadiene	ND		1.0
4-Chloro-3-methylphenol	ND		1.0
2-Methylnaphthalene	ND		0.10
1-Methylnaphthalene	ND		0.10

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

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Lab ID: 08-014-03
Client ID: SP-2-0808

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.0
2,4,6-Trichlorophenol	ND		1.0
2,3-Dichloroaniline	ND		1.0
2,4,5-Trichlorophenol	ND		1.0
2-Chloronaphthalene	ND		1.0
2-Nitroaniline	ND		1.0
1,4-Dinitrobenzene	ND		1.0
Dimethylphthalate	ND		1.0
1,3-Dinitrobenzene	ND		1.0
2,6-Dinitrotoluene	ND		1.0
1,2-Dinitrobenzene	ND		1.0
Acenaphthylene	ND		0.10
3-Nitroaniline	ND		1.0
2,4-Dinitrophenol	ND		5.1
Acenaphthene	ND		0.10
4-Nitrophenol	ND		1.0
2,4-Dinitrotoluene	ND		1.0
Dibenzofuran	ND		1.0
2,3,4,6-Tetrachlorophenol	ND		1.0
2,3,5,6-Tetrachlorophenol	ND		1.0
Diethylphthalate	ND		1.0
4-Chlorophenyl-phenylether	ND		1.0
4-Nitroaniline	ND		1.0
Fluorene	ND		0.10
4,6-Dinitro-2-methylphenol	ND		5.1
N-Nitrosodiphenylamine	ND		1.0
1,2-Diphenylhydrazine	ND		1.0
4-Bromophenyl-phenylether	ND		1.0
Hexachlorobenzene	ND		1.0
Pentachlorophenol	ND		5.1
Phenanthrene	ND		0.10
Anthracene	ND		0.10
Carbazole	ND		1.0
Di-n-butylphthalate	ND		1.0
Fluoranthene	ND		0.10

Date of Report: August 21, 2008
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Lab ID: 08-014-03
Client ID: SP-2-0808

Compound:	Results	Flags	PQL
Benzidine	ND		10
Pyrene	ND		0.10
Butylbenzylphthalate	ND		1.0
bis-2-Ethylhexyladipate	ND		1.0
3,3'-Dichlorobenzidine	ND		1.0
Benzo[a]anthracene	ND		0.010
Chrysene	ND		0.010
bis(2-Ethylhexyl)phthalate	ND		1.0
Di-n-octylphthalate	ND		1.0
Benzo[b]fluoranthene	ND		0.010
Benzo[k]fluoranthene	ND		0.010
Benzo[a]pyrene	ND		0.010
Indeno[1,2,3-cd]pyrene	ND		0.010
Dibenz[a,h]anthracene	ND		0.010
Benzo[g,h,i]perylene	ND		0.010

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	32	10 - 95
Phenol-d6	34	10 - 109
Nitrobenzene-d5	48	28 - 109
2-Fluorobiphenyl	61	34 - 101
2,4,6-Tribromophenol	87	46 - 115
Terphenyl-d14	73	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
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Date Extracted: 8-5-08
 Date Analyzed: 8-8&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-04
Client ID: SP-3-0808

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.97
Pyridine	ND		0.97
Phenol	ND		0.97
Aniline	ND		0.97
bis(2-Chloroethyl)ether	ND		0.97
2-Chlorophenol	ND		0.97
1,3-Dichlorobenzene	ND		0.97
1,4-Dichlorobenzene	ND		0.97
Benzyl alcohol	ND		0.97
1,2-Dichlorobenzene	ND		0.97
2-Methylphenol (o-Cresol)	ND		0.97
bis(2-Chloroisopropyl)ether	ND		0.97
(3+4)-Methylphenol (m,p-Cresol)	ND		0.97
N-Nitroso-di-n-propylamine	ND		0.97
Hexachloroethane	ND		0.97
Nitrobenzene	ND		0.97
Isophorone	ND		0.97
2-Nitrophenol	ND		0.97
2,4-Dimethylphenol	ND		0.97
bis(2-Chloroethoxy)methane	ND		0.97
2,4-Dichlorophenol	ND		0.97
1,2,4-Trichlorobenzene	ND		0.97
Naphthalene	ND		0.097
4-Chloroaniline	ND		0.97
Hexachlorobutadiene	ND		0.97
4-Chloro-3-methylphenol	ND		0.97
2-Methylnaphthalene	ND		0.097
1-Methylnaphthalene	ND		0.097

Date of Report: August 21, 2008
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Lab ID: 08-014-04
 Client ID: SP-3-0808

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.97
2,4,6-Trichlorophenol	ND		0.97
2,3-Dichloroaniline	ND		0.97
2,4,5-Trichlorophenol	ND		0.97
2-Chloronaphthalene	ND		0.97
2-Nitroaniline	ND		0.97
1,4-Dinitrobenzene	ND		0.97
Dimethylphthalate	ND		0.97
1,3-Dinitrobenzene	ND		0.97
2,6-Dinitrotoluene	ND		0.97
1,2-Dinitrobenzene	ND		0.97
Acenaphthylene	ND		0.097
3-Nitroaniline	ND		0.97
2,4-Dinitrophenol	ND		4.9
Acenaphthene	ND		0.097
4-Nitrophenol	ND		0.97
2,4-Dinitrotoluene	ND		0.97
Dibenzofuran	ND		0.97
2,3,4,6-Tetrachlorophenol	ND		0.97
2,3,5,6-Tetrachlorophenol	ND		0.97
Diethylphthalate	ND		0.97
4-Chlorophenyl-phenylether	ND		0.97
4-Nitroaniline	ND		0.97
Fluorene	ND		0.097
4,6-Dinitro-2-methylphenol	ND		4.9
N-Nitrosodiphenylamine	ND		0.97
1,2-Diphenylhydrazine	ND		0.97
4-Bromophenyl-phenylether	ND		0.97
Hexachlorobenzene	ND		0.97
Pentachlorophenol	ND		4.9
Phenanthrene	ND		0.097
Anthracene	ND		0.097
Carbazole	ND		0.97
Di-n-butylphthalate	ND		0.97
Fluoranthene	ND		0.097

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
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Lab ID: 08-014-04
Client ID: SP-3-0808

Compound:	Results	Flags	PQL
Benzidine	ND		9.7
Pyrene	ND		0.097
Butylbenzylphthalate	ND		0.97
bis-2-Ethylhexyladipate	ND		0.97
3,3'-Dichlorobenzidine	ND		0.97
Benzo[a]anthracene	0.012		0.0097
Chrysene	ND		0.0097
bis(2-Ethylhexyl)phthalate	ND		0.97
Di-n-octylphthalate	ND		0.97
Benzo[b]fluoranthene	ND		0.0097
Benzo[k]fluoranthene	ND		0.0097
Benzo[a]pyrene	ND		0.0097
Indeno[1,2,3-cd]pyrene	ND		0.0097
Dibenz[a,h]anthracene	ND		0.0097
Benzo[g,h,i]perylene	ND		0.0097

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	36	10 - 95
Phenol-d6	36	10 - 109
Nitrobenzene-d5	51	28 - 109
2-Fluorobiphenyl	64	34 - 101
2,4,6-Tribromophenol	94	46 - 115
Terphenyl-d14	77	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

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Date Extracted: 8-5-08
 Date Analyzed: 8-8&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-05
Client ID: SP-4-0808

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.96
Pyridine	ND		0.96
Phenol	ND		0.96
Aniline	ND		0.96
bis(2-Chloroethyl)ether	ND		0.96
2-Chlorophenol	ND		0.96
1,3-Dichlorobenzene	ND		0.96
1,4-Dichlorobenzene	ND		0.96
Benzyl alcohol	ND		0.96
1,2-Dichlorobenzene	ND		0.96
2-Methylphenol (o-Cresol)	ND		0.96
bis(2-Chloroisopropyl)ether	ND		0.96
(3+4)-Methylphenol (m,p-Cresol)	ND		0.96
N-Nitroso-di-n-propylamine	ND		0.96
Hexachloroethane	ND		0.96
Nitrobenzene	ND		0.96
Isophorone	ND		0.96
2-Nitrophenol	ND		0.96
2,4-Dimethylphenol	ND		0.96
bis(2-Chloroethoxy)methane	ND		0.96
2,4-Dichlorophenol	ND		0.96
1,2,4-Trichlorobenzene	ND		0.96
Naphthalene	ND		0.096
4-Chloroaniline	ND		0.96
Hexachlorobutadiene	ND		0.96
4-Chloro-3-methylphenol	ND		0.96
2-Methylnaphthalene	ND		0.096
1-Methylnaphthalene	ND		0.096

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Lab ID: 08-014-05
 Client ID: SP-4-0808

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.96
2,4,6-Trichlorophenol	ND		0.96
2,3-Dichloroaniline	ND		0.96
2,4,5-Trichlorophenol	ND		0.96
2-Chloronaphthalene	ND		0.96
2-Nitroaniline	ND		0.96
1,4-Dinitrobenzene	ND		0.96
Dimethylphthalate	ND		0.96
1,3-Dinitrobenzene	ND		0.96
2,6-Dinitrotoluene	ND		0.96
1,2-Dinitrobenzene	ND		0.96
Acenaphthylene	ND		0.096
3-Nitroaniline	ND		0.96
2,4-Dinitrophenol	ND		4.8
Acenaphthene	ND		0.096
4-Nitrophenol	ND		0.96
2,4-Dinitrotoluene	ND		0.96
Dibenzofuran	ND		0.96
2,3,4,6-Tetrachlorophenol	ND		0.96
2,3,5,6-Tetrachlorophenol	ND		0.96
Diethylphthalate	ND		0.96
4-Chlorophenyl-phenylether	ND		0.96
4-Nitroaniline	ND		0.96
Fluorene	ND		0.096
4,6-Dinitro-2-methylphenol	ND		4.8
N-Nitrosodiphenylamine	ND		0.96
1,2-Diphenylhydrazine	ND		0.96
4-Bromophenyl-phenylether	ND		0.96
Hexachlorobenzene	ND		0.96
Pentachlorophenol	ND		4.8
Phenanthrene	0.14		0.096
Anthracene	ND		0.096
Carbazole	ND		0.96
Di-n-butylphthalate	ND		0.96
Fluoranthene	0.26		0.096

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Lab ID: 08-014-05
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Compound:	Results	Flags	PQL
Benzidine	ND		9.6
Pyrene	0.17		0.096
Butylbenzylphthalate	ND		0.96
bis-2-Ethylhexyladipate	ND		0.96
3,3'-Dichlorobenzidine	ND		0.96
Benzo[a]anthracene	0.10		0.0096
Chrysene	0.11		0.0096
bis(2-Ethylhexyl)phthalate	ND		0.96
Di-n-octylphthalate	ND		0.96
Benzo[b]fluoranthene	0.085		0.0096
Benzo[k]fluoranthene	0.021		0.0096
Benzo[a]pyrene	0.031		0.0096
Indeno[1,2,3-cd]pyrene	ND		0.0096
Dibenz[a,h]anthracene	ND		0.0096
Benzo[g,h,i]perylene	ND		0.0096

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	32	10 - 95
Phenol-d6	33	10 - 109
Nitrobenzene-d5	47	28 - 109
2-Fluorobiphenyl	61	34 - 101
2,4,6-Tribromophenol	87	46 - 115
Terphenyl-d14	73	50 - 110

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Date Extracted: 8-5-08
 Date Analyzed: 8-8&12-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-06
 Client ID: MW-040808

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.0
Pyridine	ND		1.0
Phenol	ND		1.0
Aniline	ND		1.0
bis(2-Chloroethyl)ether	ND		1.0
2-Chlorophenol	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
Benzyl alcohol	ND		1.0
1,2-Dichlorobenzene	ND		1.0
2-Methylphenol (o-Cresol)	ND		1.0
bis(2-Chloroisopropyl)ether	ND		1.0
(3+4)-Methylphenol (m,p-Cresol)	22		1.0
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		1.0
2-Nitrophenol	ND		1.0
2,4-Dimethylphenol	ND		1.0
bis(2-Chloroethoxy)methane	ND		1.0
2,4-Dichlorophenol	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	0.25		0.10
4-Chloroaniline	ND		1.0
Hexachlorobutadiene	ND		1.0
4-Chloro-3-methylphenol	ND		1.0
2-Methylnaphthalene	0.86		0.10
1-Methylnaphthalene	0.53		0.10

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Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.0
2,4,6-Trichlorophenol	ND		1.0
2,3-Dichloroaniline	ND		1.0
2,4,5-Trichlorophenol	ND		1.0
2-Chloronaphthalene	ND		1.0
2-Nitroaniline	ND		1.0
1,4-Dinitrobenzene	ND		1.0
Dimethylphthalate	ND		1.0
1,3-Dinitrobenzene	ND		1.0
2,6-Dinitrotoluene	ND		1.0
1,2-Dinitrobenzene	ND		1.0
Acenaphthylene	ND		0.10
3-Nitroaniline	ND		1.0
2,4-Dinitrophenol	ND		5.0
Acenaphthene	2.4		1.0
4-Nitrophenol	ND		1.0
2,4-Dinitrotoluene	ND		1.0
Dibenzofuran	1.1		1.0
2,3,4,6-Tetrachlorophenol	ND		1.0
2,3,5,6-Tetrachlorophenol	ND		1.0
Diethylphthalate	ND		1.0
4-Chlorophenyl-phenylether	ND		1.0
4-Nitroaniline	ND		1.0
Fluorene	1.2		1.0
4,6-Dinitro-2-methylphenol	ND		5.0
N-Nitrosodiphenylamine	ND		1.0
1,2-Diphenylhydrazine	ND		1.0
4-Bromophenyl-phenylether	ND		1.0
Hexachlorobenzene	ND		1.0
Pentachlorophenol	ND		5.0
Phenanthrene	1.5		1.0
Anthracene	ND		0.10
Carbazole	ND		1.0
Di-n-butylphthalate	ND		1.0
Fluoranthene	0.26		0.10

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Compound:	Results	Flags	PQL
Benzidine	ND		10
Pyrene	0.18		0.10
Butylbenzylphthalate	ND		1.0
bis-2-Ethylhexyladipate	ND		1.0
3,3'-Dichlorobenzidine	ND		1.0
Benzo[a]anthracene	0.026		0.010
Chrysene	0.019		0.010
bis(2-Ethylhexyl)phthalate	ND		1.0
Di-n-octylphthalate	ND		1.0
Benzo[b]fluoranthene	0.014		0.010
Benzo[k]fluoranthene	ND		0.010
Benzo[a]pyrene	ND		0.010
Indeno[1,2,3-cd]pyrene	ND		0.010
Dibenz[a,h]anthracene	ND		0.010
Benzo[g,h,i]perylene	ND		0.010

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	29	10 - 95
Phenol-d6	27	10 - 109
Nitrobenzene-d5	44	28 - 109
2-Fluorobiphenyl	60	34 - 101
2,4,6-Tribromophenol	91	46 - 115
Terphenyl-d14	73	50 - 110

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Date Extracted: 8-5-08
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 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-07
 Client ID: **AN-MW-02-0708**

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.97
Pyridine	ND		0.97
Phenol	ND		0.97
Aniline	ND		0.97
bis(2-Chloroethyl)ether	ND		0.97
2-Chlorophenol	ND		0.97
1,3-Dichlorobenzene	ND		0.97
1,4-Dichlorobenzene	ND		0.97
Benzyl alcohol	ND		0.97
1,2-Dichlorobenzene	ND		0.97
2-Methylphenol (o-Cresol)	ND		0.97
bis(2-Chloroisopropyl)ether	ND		0.97
(3+4)-Methylphenol (m,p-Cresol)	ND		0.97
N-Nitroso-di-n-propylamine	ND		0.97
Hexachloroethane	ND		0.97
Nitrobenzene	ND		0.97
Isophorone	ND		0.97
2-Nitrophenol	ND		0.97
2,4-Dimethylphenol	ND		0.97
bis(2-Chloroethoxy)methane	ND		0.97
2,4-Dichlorophenol	ND		0.97
1,2,4-Trichlorobenzene	ND		0.97
Naphthalene	0.25		0.097
4-Chloroaniline	ND		0.97
Hexachlorobutadiene	ND		0.97
4-Chloro-3-methylphenol	ND		0.97
2-Methylnaphthalene	ND		0.097
1-Methylnaphthalene	ND		0.097

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Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.97
2,4,6-Trichlorophenol	ND		0.97
2,3-Dichloroaniline	ND		0.97
2,4,5-Trichlorophenol	ND		0.97
2-Chloronaphthalene	ND		0.97
2-Nitroaniline	ND		0.97
1,4-Dinitrobenzene	ND		0.97
Dimethylphthalate	ND		0.97
1,3-Dinitrobenzene	ND		0.97
2,6-Dinitrotoluene	ND		0.97
1,2-Dinitrobenzene	ND		0.97
Acenaphthylene	ND		0.097
3-Nitroaniline	ND		0.97
2,4-Dinitrophenol	ND		4.8
Acenaphthene	ND		0.097
4-Nitrophenol	ND		0.97
2,4-Dinitrotoluene	ND		0.97
Dibenzofuran	ND		0.97
2,3,4,6-Tetrachlorophenol	ND		0.97
2,3,5,6-Tetrachlorophenol	ND		0.97
Diethylphthalate	ND		0.97
4-Chlorophenyl-phenylether	ND		0.97
4-Nitroaniline	ND		0.97
Fluorene	ND		0.097
4,6-Dinitro-2-methylphenol	ND		4.8
N-Nitrosodiphenylamine	ND		0.97
1,2-Diphenylhydrazine	ND		0.97
4-Bromophenyl-phenylether	ND		0.97
Hexachlorobenzene	ND		0.97
Pentachlorophenol	ND		4.8
Phenanthrene	0.13		0.097
Anthracene	ND		0.097
Carbazole	ND		0.97
Di-n-butylphthalate	ND		0.97
Fluoranthene	0.19		0.097

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Compound:	Results	Flags	PQL
Benzidine	ND		9.7
Pyrene	0.12		0.097
Butylbenzylphthalate	ND		0.97
bis-2-Ethylhexyladipate	ND		0.97
3,3'-Dichlorobenzidine	ND		0.97
Benzo[a]anthracene	0.087		0.0097
Chrysene	0.099		0.0097
bis(2-Ethylhexyl)phthalate	ND		0.97
Di-n-octylphthalate	ND		0.97
Benzo[b]fluoranthene	0.075		0.0097
Benzo[k]fluoranthene	0.018		0.0097
Benzo[a]pyrene	0.025		0.0097
Indeno[1,2,3-cd]pyrene	ND		0.0097
Dibenz[a,h]anthracene	ND		0.0097
Benzo[g,h,i]perylene	ND		0.0097

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	35	10 - 95
Phenol-d6	36	10 - 109
Nitrobenzene-d5	55	28 - 109
2-Fluorobiphenyl	64	34 - 101
2,4,6-Tribromophenol	88	46 - 115
Terphenyl-d14	71	50 - 110

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Date Extracted: 8-5-08
 Date Analyzed: 8-8&12-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-08
 Client ID: **AN-MW-01-0708**

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.1
Pyridine	ND		1.1
Phenol	ND		1.1
Aniline	ND		1.1
bis(2-Chloroethyl)ether	ND		1.1
2-Chlorophenol	ND		1.1
1,3-Dichlorobenzene	ND		1.1
1,4-Dichlorobenzene	ND		1.1
Benzyl alcohol	ND		1.1
1,2-Dichlorobenzene	ND		1.1
2-Methylphenol (o-Cresol)	ND		1.1
bis(2-Chloroisopropyl)ether	ND		1.1
(3+4)-Methylphenol (m,p-Cresol)	ND		1.1
N-Nitroso-di-n-propylamine	ND		1.1
Hexachloroethane	ND		1.1
Nitrobenzene	ND		1.1
Isophorone	ND		1.1
2-Nitrophenol	ND		1.1
2,4-Dimethylphenol	ND		1.1
bis(2-Chloroethoxy)methane	ND		1.1
2,4-Dichlorophenol	ND		1.1
1,2,4-Trichlorobenzene	ND		1.1
Naphthalene	ND		0.11
4-Chloroaniline	ND		1.1
Hexachlorobutadiene	ND		1.1
4-Chloro-3-methylphenol	ND		1.1
2-Methylnaphthalene	ND		0.11
1-Methylnaphthalene	ND		0.11

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Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.1
2,4,6-Trichlorophenol	ND		1.1
2,3-Dichloroaniline	ND		1.1
2,4,5-Trichlorophenol	ND		1.1
2-Chloronaphthalene	ND		1.1
2-Nitroaniline	ND		1.1
1,4-Dinitrobenzene	ND		1.1
Dimethylphthalate	ND		1.1
1,3-Dinitrobenzene	ND		1.1
2,6-Dinitrotoluene	ND		1.1
1,2-Dinitrobenzene	ND		1.1
Acenaphthylene	ND		0.11
3-Nitroaniline	ND		1.1
2,4-Dinitrophenol	ND		5.5
Acenaphthene	ND		0.11
4-Nitrophenol	ND		1.1
2,4-Dinitrotoluene	ND		1.1
Dibenzofuran	ND		1.1
2,3,4,6-Tetrachlorophenol	ND		1.1
2,3,5,6-Tetrachlorophenol	ND		1.1
Diethylphthalate	ND		1.1
4-Chlorophenyl-phenylether	ND		1.1
4-Nitroaniline	ND		1.1
Fluorene	ND		0.11
4,6-Dinitro-2-methylphenol	ND		5.5
N-Nitrosodiphenylamine	ND		1.1
1,2-Diphenylhydrazine	ND		1.1
4-Bromophenyl-phenylether	ND		1.1
Hexachlorobenzene	ND		1.1
Pentachlorophenol	ND		5.5
Phenanthrene	ND		0.11
Anthracene	ND		0.11
Carbazole	ND		1.1
Di-n-butylphthalate	ND		1.1
Fluoranthene	ND		0.11

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Compound:	Results	Flags	PQL
Benzidine	ND		11
Pyrene	ND		0.11
Butylbenzylphthalate	ND		1.1
bis-2-Ethylhexyladipate	ND		1.1
3,3'-Dichlorobenzidine	ND		1.1
Benzo[a]anthracene	0.013		0.011
Chrysene	ND		0.011
bis(2-Ethylhexyl)phthalate	ND		1.1
Di-n-octylphthalate	ND		1.1
Benzo[b]fluoranthene	ND		0.011
Benzo[k]fluoranthene	ND		0.011
Benzo[a]pyrene	ND		0.011
Indeno[1,2,3-cd]pyrene	ND		0.011
Dibenz[a,h]anthracene	ND		0.011
Benzo[g,h,i]perylene	ND		0.011

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	27	10 - 95
Phenol-d6	30	10 - 109
Nitrobenzene-d5	41	28 - 109
2-Fluorobiphenyl	53	34 - 101
2,4,6-Tribromophenol	86	46 - 115
Terphenyl-d14	74	50 - 110

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Date Extracted: 8-5-08
 Date Analyzed: 8-8&12-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-09
 Client ID: MW-06-0708

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.0
Pyridine	ND		1.0
Phenol	ND		1.0
Aniline	ND		1.0
bis(2-Chloroethyl)ether	ND		1.0
2-Chlorophenol	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
Benzyl alcohol	ND		1.0
1,2-Dichlorobenzene	ND		1.0
2-Methylphenol (o-Cresol)	ND		1.0
bis(2-Chloroisopropyl)ether	ND		1.0
(3+4)-Methylphenol (m,p-Cresol)	4.1		1.0
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		1.0
2-Nitrophenol	ND		1.0
2,4-Dimethylphenol	ND		1.0
bis(2-Chloroethoxy)methane	ND		1.0
2,4-Dichlorophenol	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	ND		0.10
4-Chloroaniline	ND		1.0
Hexachlorobutadiene	ND		1.0
4-Chloro-3-methylphenol	ND		1.0
2-Methylnaphthalene	ND		0.10
1-Methylnaphthalene	ND		0.10

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Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.0
2,4,6-Trichlorophenol	ND		1.0
2,3-Dichloroaniline	ND		1.0
2,4,5-Trichlorophenol	ND		1.0
2-Chloronaphthalene	ND		1.0
2-Nitroaniline	ND		1.0
1,4-Dinitrobenzene	ND		1.0
Dimethylphthalate	ND		1.0
1,3-Dinitrobenzene	ND		1.0
2,6-Dinitrotoluene	ND		1.0
1,2-Dinitrobenzene	ND		1.0
Acenaphthylene	ND		0.10
3-Nitroaniline	ND		1.0
2,4-Dinitrophenol	ND		5.0
Acenaphthene	0.17		0.10
4-Nitrophenol	ND		1.0
2,4-Dinitrotoluene	ND		1.0
Dibenzofuran	ND		1.0
2,3,4,6-Tetrachlorophenol	ND		1.0
2,3,5,6-Tetrachlorophenol	ND		1.0
Diethylphthalate	ND		1.0
4-Chlorophenyl-phenylether	ND		1.0
4-Nitroaniline	ND		1.0
Fluorene	ND		0.10
4,6-Dinitro-2-methylphenol	ND		5.0
N-Nitrosodiphenylamine	ND		1.0
1,2-Diphenylhydrazine	ND		1.0
4-Bromophenyl-phenylether	ND		1.0
Hexachlorobenzene	ND		1.0
Pentachlorophenol	ND		5.0
Phenanthrene	ND		0.10
Anthracene	ND		0.10
Carbazole	ND		1.0
Di-n-butylphthalate	ND		1.0
Fluoranthene	ND		0.10

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Lab ID: 08-014-09
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Compound:	Results	Flags	PQL
Benzidine	ND		10
Pyrene	ND		0.10
Butylbenzylphthalate	ND		1.0
bis-2-Ethylhexyladipate	ND		1.0
3,3'-Dichlorobenzidine	ND		1.0
Benzo[a]anthracene	0.011		0.010
Chrysene	ND		0.010
bis(2-Ethylhexyl)phthalate	ND		1.0
Di-n-octylphthalate	ND		1.0
Benzo[b]fluoranthene	ND		0.010
Benzo[k]fluoranthene	ND		0.010
Benzo[a]pyrene	ND		0.010
Indeno[1,2,3-cd]pyrene	ND		0.010
Dibenz[a,h]anthracene	ND		0.010
Benzo[g,h,i]perylene	ND		0.010

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	44	10 - 95
Phenol-d6	36	10 - 109
Nitrobenzene-d5	66	28 - 109
2-Fluorobiphenyl	69	34 - 101
2,4,6-Tribromophenol	94	46 - 115
Terphenyl-d14	79	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 1 of 3

Date Extracted: 8-5-08
 Date Analyzed: 8-5&8-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0805W1

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		1.0
Pyridine	ND		1.0
Phenol	ND		1.0
Aniline	ND		1.0
bis(2-Chloroethyl)ether	ND		1.0
2-Chlorophenol	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
Benzyl alcohol	ND		1.0
1,2-Dichlorobenzene	ND		1.0
2-Methylphenol (o-Cresol)	ND		1.0
bis(2-Chloroisopropyl)ether	ND		1.0
(3+4)-Methylphenol (m,p-Cresol)	ND		1.0
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		1.0
2-Nitrophenol	ND		1.0
2,4-Dimethylphenol	ND		1.0
bis(2-Chloroethoxy)methane	ND		1.0
2,4-Dichlorophenol	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	ND		0.10
4-Chloroaniline	ND		1.0
Hexachlorobutadiene	ND		1.0
4-Chloro-3-methylphenol	ND		1.0
2-Methylnaphthalene	ND		0.10
1-Methylnaphthalene	ND		0.10

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 2 of 3

Lab ID: MB0805W1

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.0
2,4,6-Trichlorophenol	ND		1.0
2,3-Dichloroaniline	ND		1.0
2,4,5-Trichlorophenol	ND		1.0
2-Chloronaphthalene	ND		1.0
2-Nitroaniline	ND		1.0
1,4-Dinitrobenzene	ND		1.0
Dimethylphthalate	ND		1.0
1,3-Dinitrobenzene	ND		1.0
2,6-Dinitrotoluene	ND		1.0
1,2-Dinitrobenzene	ND		1.0
Acenaphthylene	ND		0.10
3-Nitroaniline	ND		1.0
2,4-Dinitrophenol	ND		5.0
Acenaphthene	ND		0.10
4-Nitrophenol	ND		1.0
2,4-Dinitrotoluene	ND		1.0
Dibenzofuran	ND		1.0
2,3,4,6-Tetrachlorophenol	ND		1.0
2,3,5,6-Tetrachlorophenol	ND		1.0
Diethylphthalate	ND		1.0
4-Chlorophenyl-phenylether	ND		1.0
4-Nitroaniline	ND		1.0
Fluorene	ND		0.10
4,6-Dinitro-2-methylphenol	ND		5.0
N-Nitrosodiphenylamine	ND		1.0
1,2-Diphenylhydrazine	ND		1.0
4-Bromophenyl-phenylether	ND		1.0
Hexachlorobenzene	ND		1.0
Pentachlorophenol	ND		5.0
Phenanthrene	ND		0.10
Anthracene	ND		0.10
Carbazole	ND		1.0
Di-n-butylphthalate	ND		1.0
Fluoranthene	ND		0.10

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 3 of 3

Lab ID: MB0805W1

Compound:	Results	Flags	PQL
Benzidine	ND		10
Pyrene	ND		0.10
Butylbenzylphthalate	ND		1.0
bis-2-Ethylhexyladipate	ND		1.0
3,3'-Dichlorobenzidine	ND		1.0
Benzo[a]anthracene	ND		0.010
Chrysene	ND		0.010
bis(2-Ethylhexyl)phthalate	ND		1.0
Di-n-octylphthalate	ND		1.0
Benzo[b]fluoranthene	ND		0.010
Benzo[k]fluoranthene	ND		0.010
Benzo[a]pyrene	ND		0.010
Indeno[1,2,3-cd]pyrene	ND		0.010
Dibenz[a,h]anthracene	ND		0.010
Benzo[g,h,i]perylene	ND		0.010

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	37	10 - 95
Phenol-d6	30	10 - 109
Nitrobenzene-d5	64	28 - 109
2-Fluorobiphenyl	60	34 - 101
2,4,6-Tribromophenol	76	46 - 115
Terphenyl-d14	78	50 - 110

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Date Extracted: 8-5-08
 Date Analyzed: 8-5-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: SB0805W1

Compound:	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
Phenol	40.0	16.8	42	14.7	37	17-64	
2-Chlorophenol	40.0	28.5	71	25.2	63	40-94	
1,4-Dichlorobenzene	20.0	11.7	58	10.3	52	28-85	
N-Nitroso-di-n-propylamine	20.0	15.7	79	13.4	67	36-99	
1,2,4-Trichlorobenzene	20.0	13.6	68	11.6	58	31-85	
4-Chloro-3-methylphenol	40.0	34.2	86	32.8	82	52-98	
Acenaphthene	20.0	14.6	73	13.7	69	38-89	
2,4-Dinitrotoluene	20.0	16.8	84	16.2	81	45-122	
4-Nitrophenol	40.0	19.0	47	17.8	44	24-116	
Pentachlorophenol	40.0	32.5	81	32.3	81	37-130	
Pyrene	20.0	16.5	82	16.0	80	57-106	

	RPD	RPD Limits	Flags
Phenol	13	30	
2-Chlorophenol	12	32	
1,4-Dichlorobenzene	12	36	
N-Nitroso-di-n-propylamine	16	31	
1,2,4-Trichlorobenzene	17	35	
4-Chloro-3-methylphenol	4	26	
Acenaphthene	6	27	
2,4-Dinitrotoluene	4	30	
4-Nitrophenol	6	30	
Pentachlorophenol	0	30	
Pyrene	3	15	

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW05-0808					
Laboratory ID:	08-014-01					
Aroclor 1016	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.050	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	59	35-135				
Client ID:	SP-1-0808					
Laboratory ID:	08-014-02					
Aroclor 1016	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.049	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	96	35-135				
Client ID:	SP-2-0808					
Laboratory ID:	08-014-03					
Aroclor 1016	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.049	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	108	35-135				

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SP-3-0808					
Laboratory ID:	08-014-04					
Aroclor 1016	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.051	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	102	35-135				
Client ID:	SP-4-0808					
Laboratory ID:	08-014-05					
Aroclor 1016	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.051	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	106	35-135				
Client ID:	MW-040808					
Laboratory ID:	08-014-06					
Aroclor 1016	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.051	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	106	35-135				

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		AN-MW-02-0708				
Laboratory ID:		08-014-07				
Aroclor 1016	ND	0.048	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.048	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.048	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.048	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.048	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.048	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.048	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.048	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.048	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	106	35-135				
Client ID:		AN-MW-01-0708				
Laboratory ID:		08-014-08				
Aroclor 1016	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.049	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.049	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	105	35-135				
Client ID:		MW-06-0708				
Laboratory ID:		08-014-09				
Aroclor 1016	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.051	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.051	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	77	35-135				

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0805W1					
Aroclor 1016	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1221	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1232	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1242	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1248	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1254	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1260	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1262	ND	0.050	EPA 8082	8-5-08	8-11-08	X
Aroclor 1268	ND	0.050	EPA 8082	8-5-08	8-11-08	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	96	35-135				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0805W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.444	0.483	0.500	0.500	N/A	89	97	61-114	8	12	
<i>Surrogate:</i>											
<i>DCB</i>						84	90	35-135			

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

VOLATILES by EPA 8260B

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Date Extracted: 8-6-08
 Date Analyzed: 8-6-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-01
Client ID: MW05-0808

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	6.2		5.0
Iodomethane	ND		1.0
Carbon Disulfide	1.3		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

VOLATILES by EPA 8260B

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Lab ID: 08-014-01
 Client ID: MW05-0808

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	8.4		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	79		71-126
Toluene-d8	77		76-116
4-Bromofluorobenzene	75		70-123

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

VOLATILES by EPA 8260B

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Date Extracted: 8-6-08
 Date Analyzed: 8-6-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-02
 Client ID: SP-1-0808

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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Lab ID: 08-014-02
 Client ID: SP-1-0808

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	84	71-126
Toluene-d8	79	76-116
4-Bromofluorobenzene	80	70-123

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 Date Analyzed: 8-6-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-03
 Client ID: SP-2-0808

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	85	71-126
Toluene-d8	77	76-116
4-Bromofluorobenzene	80	70-123

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 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-04
 Client ID: SP-3-0808

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	87	71-126
Toluene-d8	79	76-116
4-Bromofluorobenzene	81	70-123

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 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-05
 Client ID: SP-4-0808

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	0.27		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	84	71-126
Toluene-d8	79	76-116
4-Bromofluorobenzene	79	70-123

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Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-06
Client ID: MW-040808

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	0.44		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	0.78		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	81	71-126
Toluene-d8	78	76-116
4-Bromofluorobenzene	80	70-123

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Date Extracted: 8-6-08
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Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-07
 Client ID: AN-MW-02-0708

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	0.25		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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 Client ID: AN-MW-02-0708

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	84	71-126
Toluene-d8	79	76-116
4-Bromofluorobenzene	79	70-123

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Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-08
 Client ID: AN-MW-01-0708

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	0.30		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: August 21, 2008
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 Project: 10654

VOLATILES by EPA 8260B

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Lab ID: 08-014-08
 Client ID: AN-MW-01-0708

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	83	71-126
Toluene-d8	79	76-116
4-Bromofluorobenzene	80	70-123

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
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 Project: 10654

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Date Extracted: 8-6-08
 Date Analyzed: 8-6-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-09
 Client ID: MW-06-0708

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: August 21, 2008
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VOLATILES by EPA 8260B

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Lab ID: 08-014-09
 Client ID: MW-06-0708

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	5.6		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	81	71-126
Toluene-d8	80	76-116
4-Bromofluorobenzene	79	70-123

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

VOLATILES by EPA 8260B

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Date Extracted: 8-6-08
 Date Analyzed: 8-6-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-10
 Client ID: Trip blank

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
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Lab ID: 08-014-10
 Client ID: Trip blank

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	82	71-126
Toluene-d8	78	76-116
4-Bromofluorobenzene	79	70-123

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

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Date Extracted: 8-6-08
 Date Analyzed: 8-6-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0806W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
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VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

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Lab ID: MB0806W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	78	71-126
Toluene-d8	79	76-116
4-Bromofluorobenzene	75	70-123

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 8-6-08
 Date Analyzed: 8-6-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0806W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	10.0	10.4	104	8.81	88	70-130	
Benzene	10.0	10.7	107	9.15	92	70-130	
Trichloroethene	10.0	9.72	97	8.32	83	70-116	
Toluene	10.0	10.2	102	8.96	90	76-119	
Chlorobenzene	10.0	9.50	95	8.45	85	77-112	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	16	20	
Benzene	16	16	
Trichloroethene	16	16	
Toluene	13	15	
Chlorobenzene	12	15	

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**DISSOLVED METALS
 EPA 6020/7470A**

Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-01
 Client ID: MW05-0808

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	4.2	1.0
Barium	6020	73	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**DISSOLVED METALS
 EPA 6020/7470A**

Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-06
 Client ID: MW-040808

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	1.6	1.0
Barium	6020	120	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	4.5	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	8.6	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

**DISSOLVED METALS
EPA 6020/7470A**

Date Analyzed: 8-11&12-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-014-07
Client ID: AN-MW-02-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Barium	6020	57	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**DISSOLVED METALS
 EPA 6020/7470A**

Date Analyzed: 8-11&12-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 08-014-08
 Client ID: AN-MW-01-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	3.0
Barium	6020	170	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	7.4	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	15	8.0
Selenium	6020	ND	6.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**DISSOLVED METALS
 EPA 6020/7470A**

Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-09
 Client ID: MW-06-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.4
Barium	6020	54	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

**DISSOLVED METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 8-7&8-08
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0807W1

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Beryllium	6020	ND	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	2.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

**DISSOLVED METALS
EPA 7470A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-12-08
Date Analyzed: 8-12-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0812W1

Analyte	Method	Result	PQL
Mercury	7470A	ND	0.125

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**DISSOLVED METALS
 EPA 6020
 DUPLICATE QUALITY CONTROL**

Date Analyzed: 8-7&8-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	1.0	
Beryllium	39.6	39.7	0	50	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	6.84	NA	3.0	
Lead	ND	ND	NA	1.0	
Nickel	ND	ND	NA	8.0	
Selenium	ND	ND	NA	5.0	
Silver	ND	ND	NA	8.0	
Thallium	ND	ND	NA	2.0	
Zinc	ND	ND	NA	50	

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

**DISSOLVED METALS
EPA 7470A
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-12-08
Date Analyzed: 8-12-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-014-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.125	

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**DISSOLVED METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Analyzed: 8-7&8-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	100	100	98.1	98	2	
Arsenic	100	93.4	93	93.3	93	0	
Beryllium	100	138	98	130	91	6	
Cadmium	100	93.8	94	91.3	91	3	
Chromium	100	103	103	102	102	1	
Copper	100	97.3	97	96.2	96	1	
Lead	100	90.2	90	90.3	90	0	
Nickel	100	102	102	102.0	102	0	
Selenium	100	91.6	92	87.7	88	4	
Silver	100	87.9	88	82.1	82	7	
Thallium	100	92.9	93	91.5	91	2	
Zinc	100	87.3	87	84.8	85	3	

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

**DISSOLVED METALS
EPA 7470A
MS/MSD QUALITY CONTROL**

Date Extracted: 8-12-08
Date Analyzed: 8-12-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-014-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	12.5	12.0	96	12.1	97	1	

Date of Report: August 21, 2008
Samples Submitted: August 2, 2008
Laboratory Reference: 0808-014
Project: 10654

**TOTAL DISSOLVED SOLIDS
EPA 160.1**

Date Analyzed: 8-7-08

Matrix: Water
Units: mg/L

Client ID	Lab ID	Result	PQL
MW05-0808	08-014-01	4200	13
SP-1-0808	08-014-02	26000	13
SP-2-0808	08-014-03	28000	13
SP-3-0808	08-014-04	30000	13
SP-4-0808	08-014-05	28000	13
MW-040808	08-014-06	5300	13
AN-MW-02-0708	08-014-07	12000	13
AN-MW-01-0708	08-014-08	18000	13
MW-06-0708	08-014-09	1600	13

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL DISSOLVED SOLIDS
 EPA 160.1
 QUALITY CONTROL**

Date Analyzed: 8-7-08

Matrix: Water
 Units: mg/L

METHOD BLANK QUALITY CONTROL

Lab ID	Result	PQL
MB0805W1	ND	13

SPIKE BLANK QUALITY CONTROL

Lab ID	Result	Spiked Amount	Percent Recovery	Control Limit	Flag
SB0805W1	460	500	92	79-112	

DUPLICATE QUALITY CONTROL

Lab ID	Sample Result	Duplicate Result	RPD	Control Limit	Flag
08-014-02	25900	25400	2	16	

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-01
 Client ID: MW05-0808

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	5.1	1.0
Barium	6020	74	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	5.8	3.0
Lead	6020	2.4	1.0
Mercury	7470A	ND	0.125
Nickel	6020	8.7	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-02
 Client ID: SP-1-0808

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Barium	6020	420	130
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	9.3	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	24	8.0
Selenium	6020	ND	8.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-03
 Client ID: SP-2-0808

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	2.2
Barium	6020	190	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	11	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	20	8.0
Selenium	6020	ND	10
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-04
 Client ID: SP-3-0808

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.6
Barium	6020	92	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	14	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	23	8.0
Selenium	6020	ND	13
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-05
 Client ID: SP-4-0808

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	2.6
Barium	6020	130	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	9.8	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	23	8.0
Selenium	6020	ND	12
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-06
 Client ID: MW-040808

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	1.5	1.0
Barium	6020	120	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-07
 Client ID: AN-MW-02-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.8
Barium	6020	57	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-11&12-08

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: 08-014-08
 Client ID: AN-MW-01-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	3.0
Barium	6020	170	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	20	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	15	8.0
Selenium	6020	ND	6.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-11&12-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-014-09
 Client ID: MW-06-0708

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.4
Barium	6020	ND	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-7,8&11-08

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: MB0807W1&MB0812W1

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Beryllium	6020	ND	50
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	2.0
Zinc	6020	ND	50

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-7,8&11-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	1.0	
Beryllium	39.6	39.7	0	50	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	6.84	NA	3.0	
Lead	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.125	
Nickel	ND	ND	NA	8.0	
Selenium	ND	ND	NA	5.0	
Silver	ND	ND	NA	8.0	
Thallium	ND	ND	NA	2.0	
Zinc	ND	ND	NA	50	

Date of Report: August 21, 2008
 Samples Submitted: August 2, 2008
 Laboratory Reference: 0808-014
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-7&11-08
 Date Analyzed: 8-7,8&11-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-271-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	100	100	98.1	98	2	
Arsenic	100	93.4	93	93.3	93	0	
Beryllium	100	138	98	130	91	6	
Cadmium	100	93.8	94	91.3	91	3	
Chromium	100	103	103	102	102	1	
Copper	100	97.3	97	96.2	96	1	
Lead	100	90.2	90	90.3	90	0	
Mercury	12.5	11.3	90	11.3	91	0	
Nickel	100	102	102	102.0	102	0	
Selenium	100	91.6	92	87.7	88	4	
Silver	100	87.9	88	82.1	82	7	
Thallium	100	92.9	93	91.5	91	2	
Zinc	100	87.3	87	84.8	85	3	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 August 2008

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 10654
ARI Job No: NI95

Dear David:

Please find enclosed the original Chain-of-Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. accepted nine water samples on August 4, 2008. The samples were received intact. The samples were analyzed for salinity as requested.

There were no problems with these analyses.

An electronic copy of these reports will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

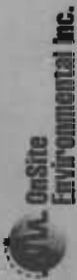
ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file NI95

MDH/mdh



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Subcontract Laboratory: Analytical Resources, Inc.

Attention: Mark Harris

4611 S 134th Pl, Ste. 100 Tukwila, WA 98168

Phone Number: (206) 695-6200

Date/Time: _____

NI 95

Laboratory Reference #: **08-014**

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: **10654**

Project Name: _____

Turnaround Request:

1 Day 2 Day 3 Day

Standard

Other: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis
MW-05-0808		8/1/08	0900	W	1	Salinity
SP-1-0808			1100			
SP-2-0808			1145			
SP-3-0808			1300			
SP-4-0808			1415			
MW-04-0808			1645			
AN-mw-02-0708		7/31/08	945			
AN-mw-01-0708			1445			
MW-06-0708			1645			
	Signature	Date	Time	Comments/Special Instructions		
Relinquished by:	<i>[Signature]</i>	8/1/08	1340			
Received by:	<i>[Signature]</i>	08/01/08	1345			
Relinquished by:	<i>[Signature]</i>	08/01/08	1501			
Received by:	<i>[Signature]</i>	8/01/08	1501			
Relinquished by:						
Received by:						

METHOD BLANK RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank
Conductivity	EPA 120.1	08/12/08	umhos/cm	< 1.00 U
Salinity	SM 2520.B	08/12/08	ppt	< 0.10 U

SAMPLE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized
Reported: 08/19/08

A handwritten signature in black ink, appearing to be 'BZ' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 08/01/08
Date Received: 08/04/08

Client ID: MW-05-0808
ARI ID: 08-18882 NI95A

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	5,680
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	3.00

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 08/01/08
Date Received: 08/04/08

Client ID: SP-1-0808
ARI ID: 08-18883 NI95B

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	33,500
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	20.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 08/01/08
Date Received: 08/04/08


Client ID: SP-2-0808
ARI ID: 08-18884 NI95C

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	36,200
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	22.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 08/01/08
Date Received: 08/04/08


Client ID: SP-3-0808
ARI ID: 08-18885 NI95D

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	38,500
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	24.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 08/01/08
Date Received: 08/04/08


Client ID: SP-4-0808
ARI ID: 08-18886 NI95E

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	37,000
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	23.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 08/01/08
Date Received: 08/04/08

Client ID: MW-04-0808
ARI ID: 08-18887 NI95F

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	8,270
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	4.60

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 07/31/08
Date Received: 08/04/08


Client ID: AN-MW-02-0708
ARI ID: 08-18888 NI95G

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	16,900
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	9.80

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 07/31/08
Date Received: 08/04/08

Client ID: AN-MW-01-0708
ARI ID: 08-18889 NI95H

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	25,000
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	15.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 07/31/08
Date Received: 08/04/08

Client ID: MW-06-0708
ARI ID: 08-18890 NI95I

Analyte	Date Batch	Method	Units	RL	Sample
Conductivity	08/12/08 081208#1	EPA 120.1	umhos/cm	1.00	2,700
Salinity	08/12/08 081208#1	SM 2520.B	ppt	0.10	1.40

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.




Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: 08/01/08
Date Received: 08/04/08

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: NI95A Client ID: MW-05-0808						
Conductivity	EPA 120.1	08/12/08	umhos/cm	5,680	5,650	0.5%
Salinity	SM 2520.B	08/12/08	ppt	3.00	3.00	0.0%

LAB CONTROL RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.




Matrix: Water
Data Release Authorized: 
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	LCS	Spike Added	Recovery
Salinity	SM 2520.B	08/12/08	ppt	34.2	35.0	97.7%

STANDARD REFERENCE RESULTS-CONVENTIONALS
NI95-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/19/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Conductivity Ricca #3193	EPA 120.1	08/12/08	umhos/cm	1,010	1,000	101.0%



Chain of Custody

OnSite Environmental Inc.
 Phone: (425) 863-3681 • Fax: (425) 865-4003

Laboratory Number: 08 · 014

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Day 3 Day
 Standard (7 working days)
 (TPH analysis 5 working days)
 (other)

Company: Geomatrix
 Project Number: 10654
 Project Name: Custom Plywood
 Project Manager: Kathleen Goodman
 Sampled by: Chris Brown

Requested Analysis

Requested Analysis	NWTPH-HCID	NWTPH-GX/RTK	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VOCs 5035	Dissolved Metals	TDS	Salinity	Total Metals	% Moisture	
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
1	MW05-0808	8/1/08	0900	w	13
2	SP1-0808	1100			13
3	SP2-0808	1145			12
4	SP3-0808	1300			12
5	SP4-0808	1415			12
6	MW-040808	1645			13
7	AN-MW-02-0708	7/31/08	945	w	13
8	AN-MW-01-0708	1445			13
9	MW-06-0708	1645			13
10	Trip blank	-	-		8

Signature	Company	Date	Time
	Geomatrix	8/2/08	0830
	Geomatrix	8/2/08	830

Comments/Special Instructions:
 *TPH-DX Decant method
 *Metals: Sb, As, Ba, Cd, Cs, Pb, Cu, Hg, Ni, Se, Ag, Tl, Zn
 *MW samples field filtered, SP samples not field filtered



Memo

To: Kathleen Goodman Project: 10654
From: Crystal Neurby cc: Project File
Tel:
Fax:
Date: May 14, 2009

Subject: Former Custom Plywood Plant, Water Sampling Summary Data Quality Review – SDGs 0904-128

This memorandum presents a summary data quality review for analyses of eight primary groundwater samples and one field duplicate collected on April 15 and 16, 2009. The samples were submitted to OnSite Environmental Inc. (OnSite), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Redmond, Washington. The samples were analyzed for the following analytes:

- Total Petroleum Hydrocarbons (TPH) as Diesel extended by Ecology Method NWTPH-Dx
- Semivolatile Organic Compounds (SVOCs) by EPA Method 8270D with Polyaromatic Hydrocarbons (PAHs) by EPA Method 8270D with select ion monitoring (SIM)
- Polychlorinated biphenyls (PCBs) by EPA Method 8082.
- Total Metals (EPA Priority Pollution 13 list) by EPA Method 6020 with mercury analyzed using EPA Method 7470A.
- Total dissolved solids (TDS) by EPA Method 160.1.

The samples associated with this sample delivery group (SDG) and a summary of the data quality review are presented in Table 1, attached.

The samples were received within the acceptable temperature range of $4 \pm 2^{\circ}\text{C}$ and there were no sample discrepancies noted by the laboratory upon receipt.

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Final Quality Assurance Project Plan (QAPP), Attachment A2 of Appendix A of the Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, (AMEC, 2008). The most current control limits provided by the laboratory were used to evaluate the quality control data.

Hold times, method blanks, blank spike (BS) and blank spike duplicate (BSD), matrix spike/matrix spike duplicate (MS/MSD) results, surrogate recoveries, laboratory duplicate results, field duplicate results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in

general accordance with the definitions and use of qualifying flags outlined in EPA documents (EPA, 1999 and 2004).

Samples were analyzed for TPH as diesel, SVOCs and PAHs, PCBs, total metals, and TDS by the methods identified in the introduction to this report and were evaluated for the following criteria.

1. Holding Times – Acceptable
2. Blanks – Acceptable
3. BS/BSD – Acceptable except as noted:
 - The laboratory did not report blank spike results if acceptable MS/MSD results were reported. Therefore, BS/BSD results were not reported for total metals analyses. The BS/BSD results reported for the remaining analyses were acceptable.
4. MS/MSD – Acceptable
5. Surrogates – Acceptable
6. Laboratory Duplicates – Acceptable
7. Field Duplicates – Acceptable

One field duplicate was collected with sample GMX-MW-03-0409 and identified as sample GMX-MW-103-0409. As shown in the table below, the field duplicate relative percent differences (RPD) were acceptable.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (µg/L)	Duplicate Result (µg/L)	RPD (%)
GMX-MW-03-0409/GMX-MW-103-0409	naphthalene	0.40	0.37	8
	acenaphthene	3.4	3.1	9
	fluorene	1.6	1.4	13
	fluoranthene	0.16	0.16	0
	TDS	860	860	0

8. Reporting Limits – Acceptable except as noted:

Interferences in the sample matrix prevented quantitation of cPAHs below the project specific practical quantitation limits (PQL) in samples GMX-MW-05-0409 and GMX-MW-04-0409. Additionally, the PQL for arsenic was raised due to interferences for the following samples: GMX-MW-06-040-, ANCP-MW-02-0409, GMX-MW-01-0409, ANCP-MW-01-0409, GMX-MW-05-0409, and GMX-MW-04-0409. Finally, the PQL for selenium was raised due to interferences for the following samples: ANCP-MW-02-0409 and ANCP-MW-01-0409

Memo
May 14, 2009
Page 3 of 3

OVERALL ASSESSMENT OF DATA

The OnSite SDG 0904-128 is 100% complete. The data usability is based on EPA's guidance documents and the QAPP. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives, with the exceptions specified regarding reporting limits.

REFERENCES

EPA (U.S. Environmental Protection Agency), 1995, Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), Third Edition, September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995; Final Update III, December 1996; Final Update IIIA, April 1998.

EPA, 1999, U.S. EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review: EPA 540/R-99/008, October.

EPA, 2004, U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review: EPA 540-R-04-004, October.

AMEC Geomatrix, 2008. Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, September.

Sample ID	Laboratory Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
GMX-MW-06-0409	04-128-01	none			
ANCP-MW-02-0409	04-128-02	none			
GMX-MW-01-0409	04-128-03	none			
GMX-MW-03-0409	04-128-04	none			
GMX-MW-103-0409	04-128-05	none			
ANCP-MW-01-0409	04-128-06	none			
GMX-MW-02-0409	04-128-07	none			
GMX-MW-05-0409	04-128-08	none			
GMX-MW-04-0409	04-128-09	none			



April 29, 2009

Nik Bacher
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654
Laboratory Reference No. 0904-128

Dear Nik:

Enclosed are the analytical results and associated quality control data for samples submitted on April 16, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

Case Narrative

Samples were collected on April 15 and 16, 2009, and received by the laboratory on April 16, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Semivolatiles EPA 8270D/SIM Analysis

Sample GMX-MW-05-0409 had one surrogate recovery out of control limits. This is within allowance of our standard operation procedure as long as the recovery is above 10%.

Interferences in the sample matrix prevented quantitation of the CPAHs below the given PQLs in samples GMX-MW-05-0409 and GMX-MW-04-0409.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Total Metals EPA 6020/7470A Analysis

The practical quantitation limit for Arsenic is raised for GMX-MW-06-0409, ANCP-MW-02-0409, GMX-MW-01-0409, ANCP-MW-01-0409, GMX-MW-05-0409, and GMX-MW-04-0409 due to interferences present in the samples.

The practical quantitation limit for Selenium is raised for ANCP-MW-02-0409 and ANCP-MW-01-0409 due to interferences present in the samples.

An alternate line was reported for Arsenic in samples GMX-MW-06-0409, ANCP-MW-02-0409, and ANCP-MW-01-0409.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
 Date Analyzed: 4-22-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	GMX-MW-06-0409	ANCP-MW-02-0409	GMX-MW-01-0409
Lab ID:	04-128-01	04-128-02	04-128-03
Diesel Range:	ND	ND	ND
PQL:	0.26	0.26	0.26
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.41	0.41	0.41
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	95%	105%	119%
Flags:	Y	Y	Y

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
 Date Analyzed: 4-22-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	GMX-MW-03-0409	GMX-MW-103-0409	ANCP-MW-01-0409
Lab ID:	04-128-04	04-128-05	04-128-06
Diesel Range:	ND	ND	ND
PQL:	0.25	0.26	0.26
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.40	0.41	0.42
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	109%	108%	96%
Flags:	Y	Y	Y

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
 Date Analyzed: 4-22-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	GMX-MW-02-0409	GMX-MW-05-0409	GMX-MW-04-0409
Lab ID:	04-128-07	04-128-08	04-128-09
Diesel Range:	ND	ND	ND
PQL:	0.26	0.27	0.26
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.41	0.42	0.41
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	115%	81%	129%
Flags:	Y	Y	Y

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-21-09
Date Analyzed: 4-21-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0421W1

Diesel Range: **ND**
PQL: 0.25

Identification: ---

Lube Oil Range: **ND**
PQL: 0.40

Identification: ---

Surrogate Recovery
o-Terphenyl: 131%

Flags: Y

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-21-09
Date Analyzed: 4-22-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: 04-128-01 04-128-01 DUP

Diesel Range: ND ND
PQL: 0.26 0.26

RPD: N/A

Surrogate Recovery
o-Terphenyl: 95% 104%

Flags: Y Y

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed
Client ID:	GMX-MW-06-0409				
Laboratory ID:	04-128-01				
N-Nitrosodimethylamine	ND	0.95	EPA 8270	4-20-09	4-21-09
Pyridine	ND	0.95	EPA 8270	4-20-09	4-21-09
Phenol	ND	0.95	EPA 8270	4-20-09	4-21-09
Aniline	ND	0.95	EPA 8270	4-20-09	4-21-09
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270	4-20-09	4-21-09
2-Chlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09
1,3-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09
1,4-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09
Benzyl alcohol	ND	0.95	EPA 8270	4-20-09	4-21-09
1,2-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270	4-20-09	4-21-09
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270	4-20-09	4-21-09
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270	4-20-09	4-21-09
N-Nitroso-di-n-propylamine	ND	0.95	EPA 8270	4-20-09	4-21-09
Hexachloroethane	ND	0.95	EPA 8270	4-20-09	4-21-09
Nitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09
Isophorone	ND	0.95	EPA 8270	4-20-09	4-21-09
2-Nitrophenol	ND	0.95	EPA 8270	4-20-09	4-21-09
2,4-Dimethylphenol	ND	0.95	EPA 8270	4-20-09	4-21-09
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270	4-20-09	4-21-09
2,4-Dichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09
Naphthalene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09
4-Chloroaniline	ND	9.5	EPA 8270	4-20-09	4-21-09
Hexachlorobutadiene	ND	0.95	EPA 8270	4-20-09	4-21-09
4-Chloro-3-methylphenol	ND	0.95	EPA 8270	4-20-09	4-21-09
2-Methylnaphthalene	0.099	0.095	EPA 8270/SIM	4-20-09	4-21-09
1-Methylnaphthalene	0.38	0.095	EPA 8270/SIM	4-20-09	4-21-09
Hexachlorocyclopentadiene	ND	0.95	EPA 8270	4-20-09	4-21-09
2,4,6-Trichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09
2,3-Dichloroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09
2,4,5-Trichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09
2-Chloronaphthalene	ND	0.95	EPA 8270	4-20-09	4-21-09
2-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09
1,4-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09
Dimethylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09
1,3-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09
2,6-Dinitrotoluene	ND	0.95	EPA 8270	4-20-09	4-21-09
1,2-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09
Acenaphthylene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09
3-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-06-0409					
Laboratory ID:	04-128-01					
2,4-Dinitrophenol	ND	9.5	EPA 8270	4-20-09	4-21-09	
Acenaphthene	0.23	0.095	EPA 8270/SIM	4-20-09	4-21-09	
4-Nitrophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
Fluorene	0.20	0.095	EPA 8270/SIM	4-20-09	4-21-09	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	9.5	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
Phenanthrene	0.13	0.095	EPA 8270/SIM	4-20-09	4-21-09	
Anthracene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
Carbazole	ND	0.95	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Fluoranthene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
Benzidine	ND	9.5	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
Butylbenzylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis-2-Ethylhexyladipate	ND	0.95	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	9.5	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Chrysene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[k]fluoranthene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[a]pyrene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	60	10 - 95				
Phenol-d6	59	10 - 109				
Nitrobenzene-d5	90	28 - 109				
2-Fluorobiphenyl	84	34 - 101				
2,4,6-Tribromophenol	94	46 - 115				
Terphenyl-d14	86	50 - 110				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ANCP-MW-02-0409					
Laboratory ID:	04-128-02					
N-Nitrosodimethylamine	ND	0.95	EPA 8270	4-20-09	4-21-09	
Pyridine	ND	0.95	EPA 8270	4-20-09	4-21-09	
Phenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
Aniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Chlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,3-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,4-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Benzyl alcohol	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,2-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270	4-20-09	4-21-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270	4-20-09	4-21-09	
N-Nitroso-di-n-propylamine	ND	0.95	EPA 8270	4-20-09	4-21-09	
Hexachloroethane	ND	0.95	EPA 8270	4-20-09	4-21-09	
Nitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Isophorone	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Nitrophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dimethylphenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Naphthalene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
4-Chloroaniline	ND	9.5	EPA 8270	4-20-09	4-21-09	
Hexachlorobutadiene	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Methylnaphthalene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
1-Methylnaphthalene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3-Dichloroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Chloronaphthalene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,4-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Dimethylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,3-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,6-Dinitrotoluene	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,2-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Acenaphthylene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
3-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ANCP-MW-02-0409					
Laboratory ID:	04-128-02					
2,4-Dinitrophenol	ND	9.5	EPA 8270	4-20-09	4-21-09	
Acenaphthene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
4-Nitrophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
Fluorene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	9.5	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
Phenanthrene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
Anthracene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
Carbazole	ND	0.95	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Fluoranthene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
Benzidine	ND	9.5	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.095	EPA 8270/SIM	4-20-09	4-21-09	
Butylbenzylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Ethylhexyl)adipate	ND	0.95	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	9.5	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Chrysene	0.021	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[k]fluoranthene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[a]pyrene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270/SIM	4-20-09	4-21-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	49	10 - 95				
Phenol-d6	45	10 - 109				
Nitrobenzene-d5	77	28 - 109				
2-Fluorobiphenyl	77	34 - 101				
2,4,6-Tribromophenol	92	46 - 115				
Terphenyl-d14	87	50 - 110				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-01-0409					
Laboratory ID:	04-128-03					
N-Nitrosodimethylamine	ND	0.97	EPA 8270	4-20-09	4-21-09	
Pyridine	ND	0.97	EPA 8270	4-20-09	4-21-09	
Phenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
Aniline	ND	0.97	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethyl)ether	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Chlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,3-Dichlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,4-Dichlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Benzyl alcohol	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,2-Dichlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Methylphenol (o-Cresol)	ND	0.97	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroisopropyl)ether	ND	0.97	EPA 8270	4-20-09	4-21-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.97	EPA 8270	4-20-09	4-21-09	
N-Nitroso-di-n-propylamine	ND	0.97	EPA 8270	4-20-09	4-21-09	
Hexachloroethane	ND	0.97	EPA 8270	4-20-09	4-21-09	
Nitrobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Isophorone	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Nitrophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4-Dimethylphenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethoxy)methane	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4-Dichlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,2,4-Trichlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Naphthalene	ND	0.097	EPA 8270/SIM	4-20-09	4-21-09	
4-Chloroaniline	ND	9.7	EPA 8270	4-20-09	4-21-09	
Hexachlorobutadiene	ND	0.97	EPA 8270	4-20-09	4-21-09	
4-Chloro-3-methylphenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Methylnaphthalene	ND	0.097	EPA 8270/SIM	4-20-09	4-21-09	
1-Methylnaphthalene	ND	0.097	EPA 8270/SIM	4-20-09	4-21-09	
Hexachlorocyclopentadiene	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4,6-Trichlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,3-Dichloroaniline	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4,5-Trichlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Chloronaphthalene	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Nitroaniline	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,4-Dinitrobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Dimethylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,3-Dinitrobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,6-Dinitrotoluene	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,2-Dinitrobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Acenaphthylene	ND	0.097	EPA 8270/SIM	4-20-09	4-21-09	
3-Nitroaniline	ND	0.97	EPA 8270	4-20-09	4-21-09	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-01-0409					
Laboratory ID:	04-128-03					
2,4-Dinitrophenol	ND	9.7	EPA 8270	4-20-09	4-21-09	
Acenaphthene	3.9	0.97	EPA 8270	4-20-09	4-21-09	
4-Nitrophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	0.97	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	0.97	EPA 8270	4-20-09	4-21-09	
Fluorene	0.38	0.097	EPA 8270/SIM	4-20-09	4-21-09	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	9.7	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	0.97	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	0.97	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
Phenanthrene	ND	0.097	EPA 8270/SIM	4-20-09	4-21-09	
Anthracene	ND	0.097	EPA 8270/SIM	4-20-09	4-21-09	
Carbazole	ND	0.97	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
Fluoranthene	ND	0.097	EPA 8270/SIM	4-20-09	4-21-09	
Benzidine	ND	9.7	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.097	EPA 8270/SIM	4-20-09	4-21-09	
Butylbenzylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
bis(2-Ethylhexyl)adipate	ND	0.97	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	9.7	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.0097	EPA 8270/SIM	4-20-09	4-21-09	
Chrysene	ND	0.0097	EPA 8270/SIM	4-20-09	4-21-09	
bis(2-Ethylhexyl)phthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.0097	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[k]fluoranthene	ND	0.0097	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[a]pyrene	ND	0.0097	EPA 8270/SIM	4-20-09	4-21-09	
Indeno[1,2,3-cd]pyrene	ND	0.0097	EPA 8270/SIM	4-20-09	4-21-09	
Dibenz[a,h]anthracene	ND	0.0097	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[g,h,i]perylene	ND	0.0097	EPA 8270/SIM	4-20-09	4-21-09	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	56	10 - 95				
Phenol-d6	50	10 - 109				
Nitrobenzene-d5	82	28 - 109				
2-Fluorobiphenyl	76	34 - 101				
2,4,6-Tribromophenol	87	46 - 115				
Terphenyl-d14	87	50 - 110				

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 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-03-0409					
Laboratory ID:	04-128-04					
N-Nitrosodimethylamine	ND	0.96	EPA 8270	4-20-09	4-21-09	
Pyridine	ND	0.96	EPA 8270	4-20-09	4-21-09	
Phenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
Aniline	ND	0.96	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethyl)ether	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Chlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,3-Dichlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,4-Dichlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Benzyl alcohol	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,2-Dichlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Methylphenol (o-Cresol)	ND	0.96	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroisopropyl)ether	ND	0.96	EPA 8270	4-20-09	4-21-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.96	EPA 8270	4-20-09	4-21-09	
N-Nitroso-di-n-propylamine	ND	0.96	EPA 8270	4-20-09	4-21-09	
Hexachloroethane	ND	0.96	EPA 8270	4-20-09	4-21-09	
Nitrobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Isophorone	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Nitrophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4-Dimethylphenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethoxy)methane	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4-Dichlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,2,4-Trichlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Naphthalene	0.40	0.096	EPA 8270/SIM	4-20-09	4-24-09	
4-Chloroaniline	ND	9.6	EPA 8270	4-20-09	4-21-09	
Hexachlorobutadiene	ND	0.96	EPA 8270	4-20-09	4-21-09	
4-Chloro-3-methylphenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Methylnaphthalene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
1-Methylnaphthalene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Hexachlorocyclopentadiene	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4,6-Trichlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,3-Dichloroaniline	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4,5-Trichlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Chloronaphthalene	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Nitroaniline	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,4-Dinitrobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Dimethylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,3-Dinitrobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,6-Dinitrotoluene	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,2-Dinitrobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Acenaphthylene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
3-Nitroaniline	ND	0.96	EPA 8270	4-20-09	4-21-09	

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-03-0409					
Laboratory ID:	04-128-04					
2,4-Dinitrophenol	ND	9.6	EPA 8270	4-20-09	4-21-09	
Acenaphthene	3.4	0.96	EPA 8270	4-20-09	4-21-09	
4-Nitrophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	0.96	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	0.96	EPA 8270	4-20-09	4-21-09	
Fluorene	1.6	0.96	EPA 8270	4-20-09	4-21-09	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	9.6	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	0.96	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	0.96	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
Phenanthrene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Anthracene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Carbazole	ND	0.96	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
Fluoranthene	0.16	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Benzidine	ND	9.6	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Butylbenzylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
bis-2-Ethylhexyladipate	ND	0.96	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	9.6	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Chrysene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
bis(2-Ethylhexyl)phthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[k]fluoranthene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[a]pyrene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Indeno[1,2,3-cd]pyrene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[g,h,i]perylene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	53	10 - 95				
Phenol-d6	52	10 - 109				
Nitrobenzene-d5	77	28 - 109				
2-Fluorobiphenyl	79	34 - 101				
2,4,6-Tribromophenol	88	46 - 115				
Terphenyl-d14	87	50 - 110				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-103-0409					
Laboratory ID:	04-128-05					
N-Nitrosodimethylamine	ND	0.96	EPA 8270	4-20-09	4-21-09	
Pyridine	ND	0.96	EPA 8270	4-20-09	4-21-09	
Phenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
Aniline	ND	0.96	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethyl)ether	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Chlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,3-Dichlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,4-Dichlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Benzyl alcohol	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,2-Dichlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Methylphenol (o-Cresol)	ND	0.96	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroisopropyl)ether	ND	0.96	EPA 8270	4-20-09	4-21-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.96	EPA 8270	4-20-09	4-21-09	
N-Nitroso-di-n-propylamine	ND	0.96	EPA 8270	4-20-09	4-21-09	
Hexachloroethane	ND	0.96	EPA 8270	4-20-09	4-21-09	
Nitrobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Isophorone	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Nitrophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4-Dimethylphenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethoxy)methane	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4-Dichlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,2,4-Trichlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Naphthalene	0.37	0.096	EPA 8270/SIM	4-20-09	4-24-09	
4-Chloroaniline	ND	9.6	EPA 8270	4-20-09	4-21-09	
Hexachlorobutadiene	ND	0.96	EPA 8270	4-20-09	4-21-09	
4-Chloro-3-methylphenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Methylnaphthalene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
1-Methylnaphthalene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Hexachlorocyclopentadiene	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4,6-Trichlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,3-Dichloroaniline	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4,5-Trichlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Chloronaphthalene	ND	0.96	EPA 8270	4-20-09	4-21-09	
2-Nitroaniline	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,4-Dinitrobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Dimethylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,3-Dinitrobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,6-Dinitrotoluene	ND	0.96	EPA 8270	4-20-09	4-21-09	
1,2-Dinitrobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Acenaphthylene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
3-Nitroaniline	ND	0.96	EPA 8270	4-20-09	4-21-09	

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-103-0409					
Laboratory ID:	04-128-05					
2,4-Dinitrophenol	ND	9.6	EPA 8270	4-20-09	4-21-09	
Acenaphthene	3.1	0.96	EPA 8270	4-20-09	4-21-09	
4-Nitrophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	0.96	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	0.96	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	0.96	EPA 8270	4-20-09	4-21-09	
Fluorene	1.4	0.96	EPA 8270	4-20-09	4-21-09	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	9.6	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	0.96	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	0.96	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	0.96	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
Phenanthrene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Anthracene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Carbazole	ND	0.96	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
Fluoranthene	0.16	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Benzidine	ND	9.6	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.096	EPA 8270/SIM	4-20-09	4-24-09	
Butylbenzylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
bis(2-Ethylhexyl)adipate	ND	0.96	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	9.6	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Chrysene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
bis(2-Ethylhexyl)phthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	0.96	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[k]fluoranthene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[a]pyrene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Indeno[1,2,3-cd]pyrene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[g,h,i]perylene	ND	0.0096	EPA 8270/SIM	4-20-09	4-24-09	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	50	10 - 95				
Phenol-d6	50	10 - 109				
Nitrobenzene-d5	72	28 - 109				
2-Fluorobiphenyl	72	34 - 101				
2,4,6-Tribromophenol	83	46 - 115				
Terphenyl-d14	83	50 - 110				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ANCP-MW-01-0409					
Laboratory ID:	04-128-06					
N-Nitrosodimethylamine	ND	0.95	EPA 8270	4-20-09	4-21-09	
Pyridine	ND	0.95	EPA 8270	4-20-09	4-21-09	
Phenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
Aniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Chlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,3-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,4-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Benzyl alcohol	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,2-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270	4-20-09	4-21-09	
(3+4)-Methylphenol (m,p-Cresol)	2.3	0.95	EPA 8270	4-20-09	4-21-09	
N-Nitroso-di-n-propylamine	ND	0.95	EPA 8270	4-20-09	4-21-09	
Hexachloroethane	ND	0.95	EPA 8270	4-20-09	4-21-09	
Nitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Isophorone	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Nitrophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dimethylphenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Naphthalene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
4-Chloroaniline	ND	9.5	EPA 8270	4-20-09	4-21-09	
Hexachlorobutadiene	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Methylnaphthalene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
1-Methylnaphthalene	0.17	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3-Dichloroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Chloronaphthalene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,4-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Dimethylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,3-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,6-Dinitrotoluene	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,2-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Acenaphthylene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
3-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ANCP-MW-01-0409					
Laboratory ID:	04-128-06					
2,4-Dinitrophenol	ND	9.5	EPA 8270	4-20-09	4-21-09	
Acenaphthene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
4-Nitrophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
Fluorene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	9.5	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
Phenanthrene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Anthracene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Carbazole	ND	0.95	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Fluoranthene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Benzidine	ND	9.5	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Butylbenzylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis-2-Ethylhexyladipate	ND	0.95	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	9.5	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Chrysene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[k]fluoranthene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[a]pyrene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	60	10 - 95				
Phenol-d6	59	10 - 109				
Nitrobenzene-d5	86	28 - 109				
2-Fluorobiphenyl	77	34 - 101				
2,4,6-Tribromophenol	79	46 - 115				
Terphenyl-d14	82	50 - 110				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-02-0409					
Laboratory ID:	04-128-07					
N-Nitrosodimethylamine	ND	0.95	EPA 8270	4-20-09	4-21-09	
Pyridine	ND	0.95	EPA 8270	4-20-09	4-21-09	
Phenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
Aniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Chlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,3-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,4-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Benzyl alcohol	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,2-Dichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270	4-20-09	4-21-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270	4-20-09	4-21-09	
N-Nitroso-di-n-propylamine	ND	0.95	EPA 8270	4-20-09	4-21-09	
Hexachloroethane	ND	0.95	EPA 8270	4-20-09	4-21-09	
Nitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Isophorone	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Nitrophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dimethylphenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Naphthalene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
4-Chloroaniline	ND	9.5	EPA 8270	4-20-09	4-21-09	
Hexachlorobutadiene	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Methylnaphthalene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
1-Methylnaphthalene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3-Dichloroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Chloronaphthalene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,4-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Dimethylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,3-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,6-Dinitrotoluene	ND	0.95	EPA 8270	4-20-09	4-21-09	
1,2-Dinitrobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Acenaphthylene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
3-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-02-0409					
Laboratory ID:	04-128-07					
2,4-Dinitrophenol	ND	9.5	EPA 8270	4-20-09	4-21-09	
Acenaphthene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
4-Nitrophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	0.95	EPA 8270	4-20-09	4-21-09	
Fluorene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	9.5	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	0.95	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
Phenanthrene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Anthracene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Carbazole	ND	0.95	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Fluoranthene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Benzidine	ND	9.5	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.095	EPA 8270/SIM	4-20-09	4-24-09	
Butylbenzylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
bis(2-Ethylhexyl)adipate	ND	0.95	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	9.5	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Chrysene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	0.95	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[k]fluoranthene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[a]pyrene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270/SIM	4-20-09	4-24-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	52	10 - 95				
Phenol-d6	44	10 - 109				
Nitrobenzene-d5	77	28 - 109				
2-Fluorobiphenyl	72	34 - 101				
2,4,6-Tribromophenol	77	46 - 115				
Terphenyl-d14	79	50 - 110				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-05-0409					
Laboratory ID:	04-128-08					
N-Nitrosodimethylamine	ND	0.94	EPA 8270	4-20-09	4-21-09	
Pyridine	ND	0.94	EPA 8270	4-20-09	4-21-09	
Phenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
Aniline	ND	0.94	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethyl)ether	ND	0.94	EPA 8270	4-20-09	4-21-09	
2-Chlorophenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
1,3-Dichlorobenzene	ND	0.94	EPA 8270	4-20-09	4-21-09	
1,4-Dichlorobenzene	ND	0.94	EPA 8270	4-20-09	4-21-09	
Benzyl alcohol	ND	0.94	EPA 8270	4-20-09	4-21-09	
1,2-Dichlorobenzene	ND	0.94	EPA 8270	4-20-09	4-21-09	
2-Methylphenol (o-Cresol)	ND	0.94	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroisopropyl)ether	ND	0.94	EPA 8270	4-20-09	4-21-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.94	EPA 8270	4-20-09	4-21-09	
N-Nitroso-di-n-propylamine	ND	0.94	EPA 8270	4-20-09	4-21-09	
Hexachloroethane	ND	0.94	EPA 8270	4-20-09	4-21-09	
Nitrobenzene	ND	0.94	EPA 8270	4-20-09	4-21-09	
Isophorone	ND	0.94	EPA 8270	4-20-09	4-21-09	
2-Nitrophenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
2,4-Dimethylphenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethoxy)methane	ND	0.94	EPA 8270	4-20-09	4-21-09	
2,4-Dichlorophenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
1,2,4-Trichlorobenzene	ND	0.94	EPA 8270	4-20-09	4-21-09	
Naphthalene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
4-Chloroaniline	ND	9.4	EPA 8270	4-20-09	4-21-09	
Hexachlorobutadiene	ND	0.94	EPA 8270	4-20-09	4-21-09	
4-Chloro-3-methylphenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
2-Methylnaphthalene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
1-Methylnaphthalene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Hexachlorocyclopentadiene	ND	0.94	EPA 8270	4-20-09	4-21-09	
2,4,6-Trichlorophenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
2,3-Dichloroaniline	ND	0.94	EPA 8270	4-20-09	4-21-09	
2,4,5-Trichlorophenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
2-Chloronaphthalene	ND	0.94	EPA 8270	4-20-09	4-21-09	
2-Nitroaniline	ND	0.94	EPA 8270	4-20-09	4-21-09	
1,4-Dinitrobenzene	ND	0.94	EPA 8270	4-20-09	4-21-09	
Dimethylphthalate	ND	0.94	EPA 8270	4-20-09	4-21-09	
1,3-Dinitrobenzene	ND	0.94	EPA 8270	4-20-09	4-21-09	
2,6-Dinitrotoluene	ND	0.94	EPA 8270	4-20-09	4-21-09	
1,2-Dinitrobenzene	ND	0.94	EPA 8270	4-20-09	4-21-09	
Acenaphthylene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
3-Nitroaniline	ND	0.94	EPA 8270	4-20-09	4-21-09	

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
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 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-05-0409					
Laboratory ID:	04-128-08					
2,4-Dinitrophenol	ND	9.4	EPA 8270	4-20-09	4-21-09	
Acenaphthene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
4-Nitrophenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	0.94	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	0.94	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	0.94	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	0.94	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	0.94	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	0.94	EPA 8270	4-20-09	4-21-09	
Fluorene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
4,6-Dinitro-2-methylphenol	ND	4.7	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	9.4	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	0.94	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	0.94	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	0.94	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	4.7	EPA 8270	4-20-09	4-21-09	
Phenanthrene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Anthracene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Carbazole	ND	0.94	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	0.94	EPA 8270	4-20-09	4-21-09	
Fluoranthene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Benzidine	ND	9.4	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Butylbenzylphthalate	ND	0.94	EPA 8270	4-20-09	4-21-09	
bis(2-Ethylhexyl)adipate	ND	0.94	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	9.4	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Chrysene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
bis(2-Ethylhexyl)phthalate	ND	0.94	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	0.94	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[k]fluoranthene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[a]pyrene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Indeno[1,2,3-cd]pyrene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Dibenz[a,h]anthracene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[g,h,i]perylene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	33	10 - 95				
Phenol-d6	30	10 - 109				
Nitrobenzene-d5	44	28 - 109				
2-Fluorobiphenyl	42	34 - 101				
2,4,6-Tribromophenol	51	46 - 115				
Terphenyl-d14	40	50 - 110				

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Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-04-0409					
Laboratory ID:	04-128-09					
N-Nitrosodimethylamine	ND	0.97	EPA 8270	4-20-09	4-21-09	
Pyridine	ND	0.97	EPA 8270	4-20-09	4-21-09	
Phenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
Aniline	ND	0.97	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethyl)ether	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Chlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,3-Dichlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,4-Dichlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Benzyl alcohol	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,2-Dichlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Methylphenol (o-Cresol)	ND	0.97	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroisopropyl)ether	ND	0.97	EPA 8270	4-20-09	4-21-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.97	EPA 8270	4-20-09	4-21-09	
N-Nitroso-di-n-propylamine	ND	0.97	EPA 8270	4-20-09	4-21-09	
Hexachloroethane	ND	0.97	EPA 8270	4-20-09	4-21-09	
Nitrobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Isophorone	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Nitrophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4-Dimethylphenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethoxy)methane	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4-Dichlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,2,4-Trichlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Naphthalene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
4-Chloroaniline	ND	9.7	EPA 8270	4-20-09	4-21-09	
Hexachlorobutadiene	ND	0.97	EPA 8270	4-20-09	4-21-09	
4-Chloro-3-methylphenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Methylnaphthalene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
1-Methylnaphthalene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Hexachlorocyclopentadiene	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4,6-Trichlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,3-Dichloroaniline	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4,5-Trichlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Chloronaphthalene	ND	0.97	EPA 8270	4-20-09	4-21-09	
2-Nitroaniline	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,4-Dinitrobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Dimethylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,3-Dinitrobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,6-Dinitrotoluene	ND	0.97	EPA 8270	4-20-09	4-21-09	
1,2-Dinitrobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Acenaphthylene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
3-Nitroaniline	ND	0.97	EPA 8270	4-20-09	4-21-09	

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-04-0409					
Laboratory ID:	04-128-09					
2,4-Dinitrophenol	ND	9.7	EPA 8270	4-20-09	4-21-09	
Acenaphthene	0.29	0.19	EPA 8270/SIM	4-20-09	4-24-09	
4-Nitrophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	0.97	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	0.97	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	0.97	EPA 8270	4-20-09	4-21-09	
Fluorene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	9.7	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	0.97	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	0.97	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	0.97	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	4.8	EPA 8270	4-20-09	4-21-09	
Phenanthrene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Anthracene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Carbazole	ND	0.97	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
Fluoranthene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Benzidine	ND	9.7	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.19	EPA 8270/SIM	4-20-09	4-24-09	
Butylbenzylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
bis-2-Ethylhexyladipate	ND	0.97	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	9.7	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Chrysene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
bis(2-Ethylhexyl)phthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	0.97	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[k]fluoranthene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[a]pyrene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Indeno[1,2,3-cd]pyrene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Dibenz[a,h]anthracene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Benzo[g,h,i]perylene	ND	0.019	EPA 8270/SIM	4-20-09	4-24-09	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	42	10 - 95				
Phenol-d6	46	10 - 109				
Nitrobenzene-d5	62	28 - 109				
2-Fluorobiphenyl	67	34 - 101				
2,4,6-Tribromophenol	70	46 - 115				
Terphenyl-d14	72	50 - 110				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0420W1					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	4-20-09	4-21-09	
Pyridine	ND	1.0	EPA 8270	4-20-09	4-21-09	
Phenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
Aniline	ND	1.0	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	4-20-09	4-21-09	
2-Chlorophenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	4-20-09	4-21-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	4-20-09	4-21-09	
Benzyl alcohol	ND	1.0	EPA 8270	4-20-09	4-21-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	4-20-09	4-21-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	4-20-09	4-21-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	4-20-09	4-21-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	4-20-09	4-21-09	
Hexachloroethane	ND	1.0	EPA 8270	4-20-09	4-21-09	
Nitrobenzene	ND	1.0	EPA 8270	4-20-09	4-21-09	
Isophorone	ND	1.0	EPA 8270	4-20-09	4-21-09	
2-Nitrophenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	4-20-09	4-21-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	4-20-09	4-21-09	
Naphthalene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
4-Chloroaniline	ND	10	EPA 8270	4-20-09	4-21-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	4-20-09	4-21-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	4-20-09	4-21-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	4-20-09	4-21-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	4-20-09	4-21-09	
2-Nitroaniline	ND	1.0	EPA 8270	4-20-09	4-21-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	4-20-09	4-21-09	
Dimethylphthalate	ND	1.0	EPA 8270	4-20-09	4-21-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	4-20-09	4-21-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	4-20-09	4-21-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	4-20-09	4-21-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
3-Nitroaniline	ND	1.0	EPA 8270	4-20-09	4-21-09	

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0420W1					
2,4-Dinitrophenol	ND	10	EPA 8270	4-20-09	4-21-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
4-Nitrophenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	4-20-09	4-21-09	
Dibenzofuran	ND	1.0	EPA 8270	4-20-09	4-21-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	4-20-09	4-21-09	
Diethylphthalate	ND	1.0	EPA 8270	4-20-09	4-21-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	4-20-09	4-21-09	
4-Nitroaniline	ND	1.0	EPA 8270	4-20-09	4-21-09	
Fluorene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	4-20-09	4-21-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	4-20-09	4-21-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	4-20-09	4-21-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	4-20-09	4-21-09	
Hexachlorobenzene	ND	1.0	EPA 8270	4-20-09	4-21-09	
Pentachlorophenol	ND	5.0	EPA 8270	4-20-09	4-21-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
Anthracene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
Carbazole	ND	1.0	EPA 8270	4-20-09	4-21-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	4-20-09	4-21-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
Benzidine	ND	10	EPA 8270	4-20-09	4-21-09	
Pyrene	ND	0.10	EPA 8270/SIM	4-20-09	4-21-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	4-20-09	4-21-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	4-20-09	4-21-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	4-20-09	4-21-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	4-20-09	4-21-09	
Chrysene	ND	0.010	EPA 8270/SIM	4-20-09	4-21-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	4-20-09	4-21-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	4-20-09	4-21-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	4-20-09	4-21-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	4-20-09	4-21-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	4-20-09	4-21-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	4-20-09	4-21-09	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	50	10 - 95				
Phenol-d6	40	10 - 109				
Nitrobenzene-d5	81	28 - 109				
2-Fluorobiphenyl	75	34 - 101				
2,4,6-Tribromophenol	87	46 - 115				
Terphenyl-d14	85	50 - 110				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0420W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	20.2	23.8	40.0	40.0	51	60	21 - 103	16	28	
2-Chlorophenol	25.5	31.2	40.0	40.0	64	78	30 - 102	20	28	
1,4-Dichlorobenzene	12.0	15.0	20.0	20.0	60	75	25 - 82	22	28	
N-Nitroso-di-n-propylamine	10.8	12.5	20.0	20.0	54	63	23 - 99	15	22	
1,2,4-Trichlorobenzene	12.3	15.1	20.0	20.0	62	76	28 - 85	20	28	
4-Chloro-3-methylphenol	28.7	30.2	40.0	40.0	72	76	38 - 115	5	30	
Acenaphthene	13.3	14.6	20.0	20.0	67	73	29 - 100	9	26	
4-Nitrophenol	30.4	31.4	40.0	40.0	76	79	42 - 116	3	30	
2,4-Dinitrotoluene	17.4	18.3	20.0	20.0	87	92	30 - 125	5	30	
Pentachlorophenol	37.1	37.8	40.0	40.0	93	95	41 - 145	2	30	
Pyrene	16.2	16.4	20.0	20.0	81	82	47 - 113	1	26	
<i>Surrogate:</i>										
2-Fluorophenol					57	70	10 - 95			
Phenol-d6					51	62	10 - 109			
Nitrobenzene-d5					71	88	28 - 109			
2-Fluorobiphenyl					68	78	34 - 101			
2,4,6-Tribromophenol					82	83	46 - 115			
Terphenyl-d14					82	83	50 - 110			

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Lab Traveler: 0904-128
 Project: 10654

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: GMX-MW-06-0409						
Laboratory ID: 04-128-01						
Aroclor 1016	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.047	EPA 8082	4-22-09	4-22-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	54	35-135				
Client ID: ANCP-MW-02-0409						
Laboratory ID: 04-128-02						
Aroclor 1016	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.047	EPA 8082	4-22-09	4-22-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	107	35-135				
Client ID: GMX-MW-01-0409						
Laboratory ID: 04-128-03						
Aroclor 1016	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.048	EPA 8082	4-22-09	4-22-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	104	35-135				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Lab Traveler: 0904-128
 Project: 10654

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-03-0409					
Laboratory ID:	04-128-04					
Aroclor 1016	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.048	EPA 8082	4-22-09	4-22-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	92	35-135				
Client ID:	GMX-MW-103-0409					
Laboratory ID:	04-128-05					
Aroclor 1016	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.047	EPA 8082	4-22-09	4-22-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	91	35-135				
Client ID:	ANCP-MW-01-0409					
Laboratory ID:	04-128-06					
Aroclor 1016	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.047	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.047	EPA 8082	4-22-09	4-22-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	87	35-135				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Lab Traveler: 0904-128
 Project: 10654

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-02-0409					
Laboratory ID:	04-128-07					
Aroclor 1016	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.048	EPA 8082	4-22-09	4-22-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	73	35-135				
Client ID:	GMX-MW-05-0409					
Laboratory ID:	04-128-08					
Aroclor 1016	ND	0.049	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.049	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.049	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.049	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.049	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.049	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.049	EPA 8082	4-22-09	4-22-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	42	35-135				
Client ID:	GMX-MW-04-0409					
Laboratory ID:	04-128-09					
Aroclor 1016	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.048	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.048	EPA 8082	4-22-09	4-22-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	95	35-135				

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Lab Traveler: 0904-128
 Project: 10654

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Aroclor 1016	ND	0.050	EPA 8082	4-22-09	4-22-09	
Aroclor 1221	ND	0.050	EPA 8082	4-22-09	4-22-09	
Aroclor 1232	ND	0.050	EPA 8082	4-22-09	4-22-09	
Aroclor 1242	ND	0.050	EPA 8082	4-22-09	4-22-09	
Aroclor 1248	ND	0.050	EPA 8082	4-22-09	4-22-09	
Aroclor 1254	ND	0.050	EPA 8082	4-22-09	4-22-09	
Aroclor 1260	ND	0.050	EPA 8082	4-22-09	4-22-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	75	35-135				

METHOD BLANK

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Aroclor 1016	ND	0.050	EPA 8082	4-22-09	4-22-09	X
Aroclor 1221	ND	0.050	EPA 8082	4-22-09	4-22-09	X
Aroclor 1232	ND	0.050	EPA 8082	4-22-09	4-22-09	X
Aroclor 1242	ND	0.050	EPA 8082	4-22-09	4-22-09	X
Aroclor 1248	ND	0.050	EPA 8082	4-22-09	4-22-09	X
Aroclor 1254	ND	0.050	EPA 8082	4-22-09	4-22-09	X
Aroclor 1260	ND	0.050	EPA 8082	4-22-09	4-22-09	X
Surrogate:	Percent Recovery	Control Limits				
DCB	81	35-135				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0422W1							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.355	0.355	0.500	0.500	N/A	71	71	61-114 0 12
Surrogate:								
DCB					74	72	35-135	

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 4-24&27-09
 Date Analyzed: 4-24,27&28-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 04-128-01
 Client ID: GMX-MW-06-0409

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Arsenic	6020	5.4	3.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 4-24&27-09
 Date Analyzed: 4-24,27&28-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 04-128-02
 Client ID: ANCP-MW-02-0409

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Arsenic	6020	ND	3.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	11
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020/7470A**

Date Extracted: 4-24&27-09
Date Analyzed: 4-24,27&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-128-03
Client ID: GMX-MW-01-0409

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Arsenic	6020	ND	1.3
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020/7470A**

Date Extracted: 4-24&27-09
Date Analyzed: 4-24,27&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-128-04
Client ID: GMX-MW-03-0409

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Arsenic	6020	ND	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
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 Project: 10654

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 4-24&27-09
 Date Analyzed: 4-24,27&28-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 04-128-05
 Client ID: GMX-MW-103-0409

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Arsenic	6020	ND	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020/7470A**

Date Extracted: 4-24&27-09
Date Analyzed: 4-24,27&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-128-06
Client ID: ANCP-MW-01-0409

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Arsenic	6020	ND	4.2
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	9.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020/7470A**

Date Extracted: 4-24&27-09
Date Analyzed: 4-24,27&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-128-07
Client ID: GMX-MW-02-0409

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Arsenic	6020	1.9	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020/7470A**

Date Extracted: 4-24&27-09
Date Analyzed: 4-24,27&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-128-08
Client ID: GMX-MW-05-0409

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Arsenic	6020	ND	3.2
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020/7470A**

Date Extracted: 4-24&27-09
Date Analyzed: 4-24,27&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-128-09
Client ID: GMX-MW-04-0409

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Arsenic	6020	ND	1.8
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-24-09
Date Analyzed: 4-24&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0424W1

Analyte	Method	Result	PQL
Antimony	6020	ND	5.6
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.4
Chromium	6020	ND	11
Copper	6020	ND	2.9
Lead	6020	ND	1.1
Nickel	6020	ND	8.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.6
Zinc	6020	ND	28

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020/7470A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-27-09
Date Analyzed: 4-27&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0427W1&MB0427W2

Analyte	Method	Result	PQL
Arsenic	6020	ND	1.0
Mercury	7470A	ND	0.125
Selenium	6020	ND	5.0

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

**TOTAL METALS
 EPA 6020
 DUPLICATE QUALITY CONTROL**

Date Extracted: 4-24-09
 Date Analyzed: 4-24&28-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 04-128-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.6	
Beryllium	ND	ND	NA	4.0	
Cadmium	ND	ND	NA	4.4	
Chromium	ND	ND	NA	11	
Copper	ND	ND	NA	2.9	
Lead	ND	ND	NA	1.1	
Nickel	ND	ND	NA	8.0	
Silver	ND	ND	NA	8.0	
Thallium	ND	ND	NA	5.6	
Zinc	ND	ND	NA	28	

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020/7470A
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-27-09
Date Analyzed: 4-27&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-128-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.125	
Selenium	ND	ND	NA	5.0	

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

**TOTAL METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-24-09
 Date Analyzed: 4-24&28-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 04-128-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	110	108	98	110	100	2	
Beryllium	110	109	99	104	94	5	
Cadmium	110	105	96	105	95	0	
Chromium	110	92.9	84	95.5	87	3	
Copper	110	99.4	90	103	94	4	
Lead	110	100	91	101	92	1	
Nickel	110	101	92	107	97	6	
Silver	110	98.6	90	104	95	6	
Thallium	110	101	91	100	91	1	
Zinc	110	112	101	114	104	3	

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL METALS
EPA 6020/7470A
MS/MSD QUALITY CONTROL**

Date Extracted: 4-27-09
Date Analyzed: 4-27&28-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-128-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	112	112	113	113	1	
Mercury	12.5	11.1	89	11.8	95	6	
Selenium	100	107	107	105	105	1	

Date of Report: April 29, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-128
Project: 10654

**TOTAL DISSOLVED SOLIDS
EPA 160.1**

Date Analyzed: 4-21-09

Matrix: Water
Units: mg/L

Client ID	Lab ID	Result	PQL
GMX-MW-06-0409	04-128-01	1600	13
ANCP-MW-02-0409	04-128-02	13000	13
GMX-MW-01-0409	04-128-03	1700	13
GMX-MW-03-0409	04-128-04	860	13
GMX-MW-103-0409	04-128-05	860	13
ANCP-MW-01-0409	04-128-06	8900	13
GMX-MW-02-0409	04-128-07	1400	13
GMX-MW-05-0409	04-128-08	2100	13
GMX-MW-04-0409	04-128-09	2100	13

Date of Report: April 29, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-128
 Project: 10654

**TOTAL DISSOLVED SOLIDS
 EPA 160.1
 QUALITY CONTROL**

Date Analyzed: 4-21-09

Matrix: Water
 Units: mg/L

METHOD BLANK QUALITY CONTROL

Lab ID	Result	PQL
MB0421W1	ND	13

SPIKE BLANK QUALITY CONTROL

Lab ID	Result	Spiked Amount	Percent Recovery	Control Limit	Flag
SB0421W1	485	500	97	79-112	

DUPLICATE QUALITY CONTROL

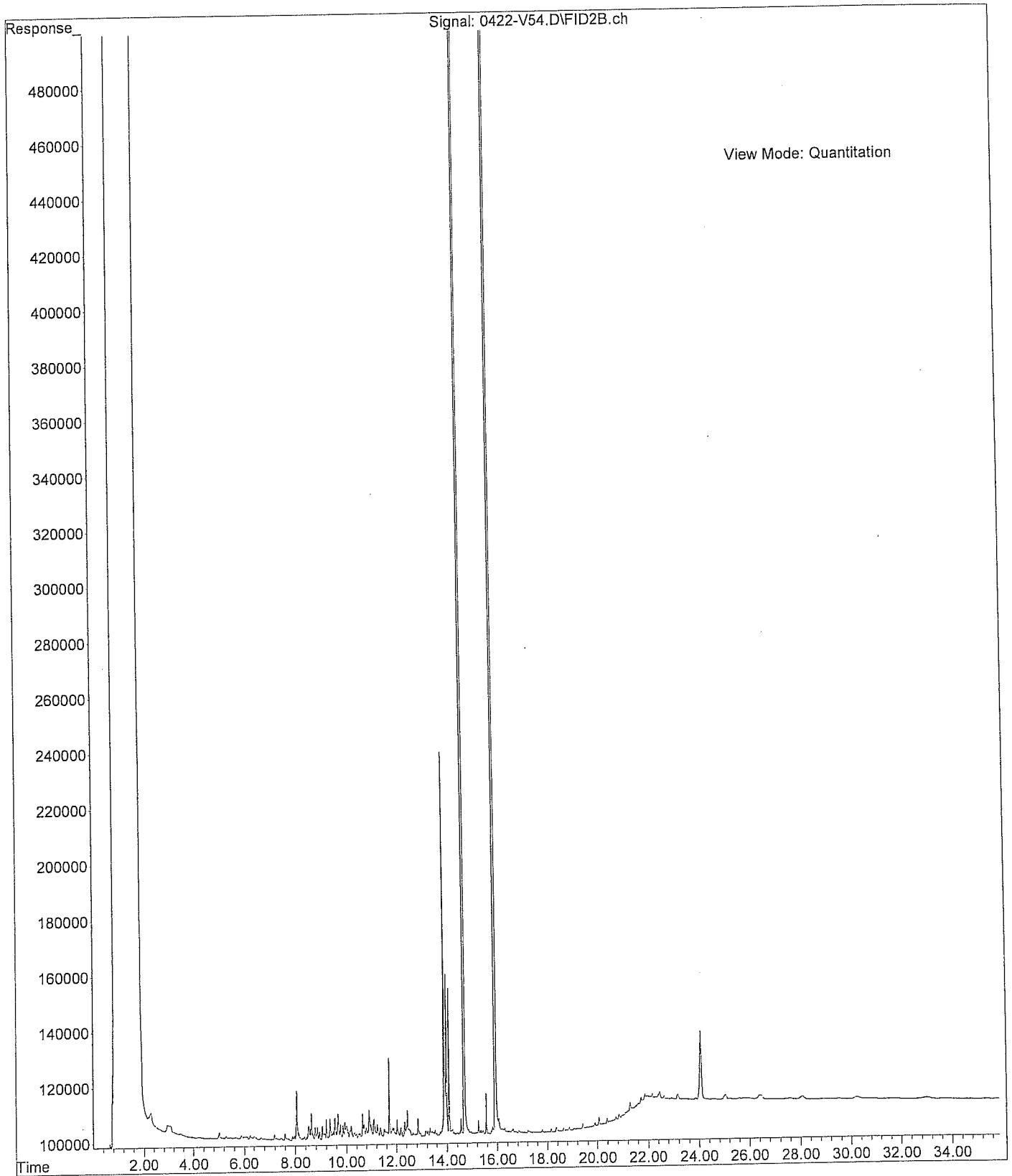
Lab ID	Sample Result	Duplicate Result	RPD	Control Limit	Flag
04-128-03	1690	1680	1	16	



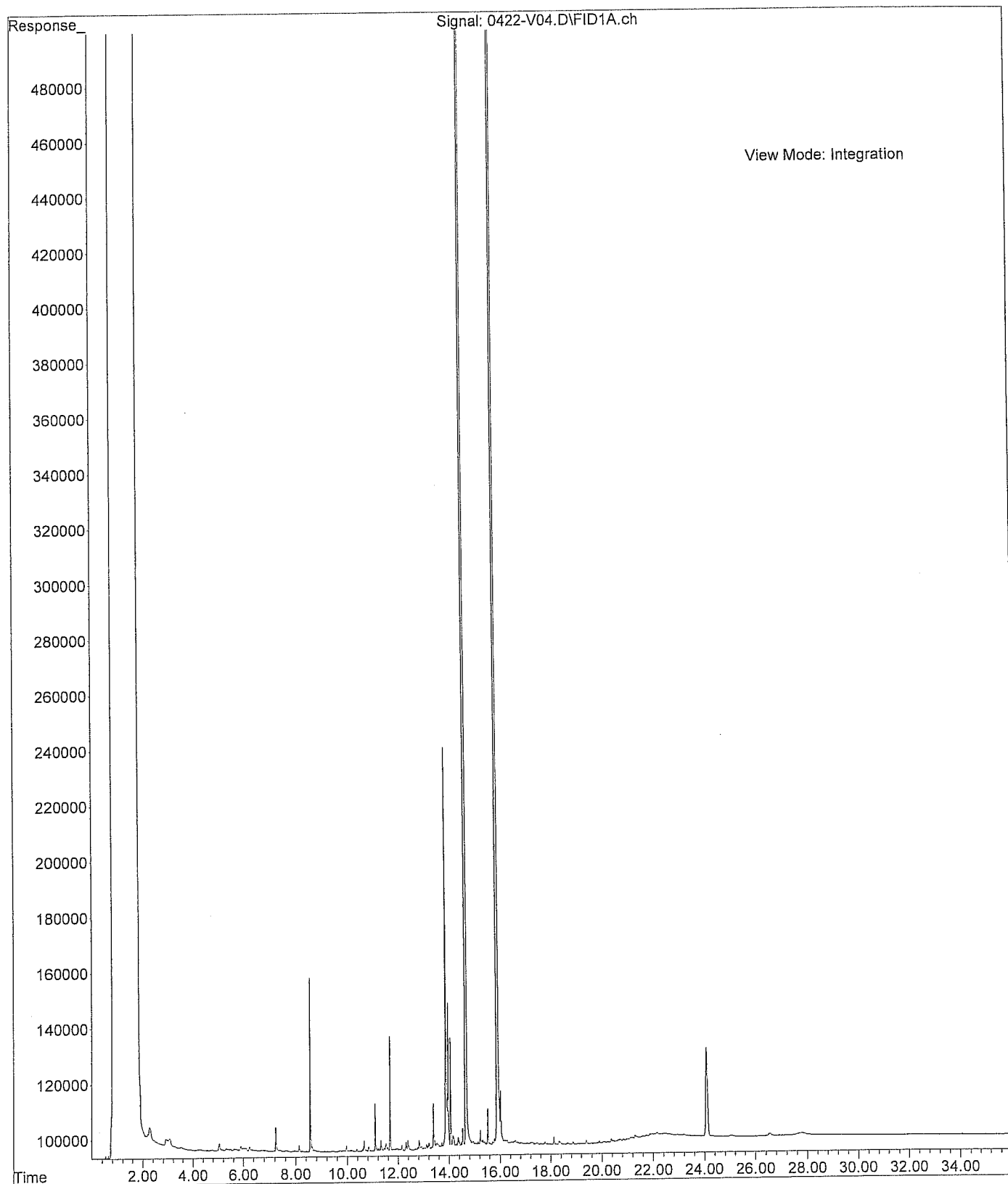
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

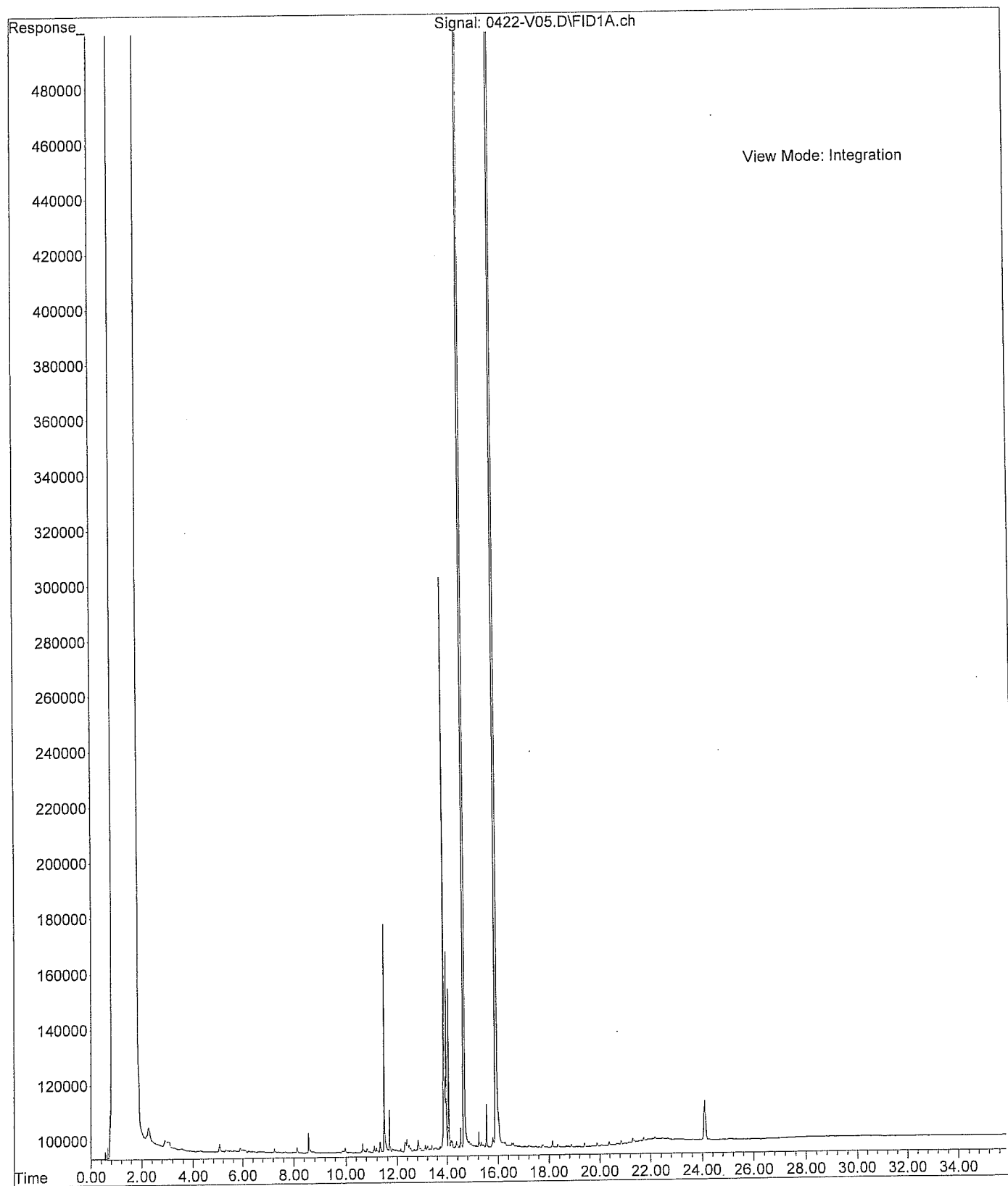
File : C:\msdchem\2\DATA\V090422.SEC\0422-V54.D
Operator : ZT
Acquired : 22 Apr 09 11:50 a using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-128-01
Misc Info :
Vial Number: 54



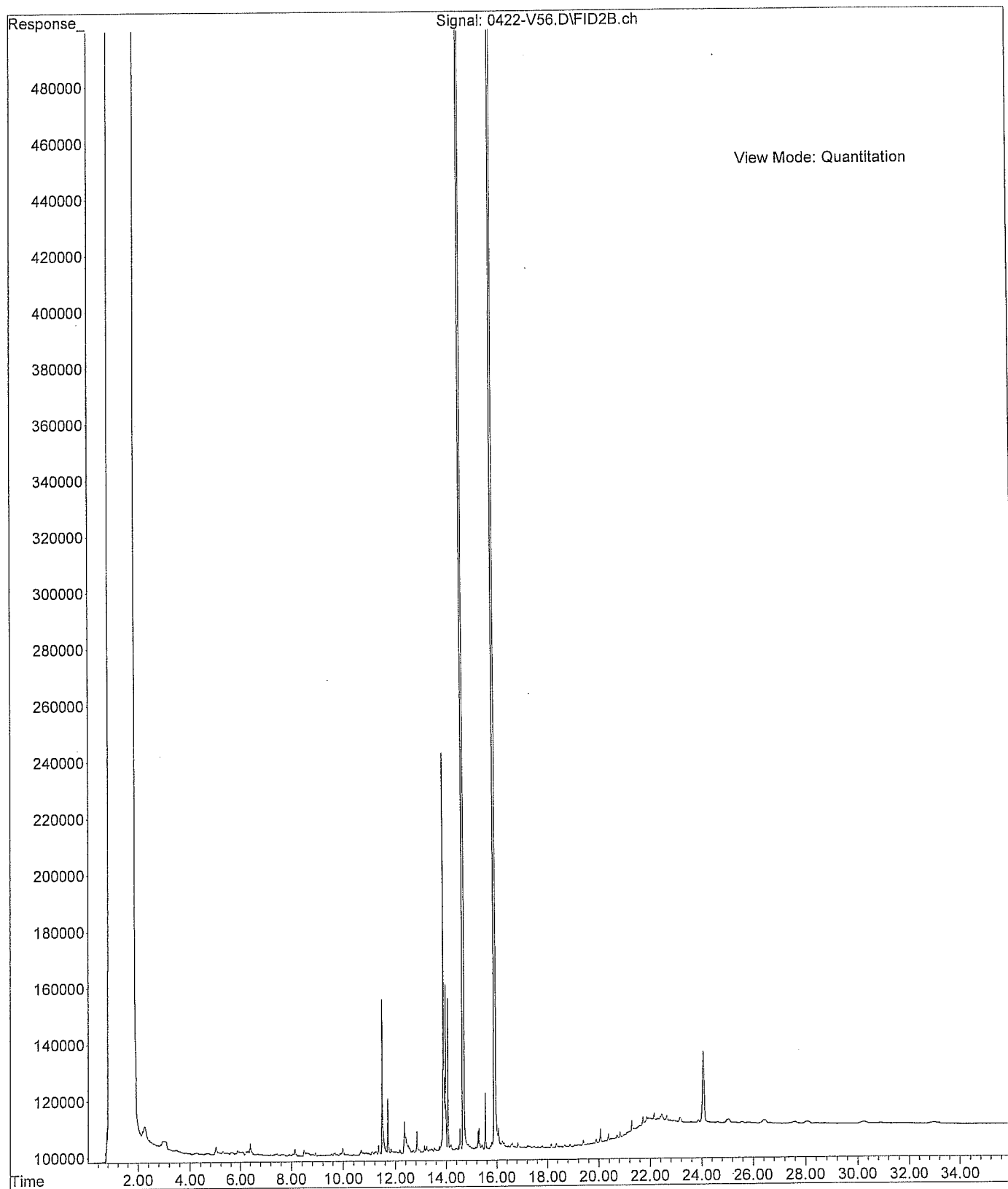
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Instrument : Vigo
Sample Name: 04-128-02
Misc Info :
Vial Number: 4



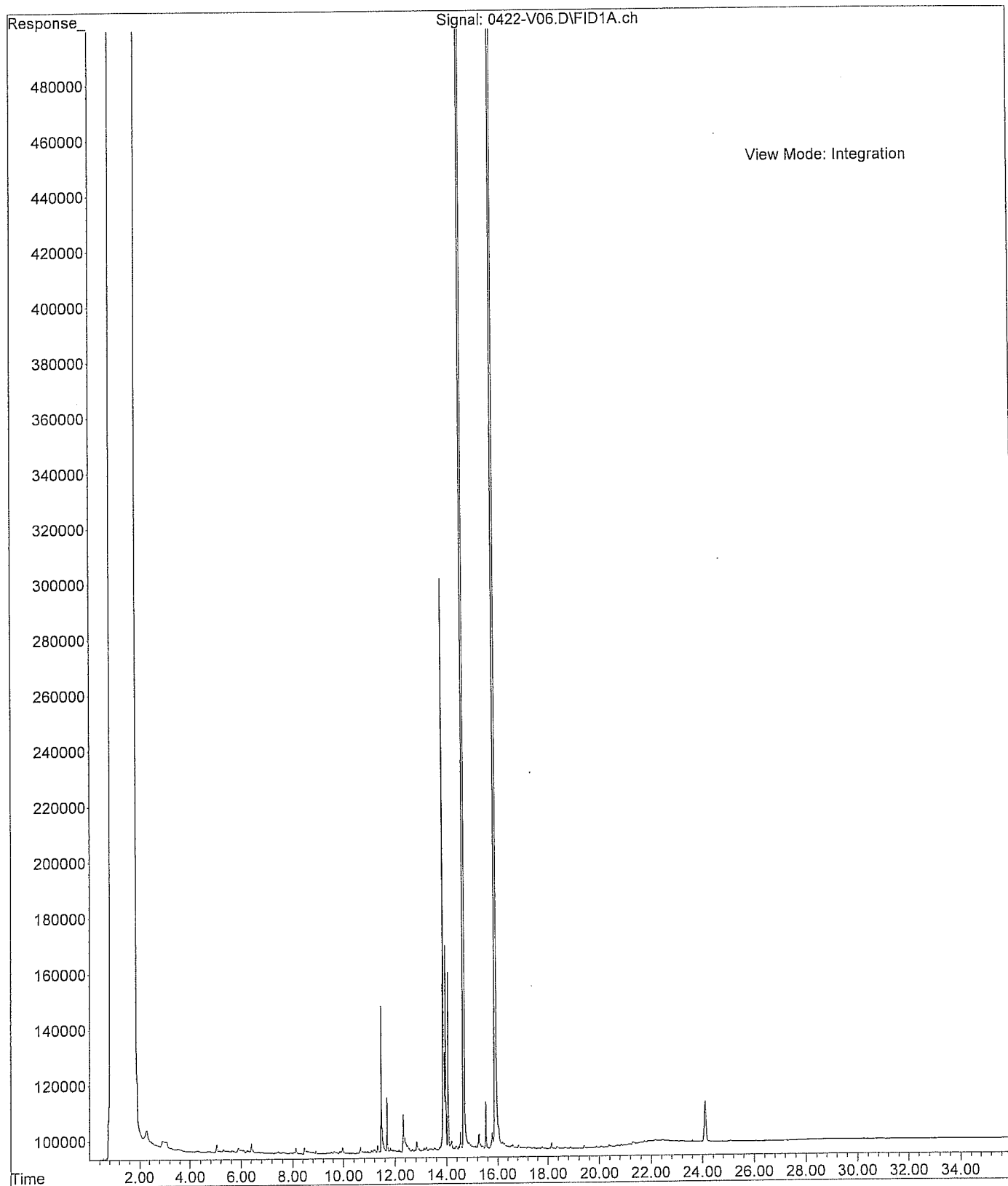
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Instrument : Vigo
Sample Name: 04-128-03
Misc Info :
Vial Number: 5



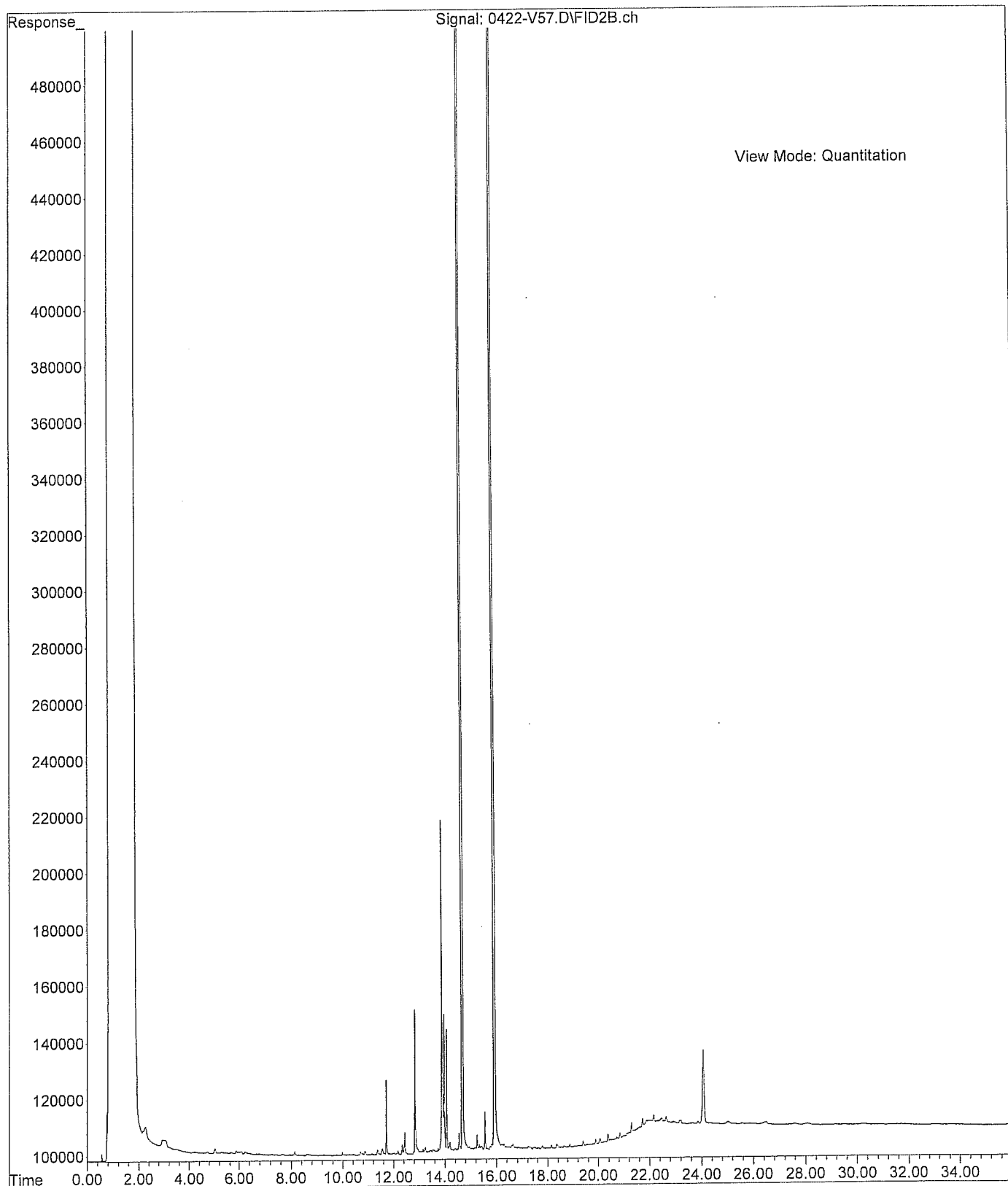
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Acquired : 22 Apr 09 1120 p using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-128-04
Misc Info :
Vial Number: 56



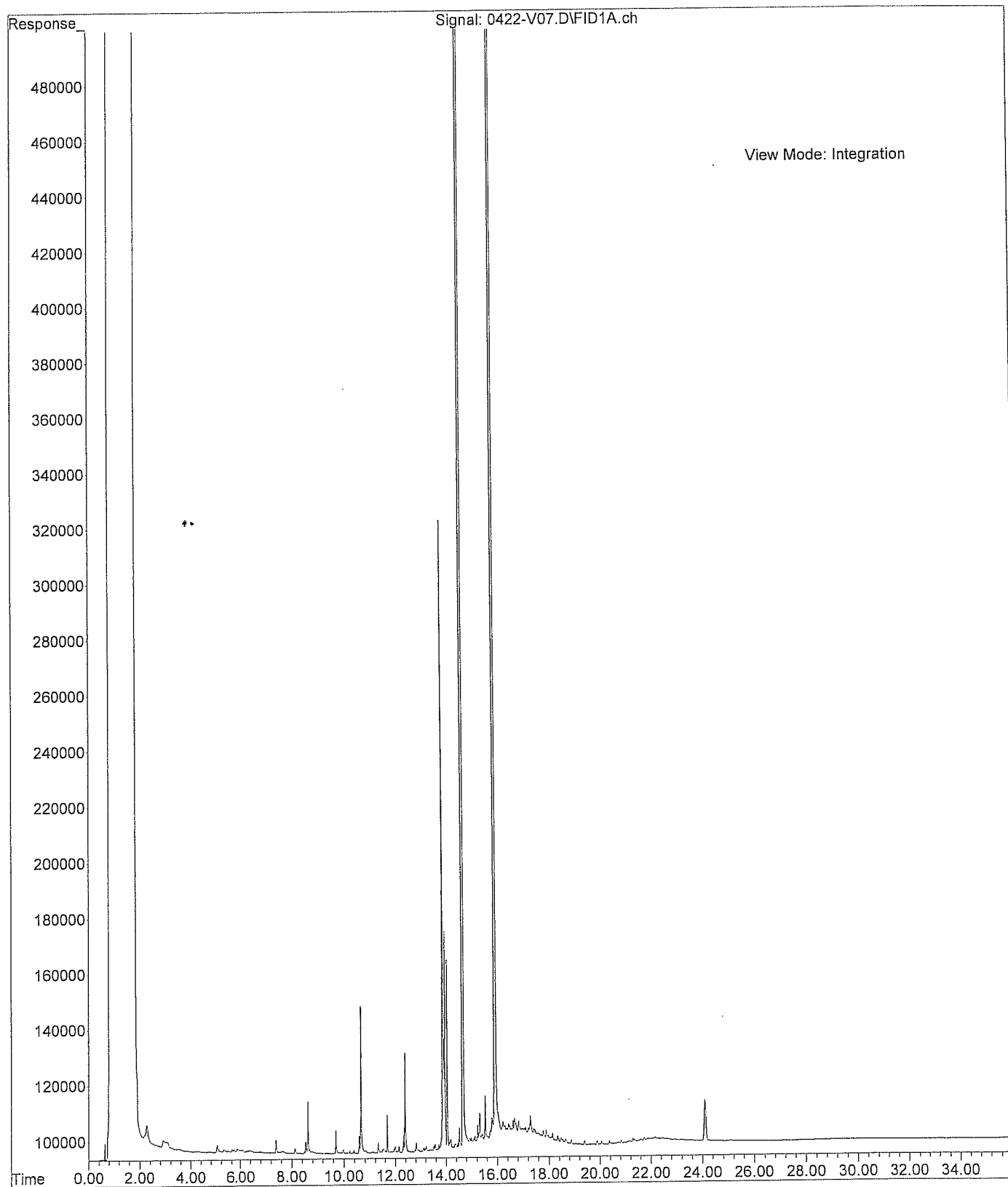
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Acquired : 22 Apr 09 1120 p using AcqMethod V090325F.M.
Instrument : Vigo
Sample Name: 04-128-05
Misc Info :
Vial Number: 6



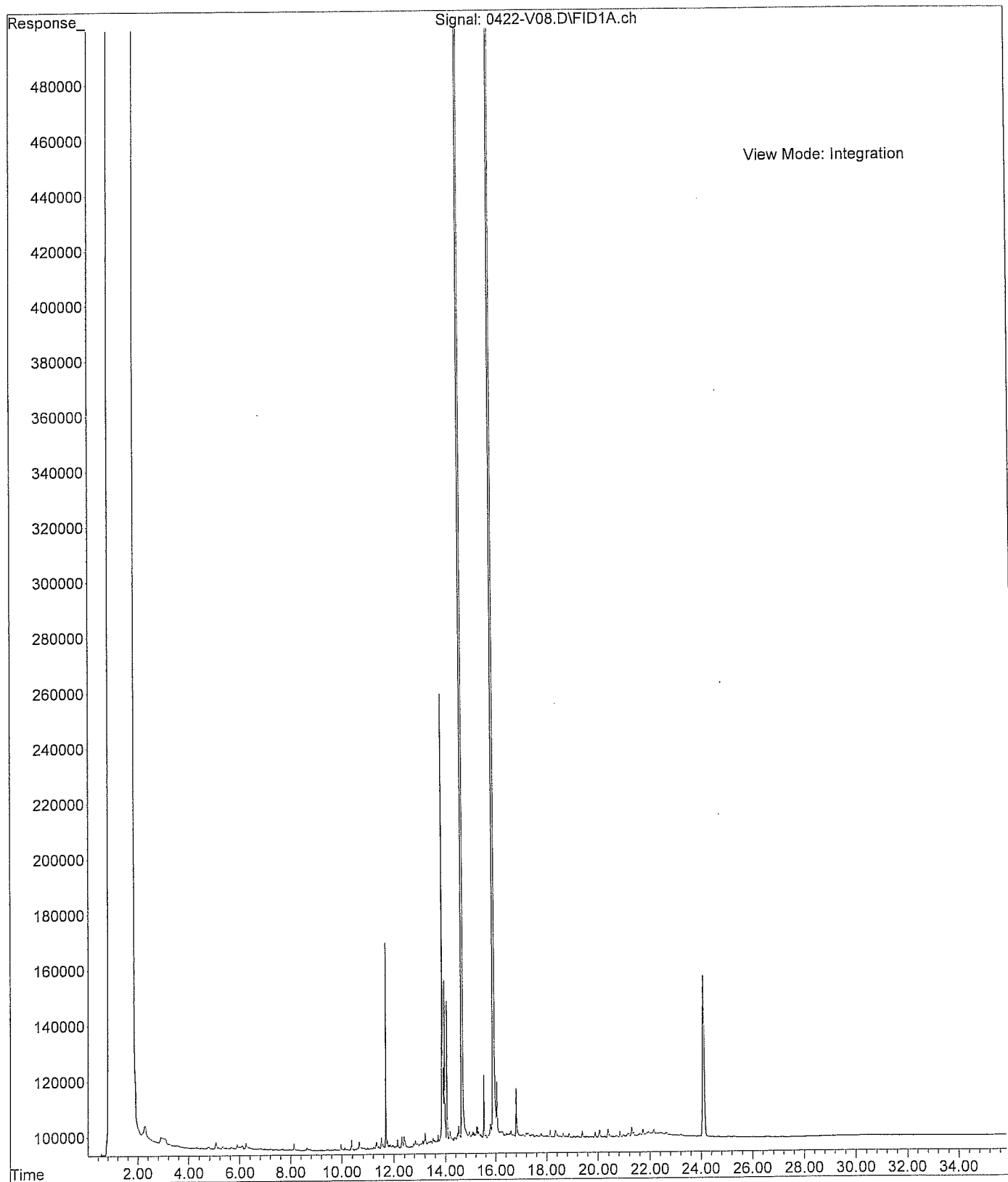
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Operator : ZT
Acquired : 22 Apr 09 1120 p using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-128-06
Misc Info :
Vial Number: 57



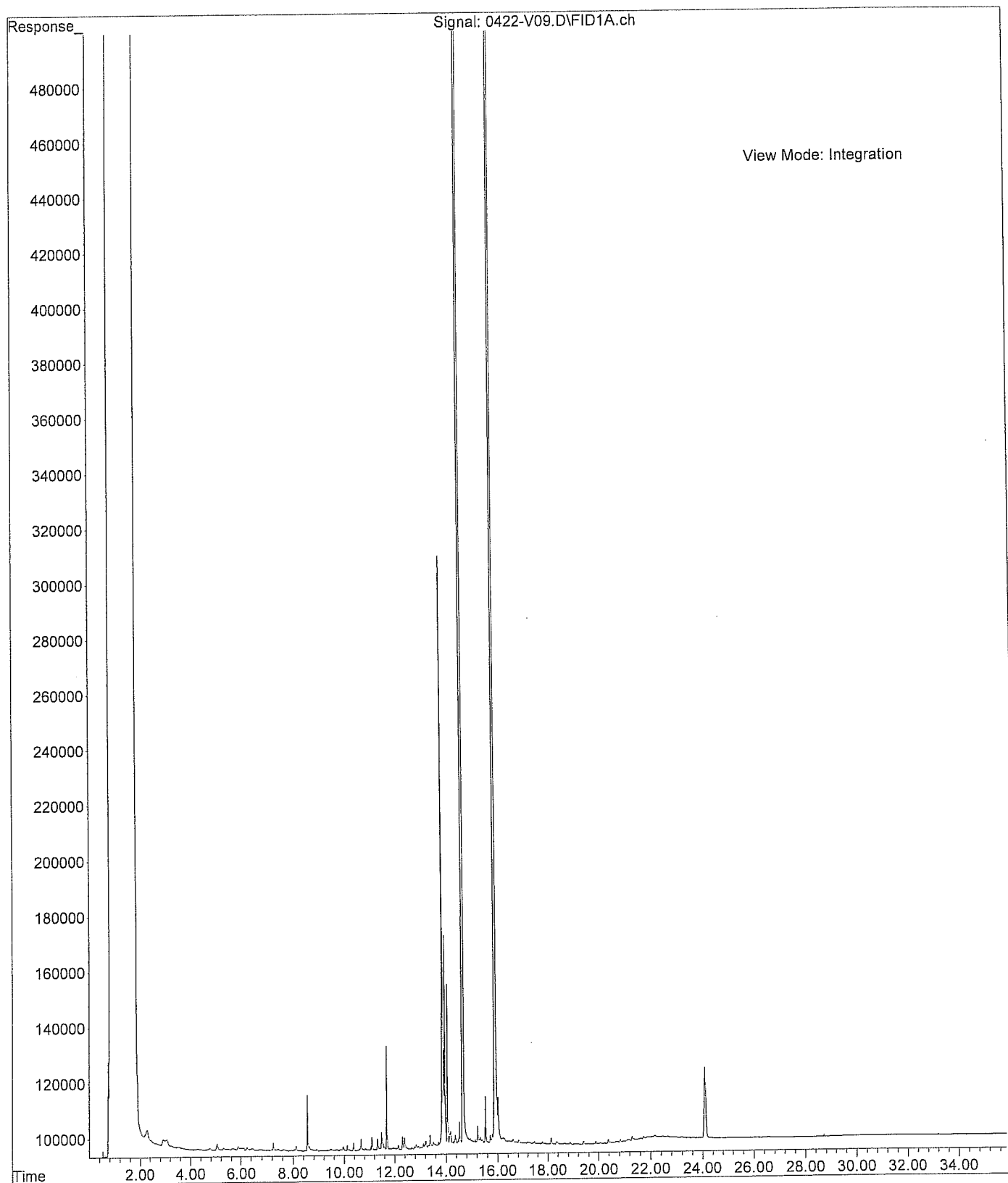
File : C:\msdchem\2\DATA\V090422\0422-V07.D
Operator : ZT
Acquired : 22 Apr 09 1120 p using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-128-07
Misc Info :
Vial Number: 7



File :C:\msdchem\2\DATA\V090422\0422-V08.D
Operator : ZT
Acquired : 22 Apr 09 2129 p using AcqMethod.V090325F.M
Instrument : Vigo
Sample Name: 04-128-08
Misc Info :
Vial Number: 8



File : C:\msdchem\2\DATA\V090422\0422-V09.D
Operator : ZT
Acquired : 22 Apr 09 3129 p using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-128-09
Misc Info :
Vial Number: 9





OnSite Environmental Inc.

Phone: (425) 883-3881 • Fax: (425) 885-4603

Laboratory Number: 04-128

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
(TPH analysis 5 working days)

(other)

Company: AMEC Geomatrix

Project Number: 10654

Project Name: Custom Plywood

Project Manager: Nick Bacher

Sampled by: Nick Bacher

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Com.	NWTPH-HCID	NWTPH-G/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Total PP13 metals	TDS	% Moisture
1	GMX-MW-06-0409	4/15/09	1015	H2O	8	X					X										
2	ANCP-MW-02-0409	4/15/09	1140		8	X					X										
3	GMX-MW-01-0409	4/15/09	1245		8	X					X										
4	GMX-MW-03-0409	4/15/09	1505		8	X					X										
5	GMX-MW-103-0409	4/15/09	1510		8	X					X										
6	ANCP-MW-01-0409	4/16/09	0940		8	X					X										
7	GMX-MW-02-0409	4/16/09	1100		8	X					X										
8	GMX-MW-05-0409	4/16/09	1230		8	X					X										
9	GMX-MW-04-0409	4/16/09	1350		8	X					X										

Signature	Company	Date	Time	Comments/Special Instructions
<i>Nick Bacher</i>	AMEC GMX	4/16/09	1615	
<i>[Signature]</i>	COBE	4/16/09	1615	
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date				Chromatograms with final report <input checked="" type="checkbox"/>

Memo

To: Kathleen Goodman Project: 10654
From: Crystal Neirby cc: Project File
Tel:
Fax:
Date: September 14, 2009

**Subject: Former Custom Plywood Plant, Water Sampling
Summary Data Quality Review – SDGs 0908-200 and 0908-209**

This memorandum presents a summary data quality review for analyses of eleven primary groundwater samples and one field duplicate collected on August 26 and 27, 2009. The samples were submitted to OnSite Environmental Inc. (OnSite), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Redmond, Washington. The samples were analyzed for the following analytes:

- Total Petroleum Hydrocarbons (TPH) as Diesel extended by Ecology Method NWTPH-Dx
- Semivolatile Organic Compounds (SVOCs) by EPA Method 8270D with Polyaromatic Hydrocarbons (PAHs) by EPA Method 8270D with select ion monitoring (SIM)
- Polychlorinated biphenyls (PCBs) by EPA Method 8082.
- Total Metals (EPA Priority Pollution 13 list) by EPA Method 6020 with mercury analyzed using EPA Method 7470A.

The samples associated with these sample delivery groups (SDGs) and a summary of the data quality review are presented in Table 1, attached.

The samples were received within the acceptable temperature range of $4 \pm 2^{\circ}\text{C}$ and there were no sample discrepancies noted by the laboratory upon receipt.

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Final Quality Assurance Project Plan (QAPP), Attachment A2 of Appendix A of the Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, (AMEC, 2008). The most current control limits provided by the laboratory were used to evaluate the quality control data.

Hold times, method blanks, blank spike (BS) and blank spike duplicate (BSD), matrix spike/matrix spike duplicate (MS/MSD) results, surrogate recoveries, laboratory duplicate results, field duplicate results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in

Memo
September 14, 2009
Page 2 of 3

general accordance with the definitions and use of qualifying flags outlined in EPA documents (EPA, 2004 and 2008).

Samples were analyzed for TPH as diesel, SVOCs and PAHs, PCBs, and total metals by the methods identified in the introduction to this report and were evaluated for the following criteria.

1. Holding Times – Acceptable
2. Blanks – Acceptable
3. BS/BSD – Acceptable except as noted:

The laboratory did not report blank spike results if acceptable MS/MSD results were reported. Therefore, BS/BSD results were not reported for total metals analyses. The BS/BSD results reported for the remaining analyses were acceptable.

4. MS/MSD – Acceptable
5. Surrogates – Acceptable except as noted:

PCBs by EPA Method 8082: The surrogate was recovered greater than the control limits of 39-128% in the following samples: GMX-MW-01 at 280%, ANCP-MW-02 at 134%, ANCP-MW-01 at 161%, GMX-MW-04 at 141%, and both the mercury treated and untreated method blanks at 188% and 193%, respectively. There were no PCBs detected in any of the affected samples and since the high surrogate recoveries would indicate high bias, sample results were not qualified.

6. Laboratory Duplicates – Acceptable
7. Field Duplicates – Acceptable

One field duplicate was collected with sample GMX-MW-07 and identified as sample GMX-MW-077. The field duplicate relative percent differences (RPD) are calculated only if both the primary and duplicate results are greater than 5X the reporting limit. Analytes that do not meet this criteria are indicated on the table below with “NC”. In these instances, an alternative evaluation is to determine if the difference between the primary and duplicate exceeds the value of the reporting limit. As shown in the table below, the field duplicate RPDs are acceptable, with the exception of the RPD for m,p-cresol, and the alternative criteria for phenol and fluorene. The m,p-cresol, phenol, and fluorene results in the primary and duplicate sample are qualified as estimated and flagged with a “J”.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (µg/L)	Duplicate Result (µg/L)	Reporting Limit	RPD (%)
GMX-MW-07/GMX-MW-077	phenol	4.4	2.7	1.0	NC
	m,p-cresol	260	120	20	74
	naphthalene	0.23	0.50 U	0.50	NC
	fluorene	1.4	6.1	0.50	NC
	arsenic	1.0 U	2.0	1.0 U	NC

8. Reporting Limits – Acceptable except as noted:

Interferences in the sample matrix prevented quantitation of cPAHs below the project specific practical quantitation limits (PQL) in samples GMX-MW-07-0809 and GMX-MW-08-0809. Additionally, the PQL for arsenic was raised due to interferences for the following samples: ANCP-MW-01-0809, ANCP-MW-02-0809, GMX-MW-04-0809, and GMX-MW-07-0809.

OVERALL ASSESSMENT OF DATA

The OnSite SDGs 0908-200 and 0908-209 are 100% complete. The data usability is based on EPA's guidance documents and the QAPP. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives, with the exceptions specified regarding reporting limits.

REFERENCES

EPA (U.S. Environmental Protection Agency), 1995, Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), Third Edition, September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995; Final Update III, December 1996; Final Update IIIA, April 1998.

EPA, 2004, U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review: EPA 540-R-04-004, October.

EPA, 2004, U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-08-01, June.

AMEC Geomatrix, 2008. Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, September.

Sample ID	Laboratory Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
GMX-MW-03	08-200-01	none			
GMX-MW-05	08-200-02	none			
GMX-MW-06	08-200-03	none			
GMX-MW-07	08-200-04	none			
GMX-MW-08	08-200-05	none			
GMX-MW-077	08-200-06	none			
GMX-MW-02	08-209-01	none			
GMX-MW-09	08-209-02	none			
GMX-MW-01	08-209-03	none			
ANCP-MW-02	08-209-04	none			
ACNP-MW-01	08-209-05	none			
GMX-MW-04	08-209-06	none			



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 8, 2009

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654.001
Laboratory Reference No. 0908-200

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on August 27, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Baumeister', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 8, 2009
Samples Submitted: August 27, 2009
Laboratory Reference: 0908-200
Project: 10654.001

Case Narrative

Samples were collected on August 26, 2009, and received by the laboratory on August 27, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

NWTPH-Dx

Date Extracted: 9-2-09
 Date Analyzed: 9-2-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	GMX-MW-03	GMX-MW-05	GMX-MW-06
Lab ID:	08-200-01	08-200-02	08-200-03
Diesel Range:	ND	ND	ND
PQL:	0.27	0.29	0.27
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.44	0.46	0.43
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	84%	69%	88%
Flags:	Y	Y	Y

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

NWTPH-Dx

Date Extracted: 9-2-09
 Date Analyzed: 9-2-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	GMX-MW-07	GMX-MW-08	GMX-MW-077
Lab ID:	08-200-04	08-200-05	08-200-06
Diesel Range:	ND	0.49	ND
PQL:	0.28	0.29	0.25
Identification:	---	Diesel Range Organics	---
Lube Oil Range:	ND	ND	ND
PQL:	0.45	0.47	0.40
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	76%	80%	101%
Flags:	Y	Y	Y

Date of Report: September 8, 2009
Samples Submitted: August 27, 2009
Laboratory Reference: 0908-200
Project: 10654.001

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-2-09
Date Analyzed: 9-2-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0902W1

Diesel Range: **ND**
PQL: 0.25
Identification: ---

Lube Oil Range: **ND**
PQL: 0.40
Identification: ---

Surrogate Recovery
o-Terphenyl: 94%

Flags: Y

Date of Report: September 8, 2009
Samples Submitted: August 27, 2009
Laboratory Reference: 0908-200
Project: 10654.001

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-2-09
Date Analyzed: 9-2-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: 08-222-01 08-222-01 DUP

Diesel Range: **ND** **ND**
PQL: 0.25 0.25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 81% 89%

Flags: Y Y

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-03					
Laboratory ID:	08-200-01					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pyridine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Phenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
Aniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-28-09	8-29-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachloroethane	ND	1.0	EPA 8270	8-28-09	8-29-09	
Nitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Isophorone	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Naphthalene	3.2	1.0	EPA 8270	8-28-09	8-29-09	
4-Chloroaniline	ND	10	EPA 8270	8-28-09	8-29-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylnaphthalene	1.1	1.0	EPA 8270	8-28-09	8-29-09	
1-Methylnaphthalene	0.78	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-03					
Laboratory ID:	08-200-01					
2,4-Dinitrophenol	ND	10	EPA 8270	8-28-09	8-29-09	
Acenaphthene	3.1	1.0	EPA 8270	8-28-09	8-29-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dibenzofuran	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
Diethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluorene	1.3	1.0	EPA 8270	8-28-09	8-29-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-28-09	8-29-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
Phenanthrene	0.14	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Carbazole	ND	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Benzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-28-09	8-29-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>45</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>43</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>57</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>53</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>66</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>63</i>	<i>47 - 116</i>				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-05					
Laboratory ID:	08-200-02					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pyridine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Phenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
Aniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-28-09	8-29-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachloroethane	ND	1.0	EPA 8270	8-28-09	8-29-09	
Nitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Isophorone	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
4-Chloroaniline	ND	10	EPA 8270	8-28-09	8-29-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-05					
Laboratory ID:	08-200-02					
2,4-Dinitrophenol	ND	10	EPA 8270	8-28-09	8-29-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dibenzofuran	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
Diethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluorene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-28-09	8-29-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Carbazole	ND	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Benzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-28-09	8-29-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Benzo[a]anthracene	0.015	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Chrysene	0.014	0.010	EPA 8270/SIM	8-28-09	9-1-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzo[b]fluoranthene	0.011	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>35</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>36</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>45</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>46</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>58</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>53</i>	<i>47 - 116</i>				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-06					
Laboratory ID:	08-200-03					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pyridine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Phenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
Aniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-28-09	8-29-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachloroethane	ND	1.0	EPA 8270	8-28-09	8-29-09	
Nitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Isophorone	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
4-Chloroaniline	ND	10	EPA 8270	8-28-09	8-29-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
1-Methylnaphthalene	0.17	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	

Date of Report: September 8, 2009
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SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-06					
Laboratory ID:	08-200-03					
2,4-Dinitrophenol	ND	10	EPA 8270	8-28-09	8-29-09	
Acenaphthene	0.18	0.10	EPA 8270/SIM	8-28-09	9-1-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dibenzofuran	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
Diethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluorene	0.12	0.10	EPA 8270/SIM	8-28-09	9-1-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-28-09	8-29-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Carbazole	ND	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Benzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-28-09	8-29-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Benzo[a]anthracene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
Chrysene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>55</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>51</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>66</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>74</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>68</i>	<i>47 - 116</i>				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-07					
Laboratory ID:	08-200-04					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pyridine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Phenol	4.4	1.0	EPA 8270	8-28-09	8-29-09	
Aniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
(3+4)-Methylphenol (m,p-Cresol)	260	10	EPA 8270	8-28-09	8-31-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachloroethane	ND	1.0	EPA 8270	8-28-09	8-29-09	
Nitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Isophorone	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Naphthalene	0.23	0.10	EPA 8270/SIM	8-28-09	9-1-09	
4-Chloroaniline	ND	10	EPA 8270	8-28-09	8-29-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	

Date of Report: September 8, 2009
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-07					
Laboratory ID:	08-200-04					
2,4-Dinitrophenol	ND	10	EPA 8270	8-28-09	8-29-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dibenzofuran	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
Diethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluorene	1.4	1.0	EPA 8270	8-28-09	8-29-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-28-09	8-29-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Carbazole	ND	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Benzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-28-09	9-1-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-28-09	8-29-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Benzo[a]anthracene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
Chrysene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-28-09	9-1-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>62</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>58</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>78</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>67</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>81</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>47 - 116</i>				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-08					
Laboratory ID:	08-200-05					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pyridine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Phenol	5.4	1.0	EPA 8270	8-28-09	8-29-09	
Aniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-28-09	8-29-09	
(3+4)-Methylphenol (m,p-Cresol)	1600	50	EPA 8270	8-28-09	8-31-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachloroethane	ND	1.0	EPA 8270	8-28-09	8-29-09	
Nitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Isophorone	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dimethylphenol	25	1.0	EPA 8270	8-28-09	8-29-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Naphthalene	220	50	EPA 8270	8-28-09	8-31-09	
4-Chloroaniline	ND	10	EPA 8270	8-28-09	8-29-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Methylnaphthalene	44	1.0	EPA 8270	8-28-09	8-29-09	
1-Methylnaphthalene	24	1.0	EPA 8270	8-28-09	8-29-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Acenaphthylene	ND	0.50	EPA 8270/SIM	8-28-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-08					
Laboratory ID:	08-200-05					
2,4-Dinitrophenol	ND	10	EPA 8270	8-28-09	8-29-09	
Acenaphthene	29	1.0	EPA 8270	8-28-09	8-29-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Dibenzofuran	14	1.0	EPA 8270	8-28-09	8-29-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-29-09	
Diethylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluorene	19	1.0	EPA 8270	8-28-09	8-29-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-28-09	8-29-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-28-09	8-29-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-29-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-28-09	8-29-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-28-09	8-29-09	
Phenanthrene	18	1.0	EPA 8270	8-28-09	8-29-09	
Anthracene	0.82	0.50	EPA 8270/SIM	8-28-09	9-3-09	
Carbazole	4.0	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Fluoranthene	3.4	1.0	EPA 8270	8-28-09	8-29-09	
Benzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Pyrene	1.7	1.0	EPA 8270	8-28-09	8-29-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-28-09	8-29-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-28-09	8-29-09	
Benzo[a]anthracene	0.19	0.050	EPA 8270/SIM	8-28-09	9-3-09	
Chrysene	0.12	0.050	EPA 8270/SIM	8-28-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-28-09	8-29-09	
Benzo[b]fluoranthene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
Benzo[k]fluoranthene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
Benzo[a]pyrene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.050	EPA 8270/SIM	8-28-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>68</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>65</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>102</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>78</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>100</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>80</i>	<i>47 - 116</i>				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-077					
Laboratory ID:	08-200-06					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-31-09	9-1-09	
Pyridine	ND	1.0	EPA 8270	8-31-09	9-1-09	
Phenol	2.7	1.0	EPA 8270	8-31-09	9-1-09	
Aniline	ND	1.0	EPA 8270	8-31-09	9-1-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-31-09	9-1-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-31-09	9-1-09	
(3+4)-Methylphenol (m,p-Cresol)	120	20	EPA 8270	8-31-09	9-2-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-31-09	9-1-09	
Hexachloroethane	ND	1.0	EPA 8270	8-31-09	9-1-09	
Nitrobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Isophorone	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Naphthalene	ND	0.50	EPA 8270/SIM	8-31-09	9-3-09	
4-Chloroaniline	ND	10	EPA 8270	8-31-09	9-1-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-31-09	9-1-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Methylnaphthalene	ND	0.50	EPA 8270/SIM	8-31-09	9-3-09	
1-Methylnaphthalene	ND	0.50	EPA 8270/SIM	8-31-09	9-3-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Acenaphthylene	ND	0.50	EPA 8270/SIM	8-31-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-31-09	9-1-09	

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
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SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-077					
Laboratory ID:	08-200-06					
2,4-Dinitrophenol	ND	10	EPA 8270	8-31-09	9-1-09	
Acenaphthene	ND	0.50	EPA 8270/SIM	8-31-09	9-3-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Dibenzofuran	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
Diethylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-31-09	9-1-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-31-09	9-1-09	
Fluorene	6.1	0.50	EPA 8270/SIM	8-31-09	9-3-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-31-09	9-1-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-31-09	9-1-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-31-09	9-1-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-31-09	9-1-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-31-09	9-1-09	
Phenanthrene	ND	0.50	EPA 8270/SIM	8-31-09	9-3-09	
Anthracene	ND	0.50	EPA 8270/SIM	8-31-09	9-3-09	
Carbazole	ND	1.0	EPA 8270	8-31-09	9-1-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
Fluoranthene	ND	0.50	EPA 8270/SIM	8-31-09	9-3-09	
Benzidine	ND	10	EPA 8270	8-31-09	9-1-09	
Pyrene	ND	0.50	EPA 8270/SIM	8-31-09	9-3-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-31-09	9-1-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-31-09	9-1-09	
Benzo[a]anthracene	ND	0.050	EPA 8270/SIM	8-31-09	9-3-09	
Chrysene	ND	0.050	EPA 8270/SIM	8-31-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
Benzo[b]fluoranthene	ND	0.050	EPA 8270/SIM	8-31-09	9-3-09	
Benzo[k]fluoranthene	ND	0.050	EPA 8270/SIM	8-31-09	9-3-09	
Benzo[a]pyrene	ND	0.050	EPA 8270/SIM	8-31-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.050	EPA 8270/SIM	8-31-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.050	EPA 8270/SIM	8-31-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.050	EPA 8270/SIM	8-31-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>40</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>42</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>51</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>54</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>70</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>47 - 116</i>				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0828W1					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-28-09	8-28-09	
Pyridine	ND	1.0	EPA 8270	8-28-09	8-28-09	
Phenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
Aniline	ND	1.0	EPA 8270	8-28-09	8-28-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-28-09	8-28-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-28-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-28-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-28-09	8-28-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-28-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-28-09	8-28-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-28-09	8-28-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-28-09	8-28-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-28-09	8-28-09	
Hexachloroethane	ND	1.0	EPA 8270	8-28-09	8-28-09	
Nitrobenzene	ND	1.0	EPA 8270	8-28-09	8-28-09	
Isophorone	ND	1.0	EPA 8270	8-28-09	8-28-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-28-09	8-28-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-28-09	8-28-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
4-Chloroaniline	ND	10	EPA 8270	8-28-09	8-28-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-28-09	8-28-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-28-09	8-28-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-28-09	8-28-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-28-09	8-28-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-28-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-28-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-28-09	8-28-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-28-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-28-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-28-09	8-28-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-28-09	

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
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SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0828W1					
2,4-Dinitrophenol	ND	10	EPA 8270	8-28-09	8-28-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-28-09	8-28-09	
Dibenzofuran	ND	1.0	EPA 8270	8-28-09	8-28-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-28-09	8-28-09	
Diethylphthalate	ND	1.0	EPA 8270	8-28-09	8-28-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-28-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-28-09	8-28-09	
Fluorene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-28-09	8-28-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-28-09	8-28-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-28-09	8-28-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-28-09	8-28-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-28-09	8-28-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-28-09	8-28-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
Carbazole	ND	1.0	EPA 8270	8-28-09	8-28-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-28-09	8-28-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
Benzidine	ND	10	EPA 8270	8-28-09	8-28-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-28-09	8-31-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-28-09	8-28-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-28-09	8-28-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-28-09	8-28-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-28-09	8-31-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-28-09	8-31-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-28-09	8-28-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-28-09	8-28-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-28-09	8-31-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-28-09	8-31-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	8-31-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-28-09	8-31-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-28-09	8-31-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-28-09	8-31-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>48</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>38</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>71</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>81</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>47 - 116</i>				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0831W1					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-31-09	9-1-09	
Pyridine	ND	1.0	EPA 8270	8-31-09	9-1-09	
Phenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
Aniline	ND	1.0	EPA 8270	8-31-09	9-1-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-31-09	9-1-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-31-09	9-1-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-31-09	9-1-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-31-09	9-1-09	
Hexachloroethane	ND	1.0	EPA 8270	8-31-09	9-1-09	
Nitrobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Isophorone	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
4-Chloroaniline	ND	10	EPA 8270	8-31-09	9-1-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-31-09	9-1-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-31-09	9-1-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-31-09	9-1-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-31-09	9-1-09	

Date of Report: September 8, 2009
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SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0831W1					
2,4-Dinitrophenol	ND	10	EPA 8270	8-31-09	9-1-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Dibenzofuran	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-31-09	9-1-09	
Diethylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-31-09	9-1-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-31-09	9-1-09	
Fluorene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-31-09	9-1-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-31-09	9-1-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-31-09	9-1-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-31-09	9-1-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-31-09	9-1-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-31-09	9-1-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
Carbazole	ND	1.0	EPA 8270	8-31-09	9-1-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
Benzidine	ND	10	EPA 8270	8-31-09	9-1-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-31-09	9-3-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-31-09	9-1-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-31-09	9-1-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-31-09	9-3-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-31-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-31-09	9-1-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-31-09	9-3-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-31-09	9-3-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-31-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-31-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-31-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-31-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>56</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>42</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>82</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>75</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>87</i>	<i>47 - 116</i>				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0828W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	15.5	18.0	40.0	40.0	39	45	17 - 69	15	34	
2-Chlorophenol	25.9	31.2	40.0	40.0	65	78	36 - 104	19	36	
1,4-Dichlorobenzene	11.9	14.4	20.0	20.0	60	72	29 - 90	19	34	
N-Nitroso-di-n-propylamine	12.8	14.4	20.0	20.0	64	72	34 - 101	12	38	
1,2,4-Trichlorobenzene	11.9	14.0	20.0	20.0	60	70	30 - 97	16	42	
4-Chloro-3-methylphenol	30.5	31.3	40.0	40.0	76	78	56 - 106	3	26	
Acenaphthene	13.9	15.0	20.0	20.0	70	75	46 - 94	8	34	
4-Nitrophenol	21.7	23.0	40.0	40.0	54	58	17 - 100	6	38	
2,4-Dinitrotoluene	17.7	18.5	20.0	20.0	89	93	50 - 121	4	18	
Pentachlorophenol	31.6	34.1	40.0	40.0	79	85	37 - 132	8	32	
Pyrene	16.7	17.4	20.0	20.0	84	87	65 - 108	4	18	
<i>Surrogate:</i>										
<i>2-Fluorophenol</i>					47	55	12 - 91			
<i>Phenol-d6</i>					37	42	10 - 102			
<i>Nitrobenzene-d5</i>					68	76	27 - 115			
<i>2-Fluorobiphenyl</i>					65	70	37 - 111			
<i>2,4,6-Tribromophenol</i>					80	79	48 - 121			
<i>Terphenyl-d14</i>					80	83	47 - 116			

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					SB	SBD	SB	SBD	SB	
SPIKE BLANKS										
Laboratory ID:	SB0831W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	13.9	16.0	40.0	40.0	35	40	17 - 69	14	34	
2-Chlorophenol	22.9	27.9	40.0	40.0	57	70	36 - 104	20	36	
1,4-Dichlorobenzene	10.4	12.8	20.0	20.0	52	64	29 - 90	21	34	
N-Nitroso-di-n-propylamine	13.6	15.0	20.0	20.0	68	75	34 - 101	10	38	
1,2,4-Trichlorobenzene	9.55	11.7	20.0	20.0	48	59	30 - 97	20	42	
4-Chloro-3-methylphenol	28.5	28.8	40.0	40.0	71	72	56 - 106	1	26	
Acenaphthene	12.2	12.7	20.0	20.0	61	64	46 - 94	4	34	
4-Nitrophenol	15.9	16.8	40.0	40.0	40	42	17 - 100	6	38	
2,4-Dinitrotoluene	14.7	14.7	20.0	20.0	74	74	50 - 121	0	18	
Pentachlorophenol	25.1	25.9	40.0	40.0	63	65	37 - 132	3	32	
Pyrene	15.4	15.5	20.0	20.0	77	78	65 - 108	1	18	
<i>Surrogate:</i>										
<i>2-Fluorophenol</i>					43	50	12 - 91			
<i>Phenol-d6</i>					32	37	10 - 102			
<i>Nitrobenzene-d5</i>					61	72	27 - 115			
<i>2-Fluorobiphenyl</i>					58	60	37 - 111			
<i>2,4,6-Tribromophenol</i>					64	63	48 - 121			
<i>Terphenyl-d14</i>					73	72	47 - 116			

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Lab Traveler: 0908-200
 Project: 10654.001

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-03					
Laboratory ID:	08-200-01					
Aroclor 1016	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1221	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1232	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1242	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1248	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1254	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1260	ND	0.052	EPA 8082	8-27-09	8-28-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	83	39-128				
Client ID:	GMX-MW-05					
Laboratory ID:	08-200-02					
Aroclor 1016	ND	0.054	EPA 8082	8-27-09	8-28-09	
Aroclor 1221	ND	0.054	EPA 8082	8-27-09	8-28-09	
Aroclor 1232	ND	0.054	EPA 8082	8-27-09	8-28-09	
Aroclor 1242	ND	0.054	EPA 8082	8-27-09	8-28-09	
Aroclor 1248	ND	0.054	EPA 8082	8-27-09	8-28-09	
Aroclor 1254	ND	0.054	EPA 8082	8-27-09	8-28-09	
Aroclor 1260	ND	0.054	EPA 8082	8-27-09	8-28-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	39	39-128				
Client ID:	GMX-MW-06					
Laboratory ID:	08-200-03					
Aroclor 1016	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1221	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1232	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1242	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1248	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1254	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1260	ND	0.052	EPA 8082	8-27-09	8-28-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	77	39-128				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Lab Traveler: 0908-200
 Project: 10654.001

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-07					
Laboratory ID:	08-200-04					
Aroclor 1016	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1221	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1232	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1242	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1248	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1254	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1260	ND	0.052	EPA 8082	8-27-09	8-28-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	104	39-128				
Client ID:	GMX-MW-08					
Laboratory ID:	08-200-05					
Aroclor 1016	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1221	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1232	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1242	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1248	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1254	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1260	ND	0.050	EPA 8082	8-27-09	8-28-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	93	39-128				
Client ID:	GMX-MW-077					
Laboratory ID:	08-200-06					
Aroclor 1016	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1221	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1232	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1242	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1248	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1254	ND	0.052	EPA 8082	8-27-09	8-28-09	X
Aroclor 1260	ND	0.052	EPA 8082	8-27-09	8-28-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	107	39-128				

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Lab Traveler: 0908-200
 Project: 10654.001

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827W1					
Aroclor 1016	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1221	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1232	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1242	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1248	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1254	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1260	ND	0.050	EPA 8082	8-27-09	8-28-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>109</i>	<i>39-128</i>				

METHOD BLANK

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827W1					
Aroclor 1016	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1221	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1232	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1242	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1248	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1254	ND	0.050	EPA 8082	8-27-09	8-28-09	X
Aroclor 1260	ND	0.050	EPA 8082	8-27-09	8-28-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>119</i>	<i>39-128</i>				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0827W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.499	0.521	0.500	0.500	N/A	100	104	58-113	4	11	
<i>Surrogate:</i>											
<i>DCB</i>						99	105	39-128			

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-200-01
 Client ID: GMX-MW-03

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	1.3	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-200-02
 Client ID: GMX-MW-05

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	3.0	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	8.0	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-200-03
 Client ID: GMX-MW-06

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	4.4	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	5.9	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-200-04
 Client ID: GMX-MW-07

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,
 and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-200-05
 Client ID: GMX-MW-08

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	2.8	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	6.6	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-200-06
 Client ID: GMX-MW-077

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	2.0	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 8, 2009
Samples Submitted: August 27, 2009
Laboratory Reference: 0908-200
Project: 10654.001

**TOTAL METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-28&9-2-09
Date Analyzed: 9-2,4&8-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0828W1

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Beryllium	6020	ND	2.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 8, 2009
Samples Submitted: August 27, 2009
Laboratory Reference: 0908-200
Project: 10654.001

**TOTAL METALS
EPA 6020/7470A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-2-09
Date Analyzed: 9-2&4-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0902W2&MB0902W3

Analyte	Method	Result	PQL
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**TOTAL METALS
 EPA 6020
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-043-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	133	132	1	1.0	
Beryllium	ND	ND	NA	2.0	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	ND	NA	3.0	
Nickel	ND	ND	NA	8.0	
Selenium	ND	ND	NA	2.0	
Silver	ND	ND	NA	8.0	
Thallium	ND	ND	NA	5.0	
Zinc	31.9	35.9	12	25	

Date of Report: September 8, 2009
Samples Submitted: August 27, 2009
Laboratory Reference: 0908-200
Project: 10654.001

**TOTAL METALS
EPA 6020/7470A
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-2-09
Date Analyzed: 9-2&4-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-209-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.125	

Date of Report: September 8, 2009
 Samples Submitted: August 27, 2009
 Laboratory Reference: 0908-200
 Project: 10654.001

**TOTAL METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-043-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	105	105	105	105	0	
Arsenic	100	235	102	223	90	5	
Beryllium	100	105	105	103	103	2	
Cadmium	100	106	106	103	103	3	
Chromium	100	109	109	110	110	1	
Copper	100	97.7	98	94.8	95	3	
Nickel	100	113	113	110	110	3	
Selenium	100	102	102	95.1	95	7	
Silver	100	109	109	105	105	3	
Thallium	100	109	109	104	104	4	
Zinc	100	129	97	119	88	8	

Date of Report: September 8, 2009
Samples Submitted: August 27, 2009
Laboratory Reference: 0908-200
Project: 10654.001

**TOTAL METALS
EPA 6020/7470A
MS/MSD QUALITY CONTROL**

Date Extracted: 9-2-09
Date Analyzed: 9-2&4-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-209-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	110	84.4	77	98.3	89	15	
Mercury	12.5	12.1	97	12.1	97	0	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Phone: (425) 883-3881 • Fax: (425) 885-4603

Chain of Custody

Laboratory Number: 08-200

Company: AMEC Geomatrix

Project Number: 106574.001

Project Name: Custom Plywood

Project Manager: Kathleen Goodman

Sampled by: Emerald Erickson

Turnaround Request (in working days)

- Same Day 1 Day
- 2 Day 3 Day
- Standard (7 working days) (TPH analysis 5 working days)
- (other)

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-Dx + Motor Oil	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total PCBs Metals (8)	pp Metals (13)	TCLP Metals	HEM by 1664	% Moisture
1	GMX-MW-03	8/26/09	3:50pm	Water	5			X			X		X			X				
2	GMX-MW-05	8/26/09	4:50pm	Water	5			X			X		X			X				
3	GMX-MW-06	8/26/09	6:00pm	Water	5			X			X		X			X				
4	GMX-MW-07	8/26/09	2:20pm	Water	5			X			X		X			X				
5	GMX-MW-04	8/26/09	1:20pm	Water	5			X			X		X			X				
6	GMX-MW-077	8/26/09	2:30pm	Water	5			X			X		X			X				

Comments/Special Instructions

Do not want preservative in the 500 ml Poly containers for Total Metals!

Signature	Company	Date	Time
<i>Emerald Erickson</i>	AMEC Geomatrix	8/27/09	8:00am
<i>Kathleen Goodman</i>	AMEC Geomatrix	8/27/09	8:00am

Reviewed by/Date

Chromatograms with final report

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 9, 2009

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654.001
Laboratory Reference No. 0908-209

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on August 28, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Baumeister', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 9, 2009
Samples Submitted: August 28, 2009
Laboratory Reference: 0908-209
Project: 10654.001

Case Narrative

Samples were collected on August 27, 2009, and received by the laboratory on August 28, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PCBs EPA 8082 Analysis

The surrogate recoveries for the Method Blank and the samples GMX-MW-01, ANCP-MW-02, ANCP-MW-01 and GMX-MW-04 were above the quality control limits of 39 – 128%. Since the samples were non-detect for PCBs and the surrogate recoveries showed high bias, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

NWTPH-Dx

Date Extracted: 8-29-09
 Date Analyzed: 8-31-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	GMX-MW-02	GMX-MW-09	GMX-MW-01
Lab ID:	08-209-01	08-209-02	08-209-03
Diesel Range:	ND	ND	ND
PQL:	0.27	0.26	0.25
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.42	0.41	0.40
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	84%	95%	96%
Flags:	Y	Y	Y

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

NWTPH-Dx

Date Extracted: 8-29-09
 Date Analyzed: 8-31-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	ANCP-MW-02	ANCP-MW-01	GMX-MW-04
Lab ID:	08-209-04	08-209-05	08-209-06
Diesel Range:	ND	ND	ND
PQL:	0.26	0.26	0.28
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.41	0.42	0.44
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	78%	70%	87%
Flags:	Y	Y	Y

Date of Report: September 9, 2009
Samples Submitted: August 28, 2009
Laboratory Reference: 0908-209
Project: 10654.001

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-29-09
Date Analyzed: 8-31-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0829W1

Diesel Range: **ND**
PQL: 0.25
Identification: ---

Lube Oil Range: **ND**
PQL: 0.40
Identification: ---

Surrogate Recovery
o-Terphenyl: 83%

Flags: Y

Date of Report: September 9, 2009
Samples Submitted: August 28, 2009
Laboratory Reference: 0908-209
Project: 10654.001

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-29-09
Date Analyzed: 8-31-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: 08-206-02 08-206-02

Diesel Range: **ND** **ND**
PQL: 0.26 0.26

RPD: N/A

Surrogate Recovery
o-Terphenyl: 125% 81%

Flags: Y Y

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-02					
Laboratory ID:	08-209-01					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pyridine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Phenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Aniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
(3+4)-Methylphenol (m,p-Cresol)	1.0	1.0	EPA 8270	8-29-09	8-31-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachloroethane	ND	1.0	EPA 8270	8-29-09	8-31-09	
Nitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Isophorone	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Naphthalene	0.29	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Chloroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-02					
Laboratory ID:	08-209-01					
2,4-Dinitrophenol	ND	10	EPA 8270	8-29-09	8-31-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dibenzofuran	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Diethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluorene	0.17	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-29-09	8-31-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Carbazole	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Benzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-29-09	8-31-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>68</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>62</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>80</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>66</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>74</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>70</i>	<i>47 - 116</i>				

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-09					
Laboratory ID:	08-209-02					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pyridine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Phenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Aniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
(3+4)-Methylphenol (m,p-Cresol)	5.3	1.0	EPA 8270	8-29-09	8-31-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachloroethane	ND	1.0	EPA 8270	8-29-09	8-31-09	
Nitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Isophorone	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Chloroaniline	ND	10	EPA 8270	8-29-09	8-31-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-09					
Laboratory ID:	08-209-02					
2,4-Dinitrophenol	ND	10	EPA 8270	8-29-09	8-31-09	
Acenaphthene	0.12	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Nitrophenol	2.8	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dibenzofuran	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Diethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluorene	0.55	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-29-09	8-31-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Carbazole	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Benzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Pyrene	0.12	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-29-09	8-31-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>53</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>52</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>62</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>63</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>83</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>77</i>	<i>47 - 116</i>				

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-01					
Laboratory ID:	08-209-03					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pyridine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Phenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Aniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachloroethane	ND	1.0	EPA 8270	8-29-09	8-31-09	
Nitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Isophorone	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Chloroaniline	ND	10	EPA 8270	8-29-09	8-31-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-01					
Laboratory ID:	08-209-03					
2,4-Dinitrophenol	ND	10	EPA 8270	8-29-09	8-31-09	
Acenaphthene	1.9	1.0	EPA 8270	8-29-09	8-31-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dibenzofuran	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Diethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluorene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-29-09	8-31-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Carbazole	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Benzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-29-09	8-31-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>37</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>38</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>42</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>41</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>60</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>65</i>	<i>47 - 116</i>				

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ANCP-MW-02					
Laboratory ID:	08-209-04					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pyridine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Phenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Aniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachloroethane	ND	1.0	EPA 8270	8-29-09	8-31-09	
Nitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Isophorone	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Chloroaniline	ND	10	EPA 8270	8-29-09	8-31-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ANCP-MW-02					
Laboratory ID:	08-209-04					
2,4-Dinitrophenol	ND	10	EPA 8270	8-29-09	8-31-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dibenzofuran	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Diethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluorene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-29-09	8-31-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Carbazole	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Benzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Pyrene	0.24	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-29-09	8-31-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>56</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>55</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>67</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>59</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>68</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>70</i>	<i>47 - 116</i>				

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ANCP-MW-01					
Laboratory ID:	08-209-05					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pyridine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Phenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Aniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachloroethane	ND	1.0	EPA 8270	8-29-09	8-31-09	
Nitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Isophorone	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Chloroaniline	ND	10	EPA 8270	8-29-09	8-31-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ANCP-MW-01					
Laboratory ID:	08-209-05					
2,4-Dinitrophenol	ND	10	EPA 8270	8-29-09	8-31-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dibenzofuran	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Diethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluorene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-29-09	8-31-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Carbazole	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Benzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-29-09	8-31-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>57</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>58</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>67</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>70</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>47 - 116</i>				

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-04					
Laboratory ID:	08-209-06					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pyridine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Phenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Aniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-29-09	8-31-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-29-09	8-31-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachloroethane	ND	1.0	EPA 8270	8-29-09	8-31-09	
Nitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Isophorone	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Chloroaniline	ND	10	EPA 8270	8-29-09	8-31-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-04					
Laboratory ID:	08-209-06					
2,4-Dinitrophenol	ND	10	EPA 8270	8-29-09	8-31-09	
Acenaphthene	0.33	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Dibenzofuran	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-31-09	
Diethylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluorene	0.11	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-29-09	8-31-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-29-09	8-31-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-31-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-29-09	8-31-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-29-09	8-31-09	
Phenanthrene	0.19	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Carbazole	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Benzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Pyrene	0.23	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-29-09	8-31-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-29-09	8-31-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-29-09	8-31-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>49</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>51</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>54</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>51</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>59</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>64</i>	<i>47 - 116</i>				

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829W1					
N-Nitrosodimethylamine	ND	1.0	EPA 8270	8-29-09	8-29-09	
Pyridine	ND	1.0	EPA 8270	8-29-09	8-29-09	
Phenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
Aniline	ND	1.0	EPA 8270	8-29-09	8-29-09	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	8-29-09	8-29-09	
2-Chlorophenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-29-09	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-29-09	
Benzyl alcohol	ND	1.0	EPA 8270	8-29-09	8-29-09	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-29-09	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	8-29-09	8-29-09	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	8-29-09	8-29-09	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	8-29-09	8-29-09	
N-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	8-29-09	8-29-09	
Hexachloroethane	ND	1.0	EPA 8270	8-29-09	8-29-09	
Nitrobenzene	ND	1.0	EPA 8270	8-29-09	8-29-09	
Isophorone	ND	1.0	EPA 8270	8-29-09	8-29-09	
2-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
2,4-Dimethylphenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	8-29-09	8-29-09	
2,4-Dichlorophenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	8-29-09	8-29-09	
Naphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Chloroaniline	ND	1.0	EPA 8270	8-29-09	8-29-09	
Hexachlorobutadiene	ND	1.0	EPA 8270	8-29-09	8-29-09	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	8-29-09	8-29-09	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
2,3-Dichloroaniline	ND	1.0	EPA 8270	8-29-09	8-29-09	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
2-Chloronaphthalene	ND	1.0	EPA 8270	8-29-09	8-29-09	
2-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-29-09	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-29-09	
Dimethylphthalate	ND	1.0	EPA 8270	8-29-09	8-29-09	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-29-09	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-29-09	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	8-29-09	8-29-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
3-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-29-09	

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829W1					
2,4-Dinitrophenol	ND	10	EPA 8270	8-29-09	8-29-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4-Nitrophenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	8-29-09	8-29-09	
Dibenzofuran	ND	1.0	EPA 8270	8-29-09	8-29-09	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	8-29-09	8-29-09	
Diethylphthalate	ND	1.0	EPA 8270	8-29-09	8-29-09	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-29-09	
4-Nitroaniline	ND	1.0	EPA 8270	8-29-09	8-29-09	
Fluorene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	8-29-09	8-29-09	
N-Nitrosodiphenylamine	ND	10	EPA 8270	8-29-09	8-29-09	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	8-29-09	8-29-09	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	8-29-09	8-29-09	
Hexachlorobenzene	ND	1.0	EPA 8270	8-29-09	8-29-09	
Pentachlorophenol	ND	5.0	EPA 8270	8-29-09	8-29-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Anthracene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Carbazole	ND	1.0	EPA 8270	8-29-09	8-29-09	
Di-n-butylphthalate	ND	1.0	EPA 8270	8-29-09	8-29-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Benzidine	ND	10	EPA 8270	8-29-09	8-29-09	
Pyrene	ND	0.10	EPA 8270/SIM	8-29-09	9-3-09	
Butylbenzylphthalate	ND	1.0	EPA 8270	8-29-09	8-29-09	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	8-29-09	8-29-09	
3,3'-Dichlorobenzidine	ND	10	EPA 8270	8-29-09	8-29-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Chrysene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	8-29-09	8-29-09	
Di-n-octylphthalate	ND	1.0	EPA 8270	8-29-09	8-29-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	8-29-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>50</i>	<i>12 - 91</i>				
<i>Phenol-d6</i>	<i>38</i>	<i>10 - 102</i>				
<i>Nitrobenzene-d5</i>	<i>75</i>	<i>27 - 115</i>				
<i>2-Fluorobiphenyl</i>	<i>75</i>	<i>37 - 111</i>				
<i>2,4,6-Tribromophenol</i>	<i>85</i>	<i>48 - 121</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>47 - 116</i>				

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0829W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	17.7	17.6	40.0	40.0	44	44	17 - 69	1	34	
2-Chlorophenol	30.3	31.1	40.0	40.0	76	78	36 - 104	3	36	
1,4-Dichlorobenzene	14.6	14.3	20.0	20.0	73	72	29 - 90	2	34	
N-Nitroso-di-n-propylamine	16.0	15.8	20.0	20.0	80	79	34 - 101	1	38	
1,2,4-Trichlorobenzene	13.8	14.3	20.0	20.0	69	72	30 - 97	4	42	
4-Chloro-3-methylphenol	32.6	34.4	40.0	40.0	82	86	56 - 106	5	26	
Acenaphthene	15.2	15.9	20.0	20.0	76	80	46 - 94	5	34	
4-Nitrophenol	20.1	21.7	40.0	40.0	50	54	17 - 100	8	38	
2,4-Dinitrotoluene	17.8	18.4	20.0	20.0	89	92	50 - 121	3	18	
Pentachlorophenol	32.4	32.7	40.0	40.0	81	82	37 - 132	1	32	
Pyrene	16.8	17.0	20.0	20.0	84	85	65 - 108	1	18	
<i>Surrogate:</i>										
					54	52	12 - 91			
					41	42	10 - 102			
					78	78	27 - 115			
					73	77	37 - 111			
					79	80	48 - 121			
					81	80	47 - 116			

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Lab Traveler: 0908-209
 Project: 10654.001

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW-02					
Laboratory ID:	08-209-01					
Aroclor 1016	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1221	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1232	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1242	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1248	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1254	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1260	ND	0.10	EPA 8082	9-1-09	9-4-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	93	39-128				
Client ID:	GMX-MW-09					
Laboratory ID:	08-209-02					
Aroclor 1016	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1221	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1232	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1242	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1248	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1254	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1260	ND	0.10	EPA 8082	9-1-09	9-4-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	112	39-128				
Client ID:	GMX-MW-01					
Laboratory ID:	08-209-03					
Aroclor 1016	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1221	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1232	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1242	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1248	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1254	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1260	ND	0.10	EPA 8082	9-1-09	9-4-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	280	39-128				Q

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Lab Traveler: 0908-209
 Project: 10654.001

PCBs by EPA 8082

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ANCP-MW-02					
Laboratory ID:	08-209-04					
Aroclor 1016	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1221	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1232	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1242	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1248	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1254	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1260	ND	0.11	EPA 8082	9-1-09	9-4-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	134	39-128				Q
Client ID:	ANCP-MW-01					
Laboratory ID:	08-209-05					
Aroclor 1016	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1221	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1232	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1242	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1248	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1254	ND	0.10	EPA 8082	9-1-09	9-4-09	X
Aroclor 1260	ND	0.10	EPA 8082	9-1-09	9-4-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	161	39-128				Q
Client ID:	GMX-MW-04					
Laboratory ID:	08-209-06					
Aroclor 1016	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1221	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1232	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1242	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1248	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1254	ND	0.11	EPA 8082	9-1-09	9-4-09	X
Aroclor 1260	ND	0.11	EPA 8082	9-1-09	9-4-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	141	39-128				Q

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Lab Traveler: 0908-209
 Project: 10654.001

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901W1					
Aroclor 1016	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.050	EPA 8082	9-1-09	9-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	188	39-128				Q

Laboratory ID:	MB0901W1					
Aroclor 1016	ND	0.050	EPA 8082	9-1-09	9-4-09	X
Aroclor 1221	ND	0.050	EPA 8082	9-1-09	9-4-09	X
Aroclor 1232	ND	0.050	EPA 8082	9-1-09	9-4-09	X
Aroclor 1242	ND	0.050	EPA 8082	9-1-09	9-4-09	X
Aroclor 1248	ND	0.050	EPA 8082	9-1-09	9-4-09	X
Aroclor 1254	ND	0.050	EPA 8082	9-1-09	9-4-09	X
Aroclor 1260	ND	0.050	EPA 8082	9-1-09	9-4-09	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	193	39-128				Q

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0901W1									
	SB	SBD	SB	SBD		SB	SBD			
Aroclor 1260	0.405	0.453	0.500	0.500	N/A	81	91	58-113	11	11
<i>Surrogate:</i>										
DCB						81	89	39-128		

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-209-01
 Client ID: GMX-MW-02

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	2.9	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	5.6
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	130	25

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-209-02
 Client ID: GMX-MW-09

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	19	2.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	8.1	8.0
Selenium	6020	ND	40
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-209-03
 Client ID: GMX-MW-01

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	2.2	1.0
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	9.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09

Date Analyzed: 9-2,4&8-09

Matrix: Water

Units: ug/L (ppb)

Lab ID: 08-209-04

Client ID: ANCP-MW-02

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	3.4
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	52
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-209-05
 Client ID: ANCP-MW-01

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	2.4
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	5.4	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	17	8.0
Selenium	6020	ND	42
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-209-06
 Client ID: GMX-MW-04

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	3.2
Beryllium	6020	ND	4.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125
Nickel	6020	ND	8.0
Selenium	6020	ND	30
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: MB0828W1

Analyte	Method	Result	PQL
Antimony	6020	ND	5.0
Arsenic	6020	ND	1.0
Beryllium	6020	ND	2.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Copper	6020	ND	3.0
Nickel	6020	ND	8.0
Selenium	6020	ND	5.0
Silver	6020	ND	8.0
Thallium	6020	ND	5.0
Zinc	6020	ND	25

Date of Report: September 9, 2009
Samples Submitted: August 28, 2009
Laboratory Reference: 0908-209
Project: 10654.001

**TOTAL METALS
EPA 6020/7470A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-2-09
Date Analyzed: 9-2&4-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0902W2&MB0902W3

Analyte	Method	Result	PQL
Lead	6020	ND	1.0
Mercury	7470A	ND	0.125

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-043-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	133	132	1	1.0	
Beryllium	ND	ND	NA	2.0	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	ND	NA	3.0	
Nickel	ND	ND	NA	8.0	
Selenium	ND	ND	NA	2.0	
Silver	ND	ND	NA	8.0	
Thallium	ND	ND	NA	5.0	
Zinc	31.9	35.9	12	25	

Date of Report: September 9, 2009
Samples Submitted: August 28, 2009
Laboratory Reference: 0908-209
Project: 10654.001

**TOTAL METALS
EPA 6020/7470A
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-2-09
Date Analyzed: 9-2&4-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-209-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.125	

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-28&9-2-09
 Date Analyzed: 9-2,4&8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 08-043-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	105	105	105	105	0	
Arsenic	100	235	102	223	90	5	
Beryllium	100	105	105	103	103	2	
Cadmium	100	106	106	103	103	3	
Chromium	100	109	109	110	110	1	
Copper	100	97.7	98	94.8	95	3	
Nickel	100	113	113	110	110	3	
Selenium	100	102	102	95.1	95	7	
Silver	100	109	109	105	105	3	
Thallium	100	109	109	104	104	4	
Zinc	100	129	97	119	88	8	

Date of Report: September 9, 2009
 Samples Submitted: August 28, 2009
 Laboratory Reference: 0908-209
 Project: 10654.001

**TOTAL METALS
 EPA 6020/7470A
 MS/MSD QUALITY CONTROL**

Date Extracted: 9-2-09
 Date Analyzed: 9-2&4-09

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: 08-209-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	110	84.4	77	98.3	89	15	
Mercury	12.5	12.1	97	12.1	97	0	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: AMEC Geomatrix

Project Number: 10654.001

Project Name: Custom Plywood

Project Manager: Kathleen Goodman

Sampled by: Emerald Erickson

Chain of Custody

Laboratory Number: 08-209

Turnaround Request (in working days)

- (Check One)
- Same Day 1 Day
 - 2 Day 3 Day
 - Standard (7 working days)
 - (TPH analysis 5 working days)
 - (other)

Requested Analysis

NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX + Motor oil	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Priority Pollutants (13)	% Moisture
		X			X		X						X	
		X			X		X						X	
		X			X		X						X	
		X			X		X						X	
		X			X		X						X	
		X			X		X						X	

Comments/Special Instructions

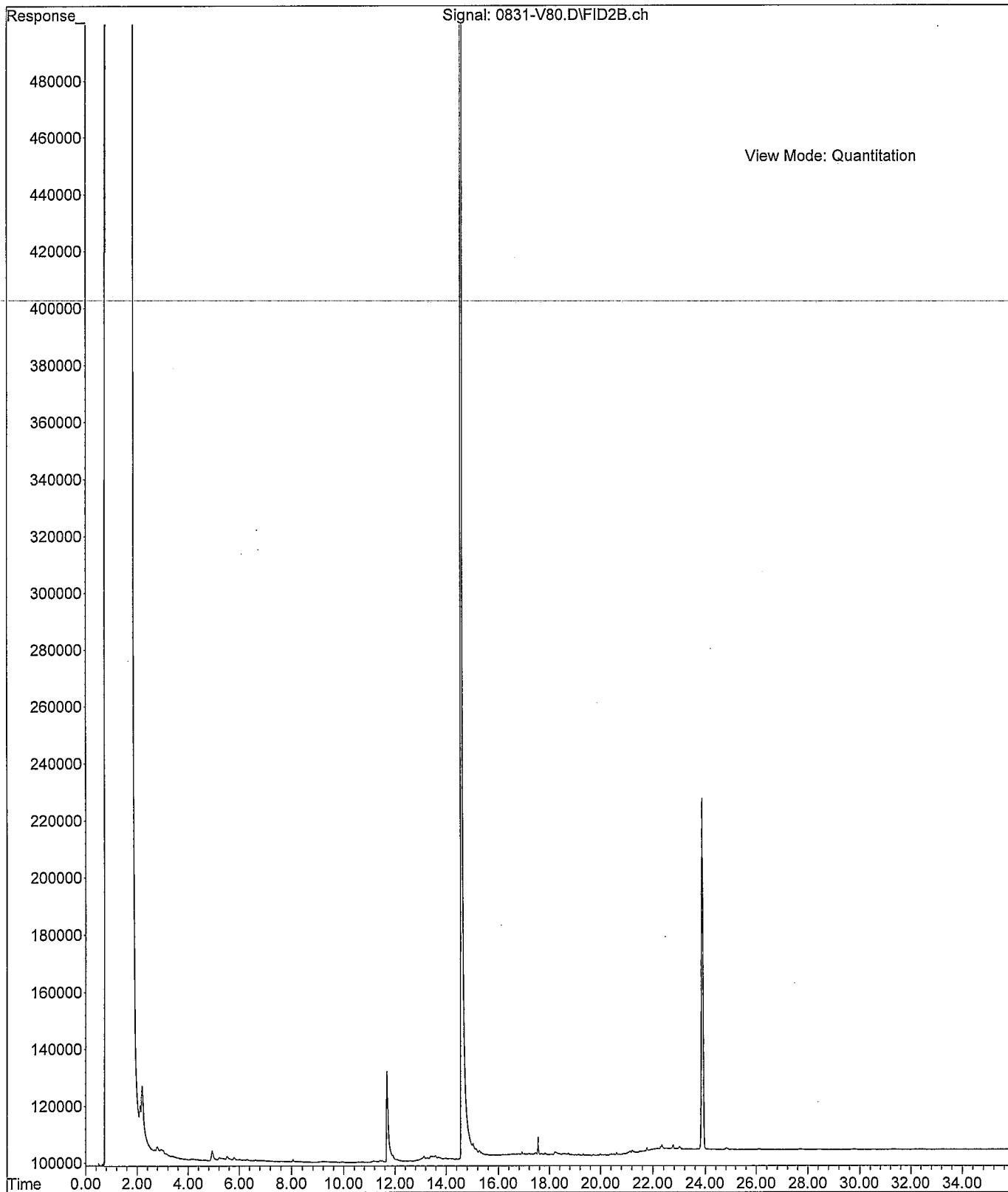
Signature	Date	Time	Company
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Received by			
Relinquished by			
Received by			
Relinquished by			
Received by			
Reviewed by/Date			

Reviewed by/Date

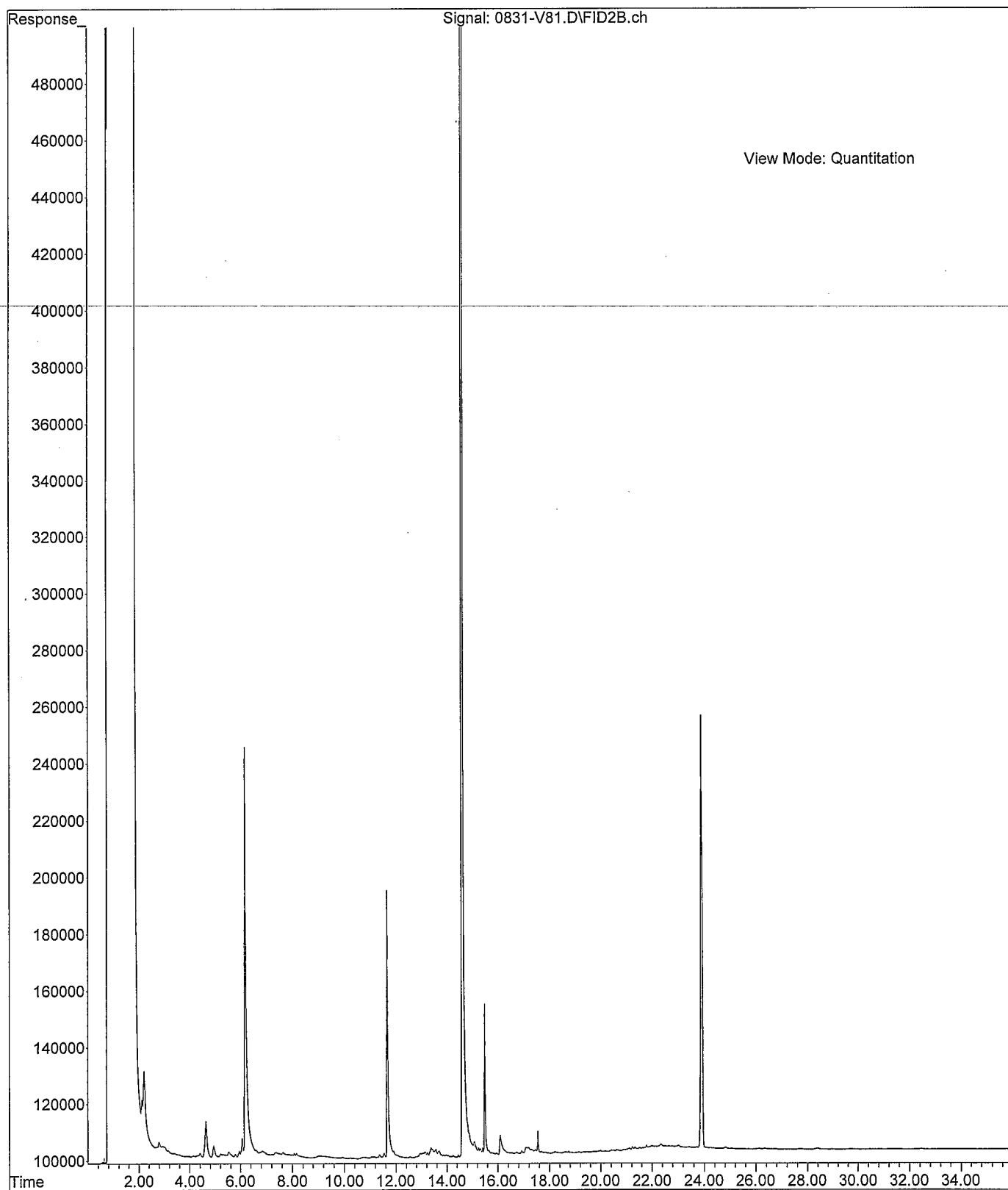
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Chromatograms with final report

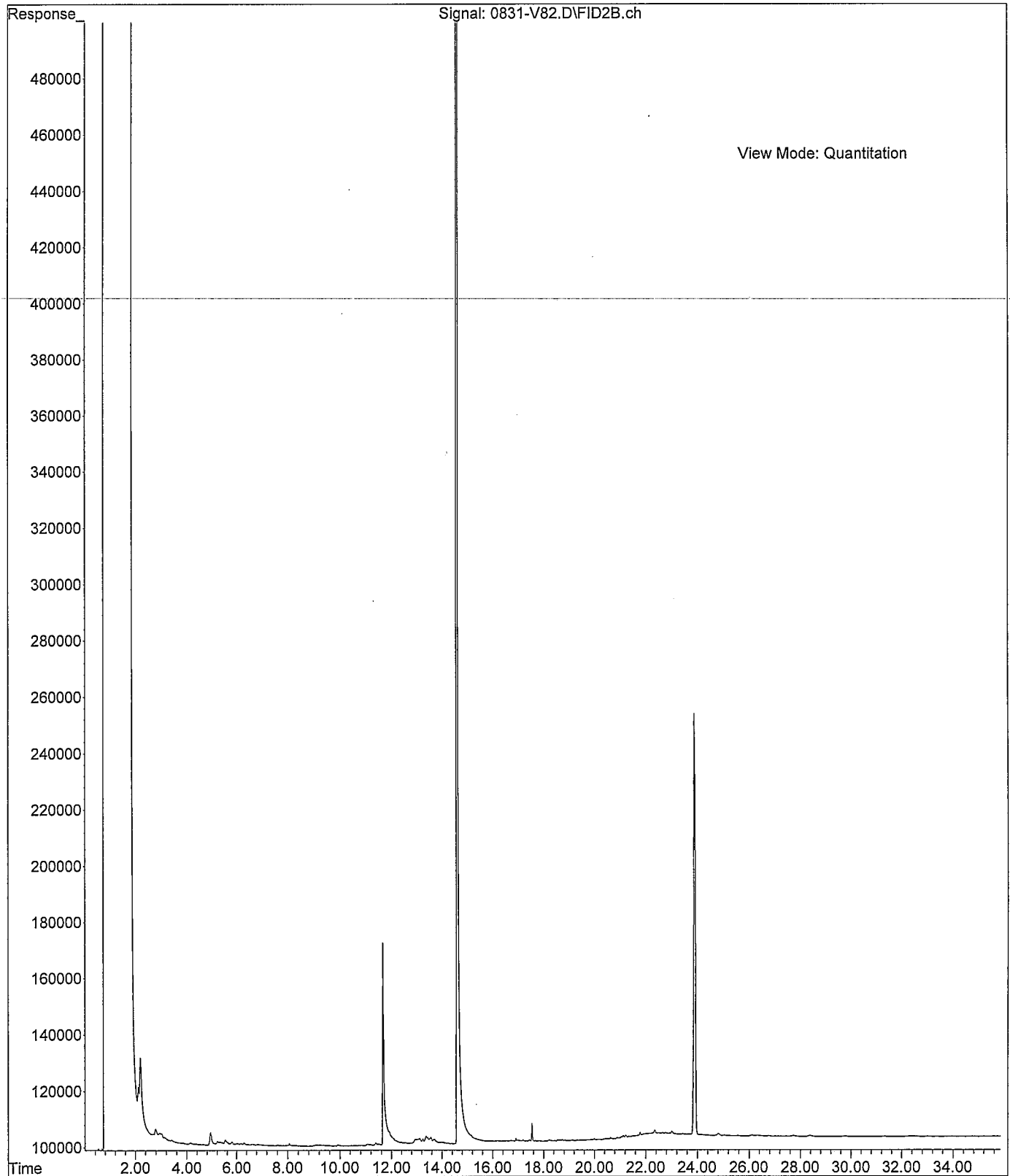
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Instrument : Vigo
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Vial Number: 80



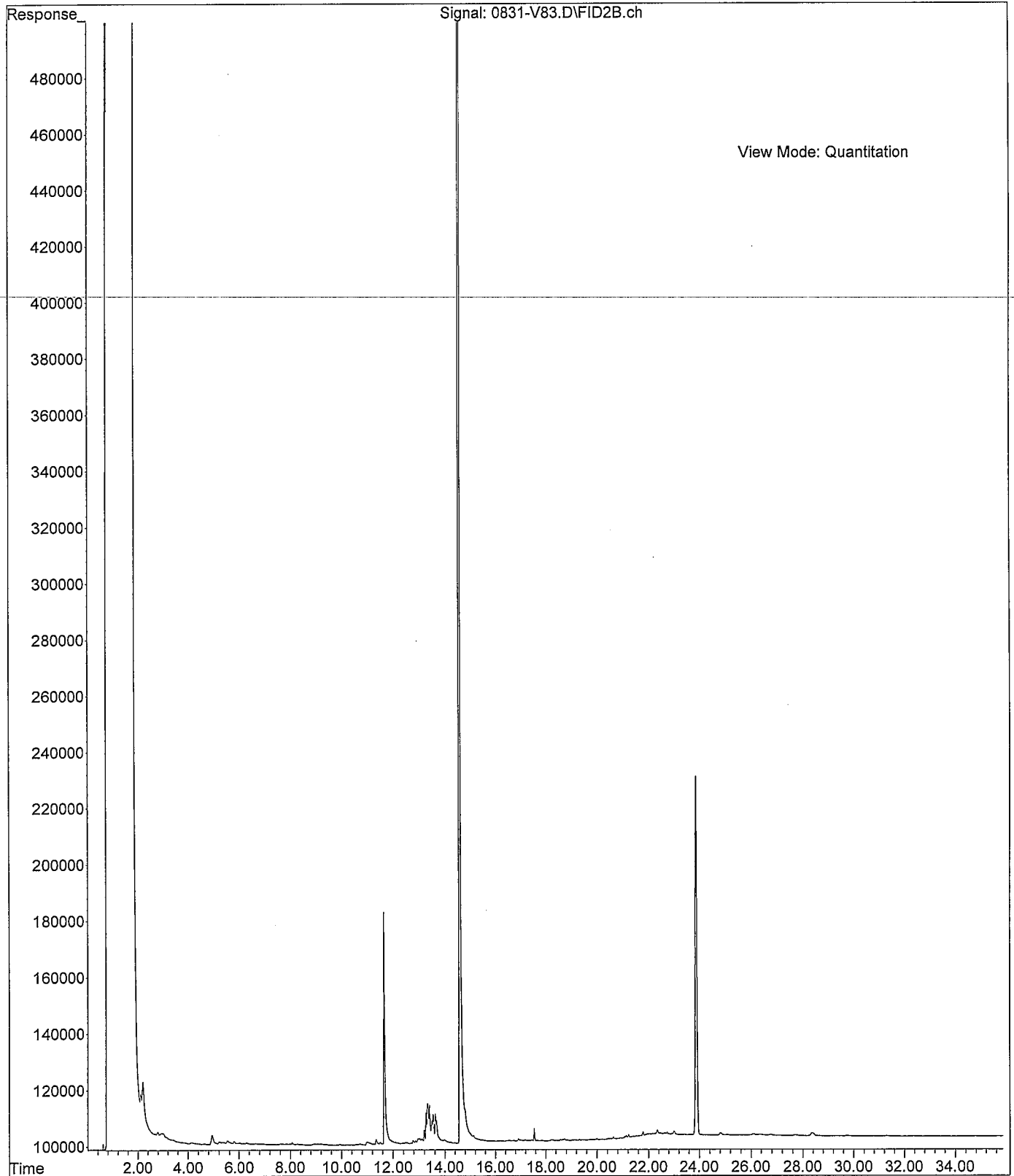
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Vial Number: 81



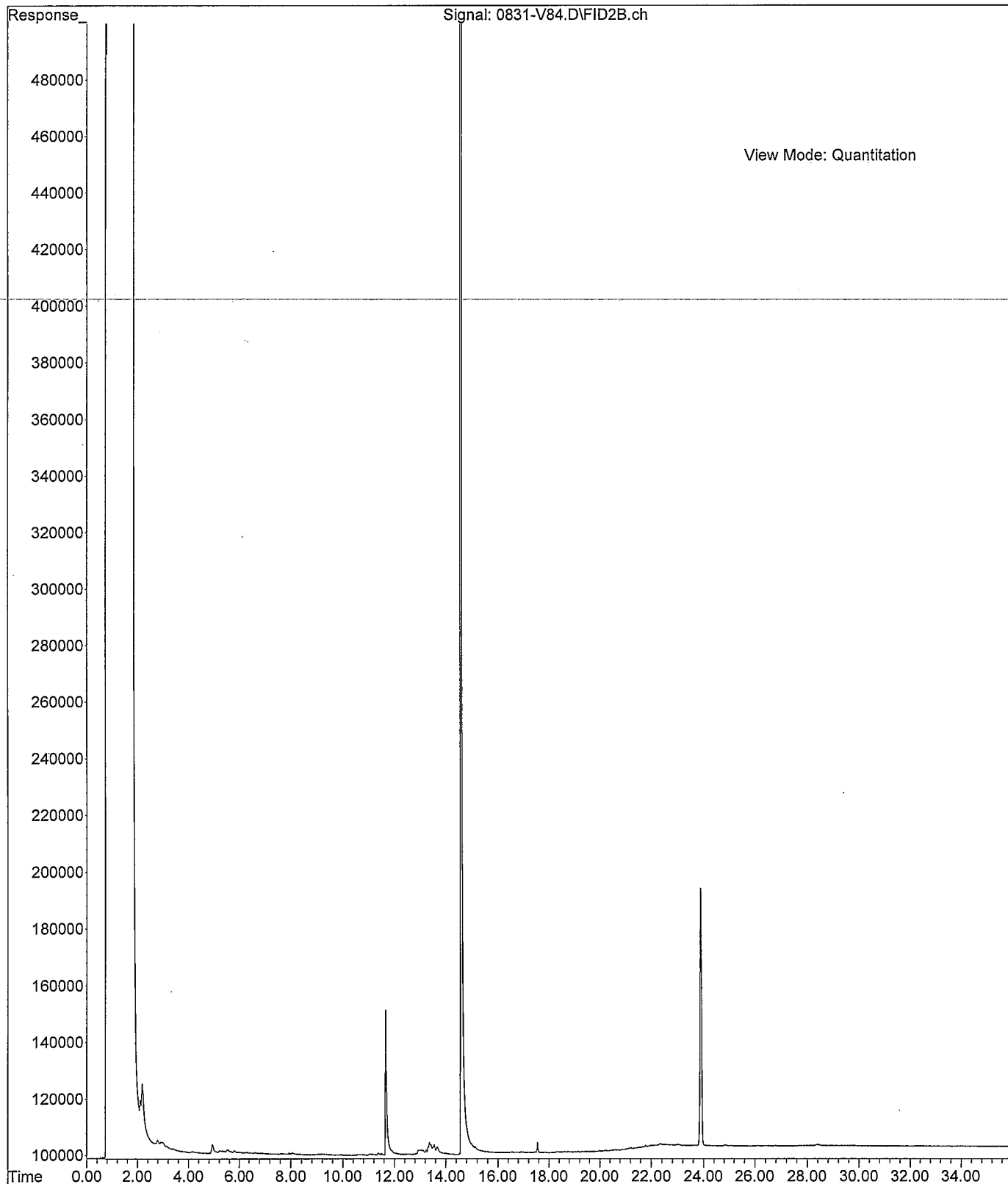
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Instrument : Vigo
Sample Name: 08-209-03
Misc Info :
Vial Number: 82



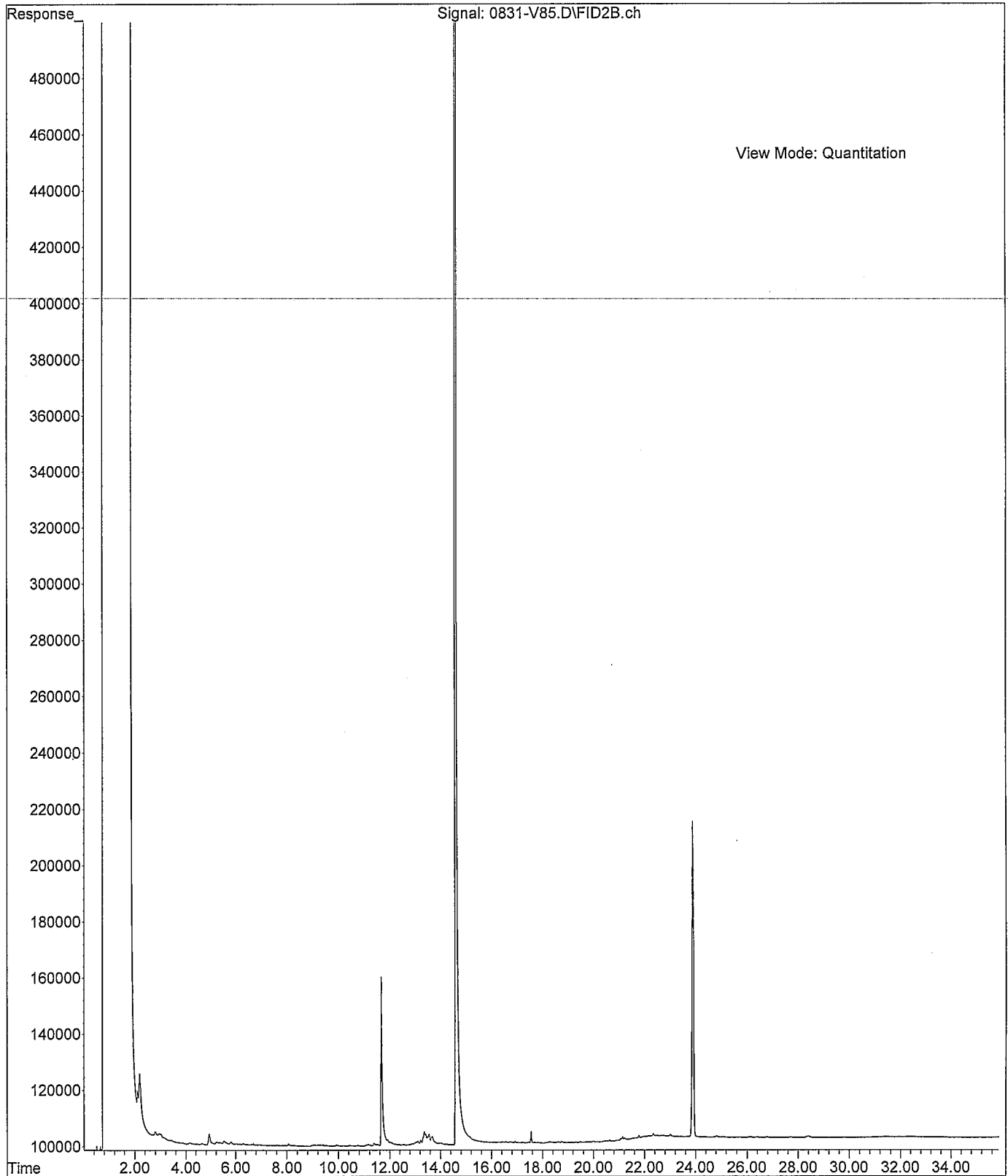
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Instrument : Vigo
Sample Name: 08-209-04
Misc Info :
Vial Number: 83



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Operator : ZT
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Instrument : Vigo
Sample Name: 08-209-05
Misc Info :
Vial Number: 84



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Operator : ZT
Acquired : 1 Sep 09 8:54 a using AcqMethod V090730F.M
Instrument : Vigo
Sample Name: 08-209-06
Misc Info :
Vial Number: 85





EcoChem, INC.
Environmental Data Quality

DATA VALIDATION REPORT

Former Custom Plywood Site

Prepared for:

AMEC Geomatrix, Inc.
600 University Street, Suite 1020
Seattle, Washington 98101

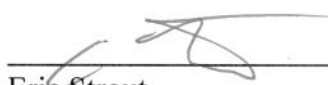
Prepared by:

EcoChem, Inc.
710 Second Avenue, Suite 660
Seattle, Washington 98104

EcoChem Project: C22402-1

August 27, 2009

Approved by:



Eric Strout
Technical Director
EcoChem, Inc.

PROJECT NARRATIVE

Basis for Data Validation

This report summarizes results from Summary data validation (EPA Stage 2B) performed on sediment and associated laboratory quality control data. These samples were collected for the Former Custom Plywood site. A sample index is provided as **TABLE 1**.

Samples were analyzed by Axys Analytical Services, Sidney, BC. The analytical method and validation chemists are listed below.

Test	Method	Primary Chemist	Secondary Chemist
Dioxin/Furan Compounds	Axys MLA-017 (1613B)	Lucy Panteleeff	Eric Strout

The data were reviewed using guidance and quality control criteria documented in the analytical methods; *USEPA Region 10 SOP for Validation of Dioxins & Furans* (USEPA, 1996); and *USEPA National Function Guidelines for Chlorinated Dibenzo-p Dioxins (CDD) and Chlorinated Dibenzofurans (CDF) Data Review* (USEPA, 2005).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **APPENDIX A**. A summary table of all qualified data is presented in **APPENDIX B**. Data Validation Worksheets will be kept on file at EcoChem, Inc.

Table 1 - SAMPLE INDEX
Former Custom Plywood Site

Field ID	Axys ID	Axys SDG	Analysis
Composite Group 1	L12912-1 i	WG29271	Dioxin/Furan
Composite Group 2	L12912-2	WG29271	Dioxin/Furan
Composite Group 3	L12912-3 i	WG29271	Dioxin/Furan
Composite Group 4	L12912-4 i	WG29271	Dioxin/Furan
Composite Group 5	L12912-5 i	WG29271	Dioxin/Furan
10654007	L12912-6 i	WG29271	Dioxin/Furan
10654014	L12912-7	WG29271	Dioxin/Furan
10654018	L12912-8	WG29271	Dioxin/Furan
10654034	L12912-9 (A)	WG29271	Dioxin/Furan

DATA VALIDATION REPORT
Custom Plywood Site
Dioxin/Furan Compounds
Method: Axys MLA-017 (Modified EPA 1613B)
Axys Analytical Services, Ltd.

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Axys Analytical Services Ltd., Sidney, British Columbia, Canada. Refer to the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples	Validation Level
WG29271	9 Sediments	Summary (Stage 2B)

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The quality control (QC) requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times	1	Standard Reference Material (SRM)
	System Performance and Resolution Checks		Ongoing Precision and Recovery (OPR) Analysis
	Initial Calibration (ICAL)	1	Laboratory Duplicate
	Calibration Verification (CVER)	1	Field Duplicates
	Isomer Specificity		Target Analyte List
	Laboratory Method Blank		Compound Quantitation and Reporting Limits
	Labeled Compound Recovery	2	Compound Identification

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should be within the advisory temperature range of 2° to 6°C upon receipt at the laboratory. The laboratory received

the sample cooler at a temperature of 8°C. As dioxin/furan compounds are extremely persistent compound, the temperature outlier did not impact data quality and no qualifiers were required.

Standard Reference Material

A standard reference material (SRM) was extracted and analyzed with this analytical batch. The SRM selected for this study was NIST 1944. All concentrations were within the acceptance criteria of $\pm 20\%$ of the 95% confidence interval.

Laboratory Duplicate

Sample 10654034 was extracted and analyzed in duplicate. Relative percent difference (RPD) values were calculated for all detected analytes. All target analyte RPD values were within the 25% control limit.

Field Duplicates

No samples identified as field duplicates were analyzed.

Compound Identification

The laboratory assigned K-flags to numerous values to indicate the ion abundance ratio criterion was not met. Since the ion abundance ratio is the primary identification criterion for HRMS analysis, outliers indicate that the reported value may be a false positive or "estimated maximum possible concentration", EMPC. To indicate that the reported result is essentially an elevated detection limit, the EMPC values were qualified as not detected (U-22) at the reported values.

All results for 2,3,7,8-TCDF were confirmed on a DB-225 column as required by the method. The results from both columns were reported in the hardcopy data and EDD. The 2,3,7,8-TCDF results on the DB-5 column were qualified as do-not-report (DNR-11). The results from the DB-225 column should be used. As a usable result still exists for each analyte in all samples, completeness is not affected.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the labeled compound and OPR %R values, and the SRM results. Precision was acceptable, as indicated by the laboratory duplicate analysis.

Data were qualified as not detected due to ion ratio criteria outliers. Data were qualified as do-not-report (DNR) to indicate which result (of duplicate results) should not be used.

Data qualified as DNR should not be used for any purpose. All other data, as qualified, are acceptable for use.



EcoChem, INC.
Environmental Data Quality

APPENDIX A
DATA QUALIFIER DEFINITIONS
REASON CODES
AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES **Based on National Functional Guidelines**

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.
-----	---

DATA QUALIFIER REASON CODES

1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with "R" and "DNR" only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
 (Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids < 4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Extraction - Water: 30 days from collection <i>Note:</i> Under CWA, SDWA, and RCRA the HT for H2O is 7 days* Extraction - Soil: 30 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext > 30 days J(+)/UJ(-) if analysis > 40 Days EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 304.9824 Exact mass of m/z 380.9760 w/in 5 ppm of theoretical value (380.97410 to 380.97790) . Analyzed prior to ICAL and at the start and end of each 12 hr. shift	R(+/-) if not met	14
Window Defining Mix and Column Performance Mix	Window defining mixture/Isomer specificity std run before ICAL and CCAL Valley < 25% (valley = (x/y)*100%) x = ht. of TCDD y = baseline to bottom of valley For all isomers eluting near 2378-TCDD/TCDF isomers (TCDD only for 8290)	J(+) if valley > 25%	5A (ICAL) 5B (CCAL)
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD <30% for labeled compounds (%RSD <35% for labeled compounds under 1613b)	J(+) natives if %RSD > 20%	5A
	Abs. RT of ¹³ C ₁₂ -1234-TCDD >25 min on DB5 >15 min on DB-225	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	

EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
 (Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Continuing Calibration	Analyzed at the start and end of each 12 hour shift. %D +/-20% for native compounds %D +/-30% for labeled compounds (Must meet limits in Table 6, Method 1613B) (If %Ds in the closing CCAL are w/in 25%/35% the avg RF from the two CCAL may be used to calculate samples per Method 8290, Section 8.3.2.4)	Do not qualify labeled compounds. Narrate in report for labeled compound %D outliers. For native compound %D outliers: 8290: J(+)/UJ(-) if %D = 20% - 75% J(+)/R(-) if %D > 75% 1613: J(+)/UJ(-) if %D is outside Table 6 limits J(+)/R(-) if %D is +/- 75% of Table 6 limit	5B
	Abs. RT of ¹³ C ₁₂ -1234-TCDD and ¹³ C ₁₂ -123789-HxCDD +/- 15 sec of ICAL.	EcoChem PJ, see ICAL section of TM-05	
	RRT of all other compounds must meet Table 2 of 1613B.	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7
Field Blanks (Not Required)	No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	Concentrations must meet limits in Table 6, Method 1613B or lab limits.	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (recovery)	May not analyze MS/MSD %R should meet lab limits.	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	May not analyze MS/MSD RPD < 20%	J(+) in parent sample if RPD > CL	9

EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
 (Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Lab Duplicate	RPD <25% if present.	J(+)/UJ(-) if outside limits	9
Labeled Compounds / Internal Standards	<p><i>Method 8290:</i> %R = 40% - 135% in all samples</p> <hr style="border-top: 1px dashed black;"/> <p><i>Method 1613B:</i> %R must meet limits specified in Table 7, Method 1613</p>	<p>J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%</p>	13
Quantitation/ Identification	<p>Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5</p> <p>IA ratios meet limits in Table 9 of 1613B or Table 8 of 8290 RRTs w/in limits in Table 2 of 1613B</p>	<p>If RT criteria not met, use PJ (see TM-05) If S/N criteria not met, J(+). If unlabelled ion abundance not met, change to EMPC If labelled ion abundance not met, J(+).</p>	21
EMPC (estimated maximum possible concentration)	If quantitation identification criteria are not met, laboratory should report an EMPC value.	If laboratory correctly reported an EMPC value, qualify with U to indicate that the value is a detection limit.	14
Interferences	PCDF interferences from PCDEPE	If both detected, change PCDF result to EMPC	14
Second Column Confirmation	All 2378-TCDF hits must be confirmed on a DB-225 (or equiv) column. All QC specs in this table must be met for the confirmation analysis.	Report lower of the two values. If not performed use PJ (see TM-05).	3
Field Duplicates	<p>Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL)</p> <p>Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)</p>	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used	11



EcoChem, INC.
Environmental Data Quality

APPENDIX B

QUALIFIED DATA SUMMARY TABLE

SDG	Field ID	Lab ID	Analyte	Result	Lab Flag	DV Qualifier	DV Reason
WG29271	Composite Group 1	L12912-1 i	2,3,7,8-TCDF	0.943		DNR	11
WG29271	Composite Group 1	L12912-1	2,3,7,8-TCDF (225)	0.531	K	U	22
WG29271	Composite Group 2	L12912-2	2,3,7,8-TCDF	2.97		DNR	11
WG29271	Composite Group 2	L12912-2	2,3,7,8-TCDF (225)	1.23	K	U	22
WG29271	Composite Group 3	L12912-3 i	2,3,7,8-TCDF	2.34		DNR	11
WG29271	Composite Group 4	L12912-4 i	1,2,3,4,7,8-HXCDD	1.14	K	U	22
WG29271	Composite Group 4	L12912-4 i	2,3,4,6,7,8-HXCDF	0.776	K	U	22
WG29271	Composite Group 4	L12912-4 i	2,3,7,8-TCDD	0.253	K	U	22
WG29271	Composite Group 4	L12912-4 i	2,3,4,7,8-PECDF	0.596	K	U	22
WG29271	Composite Group 4	L12912-4 i	2,3,7,8-TCDF	2.34		DNR	11
WG29271	Composite Group 4	L12912-4	2,3,7,8-TCDF (225)	1.47	K	U	22
WG29271	Composite Group 5	L12912-5 i	2,3,7,8-TCDF	2.17		DNR	11
WG29271	Composite Group 5	L12912-5 i	1,2,3,7,8-PECDF	0.412	K	U	22
WG29271	10654007	L12912-6 i	1,2,3,7,8,9-HXCDF	0.222	K	U	22
WG29271	10654007	L12912-6 i	2,3,7,8-TCDD	0.875	K	U	22
WG29271	10654007	L12912-6 i	2,3,7,8-TCDF	8.46		DNR	11
WG29271	10654007	L12912-6 i	2,3,4,7,8-PECDF	1.87	K	U	22
WG29271	10654014	L12912-7	2,3,7,8-TCDD	0.673	K	U	22
WG29271	10654014	L12912-7	2,3,7,8-TCDF	3.89		DNR	11
WG29271	10654014	L12912-7	1,2,3,7,8,9-HXCDF	0.378	K	U	22
WG29271	10654018	L12912-8	2,3,7,8-TCDF	4.30		DNR	11
WG29271	10654034	L12912-9 (A)	2,3,7,8-TCDF	1.90		DNR	11
WG29271	10654034	L12912-9 (A)	2,3,7,8-TCDD	0.483	K	U	22
WG29271	10654034	L12912-9 (A)	1,2,3,7,8-PECDF	0.856	K	U	22
WG29271	10654034	L12912-9 (A)	1,2,3,7,8,9-HXCDF	0.320	K	U	22
WG29271	10654034	L12912-9 (A)	2,3,7,8-TCDF (225)	0.978	K	U	22

DIOXIN/FURAN ANALYSIS

SOLID SAMPLES

AXYS METHOD: MLA-017

Project Number: 10654.001

Contract: 4390

Data Package Identification: DPWG29567

Analysis WG29271

28 July 2009

DIOXIN/FURAN ANALYSIS

SOLID SAMPLES

AXYS METHOD: MLA-017

Project Number: 10654.001

Contract: 4390

Data Package Identification: DPWG29567

Analysis WG29271

Prepared for:

Geomatrix Consultants

Prepared by:

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CANADA

Contact: Teresa Rawsthorne

Project Manager

28 July 2009



**AMEC - Geomatrix
Solid Samples**

**Polychlorinated Dibenzodioxins and Furans
AXYS Method: MLA-017**

PROJECT: Custom Plywood
10654.001

4390: L12912-1 to -9

27 July 2009

NARRATIVE

This narrative describes the analysis of nine solid samples for the determination of polychlorinated dibenzodioxins and furans by high-resolution gas chromatography / high-resolution mass spectrometry (HRGC / HRMS).

SAMPLE RECEIPT AND STORAGE

The samples were received on the 30th of June 2009. Details of sample conditions on receipt are provided on the Sample Receiving Record forms. The temperature of the samples upon receipt were noted to be above 4°C and the analysis was allowed to proceed by communicating with the client. The samples were stored at -20°C prior to extraction and analysis.

SAMPLE PREPARATION AND ANALYSIS

The samples were homogenized as described on the Solid Preparation Record forms included in this data package.

The samples were analyzed in batch, WG29271, the composition of which is shown on the Cover Page and Correlation Table. For QC samples, the batch contained a procedural blank, a lab-generated reference sample known as the Ongoing Precision and Recovery (OPR) and a Standard Reference Material, NIST 1944. The procedural blank and OPR were prepared using cleaned sand as the matrix.

Analysis procedures were in general accordance with **USEPA Method 1613, Revision B** as documented in AXYS Method MLA-017. A summary of MLA-017, MSU-018, is provided following this narrative.

An accurately weighed subsample of approximately 10 g dry weight of each sediment sample was spiked with ¹³C-labeled quantification standards, and then extracted by Soxhlet using 80:20 toluene/acetone. The raw extract was spiked with ¹³C-labeled cleanup standards, and then cleaned up on an automated chromatography apparatus (Fluid Management Systems, Inc *Power-Prep™ System*) equipped with pre-packed Teflon columns. Following cleanup, the final extract was reduced in volume and spiked with labelled recovery (internal) standards prior to instrumental analysis.

CALCULATIONS

Target analyte concentrations were determined by isotope dilution or internal standard quantification procedures using either Micromass OPUS Quan or Waters MassLynx 4.1 software.

Sample specific detection limits (SDL) were determined from the analysis data following the same procedures used to convert target peak responses to concentrations. In cases when the software selected an unrepresentative area for the SDL calculation, the SDL was hand-corrected on the quantification report pages.

Because of instrument variability and lab background levels, it is the policy of AXYS to report dioxin



detection limits no lower than 0.5 pg absolute (i.e. 0.05 pg/g for a 10 g sample). In cases where the SDL was less than 0.5 pg absolute the detection limit is elevated to 0.5 pg abs on the report.

Homologue totals were obtained by summing the concentration of all detected congeners at each level of chlorination. Toxic Equivalents (TEQs) were calculated using WHO 1998 and WHO 2005 TEFs. Congener peaks that did not meet the method ion abundance ratio criteria were not included in the homologue totals and TEQ calculations.

REPORTING CONVENTIONS

For internal tracking, AXYS assigned AMEC - Geomatrix contract number 4390. AXYS logged the samples under unique laboratory identifiers of the form L12912-X, where X is a numeral. All data reports reference both the AXYS ID and the client sample identifier. To assist in locating data, a table correlating AXYS IDs with the client sample numbers is included in this data package.

Suffixes added to the AXYS IDs indicate additional work performed after the first instrumental analysis of the sample extract. The following extra work suffixes appear in this data package:

i = instrumental re-analysis performed on the sample extract

The following data qualifier flags are used in this data package:

K = a peak was detected that did not meet all the criteria for identification as the target analyte; the reported value is the estimated maximum possible concentration of analyte present.

U = identifies a compound that was not detected

Sample analyte concentrations are reported to three significant figures, in units of picograms per gram (pg/g) on a dry weight basis.

ANALYTICAL DISCUSSION

Samples Composite Group 1, Composite Group 2, Composite Group 3, Composite Group 4, Composite Group 5, 10654007 and the Lab Blank (AXYS ID: L12912-1 to -6 and WG29271-101, respectively) were instrumentally re-analyzed due to instrumental interferences. Re-analysis data for all samples are reported (indicated by the test suffix 'i' or 'i2' added to the AXYS ID).

QA/QC NOTES

The QC samples (a blank, an OPR, and an SRM) were prepared alongside the client samples, and carried through the same analytical procedures. The sample data were evaluated in relation to the QC samples.

- Data are not blank-corrected. Sample data should be evaluated in comparison to the corresponding blank.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery-corrected for possible losses during extraction and clean up.
- The method-specified quality acceptance criteria were met.

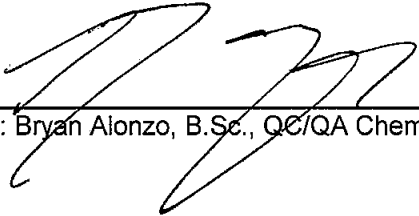
DATA PACKAGE

This data package is assigned a unique identifier, DPWG29567, shown on the front page. The following

documents are included in the data package:

- Method summary and list of modifications to USEPA Method 1613B
- Sample Cover Page and Correlation Table
- Sample Receiving Documentation
- Laboratory extraction logs for each sample (organized by AXYS ID)
- Sample data reports and raw data (organized by AXYS ID)
- Laboratory QC data reports and raw data
- Instrumental QC data reports and raw data (organized by analysis start date for a given analytical sequence)

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify that to the best of my knowledge and belief the data as reported are true and accurate. The following signature authorizes on behalf of AXYS Analytical Services Ltd the release of the data contained in this data package.



Signed: Bryan Alonzo, B.Sc., QC/QA Chemist

27-Jul-09
Date



AXYS ANALYTICAL SERVICES LTD.

**ANALYSIS OF POLYCHLORINATED DIOXINS AND FURANS
BY EPA METHOD 1613B**

Samples are spiked with a suite of isotopically labelled surrogate standards prior to analysis, solvent extracted, and cleaned up through a series of chromatographic columns that may include gel permeation, silica, Florisil, carbon/Celite, and alumina columns. The extract is concentrated and spiked with an isotopically labelled recovery (internal) standard. Analysis is performed using a high-resolution mass spectrometer coupled to a high-resolution gas chromatograph equipped with a DB-5 capillary chromatography column (60 m, 0.25 mm i.d., 0.1 µm film thickness). A second column, DB-225 (30 m, 0.25 mm i.d., 0.15 µm film thickness), is used for confirmation of 2,3,7,8-TCDF identification. All procedures are carried out according to protocols as described in EPA Method 1613B, with the significant modifications summarized below. The data are evaluated against QC criteria presented in Tables 1 and 2.

Method Modifications:**Section 2.1.2**

Non-aqueous liquid from multiphase sample is combined with the solid phase and extracted by Dean Stark soxhlet.

Section 7.2.1

Anhydrous sodium sulphate (Na_2SO_4) is purchased in powder form (not granular) and is baked overnight prior to use. There is no solvent rinse with dichloromethane.

Section 7.10

The concentration of the labelled compound spiking solution is 100 ng/mL (except for OCDD which is 200 ng/mL) and the sample spiking volume is 20 µL. The resulting concentrations in the final extracts are as specified in the method.

Section 7.11

The concentration of the clean-up standard spiking solution is 10 ng/mL and the sample spiking volume is 20 µL. The resulting concentration in the final extracts are as specified in the method.

Sections 7.13, 14.0, 15.0

An additional lower level calibration solution, 0.2 times the concentration of CS1, is prepared and included in the initial calibration series. Initial calibration is based on a six-point series.

Section 7.14

The concentration of the PAR spiking solutions is 0.2/1.0/2.0 ng/mL for tetra/penta, hexa, hepta, hexa/octas respectively and the spiking volume is 1 mL. The resulting final concentration in the extracts are as specified in the method.

Section 9.3.3, Table 7

Acceptance criteria for the percent recovery of surrogate standards in samples have been revised. Criteria that are higher than 130% have been lowered to 130%, as presented in Table 1.



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Section 11.5

Aqueous samples containing >1% visible solids are prepared and extracted using the same procedure as samples containing \leq 1% visible solids. This involves extracting the solids by soxhlet and the filtrate by separatory funnel extraction and combining the extract from the two phases.

Section 12.0

Samples with sufficiently low moisture content may be mixed with Na₂SO₄ and extracted using regular soxhlet apparatus in 80:20 toluene:acetone.

Section 12.4

The equilibration time for the sodium sulphate drying step is that required to produce a dry, free flowing powder (minimum thirty minutes). This may be less than the 12-hour minimum specified in EPA 1613B.

Section 12.5.1

Samples are spiked with cleanup standard right after extraction and before reduction; not spiked into the separatory funnels containing the extracts prior to the acid/base wash.

Section 12.6.1.1

Rotary evaporator baths are maintained at 35°C. Mimic proofs are collected instead of collecting proofs each day and archiving.

Section 13.0

Extracts may be cleaned up on silica, alumina and carbon chromatographic columns using a Fluid Management System (FMS) automated cleanup system.

Section 13.7

Gravimetric lipid analysis is carried out on two subsamples of the extract.

Sections 14.0, 15.0, 16.0, Table 8, Table 9

M/Z channels 354/356 and 366/368 are used to confirm and quantify the native and surrogate penta-substituted dioxins, respectively; this change from the method's specification is made in the instrument method in order to avoid a persistent interference in the 356/358 and 368/370 M/Z channels. The theoretical ratio for the P5CDD M/M+2 ions is 0.61; therefore, the acceptance range is 0.52 - 0.70.

Section 15.3.5, Table 6

Acceptance criteria for calibration verification concentrations have been modified, as presented in Table 1, so that ranges do not exceed 70-130% of the test concentration.

Section 15.5.3 Table 6

Acceptance specifications for OPR concentrations have been modified, as presented in Table 1, so that ranges do not exceed 70-130%.

Section 17.0

Conc_i - the concentrations of target analytes, and the labelled compound concentrations and recoveries, are calculated using the equations below. These procedures are equivalent to those described in the method but are more direct.



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$$Conc_i = \frac{A_i}{A_{si}} \times \frac{M_{si}}{RRF_{i,si}} \times \frac{1}{M_x}$$

- where A_i = summed areas of the primary and secondary m/z's for the analyte peak of interest (compound i)
- A_{si} = summed areas of the primary and secondary m/z's for the labelled surrogate peak used to quantify i)
- M_x = mass of sample taken for analysis
- M_{si} = mass of labelled surrogate (compound si) added to sample as calculated by the concentration of standard spiked (pg/mL) multiplied by the volume spiked (mL)
- $RRF_{i,si}$ = mean relative response factor of i to si from the five-point calibration range and defined individually as:

$$\frac{A_i}{A_{si}} \times \frac{M_{si}}{M_i}$$

Calculation of Surrogate Standard Concentrations and Percent Recoveries:

Concentrations of surrogate standards are calculated using the following equation:

$$Conc_{si} = \frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{RRF_{si,rs}}$$

and, the percent recoveries of the surrogate standards are calculated using the following equation:

$$\% Recovery = \frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{RRF_{si,rs}} \times \frac{1}{M_{si}} \times 100$$

- where A_{rs} and A_{si} are the summed peak areas (from the primary and secondary m/z channels) of recovery standard and labelled surrogate added to the sample;
- M_{rs} and M_{si} are the masses of recovery standard and labelled surrogate added to the sample, and;
- $RRF_{si,rs}$ is the mean relative response factor of the labelled surrogate to the recovery standard as determined by the five-point calibration range and defined individually as:

$$\frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{M_{si}}$$

Section 17.5

Extracts may be diluted with solvent and re-analyzed by GC/MS isotope-dilution to bring the instrumental response to within the linear range of the instrument. For very high-level samples where a smaller sample aliquot may not be representative, extracts may be diluted and re-spiked with labelled quantification standards and re-analyzed by GC/MS to bring the instrumental response analytes within range. Final results may be recovery corrected using the mean recovery of labelled quantification standards.



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Table 1. QC Acceptance Criteria for PCDD/F in CAL/VER, IPR, OPR and Test Samples¹

	Test Conc ng/mL	IPR ²		OPR ³ (%)	I-CAL %	CAL/VER ⁴ (%)	Labelled Cmpd %Rec. in Sample	
		RSD (%)	X(%)				Warning Limit	Control Limit
Native Compound								
2,3,7,8-TCDD	10	28	83-129	70-130	20	78-129	-	-
2,3,7,8-TCDF	10	20	87-137	75-130	20	84-120	-	-
1,2,3,7,8-PeCDD	50	15	76-132	70-130	20	78-130	-	-
1,2,3,7,8-PeCDF	50	15	86-124	80-130	20	82-120	-	-
2,3,4,7,8-PeCDF	50	17	72-150	70-130	20	82-122	-	-
1,2,3,4,7,8-HxCDD	50	19	78-152	70-130	20	78-128	-	-
1,2,3,6,7,8-HxCDD	50	15	84-124	76-130	20	78-128	-	-
1,2,3,7,8,9-HxCDD	50	22	74-142	70-130	35	82-122	-	-
1,2,3,4,7,8-HxCDF	50	17	82-108	72-130	20	90-112	-	-
1,2,3,6,7,8-HxCDF	50	13	92-120	84-130	20	88-114	-	-
1,2,3,7,8,9-HxCDF	50	13	84-122	78-130	20	90-112	-	-
2,3,4,6,7,8-HxCDF	50	15	74-158	70-130	20	88-114	-	-
1,2,3,4,6,7,8-HpCDD	50	15	76-130	70-130	20	86-116	-	-
1,2,3,4,6,7,8-HpCDF	50	13	90-112	82-122	20	90-110	-	-
1,2,3,4,7,8,9-HpCDF	50	16	86-126	78-130	20	86-116	-	-
OCDD	100	19	86-126	78-130	20	79-126	-	-
OCDF	100	27	74-146	70-130	35	70-130	-	-
Surrogate Standards								
¹³ C ₁₂ -2,3,7,8-TCDD	100	37	28-134	25-130	35	82-121	40-120	25-130
¹³ C ₁₂ -2,3,7,8-TCDF	100	35	31-113	25-130	35	71-130	40-120	24-130
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100	39	27-184	25-150	35	70-130	40-120	25-130
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100	34	27-156	25-130	35	76-130	40-120	24-130
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100	38	16-279	25-130	35	77-130	40-120	21-130
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100	41	29-147	25-130	35	85-117	40-120	32-130
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100	38	34-122	25-130	35	85-118	40-120	28-130
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100	43	27-152	25-130	35	76-130	40-120	26-130
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100	35	30-122	25-130	35	70-130	40-120	26-123
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100	40	24-157	25-130	35	74-130	40-120	29-130
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100	37	29-136	25-130	35	73-130	40-120	28-130
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100	35	34-129	25-130	35	72-130	40-120	23-130
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100	41	32-110	25-130	35	78-129	40-120	28-130
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100	40	28-141	25-130	35	77-129	40-120	26-130
¹³ C ₁₂ -OCDD	200	48	20-138	25-130	35	70-130	25-120	17-130
Cleanup Standard								
³⁷ Cl ₄ -2,3,7,8-TCDD	10	36	39-154	31-130	35	79-127	40-120	35-130

¹ QC acceptance criteria for IPR, OPR, and samples based on a 20 µL extract final volume² IPR: Initial Precision and Recovery demonstration³ OPR: Ongoing Precision and Recovery test run with every batch of samples.⁴ CAL VER: Calibration Verification test run at least every 12 hours

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Table 2. QC Specifications for QC Samples, Instrumental Analysis, and Analyte Quantification

QC Parameter	Specification
Analysis Duplicate	Must agree to within $\pm 20\%$ of the mean (applicable to concentrations > 10 times the DL) ¹
Procedural Blank	Blood: TCDD/F < 0.2 pg/sample, PeCDD/F < 0.5 pg/sample, HxCDD/F and HpCDD/F < 1.0 pg/ sample, OCDD/F < 5 pg/sample Other Matrices: TCDD/F < 0.5 pg/sample, PeCDD/F, HxCDD/F, HpCDD/F < 1.0 pg/sample, OCDD/F < 5 pg/sample Higher levels acceptable where all sample concentrations a $> 10X$ the blank
Detection Limit	SDL Requirements Blood: Tetra-penta-CDD/F 0.2 pg/sample Hexa-octa-CDD/F 0.5 pg/sample Other Matrices: 1 pg/sample
Instrument Carryover: Toluene Blank	A. 1 st toluene blank following CAL-VER must have < 0.6 pg TCDD and < 25 pg OCDD B. 2 nd toluene blank following CAL-VER must have < 0.2 pg TCDD and < 0.8 pg Pe – HpCDD/f, and < 0.5 pg OCDD.
Samples	$< 10\%$ contribution from preceding sample (based on observed instrument carryover)
Analyte/Surrogate Ratios	Response must be within the calibrated range of the instrument. Coders may use data from more than one chromatogram to get the responses in the calibrated range.
Ion Ratios	Must be within $\pm 15\%$ of theoretical
Sensitivity	S:N $\geq 10:1$ for all compounds for 0.1 pg/ μ L (CS-0.2), plus For bloods: S:N $\geq 3:1$ for 0.025 pg/ μ L 2,3,7,8-T4CDD

¹ Duplicate criterion is a guideline; final assessment depends upon sample characteristics, overall batch QC and on-going lab performance.



Geomatrix Consultants

COVER PAGE AND CORRELATION TABLE

DIOXIN/FURAN ANALYSIS

Lab Name: AXYS Analytical Services Ltd.	Project Manager: Teresa Rawsthorne
Project Number: 10654.001	Contract No: 4390
Project Name: N/A	AXYS Method: MLA-017
Data Package Identification: DPWG29567	Program: Solid Samples
Client Sample No.	Lab Sample ID
LAB BLANK	WG29271-101
OPR	WG29271-102
CERTIFIED REFERENCE MATERIAL	WG29271-104
COMPOSITE GROUP 1	L12912-1
COMPOSITE GROUP 2	L12912-2
COMPOSITE GROUP 3	L12912-3
COMPOSITE GROUP 4	L12912-4
COMPOSITE GROUP 5	L12912-5
10654007	L12912-6
10654014	L12912-7
10654018	L12912-8
10654034	L12912-9 WG29271-103 DUPLICATE

7570

CUSTODY TRANSFER

Printed: 06/25/09

ARI Job No: PD91



4611 South 134th Place, Suite 100
 Tukwila WA 98168
 206-695-6200 206-695-6201 (fax)

ARI Project Manager: Mark Harris	Client Contact:	Sampling Event: 10654.000	Samples Received: 06/22/09
	Client: AMEC Geomatrix	Project: FORMER CUSTOM PLYWOOD PROJECT	Sample Site: NA

LOGNUM ARI ID	CLIENT ID	MATRIX	# CONTAINERS	ANALYTICAL REQUEST	ANALYTICAL REQUEST	ANALYTICAL REQUEST	COMMENTS
09-14456 PD91A	COMPOSITE GROUP1	Sediment	1	Dioxan	L12912-1		
09-14457 PD91B	COMPOSITE GROUP2	Sediment	1	Dioxan	-2		
09-14458 PD91C	COMPOSITE GROUP3	Sediment	1	Dioxan	-3		
09-14459 PD91D	COMPOSITE GROUP4	Sediment	1	Dioxan	-4		
09-14460 PD91E	COMPOSITE GROUP5	Sediment	1	Dioxan	-5		

Comments/Special Instructions: Dioxins Method 1631B	Relinquished By: 	Received by: (Signature)
	Printed Name: Rich Hudson	Printed Name: Rob Gilmore
	Company: ARI	Company: AMEC Geomatrix
	Date/Time: 6/25/09 1440	Date/Time: 6/25/09 1440

Relinquished By: 	Received by: (Signature)
Printed Name: Rob Gilmore	Printed Name: M. MASLIN
Company: AMEC	Company: AXYS
Date/Time: 6/29/09 1300	Date/Time: 30 June-09 15



CUSTODY TRANSFER

Printed: 06/25/09

ARI Job No: NP12



4611 South 134th Place, Suite 100
 Tukwila WA 98168
 206-695-6200 206-695-6201 (fax)

ARI Project Manager: Mark Harris	Client Contact: Kathleen Goodman	Sampling Event: 10654.001	Samples Received: 09/12/08
	Client: Geomatrix, Inc.	Project: FORMER CUSTOM PLYWOOD SITE	Sample Site: NA

LOGNUM ARI ID	CLIENT ID	MATRIX	# CONTAINERS	ANALYTICAL REQUEST	ANALYTICAL REQUEST	ANALYTICAL REQUEST	COMMENTS
08-23940 NP12G	10654007	Sediment	1	Dioxian	U2912-6		
08-23947 NP12N	10654014	Sediment	1	Dioxian	-7		

Comments/Special Instructions:
 Dioxins
 Method 1613 B

Relinquished By: <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>
Printed Name: Rich Hudson	Printed Name: R Gilman
Company: ARI	Company: AME Geomatrix
Date/Time: 6/25/09 1446	Date/Time: 6/25/09 1440

Relinquished By: <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>
Printed Name: Rob Gilman	Printed Name: M. MASLIN
Company: AMEC	Company: AXYS.
Date/Time: 6/29/09 1300	Date/Time: 30-june-09 1



CUSTODY TRANSFER
Printed: 06/25/09
ARI Job No: NP13



4611 South 134th Place, Suite 100
 Tukwila WA 98168
 206-695-6200 206-695-6201 (fax)

ARI Project Manager: Mark Harris	Client Contact: Kathleen Goodman	Sampling Event: 10654.001	Samples Received: 09/12/08
	Client: Geomatrix, Inc.	Project: FORMER CUSTOM PLYWOOD SITE	Sample Site: NA

LOGNUM ARI ID	CLIENT ID	MATRIX	# CONTAINERS	ANALYTICAL REQUEST	ANALYTICAL REQUEST	ANALYTICAL REQUEST	COMMENTS
08-23951 NP13D	10654018	Sediment	1	Dioxan	U2912-8		
08-23967 NP13T	10654034	Sediment	1	Dioxan	-9		

Comments/Special Instructions:
 Dioxins
 Method 1613B

Relinquished By: <i>RL</i>	Received by: (Signature) <i>R. Gilmour</i>
Printed Name: Rich Hudson	Printed Name: R. Gilmour
Company: ARI	Company: AMEC Geomatrix
Date/Time: 6/25/09 1440	Date/Time: 6/28/09 1440

Relinquished By: <i>Rob Gilmour</i>	Received by: (Signature) <i>M. Maslin</i>
Printed Name: Rob Gilmour	Printed Name: M. MASLIN
Company: AMEC	Company: AXYS.
Date/Time: 6/29/09 1300	Date/Time: 30-june-09 10



4390

From: Origin ID: PAEA (425) 921-4000
Diane Shannon
AMEC Geomatrix Inc.
3500 188th Street SW
Suite 600
Lynnwood, WA 98037
UNITED STATES



Ship Date: 29JUN09
ActWgt: 38.0 LB
CAD: 9721840/NET9060
Account#: S *****
Dims: 23 X 13 X 18 IN

REF:
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DESC-2:
DESC-3:
DESC-4:
EEI: NO EEI 30.36
COUNTRY MFG: US
CARRIAGE VALUE: 0.00 USD
CUSTOMS VALUE: 45.00 USD
T/C: S 339651221 D/T: S 339651221
SIGN: Diane Shannon
EIN/VAT:
PKG TYPE: CUSTOMER

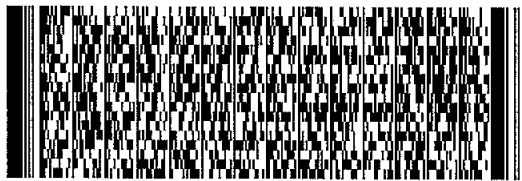
SHIP TO: (250) 655-5800 BILL SENDER
SAMPLE RECEIVING
AXYS Analytical Services Ltd.
2045 Mills Road

Sidney, BC V8L5X2
CA

TRK# 7977 2197 9317
0430

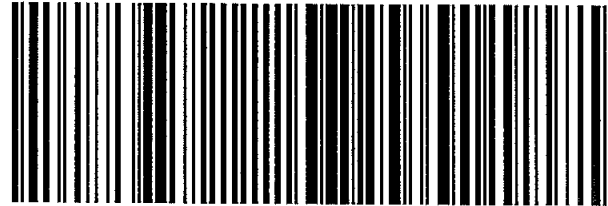
INTL PRIORITY

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XH YYJA

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BC-CA
YVR



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Diane Shannon
AMEC Geomatrix Inc.
3500 188th Street SW
Suite 600
Lynnwood, WA 98037
UNITED STATES



J05200906152123

Ship Date: 29JUN09
ActWgt: 38.0 LB
CAD: 9721840/INET9060
Account#: S *****
Dims: 23 X 13 X 18 IN

REF:
DESC-1: 500 ML clear glass jars containing soil samples for environm
DESC-2:
DESC-3:
DESC-4:
EEI: NO EEI 30,36
COUNTRY MFG: US
CARRIAGE VALUE: 0.00 USD
CUSTOMS VALUE: 45.00 USD
T/C: S 339651221 D/T: S 339651221
SIGN: Diane Shannon
EIN/VAT:
PKG TYPE: CUSTOMER

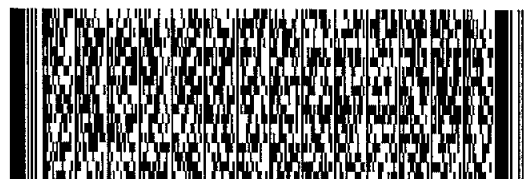
SHIP TO: (250) 655-5800 BILL SENDER
SAMPLE RECEIVING
AXYS Analytical Services Ltd.
2045 Mills Road

Sidney, BC V8L5X2
CA

TRK# 7977 2197 9317
0430

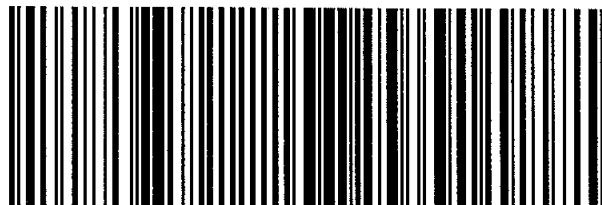
INTL PRIORITY

AM



XH YYJA

V8L5X2
BC-CA
YVR



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4390

From: Origin ID: PAEA (425) 921-4000
Diane Shannon
AMEC Geomatrix Inc.
3500 188th Street SW
Suite 600
Lynnwood, WA 98037
UNITED STATES



Ship Date: 29JUN09
ActWgt: 38.0 LB
CAD: 9721840/NET9060
Account#: S *****
Dims: 23 X 13 X 18 IN

REF:
DESC-1: 500 ML clear glass jars containing soil samples for environm
DESC-2:
DESC-3:
DESC-4:
EEI: NO EEI 30.36
COUNTRY MFG: US
CARRIAGE VALUE: 0.00 USD
CUSTOMS VALUE: 45.00 USD
T/C: S 339651221 D/T: S 339651221
SIGN: Diane Shannon
EIN/VAT:
PKG TYPE: CUSTOMER

M. Mash
30-june-09 19:00

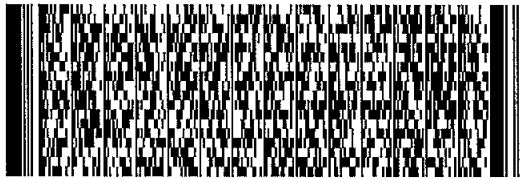
SHIP TO: (250) 655-5800 BILL SENDER
SAMPLE RECEIVING
AXYS Analytical Services Ltd.
2045 Mills Road

Sidney, BC V8L5X2
CA

TRK# 7977 2197 9317
0430

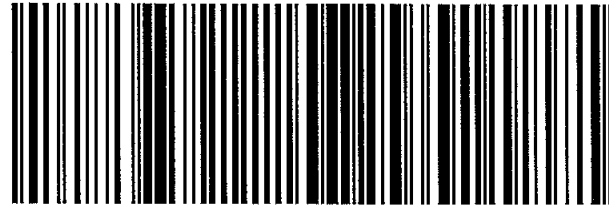
INTL PRIORITY

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4390

From: Origin ID: PAEA (425) 921-4000
Diane Shannon
AMEC Geomatrix Inc.
3500 188th Street SW
Suite 600
Lynnwood, WA 98037
UNITED STATES



J05200906152123

Ship Date: 29JUN09
ActWgt: 38.0 LB
CAD: 9721840/INET9060
Account#: S *****
Dims: 23 X 13 X 18 IN

REF:
DESC-1: 500 ML clear glass jars containing soil samples for environm
DESC-2:
DESC-3:
DESC-4:
EEI: NO EEI 30.36
COUNTRY MFG: US
CARRIAGE VALUE: 0.00 USD
CUSTOMS VALUE: 45.00 USD
T/C: S 339651221 D/T: S 339651221
SIGN: Diane Shannon
EIN/VAT:
PKG TYPE: CUSTOMER

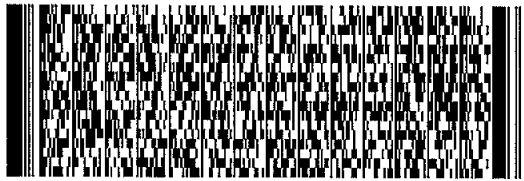
SHIP TO: (250) 655-5800 BILL SENDER
SAMPLE RECEIVING
AXYS Analytical Services Ltd.
2045 Mills Road

Sidney, BC V8L5X2
CA

TRK# 7977 2197 9317
0430

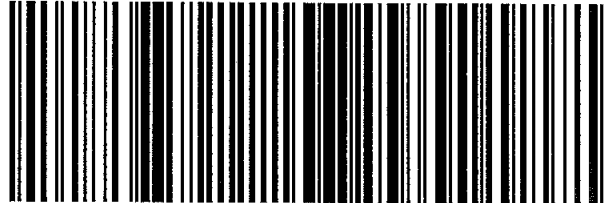
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AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes / No
Date Shipped: 29-JUN-09

Waybill #: 797721979317
Date /Time Received: 30-JUN-09 19:00

AXYS Client & Contract # 4390-AMEC - Geomatrix

Project Number:

Receipt No: WB7627

Received By: MMASLIN

Log in by: M.MASLIN Signature: M.Maslin

Axys Sample ID's: L12912-1 to 9

Matrix Type: 9 sed

Condition of Shipping Container: Intact

Temperature upon Receipt: 8 Celcius ice packs frozen/ starting to melt

Thermometer ID: 3093

Custody Seals: Shipping Containers Yes / No Intact Yes / No Seal Numbers Yes / No
Samples Yes / No Intact Yes / No Seal Numbers Yes / No

Chain of Custody or Documents: Yes / No
Sample ID's Yes / No
Collection Location Yes / No
Date & Time Collection Yes / No
Collector's Name Yes / No

Tracking Report /Packing List: Yes / No
Sample Tag Numbers Yes / No
Sample Type Yes / No
Preservative Added Yes / No
Preservation Requested Yes / No

Sample Tags Yes / No
Sample Labels Yes / No
Sample Labels Cross Referenced to COC Yes / No
Sample Tags Cross Referenced to Sample Labels Yes / No
Sample Tags Cross Referenced to COC Yes / No

Information Agrees Yes / No
Information Agrees Yes / No
Information Agrees Yes / No

Comments:

Samples arrived above temperature.

Action Taken:





AXYS Analytical Services Ltd.
Login Chain of Custody Report (In01)
 Jul. 02, 2009
 01:34 PM

For scanning IR.

Login Number: L12912
Account: 4390 AMEC - Geomatrix
Project: PROJECT 10654.001

Axys ID versus Client Sample Identification			Received	Due	PR
L12912-1 ✓			30-JUN-09 ✓		
	Storage: wIF-4, 1C	Permit #: P-2009-01078			
COMPOSITE GROUP 1 ✓					
	Project #: PROJECT 10654.001				
Solid	2:MOISTURE		:		USD
Solid	7:MOISTURE		:		USD
Solid	DX1613 (DB 5)		:		USD
Solid	DX1613 (DB225)		:		USD
Solid	HOMOGENIZATION		:		USD
EDataDeliv	DX EDD		:		USD
D.Package	DX DATA PKG		:		USD
ANY	SAMPLE RECEIPT		1	: 500 mL glass	USD
L12912-2 ✓			30-JUN-09		
	Storage: wIF-4, 1C	Permit #: P-2009-01078			
COMPOSITE GROUP 2 ✓					
	Project #: PROJECT 10654.001				
Solid	2:MOISTURE		:		USD
Solid	7:MOISTURE		:		USD
Solid	DX1613 (DB 5)		:		USD
Solid	DX1613 (DB225)		:		USD
Solid	HOMOGENIZATION		:		USD
EDataDeliv	DX EDD		:		USD
D.Package	DX DATA PKG		:		USD
ANY	SAMPLE RECEIPT		1	: 500 mL glass	USD
L12912-3 ✓			30-JUN-09 ✓		
	Storage: wIF-4, 1C	Permit #: P-2009-01078			
COMPOSITE GROUP 3 ✓					
	Project #: PROJECT 10654.001				
Solid	2:MOISTURE		:		USD
Solid	7:MOISTURE		:		USD
Solid	DX1613 (DB 5)		:		USD
Solid	DX1613 (DB225)		:		USD
Solid	HOMOGENIZATION		:		USD
EDataDeliv	DX EDD		:		USD
D.Package	DX DATA PKG		:		USD
ANY	SAMPLE RECEIPT		1	: 500 mL glass	USD





AXYS Analytical Services Ltd.
Login Chain of Custody Report (In01)
Jul. 02, 2009
 01:34 PM

Login Number: L12912
Account: 4390 AMEC - Geomatrix
Project: PROJECT 10654.001

Axs ID versus Client Sample Identification		Received	Due	PR
L12912-4 ✓		30-JUN-09		
	Storage: wIF-4, 1C	Permit #: P-2009-01078		
COMPOSITE GROUP 4 ✓				
	Project #: PROJECT 10654.001			
Solid	2:MOISTURE	:		USD
Solid	7:MOISTURE	:		USD
Solid	DX1613 (DB 5)	:		USD
Solid	DX1613 (DB225)	:		USD
Solid	HOMOGENIZATION	:		USD
EDataDeliv	DX EDD	:		USD
D.Package	DX DATA PKG	:		USD
ANY	SAMPLE RECEIPT	1	: 500 mL glass	USD
L12912-5 ✓		30-JUN-09		
	Storage: wIF-4, 1C	Permit #: P-2009-01078		
COMPOSITE GROUP 5 ✓				
	Project #: PROJECT 10654.001			
Solid	2:MOISTURE	:		USD
Solid	7:MOISTURE	:		USD
Solid	DX1613 (DB 5)	:		USD
Solid	DX1613 (DB225)	:		USD
Solid	HOMOGENIZATION	:		USD
EDataDeliv	DX EDD	:		USD
D.Package	DX DATA PKG	:		USD
ANY	SAMPLE RECEIPT	1	: 500 mL glass	USD
L12912-6 ✓		30-JUN-09		
	Storage: wIF-4, 1C	Permit #: P-2009-01078		
10654007 ✓				
	Project #: PROJECT 10654.001			
Solid	2:MOISTURE	:		USD
Solid	7:MOISTURE	:		USD
Solid	DX1613 (DB 5)	:		USD
Solid	DX1613 (DB225)	:		USD
Solid	HOMOGENIZATION	:		USD
EDataDeliv	DX EDD	:		USD
D.Package	DX DATA PKG	:		USD
ANY	SAMPLE RECEIPT	1	: 500 mL glass	USD





AXYS Analytical Services Ltd.
Login Chain of Custody Report (In01)
Jul. 02, 2009
01:34 PM

Login Number: L12912
Account: 4390 AMEC - Geomatrix
Project: PROJECT 10654.001

Axy's ID versus Client Sample Identification		Received	Due	PR
L12912-7 ✓		30-JUN-09		
	Storage: wiF-4, 1C	Permit #: P-2009-01078		
10654014 ✓	Project #: PROJECT 10654.001			
Solid	2:MOISTURE	:		USD
Solid	7:MOISTURE	:		USD
Solid	DX1613 (DB 5)	:		USD
Solid	DX1613 (DB225)	:		USD
Solid	HOMOGENIZATION	:		USD
EDataDeliv	DX EDD	:		USD
D.Package	DX DATA PKG	:		USD
ANY	SAMPLE RECEIPT	1	: 500 mL glass	USD
L12912-8 ✓		30-JUN-09		
	Storage: wiF-4, 1C	Permit #: P-2009-01078		
10654018 ✓	Project #: PROJECT 10654.001			
Solid	2:MOISTURE	:		USD
Solid	7:MOISTURE	:		USD
Solid	DX1613 (DB 5)	:		USD
Solid	DX1613 (DB225)	:		USD
Solid	HOMOGENIZATION	:		USD
EDataDeliv	DX EDD	:		USD
D.Package	DX DATA PKG	:		USD
ANY	SAMPLE RECEIPT	1	: 500 mL glass	USD
L12912-9 ✓		30-JUN-09		
	Storage: wiF-4, 1C	Permit #: P-2009-01078		
10654034 ✓	Project #: PROJECT 10654.001			
Solid	2:MOISTURE	:		USD
Solid	7:MOISTURE	:		USD
Solid	DX1613 (DB 5)	:		USD
Solid	DX1613 (DB225)	:		USD
Solid	HOMOGENIZATION	:		USD
EDataDeliv	DX EDD	:		USD
D.Package	DX DATA PKG	:		USD
ANY	SAMPLE RECEIPT	1	: 500 mL glass	USD



Teresa Rawsthorne

From: Gilmour, Robert H [Rob.Gilmour@amec.com]
Sent: Thursday, July 02, 2009 9:12 AM
To: Teresa Rawsthorne
Subject: RE: Dioxin /furan analysis for sediment samples from Custom Plywood Site, Project 10654.001

Teresa,
Calculated TEQs will probably be 5 to 10 pptr but some of the samples may be around 40 pptr. Linda Bohannon at Ecochem will be doing the data validation on the package. Please go ahead with the analysis. Do you have any information on how sensitive dioxins are to elevated temperatures? I thought dioxins were very stable in sediments and wouldn't change much.

Robert Gilmour
rob.gilmour@amec.com

From: Teresa Rawsthorne [mailto:trawsthorne@axys.com]
Sent: Thursday, July 02, 2009 8:33 AM
To: Gilmour, Robert H
Subject: RE: Dioxin /furan analysis for sediment samples from Custom Plywood Site, Project 10654.001

Good morning Rob,

We have received the samples and hope to begin analysis tomorrow.

I wanted to double check a few things when you have a minute:

- 1) Do you have any estimates on levels?
- 2) Who should receive the EDD and data package?

Thanks!
Teresa

-----Original Message-----

From: Gilmour, Robert H [mailto:Rob.Gilmour@amec.com]
Sent: Wednesday, June 24, 2009 10:38 AM
To: Teresa Rawsthorne
Subject: Dioxin /furan analysis for sediment samples from Custom Plywood Site, Project 10654.001

Teresa,
We have another sediment project that needs dioxin analysis. The project is Custom Plywood and our project number is 10654.001. We will have 9 sediment samples for analysis plus we will need a SRM (SRM#1944) analyzed with the batch. We will be shipping the samples up to you on Monday so you should get them Tuesday June 30. That should avoid your July 1st holiday. We will need a standard TAT, data package, and EDD. We also need to be pre-billed for the 10 analyses. The analyses are going to be funded using a grant from the WA Department of Ecology and the invoices need to be submitted before July 1, 2009. Please email the invoice to me and I will get it submitted.

Thank you,
If you have any questions please call or email.
We will let you know when we ship the samples FEDEX and email the tracking number.

Robert Gilmour | Project Scientist
AMEC Geomatrix | 3500 188th Street SW, Suite 600 | Lynnwood, WA 98037-4763
425.921.4003 (direct) | 425.921.4040 (fax) | rob.gilmour@amec.com

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AXYS Analytical Services Ltd

SOLID PREPARATION RECORD

Axys Sample ID: L12912-1 Axys Contract No.: 4390

Date: 02 Jul 09 Time: 11:05 Analyst(s): EMS Initials

Client Label: Composite Group 1

Sample Description:

Wet ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standing Water : <input type="checkbox"/> None <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	Rocks Present ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant amount of Clay present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Sand present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Significant amount of Loam present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Invertebrates Present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Colour : <u>Black</u>
Original Containers : <u>500ml amber jar</u>		Suspected High Level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Foreign Objects Present : <u>shell pieces</u>		
Other : <u> </u>		

Procedure :

Standing Water	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Stirred in to Sample	<input type="checkbox"/> Decanted/Discarded
Rocks	<input type="checkbox"/> N/A	<input type="checkbox"/> Not Removed	<input checked="" type="checkbox"/> Removed Rocks larger than <u>4</u> mm
Vegetation	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Invertebrates	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Foreign Objects	<input type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample
Protocols Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals
Deviations From SOP SLA-013 : <u> </u>			

Equipment:

<input type="checkbox"/> 4mm Sieve	<input type="checkbox"/> Stainless Steel Bowl	<input checked="" type="checkbox"/> Spoon	<input checked="" type="checkbox"/> Forceps	<input type="checkbox"/> Blender B07	<input type="checkbox"/> Pipette
<input checked="" type="checkbox"/> Scissors	Other: <u> </u>				

Sample Weights

Before Preparation	
Sample & container:	<u>657</u> g
Container:	<u>340</u> g
Sample:	<u>317</u> g
Water discarded:	<u>0</u> g

After Preparation	
Sample & container:	<u>566</u> g
Container:	<u>323</u> g
Sample:	<u>243</u> g

Subsample	Jar Size	Weight
<u>1 of 1 -</u>	<u>500</u> ml	<u>238</u> g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g

Paperwork Checked (Initials): gy Date: 23-Jul-09



AXYS Analytical Services Ltd

SOLID PREPARATION RECORD

Axys Sample ID: L1.2912-2 Axys Contract No.: 4390

Date: 02 Jul 09 Time: 11:40 Analyst(s): GMS Initials

Client Label: Composite Group 2

Sample Description:

Wet ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standing Water : <input type="checkbox"/> None <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	Rocks Present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant amount of Clay present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Sand present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Significant amount of Loam present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Invertebrates Present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Colour: <u>Black</u>
Original Containers: <u>500ml amber jar</u>		Suspected High Level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Foreign Objects Present: <u>some shell pieces</u>		
Other: <u>/</u>		

Procedure :

Standing Water	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Stirred in to Sample	<input type="checkbox"/> Decanted/Discarded
Rocks	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Not Removed	<input type="checkbox"/> Removed Rocks larger than _____ mm
Vegetation	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample <u>some large pieces of wood removed</u>
Invertebrates	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Foreign Objects	<input type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample
Protocols Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals
Deviations From SOP SLA-013: <u>/</u>			

Equipment:

<input type="checkbox"/> 4mm Sieve	<input type="checkbox"/> Stainless Steel Bowl	<input checked="" type="checkbox"/> Spoon	<input checked="" type="checkbox"/> Forceps	<input type="checkbox"/> Blender B07	<input type="checkbox"/> Pipette
<input checked="" type="checkbox"/> Scissors	Other: <u>/</u>				

Sample Weights

Before Preparation	
Sample & container:	<u>929</u> g
Container:	<u>356</u> g
Sample:	<u>573</u> g
Water discarded:	<u>/</u> g

After Preparation	
Sample & container:	<u>79.8</u> g
Container:	<u>322</u> g
Sample:	<u>476</u> 476 ⁴⁷⁶ <u>02 Jul 09</u> g

Subsample	Jar Size	Weight
<u>1 of 2</u>	<u>250</u> ml	<u>180</u> g
<u>2 of 2</u>	<u>500</u> ml	<u>289</u> g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g

Paperwork Checked (Initials): sy Date: 23-Jul-09



AXYS Analytical Services Ltd

SOLID PREPARATION RECORD

Axys Sample ID: L12912-3 Axys Contract No.: 4390

Date: 02 Jul 09 Time: 12:15 Analyst(s): gms Initials

Client Label: Composite Group 3

Sample Description:

Wet? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standing Water: <input type="checkbox"/> None <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	Rocks Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant amount of Clay present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Sand present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Significant amount of Loam present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Invertebrates Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Colour: <u>Black</u>
Original Containers: <u>25 Jul 09 54</u> <u>1x 500ml amber jar</u>	Suspected High Level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Foreign Objects Present: <u>some shell pieces</u>		
Other: <u>/</u>		

Procedure:

Standing Water	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Stirred in to Sample	<input type="checkbox"/> Decanted/Discarded
Rocks	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Not Removed	<input type="checkbox"/> Removed Rocks larger than _____ mm
Vegetation	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample <u>some larger pieces of wood removed</u>
Invertebrates	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Foreign Objects	<input type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample
Protocols Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals
Deviations From SOP SLA-013: <u>/</u>			

Equipment:

<input type="checkbox"/> 4mm Sieve	<input type="checkbox"/> Stainless Steel Bowl	<input checked="" type="checkbox"/> Spoon	<input checked="" type="checkbox"/> Forceps	<input type="checkbox"/> Blender B07	<input type="checkbox"/> Pipette
<input checked="" type="checkbox"/> Scissors	Other: <u>/</u>				

Sample Weights

Before Preparation	
Sample & container:	<u>698</u> g
Container:	<u>347</u> <u>698</u> <u>cus</u> <u>02 Jul 09</u> g
Sample:	<u>351</u> g
Water discarded:	<u>0</u> g

After Preparation	
Sample & container:	<u>630</u> g
Container:	<u>322</u> g
Sample:	<u>308</u> g

Subsample	Jar Size	Weight
<u>1 of 1</u>	<u>500</u> ml	<u>301</u> g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g

Paperwork Checked (Initials): gy Date: 23-Jul-09



AXYS Analytical Services Ltd

SOLID PREPARATION RECORD

Axys Sample ID: L12912-4 Axys Contract No.: 4390

Date: 02 Jul 09 Time: 13.10 Analyst(s): SMO
Initials

Client Label: Composite Group A
 Sample Description:

Wet ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standing Water : <input type="checkbox"/> None <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	Rocks Present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant amount of Clay present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Sand present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Significant amount of Loam present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Invertebrates Present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Colour: <u>Black</u>
Original Containers <u>1x500ml clear Jar.</u>		Suspected High Level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Foreign Objects Present: <u>small pieces of shell</u>		
Other: _____		

Procedure :

Standing Water	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Stirred in to Sample	<input type="checkbox"/> Decanted/Discarded
Rocks	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Not Removed	<input type="checkbox"/> Removed Rocks larger than _____ mm
Vegetation	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample <i>Small pieces of wood some larger pieces of wood removed</i>
Invertebrates	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Foreign Objects	<input type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample
Protocols Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals
Deviations From SOP SLA-013 : _____			

Equipment:

<input type="checkbox"/> 4mm Sieve	<input type="checkbox"/> Stainless Steel Bowl	<input checked="" type="checkbox"/> Spoon	<input checked="" type="checkbox"/> Forceps	<input type="checkbox"/> Blender B07	<input type="checkbox"/> Pipette
<input checked="" type="checkbox"/> Scissors	Other: _____				

Sample Weights

Before Preparation	
Sample & container:	<u>665</u> g
Container:	<u>342</u> g
Sample:	<u>323</u> g
Water discarded:	<u>0</u> g

After Preparation	
Sample & container:	<u>599</u> g
Container:	<u>326</u> g
Sample:	<u>273</u> g

Subsample	Jar Size	Weight
<u>1 of 1</u>	<u>500</u> ml	<u>270</u> g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g

Paperwork Checked (Initials): SY Date: 23-Jul-09



AXYS Analytical Services Ltd

SOLID PREPARATION RECORD

Axys Sample ID: L12912-S Axys Contract No.: 4390

Date: 02 Jul 09 Time: 13.30 Analyst(s): gms Initials

Client Label: Composite groups

Sample Description:

Wet? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standing Water: <input type="checkbox"/> None <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	Rocks Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant amount of Clay present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Sand present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Significant amount of Loam present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Invertebrates Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Colour: <u>Black</u>
Original Containers <u>1x500ml clear jar</u>		Suspected High Level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Foreign Objects Present: <u>small shell pieces</u>		
Other: <u>/</u>		

Procedure:

Standing Water	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Stirred in to Sample	<input type="checkbox"/> Decanted/Discarded
Rocks	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Not Removed	<input type="checkbox"/> Removed Rocks larger than _____ mm
Vegetation	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Invertebrates	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Foreign Objects	<input type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample
Protocols Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals
Deviations From SOP SLA-013: <u>/</u>			

Equipment:

<input type="checkbox"/> 4mm Sieve	<input type="checkbox"/> Stainless Steel Bowl	<input checked="" type="checkbox"/> Spoon	<input checked="" type="checkbox"/> Forceps	<input type="checkbox"/> Blender B07	<input type="checkbox"/> Pipette
<input checked="" type="checkbox"/> Scissors	Other: <u>/</u>				

Sample Weights

Before Preparation	
Sample & container:	<u>838</u> g
Container:	<u>348</u> g
Sample:	<u>540</u> g
Water discarded:	<u>0</u> g

After Preparation	
Sample & container:	<u>838</u> g
Container:	<u>322</u> g
Sample:	<u>516</u> g

Subsample	Jar Size	Weight
<u>1 of 2</u>	<u>250 ml</u>	<u>234 g</u>
<u>2 of 2</u>	<u>500 ml</u>	<u>277 g</u>
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g

Paperwork Checked (Initials): Sy Date: 27-Jul-09



AXYS Analytical Services Ltd

SOLID PREPARATION RECORD

Axys Sample ID: L12912-6 Axys Contract No.: 4390

Date: 02 Jul 09 Time: 13:55 Analyst(s): SWW
Initials

Client Label: 10654007

Sample Description:

Wet? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standing Water: <input type="checkbox"/> None <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	Rocks Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant amount of Clay present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Sand present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Significant amount of Loam present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Invertebrates Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Colour: <u>Black</u>
Original Containers: <u>1x500ml clear jar</u>		Suspected High Level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Foreign Objects Present: <u>some shell pieces</u>		
Other: <u> </u>		

Procedure:

Standing Water	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Stirred in to Sample	<input type="checkbox"/> Decanted/Discarded
Rocks	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Not Removed	<input type="checkbox"/> Removed Rocks larger than _____ mm
Vegetation	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample <u>some wood removed</u>
Invertebrates	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Foreign Objects	<input type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample
Protocols Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals
Deviations From SOP SLA-013: <u> </u>			

Equipment:

<input type="checkbox"/> 4mm Sieve	<input type="checkbox"/> Stainless Steel Bowl	<input checked="" type="checkbox"/> Spoon	<input checked="" type="checkbox"/> Forceps	<input type="checkbox"/> Blender B07	<input type="checkbox"/> Pipette
<input checked="" type="checkbox"/> Scissors	Other: <u> </u>				

Sample Weights

Before Preparation	
Sample & container:	<u>891</u> g
Container:	<u>349</u> g
Sample:	<u>542</u> g
Water discarded:	<u>0</u> g

After Preparation	
Sample & container:	<u>843</u> g
Container:	<u>322</u> g
Sample:	<u>521</u> g

Subsample	Jar Size	Weight
<u>1 of 2</u>	<u>250</u> ml	<u>201</u> g
<u>2 of 2</u>	<u>500</u> ml	<u>312</u> g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g

Paperwork Checked (Initials): SY Date: 27-Jul-09



AXYS Analytical Services Ltd

SOLID PREPARATION RECORD

Axys Sample ID: L12912-7 Axys Contract No.: 4390

Date: 02 Jul 09 Time: 14:25 Analyst(s): gms Initials

Client Label: 1065401A

Sample Description:

Wet ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standing Water : <input type="checkbox"/> None <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	Rocks Present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant amount of Clay present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Sand present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Significant amount of Loam present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Invertebrates Present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Colour: <u>Black</u>
Original Containers: <u>1x 500ml clear jar</u>		Suspected High Level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Foreign Objects Present: <u>some shell pieces</u>		
Other: <u>/</u>		

Procedure :

Standing Water	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Stirred in to Sample	<input type="checkbox"/> Decanted/Discarded
Rocks	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> Not Removed ^{gms 02 Jul 09}	<input type="checkbox"/> Removed Rocks larger than _____ mm
Vegetation	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample <u>some large piece of wood removed</u>
Invertebrates	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Foreign Objects	<input type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample
Protocols Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals
Deviations From SOP SLA-013 : <u>/</u>			

Equipment:

<input type="checkbox"/> 4mm Sieve	<input type="checkbox"/> Stainless Steel Bowl	<input checked="" type="checkbox"/> Spoon	<input checked="" type="checkbox"/> Forceps	<input type="checkbox"/> Blender B07	<input type="checkbox"/> Pipette
<input checked="" type="checkbox"/> Scissors	Other: <u>/</u>				

Sample Weights

Before Preparation	
Sample & container:	<u>918</u> g
Container:	<u>344</u> g
Sample:	<u>574</u> g
Water discarded:	<u>0</u> g

After Preparation	
Sample & container:	<u>813</u> g
Container:	<u>325</u> g
Sample:	<u>488</u> g

Subsample	Jar Size	Weight
<u>1 of 2</u>	<u>250</u> ml	<u>175</u> g
<u>2 of 2</u>	<u>300</u> ml	<u>304</u> g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g

Paperwork Checked (Initials): sy Date: 23-Jul-09



AXYS Analytical Services Ltd

SOLID PREPARATION RECORD

Axys Sample ID: L12912-8 Axys Contract No.: 4390

Date: 02 Jul 09 Time: 15:00 Analyst(s): CPW Initials

Client Label: 10654018

Sample Description:

Wet? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standing Water: <input type="checkbox"/> None <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	Rocks Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant amount of Clay present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Sand present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Significant amount of Loam present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Invertebrates Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Colour: <u>Black</u>
Original Containers: <u>1x500ml clear jar</u>		Suspected High Level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Foreign Objects Present: <u>some shell pieces</u>		
Other: <u>/</u>		

Procedure:

Standing Water	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Stirred in to Sample	<input type="checkbox"/> Decanted/Discarded
Rocks	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Not Removed	<input type="checkbox"/> Removed Rocks larger than _____ mm
Vegetation	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample <u>some wood removed</u>
Invertebrates	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Foreign Objects	<input checked="" type="checkbox"/> N/A <u>some shell</u>	<input type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample
Protocols Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals
Deviations From SOP SLA-013: <u>/</u>			

Equipment:

<input type="checkbox"/> 4mm Sieve	<input type="checkbox"/> Stainless Steel Bowl	<input checked="" type="checkbox"/> Spoon	<input checked="" type="checkbox"/> Forceps	<input type="checkbox"/> Blender B07	<input type="checkbox"/> Pipette
<input checked="" type="checkbox"/> Scissors	Other: <u>/</u>				

Sample Weights

Before Preparation	
Sample & container:	<u>911</u> g
Container:	<u>341</u> g
Sample:	<u>570</u> g
Water discarded:	<u>~1</u> g

After Preparation	
Sample & container:	<u>795</u> g
Container:	<u>321</u> g
Sample:	<u>474</u> g

Subsample	Jar Size	Weight
<u>1 of 2</u>	<u>250</u> ml	<u>173</u> g
<u>2 of 2</u>	<u>500</u> ml	<u>294</u> g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g

Paperwork Checked (Initials): Sy Date: 23 Jul 09 23-Jul-09 Sy



AXYS Analytical Services Ltd

SOLID PREPARATION RECORD

Axys Sample ID: L12912-9 Axys Contract No.: 4390
 Date: 02 Jul - 09 Time: 15:04 Analyst(s): RZ Initials
 Client Label: 10654034

Sample Description:

Wet ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standing Water : <input type="checkbox"/> None <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	Rocks Present ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Clay present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Significant amount of Sand present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Significant amount of Loam present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Invertebrates Present ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Colour : <u>Black/Grey</u>
Original Containers : <u>1 X 500 ml glass jar</u>		Suspected High Level? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Foreign Objects Present : <u>shell, wood</u>		
Other : <u>—</u>		

Procedure :

Standing Water	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Stirred in to Sample	<input type="checkbox"/> Decanted/Discarded
Rocks	<input type="checkbox"/> N/A	<input type="checkbox"/> Not Removed	<input checked="" type="checkbox"/> Removed Rocks larger than <u>4</u> mm
Vegetation	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Invertebrates	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input type="checkbox"/> Removed from Sample
Foreign Objects	<input type="checkbox"/> N/A	<input type="checkbox"/> Chopped	<input checked="" type="checkbox"/> Removed from Sample
Protocols Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals <u>Routine Organic</u>
Deviations From SOP SLA-013 : <u>—</u>			

Equipment:

<input type="checkbox"/> 4mm Sieve	<input type="checkbox"/> Stainless Steel Bowl	<input checked="" type="checkbox"/> Spoon	<input checked="" type="checkbox"/> Forceps	<input type="checkbox"/> Blender B07	<input type="checkbox"/> Pipette
<input type="checkbox"/> Scissors	Other: <u>—</u>				

Sample Weights

Before Preparation	
Sample & container:	<u>1118</u> g
Container:	<u>333</u> g
Sample:	<u>785</u> g
Water discarded:	g

After Preparation	
Sample & container:	<u>911</u> g
Container:	<u>325</u> g
Sample:	<u>586</u> g

Subsample	Jar Size	Weight
<u>1 of 1</u>	<u>500</u> ml	<u>577</u> g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g
	ml	g

Paperwork Checked (Initials): SY Date: 29-Jul-09



BATCH ID: WG29271

Method ID:	MLA-017 Rev.16
Method ID:	
Analyst:	
Start Date:	03-Jul-09
Batch List Author:	Surjit Dhesi
Checked By:	PT
Project Manager:	Teresa
Glassware Type:	Regular
Glassware Treatment:	Regular High
Rotovap Type:	Regular High

Matrix:	Solid
Sample size:	10 g
Moistures required?	YES
Lipids required?	NO
Extraction Solvent:	80:20 Tol: Ace
FMS Program:	DIOXIN-JUMBO-02.DGF
FMS Program:	
Save FMS discards?	NO
Biohazard Type:	Agricultural Biohazard

Comments:
 Sample size - 10g DRY (use weights as listed)

104 CRM - use 0.5g of NIST SRM 1944 (SC5036)

Calibration: | DX036D-CAL/

previous WG's associated with samples:

Contract #	Sample	Wt	Contract #	Sample	Wt
4390	L12912-1	14.0 g			
4390	L12912-2	20.5 g			
4390	L12912-3	20.0 g			
4390	L12912-4	19.5 g			
4390	L12912-5	18.0 g			
4390	L12912-6	24.0 g			
4390	L12912-7	23.5 g			
4390	L12912-8	20.5 g			
4390	L12912-9	14.5 g			

Spiking:

Product	Samples required:	Before Extraction: Surrogate	After Extraction: Cleanup Surrogate	Recovery	F.V.	U-vial	Comments:
DX1613 (DB 5)	ALL	(7002) #2, 1 03-Jul-09 20uL DX041A-SUR/ul	(7002) #2 01 20uL DX040A-SUR/ul 3-Jul-09 #13 (7002) LT	(7002) #13 20uL DX018A-REC/ul	20 uL	GCMS	none

BATCH ID: WG29271

QC Samples	Type and Weight	Analysis QC required for:	Authentic spiking:	Comments:	QC Samples	Type and Weight	Analysis QC required for:	Authentic spiking:	Comments:
WG29271-101 BLANK	10G 10-S-REF	DX1613 (DB 5)							
WG29271-102 SPM	10G 10-S-REF	DX1613 (DB 5)	1000uL DX026A-AUT/ 02 107	M4 3-Jul-09					
WG29271-103 DUP	CHOOSE LARGEST SAMPLE AND UPDATE LIMS	DX1613 (DB 5)							
WG29271-104 CRM	USE 0.5G NIST SRM 1944 (SC5036)	DX1613 (DB 5)							

Tuesday, July 07, 2009

08:56:27

Page: 1

Dxn-GPC File- C:\DMS6000\Routine use\dioxin-jumbo-02.dgf

dxwg29271, dioxin-jumbo-02.dgf, 07-jul-09 ES

Step	Flow	Vol	M1 - M8	M9 - M16	Smpl#	Description
1	10.0000	50.0000	01122006	00000000		Leaktest Silica
2	10.0000	10.0000	01222006	00000000		Flush bypass w\hexane
3	10.0000	30.0000	01212006	00000000		Wet Alumina
4	10.0000	20.0000	01221226	00000000		Wet Carbon
5	10.0000	250.000	01122006	00000000		Condition Silica
6	10.0000	12.0000	05222006	00000000		Change to toluene
7	10.0000	40.0000	05221226	00000000		Pre-Elute Carbon W\toluene
8	10.0000	12.0000	04222006	00000000		Change to Ethyl Acetate & Toluene
9	10.0000	10.0000	04221226	00000000		Pre-Elute Carbon W\Ethyl Acetate & Tolu
10	10.0000	12.0000	03222005	00000000		Change to 50% DCM/Hexane
11	10.0000	20.0000	03221225	00000000		Pre-Elute Carbon W\50% DCM&Hexane
12	10.0000	12.0000	01222006	00000000		Change to Hexane
13	10.0000	30.0000	01221226	00000000		Pre-Elute Carbon W\Hexane
14	0.05000	5.00000	01112006	00000000	0	Load Sample
15	9.00000	200.000	01112006	00000000	0	Elute Silica W\Hexane
16	10.0000	12.0000	02222005	00000000		Change to 2% DCM in Hexane
17	10.0000	60.0000	02212005	00000000	0	Elute Alumina W\2% DCM in Hexane
18	10.0000	12.0000	03222005	00000000		Change to 50% DCM&Hexane
19	10.0000	120.000	03211225	00000000		Elute W\50% DCM&Hexane
20	10.0000	12.0000	04222006	00000000		Change to Etyl Acetate & Toluene
21	10.0000	4.00000	04221226	00000000		Elute Carbon W\Ethyl Acetate & Toluene
22	10.0000	12.0000	01222006	00000000		Change to Hexane
23	10.0000	10.0000	01221226	00000000		Flush Carbon W\Hexane
24	10.0000	12.0000	05222006	00000000		Change to Toluene
25	5.00000	100.000	05221111	00000000	0	Elute PCDD/PCDF w/ Toluene
26	0.50000	0.05000	00000000	00000000		Shut Off Valves

1st Run, 07-Jul-09 *JE* (6 samples)
 2nd Run 07 Jul 09 *mb* (6 samples)
 3rd Run 02 Jul 09 *mb* (1 sample)



WorkGroup: WG29271

Sample	Contract	Product	Matrix	Lab Code	Additional Work Action	Reason	Requested by/date	Lab Completed by/Date	Inst. Completed by/Date	Tray No.	Tray Location	Tray Comments	Remedial Action
L12912-1	4390	DX1613 (DB 5)	S	I	REINJECT	Lost Lock Mass	XXIE 9/Jul/2009		ROBTONES 10/Jul/2009	HR-123	I10		
L12912-3	4390	DX1613 (DB 5)	S	I	REINJECT	LMI	ROBTONES 10/Jul/2009		XXIE 10/Jul/2009	HR-123	I12		
L12912-4	4390	DX1613 (DB 5)	S	I	REINJECT	LMI	ROBTONES 10/Jul/2009		XXIE 10/Jul/2009	HR-123	I13		
L12912-5	4390	DX1613 (DB 5)	S	I	REINJECT	LMI	ROBTONES 10/Jul/2009		XXIE 10/Jul/2009	HR-123	I14		
L12912-6	4390	DX1613 (DB 5)	S	I	REINJECT	LMI	ROBTONES 10/Jul/2009		XXIE 10/Jul/2009	HR-123	I15		
WG29271-101	BLANK	DX1613 (DB 5)	S	I2	REINJECT	LMI	ROBTONES 10/Jul/2009		XXIE 10/Jul/2009	HR-123	I19		

Reviewed by/Date *BRP 27-Jul-09*



Moisture/Solids Data

Work Group: WG29271
ANALYST: letherington

To begin: Get Samples
enter the data screen by screen.
To finish: Save Samples.

Sample #	Extraction Date	Sample Size	Units g or L	colours indicate:			less than tare			limits failed		less than dry		Duplicate Test	Reference Material
				Tare 1	Wet + Tare1	Dry + Tare1	Tare 2	Wet + Tare 2	Dry + Tare 2	Dry Weight	% Moisture	% Solids			
L12912-1	03-JUL-09	14.02	g	1.03	3.1	2.51	1.01	3.31	2.61	9.88850284	29.468596	70.5314026	2.73973083		
L12912-2	03-JUL-09	20.51	g	1.04	2.93	1.99	0.99	3.23	2.09	10.1905674	50.314152	49.6858482	2.32944798		
L12912-3	03-JUL-09	20.06	g	0.99	2.8	1.89	0.99	3.56	2.31	10.1388884	49.457188	50.5428123	3.24104333		
L12912-4	03-JUL-09	20	g	1.02	3.95	2.55	1	3.32	2.18	10.3080487	48.459755	51.5402451	2.63164711		
L12912-5	03-JUL-09	18.04	g	0.99	3.66	2.51	1	4.11	2.78	10.2975536	42.918217	57.0817833	0.53588206		
L12912-6	03-JUL-09	24.06	g	1	3.7	2.18	1	3.3	1.96	10.2787723	57.278587	42.7214127	4.5985651		
L12912-7	03-JUL-09	24.02	g	1.03	5.4	2.85	1.02	5	2.69	10.0412487	58.196301	41.8036995	0.74682432		
L12912-8	03-JUL-09	20.56	g	0.99	3.84	2.39	1	4.02	2.46	10.0196265	51.266407	48.733593	1.59732461		
L12912-9	03-JUL-09	14.67	g	1.01	4.04	3.08	0.99	3.82	2.93	10.039273	31.565964	68.4340363	0.34253883		
WG29271-101 BLANK	03-JUL-09	10	g	1	2.15	2.14	0.98	2.02	2.02	9.95652199	0.4347801	99.5652161	0.87336344		
WG29271-102 SPM	03-JUL-09	10.13	g	1	2.04	2.05	0.99	2.04	2.05	10.13	0	100	0.0090803		
WG29271-103 DUP	03-JUL-09	14.87	g	1.02	3.54	2.71	1.02	3.47	2.71	10.1148033	31.978458	68.0215454	2.81689978		
WG29271-104 CRM	03-JUL-09	0.51	g	1	1.78	1.77	1.01	1.78	1.77	0.50341909	1.290375	98.7096252	0.01687124		



Sample Labeling Information: Batch ID: WG29271

Date: 03-Jul-09

Analyst: JE

Method: MLA-017 Rev.16

Contract# 4390

Sample ID	Sample Type and Description	Original Labeling
L12912-1	Dark grey wet, gritty solid	Composite Group 1 1 of 1
L12912-2	Dark grey, wet, smooth solid	Composite Group 2 1 of 2
L12912-3	Dark grey, wet solid	Composite Group 3 1 of 1
L12912-4	Dark grey, wet solid	Composite Group 4 1 of 1
L12912-5	Dark grey, wet, smooth solid	Composite Group 5 1 of 2
L12912-6	Dark grey, wet solid	10654007 1 of 2 03-Jul-09
L12912-7	Dark grey, watery solid	10654014 1 of 2
L12912-8	Dark grey, watery solid	10654018 1 of 2
L12912-9	Dark grey, wet, gritty solid	10654034 1 of 1
WG29271-101 (BLANK)	Blank; Pale beige, dry sand	L6796-11 10SREF Jar 7 of 17
WG29271-102 (SPM)	SPM; Pale beige, dry sand	L6796-11 10SREF Jar 7 of 17
WG29271-103 (DUP)	Duplicate of L12912-9; Dark grey wet, gritty solid	10654034 1 of 1
WG29271-104 (CRM)	CRM; Dry, grey powder	NIST 1944 SC5036



Sample Wt & Moistures: Batch ID: WG29271 Date: 03-Jul-09 Analyst: SE Balance or Syringe # 2060 Method: MLA-017 Rev.16

Sample ID	Moisture (SLA-015) (all weights in grams)						Sample Wt or Vol (SLA-085) (g or mL)	Backup (g)
	Tare (a)	Tare + Wet	Tare + dry	Tare (b)	Tare + wet	Tare + dry		
L12912-1	1.03	3.10	2.51	1.01	3.31	2.61	14.02	>100
L12912-2	1.04	2.93	1.99	0.99	3.23	2.09	20.51	>100
L12912-3	0.99	2.80	1.89	0.99	3.56	2.31	20.06	>100
L12912-4	1.02	3.95	2.55	1.00	3.32	2.18	20.00	>100
L12912-5	0.99	3.66	2.51	1.00	4.11	2.78	18.04	>100
L12912-6	1.00	3.70	2.18	1.00	3.30	1.96	24.06	>100
L12912-7	1.03	5.40	2.85	1.02	5.00	2.69	24.02	>100
L12912-8	0.99	3.84	2.39	1.00	4.02	2.46	20.56	>100
L12912-9	1.01	4.04	3.08	0.99	3.82	2.93	14.67	>100
WG29271-101 (BLANK)	1.00	2.15	2.14	0.98	2.02	2.02	10.00	/
WG29271-102 (SPM)	1.00	2.04	2.05	0.99	2.04	2.05	10.13	/
WG29271-103 (DUP)	1.02	3.54	2.71	1.02	3.47	2.71	14.87	>100
WG29271-104 (CRM)	1.00	1.78	1.77	1.01	1.78	1.77	0.51	/

Moistures into oven: Date: 03-Jul-09 Time: 10:53 Analyst: SE Out of Oven: Date: 06-Jul-09 Time: 11:00 Analyst: SE

Extraction Information: Soxhlet: Dean Stark: Base Digest: Steam Distillation:

Drying: Drying Time: 60 mins Analyst: SE

Solvent used: 80:20 Volume: 300 mL

Begin: Date: 03-Jul-09 Time: 13:15 Analyst: SE End: Date: 04-Jul-09 Time: 09:30 Analyst: SE

Reviewed by JL date 7-Jul-09

Spiking Sheet: Batch ID: WG29271

Method: MLA-017 Rev.16

SLA-017

Witness name/ initials: NF

Sample ID	Before extraction		Before extraction		Cleanup Std.		Cleanup Std.		Recovery		Recovery	
	Time	Witness	Time	Witness	Analyst:	Analyst:	Analyst:	Analyst:	Analyst:	Analyst:	Analyst:	Analyst:
L12912-1	10:00	NF			JL				JL			
L12912-2	10:01	NF										
L12912-3	10:01	NF										
L12912-4	10:01	NF										
L12912-5	10:02	NF										
L12912-6	10:02	NF										
L12912-7	10:02	NF										
L12912-8	10:02	NF										
L12912-9	10:03	NF										
WG29271-101 (BLANK)	10:03	NF										
WG29271-102 (SPM)	10:03	NF										
WG29271-103 (DUP)	10:04	NF										
WG29271-104 (CRM)	10:04	NF										

Sample ID	Authentic Std:		Authentic Std:		Authentic Std:	
	Time	Witness	Time	Witness	Time	Witness
WG29271-102SPM	7 Jul 09 9:56	NF				



FMS Cleanup: Batch#: WG29271

Method: MLA-017 Rev.16

Sample ID	Valve Module #	Valve Drive Module#	J	Sm	Fl	Al	C	FMS Program(s): <u>DX - Jumbo-02</u>
			Si	A/B				
			lot#	Si	lot#	lot#	lot#	
L12912-1	11	11	042	032	-	042	026	Run #: <u>1</u> Date: <u>07 JUL 09</u> Analyst: <u>ES</u> Ben: <u>_____</u> Jerry: <u>_____</u> Control: <u>✓</u> Module #: <u>A1 A2</u> Power: <u>_____</u> Supply #: <u>D1</u>
WG29271-101 BLK	5A	12			-			Manual Alumina: <input type="checkbox"/> PCB <input type="checkbox"/> BDPE <input type="checkbox"/> PCB/BDPE Batch #: _____ Analyst: _____ Date: _____ Solvent type (and batch # for F3 or other mixed solvents): F1: _____ F2: _____ F3: _____ Volume: F1: _____ mL F2: _____ mL F3: _____ mL
L12912-2	7	13			-			
L12912-3	18	14			-			
L12912-4	17	15			-			
L12912-5	6A	16	↓	↓	-	↓	↓	
L12912-6	11	11	042	032	-	042	026	
WG29271-102 3PM	5A	12			-			Run #: <u>2</u> Date: <u>07 JUL 09</u> Analyst: <u>ES</u> Ben: <u>_____</u> Jerry: <u>✓</u> Control: <u>_____</u> Module #: <u>A2</u> Power: <u>_____</u> Supply #: <u>D1</u>
L12912-7	7	13			-			
L12912-8	18	14			-			
L12912-9	17	15			-			
WG29271-103 DUP	6A	16	↓	↓	-	↓	↓	
								Run #: <u>3</u> Date: <u>07 JUL 09</u> Analyst: <u>PA</u> Ben: <u>_____</u> Jerry: <u>✓</u> Control: <u>_____</u> Module #: <u>A2</u> Power: <u>_____</u> Supply #: <u>D1</u>
WG29271-104 CRM	18	14	042	032	-	042	026	Run #: _____ Date: _____ Analyst: _____ Ben: _____ Jerry: _____ Control: _____ Module #: _____ Power: _____ Supply #: _____

Reviewed by: JL date: 7 Jul 09

AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 1
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-1 i
Matrix:	SOLID	Sample Size:	9.89 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 12:07:12	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 5
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg/g (dry weight basis)	% Moisture:	29.5

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD		0.275	0.160	0.73	1.001
1,2,3,7,8-PECDD ³		1.17	0.261	0.58	1.001
1,2,3,4,7,8-HXCDD		1.71	0.146	1.14	1.000
1,2,3,6,7,8-HXCDD		9.44	0.146	1.18	1.001
1,2,3,7,8,9-HXCDD		4.61	0.146	1.17	1.000
1,2,3,4,6,7,8-HPCDD		180	0.210	1.01	1.000
OCDD		1300	0.129	0.88	1.000
2,3,7,8-TCDF		0.943	0.143	0.82	1.001
1,2,3,7,8-PECDF	U		0.187		
2,3,4,7,8-PECDF		0.737	0.187	1.60	1.001
1,2,3,4,7,8-HXCDF		2.58	0.165	1.38	1.000
1,2,3,6,7,8-HXCDF		1.15	0.165	1.09	1.001
1,2,3,7,8,9-HXCDF	U		0.165		
2,3,4,6,7,8-HXCDF		1.44	0.165	1.06	1.001
1,2,3,4,6,7,8-HPCDF		63.9	0.192	1.02	1.000
1,2,3,4,7,8,9-HPCDF		3.62	0.192	1.07	1.000
OCDF		252	0.207	0.85	1.002
TOTAL TETRA-DIOXINS		5.04	0.160		
TOTAL PENTA-DIOXINS		13.3	0.261		
TOTAL HEXA-DIOXINS		77.8	0.146		
TOTAL HEPTA-DIOXINS		358	0.210		
TOTAL TETRA-FURANS		5.09	0.143		
TOTAL PENTA-FURANS		11.5	0.187		
TOTAL HEXA-FURANS		59.2	0.165		
TOTAL HEPTA-FURANS		214	0.192		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
 (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
 (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26;
 Report Filename: 1613_DIOXINS_1613DB5_L12912-1_Form1A_DX9M_083S5_SJ1029819.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 1
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-1 i
Matrix:	SOLID	Sample Size:	9.89 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 12:07:12	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 5
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg absolute	% Moisture:	29.5

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1670	83.4	0.78	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1910	95.7	0.62	1.382
13C-1,2,3,4,7,8-HXCDD		2000	1640	81.9	1.23	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1680	84.1	1.23	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1590	79.4	1.05	1.094
13C-OCDD		4000	2530	63.3	0.85	1.177
13C-2,3,7,8-TCDF		2000	1720	86.0	0.75	0.966
13C-1,2,3,7,8-PECDF		2000	1780	88.9	1.57	1.284
13C-2,3,4,7,8-PECDF		2000	1760	88.0	1.51	1.351
13C-1,2,3,4,7,8-HXCDF		2000	1690	84.6	0.50	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1720	86.0	0.50	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1580	78.8	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1610	80.3	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1650	82.4	0.42	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1560	78.0	0.44	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	191	95.5		1.014
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 1
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-1
Matrix:	SOLID	Sample Size:	9.89 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 22:44:45	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_148 S: 6
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_148 S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	29.5

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF	K	0.531	0.0506	0.97	1.001

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB225_L12912-1_Form1A_DB93_148S6_SJ1030750.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 1

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection: N/A

Contract No.: 4390

Matrix: SOLID

Lab Sample I.D.: L12912-1 i

Sample Size: 9.89 g (dry)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames: DB93_148 S: 6
DX9M_083 S: 5

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.275	0.160	1	2.75e-01	2.75e-01	
1,2,3,7,8-PECDD		1.17	0.261	1	1.17e+00	1.17e+00	
1,2,3,4,7,8-HXCDD		1.71	0.146	0.1	1.71e-01	1.71e-01	
1,2,3,6,7,8-HXCDD		9.44	0.146	0.1	9.44e-01	9.44e-01	
1,2,3,7,8,9-HXCDD		4.61	0.146	0.1	4.61e-01	4.61e-01	
1,2,3,4,6,7,8-HPCDD		180	0.210	0.01	1.80e+00	1.80e+00	
OCDD		1300	0.129	0.0003	3.90e-01	3.90e-01	
2,3,7,8-TCDF	U		0.0506	0.1	0.00e+00	2.53e-03	
1,2,3,7,8-PECDF	U		0.187	0.03	0.00e+00	2.81e-03	
2,3,4,7,8-PECDF		0.737	0.187	0.3	2.21e-01	2.21e-01	
1,2,3,4,7,8-HXCDF		2.58	0.165	0.1	2.58e-01	2.58e-01	
1,2,3,6,7,8-HXCDF		1.15	0.165	0.1	1.15e-01	1.15e-01	
1,2,3,7,8,9-HXCDF	U		0.165	0.1	0.00e+00	8.25e-03	
2,3,4,6,7,8-HXCDF		1.44	0.165	0.1	1.44e-01	1.44e-01	
1,2,3,4,6,7,8-HPCDF		63.9	0.192	0.01	6.39e-01	6.39e-01	
1,2,3,4,7,8,9-HPCDF		3.62	0.192	0.01	3.62e-02	3.62e-02	
OCDF		252	0.207	0.0003	7.56e-02	7.56e-02	
TOTAL TEQ					6.70	6.71	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.275	0.160	1	2.75e-01	2.75e-01	
1,2,3,7,8-PECDD		1.17	0.261	1	1.17e+00	1.17e+00	
1,2,3,4,7,8-HXCDD		1.71	0.146	0.1	1.71e-01	1.71e-01	
1,2,3,6,7,8-HXCDD		9.44	0.146	0.1	9.44e-01	9.44e-01	
1,2,3,7,8,9-HXCDD		4.61	0.146	0.1	4.61e-01	4.61e-01	
1,2,3,4,6,7,8-HPCDD		180	0.210	0.01	1.80e+00	1.80e+00	
OCDD		1300	0.129	0.0001	1.30e-01	1.30e-01	
2,3,7,8-TCDF	U		0.0506	0.1	0.00e+00	2.53e-03	
1,2,3,7,8-PECDF	U		0.187	0.05	0.00e+00	4.68e-03	
2,3,4,7,8-PECDF		0.737	0.187	0.5	3.69e-01	3.69e-01	
1,2,3,4,7,8-HXCDF		2.58	0.165	0.1	2.58e-01	2.58e-01	
1,2,3,6,7,8-HXCDF		1.15	0.165	0.1	1.15e-01	1.15e-01	
1,2,3,7,8,9-HXCDF	U		0.165	0.1	0.00e+00	8.25e-03	
2,3,4,6,7,8-HXCDF		1.44	0.165	0.1	1.44e-01	1.44e-01	
1,2,3,4,6,7,8-HPCDF		63.9	0.192	0.01	6.39e-01	6.39e-01	
1,2,3,4,7,8,9-HPCDF		3.62	0.192	0.01	3.62e-02	3.62e-02	
OCDF		252	0.207	0.0001	2.52e-02	2.52e-02	
TOTAL TEQ					6.54	6.55	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
 (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 2
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-2
Matrix:	SOLID	Sample Size:	10.2 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	09-Jul-2009 Time: 22:00:14	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_082E S: 29
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_082E S: 23
Concentration Units:	pg/g (dry weight basis)	% Moisture:	50.3

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD		0.475	0.0491	0.75	1.001
1,2,3,7,8-PECDD ³		1.88	0.0616	0.70	1.000
1,2,3,4,7,8-HXCDD		2.73	0.0836	1.16	1.000
1,2,3,6,7,8-HXCDD		14.8	0.0836	1.21	1.000
1,2,3,7,8,9-HXCDD		8.00	0.0836	1.20	1.000
1,2,3,4,6,7,8-HPCDD		280	0.199	1.00	1.000
OCDD		2260	0.0531	0.88	1.000
2,3,7,8-TCDF		2.97	0.132	0.76	1.001
1,2,3,7,8-PECDF		0.729	0.0715	1.41	1.001
2,3,4,7,8-PECDF		1.31	0.0715	1.49	1.001
1,2,3,4,7,8-HXCDF		3.94	0.0498	1.07	1.001
1,2,3,6,7,8-HXCDF		1.89	0.0498	1.21	1.000
1,2,3,7,8,9-HXCDF	U		0.0498		
2,3,4,6,7,8-HXCDF		2.11	0.0498	1.23	1.000
1,2,3,4,6,7,8-HPCDF		99.8	0.154	1.00	1.000
1,2,3,4,7,8,9-HPCDF		5.32	0.154	0.98	1.000
OCDF		475	0.0491	0.87	1.002
TOTAL TETRA-DIOXINS		18.6	0.0491		
TOTAL PENTA-DIOXINS		24.4	0.0616		
TOTAL HEXA-DIOXINS		125	0.0836		
TOTAL HEPTA-DIOXINS		605	0.199		
TOTAL TETRA-FURANS		20.6	0.132		
TOTAL PENTA-FURANS		25.4	0.0715		
TOTAL HEXA-FURANS		85.3	0.0498		
TOTAL HEPTA-FURANS		335	0.154		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
 (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
 (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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 Report Filename: 1613_DIOXINS_1613DB5_L12912-2_Form1A_DX9M_082ES29_SJ1029809.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 2
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-2
Matrix:	SOLID	Sample Size:	10.2 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	09-Jul-2009 Time: 22:00:14	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_082E S: 29
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_082E S: 23
Concentration Units:	pg absolute	% Moisture:	50.3

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1580	79.2	0.77	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1710	85.7	0.62	1.383
13C-1,2,3,4,7,8-HXCDD		2000	1430	71.7	1.27	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1440	71.9	1.23	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1350	67.5	1.02	1.094
13C-OCDD		4000	2080	52.1	0.89	1.177
13C-2,3,7,8-TCDF		2000	1580	79.0	0.78	0.966
13C-1,2,3,7,8-PECDF		2000	1610	80.3	1.52	1.284
13C-2,3,4,7,8-PECDF		2000	1570	78.5	1.54	1.351
13C-1,2,3,4,7,8-HXCDF		2000	1450	72.7	0.50	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1450	72.6	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1370	68.5	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1410	70.5	0.50	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1300	64.9	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1310	65.7	0.43	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	191	95.5		1.014
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_L12912-2_Form2_DX9M_082ES29_SJ1029809.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 2
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-2
Matrix:	SOLID	Sample Size:	10.2 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 23:20:25	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_148 S: 7
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_148 S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	50.3

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF	K	1.23	0.0985	0.91	1.002

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB225_L12912-2_Form1A_DB93_148S7_SJ1030751.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 2

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection: N/A

Contract No.: 4390

Matrix: SOLID

Lab Sample I.D.: L12912-2

Sample Size: 10.2 g (dry)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames: DB93_148 S: 7
DX9M_082E S: 29

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.475	0.0491	1	4.75e-01	4.75e-01	
1,2,3,7,8-PECDD		1.88	0.0616	1	1.88e+00	1.88e+00	
1,2,3,4,7,8-HXCDD		2.73	0.0836	0.1	2.73e-01	2.73e-01	
1,2,3,6,7,8-HXCDD		14.8	0.0836	0.1	1.48e+00	1.48e+00	
1,2,3,7,8,9-HXCDD		8.00	0.0836	0.1	8.00e-01	8.00e-01	
1,2,3,4,6,7,8-HPCDD		280	0.199	0.01	2.80e+00	2.80e+00	
OCDD		2260	0.0531	0.0003	6.78e-01	6.78e-01	
2,3,7,8-TCDF	U		0.0985	0.1	0.00e+00	4.93e-03	
1,2,3,7,8-PECDF		0.729	0.0715	0.03	2.19e-02	2.19e-02	
2,3,4,7,8-PECDF		1.31	0.0715	0.3	3.93e-01	3.93e-01	
1,2,3,4,7,8-HXCDF		3.94	0.0498	0.1	3.94e-01	3.94e-01	
1,2,3,6,7,8-HXCDF		1.89	0.0498	0.1	1.89e-01	1.89e-01	
1,2,3,7,8,9-HXCDF	U		0.0498	0.1	0.00e+00	2.49e-03	
2,3,4,6,7,8-HXCDF		2.11	0.0498	0.1	2.11e-01	2.11e-01	
1,2,3,4,6,7,8-HPCDF		99.8	0.154	0.01	9.98e-01	9.98e-01	
1,2,3,4,7,8,9-HPCDF		5.32	0.154	0.01	5.32e-02	5.32e-02	
OCDF		475	0.0491	0.0003	1.43e-01	1.43e-01	
TOTAL TEQ					10.8	10.8	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.475	0.0491	1	4.75e-01	4.75e-01	
1,2,3,7,8-PECDD		1.88	0.0616	1	1.88e+00	1.88e+00	
1,2,3,4,7,8-HXCDD		2.73	0.0836	0.1	2.73e-01	2.73e-01	
1,2,3,6,7,8-HXCDD		14.8	0.0836	0.1	1.48e+00	1.48e+00	
1,2,3,7,8,9-HXCDD		8.00	0.0836	0.1	8.00e-01	8.00e-01	
1,2,3,4,6,7,8-HPCDD		280	0.199	0.01	2.80e+00	2.80e+00	
OCDD		2260	0.0531	0.0001	2.26e-01	2.26e-01	
2,3,7,8-TCDF	U		0.0985	0.1	0.00e+00	4.93e-03	
1,2,3,7,8-PECDF		0.729	0.0715	0.05	3.65e-02	3.65e-02	
2,3,4,7,8-PECDF		1.31	0.0715	0.5	6.55e-01	6.55e-01	
1,2,3,4,7,8-HXCDF		3.94	0.0498	0.1	3.94e-01	3.94e-01	
1,2,3,6,7,8-HXCDF		1.89	0.0498	0.1	1.89e-01	1.89e-01	
1,2,3,7,8,9-HXCDF	U		0.0498	0.1	0.00e+00	2.49e-03	
2,3,4,6,7,8-HXCDF		2.11	0.0498	0.1	2.11e-01	2.11e-01	
1,2,3,4,6,7,8-HPCDF		99.8	0.154	0.01	9.98e-01	9.98e-01	
1,2,3,4,7,8,9-HPCDF		5.32	0.154	0.01	5.32e-02	5.32e-02	
OCDF		475	0.0491	0.0001	4.75e-02	4.75e-02	
TOTAL TEQ					10.5	10.5	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 3
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-3 i
Matrix:	SOLID	Sample Size:	10.1 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 13:02:08	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 6
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg/g (dry weight basis)	% Moisture:	49.5

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD	U		0.158		
1,2,3,7,8-PECDD ³		1.15	0.204	0.54	1.000
1,2,3,4,7,8-HXCDD		1.62	0.143	1.14	1.000
1,2,3,6,7,8-HXCDD		7.29	0.143	1.25	1.001
1,2,3,7,8,9-HXCDD		4.61	0.143	1.20	1.000
1,2,3,4,6,7,8-HPCDD		185	0.191	1.02	1.000
OCDD		1410	0.131	0.88	1.000
2,3,7,8-TCDF		2.34	0.154	0.73	1.001
1,2,3,7,8-PECDF		0.368	0.176	1.33	1.002
2,3,4,7,8-PECDF		0.740	0.176	1.53	1.001
1,2,3,4,7,8-HXCDF		2.00	0.111	1.08	1.000
1,2,3,6,7,8-HXCDF		0.894	0.111	1.17	1.001
1,2,3,7,8,9-HXCDF	U		0.111		
2,3,4,6,7,8-HXCDF		1.18	0.111	1.37	1.001
1,2,3,4,6,7,8-HPCDF		37.5	0.150	0.97	1.000
1,2,3,4,7,8,9-HPCDF		2.18	0.150	1.07	1.001
OCDF		132	0.229	0.87	1.002
TOTAL TETRA-DIOXINS		10.4	0.158		
TOTAL PENTA-DIOXINS		9.53	0.204		
TOTAL HEXA-DIOXINS		65.2	0.143		
TOTAL HEPTA-DIOXINS		428	0.191		
TOTAL TETRA-FURANS		14.0	0.154		
TOTAL PENTA-FURANS		13.1	0.176		
TOTAL HEXA-FURANS		37.1	0.111		
TOTAL HEPTA-FURANS		124	0.150		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
 (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
 (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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 Report Filename: 1613_DIOXINS_1613DB5_L12912-3_Form1A_DX9M_083S6_SJ1029820.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 3
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-3 i
Matrix:	SOLID	Sample Size:	10.1 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 13:02:08	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 6
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg absolute	% Moisture:	49.5

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1390	69.7	0.79	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1600	80.0	0.62	1.382
13C-1,2,3,4,7,8-HXCDD		2000	1300	64.9	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1330	66.7	1.22	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1280	64.1	1.01	1.094
13C-OCDD		4000	2050	51.4	0.89	1.177
13C-2,3,7,8-TCDF		2000	1390	69.7	0.75	0.966
13C-1,2,3,7,8-PECDF		2000	1420	71.2	1.54	1.284
13C-2,3,4,7,8-PECDF		2000	1380	68.8	1.53	1.351
13C-1,2,3,4,7,8-HXCDF		2000	1310	65.3	0.51	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1330	66.7	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1320	65.8	0.51	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1280	63.8	0.50	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1280	64.0	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1290	64.3	0.44	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	193	96.3		1.013
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_L12912-3_Form2_DX9M_083S6_SJ1029820.html; Workgroup: WG29271; Design ID: 397]

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AXYS METHOD MLA-017 Rev 16

**Form 1A
PCDD/PCDF ANALYSIS REPORT**

**CLIENT SAMPLE NO.
COMPOSITE GROUP 3
Sample Collection:
N/A**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-3
Matrix:	SOLID	Sample Size:	10.1 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 23:56:00	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_148 S: 8
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_148 S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	49.5

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF		1.31	0.0507	0.79	1.001

(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L12912-3_Form1A_DB93_148S8_SJ1030752.html; Workgroup: WG29271; Design ID: 397]

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AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 3

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4390

Sample Collection: N/A

Matrix: SOLID

Lab Sample I.D.: L12912-3 i

Sample Size: 10.1 g (dry)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames: DB93_148 S: 8
DX9M_083 S: 6

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.158	1	0.00e+00	7.90e-02	
1,2,3,7,8-PECDD		1.15	0.204	1	1.15e+00	1.15e+00	
1,2,3,4,7,8-HXCDD		1.62	0.143	0.1	1.62e-01	1.62e-01	
1,2,3,6,7,8-HXCDD		7.29	0.143	0.1	7.29e-01	7.29e-01	
1,2,3,7,8,9-HXCDD		4.61	0.143	0.1	4.61e-01	4.61e-01	
1,2,3,4,6,7,8-HPCDD		185	0.191	0.01	1.85e+00	1.85e+00	
OCDD		1410	0.131	0.0003	4.23e-01	4.23e-01	
2,3,7,8-TCDF		1.31	0.0507	0.1	1.31e-01	1.31e-01	
1,2,3,7,8-PECDF		0.368	0.176	0.03	1.10e-02	1.10e-02	
2,3,4,7,8-PECDF		0.740	0.176	0.3	2.22e-01	2.22e-01	
1,2,3,4,7,8-HXCDF		2.00	0.111	0.1	2.00e-01	2.00e-01	
1,2,3,6,7,8-HXCDF		0.894	0.111	0.1	8.94e-02	8.94e-02	
1,2,3,7,8,9-HXCDF	U		0.111	0.1	0.00e+00	5.55e-03	
2,3,4,6,7,8-HXCDF		1.18	0.111	0.1	1.18e-01	1.18e-01	
1,2,3,4,6,7,8-HPCDF		37.5	0.150	0.01	3.75e-01	3.75e-01	
1,2,3,4,7,8,9-HPCDF		2.18	0.150	0.01	2.18e-02	2.18e-02	
OCDF		132	0.229	0.0003	3.96e-02	3.96e-02	
TOTAL TEQ					5.98	6.07	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.158	1	0.00e+00	7.90e-02	
1,2,3,7,8-PECDD		1.15	0.204	1	1.15e+00	1.15e+00	
1,2,3,4,7,8-HXCDD		1.62	0.143	0.1	1.62e-01	1.62e-01	
1,2,3,6,7,8-HXCDD		7.29	0.143	0.1	7.29e-01	7.29e-01	
1,2,3,7,8,9-HXCDD		4.61	0.143	0.1	4.61e-01	4.61e-01	
1,2,3,4,6,7,8-HPCDD		185	0.191	0.01	1.85e+00	1.85e+00	
OCDD		1410	0.131	0.0001	1.41e-01	1.41e-01	
2,3,7,8-TCDF		1.31	0.0507	0.1	1.31e-01	1.31e-01	
1,2,3,7,8-PECDF		0.368	0.176	0.05	1.84e-02	1.84e-02	
2,3,4,7,8-PECDF		0.740	0.176	0.5	3.70e-01	3.70e-01	
1,2,3,4,7,8-HXCDF		2.00	0.111	0.1	2.00e-01	2.00e-01	
1,2,3,6,7,8-HXCDF		0.894	0.111	0.1	8.94e-02	8.94e-02	
1,2,3,7,8,9-HXCDF	U		0.111	0.1	0.00e+00	5.55e-03	
2,3,4,6,7,8-HXCDF		1.18	0.111	0.1	1.18e-01	1.18e-01	
1,2,3,4,6,7,8-HPCDF		37.5	0.150	0.01	3.75e-01	3.75e-01	
1,2,3,4,7,8,9-HPCDF		2.18	0.150	0.01	2.18e-02	2.18e-02	
OCDF		132	0.229	0.0001	1.32e-02	1.32e-02	
TOTAL TEQ					5.83	5.91	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
 (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 4
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-4 i
Matrix:	SOLID	Sample Size:	10.3 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 13:57:05	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 7
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg/g (dry weight basis)	% Moisture:	48.5

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD	K	0.253	0.137	0.46	1.002
1,2,3,7,8-PECDD ³		1.03	0.228	0.58	1.001
1,2,3,4,7,8-HXCDD	K	1.14	0.122	1.56	1.000
1,2,3,6,7,8-HXCDD		4.41	0.122	1.23	1.000
1,2,3,7,8-HXCDD		3.33	0.122	1.19	1.000
1,2,3,4,6,7,8-HPCDD		72.0	0.175	1.02	1.000
OCDD		509	0.103	0.87	1.000
2,3,7,8-TCDF		2.34	0.109	0.79	1.001
1,2,3,7,8-PECDF		0.303	0.148	1.52	1.001
2,3,4,7,8-PECDF	K	0.596	0.148	1.31	1.001
1,2,3,4,7,8-HXCDF		1.04	0.132	1.19	1.000
1,2,3,6,7,8-HXCDF		0.719	0.132	1.29	1.001
1,2,3,7,8,9-HXCDF	U		0.132		
2,3,4,6,7,8-HXCDF	K	0.776	0.132	0.98	1.000
1,2,3,4,6,7,8-HPCDF		23.4	0.121	1.01	1.000
1,2,3,4,7,8,9-HPCDF		1.20	0.121	1.06	1.001
OCDF		66.8	0.194	0.86	1.002
TOTAL TETRA-DIOXINS		10.9	0.137		
TOTAL PENTA-DIOXINS		10.2	0.228		
TOTAL HEXA-DIOXINS		39.3	0.122		
TOTAL HEPTA-DIOXINS		174	0.175		
TOTAL TETRA-FURANS		15.0	0.109		
TOTAL PENTA-FURANS		9.19	0.148		
TOTAL HEXA-FURANS		21.4	0.132		
TOTAL HEPTA-FURANS		64.9	0.121		

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.
- (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
- (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 4
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-4 i
Matrix:	SOLID	Sample Size:	10.3 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 13:57:05	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 7
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg absolute	% Moisture:	48.5

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1600	79.9	0.75	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1820	91.1	0.61	1.382
13C-1,2,3,4,7,8-HXCDD		2000	1530	76.7	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1600	79.8	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1580	78.9	1.03	1.094
13C-OCDD		4000	2500	62.6	0.90	1.177
13C-2,3,7,8-TCDF		2000	1580	79.1	0.76	0.966
13C-1,2,3,7,8-PECDF		2000	1710	85.3	1.56	1.284
13C-2,3,4,7,8-PECDF		2000	1580	79.1	1.57	1.351
13C-1,2,3,4,7,8-HXCDF		2000	1510	75.6	0.51	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1610	80.6	0.50	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1500	74.8	0.51	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1480	74.0	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1520	76.2	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1550	77.5	0.43	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	193	96.3		1.014
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 4
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-4
Matrix:	SOLID	Sample Size:	10.3 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	11-Jul-2009 Time: 00:31:39	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_148 S: 9
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_148 S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	48.5

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF	K	1.47	0.0485	0.91	1.001

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB225_L12912-4_Form1A_DB93_148S9_SJ1030753.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 4

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4390

Sample Collection: N/A

Matrix: SOLID

Lab Sample I.D.: L12912-4 i

Sample Size: 10.3 g (dry)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames: DB93_148 S: 9
DX9M_083 S: 7

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.137	1	0.00e+00	6.85e-02	
1,2,3,7,8-PECDD		1.03	0.228	1	1.03e+00	1.03e+00	
1,2,3,4,7,8-HXCDD	U		0.122	0.1	0.00e+00	6.10e-03	
1,2,3,6,7,8-HXCDD		4.41	0.122	0.1	4.41e-01	4.41e-01	
1,2,3,7,8,9-HXCDD		3.33	0.122	0.1	3.33e-01	3.33e-01	
1,2,3,4,6,7,8-HPCDD		72.0	0.175	0.01	7.20e-01	7.20e-01	
OCDD		509	0.103	0.0003	1.53e-01	1.53e-01	
2,3,7,8-TCDF	U		0.0485	0.1	0.00e+00	2.43e-03	
1,2,3,7,8-PECDF		0.303	0.148	0.03	9.09e-03	9.09e-03	
2,3,4,7,8-PECDF	U		0.148	0.3	0.00e+00	2.22e-02	
1,2,3,4,7,8-HXCDF		1.04	0.132	0.1	1.04e-01	1.04e-01	
1,2,3,6,7,8-HXCDF		0.719	0.132	0.1	7.19e-02	7.19e-02	
1,2,3,7,8,9-HXCDF	U		0.132	0.1	0.00e+00	6.60e-03	
2,3,4,6,7,8-HXCDF	U		0.132	0.1	0.00e+00	6.60e-03	
1,2,3,4,6,7,8-HPCDF		23.4	0.121	0.01	2.34e-01	2.34e-01	
1,2,3,4,7,8,9-HPCDF		1.20	0.121	0.01	1.20e-02	1.20e-02	
OCDF		66.8	0.194	0.0003	2.00e-02	2.00e-02	
TOTAL TEQ					3.13	3.24	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.137	1	0.00e+00	6.85e-02	
1,2,3,7,8-PECDD		1.03	0.228	1	1.03e+00	1.03e+00	
1,2,3,4,7,8-HXCDD	U		0.122	0.1	0.00e+00	6.10e-03	
1,2,3,6,7,8-HXCDD		4.41	0.122	0.1	4.41e-01	4.41e-01	
1,2,3,7,8,9-HXCDD		3.33	0.122	0.1	3.33e-01	3.33e-01	
1,2,3,4,6,7,8-HPCDD		72.0	0.175	0.01	7.20e-01	7.20e-01	
OCDD		509	0.103	0.0001	5.09e-02	5.09e-02	
2,3,7,8-TCDF	U		0.0485	0.1	0.00e+00	2.43e-03	
1,2,3,7,8-PECDF		0.303	0.148	0.05	1.52e-02	1.52e-02	
2,3,4,7,8-PECDF	U		0.148	0.5	0.00e+00	3.70e-02	
1,2,3,4,7,8-HXCDF		1.04	0.132	0.1	1.04e-01	1.04e-01	
1,2,3,6,7,8-HXCDF		0.719	0.132	0.1	7.19e-02	7.19e-02	
1,2,3,7,8,9-HXCDF	U		0.132	0.1	0.00e+00	6.60e-03	
2,3,4,6,7,8-HXCDF	U		0.132	0.1	0.00e+00	6.60e-03	
1,2,3,4,6,7,8-HPCDF		23.4	0.121	0.01	2.34e-01	2.34e-01	
1,2,3,4,7,8,9-HPCDF		1.20	0.121	0.01	1.20e-02	1.20e-02	
OCDF		66.8	0.194	0.0001	6.68e-03	6.68e-03	
TOTAL TEQ					3.02	3.15	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 5
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-5 i
Matrix:	SOLID	Sample Size:	10.3 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 14:52:03	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 8
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg/g (dry weight basis)	% Moisture:	42.9

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD		0.254	0.128	0.88	0.999
1,2,3,7,8-PECDD ³		0.716	0.200	0.65	1.001
1,2,3,4,7,8-HXCDD		0.873	0.116	1.13	1.000
1,2,3,6,7,8-HXCDD		3.34	0.116	1.17	1.000
1,2,3,7,8,9-HXCDD		2.51	0.116	1.14	1.000
1,2,3,4,6,7,8-HPCDD		40.8	0.146	1.03	1.000
OCDD		271	0.108	0.87	1.000
2,3,7,8-TCDF		2.17	0.117	0.71	1.002
1,2,3,7,8-PECDF	K	0.412	0.179	1.16	1.001
2,3,4,7,8-PECDF		0.547	0.179	1.57	1.001
1,2,3,4,7,8-HXCDF		0.834	0.110	1.12	1.000
1,2,3,6,7,8-HXCDF		0.543	0.110	1.19	1.000
1,2,3,7,8,9-HXCDF	U		0.110		
2,3,4,6,7,8-HXCDF		0.531	0.110	1.28	1.000
1,2,3,4,6,7,8-HPCDF		12.7	0.119	0.98	1.000
1,2,3,4,7,8,9-HPCDF		0.769	0.119	0.93	1.000
OCDF		33.9	0.184	0.88	1.002
TOTAL TETRA-DIOXINS		12.3	0.128		
TOTAL PENTA-DIOXINS		11.3	0.200		
TOTAL HEXA-DIOXINS		44.0	0.116		
TOTAL HEPTA-DIOXINS		106	0.146		
TOTAL TETRA-FURANS		12.9	0.117		
TOTAL PENTA-FURANS		6.07	0.179		
TOTAL HEXA-FURANS		13.0	0.110		
TOTAL HEPTA-FURANS		34.2	0.119		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.
 (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
 (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 5
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-5 i
Matrix:	SOLID	Sample Size:	10.3 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 14:52:03	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 8
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg absolute	% Moisture:	42.9

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1570	78.4	0.77	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1790	89.7	0.62	1.383
13C-1,2,3,4,7,8-HXCDD		2000	1530	76.5	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1510	75.3	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1470	73.4	1.04	1.093
13C-OCDD		4000	2240	55.9	0.87	1.177
13C-2,3,7,8-TCDF		2000	1560	77.9	0.76	0.966
13C-1,2,3,7,8-PECDF		2000	1680	83.8	1.54	1.284
13C-2,3,4,7,8-PECDF		2000	1600	79.9	1.56	1.351
13C-1,2,3,4,7,8-HXCDF		2000	1510	75.4	0.50	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1540	77.2	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1430	71.3	0.51	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1460	72.8	0.50	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1430	71.5	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1420	71.1	0.43	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	193	96.7		1.015
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_L12912-5_Form2_DX9M_083S8_SJ1029822.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

**Form 1A
PCDD/PCDF ANALYSIS REPORT**

**CLIENT SAMPLE NO.
COMPOSITE GROUP 5
Sample Collection:
N/A**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-5
Matrix:	SOLID	Sample Size:	10.3 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	11-Jul-2009 Time: 01:07:18	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_148 S: 10
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_148 S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	42.9

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF		0.970	0.0537	0.80	1.001

(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26;
Report Filename: 1613_DIOXINS_1613DB225_L12912-5_Form1A_DB93_148S10_SJ1030754.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
COMPOSITE GROUP 5

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection: N/A

Contract No.: 4390

Matrix: SOLID

Lab Sample I.D.: L12912-5 i

Sample Size: 10.3 g (dry)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames: DB93_148 S: 10
DX9M_083 S: 8

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.254	0.128	1	2.54e-01	2.54e-01	
1,2,3,7,8-PECDD		0.716	0.200	1	7.16e-01	7.16e-01	
1,2,3,4,7,8-HXCDD		0.873	0.116	0.1	8.73e-02	8.73e-02	
1,2,3,6,7,8-HXCDD		3.34	0.116	0.1	3.34e-01	3.34e-01	
1,2,3,7,8,9-HXCDD		2.51	0.116	0.1	2.51e-01	2.51e-01	
1,2,3,4,6,7,8-HPCDD		40.8	0.146	0.01	4.08e-01	4.08e-01	
OCDD		271	0.108	0.0003	8.13e-02	8.13e-02	
2,3,7,8-TCDF		0.970	0.0537	0.1	9.70e-02	9.70e-02	
1,2,3,7,8-PECDF	U		0.179	0.03	0.00e+00	2.69e-03	
2,3,4,7,8-PECDF		0.547	0.179	0.3	1.64e-01	1.64e-01	
1,2,3,4,7,8-HXCDF		0.834	0.110	0.1	8.34e-02	8.34e-02	
1,2,3,6,7,8-HXCDF		0.543	0.110	0.1	5.43e-02	5.43e-02	
1,2,3,7,8,9-HXCDF	U		0.110	0.1	0.00e+00	5.50e-03	
2,3,4,6,7,8-HXCDF		0.531	0.110	0.1	5.31e-02	5.31e-02	
1,2,3,4,6,7,8-HPCDF		12.7	0.119	0.01	1.27e-01	1.27e-01	
1,2,3,4,7,8,9-HPCDF		0.769	0.119	0.01	7.69e-03	7.69e-03	
OCDF		33.9	0.184	0.0003	1.02e-02	1.02e-02	
TOTAL TEQ					2.73	2.74	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.254	0.128	1	2.54e-01	2.54e-01	
1,2,3,7,8-PECDD		0.716	0.200	1	7.16e-01	7.16e-01	
1,2,3,4,7,8-HXCDD		0.873	0.116	0.1	8.73e-02	8.73e-02	
1,2,3,6,7,8-HXCDD		3.34	0.116	0.1	3.34e-01	3.34e-01	
1,2,3,7,8,9-HXCDD		2.51	0.116	0.1	2.51e-01	2.51e-01	
1,2,3,4,6,7,8-HPCDD		40.8	0.146	0.01	4.08e-01	4.08e-01	
OCDD		271	0.108	0.0001	2.71e-02	2.71e-02	
2,3,7,8-TCDF		0.970	0.0537	0.1	9.70e-02	9.70e-02	
1,2,3,7,8-PECDF	U		0.179	0.05	0.00e+00	4.48e-03	
2,3,4,7,8-PECDF		0.547	0.179	0.5	2.74e-01	2.74e-01	
1,2,3,4,7,8-HXCDF		0.834	0.110	0.1	8.34e-02	8.34e-02	
1,2,3,6,7,8-HXCDF		0.543	0.110	0.1	5.43e-02	5.43e-02	
1,2,3,7,8,9-HXCDF	U		0.110	0.1	0.00e+00	5.50e-03	
2,3,4,6,7,8-HXCDF		0.531	0.110	0.1	5.31e-02	5.31e-02	
1,2,3,4,6,7,8-HPCDF		12.7	0.119	0.01	1.27e-01	1.27e-01	
1,2,3,4,7,8,9-HPCDF		0.769	0.119	0.01	7.69e-03	7.69e-03	
OCDF		33.9	0.184	0.0001	3.39e-03	3.39e-03	
TOTAL TEQ					2.78	2.79	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654007
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-6 i
Matrix:	SOLID	Sample Size:	10.3 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 15:46:59	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 9
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg/g (dry weight basis)	% Moisture:	57.3

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD	K	0.875	0.188	0.57	1.001
1,2,3,7,8-PECDD ³		2.82	0.256	0.58	1.001
1,2,3,4,7,8-HXCDD		3.81	0.176	1.22	1.000
1,2,3,6,7,8-HXCDD		15.0	0.176	1.17	1.000
1,2,3,7,8,9-HXCDD		10.2	0.176	1.32	1.000
1,2,3,4,6,7,8-HPCDD		291	0.246	1.01	1.000
OCDD		2270	0.182	0.88	1.000
2,3,7,8-TCDF		8.46	0.179	0.75	1.002
1,2,3,7,8-PECDF		1.24	0.196	1.51	1.001
2,3,4,7,8-PECDF	K	1.87	0.196	1.21	1.001
1,2,3,4,7,8-HXCDF		3.65	0.202	1.29	1.001
1,2,3,6,7,8-HXCDF		2.21	0.202	1.24	1.000
1,2,3,7,8,9-HXCDF	K	0.222	0.202	0.96	1.001
2,3,4,6,7,8-HXCDF		2.55	0.202	1.41	1.000
1,2,3,4,6,7,8-HPCDF		85.2	0.245	1.01	1.000
1,2,3,4,7,8,9-HPCDF		4.82	0.245	1.07	1.000
OCDF		307	0.276	0.87	1.002
TOTAL TETRA-DIOXINS		62.0	0.188		
TOTAL PENTA-DIOXINS		46.3	0.256		
TOTAL HEXA-DIOXINS		153	0.176		
TOTAL HEPTA-DIOXINS		697	0.246		
TOTAL TETRA-FURANS		61.1	0.179		
TOTAL PENTA-FURANS		32.4	0.196		
TOTAL HEXA-FURANS		84.0	0.202		
TOTAL HEPTA-FURANS		276	0.245		

- (1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.
- (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
- (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_L12912-6_Form1A_DX9M_083S9_SJ1029823.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654007
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-6 i
Matrix:	SOLID	Sample Size:	10.3 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 15:46:59	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 9
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg absolute	% Moisture:	57.3

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1160	57.8	0.78	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1270	63.5	0.62	1.382
13C-1,2,3,4,7,8-HXCDD		2000	1110	55.5	1.27	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1140	56.8	1.19	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1030	51.3	1.03	1.093
13C-OCDD		4000	1580	39.5	0.87	1.177
13C-2,3,7,8-TCDF		2000	1180	58.9	0.76	0.966
13C-1,2,3,7,8-PECDF		2000	1170	58.6	1.56	1.284
13C-2,3,4,7,8-PECDF		2000	1170	58.3	1.55	1.351
13C-1,2,3,4,7,8-HXCDF		2000	1110	55.5	0.49	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1120	56.2	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1080	53.8	0.51	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1070	53.4	0.50	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1040	51.9	0.45	1.061
13C-1,2,3,4,7,8,9-HPCDF		2000	985	49.2	0.45	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	178	88.9		1.014
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654007
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-6
Matrix:	SOLID	Sample Size:	10.3 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	11-Jul-2009 Time: 01:42:57	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_148 S: 11
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_148 S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	57.3

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF		3.26	0.407	0.77	1.001

(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
10654007

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection: N/A

Contract No.: 4390

Matrix: SOLID

Lab Sample I.D.: L12912-6 i

Sample Size: 10.3 g (dry)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames: DB93_148 S: 11
DX9M_083 S: 9

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.188	1	0.00e+00	9.40e-02	
1,2,3,7,8-PECDD		2.82	0.256	1	2.82e+00	2.82e+00	
1,2,3,4,7,8-HXCDD		3.81	0.176	0.1	3.81e-01	3.81e-01	
1,2,3,6,7,8-HXCDD		15.0	0.176	0.1	1.50e+00	1.50e+00	
1,2,3,7,8,9-HXCDD		10.2	0.176	0.1	1.02e+00	1.02e+00	
1,2,3,4,6,7,8-HPCDD		291	0.246	0.01	2.91e+00	2.91e+00	
OCDD		2270	0.182	0.0003	6.81e-01	6.81e-01	
2,3,7,8-TCDF		3.26	0.407	0.1	3.26e-01	3.26e-01	
1,2,3,7,8-PECDF		1.24	0.196	0.03	3.72e-02	3.72e-02	
2,3,4,7,8-PECDF	U		0.196	0.3	0.00e+00	2.94e-02	
1,2,3,4,7,8-HXCDF		3.65	0.202	0.1	3.65e-01	3.65e-01	
1,2,3,6,7,8-HXCDF		2.21	0.202	0.1	2.21e-01	2.21e-01	
1,2,3,7,8,9-HXCDF	U		0.202	0.1	0.00e+00	1.01e-02	
2,3,4,6,7,8-HXCDF		2.55	0.202	0.1	2.55e-01	2.55e-01	
1,2,3,4,6,7,8-HPCDF		85.2	0.245	0.01	8.52e-01	8.52e-01	
1,2,3,4,7,8,9-HPCDF		4.82	0.245	0.01	4.82e-02	4.82e-02	
OCDF		307	0.276	0.0003	9.21e-02	9.21e-02	
TOTAL TEQ					11.5	11.6	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.188	1	0.00e+00	9.40e-02	
1,2,3,7,8-PECDD		2.82	0.256	1	2.82e+00	2.82e+00	
1,2,3,4,7,8-HXCDD		3.81	0.176	0.1	3.81e-01	3.81e-01	
1,2,3,6,7,8-HXCDD		15.0	0.176	0.1	1.50e+00	1.50e+00	
1,2,3,7,8,9-HXCDD		10.2	0.176	0.1	1.02e+00	1.02e+00	
1,2,3,4,6,7,8-HPCDD		291	0.246	0.01	2.91e+00	2.91e+00	
OCDD		2270	0.182	0.0001	2.27e-01	2.27e-01	
2,3,7,8-TCDF		3.26	0.407	0.1	3.26e-01	3.26e-01	
1,2,3,7,8-PECDF		1.24	0.196	0.05	6.20e-02	6.20e-02	
2,3,4,7,8-PECDF	U		0.196	0.5	0.00e+00	4.90e-02	
1,2,3,4,7,8-HXCDF		3.65	0.202	0.1	3.65e-01	3.65e-01	
1,2,3,6,7,8-HXCDF		2.21	0.202	0.1	2.21e-01	2.21e-01	
1,2,3,7,8,9-HXCDF	U		0.202	0.1	0.00e+00	1.01e-02	
2,3,4,6,7,8-HXCDF		2.55	0.202	0.1	2.55e-01	2.55e-01	
1,2,3,4,6,7,8-HPCDF		85.2	0.245	0.01	8.52e-01	8.52e-01	
1,2,3,4,7,8,9-HPCDF		4.82	0.245	0.01	4.82e-02	4.82e-02	
OCDF		307	0.276	0.0001	3.07e-02	3.07e-02	
TOTAL TEQ					11.0	11.2	

(1) Where applicable, custom lab flags have been used on this report.
 (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654014
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-7
Matrix:	SOLID	Sample Size:	10.0 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 16:41:56	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 10
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg/g (dry weight basis)	% Moisture:	58.2

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD	K	0.673	0.130	0.54	1.001
1,2,3,7,8-PECDD ³		3.59	0.241	0.63	1.001
1,2,3,4,7,8-HXCDD		4.88	0.191	1.23	1.000
1,2,3,6,7,8-HXCDD		28.9	0.191	1.19	1.000
1,2,3,7,8,9-HXCDD		13.2	0.191	1.17	1.000
1,2,3,4,6,7,8-HPCDD		554	0.265	1.04	1.000
OCDD		4670	0.109	0.87	1.000
2,3,7,8-TCDF		3.89	0.137	0.75	1.001
1,2,3,7,8-PECDF		0.900	0.206	1.55	1.001
2,3,4,7,8-PECDF		1.88	0.206	1.38	1.001
1,2,3,4,7,8-HXCDF		6.41	0.141	1.22	1.001
1,2,3,6,7,8-HXCDF		3.01	0.141	1.13	1.000
1,2,3,7,8,9-HXCDF	K	0.378	0.141	1.01	1.000
2,3,4,6,7,8-HXCDF		3.76	0.141	1.12	1.000
1,2,3,4,6,7,8-HPCDF		185	0.255	1.01	1.000
1,2,3,4,7,8,9-HPCDF		10.0	0.255	0.97	1.000
OCDF		802	0.137	0.86	1.002
TOTAL TETRA-DIOXINS		26.3	0.130		
TOTAL PENTA-DIOXINS		39.1	0.241		
TOTAL HEXA-DIOXINS		235	0.191		
TOTAL HEPTA-DIOXINS		1130	0.265		
TOTAL TETRA-FURANS		34.4	0.137		
TOTAL PENTA-FURANS		47.1	0.206		
TOTAL HEXA-FURANS		187	0.141		
TOTAL HEPTA-FURANS		699	0.255		

- (1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.
- (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
- (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654014
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-7
Matrix:	SOLID	Sample Size:	10.0 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 16:41:56	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 10
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg absolute	% Moisture:	58.2

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1210	60.6	0.77	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1350	67.7	0.64	1.382
13C-1,2,3,4,7,8-HXCDD		2000	1130	56.4	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1160	58.2	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1170	58.4	1.01	1.093
13C-OCDD		4000	1920	47.9	0.89	1.177
13C-2,3,7,8-TCDF		2000	1240	61.8	0.75	0.966
13C-1,2,3,7,8-PECDF		2000	1240	61.8	1.54	1.284
13C-2,3,4,7,8-PECDF		2000	1200	59.8	1.56	1.351
13C-1,2,3,4,7,8-HXCDF		2000	1150	57.4	0.50	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1150	57.4	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1140	56.9	0.50	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1070	53.6	0.49	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1110	55.6	0.44	1.061
13C-1,2,3,4,7,8,9-HPCDF		2000	1130	56.6	0.44	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	183	91.6		1.015
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654014
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-7
Matrix:	SOLID	Sample Size:	10.0 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	11-Jul-2009 Time: 02:18:35	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_148 S: 12
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_148 S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	58.2

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF		1.73	0.170	0.88	1.001

(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
10654014

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4390

Sample Collection: N/A

Matrix: SOLID

Lab Sample I.D.: L12912-7

Sample Size: 10.0 g (dry)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames: DB93_148 S: 12
DX9M_083 S: 10

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.130	1	0.00e+00	6.50e-02	
1,2,3,7,8-PECDD		3.59	0.241	1	3.59e+00	3.59e+00	
1,2,3,4,7,8-HXCDD		4.88	0.191	0.1	4.88e-01	4.88e-01	
1,2,3,6,7,8-HXCDD		28.9	0.191	0.1	2.89e+00	2.89e+00	
1,2,3,7,8,9-HXCDD		13.2	0.191	0.1	1.32e+00	1.32e+00	
1,2,3,4,6,7,8-HPCDD		554	0.265	0.01	5.54e+00	5.54e+00	
OCDD		4670	0.109	0.0003	1.40e+00	1.40e+00	
2,3,7,8-TCDF		1.73	0.170	0.1	1.73e-01	1.73e-01	
1,2,3,7,8-PECDF		0.900	0.206	0.03	2.70e-02	2.70e-02	
2,3,4,7,8-PECDF		1.88	0.206	0.3	5.64e-01	5.64e-01	
1,2,3,4,7,8-HXCDF		6.41	0.141	0.1	6.41e-01	6.41e-01	
1,2,3,6,7,8-HXCDF		3.01	0.141	0.1	3.01e-01	3.01e-01	
1,2,3,7,8,9-HXCDF	U		0.141	0.1	0.00e+00	7.05e-03	
2,3,4,6,7,8-HXCDF		3.76	0.141	0.1	3.76e-01	3.76e-01	
1,2,3,4,6,7,8-HPCDF		185	0.255	0.01	1.85e+00	1.85e+00	
1,2,3,4,7,8,9-HPCDF		10.0	0.255	0.01	1.00e-01	1.00e-01	
OCDF		802	0.137	0.0003	2.41e-01	2.41e-01	
TOTAL TEQ					19.5	19.6	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.130	1	0.00e+00	6.50e-02	
1,2,3,7,8-PECDD		3.59	0.241	1	3.59e+00	3.59e+00	
1,2,3,4,7,8-HXCDD		4.88	0.191	0.1	4.88e-01	4.88e-01	
1,2,3,6,7,8-HXCDD		28.9	0.191	0.1	2.89e+00	2.89e+00	
1,2,3,7,8,9-HXCDD		13.2	0.191	0.1	1.32e+00	1.32e+00	
1,2,3,4,6,7,8-HPCDD		554	0.265	0.01	5.54e+00	5.54e+00	
OCDD		4670	0.109	0.0001	4.67e-01	4.67e-01	
2,3,7,8-TCDF		1.73	0.170	0.1	1.73e-01	1.73e-01	
1,2,3,7,8-PECDF		0.900	0.206	0.05	4.50e-02	4.50e-02	
2,3,4,7,8-PECDF		1.88	0.206	0.5	9.40e-01	9.40e-01	
1,2,3,4,7,8-HXCDF		6.41	0.141	0.1	6.41e-01	6.41e-01	
1,2,3,6,7,8-HXCDF		3.01	0.141	0.1	3.01e-01	3.01e-01	
1,2,3,7,8,9-HXCDF	U		0.141	0.1	0.00e+00	7.05e-03	
2,3,4,6,7,8-HXCDF		3.76	0.141	0.1	3.76e-01	3.76e-01	
1,2,3,4,6,7,8-HPCDF		185	0.255	0.01	1.85e+00	1.85e+00	
1,2,3,4,7,8,9-HPCDF		10.0	0.255	0.01	1.00e-01	1.00e-01	
OCDF		802	0.137	0.0001	8.02e-02	8.02e-02	
TOTAL TEQ					18.8	18.9	

(1) Where applicable, custom lab flags have been used on this report.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654018
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-8
Matrix:	SOLID	Sample Size:	10.0 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 17:36:52	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 11
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg/g (dry weight basis)	% Moisture:	51.3

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD		0.679	0.139	0.71	1.000
1,2,3,7,8-PECDD ³		2.85	0.195	0.69	1.001
1,2,3,4,7,8-HXCDD		4.44	0.135	1.12	1.000
1,2,3,6,7,8-HXCDD		23.2	0.135	1.22	1.000
1,2,3,7,8,9-HXCDD		11.2	0.135	1.28	1.000
1,2,3,4,6,7,8-HPCDD		487	0.232	1.02	1.000
OCDD		3870	0.146	0.88	1.000
2,3,7,8-TCDF		4.30	0.155	0.72	1.002
1,2,3,7,8-PECDF		0.989	0.174	1.48	1.000
2,3,4,7,8-PECDF		2.04	0.174	1.45	1.001
1,2,3,4,7,8-HXCDF		6.46	0.118	1.24	1.001
1,2,3,6,7,8-HXCDF		2.78	0.118	1.24	1.000
1,2,3,7,8,9-HXCDF		0.319	0.118	1.28	1.000
2,3,4,6,7,8-HXCDF		3.10	0.118	1.06	1.000
1,2,3,4,6,7,8-HPCDF		159	0.241	1.00	1.000
1,2,3,4,7,8,9-HPCDF		9.49	0.241	1.02	1.000
OCDF		690	0.195	0.86	1.002
TOTAL TETRA-DIOXINS		76.9	0.139		
TOTAL PENTA-DIOXINS		74.3	0.195		
TOTAL HEXA-DIOXINS		222	0.135		
TOTAL HEPTA-DIOXINS		980	0.232		
TOTAL TETRA-FURANS		33.0	0.155		
TOTAL PENTA-FURANS		41.6	0.174		
TOTAL HEXA-FURANS		141	0.118		
TOTAL HEPTA-FURANS		580	0.241		

(1) Where applicable, custom lab flags have been used on this report.
 (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
 (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26;
 Report Filename: 1613_DIOXINS_1613DB5_L12912-8_Form1A_DX9M_083S11_SJ1029812.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654018
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-8
Matrix:	SOLID	Sample Size:	10.0 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 17:36:52	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 11
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg absolute	% Moisture:	51.3

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1410	70.5	0.78	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1580	78.8	0.64	1.382
13C-1,2,3,4,7,8-HXCDD		2000	1350	67.3	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1390	69.3	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1370	68.3	1.03	1.093
13C-OCDD		4000	2310	57.7	0.88	1.177
13C-2,3,7,8-TCDF		2000	1400	70.0	0.79	0.966
13C-1,2,3,7,8-PECDF		2000	1450	72.6	1.56	1.285
13C-2,3,4,7,8-PECDF		2000	1410	70.4	1.52	1.351
13C-1,2,3,4,7,8-HXCDF		2000	1370	68.5	0.50	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1430	71.5	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1290	64.7	0.50	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1300	65.1	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1340	67.2	0.44	1.061
13C-1,2,3,4,7,8,9-HPCDF		2000	1310	65.6	0.44	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	191	95.5		1.015
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_L12912-8_Form2_DX9M_083S11_SJ1029812.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654018
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-8
Matrix:	SOLID	Sample Size:	10.0 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	11-Jul-2009 Time: 02:54:14	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_148 S: 13
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_148 S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	51.3

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF		1.76	0.151	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
10654018

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4390

Matrix: SOLID

Sample Size: 10.0 g (dry)

Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A

Lab Sample I.D.: L12912-8

GC Column ID(s): DB225
DB5

Sample Data Filenames: DB93_148 S: 13
DX9M_083 S: 11

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.679	0.139	1	6.79e-01	6.79e-01	
1,2,3,7,8-PECDD		2.85	0.195	1	2.85e+00	2.85e+00	
1,2,3,4,7,8-HXCDD		4.44	0.135	0.1	4.44e-01	4.44e-01	
1,2,3,6,7,8-HXCDD		23.2	0.135	0.1	2.32e+00	2.32e+00	
1,2,3,7,8,9-HXCDD		11.2	0.135	0.1	1.12e+00	1.12e+00	
1,2,3,4,6,7,8-HPCDD		487	0.232	0.01	4.87e+00	4.87e+00	
OCDD		3870	0.146	0.0003	1.16e+00	1.16e+00	
2,3,7,8-TCDF		1.76	0.151	0.1	1.76e-01	1.76e-01	
1,2,3,7,8-PECDF		0.989	0.174	0.03	2.97e-02	2.97e-02	
2,3,4,7,8-PECDF		2.04	0.174	0.3	6.12e-01	6.12e-01	
1,2,3,4,7,8-HXCDF		6.46	0.118	0.1	6.46e-01	6.46e-01	
1,2,3,6,7,8-HXCDF		2.78	0.118	0.1	2.78e-01	2.78e-01	
1,2,3,7,8,9-HXCDF		0.319	0.118	0.1	3.19e-02	3.19e-02	
2,3,4,6,7,8-HXCDF		3.10	0.118	0.1	3.10e-01	3.10e-01	
1,2,3,4,6,7,8-HPCDF		159	0.241	0.01	1.59e+00	1.59e+00	
1,2,3,4,7,8,9-HPCDF		9.49	0.241	0.01	9.49e-02	9.49e-02	
OCDF		690	0.195	0.0003	2.07e-01	2.07e-01	
TOTAL TEQ					17.4	17.4	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.679	0.139	1	6.79e-01	6.79e-01	
1,2,3,7,8-PECDD		2.85	0.195	1	2.85e+00	2.85e+00	
1,2,3,4,7,8-HXCDD		4.44	0.135	0.1	4.44e-01	4.44e-01	
1,2,3,6,7,8-HXCDD		23.2	0.135	0.1	2.32e+00	2.32e+00	
1,2,3,7,8,9-HXCDD		11.2	0.135	0.1	1.12e+00	1.12e+00	
1,2,3,4,6,7,8-HPCDD		487	0.232	0.01	4.87e+00	4.87e+00	
OCDD		3870	0.146	0.0001	3.87e-01	3.87e-01	
2,3,7,8-TCDF		1.76	0.151	0.1	1.76e-01	1.76e-01	
1,2,3,7,8-PECDF		0.989	0.174	0.05	4.95e-02	4.95e-02	
2,3,4,7,8-PECDF		2.04	0.174	0.5	1.02e+00	1.02e+00	
1,2,3,4,7,8-HXCDF		6.46	0.118	0.1	6.46e-01	6.46e-01	
1,2,3,6,7,8-HXCDF		2.78	0.118	0.1	2.78e-01	2.78e-01	
1,2,3,7,8,9-HXCDF		0.319	0.118	0.1	3.19e-02	3.19e-02	
2,3,4,6,7,8-HXCDF		3.10	0.118	0.1	3.10e-01	3.10e-01	
1,2,3,4,6,7,8-HPCDF		159	0.241	0.01	1.59e+00	1.59e+00	
1,2,3,4,7,8,9-HPCDF		9.49	0.241	0.01	9.49e-02	9.49e-02	
OCDF		690	0.195	0.0001	6.90e-02	6.90e-02	
TOTAL TEQ					16.9	16.9	

(1) Where applicable, custom lab flags have been used on this report.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654034
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-9 (A)
Matrix:	SOLID	Sample Size:	10.0 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	11-Jul-2009 Time: 04:50:34	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 23
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 14
Concentration Units:	pg/g (dry weight basis)	% Moisture:	31.6

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD	K	0.483	0.0530	0.62	1.001
1,2,3,7,8-PECDD ³		2.79	0.0498	0.58	1.000
1,2,3,4,7,8-HXCDD		3.42	0.0627	1.26	1.000
1,2,3,6,7,8-HXCDD		23.5	0.0627	1.27	1.000
1,2,3,7,8,9-HXCDD		9.78	0.0627	1.18	1.000
1,2,3,4,6,7,8-HPCDD		453	0.218	1.03	1.000
OCDD		3190	0.0505	0.87	1.000
2,3,7,8-TCDF		1.90	0.0498	0.79	1.002
1,2,3,7,8-PECDF	K	0.856	0.0689	1.24	1.001
2,3,4,7,8-PECDF		1.87	0.0689	1.68	1.001
1,2,3,4,7,8-HXCDF		5.95	0.0770	1.25	1.000
1,2,3,6,7,8-HXCDF		2.87	0.0770	1.31	1.000
1,2,3,7,8,9-HXCDF	K	0.320	0.0770	1.01	1.000
2,3,4,6,7,8-HXCDF		3.00	0.0770	1.21	1.001
1,2,3,4,6,7,8-HPCDF		164	0.165	1.00	1.000
1,2,3,4,7,8,9-HPCDF		8.53	0.165	0.93	1.000
OCDF		588	0.107	0.87	1.002
TOTAL TETRA-DIOXINS		15.3	0.0530		
TOTAL PENTA-DIOXINS		28.6	0.0498		
TOTAL HEXA-DIOXINS		186	0.0627		
TOTAL HEPTA-DIOXINS		879	0.218		
TOTAL TETRA-FURANS		16.7	0.0498		
TOTAL PENTA-FURANS		38.5	0.0689		
TOTAL HEXA-FURANS		161	0.0770		
TOTAL HEPTA-FURANS		548	0.165		

- (1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.
- (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
- (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_L12912-9_Form1A_DX9M_083S23_SJ1029875.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654034
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-9 (A)
Matrix:	SOLID	Sample Size:	10.0 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	11-Jul-2009 Time: 04:50:34	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 23
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 14
Concentration Units:	pg absolute	% Moisture:	31.6

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1550	77.3	0.77	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1720	85.8	0.62	1.383
13C-1,2,3,4,7,8-HXCDD		2000	1600	80.1	1.24	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1490	74.4	1.21	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1410	70.5	1.07	1.094
13C-OCDD		4000	2260	56.6	0.88	1.177
13C-2,3,7,8-TCDF		2000	1490	74.5	0.77	0.965
13C-1,2,3,7,8-PECDF		2000	1660	83.0	1.53	1.284
13C-2,3,4,7,8-PECDF		2000	1620	80.9	1.58	1.352
13C-1,2,3,4,7,8-HXCDF		2000	1550	77.4	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1580	79.1	0.50	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1410	70.5	0.51	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1500	74.8	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1400	70.1	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1350	67.5	0.43	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	191	95.3		1.014
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_L12912-9_Form2_DX9M_083S23_SJ1029875.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654034
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	L12912-9 (A)
Matrix:	SOLID	Sample Size:	10.0 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	13-Jul-2009 Time: 20:06:47	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_149C S: 5
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_149C S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	31.6

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF	K	0.978	0.0891	1.00	1.000

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB225_L12912-9_Form1A_DB93_149CS5_SJ1030763.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
10654034

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection: N/A

Contract No.: 4390

Matrix: SOLID

Lab Sample I.D.: L12912-9 (A)

Sample Size: 10.0 g (dry)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames: DB93_149C S: 5
DX9M_083 S: 23

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.0530	1	0.00e+00	2.65e-02	
1,2,3,7,8-PECDD		2.79	0.0498	1	2.79e+00	2.79e+00	
1,2,3,4,7,8-HXCDD		3.42	0.0627	0.1	3.42e-01	3.42e-01	
1,2,3,6,7,8-HXCDD		23.5	0.0627	0.1	2.35e+00	2.35e+00	
1,2,3,7,8,9-HXCDD		9.78	0.0627	0.1	9.78e-01	9.78e-01	
1,2,3,4,6,7,8-HPCDD		453	0.218	0.01	4.53e+00	4.53e+00	
OCDD		3190	0.0505	0.0003	9.57e-01	9.57e-01	
2,3,7,8-TCDF	U		0.0891	0.1	0.00e+00	4.46e-03	
1,2,3,7,8-PECDF	U		0.0689	0.03	0.00e+00	1.03e-03	
2,3,4,7,8-PECDF		1.87	0.0689	0.3	5.61e-01	5.61e-01	
1,2,3,4,7,8-HXCDF		5.95	0.0770	0.1	5.95e-01	5.95e-01	
1,2,3,6,7,8-HXCDF		2.87	0.0770	0.1	2.87e-01	2.87e-01	
1,2,3,7,8,9-HXCDF	U		0.0770	0.1	0.00e+00	3.85e-03	
2,3,4,6,7,8-HXCDF		3.00	0.0770	0.1	3.00e-01	3.00e-01	
1,2,3,4,6,7,8-HPCDF		164	0.165	0.01	1.64e+00	1.64e+00	
1,2,3,4,7,8,9-HPCDF		8.53	0.165	0.01	8.53e-02	8.53e-02	
OCDF		588	0.107	0.0003	1.76e-01	1.76e-01	
TOTAL TEQ					15.6	15.6	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.0530	1	0.00e+00	2.65e-02	
1,2,3,7,8-PECDD		2.79	0.0498	1	2.79e+00	2.79e+00	
1,2,3,4,7,8-HXCDD		3.42	0.0627	0.1	3.42e-01	3.42e-01	
1,2,3,6,7,8-HXCDD		23.5	0.0627	0.1	2.35e+00	2.35e+00	
1,2,3,7,8,9-HXCDD		9.78	0.0627	0.1	9.78e-01	9.78e-01	
1,2,3,4,6,7,8-HPCDD		453	0.218	0.01	4.53e+00	4.53e+00	
OCDD		3190	0.0505	0.0001	3.19e-01	3.19e-01	
2,3,7,8-TCDF	U		0.0891	0.1	0.00e+00	4.46e-03	
1,2,3,7,8-PECDF	U		0.0689	0.05	0.00e+00	1.72e-03	
2,3,4,7,8-PECDF		1.87	0.0689	0.5	9.35e-01	9.35e-01	
1,2,3,4,7,8-HXCDF		5.95	0.0770	0.1	5.95e-01	5.95e-01	
1,2,3,6,7,8-HXCDF		2.87	0.0770	0.1	2.87e-01	2.87e-01	
1,2,3,7,8,9-HXCDF	U		0.0770	0.1	0.00e+00	3.85e-03	
2,3,4,6,7,8-HXCDF		3.00	0.0770	0.1	3.00e-01	3.00e-01	
1,2,3,4,6,7,8-HPCDF		164	0.165	0.01	1.64e+00	1.64e+00	
1,2,3,4,7,8,9-HPCDF		8.53	0.165	0.01	8.53e-02	8.53e-02	
OCDF		588	0.107	0.0001	5.88e-02	5.88e-02	
TOTAL TEQ					15.2	15.2	

(1) Where applicable, custom lab flags have been used on this report.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654034 (Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	WG29271-103 (DUP L12912-9)
Matrix:	SOLID	Sample Size:	10.1 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	11-Jul-2009 Time: 05:45:32	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 24
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 14
Concentration Units:	pg/g (dry weight basis)	% Moisture:	32.0

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD		0.543	0.0495	0.79	1.001
1,2,3,7,8-PECDD ³		2.62	0.0495	0.65	1.001
1,2,3,4,7,8-HXCDD		3.37	0.0722	1.15	1.000
1,2,3,6,7,8-HXCDD		22.9	0.0722	1.24	1.000
1,2,3,7,8,9-HXCDD		9.74	0.0722	1.23	1.000
1,2,3,4,6,7,8-HPCDD		449	0.118	0.99	1.000
OCDD		3130	0.0636	0.87	1.000
2,3,7,8-TCDF		2.25	0.0495	0.73	1.001
1,2,3,7,8-PECDF		0.790	0.0528	1.35	1.001
2,3,4,7,8-PECDF		1.94	0.0528	1.46	1.001
1,2,3,4,7,8-HXCDF		6.22	0.0742	1.18	1.001
1,2,3,6,7,8-HXCDF		2.87	0.0742	1.18	1.000
1,2,3,7,8,9-HXCDF		0.325	0.0742	1.40	1.000
2,3,4,6,7,8-HXCDF		2.91	0.0742	1.23	1.000
1,2,3,4,6,7,8-HPCDF		148	0.133	1.02	1.000
1,2,3,4,7,8,9-HPCDF		8.79	0.133	1.01	1.000
OCDF		621	0.104	0.87	1.002
TOTAL TETRA-DIOXINS		33.7	0.0495		
TOTAL PENTA-DIOXINS		38.8	0.0495		
TOTAL HEXA-DIOXINS		180	0.0722		
TOTAL HEPTA-DIOXINS		844	0.118		
TOTAL TETRA-FURANS		20.0	0.0495		
TOTAL PENTA-FURANS		36.4	0.0528		
TOTAL HEXA-FURANS		146	0.0742		
TOTAL HEPTA-FURANS		536	0.133		

(1) Where applicable, custom lab flags have been used on this report.
 (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
 (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

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 Report Filename: 1613_DIOXINS_1613DB5_WG29271-103_Form1A_DX9M_083S24_SJ1029876.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654034 (Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	WG29271-103 (DUP L12912-9)
Matrix:	SOLID	Sample Size:	10.1 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	11-Jul-2009 Time: 05:45:32	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 24
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 14
Concentration Units:	pg absolute	% Moisture:	32.0

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1670	83.4	0.76	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1800	90.1	0.62	1.383
13C-1,2,3,4,7,8-HXCDD		2000	1640	82.0	1.24	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1520	75.9	1.23	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1540	76.8	1.02	1.094
13C-OCDD		4000	2500	62.6	0.87	1.177
13C-2,3,7,8-TCDF		2000	1640	82.0	0.77	0.966
13C-1,2,3,7,8-PECDF		2000	1720	85.8	1.53	1.285
13C-2,3,4,7,8-PECDF		2000	1700	84.9	1.53	1.352
13C-1,2,3,4,7,8-HXCDF		2000	1600	80.1	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1540	77.0	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1500	74.8	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1530	76.6	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1490	74.4	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1490	74.3	0.44	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	208	104		1.014
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_WG29271-103_Form2_DX9M_083S24_SJ1029876.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
10654034 (Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	WG29271-103 (DUP L12912-9)
Matrix:	SOLID	Sample Size:	10.1 g (dry)
Sample Receipt Date:	30-Jun-2009	Initial Calibration Date:	09-Jul-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	13-Jul-2009 Time: 20:42:22	GC Column ID:	DB225
Extract Volume (uL):	20	Sample Data Filename:	DB93_149C S: 6
Injection Volume (uL):	2.0	Blank Data Filename:	N/A
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DB93_149C S: 2
Concentration Units:	pg/g (dry weight basis)	% Moisture:	32.0

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDF		1.03	0.152	0.66	1.001

(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB225_WG29271-103_Form1A_DB93_149CS6_SJ1030764.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
10654034 (Duplicate)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection:

N/A

Contract No.: 4390

Matrix: SOLID

Lab Sample I.D.:

WG29271-103 (DUP L12912-9)

Sample Size: 10.1 g (dry)

GC Column ID(s):

DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames:

DB93_149C S: 6
DX9M_083 S: 24

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.543	0.0495	1	5.43e-01	5.43e-01	
1,2,3,7,8-PECDD		2.62	0.0495	1	2.62e+00	2.62e+00	
1,2,3,4,7,8-HXCDD		3.37	0.0722	0.1	3.37e-01	3.37e-01	
1,2,3,6,7,8-HXCDD		22.9	0.0722	0.1	2.29e+00	2.29e+00	
1,2,3,7,8,9-HXCDD		9.74	0.0722	0.1	9.74e-01	9.74e-01	
1,2,3,4,6,7,8-HPCDD		449	0.118	0.01	4.49e+00	4.49e+00	
OCDD		3130	0.0636	0.0003	9.39e-01	9.39e-01	
2,3,7,8-TCDF		1.03	0.152	0.1	1.03e-01	1.03e-01	
1,2,3,7,8-PECDF		0.790	0.0528	0.03	2.37e-02	2.37e-02	
2,3,4,7,8-PECDF		1.94	0.0528	0.3	5.82e-01	5.82e-01	
1,2,3,4,7,8-HXCDF		6.22	0.0742	0.1	6.22e-01	6.22e-01	
1,2,3,6,7,8-HXCDF		2.87	0.0742	0.1	2.87e-01	2.87e-01	
1,2,3,7,8,9-HXCDF		0.325	0.0742	0.1	3.25e-02	3.25e-02	
2,3,4,6,7,8-HXCDF		2.91	0.0742	0.1	2.91e-01	2.91e-01	
1,2,3,4,6,7,8-HPCDF		148	0.133	0.01	1.48e+00	1.48e+00	
1,2,3,4,7,8,9-HPCDF		8.79	0.133	0.01	8.79e-02	8.79e-02	
OCDF		621	0.104	0.0003	1.86e-01	1.86e-01	
TOTAL TEQ					15.9	15.9	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		0.543	0.0495	1	5.43e-01	5.43e-01	
1,2,3,7,8-PECDD		2.62	0.0495	1	2.62e+00	2.62e+00	
1,2,3,4,7,8-HXCDD		3.37	0.0722	0.1	3.37e-01	3.37e-01	
1,2,3,6,7,8-HXCDD		22.9	0.0722	0.1	2.29e+00	2.29e+00	
1,2,3,7,8,9-HXCDD		9.74	0.0722	0.1	9.74e-01	9.74e-01	
1,2,3,4,6,7,8-HPCDD		449	0.118	0.01	4.49e+00	4.49e+00	
OCDD		3130	0.0636	0.0001	3.13e-01	3.13e-01	
2,3,7,8-TCDF		1.03	0.152	0.1	1.03e-01	1.03e-01	
1,2,3,7,8-PECDF		0.790	0.0528	0.05	3.95e-02	3.95e-02	
2,3,4,7,8-PECDF		1.94	0.0528	0.5	9.70e-01	9.70e-01	
1,2,3,4,7,8-HXCDF		6.22	0.0742	0.1	6.22e-01	6.22e-01	
1,2,3,6,7,8-HXCDF		2.87	0.0742	0.1	2.87e-01	2.87e-01	
1,2,3,7,8,9-HXCDF		0.325	0.0742	0.1	3.25e-02	3.25e-02	
2,3,4,6,7,8-HXCDF		2.91	0.0742	0.1	2.91e-01	2.91e-01	
1,2,3,4,6,7,8-HPCDF		148	0.133	0.01	1.48e+00	1.48e+00	
1,2,3,4,7,8,9-HPCDF		8.79	0.133	0.01	8.79e-02	8.79e-02	
OCDF		621	0.104	0.0001	6.21e-02	6.21e-02	
TOTAL TEQ					15.5	15.5	

(1) Where applicable, custom lab flags have been used on this report.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

**PCDD/PCDF ANALYSIS REPORT
RELATIVE PERCENT DIFFERENCE**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4390

Client ID: 10654034

Concentration Units: pg/g (dry weight basis)

COMPOUND	L12912-9 (A)		WG29271-103		MEAN	RELATIVE PERCENT DIFFERENCE
	LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
2,3,7,8-TCDD	K	0.483		0.543		
1,2,3,7,8-PECDD		2.79		2.62	2.71	6.33
1,2,3,4,7,8-HXCDD		3.42		3.37	3.40	1.62
1,2,3,6,7,8-HXCDD		23.5		22.9	23.2	2.56
1,2,3,7,8,9-HXCDD		9.78		9.74	9.76	0.455
1,2,3,4,6,7,8-HPCDD		453		449	451	0.922
OCDD		3190		3130	3160	1.72
2,3,7,8-TCDF	K	0.978		1.03		
1,2,3,7,8-PECDF	K	0.856		0.790		
2,3,4,7,8-PECDF		1.87		1.94	1.91	3.29
1,2,3,4,7,8-HXCDF		5.95		6.22	6.08	4.42
1,2,3,6,7,8-HXCDF		2.87		2.87	2.87	0.145
1,2,3,7,8,9-HXCDF	K	0.320		0.325		
2,3,4,6,7,8-HXCDF		3.00		2.91	2.95	2.94
1,2,3,4,6,7,8-HPCDF		164		148	156	10.0
1,2,3,4,7,8,9-HPCDF		8.53		8.79	8.66	2.96
OCDF		588		621	604	5.53

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: RPD.xml; Created: 23-Jul-2009 10:50:35; Application: XMLTransformer-1.9.26; Report Filename: RPD_DIOXINS_1613-RPD_WG29271-103_L12912-9_.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.

AXYS METHOD MLA-017 Rev 16

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	WG29271-101 i2
Matrix:	SOLID	Sample Size:	10.0 g
Sample Receipt Date:	N/A	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 11:12:16	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 4
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg/g		

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO ²	RRT ²
2,3,7,8-TCDD	U		0.138		
1,2,3,7,8-PECDD ³	U		0.242		
1,2,3,4,7,8-HXCDD	U		0.159		
1,2,3,6,7,8-HXCDD	U		0.159		
1,2,3,7,8,9-HXCDD	U		0.159		
1,2,3,4,6,7,8-HPCDD	U		0.140		
OCDD	U		0.169		
2,3,7,8-TCDF	U		0.122		
1,2,3,7,8-PECDF	U		0.154		
2,3,4,7,8-PECDF	U		0.154		
1,2,3,4,7,8-HXCDF	U		0.118		
1,2,3,6,7,8-HXCDF	U		0.118		
1,2,3,7,8,9-HXCDF	U		0.118		
2,3,4,6,7,8-HXCDF	U		0.118		
1,2,3,4,6,7,8-HPCDF	U		0.132		
1,2,3,4,7,8,9-HPCDF	U		0.132		
OCDF	U		0.337		
TOTAL TETRA-DIOXINS	U		0.138		
TOTAL PENTA-DIOXINS	U		0.242		
TOTAL HEXA-DIOXINS	U		0.159		
TOTAL HEPTA-DIOXINS	U		0.140		
TOTAL TETRA-FURANS	U		0.122		
TOTAL PENTA-FURANS	U		0.154		
TOTAL HEXA-FURANS	U		0.118		
TOTAL HEPTA-FURANS	U		0.132		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
 (2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
 (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26;
 Report Filename: 1613_DIOXINS_1613DB5_WG29271-101_Form1A_DX9M_083S4_SJ1029817.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	WG29271-101 i2
Matrix:	SOLID	Sample Size:	10.0 g
Sample Receipt Date:	N/A	Initial Calibration Date:	19-Jun-2009
Extraction Date:	03-Jul-2009	Instrument ID:	HR GC/MS
Analysis Date:	10-Jul-2009 Time: 11:12:16	GC Column ID:	DB5
Extract Volume (uL):	20	Sample Data Filename:	DX9M_083 S: 4
Injection Volume (uL):	1.0	Blank Data Filename:	DX9M_083 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	DX9M_083 S: 1
Concentration Units:	pg absolute		

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		2000	1500	75.0	0.78	1.013
13C-1,2,3,7,8-PECDD ⁴		2000	1710	85.4	0.62	1.382
13C-1,2,3,4,7,8-HXCDD		2000	1520	76.1	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1540	76.9	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1370	68.5	1.01	1.094
13C-OCDD		4000	1930	48.2	0.88	1.177
13C-2,3,7,8-TCDF		2000	1510	75.6	0.75	0.966
13C-1,2,3,7,8-PECDF		2000	1660	83.1	1.53	1.284
13C-2,3,4,7,8-PECDF		2000	1610	80.7	1.55	1.351
13C-1,2,3,4,7,8-HXCDF		2000	1530	76.4	0.50	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1570	78.6	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1430	71.6	0.50	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1490	74.3	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1430	71.5	0.43	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1310	65.5	0.44	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	180	90.1		1.014
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
- (3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_WG29271-101_Form2_DX9M_083S4_SJ1029817.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
Lab Blank

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4390

Sample Collection: N/A

Matrix: SOLID

Lab Sample I.D.: WG29271-101 i2

Sample Size: 10.0 g

GC Column ID: DB5

Concentration Units: pg/g

Sample Data Filename: DX9M_083 S: 4

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.138	1	0.00e+00	6.90e-02	
1,2,3,7,8-PECDD	U		0.242	1	0.00e+00	1.21e-01	
1,2,3,4,7,8-HXCDD	U		0.159	0.1	0.00e+00	7.95e-03	
1,2,3,6,7,8-HXCDD	U		0.159	0.1	0.00e+00	7.95e-03	
1,2,3,7,8,9-HXCDD	U		0.159	0.1	0.00e+00	7.95e-03	
1,2,3,4,6,7,8-HPCDD	U		0.140	0.01	0.00e+00	7.00e-04	
OCDD	U		0.169	0.0003	0.00e+00	2.54e-05	
2,3,7,8-TCDF	U		0.122	0.1	0.00e+00	6.10e-03	
1,2,3,7,8-PECDF	U		0.154	0.03	0.00e+00	2.31e-03	
2,3,4,7,8-PECDF	U		0.154	0.3	0.00e+00	2.31e-02	
1,2,3,4,7,8-HXCDF	U		0.118	0.1	0.00e+00	5.90e-03	
1,2,3,6,7,8-HXCDF	U		0.118	0.1	0.00e+00	5.90e-03	
1,2,3,7,8,9-HXCDF	U		0.118	0.1	0.00e+00	5.90e-03	
2,3,4,6,7,8-HXCDF	U		0.118	0.1	0.00e+00	5.90e-03	
1,2,3,4,6,7,8-HPCDF	U		0.132	0.01	0.00e+00	6.60e-04	
1,2,3,4,7,8,9-HPCDF	U		0.132	0.01	0.00e+00	6.60e-04	
OCDF	U		0.337	0.0003	0.00e+00	5.06e-05	
TOTAL TEQ					0	0.271	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD	U		0.138	1	0.00e+00	6.90e-02	
1,2,3,7,8-PECDD	U		0.242	1	0.00e+00	1.21e-01	
1,2,3,4,7,8-HXCDD	U		0.159	0.1	0.00e+00	7.95e-03	
1,2,3,6,7,8-HXCDD	U		0.159	0.1	0.00e+00	7.95e-03	
1,2,3,7,8,9-HXCDD	U		0.159	0.1	0.00e+00	7.95e-03	
1,2,3,4,6,7,8-HPCDD	U		0.140	0.01	0.00e+00	7.00e-04	
OCDD	U		0.169	0.0001	0.00e+00	8.45e-06	
2,3,7,8-TCDF	U		0.122	0.1	0.00e+00	6.10e-03	
1,2,3,7,8-PECDF	U		0.154	0.05	0.00e+00	3.85e-03	
2,3,4,7,8-PECDF	U		0.154	0.5	0.00e+00	3.85e-02	
1,2,3,4,7,8-HXCDF	U		0.118	0.1	0.00e+00	5.90e-03	
1,2,3,6,7,8-HXCDF	U		0.118	0.1	0.00e+00	5.90e-03	
1,2,3,7,8,9-HXCDF	U		0.118	0.1	0.00e+00	5.90e-03	
2,3,4,6,7,8-HXCDF	U		0.118	0.1	0.00e+00	5.90e-03	
1,2,3,4,6,7,8-HPCDF	U		0.132	0.01	0.00e+00	6.60e-04	
1,2,3,4,7,8,9-HPCDF	U		0.132	0.01	0.00e+00	6.60e-04	
OCDF	U		0.337	0.0001	0.00e+00	1.69e-05	
TOTAL TEQ					0	0.288	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 8A

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4390 OPR Data Filename: DX9M_082E S: 24

Matrix: SOLID Lab Sample I.D.: WG29271-102 i

Extraction Date: 03-Jul-2009 Analysis Date: 09-Jul-2009 Time: 17:28:01

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

COMPOUND	LAB FLAG ¹	ION ABUND. RATIO ²	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS ³ (ng/mL)	% RECOVERY
2,3,7,8-TCDD		0.78	10.0	10.2	6.70 - 15.8	102
1,2,3,7,8-PECDD ⁴		0.62	52.0	51.0	36.4 - 73.8	98.1
1,2,3,4,7,8-HXCDD		1.25	56.5	55.8	39.6 - 92.7	98.7
1,2,3,6,7,8-HXCDD		1.18	55.5	55.3	42.2 - 74.4	99.6
1,2,3,7,8,9-HXCDD		1.20	54.0	56.6	34.6 - 87.5	105
1,2,3,4,6,7,8-HPCDD		1.03	47.5	48.5	33.3 - 66.5	102
OCDD		0.88	100	99.7	78.0 - 144	99.7
2,3,7,8-TCDF		0.77	10.7	11.4	8.03 - 16.9	107
1,2,3,7,8-PECDF		1.49	46.0	47.6	36.8 - 61.6	103
2,3,4,7,8-PECDF		1.52	47.0	48.9	32.0 - 75.2	104
1,2,3,4,7,8-HXCDF		1.22	50.0	52.4	36.0 - 67.0	105
1,2,3,6,7,8-HXCDF		1.20	47.5	50.6	39.9 - 61.8	107
1,2,3,7,8,9-HXCDF		1.15	52.5	56.6	41.0 - 68.3	108
2,3,4,6,7,8-HXCDF		1.19	53.0	54.6	37.1 - 82.7	103
1,2,3,4,6,7,8-HPCDF		1.02	50.0	56.6	41.0 - 61.0	113
1,2,3,4,7,8,9-HPCDF		0.98	50.0	54.6	39.0 - 69.0	109
OCDF		0.90	104	107	65.5 - 177	103

- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.
- (3) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under OPR.
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form8A.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_WG29271-102_Form8A_SJ1029805.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.

AXYS METHOD MLA-017 Rev 16

Form 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4390 OPR Data Filename: DX9M_082E S: 24

Matrix: SOLID Lab Sample I.D.: WG29271-102 i

Extraction Date: 03-Jul-2009 Analysis Date: 09-Jul-2009 Time: 17:28:01

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

LABELLED COMPOUND	LAB FLAG ¹	ION ABUND. RATIO ²	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS ³ (ng/mL)	% RECOVERY
13C-2,3,7,8-TCDD		0.78	100	77.6	20.0-175	77.6
13C-1,2,3,7,8-PECDD ⁴		0.62	100	87.9	21.0-227	87.9
13C-1,2,3,4,7,8-HXCDD		1.29	100	77.4	21.0-193	77.4
13C-1,2,3,6,7,8-HXCDD		1.20	100	76.1	25.0-163	76.1
13C-1,2,3,4,6,7,8-HPCDD		1.02	100	68.6	26.0-166	68.6
13C-OCDD		0.86	200	104	26.0-397	52.0
13C-2,3,7,8-TCDF		0.78	100	79.0	22.0-152	79.0
13C-1,2,3,7,8-PCDF		1.53	100	85.9	21.0-192	85.9
13C-2,3,4,7,8-PCDF		1.51	100	82.8	13.0-328	82.8
13C-1,2,3,4,7,8-HXCDF		0.50	100	75.8	19.0-202	75.8
13C-1,2,3,6,7,8-HXCDF		0.51	100	78.6	21.0-159	78.6
13C-1,2,3,7,8,9-HXCDF		0.50	100	73.6	17.0-205	73.6
13C-2,3,4,6,7,8-HXCDF		0.50	100	75.4	22.0-176	75.4
13C-1,2,3,4,6,7,8-HPCDF		0.43	100	69.8	21.0-158	69.8
13C-1,2,3,4,7,8,9-HPCDF		0.43	100	67.5	20.0-186	67.5

CLEANUP STANDARD

37CL-2,3,7,8-TCDD			10.0	9.80	3.10-19.1	98.0
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- (1) Where applicable, custom lab flags have been used on this report.
- (2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.
- (3) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. Labeled compound concentrations limits are based on required percent recovery (Section 15.5, Method 1613).
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form8B.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_WG29271-102_Form8B_SJ1029805.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 8G

PCDD/PCDF CERTIFIED REFERENCE MATERIAL (CRM) REPORT FOR NIST SRM 1944

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	WG29271-104
Matrix:	SOLID	Sample Size:	0.500 g (dry)
Extraction Date:	03-Jul-2009	Initial Calibration Date:	19-Jun-2009
Analysis Date:	11-Jul-2009 Time: 06:40:28	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	CRM Data Filename:	DX9M_083 S: 25
Dilution Factor:	N/A	Blank Data Filename:	DX9M_083 S: 4
Concentration Units:	pg/g (dry weight basis)	Cal. Ver. Data Filename:	DX9M_083 S: 14

COMPOUND	LAB FLAG ¹	DETERMINED	CERTIFIED / REFERENCE
2,3,7,8-TCDD		136	133 +/- 9
1,2,3,7,8-PECDD ²		16.7	19 +/- 2
1,2,3,4,7,8-HXCDD		24.3	26 +/- 3
1,2,3,6,7,8-HXCDD		60.6	56 +/- 6
1,2,3,7,8,9-HXCDD	K	61.6	53 +/- 7
1,2,3,4,6,7,8-HPCDD		777	800 +/- 70
OCDD		5840	5800 +/- 700
2,3,7,8-TCDF		177	39 +/- 15
1,2,3,7,8-PECDF		41.2	45 +/- 7
2,3,4,7,8-PECDF		41.1	45 +/- 4
1,2,3,4,7,8-HXCDF		210	220 +/- 30
1,2,3,6,7,8-HXCDF		90.8	90 +/- 10
1,2,3,7,8,9-HXCDF		3.10	19 +/- 18
2,3,4,6,7,8-HXCDF		51.3	54 +/- 6
1,2,3,4,6,7,8-HPCDF		1080	1000 +/- 100
1,2,3,4,7,8,9-HPCDF		42.9	40 +/- 6
OCDF		1190	1000 +/- 100

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.
 (2) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form8G.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_WG29271-104_Form8G_SJ1029877.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.

AXYS METHOD MLA-017 Rev 16

Form 8H

PCDD/PCDF CERTIFIED REFERENCE MATERIAL (CRM) REPORT FOR NIST SRM 1944

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	WG29271-104
Matrix:	SOLID	Sample Size:	0.500 g (dry)
Extraction Date:	03-Jul-2009	Initial Calibration Date:	19-Jun-2009
Analysis Date:	11-Jul-2009 Time: 06:40:28	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	CRM Data Filename:	DX9M_083 S: 25
Dilution Factor:	N/A	Blank Data Filename:	DX9M_083 S: 4
Concentration Units:	pg absolute	Cal. Ver. Data Filename:	DX9M_083 S: 14

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	% RECOVERY	ION ABUND. RATIO	RRT
13C-2,3,7,8-TCDD		2000	1720	85.8	0.78	1.013
13C-1,2,3,7,8-PECDD ²		2000	1790	89.3	0.62	1.383
13C-1,2,3,4,7,8-HXCDD		2000	1630	81.4	1.24	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1540	77.1	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1460	73.0	1.02	1.094
13C-OCDD		4000	2190	54.8	0.87	1.177
13C-2,3,7,8-TCDF		2000	1680	83.8	0.75	0.966
13C-1,2,3,7,8-PECDF		2000	1730	86.3	1.52	1.285
13C-2,3,4,7,8-PECDF		2000	1680	83.9	1.52	1.352
13C-1,2,3,4,7,8-HXCDF		2000	1680	84.0	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1600	80.1	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1500	75.2	0.51	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1570	78.4	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1490	74.4	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1450	72.5	0.45	1.103

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		200	204	102		1.014
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(1) Where applicable, custom lab flags have been used on this report.
 (2) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form8H.xsl; Created: 23-Jul-2009 10:49:27; Application: XMLTransformer-1.9.26; Report Filename: 1613_DIOXINS_1613DB5_WG29271-104_Form8H_SJ1029877.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

Form 8G

PCDD/PCDF CERTIFIED REFERENCE MATERIAL (CRM) REPORT FOR NIST SRM 1944

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4390	Lab Sample I.D.:	WG29271-104
Matrix:	SOLID	Sample Size:	0.500 g (dry)
Extraction Date:	03-Jul-2009	Initial Calibration Date:	09-Jul-2009
Analysis Date:	13-Jul-2009 Time: 21:18:02	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB225
Injection Volume (uL):	2.0	CRM Data Filename:	DB93_149C S: 7
Dilution Factor:	N/A	Blank Data Filename:	N/A
Concentration Units:	pg/g (dry weight basis)	Cal. Ver. Data Filename:	DB93_149C S: 2

COMPOUND	LAB FLAG ¹	DETERMINED	CERTIFIED / REFERENCE
2,3,7,8-TCDF		37.2	39 +/- 15

(1) Where applicable, custom lab flags have been used on this report.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form8G.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26;
 Report Filename: 1613_DIOXINS_1613DB225_WG29271-104_Form8G_SJ1030765.html; Workgroup: WG29271; Design ID: 397]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



AXYS METHOD MLA-017 Rev 16

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
Certified Reference Material

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection: N/A

Contract No.: 4390

Matrix: SOLID

Lab Sample I.D.: WG29271-104

Sample Size: 0.500 g (dry)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (dry weight basis)

Sample Data Filenames: DB93_149C S: 7
DX9M_083 S: 25

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		136	1.00	1	1.36e+02	1.36e+02	
1,2,3,7,8-PECDD		16.7	1.00	1	1.67e+01	1.67e+01	
1,2,3,4,7,8-HXCDD		24.3	1.00	0.1	2.43e+00	2.43e+00	
1,2,3,6,7,8-HXCDD		60.6	1.00	0.1	6.06e+00	6.06e+00	
1,2,3,7,8,9-HXCDD	U		1.00	0.1	0.00e+00	5.00e-02	
1,2,3,4,6,7,8-HPCDD		777	1.38	0.01	7.77e+00	7.77e+00	
OCDD		5840	1.59	0.0003	1.75e+00	1.75e+00	
2,3,7,8-TCDF		37.2	3.25	0.1	3.72e+00	3.72e+00	
1,2,3,7,8-PECDF		41.2	1.34	0.03	1.24e+00	1.24e+00	
2,3,4,7,8-PECDF		41.1	1.34	0.3	1.23e+01	1.23e+01	
1,2,3,4,7,8-HXCDF		210	1.15	0.1	2.10e+01	2.10e+01	
1,2,3,6,7,8-HXCDF		90.8	1.15	0.1	9.08e+00	9.08e+00	
1,2,3,7,8,9-HXCDF		3.10	1.15	0.1	3.10e-01	3.10e-01	
2,3,4,6,7,8-HXCDF		51.3	1.15	0.1	5.13e+00	5.13e+00	
1,2,3,4,6,7,8-HPCDF		1080	1.35	0.01	1.08e+01	1.08e+01	
1,2,3,4,7,8,9-HPCDF		42.9	1.35	0.01	4.29e-01	4.29e-01	
OCDF		1190	1.48	0.0003	3.57e-01	3.57e-01	
TOTAL TEQ					235	235	

COMPOUND	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
					ND=0	ND=1/2 DL	ND=DL
2,3,7,8-TCDD		136	1.00	1	1.36e+02	1.36e+02	
1,2,3,7,8-PECDD		16.7	1.00	1	1.67e+01	1.67e+01	
1,2,3,4,7,8-HXCDD		24.3	1.00	0.1	2.43e+00	2.43e+00	
1,2,3,6,7,8-HXCDD		60.6	1.00	0.1	6.06e+00	6.06e+00	
1,2,3,7,8,9-HXCDD	U		1.00	0.1	0.00e+00	5.00e-02	
1,2,3,4,6,7,8-HPCDD		777	1.38	0.01	7.77e+00	7.77e+00	
OCDD		5840	1.59	0.0001	5.84e-01	5.84e-01	
2,3,7,8-TCDF		37.2	3.25	0.1	3.72e+00	3.72e+00	
1,2,3,7,8-PECDF		41.2	1.34	0.05	2.06e+00	2.06e+00	
2,3,4,7,8-PECDF		41.1	1.34	0.5	2.06e+01	2.06e+01	
1,2,3,4,7,8-HXCDF		210	1.15	0.1	2.10e+01	2.10e+01	
1,2,3,6,7,8-HXCDF		90.8	1.15	0.1	9.08e+00	9.08e+00	
1,2,3,7,8,9-HXCDF		3.10	1.15	0.1	3.10e-01	3.10e-01	
2,3,4,6,7,8-HXCDF		51.3	1.15	0.1	5.13e+00	5.13e+00	
1,2,3,4,6,7,8-HPCDF		1080	1.35	0.01	1.08e+01	1.08e+01	
1,2,3,4,7,8,9-HPCDF		42.9	1.35	0.01	4.29e-01	4.29e-01	
OCDF		1190	1.48	0.0001	1.19e-01	1.19e-01	
TOTAL TEQ					243	243	

(1) Where applicable, custom lab flags have been used on this report.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Bryan Alonzo _____ QA/QC Chemist



Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-A.cdb 22 Jun 2009 09:42:41

Compound name: -

#	Name	ID	Sample Text	Acq. Date	Acq. Time
1	DX9M_072S1	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	19-Jun-09	09:48:25
2	DX9M_072S2	DX036C-CAL,,/01-8	1,,1.0uL CS-2	19-Jun-09	10:40:46
3	DX9M_072S3	DX036B-CAL,,/01	1,,1.0uL CS-1	19-Jun-09	11:35:40
4	DX9M_072S4	DX036A-CAL,,/01-7	1,,1.0uL CS-0.2	19-Jun-09	12:30:44
5	DX9M_072S5	DX036A-CAL,,/01-7	1,,1.0uL CS-0.2	19-Jun-09	13:25:40
6	DX9M_072S6	DX036F-CAL,,/01-3	1,,1.0uL CS-5	19-Jun-09	14:20:37
7	DX9M_072S7	DX036E-CAL,,/01	1,,1.0uL CS-4	19-Jun-09	15:15:31
8	DX9M_072S8	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	19-Jun-09	16:10:33
9	DX9M_072S9	DX020B-SUR,,/06	1,,1.0uL Inst Blank	19-Jun-09	18:40:31
10	DX9M_072S10	DX020B-SUR,,/06	1,,1.0uL Inst Blank	19-Jun-09	19:32:51
11	DX9M_072S11	L12494-1,RLC,	1,WG28972,1.0/20uL	19-Jun-09	20:27:47
12	DX9M_072S12	L12756-2,LC,	1,WG28972,1.0/20uL	19-Jun-09	21:22:45
13	DX9M_072S13	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	19-Jun-09	22:17:48



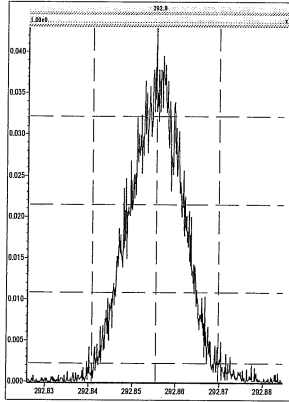
Experiment Calibration Report

MassLynx 4.1 DX9M_072 S1 CAL1

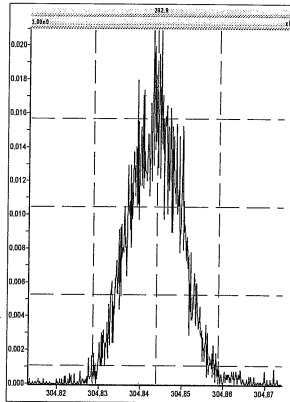
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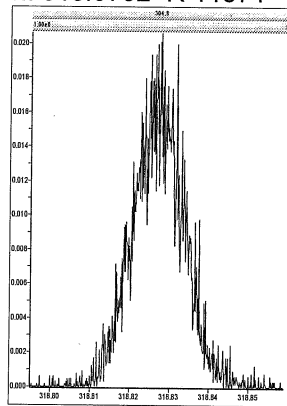
M 292.9824 R 10960



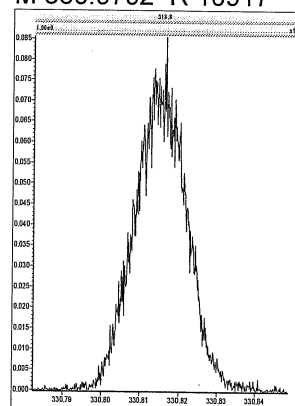
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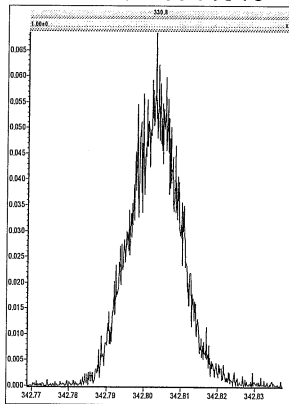
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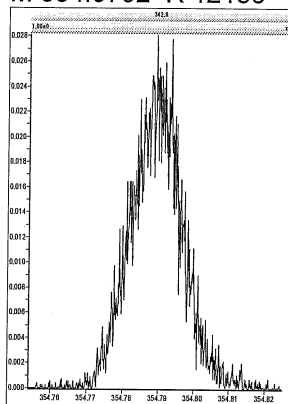
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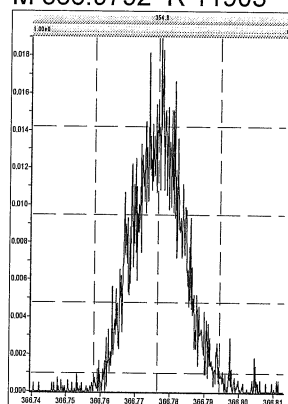
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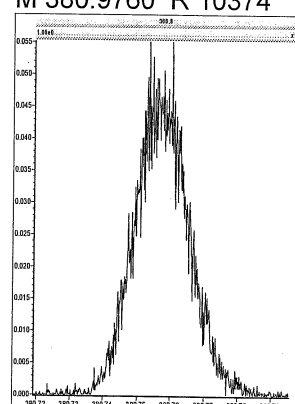
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M 366.9792 R 11903



M 380.9760 R 10374



090618DN.ipr



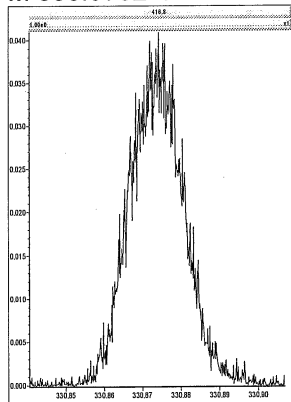
Experiment Calibration Report

MassLynx 4.1

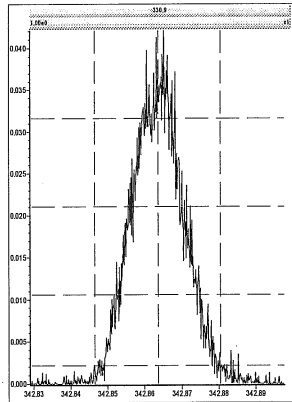
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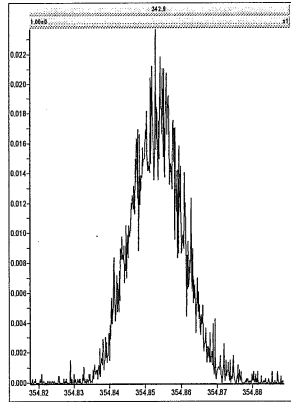
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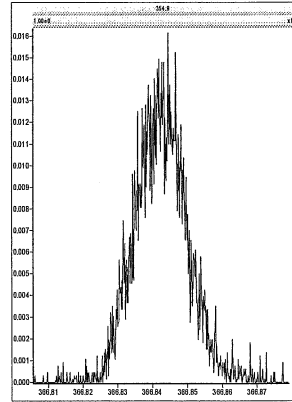
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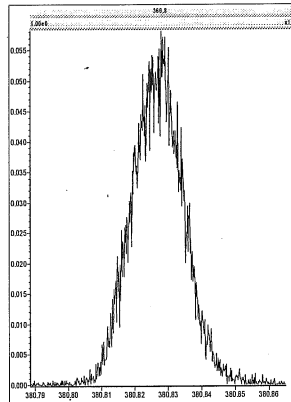
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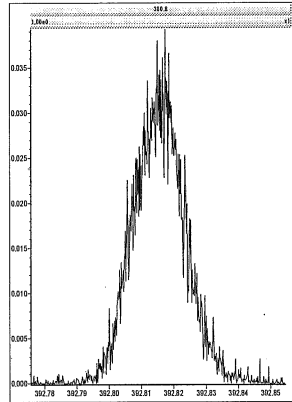
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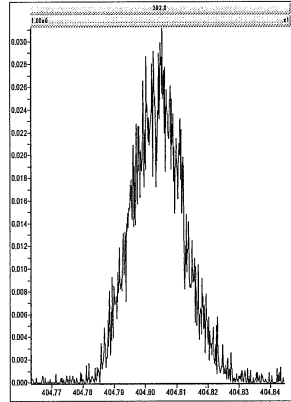
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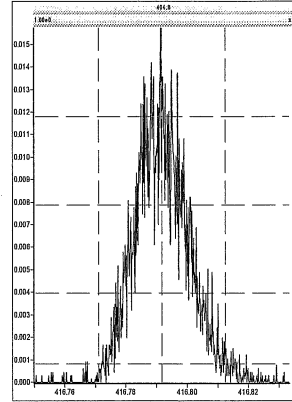
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M 404.9760 R 10869



M 416.9760 R 12565



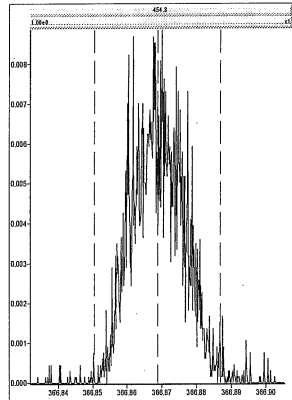
Experiment Calibration Report

MassLynx 4.1

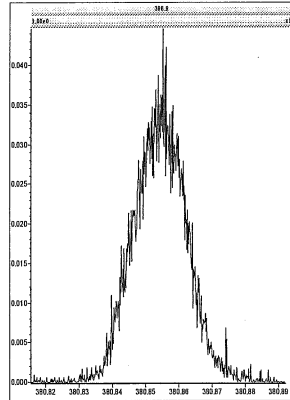
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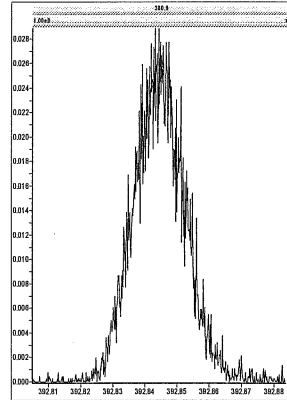
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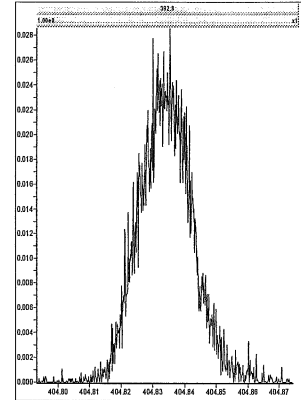
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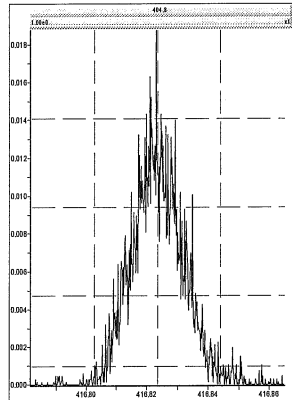
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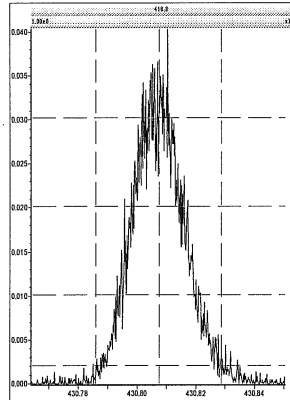
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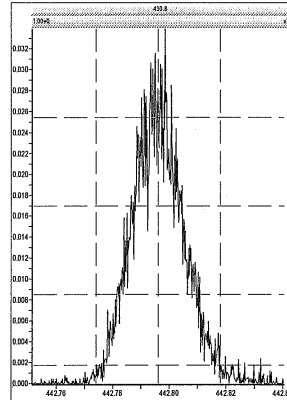
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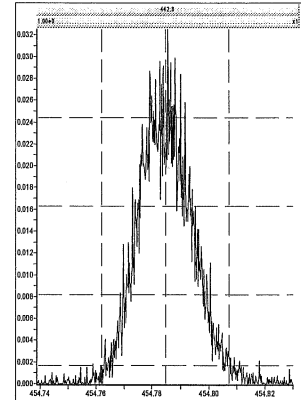
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M 442.9728 R 11363



M 454.9728 R 10915



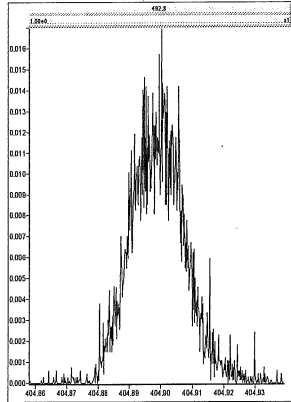
Experiment Calibration Report

MassLynx 4.1

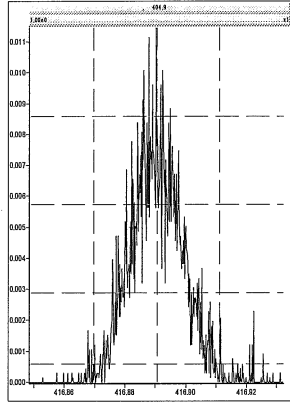
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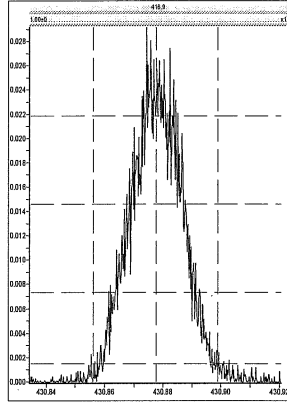
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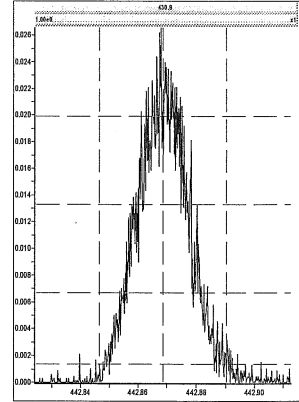
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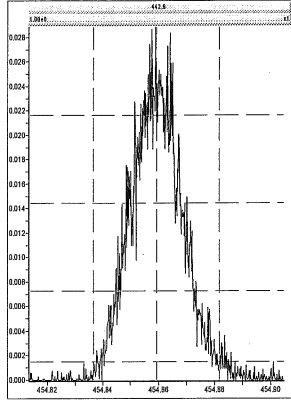
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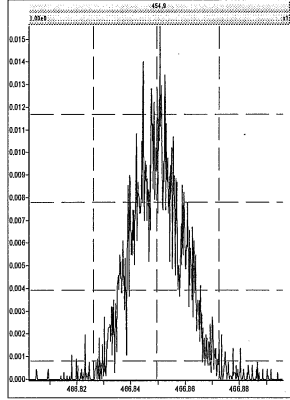
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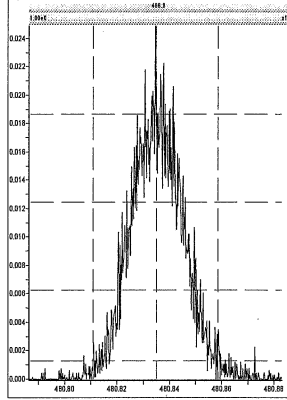
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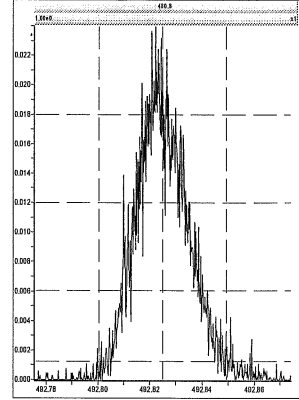
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M 480.9696 R 12821



M 492.9696 R 11960



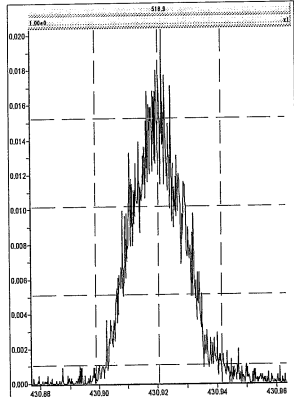
Experiment Calibration Report

MassLynx 4.1

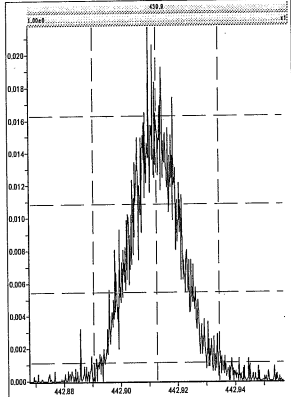
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Printed: Friday, June 19, 2009 09:46:46 Pacific Daylight Time

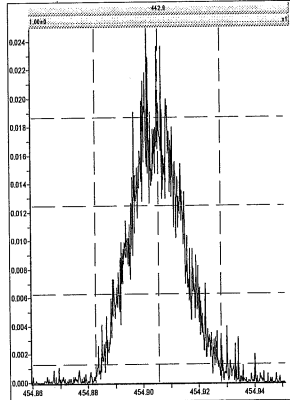
M 430.9728 R 11161



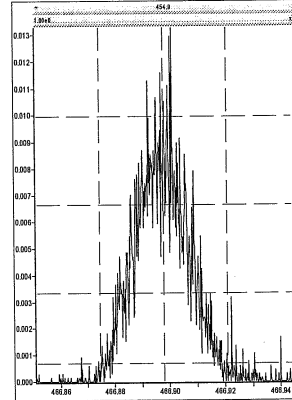
M 442.9728 R 12197



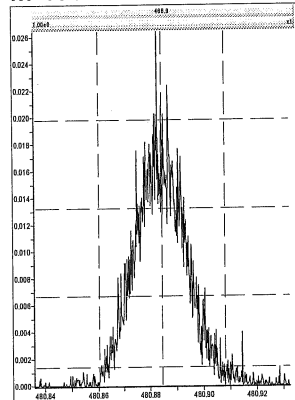
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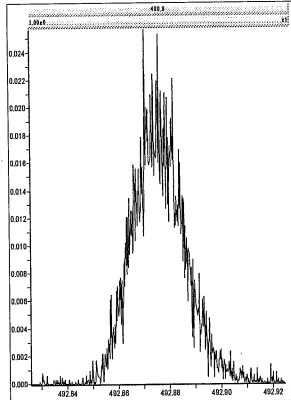
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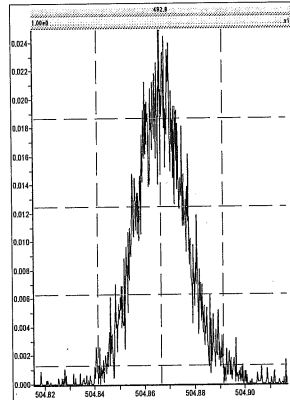
M 480.9696 R 11626



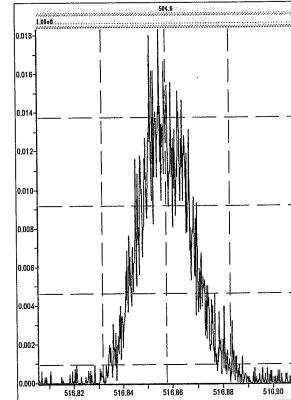
M 492.9696 R 12136



M 504.9696 R 13087

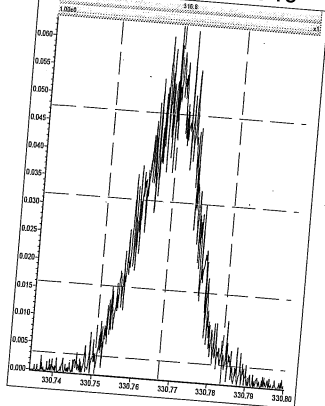


M 516.9697 R 12752

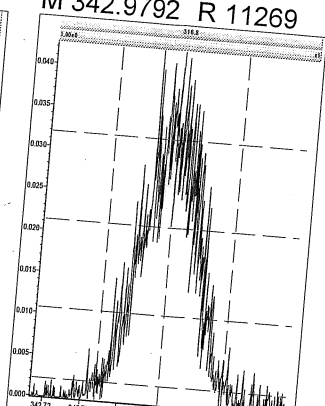


Approved by *DN* 19 JUN 09

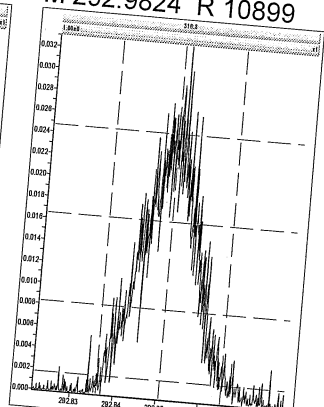
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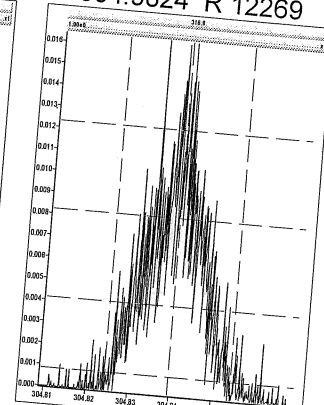
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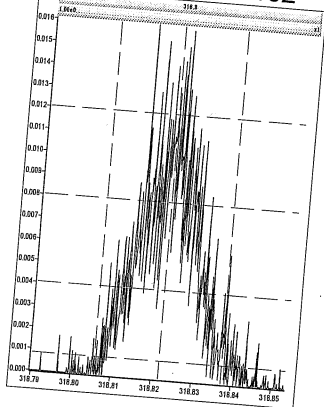
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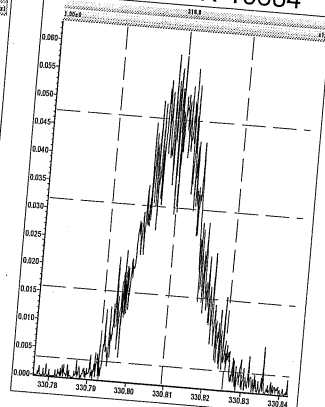
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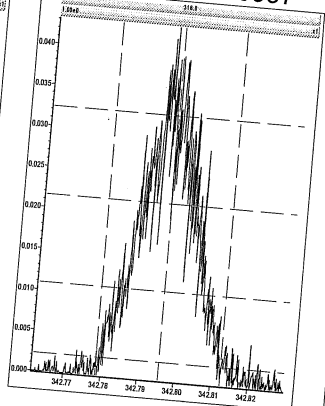
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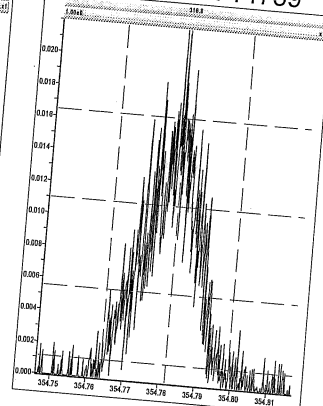
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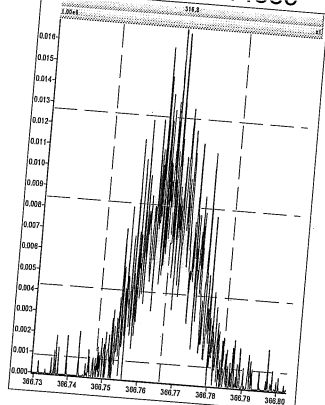
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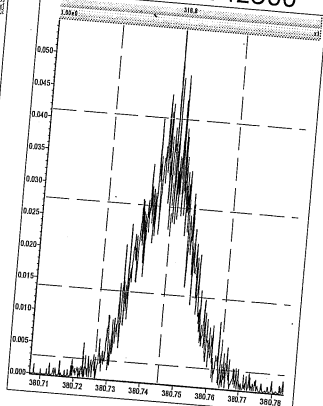
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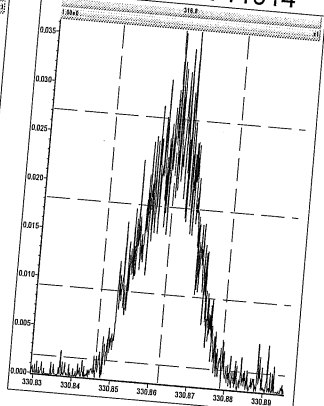
M 366.9792 R 14885



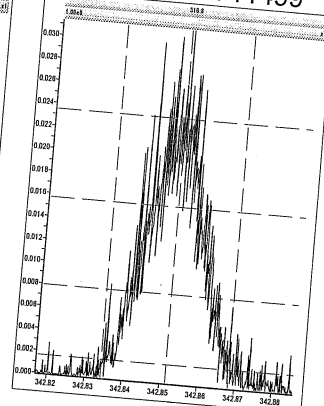
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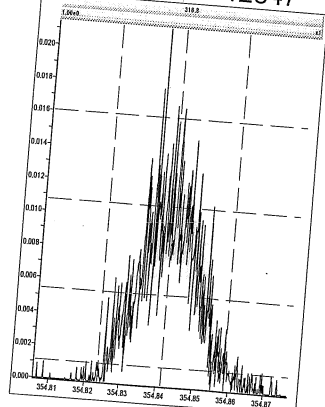
M 330.9792 R 11014



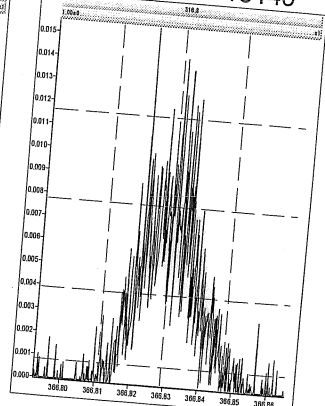
M 342.9792 R 11499



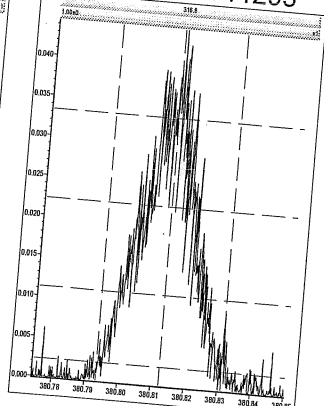
M 354.9792 R 12847



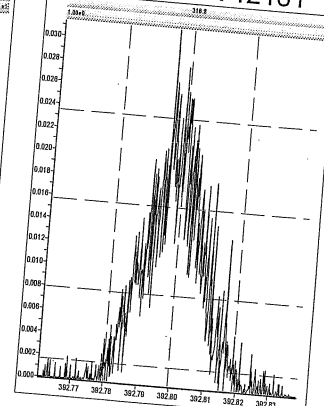
M 366.9792 R 15145



M 380.9760 R 11293



M 392.9760 R 12181

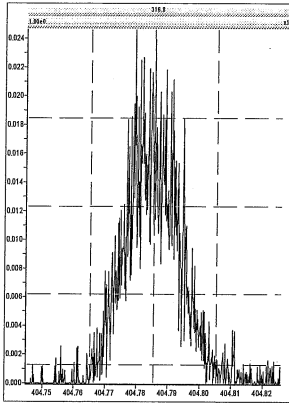


Resolution Check Report

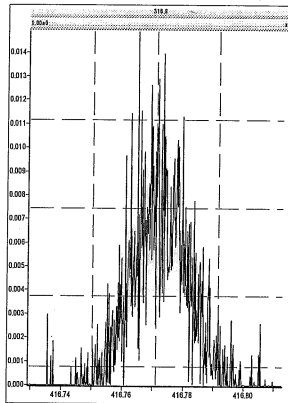
MassLynx 4.1

Printed: Friday, June 19, 2009 17:17:19 Pacific Daylight Time

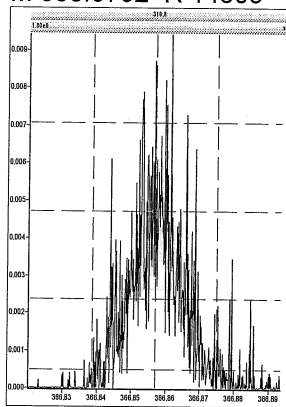
M 404.9760 R 12628



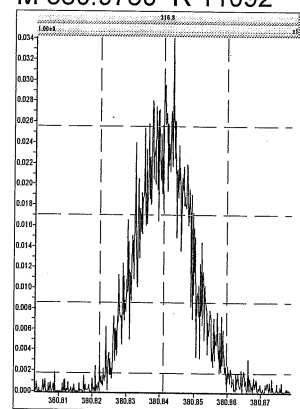
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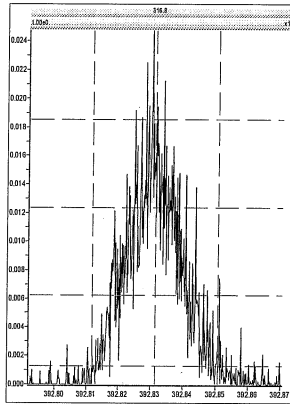
M 366.9792 R 14605



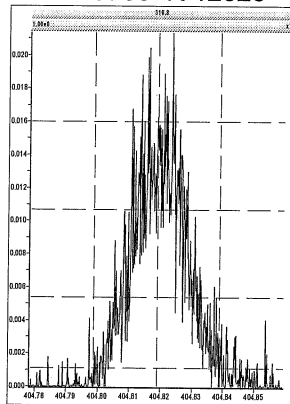
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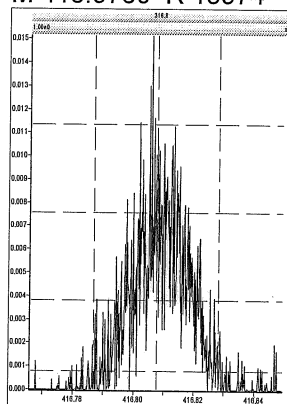
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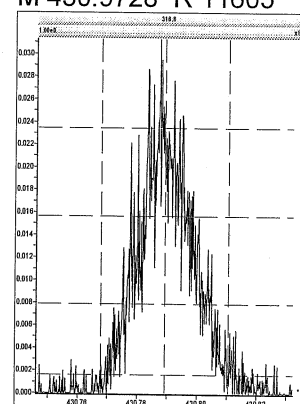
M 404.9760 R 12325



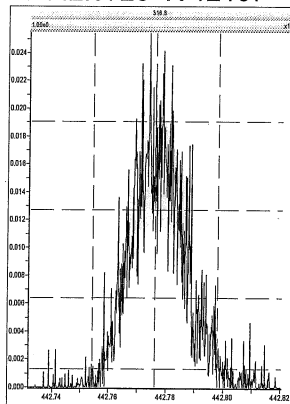
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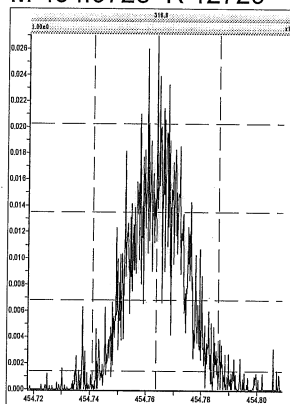
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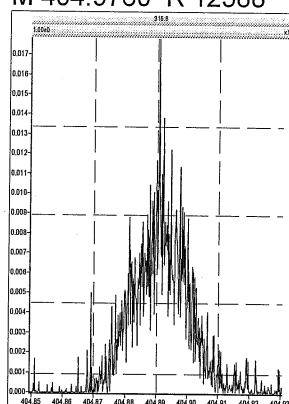
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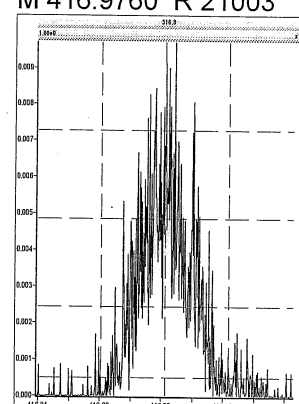
M 454.9728 R 12729



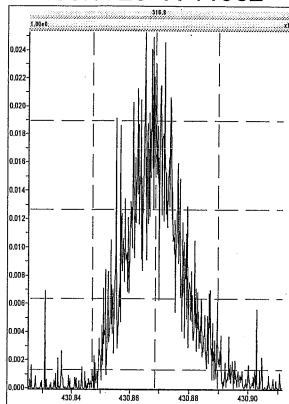
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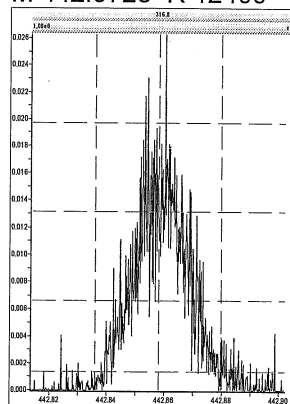
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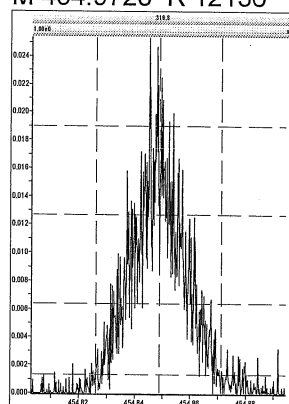
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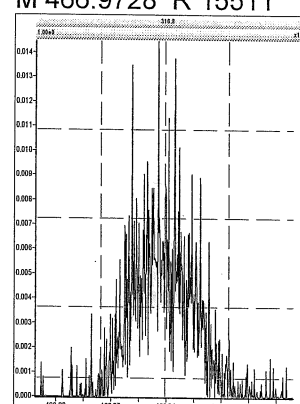
M 442.9728 R 12400



M 454.9728 R 12136

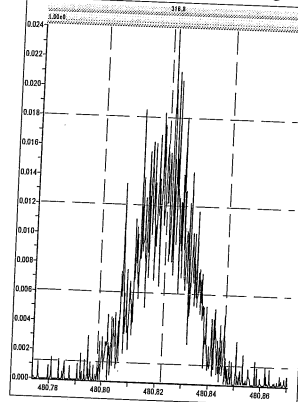


M 466.9728 R 15511

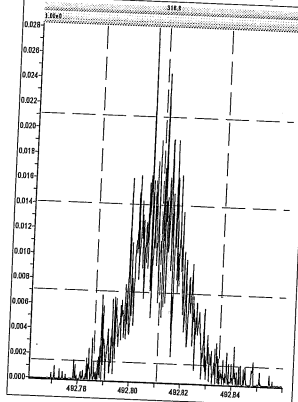


Printed: Friday, June 19, 2009 17:17:19 Pacific Daylight Time

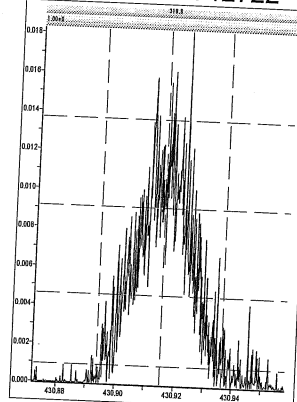
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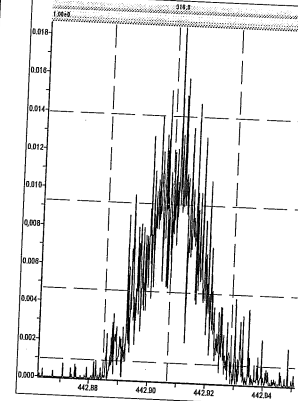
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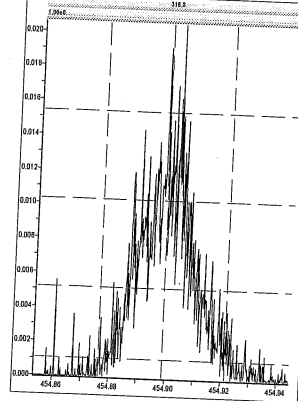
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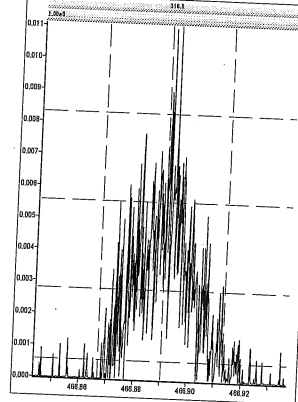
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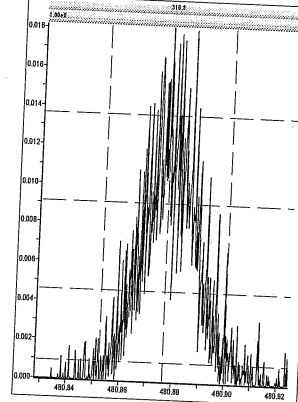
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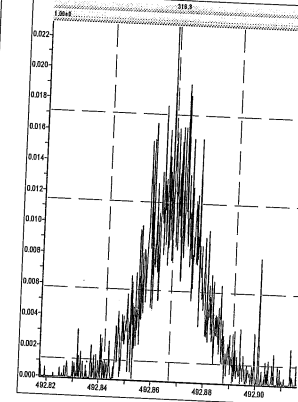
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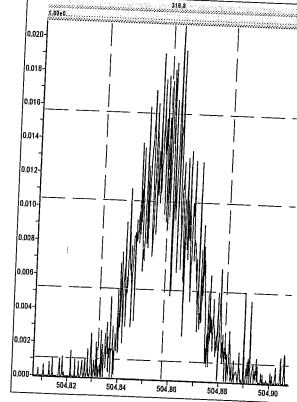
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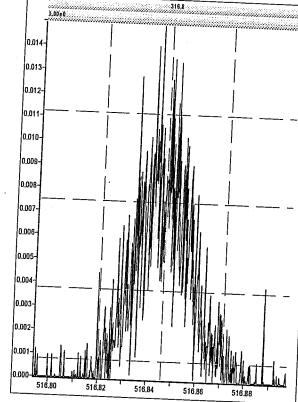
M 492.9696 R 13853



M 504.9696 R 13439



M 516.9697 R 17589



Axys Analytical Services, Ltd.

DX9M-072-B

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44

Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-A.cdb 22 Jun 2009 09:42:41

Compound name: -

#	Name	ID	Sample Text	Acq.Date	Acq.Time
1	DX9M_072S1	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	19-Jun-09	09:48:25
2	DX9M_072S2	DX036C-CAL,,/01-8	1,,1.0uL CS-2	19-Jun-09	10:40:46
3	DX9M_072S3	DX036B-CAL,,/01	1,,1.0uL CS-1	19-Jun-09	11:35:40
4	DX9M_072S6	DX036F-CAL,,/01-3	1,,1.0uL CS-5	19-Jun-09	14:20:37
5	DX9M_072S7	DX036E-CAL,,/01	1,,1.0uL CS-4	19-Jun-09	15:15:31



AXYS METHOD MLA-017 Rev 16

Form 3A
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A

CS1 Data Filename: DX9M_072 S: 3

CS2 Data Filename: DX9M_072 S: 2

CS3 Data Filename: DX9M_072 S: 1

CS4 Data Filename: DX9M_072 S: 7

CS5 Data Filename: DX9M_072 S: 6

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
2,3,7,8-TCDD			0.91	0.90	0.85	0.90	0.92	0.90	3.10
1,2,3,7,8-PECDD ³			0.87	0.87	0.89	0.87	0.89	0.88	1.22
1,2,3,4,7,8-HXCDD			0.80	0.80	0.83	0.82	0.84	0.82	2.12
1,2,3,6,7,8-HXCDD			0.74	0.75	0.76	0.77	0.78	0.76	1.89
1,2,3,7,8,9-HXCDD ⁴			0.73	0.77	0.77	0.79	0.80	0.77	3.69
1,2,3,4,6,7,8-HPCDD			0.95	0.96	0.98	0.95	0.96	0.96	1.31
OCDD			0.92	0.93	0.94	0.92	0.94	0.93	1.19
2,3,7,8-TCDF			0.77	0.77	0.79	0.74	0.75	0.77	2.60
1,2,3,7,8-PECDF			0.80	0.83	0.87	0.83	0.85	0.83	3.19
2,3,4,7,8-PECDF			0.86	0.85	0.86	0.83	0.85	0.85	1.37
1,2,3,4,7,8-HXCDF			0.93	0.97	0.99	0.94	0.99	0.96	2.96
1,2,3,6,7,8-HXCDF			0.88	0.92	0.94	0.90	0.94	0.91	2.68
1,2,3,7,8,9-HXCDF			0.81	0.81	0.78	0.80	0.85	0.81	3.08
2,3,4,6,7,8-HXCDF			0.88	0.85	0.87	0.84	0.90	0.87	2.42
1,2,3,4,6,7,8-HPCDF			1.03	1.06	1.07	1.06	1.06	1.06	1.65
1,2,3,4,7,8,9-HPCDF			0.99	0.93	0.96	0.95	0.95	0.96	2.43
OCDF ⁵			0.80	0.85	0.88	0.88	0.88	0.86	4.01

- (1) Where applicable, custom lab flags have been used on this report.
- (2) For contract CV specifications, see Section 10.5.4, Method 1613.
- (3) Alternate confirmation and quantitation ions used for native and labeled PECDD.
- (4) Response ratios are calculated relative to the labeled analogs of the other two HXCDDs (Section 17.1.2, Method 1613).
- (5) Response ratios are calculated relative to the labeled analog of OCDD (Section 17.1.1, Method 1613).

Approved by: _____ Robert Tones _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 3B
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Initial Calibration Date: 19-Jun-2009

CS0 Data Filename: N/A
CS1 Data Filename: DX9M_072 S: 3
CS2 Data Filename: DX9M_072 S: 2
CS3 Data Filename: DX9M_072 S: 1
CS4 Data Filename: DX9M_072 S: 7
CS5 Data Filename: DX9M_072 S: 6
CS6 Data Filename: N/A

Instrument ID: HR GC/MS
GC Column ID: DB5

LABELED COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
13C-2,3,7,8-TCDD			1.03	1.06	1.07	1.11	1.18	1.09	5.15
13C-1,2,3,7,8-PECDD ³			0.64	0.65	0.64	0.74	0.86	0.71	13.5
13C-1,2,3,4,7,8-HXCDD			0.96	0.97	0.95	0.99	0.99	0.98	1.89
13C-1,2,3,6,7,8-HXCDD			1.15	1.17	1.14	1.12	1.11	1.14	1.97
13C-1,2,3,4,6,7,8-HPCDD			0.94	0.87	0.83	0.79	0.85	0.85	6.40
13C-OCDD			1.06	1.00	0.99	0.89	0.92	0.97	6.98
13C-2,3,7,8-TCDF			1.37	1.39	1.42	1.43	1.48	1.42	3.09
13C-1,2,3,7,8-PECDF			0.89	0.93	0.93	1.02	1.18	0.99	11.7
13C-2,3,4,7,8-PECDF			0.87	0.88	0.94	1.00	1.13	0.96	10.8
13C-1,2,3,4,7,8-HXCDF			1.02	1.04	1.02	1.03	0.99	1.02	1.80
13C-1,2,3,6,7,8-HXCDF			1.20	1.26	1.07	1.22	1.17	1.19	6.09
13C-1,2,3,7,8,9-HXCDF			1.02	1.01	1.01	1.04	1.00	1.02	1.28
13C-2,3,4,6,7,8-HXCDF			1.08	1.12	1.09	1.10	1.05	1.09	2.17
13C-1,2,3,4,6,7,8-HPCDF			0.85	0.83	0.84	0.76	0.80	0.82	4.60
13C-1,2,3,4,7,8,9-HPCDF			0.77	0.78	0.77	0.70	0.73	0.75	4.52
CLEANUP									
37CL-2,3,7,8-TCDD			1.18	1.18	1.13	1.19	1.29	1.19	4.87

(1) Where applicable, custom lab flags have been used on this report.
(2) For contract CV specifications, see Section 10.5.4, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Robert Tones _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 3C
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A
CS1 Data Filename: DX9M_072 S: 3
CS2 Data Filename: DX9M_072 S: 2
CS3 Data Filename: DX9M_072 S: 1
CS4 Data Filename: DX9M_072 S: 7
CS5 Data Filename: DX9M_072 S: 6
CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO						QC LIMITS ³
			CS0	CS1	CS2	CS3	CS4	CS5	
2,3,7,8-TCDD		M/M+2		0.74	0.77	0.76	0.75	0.75	0.65-0.89
1,2,3,7,8-PECDD ⁴		M/M+2		0.56	0.61	0.61	0.62	0.61	0.51-0.70
1,2,3,4,7,8-HXCDD		M+2/M+4		1.28	1.21	1.21	1.22	1.22	1.05-1.43
1,2,3,6,7,8-HXCDD		M+2/M+4		1.15	1.25	1.23	1.23	1.21	1.05-1.43
1,2,3,7,8,9-HXCDD		M+2/M+4		1.18	1.22	1.21	1.22	1.20	1.05-1.43
1,2,3,4,6,7,8-HPCDD		M+2/M+4		1.01	1.02	1.04	1.04	1.02	0.88-1.20
OCDD		M+2/M+4		0.92	0.90	0.88	0.87	0.87	0.76-1.02
2,3,7,8-TCDF		M/M+2		0.72	0.71	0.74	0.74	0.74	0.65-0.89
1,2,3,7,8-PECDF		M+2/M+4		1.58	1.45	1.48	1.47	1.49	1.32-1.78
2,3,4,7,8-PECDF		M+2/M+4		1.42	1.49	1.47	1.46	1.46	1.32-1.78
1,2,3,4,7,8-HXCDF		M+2/M+4		1.19	1.19	1.17	1.18	1.20	1.05-1.43
1,2,3,6,7,8-HXCDF		M+2/M+4		1.10	1.20	1.18	1.19	1.18	1.05-1.43
1,2,3,7,8,9-HXCDF		M+2/M+4		1.24	1.16	1.18	1.19	1.20	1.05-1.43
2,3,4,6,7,8-HXCDF		M+2/M+4		1.14	1.18	1.18	1.18	1.21	1.05-1.43
1,2,3,4,6,7,8-HPCDF		M+2/M+4		0.95	0.96	0.98	0.98	0.96	0.88-1.20
1,2,3,4,7,8,9-HPCDF		M+2/M+4		0.95	0.98	0.97	0.99	0.98	0.88-1.20
OCDF		M+2/M+4		0.84	0.88	0.87	0.86	0.88	0.76-1.02

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits from Table 9, Method 1613.
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Robert Tones _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 3D
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Initial Calibration Date: 19-Jun-2009

CS0 Data Filename: N/A
CS1 Data Filename: DX9M_072 S: 3
CS2 Data Filename: DX9M_072 S: 2
CS3 Data Filename: DX9M_072 S: 1
CS4 Data Filename: DX9M_072 S: 7
CS5 Data Filename: DX9M_072 S: 6
CS6 Data Filename: N/A

Instrument ID: HR GC/MS

GC Column ID: DB5

LABELED COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO						QC LIMITS ³
			CS0	CS1	CS2	CS3	CS4	CS5	
13C-2,3,7,8-TCDD		M/M+2	0.78	0.81	0.79	0.78	0.78		0.65-0.89
13C-1,2,3,7,8-PECDD ⁴		M/M+2	0.61	0.62	0.61	0.62	0.63		0.51-0.70
13C-1,2,3,4,7,8-HXCDD		M+2/M+4	1.24	1.23	1.27	1.26	1.26		1.05-1.43
13C-1,2,3,6,7,8-HXCDD		M+2/M+4	1.24	1.22	1.24	1.24	1.25		1.05-1.43
13C-1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.01	1.05	1.03	1.04	1.03		0.88-1.20
13C-OCDD		M+2/M+4	0.87	0.89	0.90	0.89	0.88		0.76-1.02
13C-2,3,7,8-TCDF		M/M+2	0.77	0.76	0.77	0.75	0.76		0.65-0.89
13C-1,2,3,7,8-PECDF		M+2/M+4	1.54	1.52	1.49	1.54	1.55		1.32-1.78
13C-2,3,4,7,8-PECDF		M+2/M+4	1.54	1.50	1.53	1.51	1.52		1.32-1.78
13C-1,2,3,4,7,8-HXCDF		M/M+2	0.50	0.50	0.50	0.50	0.50		0.43-0.59
13C-1,2,3,6,7,8-HXCDF		M/M+2	0.51	0.51	0.49	0.50	0.51		0.43-0.59
13C-1,2,3,7,8,9-HXCDF		M/M+2	0.50	0.51	0.50	0.50	0.52		0.43-0.59
13C-2,3,4,6,7,8-HXCDF		M/M+2	0.51	0.50	0.50	0.51	0.50		0.43-0.59
13C-1,2,3,4,6,7,8-HPCDF		M/M+2	0.44	0.44	0.44	0.44	0.44		0.37-0.51
13C-1,2,3,4,7,8,9-HPCDF		M/M+2	0.44	0.43	0.44	0.44	0.44		0.37-0.51

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits from Table 9, Method 1613.
- (4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Robert Tones _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Instrument ID:	HR GC/MS	Initial Calibration Date:	19-Jun-2009
RT Window Data Filename:	DX9M_072 S: 1	Analysis Date:	19-Jun-2009
DB-5 IS Data Filename:	DX9M_072 S: 1	Analysis Date:	19-Jun-2009
DB-225 IS Data Filename:		Analysis Date:	
		Time:	09:48:25
		Time:	09:48:25
		Time:	

DB5 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:59	1,3,6,8-TCDF (F)	21:26
1,2,8,9-TCDD (L)	28:22	1,2,8,9-TCDF (L)	28:13
1,2,4,7,9-PECDD (F)	32:10	1,3,4,6,8-PECDF (F)	28:56
1,2,3,8,9-PECDD (L)	37:08	1,2,3,8,9-PECDF (L)	37:11
1,2,4,6,7,9-HXCDD (F)	40:06	1,2,3,4,6,8-HXCDF (F)	39:04
1,2,3,4,6,7-HXCDD (L)	42:44	1,2,3,4,8,9-HXCDF (L)	43:04
1,2,3,4,6,7,9-HPCDD (F)	45:49	1,2,3,4,6,7,8-HPCDF (F)	45:21
1,2,3,4,6,7,8-HPCDD (L)	46:44	1,2,3,4,7,8,9-HPCDF (L)	47:08

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	0	1,2,3,8-TCDD 2,3,7,8-TCDD	13.2
1,2,7,8-TCDD 1,4,7,8-TCDD	0	2,3,4,7-TCDF 2,3,7,8-TCDF	N/A
1,4,7,8-TCDD 1,2,3,7-TCDD	0	2,3,7,8-TCDF 1,2,3,9-TCDF	N/A
1,2,3,7-TCDD 1,2,3,8-TCDD	DB-5 column; co-elute as per Figure 6 in Method		

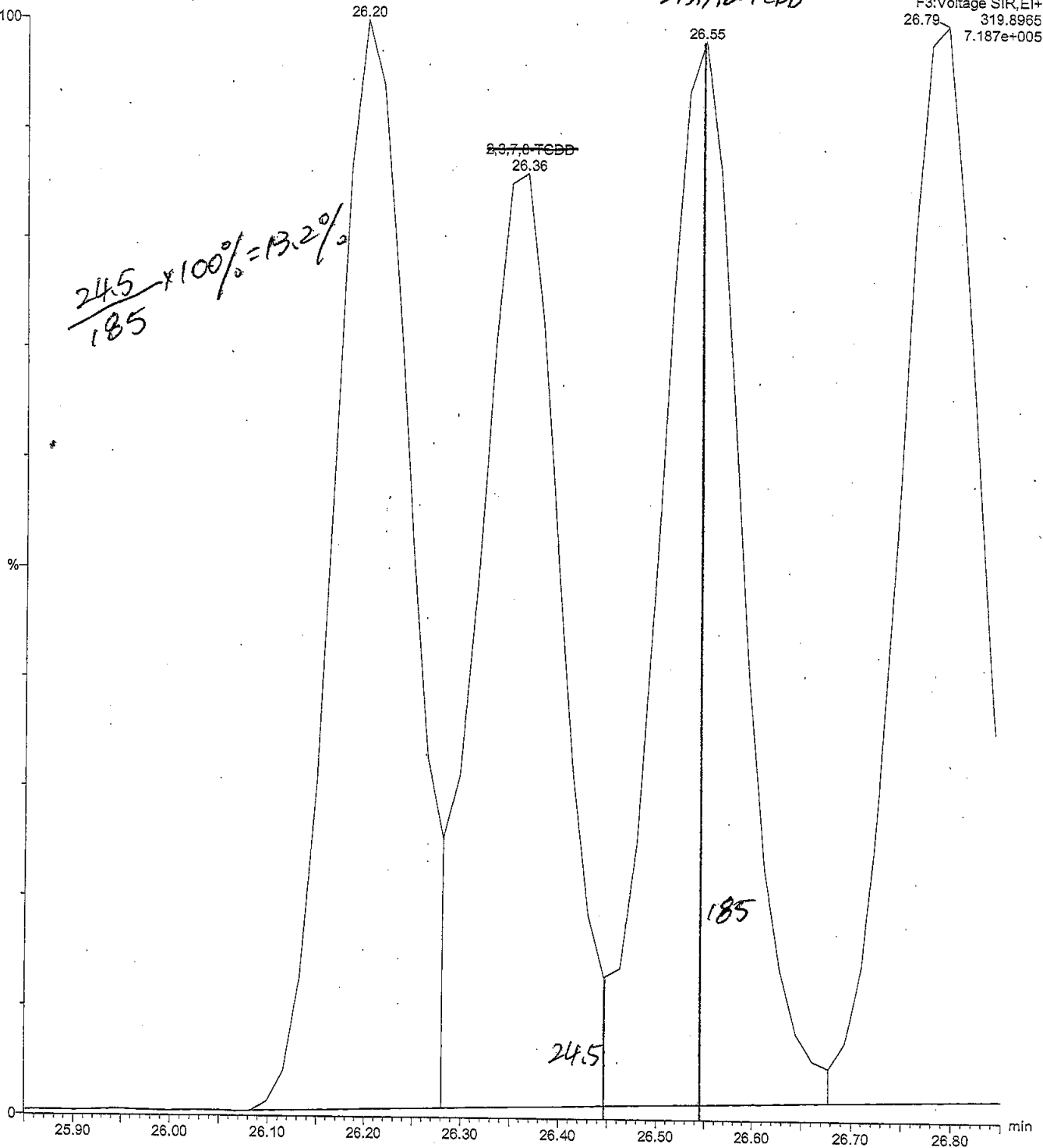
Approved by: _____ Laura Luo _____ QA/QC Chemist

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_Win_ResB.mdb 30 Mar 2009 11:50:48
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-A.cdb 22 Jun 2009 09:42:41

Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

2,3,7,8-TCDD

DX9M_072S1 Smooth(SG,1x2)



Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44

Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Compound name: -

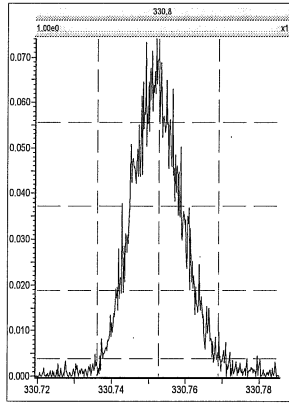
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2	DX9M_082ES2	WG29072-102,,I,SPM	1,WG29072,1.0/20uL	08-Jul-09	21:00:57
3	DX9M_082ES3	DX020B-SUR,,/06	1,,1.0uL Inst Blank	08-Jul-09	21:52:58
4	DX9M_082ES4	DX020B-SUR,,/06	1,,1.0uL Inst Blank	08-Jul-09	22:47:53
5	DX9M_082ES5	WG29072-101,,Blank	1,WG29072,1.0/20uL	08-Jul-09	23:42:51
6	DX9M_082ES6	L12698-12,,	1,WG29072,1.0/20uL	09-Jul-09	00:37:47
7	DX9M_082ES7	WG29072-103,,Dup	1,WG29072,1.0/20uL	09-Jul-09	01:32:44
8	DX9M_082ES8	L12698-14,,	1,WG29072,1.0/20uL	09-Jul-09	02:27:40
9	DX9M_082ES9	L12698-15,,	1,WG29072,1.0/20uL	09-Jul-09	03:22:37
10	DX9M_082ES10	L12698-16,,	1,WG29072,1.0/20uL	09-Jul-09	04:17:34
11	DX9M_082ES11	L12698-17,,	1,WG29072,1.0/20uL	09-Jul-09	05:12:29
12	DX9M_082ES12	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	09-Jul-09	06:07:27
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14	DX9M_082ES14	DX020B-SUR,,/06	1,,1.0uL Inst Blank	09-Jul-09	08:06:38
15	DX9M_082ES15	L12698-18,,	1,WG29072,1.0/20uL	09-Jul-09	09:01:35
16	DX9M_082ES16	L12698-19,,	1,WG29072,1.0/20uL	09-Jul-09	09:56:31
17	DX9M_082ES17	L12698-20,,	1,WG29072,1.0/20uL	09-Jul-09	10:51:28
18	DX9M_082ES18	L12698-21,,	1,WG29072,1.0/20uL	09-Jul-09	11:46:25
19	DX9M_082ES19	L12698-22,,	1,WG29072,1.0/20uL	09-Jul-09	12:41:21
20	DX9M_082ES20	L12698-23,,	1,WG29072,1.0/20uL	09-Jul-09	13:36:17
21	DX9M_082ES21	L12698-24,,	1,WG29072,1.0/20uL	09-Jul-09	14:31:15
22	DX9M_082ES22	L12698-25,,	1,WG29072,1.0/20uL	09-Jul-09	15:26:11
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24	DX9M_082ES24	WG29271-102,,I,SPM	1,WG29271,1.0/20uL	09-Jul-09	17:28:01
25	DX9M_082ES25	DX020B-SUR,,/06	1,,1.0uL Inst Blank	09-Jul-09	18:20:22
26	DX9M_082ES26	DX020B-SUR,,/06	1,,1.0uL Inst Blank	09-Jul-09	19:15:18
27	DX9M_082ES27	WG29271-101,,Blank	1,WG29271,1.0/20uL	09-Jul-09	20:10:20
28	DX9M_082ES28	L12912-1,,	1,WG29271,1.0/20uL	09-Jul-09	21:05:17
29	DX9M_082ES29	L12912-2,,	1,WG29271,1.0/20uL	09-Jul-09	22:00:14
30	DX9M_082ES30	L12912-3,,	1,WG29271,1.0/20uL	09-Jul-09	22:55:10
31	DX9M_082ES31	L12912-4,,	1,WG29271,1.0/20uL	09-Jul-09	23:50:07
32	DX9M_082ES32	L12912-5,,	1,WG29271,1.0/20uL	10-Jul-09	00:45:03
33	DX9M_082ES33	L12912-6,,	1,WG29271,1.0/20uL	10-Jul-09	01:40:00
34	DX9M_082ES34	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	02:34:57
35	DX9M_082ES35	WG29103-102,,SPM	1,WG29103,1.0/20uL	10-Jul-09	03:41:44
36	DX9M_082ES36	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	04:34:05
37	DX9M_082ES37	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	05:29:01
38	DX9M_082ES38	WG29103-101,,Blank	1,WG29103,1.0/20uL	10-Jul-09	06:23:59
39	DX9M_082ES39				
40	DX9M_082ES40				
41	DX9M_082ES41				
42	DX9M_082ES42				
43	DX9M_082ES43				
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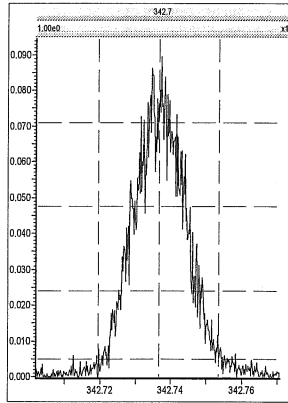
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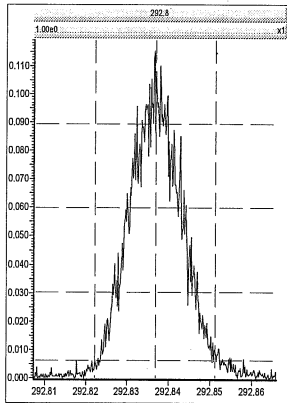
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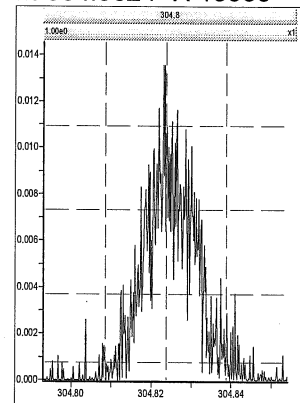
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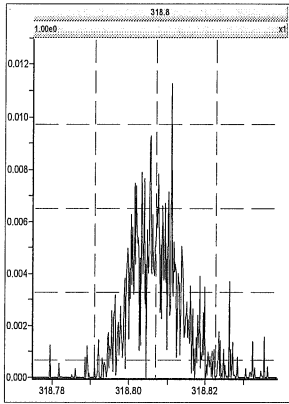
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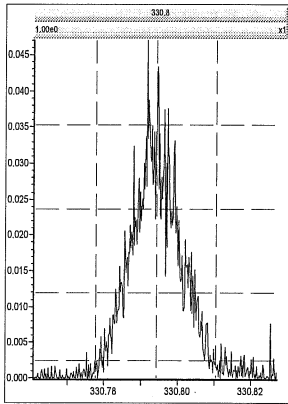
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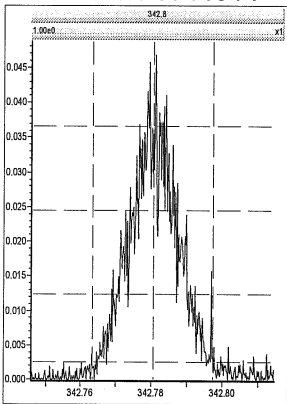
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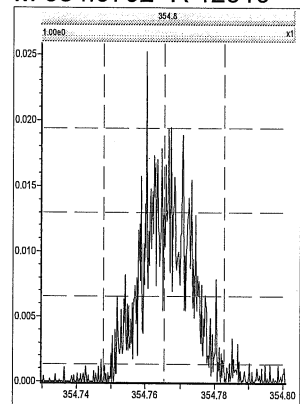
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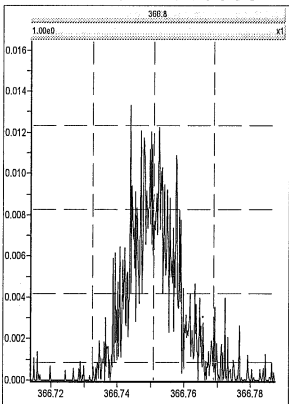
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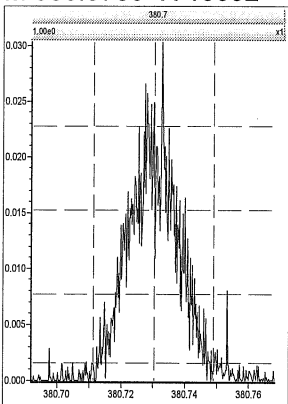
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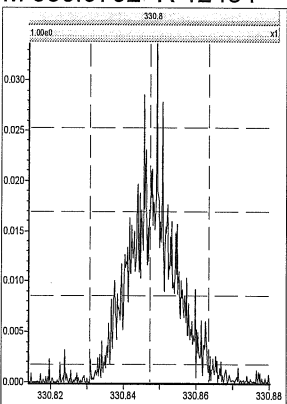
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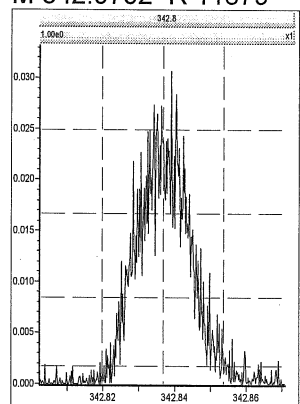
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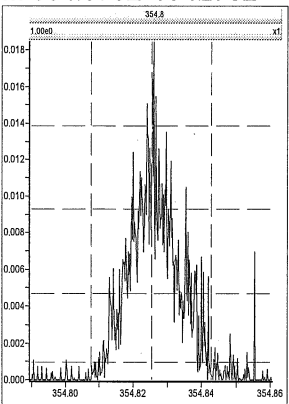
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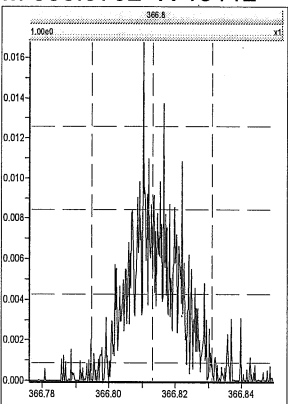
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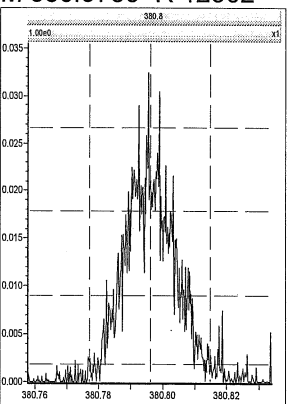
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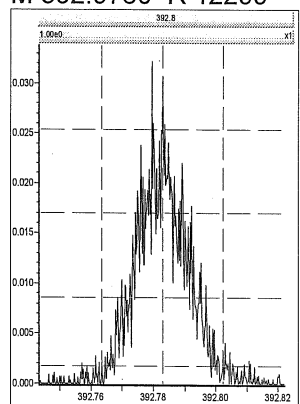
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M 380.9760 R 12502



M 392.9760 R 12299

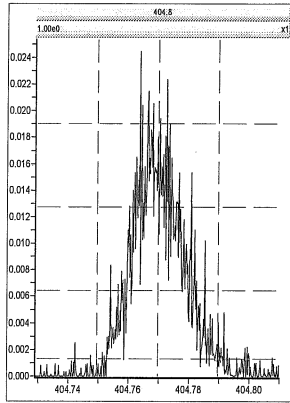


Resolution Check Report

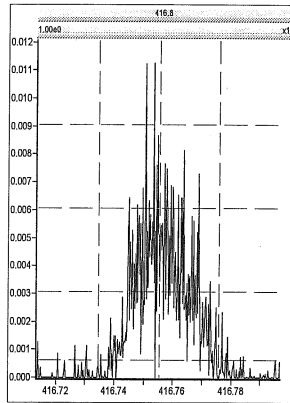
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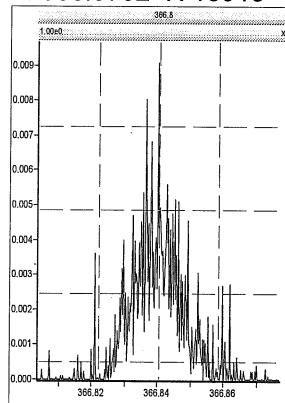
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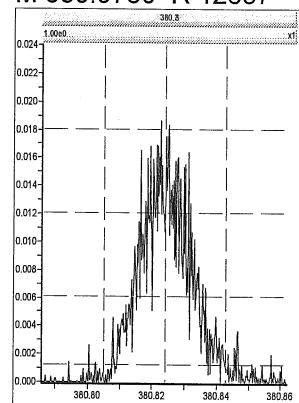
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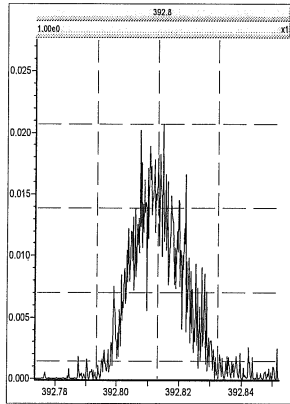
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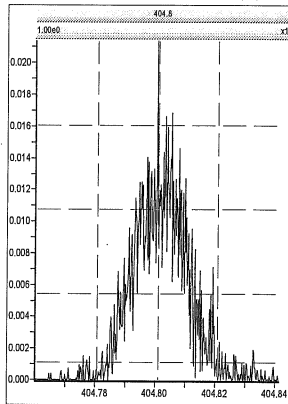
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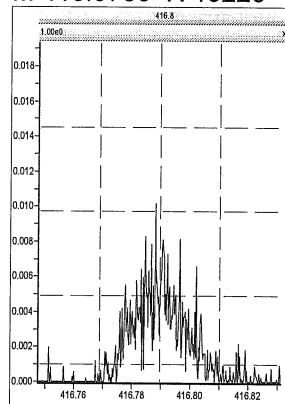
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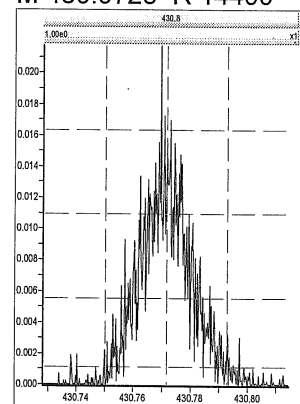
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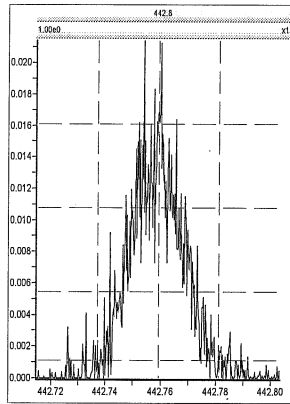
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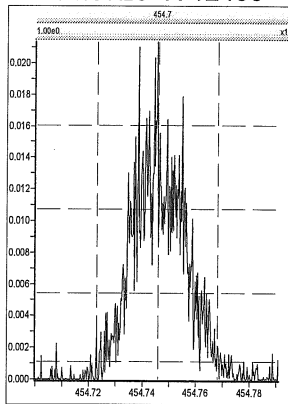
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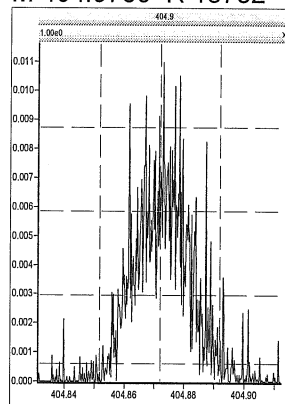
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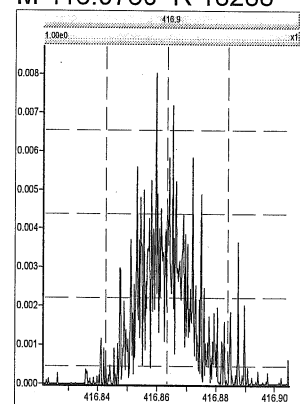
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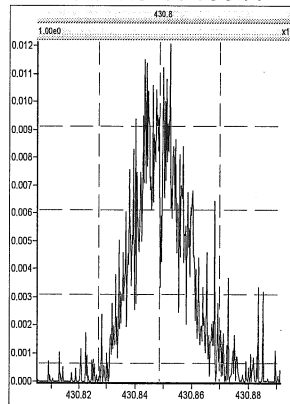
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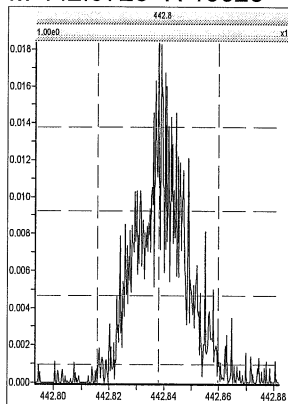
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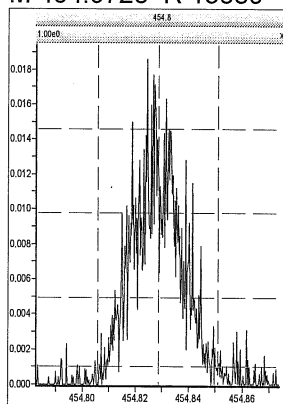
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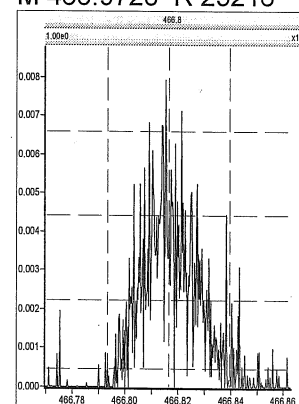
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M 454.9728 R 13889



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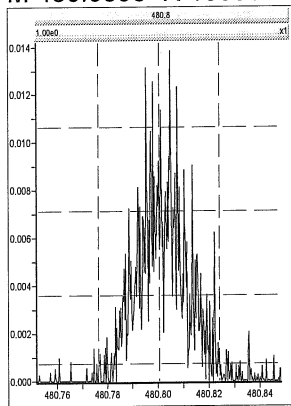


Resolution Check Report

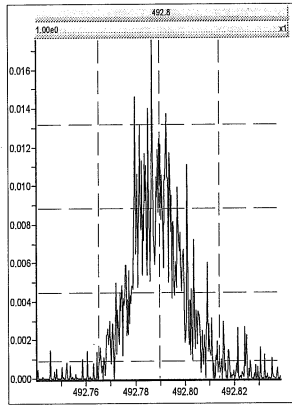
MassLynx 4.1

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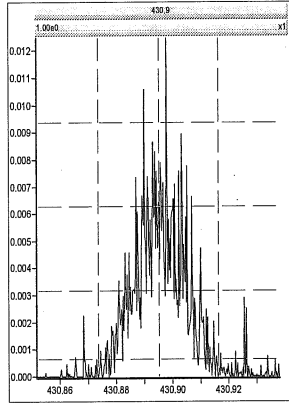
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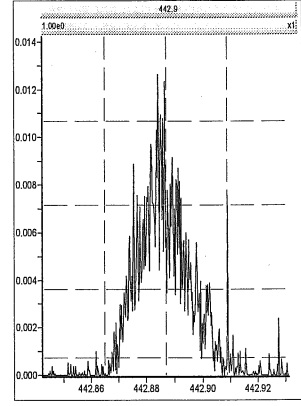
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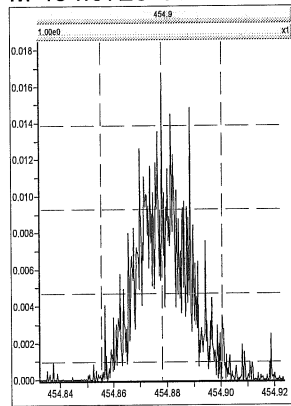
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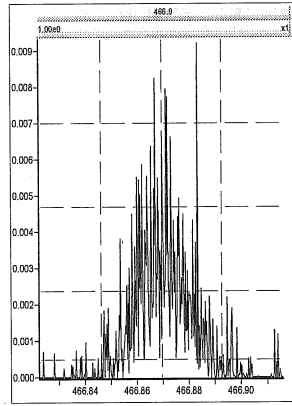
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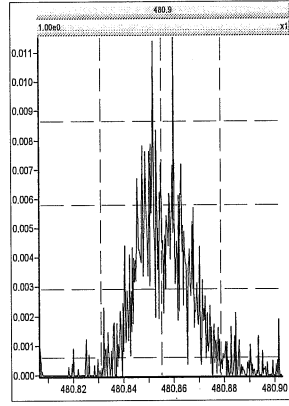
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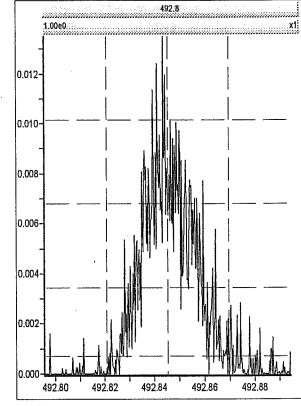
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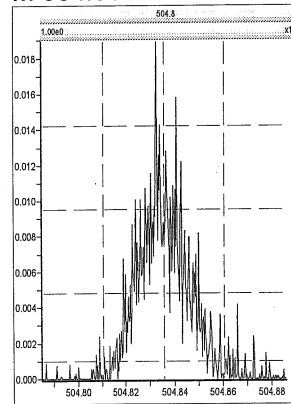
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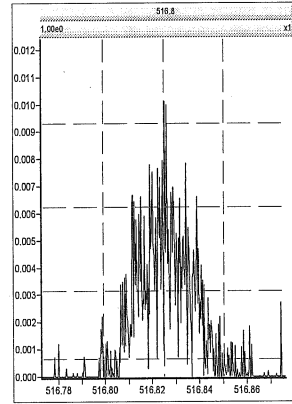
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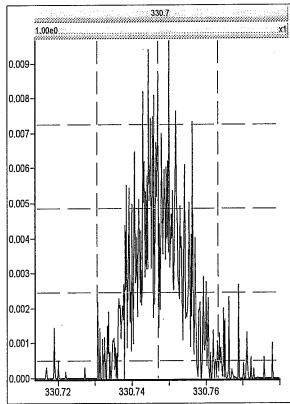
Resolution Check Report

Printed:

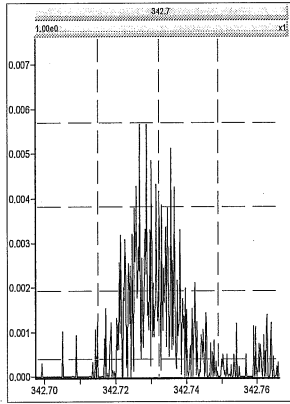
Friday, July 10, 2009 03:41:39 Pacific Daylight Time

approved by R 10 JUL 09

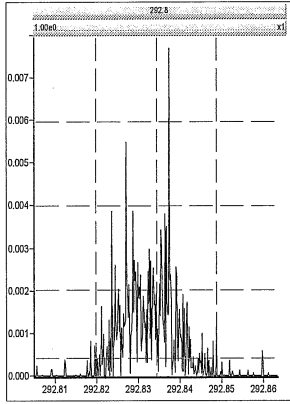
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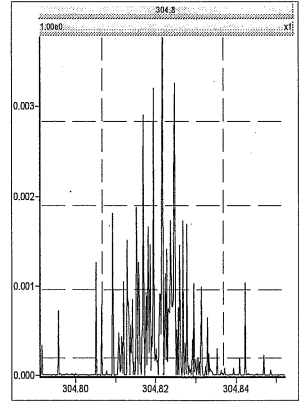
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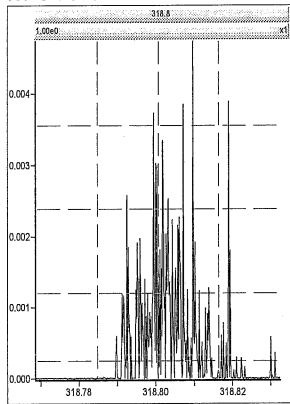
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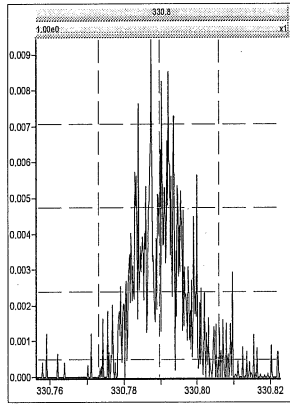
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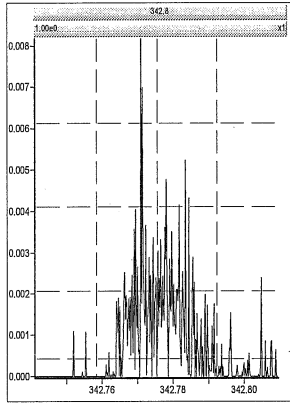
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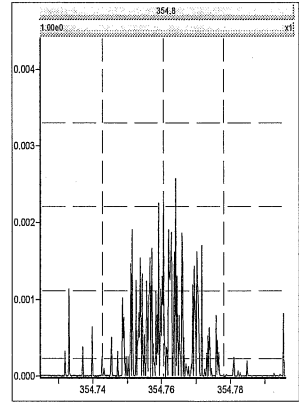
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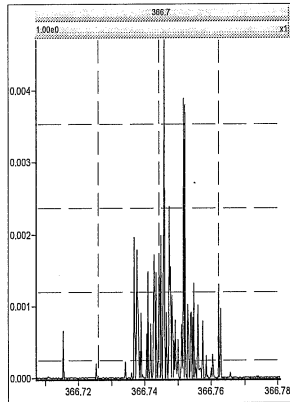
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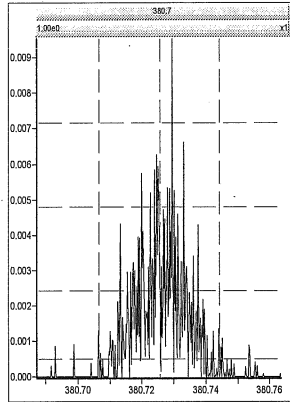
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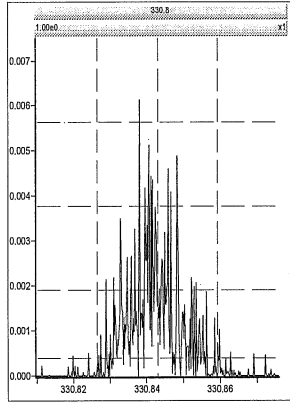
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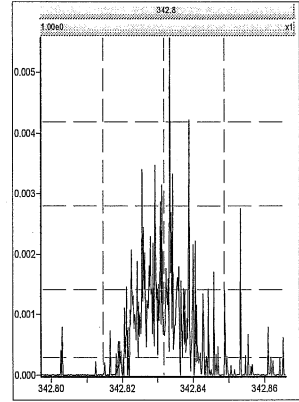
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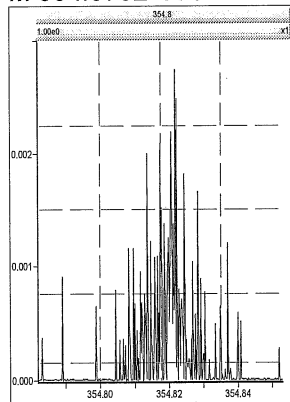
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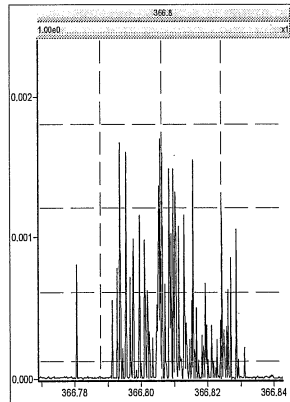
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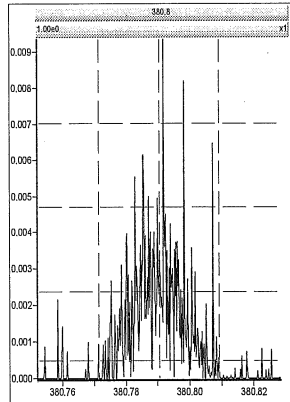
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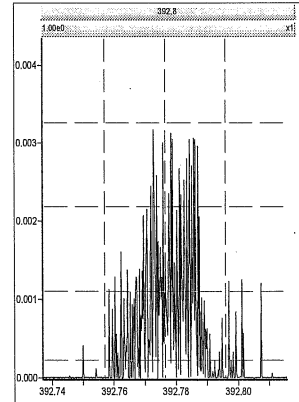
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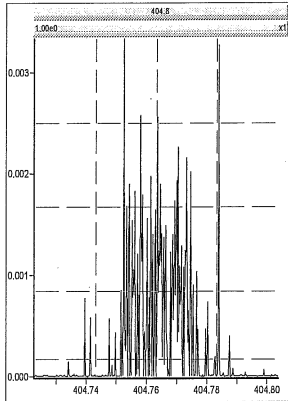
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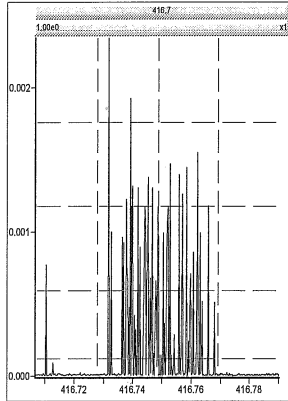
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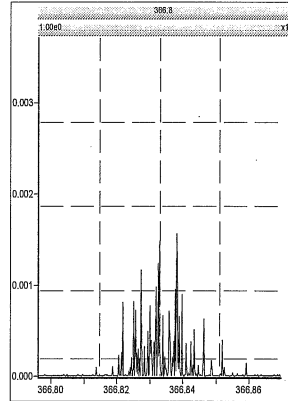
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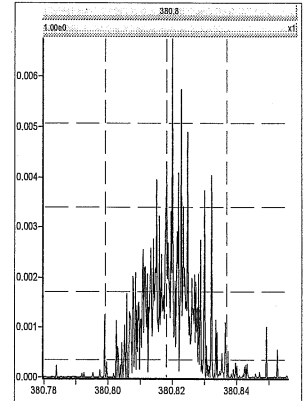
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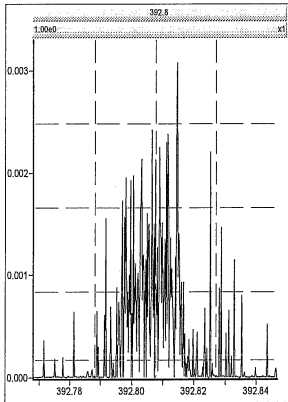
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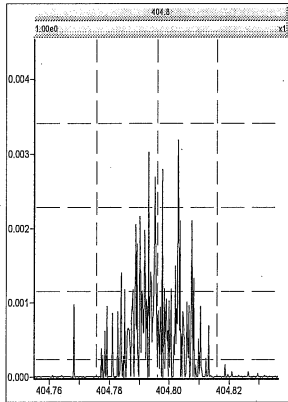
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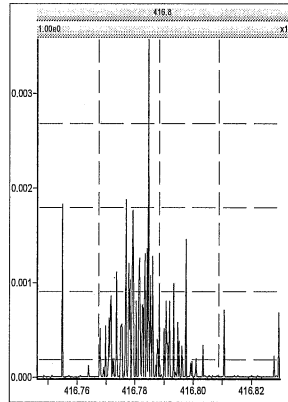
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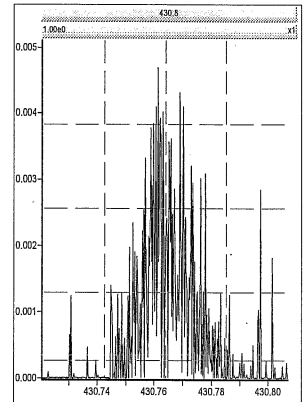
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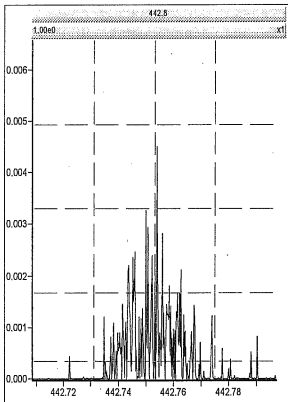
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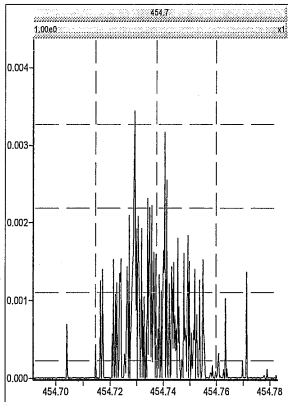
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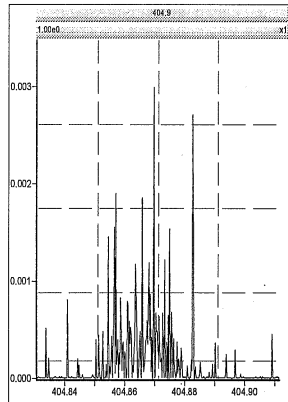
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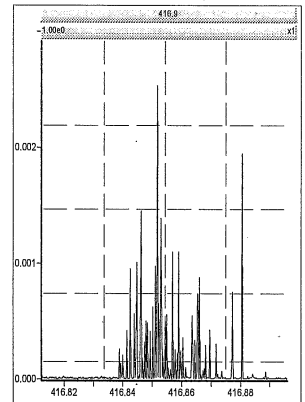
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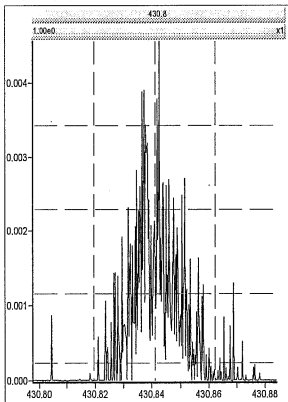
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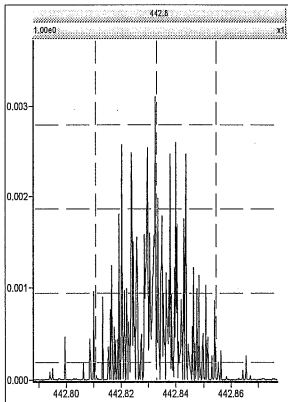
M 416.9760 R 0 ✓



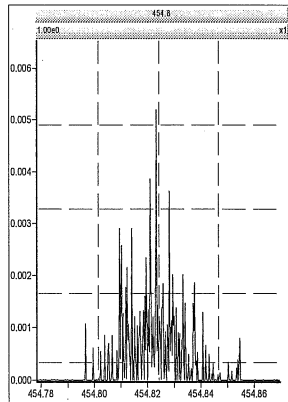
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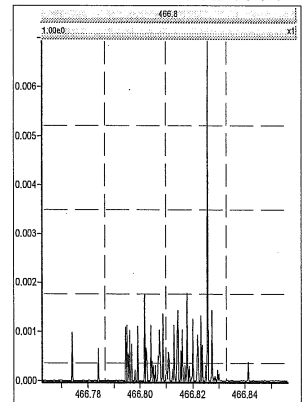
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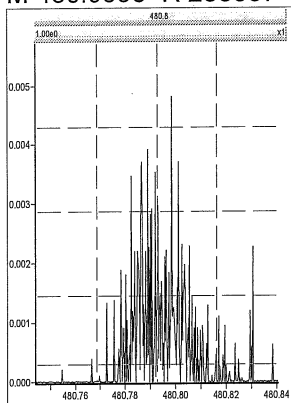


Resolution Check Report

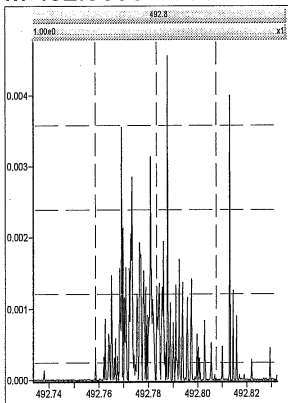
MassLynx 4.1

Printed: Friday, July 10, 2009 03:41:39 Pacific Daylight Time

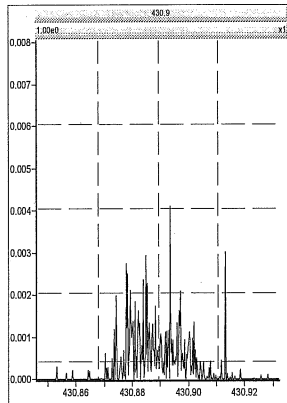
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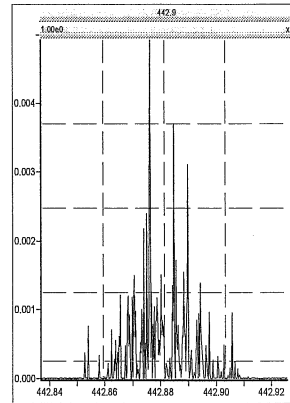
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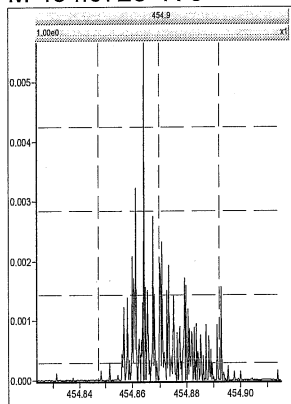
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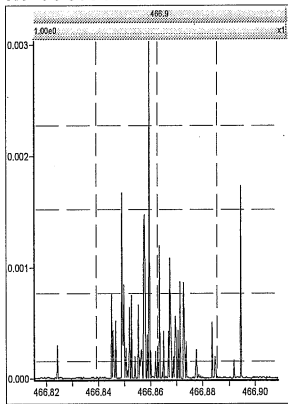
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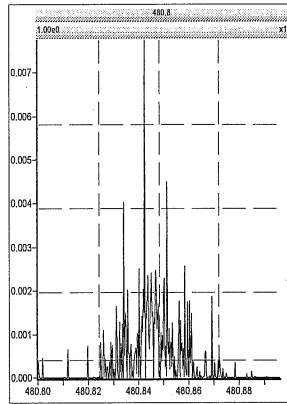
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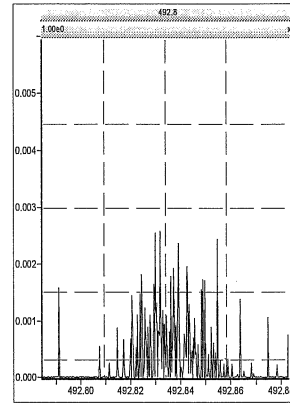
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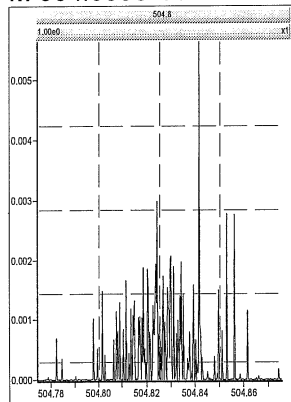
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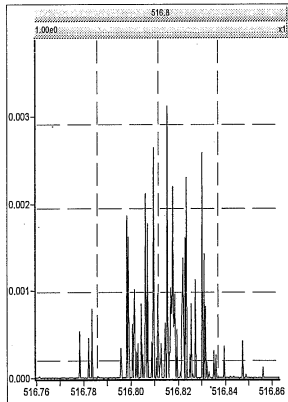
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M 504.9696 R 178571



M 516.9697 R 125009



Axys Analytical Services, Ltd.

AX9M-082E-C

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44

Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Compound name: -

#	Name	ID	Sample Text	Acq Date	Acq Time
1	DX9M_082ES23	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	09-Jul-09	16:21:15
2	DX9M_082ES24	WG29271-102,,I,SPM	1,WG29271,1.0/20uL	09-Jul-09	17:28:01
3	DX9M_082ES25	DX020B-SUR,,/06	1,,1.0uL Inst Blank	09-Jul-09	18:20:22
4	DX9M_082ES26	DX020B-SUR,,/06	1,,1.0uL Inst Blank	09-Jul-09	19:15:18
5	DX9M_082ES29	L12912-2,,	1,WG29271,1.0/20uL	09-Jul-09	22:00:14
6	DX9M_082ES34	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	02:34:57



AXYS METHOD MLA-017 Rev 16

Form 4A
PCDD/PCDF CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009 VER Data Filename: DX9M_082E S: 23
Instrument ID: HR GC/MS Analysis Date: 09-Jul-2009
GC Column ID: DB5 Analysis Time: 16:21:15

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
2,3,7,8-TCDD		M/M+2	0.76	0.65-0.89	10.3	8.6 - 14.2
1,2,3,7,8-PECDD ⁵		M/M+2	0.61	0.51-0.70	51.3	41 - 67.6
1,2,3,4,7,8-HXCDD		M+2/M+4	1.22	1.05-1.43	56.2	44 - 72.3
1,2,3,6,7,8-HXCDD		M+2/M+4	1.23	1.05-1.43	56.1	43 - 71
1,2,3,7,8,9-HXCDD		M+2/M+4	1.20	1.05-1.43	57.3	44 - 65.9
1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.01	0.88-1.20	47.9	41 - 55.1
OCDD		M+2/M+4	0.85	0.76-1.02	99.8	79 - 126
2,3,7,8-TCDF		M/M+2	0.74	0.65-0.89	11.4	9 - 12.8
1,2,3,7,8-PECDF		M+2/M+4	1.50	1.32-1.78	50.5	38 - 55.2
2,3,4,7,8-PECDF		M+2/M+4	1.50	1.32-1.78	49.2	39 - 57.3
1,2,3,4,7,8-HXCDF		M+2/M+4	1.20	1.05-1.43	53.3	45 - 56
1,2,3,6,7,8-HXCDF		M+2/M+4	1.20	1.05-1.43	51.6	42 - 54.2
1,2,3,7,8,9-HXCDF		M+2/M+4	1.20	1.05-1.43	53.0	47 - 58.8
2,3,4,6,7,8-HXCDF		M+2/M+4	1.21	1.05-1.43	54.9	47 - 60.4
1,2,3,4,6,7,8-HPCDF		M+2/M+4	0.99	0.88-1.20	54.4	45 - 55
1,2,3,4,7,8,9-HPCDF		M+2/M+4	1.01	0.88-1.20	53.9	43 - 58
OCDF		M+2/M+4	0.87	0.76-1.02	109	66 - 165

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.
- (5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Laura Luo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 4B
PCDD/PCDF CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009

VER Data Filename: DX9M_082E S: 23

Instrument ID: HR GC/MS

Analysis Date: 09-Jul-2009

GC Column ID: DB5

Analysis Time: 16:21:15

LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴	
LABELLED COMPOUND						
	13C-2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	103	82 - 121
	13C-1,2,3,7,8-PECDD ⁵	M/M+2	0.62	0.51-0.70	110	62 - 160
	13C-1,2,3,4,7,8-HXCDD	M+2/M+4	1.26	1.05-1.43	95.8	85 - 117
	13C-1,2,3,6,7,8-HXCDD	M+2/M+4	1.25	1.05-1.43	93.6	85 - 118
	13C-1,2,3,4,6,7,8-HPCDD	M+2/M+4	1.01	0.88-1.20	91.3	72 - 138
	13C-OCDD	M+2/M+4	0.89	0.76-1.02	145	96 - 415
	13C-2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	104	71 - 140
	13C-1,2,3,7,8-PECDF	M+2/M+4	1.53	1.32-1.78	106	76 - 130
	13C-2,3,4,7,8-PECDF	M+2/M+4	1.51	1.32-1.78	106	77 - 130
	13C-1,2,3,4,7,8-HXCDF	M/M+2	0.51	0.43-0.59	96.7	76 - 131
	13C-1,2,3,6,7,8-HXCDF	M/M+2	0.51	0.43-0.59	94.7	70 - 143
	13C-1,2,3,7,8,9-HXCDF	M/M+2	0.51	0.43-0.59	94.9	74 - 135
	13C-2,3,4,6,7,8-HXCDF	M/M+2	0.51	0.43-0.59	95.2	73 - 137
	13C-1,2,3,4,6,7,8-HPCDF	M/M+2	0.44	0.37-0.51	94.5	78 - 129
	13C-1,2,3,4,7,8,9-HPCDF	M/M+2	0.45	0.37-0.51	93.0	77 - 129
CLEANUP STANDARD						
	37CL-2,3,7,8-TCDD ⁶			11.1	7.9 - 12.7	

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.
- (5) Alternate confirmation and quantitation ions used for native and labeled PECDD.
- (6) No ion abundance ratio for 37Cl4-2,3,7,8-TCDD; concentration reported.

Approved by: _____ Laura Luo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009 VER Data Filename: DX9M_082E S: 23
Instrument ID: HR GC/MS Analysis Date: 09-Jul-2009
GC Column ID: DB5 Analysis Time: 16:21:15

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
2,3,7,8-TCDD		13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PECDD ³		13C-1,2,3,7,8-PECDD	1.001	0.999-1.002
1,2,3,4,7,8-HXCDD		13C-1,2,3,4,7,8-HXCDD	1.000	0.999-1.001
1,2,3,6,7,8-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.000	0.998-1.004
1,2,3,7,8,9-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.000	1.000-1.019
1,2,3,4,6,7,8-HPCDD		13C-1,2,3,4,6,7,8-HPCDD	1.000	0.999-1.001
OCDD		13C-OCDD	1.000	0.999-1.001
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PECDF		13C-1,2,3,7,8-PECDF	1.000	0.999-1.002
2,3,4,7,8-PECDF		13C-2,3,4,7,8-PECDF	1.000	0.999-1.002
1,2,3,4,7,8-HXCDF		13C-1,2,3,4,7,8-HXCDF	1.001	0.999-1.001
1,2,3,6,7,8-HXCDF		13C-1,2,3,6,7,8-HXCDF	1.000	0.997-1.005
1,2,3,7,8,9-HXCDF		13C-1,2,3,7,8,9-HXCDF	1.000	0.999-1.001
2,3,4,6,7,8-HXCDF		13C-2,3,4,6,7,8-HXCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HPCDF		13C-1,2,3,4,6,7,8-HPCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HPCDF		13C-1,2,3,4,7,8,9-HPCDF	1.000	0.999-1.001
OCDF		13C-OCDD	1.002	0.999-1.008

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Laura Luo _____ QA/QC Chemist

AXYS METHOD MLA-017 Rev 16

Form 6B
PCDD/PCDF RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009 VER Data Filename: DX9M_082E S: 23
Instrument ID: HR GC/MS Analysis Date: 09-Jul-2009
GC Column ID: DB5 Analysis Time: 16:21:15

LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
LABELLED COMPOUND			
	13C-1,2,3,4-TCDD	1.013	0.976-1.043
	13C-1,2,3,4-TCDD	1.382	1.000-1.567
	13C-1,2,3,7,8,9-HXCDD	0.987	0.977-1.000
	13C-1,2,3,7,8,9-HXCDD	0.990	0.981-1.003
	13C-1,2,3,4,6,7,8-HPCDD	1.094	1.086-1.110
	13C-1,2,3,7,8,9-HXCDD	1.177	1.032-1.311
	13C-1,2,3,4-TCDD	0.966	0.923-1.103
	13C-1,2,3,4-TCDD	1.284	1.000-1.425
	13C-1,2,3,4-TCDD	1.352	1.011-1.526
	13C-1,2,3,4,7,8-HXCDF	0.954	0.944-0.970
	13C-1,2,3,7,8,9-HXCDD	0.958	0.949-0.975
	13C-1,2,3,7,8,9-HXCDF	1.005	0.977-1.047
	13C-1,2,3,7,8,9-HXCDD	0.980	0.959-1.021
	13C-1,2,3,4,6,7,8-HPCDF	1.061	1.043-1.085
	13C-1,2,3,7,8,9-HXCDD	1.103	1.057-1.151
CLEANUP STANDARD			
	13C-1,2,3,4-TCDD	1.013	0.989-1.052

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Approved by: _____ Laura Luo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Instrument ID:	HR GC/MS	Initial Calibration Date:	19-Jun-2009
RT Window Data Filename:	DX9M_082E S: 23	Analysis Date:	09-Jul-2009
DB-5 IS Data Filename:	DX9M_082E S: 23	Analysis Date:	09-Jul-2009
DB-225 IS Data Filename:		Analysis Date:	
		Time:	16:21:15
		Time:	16:21:15
		Time:	

DB5 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:58	1,3,6,8-TCDF (F)	21:26
1,2,8,9-TCDD (L)	28:22	1,2,8,9-TCDF (L)	28:12
1,2,4,7,9-PECDD (F)	32:07	1,3,4,6,8-PECDF (F)	28:54
1,2,3,8,9-PECDD (L)	37:05	1,2,3,8,9-PECDF (L)	37:10
1,2,4,6,7,9-HXCDD (F)	40:03	1,2,3,4,6,8-HXCDF (F)	39:01
1,2,3,4,6,7-HXCDD (L)	42:41	1,2,3,4,8,9-HXCDF (L)	43:01
1,2,3,4,6,7,9-HPCDD (F)	45:46	1,2,3,4,6,7,8-HPCDF (F)	45:18
1,2,3,4,6,7,8-HPCDD (L)	46:41	1,2,3,4,7,8,9-HPCDF (L)	47:05

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	0	1,2,3,8-TCDD 2,3,7,8-TCDD	16
1,2,7,8-TCDD 1,4,7,8-TCDD	0	2,3,4,7-TCDF 2,3,7,8-TCDF	N/A
1,4,7,8-TCDD 1,2,3,7-TCDD	0	2,3,7,8-TCDF 1,2,3,9-TCDF	N/A
1,2,3,7-TCDD 1,2,3,8-TCDD	DB-5 column; co-elute as per Figure 6 in Method		

Approved by: _____ Laura Luo _____ QA/QC Chemist

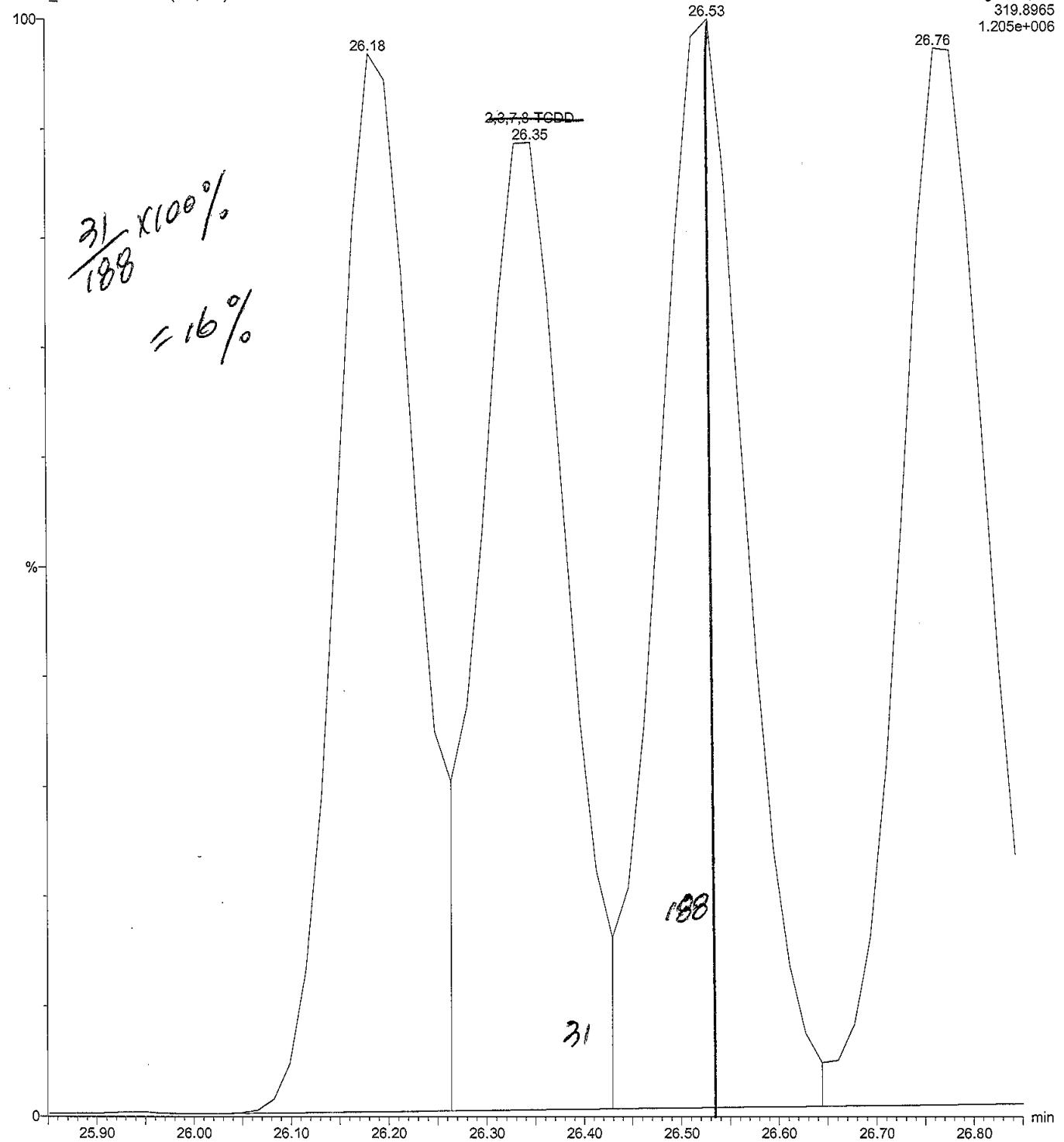


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Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

2,3,7,8-TCDD

DX9M_082ES23 Smooth(SG,1x2)



PV BY WC
13-July-2009
Page 121 of 127


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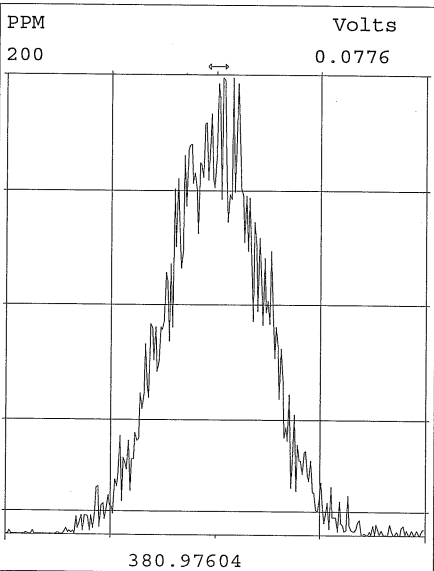
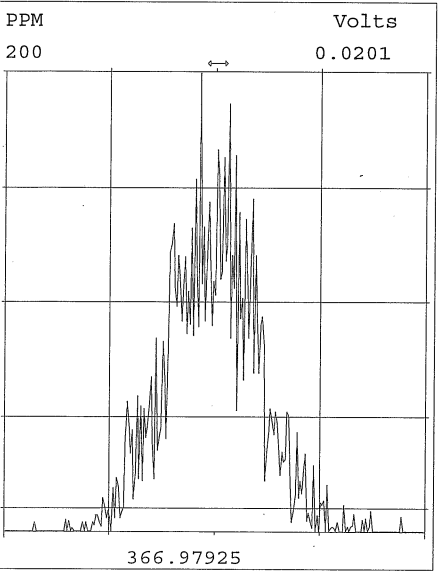
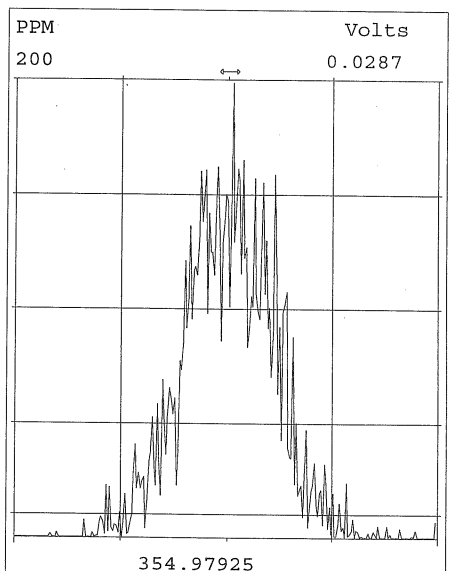
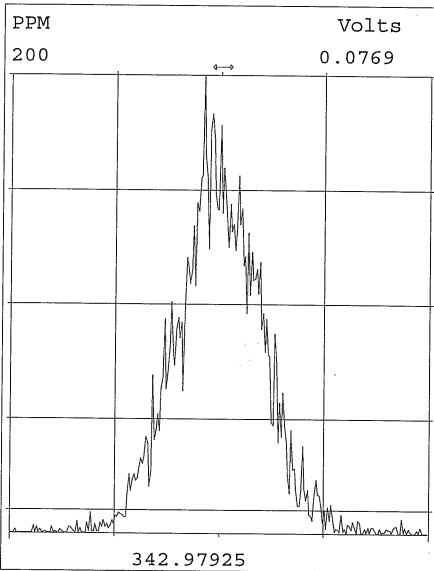
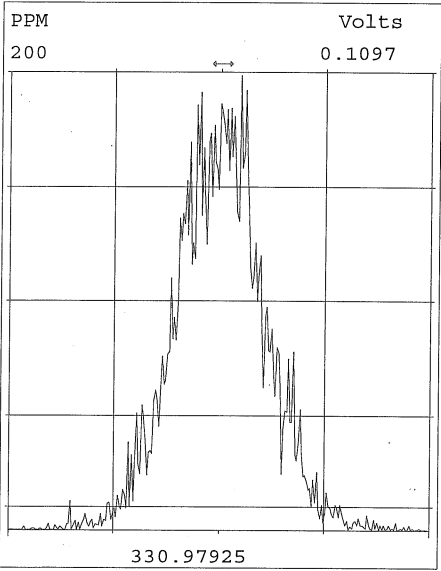
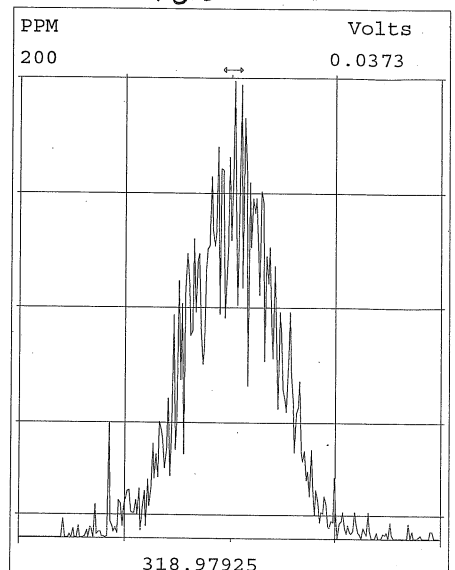
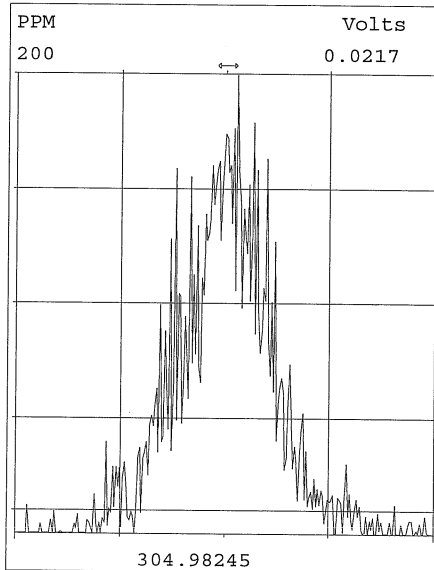
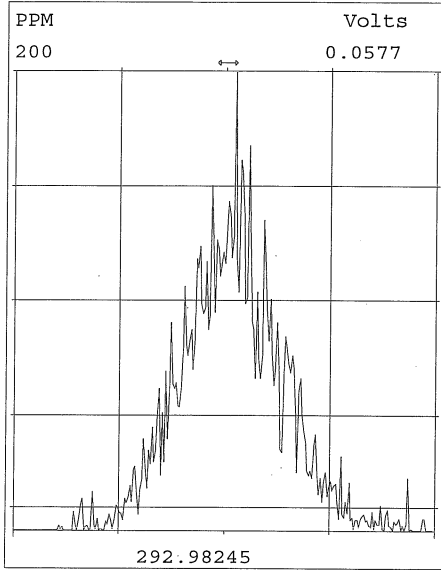
Experiment : DX-DB225-1_03      Temps -source: 250      Tune :      Date -list : 09-Jul-2009
GC Program  : DX-DB225-1_02      -s resv: 160      List : RT   -liner : 08-Jul-2009
Column type : DB-225             -re_ent: 220      Check :     -septum: 08-Jul-2009
Serial #    : US5436814H+5M      -cap_1 : 220      LIMS :     -guard : 60cm 17-Jun-09
kPa         : 180                 -cap_2 : 220      Logfile:    -column: COMB 09-JUL-09
Vol injected: 2.0uL                                     -t line: 31cm 24-Jun-09
PMT Voltage : 399
    
```

#	Data file	S	V	Sample Text	Comments	Acquisition Date/Time
1	DB93_146D	1	1	DX001A-RSN,,/02-13	1,,2.0uL	9-JUL-09 20:20:18
2	DB93_146D	2	2	DX036A-CAL,,/01	1,,2.0uL Cal	9-JUL-09 20:55:57
3	DB93_146D	3	3	DX036B-CAL,,/01	1,,2.0uL Cal	9-JUL-09 21:31:37
4	DB93_146D	4	4	DX036B-CAL,,/01	1,,2.0uL Cal	9-JUL-09 22:07:17
5	DB93_146D	5	5	DX036C-CAL,,/01	1,,2.0uL Cal	9-JUL-09 22:43:14
6	DB93_146D	6	6	DX036F-CAL,,/01	1,,2.0uL Cal	9-JUL-09 23:29:32
7	DB93_146D	7	7	DX036E-CAL,,/01	1,,2.0uL Cal	10-JUL-09 00:05:12
8	DB93_146D	8	8	DX036D-CAL,,/01-23A	1,,2.0uL Cal	10-JUL-09 00:40:51
9	DB93_146D	9	9	Toluene,,	1,,2.0uL	10-JUL-09 01:16:30
10	DB93_146D	10	10	Toluene,,	1,,2.0uL	10-JUL-09 01:52:08
11	DB93_146D	11	11	WG29227-101,,Blank	1,WG29227,2.0/20uL	10-JUL-09 02:27:48
12	DB93_146D	12	12	WG29263-101,,Blank	1,WG29263,2.0/20uL	10-JUL-09 03:03:26
13	DB93_146D	13	13	L12763-3,I,	1,WG28997,2.0/20uL	10-JUL-09 03:39:05
14	DB93_146D	14	14	L12920-1,,	1,WG29227,2.0/20uL	10-JUL-09 04:14:43
15	DB93_146D	15	15	L12960-1,,	1,WG29263,2.0/20uL	10-JUL-09 04:50:22
16	DB93_146D	16	16	L12960-2,,	1,WG29263,2.0/20uL	10-JUL-09 05:25:59
17	DB93_146D	17	17	L12960-3,,	1,WG29263,2.0/20uL	10-JUL-09 06:01:38
18	DB93_146D	18	18	L12763-5,NK,	1,WG28997,2.0/20uL	10-JUL-09 06:37:15
19	DB93_146D	19	19	DX036D-CAL,,/01-23A	1,,2.0uL Cal	10-JUL-09 07:15:18



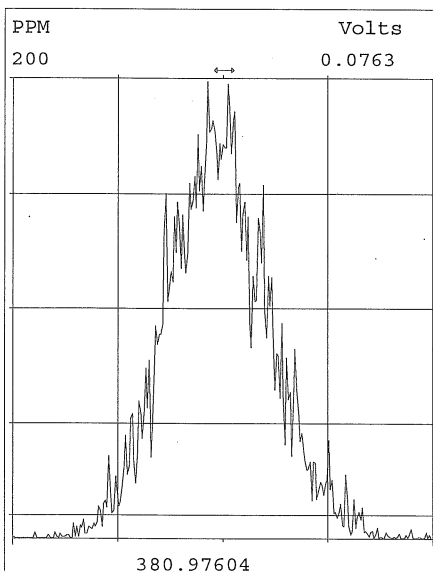
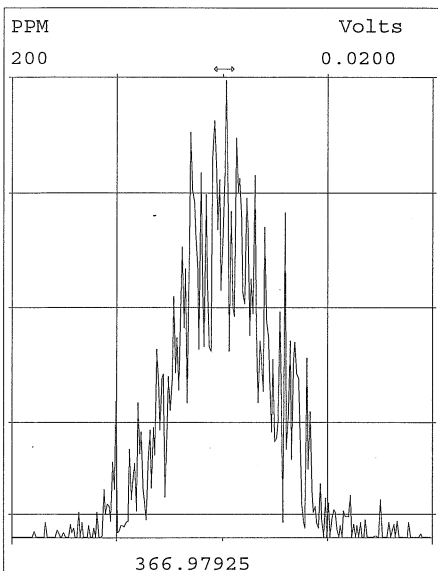
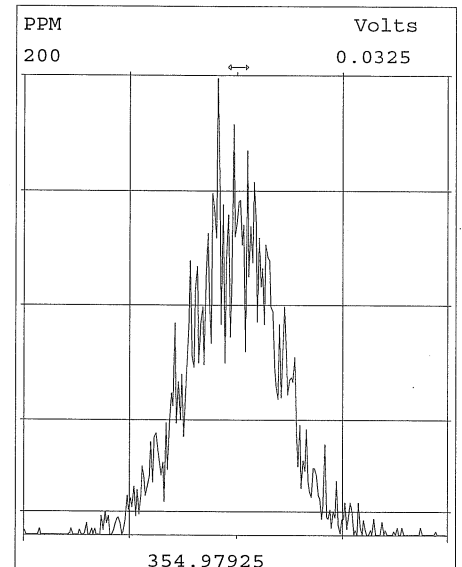
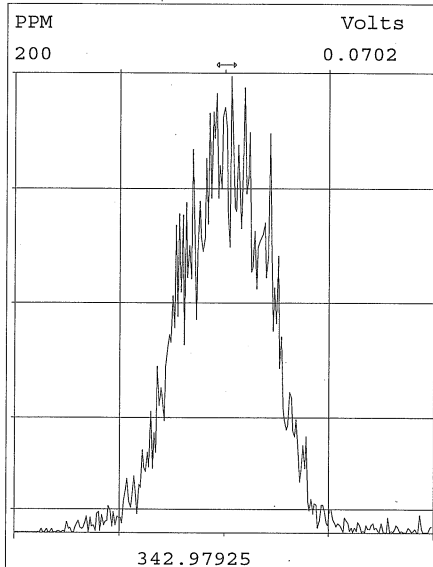
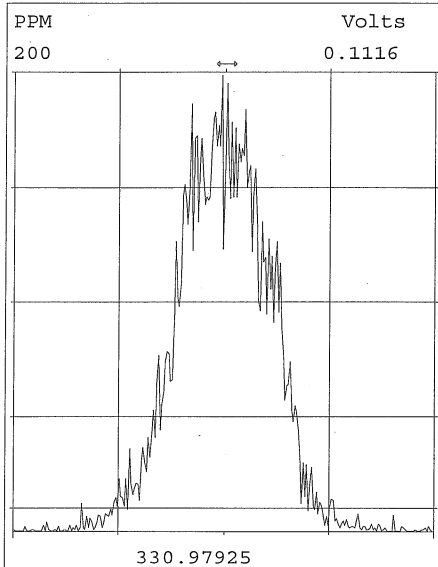
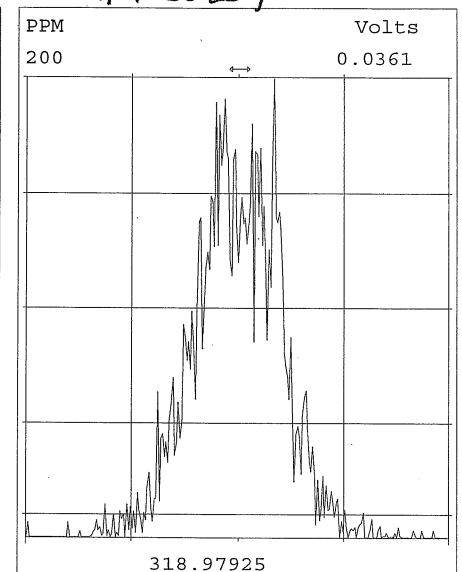
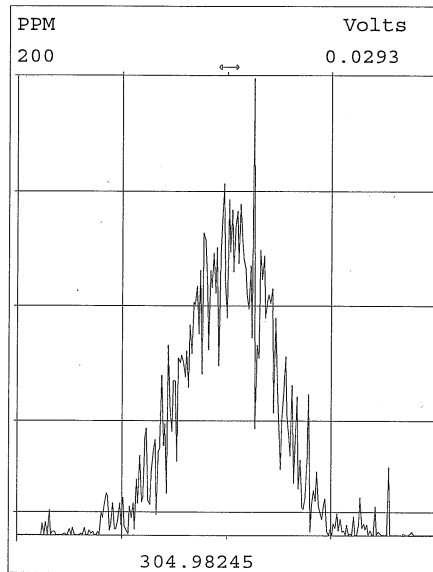
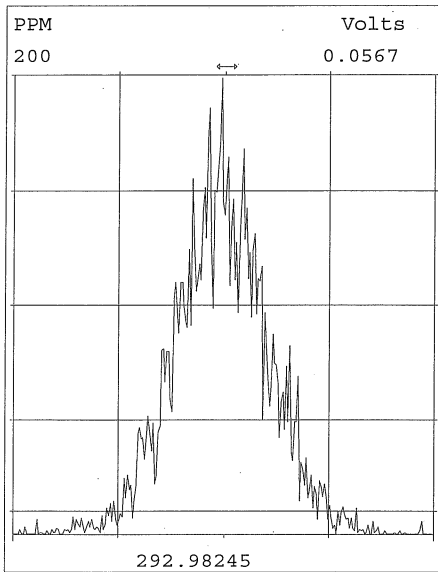
Peak Locate Examination: 9-JUL-2009:20:19 File:DB93_146DCAL1
Experiment:DX-DB225-1_03 Function:1 Reference:PFK

*approved by m2
09 Jul 2009*



Peak Locate Examination:10-JUL-2009:08:00 File:DB93_146DCAL2(147CAL)
Experiment:DX-DB225-1_03 Function:1 Reference:PFK

*approved by
R. J. L. J. L. J. L.*



DB93_146D-B

OPUSquan 10-JUL-2009

Page 1

Page 1 of 1

c/q	Data Area	Data File	S	I	AnalyteTable	Factr #1	Factr #2	Size	HC	Sample Text	Comments	Done
1 c	STEM-DEFAULT	DB93_146D	4	1	1613b-DB-C4	1.0000	1.0000	1.000000	y	DX036B-CAL,,>	1,,2.0uL Cal	Y
2 c	STEM-DEFAULT	DB93_146D	5	1	1613b-DB-C4	4.0000	1.0000	1.000000	y	DX036C-CAL,,>	1,,2.0uL Cal	Y
3 c	STEM-DEFAULT	DB93_146D	8	1	1613b-DB-C4	20.0000	1.0000	1.000000	y	DX036D-CAL,,>	1,,2.0uL Cal	Y
4 c	STEM-DEFAULT	DB93_146D	7	1	1613b-DB-C4	80.0000	1.0000	1.000000	y	DX036E-CAL,,>	1,,2.0uL Cal	Y
5 c	STEM-DEFAULT	DB93_146D	6	1	1613b-DB-C4	400.0000	1.0000	1.000000	y	DX036F-CAL,,>	1,,2.0uL Cal	Y

Pvd BY SF 10/JUL/2009



AXYS METHOD MLA-017 Rev 16

**Form 3A
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 09-Jul-2009

Instrument ID: HR GC/MS

GC Column ID: DB225

CS0 Data Filename: N/A

CS1 Data Filename: DB93_146D S: 4

CS2 Data Filename: DB93_146D S: 5

CS3 Data Filename: DB93_146D S: 8

CS4 Data Filename: DB93_146D S: 7

CS5 Data Filename: DB93_146D S: 6

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
2,3,7,8-TCDF			0.78	0.74	0.79	0.79	0.82	0.78	3.69

(1) Where applicable, custom lab flags have been used on this report.

(2) For contract CV specifications, see Section 10.5.4, Method 1613.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

**Form 3C
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 09-Jul-2009

Instrument ID: HR GC/MS

GC Column ID: DB225

CS0 Data Filename: N/A

CS1 Data Filename: DB93_146D S: 4

CS2 Data Filename: DB93_146D S: 5

CS3 Data Filename: DB93_146D S: 8

CS4 Data Filename: DB93_146D S: 7

CS5 Data Filename: DB93_146D S: 6

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO						QC LIMITS ³	
			CS0	CS1	CS2	CS3	CS4	CS5		CS6
2,3,7,8-TCDF		M/M+2		0.87	0.80	0.76	0.75	0.75		0.65-0.89

(1) Where applicable, custom lab flags have been used on this report.

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits from Table 9, Method 1613.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Instrument ID:	HR GC/MS	Initial Calibration Date:	09-Jul-2009
RT Window Data Filename:		Analysis Date:	Time:
DB-5 IS Data Filename:		Analysis Date:	Time:
DB-225 IS Data Filename:	DB93_146D S: 1	Analysis Date:	09-Jul-2009 Time: 20:20:18

DB225 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	N/A	1,3,6,8-TCDF (F)	N/A
1,2,8,9-TCDD (L)	N/A	1,2,8,9-TCDF (L)	N/A
1,2,4,7,9-PECDD (F)	N/A	1,3,4,6,8-PECDF (F)	N/A
1,2,3,8,9-PECDD (L)	N/A	1,2,3,8,9-PECDF (L)	N/A
1,2,4,6,7,9-HXCDD (F)	N/A	1,2,3,4,6,8-HXCDF (F)	N/A
1,2,3,4,6,7-HXCDD (L)	N/A	1,2,3,4,8,9-HXCDF (L)	N/A
1,2,3,4,6,7,9-HPCDD (F)	N/A	1,2,3,4,6,7,8-HPCDF (F)	N/A
1,2,3,4,6,7,8-HPCDD (L)	N/A	1,2,3,4,7,8,9-HPCDF (L)	N/A

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

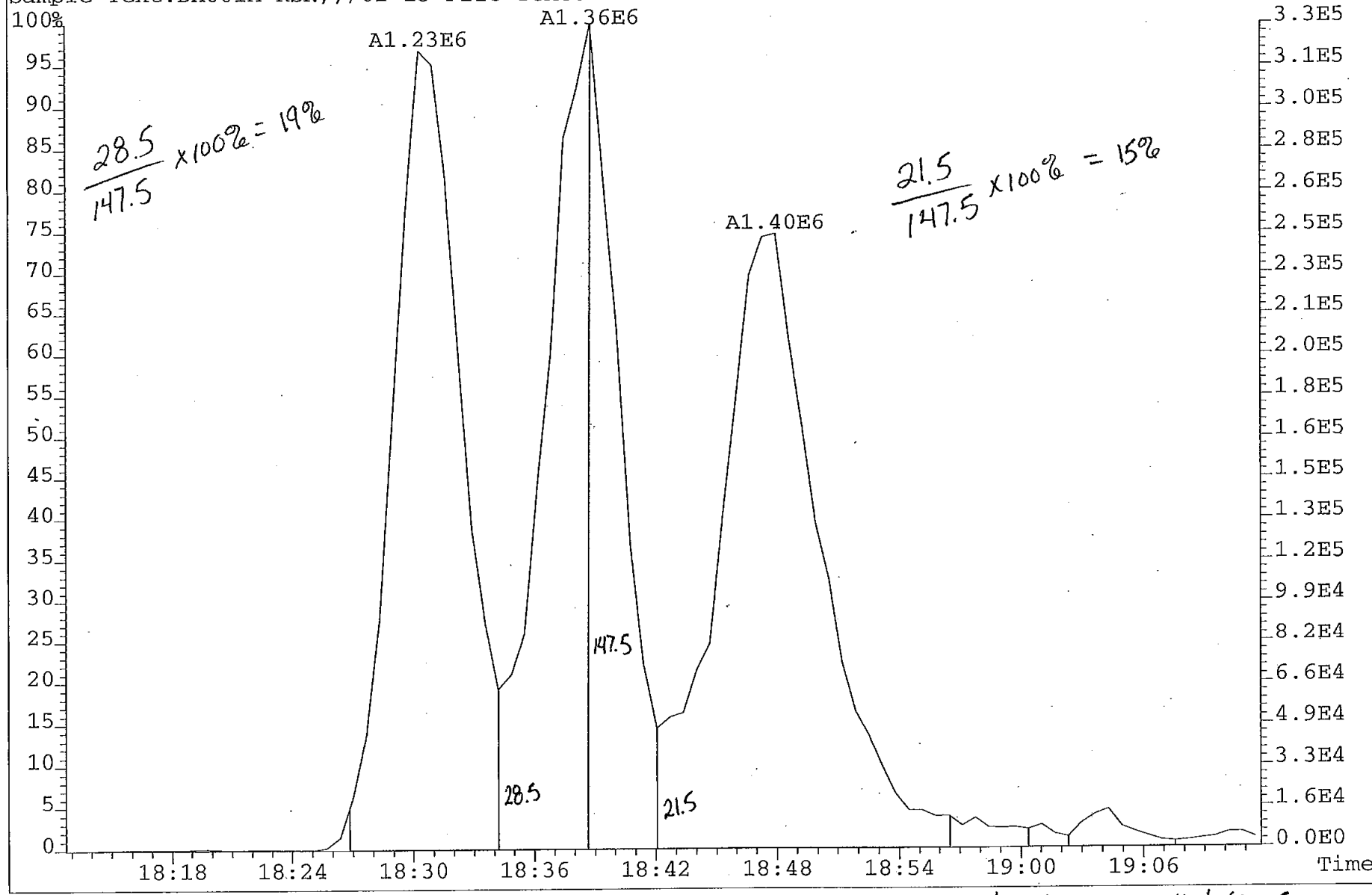
ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	N/A	1,2,3,8-TCDD 2,3,7,8-TCDD	N/A
1,2,7,8-TCDD 1,4,7,8-TCDD	N/A	2,3,4,7-TCDF 2,3,7,8-TCDF	19
1,4,7,8-TCDD 1,2,3,7-TCDD	N/A	2,3,7,8-TCDF 1,2,3,9-TCDF	15
1,2,3,7-TCDD 1,2,3,8-TCDD	N/A		

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



File:DB93_146D #1-918 Acq: 9-JUL-2009 20:20:18 GC EI+ Voltage SIR Autospec-Ultima
305.8987 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.10%,144.0,5.00%,F,T) Exp:DX-DB225-1_03 Noise:3»
Sample Text:DX001A-RSN,,/02-13 File Text:



Printed by SF 10/Jul/2009



Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44

Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Compound name: -

#	Name	ID	Sample Text	Acq Date	Acq Time
1	DX9M_083S1	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	08:18:53
2	DX9M_083S2	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	09:25:02
3	DX9M_083S3	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	10:17:19
4	DX9M_083S4	WG29271-101,I2,Blank	1,WG29271,1.0/20uL	10-Jul-09	11:12:16
5	DX9M_083S5	L12912-1,I,	1,WG29271,1.0/20uL	10-Jul-09	12:07:12
6	DX9M_083S6	L12912-3,I,	1,WG29271,1.0/20uL	10-Jul-09	13:02:08
7	DX9M_083S7	L12912-4,I,	1,WG29271,1.0/20uL	10-Jul-09	13:57:05
8	DX9M_083S8	L12912-5,I,	1,WG29271,1.0/20uL	10-Jul-09	14:52:03
9	DX9M_083S9	L12912-6,I,	1,WG29271,1.0/20uL	10-Jul-09	15:46:59
10	DX9M_083S10	L12912-7,,	1,WG29271,1.0/20uL	10-Jul-09	16:41:56
11	DX9M_083S11	L12912-8,,	1,WG29271,1.0/20uL	10-Jul-09	17:36:52
12	DX9M_083S12	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	18:31:49
13	DX9M_083S13	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	19:36:13
14	DX9M_083S14	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	20:37:20
15	DX9M_083S15	WG29103-102,I,SPM	1,WG29103,1.0/20uL	10-Jul-09	21:30:58
16	DX9M_083S16	WG29103-102,I2,SPM	1,WG29103,1.0/20uL	10-Jul-09	22:28:44
17	DX9M_083S17	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	23:20:46
18	DX9M_083S18	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	00:15:46
19	DX9M_083S19	WG29103-101,I,Blank	1,WG29103,1.0/20uL	11-Jul-09	01:10:43
20	DX9M_083S20	L12442-1,,	1,WG29103,1.0/20uL	11-Jul-09	02:05:45
21	DX9M_083S21	L12442-4,,	1,WG29103,1.0/20uL	11-Jul-09	03:00:42
22	DX9M_083S22	L12442-5,,	1,WG29103,1.0/20uL	11-Jul-09	03:55:39
23	DX9M_083S23	L12912-9,,	1,WG29271,1.0/20uL	11-Jul-09	04:50:34
24	DX9M_083S24	WG29271-103,,DUP	1,WG29271,1.0/20uL	11-Jul-09	05:45:32
25	DX9M_083S25	WG29271-104,,CRM	1,WG29271,1.0/20uL	11-Jul-09	06:40:28
26	DX9M_083S26	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	11-Jul-09	07:47:15
27	DX9M_083S27	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	08:54:41
28	DX9M_083S28	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	09:47:02
29	DX9M_083S29	L12442-6,,	1,WG29103,1.0/20uL	11-Jul-09	10:41:58
30	DX9M_083S30	L12442-7,,	1,WG29103,1.0/20uL	11-Jul-09	11:37:01
31	DX9M_083S31	L12442-8,,	1,WG29103,1.0/20uL	11-Jul-09	12:31:57
32	DX9M_083S32	L12442-9,,	1,WG29103,1.0/20uL	11-Jul-09	13:26:58
33	DX9M_083S33	L12442-10,,	1,WG29103,1.0/20uL	11-Jul-09	14:21:56
34	DX9M_083S34	L12442-11,,	1,WG29103,1.0/20uL	11-Jul-09	15:16:58
35	DX9M_083S35	L12442-12,,	1,WG29103,1.0/20uL	11-Jul-09	16:23:48
36	DX9M_083S36	L12442-20,,	1,WG29103,1.0/20uL	11-Jul-09	17:16:08
37	DX9M_083S37	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	11-Jul-09	18:11:10
38	DX9M_083S38	WG28997-102,I,SPM	1,WG28997,1.0/20uL	11-Jul-09	19:06:07
39	DX9M_083S39	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	20:01:09
40	DX9M_083S40	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	20:56:06
41	DX9M_083S41	L12442-21,,	1,WG29103,1.0/20uL	11-Jul-09	21:51:03
42	DX9M_083S42	L12442-23,,	1,WG29103,1.0/20uL	11-Jul-09	22:45:59
43	DX9M_083S43	L12442-24,,	1,WG29103,1.0/20uL	11-Jul-09	23:40:56
44	DX9M_083S44	L12442-25,,	1,WG29103,1.0/20uL	12-Jul-09	00:35:51
45	DX9M_083S45	WG29103-103,,DUP	1,WG29103,1.0/20uL	12-Jul-09	01:30:49
46	DX9M_083S46	L12442-26,,	1,WG29103,1.0/20uL	12-Jul-09	02:25:46
47	DX9M_083S47	L12442-27,,	1,WG29103,1.0/20uL	12-Jul-09	03:20:43
48	DX9M_083S48	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	12-Jul-09	04:27:26



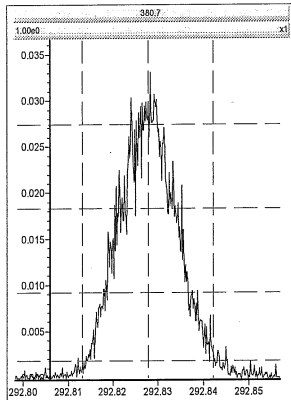
Experiment Calibration Report

MassLynx 4.1 DX9M_083 CALI S:1

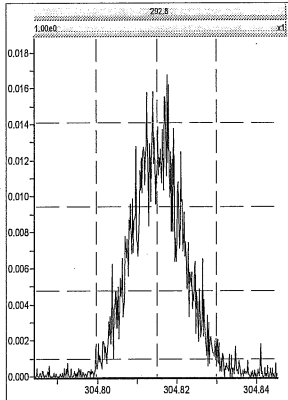
File: Experiment: DX_DB5_1_01.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, July 10, 2009 08:10:24 Pacific Daylight Time approved by R. J. J. J.

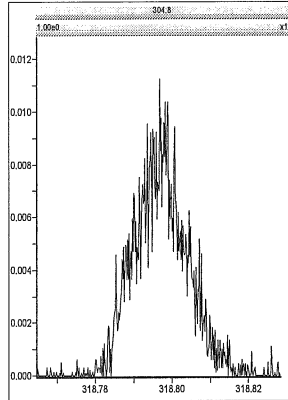
M 292.9824 R 10246



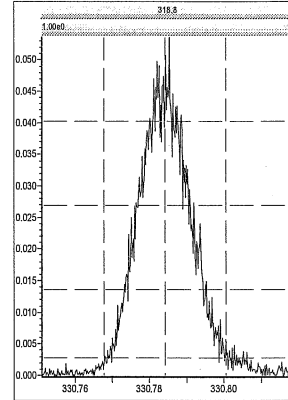
M 304.9824 R 11264



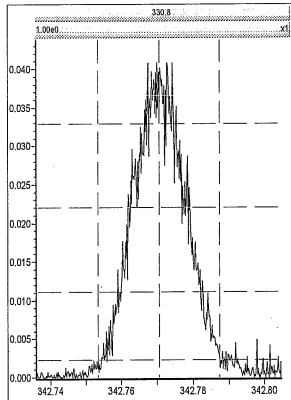
M 318.9792 R 11629



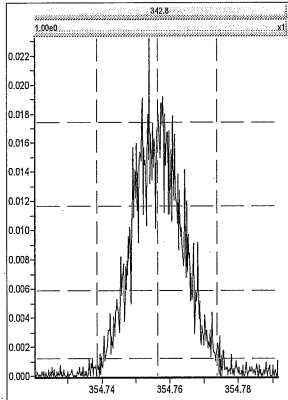
M 330.9792 R 11466



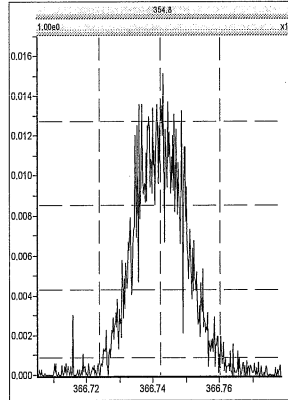
M 342.9792 R 10506



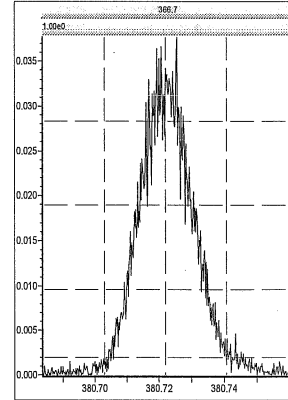
M 354.9792 R 10638



M 366.9792 R 13510



M 380.9760 R 10246



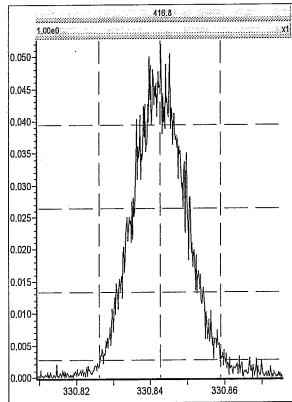
Experiment Calibration Report

MassLynx 4.1

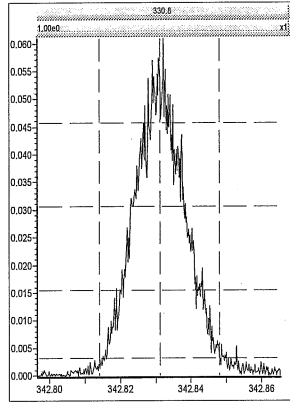
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Printed: Friday, July 10, 2009 08:11:18 Pacific Daylight Time

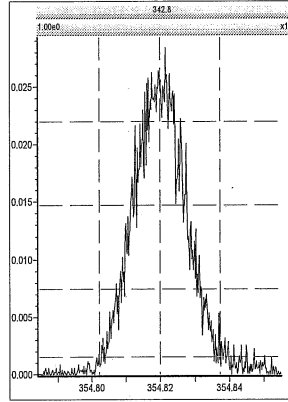
M 330.9792 R 10205



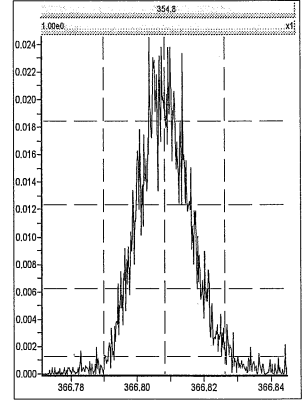
M 342.9792 R 10287



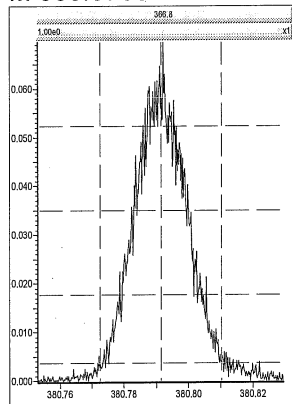
M 354.9792 R 11313



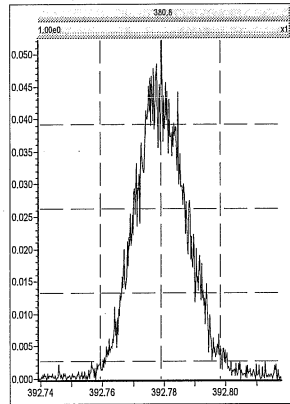
M 366.9792 R 10916



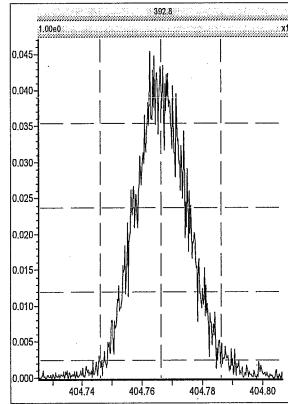
M 380.9760 R 10042



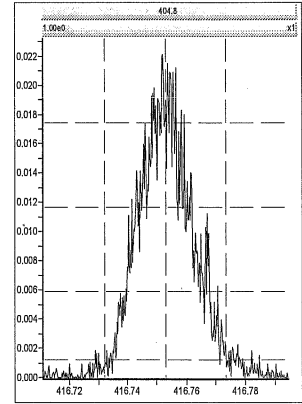
M 392.9760 R 10204



M 404.9760 R 11159



M 416.9760 R 10730



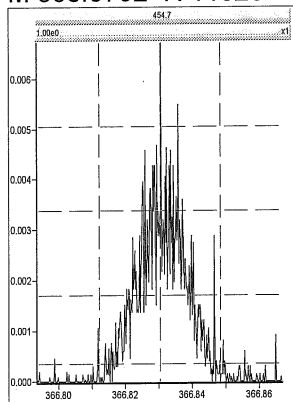
Experiment Calibration Report

MassLynx 4.1

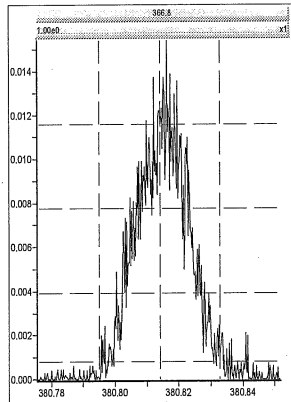
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Printed: Friday, July 10, 2009 08:13:25 Pacific Daylight Time

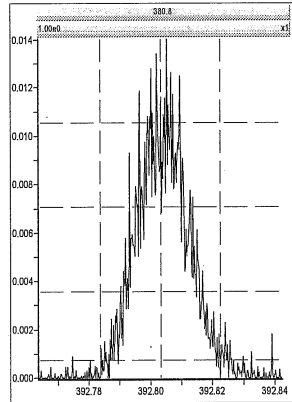
M 366.9792 R 11628



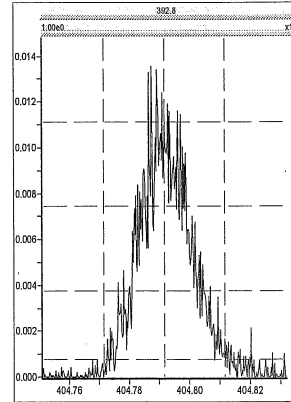
M 380.9760 R 10459



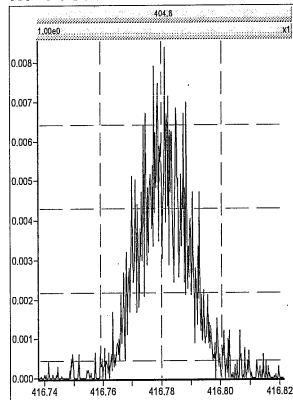
M 392.9760 R 11360



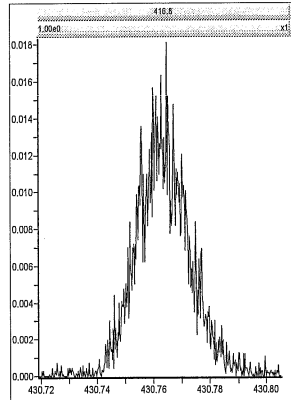
M 404.9760 R 10779



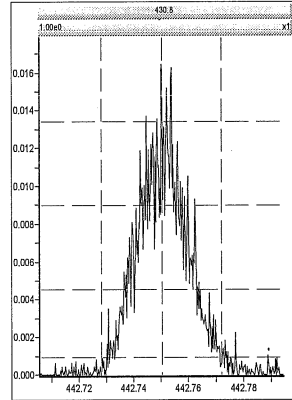
M 416.9760 R 12256



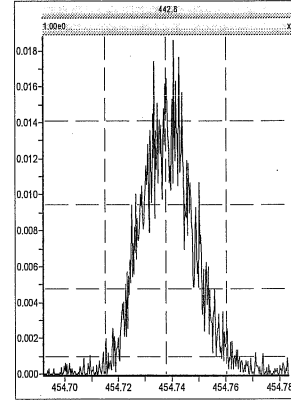
M 430.9728 R 12376



M 442.9728 R 11015



M 454.9728 R 11013



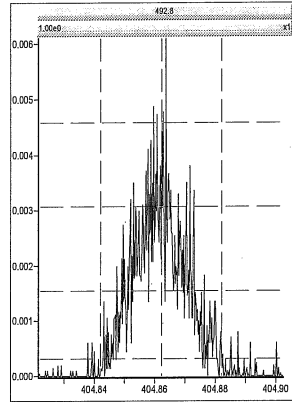
Experiment Calibration Report

MassLynx 4.1

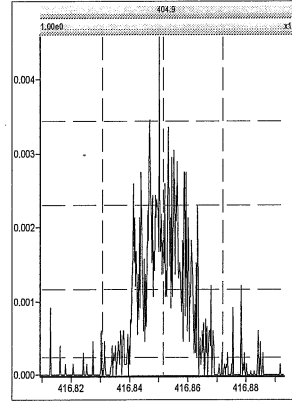
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Printed: Friday, July 10, 2009 08:16:00 Pacific Daylight Time

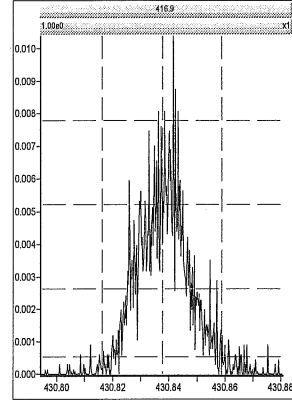
M 404.9760 R 11575



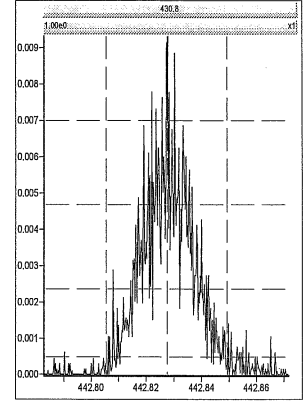
M 416.9760 R 16891



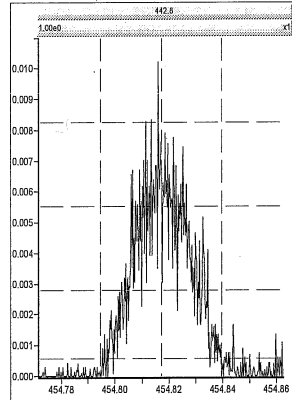
M 430.9728 R 12317



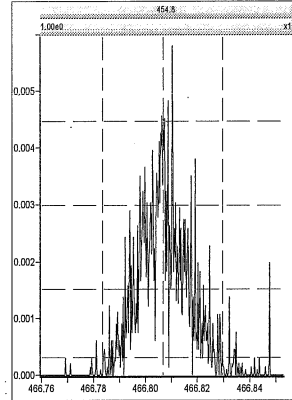
M 442.9728 R 11261



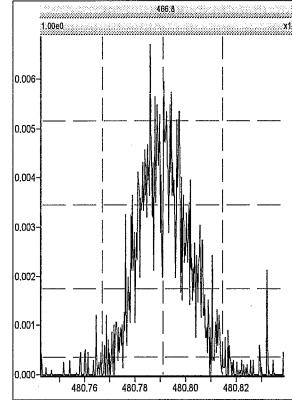
M 454.9728 R 11314



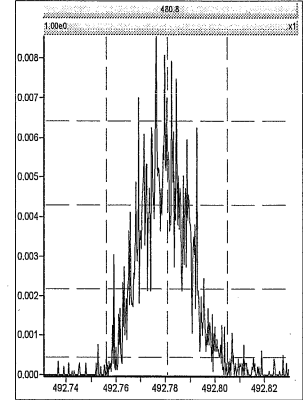
M 466.9728 R 17607



M 480.9696 R 12820



M 492.9696 R 13022



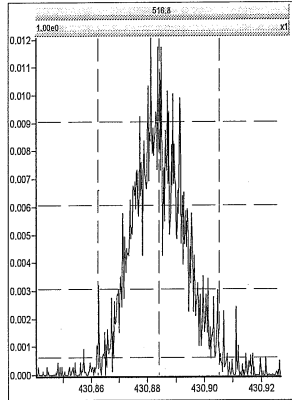
Experiment Calibration Report

MassLynx 4.1

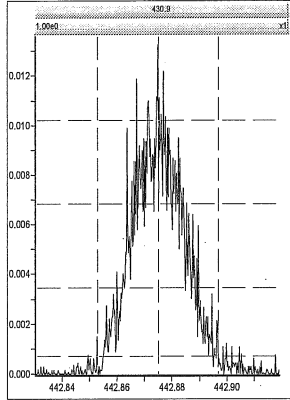
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Printed: Friday, July 10, 2009 08:16:55 Pacific Daylight Time

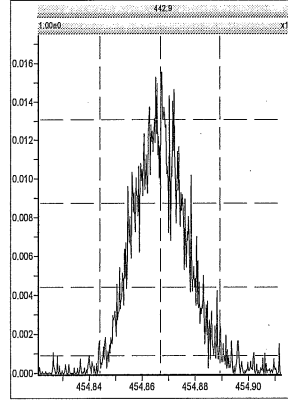
M 430.9728 R 11681



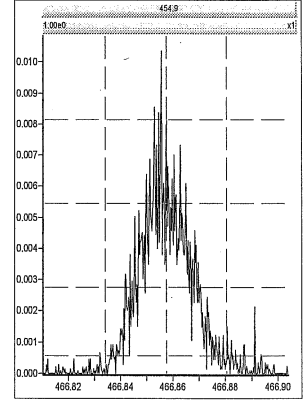
M 442.9728 R 12564



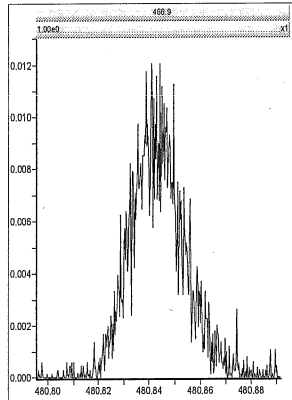
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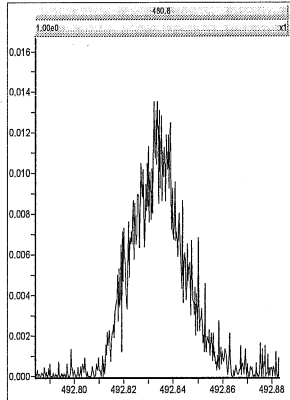
M 466.9728 R 13516



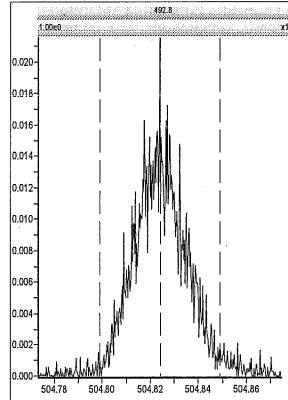
M 480.9696 R 11905



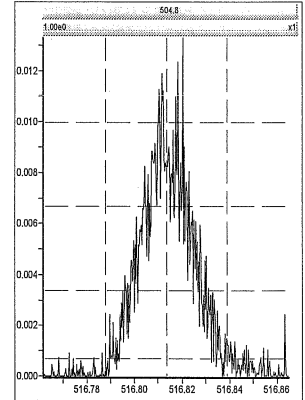
M 492.9696 R 11520



M 504.9696 R 11465



M 516.9697 R 14289

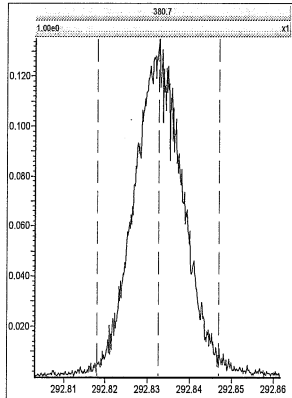


Experiment Calibration Report

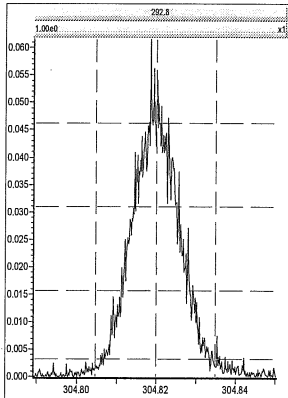
File: Experiment: DX_DB5_1_01.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, July 10, 2009 19:32:00 Pacific Daylight Time *Approved xx 10 Jul 09*

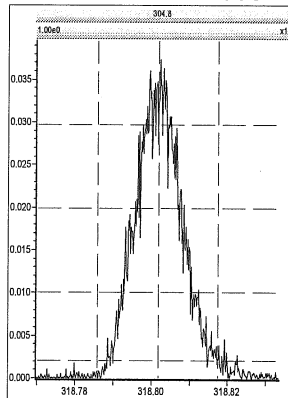
M 292.9824 R 10684



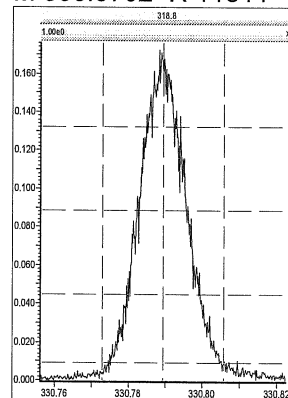
M 304.9824 R 11361



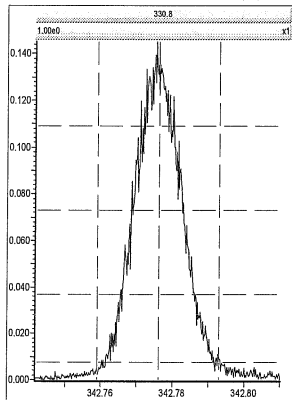
M 318.9792 R 11063



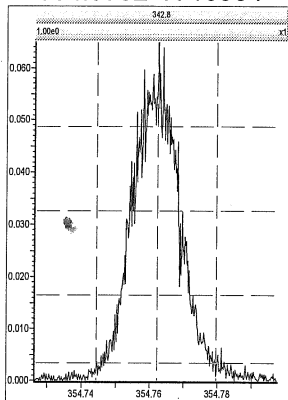
M 330.9792 R 11311



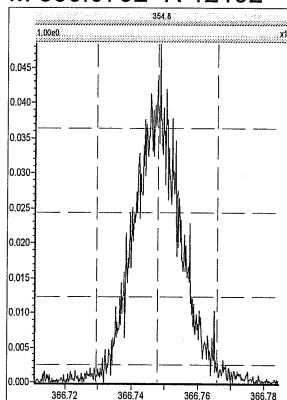
M 342.9792 R 11263



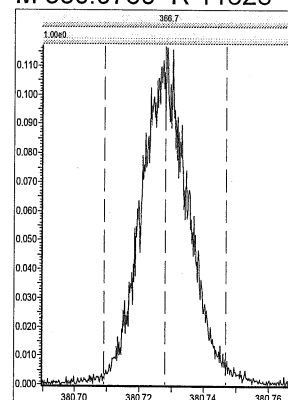
M 354.9792 R 10964



M 366.9792 R 12192



M 380.9760 R 11628



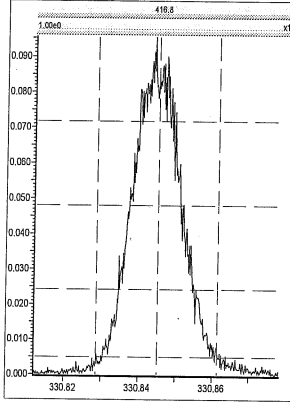
Experiment Calibration Report

MassLynx 4.1

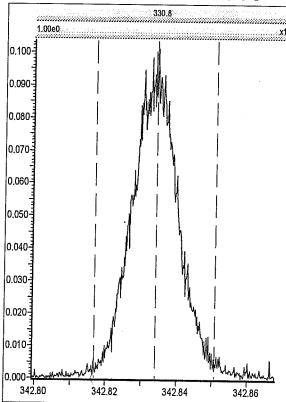
File: Experiment: DX_DB5_1_01.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, July 10, 2009 19:32:21 Pacific Daylight Time

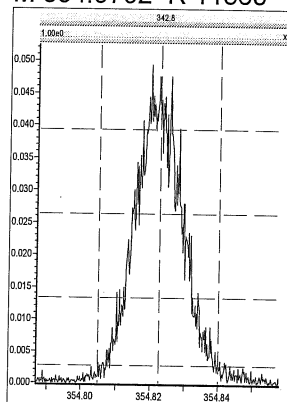
M 330.9792 R 10818



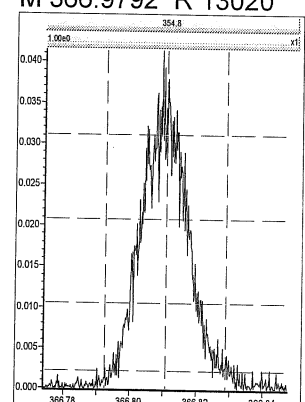
M 342.9792 R 11110



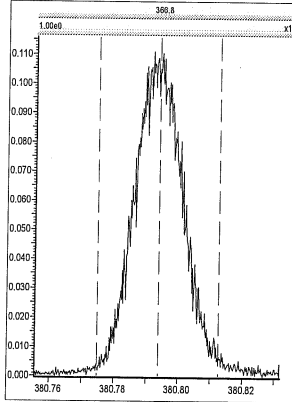
M 354.9792 R 11365



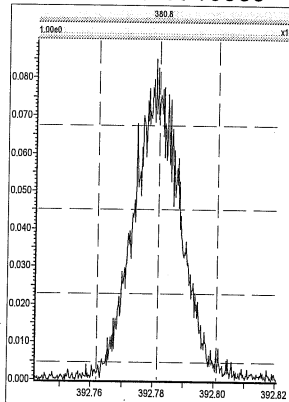
M 366.9792 R 13020



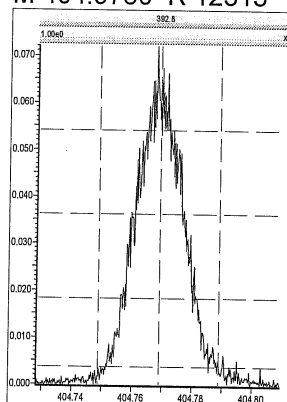
M 380.9760 R 11310



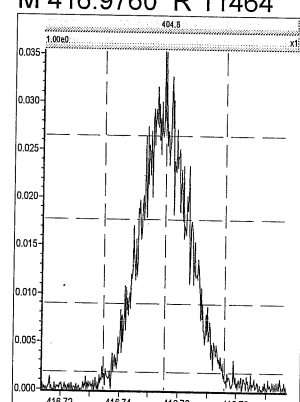
M 392.9760 R 10589



M 404.9760 R 12313



M 416.9760 R 11464



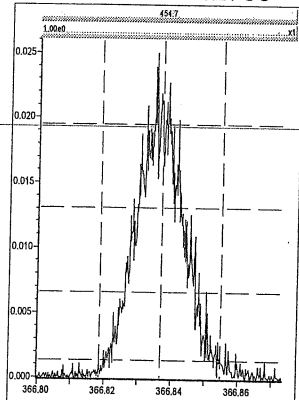
Experiment Calibration Report

MassLynx 4.1

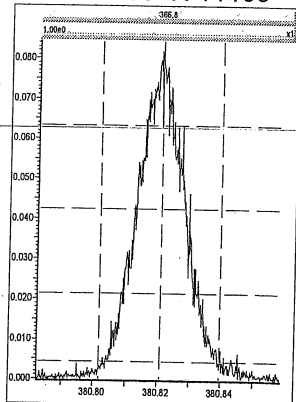
File: Experiment: DX_DB5_1_01.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, July 10, 2009 19:32:46 Pacific Daylight Time

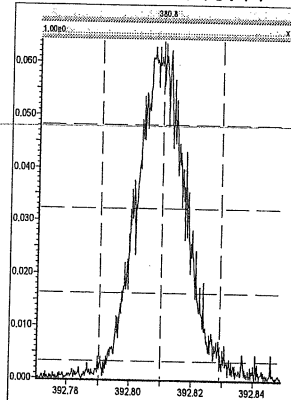
M 366.9792 R 12755



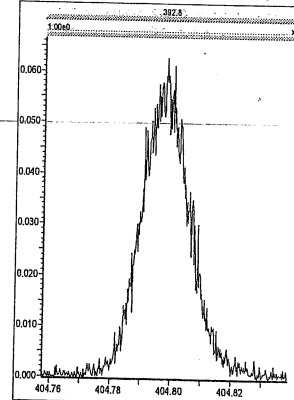
M 380.9760 R 11159



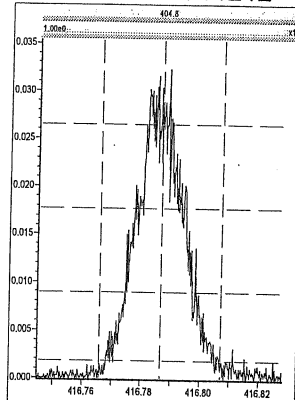
M 392.9760 R 10777



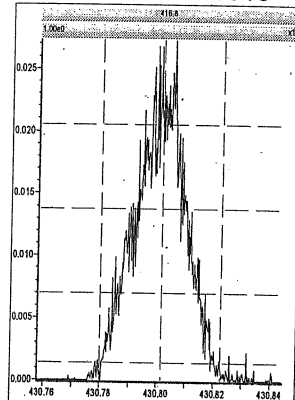
M 404.9760 R 11415



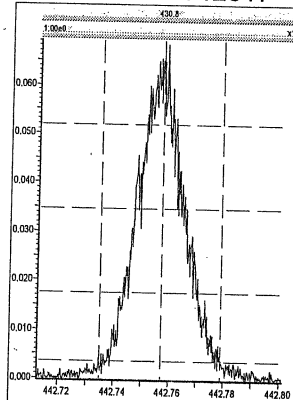
M 416.9760 R 11212



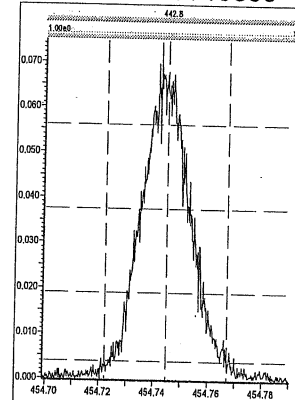
M 430.9728 R 11013



M 442.9728 R 12017



M 454.9728 R 10866



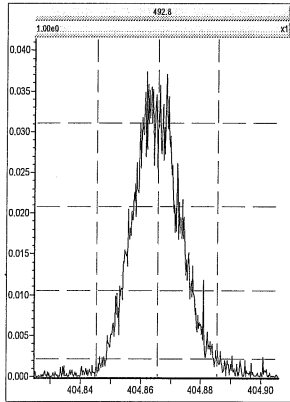
Experiment Calibration Report

MassLynx 4.1

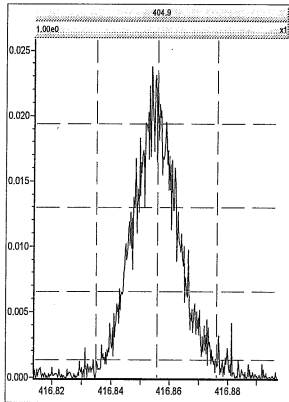
File: Experiment: DX_DB5_1_01.exp Reference: Pfk.ref Function: 6 @ 200 (ppm)

Printed: Friday, July 10, 2009 19:33:07 Pacific Daylight Time

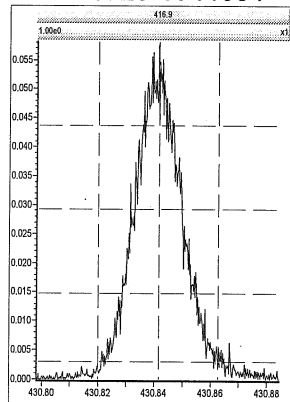
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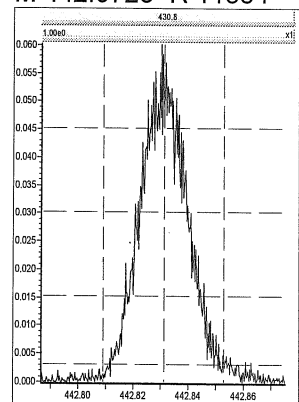
M 416.9760 R 12194



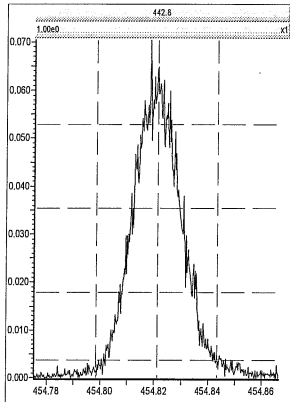
M 430.9728 R 11064



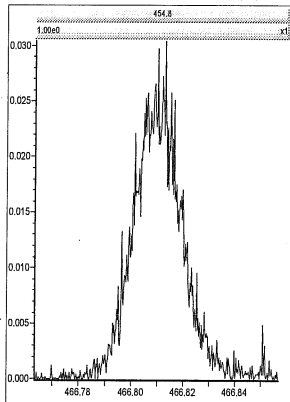
M 442.9728 R 11364



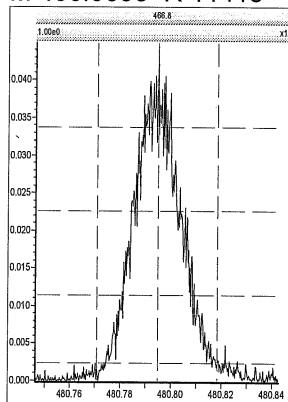
M 454.9728 R 10916



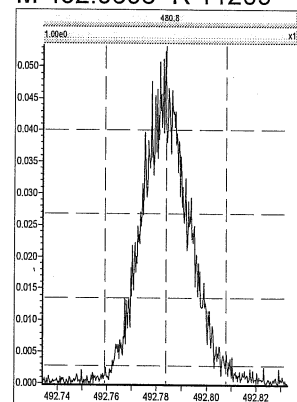
M 466.9728 R 11468



M 480.9696 R 11415



M 492.9696 R 11209



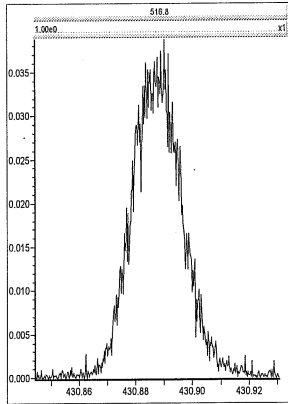
Experiment Calibration Report

File: Experiment: DX_DB5_1_01.exp Reference: Pfk.ref Function: 7 @ 200 (ppm)

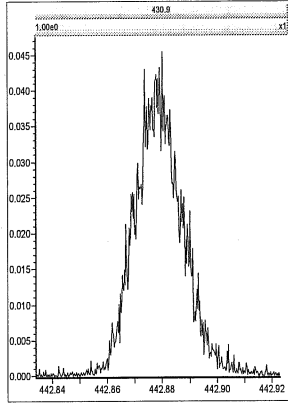
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Approved x x 10 Jul 09

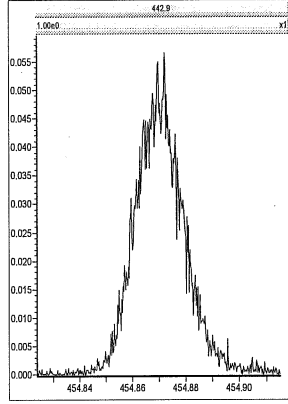
M 430.9728 R 10964



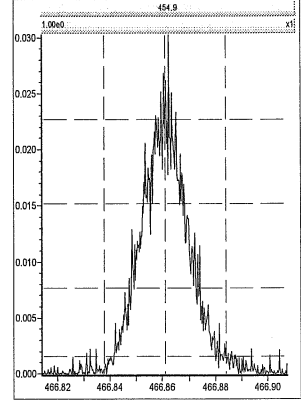
M 442.9728 R 12197



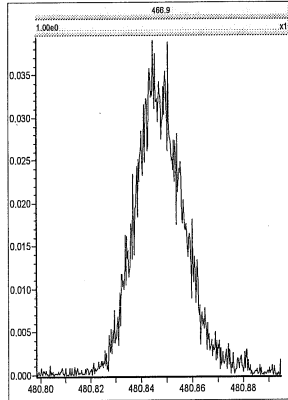
M 454.9728 R 11062



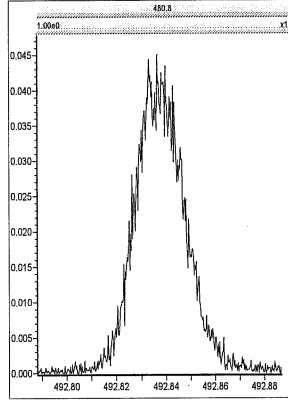
M 466.9728 R 11630



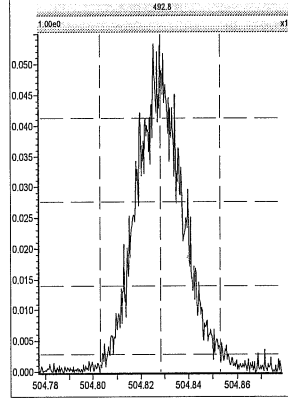
M 480.9696 R 11014



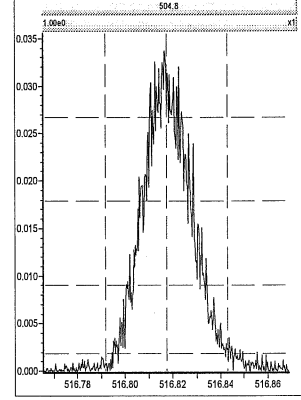
M 492.9696 R 11012



M 504.9696 R 12078



M 516.9697 R 11207

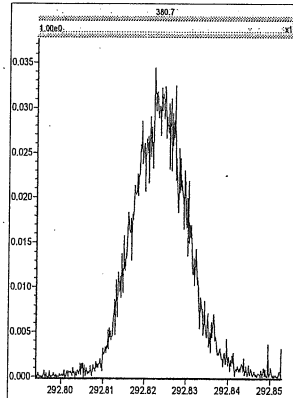


Experiment Calibration Report

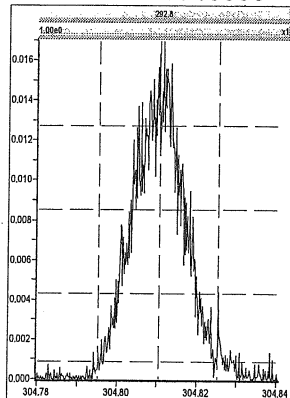
File: Experiment: DX_DB5_1_01.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, July 10, 2009 20:33:15 Pacific Daylight Time *Approved xx 10 Jul 09*

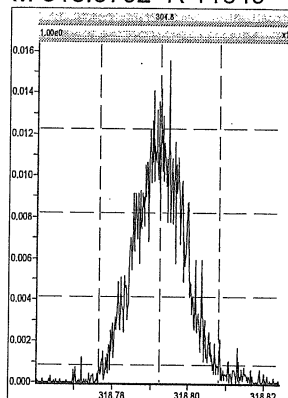
M 292.9824 R 10121



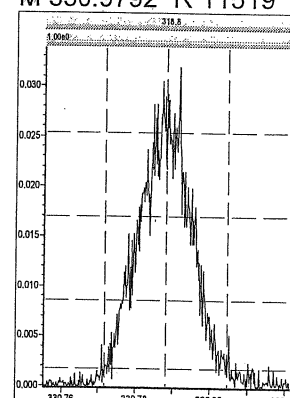
M 304.9824 R 10596



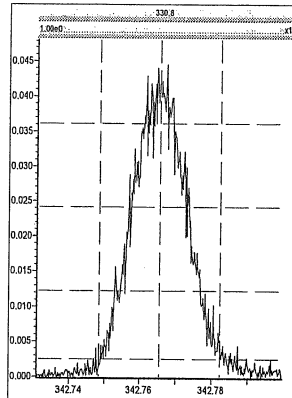
M 318.9792 R 11849



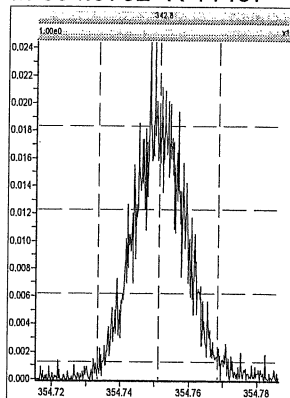
M 330.9792 R 11519



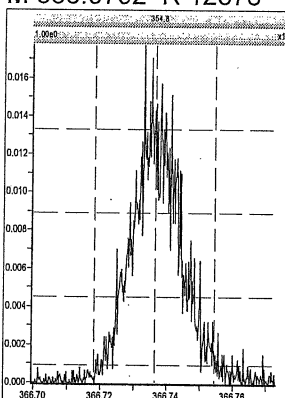
M 342.9792 R 10164



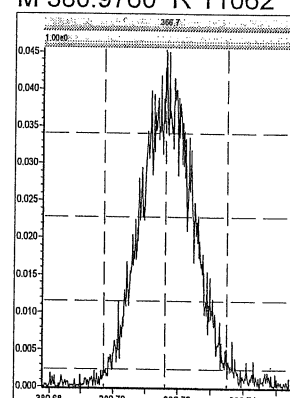
M 354.9792 R 11467



M 366.9792 R 12378



M 380.9760 R 11062



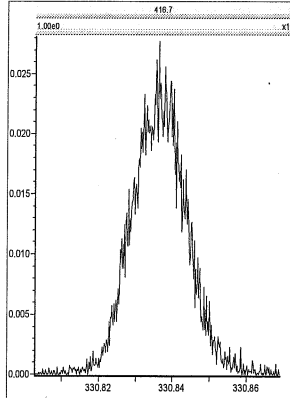
Experiment Calibration Report

MassLynx 4.1

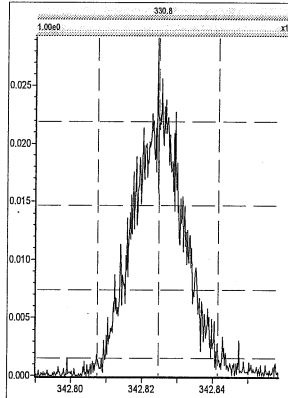
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Printed: Friday, July 10, 2009 20:34:10 Pacific Daylight Time

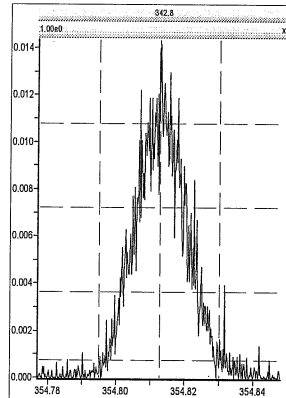
M 330.9792 R 10589



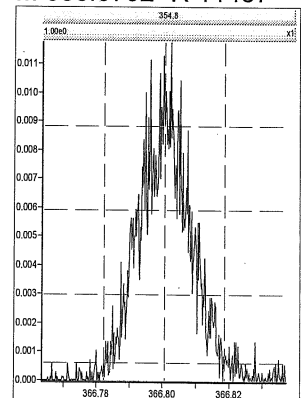
M 342.9792 R 10868



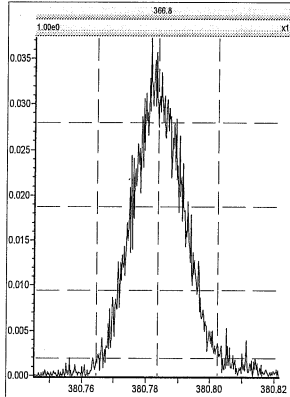
M 354.9792 R 12020



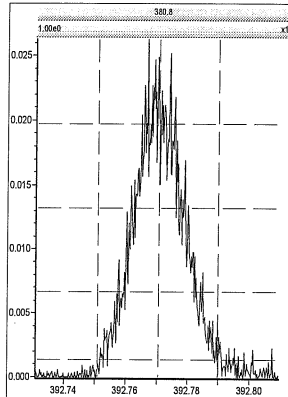
M 366.9792 R 11467



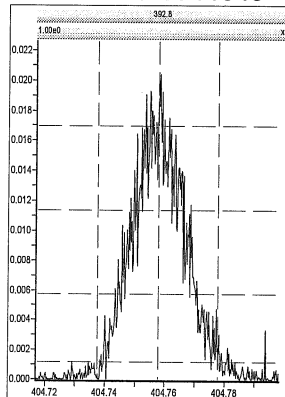
M 380.9760 R 10286



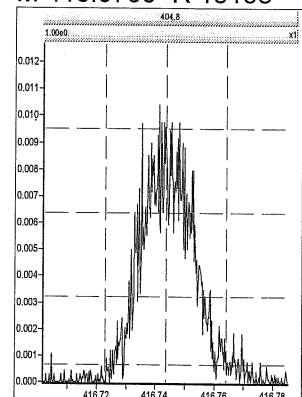
M 392.9760 R 11111



M 404.9760 R 11846



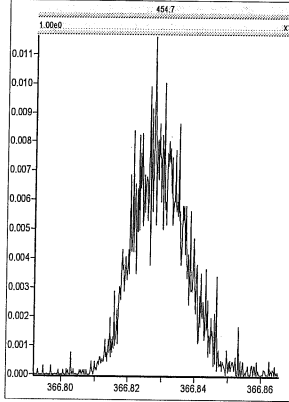
M 416.9760 R 13158



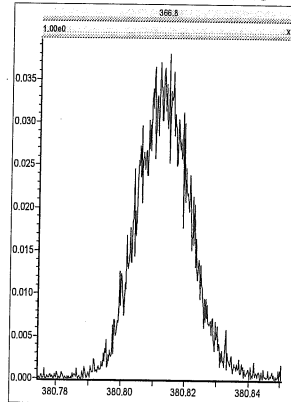
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Printed: Friday, July 10, 2009 20:34:44 Pacific Daylight Time

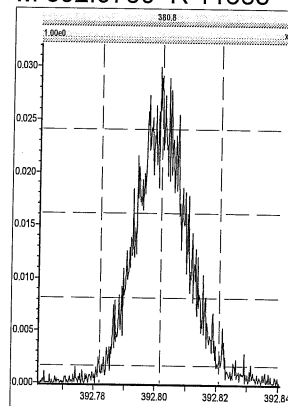
M 366.9792 R 10638



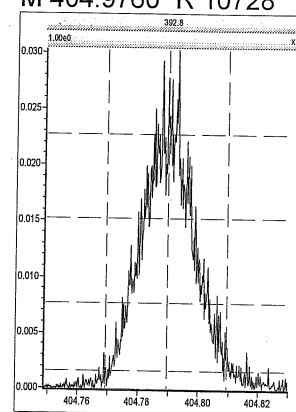
M 380.9760 R 10920



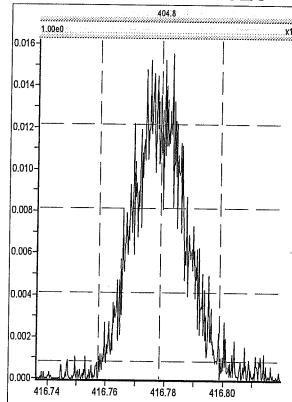
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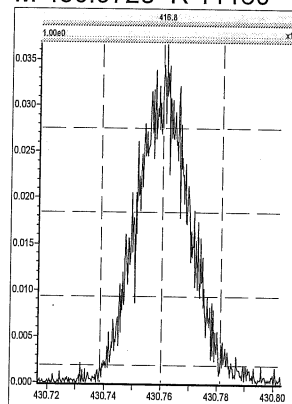
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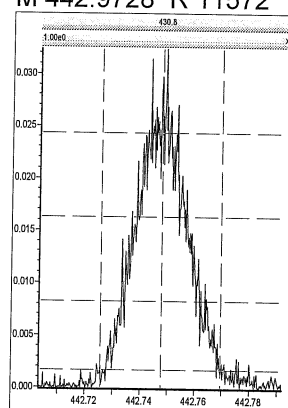
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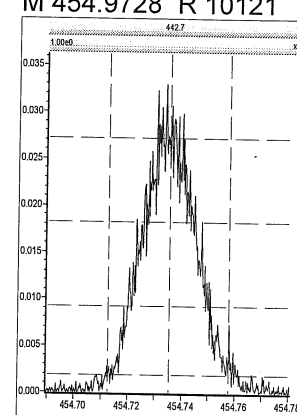
M 430.9728 R 11160



M 442.9728 R 11572



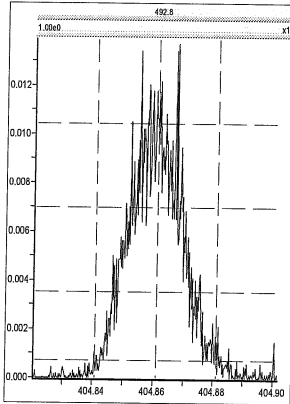
M 454.9728 R 10121



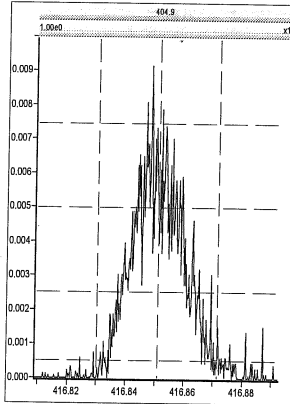
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Printed: Friday, July 10, 2009 20:35:34 Pacific Daylight Time

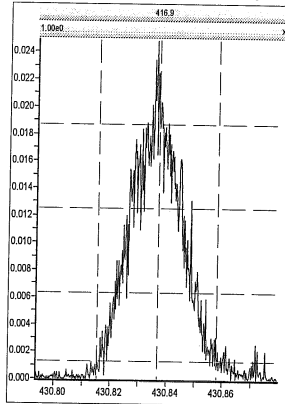
M 404.9760 R 11575



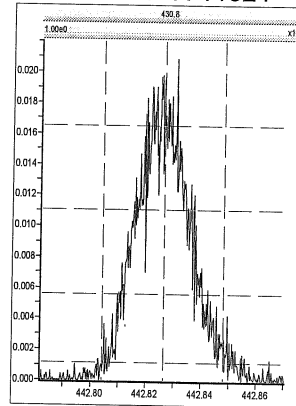
M 416.9760 R 11736



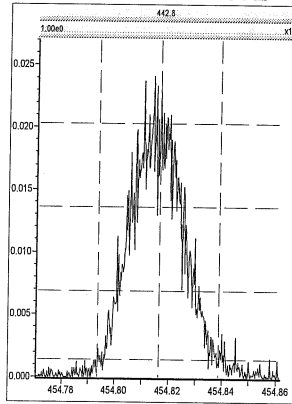
M 430.9728 R 11417



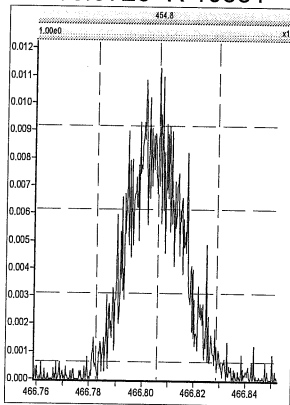
M 442.9728 R 11521



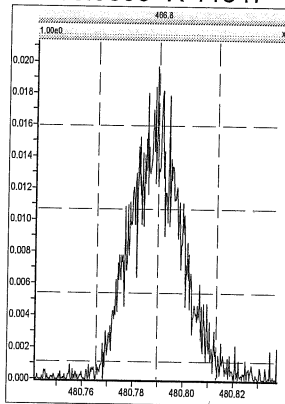
M 454.9728 R 11572



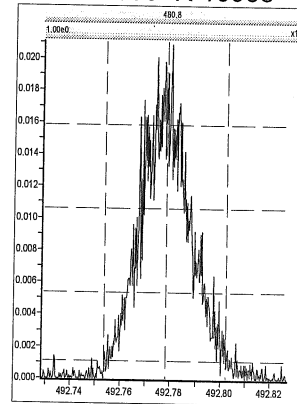
M 466.9728 R 10331



M 480.9696 R 11847



M 492.9696 R 10963



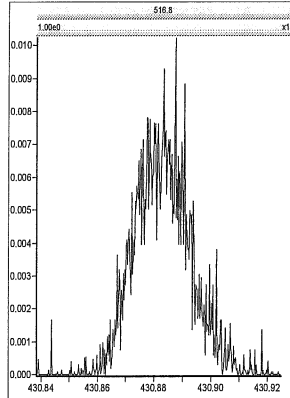
Experiment Calibration Report

MassLynx 4.1

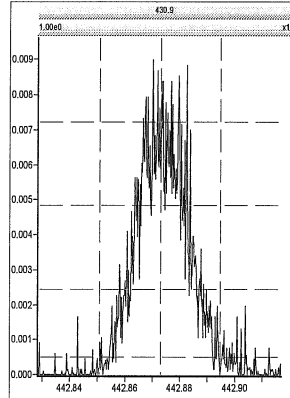
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Printed: Friday, July 10, 2009 20:36:07 Pacific Daylight Time

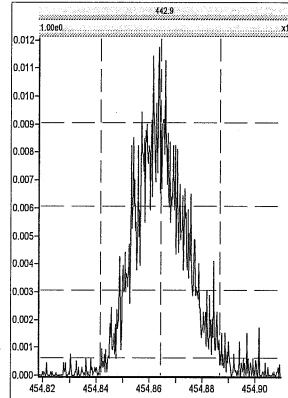
M 430.9728 R 11467



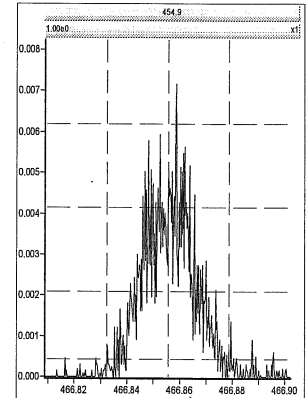
M 442.9728 R 12692



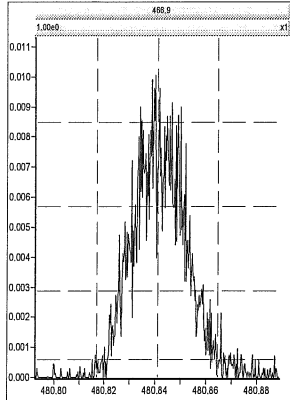
M 454.9728 R 11261



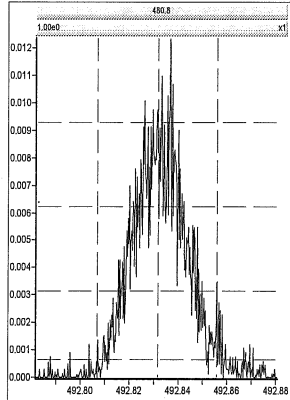
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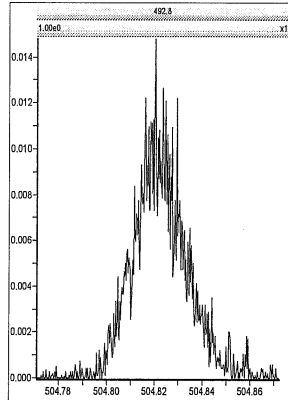
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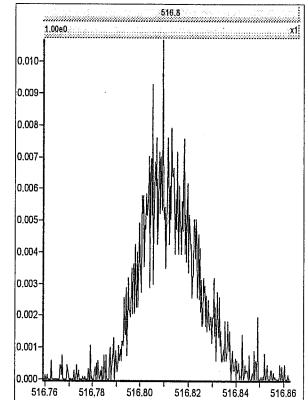
M 492.9696 R 12135



M 504.9696 R 11522



M 516.9697 R 10920



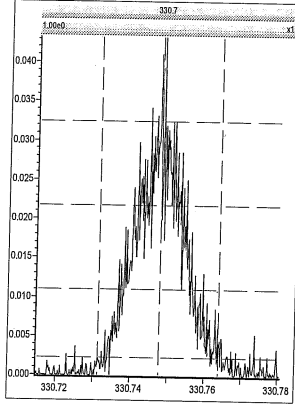
Resolution Check Report

MassLynx 4.1 *DX9M_083-CALS 5:26*

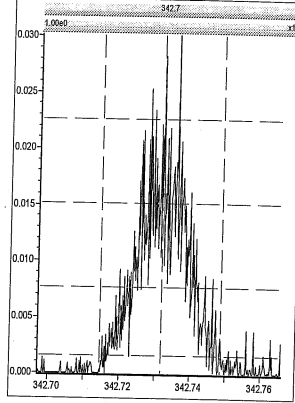
Printed: Saturday, July 11, 2009 08:51:19 Pacific Daylight Time

Approved by on 11-JUL-09

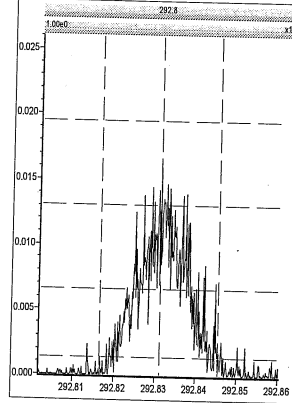
M 330.9792 R 11807



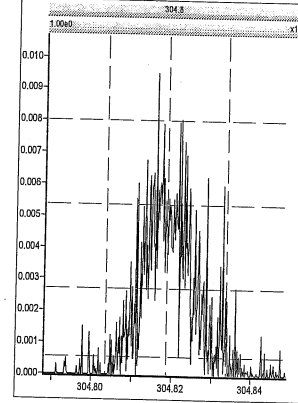
M 342.9792 R 14391



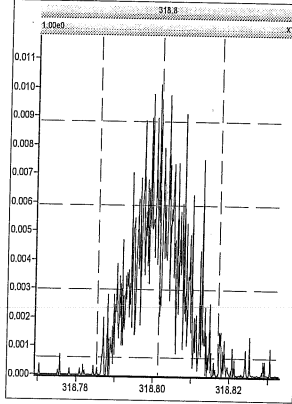
M 292.9824 R 12637



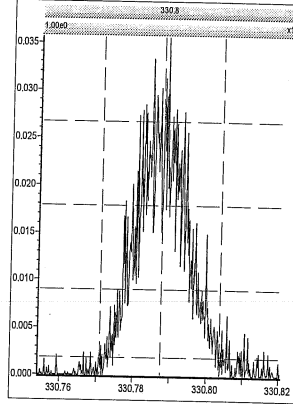
M 304.9824 R 17857



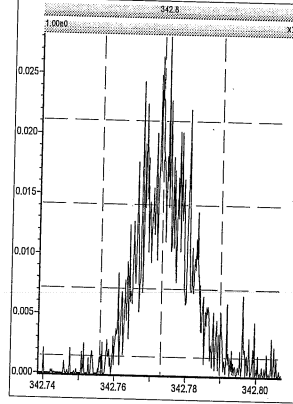
M 318.9792 R 21557



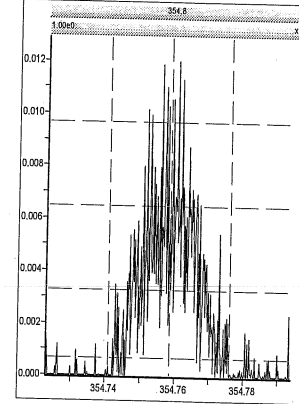
M 330.9792 R 11507



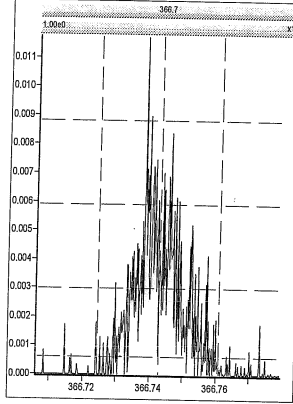
M 342.9792 R 14074



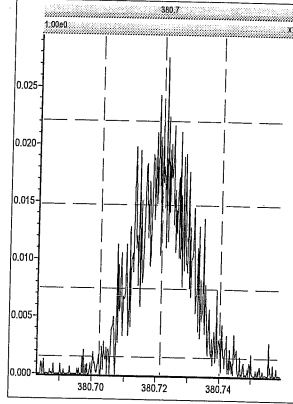
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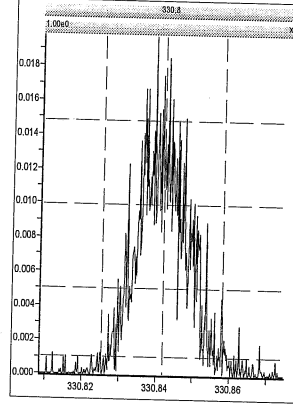
M 366.9792 R 39140



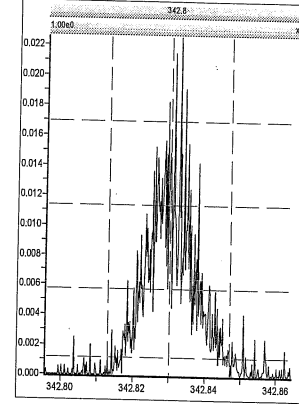
M 380.9760 R 13546



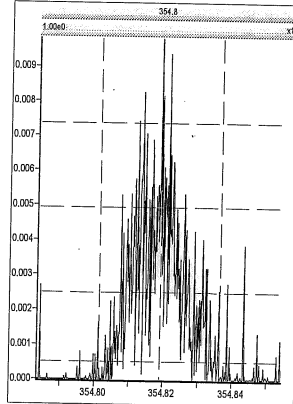
M 330.9792 R 14001



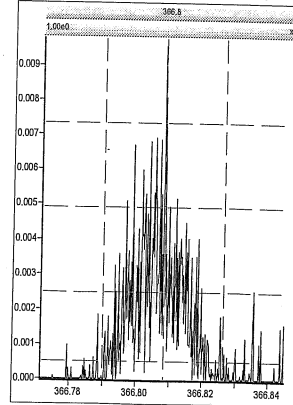
M 342.9792 R 13689



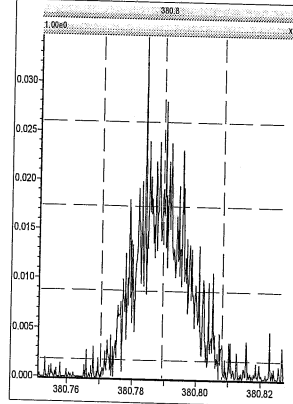
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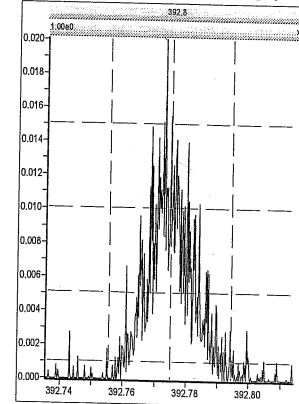
M 366.9792 R 28280



M 380.9760 R 14340



M 392.9760 R 15804

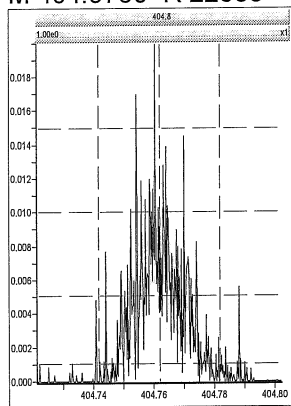


Resolution Check Report

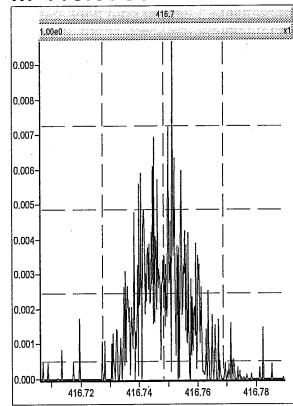
MassLynx 4.1

Printed: Saturday, July 11, 2009 08:51:19 Pacific Daylight Time

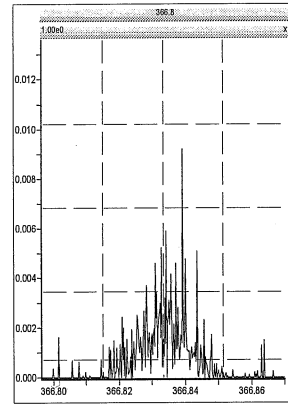
M 404.9760 R 22635



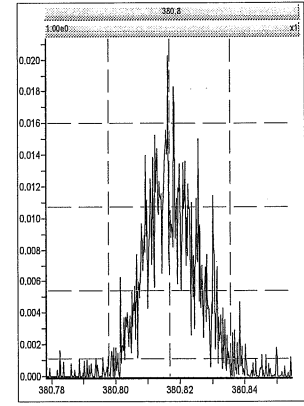
M 416.9760 R 170138



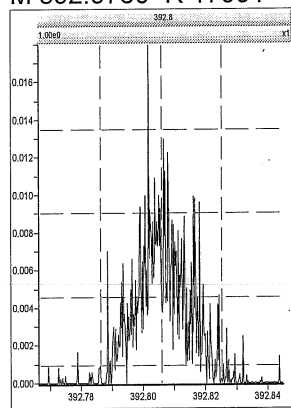
M 366.9792 R 79365



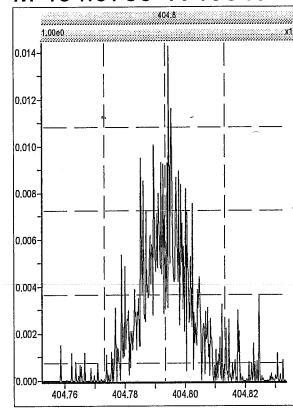
M 380.9760 R 12297



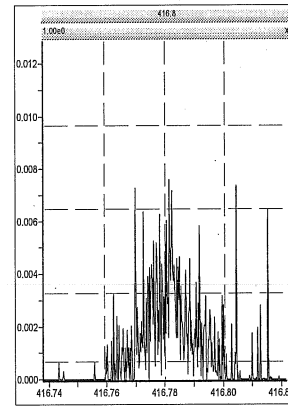
M 392.9760 R 17991



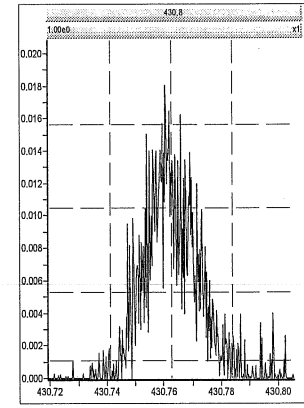
M 404.9760 R 19640



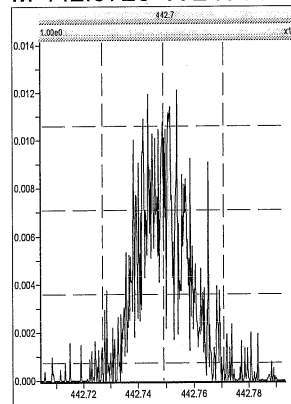
M 416.9760 R 38555



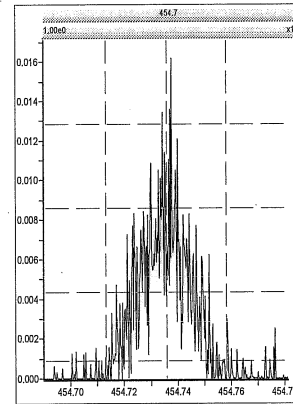
M 430.9728 R 19277



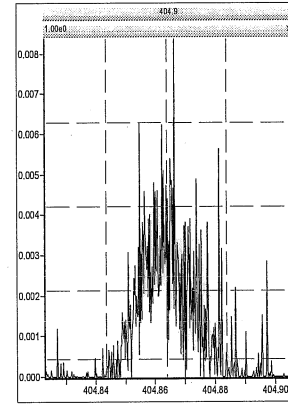
M 442.9728 R 24044



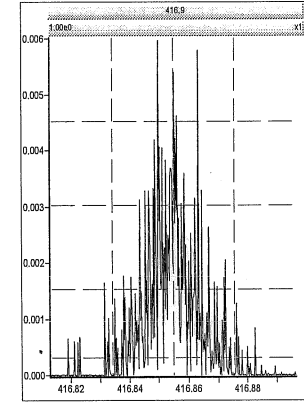
M 454.9728 R 16941



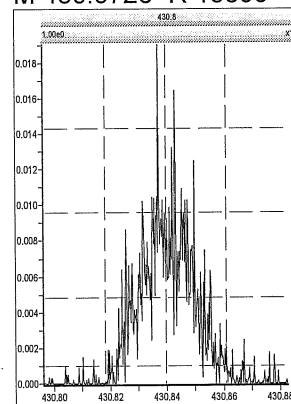
M 404.9760 R 20730



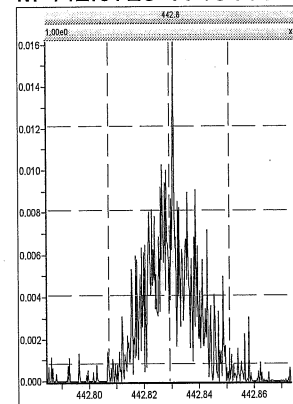
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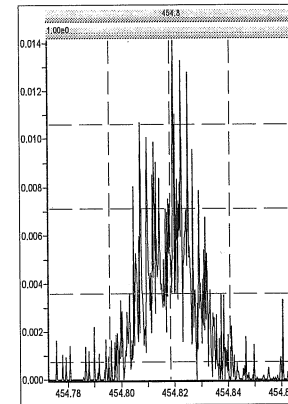
M 430.9728 R 13899



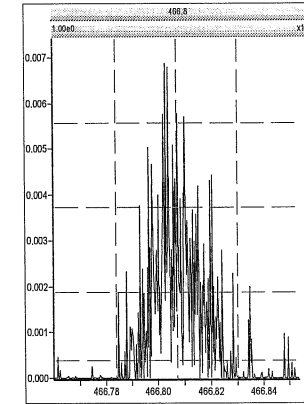
M 442.9728 R 18444



M 454.9728 R 22334



M 466.9728 R 130207

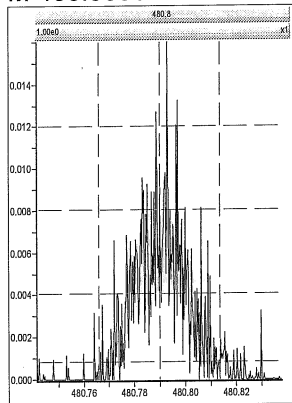


Resolution Check Report

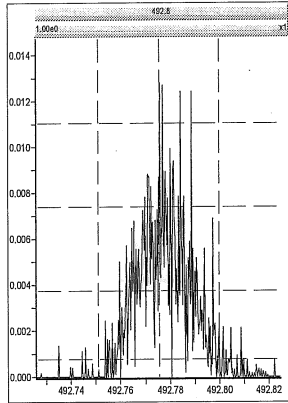
MassLynx 4.1

Printed: Saturday, July 11, 2009 08:51:19 Pacific Daylight Time

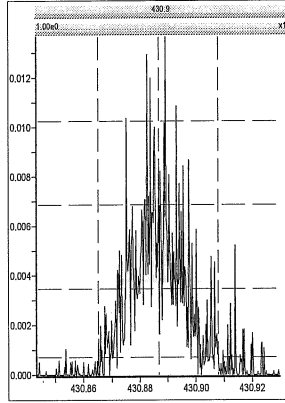
M 480.9696 R 38204



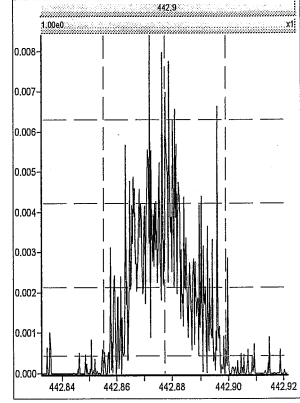
M 492.9696 R 28126



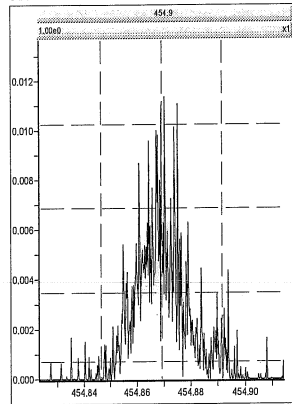
M 430.9728 R 16046



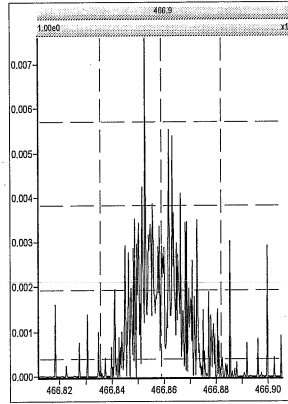
M 442.9728 R 17639



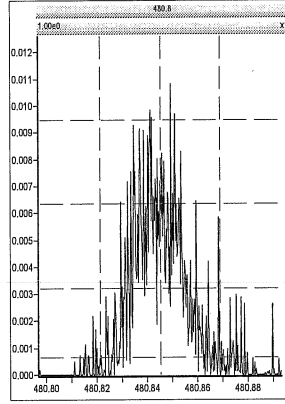
M 454.9728 R 18645



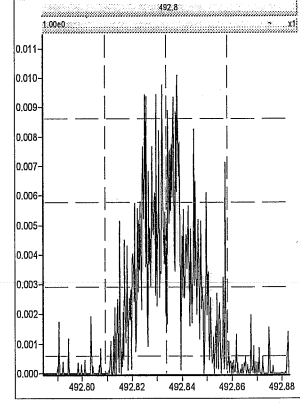
M 466.9728 R 206249



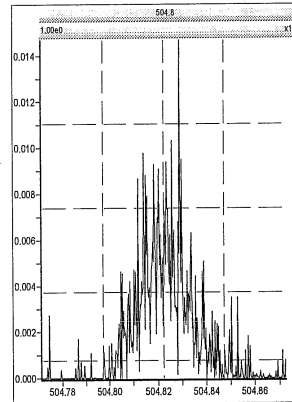
M 480.9696 R 16999



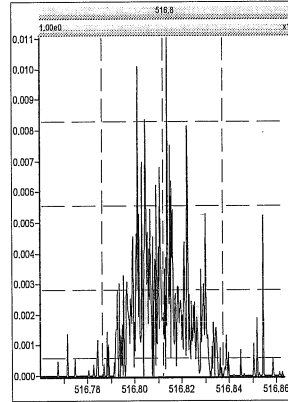
M 492.9696 R 21071



M 504.9696 R 23425



M 516.9697 R 143914



Axys Analytical Services, Ltd.

DX9M-083-A

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44

Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Compound name: -

#	Name	ID	Sample Text	Acq. Date	Acq. Time
1	DX9M_083S1	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	08:18:53
2	DX9M_083S2	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	09:25:02
3	DX9M_083S3	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	10:17:19
4	DX9M_083S4	WG29271-101,I2,Blank	1,WG29271,1.0/20uL	10-Jul-09	11:12:16
5	DX9M_083S5	L12912-1,I,	1,WG29271,1.0/20uL	10-Jul-09	12:07:12
6	DX9M_083S6	L12912-3,I,	1,WG29271,1.0/20uL	10-Jul-09	13:02:08
7	DX9M_083S7	L12912-4,I,	1,WG29271,1.0/20uL	10-Jul-09	13:57:05
8	DX9M_083S8	L12912-5,I,	1,WG29271,1.0/20uL	10-Jul-09	14:52:03
9	DX9M_083S9	L12912-6,I,	1,WG29271,1.0/20uL	10-Jul-09	15:46:59
10	DX9M_083S10	L12912-7,,	1,WG29271,1.0/20uL	10-Jul-09	16:41:56
11	DX9M_083S11	L12912-8,,	1,WG29271,1.0/20uL	10-Jul-09	17:36:52
12	DX9M_083S12	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	18:31:49



Axys Analytical Services, Ltd.

DX9M_083-C

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44

Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Compound name: -

#	Name	ID	Sample Text	Acq Date	Acq Time
1	DX9M_083S14	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	20:37:20
2	DX9M_083S17	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	23:20:46
3	DX9M_083S18	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	00:15:46
4	DX9M_083S23	L12912-9,,	1,WG29271,1.0/20uL	11-Jul-09	04:50:34
5	DX9M_083S24	WG29271-103,,DUP	1,WG29271,1.0/20uL	11-Jul-09	05:45:32
6	DX9M_083S25	WG29271-104,,CRM	1,WG29271,1.0/20uL	11-Jul-09	06:40:28
7	DX9M_083S26	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	11-Jul-09	07:47:15



AXYS METHOD MLA-017 Rev 16

Form 4A
PCDD/PCDF CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009 VER Data Filename: DX9M_083 S: 1
Instrument ID: HR GC/MS Analysis Date: 10-Jul-2009
GC Column ID: DB5 Analysis Time: 08:18:53

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
2,3,7,8-TCDD		M/M+2	0.76	0.65-0.89	10.6	8.6 - 14.2
1,2,3,7,8-PECDD ⁵		M/M+2	0.60	0.51-0.70	50.8	41 - 67.6
1,2,3,4,7,8-HXCDD		M+2/M+4	1.21	1.05-1.43	56.0	44 - 72.3
1,2,3,6,7,8-HXCDD		M+2/M+4	1.21	1.05-1.43	55.8	43 - 71
1,2,3,7,8,9-HXCDD		M+2/M+4	1.21	1.05-1.43	55.6	44 - 65.9
1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.01	0.88-1.20	49.0	41 - 55.1
OCDD		M+2/M+4	0.87	0.76-1.02	98.4	79 - 126
2,3,7,8-TCDF		M/M+2	0.74	0.65-0.89	11.3	9 - 12.8
1,2,3,7,8-PECDF		M+2/M+4	1.51	1.32-1.78	48.5	38 - 55.2
2,3,4,7,8-PECDF		M+2/M+4	1.52	1.32-1.78	49.1	39 - 57.3
1,2,3,4,7,8-HXCDF		M+2/M+4	1.21	1.05-1.43	53.2	45 - 56
1,2,3,6,7,8-HXCDF		M+2/M+4	1.22	1.05-1.43	50.2	42 - 54.2
1,2,3,7,8,9-HXCDF		M+2/M+4	1.21	1.05-1.43	51.5	47 - 58.8
2,3,4,6,7,8-HXCDF		M+2/M+4	1.19	1.05-1.43	55.1	47 - 60.4
1,2,3,4,6,7,8-HPCDF		M+2/M+4	1.00	0.88-1.20	55.3	45 - 55
1,2,3,4,7,8,9-HPCDF		M+2/M+4	1.00	0.88-1.20	54.7	43 - 58
OCDF		M+2/M+4	0.88	0.76-1.02	106	66 - 165

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.
- (5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Laura Luo _____ QA/QC Chemist

AXYS METHOD MLA-017 Rev 16

Form 4B
PCDD/PCDF CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009

VER Data Filename: DX9M_083 S: 1

Instrument ID: HR GC/MS

Analysis Date: 10-Jul-2009

GC Column ID: DB5

Analysis Time: 08:18:53

LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴	
LABELLED COMPOUND						
	13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	106	82 - 121
	13C-1,2,3,7,8-PECDD ⁵	M/M+2	0.62	0.51-0.70	121	62 - 160
	13C-1,2,3,4,7,8-HXCDD	M+2/M+4	1.27	1.05-1.43	96.7	85 - 117
	13C-1,2,3,6,7,8-HXCDD	M+2/M+4	1.25	1.05-1.43	94.0	85 - 118
	13C-1,2,3,4,6,7,8-HPCDD	M+2/M+4	1.02	0.88-1.20	94.7	72 - 138
	13C-OCDD	M+2/M+4	0.90	0.76-1.02	170	96 - 415
	13C-2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	109	71 - 140
	13C-1,2,3,7,8-PECDF	M+2/M+4	1.53	1.32-1.78	118	76 - 130
	13C-2,3,4,7,8-PECDF	M+2/M+4	1.52	1.32-1.78	116	77 - 130
	13C-1,2,3,4,7,8-HXCDF	M/M+2	0.50	0.43-0.59	98.5	76 - 131
	13C-1,2,3,6,7,8-HXCDF	M/M+2	0.51	0.43-0.59	99.0	70 - 143
	13C-1,2,3,7,8,9-HXCDF	M/M+2	0.50	0.43-0.59	97.3	74 - 135
	13C-2,3,4,6,7,8-HXCDF	M/M+2	0.50	0.43-0.59	94.6	73 - 137
	13C-1,2,3,4,6,7,8-HPCDF	M/M+2	0.44	0.37-0.51	104	78 - 129
	13C-1,2,3,4,7,8,9-HPCDF	M/M+2	0.44	0.37-0.51	98.0	77 - 129
CLEANUP STANDARD						
	37CL-2,3,7,8-TCDD ⁶			11.6	7.9 - 12.7	

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.
- (5) Alternate confirmation and quantitation ions used for native and labeled PECDD.
- (6) No ion abundance ratio for 37Cl4-2,3,7,8-TCDD; concentration reported.

Approved by: _____ Laura Luo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009 VER Data Filename: DX9M_083 S: 1
Instrument ID: HR GC/MS Analysis Date: 10-Jul-2009
GC Column ID: DB5 Analysis Time: 08:18:53

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
2,3,7,8-TCDD		13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PECDD ³		13C-1,2,3,7,8-PECDD	1.001	0.999-1.002
1,2,3,4,7,8-HXCDD		13C-1,2,3,4,7,8-HXCDD	1.000	0.999-1.001
1,2,3,6,7,8-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.000	0.998-1.004
1,2,3,7,8,9-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.000	1.000-1.019
1,2,3,4,6,7,8-HPCDD		13C-1,2,3,4,6,7,8-HPCDD	1.000	0.999-1.001
OCDD		13C-OCDD	1.000	0.999-1.001
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PECDF		13C-1,2,3,7,8-PECDF	1.001	0.999-1.002
2,3,4,7,8-PECDF		13C-2,3,4,7,8-PECDF	1.000	0.999-1.002
1,2,3,4,7,8-HXCDF		13C-1,2,3,4,7,8-HXCDF	1.000	0.999-1.001
1,2,3,6,7,8-HXCDF		13C-1,2,3,6,7,8-HXCDF	1.001	0.997-1.005
1,2,3,7,8,9-HXCDF		13C-1,2,3,7,8,9-HXCDF	1.000	0.999-1.001
2,3,4,6,7,8-HXCDF		13C-2,3,4,6,7,8-HXCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HPCDF		13C-1,2,3,4,6,7,8-HPCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HPCDF		13C-1,2,3,4,7,8,9-HPCDF	1.000	0.999-1.001
OCDF		13C-OCDD	1.002	0.999-1.008

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Laura Luo _____ QA/QC Chemist

AXYS METHOD MLA-017 Rev 16

Form 6B
PCDD/PCDF RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009 VER Data Filename: DX9M_083 S: 1
Instrument ID: HR GC/MS Analysis Date: 10-Jul-2009
GC Column ID: DB5 Analysis Time: 08:18:53

LABELLED COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
13C-2,3,7,8-TCDD		13C-1,2,3,4-TCDD	1.013	0.976-1.043
13C-1,2,3,7,8-PECDD		13C-1,2,3,4-TCDD	1.381	1.000-1.567
13C-1,2,3,4,7,8-HXCDD		13C-1,2,3,7,8,9-HXCDD	0.987	0.977-1.000
13C-1,2,3,6,7,8-HXCDD		13C-1,2,3,7,8,9-HXCDD	0.990	0.981-1.003
13C-1,2,3,4,6,7,8-HPCDD		13C-1,2,3,7,8,9-HXCDD	1.094	1.086-1.110
13C-OCDD		13C-1,2,3,7,8,9-HXCDD	1.177	1.032-1.311
13C-2,3,7,8-TCDF		13C-1,2,3,4-TCDD	0.966	0.923-1.103
13C-1,2,3,7,8-PECDF		13C-1,2,3,4-TCDD	1.283	1.000-1.425
13C-2,3,4,7,8-PECDF		13C-1,2,3,4-TCDD	1.350	1.011-1.526
13C-1,2,3,4,7,8-HXCDF		13C-1,2,3,7,8,9-HXCDD	0.955	0.944-0.970
13C-1,2,3,6,7,8-HXCDF		13C-1,2,3,7,8,9-HXCDD	0.958	0.949-0.975
13C-1,2,3,7,8,9-HXCDF		13C-1,2,3,7,8,9-HXCDD	1.005	0.977-1.047
13C-2,3,4,6,7,8-HXCDF		13C-1,2,3,7,8,9-HXCDD	0.981	0.959-1.021
13C-1,2,3,4,6,7,8-HPCDF		13C-1,2,3,7,8,9-HXCDD	1.062	1.043-1.085
13C-1,2,3,4,7,8,9-HPCDF		13C-1,2,3,7,8,9-HXCDD	1.104	1.057-1.151
CLEANUP STANDARD				
37CL-2,3,7,8-TCDD		13C-1,2,3,4-TCDD	1.013	0.989-1.052

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Approved by: _____ Laura Luo _____ QA/QC Chemist

AXYS METHOD MLA-017 Rev 16

Form 4A
PCDD/PCDF CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009 VER Data Filename: DX9M_083 S: 14
Instrument ID: HR GC/MS Analysis Date: 10-Jul-2009
GC Column ID: DB5 Analysis Time: 20:37:20

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
2,3,7,8-TCDD		M/M+2	0.77	0.65-0.89	10.4	8.6 - 14.2
1,2,3,7,8-PECDD ⁵		M/M+2	0.61	0.51-0.70	52.3	41 - 67.6
1,2,3,4,7,8-HXCDD		M+2/M+4	1.23	1.05-1.43	54.9	44 - 72.3
1,2,3,6,7,8-HXCDD		M+2/M+4	1.22	1.05-1.43	54.8	43 - 71
1,2,3,7,8,9-HXCDD		M+2/M+4	1.21	1.05-1.43	56.9	44 - 65.9
1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.00	0.88-1.20	48.4	41 - 55.1
OCDD		M+2/M+4	0.88	0.76-1.02	99.8	79 - 126
2,3,7,8-TCDF		M/M+2	0.75	0.65-0.89	11.2	9 - 12.8
1,2,3,7,8-PECDF		M+2/M+4	1.49	1.32-1.78	47.5	38 - 55.2
2,3,4,7,8-PECDF		M+2/M+4	1.50	1.32-1.78	49.4	39 - 57.3
1,2,3,4,7,8-HXCDF		M+2/M+4	1.21	1.05-1.43	53.4	45 - 56
1,2,3,6,7,8-HXCDF		M+2/M+4	1.21	1.05-1.43	52.4	42 - 54.2
1,2,3,7,8,9-HXCDF		M+2/M+4	1.21	1.05-1.43	55.7	47 - 58.8
2,3,4,6,7,8-HXCDF		M+2/M+4	1.11	1.05-1.43	54.4	47 - 60.4
1,2,3,4,6,7,8-HPCDF		M+2/M+4	1.00	0.88-1.20	54.4	45 - 55
1,2,3,4,7,8,9-HPCDF		M+2/M+4	0.98	0.88-1.20	56.1	43 - 58
OCDF		M+2/M+4	0.88	0.76-1.02	108	66 - 165

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.
- (5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Laura Luo _____ QA/QC Chemist



AXYS METHOD MLA-017 Rev 16

**Form 4B
PCDD/PCDF CALIBRATION VERIFICATION**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009

VER Data Filename: DX9M_083 S: 14

Instrument ID: HR GC/MS

Analysis Date: 10-Jul-2009

GC Column ID: DB5

Analysis Time: 20:37:20

LABELLED COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
13C-2,3,7,8-TCDD		M/M+2	0.78	0.65-0.89	105	82 - 121
13C-1,2,3,7,8-PECDD ⁵		M/M+2	0.62	0.51-0.70	109	62 - 160
13C-1,2,3,4,7,8-HXCDD		M+2/M+4	1.24	1.05-1.43	101	85 - 117
13C-1,2,3,6,7,8-HXCDD		M+2/M+4	1.24	1.05-1.43	91.6	85 - 118
13C-1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.02	0.88-1.20	101	72 - 138
13C-OCDD		M+2/M+4	0.88	0.76-1.02	163	96 - 415
13C-2,3,7,8-TCDF		M/M+2	0.77	0.65-0.89	106	71 - 140
13C-1,2,3,7,8-PECDF		M+2/M+4	1.51	1.32-1.78	99.2	76 - 130
13C-2,3,4,7,8-PECDF		M+2/M+4	1.56	1.32-1.78	103	77 - 130
13C-1,2,3,4,7,8-HXCDF		M/M+2	0.50	0.43-0.59	96.6	76 - 131
13C-1,2,3,6,7,8-HXCDF		M/M+2	0.51	0.43-0.59	86.9	70 - 143
13C-1,2,3,7,8,9-HXCDF		M/M+2	0.51	0.43-0.59	95.0	74 - 135
13C-2,3,4,6,7,8-HXCDF		M/M+2	0.51	0.43-0.59	92.8	73 - 137
13C-1,2,3,4,6,7,8-HPCDF		M/M+2	0.44	0.37-0.51	102	78 - 129
13C-1,2,3,4,7,8,9-HPCDF		M/M+2	0.44	0.37-0.51	99.0	77 - 129
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD ⁶					11.5	7.9 - 12.7

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.
- (5) Alternate confirmation and quantitation ions used for native and labeled PECDD.
- (6) No ion abundance ratio for 37Cl4-2,3,7,8-TCDD; concentration reported.

Approved by: _____ Laura Luo _____ QA/QC Chemist

AXYS METHOD MLA-017 Rev 16

Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009 VER Data Filename: DX9M_083 S: 14
Instrument ID: HR GC/MS Analysis Date: 10-Jul-2009
GC Column ID: DB5 Analysis Time: 20:37:20

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
2,3,7,8-TCDD		13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PECDD ³		13C-1,2,3,7,8-PECDD	1.001	0.999-1.002
1,2,3,4,7,8-HXCDD		13C-1,2,3,4,7,8-HXCDD	1.000	0.999-1.001
1,2,3,6,7,8-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.000	0.998-1.004
1,2,3,7,8,9-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.000	1.000-1.019
1,2,3,4,6,7,8-HPCDD		13C-1,2,3,4,6,7,8-HPCDD	1.000	0.999-1.001
OCDD		13C-OCDD	1.000	0.999-1.001
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PECDF		13C-1,2,3,7,8-PECDF	1.001	0.999-1.002
2,3,4,7,8-PECDF		13C-2,3,4,7,8-PECDF	1.000	0.999-1.002
1,2,3,4,7,8-HXCDF		13C-1,2,3,4,7,8-HXCDF	1.000	0.999-1.001
1,2,3,6,7,8-HXCDF		13C-1,2,3,6,7,8-HXCDF	1.000	0.997-1.005
1,2,3,7,8,9-HXCDF		13C-1,2,3,7,8,9-HXCDF	1.000	0.999-1.001
2,3,4,6,7,8-HXCDF		13C-2,3,4,6,7,8-HXCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HPCDF		13C-1,2,3,4,6,7,8-HPCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HPCDF		13C-1,2,3,4,7,8,9-HPCDF	1.000	0.999-1.001
OCDF		13C-OCDD	1.002	0.999-1.008

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____ Laura Luo _____ QA/QC Chemist

AXYS METHOD MLA-017 Rev 16

Form 6B
PCDD/PCDF RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 19-Jun-2009 VER Data Filename: DX9M_083 S: 14
Instrument ID: HR GC/MS Analysis Date: 10-Jul-2009
GC Column ID: DB5 Analysis Time: 20:37:20

LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
LABELLED COMPOUND			
	13C-1,2,3,4-TCDD	1.013	0.976-1.043
	13C-1,2,3,4-TCDD	1.383	1.000-1.567
	13C-1,2,3,7,8,9-HXCDD	0.987	0.977-1.000
	13C-1,2,3,7,8,9-HXCDD	0.990	0.981-1.003
	13C-1,2,3,4,6,7,8-HPCDD	1.094	1.086-1.110
	13C-1,2,3,7,8,9-HXCDD	1.177	1.032-1.311
	13C-1,2,3,4-TCDD	0.966	0.923-1.103
	13C-1,2,3,4-TCDD	1.284	1.000-1.425
	13C-1,2,3,4-TCDD	1.352	1.011-1.526
	13C-1,2,3,4,7,8-HXCDD	0.954	0.944-0.970
	13C-1,2,3,7,8,9-HXCDD	0.958	0.949-0.975
	13C-1,2,3,7,8,9-HXCDD	1.005	0.977-1.047
	13C-1,2,3,7,8,9-HXCDD	0.980	0.959-1.021
	13C-1,2,3,4,6,7,8-HPCDF	1.061	1.043-1.085
	13C-1,2,3,7,8,9-HXCDD	1.103	1.057-1.151
CLEANUP STANDARD			
	13C-1,2,3,4-TCDD	1.013	0.989-1.052

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Approved by: _____ Laura Luo _____ QA/QC Chemist

AXYS METHOD MLA-017 Rev 16

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Instrument ID:	HR GC/MS	Initial Calibration Date:	19-Jun-2009
RT Window Data Filename:	DX9M_083 S: 1	Analysis Date:	10-Jul-2009
DB-5 IS Data Filename:	DX9M_083 S: 1	Analysis Date:	10-Jul-2009
DB-225 IS Data Filename:		Analysis Date:	
		Time:	08:18:53
		Time:	08:18:53
		Time:	

DB5 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:01	1,3,6,8-TCDF (F)	21:29
1,2,8,9-TCDD (L)	28:25	1,2,8,9-TCDF (L)	28:16
1,2,4,7,9-PECDD (F)	32:11	1,3,4,6,8-PECDF (F)	28:58
1,2,3,8,9-PECDD (L)	37:07	1,2,3,8,9-PECDF (L)	37:11
1,2,4,6,7,9-HXCDD (F)	40:05	1,2,3,4,6,8-HXCDF (F)	39:02
1,2,3,4,6,7-HXCDD (L)	42:41	1,2,3,4,8,9-HXCDF (L)	43:02
1,2,3,4,6,7,9-HPCDD (F)	45:47	1,2,3,4,6,7,8-HPCDF (F)	45:20
1,2,3,4,6,7,8-HPCDD (L)	46:42	1,2,3,4,7,8,9-HPCDF (L)	47:07

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	0	1,2,3,8-TCDD 2,3,7,8-TCDD	22
1,2,7,8-TCDD 1,4,7,8-TCDD	0	2,3,4,7-TCDF 2,3,7,8-TCDF	N/A
1,4,7,8-TCDD 1,2,3,7-TCDD	0	2,3,7,8-TCDF 1,2,3,9-TCDF	N/A
1,2,3,7-TCDD 1,2,3,8-TCDD	DB-5 column; co-elute as per Figure 6 in Method		

Approved by: _____ Laura Luo _____ QA/QC Chemist



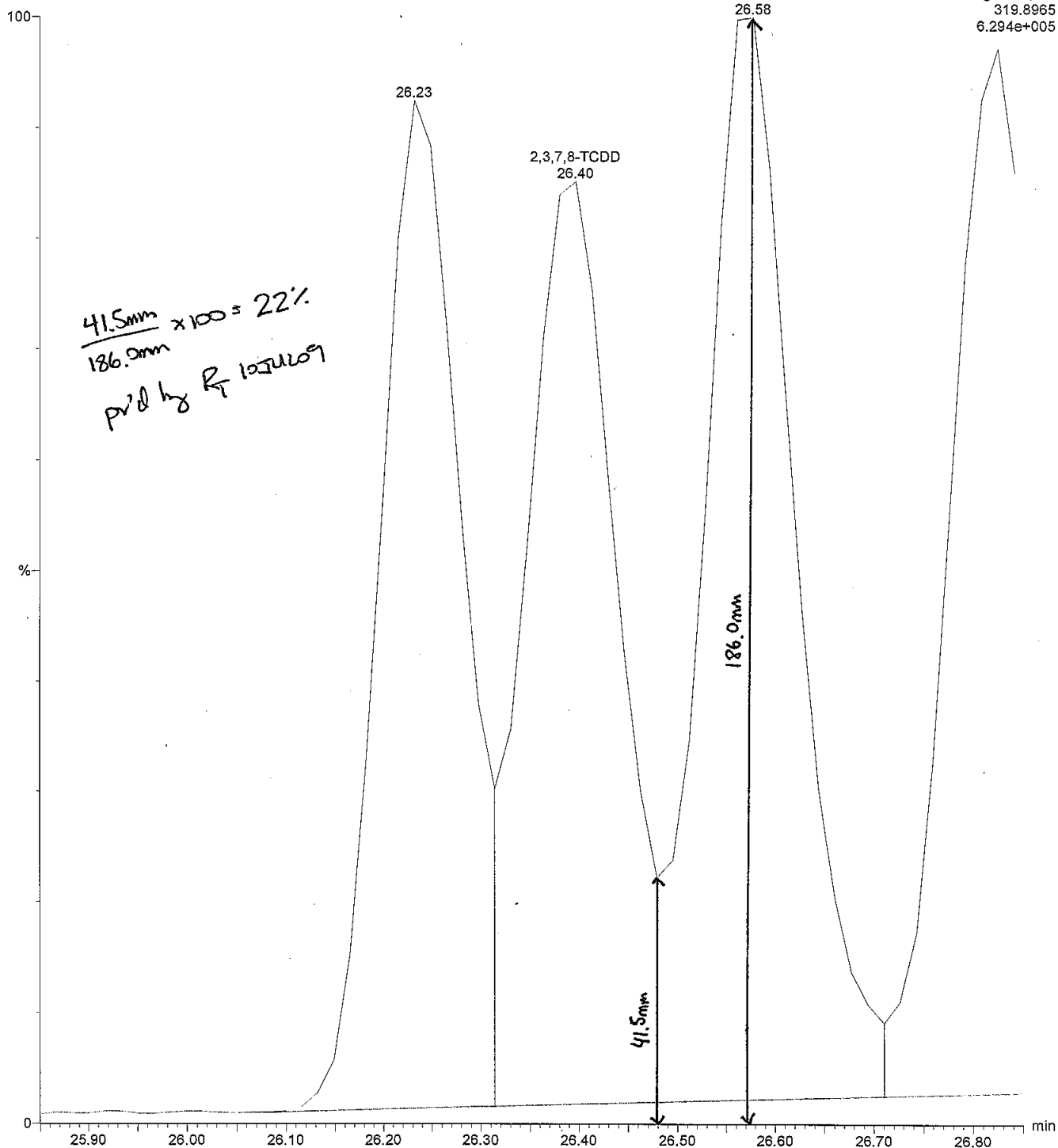
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Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

2,3,7,8-TCDD

DX9M_083S1 Smooth(SG,1x2)

F3: Voltage SIR.EI+
319.8965
6.294e+005



AXYS METHOD MLA-017 Rev 16

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Instrument ID:	HR GC/MS	Initial Calibration Date:	19-Jun-2009
RT Window Data Filename:	DX9M_083 S: 14	Analysis Date:	10-Jul-2009
DB-5 IS Data Filename:	DX9M_083 S: 14	Analysis Date:	10-Jul-2009
DB-225 IS Data Filename:		Analysis Date:	
		Time:	20:37:20
		Time:	20:37:20
		Time:	

DB5 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:56	1,3,6,8-TCDF (F)	21:25
1,2,8,9-TCDD (L)	28:19	1,2,8,9-TCDF (L)	28:10
1,2,4,7,9-PECDD (F)	32:04	1,3,4,6,8-PECDF (F)	28:53
1,2,3,8,9-PECDD (L)	37:04	1,2,3,8,9-PECDF (L)	37:07
1,2,4,6,7,9-HXCDD (F)	40:02	1,2,3,4,6,8-HXCDF (F)	39:00
1,2,3,4,6,7-HXCDD (L)	42:40	1,2,3,4,8,9-HXCDF (L)	42:59
1,2,3,4,6,7,9-HPCDD (F)	45:45	1,2,3,4,6,7,8-HPCDF (F)	45:17
1,2,3,4,6,7,8-HPCDD (L)	46:39	1,2,3,4,7,8,9-HPCDF (L)	47:04

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	0	1,2,3,8-TCDD 2,3,7,8-TCDD	9.5
1,2,7,8-TCDD 1,4,7,8-TCDD	0	2,3,4,7-TCDF 2,3,7,8-TCDF	N/A
1,4,7,8-TCDD 1,2,3,7-TCDD	0	2,3,7,8-TCDF 1,2,3,9-TCDF	N/A
1,2,3,7-TCDD 1,2,3,8-TCDD	DB-5 column; co-elute as per Figure 6 in Method		

Approved by: _____ Laura Luo _____ QA/QC Chemist



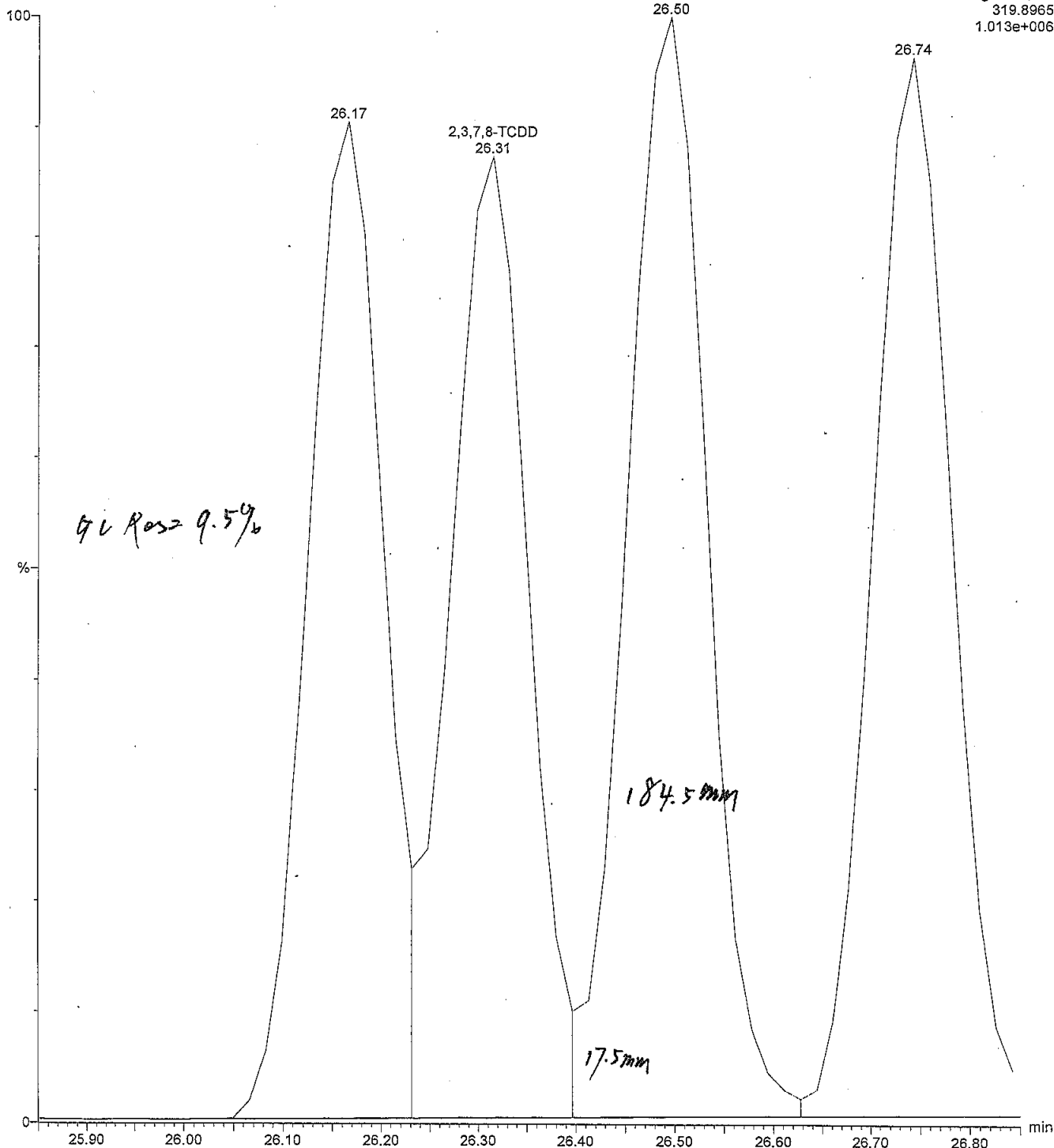
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2,3,7,8-TCDD

DX9M_083S14 Smooth(SG,1x2)

F3:Voltage SIR,EI+
319.8965
1.013e+006



PV BY OUL
15-July
Page 162 of 628

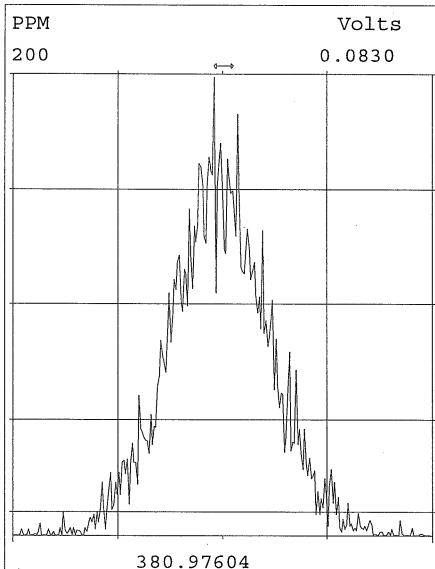
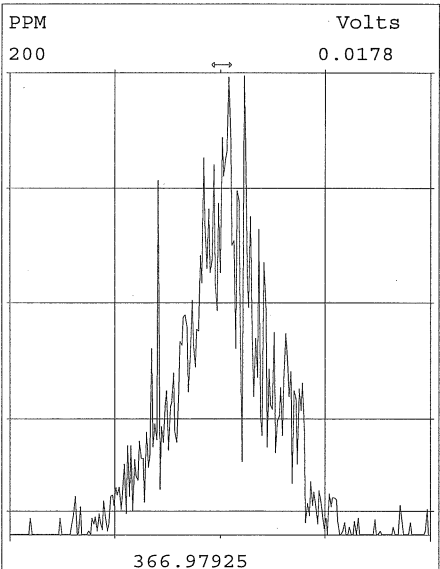
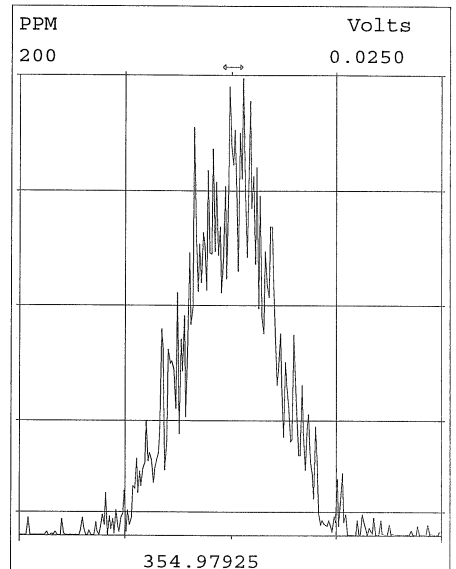
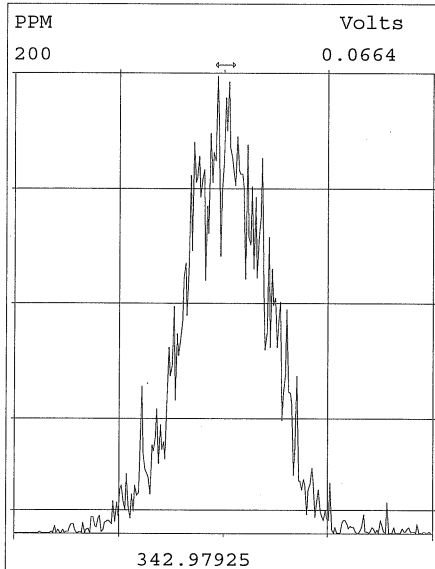
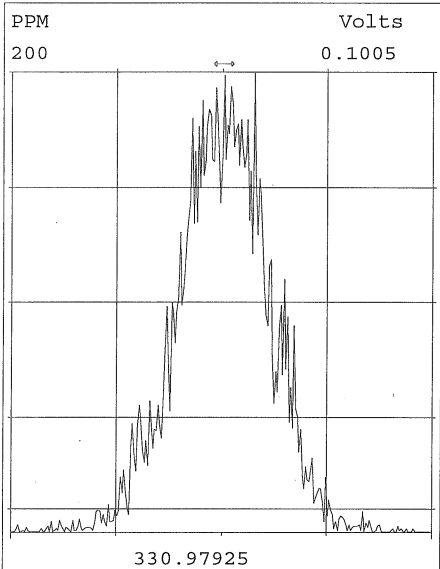
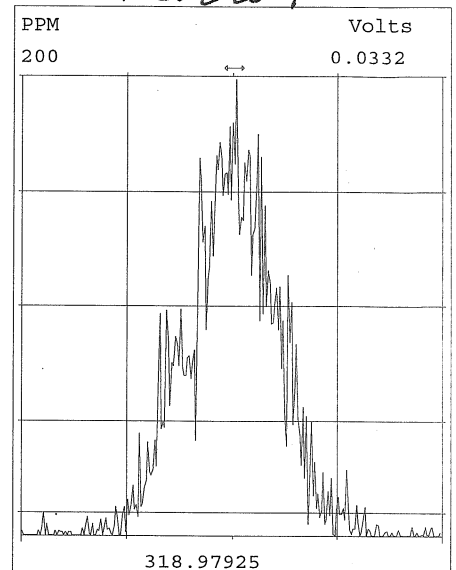
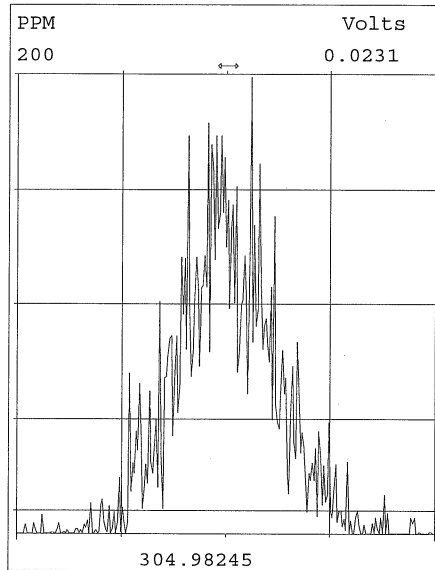
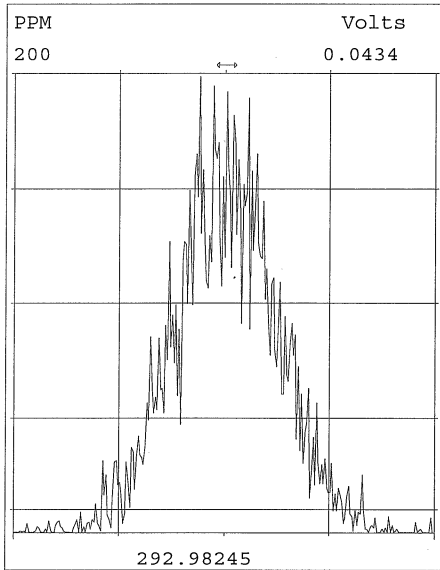
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GC Program : DX-DB225-1_02	-s resv: 160	List : RT	-liner : 08-Jul-2009
Column type : DB-225	-re_ent: 220	Check :	-septum: 08-Jul-2009
Serial # : US5436814H+5M	-cap_1 : 220	LIMS :	-guard : 60cm 17-Jul-09
kPa : 180	-cap_2 : 220	Logfile:	-column: COMB 09-JUL-09
Vol injected: 2.0uL			-t line: 31cm 24-Jun-09
PMT Voltage : 399			

#	Data file	S	V	Sample Text	Comments	Acquisition Date/Time
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2	DB93_148	2	2	DX036D-CAL,,/01-23A	1,,2.0uL Cal	10-JUL-09 20:22:06
3	DB93_148	3	3	Toluene,,	1,,2.0uL	10-JUL-09 20:57:46
4	DB93_148	4	4	Toluene,,	1,,2.0uL	10-JUL-09 21:33:26
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12	DB93_148	12	12	L12912-7,,	1,WG29271,2.0/20uL	11-JUL-09 02:18:35
13	DB93_148	13	13	L12912-8,,	1,WG29271,2.0/20uL	11-JUL-09 02:54:14
14	DB93_148	14	14	L12960-17,,	1,WG29263,2.0/20uL	11-JUL-09 03:29:52
15	DB93_148	15	15	L12960-18,,	1,WG29263,2.0/20uL	11-JUL-09 04:05:31
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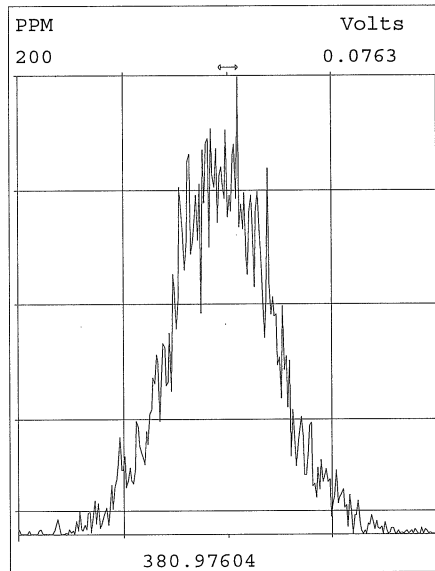
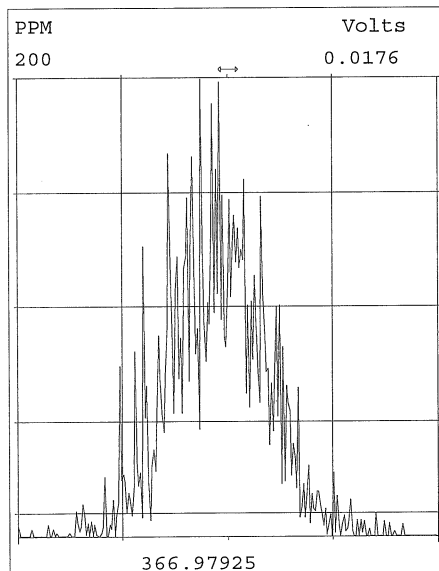
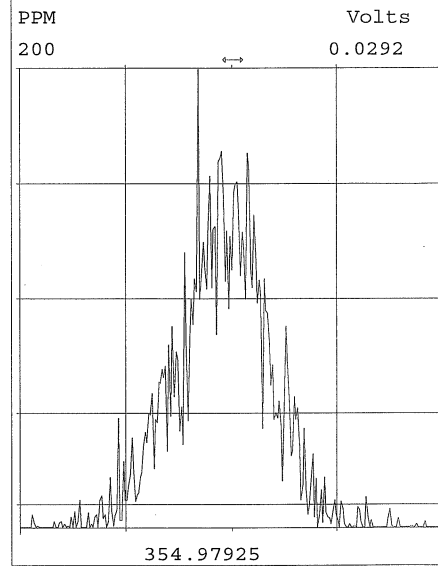
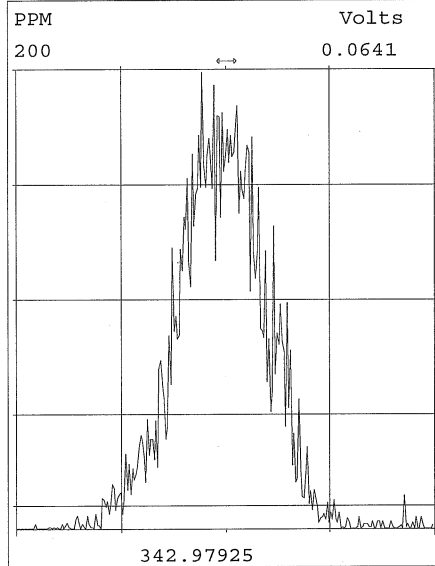
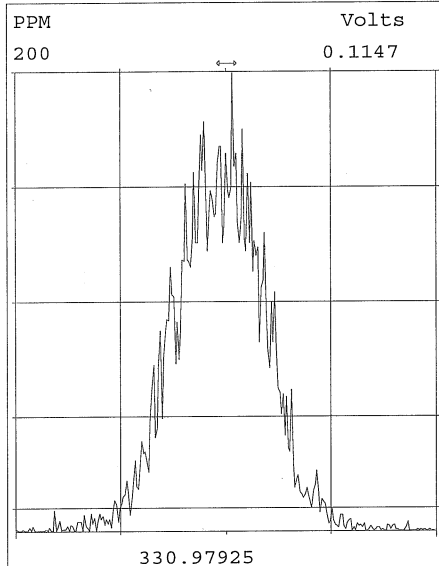
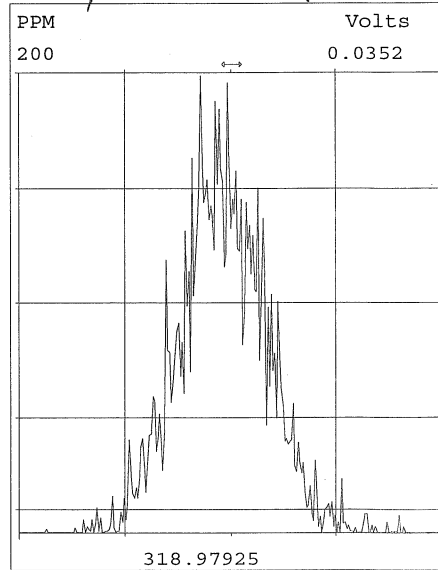
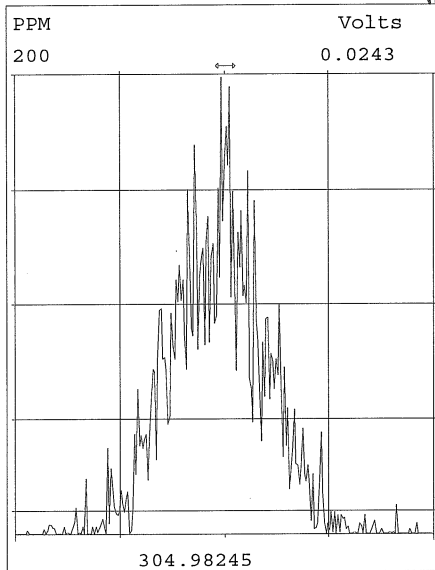
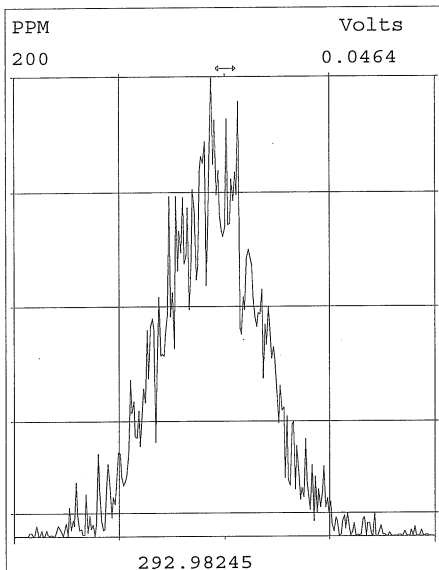
*approved by m
10 Jul 2009*



Peak Locate Examination: 11-JUL-2009:07:39 File: DB93_148CAL2

Experiment: DX-DB225-1_03 Function: 1 Reference: PFK

Approved by *BN* 11-JUL-09



DB93-148-A

OPUSQuan 15-JUL-2009

Page 1

Page 1 of 1

c/q	Data Area	Data File	S	I	AnalyteTable	Factr #1	Factr #2	Size	HC	Sample Text	Comments	Done
1 c	STEM-DEFAULT	DB93_146D	4	1	1613b-DB-C4	1.0000	1.0000	1.000000	y	DX036B-CAL,,»	1,,2.0uL Cal	Y
2 c	STEM-DEFAULT	DB93_146D	5	1	1613b-DB-C4	4.0000	1.0000	1.000000	y	DX036C-CAL,,»	1,,2.0uL Cal	Y
3 c	STEM-DEFAULT	DB93_146D	8	1	1613b-DB-C4	20.0000	1.0000	1.000000	y	DX036D-CAL,,»	1,,2.0uL Cal	Y
4 c	STEM-DEFAULT	DB93_146D	7	1	1613b-DB-C4	80.0000	1.0000	1.000000	y	DX036E-CAL,,»	1,,2.0uL Cal	Y
5 c	STEM-DEFAULT	DB93_146D	6	1	1613b-DB-C4	400.0000	1.0000	1.000000	y	DX036F-CAL,,»	1,,2.0uL Cal	Y
6 q	STEM-DEFAULT	DB93_148	2	1	1613B-db-c4	20.0000	1.0000	1.000000	y	DX036D-CAL,,»	1,,2.0uL Cal	Y
7 q	STEM-DEFAULT	DB93_148	3	1	1613B-db-s4	1.0000	0.1000	1.000000	y	Toluene,,	1,,2.0uL	Y
8 q	STEM-DEFAULT	DB93_148	4	1	1613B-db-s4	1.0000	0.1000	1.000000	y	Toluene,,	1,,2.0uL	Y
9 q	STEM-DEFAULT	DB93_148	5	1	1613B-db-s4	1.0000	1.0000	10.000000	y	WG29271-101,»	1,WG29271,2.0/20»	Y
10 q	STEM-DEFAULT	DB93_148	6	1	1613B-db-s4	1.0000	1.0000	9.890000	y	L12912-1,,	1,WG29271,2.0/20»	Y
11 q	STEM-DEFAULT	DB93_148	7	1	1613B-db-s4	1.0000	1.0000	10.190000	y	L12912-2,,	1,WG29271,2.0/20»	Y
12 q	STEM-DEFAULT	DB93_148	8	1	1613B-db-s4	1.0000	1.0000	10.140000	y	L12912-3,,	1,WG29271,2.0/20»	Y
13 q	STEM-DEFAULT	DB93_148	9	1	1613B-db-s4	1.0000	1.0000	10.310000	y	L12912-4,,	1,WG29271,2.0/20»	Y
14 q	STEM-DEFAULT	DB93_148	10	1	1613B-db-s4	1.0000	1.0000	10.300000	y	L12912-5,,	1,WG29271,2.0/20»	Y
15 q	STEM-DEFAULT	DB93_148	11	1	1613B-db-s4	1.0000	1.0000	10.280000	y	L12912-6,,	1,WG29271,2.0/20»	Y
16 q	STEM-DEFAULT	DB93_148	12	1	1613B-db-s4	1.0000	1.0000	10.040000	y	L12912-7,,	1,WG29271,2.0/20»	Y
17 q	STEM-DEFAULT	DB93_148	13	1	1613B-db-s4	1.0000	1.0000	10.020000	y	L12912-8,,	1,WG29271,2.0/20»	Y
18 q	STEM-DEFAULT	DB93_148	16	1	1613B-db-c4	20.0000	1.0000	1.000000	y	DX036D-CAL,,»	1,,2.0uL Cal	Y



AXYS METHOD MLA-017 Rev 16

**Form 4A
PCDD/PCDF CALIBRATION VERIFICATION**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date:	09-Jul-2009	VER Data Filename:	DB93_148 S: 2
Instrument ID:	HR GC/MS	Analysis Date:	10-Jul-2009
GC Column ID:	DB225	Analysis Time:	20:22:06

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
2,3,7,8-TCDF		M/M+2	0.82	0.65-0.89	10.5	9.1 - 13

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

Approved by: _____ Laura Luo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form4A.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26;
Report Filename: 1613_DIOXINS_DB93_148S2__Form4A_SJ1030745.html; Workgroup: WG29271; Design ID: 397]

AXYS METHOD MLA-017 Rev 16

**Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date:	09-Jul-2009	VER Data Filename:	DB93_148 S: 2
Instrument ID:	HR GC/MS	Analysis Date:	10-Jul-2009
GC Column ID:	DB225	Analysis Time:	20:22:06

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.001	0.999-1.003

(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Approved by: _____ Laura Luo _____ QA/QC Chemist

AXYS METHOD MLA-017 Rev 16

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Instrument ID:	HR GC/MS	Initial Calibration Date:	09-Jul-2009
RT Window Data Filename:		Analysis Date:	Time:
DB-5 IS Data Filename:		Analysis Date:	Time:
DB-225 IS Data Filename:	DB93_148 S: 1	Analysis Date:	10-Jul-2009 Time: 19:46:31

DB225 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	N/A	1,3,6,8-TCDF (F)	N/A
1,2,8,9-TCDD (L)	N/A	1,2,8,9-TCDF (L)	N/A
1,2,4,7,9-PECDD (F)	N/A	1,3,4,6,8-PECDF (F)	N/A
1,2,3,8,9-PECDD (L)	N/A	1,2,3,8,9-PECDF (L)	N/A
1,2,4,6,7,9-HXCDD (F)	N/A	1,2,3,4,6,8-HXCDF (F)	N/A
1,2,3,4,6,7-HXCDD (L)	N/A	1,2,3,4,8,9-HXCDF (L)	N/A
1,2,3,4,6,7,9-HPCDD (F)	N/A	1,2,3,4,6,7,8-HPCDF (F)	N/A
1,2,3,4,6,7,8-HPCDD (L)	N/A	1,2,3,4,7,8,9-HPCDF (L)	N/A

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

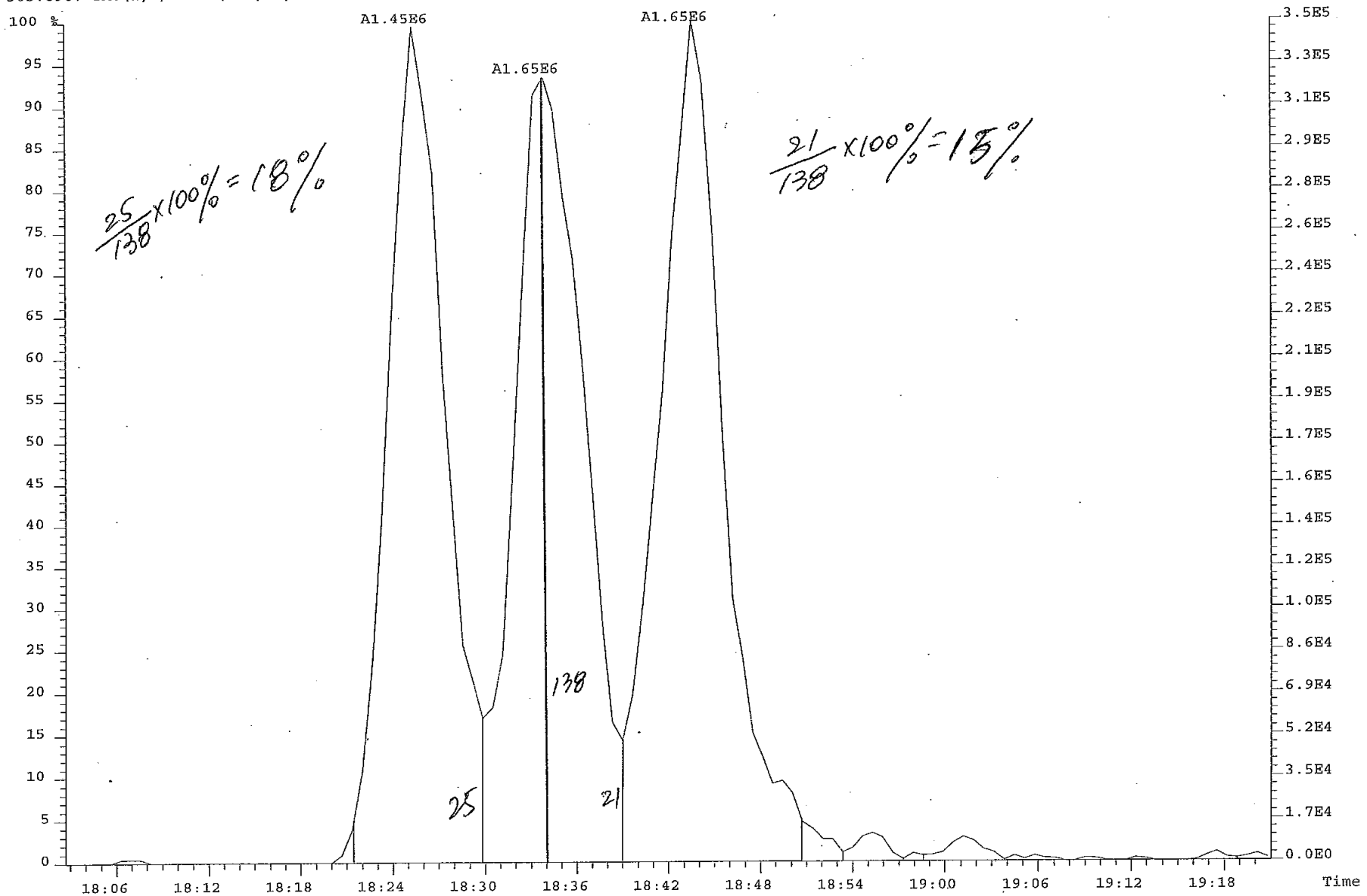
ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	N/A	1,2,3,8-TCDD 2,3,7,8-TCDD	N/A
1,2,7,8-TCDD 1,4,7,8-TCDD	N/A	2,3,4,7-TCDF 2,3,7,8-TCDF	18
1,4,7,8-TCDD 1,2,3,7-TCDD	N/A	2,3,7,8-TCDF 1,2,3,9-TCDF	15
1,2,3,7-TCDD 1,2,3,8-TCDD	N/A		

Approved by: _____ Laura Luo _____ QA/QC Chemist



File:DB93_148 #1-918 Acq:10-JUL-2009 19:46:31 GC EI+ Voltage SIR Autospec-Ultima
Sample#1 File Text: Text:DX001A-RSN,,/02-13 Exp:DX-DB225-1_03
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PV BY WL

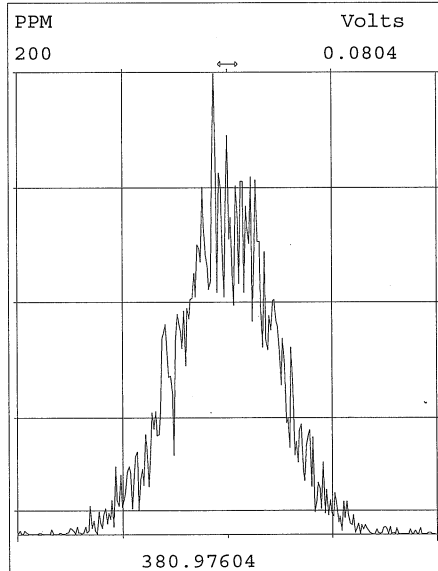
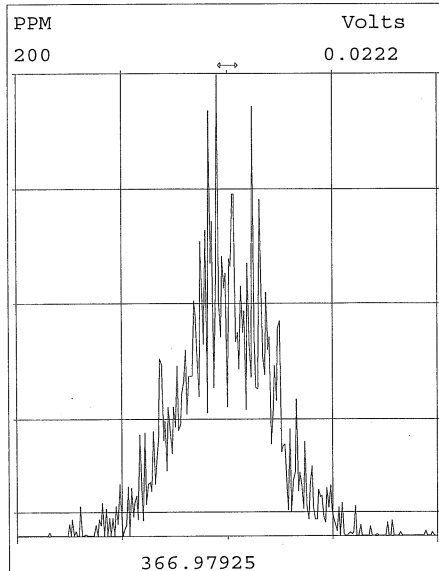
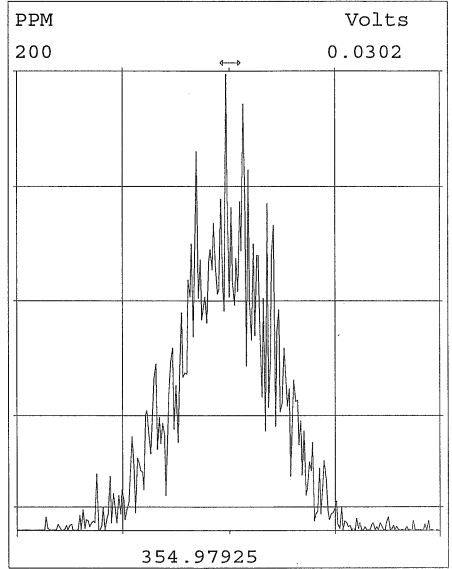
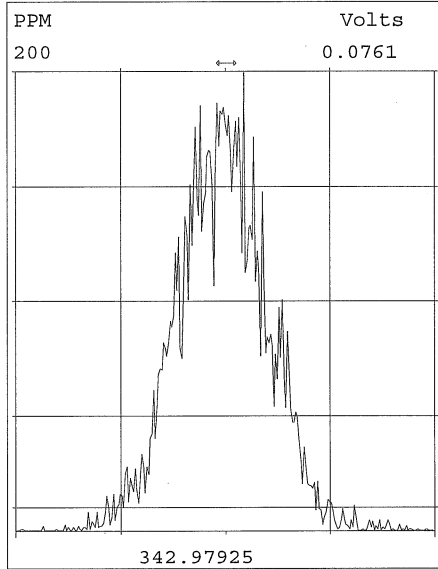
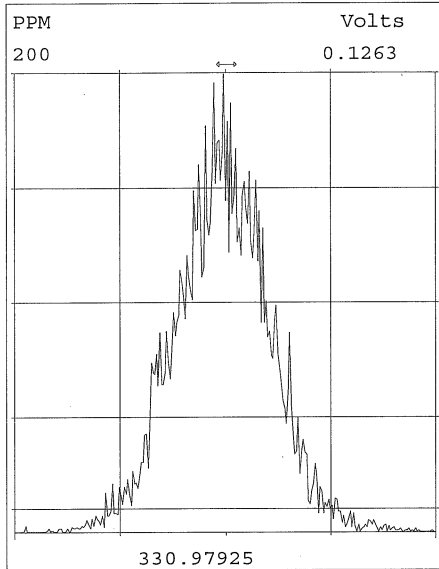
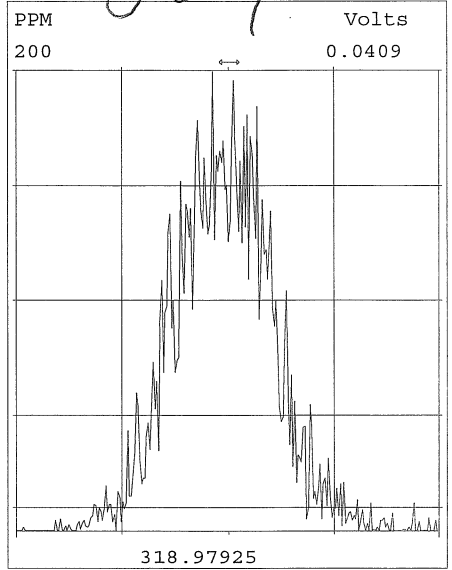
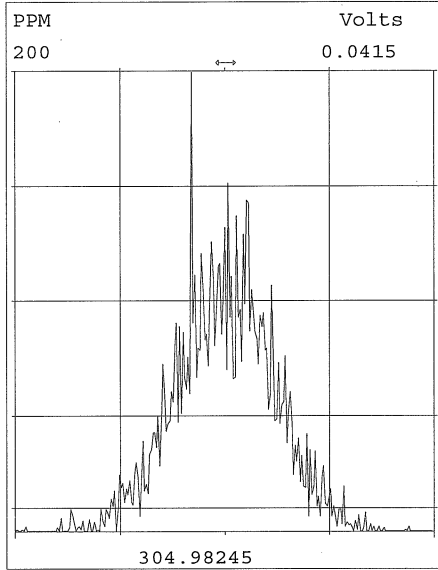
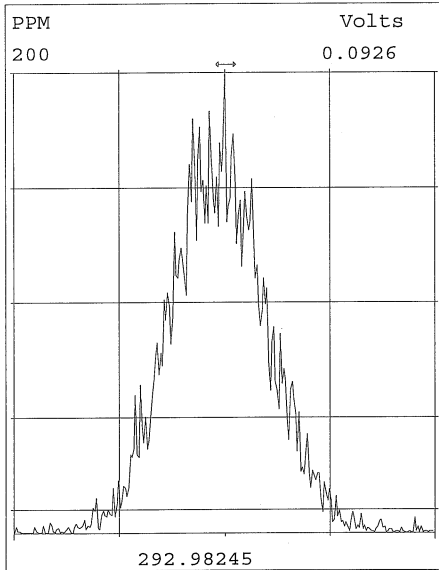
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GC Program : DX-DB225-1_02	-s resv: 160	List : RT	-liner : 13-Jul-2009
Column type : DB-225	-re_ent: 220	Check :	-septum: 13-Jul-2009
Serial # : US5436814H+5M	-cap_1 : 220	LIMS :	-guard : 30cm 13-JUL-09
kPa : 180	-cap_2 : 220	Logfile:	-column: COMB 09-JUL-09
Vol injected: 2.0uL			-t line: 31cm 24-Jun-09
PMT Voltage : 399			

#	Data file	S	V	Sample Text	Comments	Acquisition Date/Time
1	DB93_149C	1	1	DX001A-RSN,,/02-13	1,,2.0uL	13-JUL-09 17:44:20
2	DB93_149C	2	2	DX036D-CAL,,/01-23A	1,,2.0uL Cal	13-JUL-09 18:19:55
3	DB93_149C	3	3	Toluene,,	1,,2.0uL	13-JUL-09 18:55:35
4	DB93_149C	4	4	Toluene,,	1,,2.0uL	13-JUL-09 19:31:11
5	DB93_149C	5	5	L12912-9,,	1,WG29271,2.0/20uL	13-JUL-09 20:06:47
6	DB93_149C	6	6	WG29271-103,,Dup	1,WG29271,2.0/20uL	13-JUL-09 20:42:22
7	DB93_149C	7	7	WG29271-104,,CRM	1,WG29271,2.0/20uL	13-JUL-09 21:18:02
8	DB93_149C	8	8	DX036D-CAL,,/01-23A	1,,2.0uL Cal	13-JUL-09 21:53:41



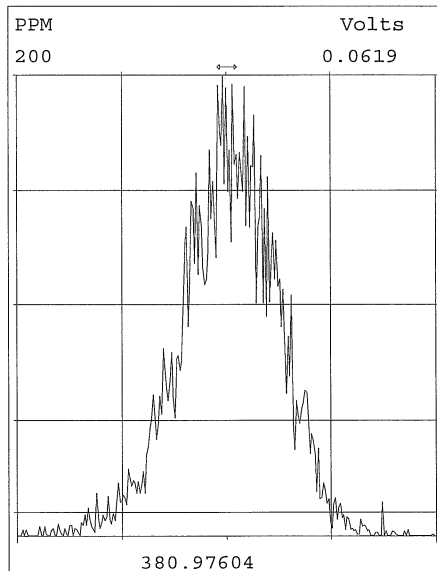
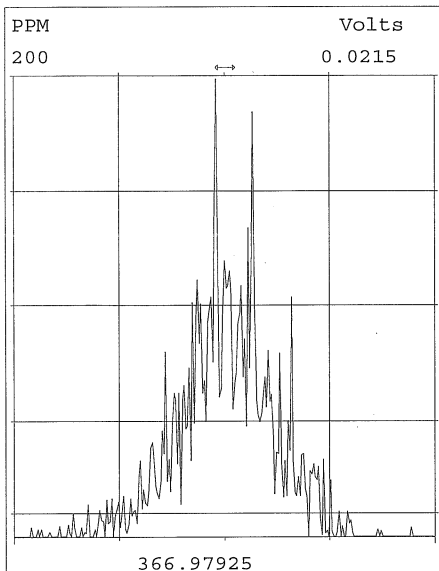
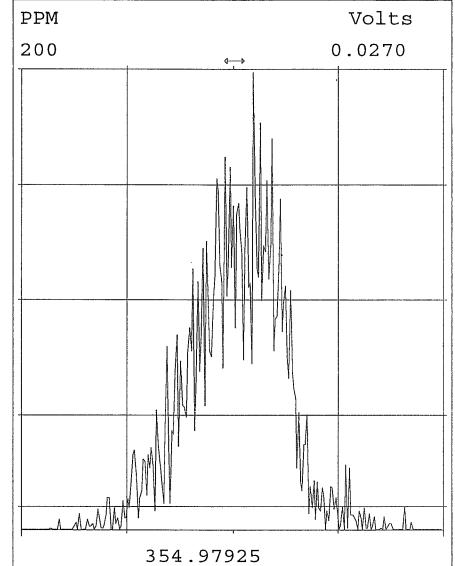
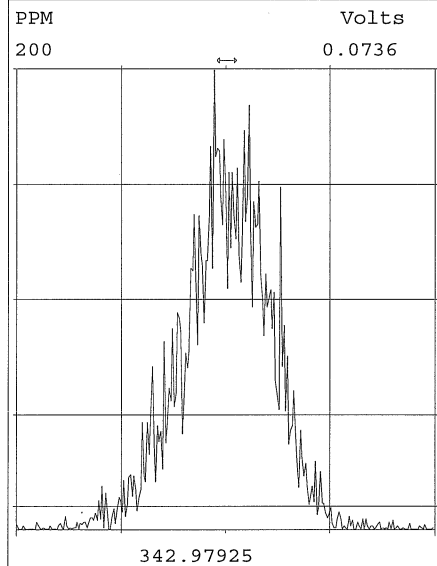
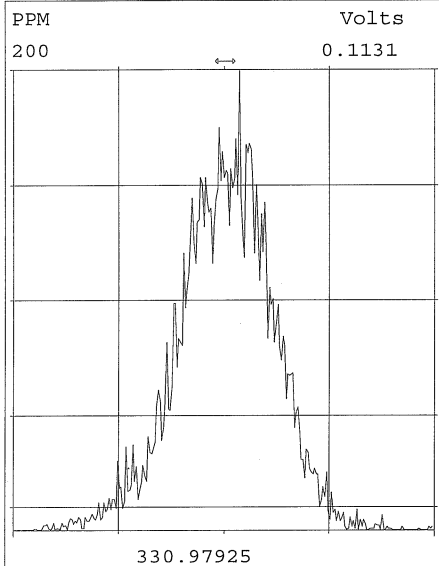
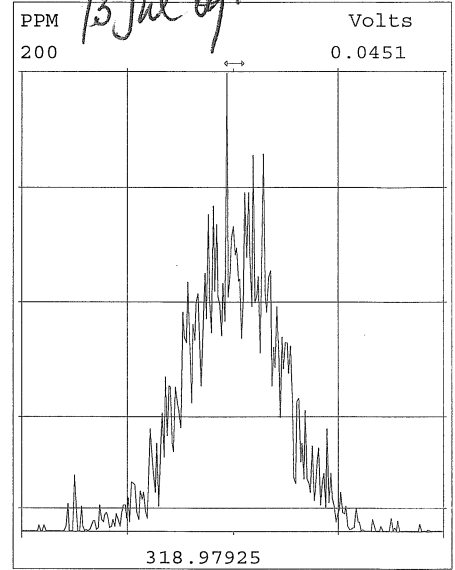
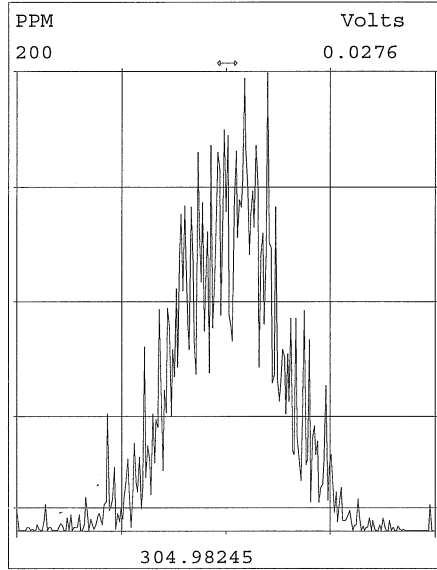
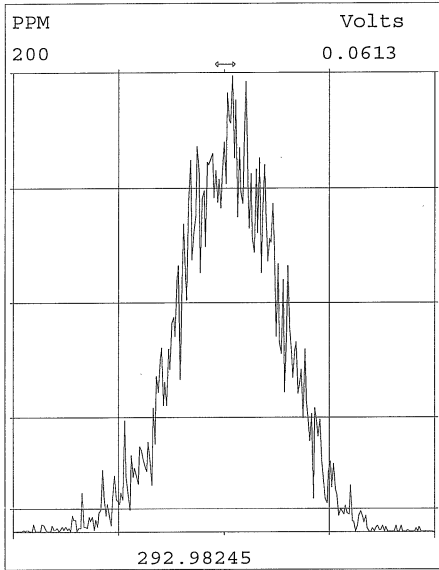
Peak Locate Examination:13-JUL-2009:17:35 File:DB93_149CCAL
Experiment:DX-DB225-1_03 Function:1 Reference:PFK

Approved by B
13 JUL 09



Peak Locate Examination:13-JUL-2009:22:35 File:DB93_149CCAL2
Experiment:DX-DB225-1_03 Function:1 Reference:PFK

Approved by *[Signature]*
13 Jul 09



DB93-149C-A

OPUSquan 15-JUL-2009

Page 1

Page 1 of 1

c/q	Data Area	Data File	S	I	AnalyteTable	Factr #1	Factr #2	Size	HC	Sample Text	Comments	Done
1 c	STEM-DEFAULT	DB93_146D	4	1	1613b-DB-C4	1.0000	1.0000	1.000000	y	DX036B-CAL,,»	1,,2.0uL Cal	Y
2 c	STEM-DEFAULT	DB93_146D	5	1	1613b-DB-C4	4.0000	1.0000	1.000000	y	DX036C-CAL,,»	1,,2.0uL Cal	Y
3 c	STEM-DEFAULT	DB93_146D	8	1	1613b-DB-C4	20.0000	1.0000	1.000000	y	DX036D-CAL,,»	1,,2.0uL Cal	Y
4 c	STEM-DEFAULT	DB93_146D	7	1	1613b-DB-C4	80.0000	1.0000	1.000000	y	DX036E-CAL,,»	1,,2.0uL Cal	Y
5 c	STEM-DEFAULT	DB93_146D	6	1	1613b-DB-C4	400.0000	1.0000	1.000000	y	DX036F-CAL,,»	1,,2.0uL Cal	Y
6 q	STEM-DEFAULT	DB93_149C	1	1	1613B-db-s4	1.0000	1.0000	1.000000	y	DX001A-RSN,,»	1,,2.0uL	Y
7 q	STEM-DEFAULT	DB93_149C	2	1	1613B-db-c4	20.0000	1.0000	1.000000	y	DX036D-CAL,,»	1,,2.0uL Cal	Y
8 q	STEM-DEFAULT	DB93_149C	3	1	1613B-db-s4	1.0000	0.1000	1.000000	y	Toluene,,	1,,2.0uL	Y
9 q	STEM-DEFAULT	DB93_149C	4	1	1613B-db-s4	1.0000	0.1000	1.000000	y	Toluene,,	1,,2.0uL	Y
10 q	STEM-DEFAULT	DB93_149C	5	1	1613B-db-s4	1.0000	1.0000	10.040000	y	L12912-9,,	1,WG29271,2.0/20»	Y
11 q	STEM-DEFAULT	DB93_149C	6	1	1613B-db-s4	1.0000	1.0000	10.110000	y	WG29271-103,»	1,WG29271,2.0/20»	Y
12 q	STEM-DEFAULT	DB93_149C	7	1	1613B-db-s4	1.0000	1.0000	0.500000	y	WG29271-104,»	1,WG29271,2.0/20»	Y
13 q	STEM-DEFAULT	DB93_149C	8	1	1613B-db-c4	20.0000	1.0000	1.000000	y	DX036D-CAL,,»	1,,2.0uL Cal	Y



AXYS METHOD MLA-017 Rev 16

**Form 4A
PCDD/PCDF CALIBRATION VERIFICATION**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date:	09-Jul-2009	VER Data Filename:	DB93_149C S: 2
Instrument ID:	HR GC/MS	Analysis Date:	13-Jul-2009
GC Column ID:	DB225	Analysis Time:	18:19:55

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
2,3,7,8-TCDF		M/M+2	0.77	0.65-0.89	11.7	9.1 - 13

- (1) Where applicable, custom lab flags have been used on this report.
- (2) See Table 8, Method 1613, for m/z specifications.
- (3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

Approved by: _____ Laura Luo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form4A.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26;
Report Filename: 1613_DIOXINS_DB93_149CS2__Form4A_SJ1030760.html; Workgroup: WG29271; Design ID: 397]

AXYS METHOD MLA-017 Rev 16

**Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date:	09-Jul-2009	VER Data Filename:	DB93_149C S: 2
Instrument ID:	HR GC/MS	Analysis Date:	13-Jul-2009
GC Column ID:	DB225	Analysis Time:	18:19:55

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.002	0.999-1.003

(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Approved by: _____ Laura Luo _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form6A.xsl; Created: 23-Jul-2009 10:37:01; Application: XMLTransformer-1.9.26;
Report Filename: 1613_DIOXINS_DB93_149CS2__Form6A_SJ1030760.html; Workgroup: WG29271; Design ID: 397]

AXYS METHOD MLA-017 Rev 16

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Instrument ID:	HR GC/MS	Initial Calibration Date:	09-Jul-2009
RT Window Data Filename:		Analysis Date:	Time:
DB-5 IS Data Filename:		Analysis Date:	Time:
DB-225 IS Data Filename:	DB93_149C S: 1	Analysis Date:	13-Jul-2009 Time: 17:44:20

DB225 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	N/A	1,3,6,8-TCDF (F)	N/A
1,2,8,9-TCDD (L)	N/A	1,2,8,9-TCDF (L)	N/A
1,2,4,7,9-PECDD (F)	N/A	1,3,4,6,8-PECDF (F)	N/A
1,2,3,8,9-PECDD (L)	N/A	1,2,3,8,9-PECDF (L)	N/A
1,2,4,6,7,9-HXCDD (F)	N/A	1,2,3,4,6,8-HXCDF (F)	N/A
1,2,3,4,6,7-HXCDD (L)	N/A	1,2,3,4,8,9-HXCDF (L)	N/A
1,2,3,4,6,7,9-HPCDD (F)	N/A	1,2,3,4,6,7,8-HPCDF (F)	N/A
1,2,3,4,6,7,8-HPCDD (L)	N/A	1,2,3,4,7,8,9-HPCDF (L)	N/A

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

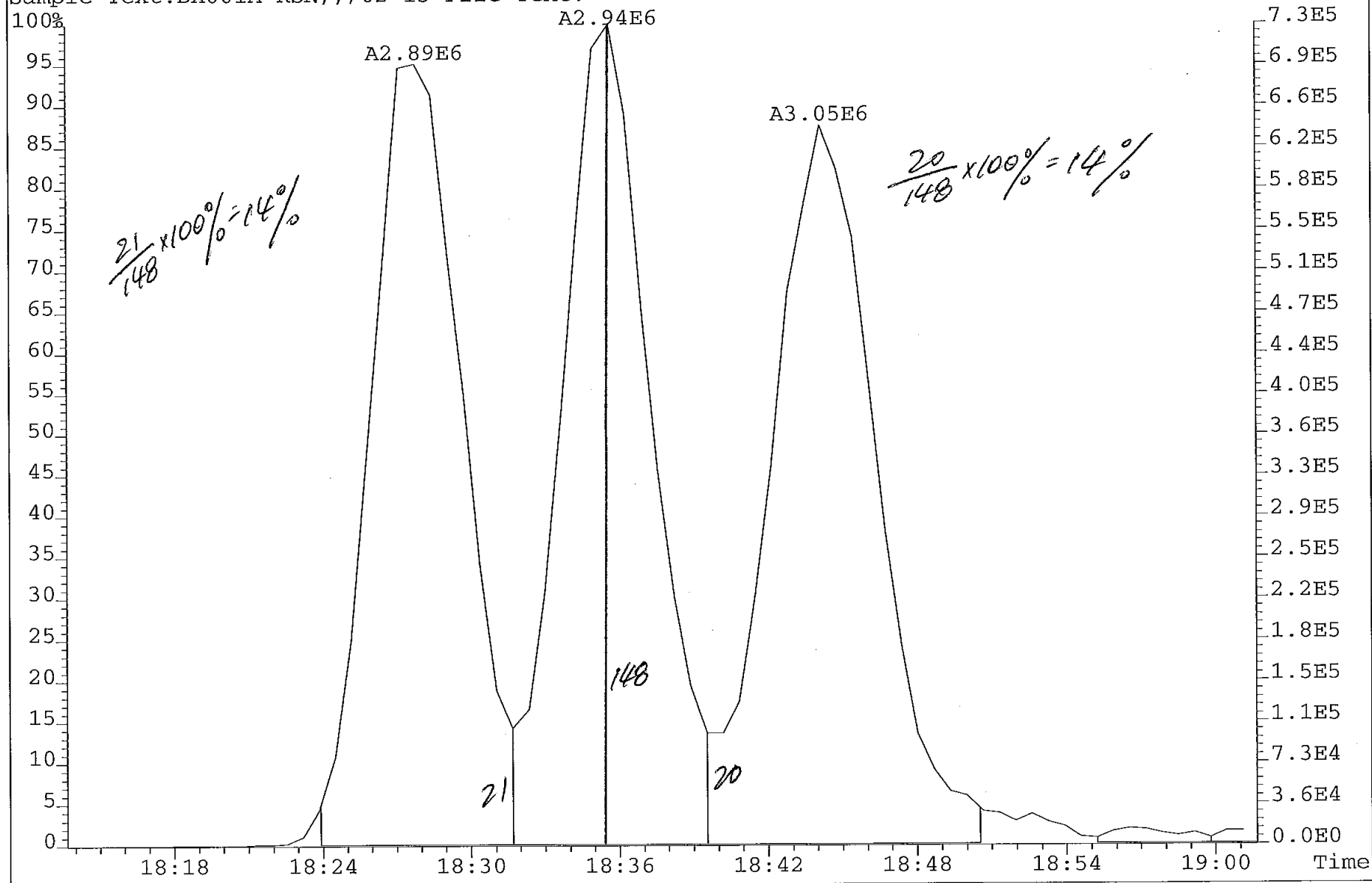
ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	N/A	1,2,3,8-TCDD 2,3,7,8-TCDD	N/A
1,2,7,8-TCDD 1,4,7,8-TCDD	N/A	2,3,4,7-TCDF 2,3,7,8-TCDF	14
1,4,7,8-TCDD 1,2,3,7-TCDD	N/A	2,3,7,8-TCDF 1,2,3,9-TCDF	14
1,2,3,7-TCDD 1,2,3,8-TCDD	N/A		

Approved by: _____ Laura Luo _____ QA/QC Chemist



File:DB93_149C #1-918 Acq:13-JUL-2009 17:44:20 GC EI+ Voltage SIR Autospec-Ultima
305.8987 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.10%,268.0,5.00%,F,T) Exp:DX-DB225-1_03 Noise:6>
Sample Text:DX001A-RSN,,/02-13 File Text:



PV BY WL
15 - July



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fail?	RT	pg/g	DL	%Rec	Noise:1	Noise:2
1	2,3,7,8-TCDF	9.890	4.36e3	0.82	NO	25.34	0.943	0.1427		1.64e3	8.32e2
2	1,2,3,7,8-PeCDF	9.890			NO			0.1872		1.53e3	7.27e2
3	2,3,4,7,8-PeCDF	9.890	2.62e3	1.60	NO	35.42	0.737	0.1720		1.53e3	7.27e2
4	1,2,3,4,7,8-HxCDF	9.890	7.49e3	1.38	NO	40.75	2.579	0.1247		7.34e2	1.08e3
5	1,2,3,6,7,8-HxCDF	9.890	3.75e3	1.09	NO	40.94	1.148	0.1155		7.34e2	1.08e3
6	2,3,4,6,7,8-HxCDF	9.890	3.84e3	1.06	NO	41.87	1.443	0.1327		7.34e2	1.08e3
7	1,2,3,7,8,9-HxCDF	9.890	2.83e2	1.08	NO	42.91	0.125	0.1646		7.34e2	1.08e3
8	1,2,3,4,6,7,8-HpCDF	9.890	1.59e5	1.02	NO	45.32	63.888	0.1457		9.47e2	1.04e3
9	1,2,3,4,7,8,9-HpCDF	9.890	7.14e3	1.07	NO	47.10	3.623	0.1917		9.47e2	1.04e3
10	OCDF	9.890	4.67e5	0.85	NO	50.34	251.946	0.2065		1.00e3	1.09e3
11	2,3,7,8-TCDD	9.890	1.11e3	0.73	NO	26.55	0.275	0.1598		1.26e3	1.13e3
12	1,2,3,7,8-PeCDD	9.890	3.44e3	0.58	NO	36.23	1.171	0.2612		1.63e3	1.39e3
13	1,2,3,4,7,8-HxCDD	9.890	3.91e3	1.14	NO	42.14	1.706	0.1423		1.20e3	5.85e2
14	1,2,3,6,7,8-HxCDD	9.890	2.41e4	1.18	NO	42.28	9.441	0.1445		1.20e3	5.85e2
15	1,2,3,7,8,9-HxCDD	9.890	1.10e4	1.17	NO	42.69	4.610	0.1461		1.20e3	5.85e2
16	1,2,3,4,6,7,8-HpCDD	9.890	4.13e5	1.01	NO	46.70	180.105	0.2102		1.19e3	1.51e3
17	OCDD	9.890	2.60e6	0.88	NO	50.26	1298.202	0.1293		8.74e2	5.39e2
18	13C-2,3,7,8-TCDF	9.890	1.22e6	0.75	NO	25.31	173.861	0.2921	86.0	5.58e3	2.56e3
19	13C-1,2,3,7,8-PeCDF	9.890	8.82e5	1.57	NO	33.64	179.739	0.3250	88.9	3.40e3	2.92e3
20	13C-2,3,4,7,8-PeCDF	9.890	8.49e5	1.51	NO	35.38	177.915	0.3340	88.0	3.40e3	2.92e3
21	13C-1,2,3,4,7,8-HxCDF	9.890	6.12e5	0.50	NO	40.74	170.995	0.3214	84.6	3.20e3	2.65e3
22	13C-1,2,3,6,7,8-HxCDF	9.890	7.24e5	0.50	NO	40.90	173.983	0.2762	86.0	3.20e3	2.65e3
23	13C-2,3,4,6,7,8-HxCDF	9.890	6.20e5	0.51	NO	41.84	162.365	0.3011	80.3	3.20e3	2.65e3
24	13C-1,2,3,7,8,9-HxCDF	9.890	5.68e5	0.52	NO	42.88	159.329	0.3226	78.8	3.20e3	2.65e3
25	13C-1,2,3,4,6,7,8-HpCDF	9.890	4.77e5	0.42	NO	45.30	166.643	0.3558	82.4	2.67e3	2.52e3
26	13C-1,2,3,4,7,8,9-HpCDF	9.890	4.16e5	0.44	NO	47.08	157.779	0.3863	78.0	2.67e3	2.52e3
27	13C-2,3,7,8-TCDD	9.890	9.11e5	0.78	NO	26.53	168.624	0.6727	83.4	2.58e3	1.18e4
28	13C-1,2,3,7,8-PeCDD	9.890	6.76e5	0.62	NO	36.20	193.463	0.3640	95.7	3.43e3	1.62e3
29	13C-1,2,3,4,7,8-HxCDD	9.890	5.67e5	1.23	NO	42.12	165.571	0.2364	81.9	2.87e3	1.24e3
30	13C-1,2,3,6,7,8-HxCDD	9.890	6.80e5	1.23	NO	42.25	170.167	0.2025	84.1	2.87e3	1.24e3
31	13C-1,2,3,4,6,7,8-HpCDD	9.890	4.81e5	1.05	NO	46.68	160.528	0.2744	79.4	1.86e3	2.32e3
32	13C-OCDD	9.890	8.72e5	0.85	NO	50.24	256.148	0.1876	63.3	1.77e3	1.48e3
33	13C-1,2,3,4-TCDD	9.890	1.00e6	0.78	NO	26.20	5.719	0.0207	2.8	2.58e3	1.18e4
34	13C-1,2,3,7,8,9-HxCDD	9.890	7.10e5	1.27	NO	42.68	6.373	0.0073	3.2	2.87e3	1.24e3
35	37Cl-2,3,7,8-TCDD	9.890	9.94e4			26.56	19.314	0.1008	95.5		2.06e3
36	Total Tetra-Furans	9.890				5.086	8.392	0.1427			8.32e2
37	Total Tetra-Dioxins	9.890				5.04	7.467	0.1598			1.13e3
38	Total Penta-Furans	9.890				11.545	15.789	0.1812			7.27e2
39	Total Penta-Dioxins	9.890					13.334	0.2612			1.39e3
40	Total Hexa-Furans	9.890				59.178	60.963	0.1225	0.1646		1.08e3
41	Total Hexa-Dioxins	9.890				77.818	82.765	0.1378	0.1461		5.85e2
42	Total Hepta-Furans	9.890				214.021	246.954	0.1558	0.1917		1.04e3
43	Total Hepta-Dioxins	9.890					358.069	0.2102			1.51e3
44	Hexa DPE	1.000	4.77e2			25.92					1.55e3
45	Hepta DPE	1.000	3.33e2			37.63					2.37e3
46	Octa DPE	1.000									1.29e3
47	Nona DPE	1.000	3.52e2			46.17					2.15e3
48	Deca DPE	1.000	1.30e2			48.91					7.64e2
49	Tetra Lock	1.000	6.34e4			24.81					5.66e5
50	Penta Lock	1.000	4.55e6			28.97					4.95e5
51	Hexa Lock	1.000	2.97e6			38.85					9.13e5
52	Hepta Lock	1.000									5.23e5
53	Octa Lock	1.000	6.81e6			49.54					2.82e5

PV WL 14-JUL-2009

SU'd BRA 23-Jul-09



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	1 ^o Ratio (A...	Fails?	pg
1	26.02	0.931	YES	0.272
2	25.34	0.822	NO	0.943
3	24.66	0.593	YES	0.541
4	24.18	0.605	YES	0.821
5	23.90	0.726	NO	0.849
6	23.41	0.850	NO	1.084
7	23.04	0.665	NO	1.010
8	22.60	0.859	NO	0.783
9	22.28	0.902	YES	1.211
10	21.99	0.757	NO	0.271
11	21.47	0.466	YES	0.227
12	26.35	0.831	NO	0.146
13	24.99	0.547	YES	0.232

19

Tetradioxins

	RT	1 ^o Ratio (A...	Fails?	pg
1	25.29	2.043	YES	1.206
2	25.12	1.514	YES	0.127
3	24.73	0.947	YES	0.881
4	23.82	0.738	NO	0.680
5	23.42	0.767	NO	1.405
6	22.99	0.797	NO	1.768
7	26.38	0.792	NO	0.368
8	26.20	0.726	NO	0.544
9	25.72	0.511	YES	0.215
10	26.55	0.728	NO	0.275

19

Pentafurans

	RT	1 ^o Ratio (A...	Fails?	pg
1	31.62	1.274	YES	3.554
2	28.99	1.519	NO	8.784
3	35.71	1.884	YES	0.689
4	35.42	1.598	NO	0.737
5	34.39	1.342	NO	0.641
6	33.01	1.450	NO	1.383

19

Pentadioxins

	RT	1 ^o Ratio (A...	Fails?	pg
1	32.16	0.620	NO	4.790
2	36.23	0.580	NO	1.171
3	34.97	0.674	NO	0.504
4	34.58	0.595	NO	0.963
5	34.28	0.559	NO	1.589
6	33.26	0.521	NO	1.858
7	33.95	0.556	NO	1.491
8	35.15	0.673	NO	0.967

19

PV WL 14-JUL-2009



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Hexafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	41.87	1.049	YES	1.443
2	41.71	1.307	NO	1.420
3	40.94	1.092	NO	1.148
4	40.75	1.384	NO	2.579
5	40.11	1.206	NO	28.792
6	39.82	1.401	NO	1.348
7	39.29	1.177	NO	18.137
8	39.04	1.133	NO	5.398
9	43.04	1.158	NO	0.356
10	42.91	1.081	NO	0.125
11	41.36	0.547	YES	0.217

Hexadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	42.69	1.170	NO	4.610
2	42.28	1.178	NO	9.441
3	42.14	1.143	NO	1.706
4	41.45	1.245	NO	1.353
5	41.25	1.195	NO	23.398
6	40.87	1.527	YES	4.947
7	40.08	1.225	NO	37.310

Heptafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	47.10	1.067	NO	3.623
2	45.84	0.972	NO	146.510
3	45.64	1.390	YES	2.932
4	45.32	1.019	NO	63.888

Heptadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	46.70	1.012	NO	180.105
2	45.79	1.024	NO	177.964

PV WL 14-JUL-2009

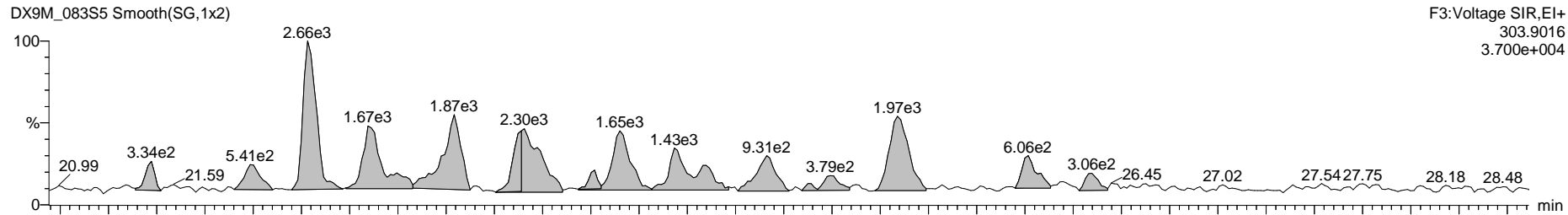
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

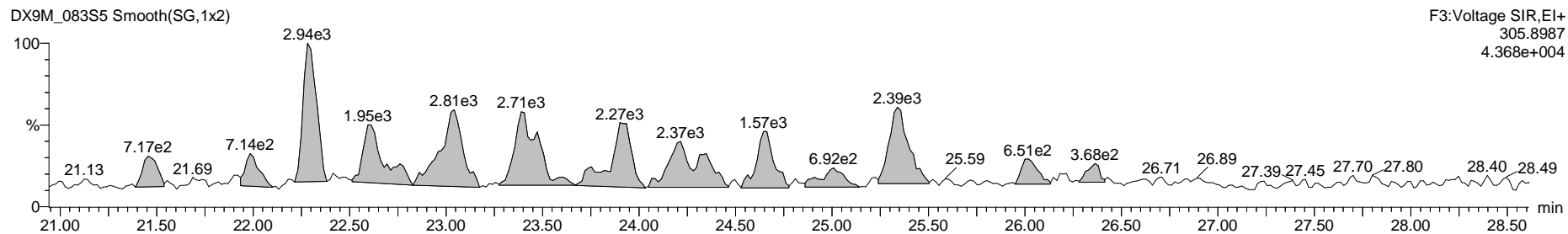
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S5 Smooth(SG,1x2)

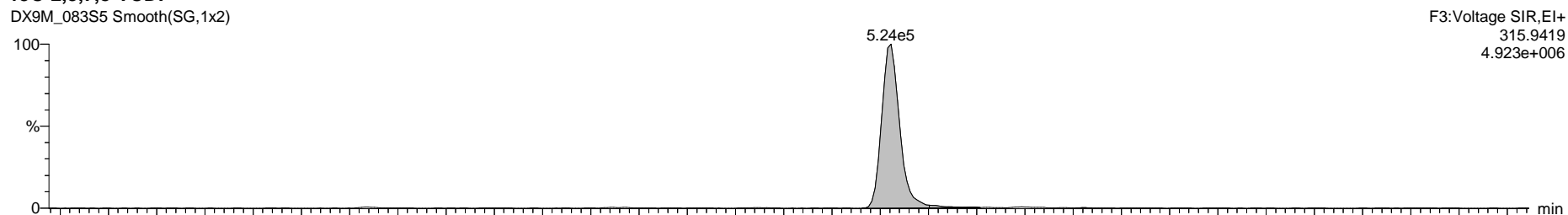


DX9M_083S5 Smooth(SG,1x2)

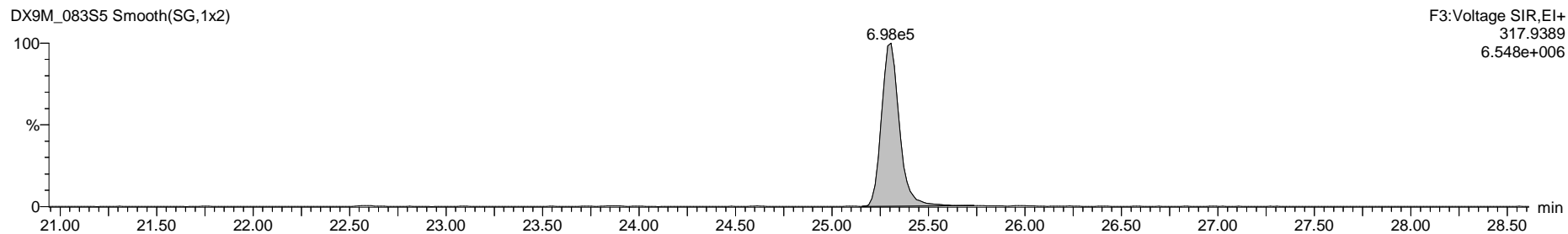


13C-2,3,7,8-TCDF

DX9M_083S5 Smooth(SG,1x2)



DX9M_083S5 Smooth(SG,1x2)

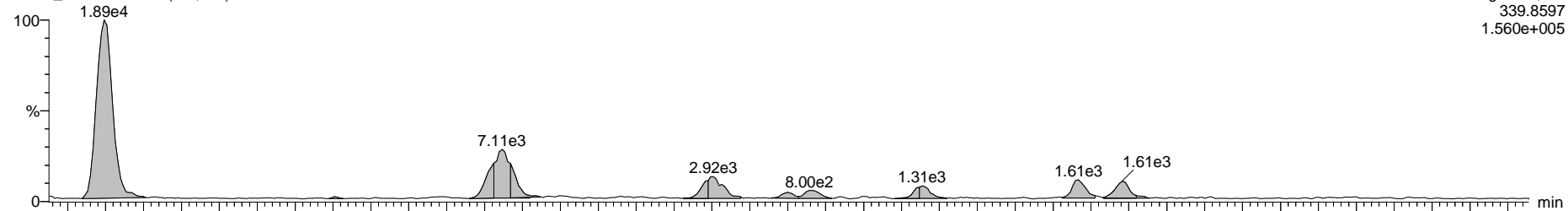


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

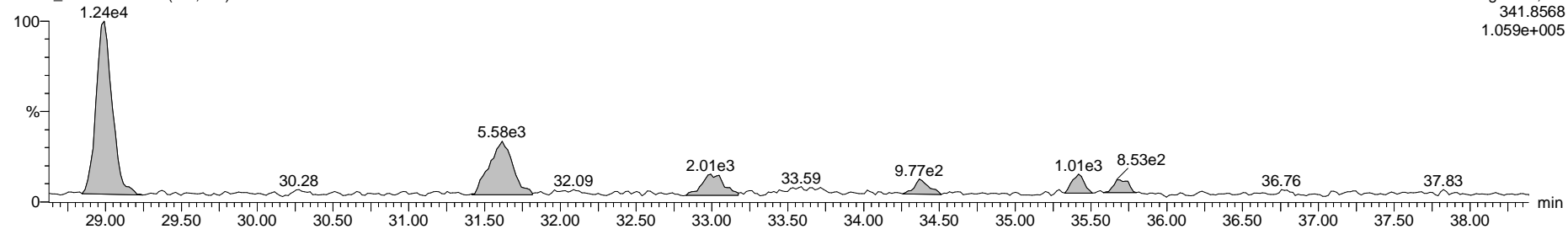
Total Penta-Furans

DX9M_083S5 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
1.560e+005

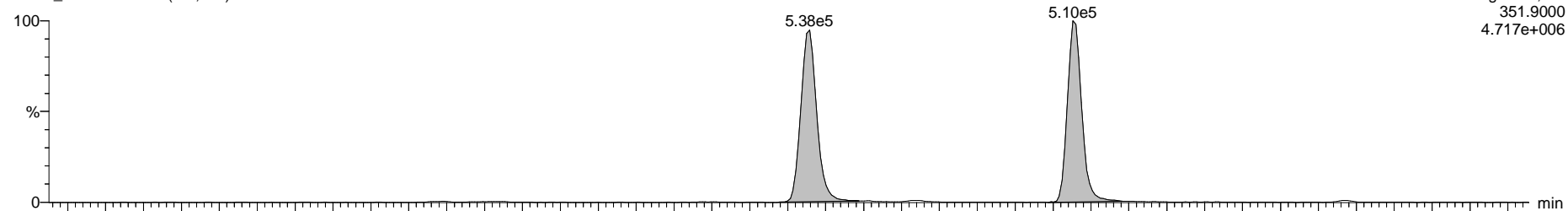
DX9M_083S5 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
1.059e+005

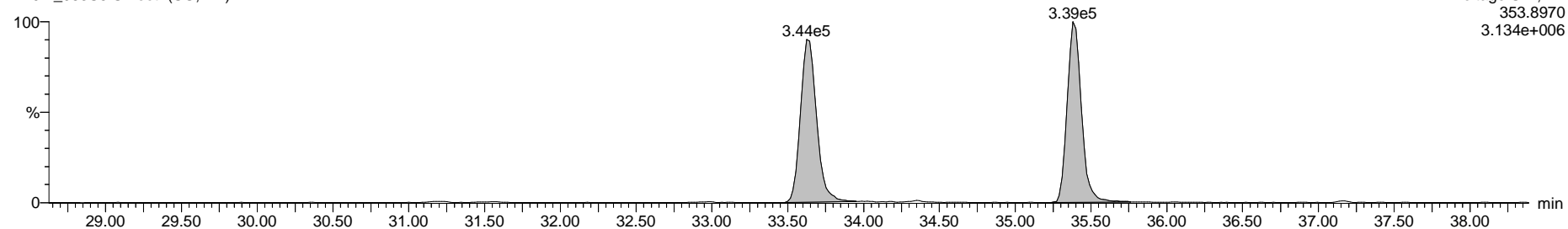
13C-1,2,3,7,8-PeCDF

DX9M_083S5 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
4.717e+006

DX9M_083S5 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8970
3.134e+006

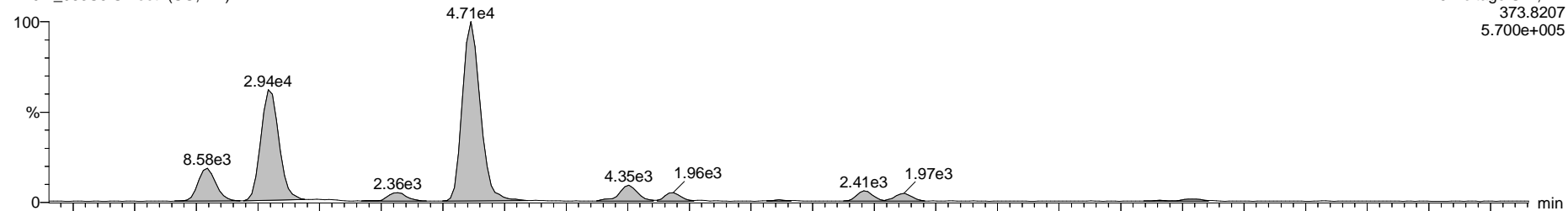


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

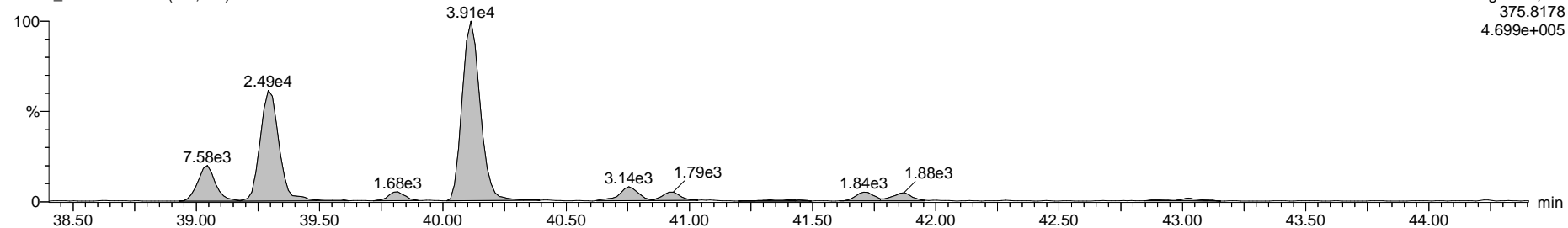
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Total Hexa-Furans

DX9M_083S5 Smooth(SG,1x2)

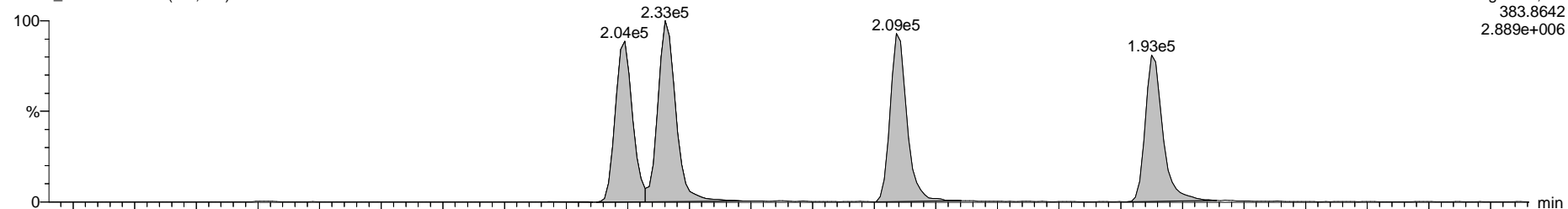


DX9M_083S5 Smooth(SG,1x2)

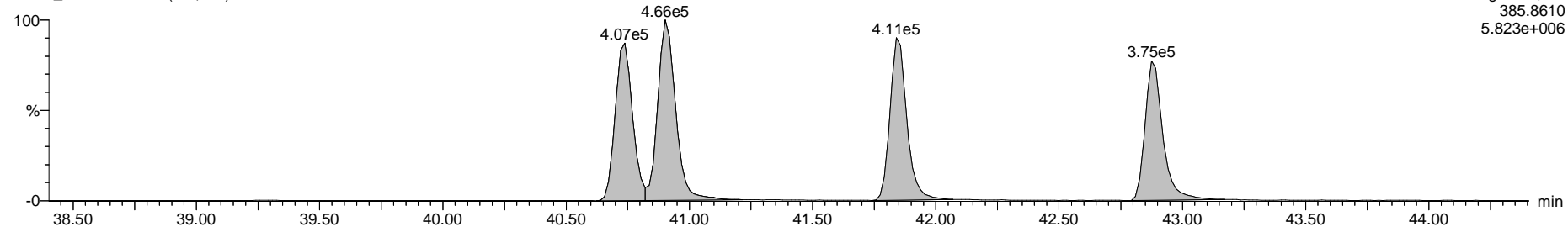


13C-1,2,3,4,7,8-HxCDF

DX9M_083S5 Smooth(SG,1x2)



DX9M_083S5 Smooth(SG,1x2)



PV WL 14-JUL-2009

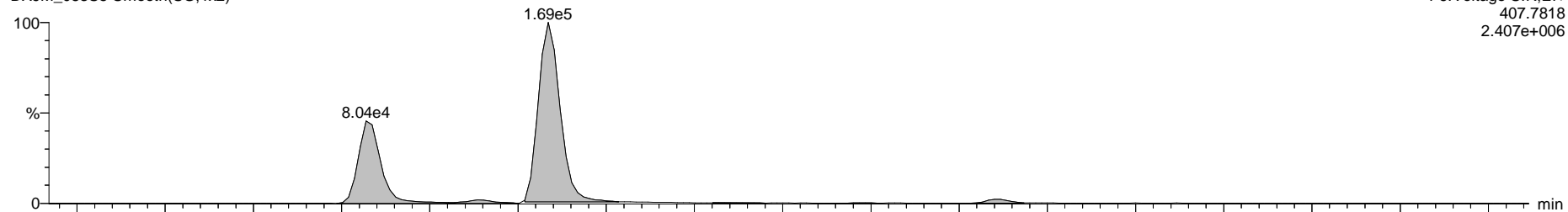


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

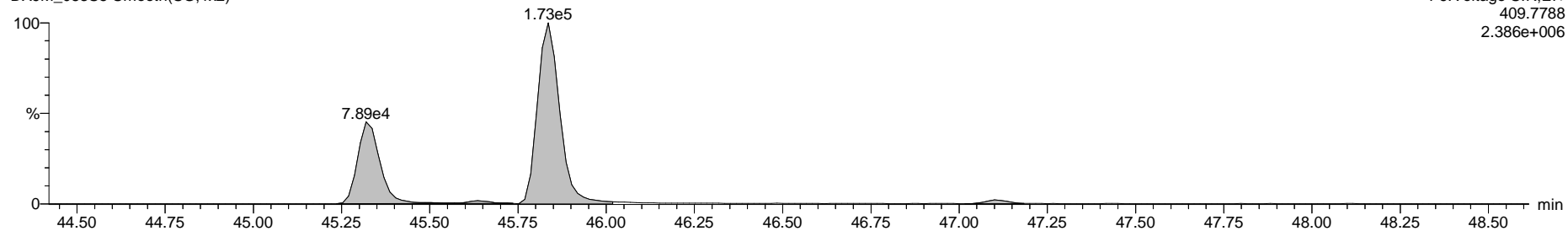
Total Hepta-Furans

DX9M_083S5 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
2.407e+006

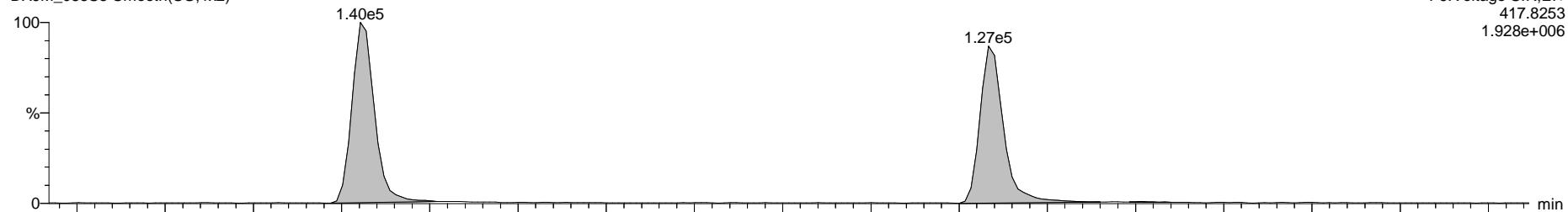
DX9M_083S5 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
2.386e+006

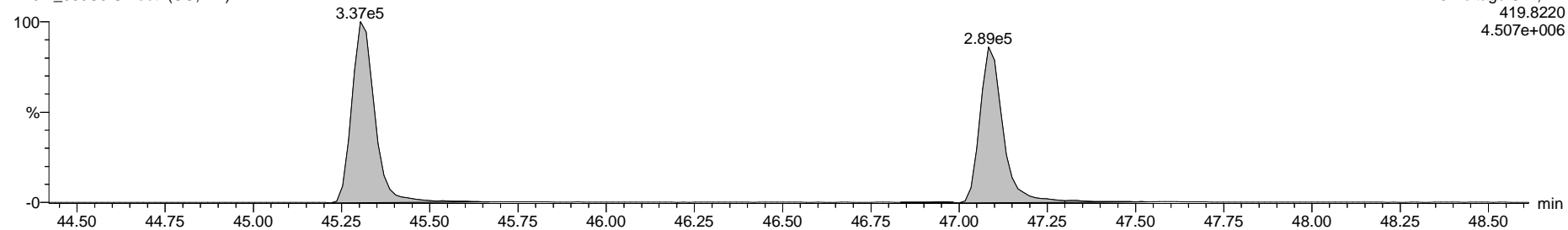
13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S5 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
1.928e+006

DX9M_083S5 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
4.507e+006

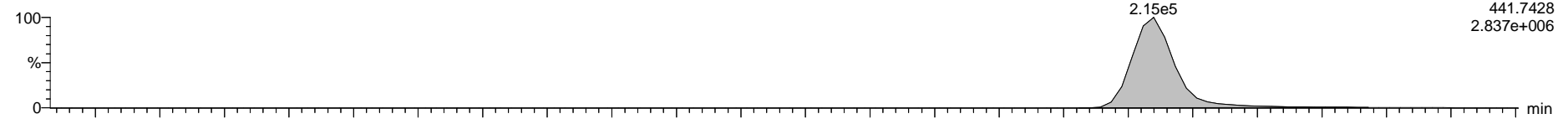


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

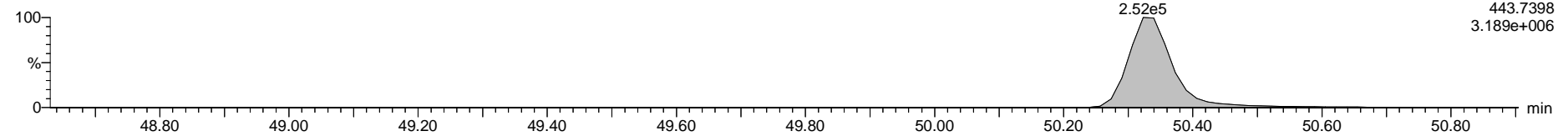
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S5 Smooth(SG,1x2)

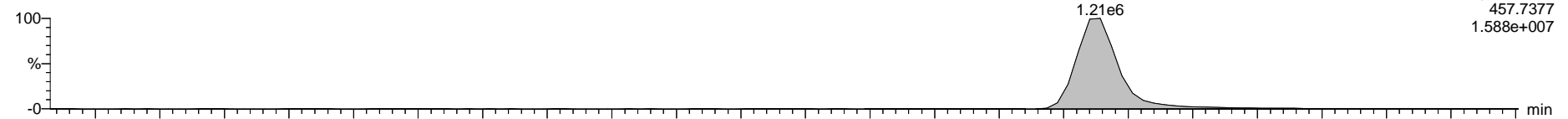


DX9M_083S5 Smooth(SG,1x2)

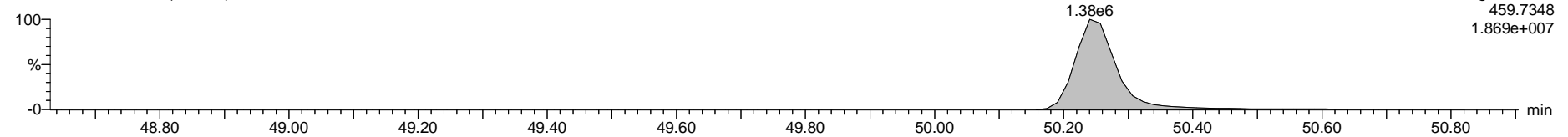


OCDD

DX9M_083S5 Smooth(SG,1x2)

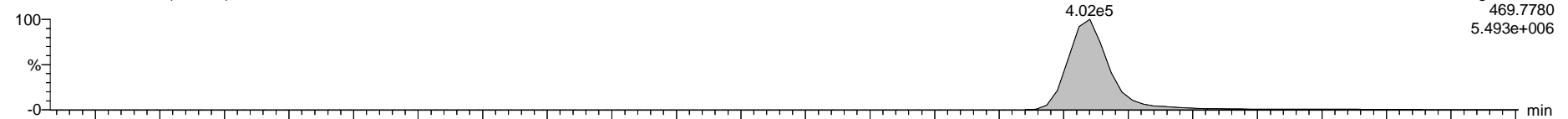


DX9M_083S5 Smooth(SG,1x2)

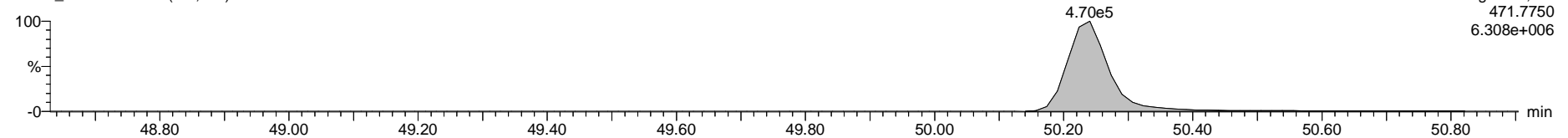


13C-OCDD

DX9M_083S5 Smooth(SG,1x2)



DX9M_083S5 Smooth(SG,1x2)

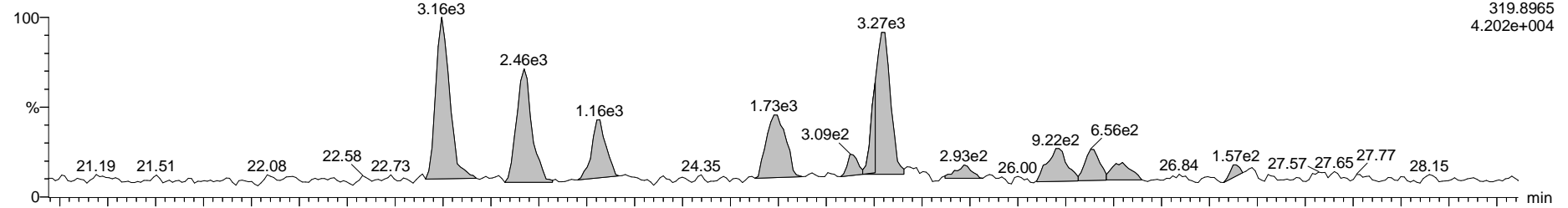


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

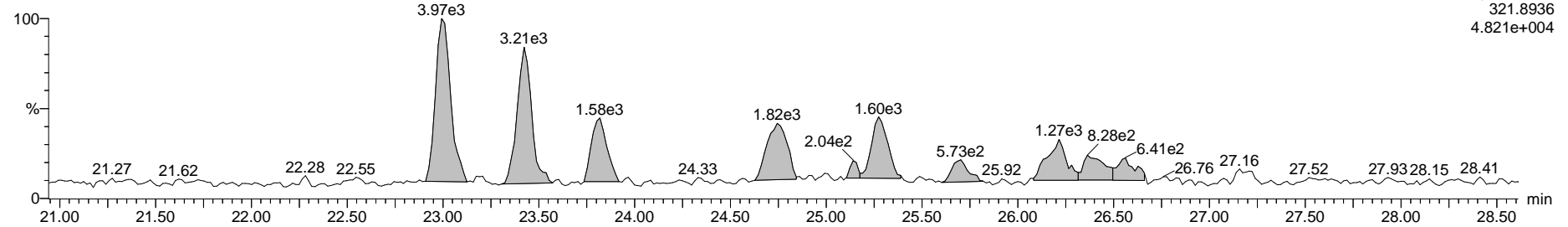
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_083S5 Smooth(SG,1x2)

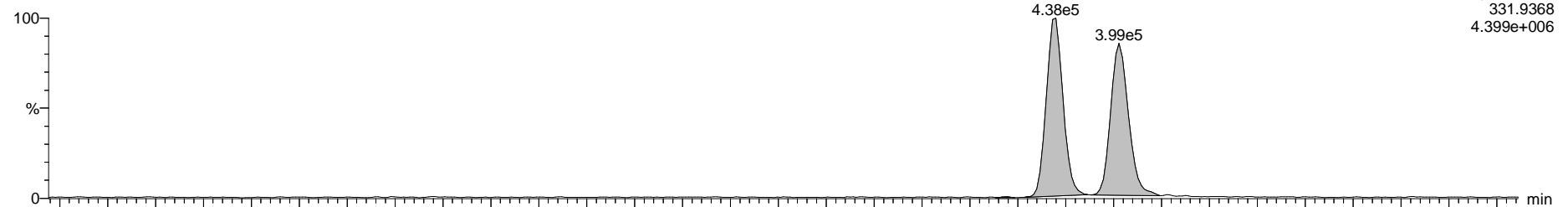


DX9M_083S5 Smooth(SG,1x2)

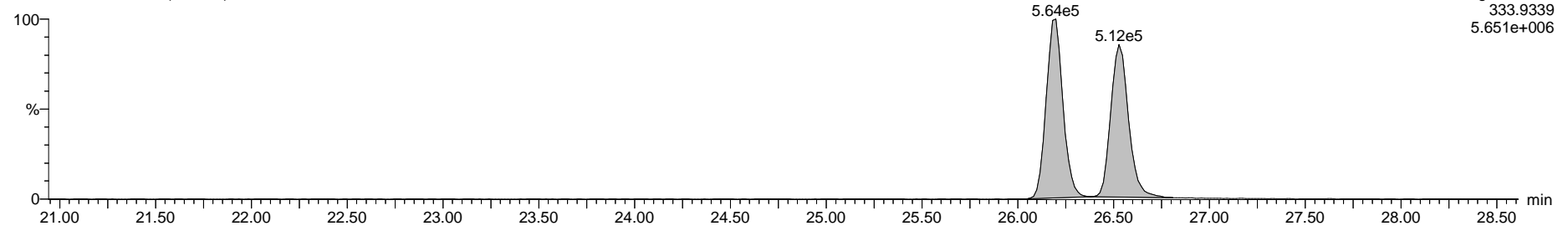


13C-2,3,7,8-TCDD

DX9M_083S5 Smooth(SG,1x2)



DX9M_083S5 Smooth(SG,1x2)



PV WL 14-JUL-2009

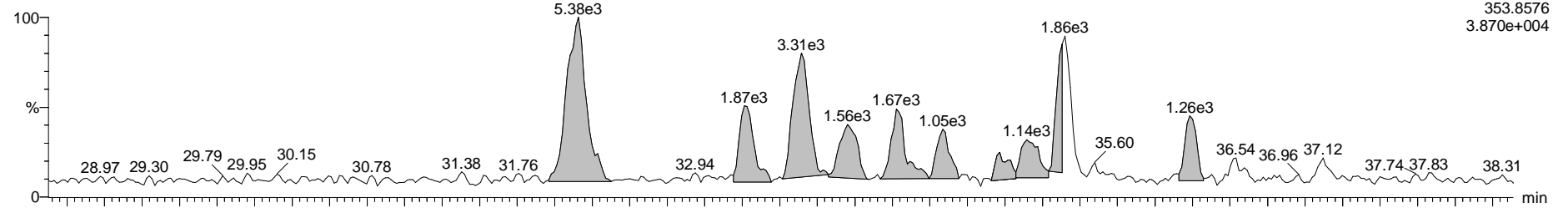


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

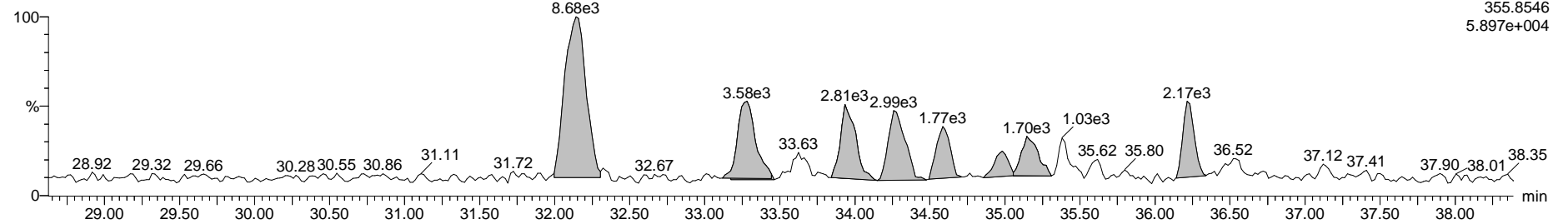
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Dioxins

DX9M_083S5 Smooth(SG,1x2)

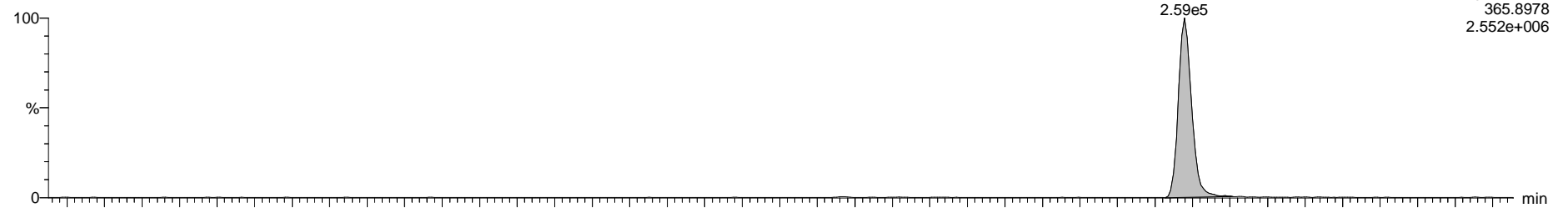


DX9M_083S5 Smooth(SG,1x2)

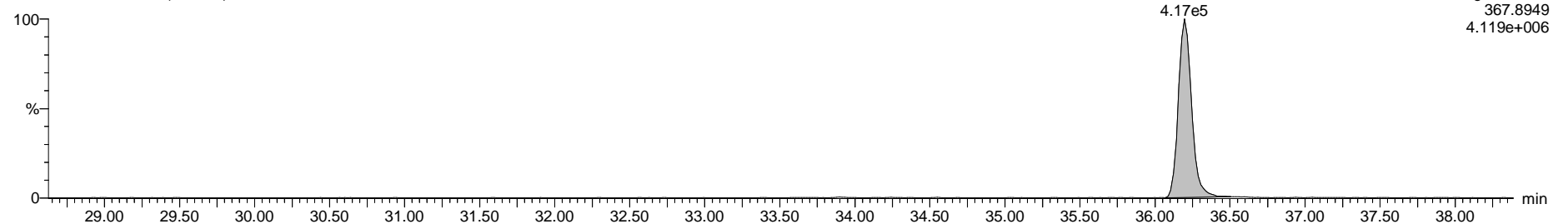


13C-1,2,3,7,8-PeCDD

DX9M_083S5 Smooth(SG,1x2)



DX9M_083S5 Smooth(SG,1x2)

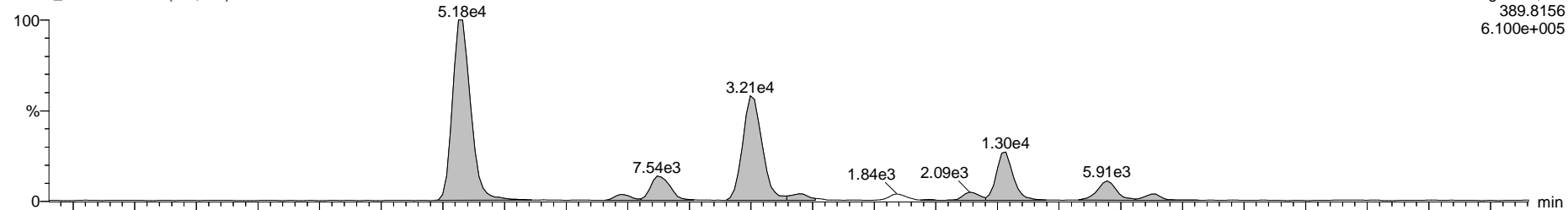


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

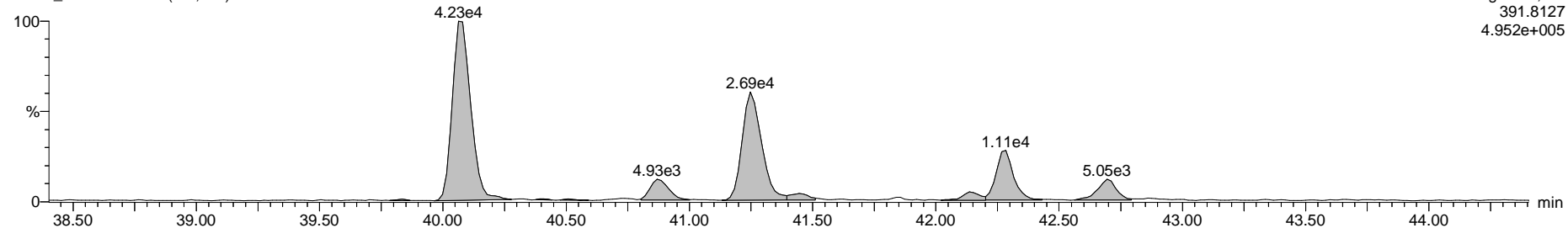
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S5 Smooth(SG,1x2)



DX9M_083S5 Smooth(SG,1x2)

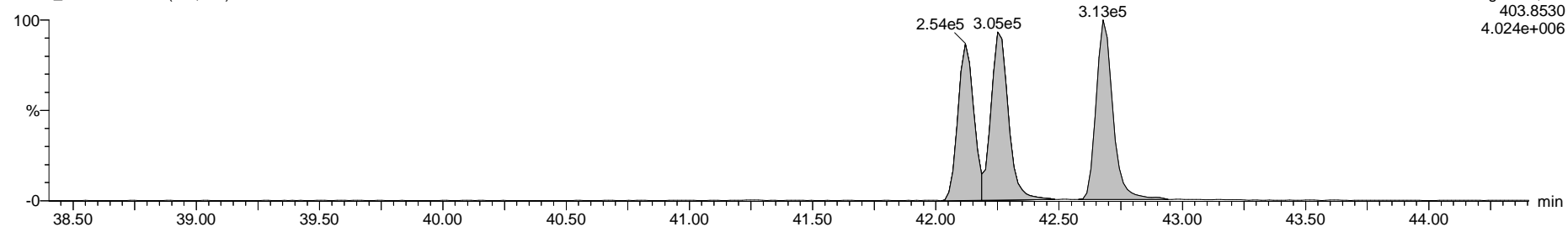


13C-1,2,3,4,7,8-HxCDD

DX9M_083S5 Smooth(SG,1x2)



DX9M_083S5 Smooth(SG,1x2)



PV WL 14-JUL-2009

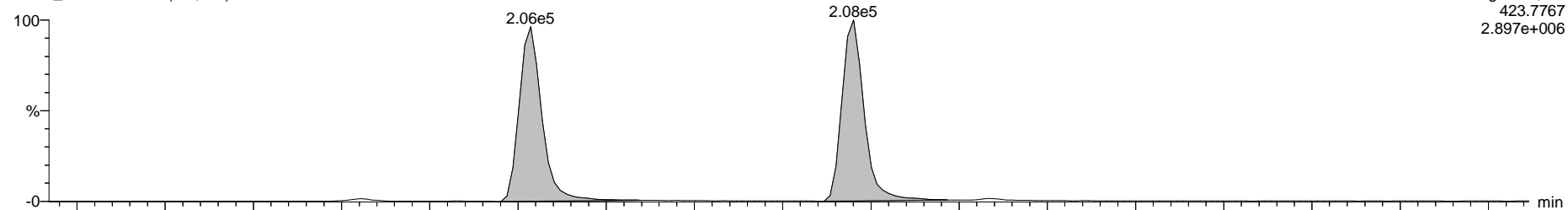


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

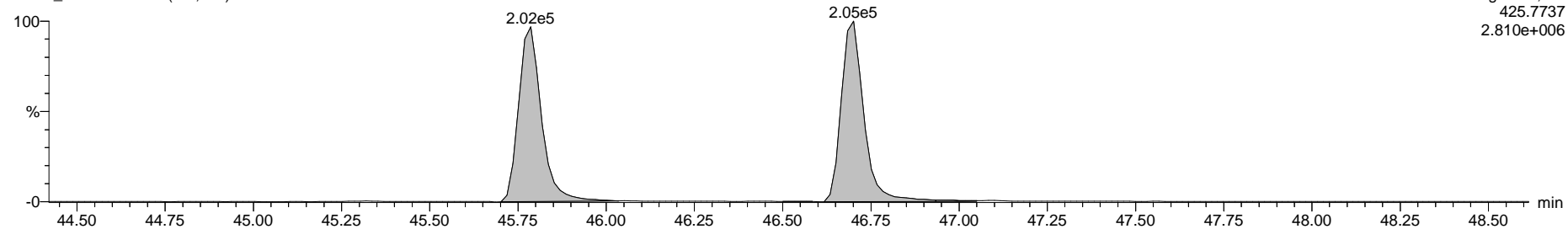
Total Hepta-Dioxins

DX9M_083S5 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
2.897e+006

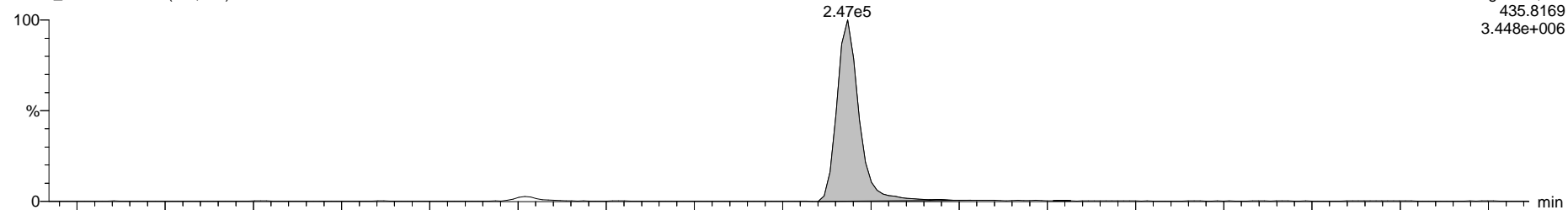
DX9M_083S5 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
2.810e+006

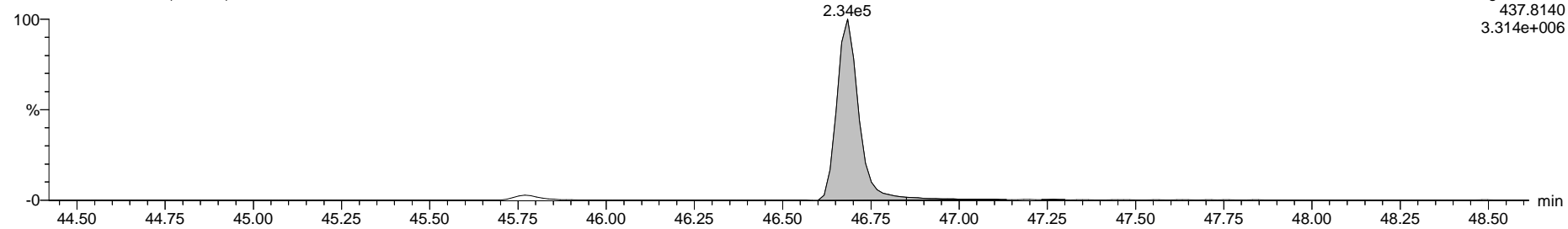
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S5 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
3.448e+006

DX9M_083S5 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
3.314e+006

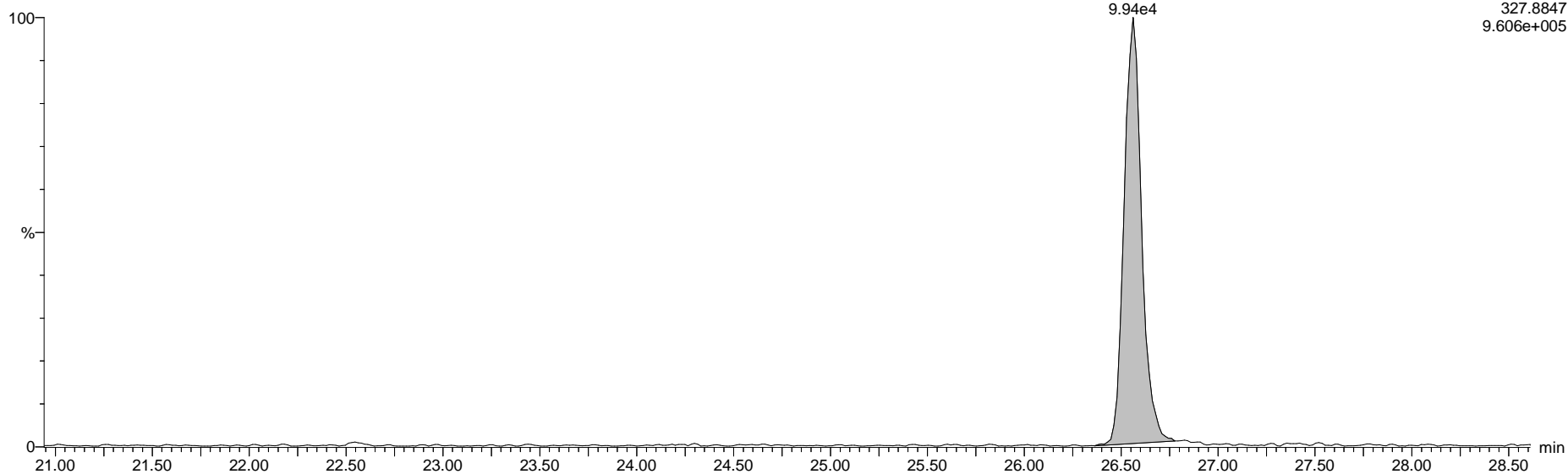


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

37Cl-2,3,7,8-TCDD

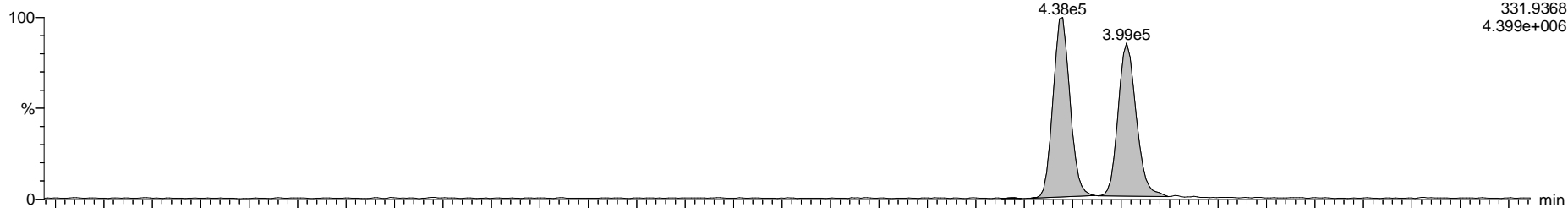
DX9M_083S5 Smooth(SG,1x2)



F3: Voltage SIR, EI+
327.8847
9.606e+005

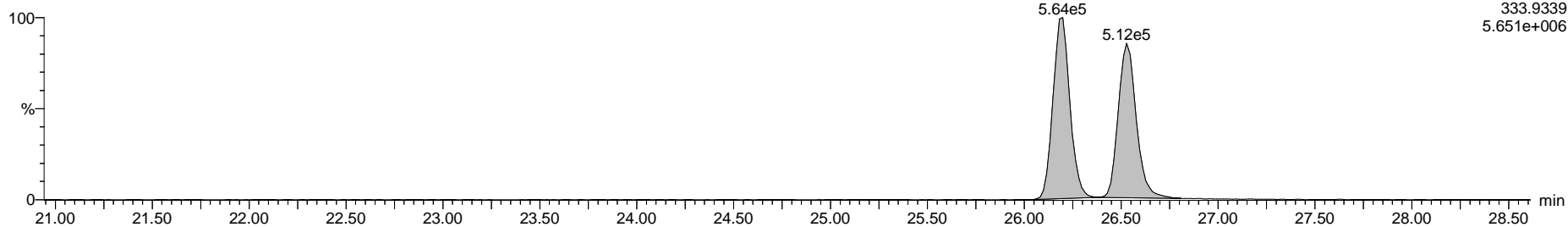
13C-1,2,3,4-TCDD

DX9M_083S5 Smooth(SG,1x2)



F3: Voltage SIR, EI+
331.9368
4.399e+006

DX9M_083S5 Smooth(SG,1x2)



F3: Voltage SIR, EI+
333.9339
5.651e+006

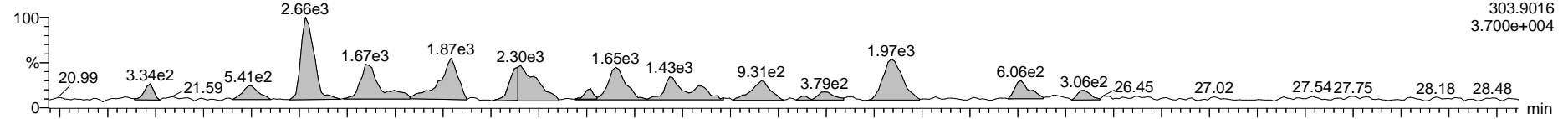


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

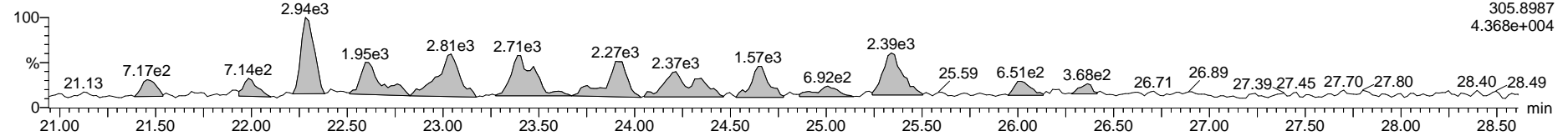
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S5 Smooth(SG,1x2)

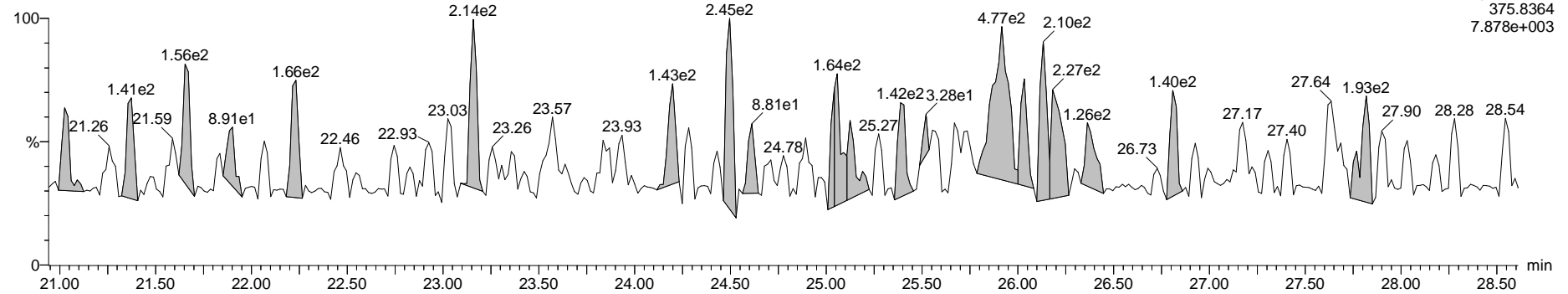


DX9M_083S5 Smooth(SG,1x2)



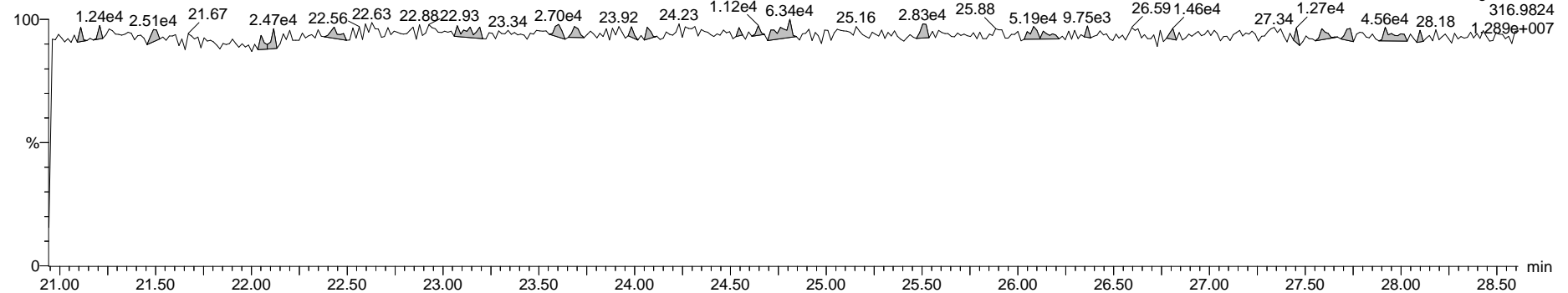
Hexa DPE

DX9M_083S5 Smooth(SG,1x2)



Tetra Lock

DX9M_083S5



PV WL 14-JUL-2009

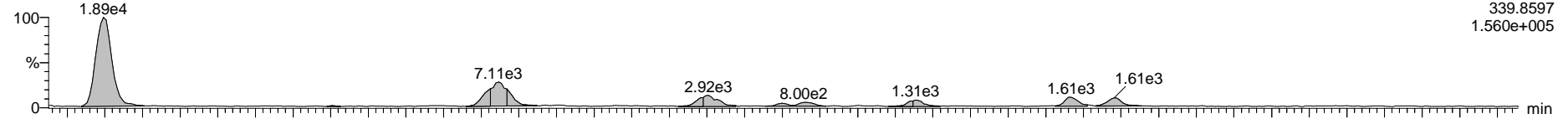


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

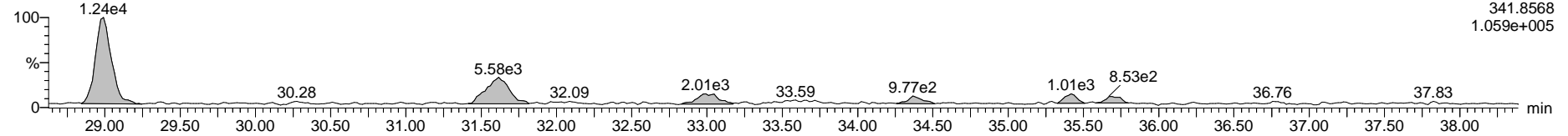
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S5 Smooth(SG,1x2)

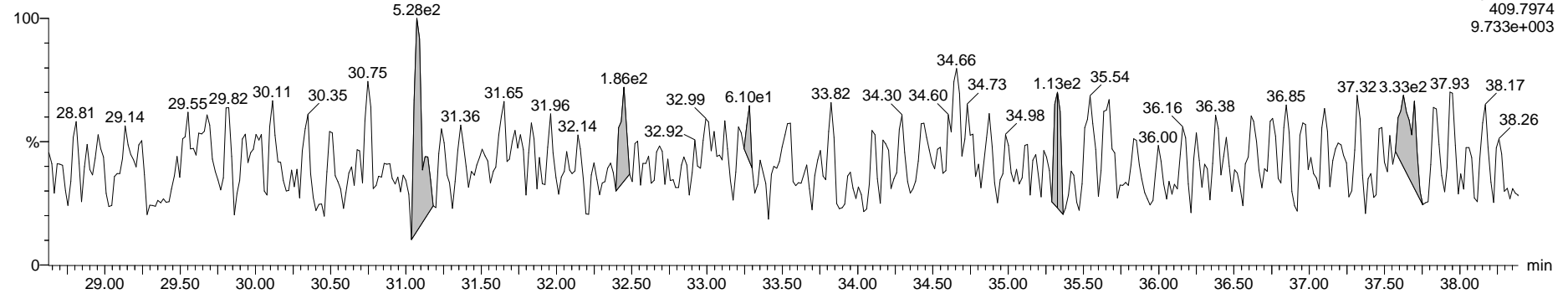


DX9M_083S5 Smooth(SG,1x2)



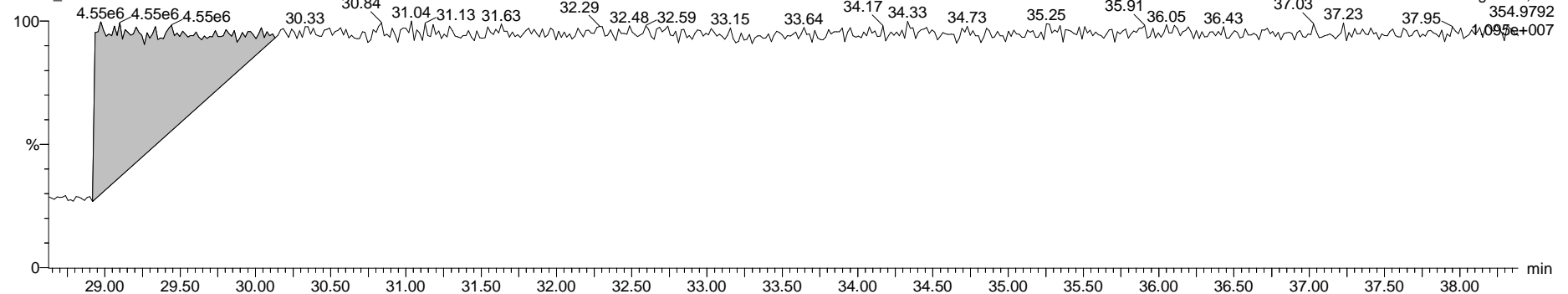
Hepta DPE

DX9M_083S5 Smooth(SG,1x2)



Penta Lock

DX9M_083S5



PV WL 14-JUL-2009

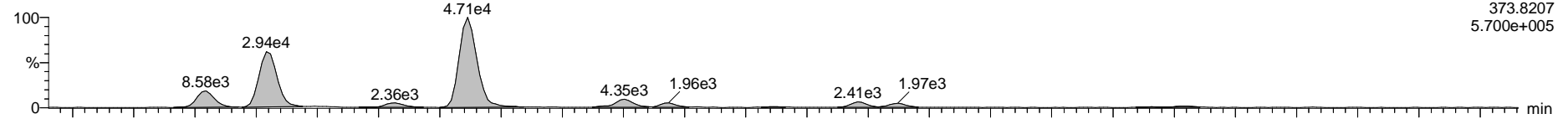


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

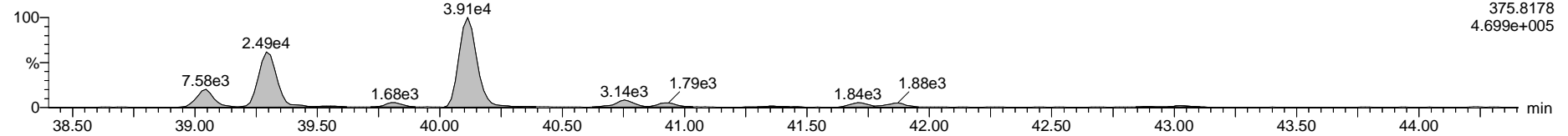
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S5 Smooth(SG,1x2)

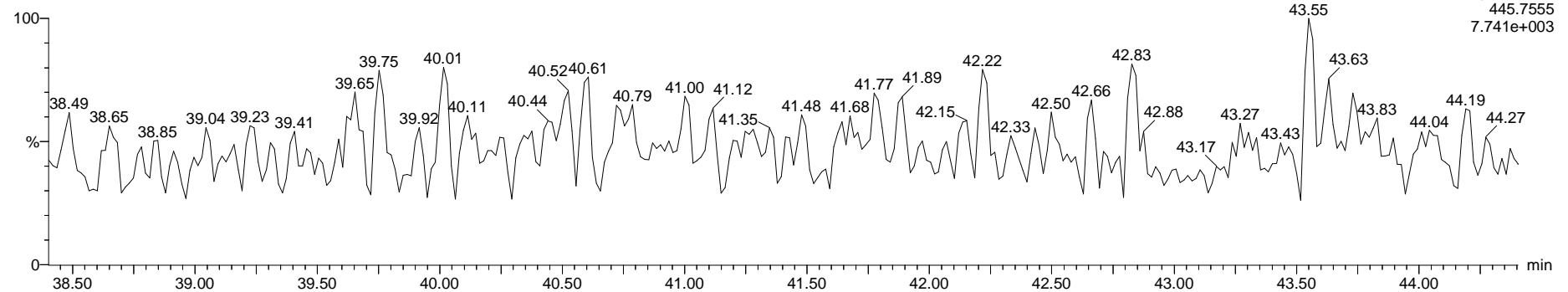


DX9M_083S5 Smooth(SG,1x2)



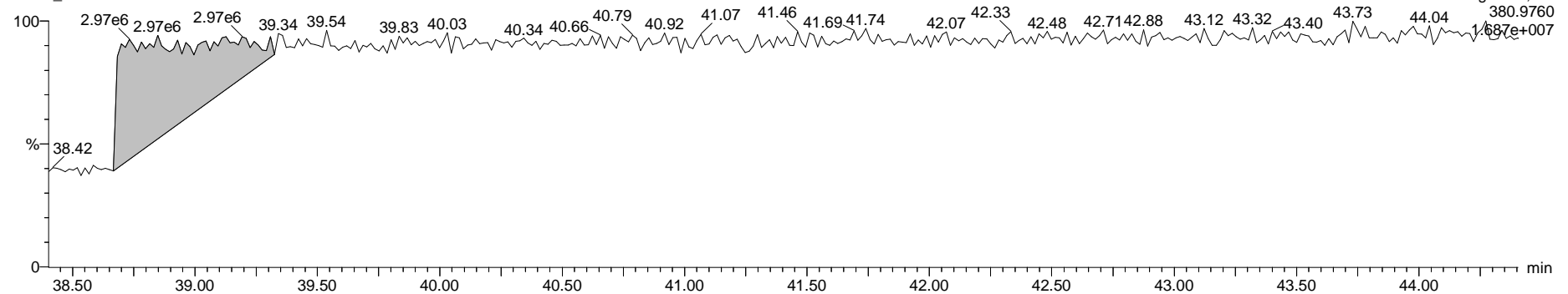
Octa DPE

DX9M_083S5 Smooth(SG,1x2)



Hexa Lock

DX9M_083S5

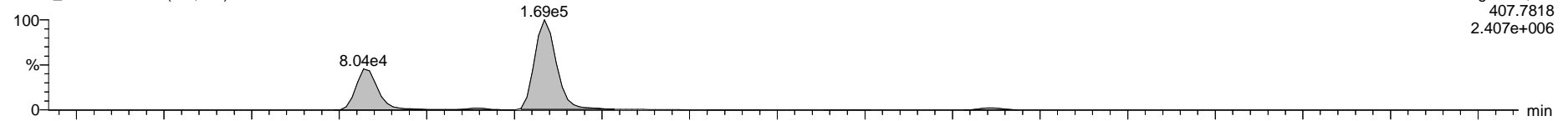


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

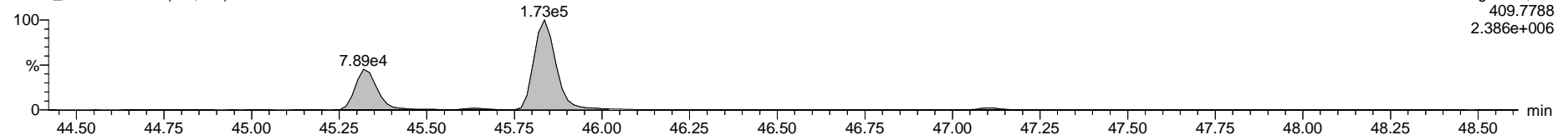
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

Total Hepta-Furans

DX9M_083S5 Smooth(SG,1x2)

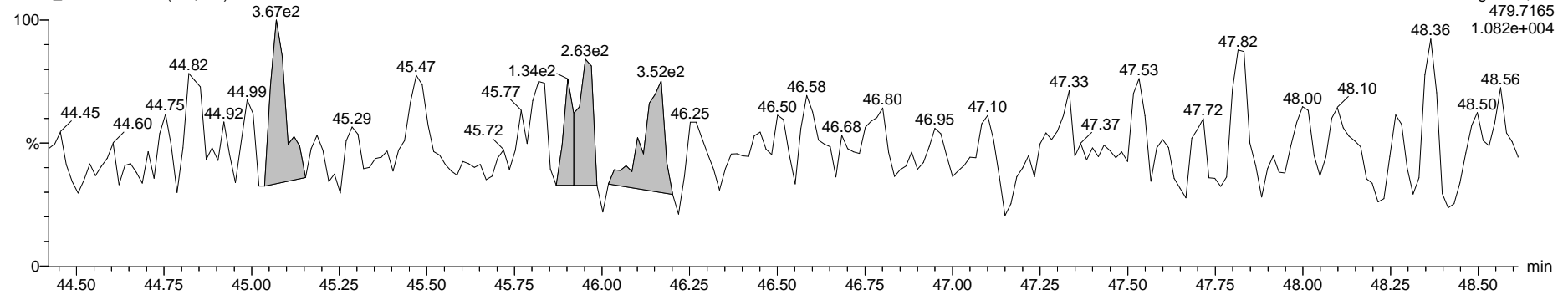


DX9M_083S5 Smooth(SG,1x2)



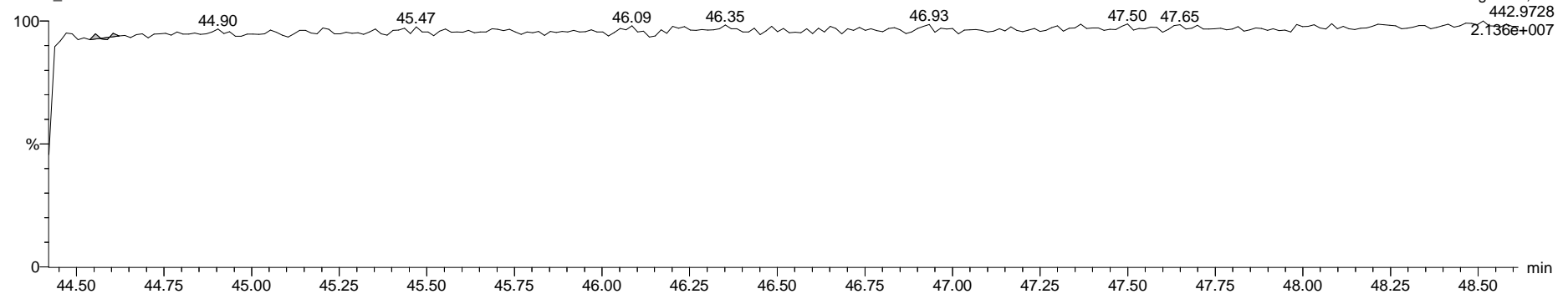
Nona DPE

DX9M_083S5 Smooth(SG,1x2)



Hepta Lock

DX9M_083S5



PV WL 14-JUL-2009

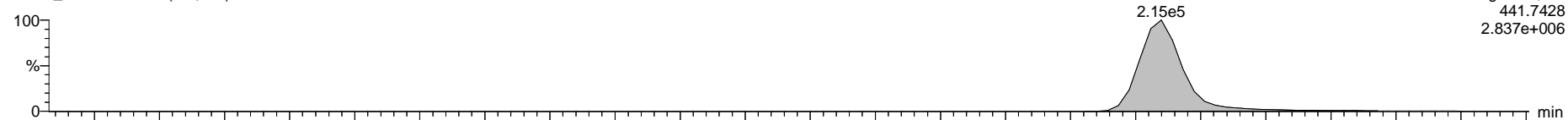


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

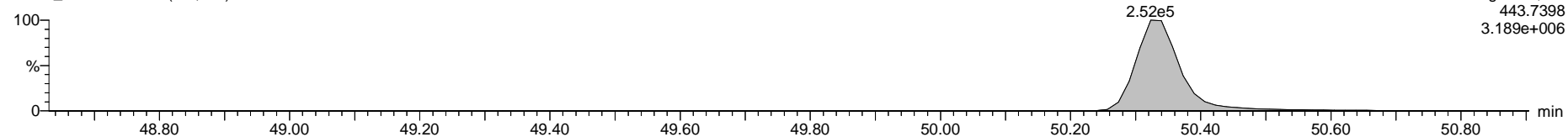
Name: DX9M_083S5, Date: 10-Jul-2009, Time: 12:07:12, ID: L12912-1,I,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S5 Smooth(SG,1x2)

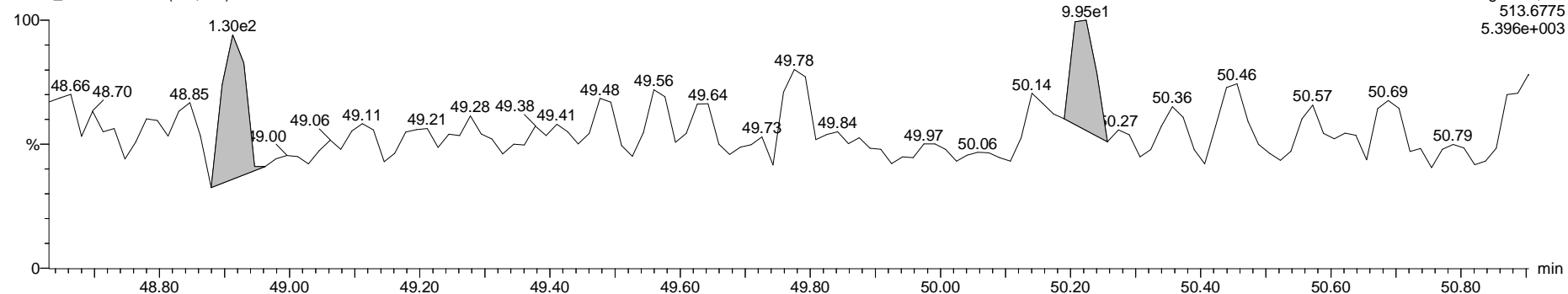


DX9M_083S5 Smooth(SG,1x2)



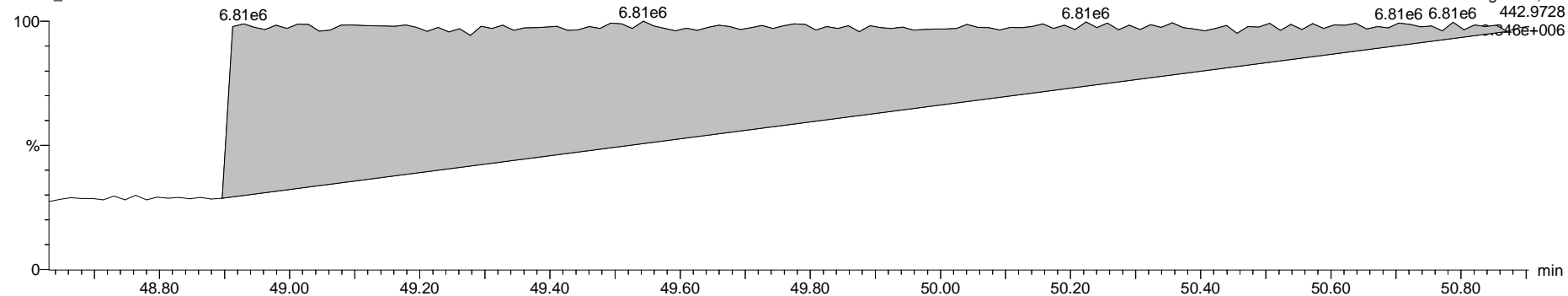
Deca DPE

DX9M_083S5 Smooth(SG,1x2)



Octa Lock

DX9M_083S5

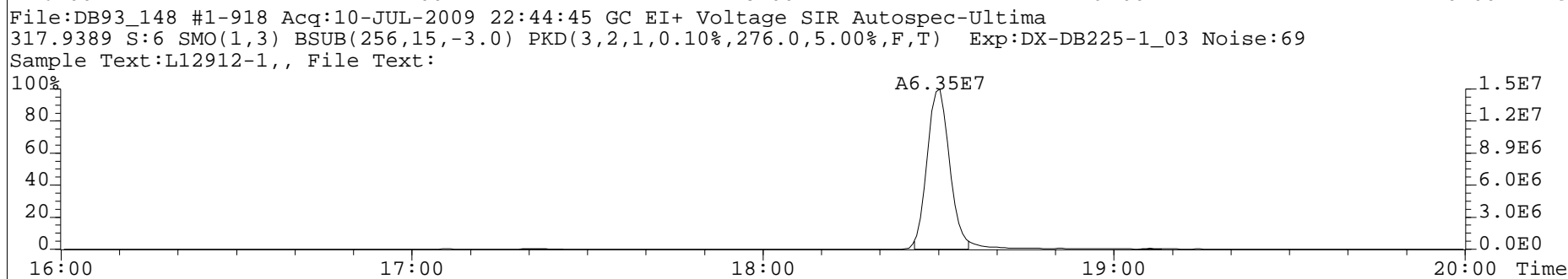
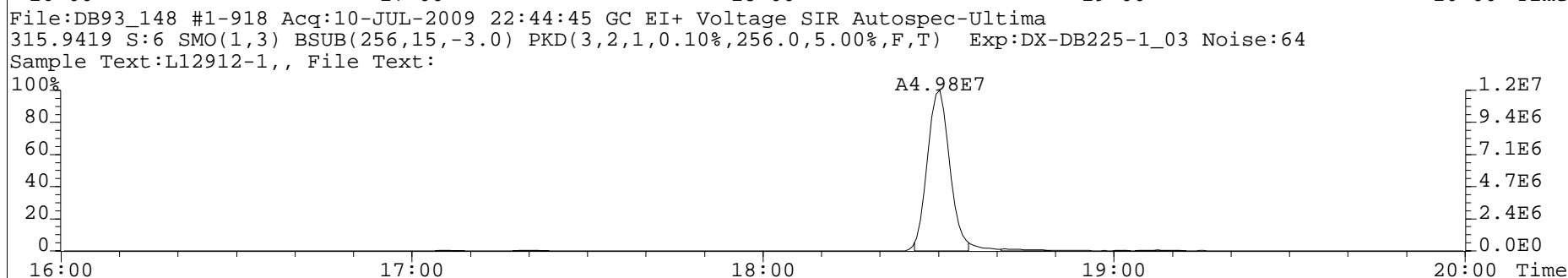
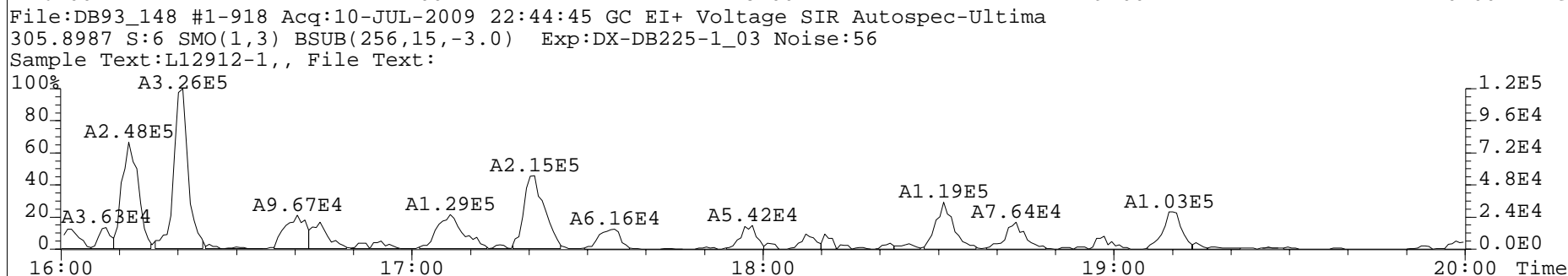
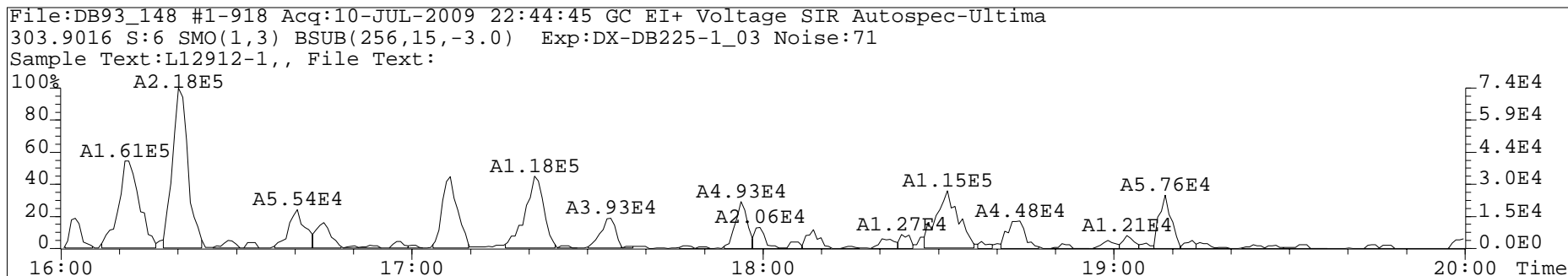


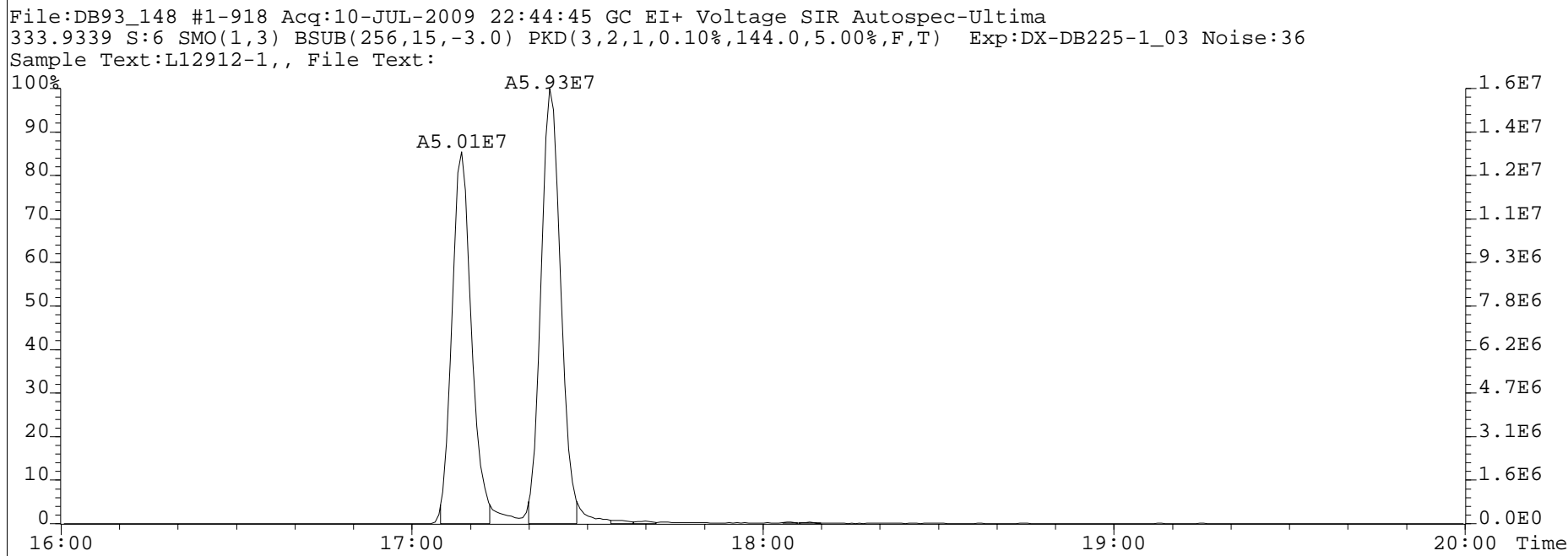
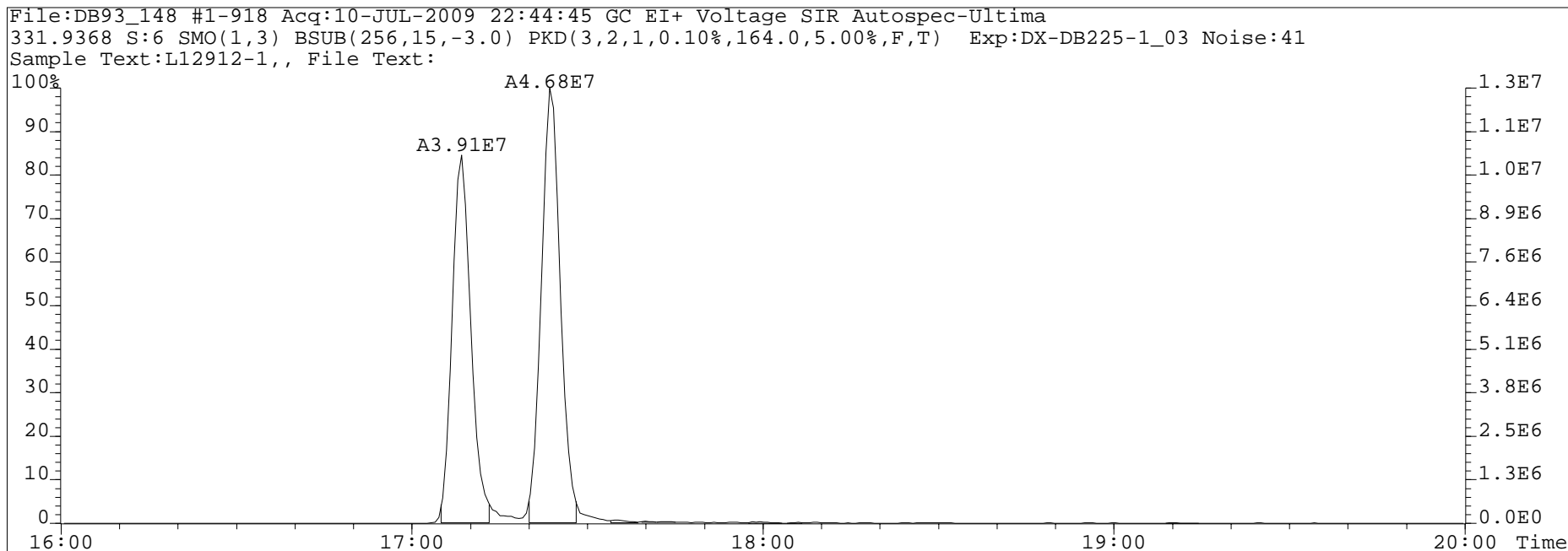
Run #10 Filename DB93_148 S: 6 I: 1 Acquired: 10-JUL-09 22:44:45 Processed: 15-JUL-09 13:58:40
 Run: db93_148-a Analyte: 1613B-db-s4 Cal: db93_146d> Results: db93_148-a Version: V3.6 6-JAN-2000 17:51:42
 Sample text: L12912-1,, Comments: 1,WG29271,2.0/20uL
 sample size: 9.890000 conc units: pg/g total toxicity: 0.05 F1: 1.0000 F2: 1.0000

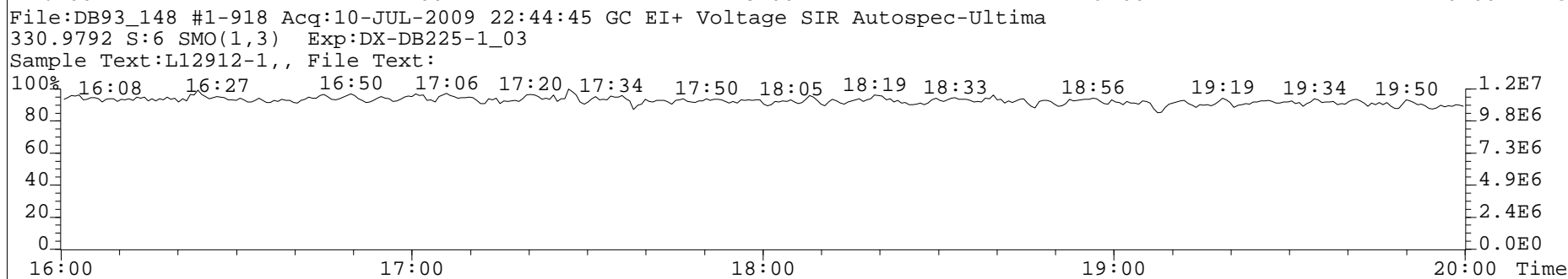
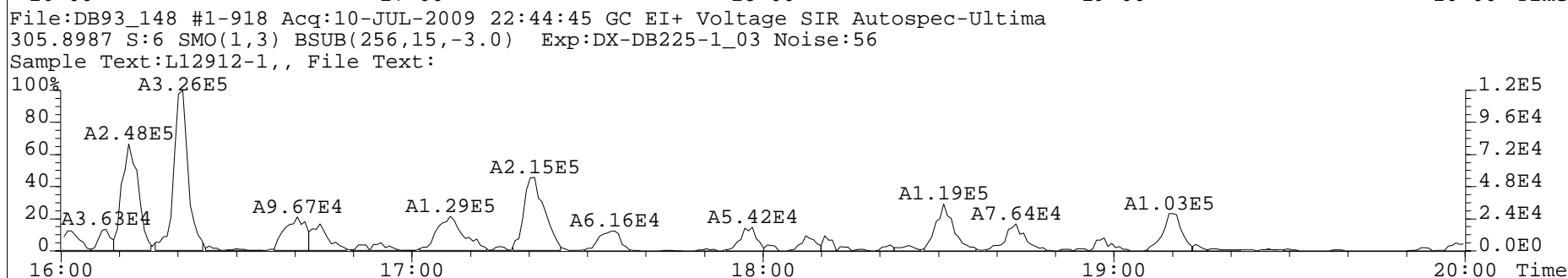
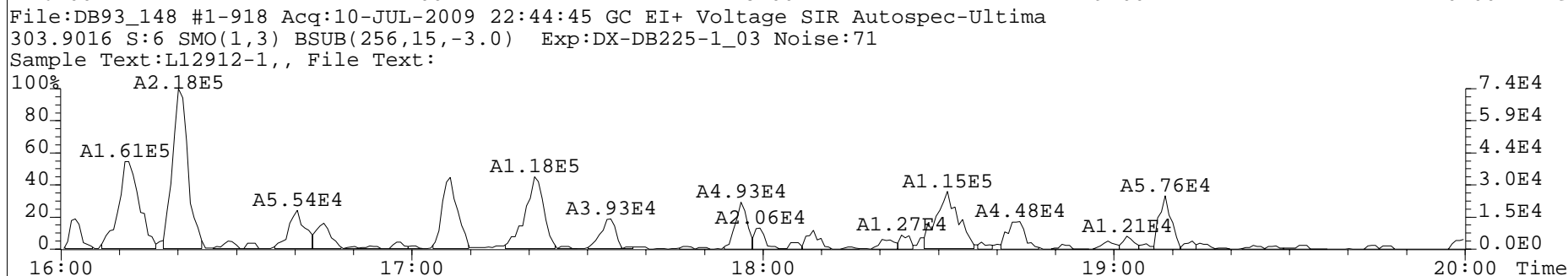
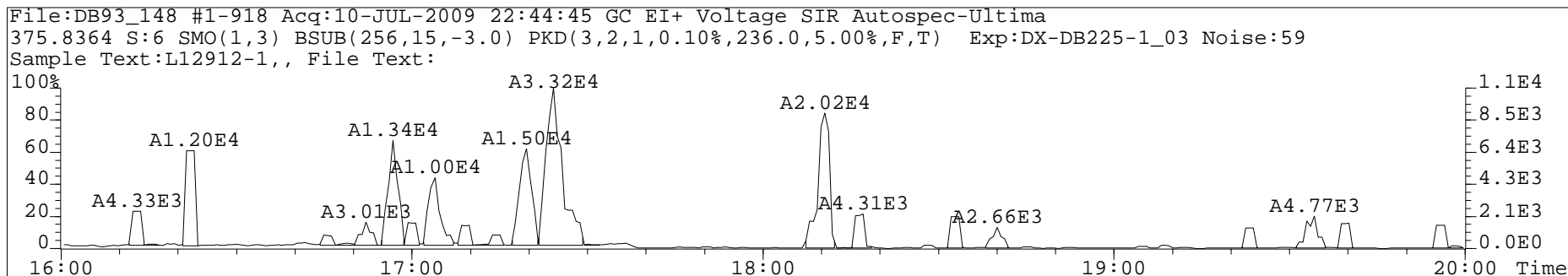
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	2.33e+05	0.97	n	18:31	0.531	0	0.0123	- Y
2 IS/RT	13C-2,3,7,8-TCDF	1	1.13e+08	0.78	y	18:30	148.076	-	0.0065	73.2 n
3 RS	13C-1,2,3,4-TCDD	1	1.06e+08	0.79	y	17:23	16.317	-	-	- n
4 Tot	Hexa DPE	0	*		NotFnd		*	-	-	- n
5 Tot	Tetra Lock	-	-		-		-	-	-	- n

Svd BAA
22-Jul-09

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15-July 2009
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Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_082E-C.qld

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fails?	RT	pg	DL	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	10.190	1.38e4	0.76	NO	25.32	2.970	0.1317		1.83e3	6.31e2
2	1,2,3,7,8-PeCDF	10.190	2.61e3	1.41	NO	33.66	0.729	0.0715		4.65e2	4.29e2
3	2,3,4,7,8-PeCDF	10.190	4.55e3	1.49	NO	35.40	1.314	0.0658		4.65e2	4.29e2
4	1,2,3,4,7,8-HxCDF	10.190	1.09e4	1.07	NO	40.75	3.939	0.0405		2.11e2	3.70e2
5	1,2,3,6,7,8-HxCDF	10.190	5.76e3	1.21	NO	40.92	1.886	0.0364		2.11e2	3.70e2
6	2,3,4,6,7,8-HxCDF	10.190	5.46e3	1.23	NO	41.86	2.111	0.0409		2.11e2	3.70e2
7	1,2,3,7,8,9-HxCDF	10.190	1.58e3	1.28	NO	42.02	<i>ND</i> 0.725	0.0498		2.11e2	3.70e2
8	1,2,3,4,6,7,8-HpCDF	10.190	2.17e5	1.00	NO	45.32	99.752	0.1324		8.30e2	8.79e2
9	1,2,3,4,7,8,9-HpCDF	10.190	9.77e3	0.98	NO	47.10	5.325	0.1540		8.30e2	8.79e2
10	OCDF	10.190	7.99e5	0.87	NO	50.34	474.558	0.0469		2.67e2	1.73e2
11	2,3,7,8-TCDD	10.190	1.98e3	0.75	NO	26.53	0.475	0.0445		4.38e2	2.86e2
12	1,2,3,7,8-PeCDD	10.190	5.38e3	0.70	NO	36.21	1.878	0.0616		4.13e2	3.23e2
13	1,2,3,4,7,8-HxCDD	10.190	6.06e3	1.16	NO	42.14	2.731	0.0836		5.15e2	5.30e2
14	1,2,3,6,7,8-HxCDD	10.190	3.57e4	1.21	NO	42.27	14.822	0.0808		5.15e2	5.30e2
15	1,2,3,7,8,9-HxCDD	10.190	1.82e4	1.20	NO	42.69	8.000	0.0836		5.15e2	5.30e2
16	1,2,3,4,6,7,8-HpCDD	10.190	6.04e5	1.00	NO	46.68	280.015	0.1992		1.49e3	9.75e2
17	OCDD	10.190	4.10e6	0.88	NO	50.24	2256.570	0.0531		2.85e2	2.53e2
18	13C-2,3,7,8-TCDF	10.190	1.19e6	0.78	NO	25.29	155.147	0.2201	79.0	3.45e3	3.58e3
19	13C-1,2,3,7,8-PeCDF	10.190	8.42e5	1.52	NO	33.63	157.530	0.1569	80.3	1.89e3	1.61e3
20	13C-2,3,4,7,8-PeCDF	10.190	8.01e5	1.54	NO	35.38	154.063	0.1613	78.5	1.89e3	1.61e3
21	13C-1,2,3,4,7,8-HxCDF	10.190	5.64e5	0.50	NO	40.72	142.735	0.2047	72.7	2.90e3	1.44e3
22	13C-1,2,3,6,7,8-HxCDF	10.190	6.56e5	0.52	NO	40.90	142.585	0.1759	72.6	2.90e3	1.44e3
23	13C-2,3,4,6,7,8-HxCDF	10.190	5.84e5	0.50	NO	41.84	138.426	0.1918	70.5	2.90e3	1.44e3
24	13C-1,2,3,7,8,9-HxCDF	10.190	5.30e5	0.52	NO	42.88	134.513	0.2055	68.5	2.90e3	1.44e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.190	4.04e5	0.45	NO	45.30	127.459	0.1436	64.9	1.40e3	1.05e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.190	3.76e5	0.43	NO	47.08	128.993	0.1559	65.7	1.40e3	1.05e3
27	13C-2,3,7,8-TCDD	10.190	9.15e5	0.77	NO	26.51	155.468	0.1382	79.2	8.57e2	2.54e3
28	13C-1,2,3,7,8-PeCDD	10.190	6.41e5	0.62	NO	36.20	168.155	0.0941	85.7	1.06e3	4.40e2
29	13C-1,2,3,4,7,8-HxCDD	10.190	5.32e5	1.27	NO	42.12	140.751	0.1554	71.7	1.17e3	1.99e3
30	13C-1,2,3,6,7,8-HxCDD	10.190	6.23e5	1.23	NO	42.25	141.021	0.1331	71.9	1.17e3	1.99e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.190	4.39e5	1.02	NO	46.68	132.562	0.1643	67.5	1.37e3	1.55e3
32	13C-OCDD	10.190	7.70e5	0.89	NO	50.24	204.552	0.0978	52.1	1.31e3	6.67e2
33	13C-1,2,3,4-TCDD	10.190	1.06e6	0.79	NO	26.18	5.870	0.0045	3.0	8.57e2	2.54e3
34	13C-1,2,3,7,8,9-HxCDD	10.190	7.61e5	1.23	NO	42.68	6.635	0.0051	3.4	1.17e3	1.99e3
35	37Cl-2,3,7,8-TCDD	10.190	1.05e5			26.55	18.737	0.0416	95.5		9.73e2
36	Total Tetra-Furans	10.190					<i>20.624</i> 21.956	0.1317			6.31e2
37	Total Tetra-Dioxins	10.190					<i>18.648</i> 21.414	0.0445	<i>0.0491</i>		2.86e2
38	Total Penta-Furans	10.190					<i>28.419</i> 26.173	0.0693	<i>0.0715</i>		4.29e2
39	Total Penta-Dioxins	10.190					<i>24.372</i> 25.629	0.0616			3.23e2
40	Total Hexa-Furans	10.190					<i>85.3</i> 87.708	0.0983	<i>0.0498</i>		3.70e2
41	Total Hexa-Dioxins	10.190					125.265	0.0769	<i>0.0836</i>		5.30e2
42	Total Hepta-Furans	10.190					335.419	0.1059	<i>0.1540</i>		8.79e2
43	Total Hepta-Dioxins	10.190					604.522	0.1992			9.75e2
44	Hexa DPE	1.000	1.90e3			25.90					5.76e2
45	Hepta DPE	1.000	1.56e2			37.45					3.31e2
46	Octa DPE	1.000	1.09e2			42.37					2.53e2
47	Nona DPE	1.000	1.23e2			46.40					2.57e2
48	Deca DPE	1.000	1.18e2			50.31					5.59e2
49	Tetra Lock	1.000	5.36e3			26.00					9.86e4
50	Penta Lock	1.000	1.59e5			31.11					4.64e4
51	Hexa Lock	1.000	9.93e4			39.77					8.74e4
52	Hepta Lock	1.000	1.08e4			44.74					6.03e4
53	Octa Lock	1.000	2.88e4			49.84					2.25e4

PV WL 13-JUL-2009
Svd BAA 22-Jul-09



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_082E-C.qld

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	23.90	0.822	NO	1.857
2	23.39	0.788	NO	2.406
3	23.03	0.843	NO	2.230
4	22.60	0.796	NO	2.536
5	22.28	0.738	NO	2.519
6	21.99	0.631	YES	0.651
7	21.46	0.733	NO	0.734
8	28.28	0.808	NO	0.081
9	26.33	0.667	NO	0.558
10	26.00	0.763	NO	1.143
11	25.32	0.759	NO	2.970
12	24.99	0.799	NO	0.647
13	24.65	0.782	NO	1.223
14	24.20	0.724	NO	1.801

Tetradioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	26.53	0.751	NO	0.475
2	26.40	0.663	NO	1.317
3	26.21	0.807	NO	1.521
4	25.69	0.654	YES	0.437
5	25.29	1.563	YES	1.574
6	25.14	0.664	NO	0.387
7	24.96	0.937	YES	0.214
8	24.74	0.759	NO	2.281
9	23.80	0.789	NO	1.091
10	23.42	0.739	NO	4.861
11	22.99	0.792	NO	6.715
12	27.19	0.635	YES	0.395
13	26.81	0.615	YES	0.146

Pentafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	33.66	1.406	NO	0.729
2	33.50	1.782	NO	0.399
3	32.97	1.451	NO	2.262
4	32.01	0.975	YES	0.200
5	31.62	1.500	NO	5.850
6	31.20	1.147	YES	0.311
7	28.99	1.599	NO	12.653
8	35.69	1.368	NO	1.335
9	35.40	1.491	NO	1.314
10	34.37	1.769	NO	0.877
11	34.04	2.040	YES	0.241

PV WL 13-JUL-2009

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_082E-C.qld

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

Pentadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	33.28	0.597	NO	1.863
2	32.12	0.600	NO	7.995
3	37.14	0.522	NO	0.513
4	36.52	0.555	NO	0.496
5	36.21	0.696	NO	1.878
6	35.80	0.476	YES	0.157
7	35.58	0.724	YES	1.101
8	35.16	0.641	NO	1.644
9	34.97	0.679	NO	0.791
10	34.57	0.555	NO	3.021
11	34.28	0.545	NO	2.316
12	33.95	0.567	NO	3.855

Hexafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	41.86	1.231	NO	2.111
2	41.71	1.275	NO	2.007
3	41.33	1.024	YES	0.390
4	41.10	1.623	YES	0.144
5	40.92	1.211	NO	1.886
6	40.75	1.071	NO	3.939
7	40.11	1.181	NO	41.786
8	39.80	1.047	YES	1.614
9	39.54	1.442	YES	0.262
10	39.29	1.165	NO	25.196
11	39.03	1.194	NO	7.650
12	43.02	1.260	NO	0.725

Hexadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	42.69	1.195	NO	8.000
2	42.27	1.206	NO	14.822
3	42.14	1.156	NO	2.731
4	41.45	1.156	NO	2.342
5	41.25	1.223	NO	39.049
6	40.87	1.296	NO	10.768
7	40.06	1.205	NO	47.552

Heptafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	47.10	0.977	NO	5.325
2	45.84	1.010	NO	226.951
3	45.64	1.004	NO	3.391
4	45.32	0.999	NO	99.752

Heptadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	46.68	1.002	NO	280.015
2	45.79	1.005	NO	324.507

PV WL 13-JUL-2009



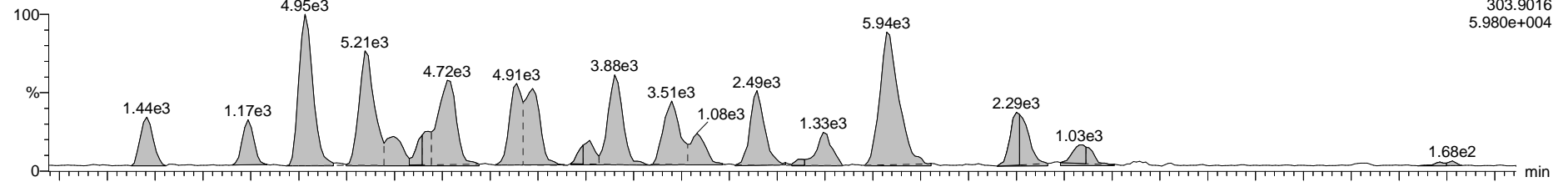
Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

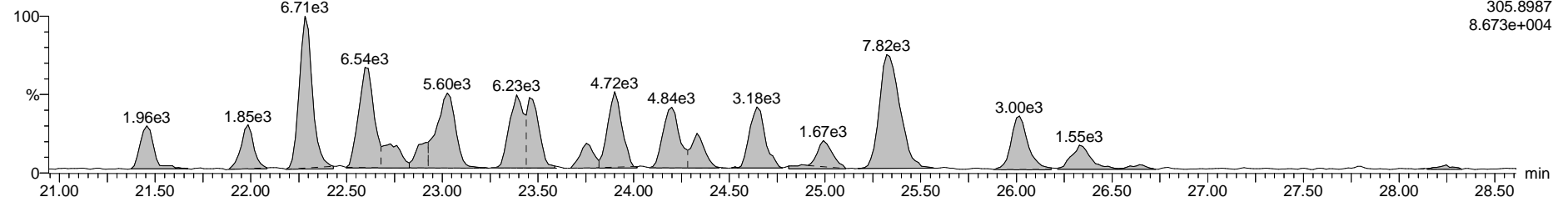
Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_082ES29 Smooth(SG,1x2)

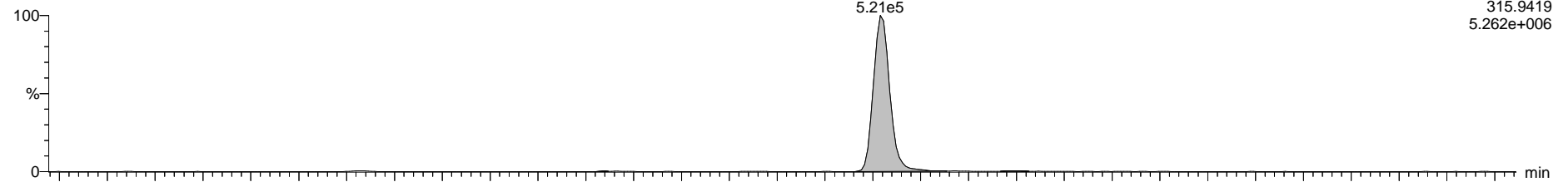


DX9M_082ES29 Smooth(SG,1x2)

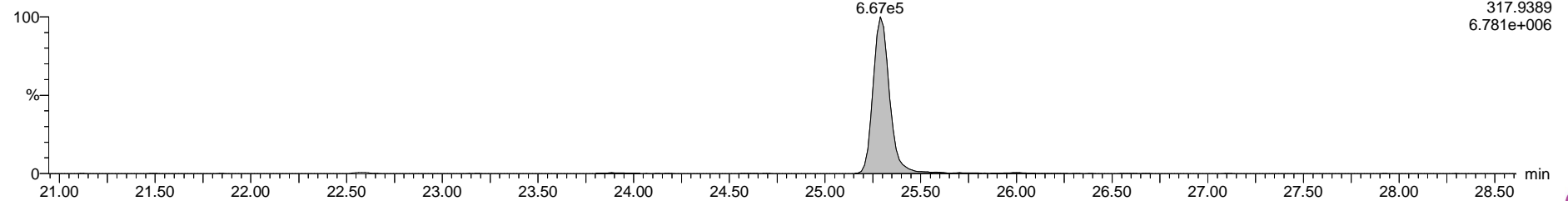


13C-2,3,7,8-TCDF

DX9M_082ES29 Smooth(SG,1x2)



DX9M_082ES29 Smooth(SG,1x2)

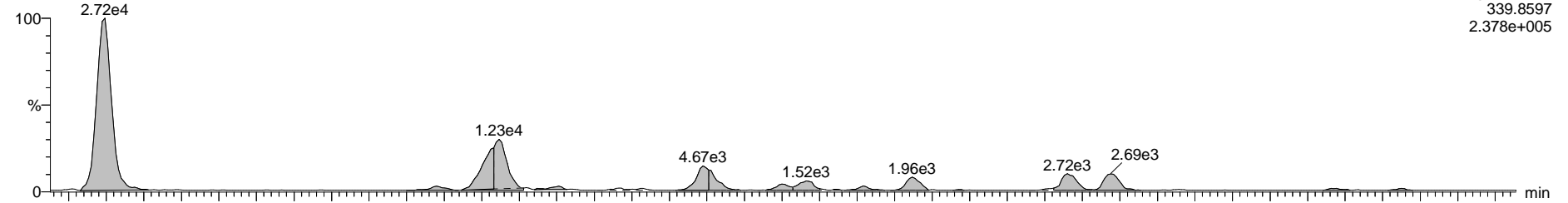


Axys Analytical Services, Ltd.

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

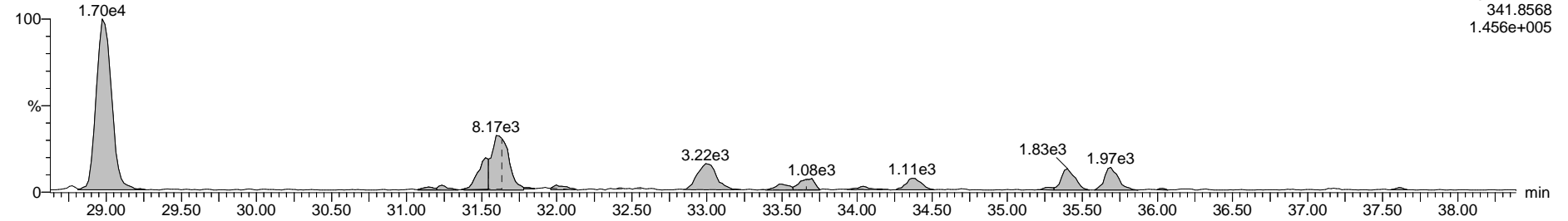
Total Penta-Furans

DX9M_082ES29 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
2.378e+005

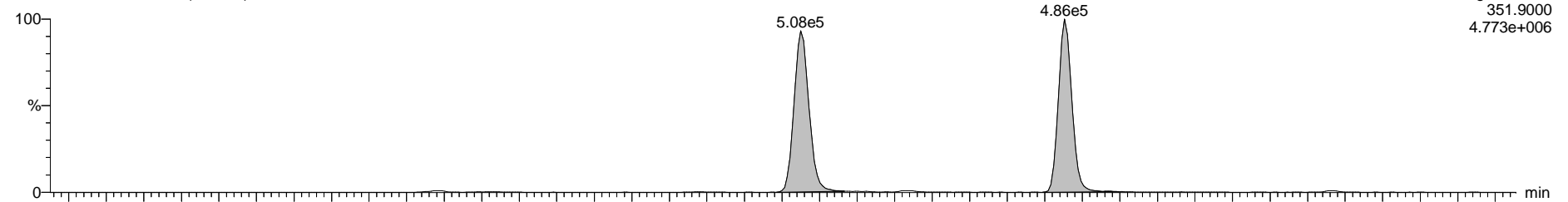
DX9M_082ES29 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
1.456e+005

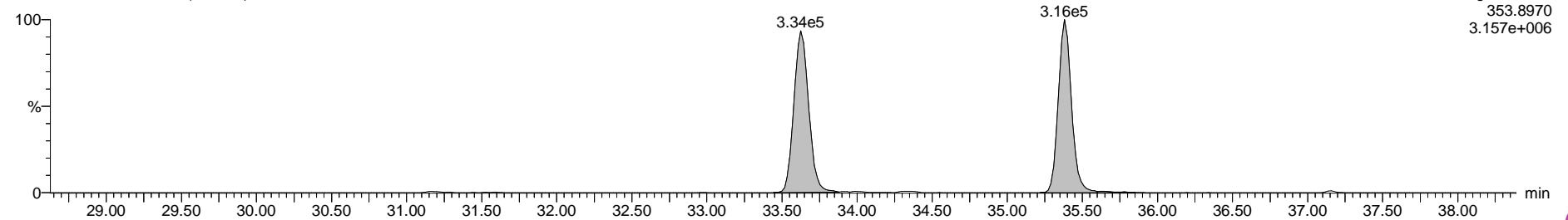
13C-1,2,3,7,8-PeCDF

DX9M_082ES29 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
4.773e+006

DX9M_082ES29 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8970
3.157e+006

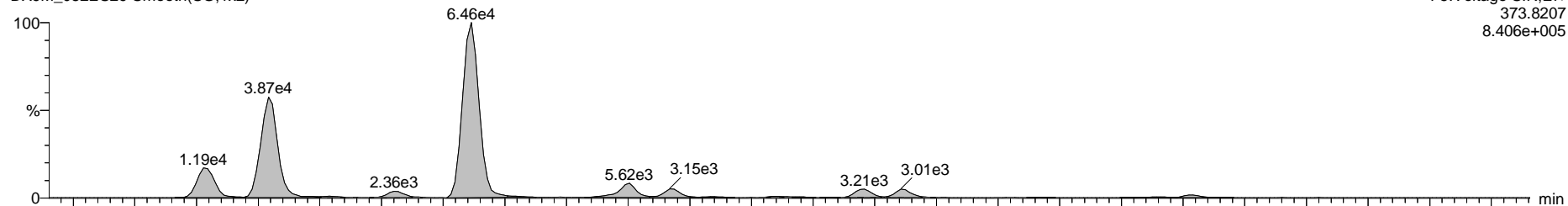


Axys Analytical Services, Ltd.

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

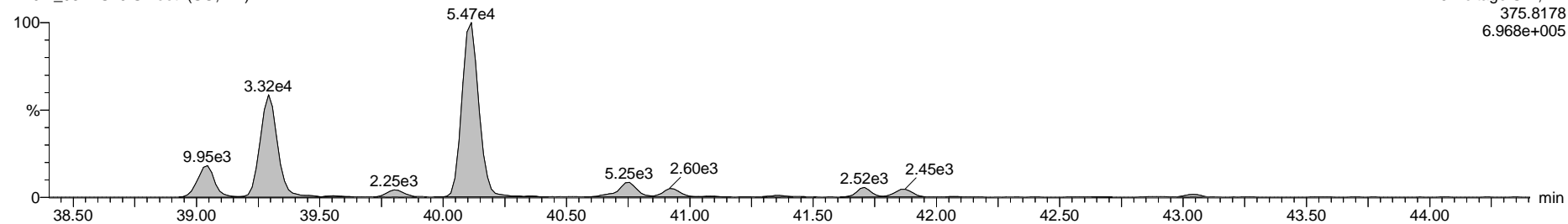
Total Hexa-Furans

DX9M_082ES29 Smooth(SG,1x2)



F5:Voltage SIR,EI+
373.8207
8.406e+005

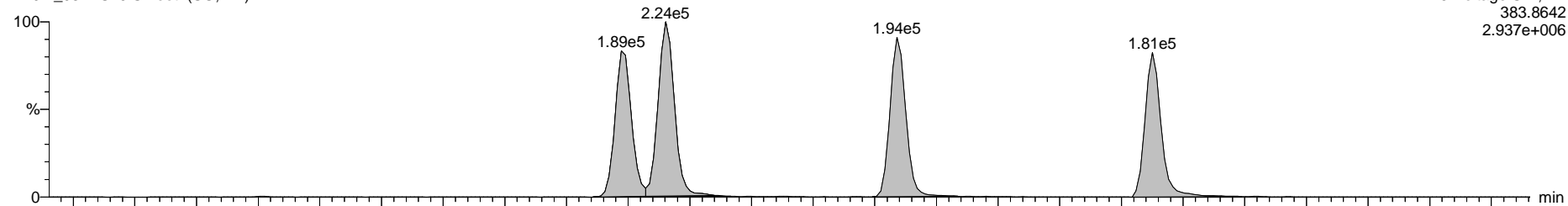
DX9M_082ES29 Smooth(SG,1x2)



F5:Voltage SIR,EI+
375.8178
6.968e+005

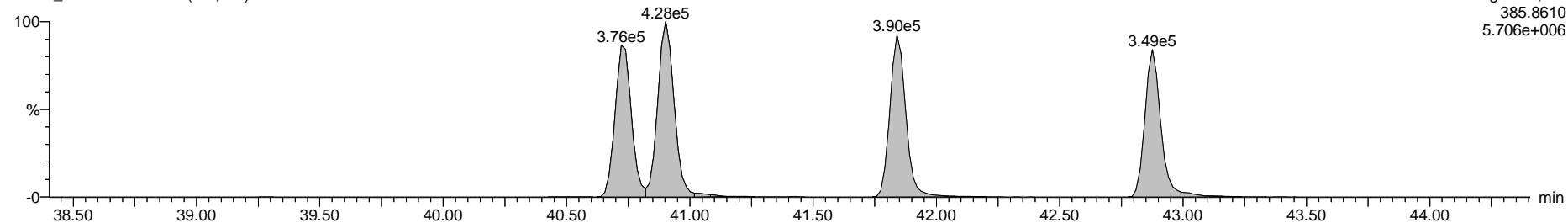
13C-1,2,3,4,7,8-HxCDF

DX9M_082ES29 Smooth(SG,1x2)



F5:Voltage SIR,EI+
383.8642
2.937e+006

DX9M_082ES29 Smooth(SG,1x2)



F5:Voltage SIR,EI+
385.8610
5.706e+006

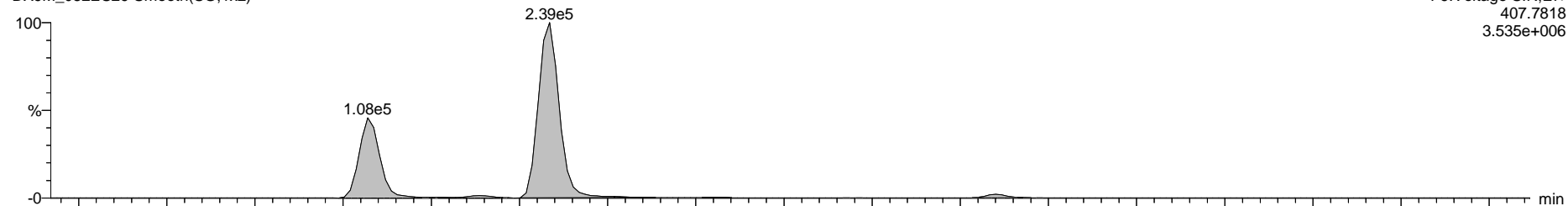


Axys Analytical Services, Ltd.

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

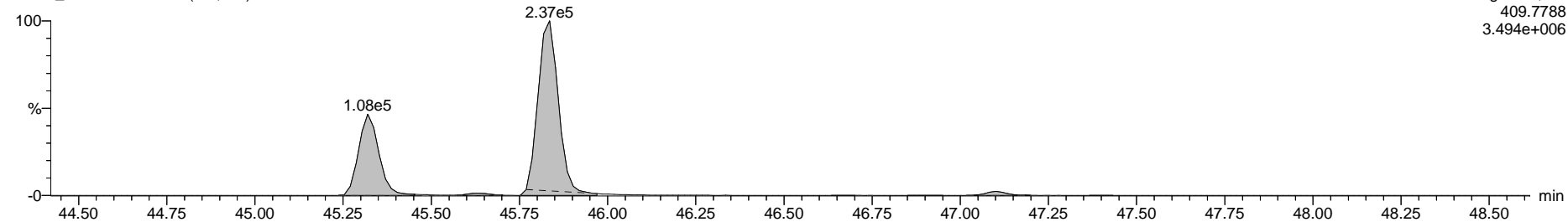
Total Hepta-Furans

DX9M_082ES29 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
3.535e+006

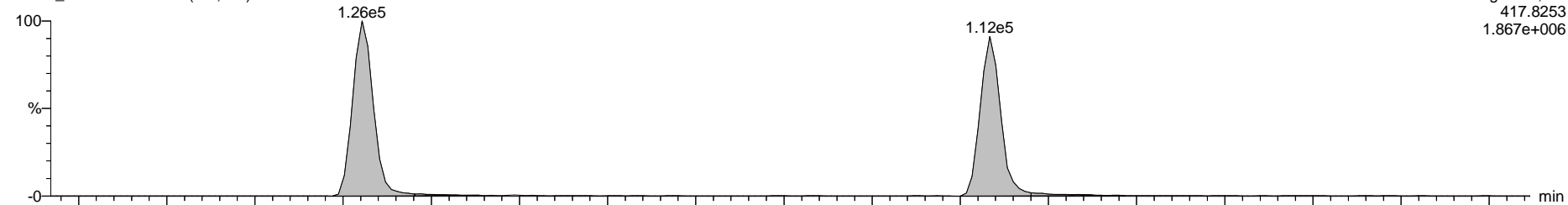
DX9M_082ES29 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
3.494e+006

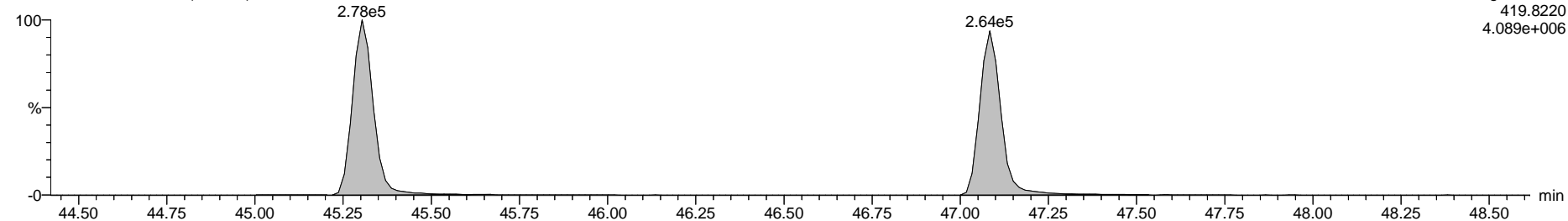
13C-1,2,3,4,6,7,8-HpCDF

DX9M_082ES29 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
1.867e+006

DX9M_082ES29 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
4.089e+006

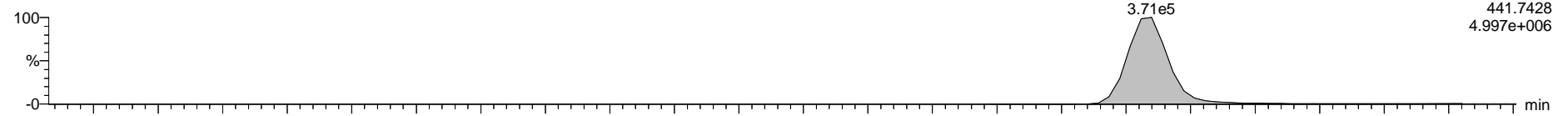


Axys Analytical Services, Ltd.

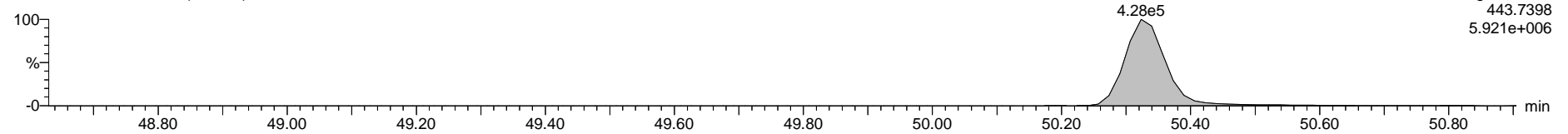
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OCDF

DX9M_082ES29 Smooth(SG,1x2)

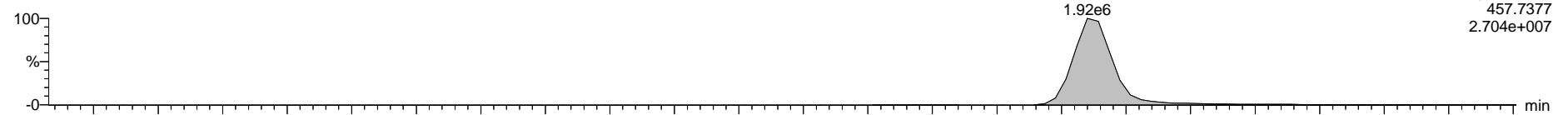


DX9M_082ES29 Smooth(SG,1x2)

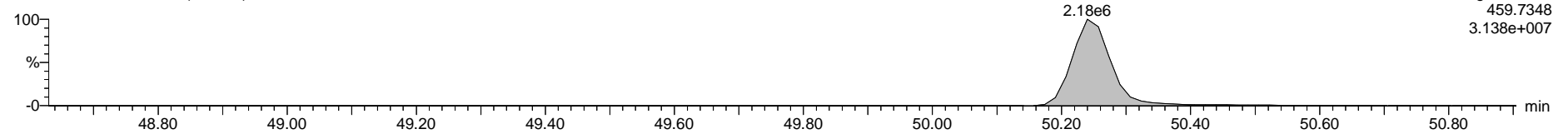


OCDD

DX9M_082ES29 Smooth(SG,1x2)

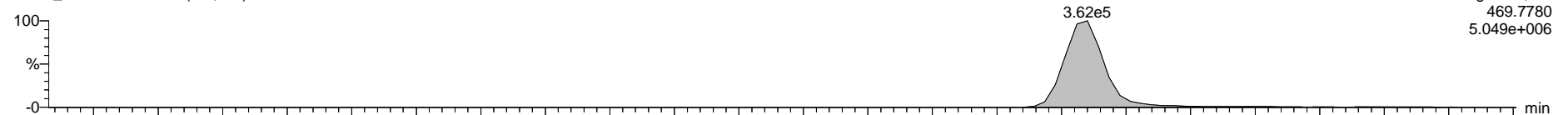


DX9M_082ES29 Smooth(SG,1x2)

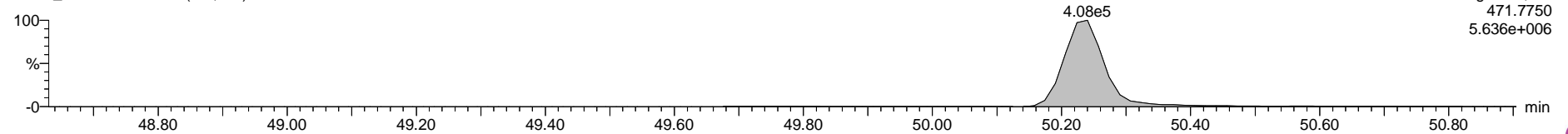


13C-OCDD

DX9M_082ES29 Smooth(SG,1x2)



DX9M_082ES29 Smooth(SG,1x2)

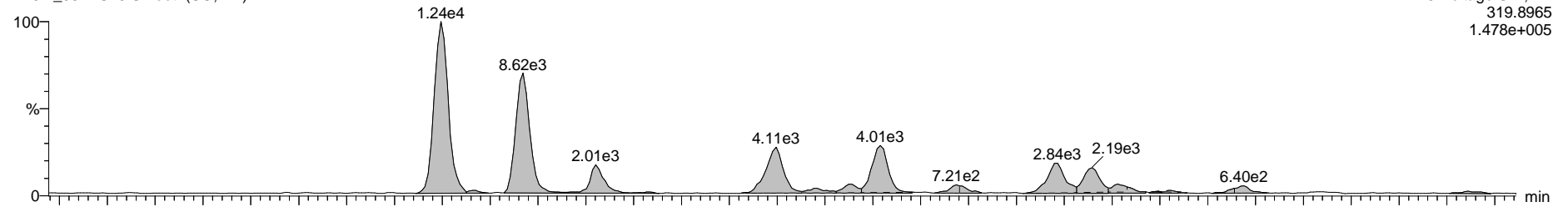


Axys Analytical Services, Ltd.

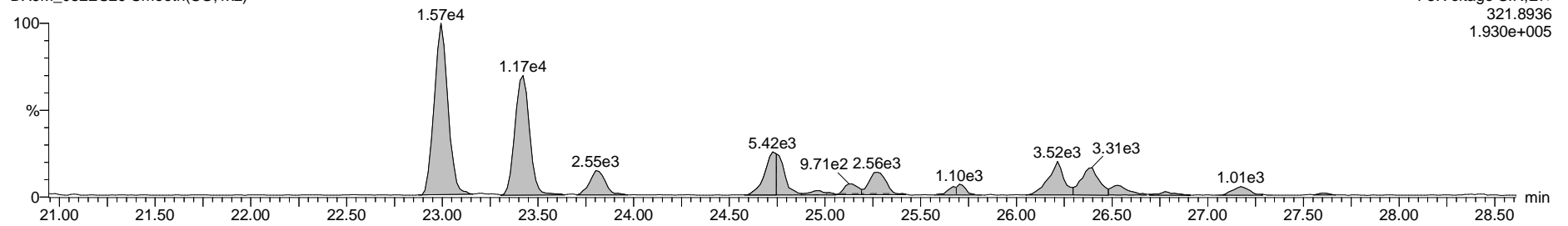
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Total Tetra-Dioxins

DX9M_082ES29 Smooth(SG,1x2)

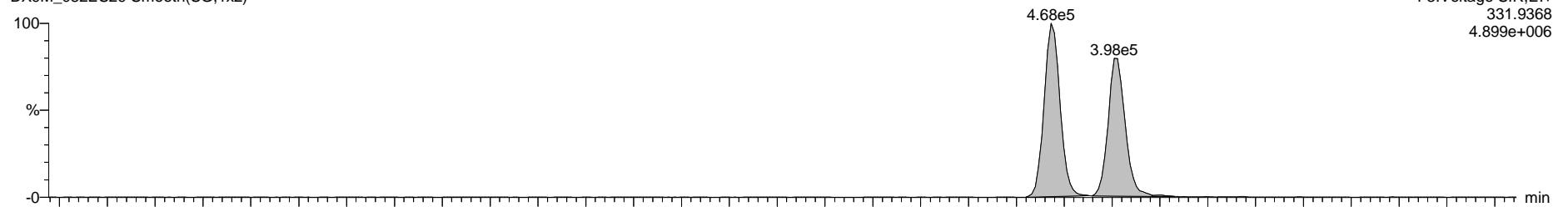


DX9M_082ES29 Smooth(SG,1x2)

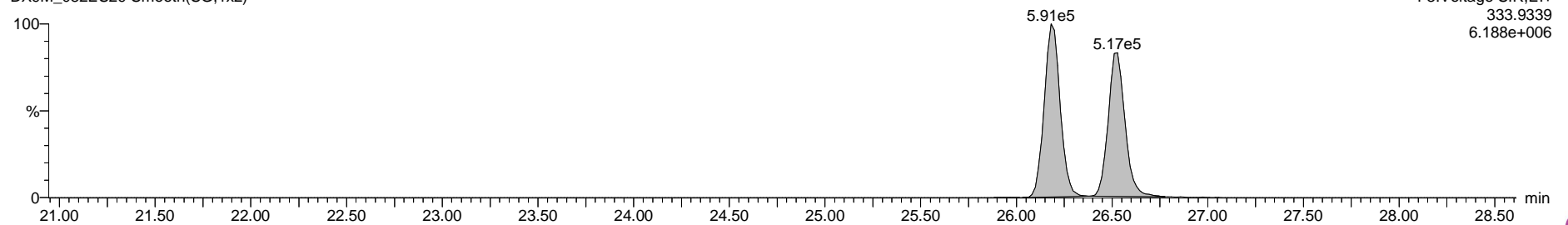


13C-2,3,7,8-TCDD

DX9M_082ES29 Smooth(SG,1x2)



DX9M_082ES29 Smooth(SG,1x2)

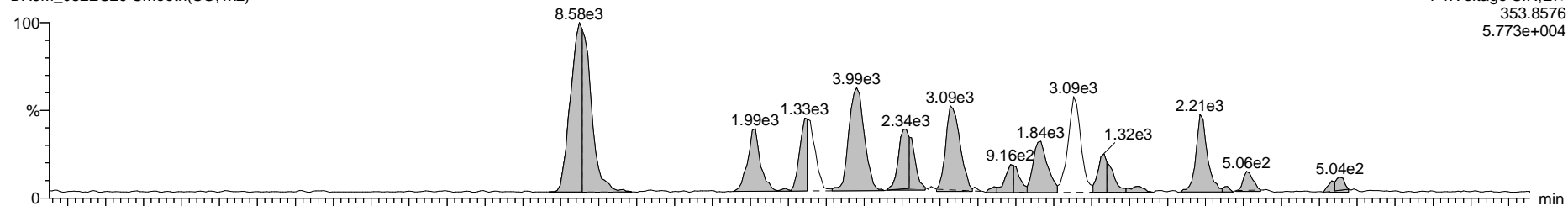


Axys Analytical Services, Ltd.

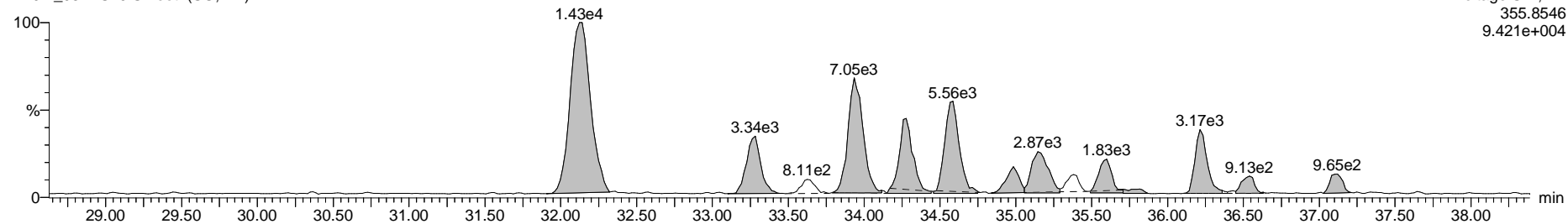
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Total Penta-Dioxins

DX9M_082ES29 Smooth(SG,1x2)

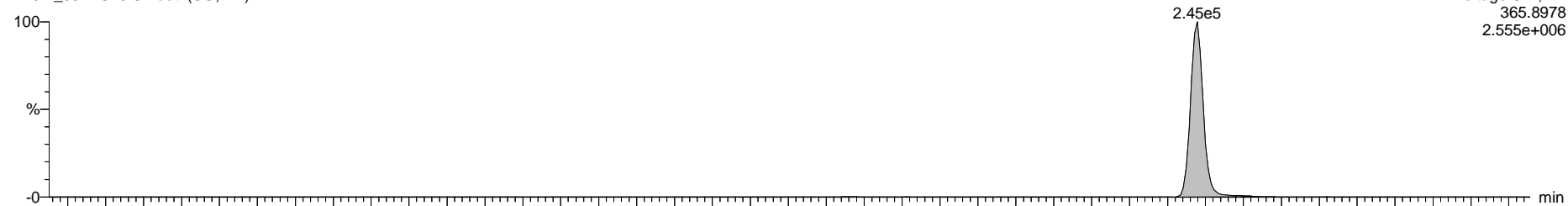


DX9M_082ES29 Smooth(SG,1x2)

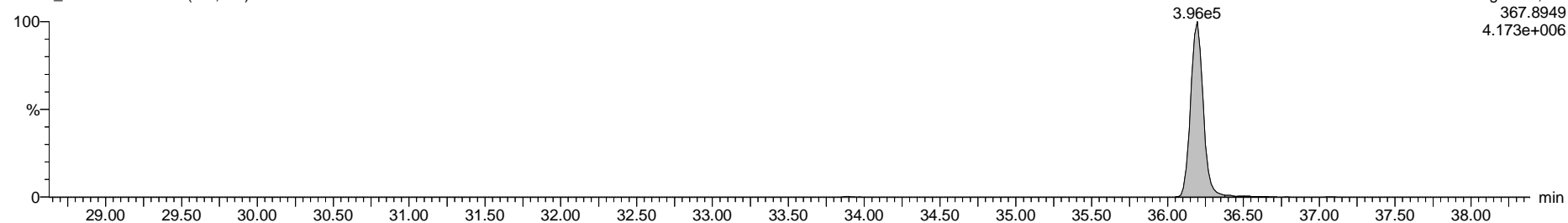


13C-1,2,3,7,8-PeCDD

DX9M_082ES29 Smooth(SG,1x2)



DX9M_082ES29 Smooth(SG,1x2)

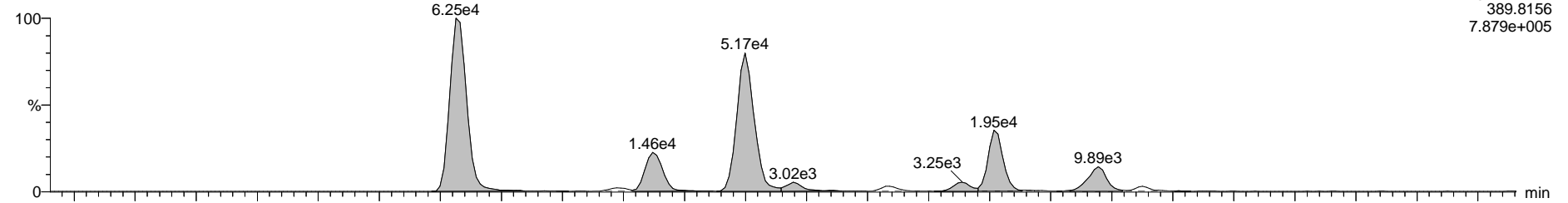


Axys Analytical Services, Ltd.

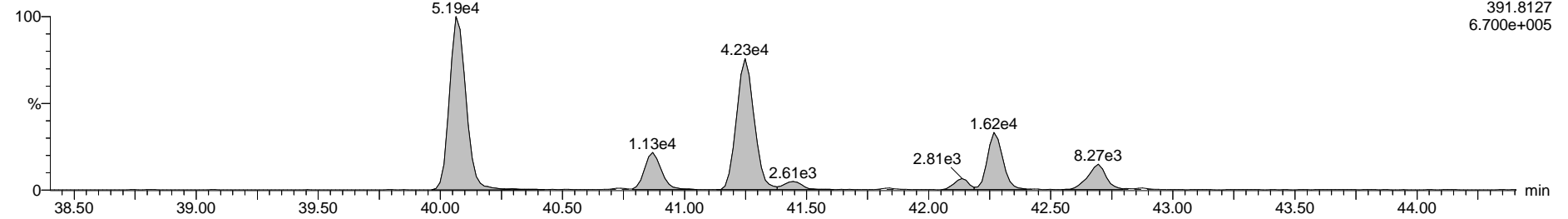
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Total Hexa-Dioxins

DX9M_082ES29 Smooth(SG,1x2)

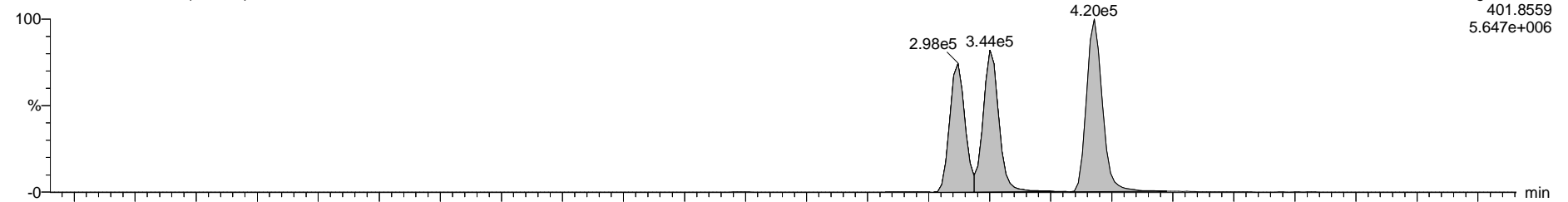


DX9M_082ES29 Smooth(SG,1x2)

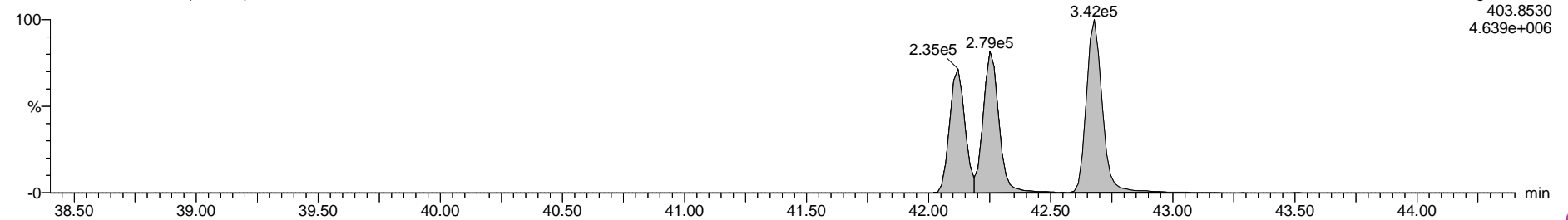


13C-1,2,3,4,7,8-HxCDD

DX9M_082ES29 Smooth(SG,1x2)



DX9M_082ES29 Smooth(SG,1x2)

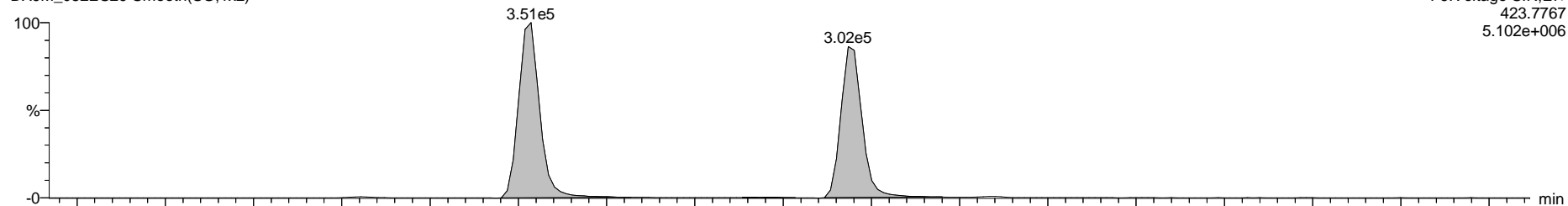


Axys Analytical Services, Ltd.

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

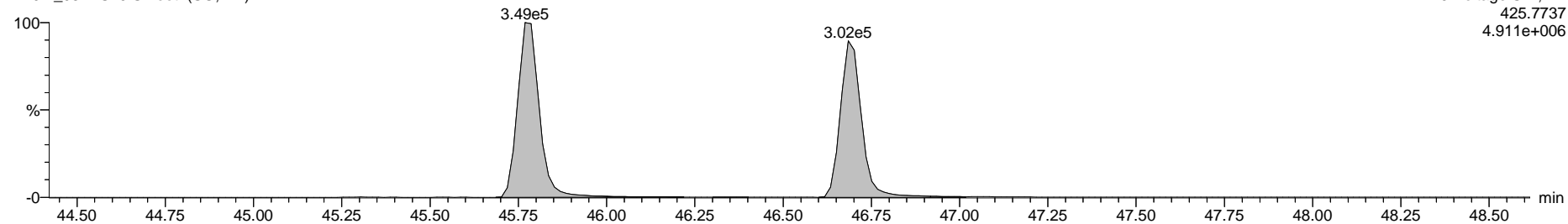
Total Hepta-Dioxins

DX9M_082ES29 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
5.102e+006

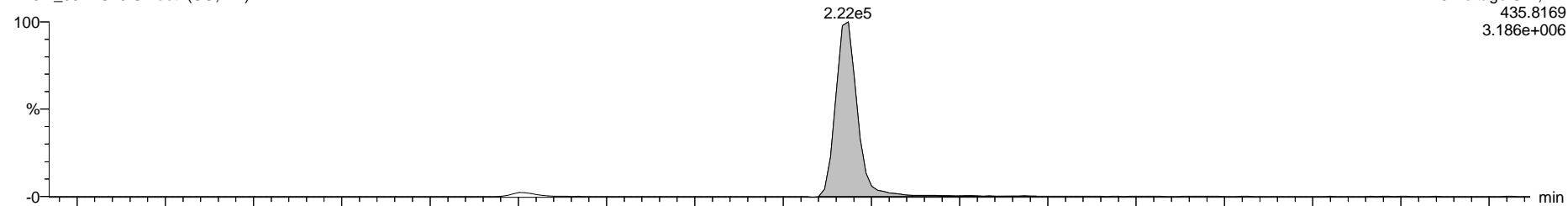
DX9M_082ES29 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
4.911e+006

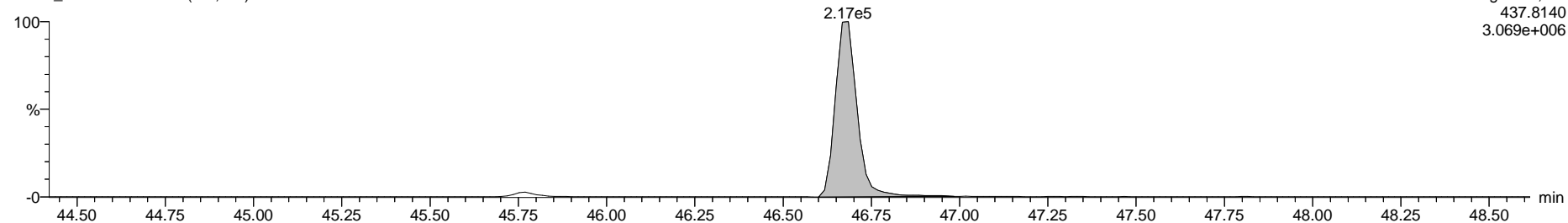
13C-1,2,3,4,6,7,8-HpCDD

DX9M_082ES29 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
3.186e+006

DX9M_082ES29 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
3.069e+006

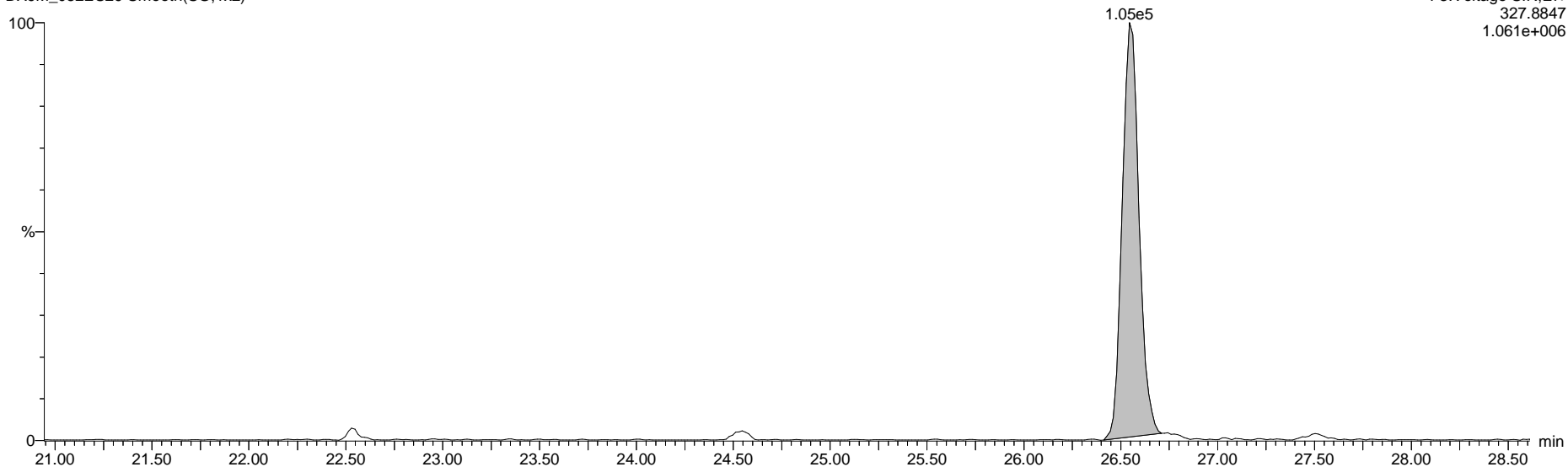


Axys Analytical Services, Ltd.

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

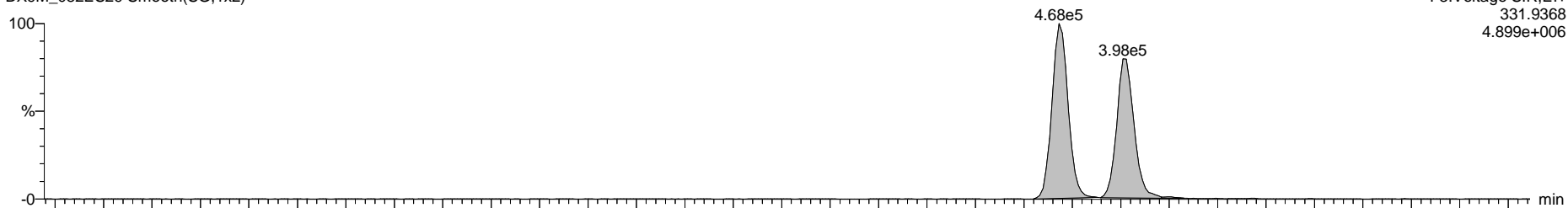
37Cl-2,3,7,8-TCDD

DX9M_082ES29 Smooth(SG,1x2)

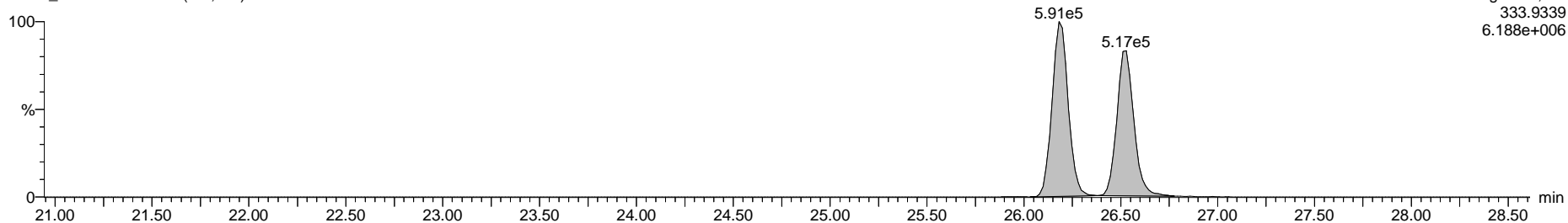


13C-1,2,3,4-TCDD

DX9M_082ES29 Smooth(SG,1x2)



DX9M_082ES29 Smooth(SG,1x2)

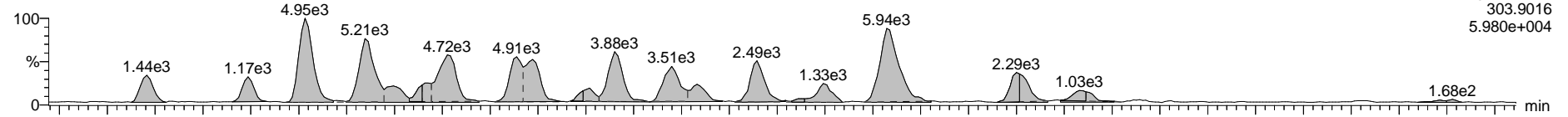


Axys Analytical Services, Ltd.

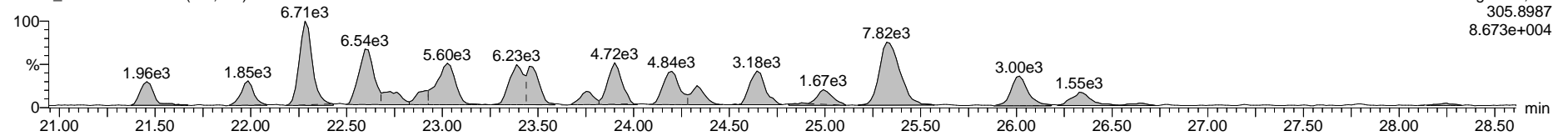
Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_082ES29 Smooth(SG,1x2)

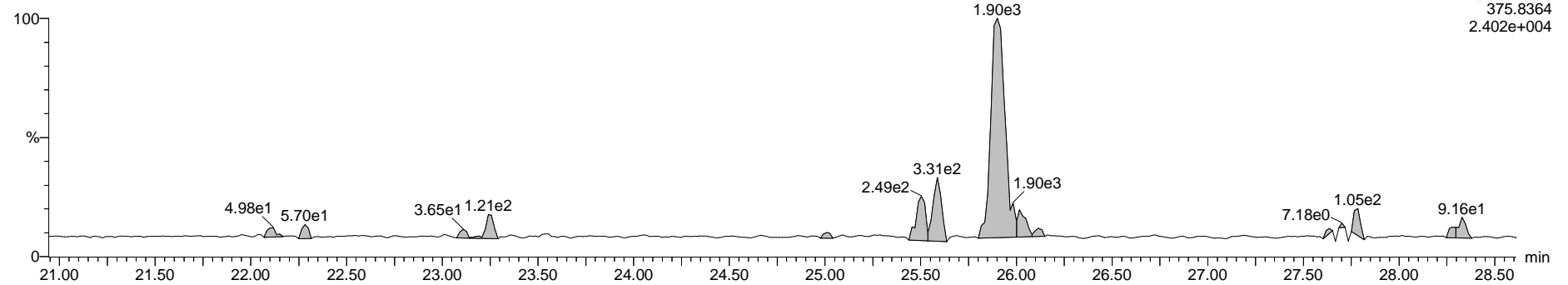


DX9M_082ES29 Smooth(SG,1x2)



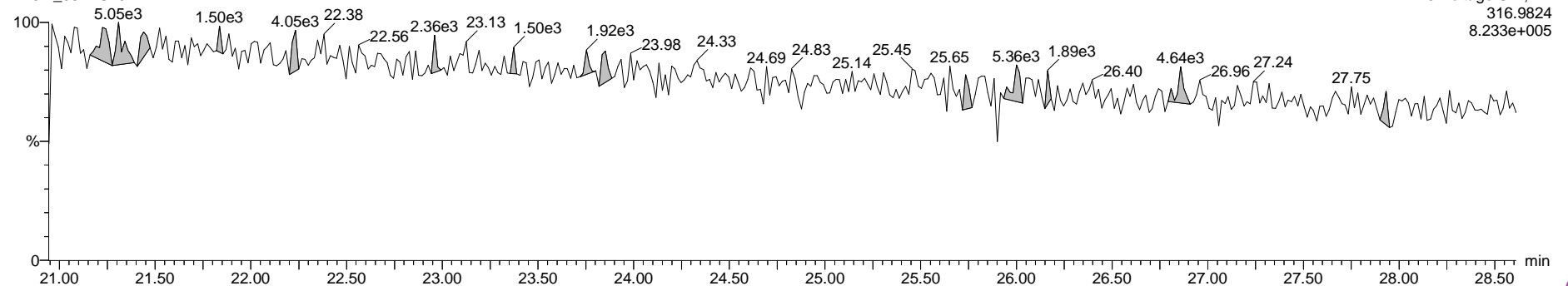
Hexa DPE

DX9M_082ES29 Smooth(SG,1x2)



Tetra Lock

DX9M_082ES29



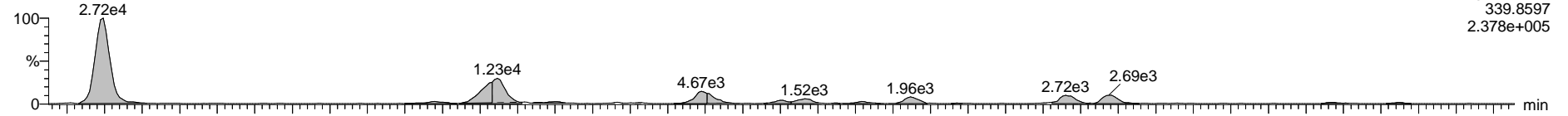
Axys Analytical Services, Ltd.

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

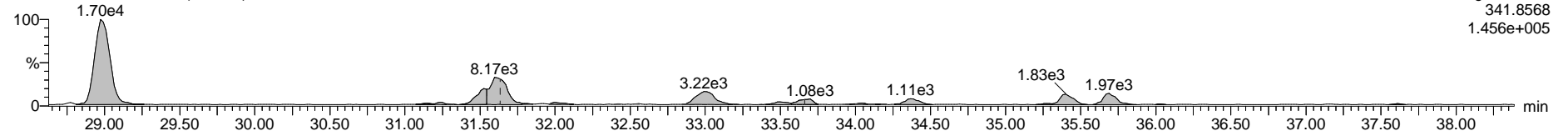
DX9M_082ES29 Smooth(SG,1x2)

F4:Voltage SIR,EI+
339.8597
2.378e+005



DX9M_082ES29 Smooth(SG,1x2)

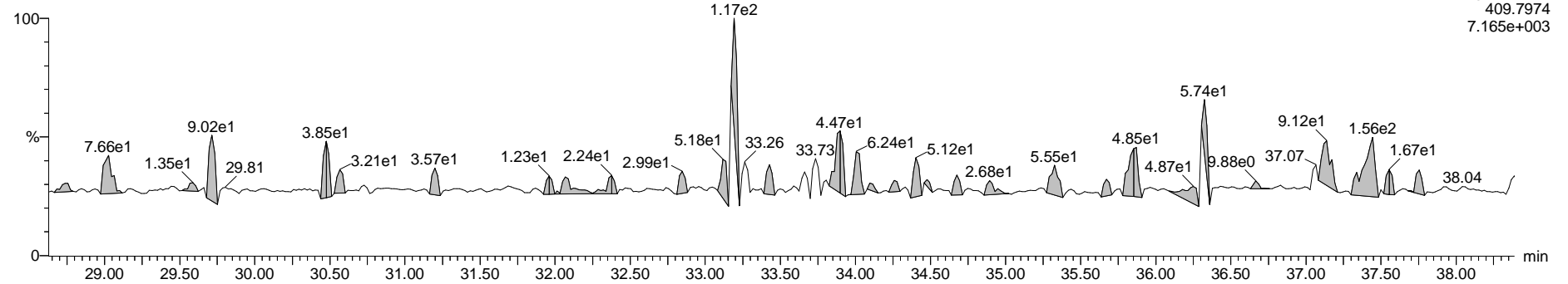
F4:Voltage SIR,EI+
341.8568
1.456e+005



Hepta DPE

DX9M_082ES29 Smooth(SG,1x2)

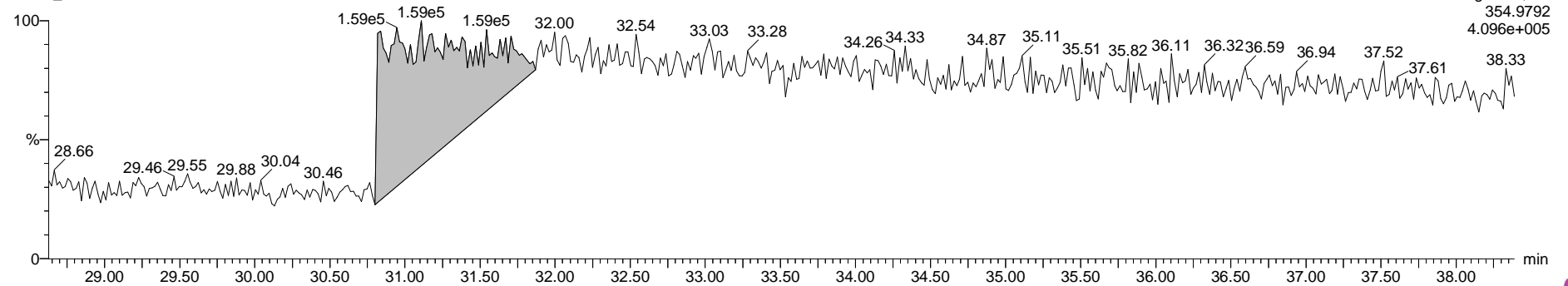
F4:Voltage SIR,EI+
409.7974
7.165e+003



Penta Lock

DX9M_082ES29

F4:Voltage SIR,EI+
354.9792
4.096e+005



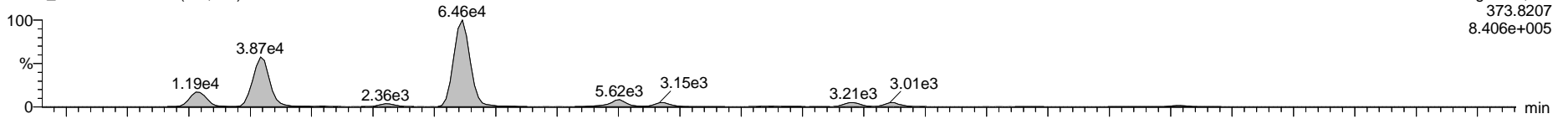
Axys Analytical Services, Ltd.

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

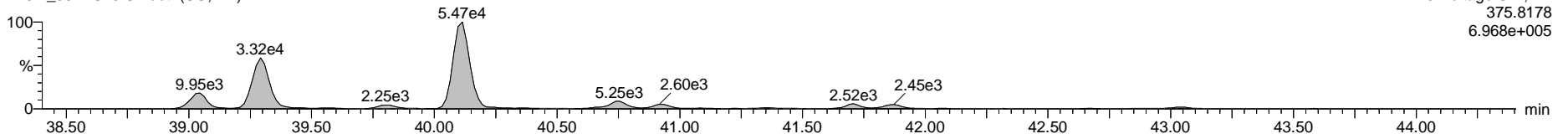
DX9M_082ES29 Smooth(SG,1x2)

F5:Voltage SIR,EI+
373.8207
8.406e+005



DX9M_082ES29 Smooth(SG,1x2)

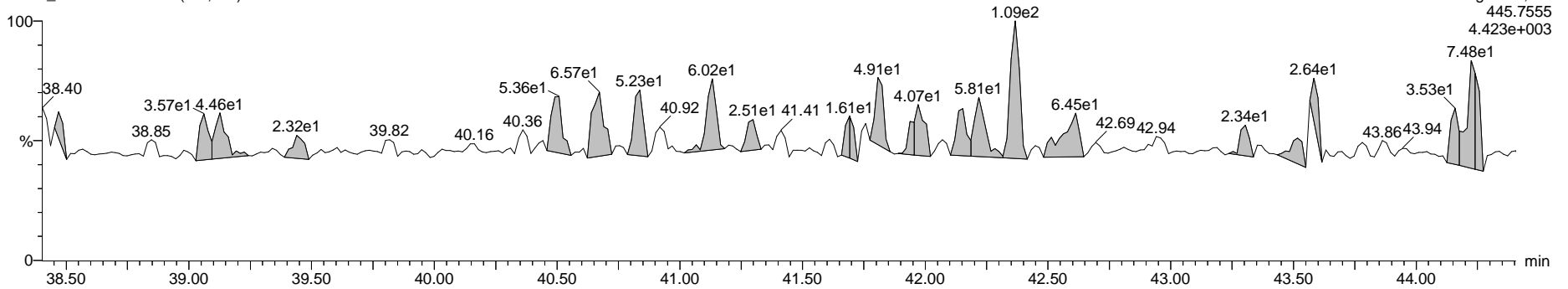
F5:Voltage SIR,EI+
375.8178
6.968e+005



Octa DPE

DX9M_082ES29 Smooth(SG,1x2)

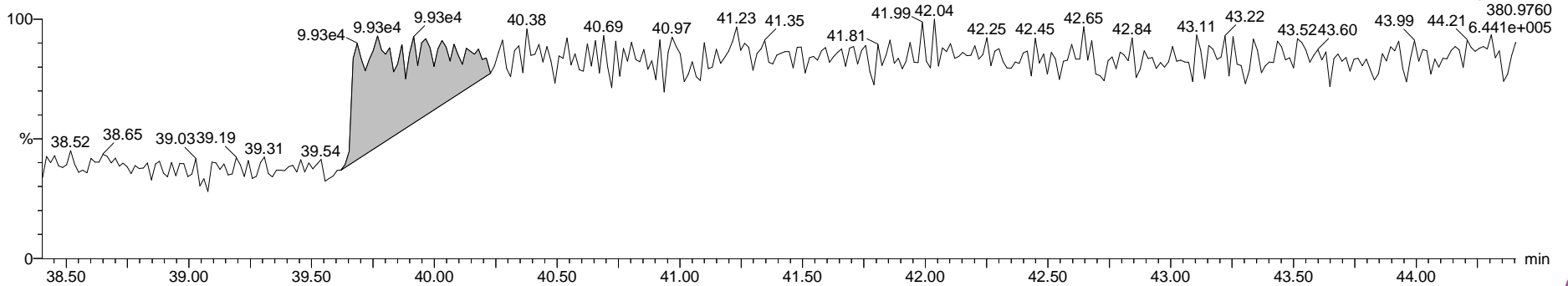
F5:Voltage SIR,EI+
445.7555
4.423e+003



Hexa Lock

DX9M_082ES29

F5:Voltage SIR,EI+
380.9760
6.441e+005

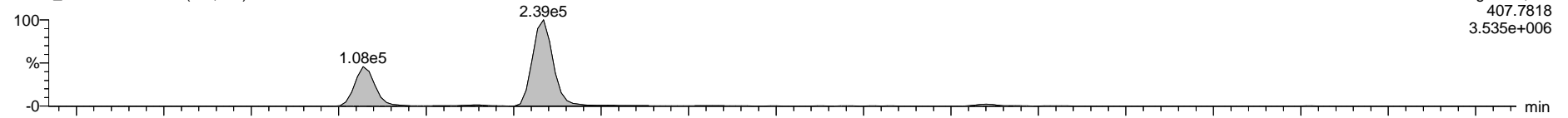


Axys Analytical Services, Ltd.

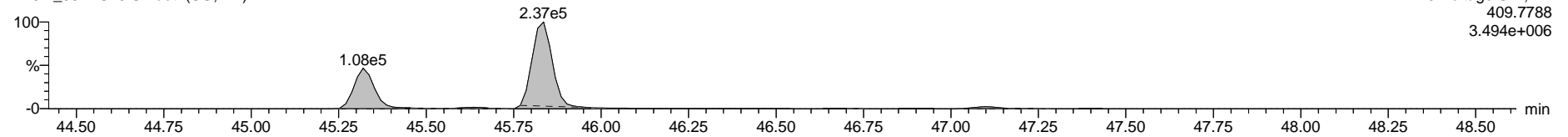
Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

Total Hepta-Furans

DX9M_082ES29 Smooth(SG,1x2)

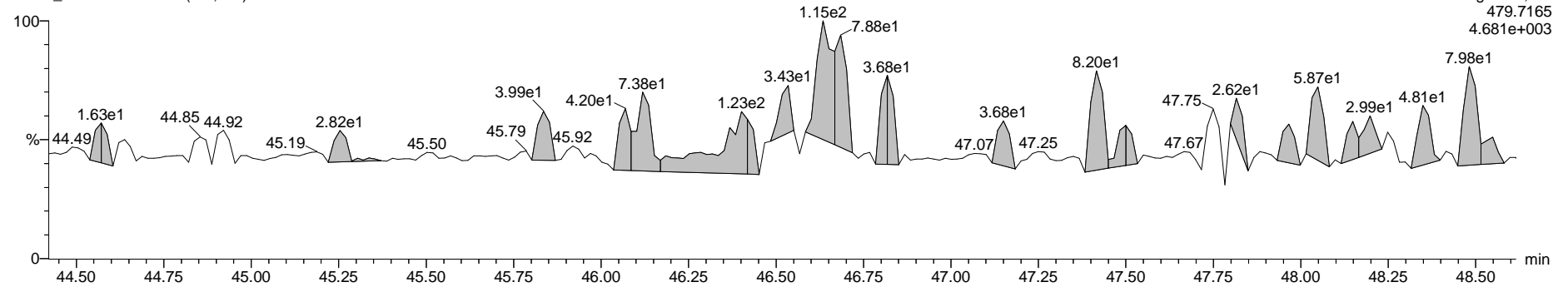


DX9M_082ES29 Smooth(SG,1x2)



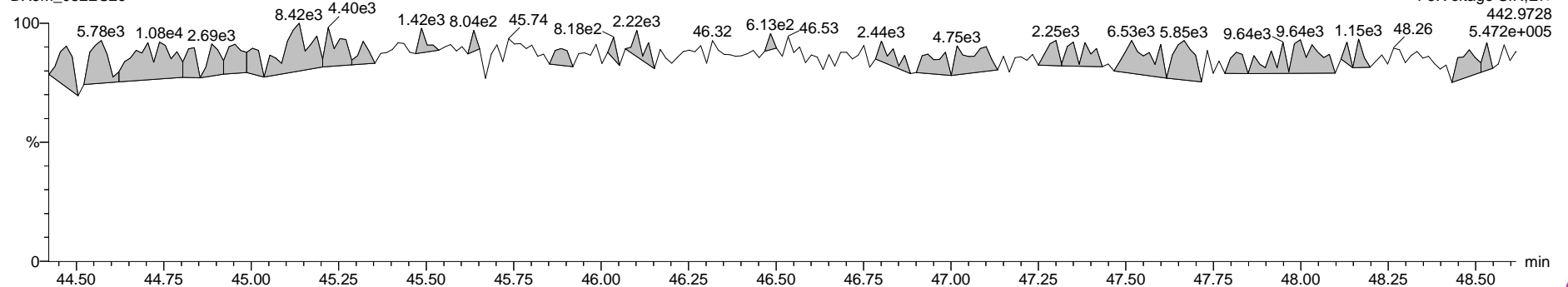
Nona DPE

DX9M_082ES29 Smooth(SG,1x2)



Hepta Lock

DX9M_082ES29

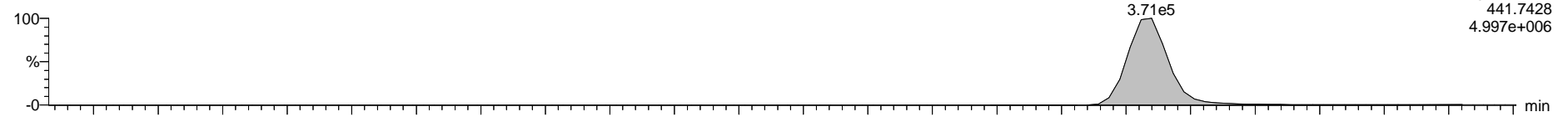


Axys Analytical Services, Ltd.

Name: DX9M_082ES29, Date: 09-Jul-2009, Time: 22:00:14, ID: L12912-2,,, Description: 1,WG29271,1.0/20uL

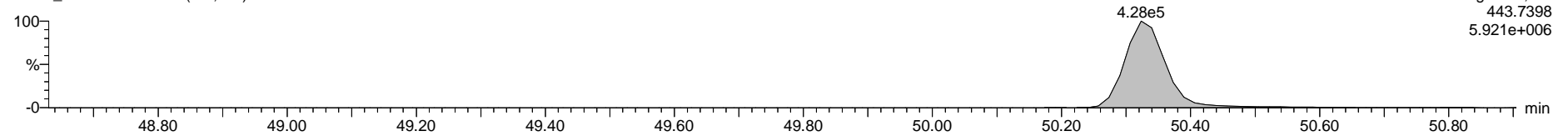
OCDF

DX9M_082ES29 Smooth(SG,1x2)



F7:Voltage SIR,EI+
441.7428
4.997e+006

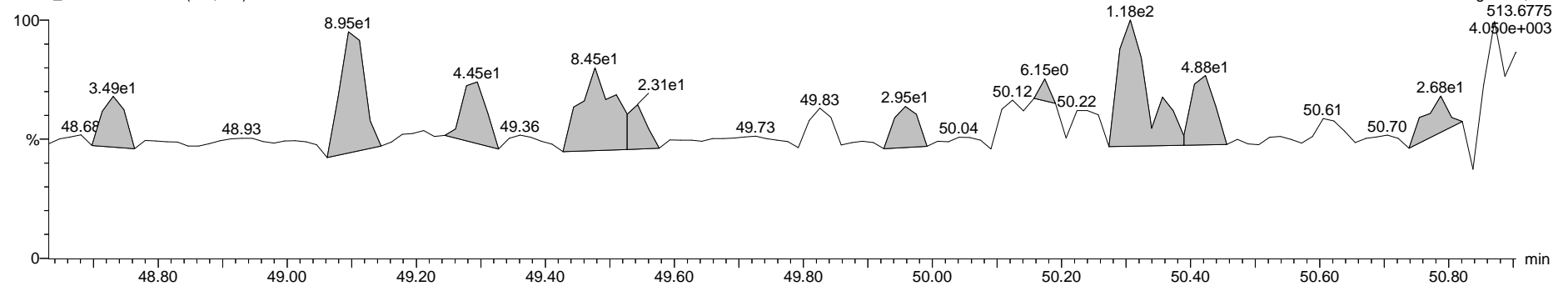
DX9M_082ES29 Smooth(SG,1x2)



F7:Voltage SIR,EI+
443.7398
5.921e+006

Deca DPE

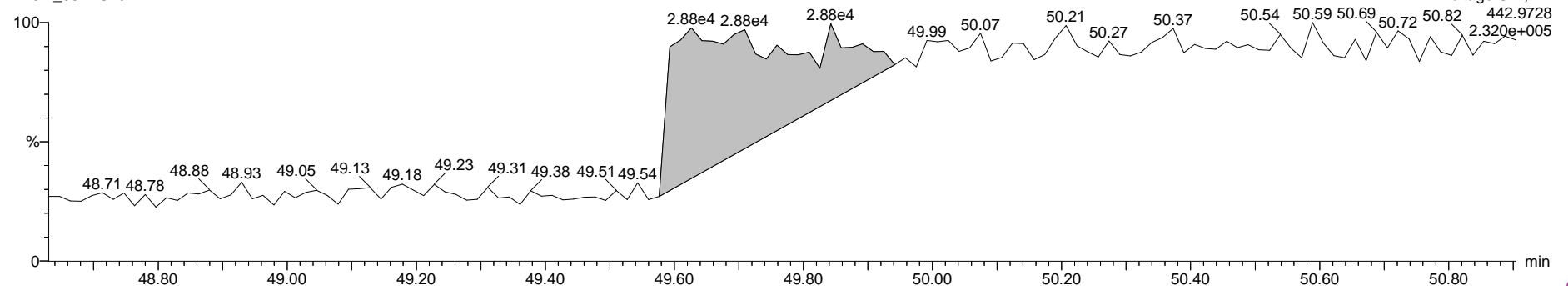
DX9M_082ES29 Smooth(SG,1x2)



F7:Voltage SIR,EI+
513.6775
4.050e+003

Octa Lock

DX9M_082ES29



F7:Voltage SIR,EI+
442.9728
2.320e+005

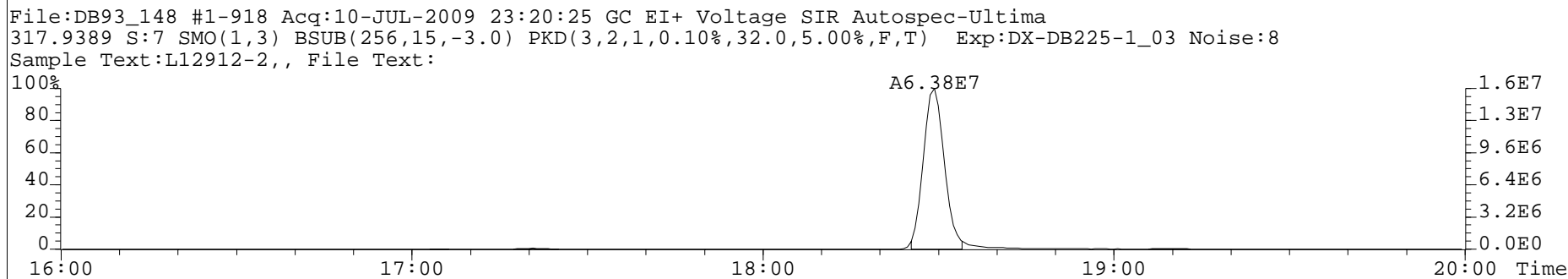
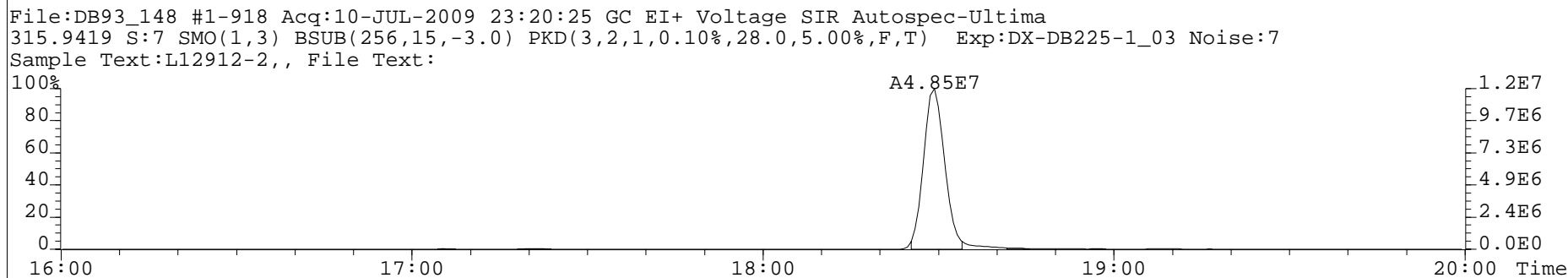
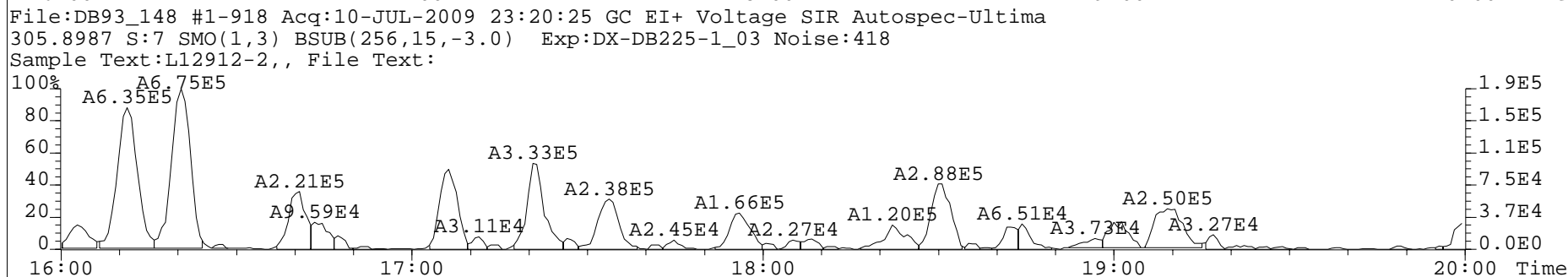
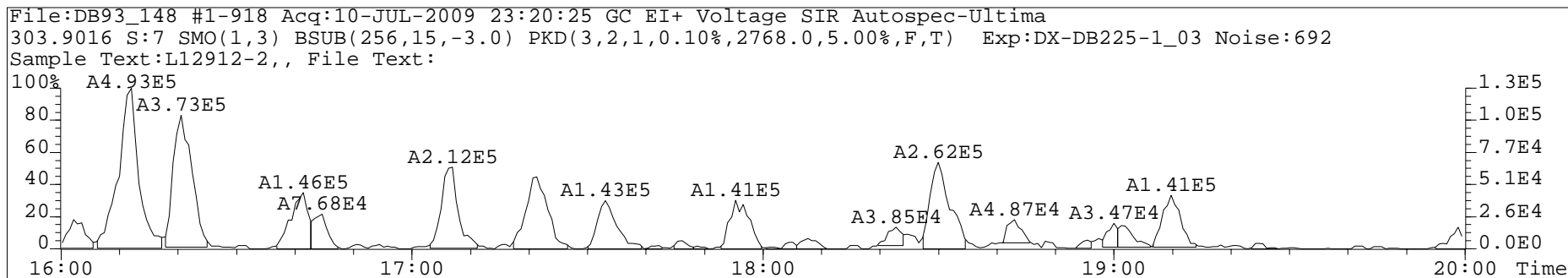


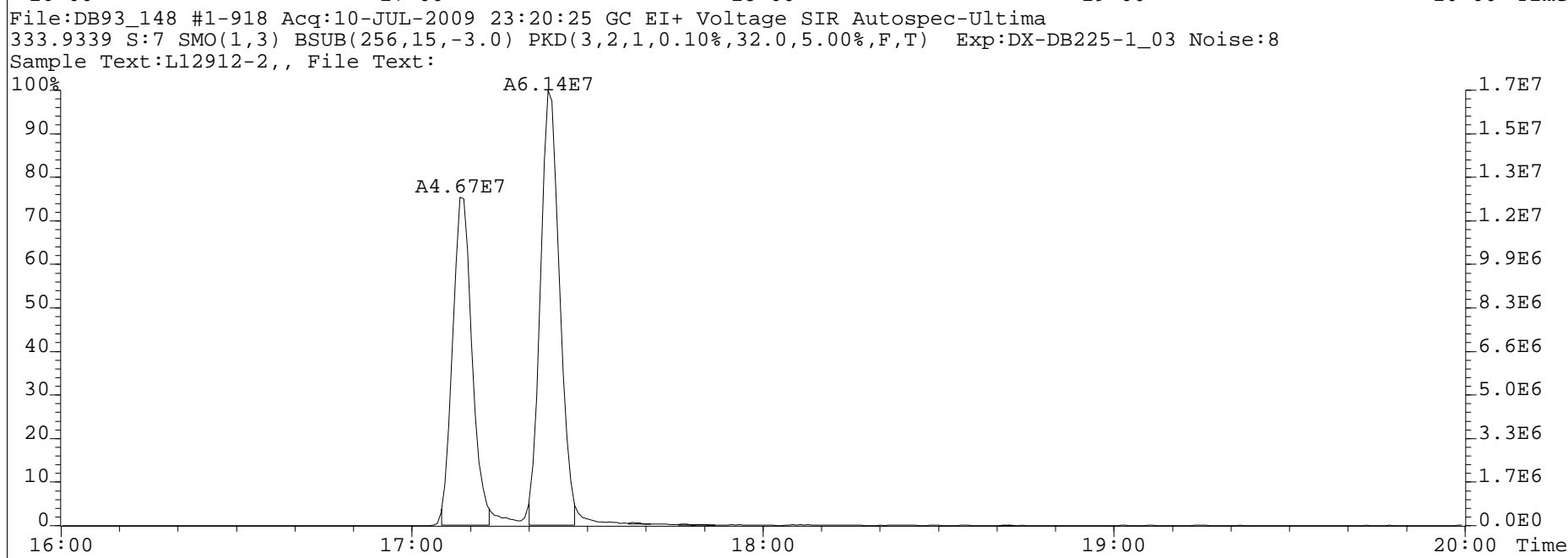
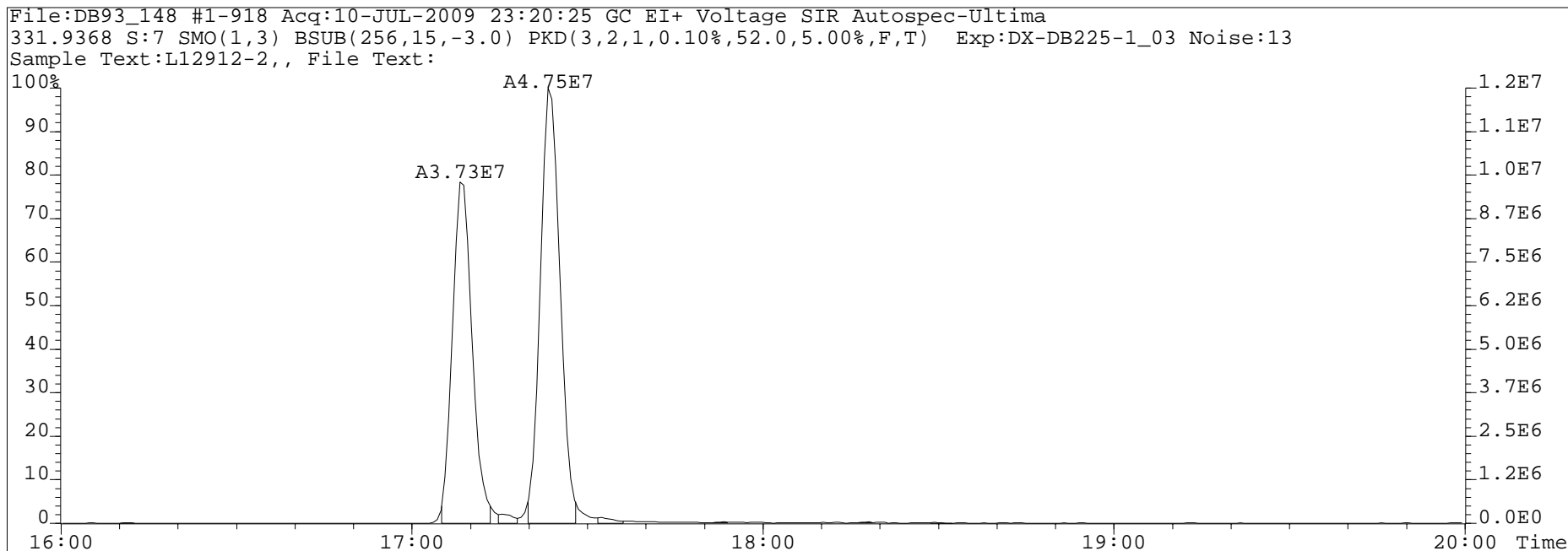
Run #11 Filename DB93_148 S: 7 I: 1 Acquired: 10-JUL-09 23:20:25 Processed: 15-JUL-09 13:58:41
 Run: db93_148-a Analyte: 1613B-db-s4 Cal: db93_146d» Results: db93_148-a Version: V3.6 6-JAN-2000 17:51:42
 Sample text: L12912-2,, Comments: 1,WG29271,2.0/20uL
 sample size: 10.190000 conc units: pg/g total toxicity: 0.12 F1: 1.0000 F2: 1.0000

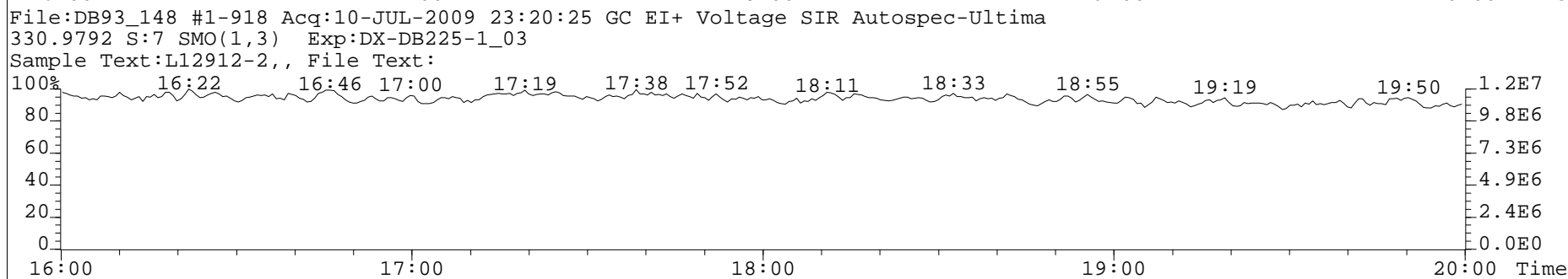
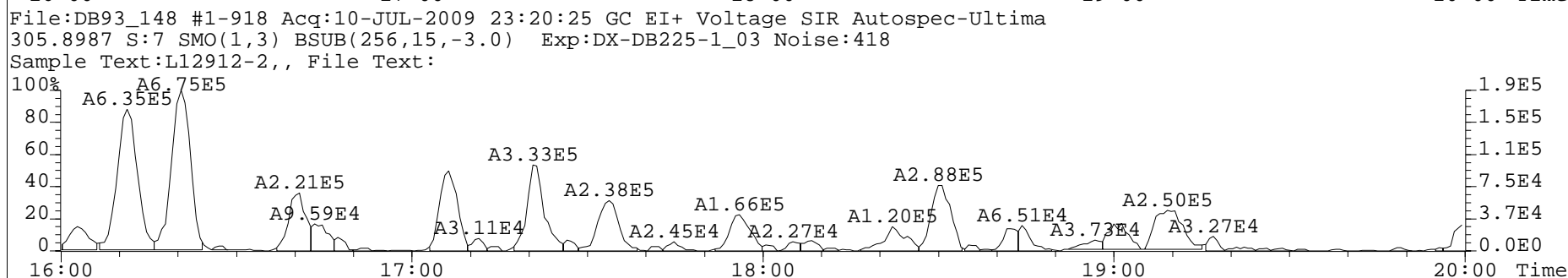
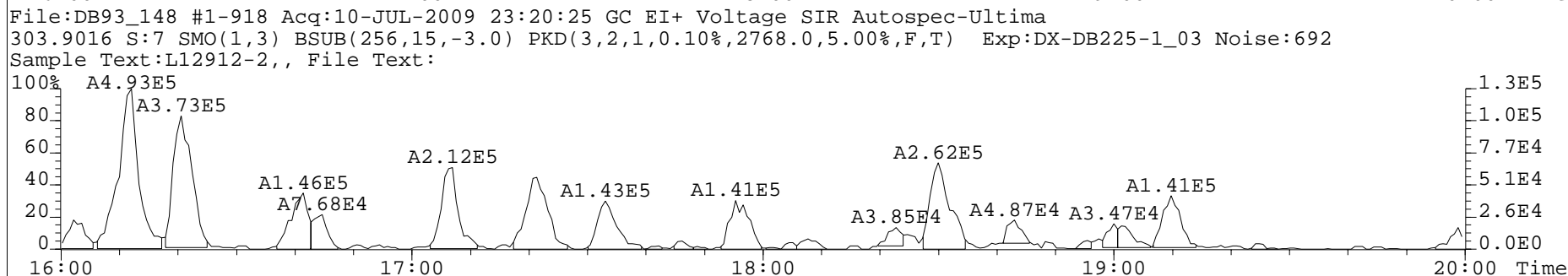
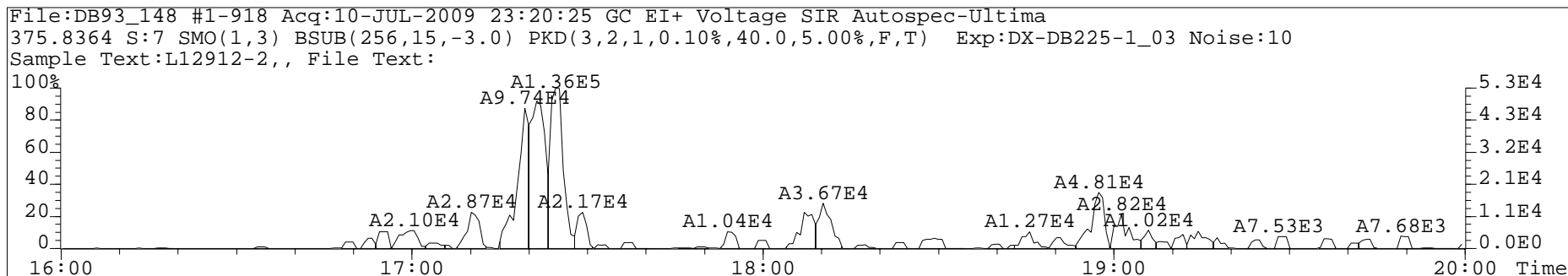
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	5.50e+05	0.91 n	18:31	1.226	0	0.0985	-	Y
2 IS/RT	13C-2,3,7,8-TCDF	1	1.12e+08	0.76 y	18:29	138.834	-	0.0007	70.7	n
3 RS	13C-1,2,3,4-TCDD	1	1.09e+08	0.77 y	17:24	16.247	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

Svd BAA
22-Jul-09

PV BY INT
15-July-09
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Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fails?	RT	pg	DL	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	10.140	1.07e4	0.73	NO	25.34	2.341	0.1542		1.56e3	1.12e3
2	1,2,3,7,8-PeCDF	10.140	1.30e3	1.33	NO	33.68	0.368	0.1757		1.44e3	6.35e2
3	2,3,4,7,8-PeCDF	10.140	2.50e3	1.53	NO	35.40	0.740	0.1615		1.44e3	6.35e2
4	1,2,3,4,7,8-HxCDF	10.140	5.58e3	1.08	NO	40.75	2.001	0.0912		4.32e2	8.42e2
5	1,2,3,6,7,8-HxCDF	10.140	2.82e3	1.17	NO	40.94	0.894	0.0845		4.32e2	8.42e2
6	2,3,4,6,7,8-HxCDF	10.140	3.10e3	1.37	NO	41.87	1.176	0.0965		4.32e2	8.42e2
7	1,2,3,7,8,9-HxCDF	10.140	7.00e2	1.67	YES	48.06	0.300	0.1108		4.32e2	8.42e2
8	1,2,3,4,6,7,8-HpCDF	10.140	9.04e4	0.97	NO	45.32	37.525	0.1234		7.71e2	8.47e2
9	1,2,3,4,7,8,9-HpCDF	10.140	4.41e3	1.07	NO	47.12	2.180	0.1497		7.71e2	8.47e2
10	OCDF	10.140	2.47e5	0.87	NO	50.34	132.123	0.2289		1.50e3	7.74e2
11	2,3,7,8-TCDD	10.140			NO			0.1576		1.25e3	1.16e3
12	1,2,3,7,8-PeCDD	10.140	3.42e3	0.54	NO	36.21	1.147	0.2044		1.57e3	8.11e2
13	1,2,3,4,7,8-HxCDD	10.140	3.65e3	1.14	NO	42.14	1.617	0.1390		1.12e3	6.00e2
14	1,2,3,6,7,8-HxCDD	10.140	1.83e4	1.25	NO	42.28	7.292	0.1410		1.12e3	6.00e2
15	1,2,3,7,8,9-HxCDD	10.140	1.08e4	1.20	NO	42.69	4.611	0.1426		1.12e3	6.00e2
16	1,2,3,4,6,7,8-HpCDD	10.140	4.26e5	1.02	NO	46.70	184.562	0.1907		9.42e2	1.55e3
17	OCDD	10.140	2.85e6	0.88	NO	50.24	1411.606	0.1309		8.21e2	5.83e2
18	13C-2,3,7,8-TCDF	10.140	1.17e6	0.75	NO	25.31	137.529	0.2497	69.7	5.35e3	3.18e3
19	13C-1,2,3,7,8-PeCDF	10.140	8.37e5	1.54	NO	33.63	140.443	0.1854	71.2	2.14e3	2.28e3
20	13C-2,3,4,7,8-PeCDF	10.140	7.87e5	1.53	NO	35.38	135.710	0.1905	68.8	2.14e3	2.28e3
21	13C-1,2,3,4,7,8-HxCDF	10.140	5.73e5	0.51	NO	40.74	128.774	0.2631	65.3	3.75e3	2.21e3
22	13C-1,2,3,6,7,8-HxCDF	10.140	6.81e5	0.51	NO	40.90	131.467	0.2261	66.7	3.75e3	2.21e3
23	13C-2,3,4,6,7,8-HxCDF	10.140	5.98e5	0.50	NO	41.84	125.907	0.2464	63.8	3.75e3	2.21e3
24	13C-1,2,3,7,8,9-HxCDF	10.140	5.76e5	0.51	NO	42.88	129.760	0.2641	65.8	3.75e3	2.21e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.140	4.50e5	0.44	NO	45.30	126.188	0.2552	64.0	2.16e3	2.47e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.140	4.17e5	0.44	NO	47.08	126.810	0.2771	64.3	2.16e3	2.47e3
27	13C-2,3,7,8-TCDD	10.140	9.03e5	0.79	NO	26.53	137.539	0.4805	69.7	2.96e3	9.66e3
28	13C-1,2,3,7,8-PeCDD	10.140	6.70e5	0.62	NO	36.20	157.825	0.3118	80.0	3.92e3	1.38e3
29	13C-1,2,3,4,7,8-HxCDD	10.140	5.45e5	1.26	NO	42.12	127.987	0.1954	64.9	2.03e3	2.20e3
30	13C-1,2,3,6,7,8-HxCDD	10.140	6.54e5	1.22	NO	42.25	131.533	0.1673	66.7	2.03e3	2.20e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.140	4.72e5	1.01	NO	46.68	126.511	0.2081	64.1	1.63e3	2.32e3
32	13C-OCDD	10.140	8.59e5	0.89	NO	50.24	202.661	0.1232	51.4	1.16e3	1.49e3
33	13C-1,2,3,4-TCDD	10.140	1.19e6	0.79	NO	26.20	6.608	0.0176	3.4	2.96e3	9.66e3
34	13C-1,2,3,7,8,9-HxCDD	10.140	8.61e5	1.25	NO	42.68	7.546	0.0073	3.8	2.03e3	2.20e3
35	37Cl-2,3,7,8-TCDD	10.140	1.19e5			26.55	18.996	0.0716	96.3	1.79e3	1.12e3
36	Total Tetra-Furans	10.140				14.03	15.760	0.1542			1.12e3
37	Total Tetra-Dioxins	10.140				10.39	13.702	0.1576			1.16e3
38	Total Penta-Furans	10.140				13.099	13.466	0.1704	0.1757		6.35e2
39	Total Penta-Dioxins	10.140				9.529	14.594	0.2044			8.11e2
40	Total Hexa-Furans	10.140				37.116	37.634	0.0877	0.1108		8.42e2
41	Total Hexa-Dioxins	10.140				65.203	74.997	0.4345	0.1426		6.00e2
42	Total Hepta-Furans	10.140					123.654	0.4293	0.1497		8.47e2
43	Total Hepta-Dioxins	10.140					428.282	0.1907			1.55e3
44	Hexa DPE	1.000	7.17e2			25.92					1.80e3
45	Hepta DPE	1.000	2.47e2			37.45					2.14e3
46	Octa DPE	1.000	3.10e2			41.69					1.08e3
47	Nona DPE	1.000	4.29e2			47.02					2.60e3
48	Deca DPE	1.000	1.52e2			49.69					1.06e3
49	Tetra Lock	1.000	5.28e4			28.28					5.44e5
50	Penta Lock	1.000	3.67e6			29.03					4.30e5
51	Hexa Lock	1.000	3.16e6			39.41					8.64e5
52	Hepta Lock	1.000									4.67e5
53	Octa Lock	1.000	5.40e6			50.42					2.89e5

PV WL 14-JUL-2009
 SVD BPA 23-Jul-09



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	1 st Ratio (A...	Fails?	pg
1	24.18	0.733	NO	1.531
2	23.90	0.751	NO	1.415
3	23.42	0.727	NO	1.818
4	23.03	0.727	NO	1.631
5	22.60	0.692	NO	1.858
6	22.30	0.687	NO	1.588
7	21.99	0.774	NO	0.424
8	21.46	0.702	NO	0.532
9	26.36	0.562	YES	0.329
10	26.02	0.694	NO	0.892
11	25.34	0.733	NO	2.341
12	24.99	1.093	YES	0.528
13	24.65	0.886	YES	0.872

ig

Tetradioxins

	RT	1 st Ratio (A...	Fails?	pg
1	25.29	1.696	YES	1.387
2	24.73	0.783	NO	1.630
3	23.82	0.703	NO	0.716
4	23.42	0.750	NO	2.968
5	22.99	0.711	NO	5.076
6	26.40	0.570	YES	0.993
7	26.21	0.619	YES	0.933

ig

Pentafurans

	RT	1 st Ratio (A...	Fails?	pg
1	33.01	1.487	NO	1.267
2	31.62	1.329	NO	3.298
3	28.99	1.521	NO	6.541
4	35.71	1.339	NO	0.750
5	35.40	1.531	NO	0.740
6	34.39	1.608	NO	0.503
7	33.68	1.230	YES	0.368

ig

Pentadioxins

	RT	1 st Ratio (A...	Fails?	pg
1	32.12	0.627	NO	4.118
2	36.52	0.308	YES	0.325
3	36.21	0.536	NO	1.147
4	35.60	0.828	YES	0.643
5	35.15	0.508	YES	0.955
6	34.60	0.690	NO	1.843
7	34.28	0.731	YES	1.518
8	33.95	0.566	NO	2.421
9	33.30	0.490	YES	0.982
10	35.00	0.513	YES	0.551

ig

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Hexafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	43.06	1.665	YES	0.300
2	41.87	1.367	NO	1.176
3	41.71	1.230	NO	0.729
4	41.43	7.048	YES	0.063
5	40.94	1.174	NO	0.894
6	40.75	1.076	NO	2.001
7	40.11	1.191	NO	16.118
8	39.82	1.162	NO	0.549
9	39.57	1.491	YES	0.155
10	39.29	1.236	NO	12.164
11	39.03	1.200	NO	3.485

cg

Hexadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	42.69	1.203	NO	4.611
2	42.28	1.250	NO	7.292
3	42.14	1.144	NO	1.617
4	41.46	1.349	NO	1.574
5	41.25	1.231	NO	24.381
6	40.89	1.429	YES	6.705
7	40.08	1.216	NO	25.728

cg

Heptafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	47.12	1.070	NO	2.180
2	45.84	1.004	NO	82.569
3	45.65	1.018	NO	1.380
4	45.32	0.971	NO	37.525

cg

Heptadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	45.79	1.021	NO	243.720
2	46.70	1.017	NO	184.562

cg

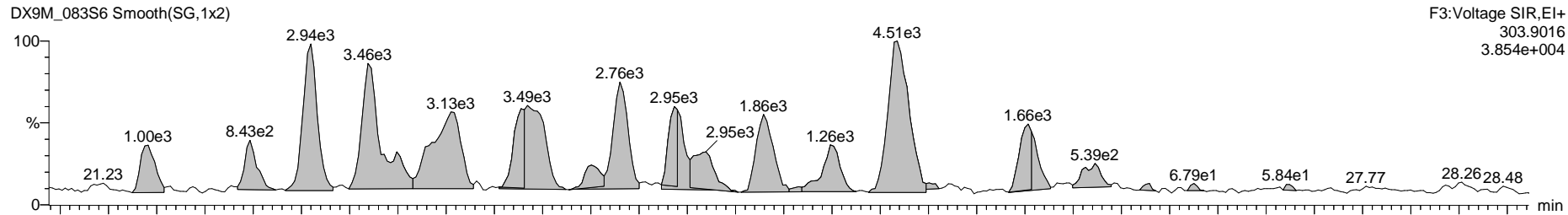
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

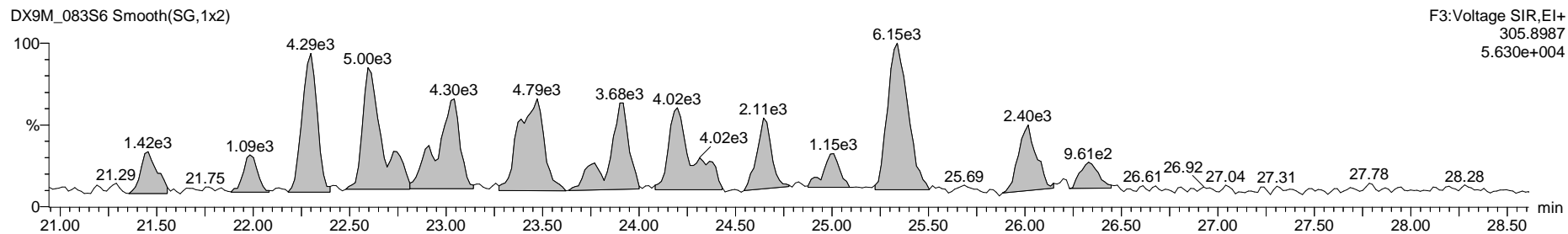
Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,l,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S6 Smooth(SG,1x2)

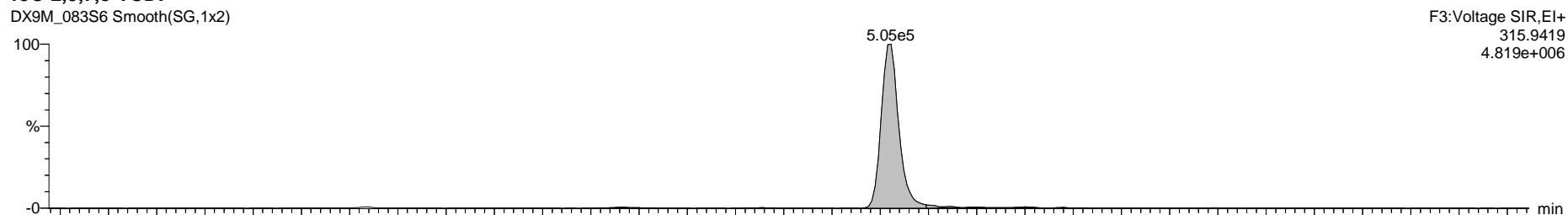


DX9M_083S6 Smooth(SG,1x2)

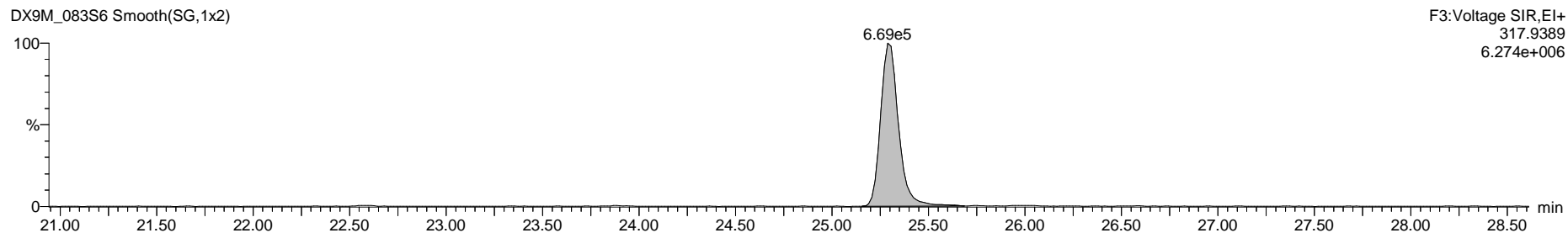


13C-2,3,7,8-TCDF

DX9M_083S6 Smooth(SG,1x2)



DX9M_083S6 Smooth(SG,1x2)

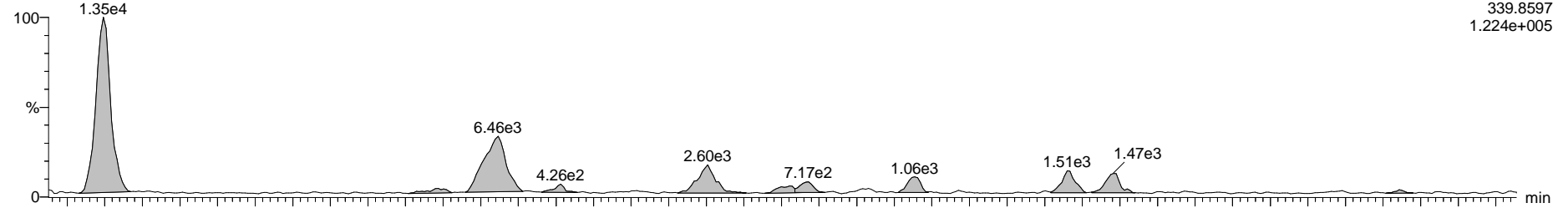


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

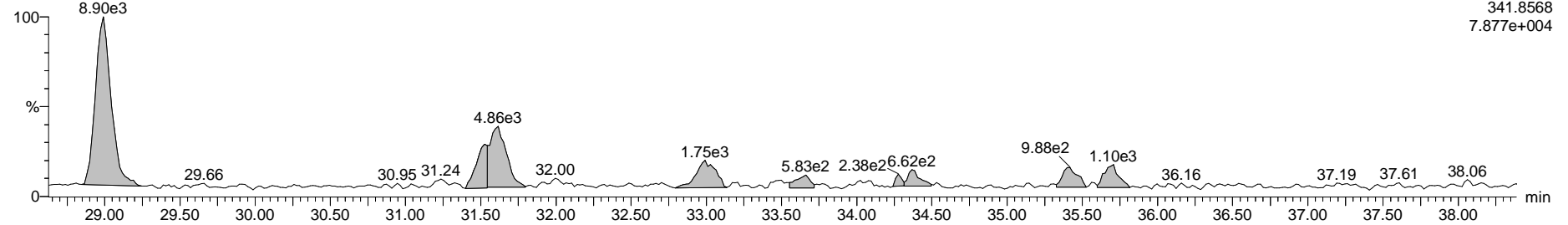
Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S6 Smooth(SG,1x2)

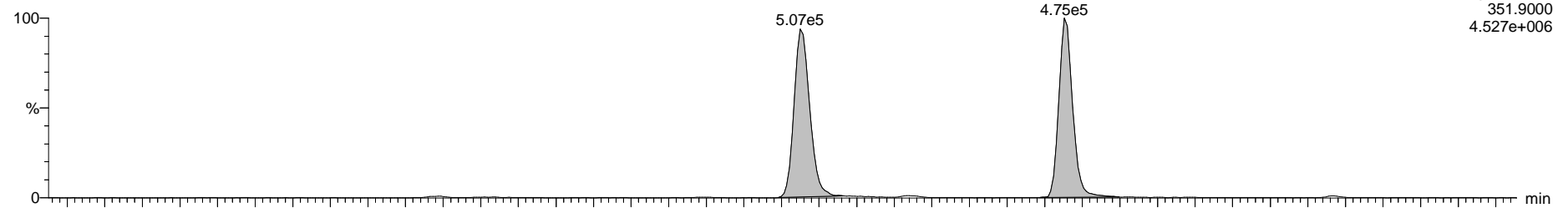


DX9M_083S6 Smooth(SG,1x2)

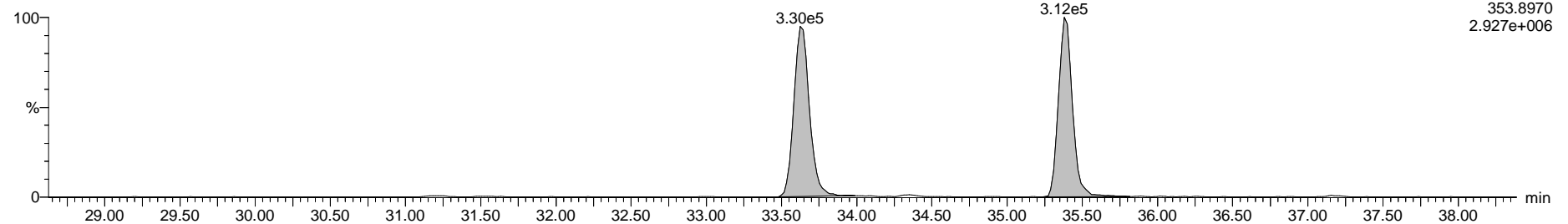


13C-1,2,3,7,8-PeCDF

DX9M_083S6 Smooth(SG,1x2)



DX9M_083S6 Smooth(SG,1x2)



PV WL 14-JUL-2009

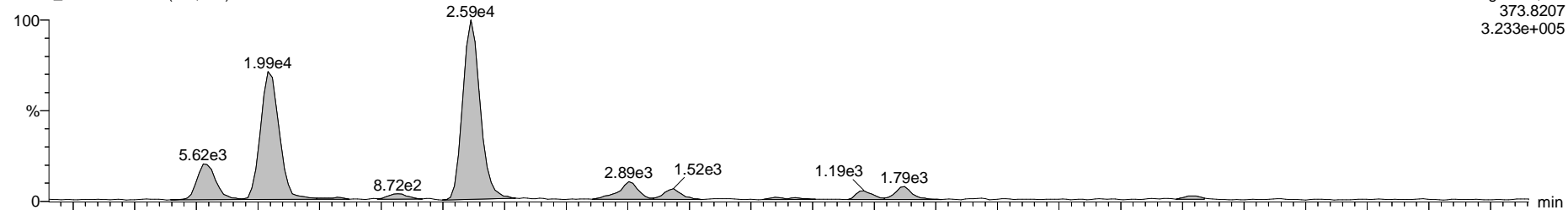


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

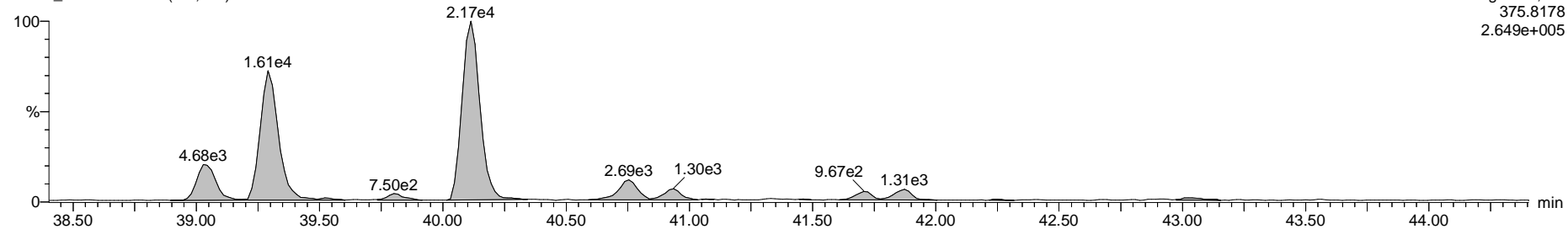
Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S6 Smooth(SG,1x2)

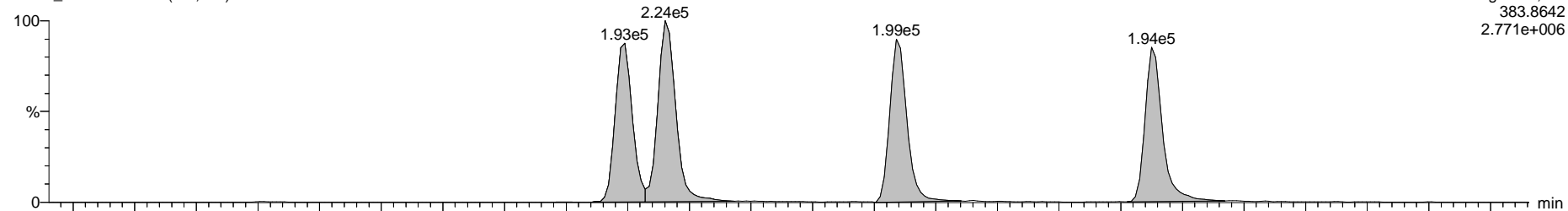


DX9M_083S6 Smooth(SG,1x2)

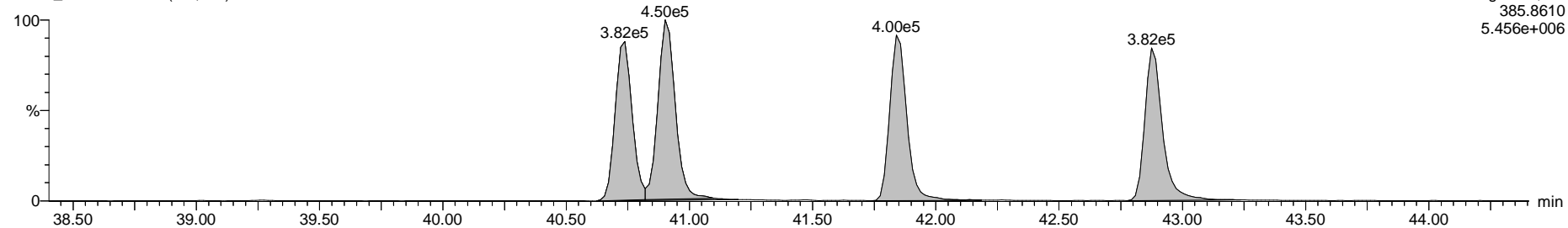


13C-1,2,3,4,7,8-HxCDF

DX9M_083S6 Smooth(SG,1x2)



DX9M_083S6 Smooth(SG,1x2)



PV WL 14-JUL-2009

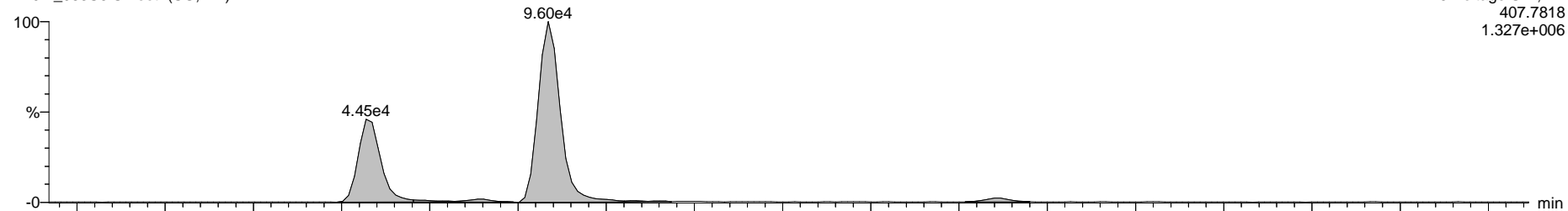


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

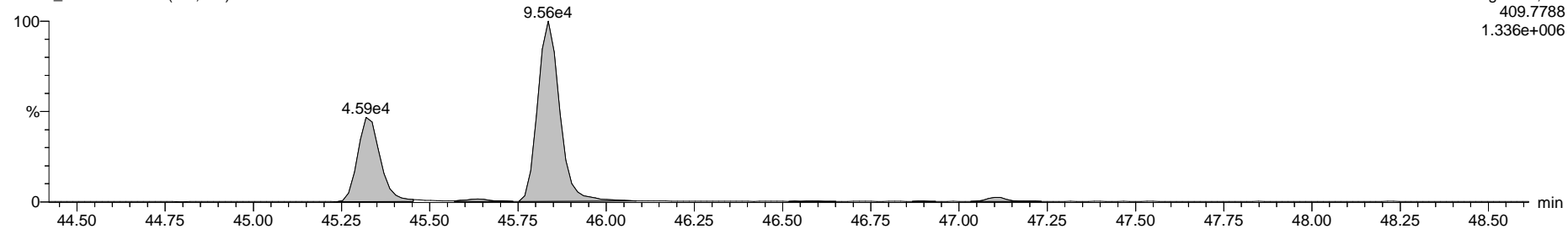
Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Total Hepta-Furans

DX9M_083S6 Smooth(SG,1x2)

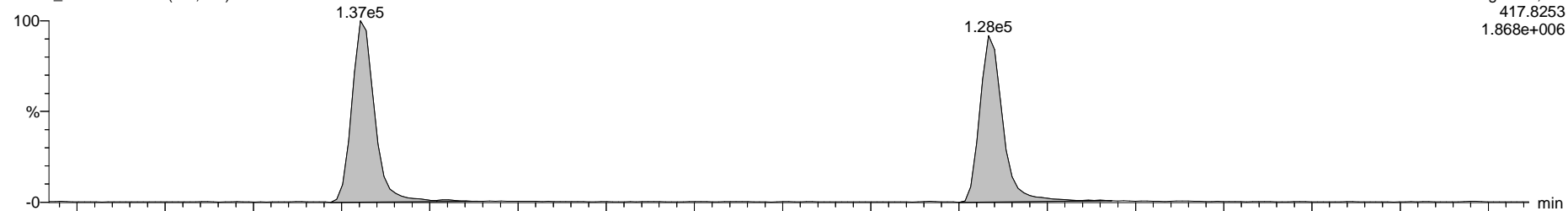


DX9M_083S6 Smooth(SG,1x2)

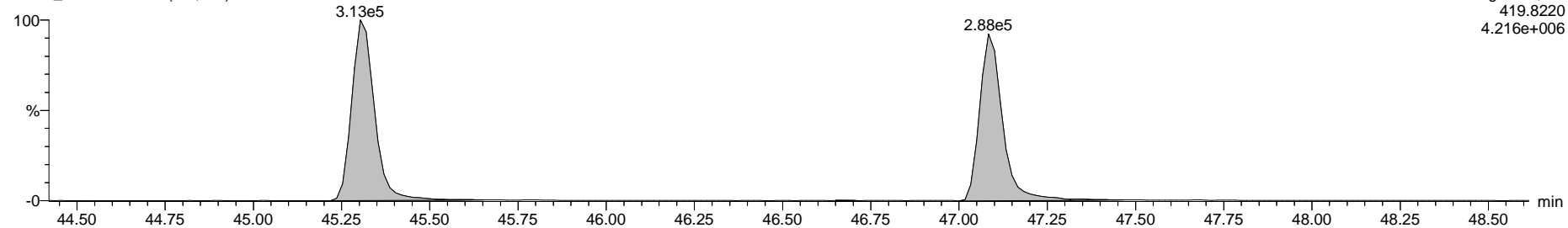


13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S6 Smooth(SG,1x2)



DX9M_083S6 Smooth(SG,1x2)



PV WL 14-JUL-2009

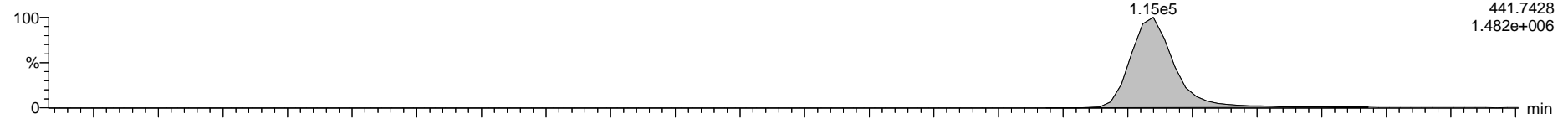


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

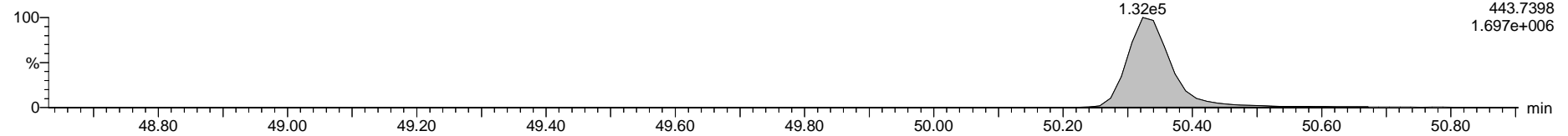
Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S6 Smooth(SG,1x2)

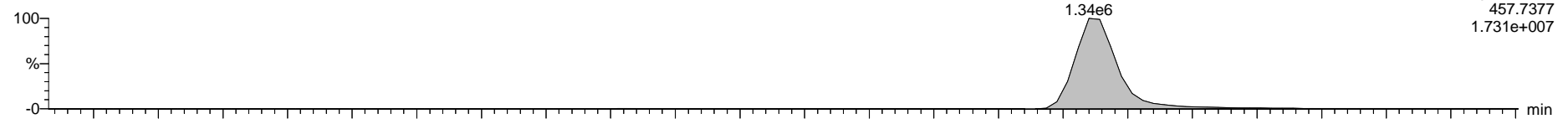


DX9M_083S6 Smooth(SG,1x2)

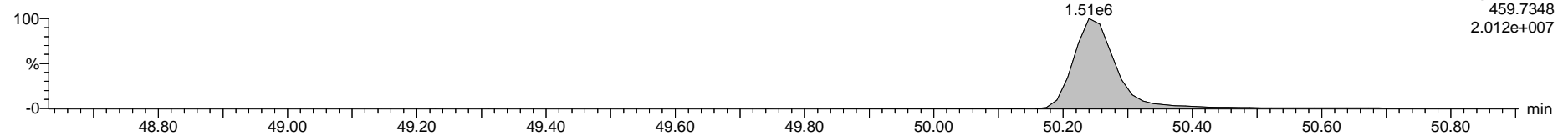


OCDD

DX9M_083S6 Smooth(SG,1x2)

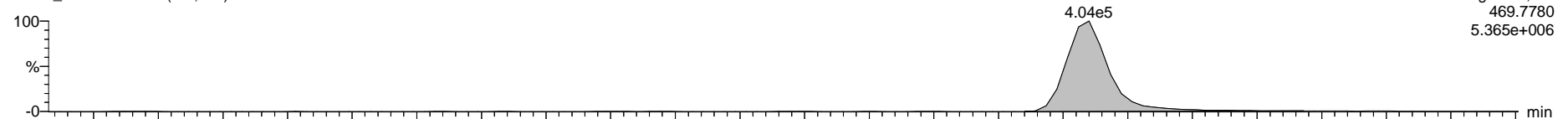


DX9M_083S6 Smooth(SG,1x2)

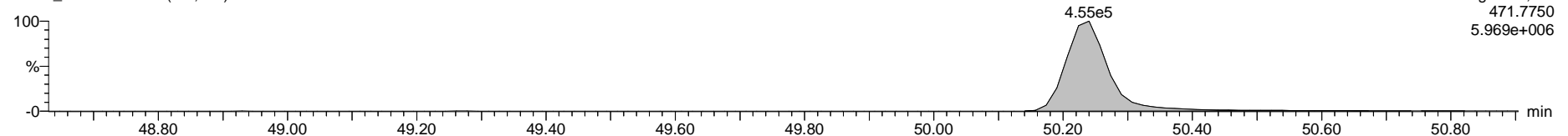


13C-OCDD

DX9M_083S6 Smooth(SG,1x2)



DX9M_083S6 Smooth(SG,1x2)



PV WL 14-JUL-2009

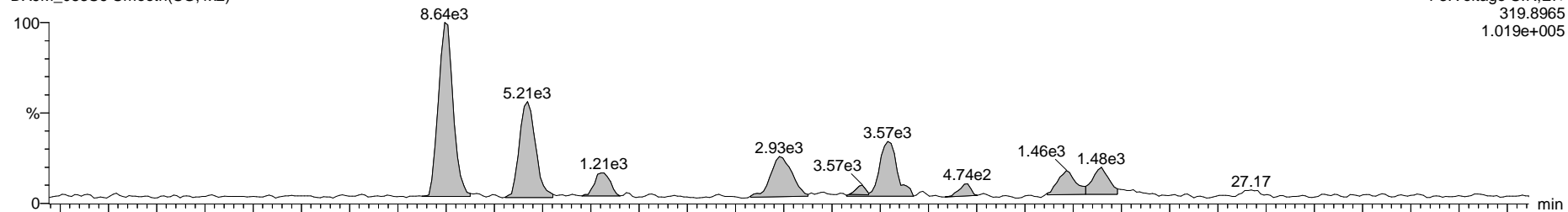


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

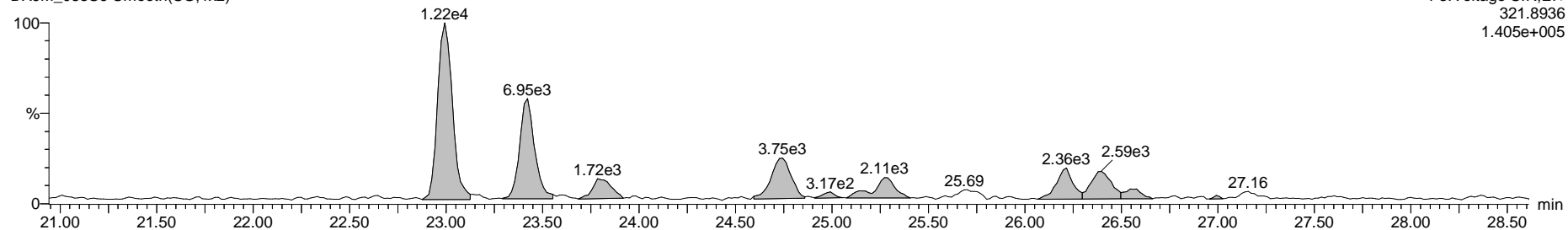
Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_083S6 Smooth(SG,1x2)

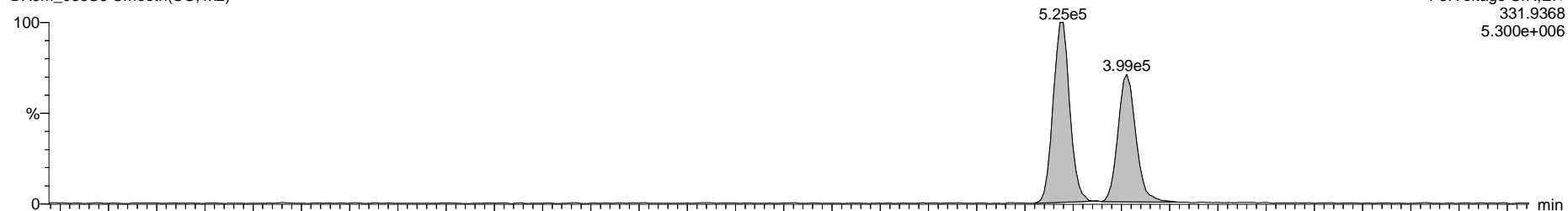


DX9M_083S6 Smooth(SG,1x2)

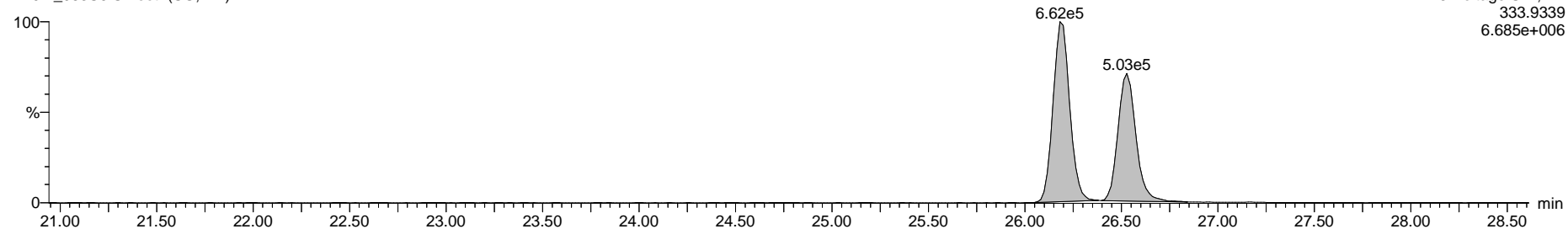


13C-2,3,7,8-TCDD

DX9M_083S6 Smooth(SG,1x2)



DX9M_083S6 Smooth(SG,1x2)



PV WL 14-JUL-2009

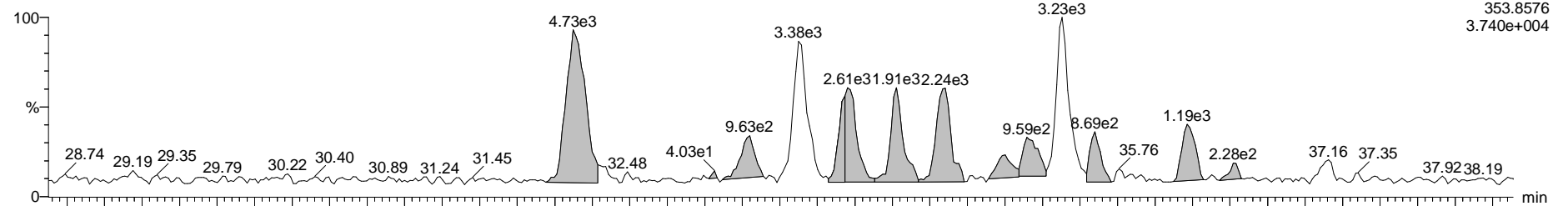


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

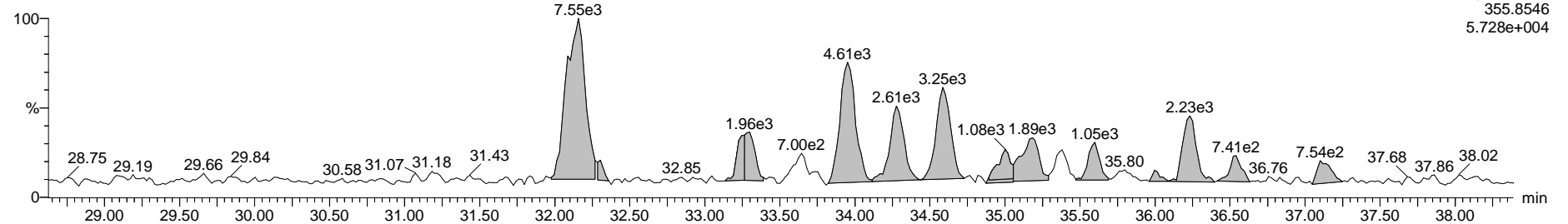
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Total Penta-Dioxins

DX9M_083S6 Smooth(SG,1x2)

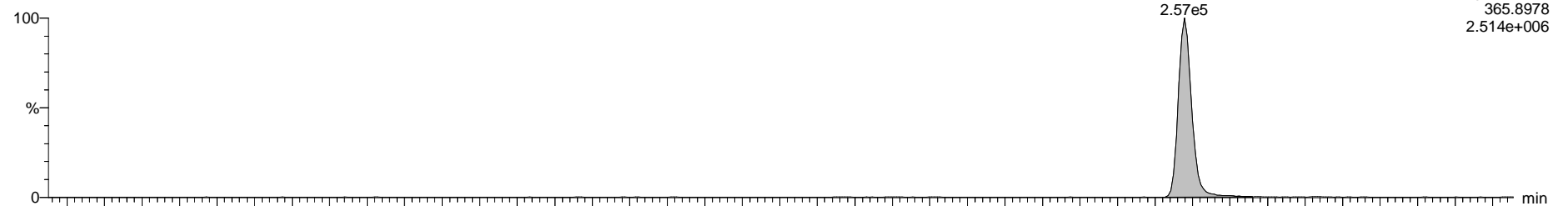


DX9M_083S6 Smooth(SG,1x2)

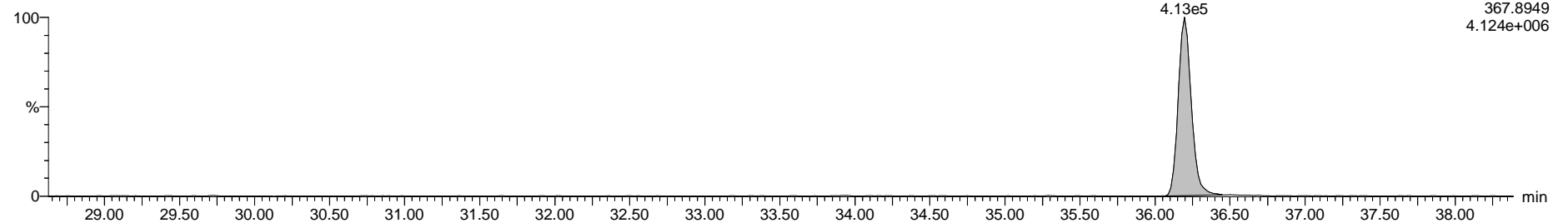


13C-1,2,3,7,8-PeCDD

DX9M_083S6 Smooth(SG,1x2)



DX9M_083S6 Smooth(SG,1x2)

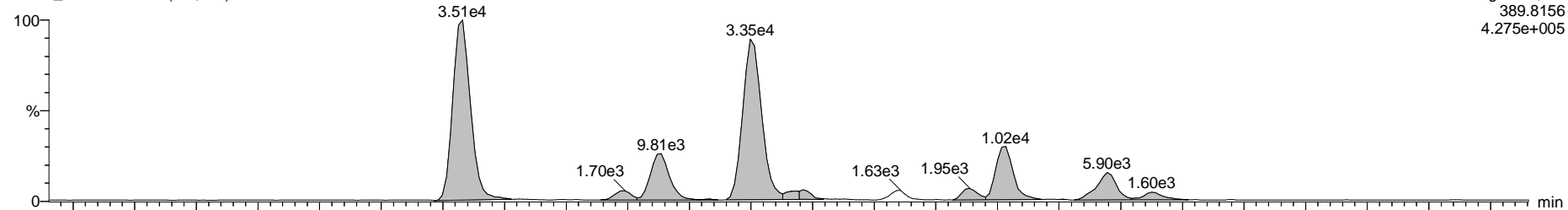


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

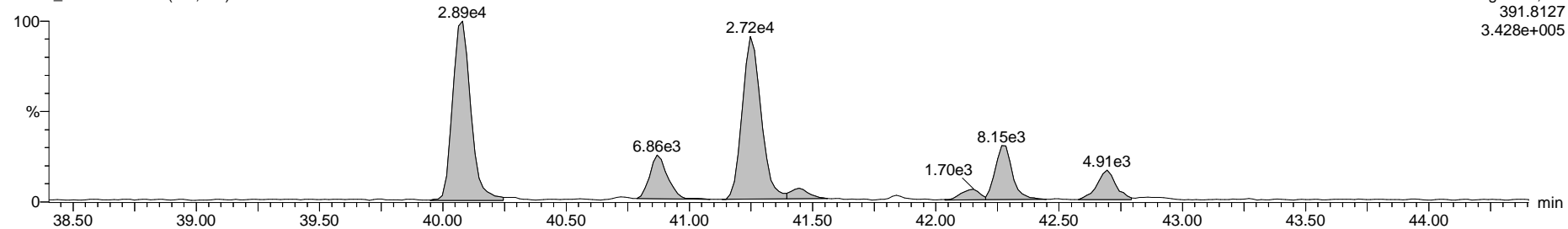
Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S6 Smooth(SG,1x2)

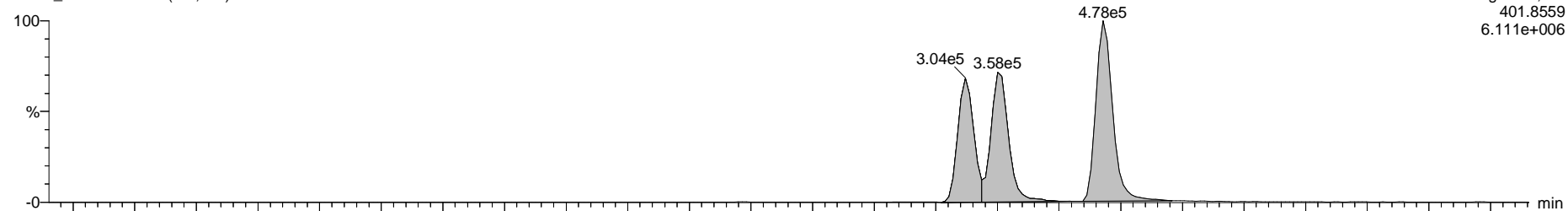


DX9M_083S6 Smooth(SG,1x2)

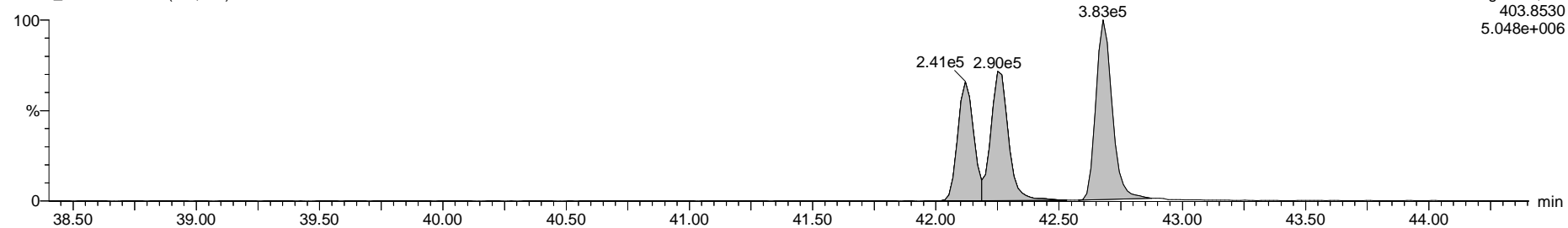


13C-1,2,3,4,7,8-HxCDD

DX9M_083S6 Smooth(SG,1x2)



DX9M_083S6 Smooth(SG,1x2)



PV WL 14-JUL-2009

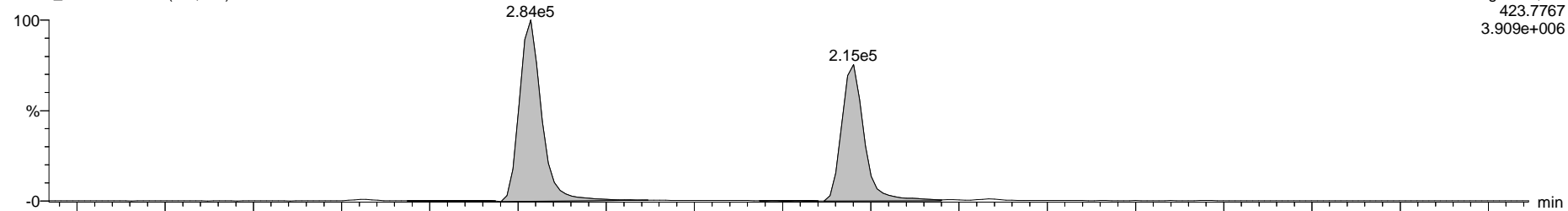


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

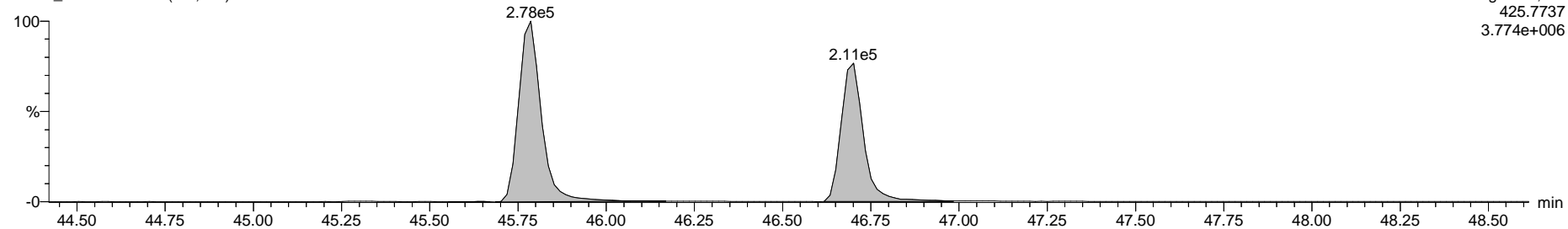
Total Hepta-Dioxins

DX9M_083S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
3.909e+006

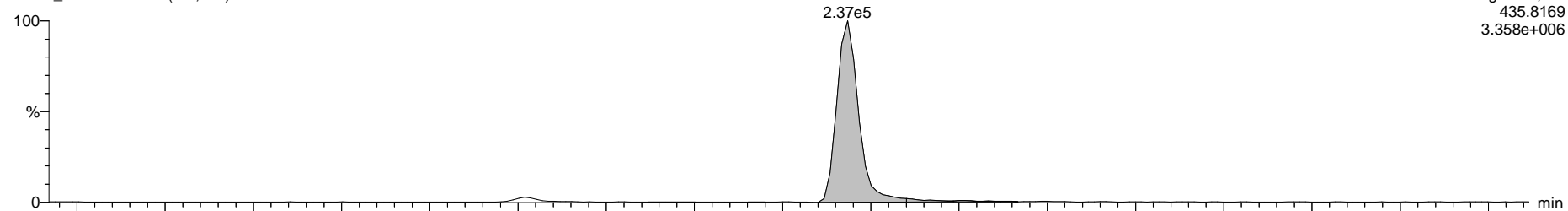
DX9M_083S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
3.774e+006

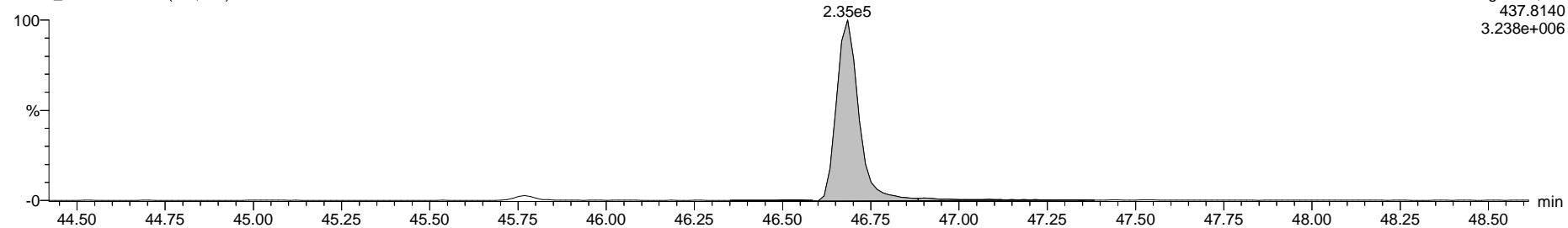
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
3.358e+006

DX9M_083S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
3.238e+006

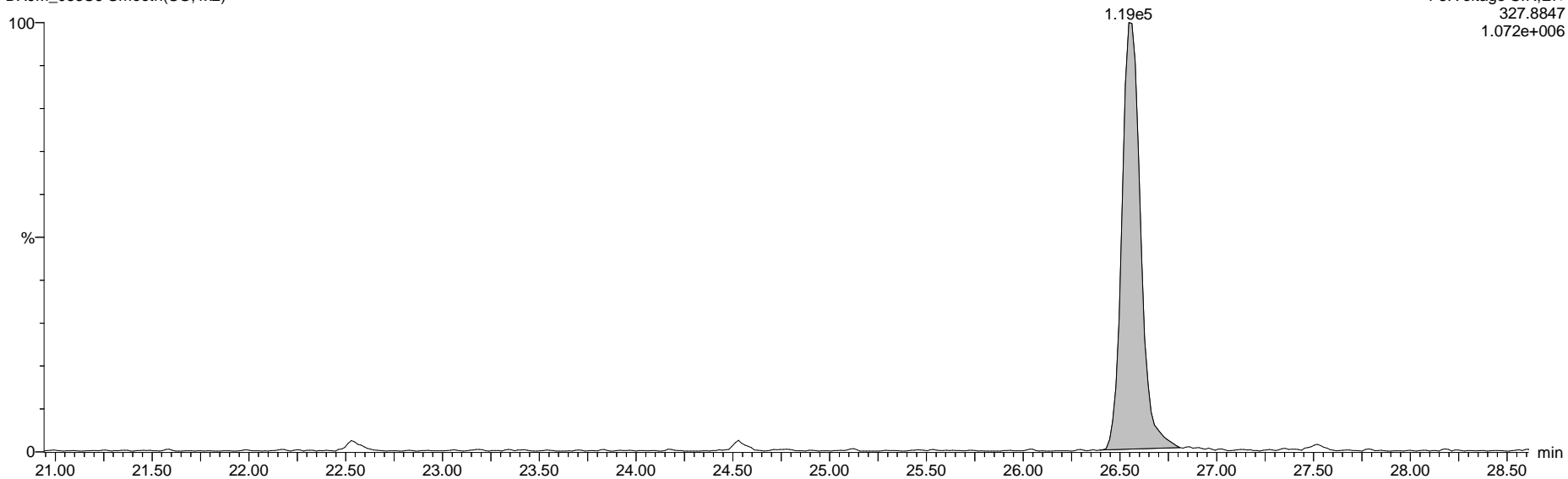


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

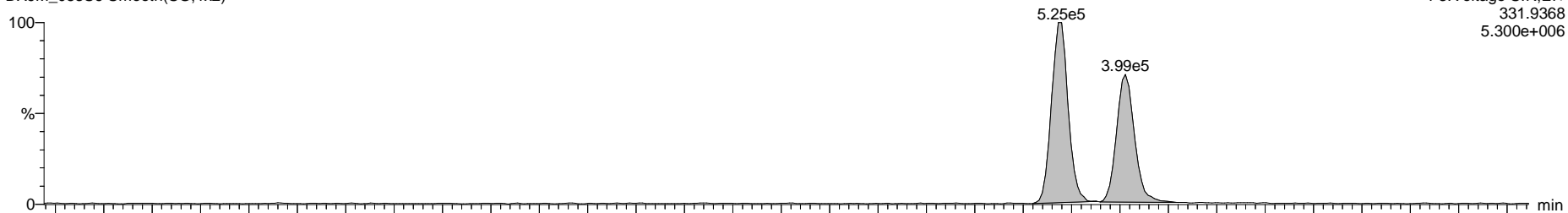
37Cl-2,3,7,8-TCDD

DX9M_083S6 Smooth(SG,1x2)

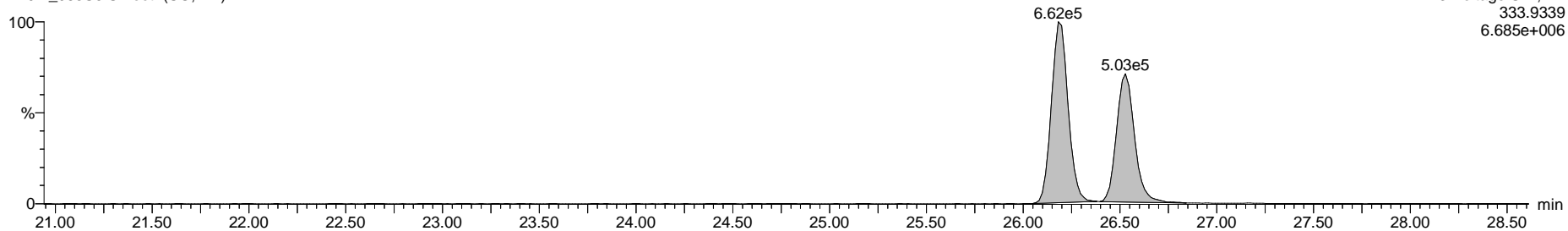


13C-1,2,3,4-TCDD

DX9M_083S6 Smooth(SG,1x2)



DX9M_083S6 Smooth(SG,1x2)

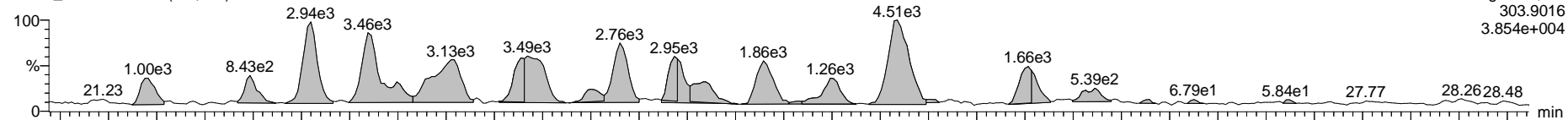


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

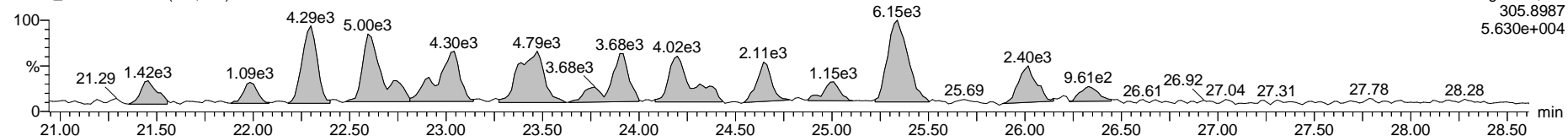
Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S6 Smooth(SG,1x2)

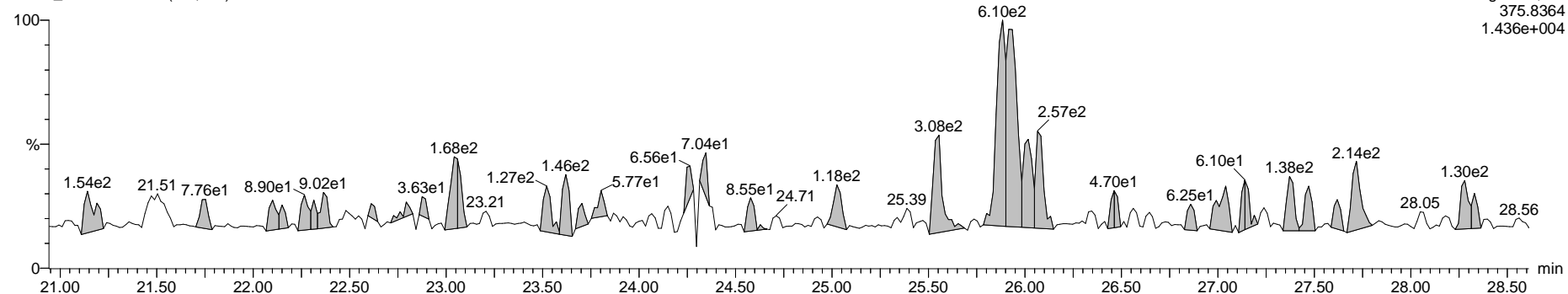


DX9M_083S6 Smooth(SG,1x2)



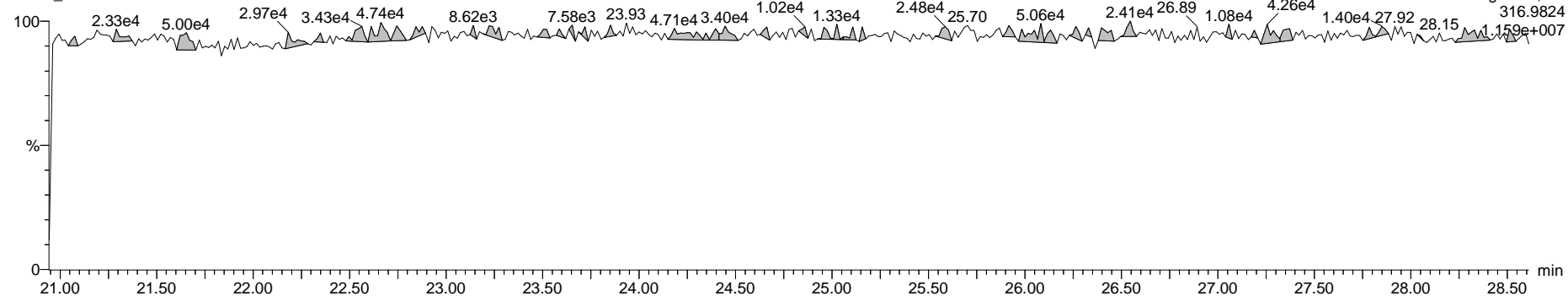
Hexa DPE

DX9M_083S6 Smooth(SG,1x2)



Tetra Lock

DX9M_083S6



PV WL 14-JUL-2009



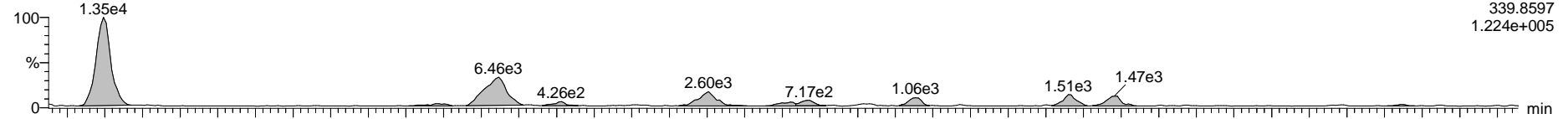
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

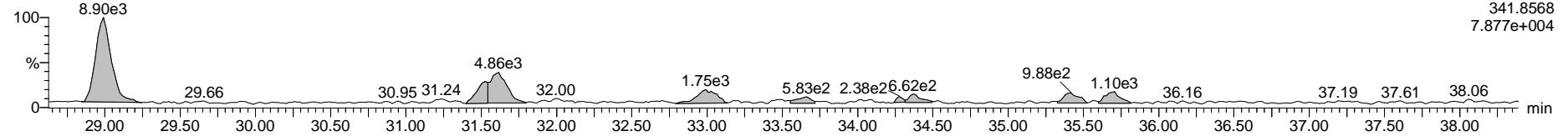
DX9M_083S6 Smooth(SG,1x2)

F4:Voltage SIR,EI+
339.8597
1.224e+005



DX9M_083S6 Smooth(SG,1x2)

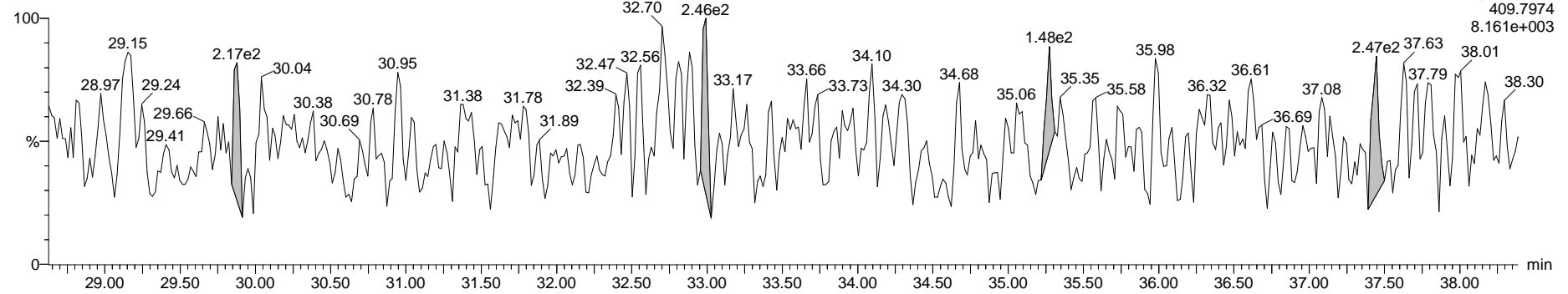
F4:Voltage SIR,EI+
341.8568
7.877e+004



Hepta DPE

DX9M_083S6 Smooth(SG,1x2)

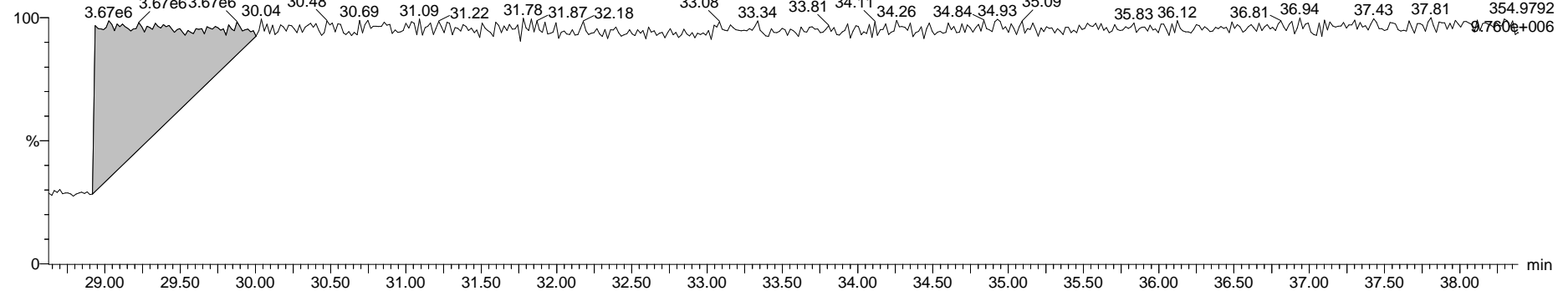
F4:Voltage SIR,EI+
409.7974
8.161e+003



Penta Lock

DX9M_083S6

F4:Voltage SIR,EI+
354.9792
9.760e+006



PV WL 14-JUL-2009

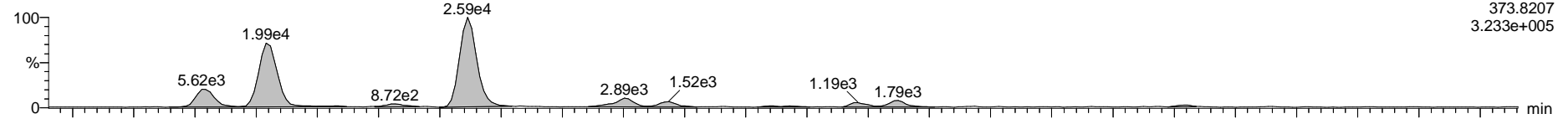


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

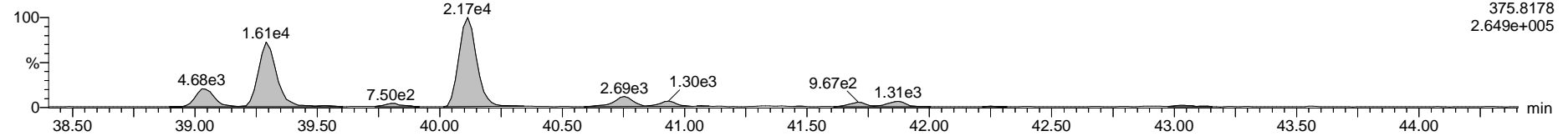
Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S6 Smooth(SG,1x2)

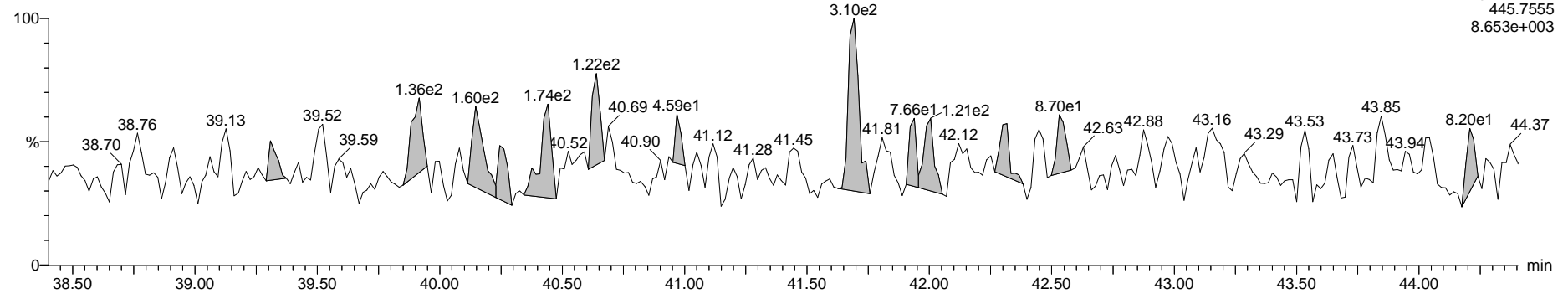


DX9M_083S6 Smooth(SG,1x2)



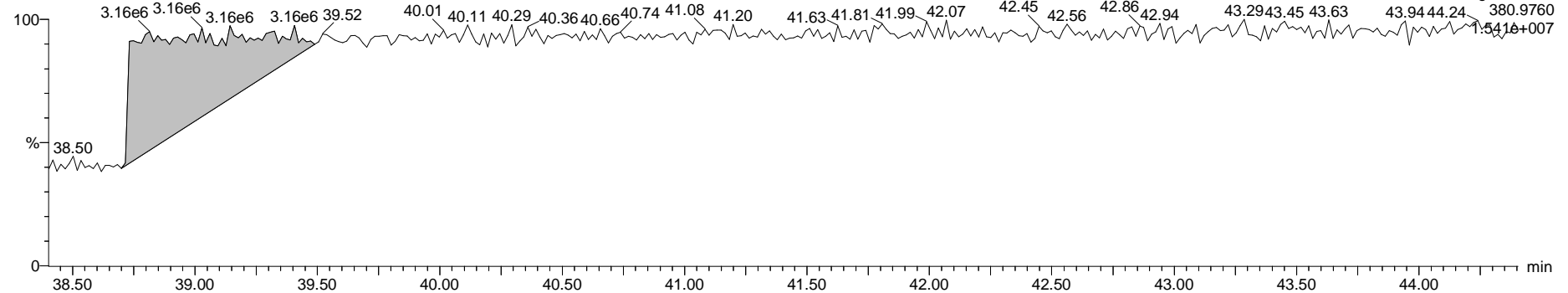
Octa DPE

DX9M_083S6 Smooth(SG,1x2)



Hexa Lock

DX9M_083S6

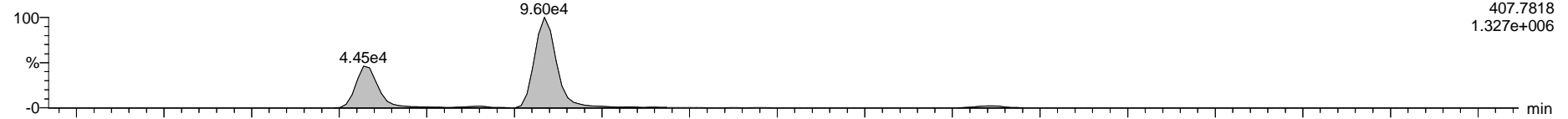


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S6, Date: 10-Jul-2009, Time: 13:02:08, ID: L12912-3,I,, Description: 1,WG29271,1.0/20uL

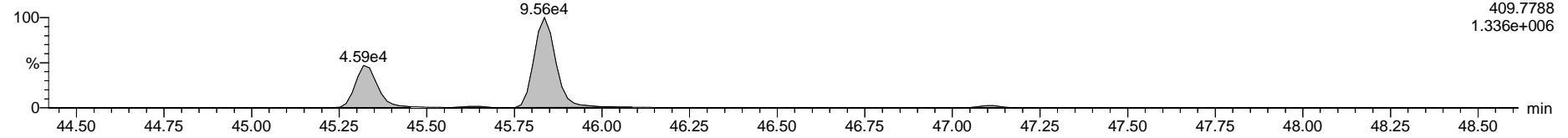
Total Hepta-Furans

DX9M_083S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
1.327e+006

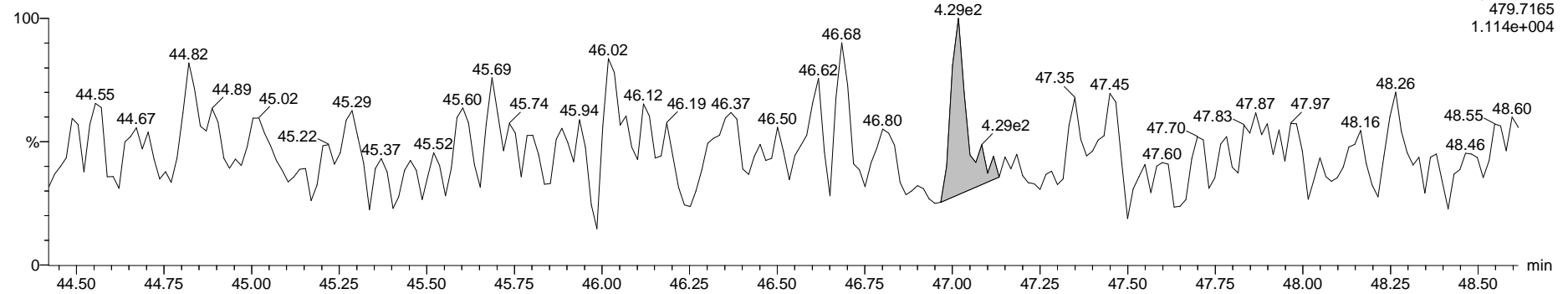
DX9M_083S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
1.336e+006

Nona DPE

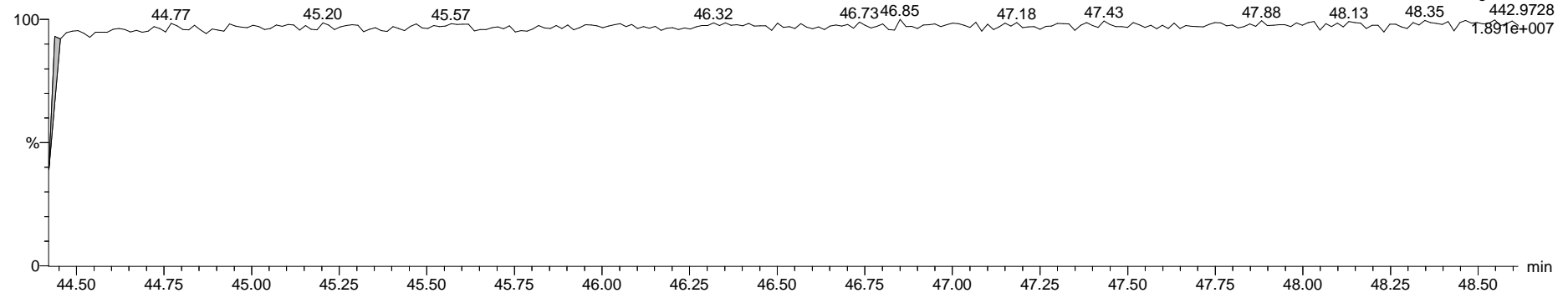
DX9M_083S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
479.7165
1.114e+004

Hepta Lock

DX9M_083S6



F6:Voltage SIR,EI+
442.9728
1.891e+007

PV WL 14-JUL-2009

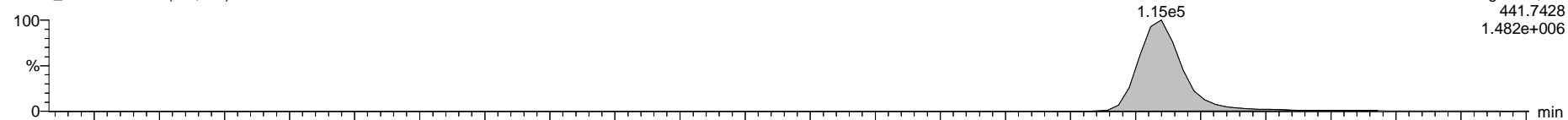


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

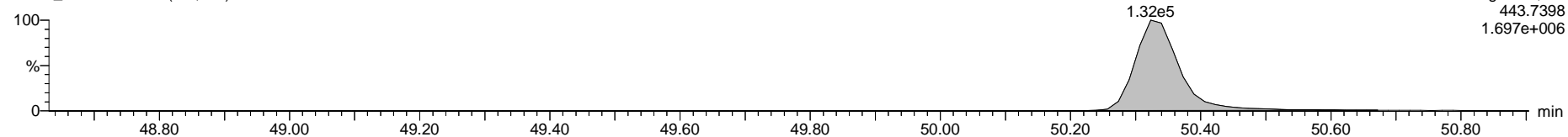
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OCDF

DX9M_083S6 Smooth(SG,1x2)

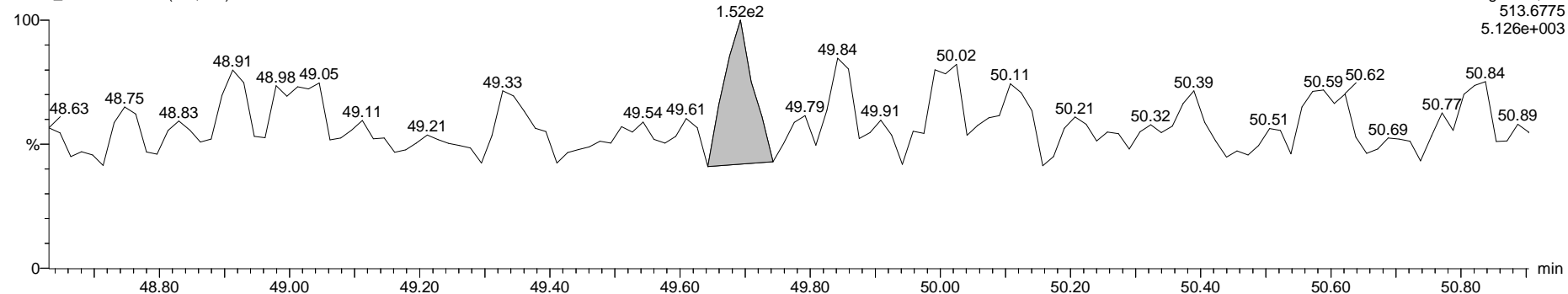


DX9M_083S6 Smooth(SG,1x2)



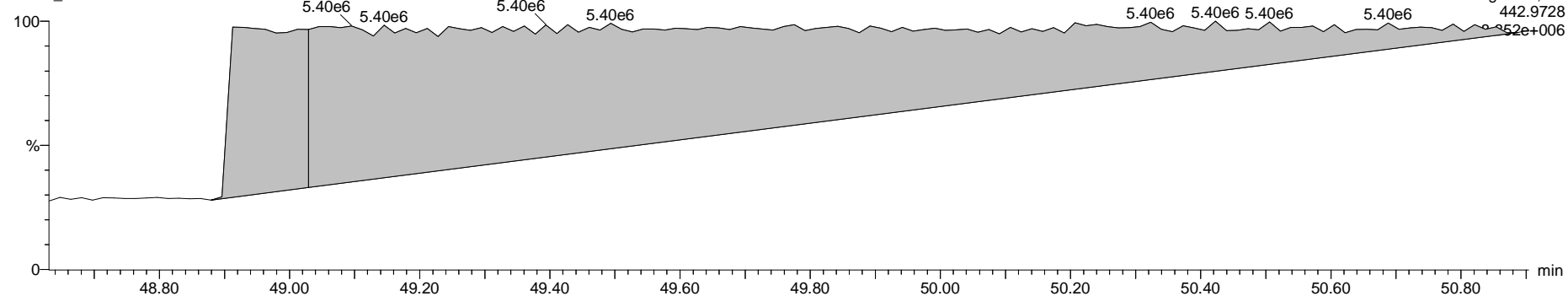
Deca DPE

DX9M_083S6 Smooth(SG,1x2)



Octa Lock

DX9M_083S6

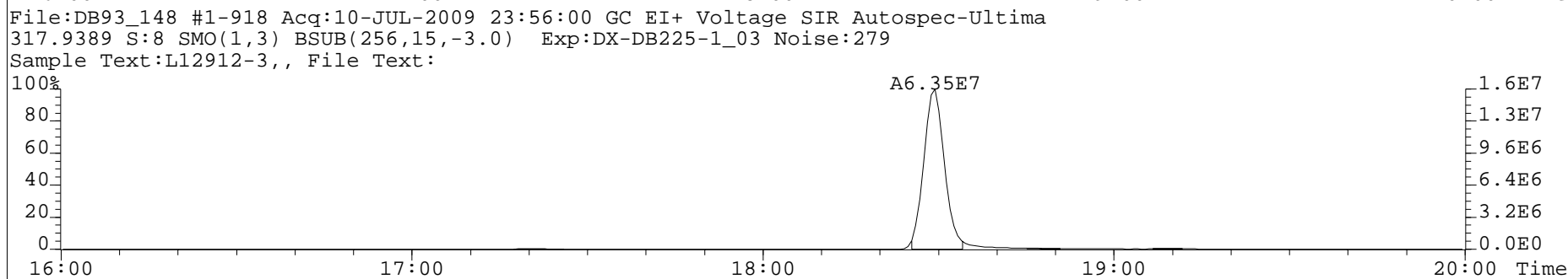
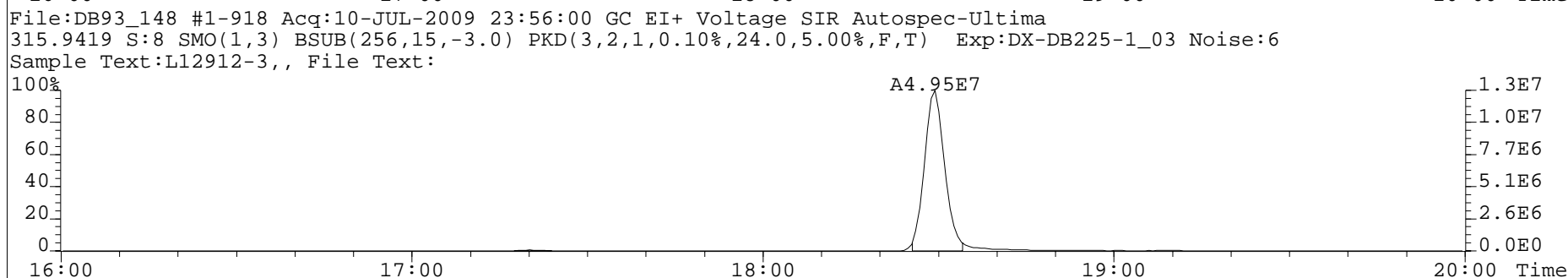
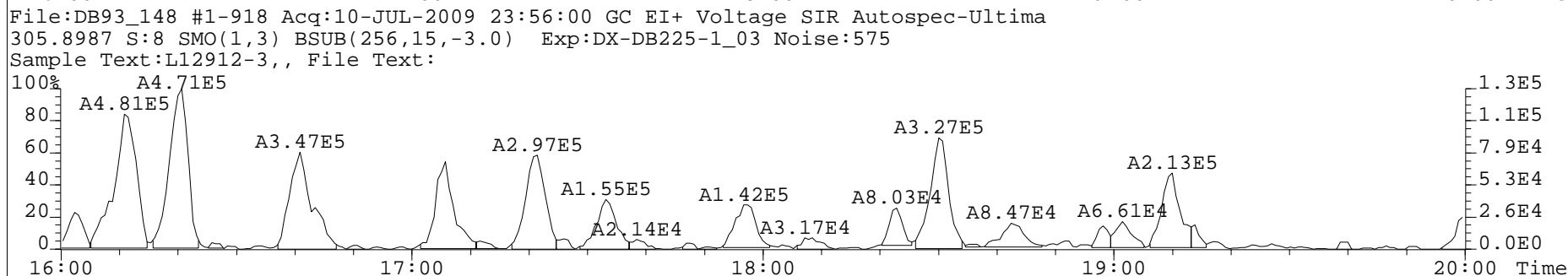
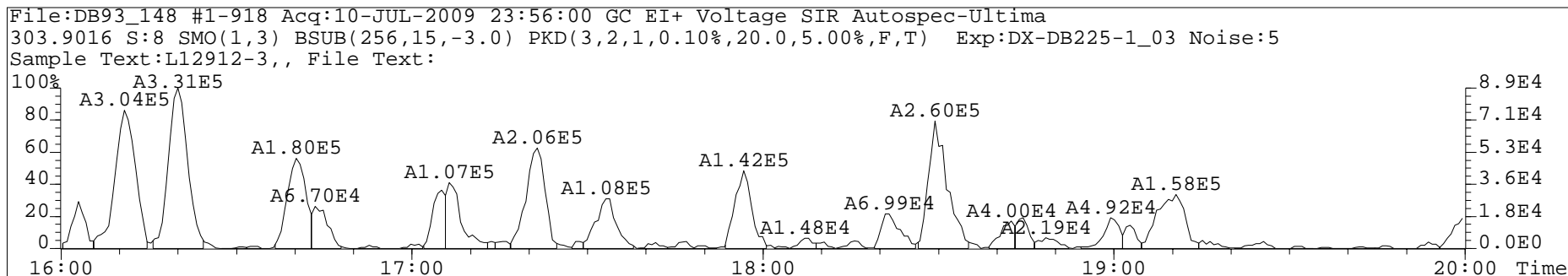


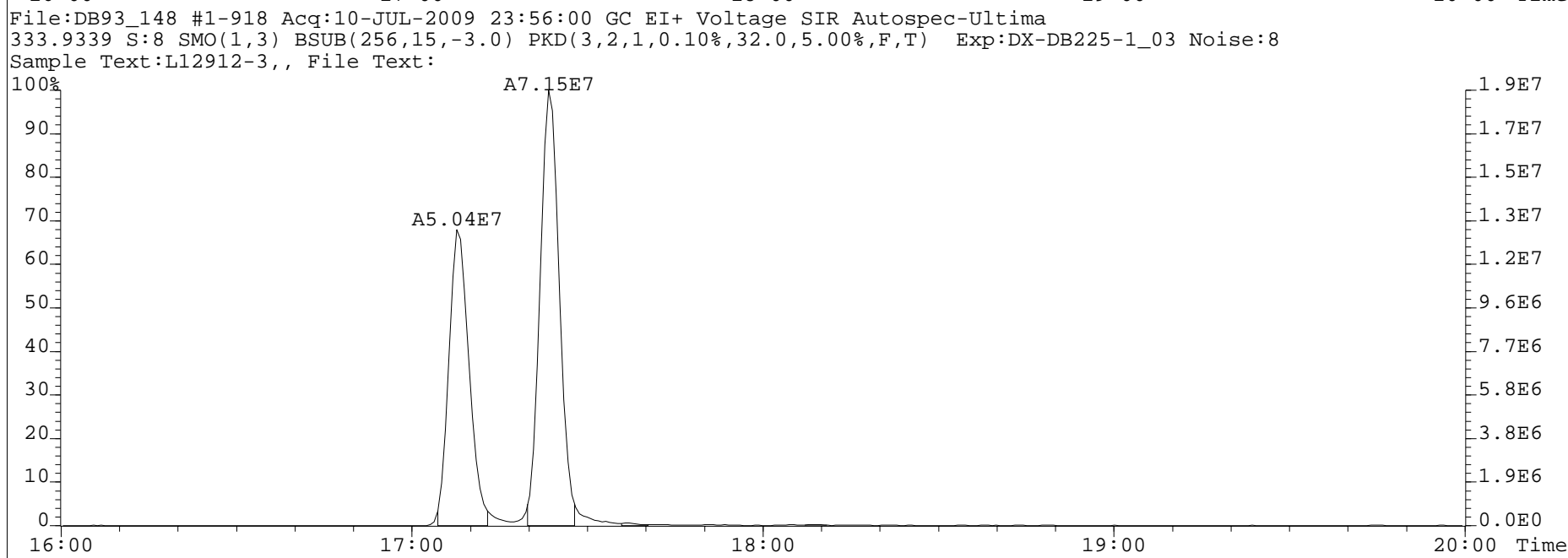
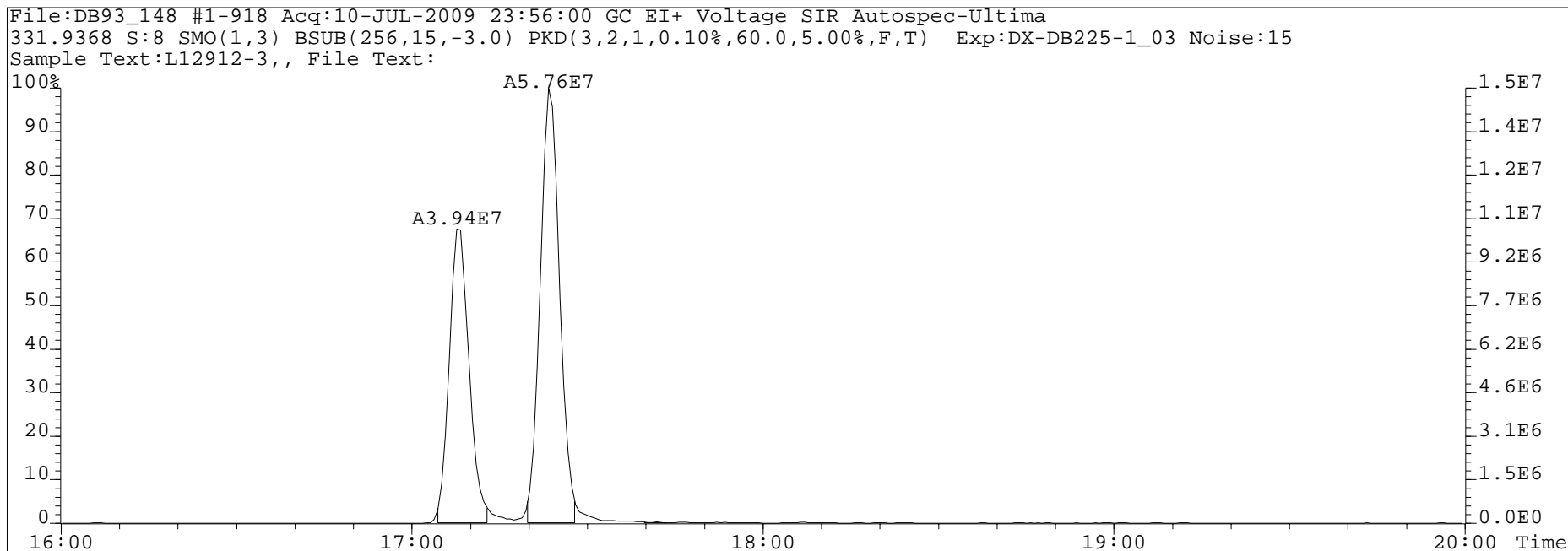
Run #12 Filename DB93_148 S: 8 I: 1 Acquired: 10-JUL-09 23:56:00 Processed: 15-JUL-09 13:58:41
 Run: db93_148-a Analyte: 1613B-db-s4 Cal: db93_146d> Results: db93_148-a Version: V3.6 6-JAN-2000 17:51:42
 Sample text: L12912-3,, Comments: 1,WG29271,2.0/20uL
 sample size: 10.140000 conc units: pg/g total toxicity: 0.13 F1: 1.0000 F2: 1.0000

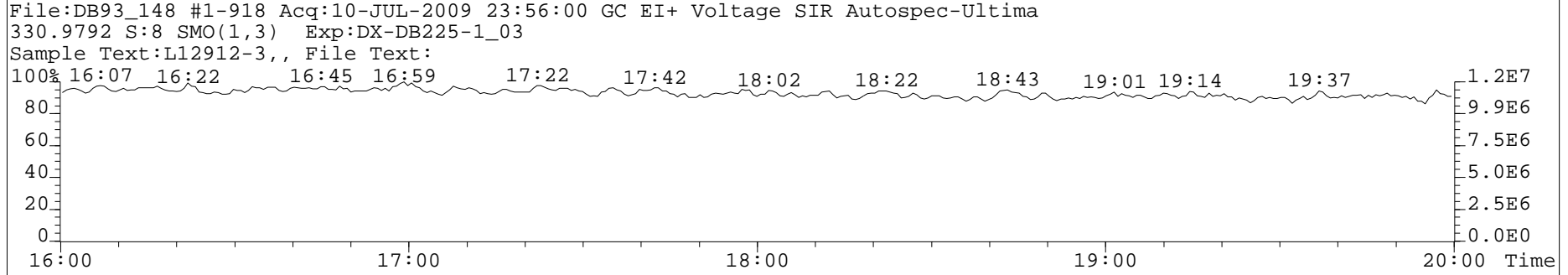
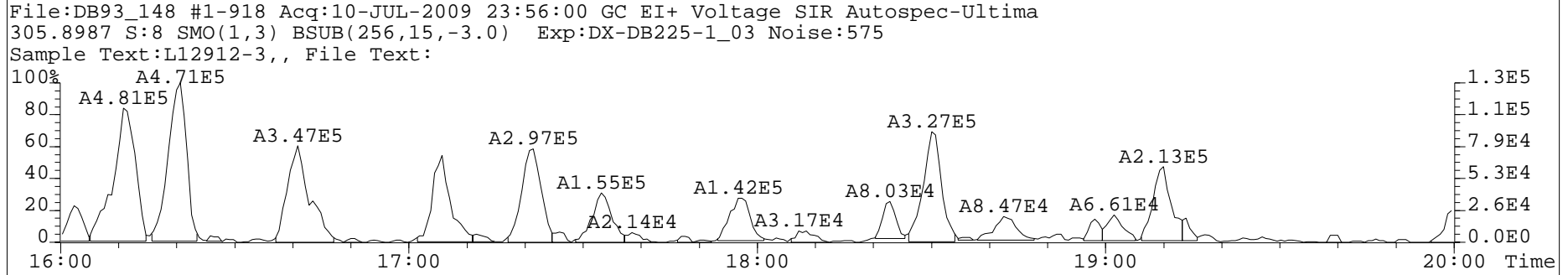
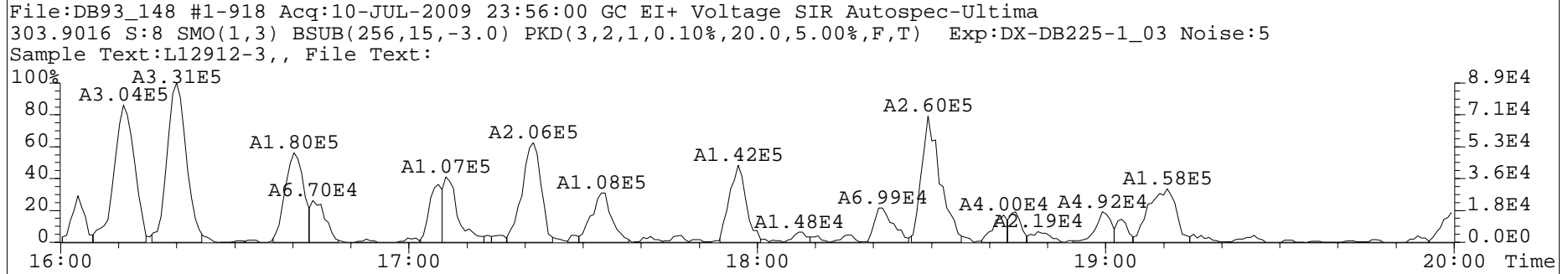
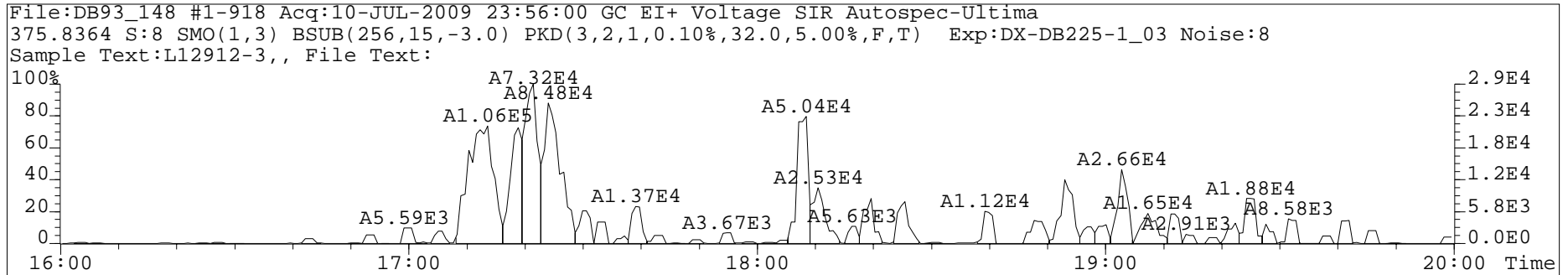
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	5.87e+05	0.79	y 18:30	1.306	0	0.0507	-	y
2 IS/RT	13C-2,3,7,8-TCDF	1	1.13e+08	0.78	y 18:29	118.421	-	0.0111	60.0	n
3 RS	13C-1,2,3,4-TCDD	1	1.29e+08	0.81	y 17:23	19.365	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

SUD DAA
22-Jul-09

PV BY IAK
15-July
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Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,1,, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fail?	RT	pg/g	DI	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	10.310	1.06e4	0.79	NO	25.34	2.343	0.1095		1.19e3	6.80e2
2	1,2,3,7,8-PeCDF	10.310	1.12e3	1.52	NO	33.68	0.303	0.1483		1.11e3	7.07e2
3	2,3,4,7,8-PeCDF	10.310	2.02e3	1.31	YES	35.44	0.596	0.1465		1.11e3	7.07e2
4	1,2,3,4,7,8-HxCDF	10.310	2.95e3	1.19	NO	40.75	1.045	0.1016		5.26e2	9.04e2
5	1,2,3,6,7,8-HxCDF	10.310	2.40e3	1.29	NO	40.94	0.719	0.0913		5.26e2	9.04e2
6	2,3,4,6,7,8-HxCDF	10.310	2.07e3	0.98	YES	41.86	0.776	0.1079		5.26e2	9.04e2
7	1,2,3,7,8,9-HxCDF	10.310	5.04e2	1.30	NO	43.04	MD0.214	0.1318		5.26e2	9.04e2
8	1,2,3,4,6,7,8-HpCDF	10.310	5.88e4	1.01	NO	45.32	23.441	0.0997		7.46e2	6.10e2
9	1,2,3,4,7,8,9-HpCDF	10.310	2.56e3	1.06	NO	47.12	1.202	0.1207		7.46e2	6.10e2
10	OCDF	10.310	1.33e5	0.86	NO	50.34	66.820	0.1939		1.28e3	7.24e2
11	2,3,7,8-TCDD	10.310	1.03e3	0.46	YES	26.58	0.253	0.1367		1.29e3	8.15e2
12	1,2,3,7,8-PeCDD	10.310	3.06e3	0.58	NO	36.23	1.034	0.2277		1.54e3	1.16e3
13	1,2,3,4,7,8-HxCDD	10.310	2.65e3	1.56	YES	42.14	1.137	0.1187		9.62e2	5.74e2
14	1,2,3,6,7,8-HxCDD	10.310	1.16e4	1.23	NO	42.28	4.413	0.1201		9.62e2	5.74e2
15	1,2,3,7,8,9-HxCDD	10.310	8.12e3	1.19	NO	42.69	3.329	0.1216		9.62e2	5.74e2
16	1,2,3,4,6,7,8-HpCDD	10.310	1.78e5	1.02	NO	46.70	72.004	0.1753		9.33e2	1.51e3
17	OCDD	10.310	1.10e6	0.87	NO	50.26	509.254	0.1031		5.89e2	5.64e2
18	13C-2,3,7,8-TCDF	10.310	1.14e6	0.76	NO	25.31	153.508	0.2534	79.1	4.98e3	2.33e3
19	13C-1,2,3,7,8-PeCDF	10.310	8.59e5	1.56	NO	33.64	165.419	0.2571	85.3	2.95e3	2.22e3
20	13C-2,3,4,7,8-PeCDF	10.310	7.75e5	1.57	NO	35.40	153.458	0.2642	79.1	2.95e3	2.22e3
21	13C-1,2,3,4,7,8-HxCDF	10.310	5.70e5	0.51	NO	40.74	146.563	0.3109	75.6	3.92e3	2.19e3
22	13C-1,2,3,6,7,8-HxCDF	10.310	7.08e5	0.50	NO	40.90	156.287	0.2672	80.6	3.92e3	2.19e3
23	13C-2,3,4,6,7,8-HxCDF	10.310	5.96e5	0.51	NO	41.84	143.584	0.2912	74.0	3.92e3	2.19e3
24	13C-1,2,3,7,8,9-HxCDF	10.310	5.63e5	0.51	NO	42.88	145.159	0.3121	74.8	3.92e3	2.19e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.310	4.61e5	0.44	NO	45.30	147.797	0.3070	76.2	2.21e3	2.62e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.310	4.31e5	0.43	NO	47.08	150.258	0.3333	77.5	2.21e3	2.62e3
27	13C-2,3,7,8-TCDD	10.310	8.87e5	0.75	NO	26.53	155.053	0.4562	79.9	2.64e3	7.48e3
28	13C-1,2,3,7,8-PeCDD	10.310	6.54e5	0.61	NO	36.20	176.692	0.3662	91.1	3.48e3	1.77e3
29	13C-1,2,3,4,7,8-HxCDD	10.310	5.54e5	1.26	NO	42.12	148.812	0.2038	76.7	2.14e3	1.70e3
30	13C-1,2,3,6,7,8-HxCDD	10.310	6.73e5	1.26	NO	42.27	154.841	0.1745	79.8	2.14e3	1.70e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.310	4.99e5	1.03	NO	46.68	153.013	0.2497	78.9	2.02e3	2.09e3
32	13C-OCDD	10.310	9.00e5	0.90	NO	50.24	242.960	0.2152	62.6	2.25e3	1.78e3
33	13C-1,2,3,4-TCDD	10.310	1.02e6	0.78	NO	26.20	5.569	0.0143	2.9	2.64e3	7.48e3
34	13C-1,2,3,7,8,9-HxCDD	10.310	7.40e5	1.23	NO	42.68	6.380	0.0065	3.3	2.14e3	1.70e3
35	37Cl-2,3,7,8-TCDD	10.310	1.02e5			26.56	18.684	0.1031	96.3		2.18e3
36	Total Tetra-Furans	10.310					15.031	0.1095			6.80e2
37	Total Tetra-Dioxins	10.310				10.872	44.269	0.1367			8.15e2
38	Total Penta-Furans	10.310				9.189	9.784	0.1486	0.1483		7.07e2
39	Total Penta-Dioxins	10.310				10.16	12.061	0.2277			1.16e3
40	Total Hexa-Furans	10.310				21.381	23.046	0.0965	0.1318		9.04e2
41	Total Hexa-Dioxins	10.310				39.3	47.447	0.4447	0.1216		5.74e2
42	Total Hepta-Furans	10.310					64.942	0.4044	0.1207		6.10e2
43	Total Hepta-Dioxins	10.310					173.510	0.1753			1.51e3
44	Hexa DPE	1.000	3.85e2			25.90					1.49e3
45	Hepta DPE	1.000	3.66e2			34.06					1.85e3
46	Octa DPE	1.000	2.55e2			40.69					1.40e3
47	Nona DPE	1.000	3.99e2			48.51					2.32e3
48	Deca DPE	1.000	1.13e2			49.29					9.91e2
49	Tetra Lock	1.000	4.82e4			25.27					4.91e5
50	Penta Lock	1.000	1.22e6			28.94					5.71e5
51	Hexa Lock	1.000	2.86e6			39.41					1.27e6
52	Hepta Lock	1.000	7.09e4			44.72					4.95e5
53	Octa Lock	1.000	5.44e6			49.88					2.15e5

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SV'd BRA 23-Jul-09



Dataset: G:\Masslynx\inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,1,, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	24.20	0.684	NO	1.363
2	23.92	0.809	NO	1.249
3	23.47	0.829	NO	1.688
4	23.03	0.848	NO	1.628
5	22.61	0.790	NO	1.836
6	22.30	0.660	NO	1.379
7	22.00	0.669	NO	0.460
8	21.46	0.865	NO	0.428
9	26.35	0.832	NO	0.313
10	26.03	0.791	NO	0.894
11	25.34	0.793	NO	2.343
12	24.99	0.695	NO	0.505
13	24.65	0.752	NO	0.946

19

Tetradioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	24.74	0.782	NO	1.455
2	23.82	0.631	YES	0.525
3	23.42	0.761	NO	3.333
4	23.01	0.742	NO	5.148
5	26.41	0.819	NO	0.956
6	26.21	0.647	YES	0.980
7	25.72	0.904	YES	0.328
8	25.31	1.717	YES	1.290
9	26.58	0.464	YES	0.253

19

Pentafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	32.97	1.558	NO	1.022
2	31.63	1.719	NO	2.587
3	29.01	1.521	NO	4.711
4	35.71	1.403	NO	0.566
5	35.44	1.306	YES	0.596
6	33.68	1.516	NO	0.303

19

Pentadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	36.23	0.579	NO	1.034
2	35.60	0.379	YES	0.631
3	35.13	0.606	NO	0.585
4	34.97	0.497	YES	0.359
5	34.58	0.666	NO	1.895
6	34.28	0.748	YES	1.035
7	33.95	0.674	NO	2.597
8	33.28	0.863	YES	0.775
9	32.12	0.651	NO	4.049

19

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,1,, Description: 1,WG29271,1.0/20uL

Hexafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	43.04	1.383	NO	0.214
2	41.86	0.981	YES	0.776
3	41.71	0.877	YES	0.390
4	41.35	0.936	YES	0.161
5	40.94	1.291	NO	0.719
6	40.75	1.190	NO	1.045
7	40.67	0.600	YES	0.252
8	40.11	1.228	NO	7.842
9	39.82	1.341	NO	0.398
10	39.54	1.012	YES	0.085
11	39.31	1.205	NO	8.499
12	39.04	1.120	NO	2.664

cg

Hexadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	41.45	1.229	NO	1.029
2	41.26	1.192	NO	16.135
3	40.87	1.468	YES	6.710
4	40.08	1.169	NO	14.394
5	42.69	1.186	NO	3.329
6	42.28	1.232	NO	4.413
7	42.14	1.556	YES	1.137

cg

Heptafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	47.12	1.062	NO	1.202
2	45.84	1.000	NO	39.355
3	45.64	1.016	NO	0.944
4	45.32	1.007	NO	23.441

cg

Heptadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	46.70	1.016	NO	72.004
2	45.79	1.004	NO	101.506

cg

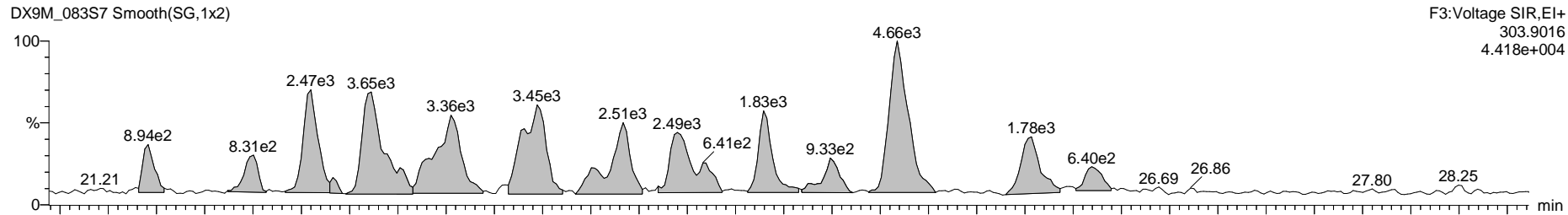
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Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

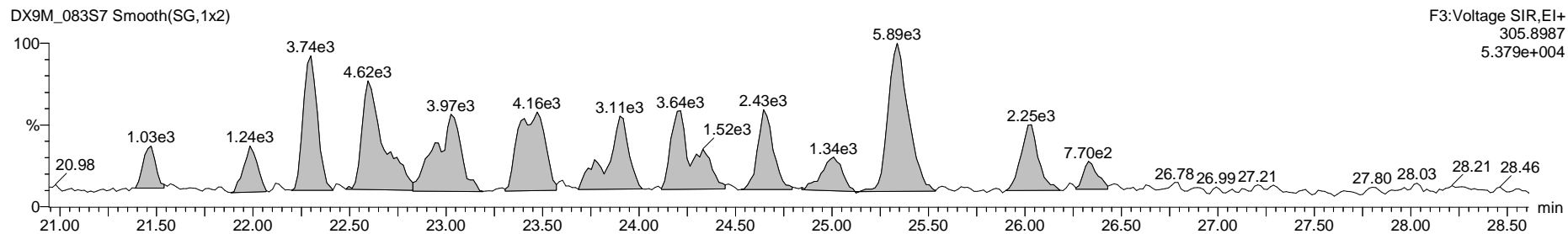
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,l,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S7 Smooth(SG,1x2)

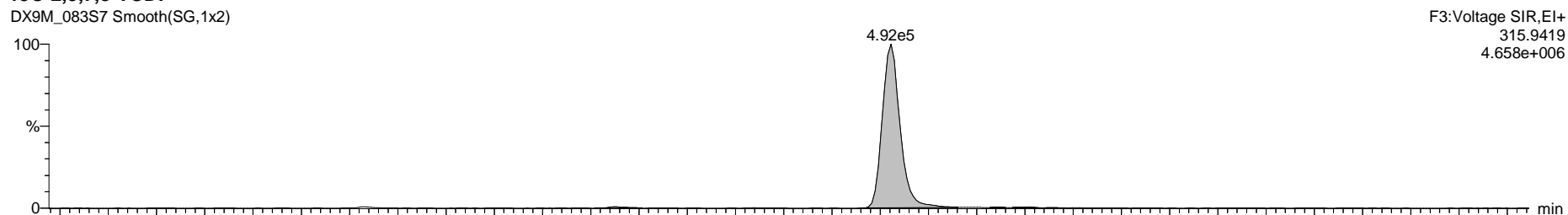


DX9M_083S7 Smooth(SG,1x2)

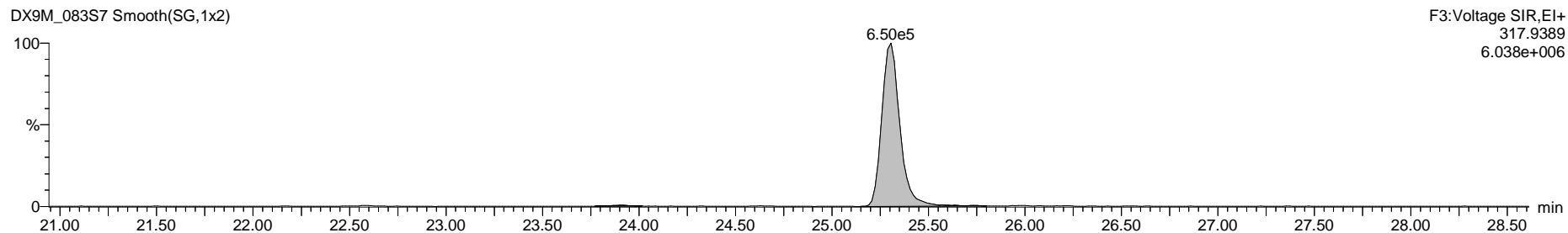


13C-2,3,7,8-TCDF

DX9M_083S7 Smooth(SG,1x2)



DX9M_083S7 Smooth(SG,1x2)



PV WL 14-JUL-2009

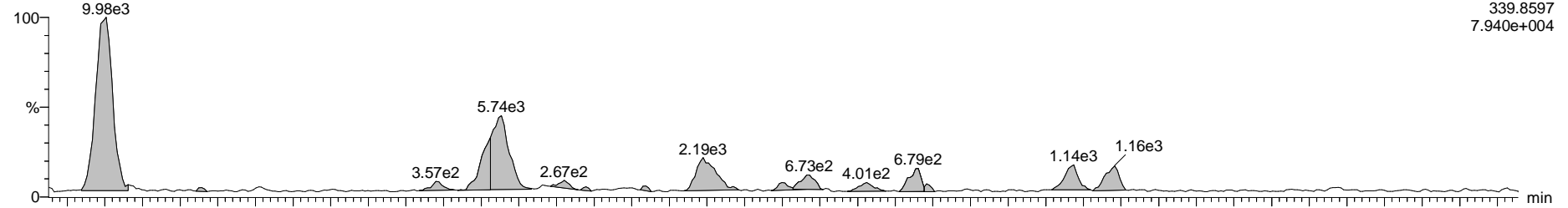


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

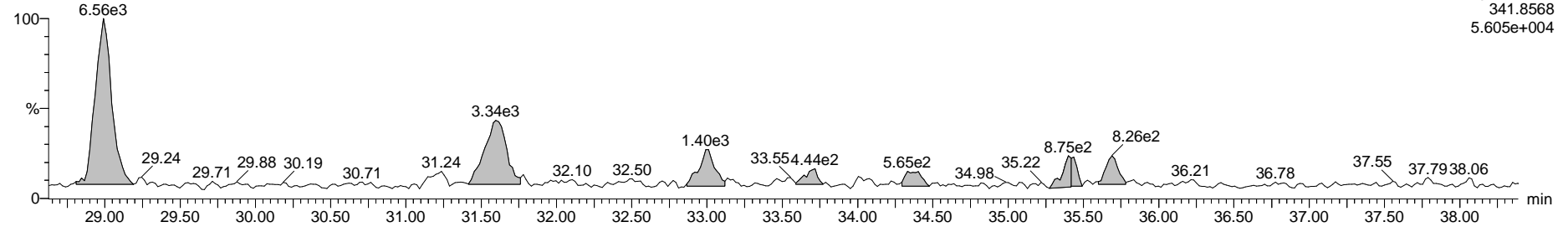
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S7 Smooth(SG,1x2)

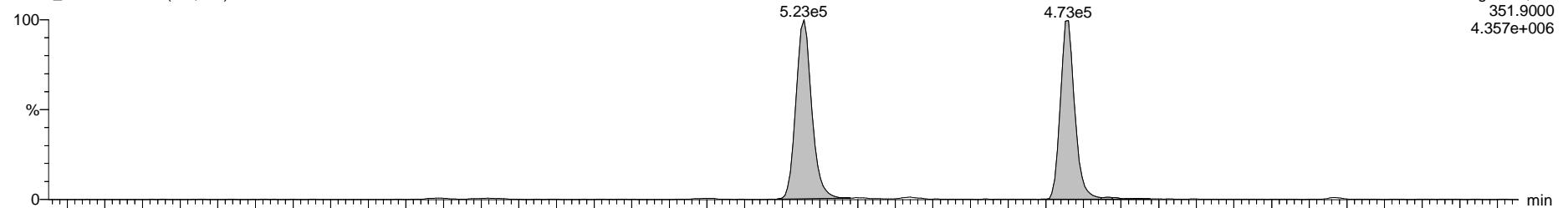


DX9M_083S7 Smooth(SG,1x2)

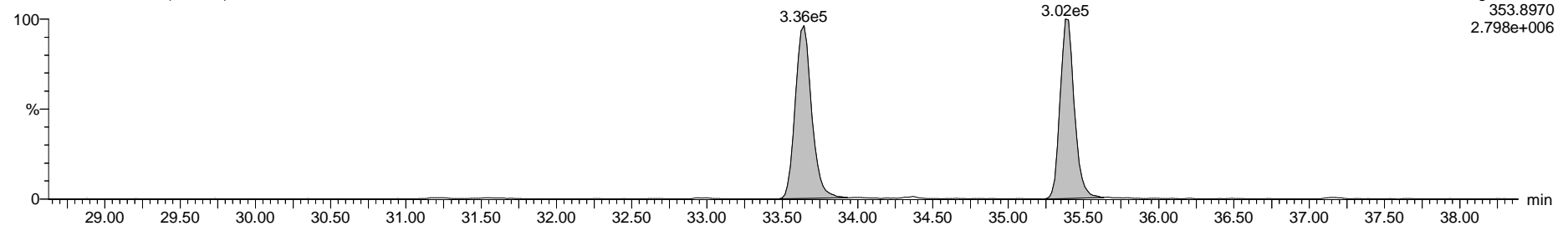


13C-1,2,3,7,8-PeCDF

DX9M_083S7 Smooth(SG,1x2)



DX9M_083S7 Smooth(SG,1x2)



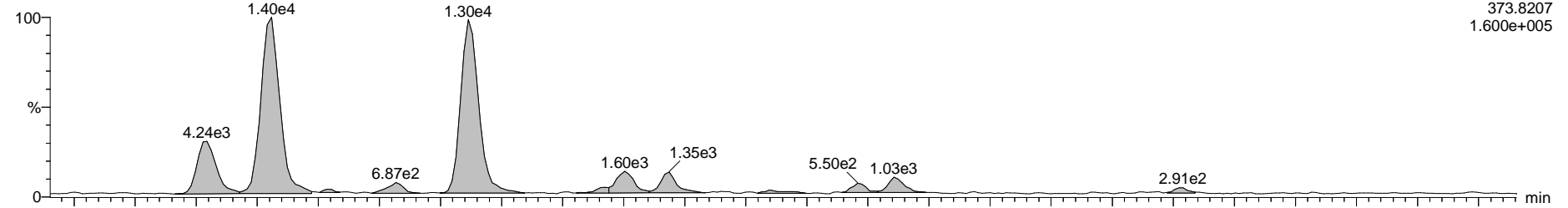
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

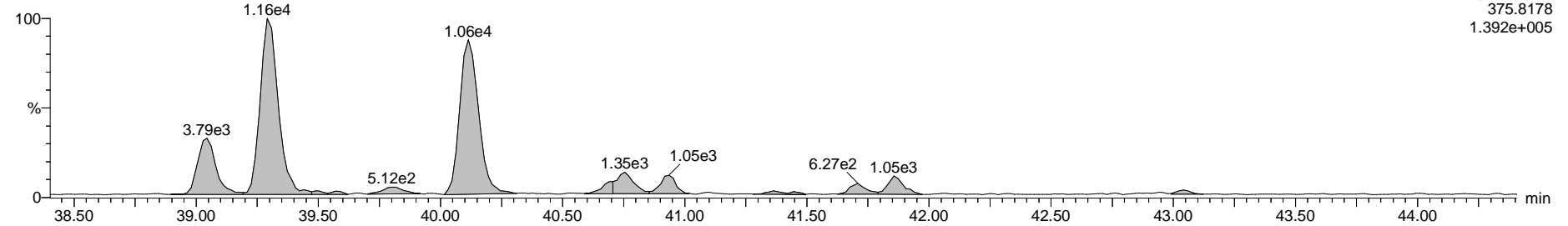
DX9M_083S7 Smooth(SG,1x2)

F5:Voltage SIR,EI+
373.8207
1.600e+005



DX9M_083S7 Smooth(SG,1x2)

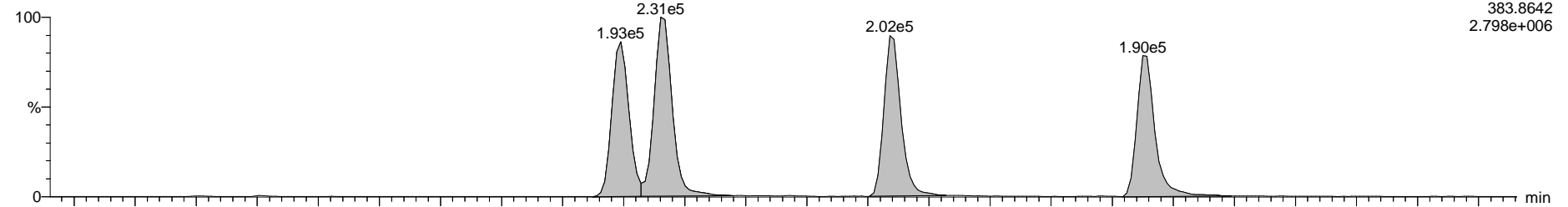
F5:Voltage SIR,EI+
375.8178
1.392e+005



13C-1,2,3,4,7,8-HxCDF

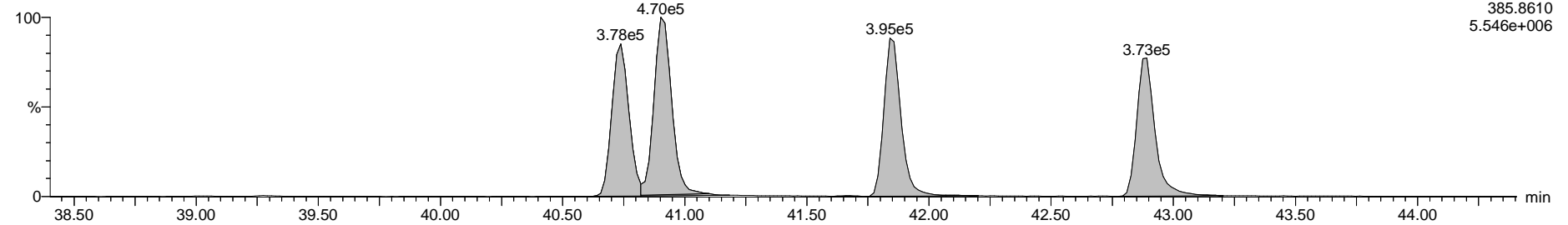
DX9M_083S7 Smooth(SG,1x2)

F5:Voltage SIR,EI+
383.8642
2.798e+006



DX9M_083S7 Smooth(SG,1x2)

F5:Voltage SIR,EI+
385.8610
5.546e+006



PV WL 14-JUL-2009

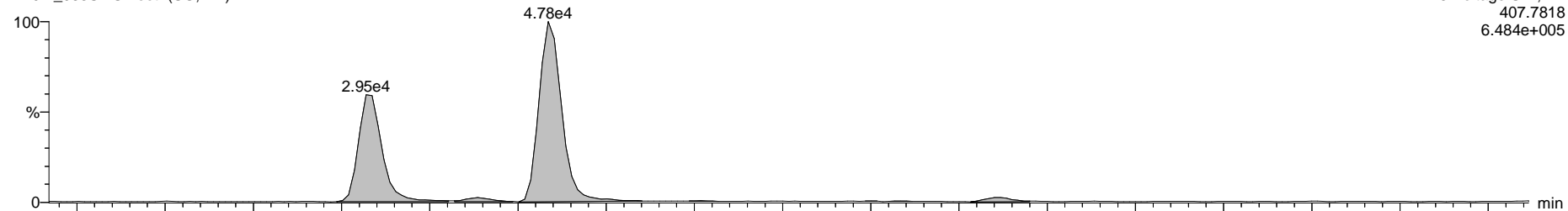


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

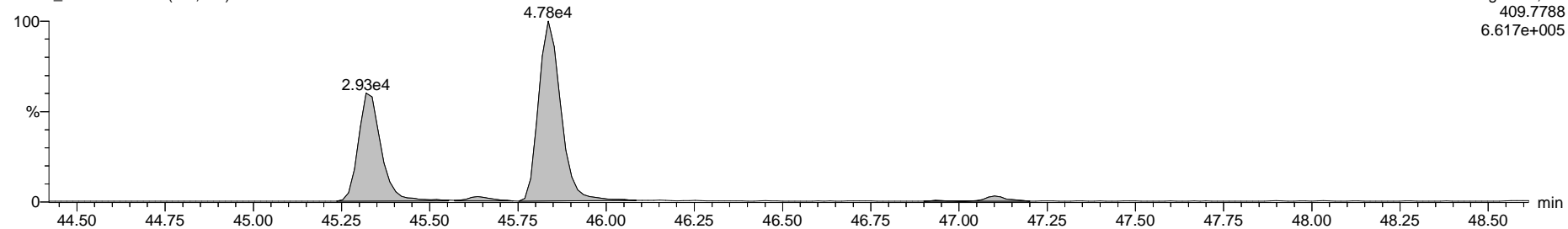
Total Hepta-Furans

DX9M_083S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
6.484e+005

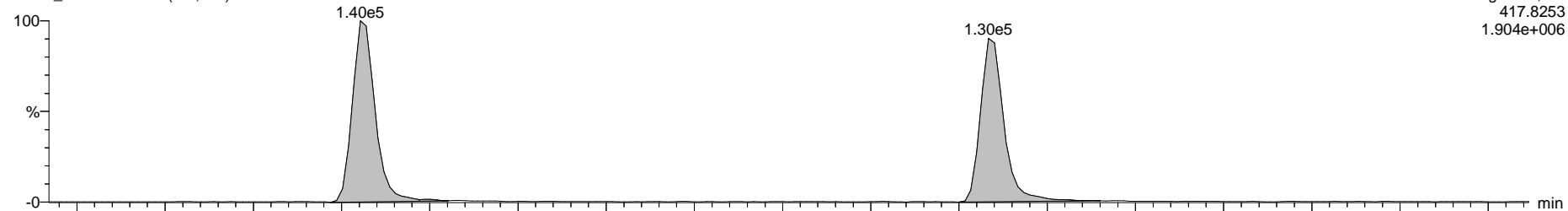
DX9M_083S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
6.617e+005

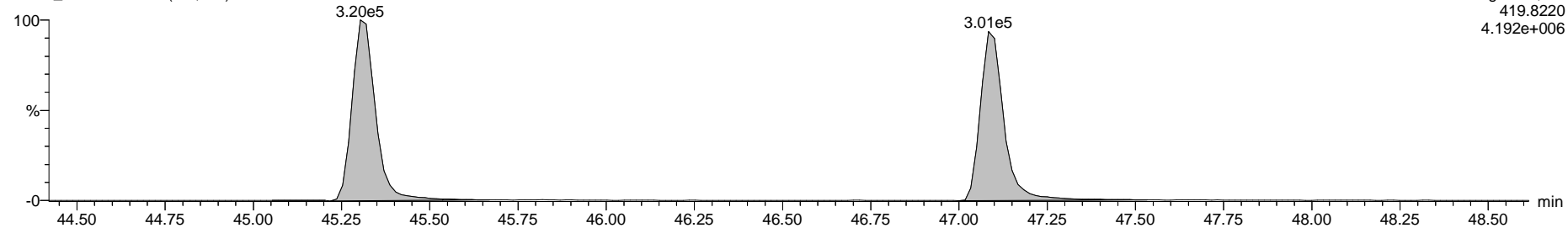
13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
1.904e+006

DX9M_083S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
4.192e+006

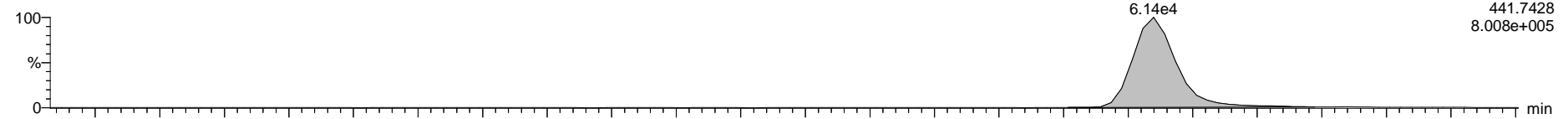


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

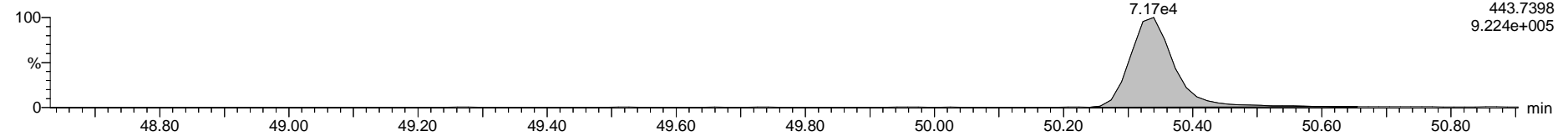
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S7 Smooth(SG,1x2)

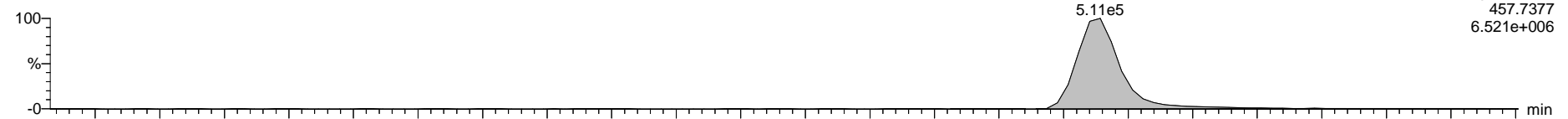


DX9M_083S7 Smooth(SG,1x2)

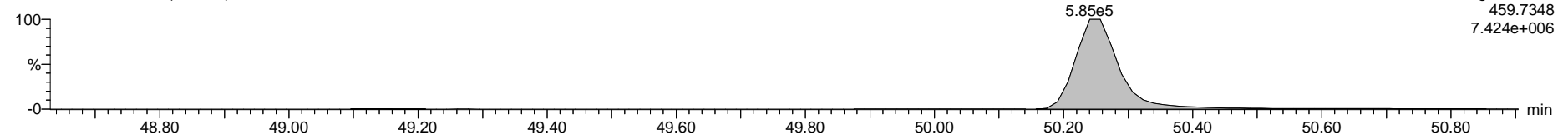


OCDD

DX9M_083S7 Smooth(SG,1x2)

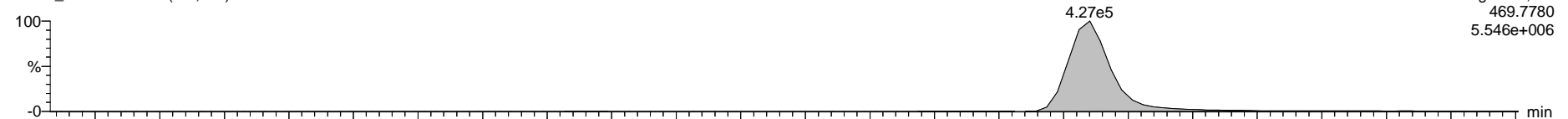


DX9M_083S7 Smooth(SG,1x2)

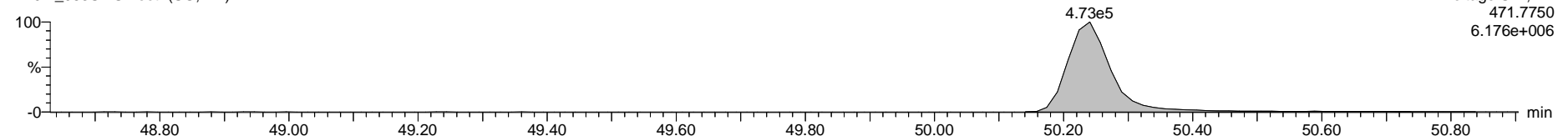


13C-OCDD

DX9M_083S7 Smooth(SG,1x2)



DX9M_083S7 Smooth(SG,1x2)

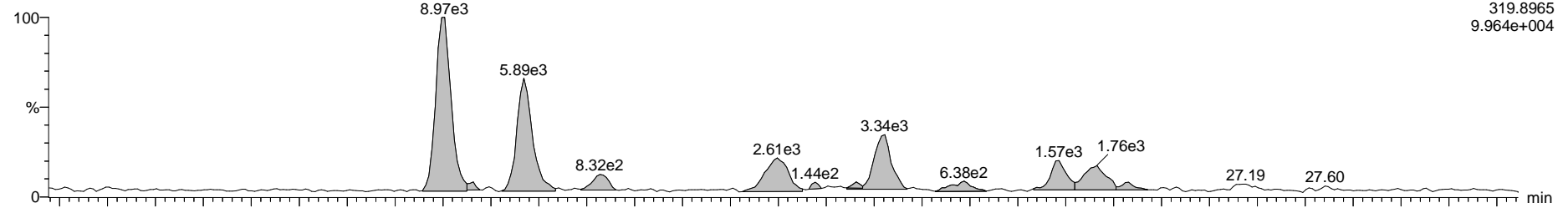


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

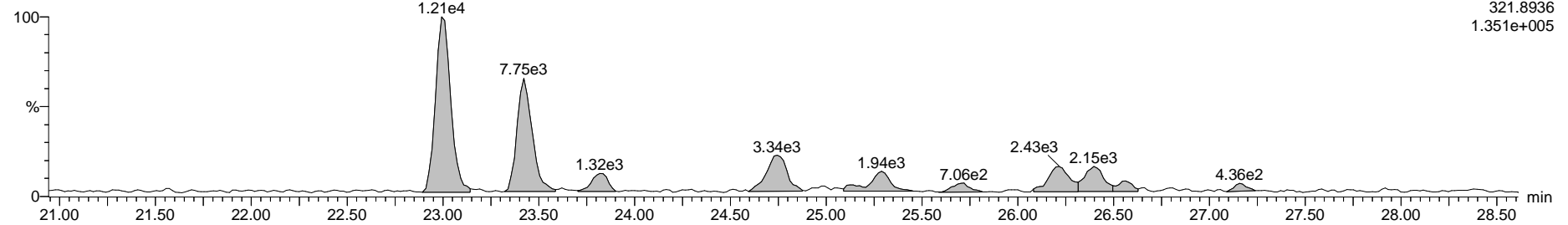
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_083S7 Smooth(SG,1x2)

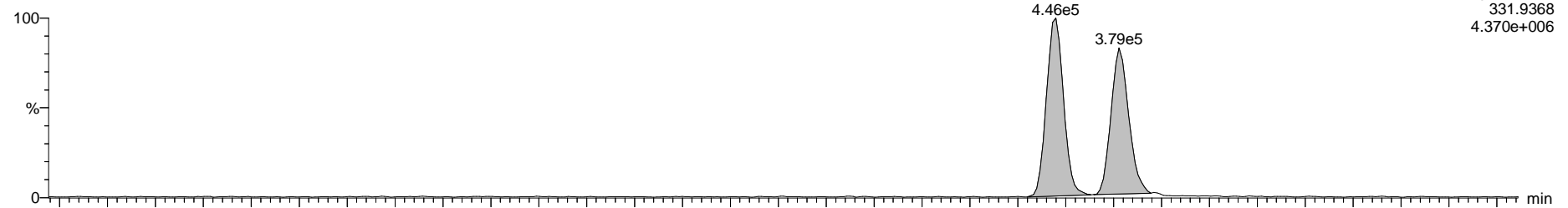


DX9M_083S7 Smooth(SG,1x2)

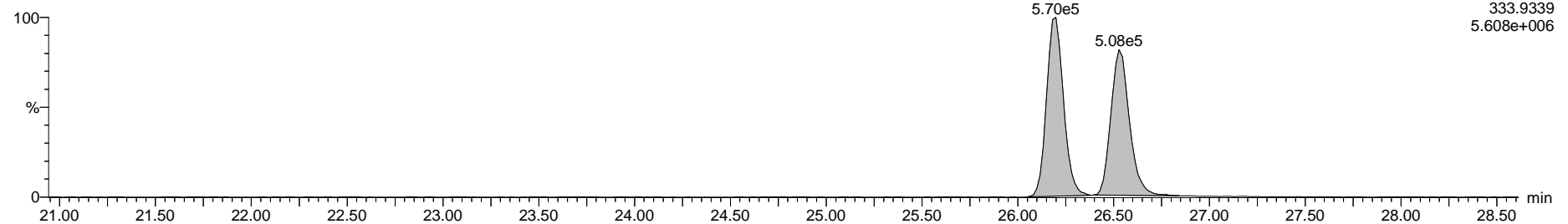


13C-2,3,7,8-TCDD

DX9M_083S7 Smooth(SG,1x2)



DX9M_083S7 Smooth(SG,1x2)



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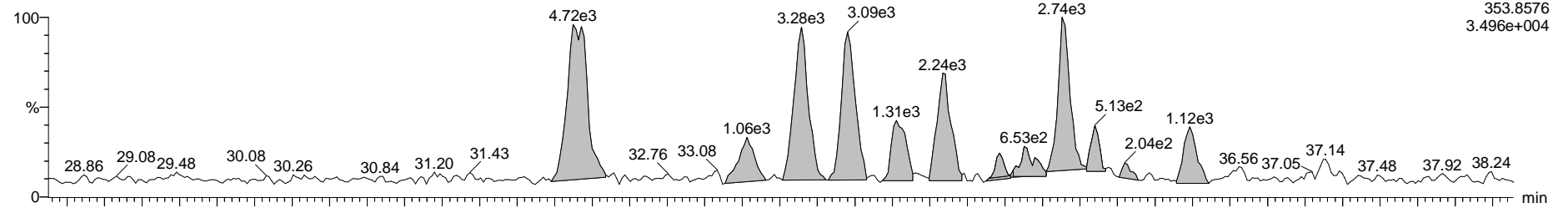


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

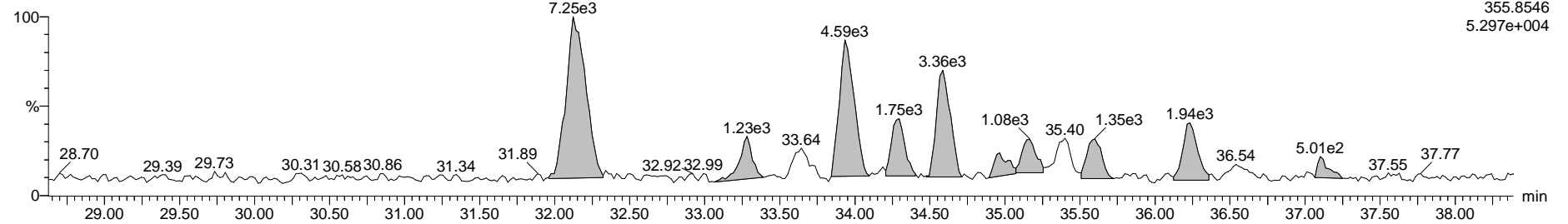
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Dioxins

DX9M_083S7 Smooth(SG,1x2)

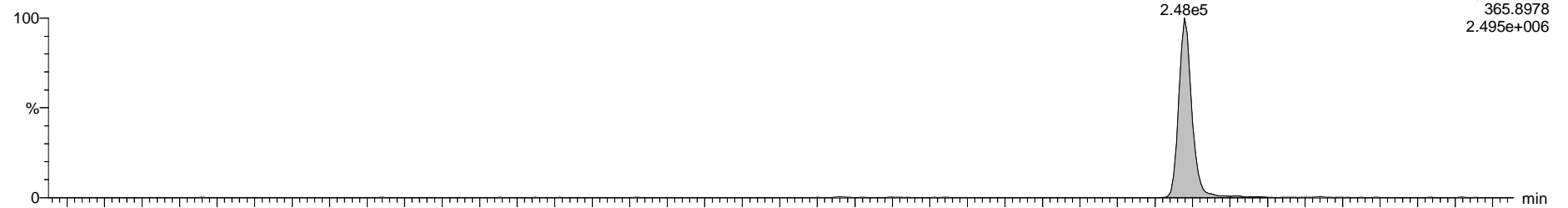


DX9M_083S7 Smooth(SG,1x2)

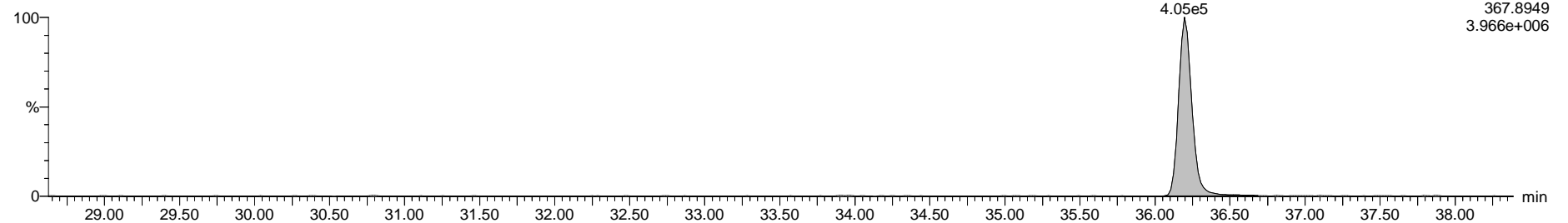


13C-1,2,3,7,8-PeCDD

DX9M_083S7 Smooth(SG,1x2)



DX9M_083S7 Smooth(SG,1x2)

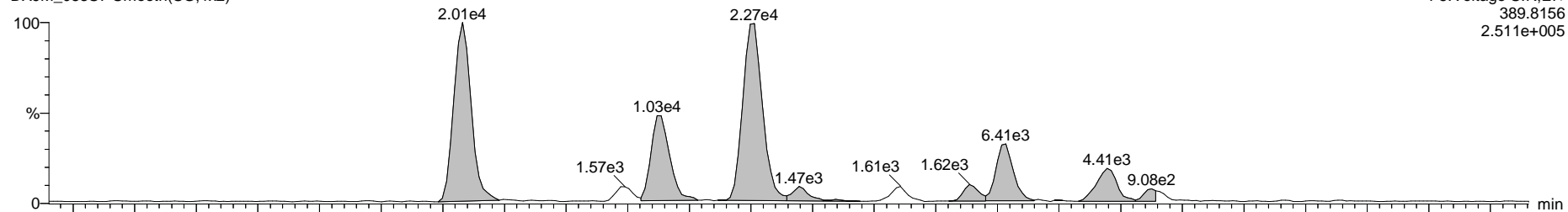


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

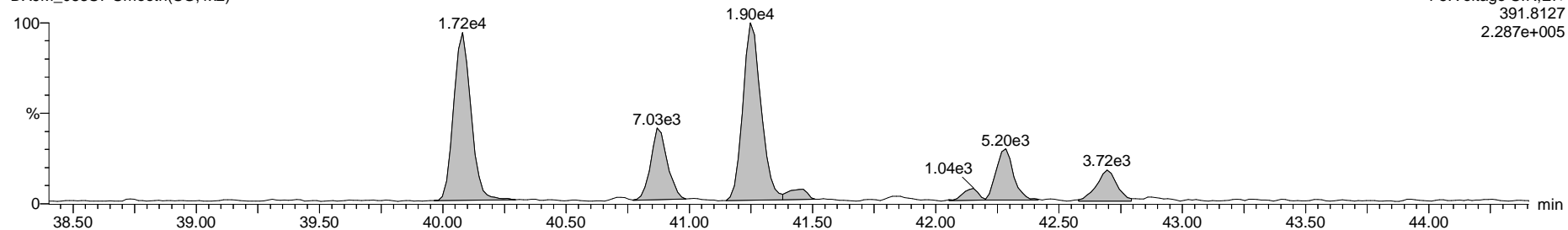
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S7 Smooth(SG,1x2)

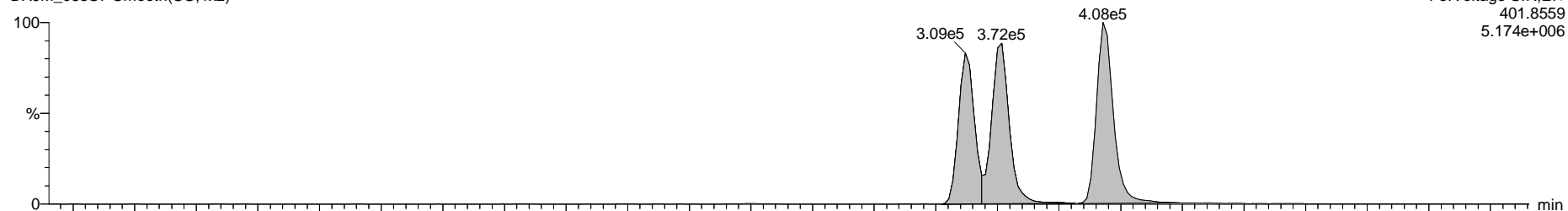


DX9M_083S7 Smooth(SG,1x2)

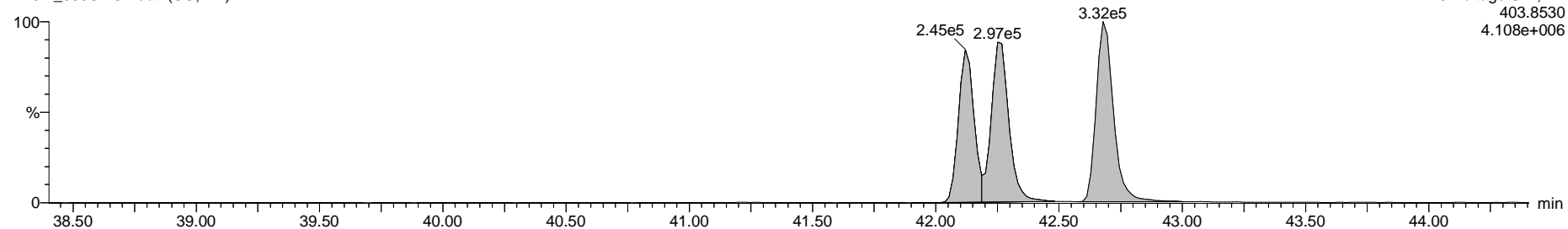


13C-1,2,3,4,7,8-HxCDD

DX9M_083S7 Smooth(SG,1x2)



DX9M_083S7 Smooth(SG,1x2)

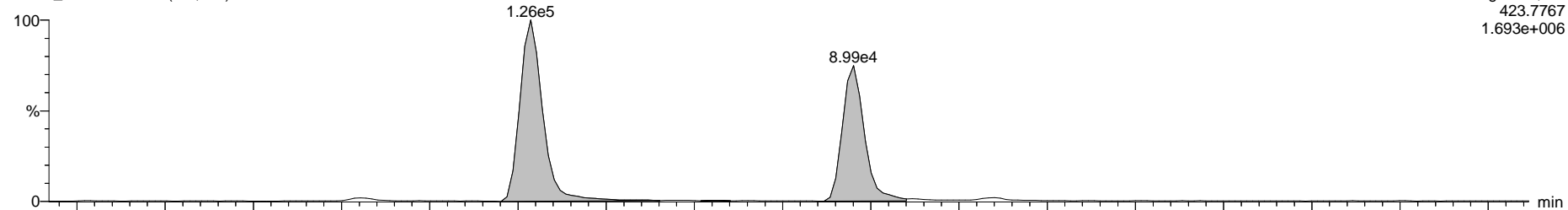


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

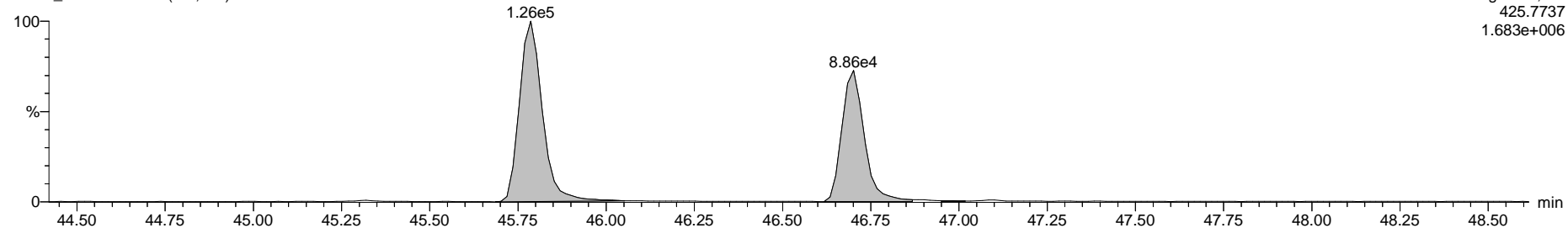
Total Hepta-Dioxins

DX9M_083S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
1.693e+006

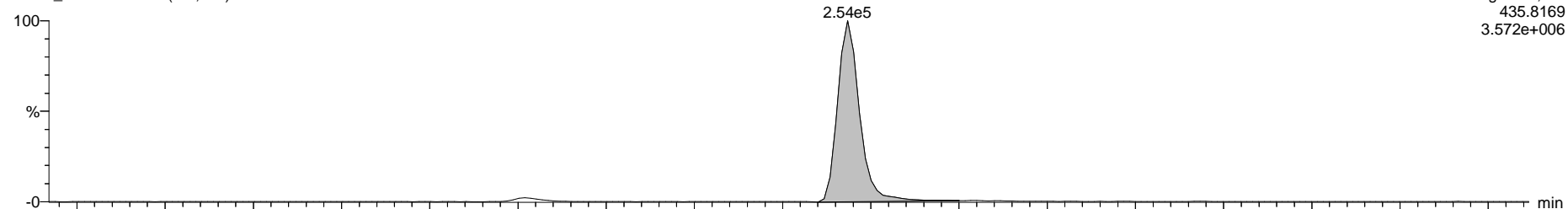
DX9M_083S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
1.683e+006

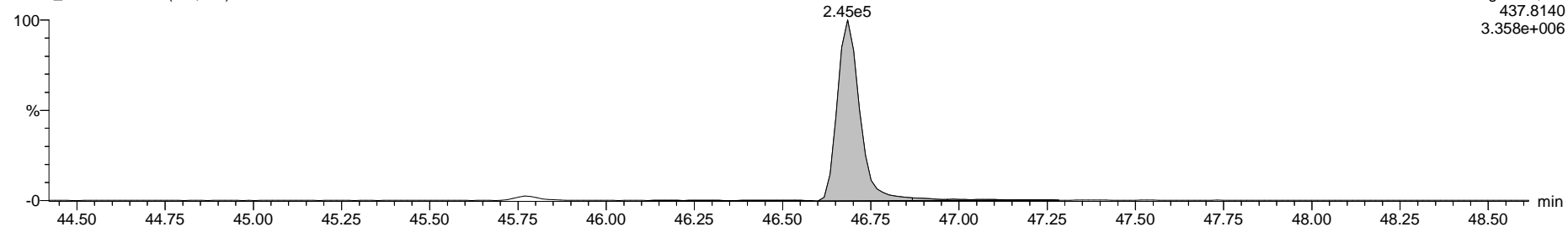
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
3.572e+006

DX9M_083S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
3.358e+006

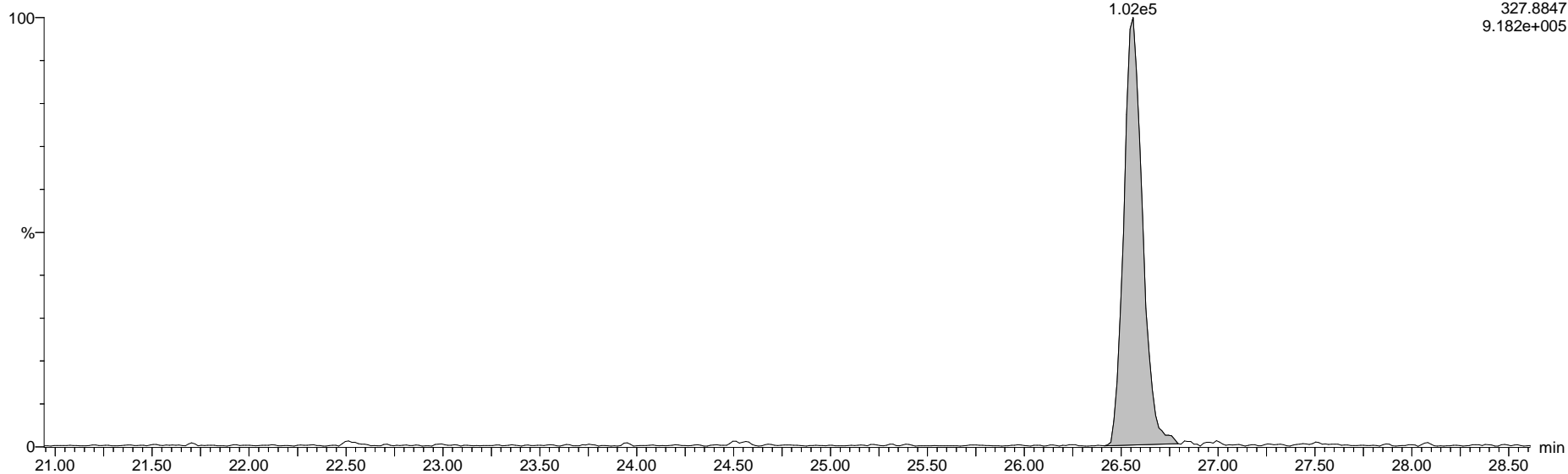


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

37Cl-2,3,7,8-TCDD

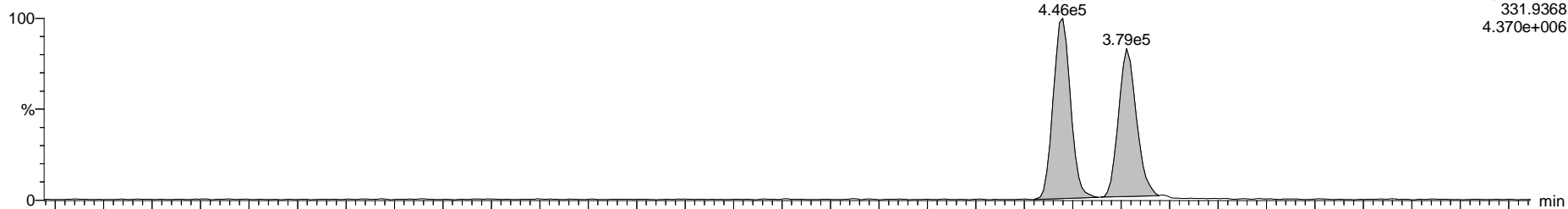
DX9M_083S7 Smooth(SG,1x2)



F3: Voltage SIR, EI+
327.8847
9.182e+005

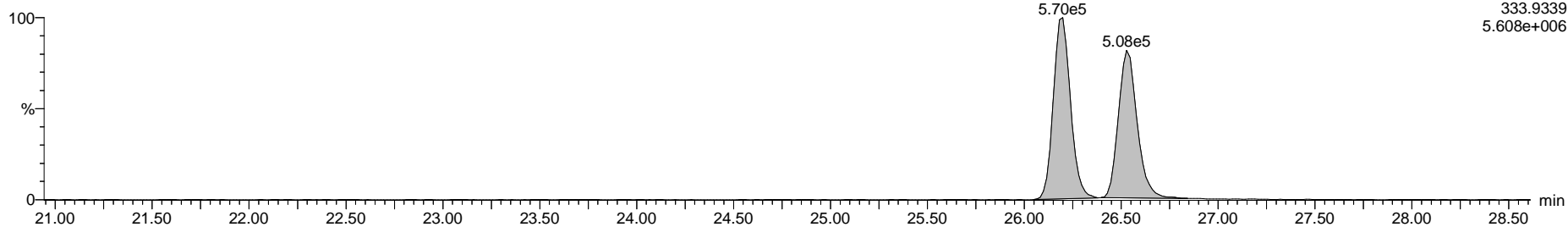
13C-1,2,3,4-TCDD

DX9M_083S7 Smooth(SG,1x2)



F3: Voltage SIR, EI+
331.9368
4.370e+006

DX9M_083S7 Smooth(SG,1x2)



F3: Voltage SIR, EI+
333.9339
5.608e+006

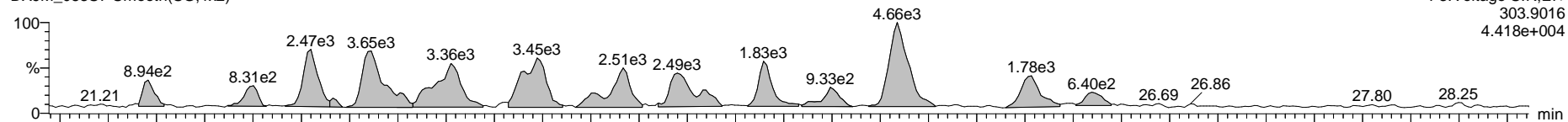


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

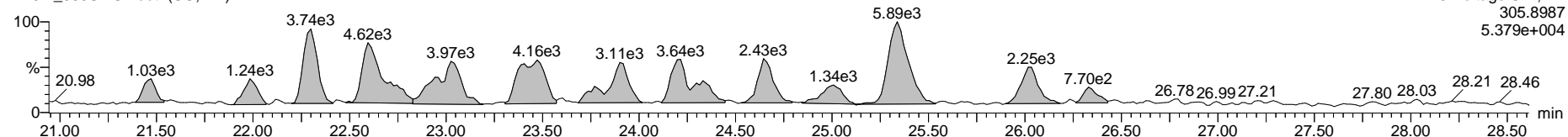
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S7 Smooth(SG,1x2)

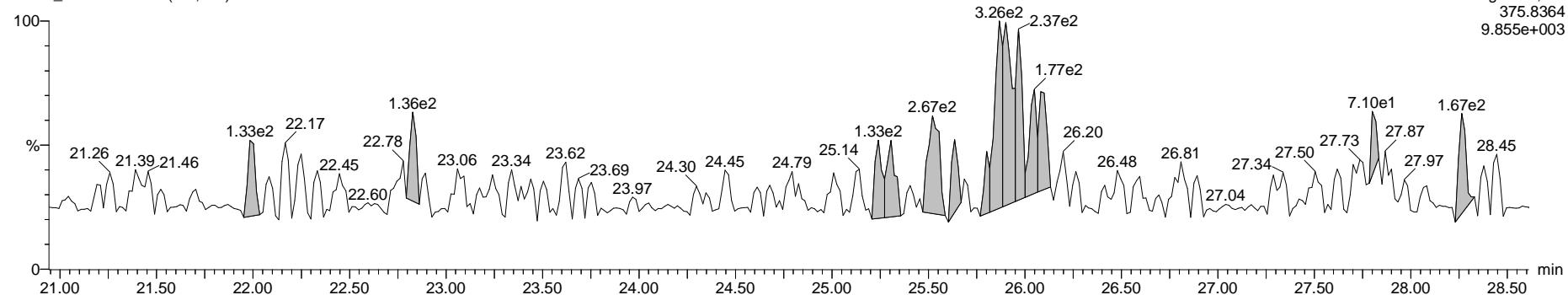


DX9M_083S7 Smooth(SG,1x2)



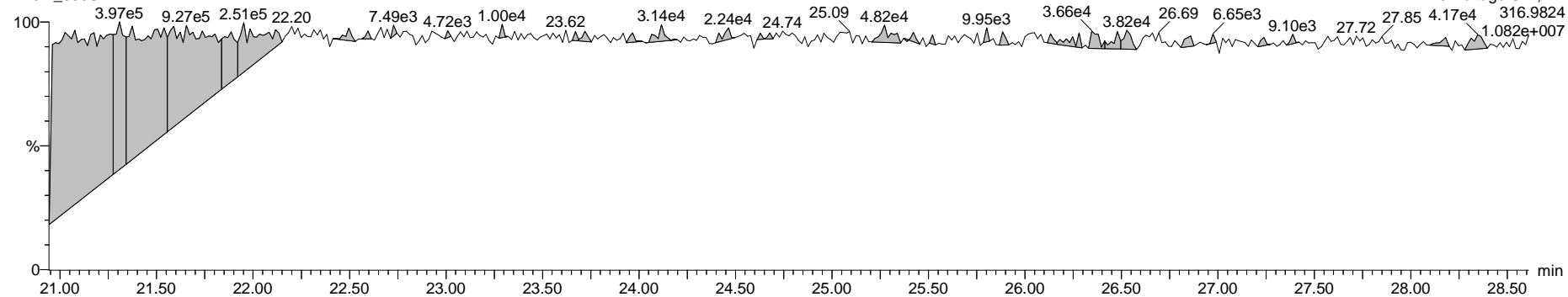
Hexa DPE

DX9M_083S7 Smooth(SG,1x2)



Tetra Lock

DX9M_083S7



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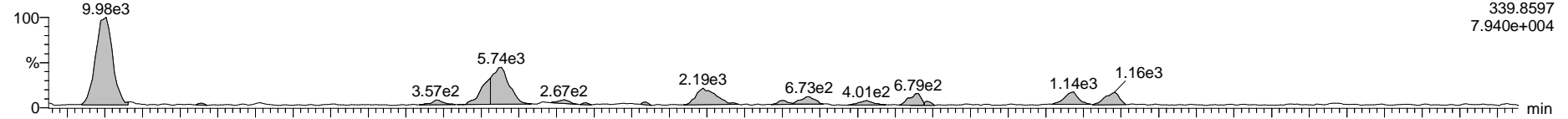


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

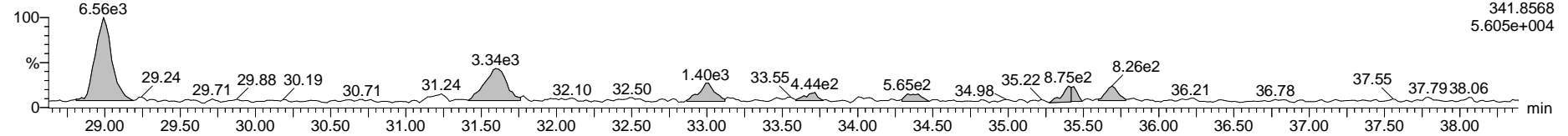
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S7 Smooth(SG,1x2)

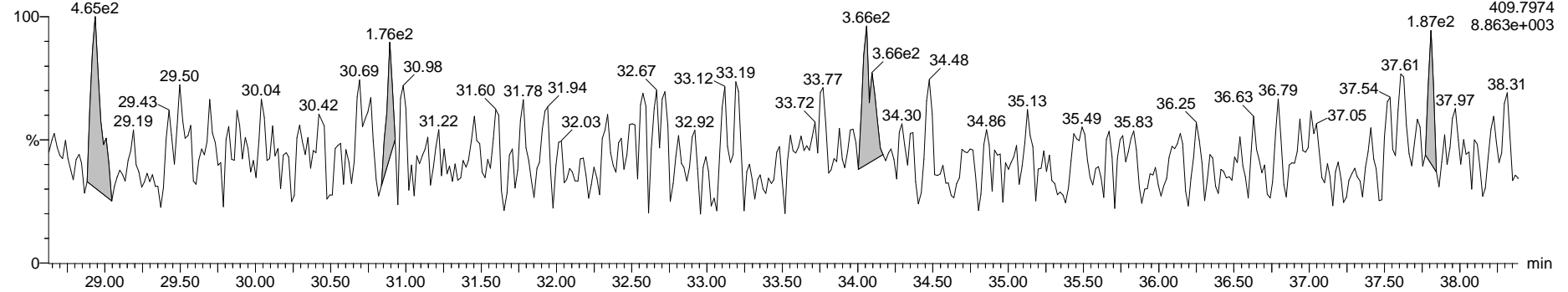


DX9M_083S7 Smooth(SG,1x2)



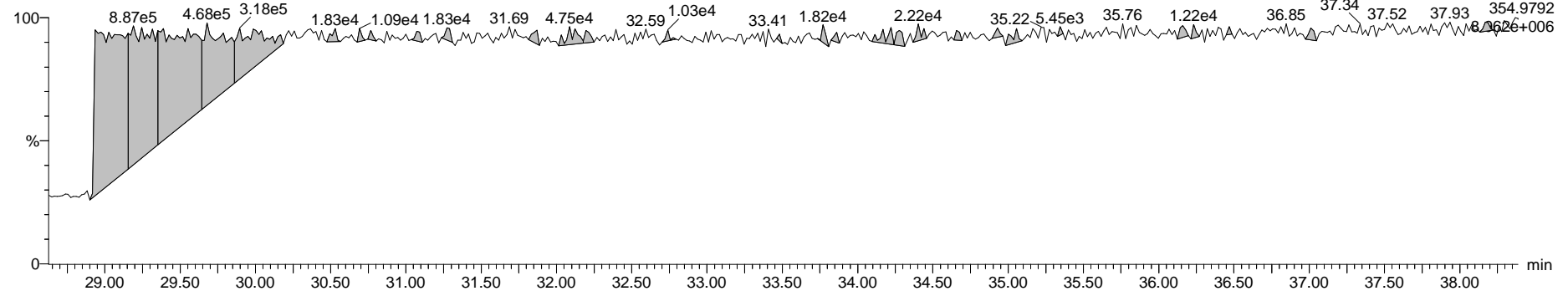
Hepta DPE

DX9M_083S7 Smooth(SG,1x2)



Penta Lock

DX9M_083S7

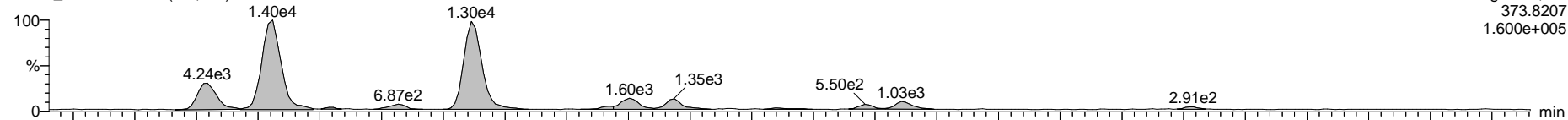


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

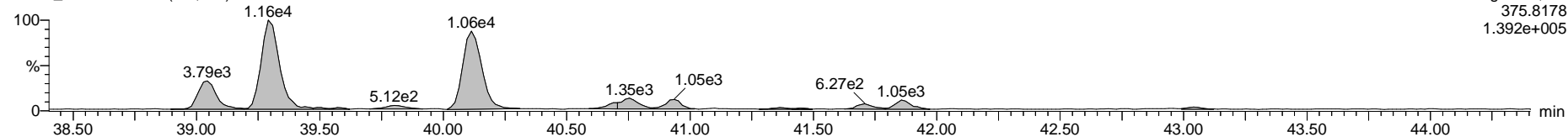
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S7 Smooth(SG,1x2)

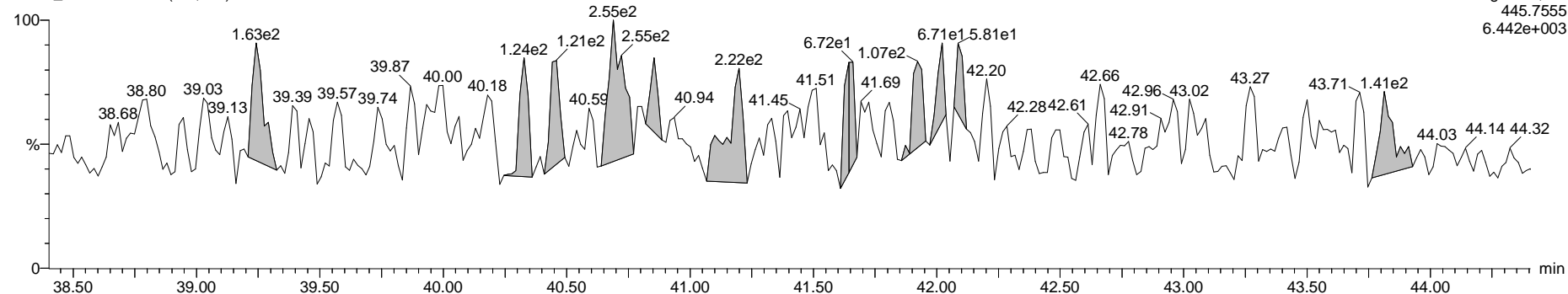


DX9M_083S7 Smooth(SG,1x2)



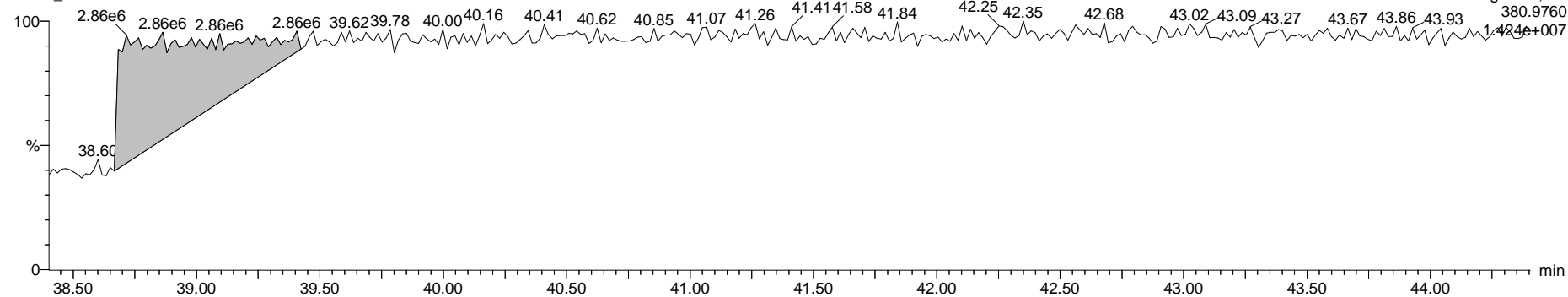
Octa DPE

DX9M_083S7 Smooth(SG,1x2)



Hexa Lock

DX9M_083S7

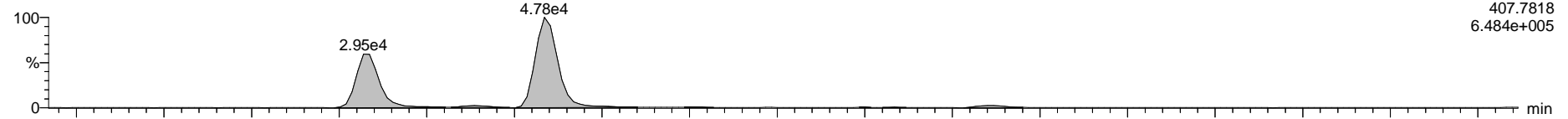


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

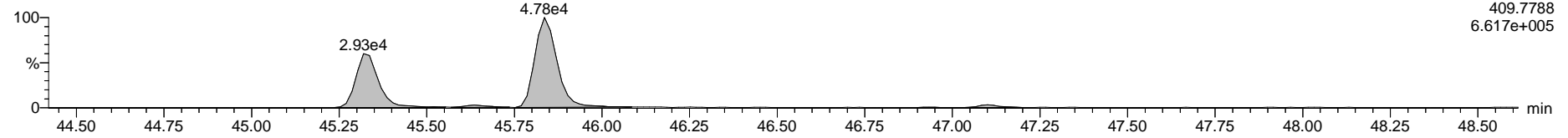
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

Total Hepta-Furans

DX9M_083S7 Smooth(SG,1x2)

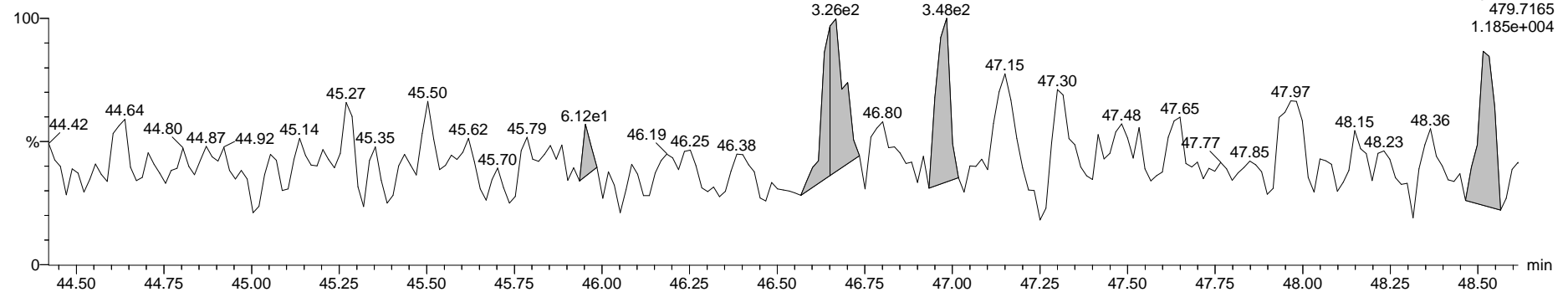


DX9M_083S7 Smooth(SG,1x2)



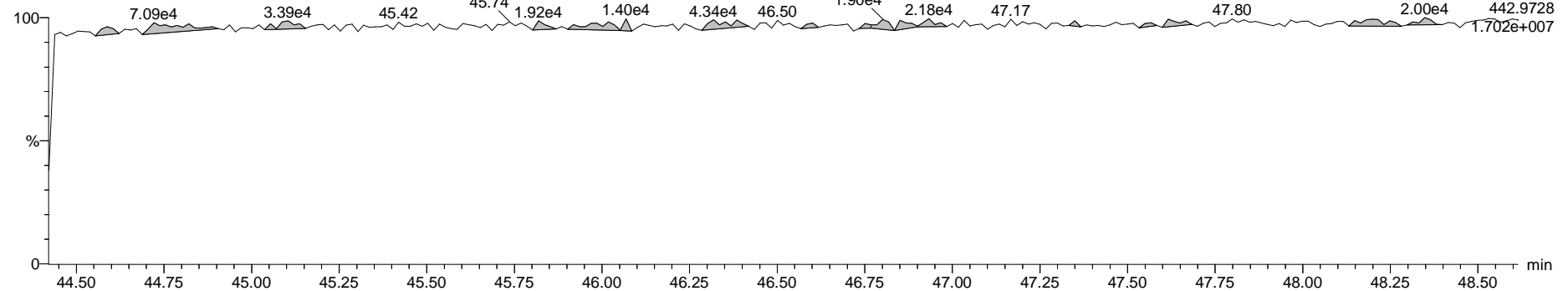
Nona DPE

DX9M_083S7 Smooth(SG,1x2)



Hepta Lock

DX9M_083S7



PV WL 14-JUL-2009

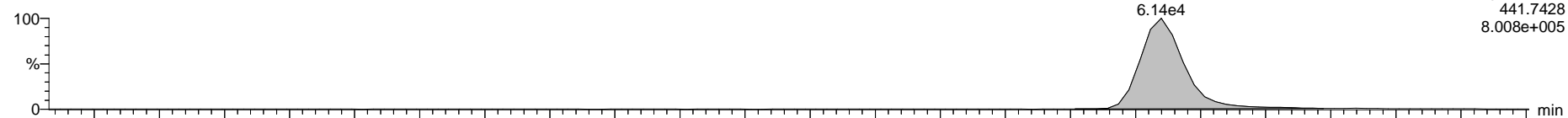


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

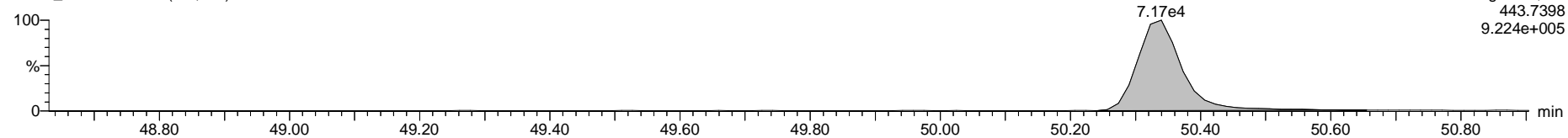
Name: DX9M_083S7, Date: 10-Jul-2009, Time: 13:57:05, ID: L12912-4,I,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S7 Smooth(SG,1x2)

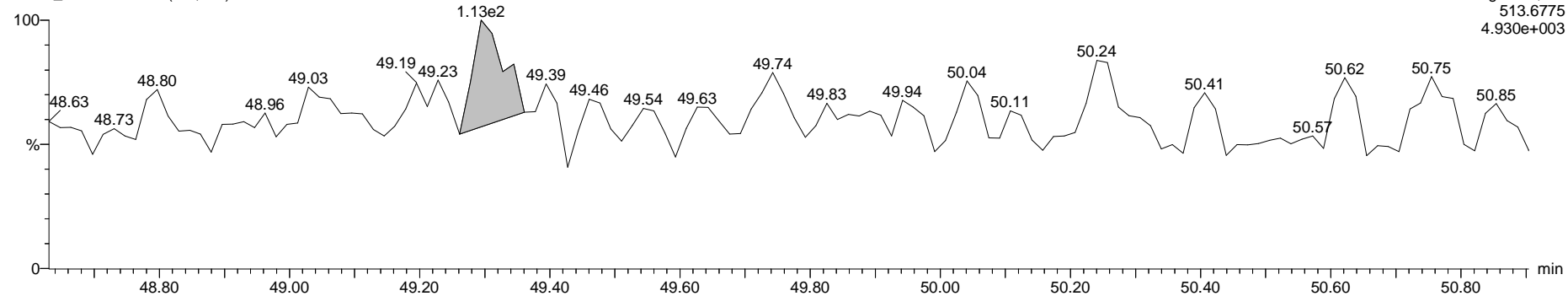


DX9M_083S7 Smooth(SG,1x2)



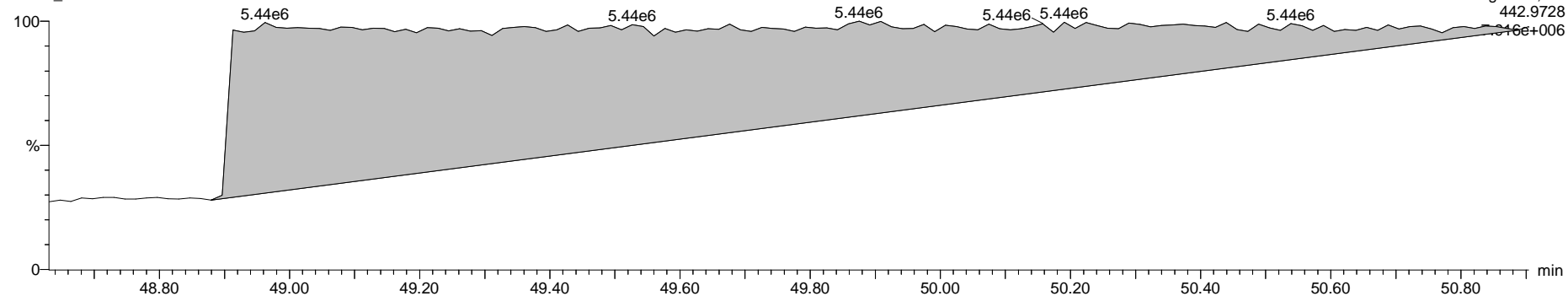
Deca DPE

DX9M_083S7 Smooth(SG,1x2)



Octa Lock

DX9M_083S7



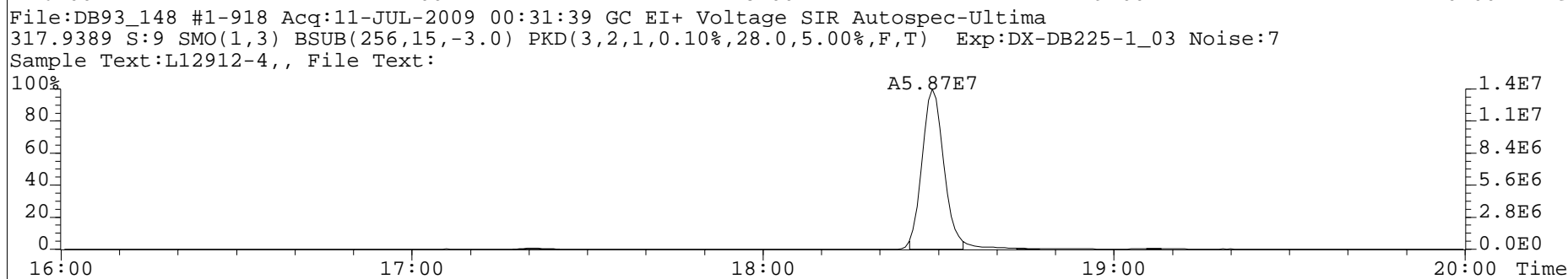
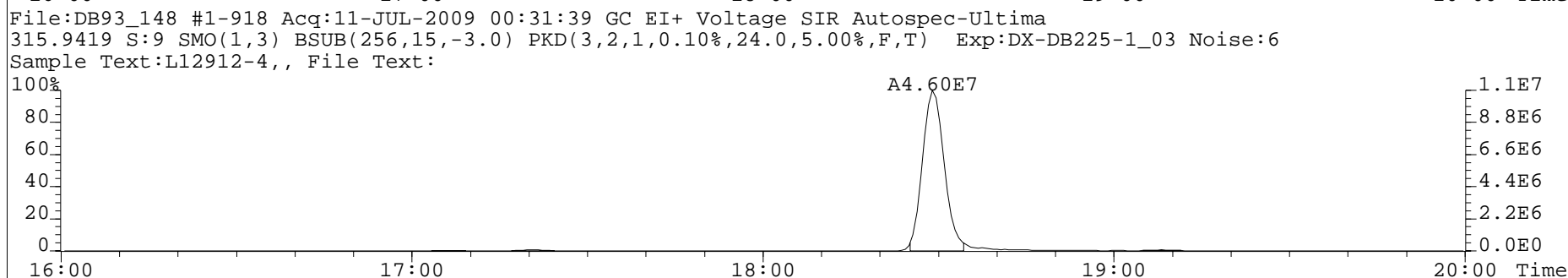
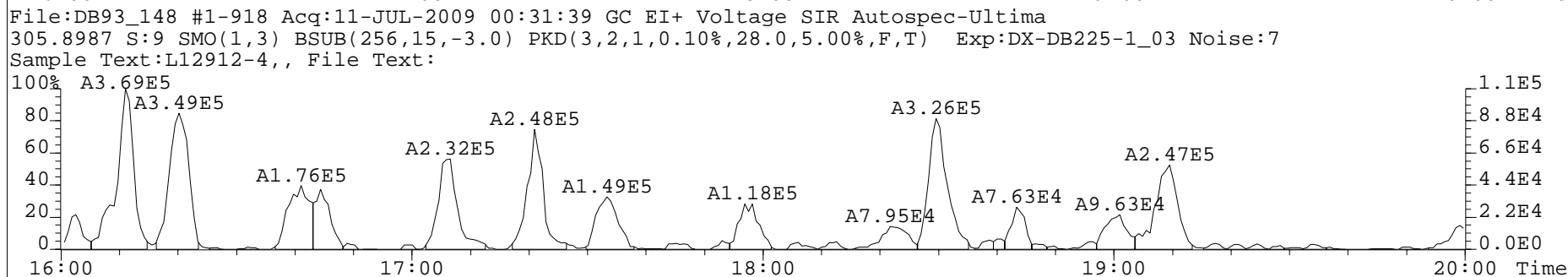
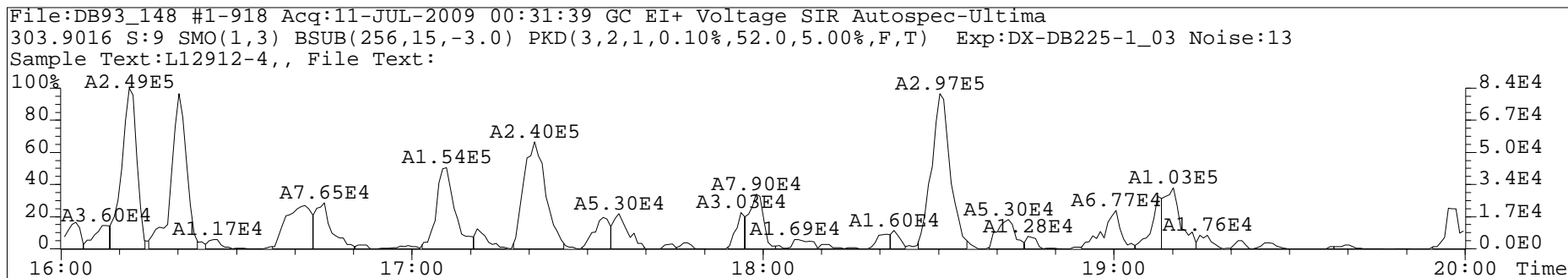
Run #13 Filename DB93_148 S: 9 I: 1 Acquired: 11-JUL-09 00:31:39 Processed: 15-JUL-09 13:58:41
 Run: db93_148-a Analyte: 1613B-db-s4 Cal: db93_146d> Results: db93_148-a Version: V3.6 6-JAN-2000 17:51:42
 Sample text: L12912-4,, Comments: 1,WG29271,2.0/20uL
 sample size: 10.310000 conc units: pg/g total toxicity: 0.15 F1: 1.0000 F2: 1.0000

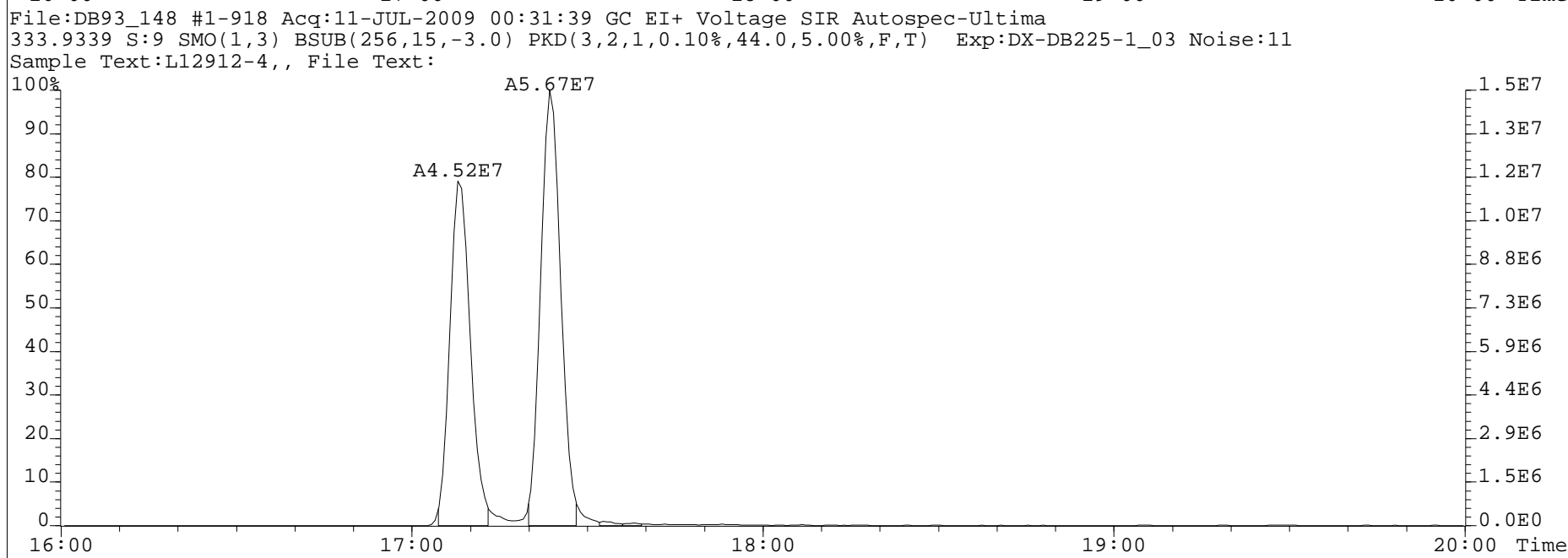
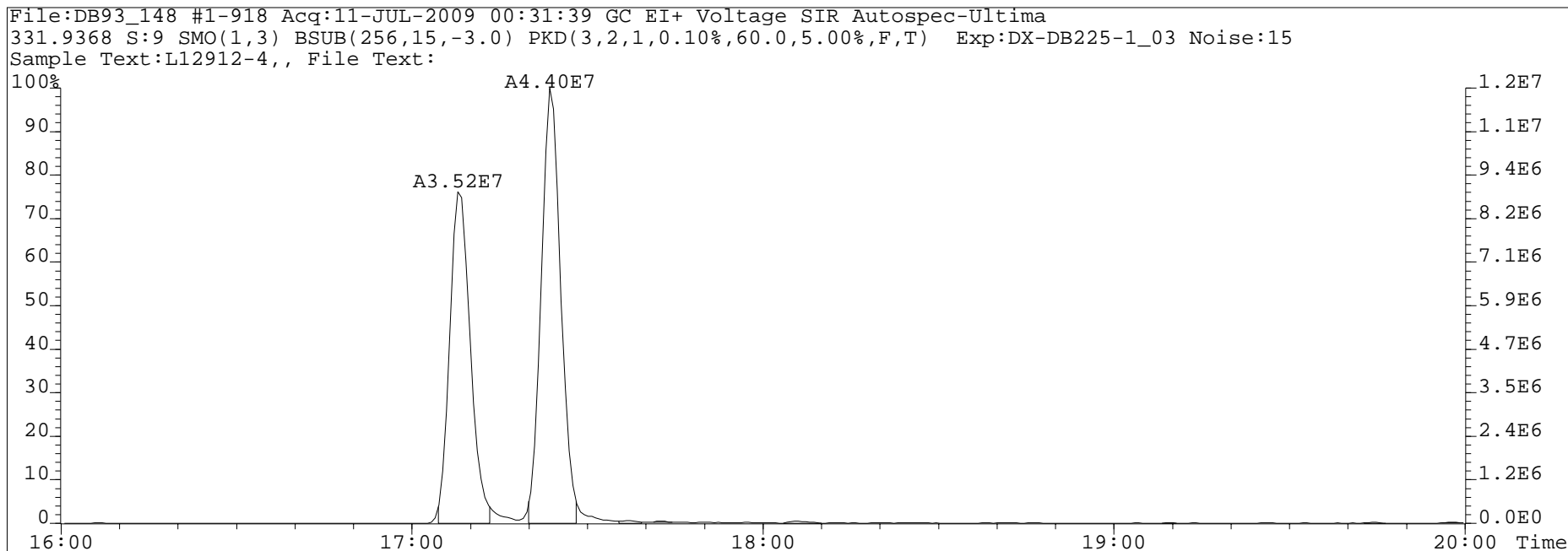
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	6.22e+05	0.91	n 18:30	1.470	0	0.0020	-	n
2 IS/RT	13C-2,3,7,8-TCDF	1	1.05e+08	0.78	y 18:29	138.289	-	0.0007	71.3	n
3 RS	13C-1,2,3,4-TCDD	1	1.01e+08	0.78	y 17:24	14.851	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

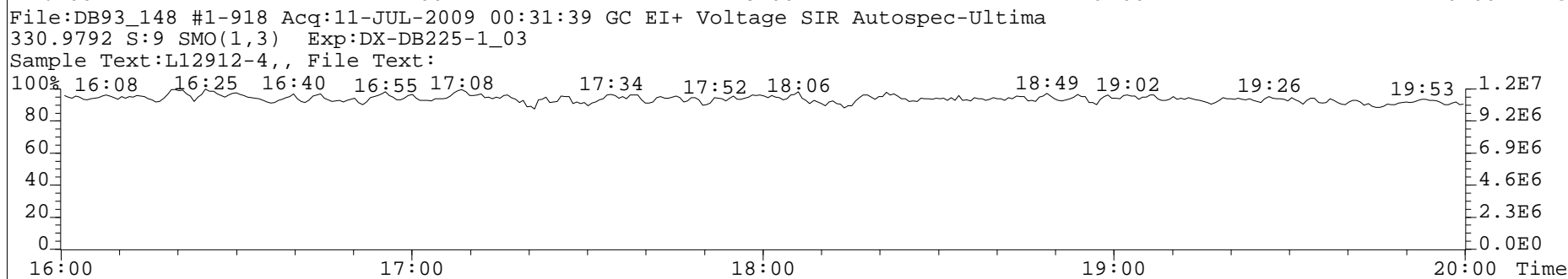
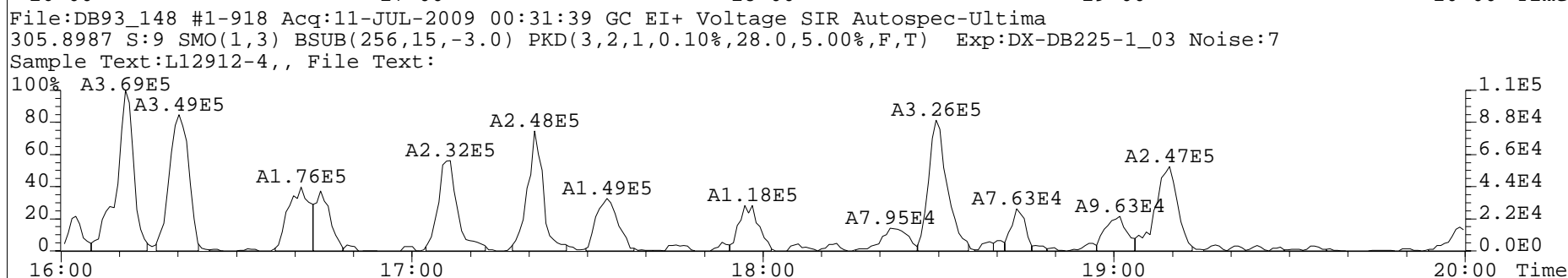
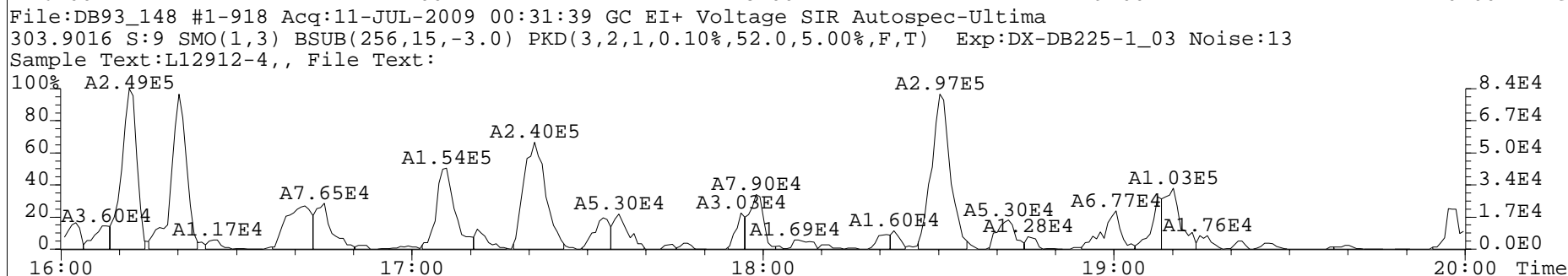
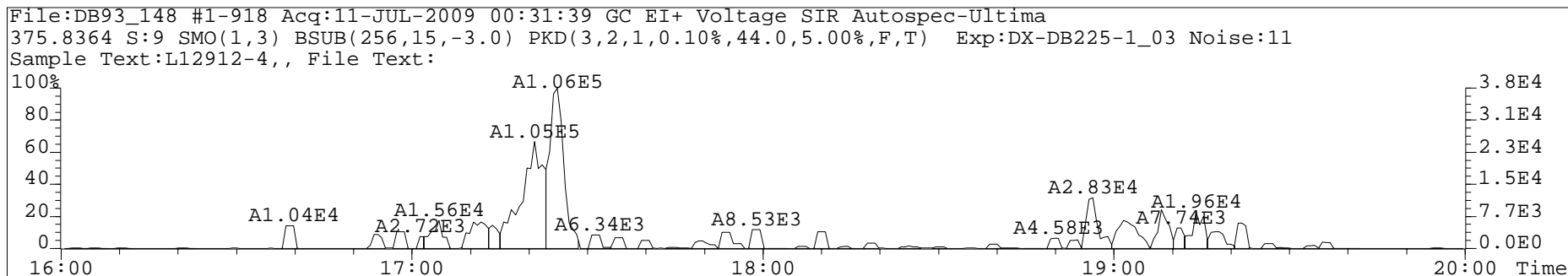
Sud BA
22-Jul-09

PV BY ml
15-July
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Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5-I,, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	tails?	RT	pg	DL	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	10.300	1.09e4	0.71	NO	25.34	2.175	0.1172		1.46e3	8.62e2
2	1,2,3,7,8-PeCDF	10.300	1.70e3	1.16	YES	33.66	0.412	0.1791		1.38e3	1.02e3
3	2,3,4,7,8-PeCDF	10.300	2.12e3	1.57	NO	35.40	0.547	0.1626		1.38e3	1.02e3
4	1,2,3,4,7,8-HxCDF	10.300	2.73e3	1.12	NO	40.74	0.834	0.0848		5.12e2	8.87e2
5	1,2,3,6,7,8-HxCDF	10.300	2.02e3	1.19	NO	40.92	0.543	0.0786		5.12e2	8.87e2
6	2,3,4,6,7,8-HxCDF	10.300	1.62e3	1.28	NO	41.86	0.531	0.0919		5.12e2	8.87e2
7	1,2,3,7,8,9-HxCDF	10.300	1.58e2	1.36	NO	42.89	0.061	0.1105		5.12e2	8.87e2
8	1,2,3,4,6,7,8-HpCDF	10.300	3.49e4	0.98	NO	45.32	12.739	0.0990		8.55e2	6.41e2
9	1,2,3,4,7,8,9-HpCDF	10.300	1.75e3	0.93	NO	47.10	0.769	0.1186		8.55e2	6.41e2
10	OCDF	10.300	7.03e4	0.88	NO	50.32	33.905	0.1843		1.21e3	7.93e2
11	2,3,7,8-TCDD	10.300	1.16e3	0.88	NO	26.48	0.254	0.1284		1.27e3	8.89e2
12	1,2,3,7,8-PeCDD	10.300	2.36e3	0.65	NO	36.23	0.716	0.2002		1.51e3	1.09e3
13	1,2,3,4,7,8-HxCDD	10.300	2.37e3	1.13	NO	42.12	0.873	0.1159		1.05e3	5.95e2
14	1,2,3,6,7,8-HxCDD	10.300	9.65e3	1.17	NO	42.27	3.336	0.1123		1.05e3	5.95e2
15	1,2,3,7,8,9-HxCDD	10.300	6.89e3	1.14	NO	42.68	2.507	0.1163		1.05e3	5.95e2
16	1,2,3,4,6,7,8-HpCDD	10.300	1.10e5	1.03	NO	46.68	40.824	0.1464		8.53e2	1.23e3
17	OCDD	10.300	6.06e5	0.87	NO	50.24	270.595	0.1079		5.61e2	7.08e2
18	13C-2,3,7,8-TCDF	10.300	1.28e6	0.76	NO	25.29	151.250	0.2206	77.9	4.29e3	3.12e3
19	13C-1,2,3,7,8-PeCDF	10.300	9.58e5	1.54	NO	33.63	162.700	0.2752	83.8	2.91e3	3.54e3
20	13C-2,3,4,7,8-PeCDF	10.300	8.88e5	1.56	NO	35.38	155.087	0.2828	79.9	2.91e3	3.54e3
21	13C-1,2,3,4,7,8-HxCDF	10.300	6.64e5	0.50	NO	40.72	146.436	0.2052	75.4	3.21e3	1.52e3
22	13C-1,2,3,6,7,8-HxCDF	10.300	7.90e5	0.52	NO	40.90	149.875	0.1763	77.2	3.21e3	1.52e3
23	13C-2,3,4,6,7,8-HxCDF	10.300	6.83e5	0.50	NO	41.84	141.266	0.1922	72.8	3.21e3	1.52e3
24	13C-1,2,3,7,8,9-HxCDF	10.300	6.25e5	0.51	NO	42.88	138.422	0.2060	71.3	3.21e3	1.52e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.300	5.04e5	0.45	NO	45.30	138.806	0.2289	71.5	2.23e3	2.00e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.300	4.62e5	0.43	NO	47.08	138.133	0.2486	71.1	2.23e3	2.00e3
27	13C-2,3,7,8-TCDD	10.300	9.87e5	0.77	NO	26.51	152.240	0.4200	78.4	3.17e3	7.67e3
28	13C-1,2,3,7,8-PeCDD	10.300	7.31e5	0.62	NO	36.20	174.096	0.2578	89.7	2.92e3	1.39e3
29	13C-1,2,3,4,7,8-HxCDD	10.300	6.44e5	1.26	NO	42.12	148.483	0.1914	76.5	2.13e3	2.09e3
30	13C-1,2,3,6,7,8-HxCDD	10.300	7.40e5	1.24	NO	42.25	146.250	0.1639	75.3	2.13e3	2.09e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.300	5.41e5	1.04	NO	46.67	142.567	0.1737	73.4	1.19e3	2.17e3
32	13C-OCDD	10.300	9.37e5	0.87	NO	50.22	217.235	0.2907	55.9	4.76e3	1.63e3
33	13C-1,2,3,4-TCDD	10.300	1.15e6	0.79	NO	26.18	6.328	0.0149	3.3	3.17e3	7.67e3
34	13C-1,2,3,7,8,9-HxCDD	10.300	8.63e5	1.22	NO	42.68	7.444	0.0072	3.8	2.13e3	2.09e3
35	37Cl-2,3,7,8-TCDD	10.300	1.16e5			26.56	18.770	0.0743	96.7		1.89e3
36	Total Tetra-Furans	10.300				<i>12.878</i>	42.881	0.1172			8.62e2
37	Total Tetra-Dioxins	10.300				<i>12.271</i>	43.766	0.1284			8.89e2
38	Total Penta-Furans	10.300				<i>6.067</i>	7.177	0.1725 <i>0.1791</i>			1.02e3
39	Total Penta-Dioxins	10.300				<i>11.289</i>	12.428	0.2002			1.09e3
40	Total Hexa-Furans	10.300				<i>12.955</i>	13.097	0.0834 <i>0.1105</i>			8.87e2
41	Total Hexa-Dioxins	10.300					44.040	0.1097 <i>0.1163</i>			5.95e2
42	Total Hepta-Furans	10.300					34.166	0.1031 <i>0.1186</i>			6.41e2
43	Total Hepta-Dioxins	10.300					105.764	0.1464			1.23e3
44	Hexa DPE	1.000	1.24e3			25.92					1.07e3
45	Hepta DPE	1.000	9.11e1			38.31					1.79e3
46	Octa DPE	1.000	1.34e2			40.67					1.35e3
47	Nona DPE	1.000	5.45e2			46.67					2.13e3
48	Deca DPE	1.000	7.38e1			50.39					9.47e2
49	Tetra Lock	1.000	4.63e4			27.80					4.90e5
50	Penta Lock	1.000	1.20e6			30.31					8.50e5
51	Hexa Lock	1.000	1.85e6			39.01					1.37e6
52	Hepta Lock	1.000	3.13e4			46.22					4.14e5
53	Octa Lock	1.000	2.95e6			49.01					1.98e6

PV WL 14-JUL-2009

su'd BAA 22-Jul-09



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	24.18	0.728	NO	1.280
2	23.89	0.768	NO	1.087
3	23.47	0.710	NO	1.510
4	23.03	0.697	NO	1.249
5	22.60	0.680	NO	1.656
6	22.28	0.834	NO	1.059
7	21.99	0.666	NO	0.328
8	21.47	0.661	NO	0.386
9	26.36	0.736	NO	0.284
10	26.02	0.744	NO	0.695
11	25.34	0.715	NO	2.175
12	24.98	0.728	NO	0.353
13	24.65	0.663	NO	0.816

cg

Tetradioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	23.42	0.701	NO	3.430
2	22.99	0.780	NO	4.937
3	26.40	0.829	NO	0.987
4	26.21	0.701	NO	1.226
5	25.70	0.993	YES	0.207
6	25.29	2.673	YES	0.914
7	25.14	0.871	NO	0.141
8	24.73	0.744	NO	1.296
9	23.80	1.054	YES	0.375
10	26.48	0.884	NO	0.254

cg

Pentafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	28.97	1.564	NO	2.768
2	35.69	1.108	YES	0.389
3	35.40	1.566	NO	0.547
4	34.35	1.784	YES	0.309
5	33.66	1.156	YES	0.412
6	32.99	1.599	NO	0.753
7	31.62	1.737	NO	1.999

cg

Pentadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	34.57	0.606	NO	2.266
2	34.28	0.692	NO	0.989
3	33.93	0.622	NO	2.706
4	33.26	0.606	NO	0.713
5	32.12	0.580	NO	3.899
6	36.23	0.651	NO	0.716
7	35.58	0.838	YES	0.839

cg

PV WL 14-JUL-2009



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,1, Description: 1,WG29271,1.0/20uL

Hexafurans

	RT	1 st Ratio (A:	Fails?	pg
1	41.71	1.099	NO	0.340
2	40.92	1.192	NO	0.543
3	40.74	1.116	NO	0.834
4	40.11	1.166	NO	4.008
5	39.80	1.165	NO	0.368
6	39.29	1.120	NO	4.790
7	39.03	1.163	NO	1.541
8	43.02	1.982	YES	0.081
9	41.86	1.280	NO	0.531
10	42.89	1.361	NO	0.061

cg

Hexadioxins

	RT	1 st Ratio (A:	Fails?	pg
1	42.68	1.135	NO	2.507
2	42.27	1.171	NO	3.336
3	42.12	1.126	NO	0.873
4	41.43	1.357	NO	0.908
5	41.25	1.235	NO	14.248
6	40.87	1.337	NO	10.766
7	40.06	1.162	NO	11.402

cg

Heptafurans

	RT	1 st Ratio (A:	Fails?	pg
1	47.10	0.934	NO	0.769
2	45.84	0.952	NO	19.785
3	45.64	0.960	NO	0.873
4	45.32	0.985	NO	12.739

cg

Heptadioxins

	RT	1 st Ratio (A:	Fails?	pg
1	45.77	1.015	NO	64.940
2	46.68	1.029	NO	40.824

cg

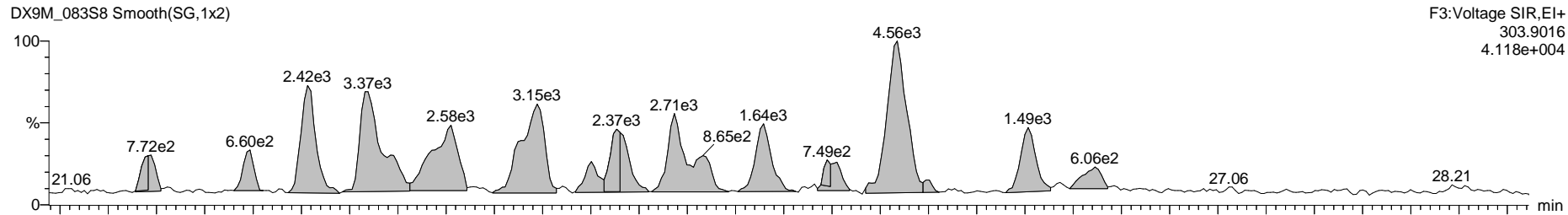
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

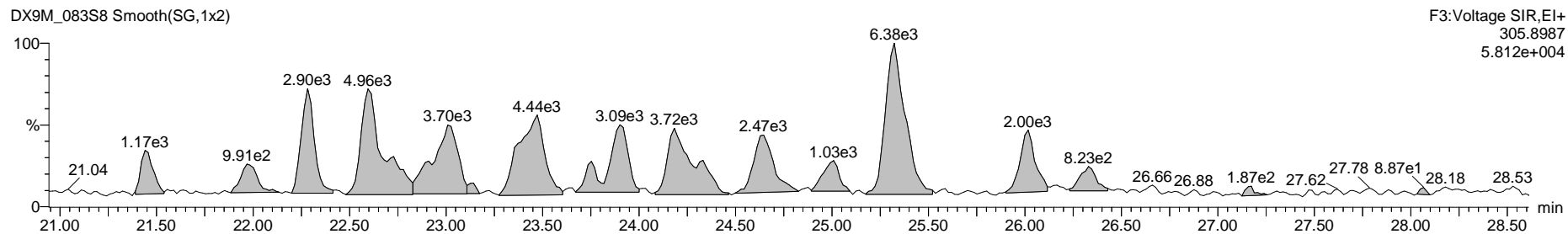
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Total Tetra-Furans

DX9M_083S8 Smooth(SG,1x2)

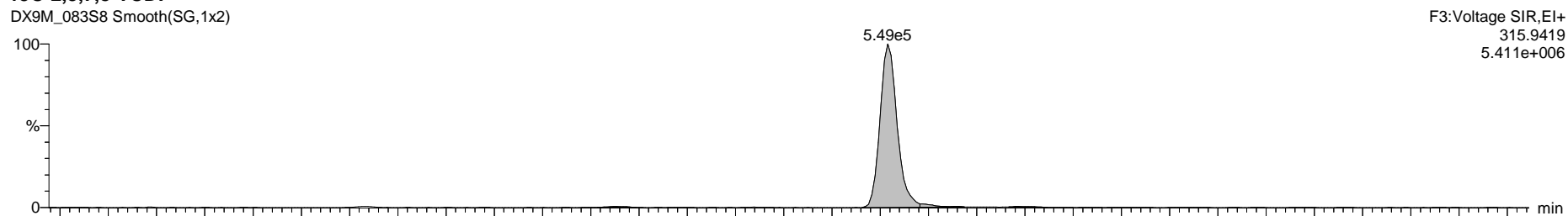


DX9M_083S8 Smooth(SG,1x2)

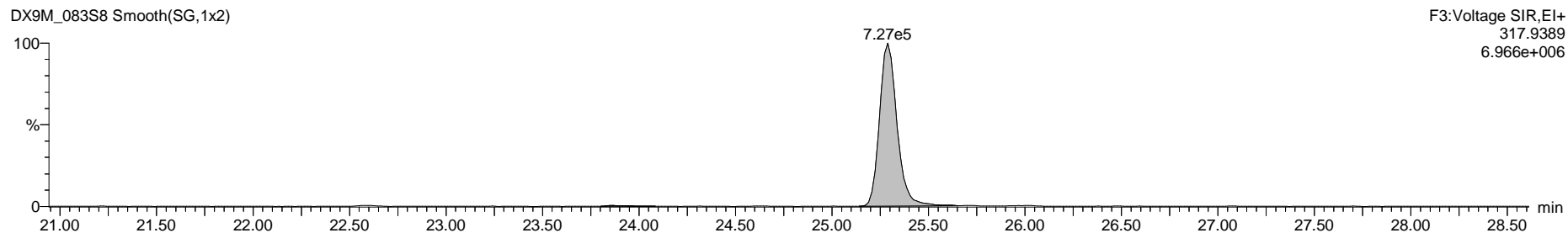


13C-2,3,7,8-TCDF

DX9M_083S8 Smooth(SG,1x2)



DX9M_083S8 Smooth(SG,1x2)

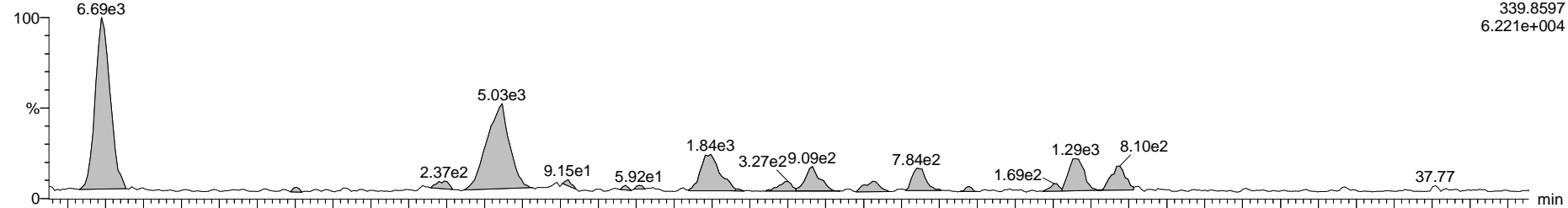


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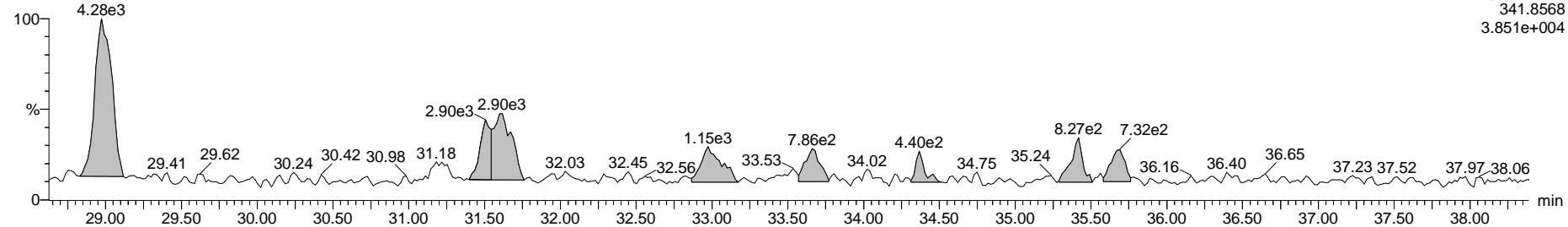
Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S8 Smooth(SG,1x2)

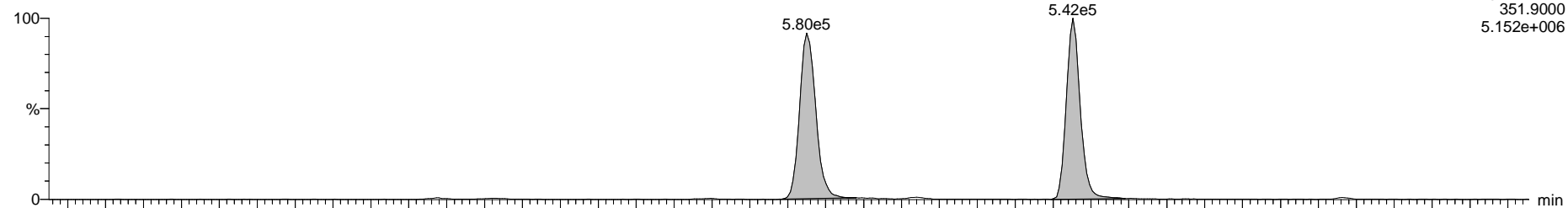


DX9M_083S8 Smooth(SG,1x2)

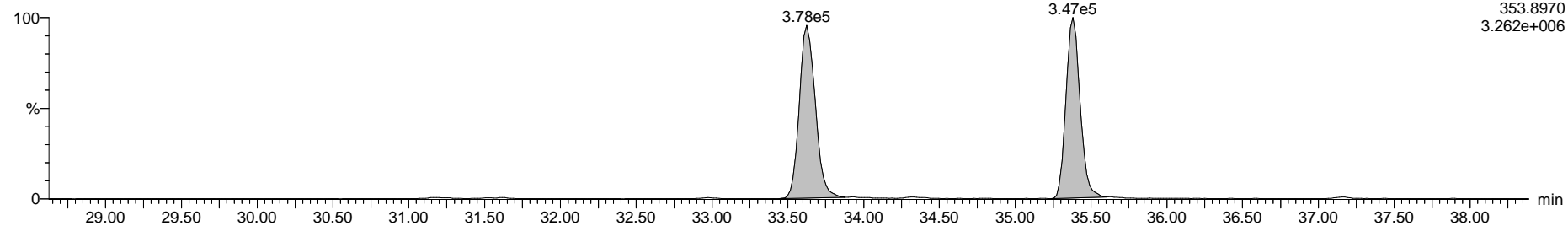


13C-1,2,3,7,8-PeCDF

DX9M_083S8 Smooth(SG,1x2)



DX9M_083S8 Smooth(SG,1x2)



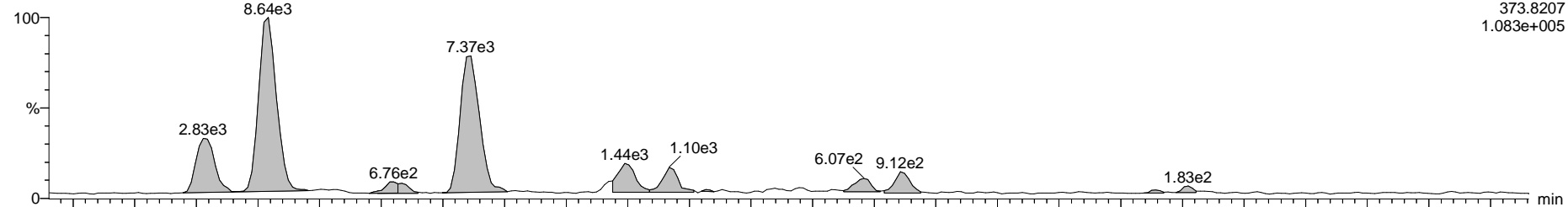
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Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

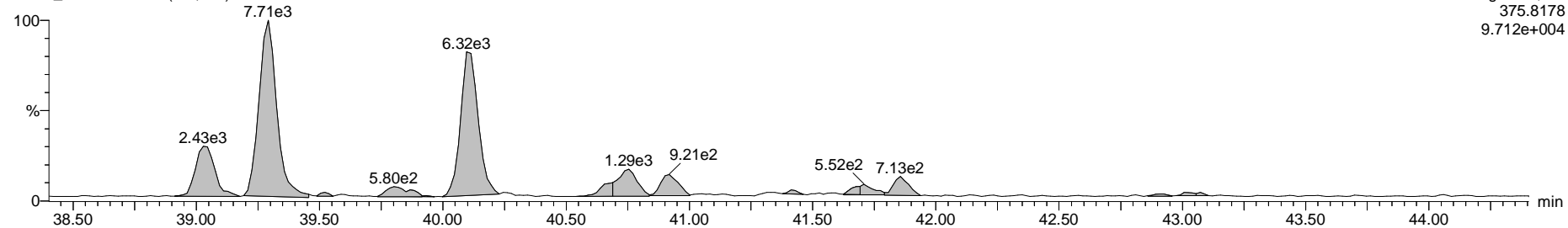
DX9M_083S8 Smooth(SG,1x2)

F5:Voltage SIR,EI+
373.8207
1.083e+005



DX9M_083S8 Smooth(SG,1x2)

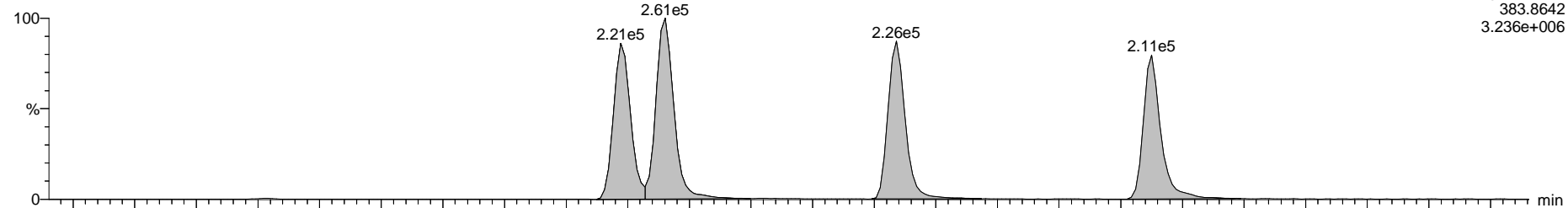
F5:Voltage SIR,EI+
375.8178
9.712e+004



13C-1,2,3,4,7,8-HxCDF

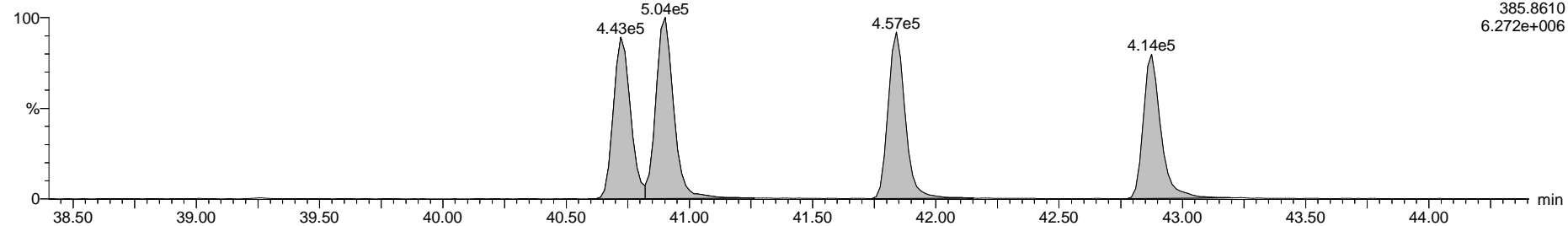
DX9M_083S8 Smooth(SG,1x2)

F5:Voltage SIR,EI+
383.8642
3.236e+006



DX9M_083S8 Smooth(SG,1x2)

F5:Voltage SIR,EI+
385.8610
6.272e+006

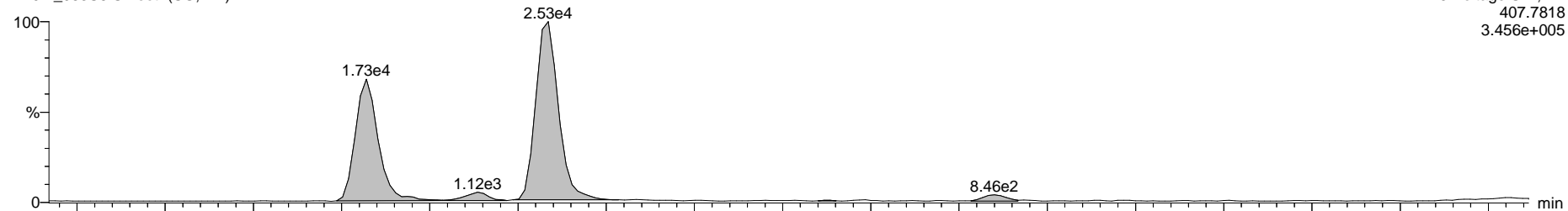


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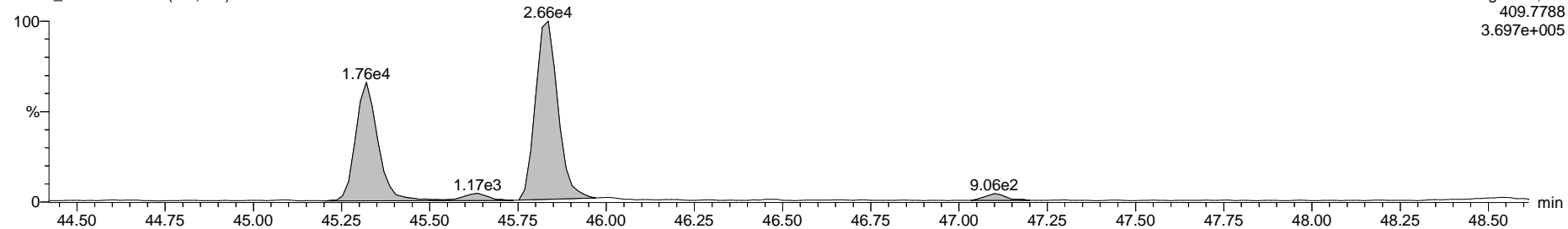
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Total Hepta-Furans

DX9M_083S8 Smooth(SG,1x2)

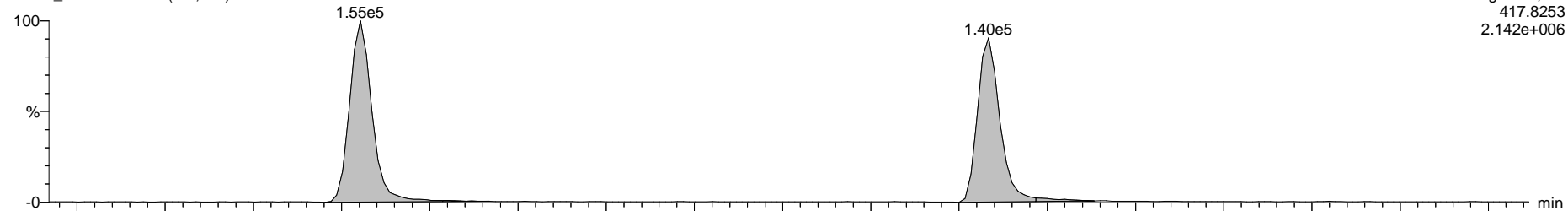


DX9M_083S8 Smooth(SG,1x2)

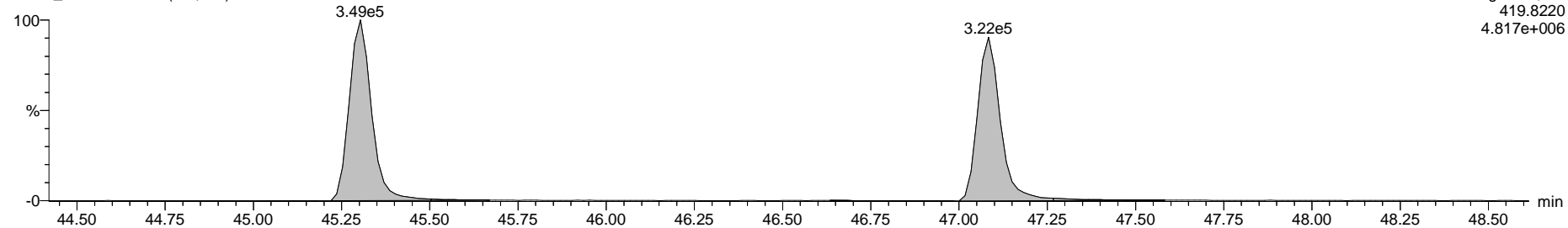


13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S8 Smooth(SG,1x2)



DX9M_083S8 Smooth(SG,1x2)



PV WL 14-JUL-2009

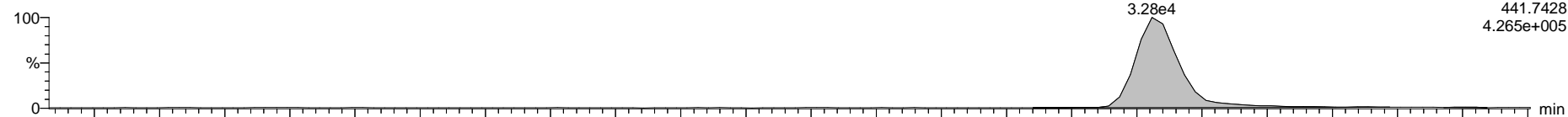


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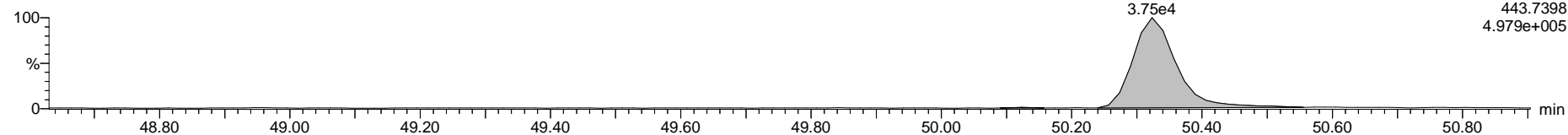
OCDF

DX9M_083S8 Smooth(SG,1x2)



F7:Voltage SIR,EI+
441.7428
4.265e+005

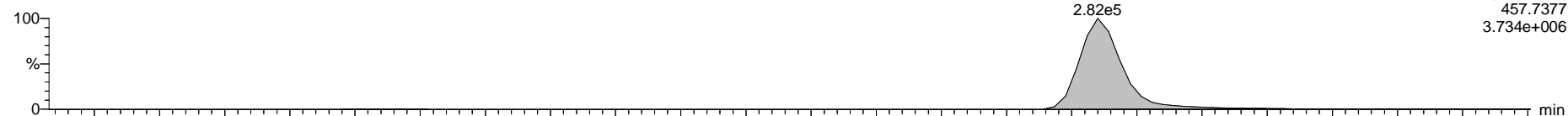
DX9M_083S8 Smooth(SG,1x2)



F7:Voltage SIR,EI+
443.7398
4.979e+005

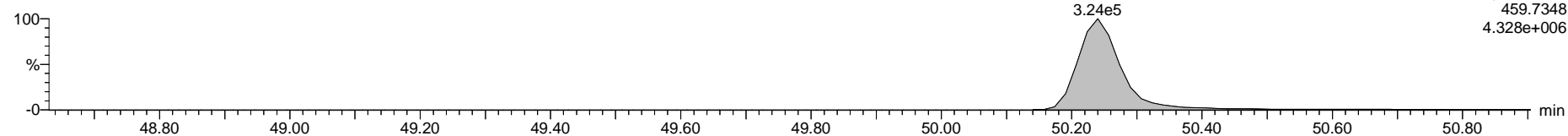
OCDD

DX9M_083S8 Smooth(SG,1x2)



F7:Voltage SIR,EI+
457.7377
3.734e+006

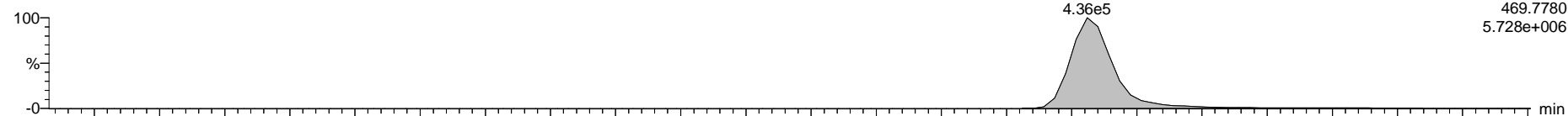
DX9M_083S8 Smooth(SG,1x2)



F7:Voltage SIR,EI+
459.7348
4.328e+006

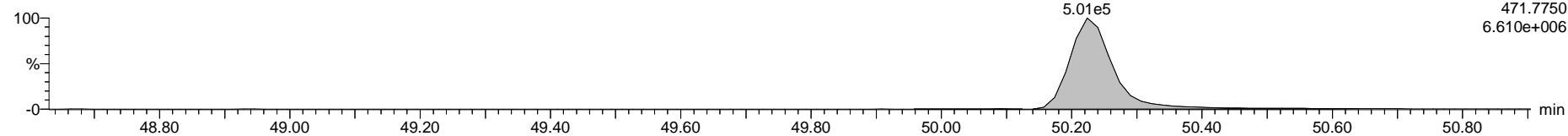
13C-OCDD

DX9M_083S8 Smooth(SG,1x2)



F7:Voltage SIR,EI+
469.7780
5.728e+006

DX9M_083S8 Smooth(SG,1x2)



F7:Voltage SIR,EI+
471.7750
6.610e+006

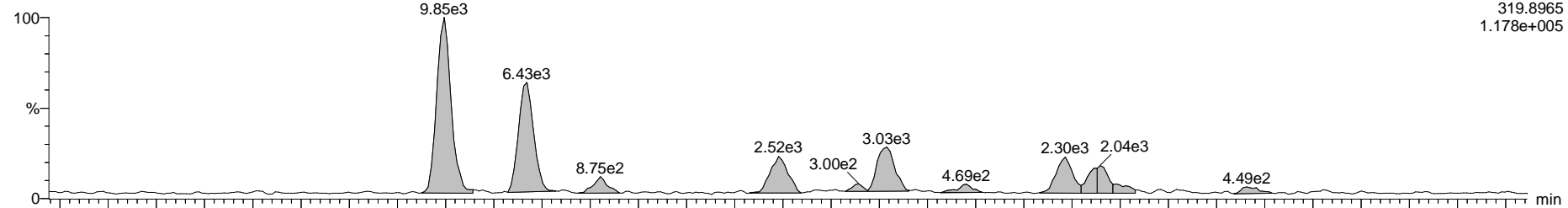


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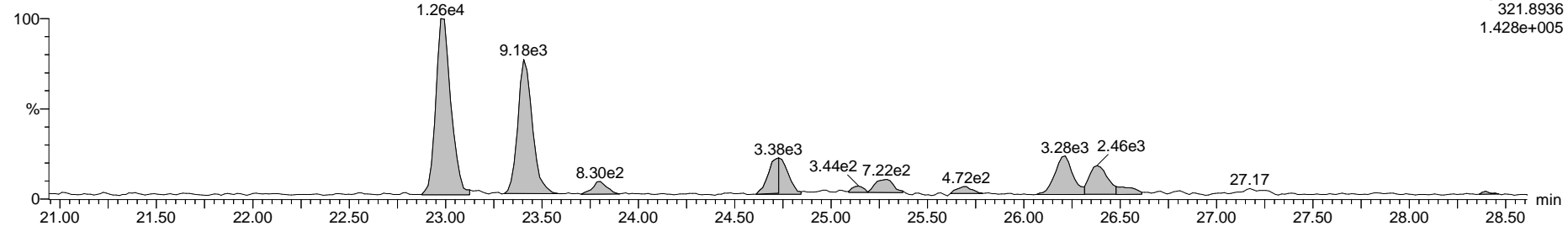
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Total Tetra-Dioxins

DX9M_083S8 Smooth(SG,1x2)

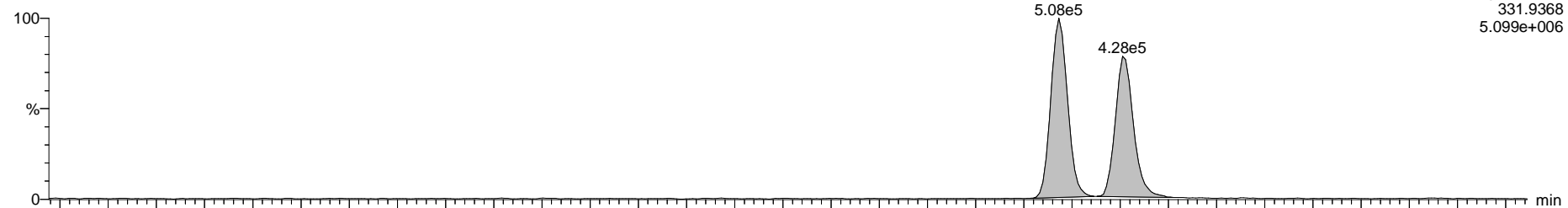


DX9M_083S8 Smooth(SG,1x2)

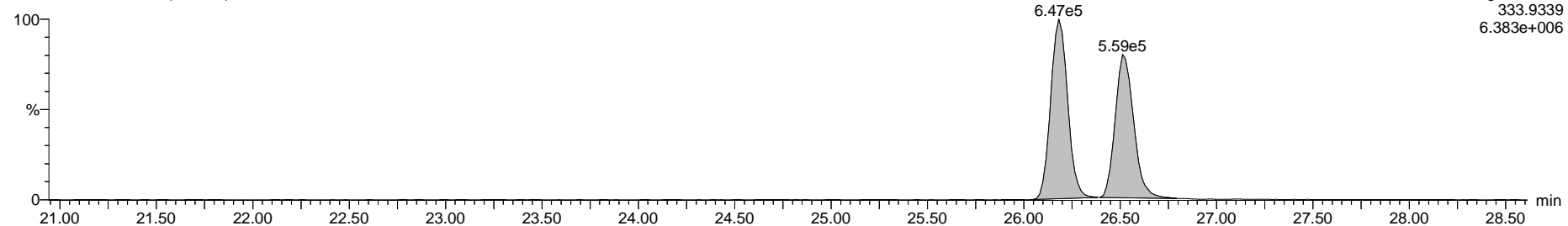


13C-2,3,7,8-TCDD

DX9M_083S8 Smooth(SG,1x2)



DX9M_083S8 Smooth(SG,1x2)



PV WL 14-JUL-2009

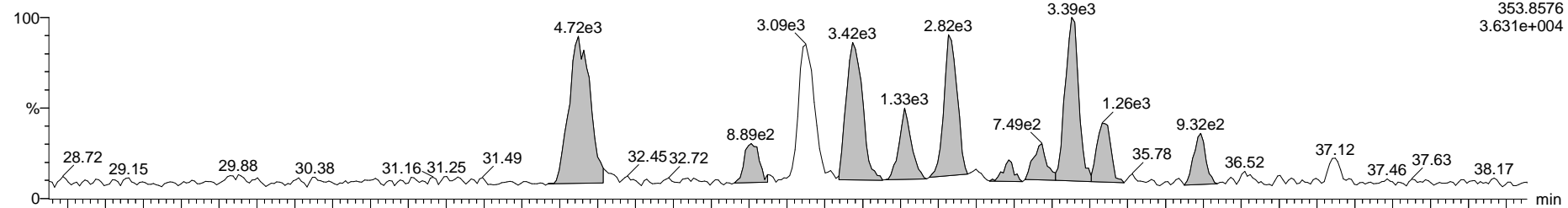


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

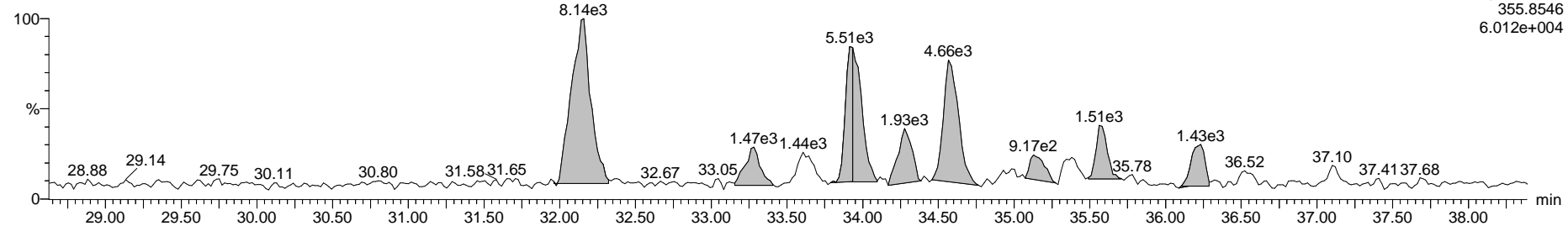
Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Dioxins

DX9M_083S8 Smooth(SG,1x2)

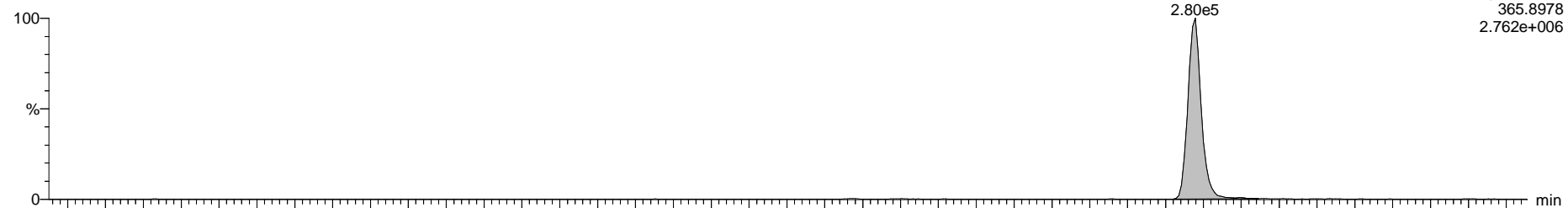


DX9M_083S8 Smooth(SG,1x2)

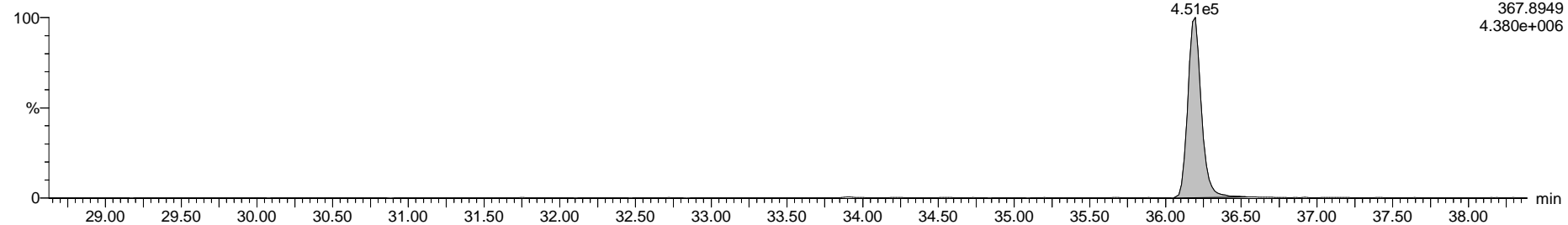


13C-1,2,3,7,8-PeCDD

DX9M_083S8 Smooth(SG,1x2)



DX9M_083S8 Smooth(SG,1x2)

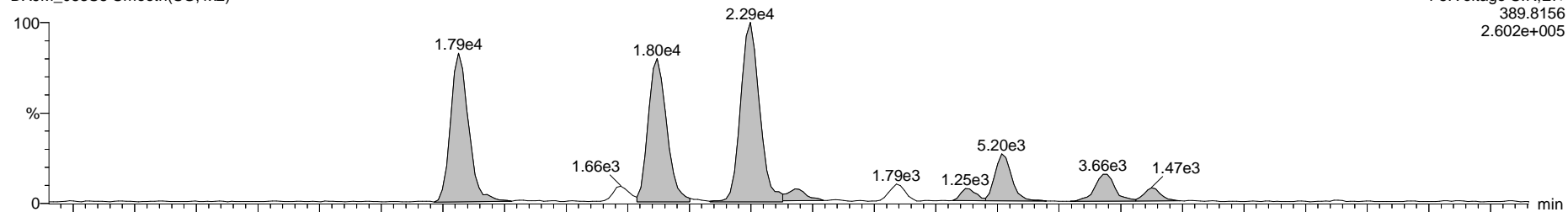


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

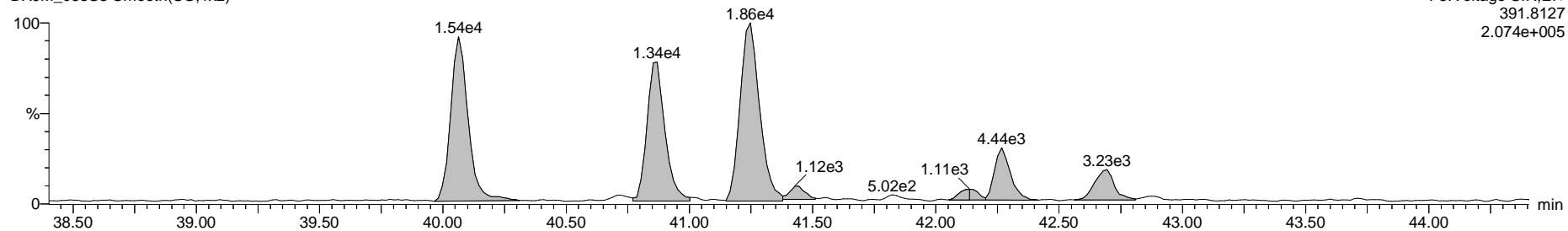
Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S8 Smooth(SG,1x2)

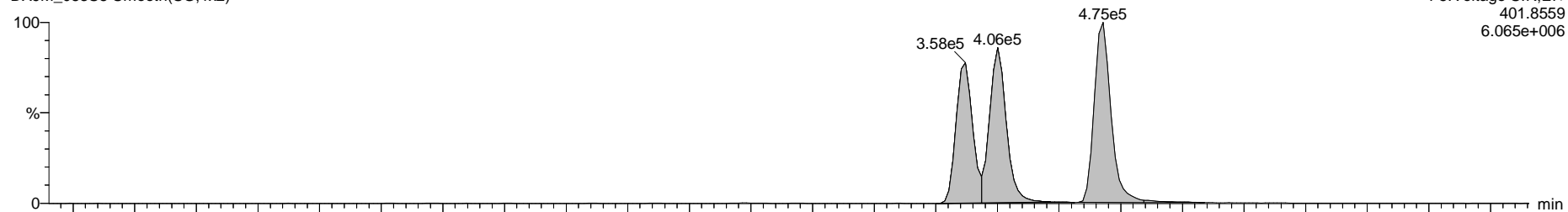


DX9M_083S8 Smooth(SG,1x2)

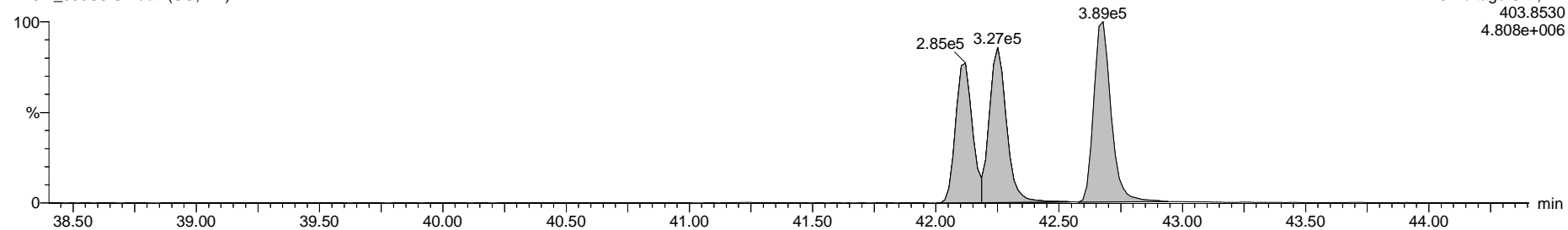


13C-1,2,3,4,7,8-HxCDD

DX9M_083S8 Smooth(SG,1x2)



DX9M_083S8 Smooth(SG,1x2)

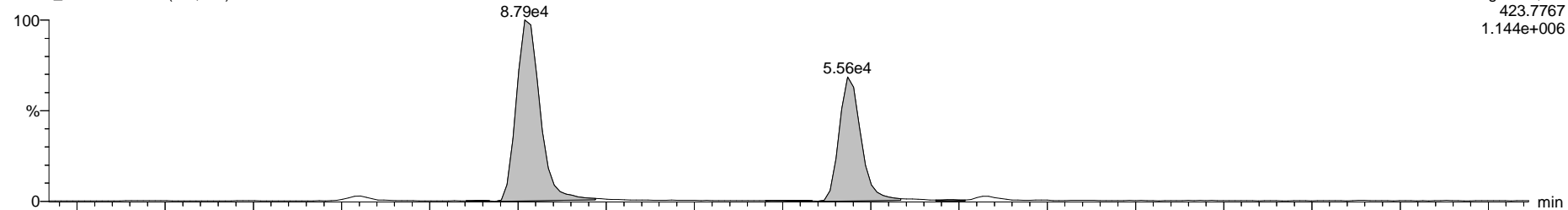


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

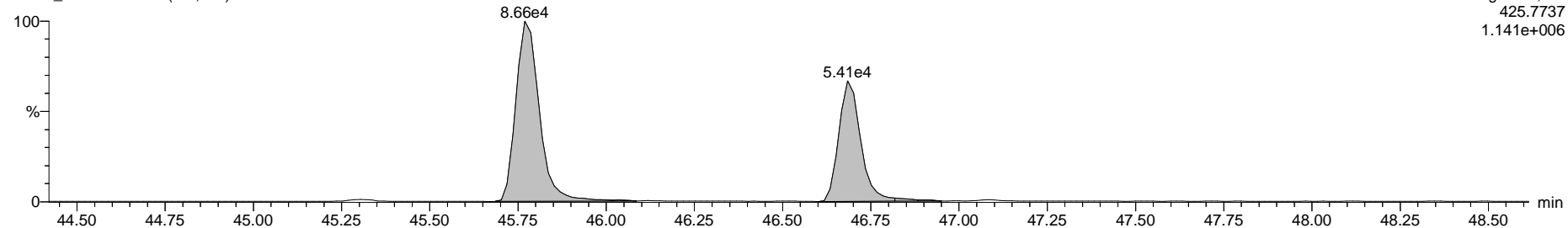
Total Hepta-Dioxins

DX9M_083S8 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
1.144e+006

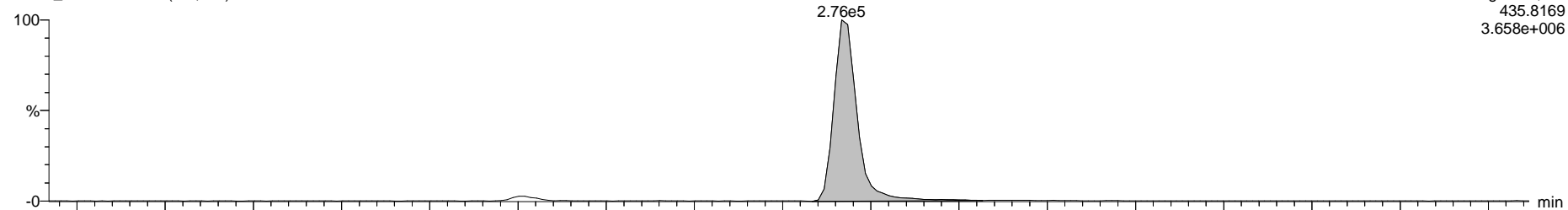
DX9M_083S8 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
1.141e+006

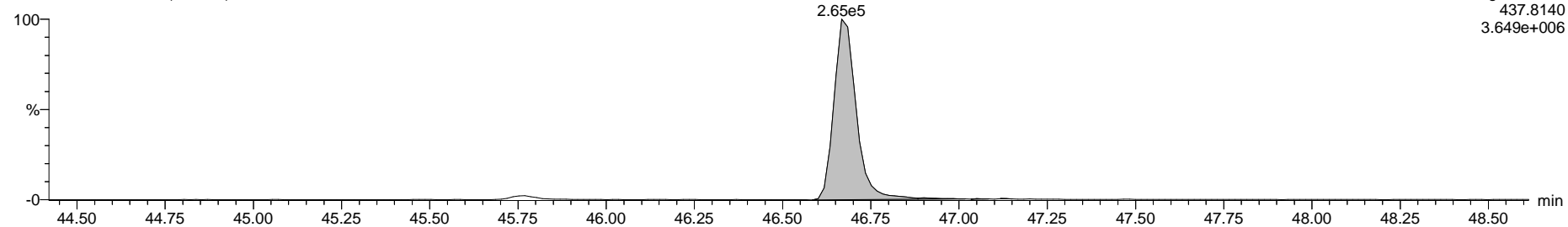
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S8 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
3.658e+006

DX9M_083S8 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
3.649e+006

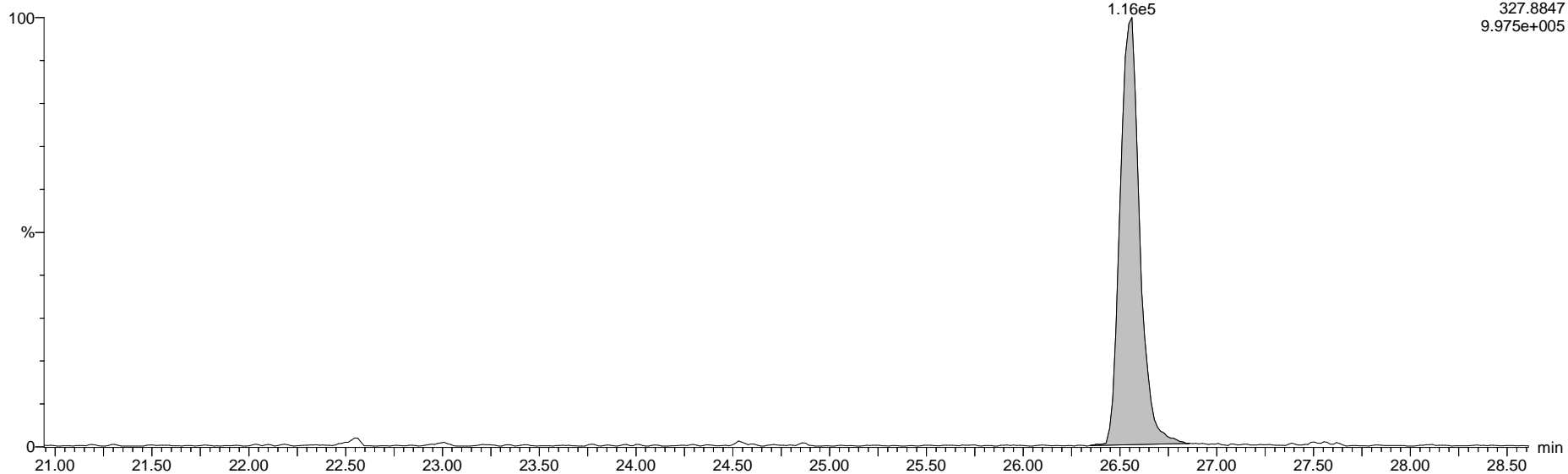


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

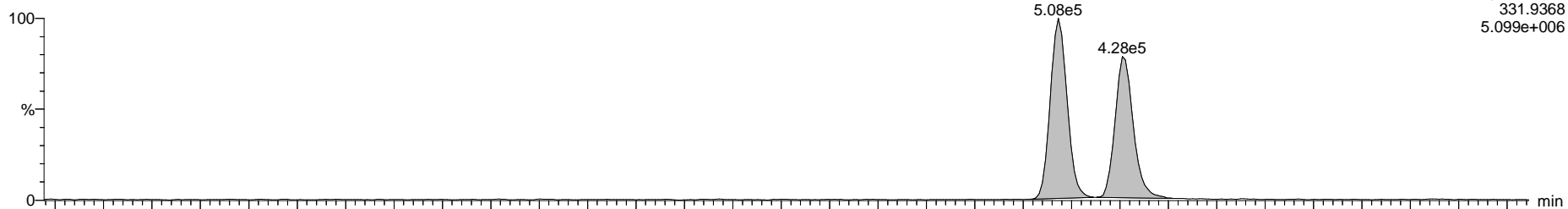
37Cl-2,3,7,8-TCDD

DX9M_083S8 Smooth(SG,1x2)

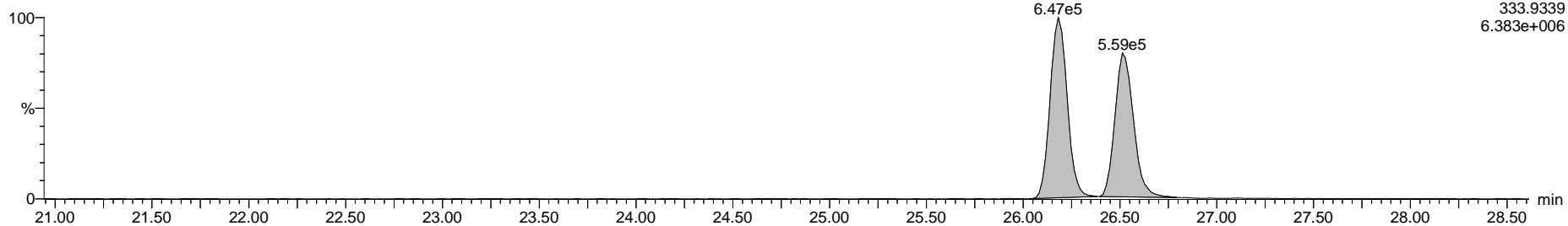


13C-1,2,3,4-TCDD

DX9M_083S8 Smooth(SG,1x2)



DX9M_083S8 Smooth(SG,1x2)



PV WL 14-JUL-2009

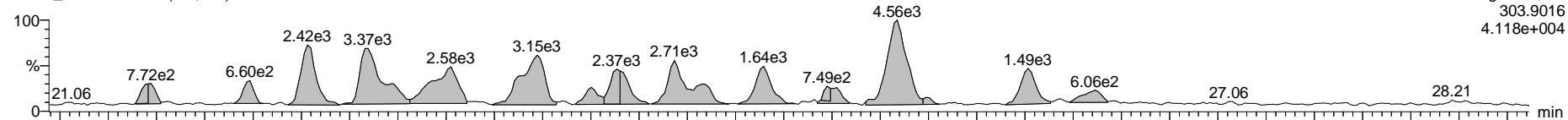


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

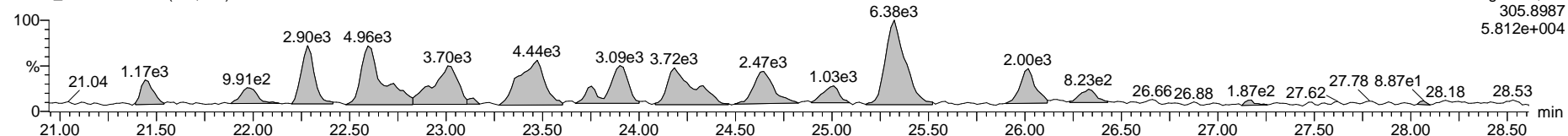
Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S8 Smooth(SG,1x2)

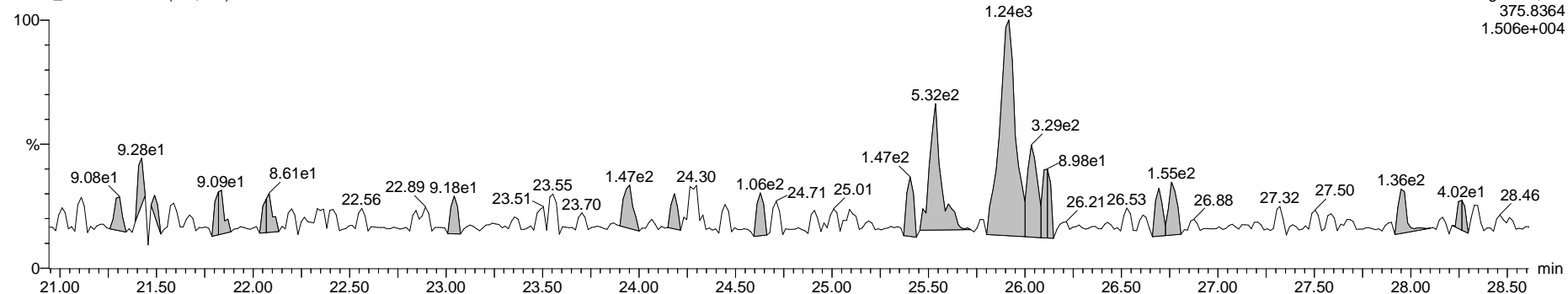


DX9M_083S8 Smooth(SG,1x2)



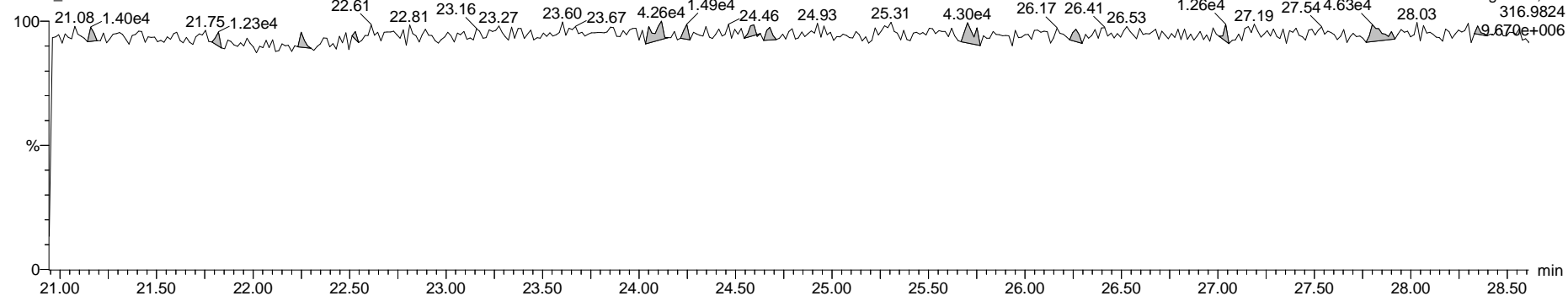
Hexa DPE

DX9M_083S8 Smooth(SG,1x2)



Tetra Lock

DX9M_083S8



PV WL 14-JUL-2009

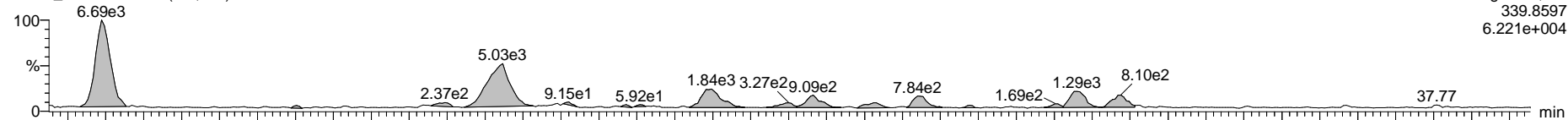


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

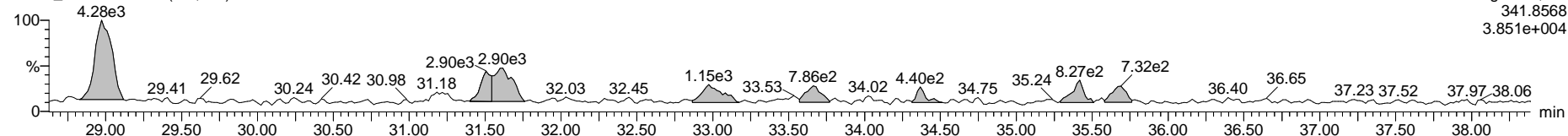
Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S8 Smooth(SG,1x2)

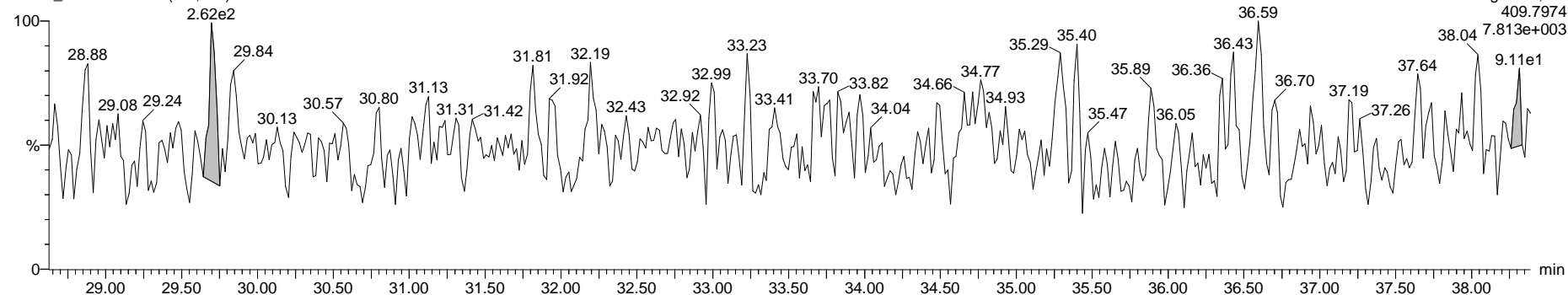


DX9M_083S8 Smooth(SG,1x2)



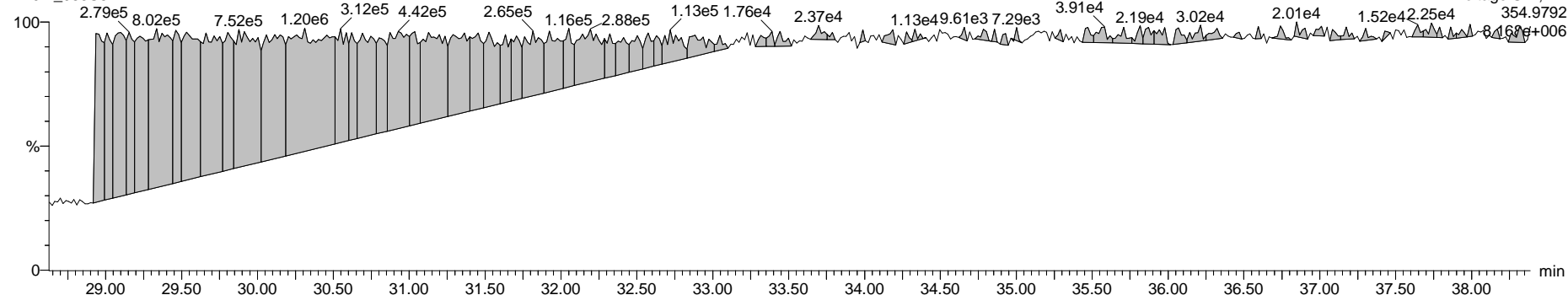
Hepta DPE

DX9M_083S8 Smooth(SG,1x2)



Penta Lock

DX9M_083S8



PV WL 14-JUL-2009



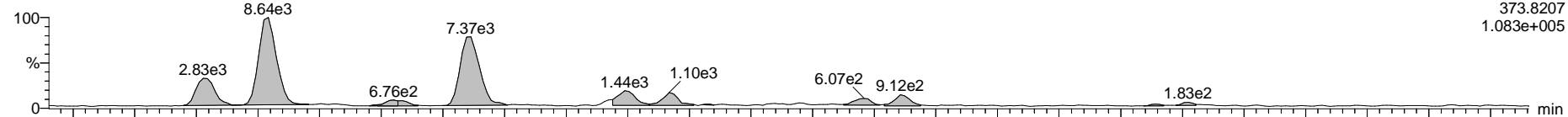
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

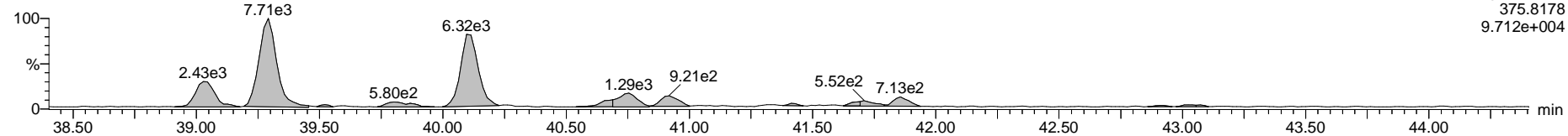
DX9M_083S8 Smooth(SG,1x2)

F5:Voltage SIR,EI+
373.8207
1.083e+005



DX9M_083S8 Smooth(SG,1x2)

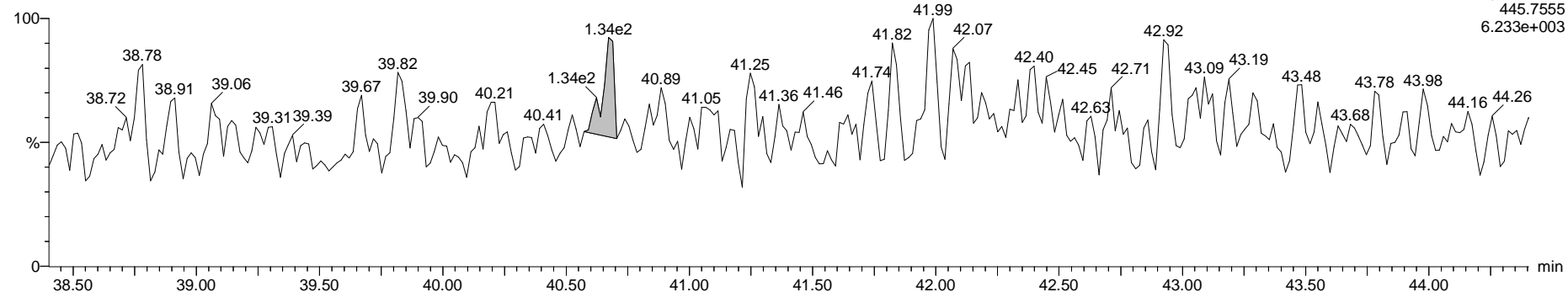
F5:Voltage SIR,EI+
375.8178
9.712e+004



Octa DPE

DX9M_083S8 Smooth(SG,1x2)

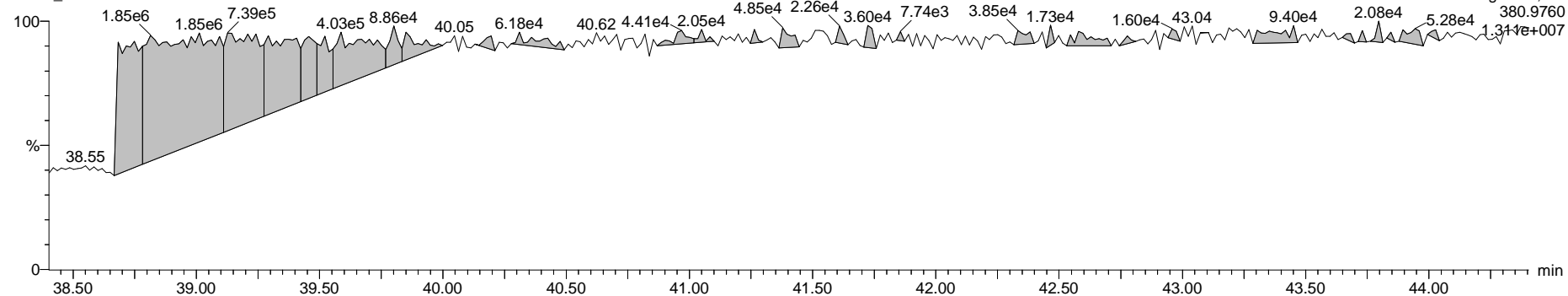
F5:Voltage SIR,EI+
445.7555
6.233e+003



Hexa Lock

DX9M_083S8

F5:Voltage SIR,EI+
380.9760
1.311e+007

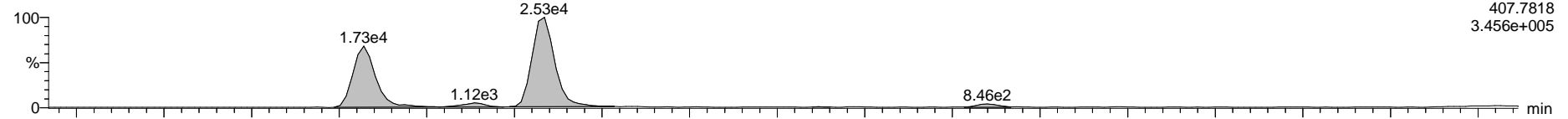


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

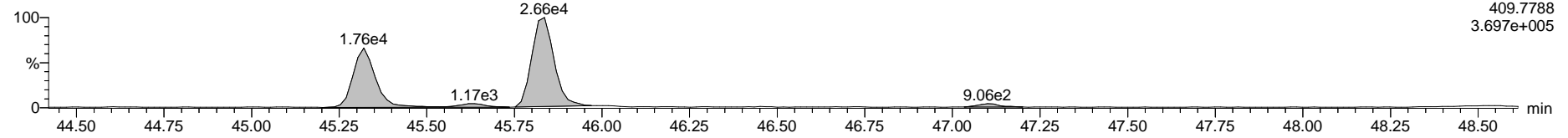
Total Hepta-Furans

DX9M_083S8 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
3.456e+005

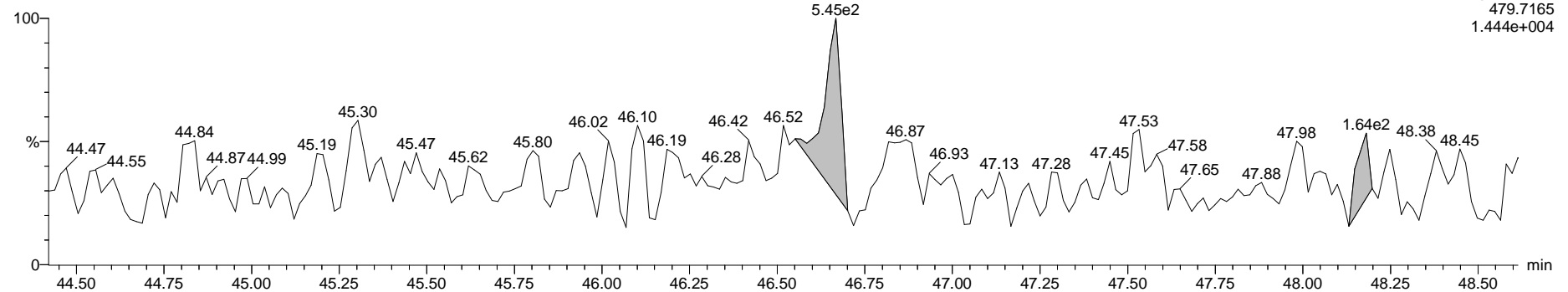
DX9M_083S8 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
3.697e+005

Nona DPE

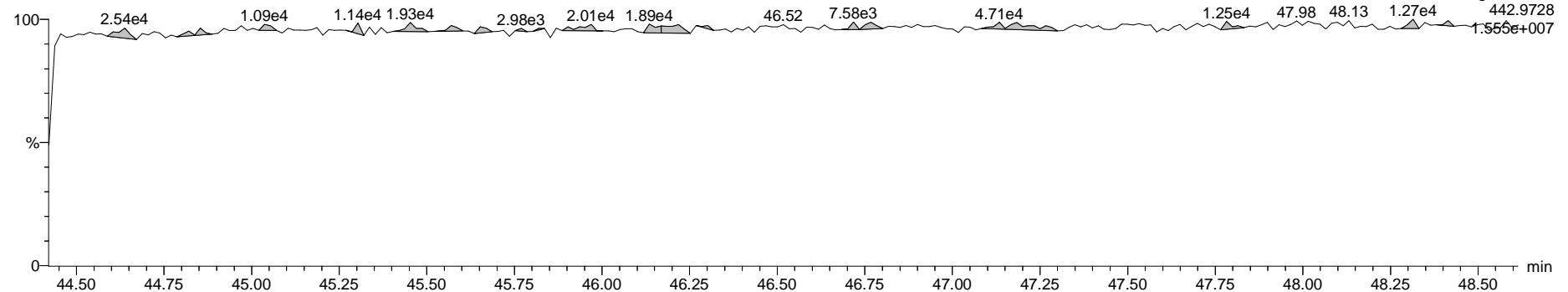
DX9M_083S8 Smooth(SG,1x2)



F6:Voltage SIR,EI+
479.7165
1.444e+004

Hepta Lock

DX9M_083S8



F6:Voltage SIR,EI+
442.9728
1.55e+007

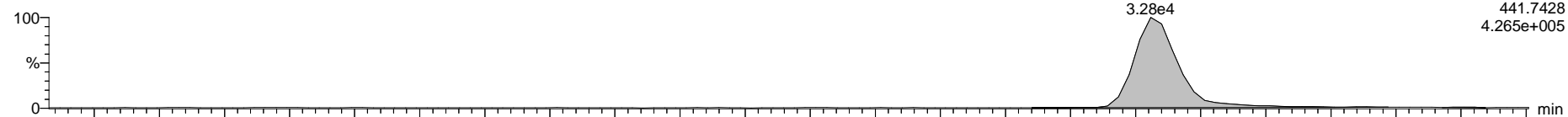


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

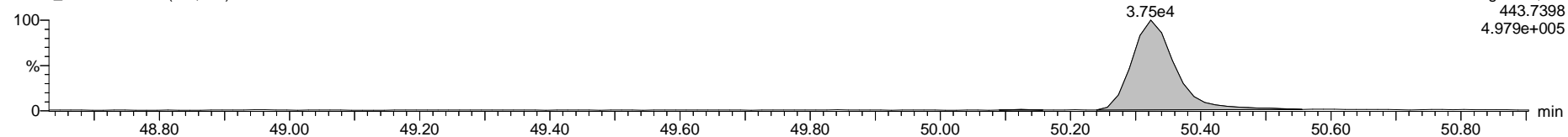
Name: DX9M_083S8, Date: 10-Jul-2009, Time: 14:52:03, ID: L12912-5,I,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S8 Smooth(SG,1x2)

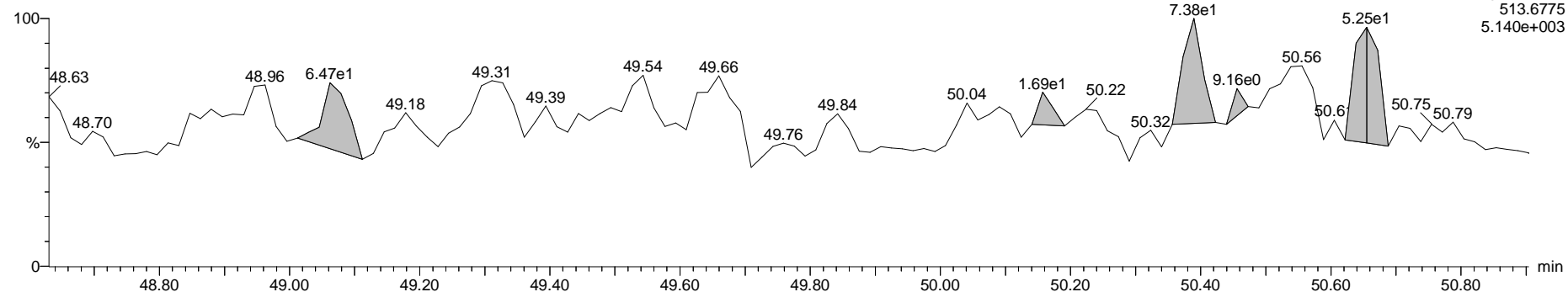


DX9M_083S8 Smooth(SG,1x2)



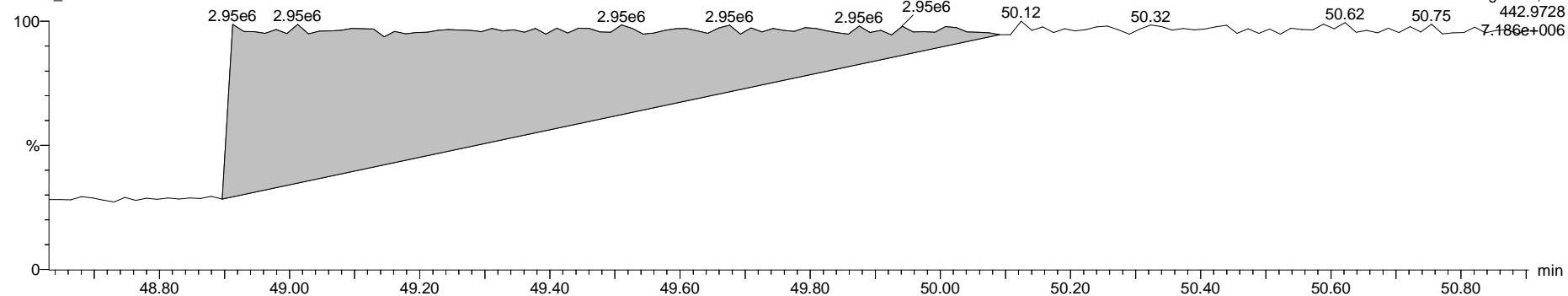
Deca DPE

DX9M_083S8 Smooth(SG,1x2)



Octa Lock

DX9M_083S8



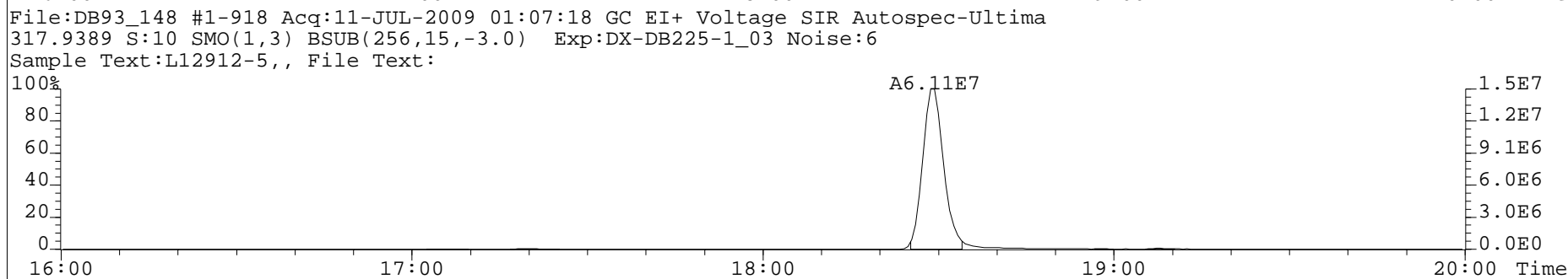
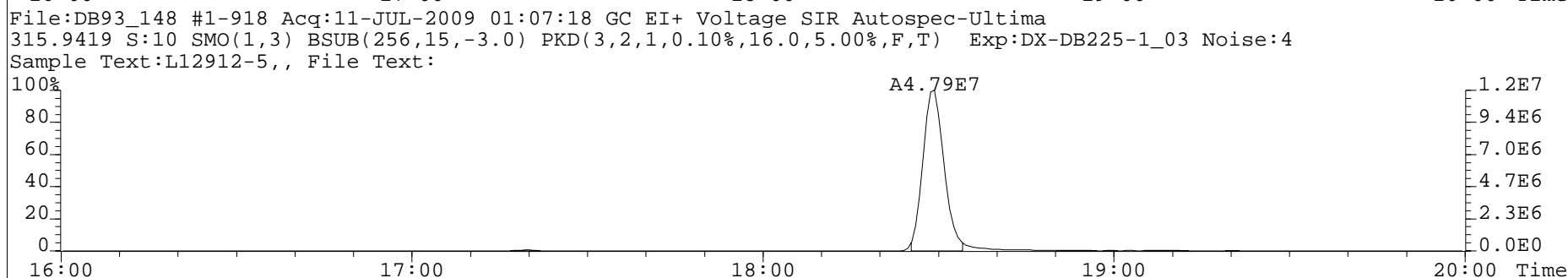
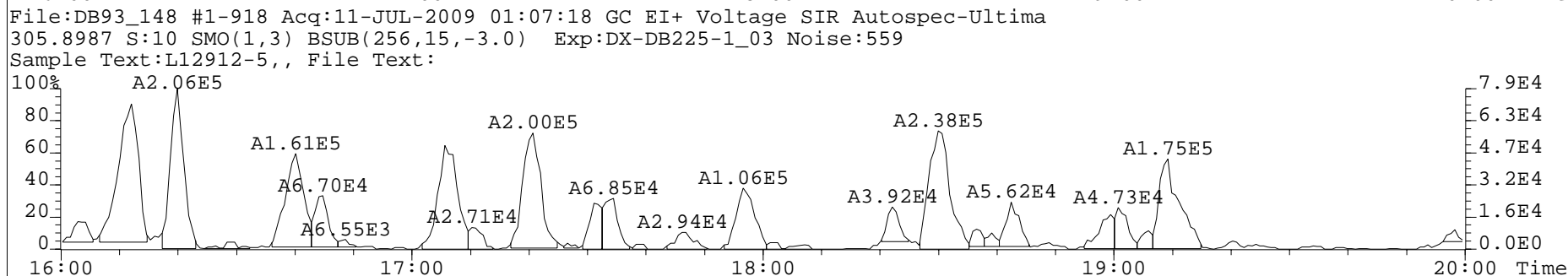
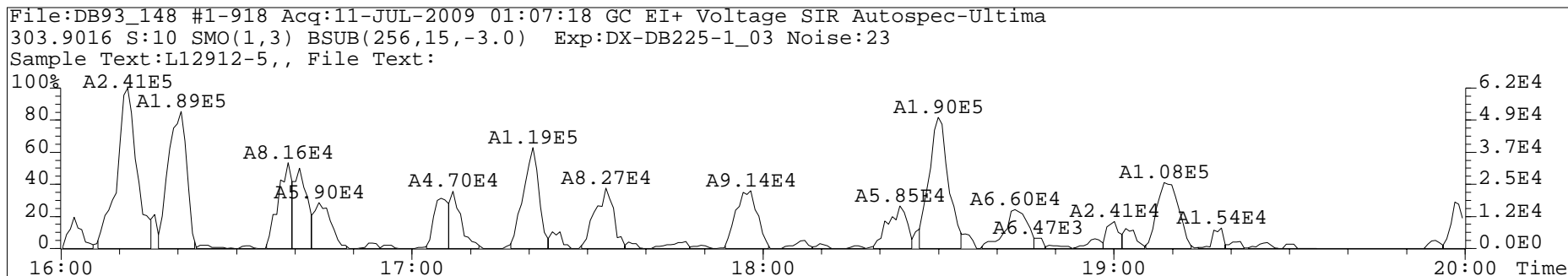
Run #14 Filename DB93_148 S: 10 I: 1 Acquired: 11-JUL-09 01:07:18 Processed: 15-JUL-09 13:58:41
 Run: db93_148-a Analyte: 1613B-db-s4 Cal: db93_146d» Results: db93_148-a Version: V3.6 6-JAN-2000 17:51:42
 Sample text: L12912-5,, Comments: 1,WG29271,2.0/20uL
 sample size: 10.300000 conc units: pg/g total toxicity: 0.10 F1: 1.0000 F2: 1.0000

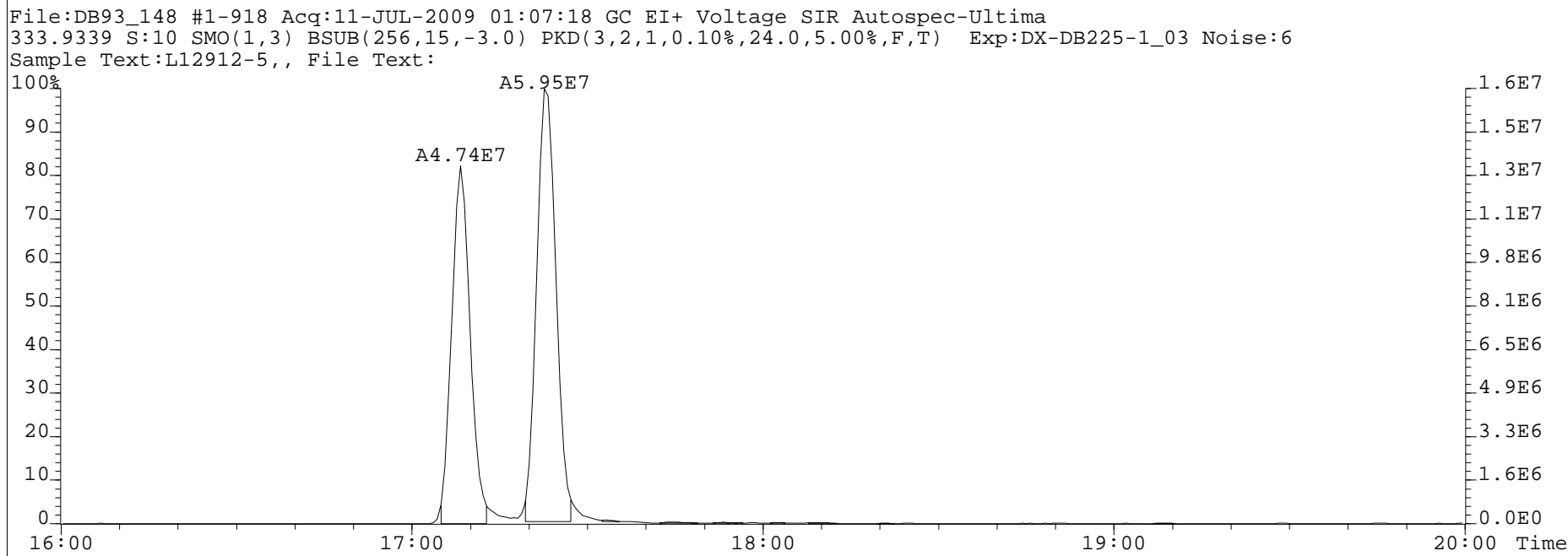
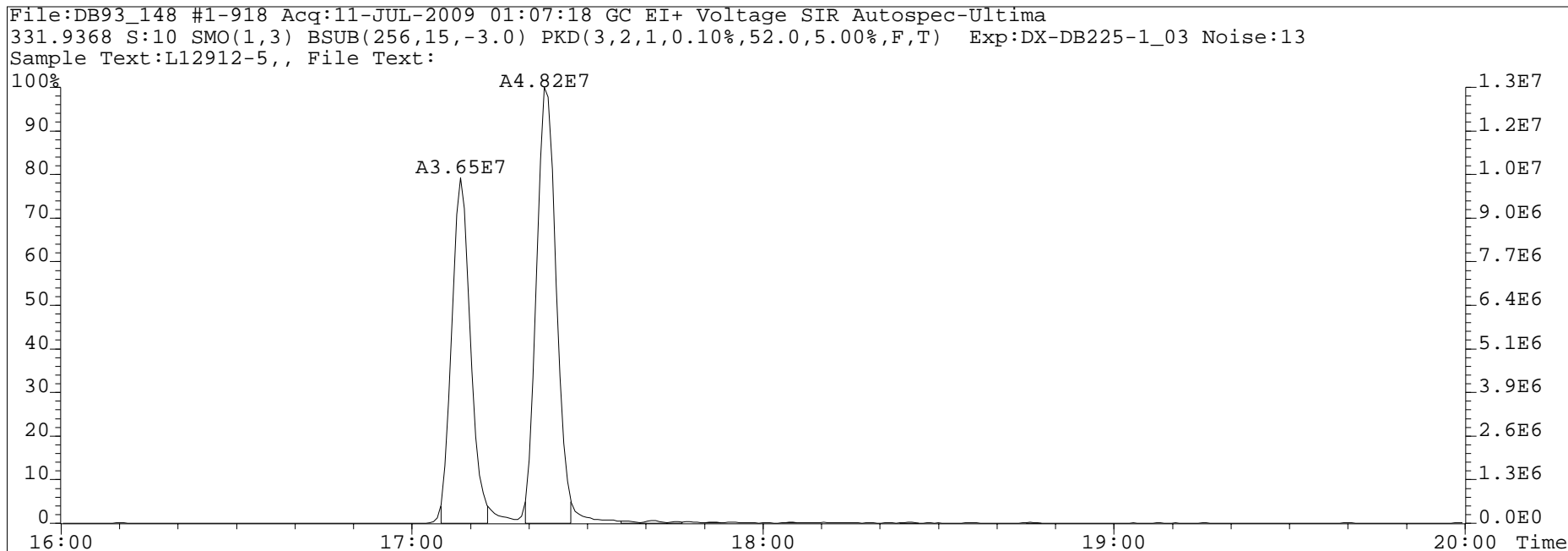
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	4.27e+05	0.80	y 18:30	0.970	0	0.0537	-	Y
2 IS/RT	13C-2,3,7,8-TCDF	1	1.09e+08	0.78	y 18:29	134.704	-	0.0005	69.4	n
3 RS	13C-1,2,3,4-TCDD	1	1.08e+08	0.81	y 17:23	15.908	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

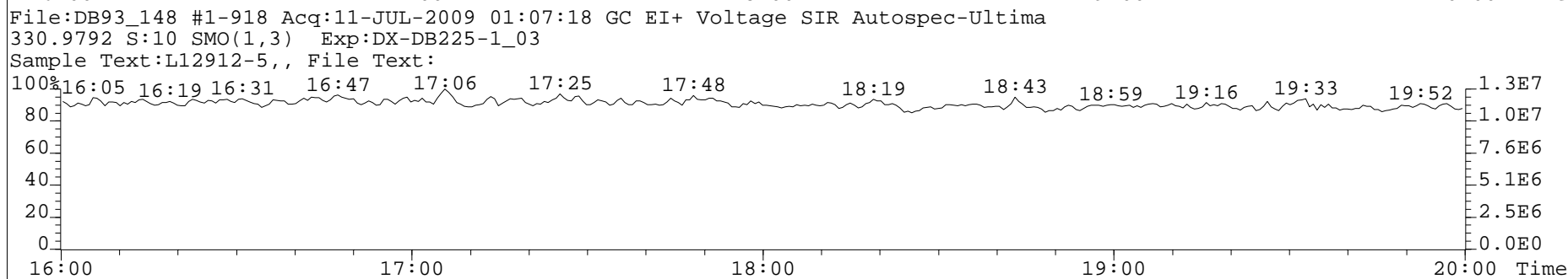
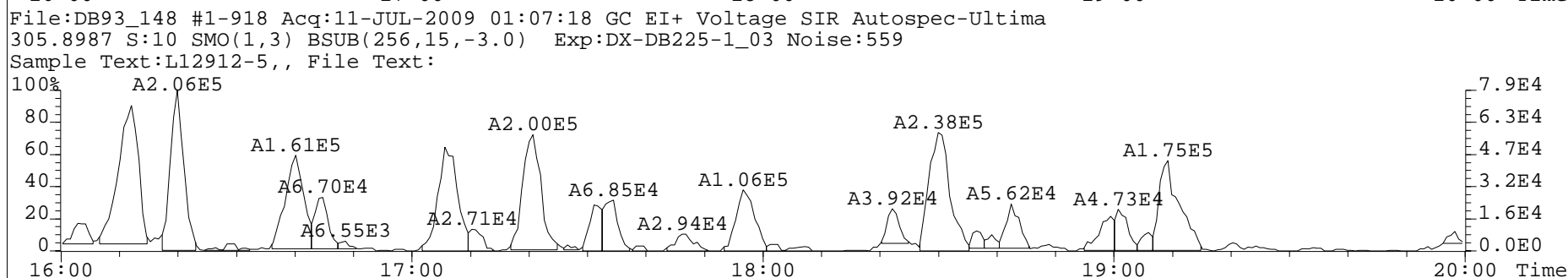
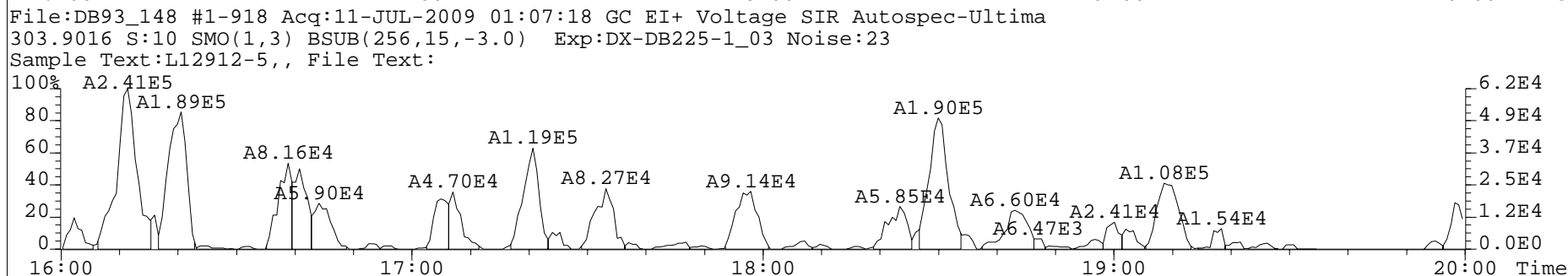
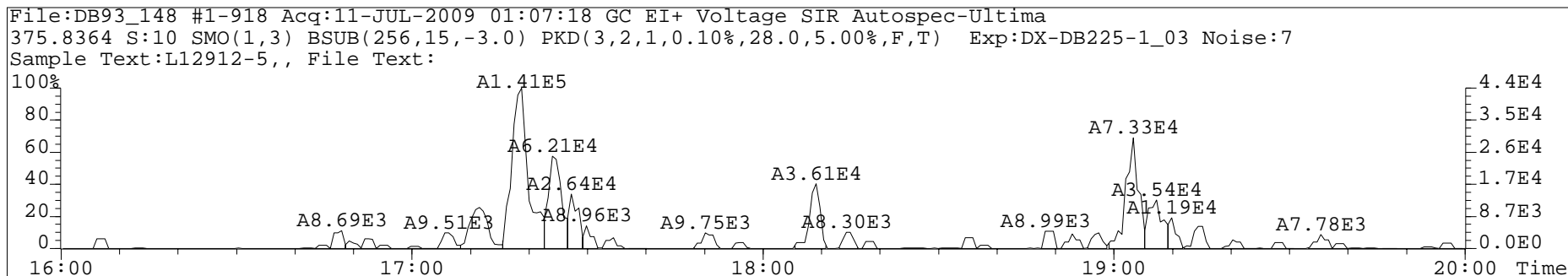
50'd BRA
22-Jul-09

PV BY ml
15-July
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Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,1,, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fails?	RT	pg/g	DL	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	10.280	3.42e4	0.75	NO	25.36	8.460	0.1788		1.54e3	1.16e3
2	1,2,3,7,8-PeCDF	10.280	3.80e3	1.51	NO	33.68	1.241	0.1964		1.05e3	8.80e2
3	2,3,4,7,8-PeCDF	10.280	5.61e3	1.21	YES	35.44	1.865	0.1741		1.05e3	8.80e2
4	1,2,3,4,7,8-HxCDF	10.280	8.81e3	1.29	NO	40.77	3.654	0.1494		9.78e2	8.30e2
5	1,2,3,6,7,8-HxCDF	10.280	5.99e3	1.24	NO	40.94	2.214	0.1444		9.78e2	8.30e2
6	2,3,4,6,7,8-HxCDF	10.280	5.72e3	1.44	NO	41.87	2.550	0.1659		9.78e2	8.30e2
7	1,2,3,7,8,9-HxCDF	10.280	4.34e2	0.96	YES	42.93	0.222	0.2023		9.78e2	8.30e2
8	1,2,3,4,6,7,8-HpCDF	10.280	1.70e5	1.01	NO	45.34	85.245	0.1876		9.07e2	1.14e3
9	1,2,3,4,7,8,9-HpCDF	10.280	7.59e3	1.07	NO	47.12	4.823	0.2447		9.07e2	1.14e3
10	OCDF	10.280	4.49e5	0.87	NO	50.34	306.832	0.2760		1.61e3	6.08e2
11	2,3,7,8-TCDD	10.280	3.12e3	0.57	YES	26.56	0.875	0.1884		1.22e3	1.22e3
12	1,2,3,7,8-PeCDD	10.280	7.01e3	0.58	NO	36.23	2.818	0.2557		1.40e3	1.02e3
13	1,2,3,4,7,8-HxCDD	10.280	7.49e3	1.22	NO	42.15	3.809	0.1756		1.13e3	6.56e2
14	1,2,3,6,7,8-HxCDD	10.280	3.28e4	1.17	NO	42.28	15.030	0.1704		1.13e3	6.56e2
15	1,2,3,7,8,9-HxCDD	10.280	2.08e4	1.32	NO	42.69	10.197	0.1760		1.13e3	6.56e2
16	1,2,3,4,6,7,8-HpCDD	10.280	5.47e5	1.01	NO	46.70	291.399	0.2462		1.26e3	1.29e3
17	OCDD	10.280	3.58e6	0.88	NO	50.26	2265.656	0.1824		1.04e3	5.45e2
18	13C-2,3,7,8-TCDF	10.280	1.03e6	0.76	NO	25.31	114.521	0.2219	58.9	5.62e3	2.24e3
19	13C-1,2,3,7,8-PeCDF	10.280	7.13e5	1.56	NO	33.64	113.926	0.1583	58.6	2.20e3	1.71e3
20	13C-2,3,4,7,8-PeCDF	10.280	6.91e5	1.55	NO	35.40	113.354	0.1627	58.3	2.20e3	1.71e3
21	13C-1,2,3,4,7,8-HxCDF	10.280	4.89e5	0.49	NO	40.74	107.979	0.2469	55.5	3.49e3	1.92e3
22	13C-1,2,3,6,7,8-HxCDF	10.280	5.76e5	0.51	NO	40.92	109.340	0.2122	56.2	3.49e3	1.92e3
23	13C-2,3,4,6,7,8-HxCDF	10.280	5.02e5	0.50	NO	41.86	103.940	0.2313	53.4	3.49e3	1.92e3
24	13C-1,2,3,7,8,9-HxCDF	10.280	4.72e5	0.51	NO	42.89	104.581	0.2478	53.8	3.49e3	1.92e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.280	3.66e5	0.45	NO	45.32	101.027	0.2242	51.9	1.76e3	2.17e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.280	3.20e5	0.45	NO	47.10	95.802	0.2435	49.2	1.76e3	2.17e3
27	13C-2,3,7,8-TCDD	10.280	7.75e5	0.78	NO	26.55	112.371	0.4464	57.8	2.89e3	9.25e3
28	13C-1,2,3,7,8-PeCDD	10.280	5.51e5	0.62	NO	36.21	123.531	0.2468	63.5	2.86e3	1.49e3
29	13C-1,2,3,4,7,8-HxCDD	10.280	4.68e5	1.27	NO	42.14	107.982	0.1890	55.5	2.55e3	1.42e3
30	13C-1,2,3,6,7,8-HxCDD	10.280	5.59e5	1.19	NO	42.27	110.574	0.1619	56.8	2.55e3	1.42e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.280	3.79e5	1.03	NO	46.68	99.889	0.1927	51.3	1.02e3	2.52e3
32	13C-OCDD	10.280	6.63e5	0.87	NO	50.24	153.852	0.0996	39.5	8.09e2	1.27e3
33	13C-1,2,3,4-TCDD	10.280	1.23e6	0.78	NO	26.20	6.759	0.0169	3.5	2.89e3	9.25e3
34	13C-1,2,3,7,8,9-HxCDD	10.280	8.64e5	1.27	NO	42.69	7.464	0.0071	3.8	2.55e3	1.42e3
35	37Cl-2,3,7,8-TCDD	10.280	1.14e5			26.56	17.302	0.0819	88.9		2.12e3
36	Total Tetra-Furans	10.280				61.128	65.043	0.1788			1.16e3
37	Total Tetra-Dioxins	10.280				62.024	65.277	0.1884			1.22e3
38	Total Penta-Furans	10.280				32.42	35.938	0.1965	0.1965		8.80e2
39	Total Penta-Dioxins	10.280				46.281	47.038	0.2557			1.02e3
40	Total Hexa-Furans	10.280				84.055	89.047	0.2023	0.2023		8.30e2
41	Total Hexa-Dioxins	10.280					152.668	0.1760	0.1760		6.56e2
42	Total Hepta-Furans	10.280					276.285	0.2447	0.2447		1.14e3
43	Total Hepta-Dioxins	10.280				896.895	697.007	0.2462			1.29e3
44	Hexa DPE	1.000	2.20e3			25.55					9.16e2
45	Hepta DPE	1.000	7.62e2			33.23					1.87e3
46	Octa DPE	1.000	6.00e2			42.40					1.46e3
47	Nona DPE	1.000	5.32e2			46.68					2.37e3
48	Deca DPE	1.000	1.43e2			50.36					8.39e2
49	Tetra Lock	1.000	4.72e4			28.05					4.38e5
50	Penta Lock	1.000	2.36e6			29.01					3.63e5
51	Hexa Lock	1.000	1.88e6			38.78					7.26e5
52	Hepta Lock	1.000	2.86e4			44.70					4.36e5
53	Octa Lock	1.000	4.55e6			50.54					1.25e6

PV WL 14-JUL-2009

SV'd BPA 23-Jul-09



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	1 ^o Ratio (A...	Fails?	pg
1	24.20	0.740	NO	6.742
2	23.92	0.759	NO	5.767
3	23.47	0.735	NO	7.199
4	23.03	0.757	NO	6.140
5	22.61	0.782	NO	8.631
6	22.30	0.753	NO	3.934
7	21.99	0.776	NO	1.966
8	21.47	0.793	NO	2.258
9	26.35	0.639	YES	1.915
10	26.03	0.772	NO	3.853
11	25.36	0.751	NO	8.460
12	25.03	0.703	NO	2.413
13	24.66	0.711	NO	3.765

19

Tetradioxins

	RT	1 ^o Ratio (A...	Fails?	pg
1	26.21	0.731	NO	3.725
2	25.70	0.803	NO	1.899
3	25.31	1.311	YES	1.893
4	25.16	0.776	NO	1.517
5	24.74	0.775	NO	9.805
6	23.82	0.869	NO	1.985
7	23.42	0.750	NO	13.848
8	23.01	0.788	NO	20.984
9	27.19	0.780	NO	0.994
10	26.83	0.615	YES	0.485
11	26.56	0.571	YES	0.875
12	26.41	0.736	NO	6.448
13	24.94	0.674	NO	0.819

19

Pentafurans

	RT	1 ^o Ratio (A...	Fails?	pg
1	32.01	1.487	NO	0.731
2	31.63	1.538	NO	8.782
3	31.25	1.912	YES	0.583
4	28.99	1.518	NO	15.019
5	35.71	1.472	NO	1.965
6	35.44	1.212	YES	1.865
7	34.39	1.424	NO	1.457
8	34.06	2.028	YES	0.713
9	33.68	1.506	NO	1.241
10	33.52	1.820	YES	0.354
11	33.01	1.679	NO	3.225

19

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

Pentadioxins

	RT	1 ^o Ratio (A...	Fails?	pg
1	35.20	0.663	NO	2.046
2	35.00	0.648	NO	1.056
3	34.60	0.566	NO	7.503
4	34.30	0.579	NO	3.394
5	33.97	0.638	NO	10.495
6	33.28	0.521	NO	2.350
7	32.18	0.606	NO	12.868
8	37.12	0.520	NO	0.817
9	36.23	0.578	NO	2.818
10	35.60	0.639	NO	2.934
11	36.56	0.436	YES	0.756

ig

Hexafurans

	RT	1 ^o Ratio (A...	Fails?	pg
1	40.69	1.248	NO	0.643
2	40.13	1.221	NO	37.712
3	39.82	1.095	NO	1.452
4	39.57	1.193	NO	0.371
5	39.31	1.219	NO	28.622
6	39.04	1.199	NO	8.780
7	43.06	1.331	NO	0.557
8	42.93	0.960	YES	0.222
9	41.87	1.476	YES	2.550
10	41.72	1.601	YES	1.738
11	41.36	0.908	YES	0.379
12	41.10	2.347	YES	0.153
13	40.94	1.245	NO	2.214
14	40.77	1.286	NO	3.654

ig

Hexadioxins

	RT	1 ^o Ratio (A...	Fails?	pg
1	42.28	1.165	NO	15.030
2	42.15	1.224	NO	3.809
3	41.46	1.350	NO	4.738
4	41.26	1.208	NO	46.220
5	40.89	1.341	NO	22.345
6	40.08	1.202	NO	50.329
7	42.69	1.324	NO	10.197

ig

Heptafurans

	RT	1 ^o Ratio (A...	Fails?	pg
1	47.12	1.069	NO	4.823
2	45.85	0.964	NO	182.404
3	45.64	1.044	NO	3.814
4	45.34	1.011	NO	85.245

ig

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

Heptadioxins

	RT	Ratio (A	Fails?	pg
1	46.70	1.015	NO	291.399
2	45.79	1.003	NO	405.496
3	45.65	1.233	YES	0.192

ig



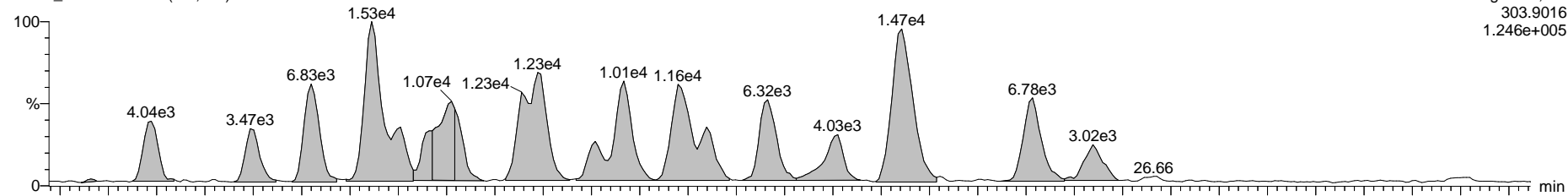
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

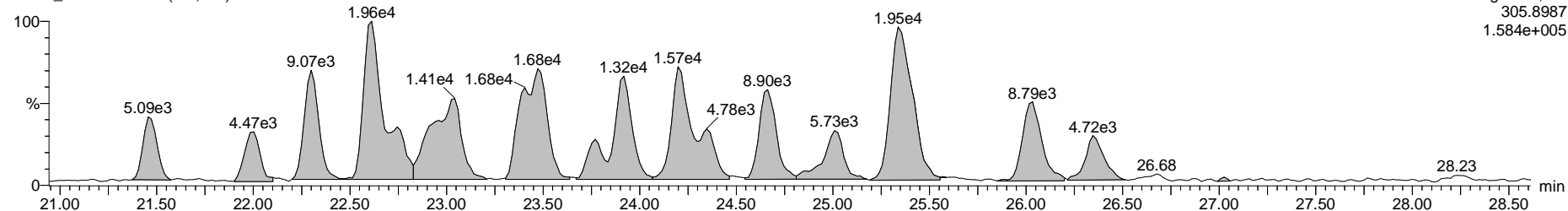
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Total Tetra-Furans

DX9M_083S9 Smooth(SG,1x2)

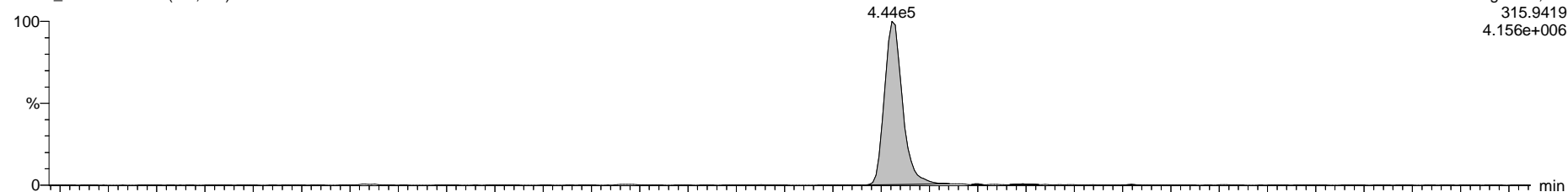


DX9M_083S9 Smooth(SG,1x2)

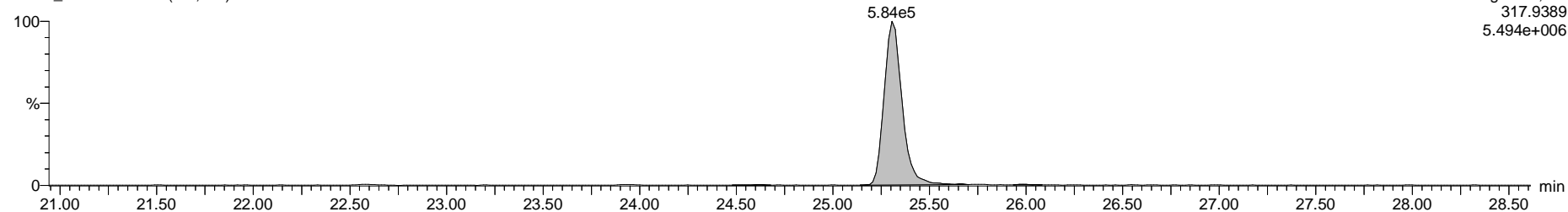


13C-2,3,7,8-TCDF

DX9M_083S9 Smooth(SG,1x2)



DX9M_083S9 Smooth(SG,1x2)

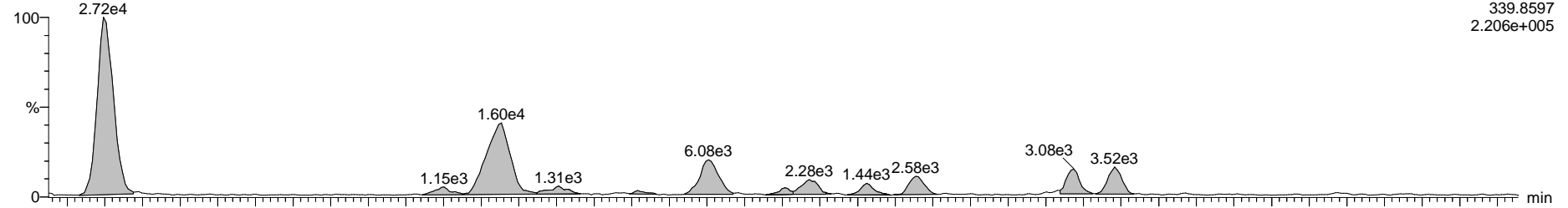


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

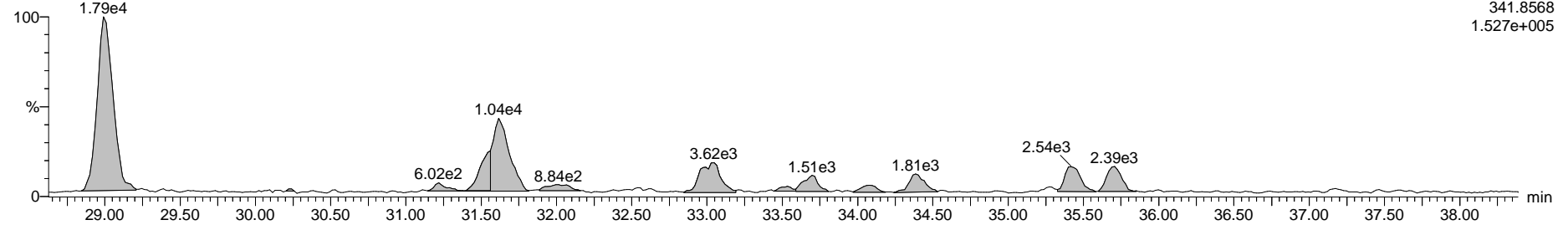
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Total Penta-Furans

DX9M_083S9 Smooth(SG,1x2)

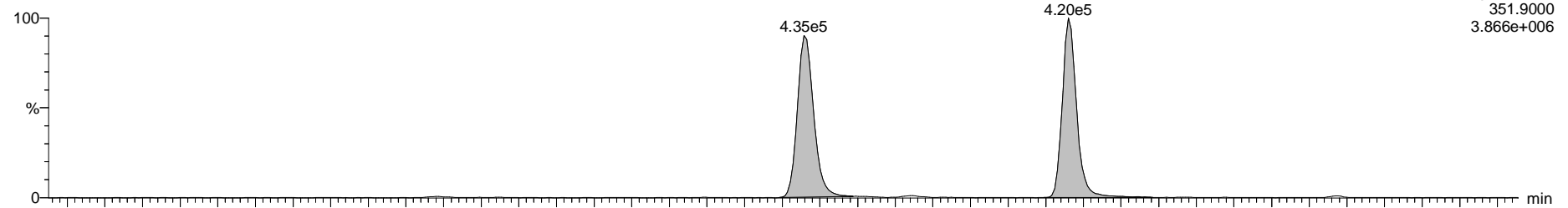


DX9M_083S9 Smooth(SG,1x2)

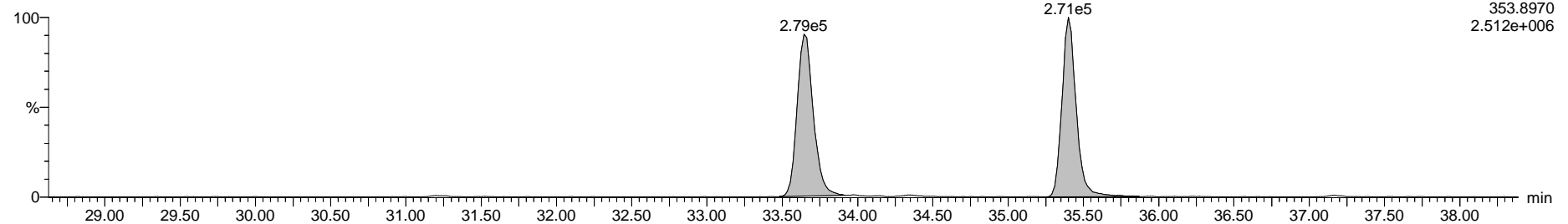


13C-1,2,3,7,8-PeCDF

DX9M_083S9 Smooth(SG,1x2)



DX9M_083S9 Smooth(SG,1x2)



PV WL 14-JUL-2009

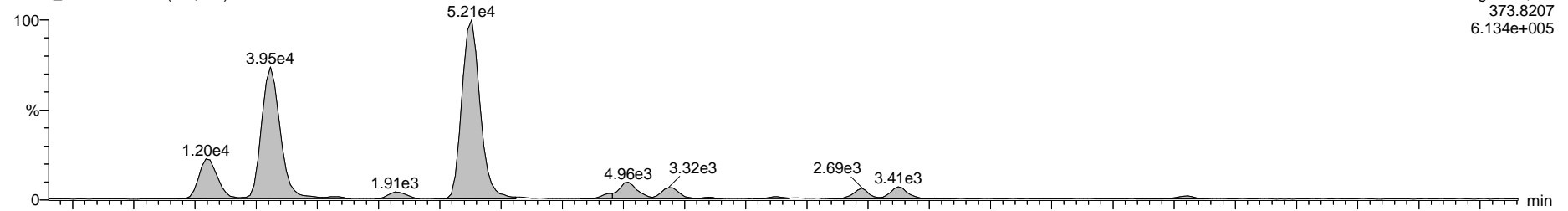


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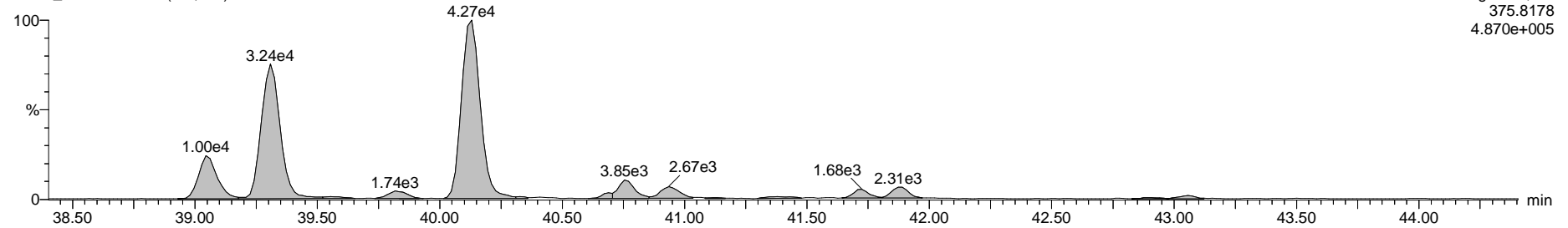
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Total Hexa-Furans

DX9M_083S9 Smooth(SG,1x2)

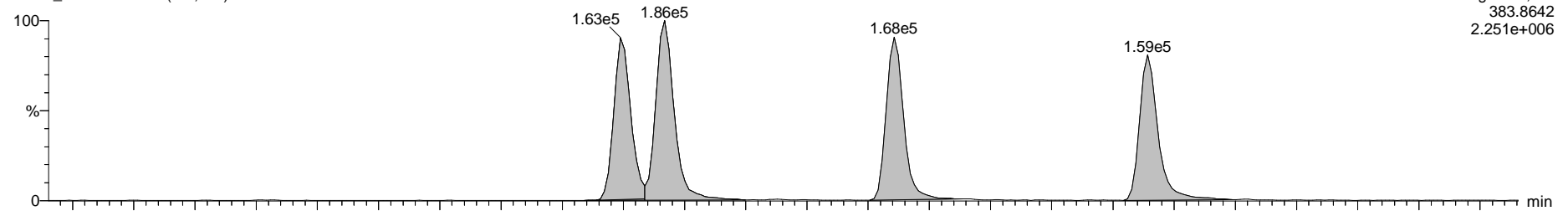


DX9M_083S9 Smooth(SG,1x2)

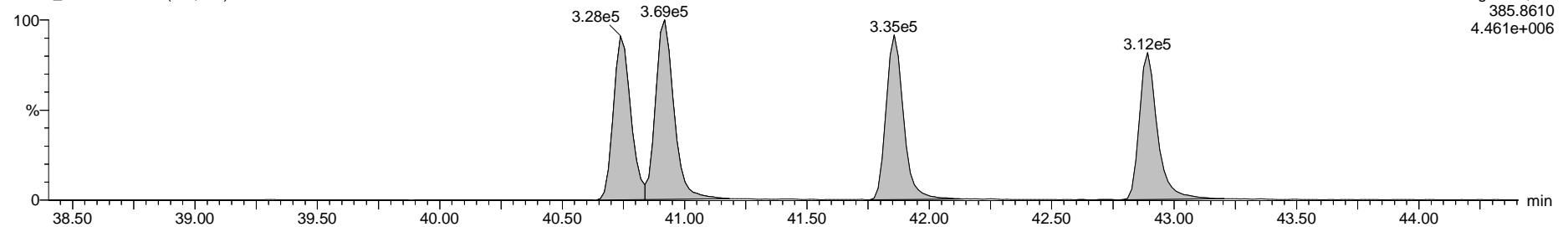


13C-1,2,3,4,7,8-HxCDF

DX9M_083S9 Smooth(SG,1x2)



DX9M_083S9 Smooth(SG,1x2)



PV WL 14-JUL-2009

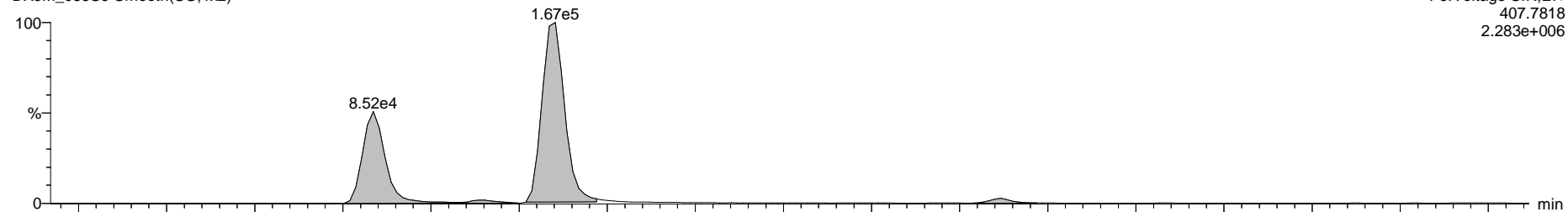


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

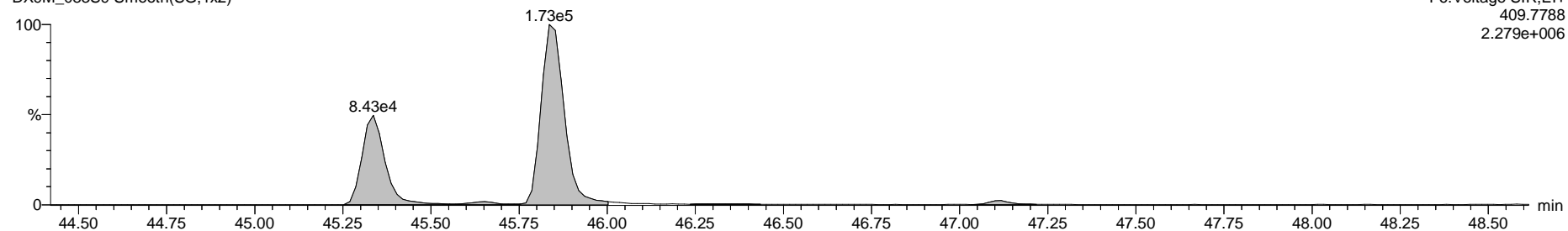
Total Hepta-Furans

DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
2.283e+006

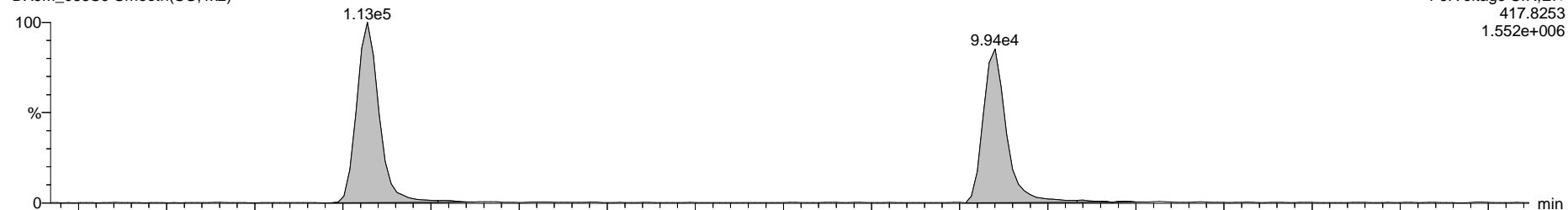
DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
2.279e+006

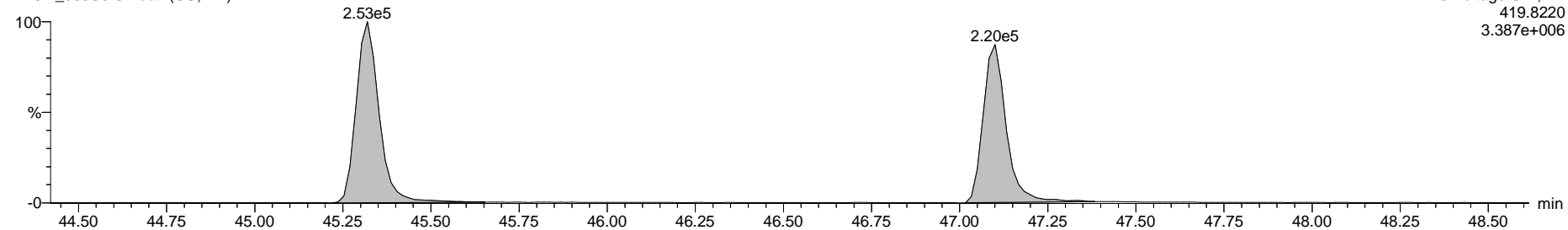
13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
1.552e+006

DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
3.387e+006

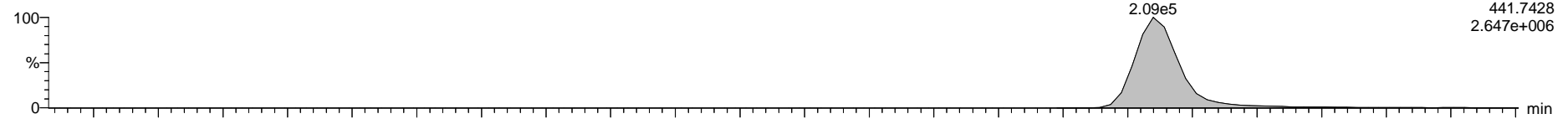


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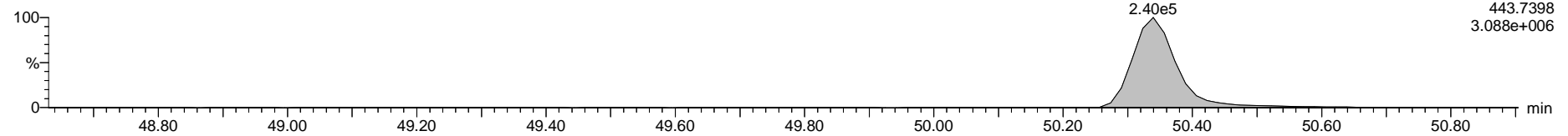
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OCDF

DX9M_083S9 Smooth(SG,1x2)

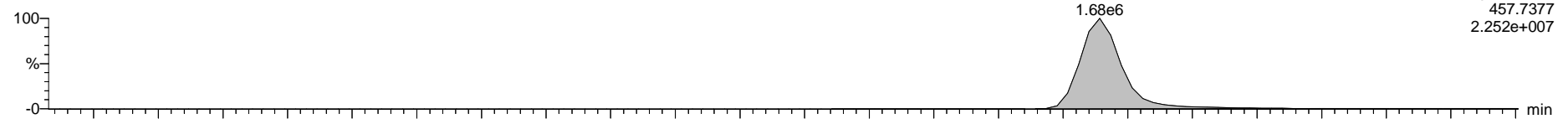


DX9M_083S9 Smooth(SG,1x2)

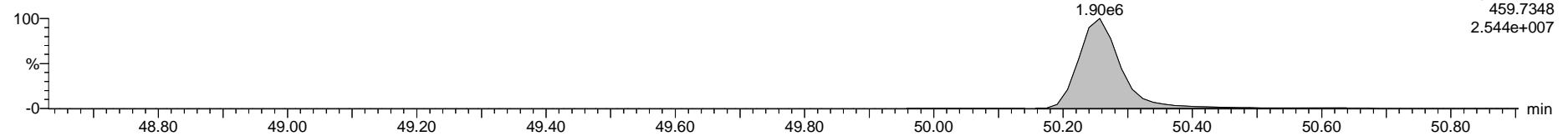


OCDD

DX9M_083S9 Smooth(SG,1x2)

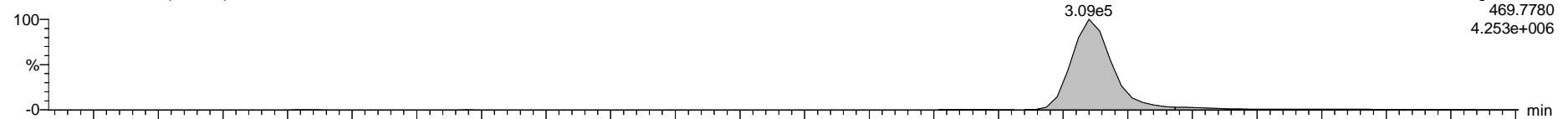


DX9M_083S9 Smooth(SG,1x2)

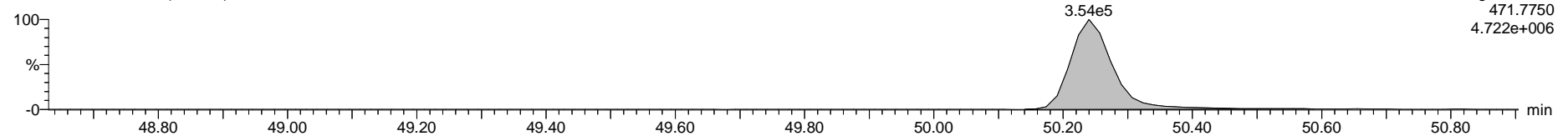


13C-OCDD

DX9M_083S9 Smooth(SG,1x2)



DX9M_083S9 Smooth(SG,1x2)

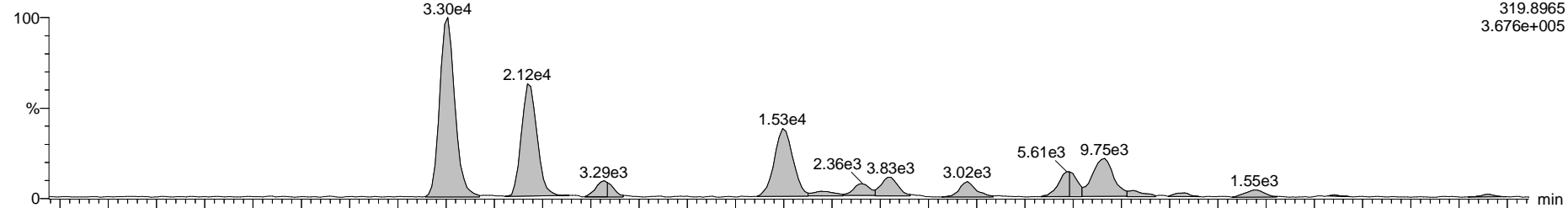


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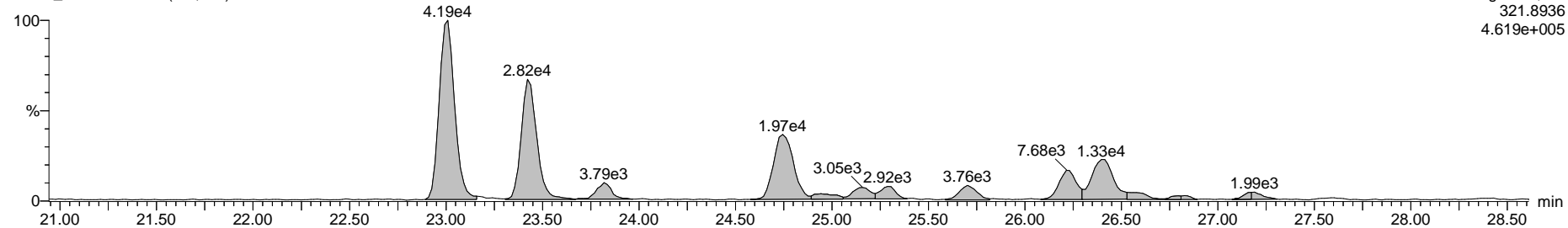
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Total Tetra-Dioxins

DX9M_083S9 Smooth(SG,1x2)

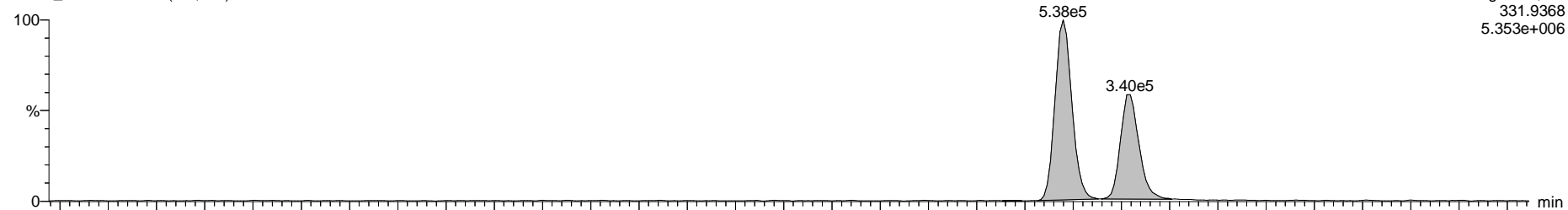


DX9M_083S9 Smooth(SG,1x2)

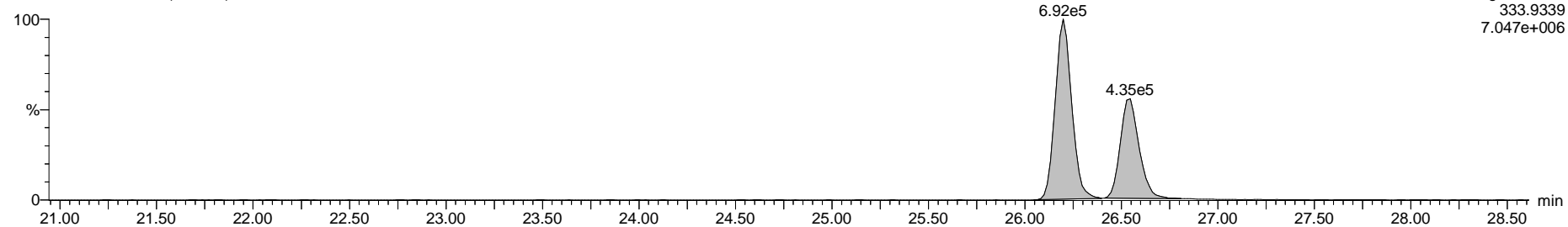


13C-2,3,7,8-TCDD

DX9M_083S9 Smooth(SG,1x2)



DX9M_083S9 Smooth(SG,1x2)



PV WL 14-JUL-2009

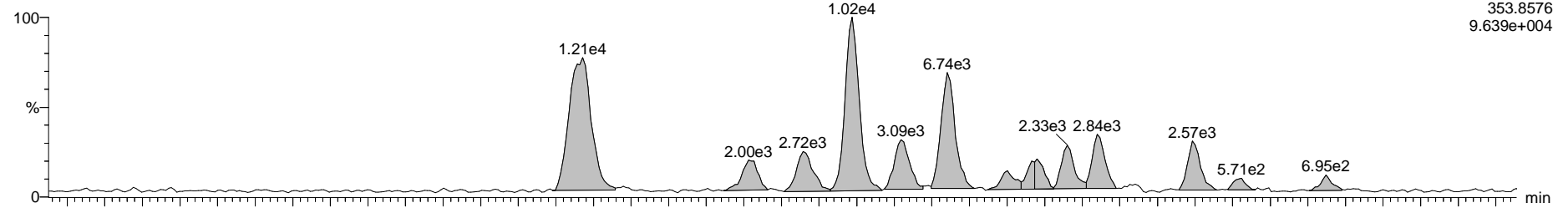


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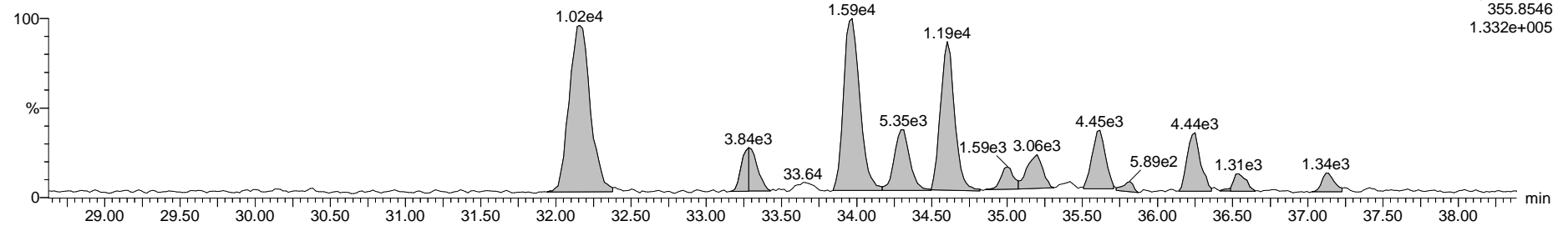
Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Dioxins

DX9M_083S9 Smooth(SG,1x2)

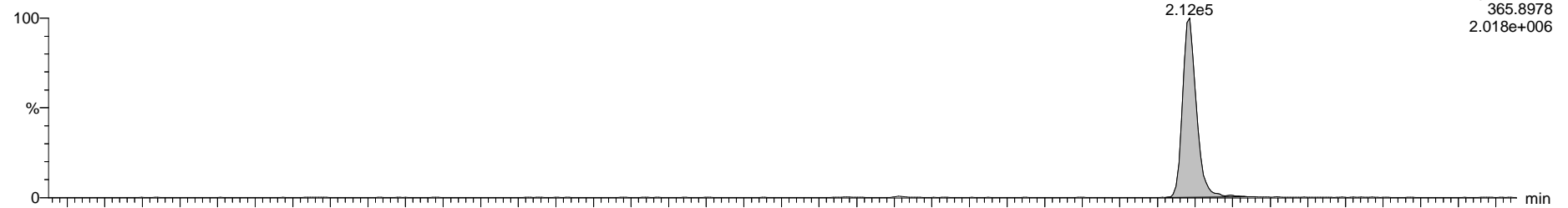


DX9M_083S9 Smooth(SG,1x2)

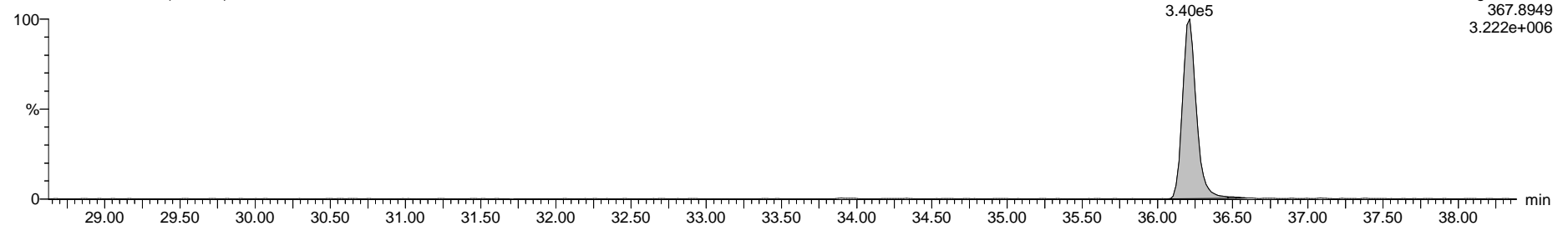


13C-1,2,3,7,8-PeCDD

DX9M_083S9 Smooth(SG,1x2)



DX9M_083S9 Smooth(SG,1x2)

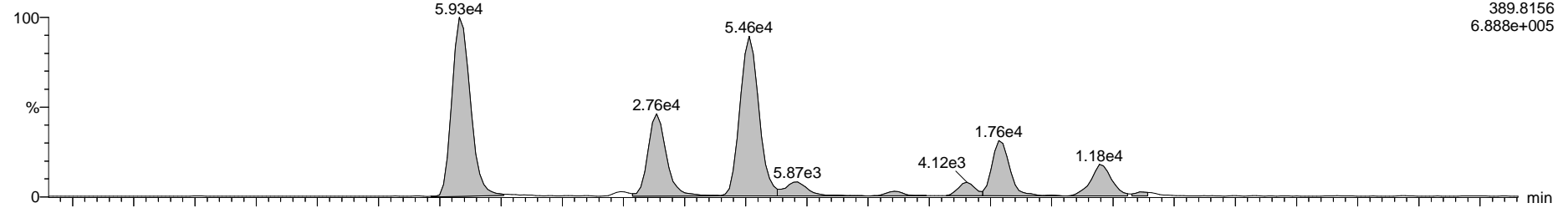


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

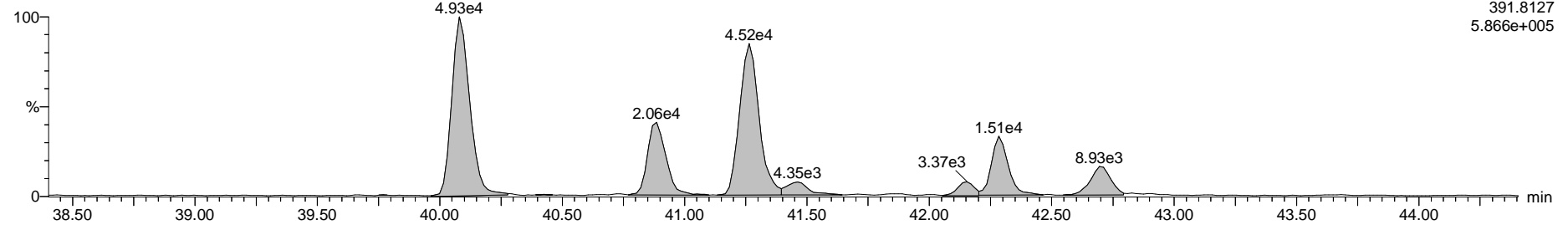
Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S9 Smooth(SG,1x2)

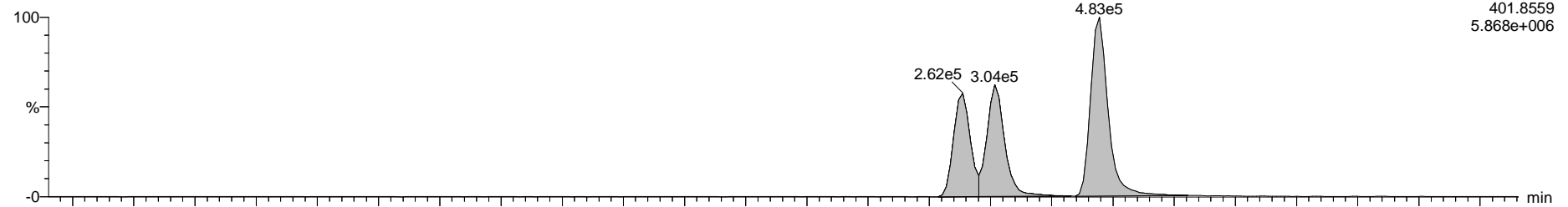


DX9M_083S9 Smooth(SG,1x2)

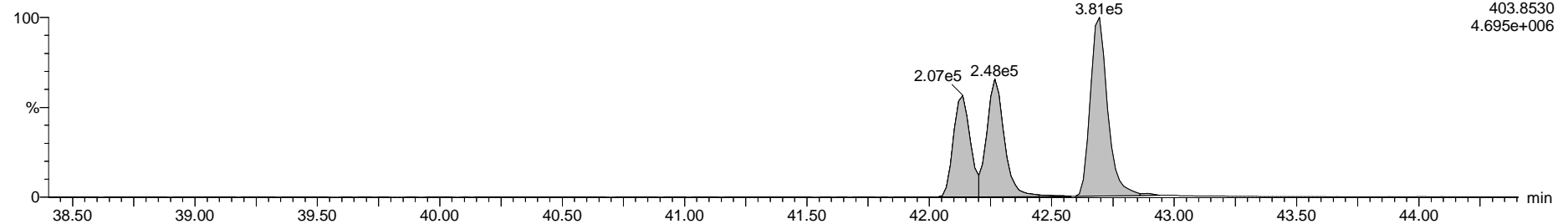


13C-1,2,3,4,7,8-HxCDD

DX9M_083S9 Smooth(SG,1x2)



DX9M_083S9 Smooth(SG,1x2)

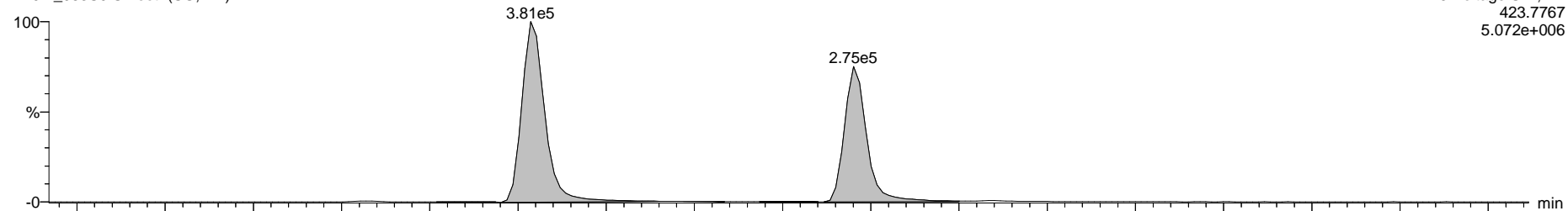


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

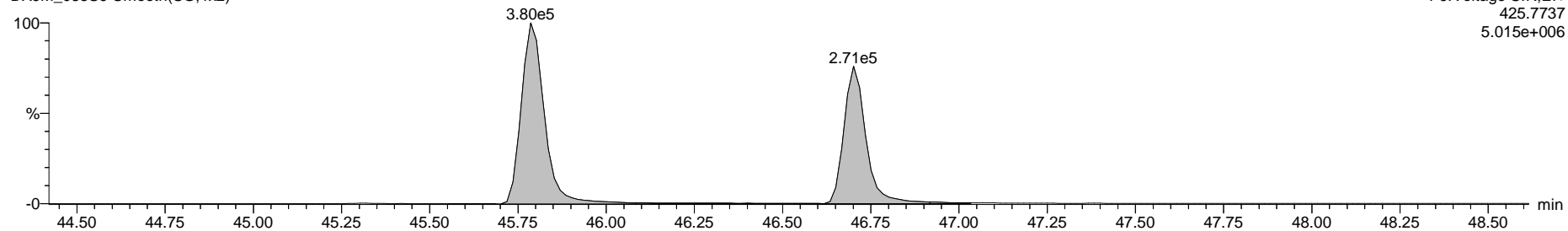
Total Hepta-Dioxins

DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
5.072e+006

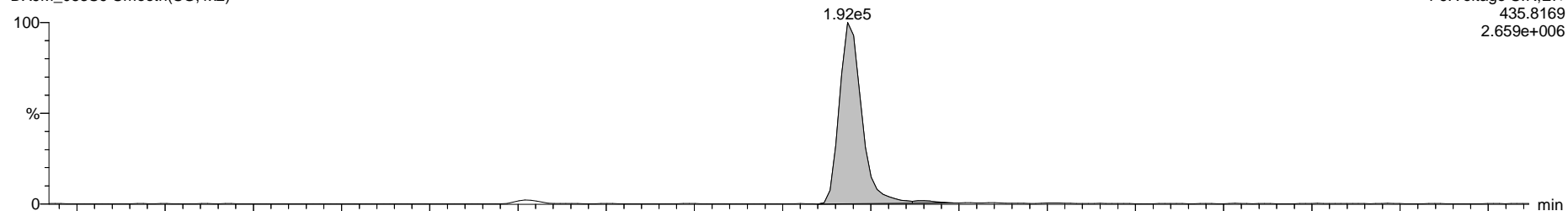
DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
5.015e+006

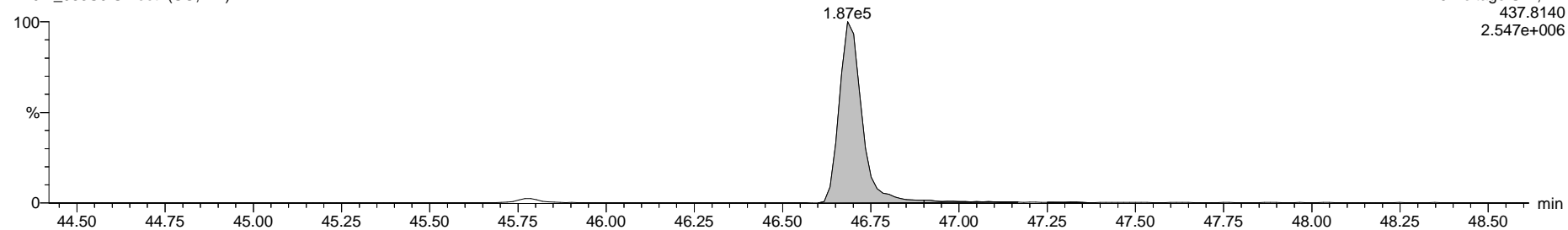
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
2.659e+006

DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
2.547e+006

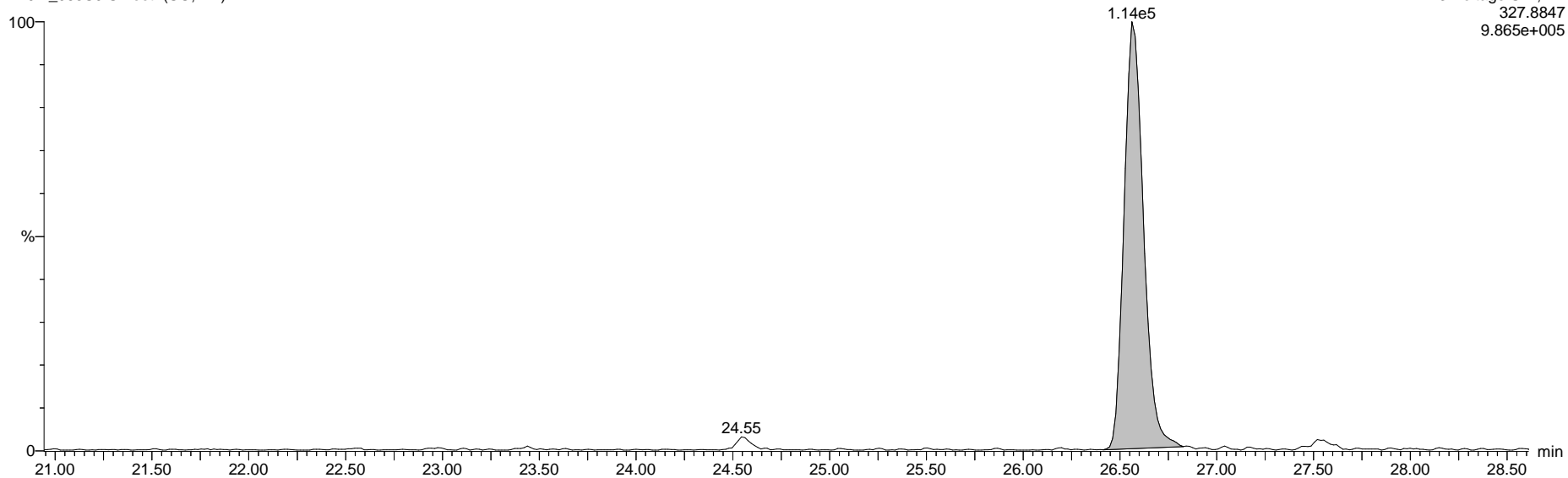


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

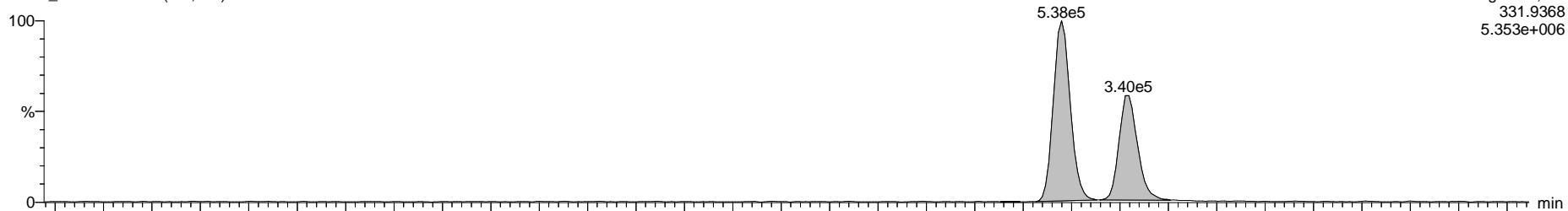
37Cl-2,3,7,8-TCDD

DX9M_083S9 Smooth(SG,1x2)

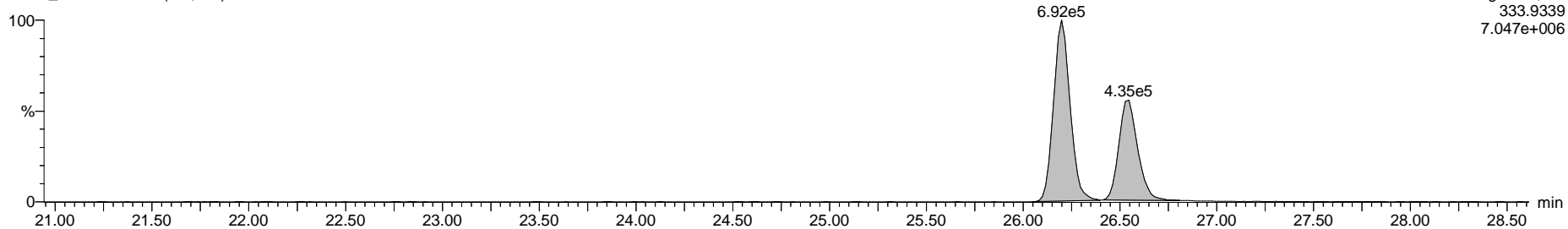


13C-1,2,3,4-TCDD

DX9M_083S9 Smooth(SG,1x2)



DX9M_083S9 Smooth(SG,1x2)



PV WL 14-JUL-2009

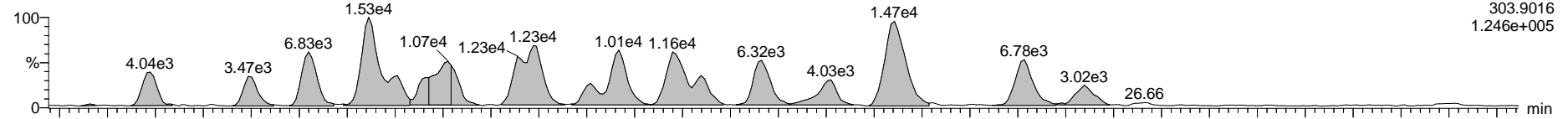


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

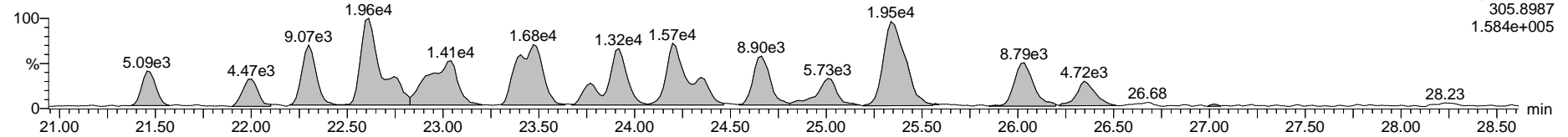
Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S9 Smooth(SG,1x2)

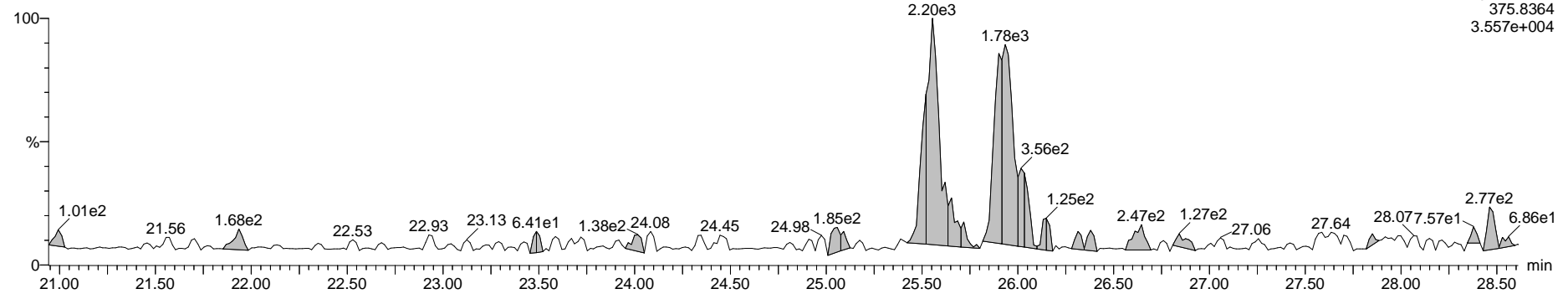


DX9M_083S9 Smooth(SG,1x2)



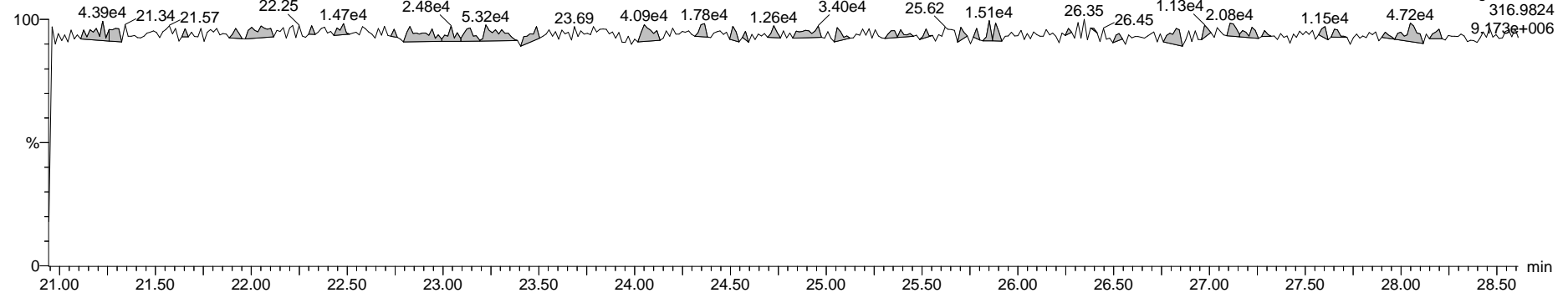
Hexa DPE

DX9M_083S9 Smooth(SG,1x2)



Tetra Lock

DX9M_083S9



PV WL 14-JUL-2009



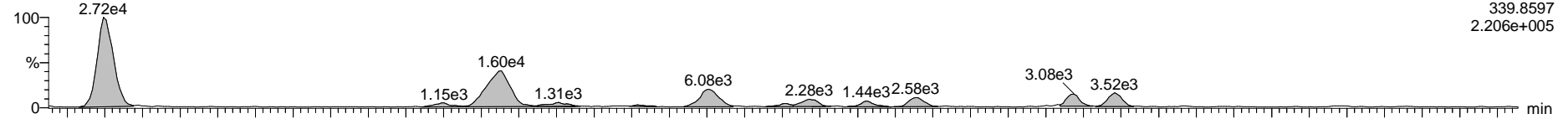
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

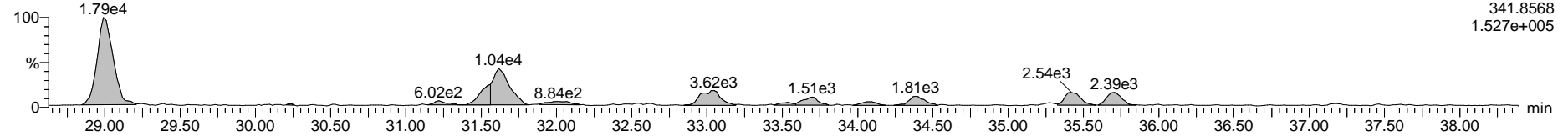
DX9M_083S9 Smooth(SG,1x2)

F4:Voltage SIR,EI+
339.8597
2.206e+005



DX9M_083S9 Smooth(SG,1x2)

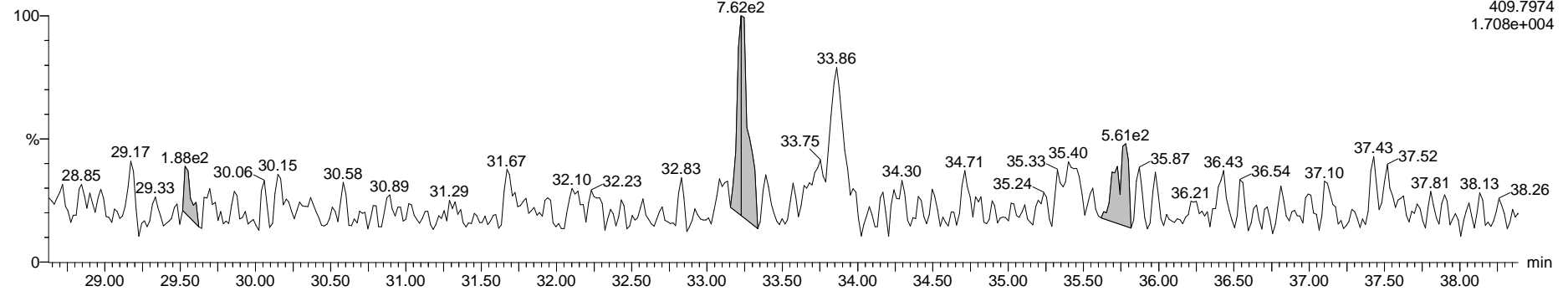
F4:Voltage SIR,EI+
341.8568
1.527e+005



Hepta DPE

DX9M_083S9 Smooth(SG,1x2)

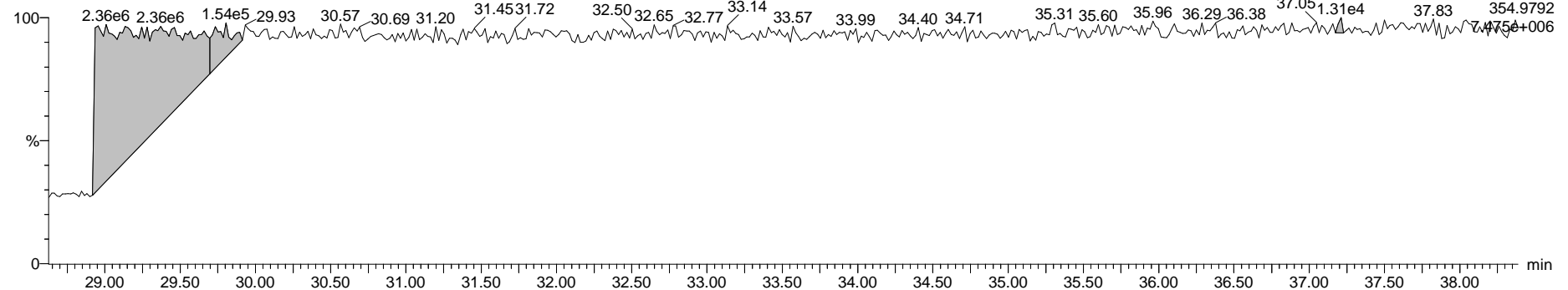
F4:Voltage SIR,EI+
409.7974
1.708e+004



Penta Lock

DX9M_083S9

F4:Voltage SIR,EI+
354.9792
7.475e+006



PV WL 14-JUL-2009

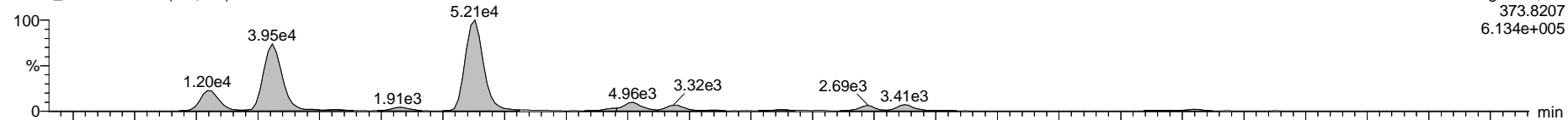


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

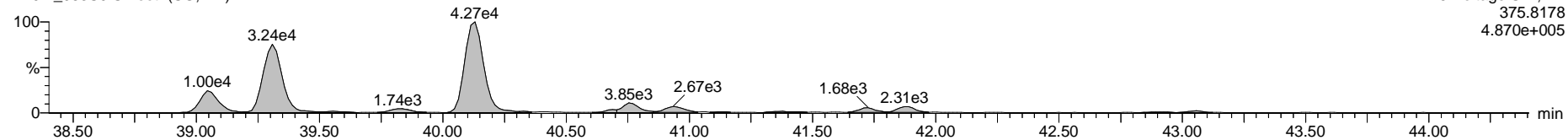
Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S9 Smooth(SG,1x2)

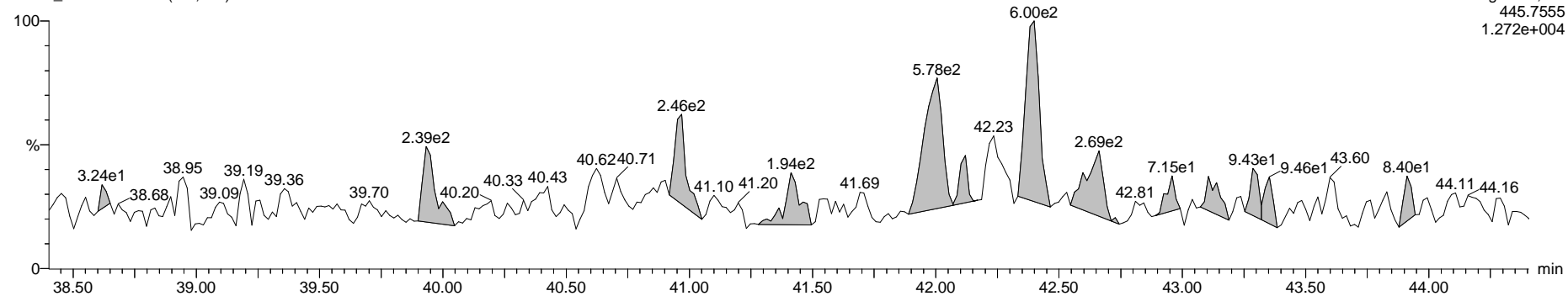


DX9M_083S9 Smooth(SG,1x2)



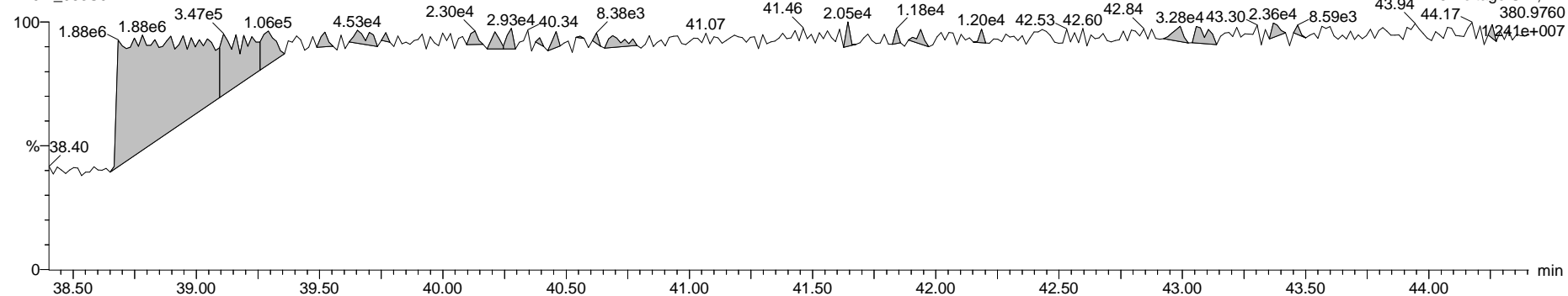
Octa DPE

DX9M_083S9 Smooth(SG,1x2)



Hexa Lock

DX9M_083S9

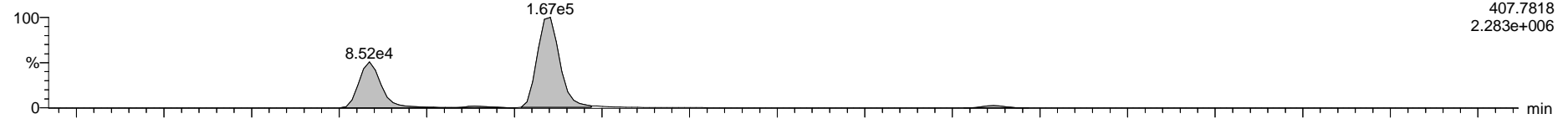


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

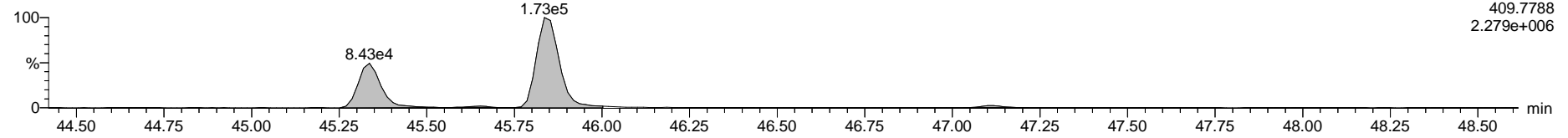
Total Hepta-Furans

DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
2.283e+006

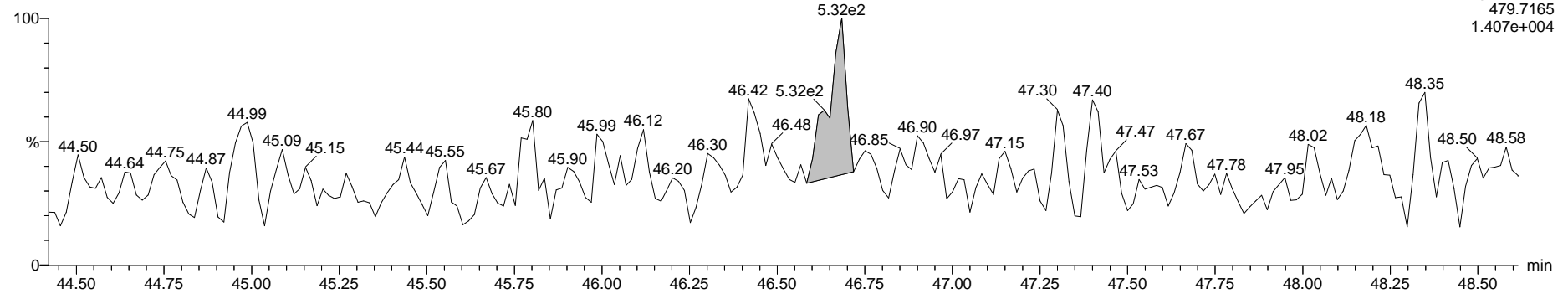
DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
2.279e+006

Nona DPE

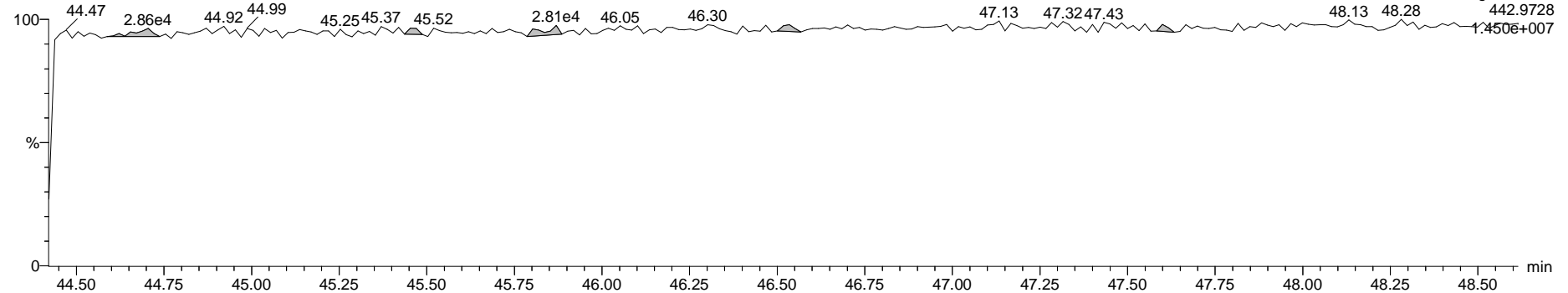
DX9M_083S9 Smooth(SG,1x2)



F6:Voltage SIR,EI+
479.7165
1.407e+004

Hepta Lock

DX9M_083S9



F6:Voltage SIR,EI+
442.9728
1.450e+007

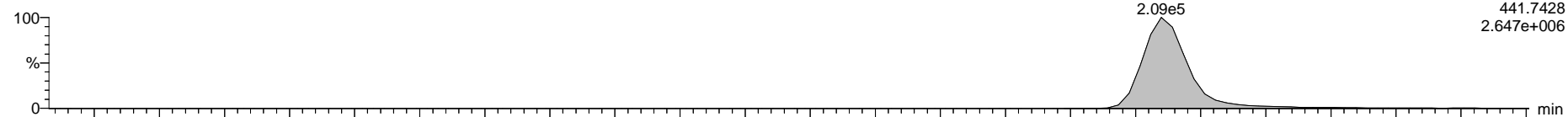


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

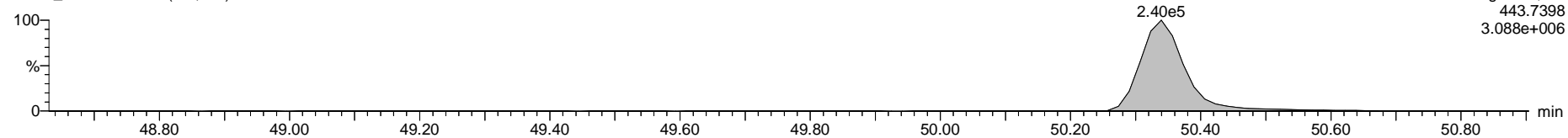
Name: DX9M_083S9, Date: 10-Jul-2009, Time: 15:46:59, ID: L12912-6,I,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S9 Smooth(SG,1x2)

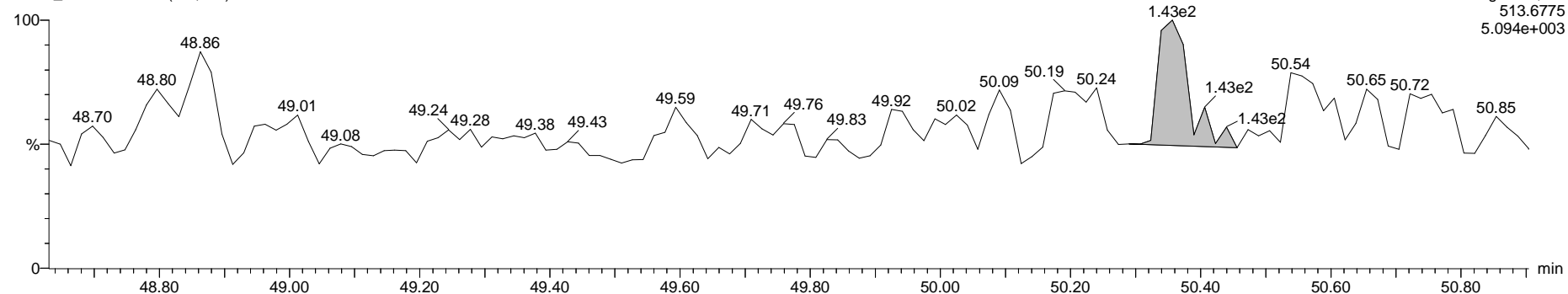


DX9M_083S9 Smooth(SG,1x2)



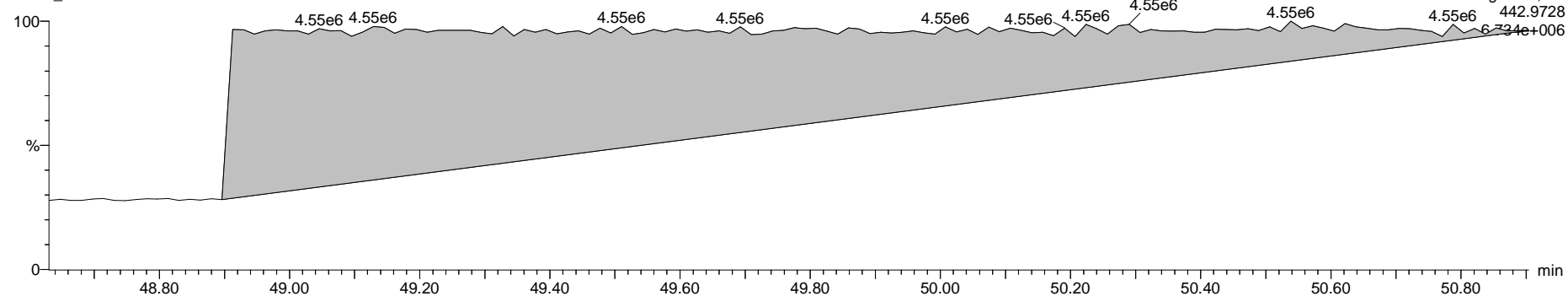
Deca DPE

DX9M_083S9 Smooth(SG,1x2)



Octa Lock

DX9M_083S9

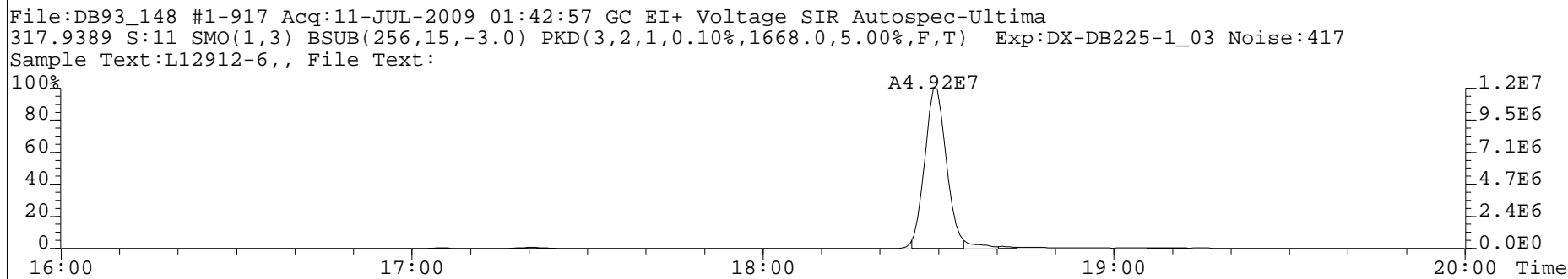
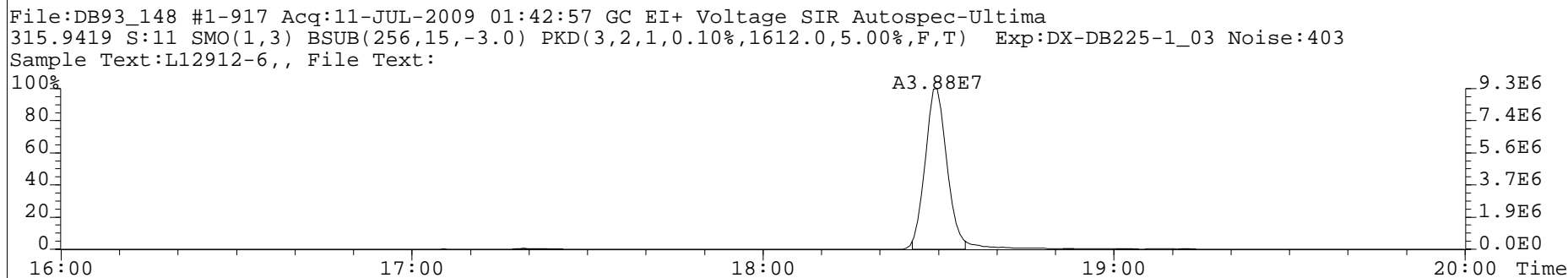
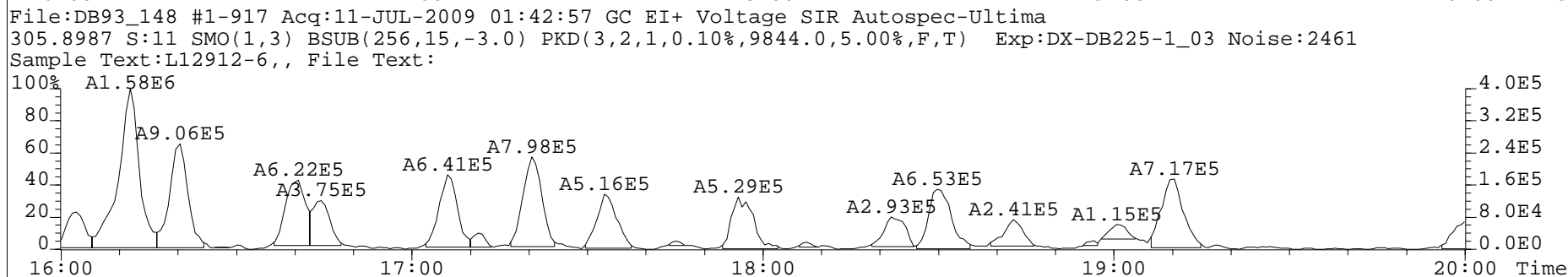
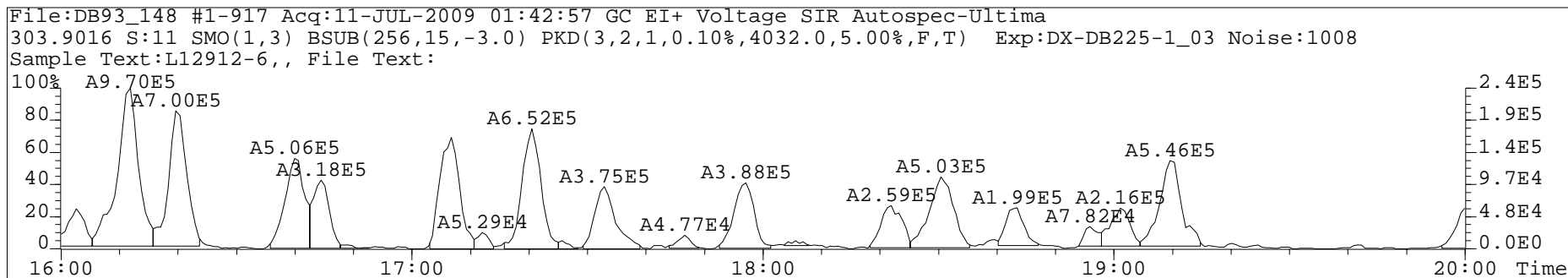


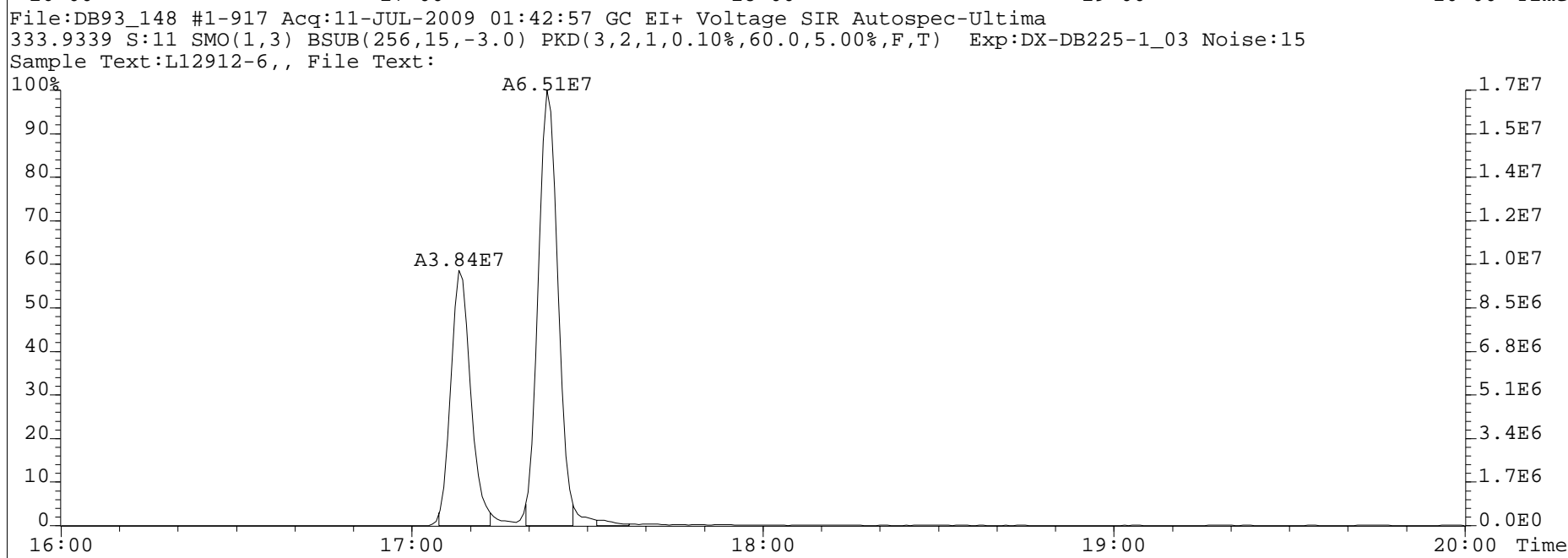
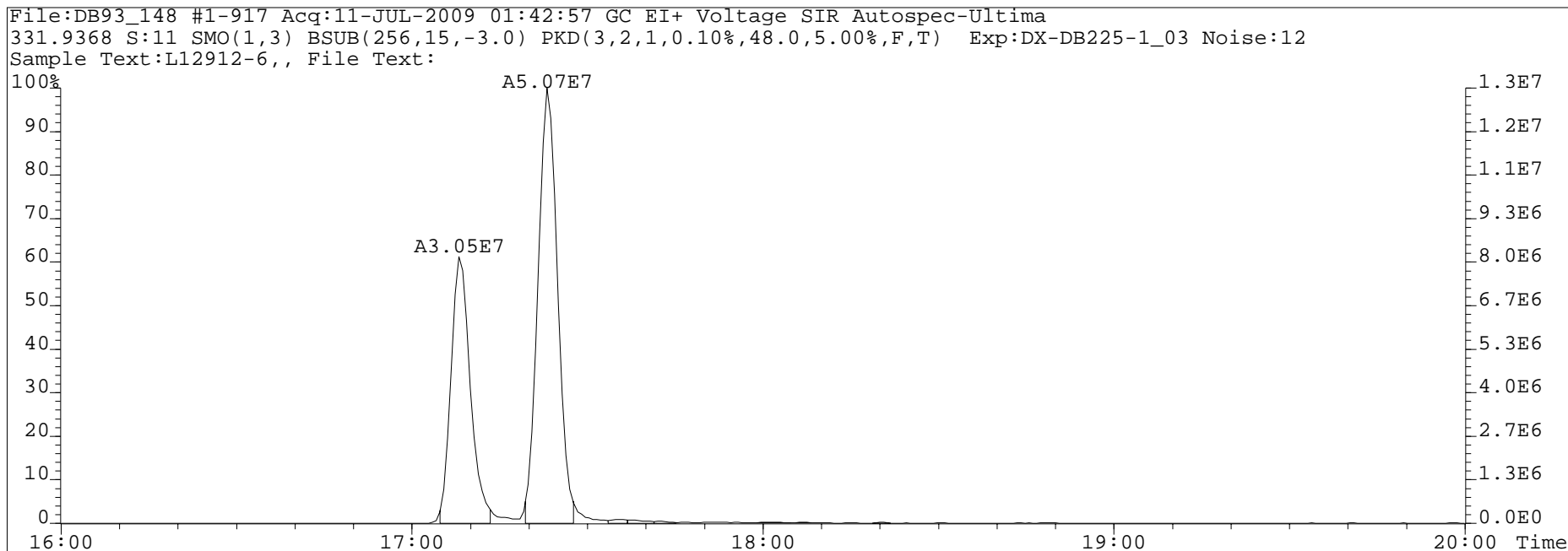
Run #15 Filename DB93_148 S: 11 I: 1 Acquired: 11-JUL-09 01:42:57 Processed: 15-JUL-09 13:58:42
 Run: db93_148-a Analyte: 1613B-db-s4 Cal: db93_146d» Results: db93_148-a Version: V3.6 6-JAN-2000 17:51:42
 Sample text: L12912-6,, Comments: 1,WG29271,2.0/20uL
 sample size: 10.280000 conc units: pg/g total toxicity: 0.33 F1: 1.0000 F2: 1.0000

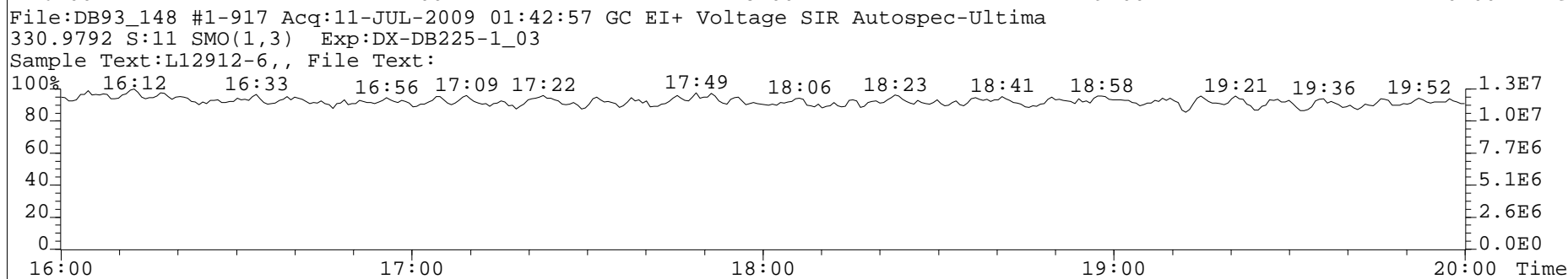
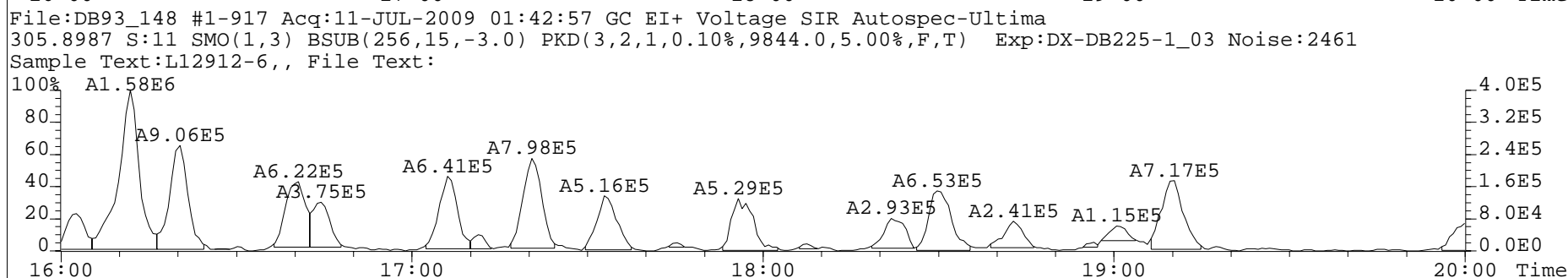
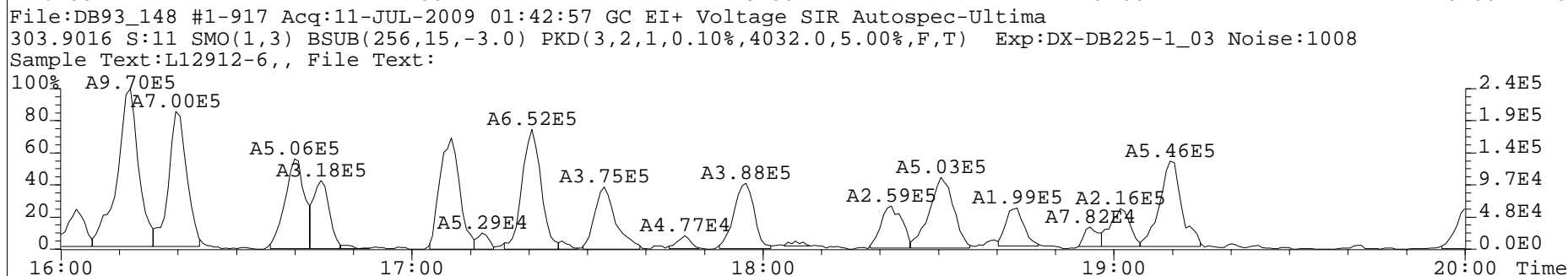
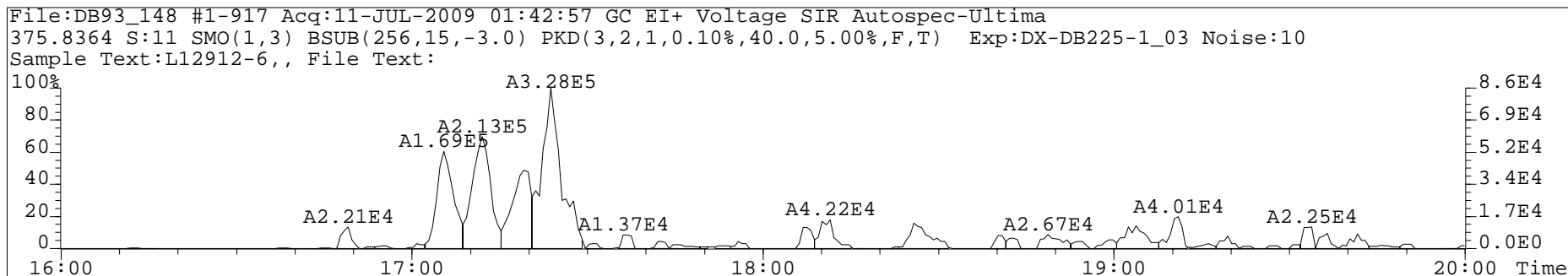
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	1.16e+06	0.77	y 18:30	3.261	0	0.4071	-	y
2 IS/RT	13C-2,3,7,8-TCDF	1	8.80e+07	0.79	y 18:29	101.361	-	0.0360	52.1	n
3 RS	13C-1,2,3,4-TCDD	1	1.16e+08	0.78	y 17:23	17.126	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

AJ SVD BAA
22-Jul-09

PV BY IALL
15-Jul-09  308 61 628







Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fails?	RT	pg	DU	%Rec	Noise:1	Noise:2
1	2,3,7,8-TCDF	10.040	1.56e4	0.75	NO	25.34	3.891	0.1365		1.46e3	5.86e2
2	1,2,3,7,8-PeCDF	10.040	2.75e3	1.55	NO	33.68	0.900	0.2064		1.11e3	9.01e2
3	2,3,4,7,8-PeCDF	10.040	5.51e3	1.38	NO	35.42	1.884	0.1864		1.11e3	9.01e2
4	1,2,3,4,7,8-HxCDF	10.040	1.61e4	1.22	NO	40.77	6.409	0.1153		4.87e2	9.31e2
5	1,2,3,6,7,8-HxCDF	10.040	8.39e3	1.13	NO	40.94	3.006	0.1081		4.87e2	9.31e2
6	2,3,4,6,7,8-HxCDF	10.040	8.54e3	1.12	NO	41.87	3.757	0.1261		4.87e2	9.31e2
7	1,2,3,7,8,9-HxCDF	10.040	7.91e2	1.01	YES	42.91	0.378	0.1407		4.87e2	9.31e2
8	1,2,3,4,6,7,8-HpCDF	10.040	3.98e5	1.01	NO	45.34	184.960	0.2118		1.26e3	1.20e3
9	1,2,3,4,7,8,9-HpCDF	10.040	1.83e4	0.97	NO	47.10	10.016	0.2546		1.26e3	1.20e3
10	OCDF	10.040	1.44e6	0.86	NO	50.34	801.606	0.1371		9.14e2	4.18e2
11	2,3,7,8-TCDD	10.040	2.39e3	0.54	YES	26.56	0.673	0.1304		7.10e2	9.53e2
12	1,2,3,7,8-PeCDD	10.040	9.03e3	0.63	NO	36.23	3.594	0.2411		1.29e3	1.02e3
13	1,2,3,4,7,8-HxCDD	10.040	9.83e3	1.23	NO	42.15	4.879	0.1914		1.07e3	8.71e2
14	1,2,3,6,7,8-HxCDD	10.040	6.50e4	1.19	NO	42.28	28.858	0.1753		1.07e3	8.71e2
15	1,2,3,7,8,9-HxCDD	10.040	2.77e4	1.17	NO	42.69	13.199	0.1862		1.07e3	8.71e2
16	1,2,3,4,6,7,8-HpCDD	10.040	1.19e6	1.04	NO	46.70	553.511	0.2646		1.51e3	1.71e3
17	OCDD	10.040	9.03e6	0.87	NO	50.26	4671.153	0.1090		6.06e2	5.37e2
18	13C-2,3,7,8-TCDF	10.040	1.05e6	0.75	NO	25.31	123.026	0.2307	61.8	4.93e3	2.51e3
19	13C-1,2,3,7,8-PeCDF	10.040	7.31e5	1.54	NO	33.64	123.188	0.1782	61.8	2.46e3	1.55e3
20	13C-2,3,4,7,8-PeCDF	10.040	6.88e5	1.56	NO	35.40	119.203	0.1831	59.8	2.46e3	1.55e3
21	13C-1,2,3,4,7,8-HxCDF	10.040	5.22e5	0.50	NO	40.74	114.280	0.2181	57.4	3.36e3	1.50e3
22	13C-1,2,3,6,7,8-HxCDF	10.040	6.09e5	0.51	NO	40.92	114.418	0.1874	57.4	3.36e3	1.50e3
23	13C-2,3,4,6,7,8-HxCDF	10.040	5.21e5	0.49	NO	41.86	106.822	0.2043	53.6	3.36e3	1.50e3
24	13C-1,2,3,7,8,9-HxCDF	10.040	5.16e5	0.50	NO	42.89	113.267	0.2190	56.9	3.36e3	1.50e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.040	4.06e5	0.44	NO	45.32	110.787	0.2122	55.6	2.07e3	1.71e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.040	3.80e5	0.44	NO	47.10	112.730	0.2303	56.6	2.07e3	1.71e3
27	13C-2,3,7,8-TCDD	10.040	7.89e5	0.77	NO	26.55	120.752	0.4243	60.6	2.83e3	7.69e3
28	13C-1,2,3,7,8-PeCDD	10.040	5.70e5	0.64	NO	36.21	134.891	0.2654	67.7	3.03e3	1.23e3
29	13C-1,2,3,4,7,8-HxCDD	10.040	4.91e5	1.25	NO	42.14	112.270	0.2074	56.4	2.47e3	1.95e3
30	13C-1,2,3,6,7,8-HxCDD	10.040	5.92e5	1.24	NO	42.27	115.900	0.1776	58.2	2.47e3	1.95e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.040	4.46e5	1.01	NO	46.68	116.303	0.1957	58.4	1.24e3	2.40e3
32	13C-OCDD	10.040	8.31e5	0.89	NO	50.24	190.914	0.2406	47.9	1.31e3	3.78e3
33	13C-1,2,3,4-TCDD	10.040	1.19e6	0.79	NO	26.20	6.710	0.0156	3.4	2.83e3	7.69e3
34	13C-1,2,3,7,8,9-HxCDD	10.040	8.93e5	1.24	NO	42.69	7.904	0.0080	4.0	2.47e3	1.95e3
35	37Cl-2,3,7,8-TCDD	10.040	1.14e5			26.58	18.241	0.0902	91.6		2.13e3
36	Total Tetra-Furans	10.040					34.422	0.1365			5.86e2
37	Total Tetra-Dioxins	10.040					32.044	0.1304			9.53e2
38	Total Penta-Furans	10.040					49.706	0.1982	0.2064		9.01e2
39	Total Penta-Dioxins	10.040					41.462	0.2411			1.02e3
40	Total Hexa-Furans	10.040					187.284	0.1423	0.1407		9.31e2
41	Total Hexa-Dioxins	10.040					234.706	0.1756	0.1914		8.71e2
42	Total Hepta-Furans	10.040					699.179	0.2240	0.2546		1.20e3
43	Total Hepta-Dioxins	10.040					1127.661	0.2646			1.71e3
44	Hexa DPE	1.000	1.15e3			25.90					1.43e3
45	Hepta DPE	1.000	2.88e2			36.07					1.54e3
46	Octa DPE	1.000	1.69e2			38.65					9.67e2
47	Nona DPE	1.000	4.49e2			47.22					2.44e3
48	Deca DPE	1.000									8.77e2
49	Tetra Lock	1.000	4.01e4			26.02					4.82e5
50	Penta Lock	1.000	2.35e6			29.71					3.56e5
51	Hexa Lock	1.000	2.58e6			39.19					6.57e5
52	Hepta Lock	1.000	4.24e4			45.95					3.89e5
53	Octa Lock	1.000	4.33e6			49.88					2.00e5

PV WL 14-JUL-2009
 SWd BAA 23-Jul-09



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,,, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	¹³ C Ratio (A)	Fails?	pg
1	24.20	0.751	NO	3.044
2	23.92	0.816	NO	3.022
3	23.41	0.790	NO	4.524
4	23.04	0.727	NO	3.911
5	22.61	0.751	NO	3.782
6	22.30	0.835	NO	4.986
7	21.99	0.689	NO	1.178
8	21.46	0.781	NO	1.080
9	26.38	0.799	NO	0.693
10	26.03	0.737	NO	1.512
11	25.34	0.752	NO	3.891
12	25.01	0.730	NO	0.924
13	24.66	0.784	NO	1.876

cg

Tetradioxins

	RT	¹³ C Ratio (A)	Fails?	pg
1	24.76	0.744	NO	3.635
2	23.84	0.757	NO	2.463
3	23.44	0.739	NO	6.326
4	23.01	0.755	NO	9.048
5	27.21	0.564	YES	0.817
6	26.56	0.537	YES	0.673
7	26.40	0.721	NO	1.850
8	26.23	0.833	NO	2.139
9	25.72	0.920	YES	0.756
10	25.31	1.186	YES	2.968
11	25.16	0.720	NO	0.816
12	24.96	0.900	YES	0.522

cg

Pentafurans

	RT	¹³ C Ratio (A)	Fails?	pg
1	29.01	1.515	NO	26.703
2	35.73	1.394	NO	2.163
3	35.42	1.378	NO	1.884
4	34.39	1.201	YES	1.550
5	34.06	1.146	YES	0.430
6	33.68	1.545	NO	0.900
7	33.55	2.542	YES	0.653
8	33.03	1.457	NO	4.701
9	31.62	1.456	NO	10.723

cg

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,,, Description: 1,WG29271,1.0/20uL

Pentadioxins

	RT	1 ^o Ratio (A...	Fails?	pg
1	34.31	0.652	NO	4.055
2	33.97	0.680	NO	5.110
3	33.30	0.606	NO	4.531
4	32.16	0.631	NO	13.145
5	37.14	0.606	NO	0.920
6	36.54	0.469	YES	1.033
7	36.23	0.626	NO	3.594
8	35.62	0.498	YES	1.315
9	35.18	0.584	NO	2.595
10	34.98	0.677	NO	1.569
11	34.60	0.556	NO	3.614

Hexafurans

	RT	1 ^o Ratio (A...	Fails?	pg
1	39.57	1.181	NO	0.546
2	39.31	1.234	NO	50.734
3	39.04	1.213	NO	15.287
4	43.04	1.277	NO	0.993
5	42.91	1.013	YES	0.378
6	41.87	1.119	NO	3.757
7	41.71	1.250	NO	3.817
8	41.36	1.067	NO	0.660
9	40.94	1.133	NO	3.006
10	40.77	1.215	NO	6.409
11	40.13	1.201	NO	98.721
12	39.82	1.235	NO	2.976

Hexadioxins

	RT	1 ^o Ratio (A...	Fails?	pg
1	41.46	1.413	NO	4.119
2	41.26	1.197	NO	69.466
3	40.89	1.272	NO	13.491
4	40.08	1.211	NO	100.695
5	42.69	1.168	NO	13.199
6	42.28	1.192	NO	28.858
7	42.15	1.234	NO	4.879

Heptafurans

	RT	1 ^o Ratio (A...	Fails?	pg
1	47.10	0.974	NO	10.016
2	45.84	0.999	NO	498.356
3	45.65	1.072	NO	5.846
4	45.34	1.006	NO	184.960

Heptadioxins

	RT	1 ^o Ratio (A...	Fails?	pg
1	46.70	1.039	NO	553.511
2	45.79	1.020	NO	572.903
3	45.54	1.004	NO	1.246

PV WL 14-JUL-2009



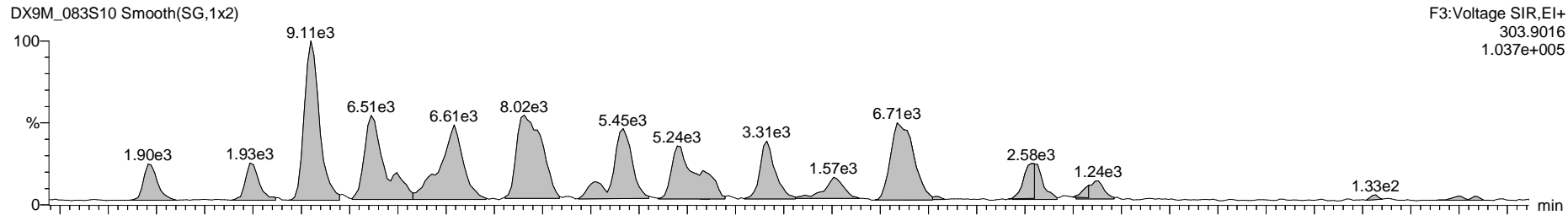
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

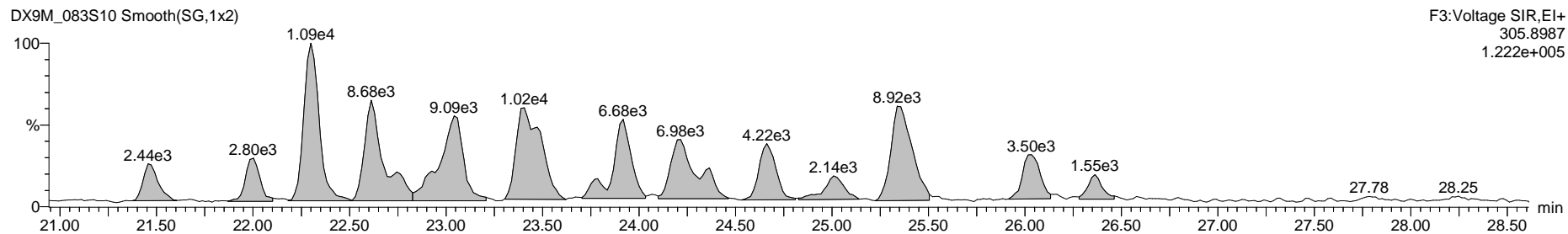
Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S10 Smooth(SG,1x2)

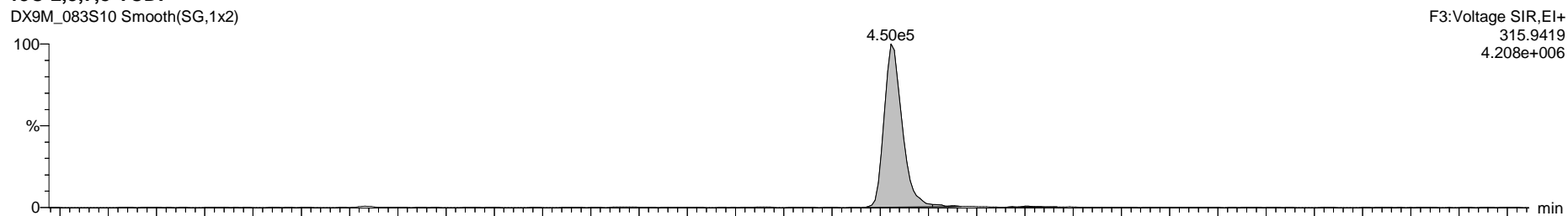


DX9M_083S10 Smooth(SG,1x2)

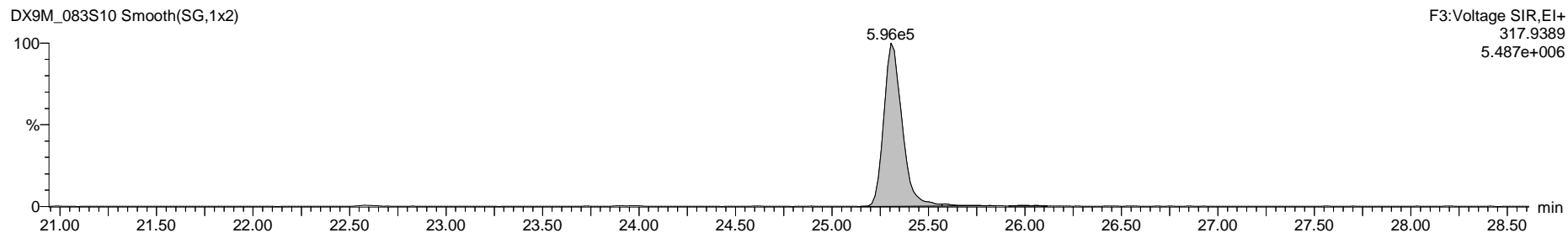


13C-2,3,7,8-TCDF

DX9M_083S10 Smooth(SG,1x2)



DX9M_083S10 Smooth(SG,1x2)



PV WL 14-JUL-2009

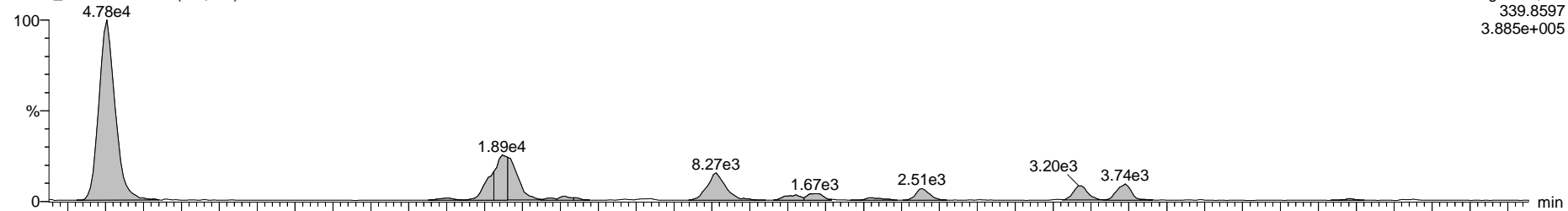


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

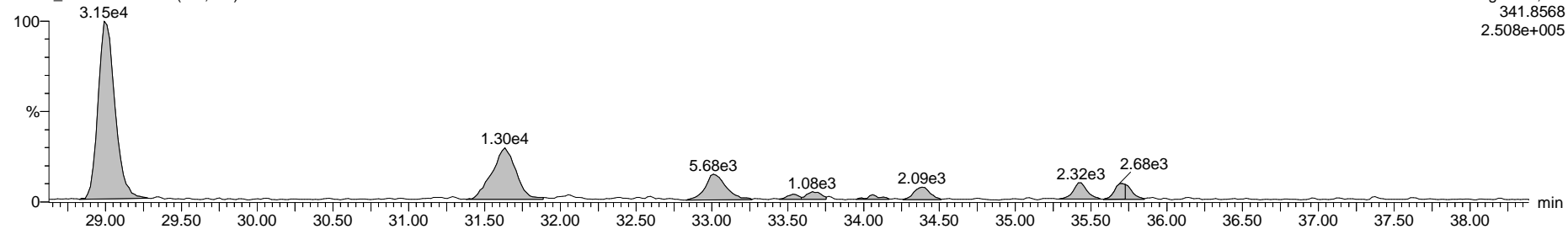
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Total Penta-Furans

DX9M_083S10 Smooth(SG,1x2)

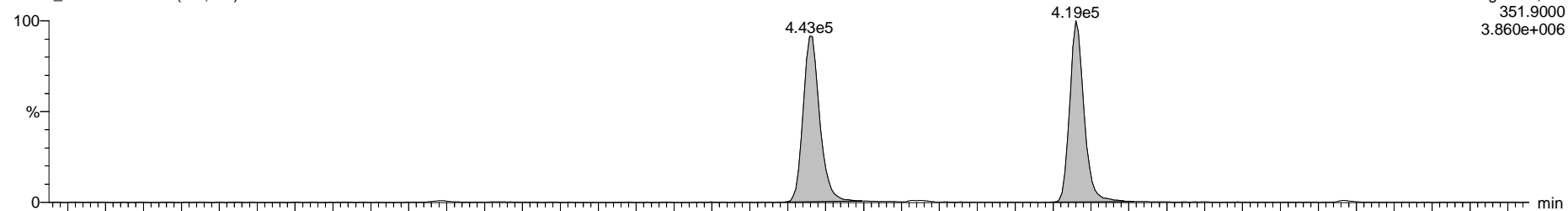


DX9M_083S10 Smooth(SG,1x2)

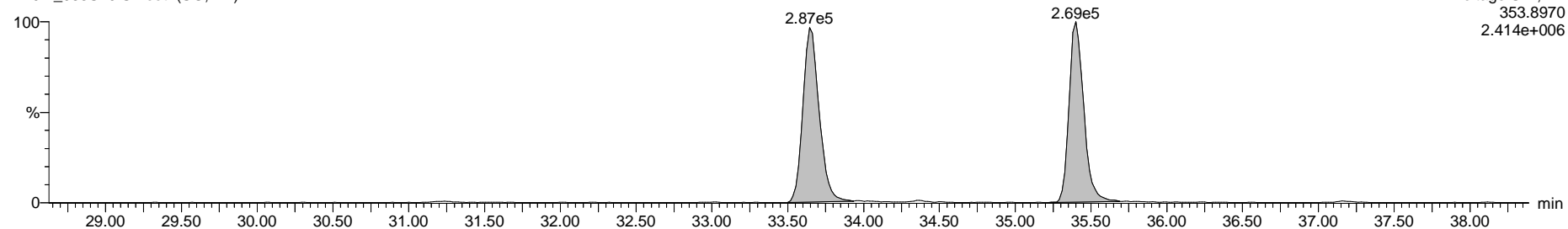


13C-1,2,3,7,8-PeCDF

DX9M_083S10 Smooth(SG,1x2)



DX9M_083S10 Smooth(SG,1x2)

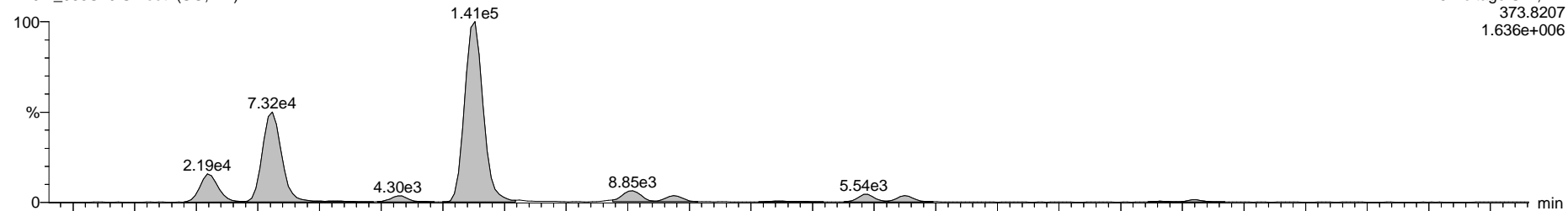


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

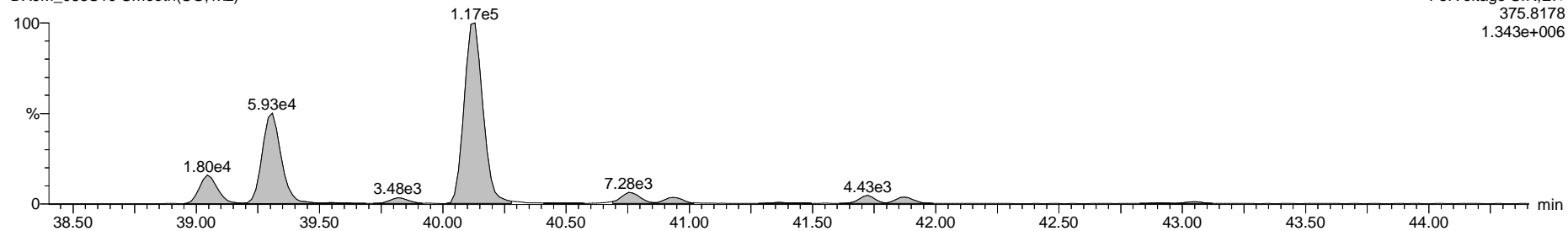
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Total Hexa-Furans

DX9M_083S10 Smooth(SG,1x2)

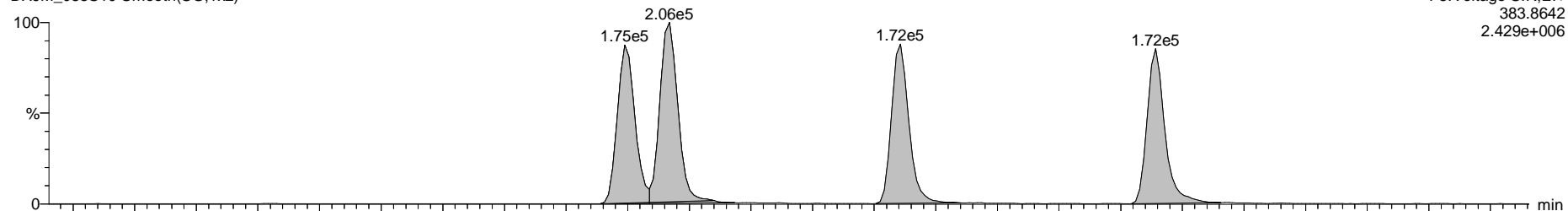


DX9M_083S10 Smooth(SG,1x2)

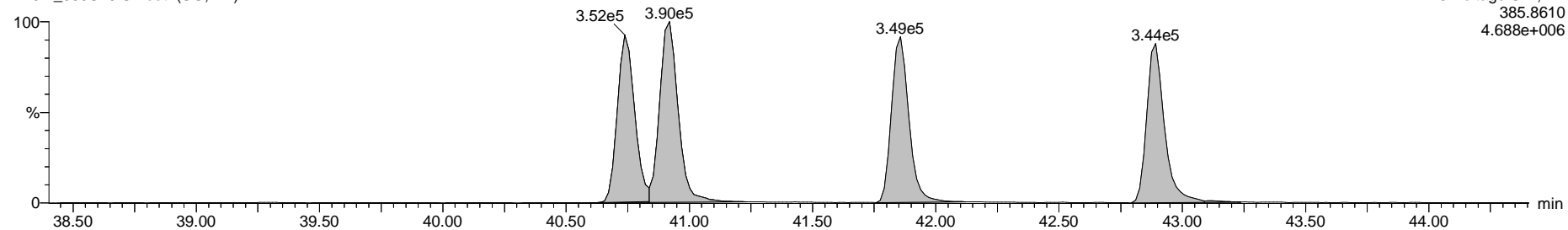


13C-1,2,3,4,7,8-HxCDF

DX9M_083S10 Smooth(SG,1x2)



DX9M_083S10 Smooth(SG,1x2)



PV WL 14-JUL-2009

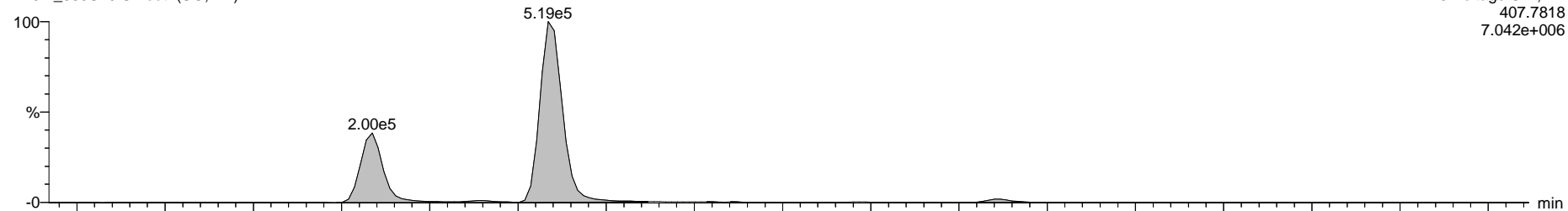


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,, Description: 1,WG29271,1.0/20uL

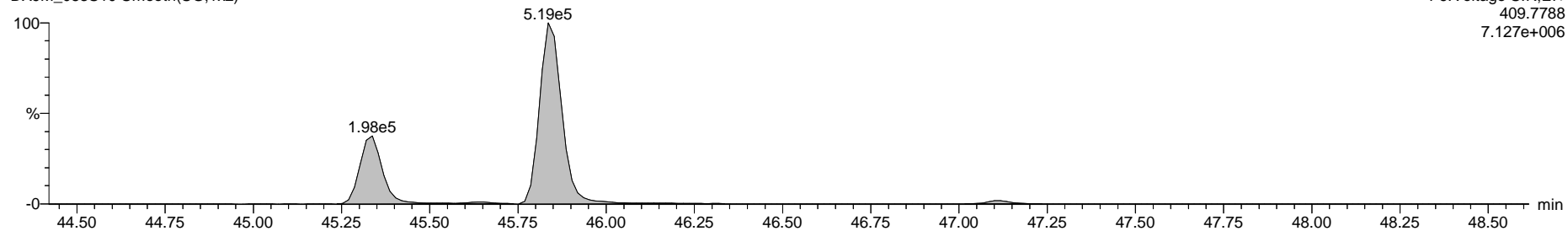
Total Hepta-Furans

DX9M_083S10 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
7.042e+006

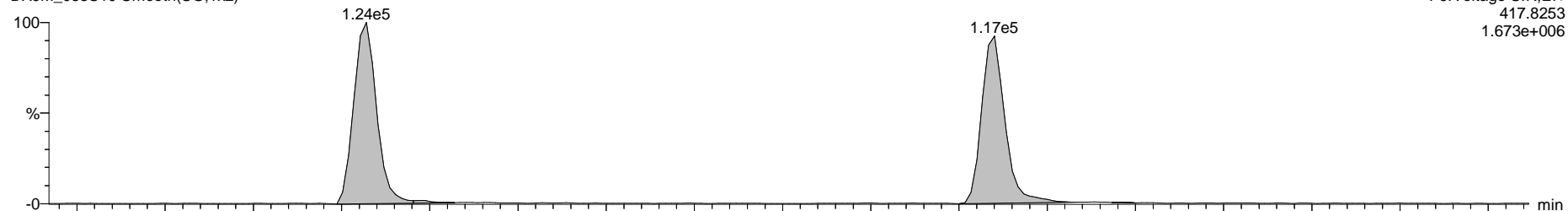
DX9M_083S10 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
7.127e+006

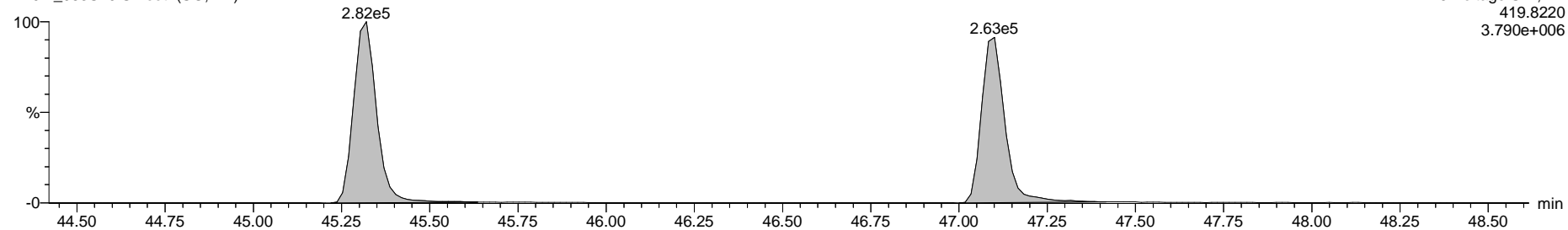
13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S10 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
1.673e+006

DX9M_083S10 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
3.790e+006

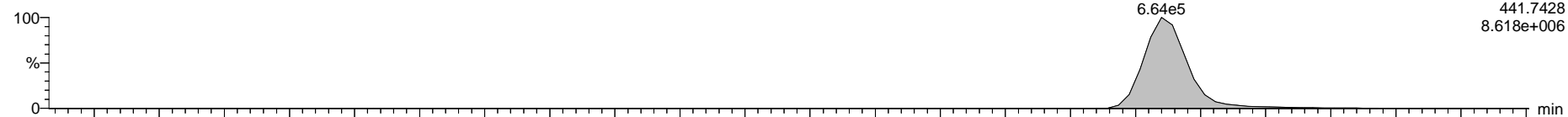


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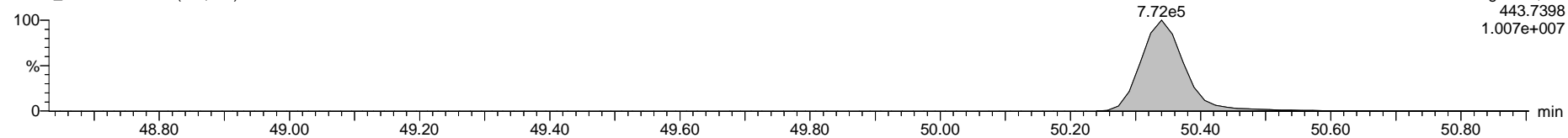
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OCDF

DX9M_083S10 Smooth(SG,1x2)

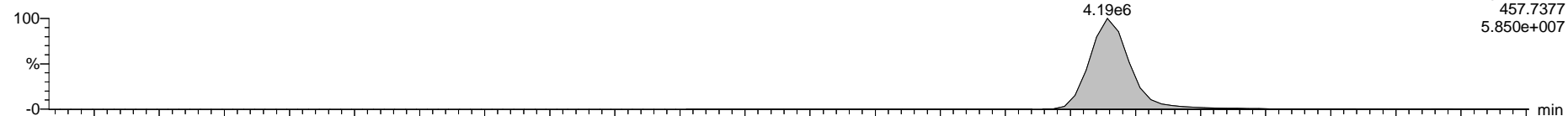


DX9M_083S10 Smooth(SG,1x2)

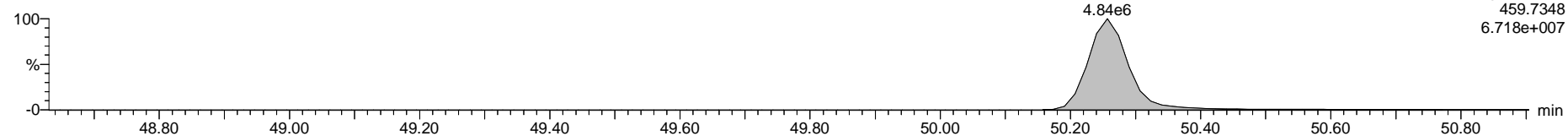


OCDD

DX9M_083S10 Smooth(SG,1x2)

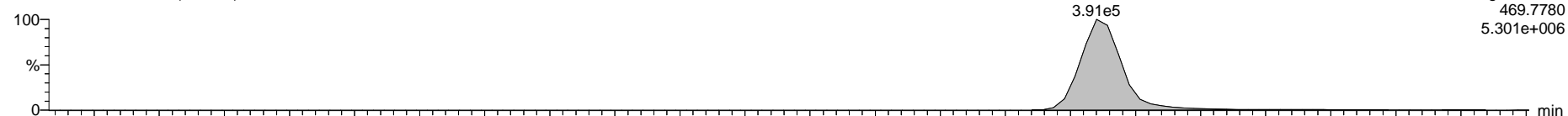


DX9M_083S10 Smooth(SG,1x2)

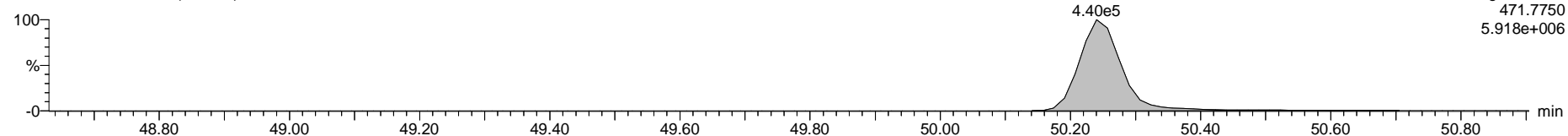


13C-OCDD

DX9M_083S10 Smooth(SG,1x2)



DX9M_083S10 Smooth(SG,1x2)

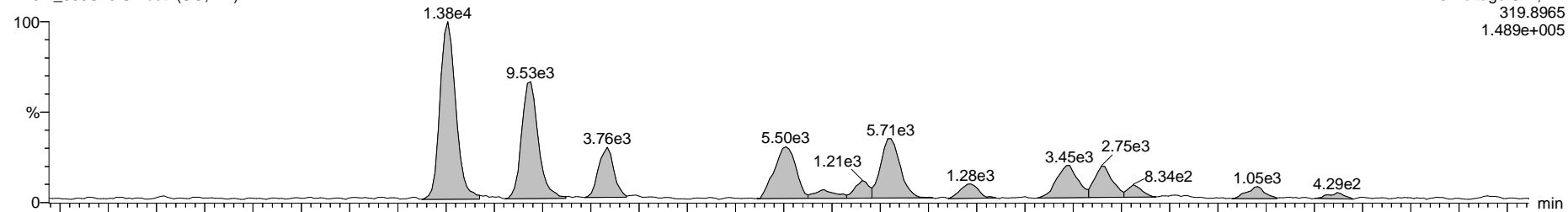


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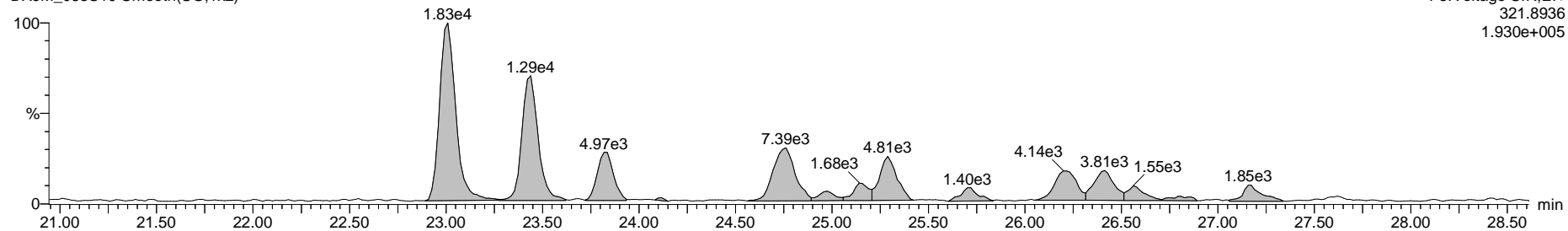
Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_083S10 Smooth(SG,1x2)

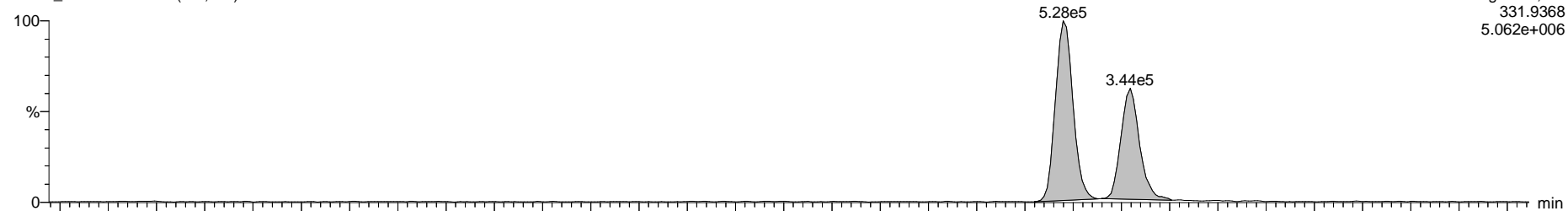


DX9M_083S10 Smooth(SG,1x2)

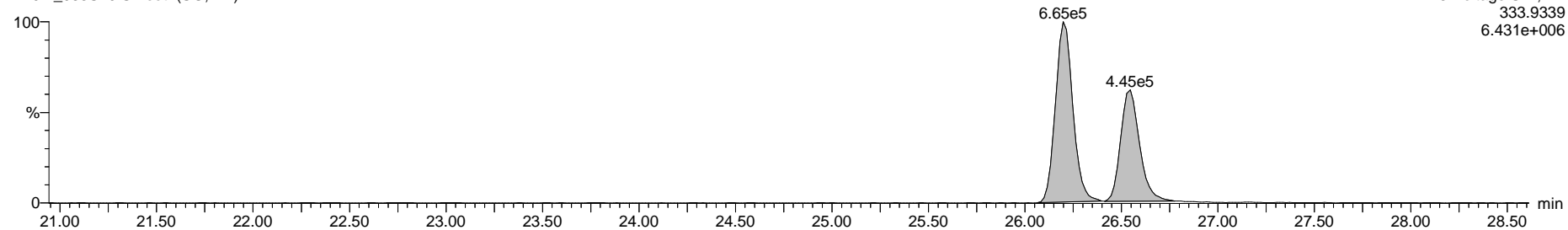


13C-2,3,7,8-TCDD

DX9M_083S10 Smooth(SG,1x2)



DX9M_083S10 Smooth(SG,1x2)

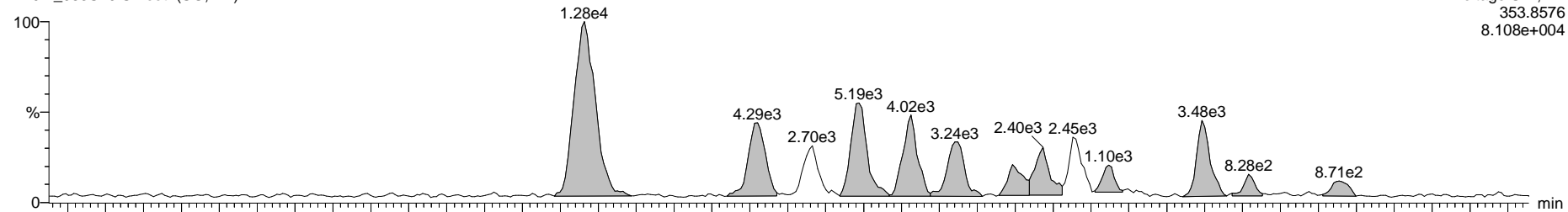


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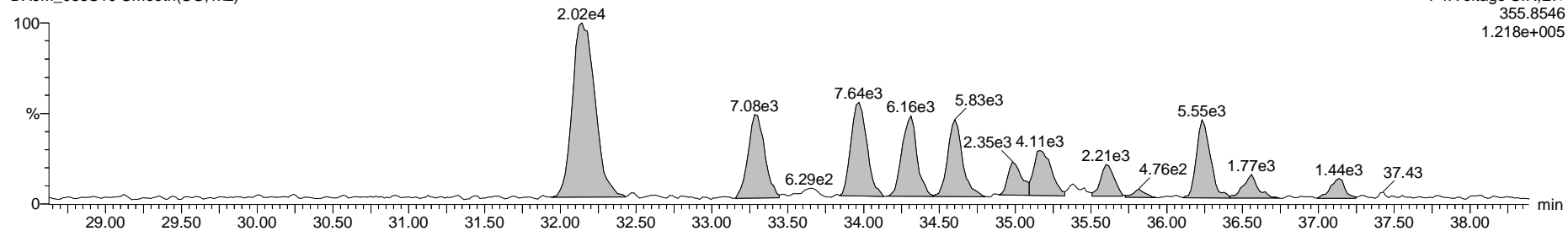
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Total Penta-Dioxins

DX9M_083S10 Smooth(SG,1x2)

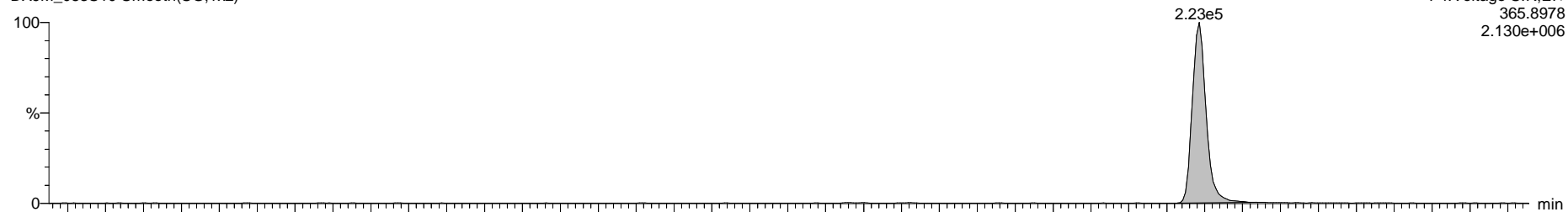


DX9M_083S10 Smooth(SG,1x2)

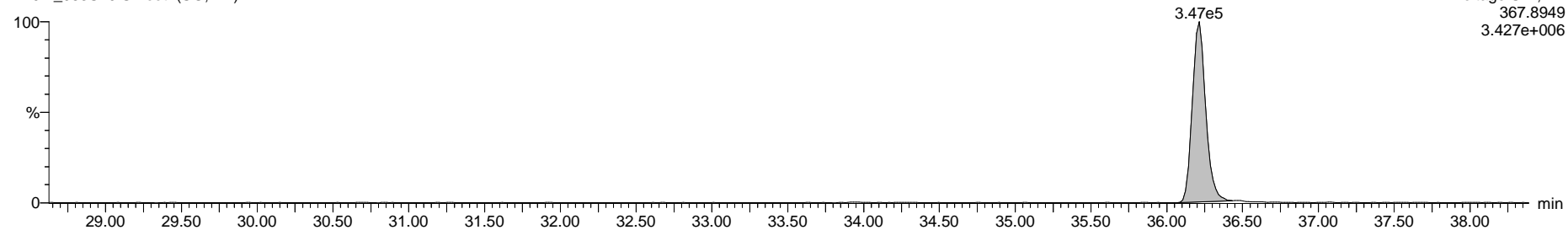


13C-1,2,3,7,8-PeCDD

DX9M_083S10 Smooth(SG,1x2)



DX9M_083S10 Smooth(SG,1x2)

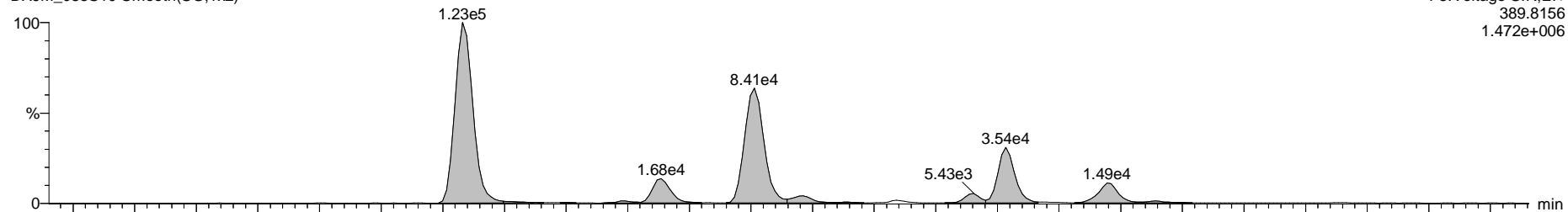


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

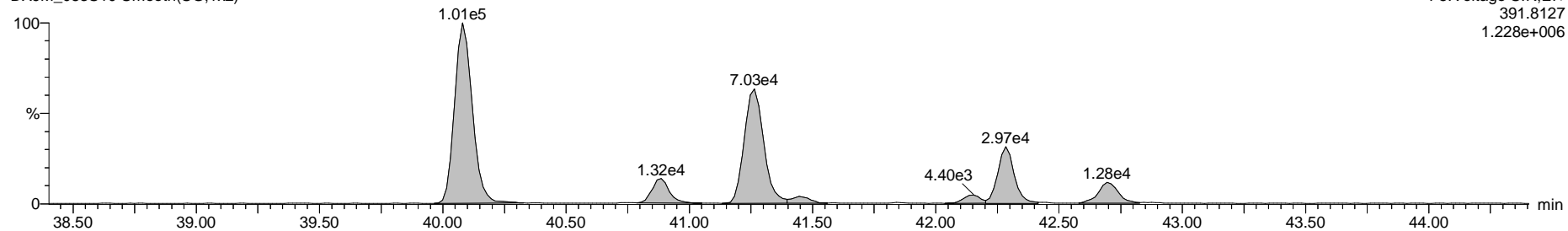
Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,,, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S10 Smooth(SG,1x2)

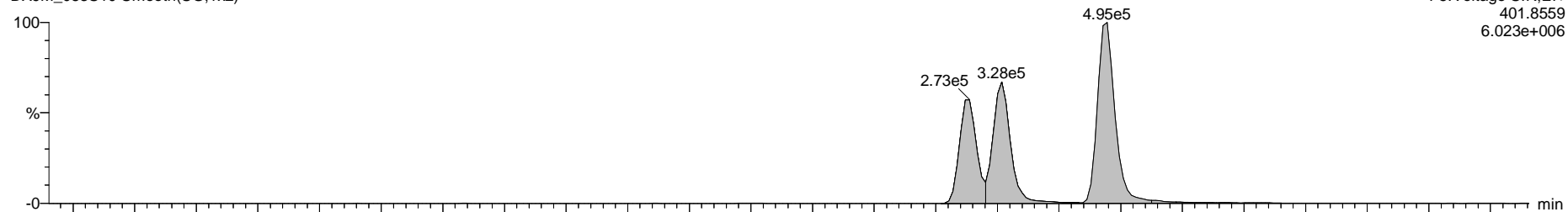


DX9M_083S10 Smooth(SG,1x2)

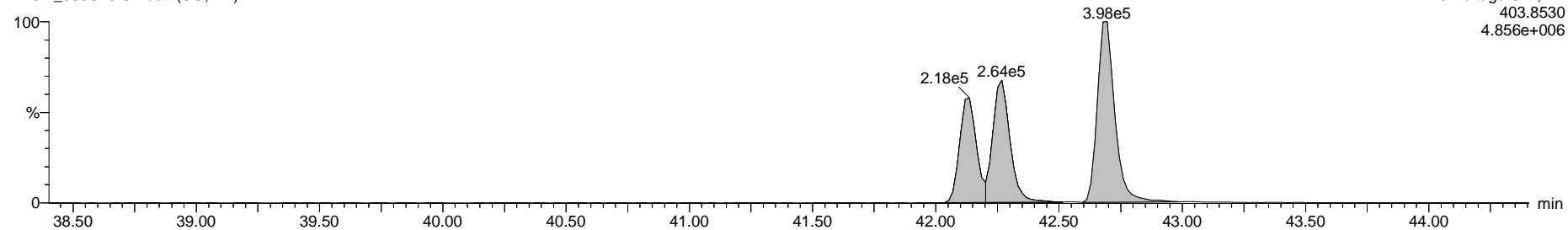


13C-1,2,3,4,7,8-HxCDD

DX9M_083S10 Smooth(SG,1x2)



DX9M_083S10 Smooth(SG,1x2)

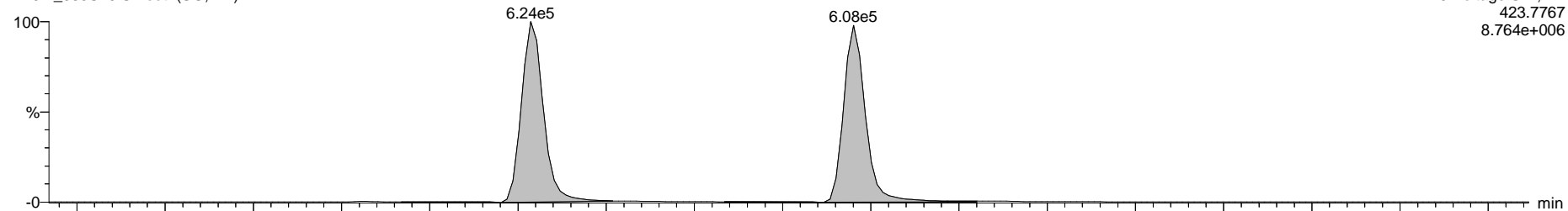


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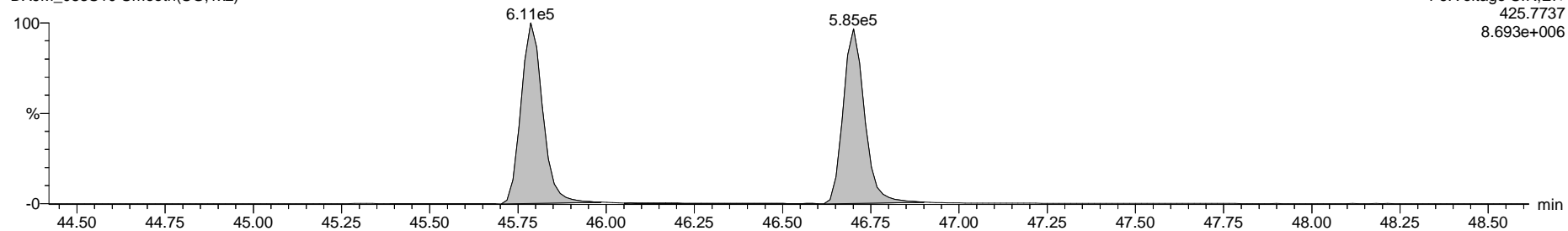
Total Hepta-Dioxins

DX9M_083S10 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
8.764e+006

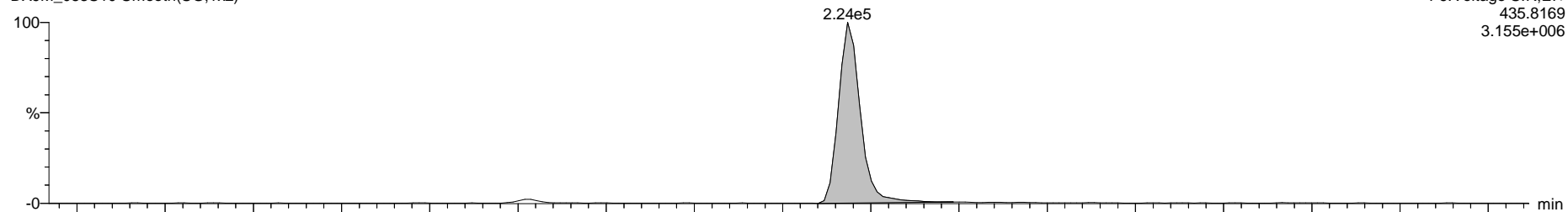
DX9M_083S10 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
8.693e+006

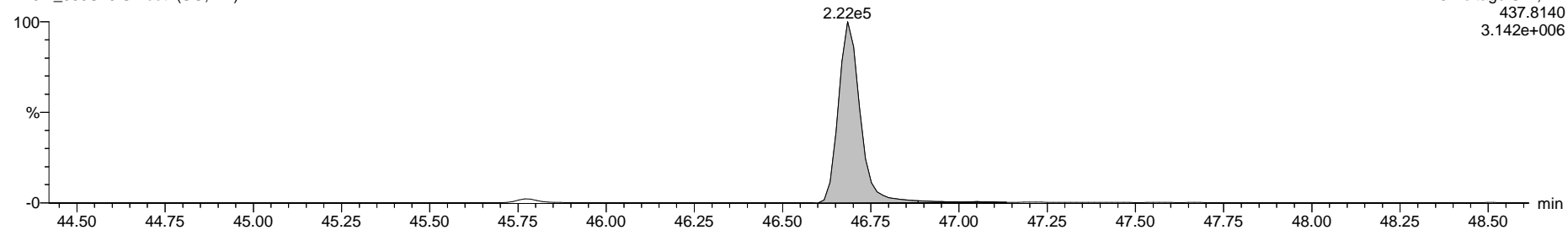
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S10 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
3.155e+006

DX9M_083S10 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
3.142e+006

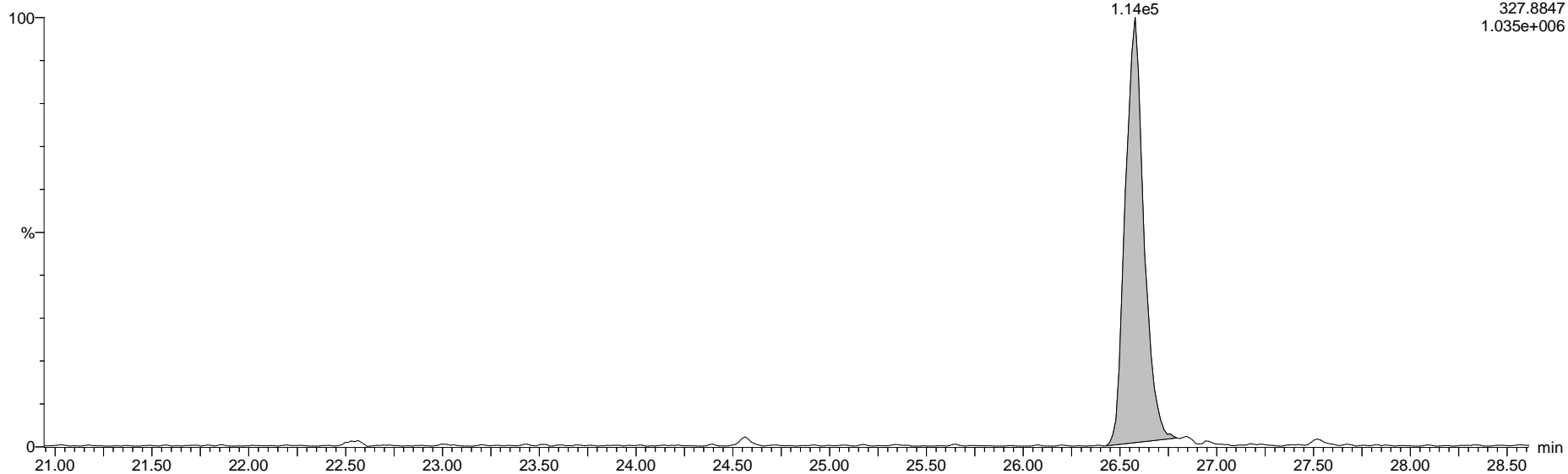


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,, Description: 1,WG29271,1.0/20uL

37Cl-2,3,7,8-TCDD

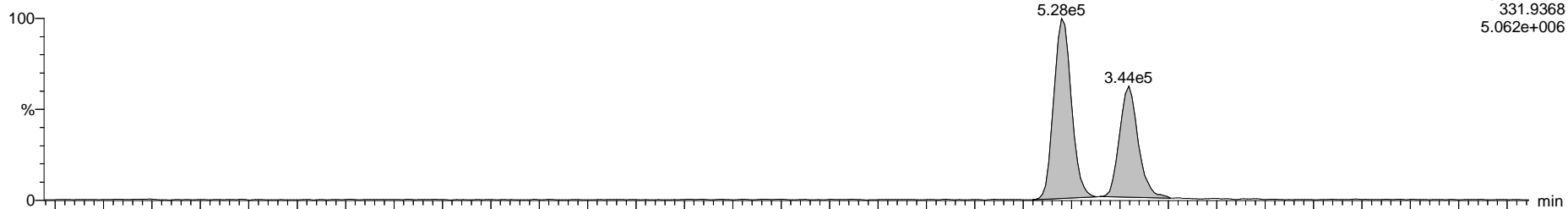
DX9M_083S10 Smooth(SG,1x2)



F3: Voltage SIR, EI+
327.8847
1.035e+006

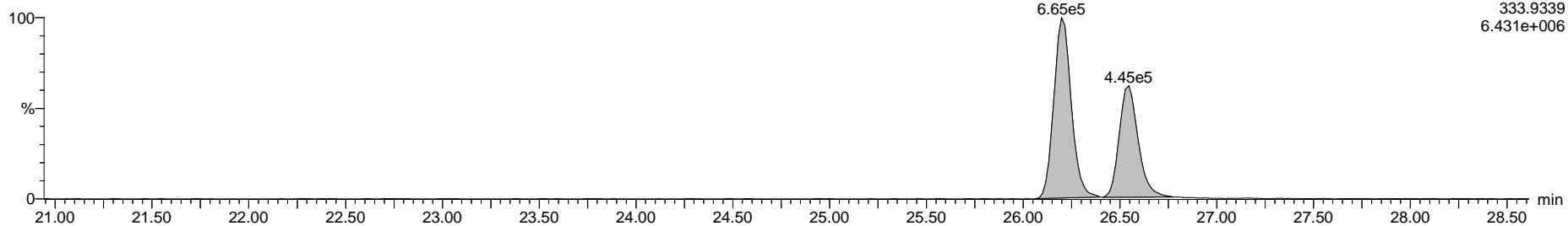
13C-1,2,3,4-TCDD

DX9M_083S10 Smooth(SG,1x2)



F3: Voltage SIR, EI+
331.9368
5.062e+006

DX9M_083S10 Smooth(SG,1x2)



F3: Voltage SIR, EI+
333.9339
6.431e+006



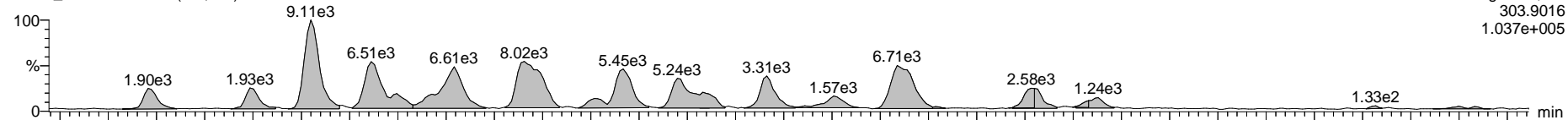
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Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

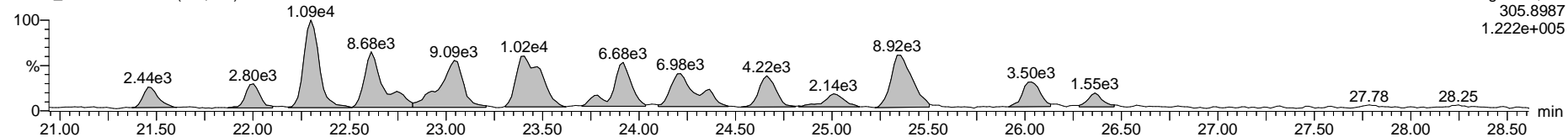
DX9M_083S10 Smooth(SG,1x2)

F3:Voltage SIR,EI+
303.9016
1.037e+005



DX9M_083S10 Smooth(SG,1x2)

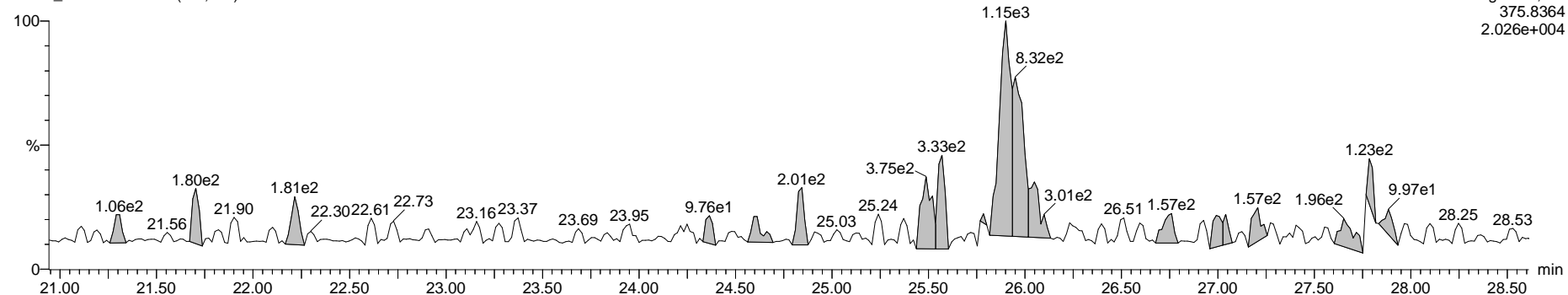
F3:Voltage SIR,EI+
305.8987
1.222e+005



Hexa DPE

DX9M_083S10 Smooth(SG,1x2)

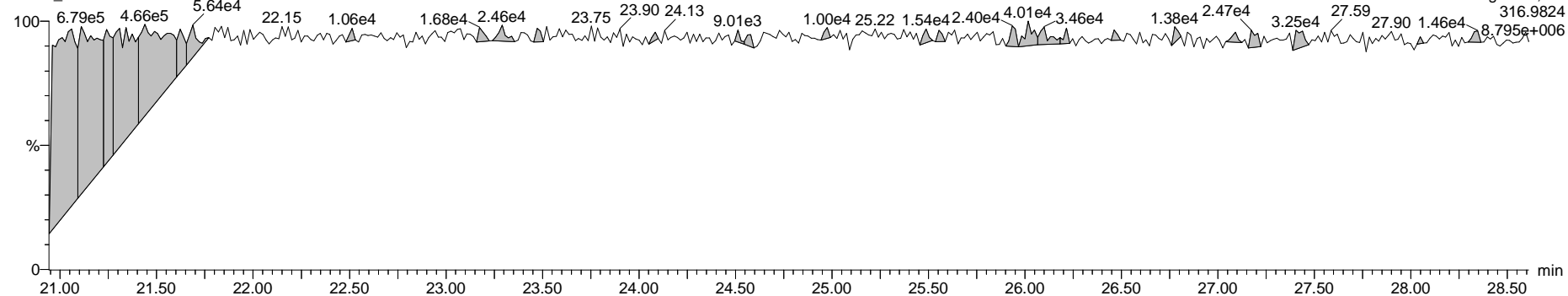
F3:Voltage SIR,EI+
375.8364
2.026e+004



Tetra Lock

DX9M_083S10

F3:Voltage SIR,EI+
316.9824
8.795e+006



PV WL 14-JUL-2009

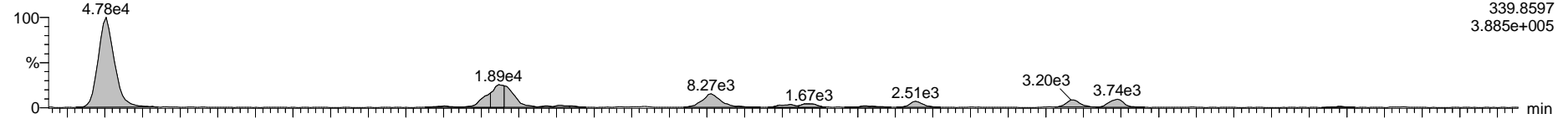


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

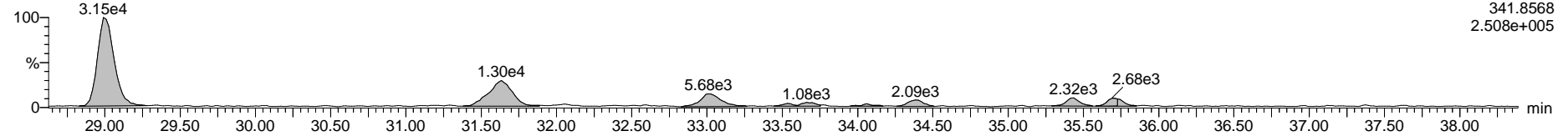
Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S10 Smooth(SG,1x2)

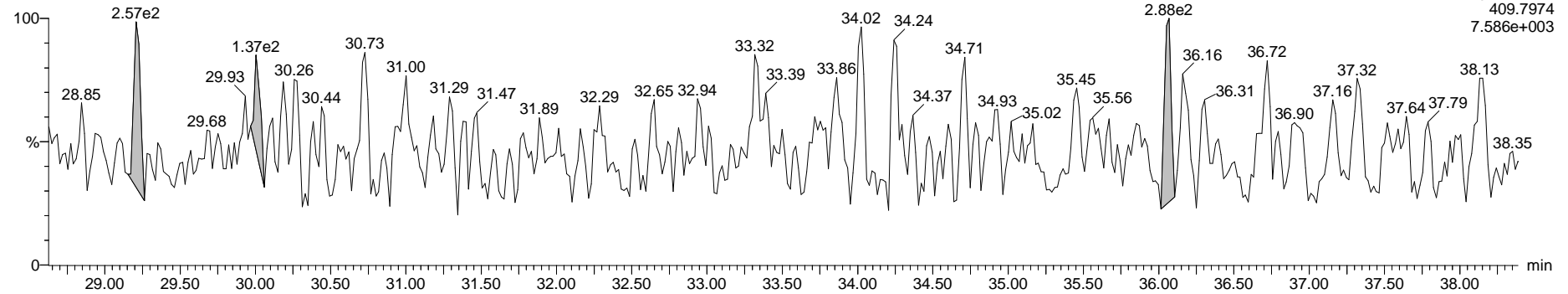


DX9M_083S10 Smooth(SG,1x2)



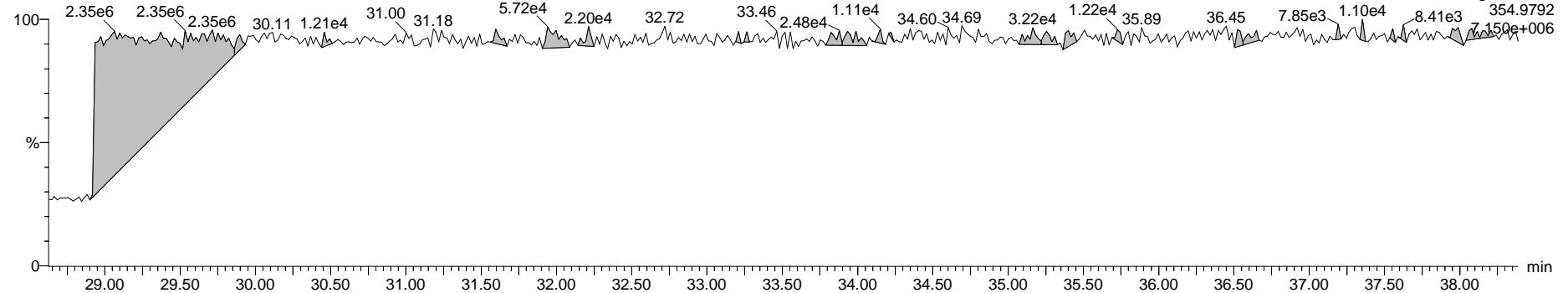
Hepta DPE

DX9M_083S10 Smooth(SG,1x2)



Penta Lock

DX9M_083S10



PV WL 14-JUL-2009

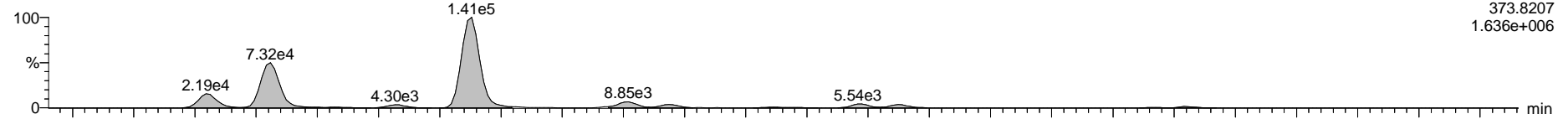


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

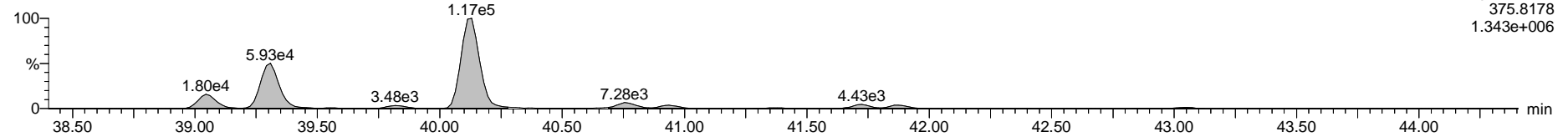
Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S10 Smooth(SG,1x2)

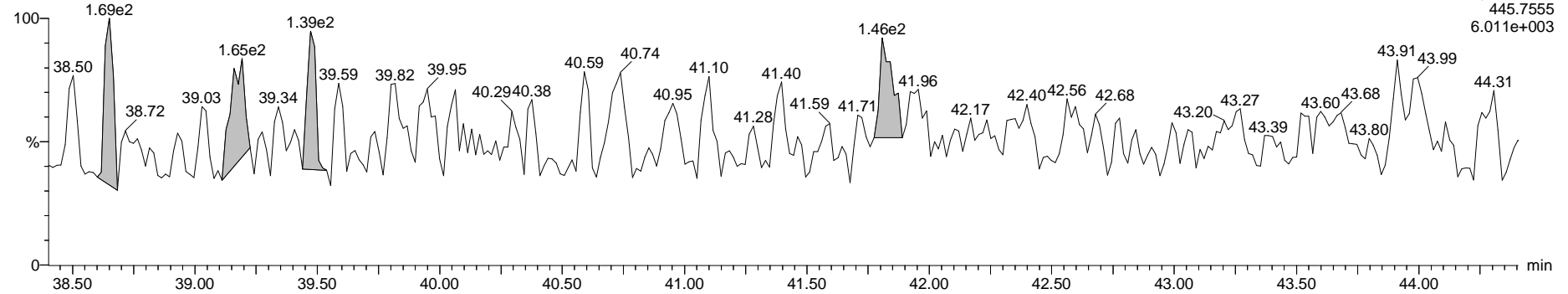


DX9M_083S10 Smooth(SG,1x2)



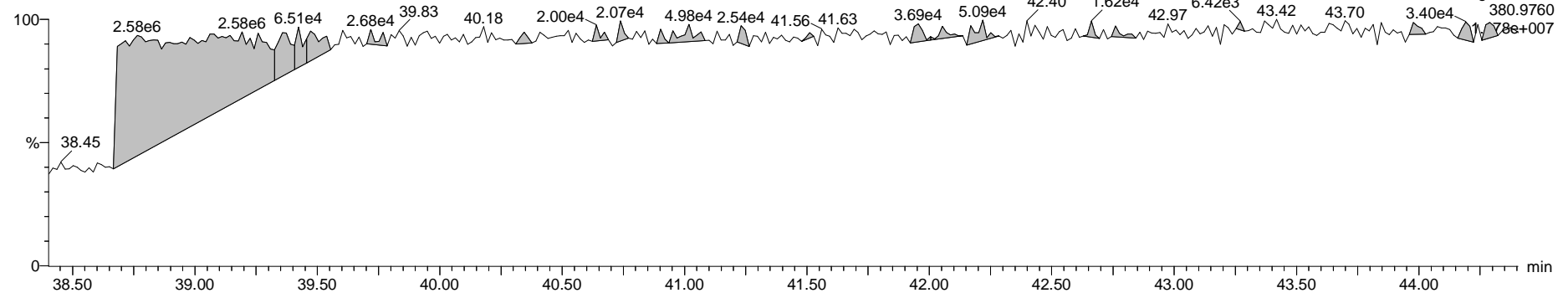
Octa DPE

DX9M_083S10 Smooth(SG,1x2)



Hexa Lock

DX9M_083S10

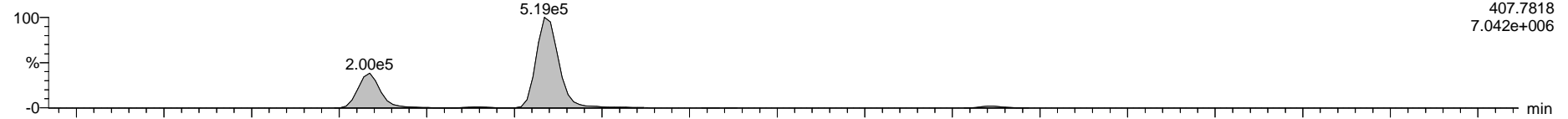


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

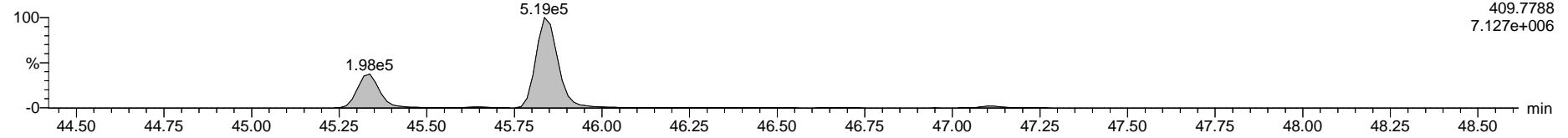
Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,, Description: 1,WG29271,1.0/20uL

Total Hepta-Furans

DX9M_083S10 Smooth(SG,1x2)

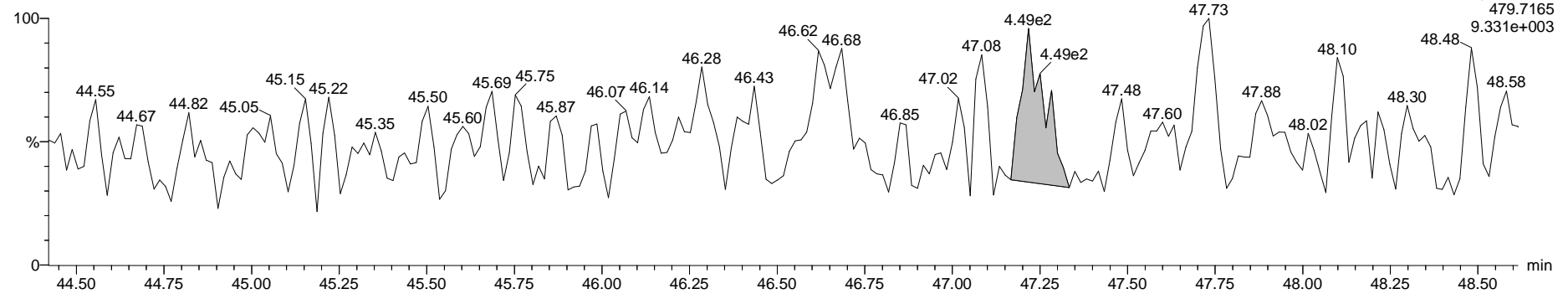


DX9M_083S10 Smooth(SG,1x2)



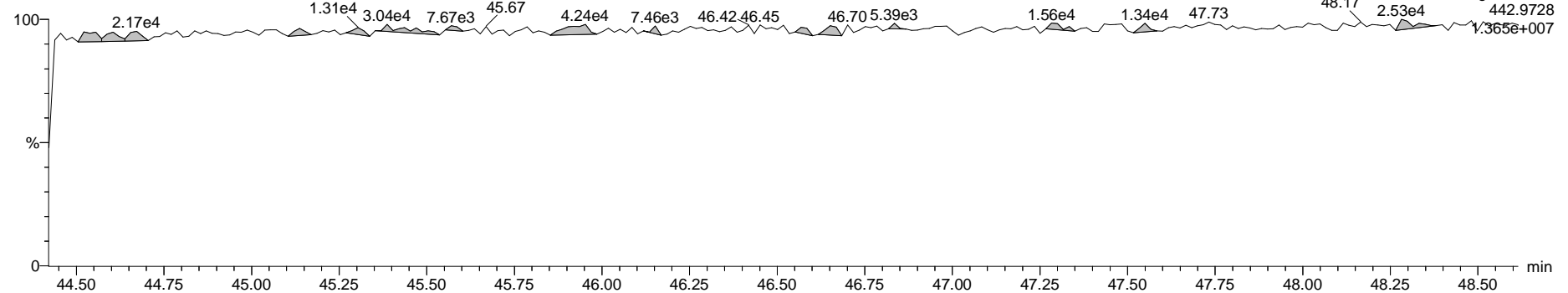
Nona DPE

DX9M_083S10 Smooth(SG,1x2)



Hepta Lock

DX9M_083S10



PV WL 14-JUL-2009

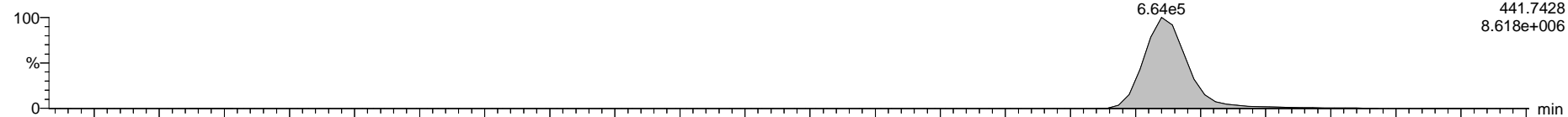


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

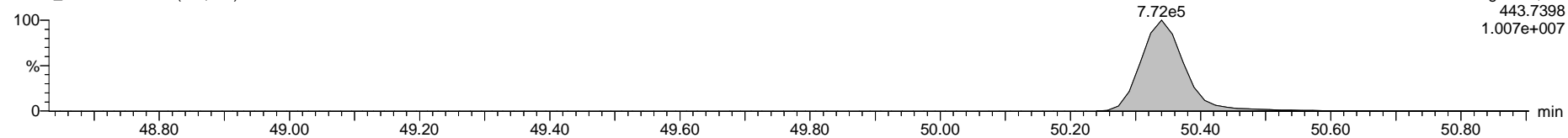
Name: DX9M_083S10, Date: 10-Jul-2009, Time: 16:41:56, ID: L12912-7,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S10 Smooth(SG,1x2)

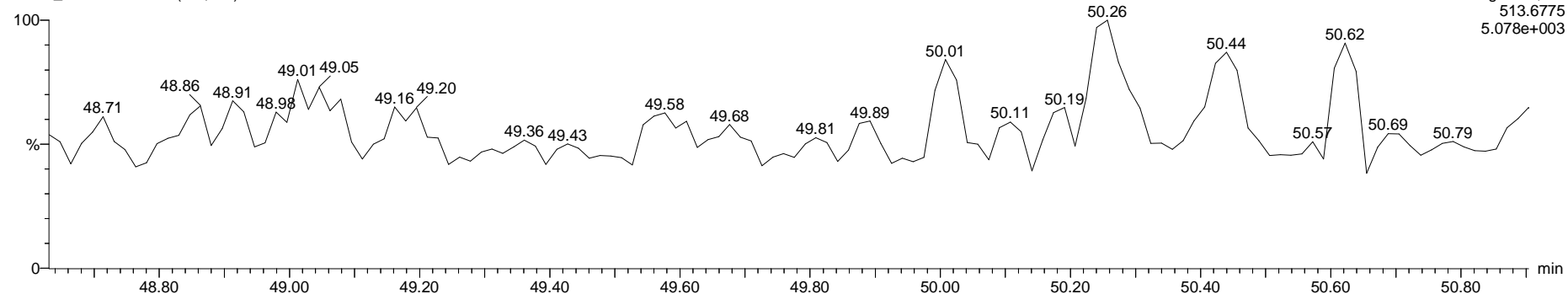


DX9M_083S10 Smooth(SG,1x2)



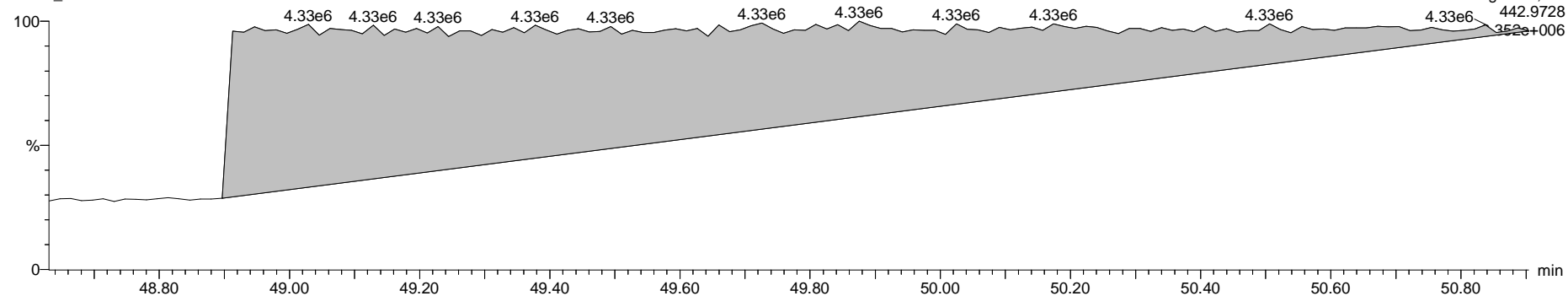
Deca DPE

DX9M_083S10 Smooth(SG,1x2)



Octa Lock

DX9M_083S10



Run #16 Filename DB93_148 S: 12 I: 1 Acquired: 11-JUL-09 02:18:35 Processed: 15-JUL-09 13:58:42
 Run: db93_148-a Analyte: 1613B-db-s4 Cal: db93_146d> Results: db93_148-a Version: V3.6 6-JAN-2000 17:51:42
 Sample text: L12912-7,, Comments: 1,WG29271,2.0/20uL
 sample size: 10.040000 conc units: pg/g total toxicity: 0.17 F1: 1.0000 F2: 1.0000

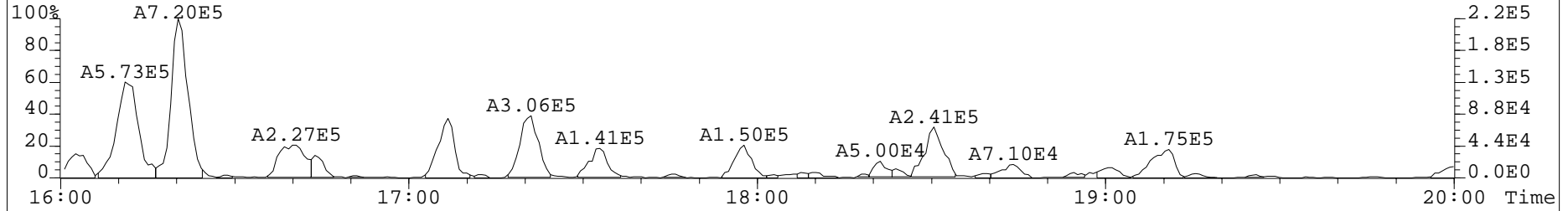
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	5.15e+05	0.88	y 18:30	1.731	0	0.1699	-	Y
2 IS/RT	13C-2,3,7,8-TCDF	1	7.56e+07	0.77	y 18:29	105.693	-	0.0007	53.1	n
3 RS	13C-1,2,3,4-TCDD	1	9.77e+07	0.79	y 17:23	14.794	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

Svd BRT
22-Jul-09

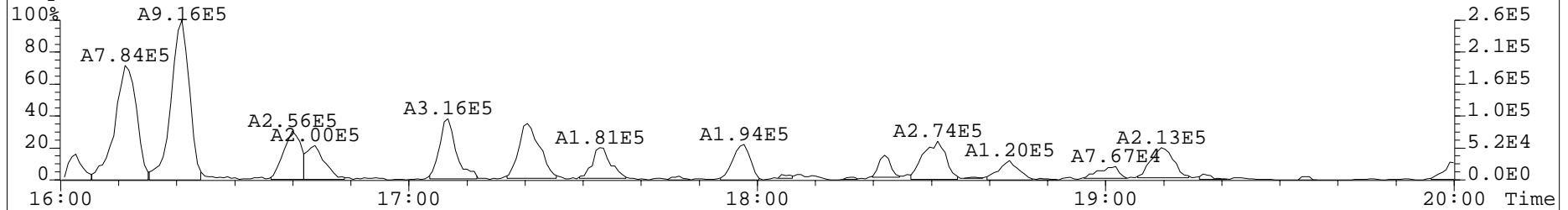
PV BY 1111
15-July 2009
Page 330 of 928



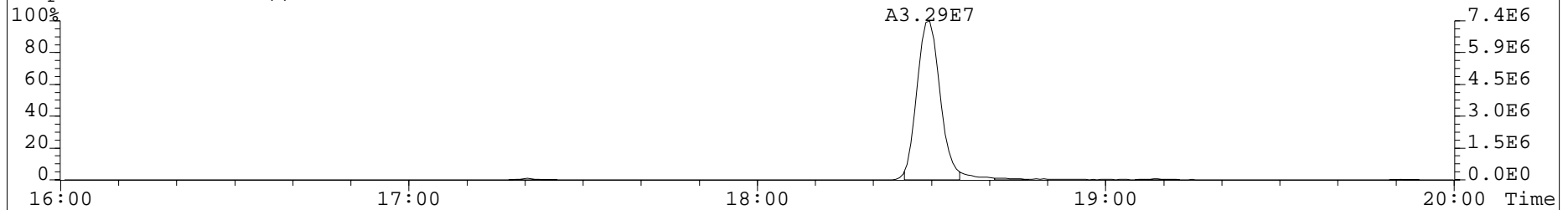
File:DB93_148 #1-918 Acq:11-JUL-2009 02:18:35 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:12 SMO(1,3) BSUB(256,15,-3.0) Exp:DX-DB225-1_03 Noise:457
 Sample Text:L12912-7,, File Text:



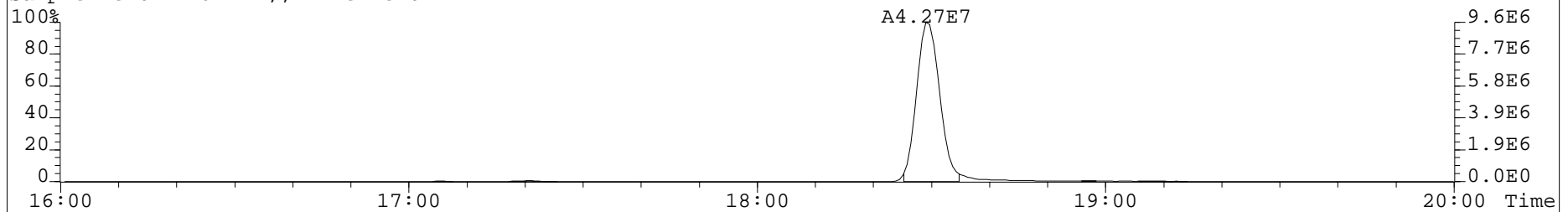
File:DB93_148 #1-918 Acq:11-JUL-2009 02:18:35 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:12 SMO(1,3) BSUB(256,15,-3.0) Exp:DX-DB225-1_03 Noise:685
 Sample Text:L12912-7,, File Text:

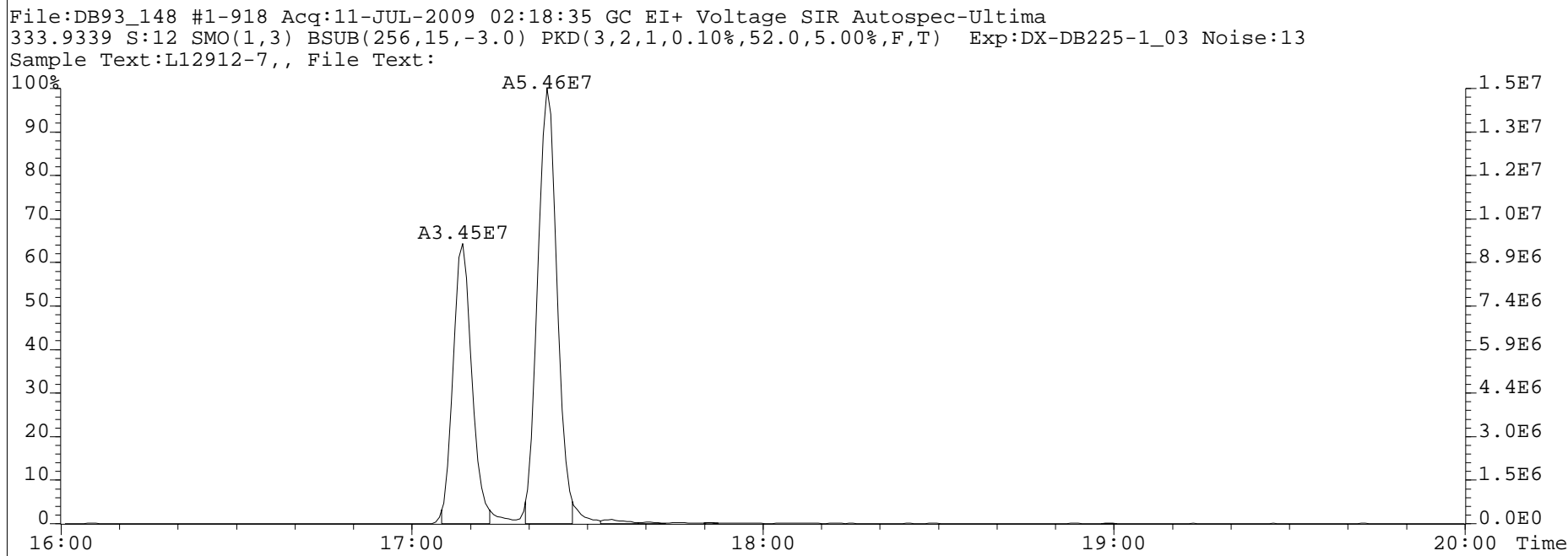
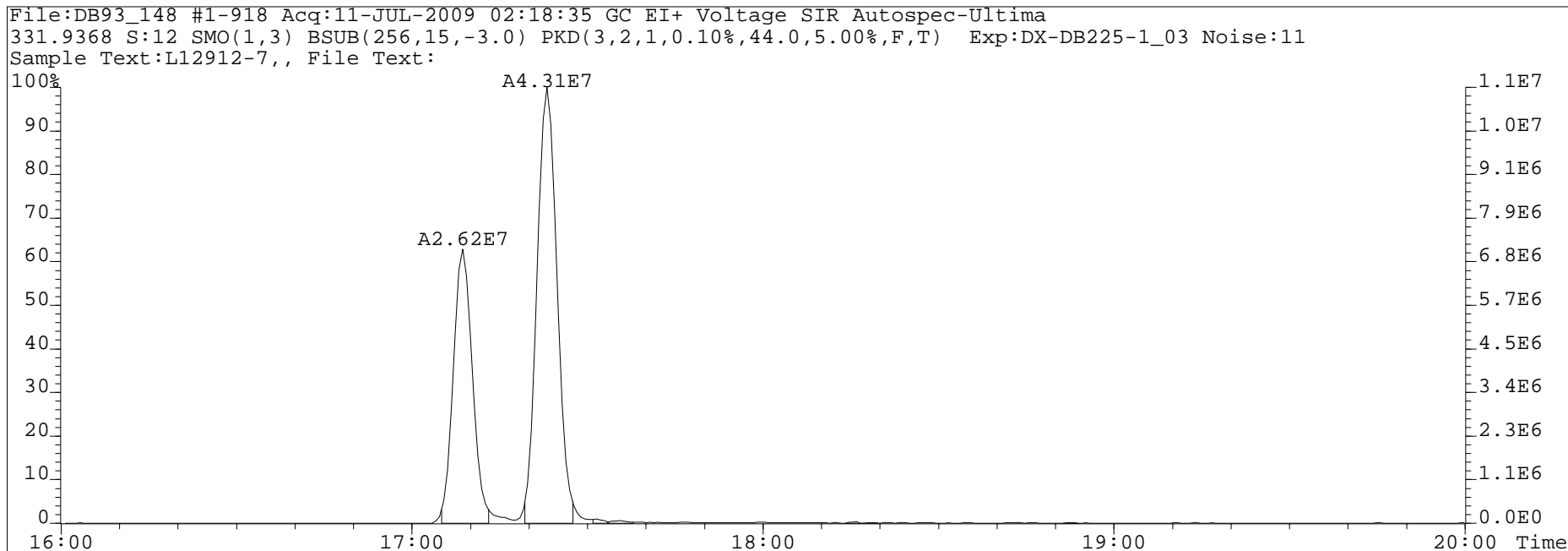


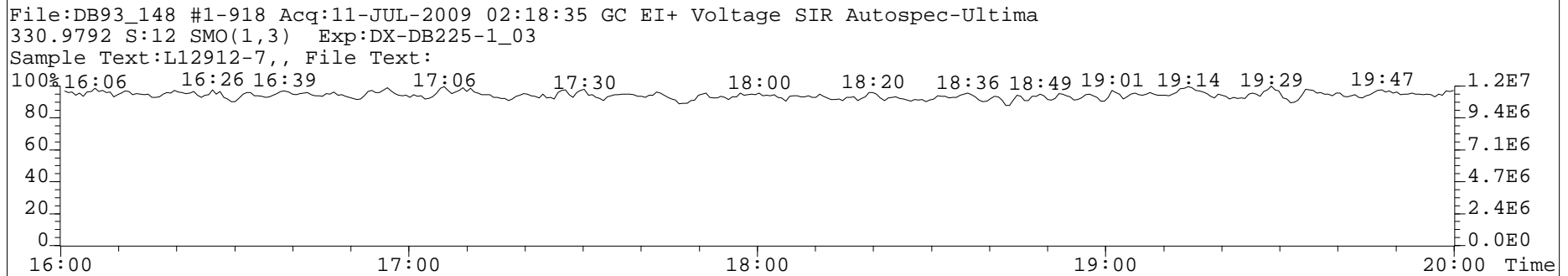
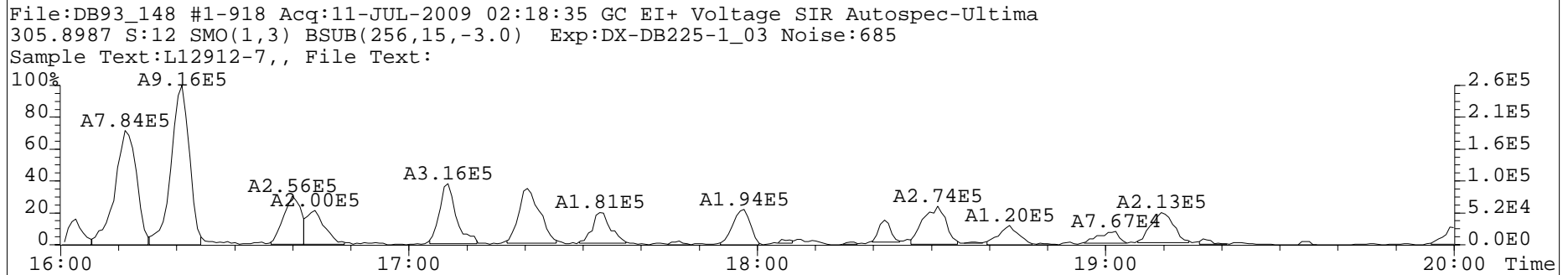
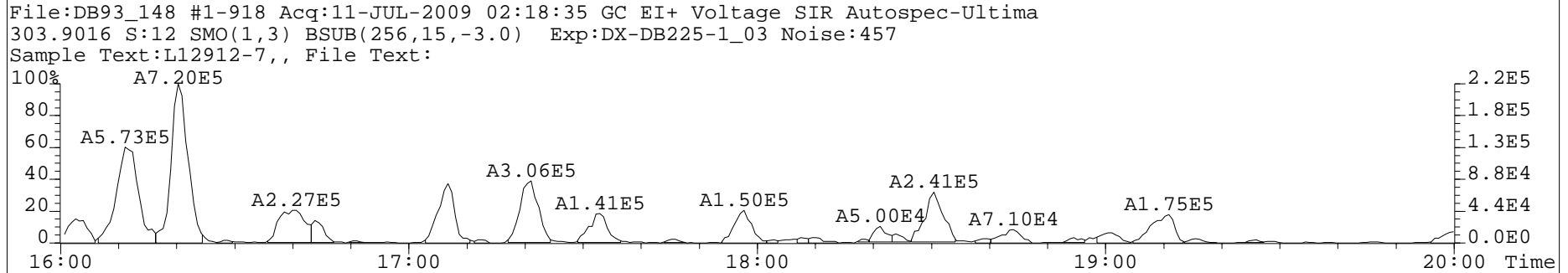
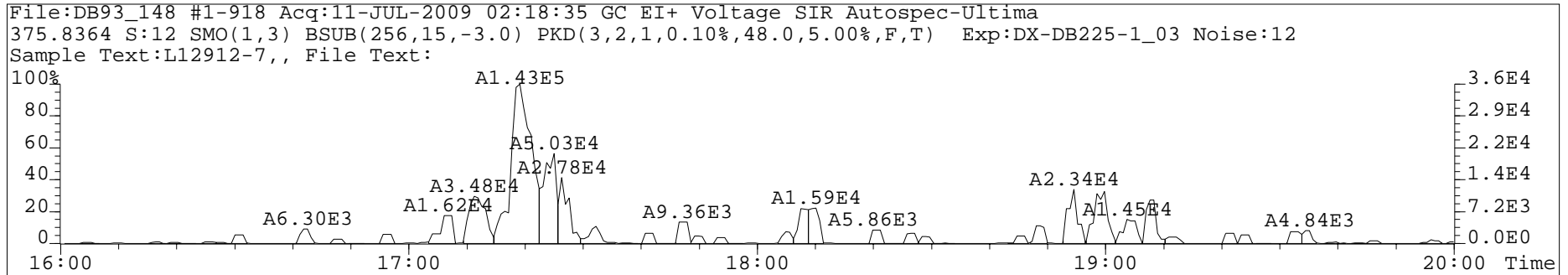
File:DB93_148 #1-918 Acq:11-JUL-2009 02:18:35 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:12 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.10%,28.0,5.00%,F,T) Exp:DX-DB225-1_03 Noise:7
 Sample Text:L12912-7,, File Text:



File:DB93_148 #1-918 Acq:11-JUL-2009 02:18:35 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:12 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.10%,24.0,5.00%,F,T) Exp:DX-DB225-1_03 Noise:6
 Sample Text:L12912-7,, File Text:







Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,,, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fails?	RT	pg	DL	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	10.020	1.85e4	0.72	NO	25.36	4.305	0.1547		1.47e3	9.62e2
2	1,2,3,7,8-PeCDF	10.020	3.35e3	1.48	NO	33.66	0.989	0.1741		1.16e3	7.96e2
3	2,3,4,7,8-PeCDF	10.020	6.63e3	1.45	NO	35.42	2.041	0.1650		1.16e3	7.96e2
4	1,2,3,4,7,8-HxCDF	10.020	1.81e4	1.24	NO	40.77	6.465	0.0952		4.90e2	8.36e2
5	1,2,3,6,7,8-HxCDF	10.020	9.03e3	1.24	NO	40.94	2.785	0.0828		4.90e2	8.36e2
6	2,3,4,6,7,8-HxCDF	10.020	7.99e3	1.06	NO	41.87	3.099	0.1013		4.90e2	8.36e2
7	1,2,3,7,8,9-HxCDF	10.020	7.09e2	1.28	NO	42.91	0.319	0.1182		4.90e2	8.36e2
8	1,2,3,4,6,7,8-HpCDF	10.020	3.87e5	1.00	NO	45.34	159.495	0.1901		1.63e3	1.07e3
9	1,2,3,4,7,8,9-HpCDF	10.020	1.88e4	1.02	NO	47.12	9.488	0.2410		1.63e3	1.07e3
10	OCDF	10.020	1.39e6	0.86	NO	50.36	689.515	0.1955		1.11e3	1.01e3
11	2,3,7,8-TCDD	10.020	2.64e3	0.71	NO	26.55	0.679	0.1389		7.95e2	1.19e3
12	1,2,3,7,8-PeCDD	10.020	7.86e3	0.69	NO	36.23	2.847	0.1954		1.32e3	8.29e2
13	1,2,3,4,7,8-HxCDD	10.020	9.97e3	1.12	NO	42.15	4.440	0.1349		1.06e3	6.03e2
14	1,2,3,6,7,8-HxCDD	10.020	5.82e4	1.22	NO	42.28	23.250	0.1305		1.06e3	6.03e2
15	1,2,3,7,8,9-HxCDD	10.020	2.60e4	1.28	NO	42.71	11.153	0.1350		1.06e3	6.03e2
16	1,2,3,4,6,7,8-HpCDD	10.020	1.15e6	1.02	NO	46.70	486.920	0.2319		1.70e3	1.38e3
17	OCDD	10.020	8.42e6	0.88	NO	50.26	3867.932	0.1462		1.03e3	6.80e2
18	13C-2,3,7,8-TCDF	10.020	1.12e6	0.79	NO	25.31	139.806	0.2225	70.0	4.55e3	2.44e3
19	13C-1,2,3,7,8-PeCDF	10.020	8.11e5	1.56	NO	33.66	144.845	0.1863	72.6	1.90e3	2.19e3
20	13C-2,3,4,7,8-PeCDF	10.020	7.66e5	1.52	NO	35.40	140.498	0.1915	70.4	1.90e3	2.19e3
21	13C-1,2,3,4,7,8-HxCDF	10.020	5.83e5	0.50	NO	40.74	136.684	0.2306	68.5	3.09e3	1.97e3
22	13C-1,2,3,6,7,8-HxCDF	10.020	7.09e5	0.51	NO	40.92	142.636	0.1982	71.5	3.09e3	1.97e3
23	13C-2,3,4,6,7,8-HxCDF	10.020	5.92e5	0.51	NO	41.86	129.941	0.2160	65.1	3.09e3	1.97e3
24	13C-1,2,3,7,8,9-HxCDF	10.020	5.49e5	0.50	NO	42.89	129.063	0.2315	64.7	3.09e3	1.97e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.020	4.59e5	0.44	NO	45.32	134.202	0.2408	67.2	2.02e3	2.21e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.020	4.12e5	0.44	NO	47.10	130.841	0.2615	65.6	2.02e3	2.21e3
27	13C-2,3,7,8-TCDD	10.020	8.68e5	0.78	NO	26.55	140.684	0.4728	70.5	3.80e3	7.63e3
28	13C-1,2,3,7,8-PeCDD	10.020	6.28e5	0.64	NO	36.21	157.307	0.2671	78.8	2.95e3	1.23e3
29	13C-1,2,3,4,7,8-HxCDD	10.020	5.48e5	1.25	NO	42.14	134.278	0.1661	67.3	1.81e3	1.68e3
30	13C-1,2,3,6,7,8-HxCDD	10.020	6.59e5	1.25	NO	42.27	138.246	0.1422	69.3	1.81e3	1.68e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.020	4.88e5	1.03	NO	46.68	136.407	0.1843	68.3	1.52e3	1.87e3
32	13C-OCDD	10.020	9.37e5	0.88	NO	50.26	230.486	0.1142	57.7	1.40e3	9.91e2
33	13C-1,2,3,4-TCDD	10.020	1.13e6	0.79	NO	26.20	6.360	0.0164	3.2	3.80e3	7.63e3
34	13C-1,2,3,7,8,9-HxCDD	10.020	8.36e5	1.25	NO	42.69	7.410	0.0060	3.7	1.81e3	1.68e3
35	37Cl-2,3,7,8-TCDD	10.020	1.12e5			26.58	19.066	0.1077	95.5		2.48e3
36	Total Tetra-Furans	10.020					33.022	0.1547			9.62e2
37	Total Tetra-Dioxins	10.020					32.055 76.87	0.1389			1.19e3
38	Total Penta-Furans	10.020					41.925 41.62	0.1741 0.1741			7.96e2
39	Total Penta-Dioxins	10.020					75.074 74.318	0.1954			8.29e2
40	Total Hexa-Furans	10.020					141.471 141.09	0.0906 0.1182			8.36e2
41	Total Hexa-Dioxins	10.020					222.408	0.1350 0.1350			6.03e2
42	Total Hepta-Furans	10.020					579.717	0.2035 0.2410			1.07e3
43	Total Hepta-Dioxins	10.020					979.725	0.2319			1.38e3
44	Hexa DPE	1.000	4.98e2			25.93					1.43e3
45	Hepta DPE	1.000	1.45e3			33.84					1.70e3
46	Octa DPE	1.000	8.47e2			42.40					1.53e3
47	Nona DPE	1.000	3.25e3			46.67					2.61e3
48	Deca DPE	1.000	2.50e2			49.49					8.79e2
49	Tetra Lock	1.000	7.24e4			24.36					4.47e5
50	Penta Lock	1.000	1.08e6			29.71					3.18e5
51	Hexa Lock	1.000	1.09e6			38.86					6.47e5
52	Hepta Lock	1.000									3.98e5
53	Octa Lock	1.000	3.95e6			49.83					1.51e5

PV WL 14-JUL-2009
 su'd BRA 22-Jul-09



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,,, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	1 st Ratio (A)	Fails?	pg
1	24.22	0.763	NO	3.258
2	23.92	0.732	NO	2.982
3	23.41	0.738	NO	3.946
4	23.04	0.765	NO	3.605
5	22.61	0.810	NO	3.921
6	22.30	0.750	NO	3.720
7	22.00	0.691	NO	1.055
8	21.47	0.671	NO	1.096
9	26.36	0.792	NO	0.845
10	26.03	0.665	NO	1.480
11	25.36	0.721	NO	4.305
12	25.03	0.693	NO	0.963
13	24.66	0.731	NO	1.847

rg

Tetradioxins

	RT	1 st Ratio (A)	Fails?	pg
1	25.31	1.156	YES	2.873
2	24.76	0.797	NO	4.384
3	23.84	0.740	NO	1.628
4	23.44	0.751	NO	27.985
5	23.01	0.767	NO	34.526
6	27.17	0.774	NO	0.557
7	26.55	0.714	NO	0.679
8	26.41	0.645	YES	2.312
9	26.23	0.759	NO	6.452
10	25.70	0.724	NO	0.659

rg

Pentafurans

	RT	1 st Ratio (A)	Fails?	pg
1	35.71	1.551	NO	2.086
2	35.42	1.449	NO	2.041
3	34.39	1.424	NO	1.604
4	34.08	0.905	YES	0.302
5	33.66	1.481	NO	0.989
6	33.52	1.671	NO	0.738
7	33.01	1.451	NO	3.789
8	31.65	1.556	NO	9.614
9	29.01	1.434	NO	20.549
10	37.19	1.537	NO	0.210

rg

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,, Description: 1,WG29271,1.0/20uL

Pentadioxins

	RT	1 st Ratio (A)	Fails?	pg
1	34.60	0.653	NO	14.978
2	34.31	0.557	NO	3.197
3	33.97	0.593	NO	17.488
4	33.28	0.595	NO	3.100
5	32.18	0.634	NO	26.037
6	37.14	0.819	YES	0.757
7	36.58	0.664	NO	0.785
8	36.23	0.693	NO	2.847
9	35.62	0.646	NO	3.107
10	35.18	0.665	NO	1.827
11	34.98	0.526	NO	0.952

cg

Hexafurans

	RT	1 st Ratio (A)	Fails?	pg
1	41.87	1.057	NO	3.099
2	41.72	1.205	NO	2.967
3	41.38	1.165	NO	0.579
4	40.94	1.242	NO	2.785
5	40.77	1.235	NO	6.465
6	40.13	1.206	NO	67.330
7	39.82	1.299	NO	2.265
8	39.55	0.954	YES	0.381
9	39.31	1.210	NO	41.233
10	39.04	1.188	NO	13.192
11	43.04	1.220	NO	0.856
12	42.91	1.284	NO	0.319

cg

Hexadioxins

	RT	1 st Ratio (A)	Fails?	pg
1	41.46	1.195	NO	3.084
2	41.26	1.207	NO	58.523
3	40.89	1.251	NO	45.531
4	40.08	1.214	NO	76.428
5	42.71	1.281	NO	11.153
6	42.28	1.224	NO	23.250
7	42.15	1.122	NO	4.440

cg

Heptafurans

	RT	1 st Ratio (A)	Fails?	pg
1	45.85	1.000	NO	404.682
2	45.65	1.085	NO	6.052
3	45.34	0.997	NO	159.495
4	47.12	1.015	NO	9.488

cg

Heptadioxins

	RT	1 st Ratio (A)	Fails?	pg
1	46.70	1.020	NO	486.920
2	45.79	1.007	NO	492.805

cg

PV WL 14-JUL-2009



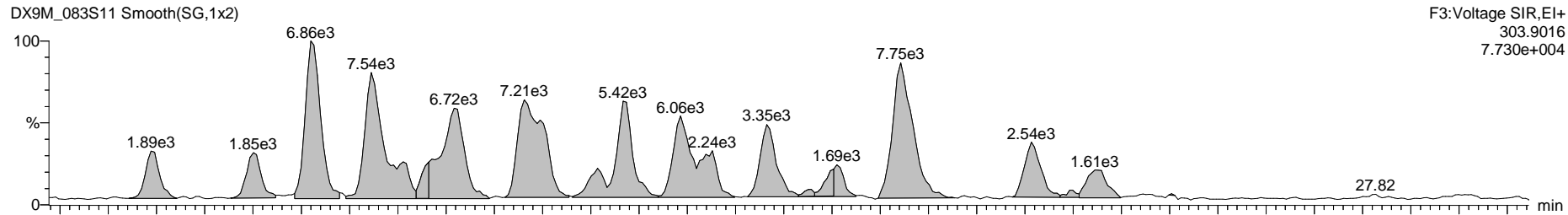
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

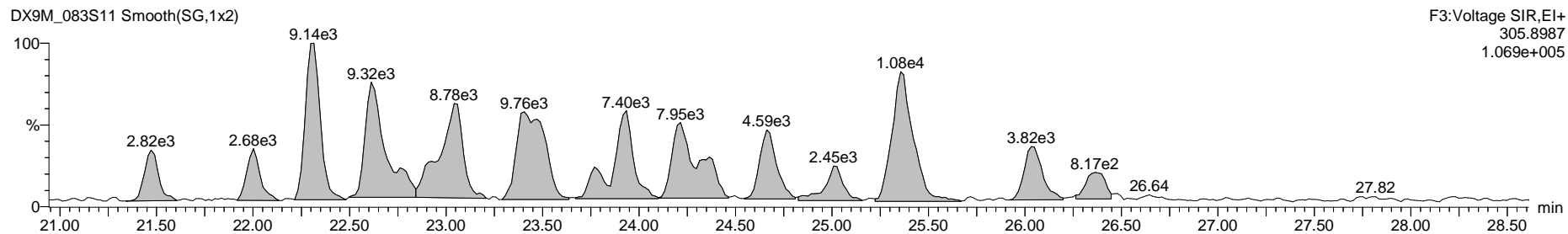
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S11 Smooth(SG,1x2)

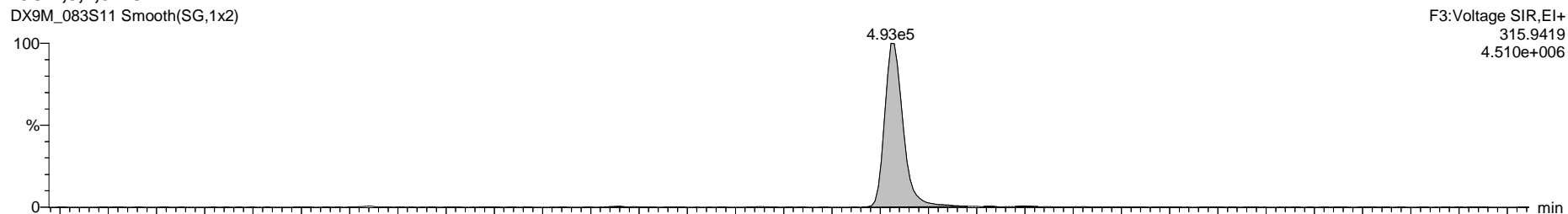


DX9M_083S11 Smooth(SG,1x2)

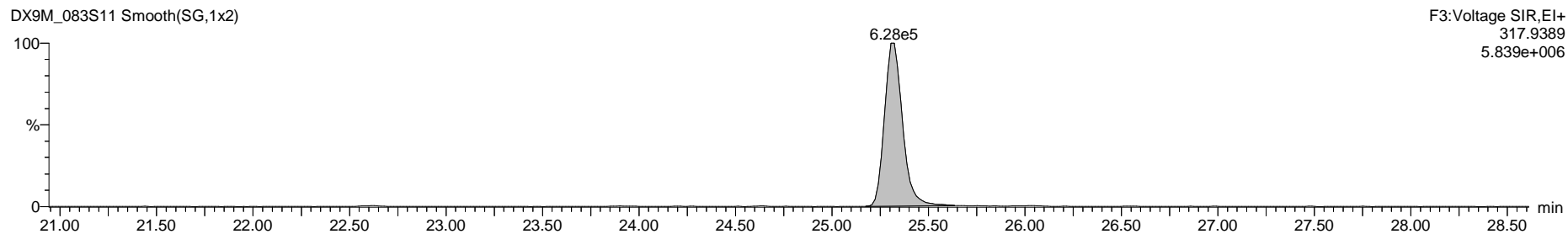


13C-2,3,7,8-TCDF

DX9M_083S11 Smooth(SG,1x2)



DX9M_083S11 Smooth(SG,1x2)



PV WL 14-JUL-2009

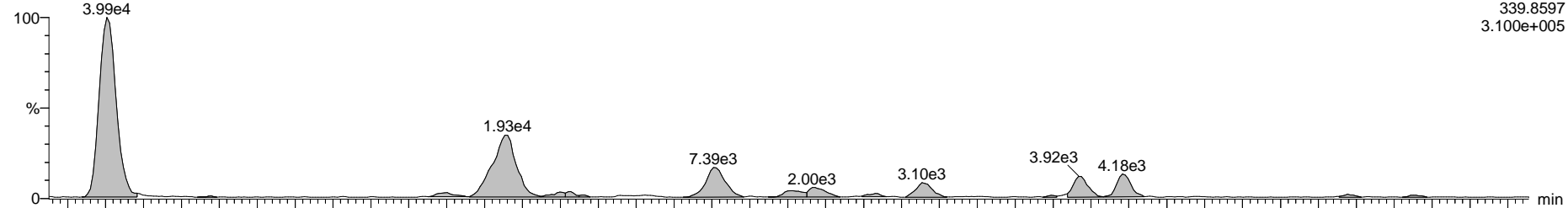


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,,, Description: 1,WG29271,1.0/20uL

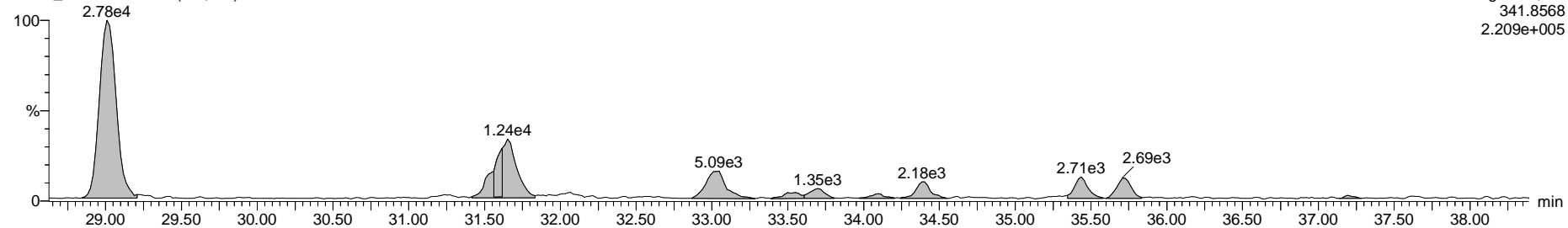
Total Penta-Furans

DX9M_083S11 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
3.100e+005

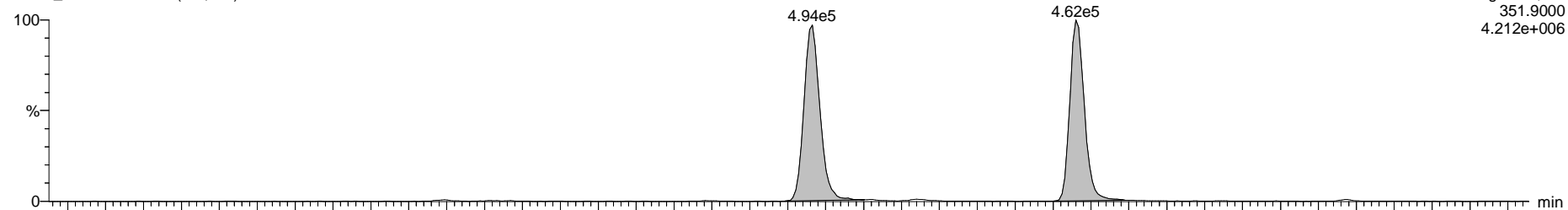
DX9M_083S11 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
2.209e+005

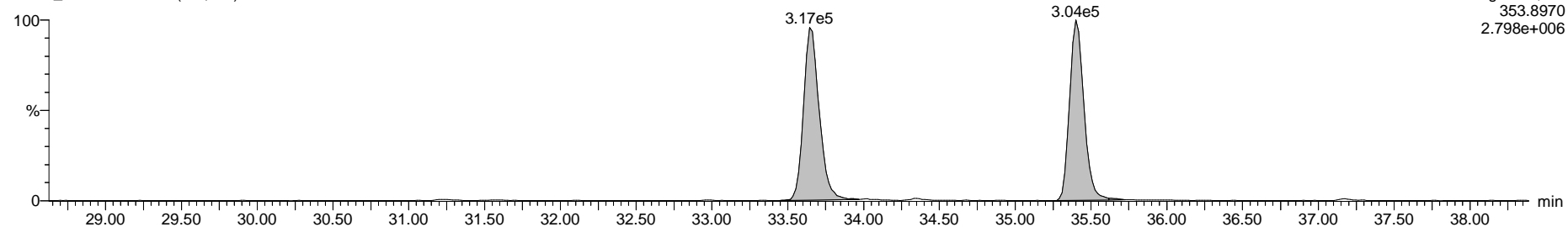
13C-1,2,3,7,8-PeCDF

DX9M_083S11 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
4.212e+006

DX9M_083S11 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8970
2.798e+006

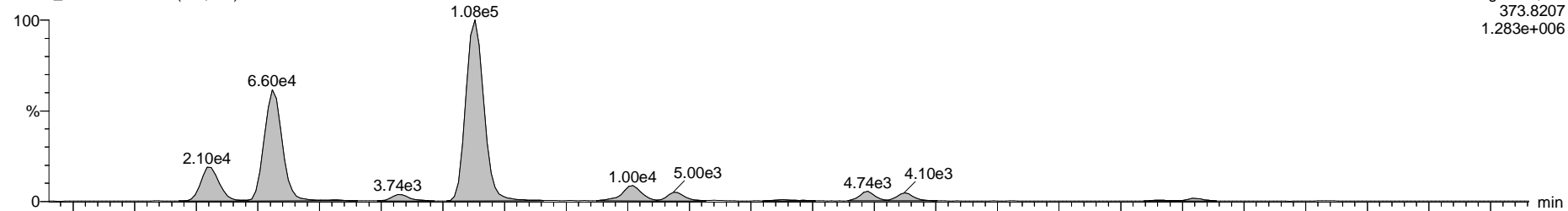


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

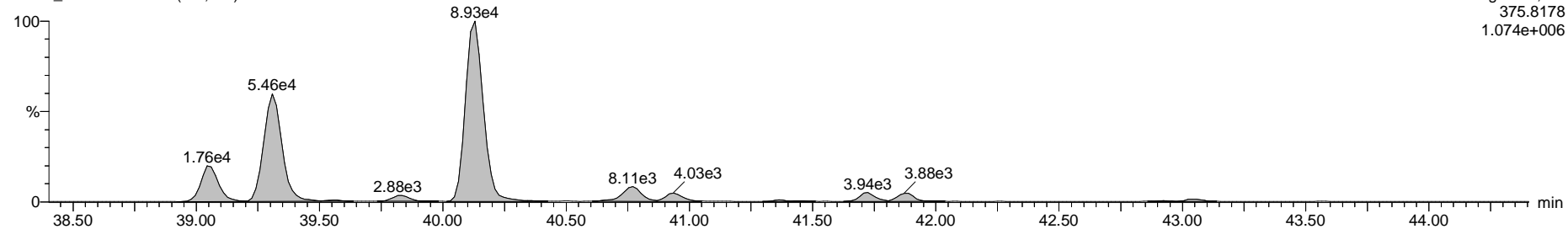
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S11 Smooth(SG,1x2)

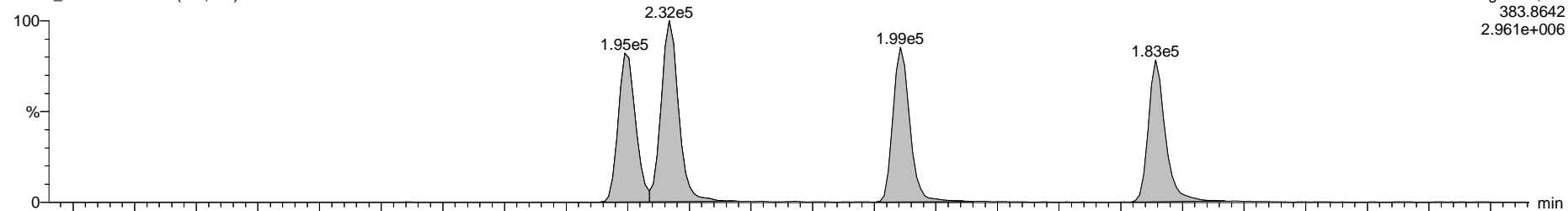


DX9M_083S11 Smooth(SG,1x2)

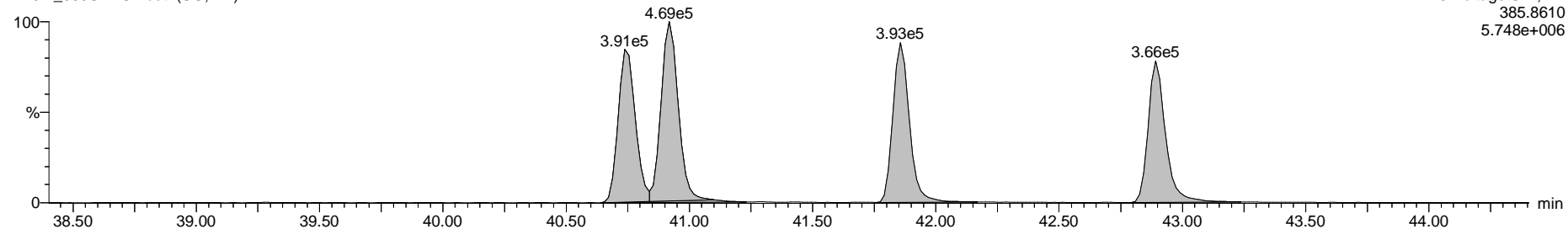


13C-1,2,3,4,7,8-HxCDF

DX9M_083S11 Smooth(SG,1x2)



DX9M_083S11 Smooth(SG,1x2)

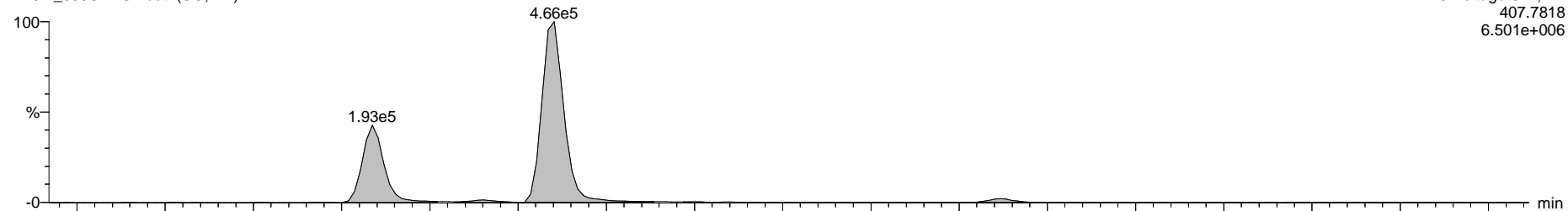


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,,, Description: 1,WG29271,1.0/20uL

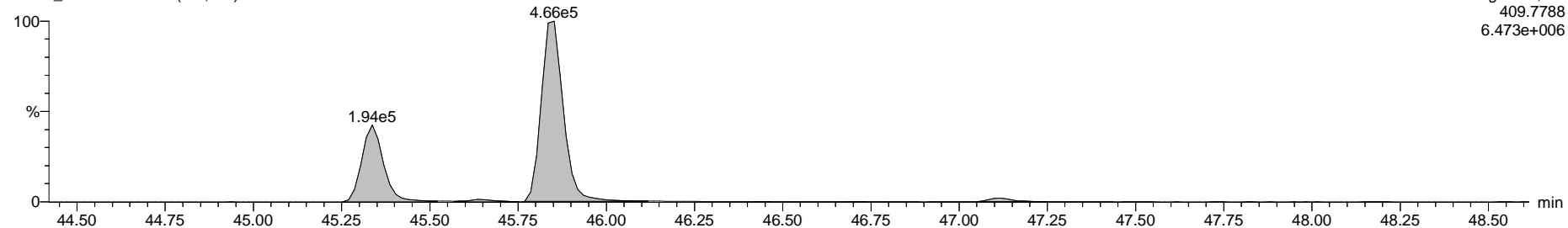
Total Hepta-Furans

DX9M_083S11 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
6.501e+006

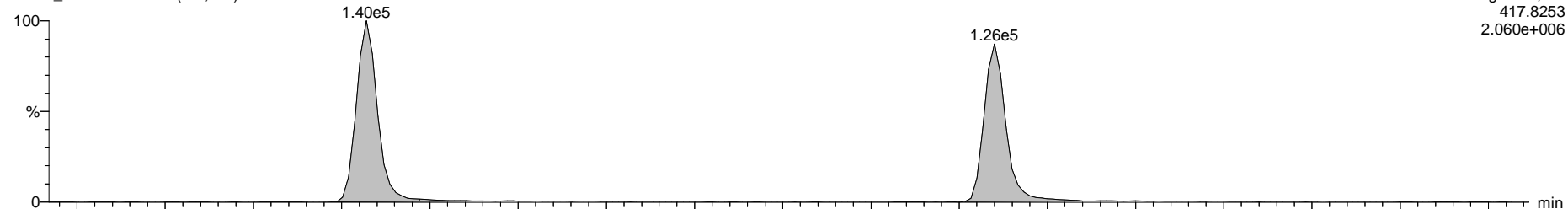
DX9M_083S11 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
6.473e+006

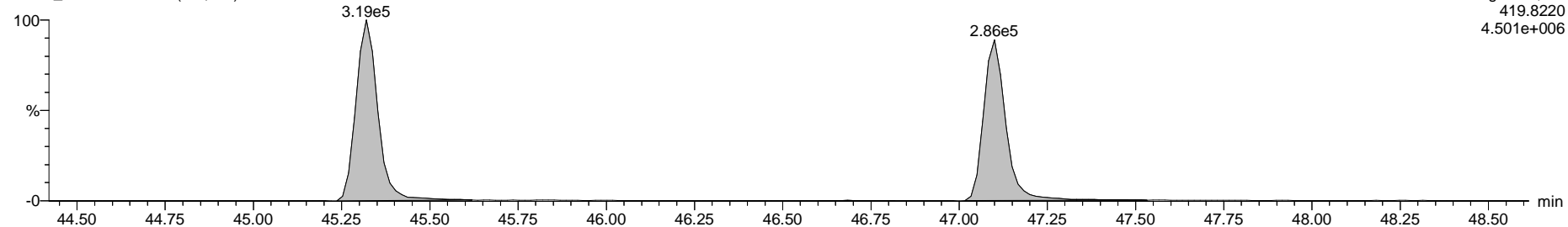
13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S11 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
2.060e+006

DX9M_083S11 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
4.501e+006

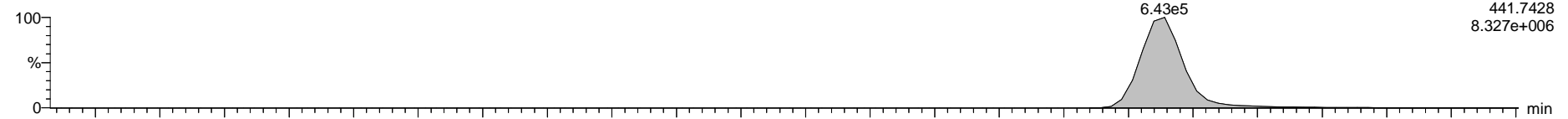


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

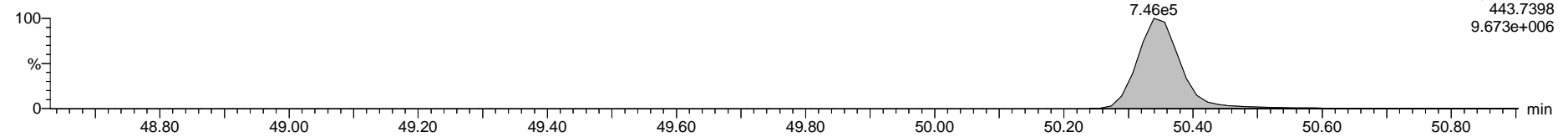
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S11 Smooth(SG,1x2)

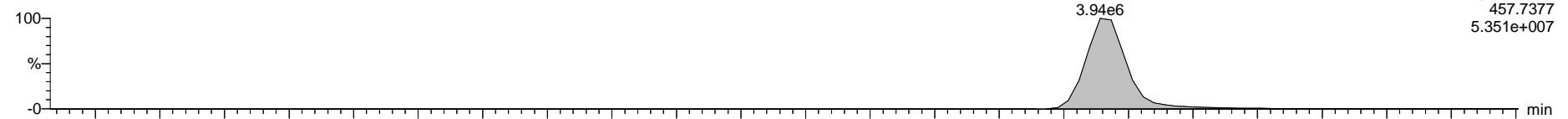


DX9M_083S11 Smooth(SG,1x2)

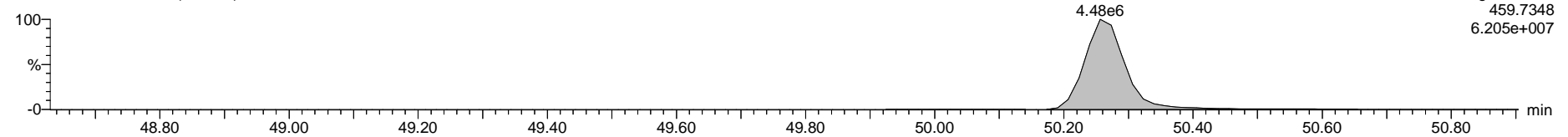


OCDD

DX9M_083S11 Smooth(SG,1x2)

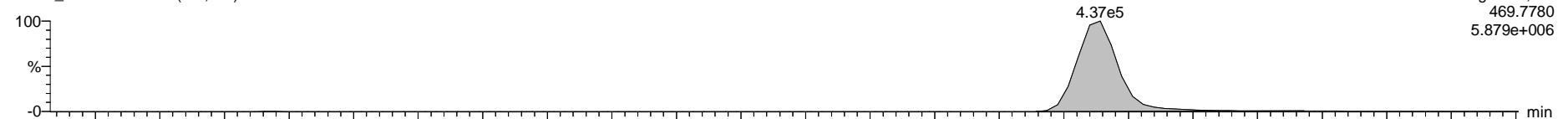


DX9M_083S11 Smooth(SG,1x2)

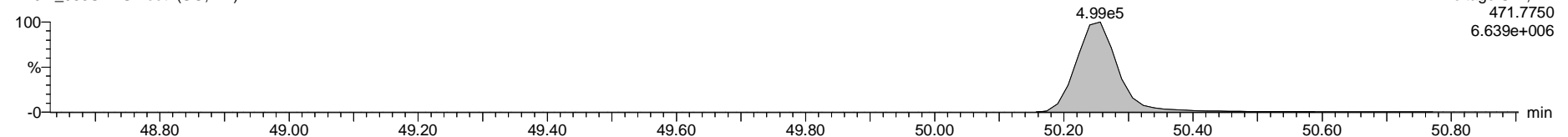


13C-OCDD

DX9M_083S11 Smooth(SG,1x2)



DX9M_083S11 Smooth(SG,1x2)

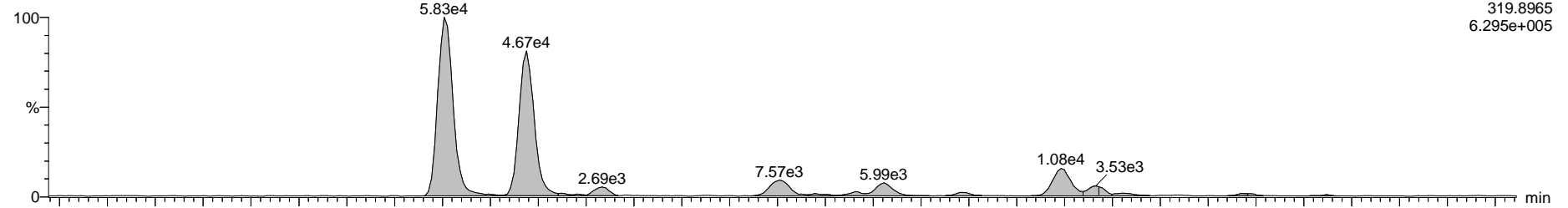


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

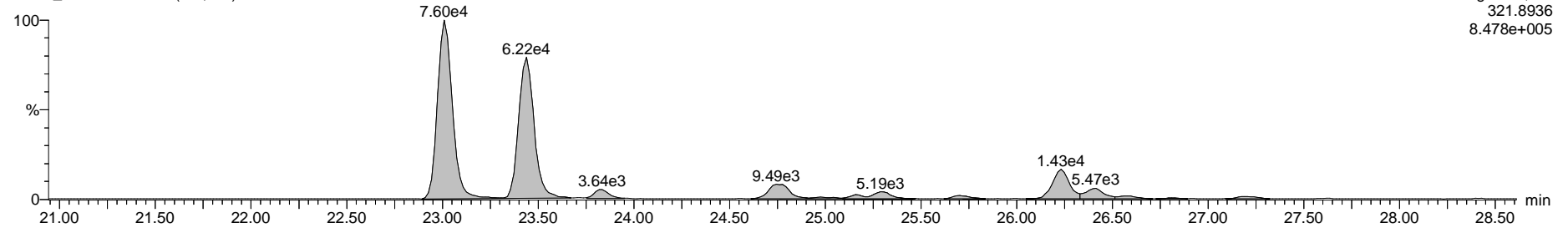
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,,, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_083S11 Smooth(SG,1x2)

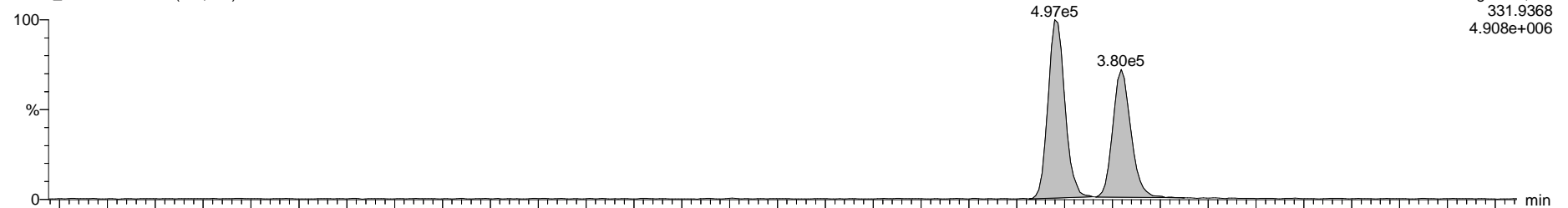


DX9M_083S11 Smooth(SG,1x2)

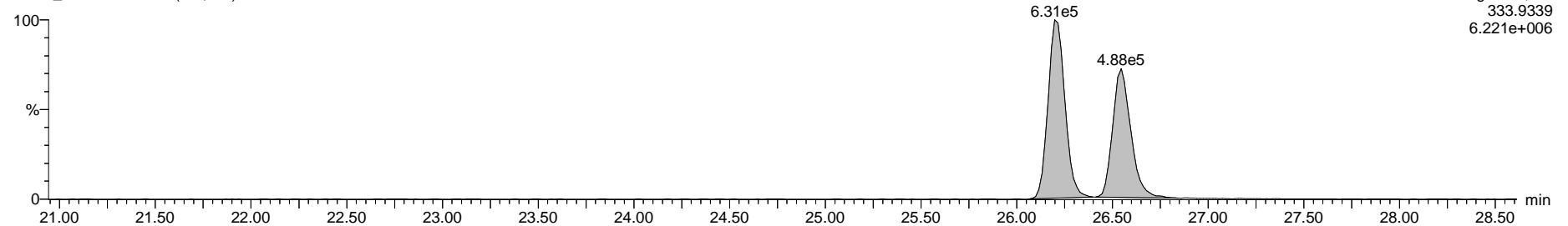


13C-2,3,7,8-TCDD

DX9M_083S11 Smooth(SG,1x2)



DX9M_083S11 Smooth(SG,1x2)



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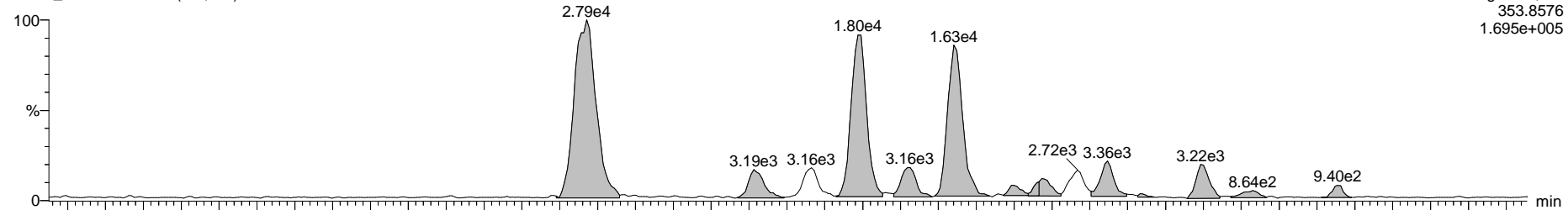


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

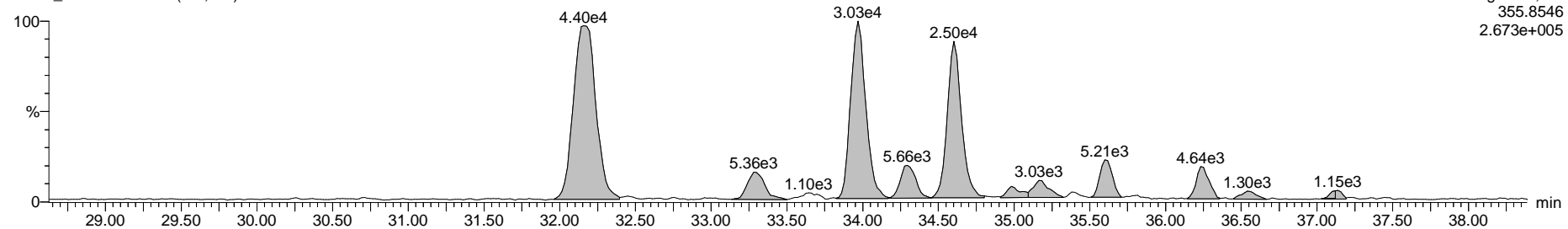
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,,, Description: 1,WG29271,1.0/20uL

Total Penta-Dioxins

DX9M_083S11 Smooth(SG,1x2)

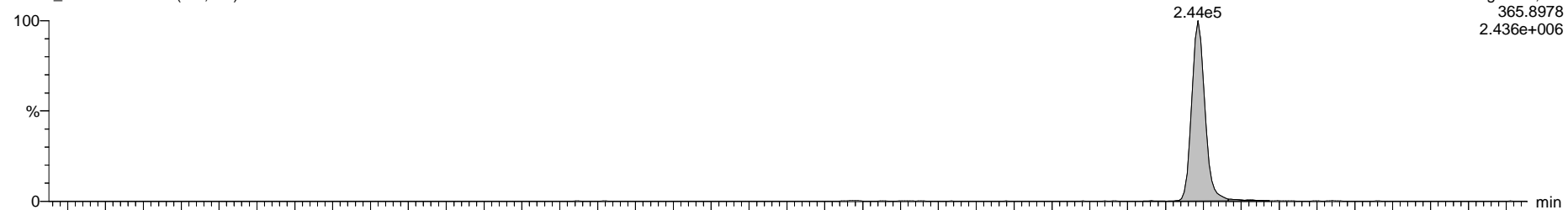


DX9M_083S11 Smooth(SG,1x2)

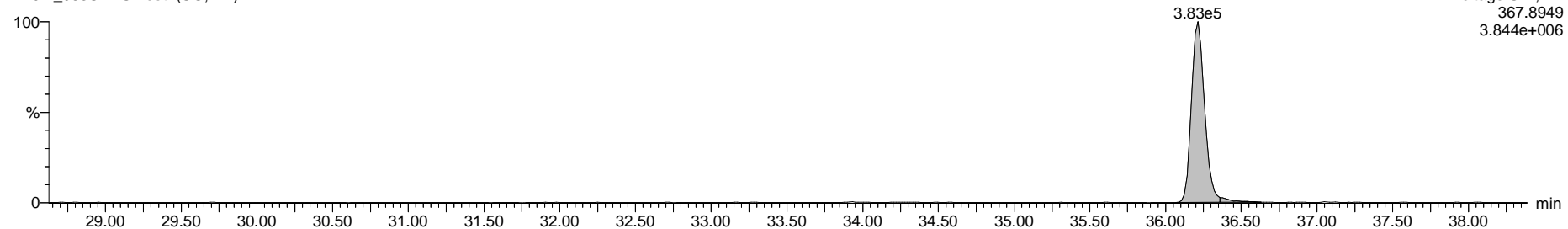


13C-1,2,3,7,8-PeCDD

DX9M_083S11 Smooth(SG,1x2)



DX9M_083S11 Smooth(SG,1x2)

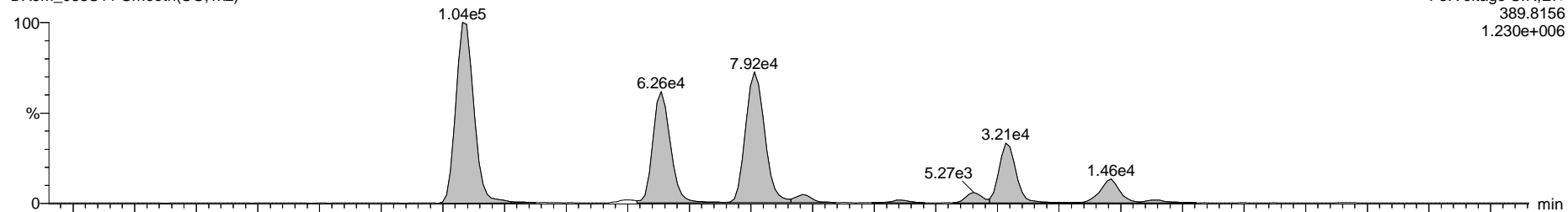


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

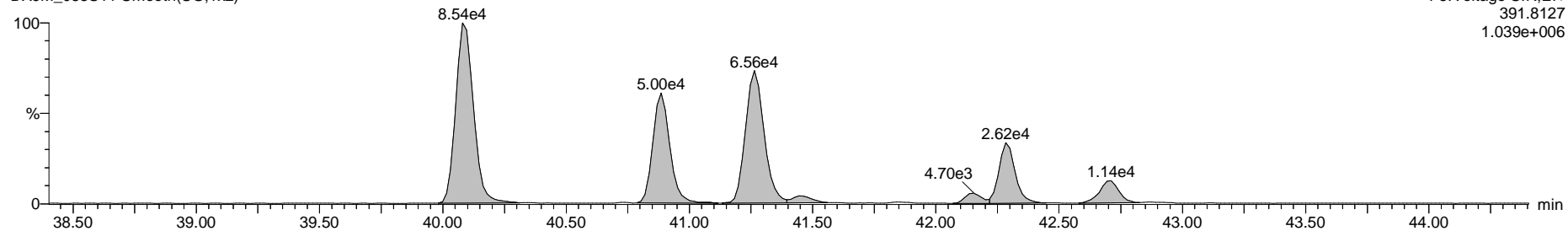
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S11 Smooth(SG,1x2)

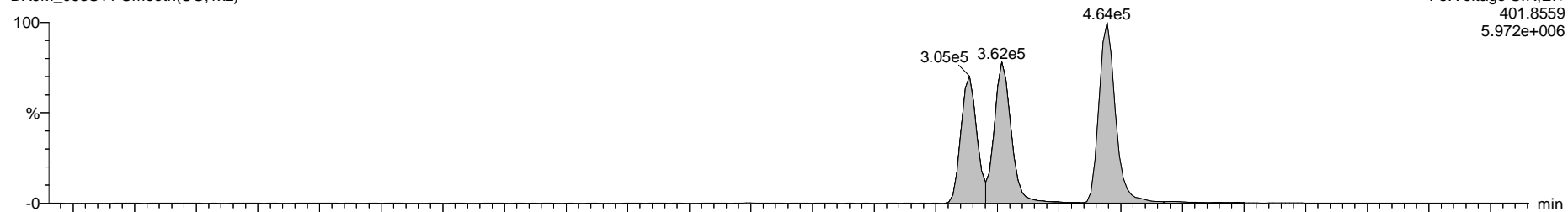


DX9M_083S11 Smooth(SG,1x2)

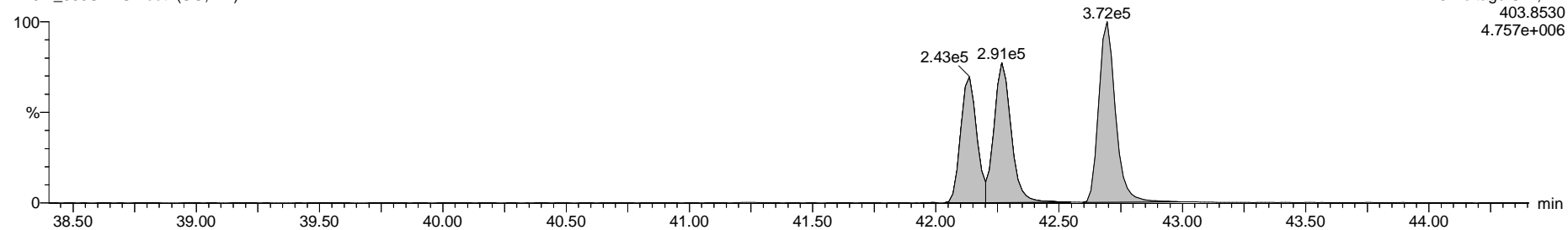


13C-1,2,3,4,7,8-HxCDD

DX9M_083S11 Smooth(SG,1x2)



DX9M_083S11 Smooth(SG,1x2)

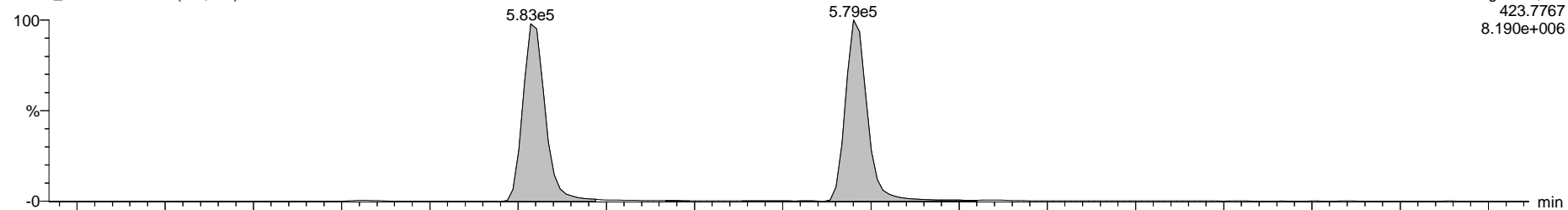


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,,, Description: 1,WG29271,1.0/20uL

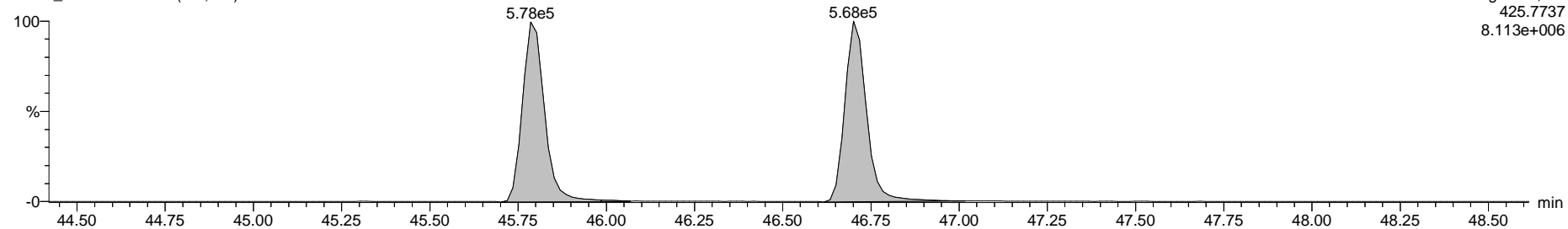
Total Hepta-Dioxins

DX9M_083S11 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
8.190e+006

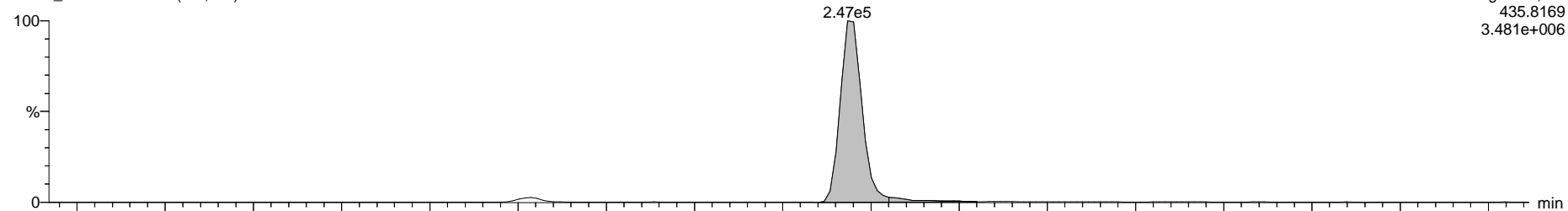
DX9M_083S11 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
8.113e+006

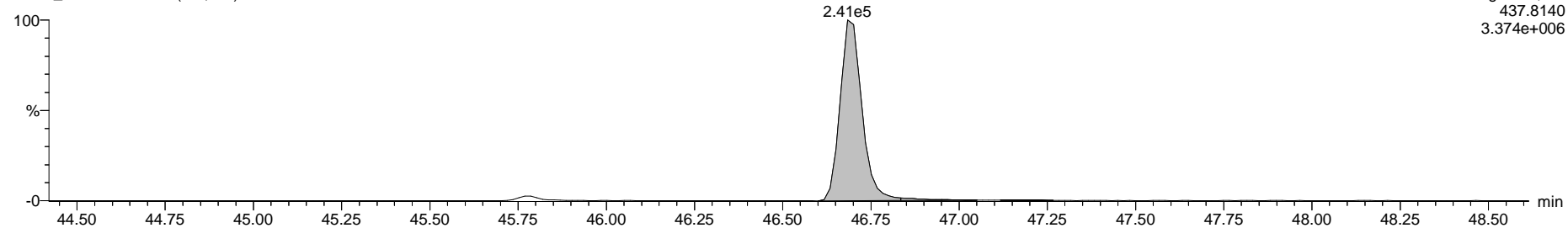
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S11 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
3.481e+006

DX9M_083S11 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
3.374e+006

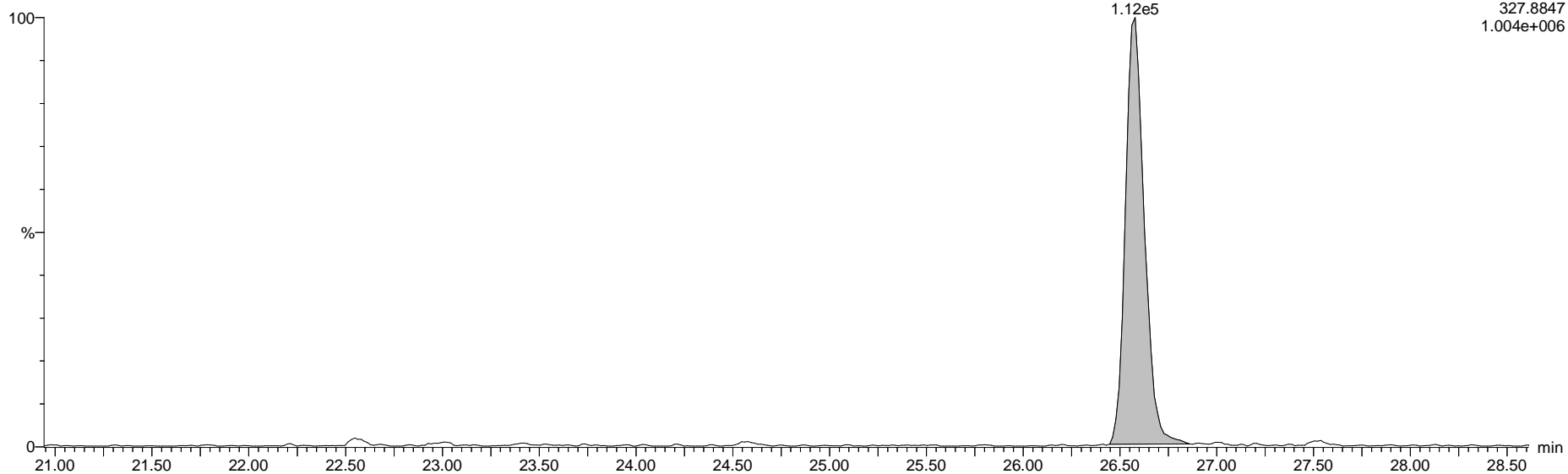


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,,, Description: 1,WG29271,1.0/20uL

37Cl-2,3,7,8-TCDD

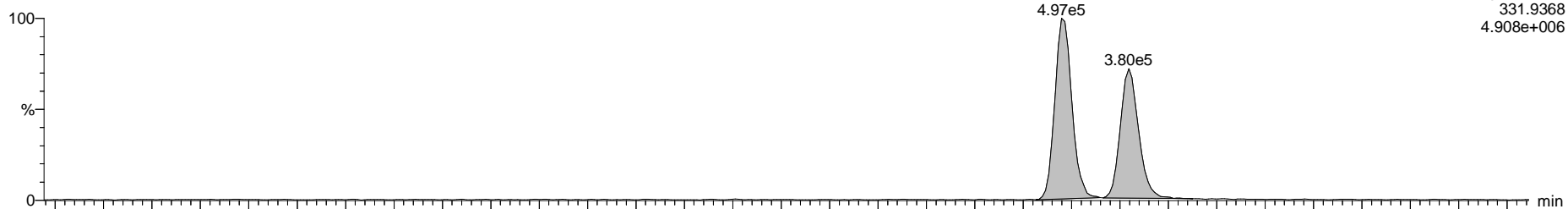
DX9M_083S11 Smooth(SG,1x2)



F3: Voltage SIR, EI+
327.8847
1.004e+006

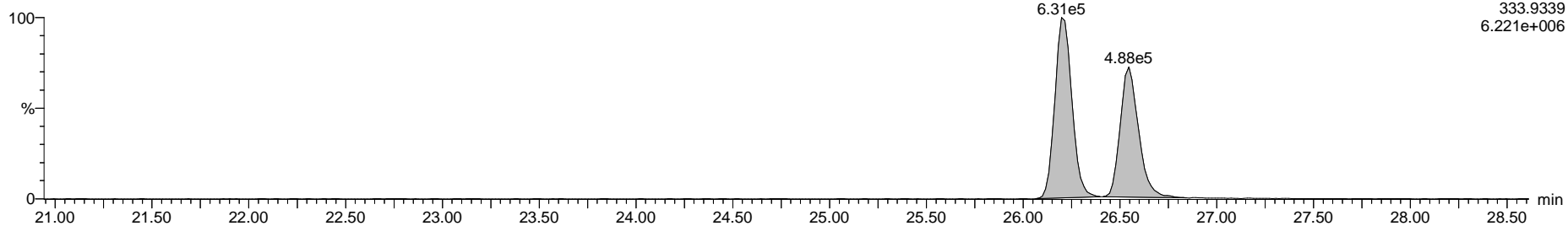
13C-1,2,3,4-TCDD

DX9M_083S11 Smooth(SG,1x2)



F3: Voltage SIR, EI+
331.9368
4.908e+006

DX9M_083S11 Smooth(SG,1x2)



F3: Voltage SIR, EI+
333.9339
6.221e+006

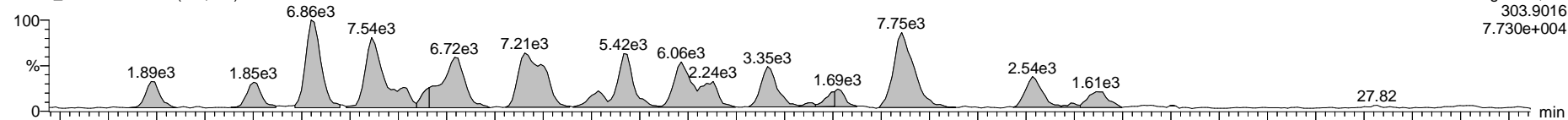


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

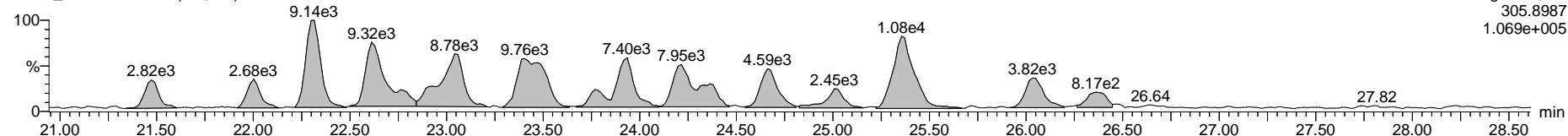
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S11 Smooth(SG,1x2)

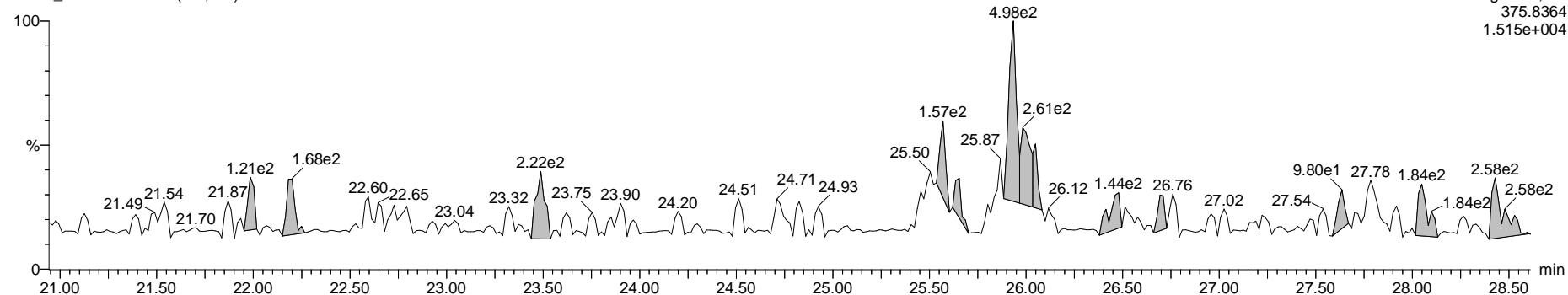


DX9M_083S11 Smooth(SG,1x2)



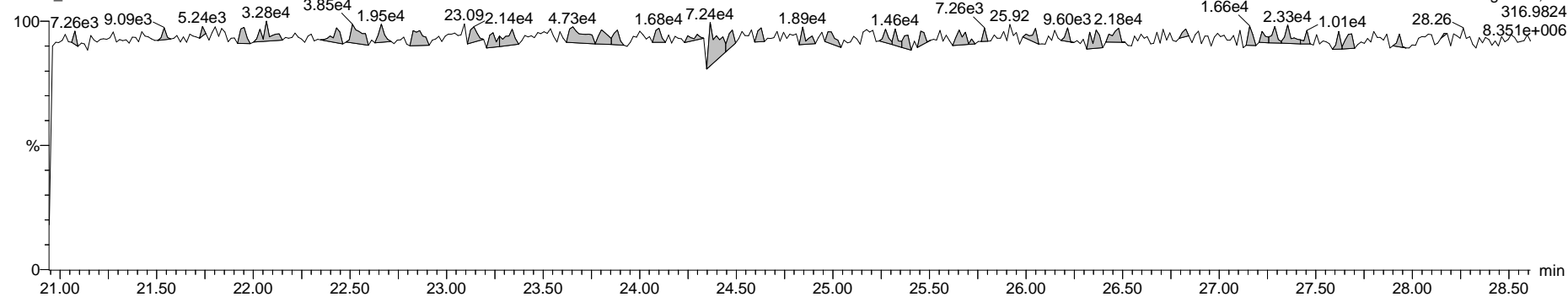
Hexa DPE

DX9M_083S11 Smooth(SG,1x2)



Tetra Lock

DX9M_083S11



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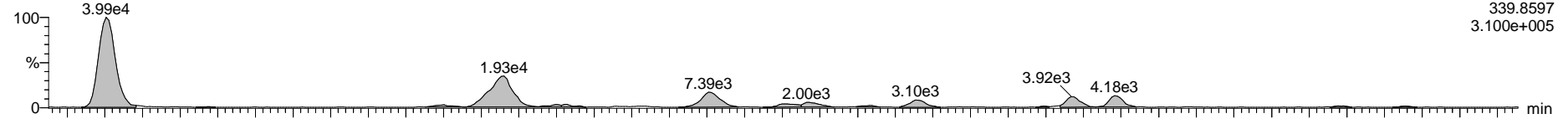
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

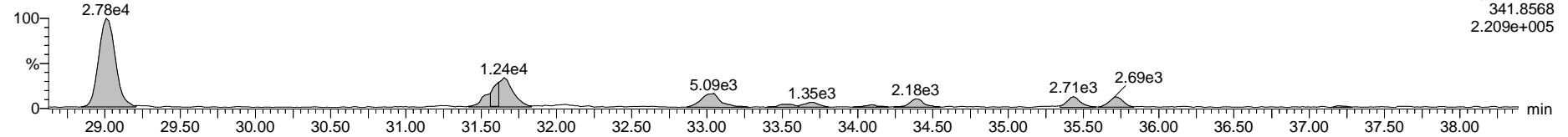
DX9M_083S11 Smooth(SG,1x2)

F4:Voltage SIR,EI+
339.8597
3.100e+005



DX9M_083S11 Smooth(SG,1x2)

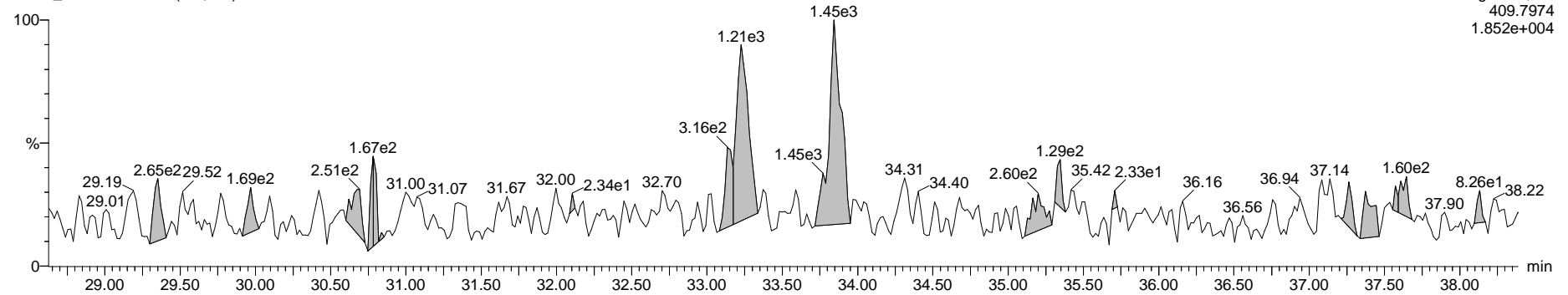
F4:Voltage SIR,EI+
341.8568
2.209e+005



Hepta DPE

DX9M_083S11 Smooth(SG,1x2)

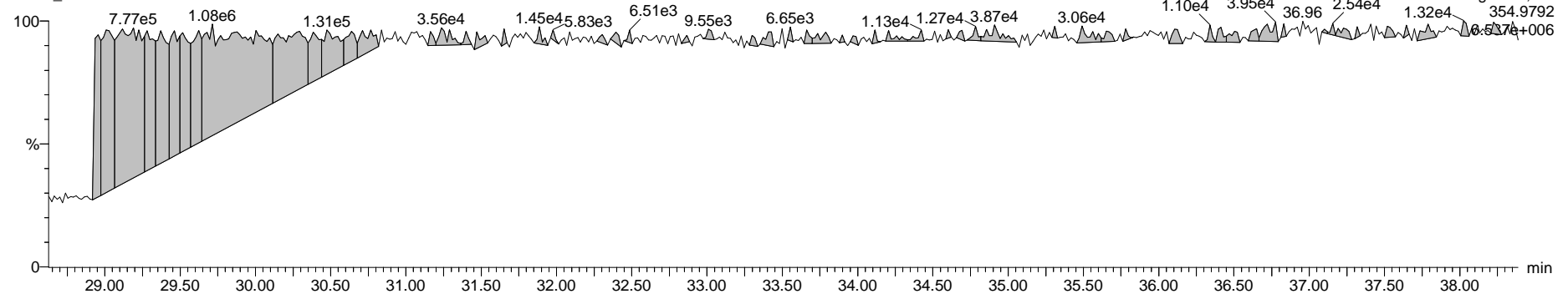
F4:Voltage SIR,EI+
409.7974
1.852e+004



Penta Lock

DX9M_083S11

F4:Voltage SIR,EI+
354.9792
1.6517e+006

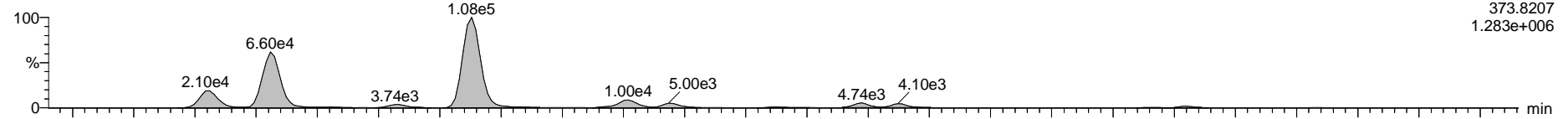


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

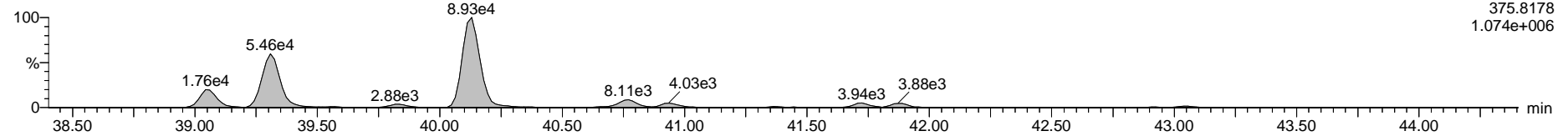
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S11 Smooth(SG,1x2)

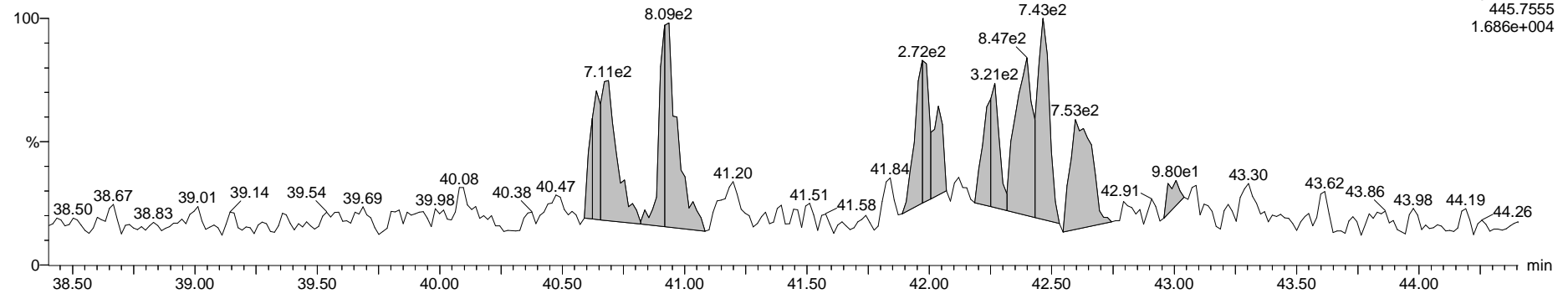


DX9M_083S11 Smooth(SG,1x2)



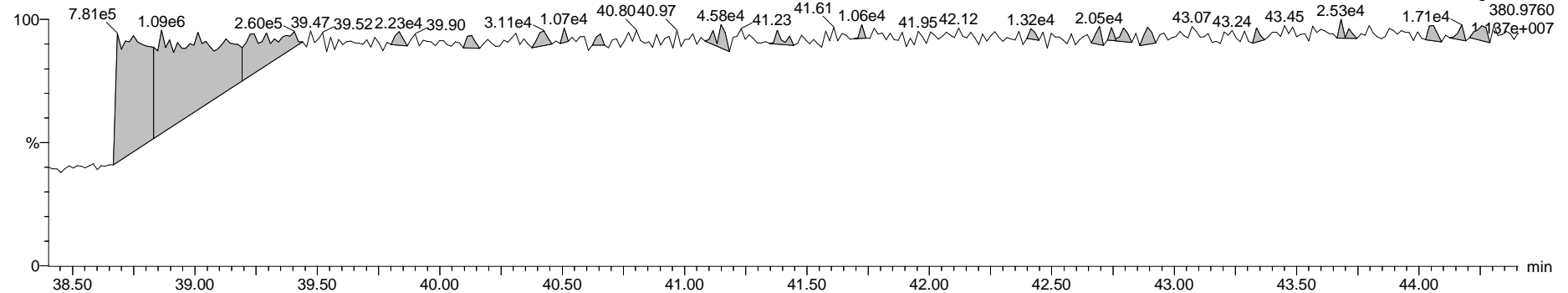
Octa DPE

DX9M_083S11 Smooth(SG,1x2)



Hexa Lock

DX9M_083S11

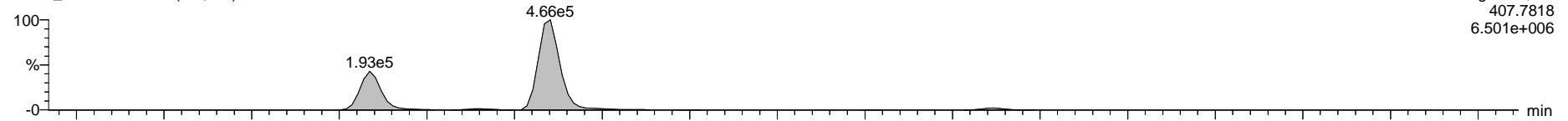


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

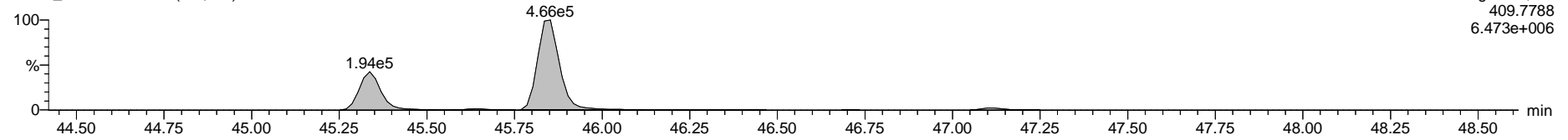
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,, Description: 1,WG29271,1.0/20uL

Total Hepta-Furans

DX9M_083S11 Smooth(SG,1x2)

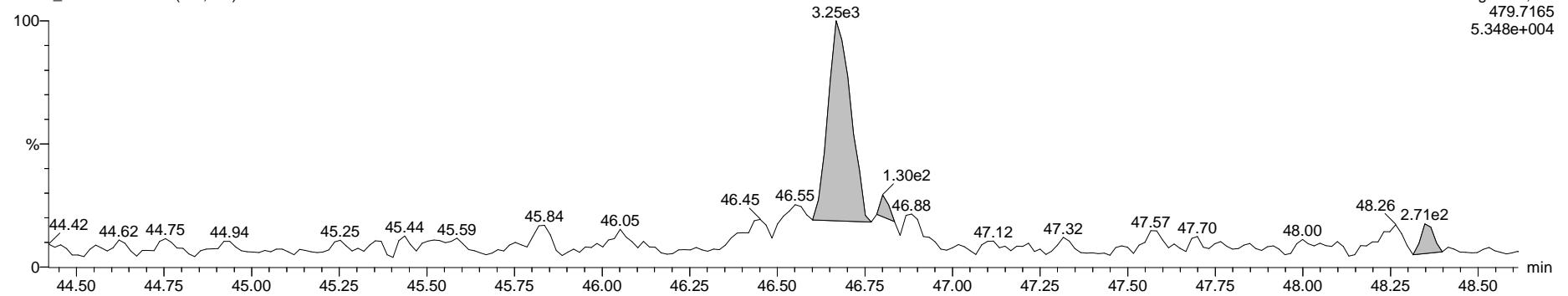


DX9M_083S11 Smooth(SG,1x2)



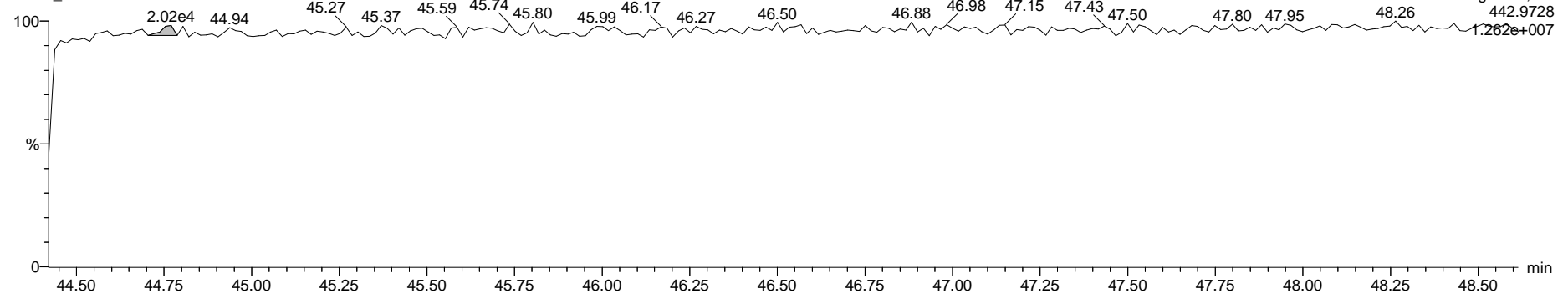
Nona DPE

DX9M_083S11 Smooth(SG,1x2)



Hepta Lock

DX9M_083S11



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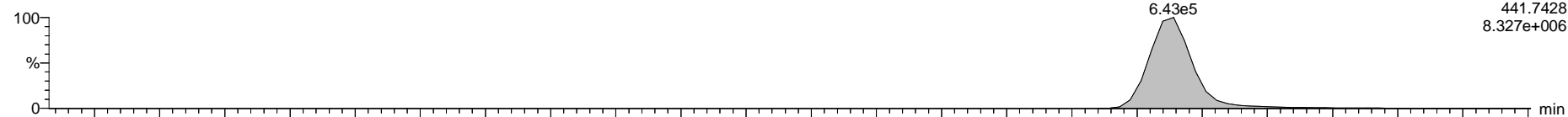


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

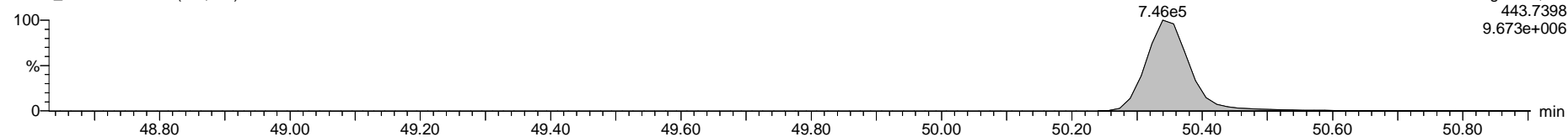
Name: DX9M_083S11, Date: 10-Jul-2009, Time: 17:36:52, ID: L12912-8,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S11 Smooth(SG,1x2)

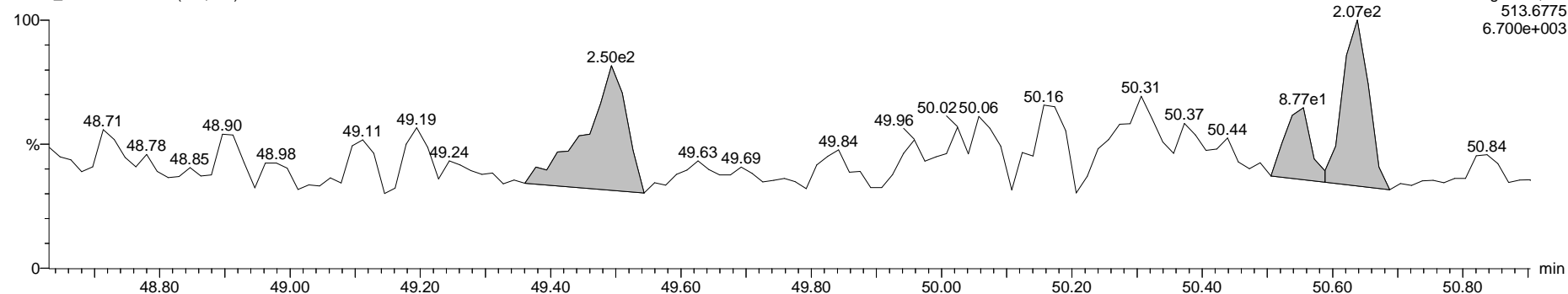


DX9M_083S11 Smooth(SG,1x2)



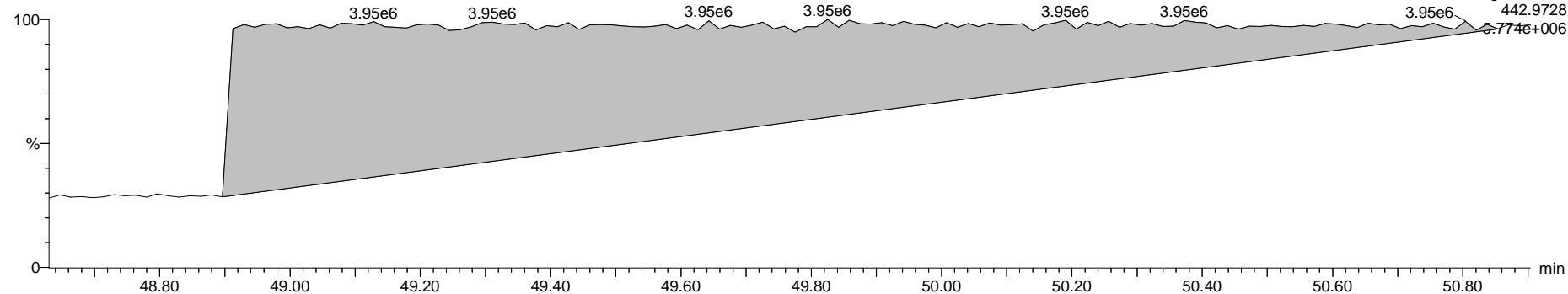
Deca DPE

DX9M_083S11 Smooth(SG,1x2)



Octa Lock

DX9M_083S11



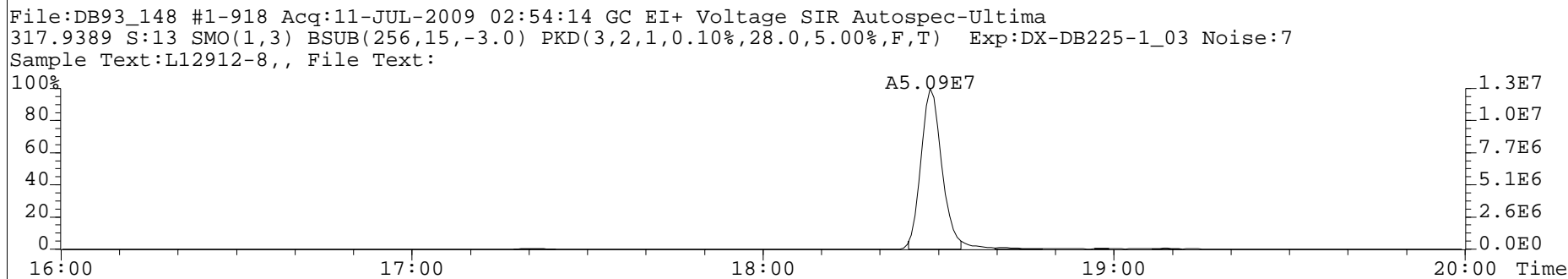
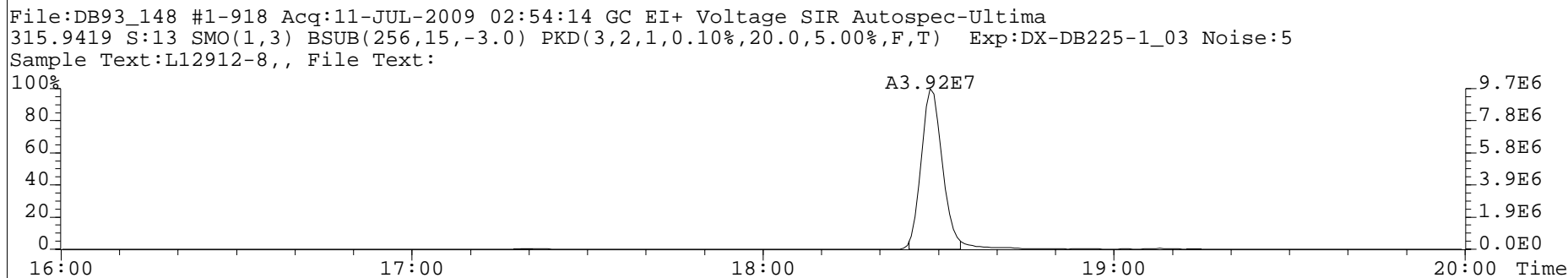
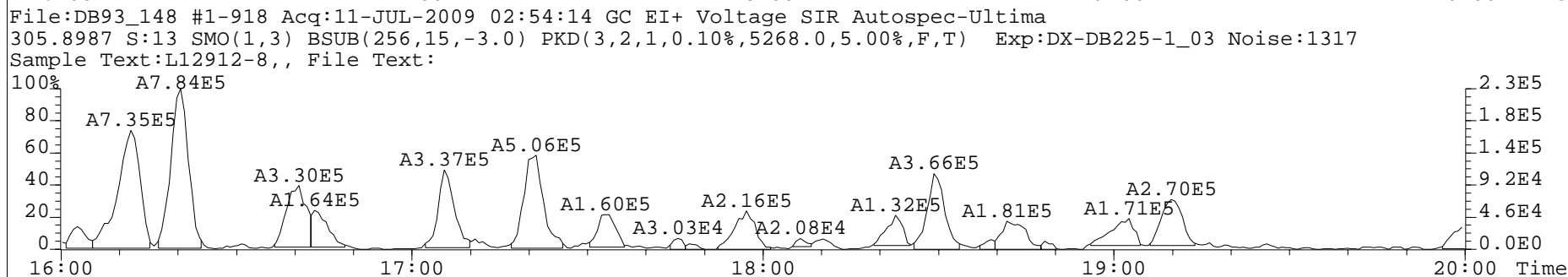
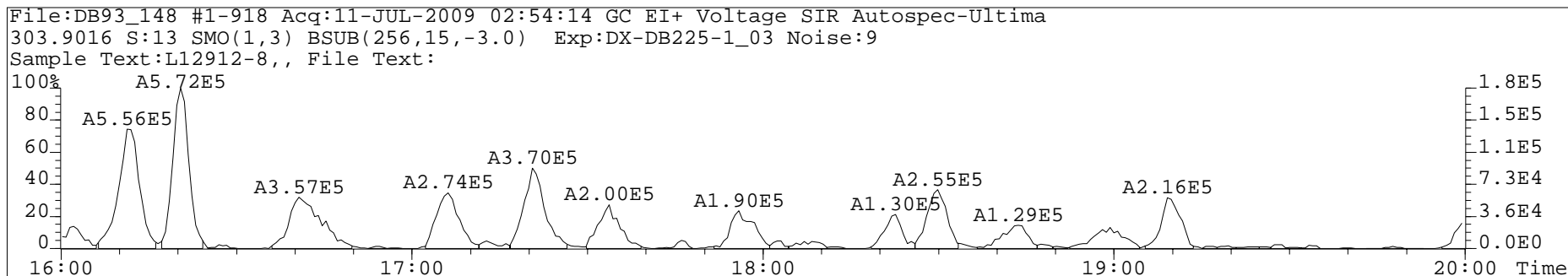
Run #17 Filename DB93_148 S: 13 I: 1 Acquired: 11-JUL-09 02:54:14 Processed: 15-JUL-09 13:58:42
 Run: db93_148-a Analyte: 1613B-db-s4 Cal: db93_146d> Results: db93_148-a Version: V3.6 6-JAN-2000 17:51:42
 Sample text: L12912-8,, Comments: 1,WG29271,2.0/20uL
 sample size: 10.020000 conc units: pg/g total toxicity: 0.18 F1: 1.0000 F2: 1.0000

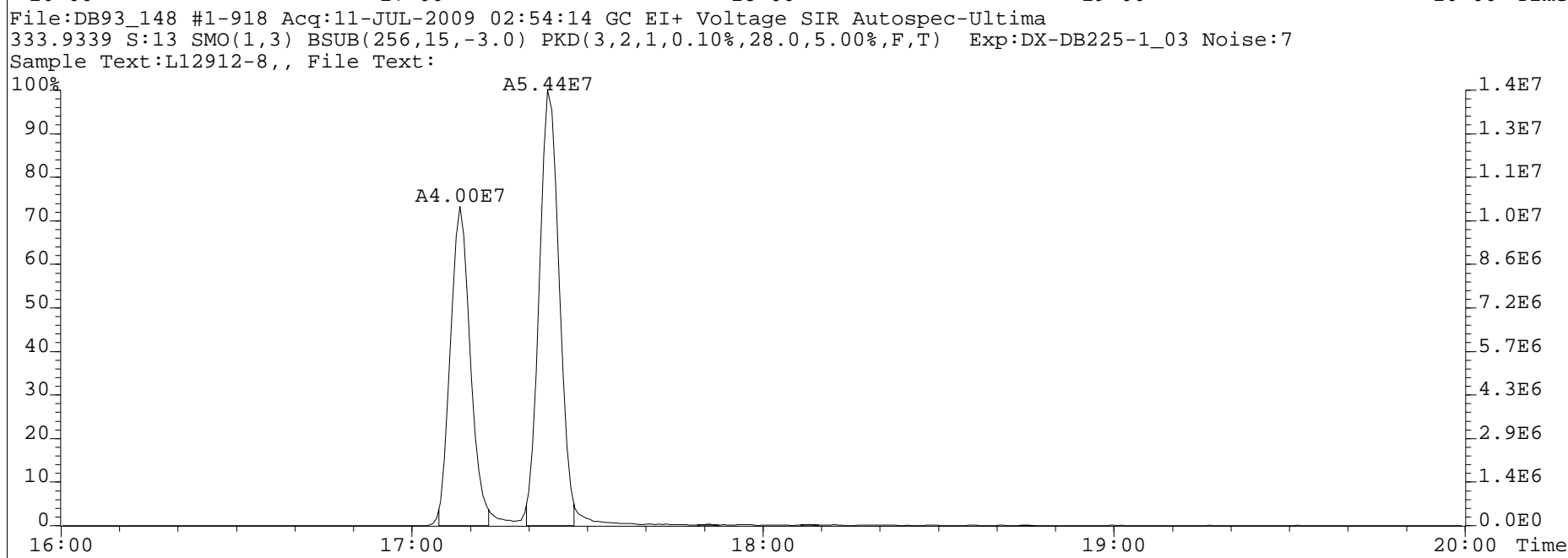
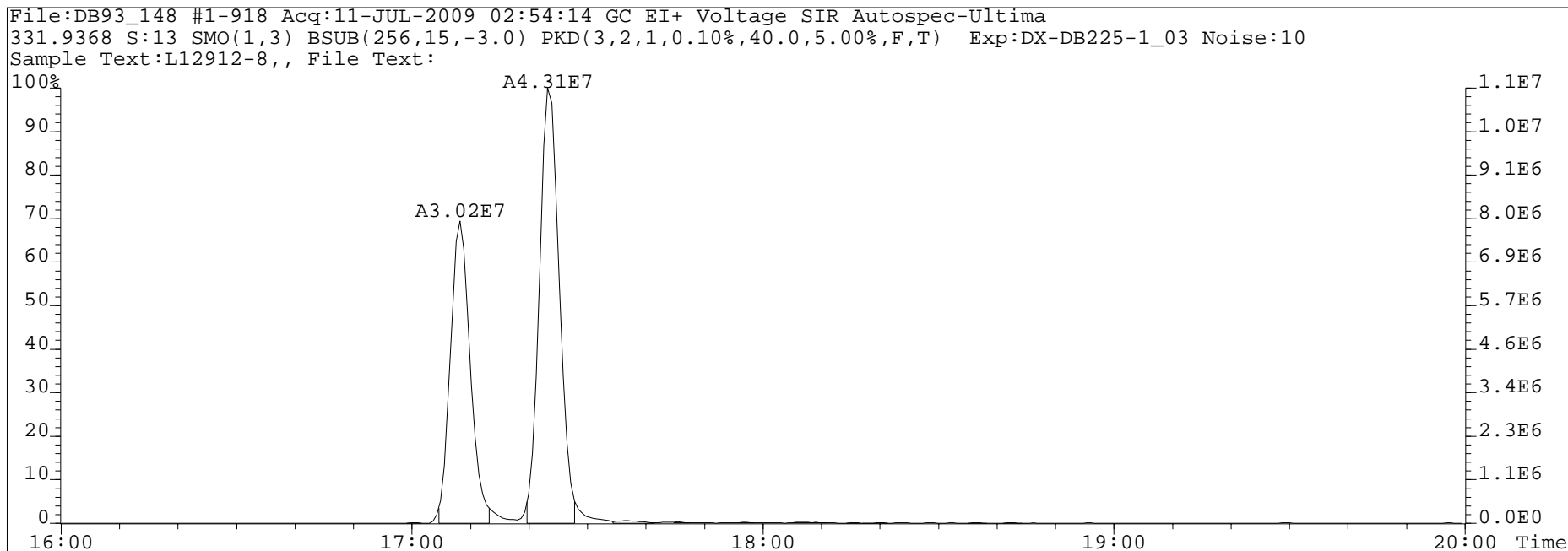
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	6.21e+05	0.70	y 18:29	1.756	0	0.1505	-	y
2 IS/RT	13C-2,3,7,8-TCDF	1	9.01e+07	0.77	y 18:29	126.442	-	0.0006	63.3	n
3 RS	13C-1,2,3,4-TCDD	1	9.75e+07	0.79	y 17:24	14.795	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

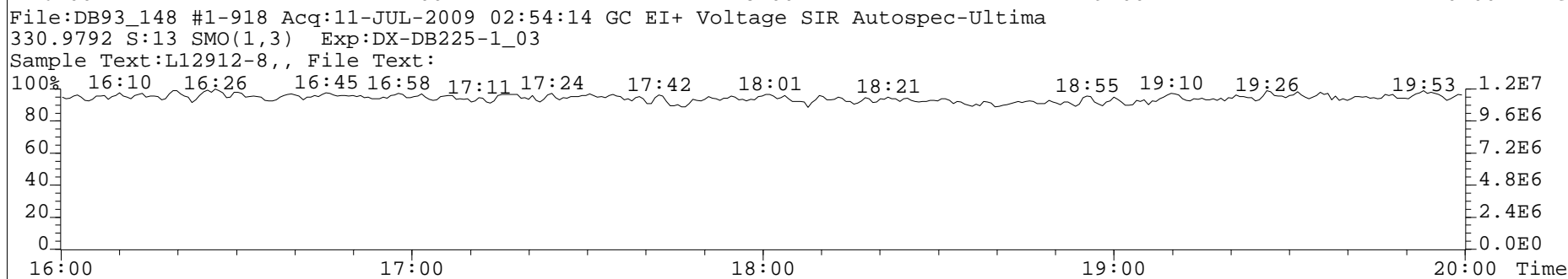
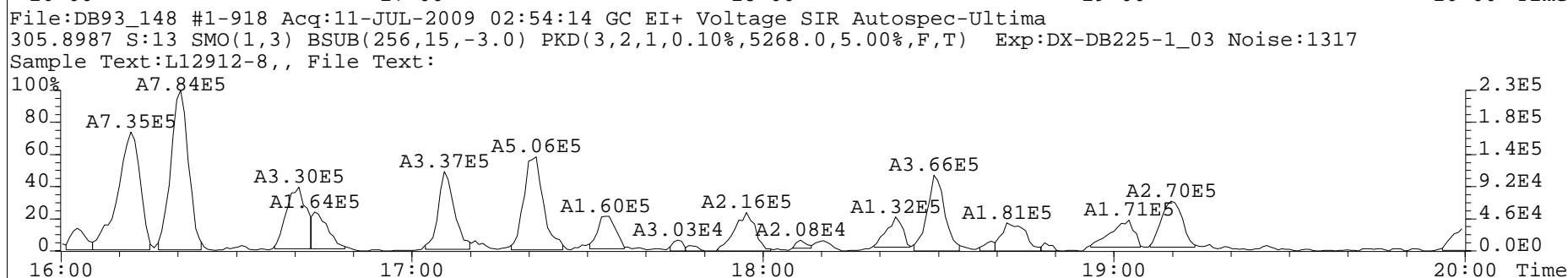
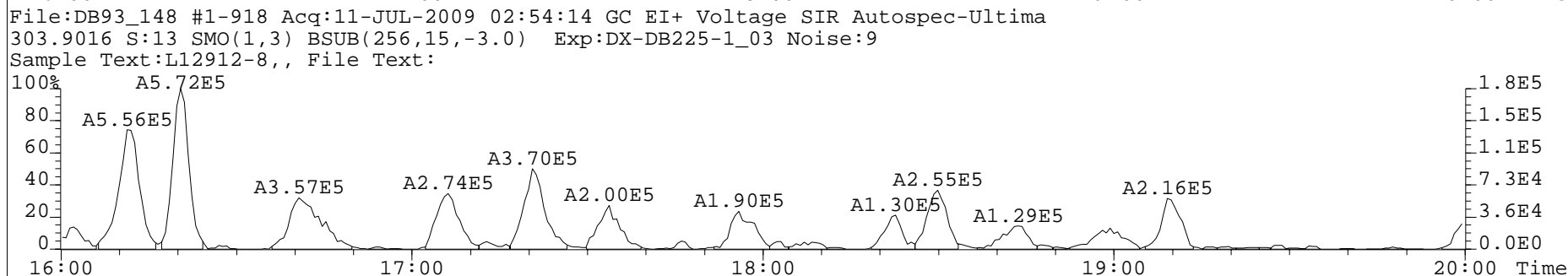
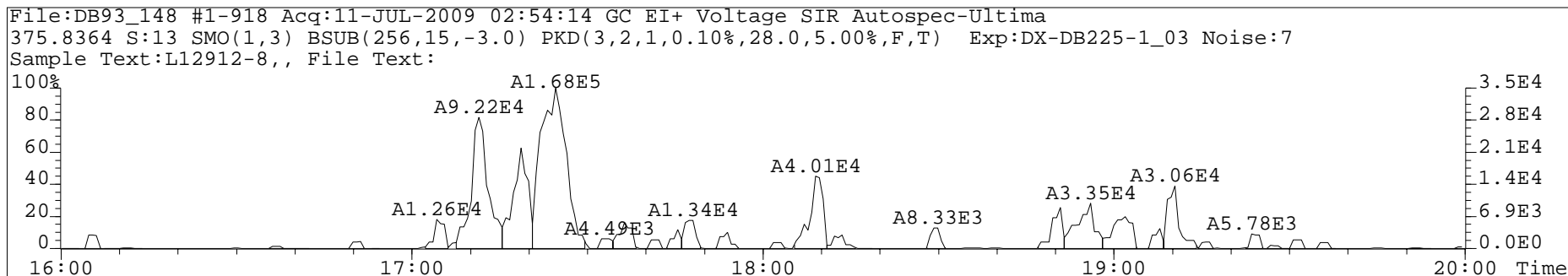
SUN BAA
22-Jul-09

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15-July
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Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fails?	RT	pg	DU	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	10.040	1.23e4	0.79	NO	25.27	1.897	0.0337		4.95e2	4.94e2
2	1,2,3,7,8-PeCDF	10.040	4.69e3	1.24	YES	33.57	0.856	0.0689		7.75e2	6.53e2
3	2,3,4,7,8-PeCDF	10.040	9.89e3	1.68	NO	35.35	1.874	0.0641		7.75e2	6.53e2
4	1,2,3,4,7,8-HxCDF	10.040	2.49e4	1.25	NO	40.71	5.947	0.0560		1.03e3	3.48e2
5	1,2,3,6,7,8-HxCDF	10.040	1.36e4	1.31	NO	40.89	2.870	0.0540		1.03e3	3.48e2
6	2,3,4,6,7,8-HxCDF	10.040	1.17e4	1.21	NO	41.82	2.996	0.0625		1.03e3	3.48e2
7	1,2,3,7,8,9-HxCDF	10.040	1.02e3	1.01	YES	42.86	0.320	0.0770		1.03e3	3.48e2
8	1,2,3,4,6,7,8-HpCDF	10.040	5.47e5	1.00	NO	45.29	163.931	0.1256		1.51e3	1.19e3
9	1,2,3,4,7,8,9-HpCDF	10.040	2.29e4	0.93	NO	47.07	8.530	0.1650		1.51e3	1.19e3
10	OCDF	10.040	1.53e6	0.87	NO	50.29	587.722	0.1070		9.55e2	6.65e2
11	2,3,7,8-TCDD	10.040	2.91e3	0.62	YES	26.50	0.483	0.0530		4.62e2	8.95e2
12	1,2,3,7,8-PeCDD	10.040	1.19e4	0.58	NO	36.16	2.795	0.0494		5.29e2	4.06e2
13	1,2,3,4,7,8-HxCDD	10.040	1.21e4	1.26	NO	42.10	3.424	0.0617		5.96e2	6.78e2
14	1,2,3,6,7,8-HxCDD	10.040	8.32e4	1.27	NO	42.23	23.460	0.0612		5.96e2	6.78e2
15	1,2,3,7,8,9-HxCDD	10.040	3.39e4	1.18	NO	42.66	9.780	0.0627		5.96e2	6.78e2
16	1,2,3,4,6,7,8-HpCDD	10.040	1.45e6	1.03	NO	46.65	453.249	0.2183		2.22e3	2.11e3
17	OCDD	10.040	8.97e6	0.87	NO	50.21	3188.946	0.0505		4.02e2	4.24e2
18	13C-2,3,7,8-TCDF	10.040	1.68e6	0.77	NO	25.22	148.379	0.1090	74.5	2.61e3	2.86e3
19	13C-1,2,3,7,8-PeCDF	10.040	1.31e6	1.53	NO	33.55	165.339	0.1155	83.0	2.41e3	1.63e3
20	13C-2,3,4,7,8-PeCDF	10.040	1.24e6	1.58	NO	35.33	161.114	0.1186	80.9	2.41e3	1.63e3
21	13C-1,2,3,4,7,8-HxCDF	10.040	8.68e5	0.51	NO	40.69	154.150	0.2051	77.4	3.63e3	2.87e3
22	13C-1,2,3,6,7,8-HxCDF	10.040	1.03e6	0.50	NO	40.87	157.560	0.1762	79.1	3.63e3	2.87e3
23	13C-2,3,4,6,7,8-HxCDF	10.040	8.95e5	0.51	NO	41.79	148.911	0.1921	74.8	3.63e3	2.87e3
24	13C-1,2,3,7,8,9-HxCDF	10.040	7.88e5	0.51	NO	42.84	140.440	0.2059	70.5	3.63e3	2.87e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.040	6.29e5	0.44	NO	45.27	139.601	0.2108	70.1	2.93e3	2.42e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.040	5.59e5	0.43	NO	47.05	134.488	0.2289	67.5	2.93e3	2.42e3
27	13C-2,3,7,8-TCDD	10.040	1.34e6	0.77	NO	26.46	153.972	0.1519	77.3	2.61e3	3.25e3
28	13C-1,2,3,7,8-PeCDD	10.040	9.63e5	0.62	NO	36.14	170.867	0.1573	85.8	2.62e3	1.31e3
29	13C-1,2,3,4,7,8-HxCDD	10.040	8.59e5	1.24	NO	42.09	159.519	0.1307	80.1	1.90e3	2.07e3
30	13C-1,2,3,6,7,8-HxCDD	10.040	9.31e5	1.21	NO	42.22	148.132	0.1120	74.4	1.90e3	2.07e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.040	6.62e5	1.07	NO	46.63	140.390	0.1304	70.5	1.31e3	2.15e3
32	13C-OCDD	10.040	1.21e6	0.88	NO	50.21	225.515	0.2427	56.6	3.54e3	3.78e3
33	13C-1,2,3,4-TCDD	10.040	1.59e6	0.77	NO	26.13	8.949	0.0074	4.5	2.61e3	3.25e3
34	13C-1,2,3,7,8,9-HxCDD	10.040	1.10e6	1.24	NO	42.65	9.732	0.0062	4.9	1.90e3	2.07e3
35	37Cl-2,3,7,8-TCDD	10.040	1.58e5			26.50	18.990	0.0317	95.3		1.16e3
36	Total Tetra-Furans	10.040				16.705	47.492	0.0337	0.0498		4.94e2
37	Total Tetra-Dioxins	10.040				15.323	48.292	0.0530			8.95e2
38	Total Penta-Furans	10.040				38.471	39.644	0.0674	0.0690		6.53e2
39	Total Penta-Dioxins	10.040				28.639	30.348	0.0494	0.0498		4.06e2
40	Total Hexa-Furans	10.040				160.717	164.836	0.0668	0.0770		3.48e2
41	Total Hexa-Dioxins	10.040					186.248	0.0602	0.0627		6.78e2
42	Total Hepta-Furans	10.040					548.333	0.1369	0.1650		1.19e3
43	Total Hepta-Dioxins	10.040					879.103	0.2183			2.11e3
44	Hexa DPE	1.000	9.78e2			25.83					7.00e2
45	Hepta DPE	1.000	1.72e2			37.61					4.57e2
46	Octa DPE	1.000	1.37e2			42.84					8.09e2
47	Nona DPE	1.000	3.68e2			46.63					1.45e3
48	Deca DPE	1.000	5.38e1			49.24					7.69e2
49	Tetra Lock	1.000	6.16e3			27.01					1.21e5
50	Penta Lock	1.000	9.88e4			29.71					9.39e4
51	Hexa Lock	1.000	5.66e5			39.85					1.56e5
52	Hepta Lock	1.000	2.00e4			44.50					1.15e5
53	Octa Lock	1.000	2.15e5			49.69					4.41e4

PV WL 15-JUL-2009
 SUD BRA 22-Jul-09

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	Ratio (A)	Fails?	pg
1	23.84	0.727	NO	1.671
2	23.34	0.754	NO	2.170
3	22.98	0.730	NO	2.013
4	22.55	0.767	NO	1.614
5	22.23	0.700	NO	2.876
6	21.94	0.745	NO	0.523
7	21.41	0.770	NO	0.468
8	27.70	0.836	NO	0.082
9	26.55	0.607	YES	0.102
10	26.26	0.758	NO	0.271
11	25.95	0.805	NO	0.623
12	25.27	0.793	NO	1.897
13	24.94	0.634	YES	0.383
14	24.60	0.682	NO	0.940
15	24.13	0.756	NO	1.557

19

Tetradioxins

	RT	Ratio (A)	Fails?	pg
1	27.11	0.721	NO	0.420
2	26.50	0.625	YES	0.483
3	26.33	0.884	NO	1.018
4	26.15	0.810	NO	1.217
5	25.62	0.763	NO	0.470
6	25.22	1.230	YES	1.779
7	25.09	0.640	YES	0.404
8	24.89	0.586	YES	0.226
9	24.68	0.724	NO	2.144
10	23.75	0.867	NO	1.333
11	23.36	0.782	NO	3.703
12	22.94	0.760	NO	4.773
13	28.35	1.000	YES	0.076
14	27.52	0.700	NO	0.140
15	26.73	0.831	NO	0.105

19

Pentafurans

	RT	Ratio (A)	Fails?	pg
1	31.94	1.402	NO	0.353
2	31.54	1.541	NO	8.455
3	31.15	1.050	YES	0.175
4	28.92	1.505	NO	20.834
5	35.65	1.501	NO	1.651
6	35.35	1.677	NO	1.874
7	34.31	1.337	NO	1.307
8	33.97	2.124	YES	0.142
9	33.57	1.240	YES	0.856
10	33.44	1.702	NO	0.471
11	32.94	1.511	NO	3.156
12	32.49	1.531	NO	0.370

19

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

Pentadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	35.11	0.662	NO	2.170
2	34.93	0.643	NO	1.048
3	34.53	0.585	NO	2.436
4	34.20	0.605	NO	2.742
5	33.88	0.566	NO	3.321
6	33.19	0.630	NO	3.496
7	32.05	0.616	NO	10.083
8	37.07	0.685	NO	0.548
9	36.47	0.443	YES	0.708
10	36.16	0.577	NO	2.795
11	35.73	1.245	YES	0.089
12	35.54	0.713	YES	0.913

Hexafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	41.66	1.205	NO	3.768
2	41.40	1.119	NO	0.178
3	41.30	1.380	NO	0.409
4	40.89	1.314	NO	2.870
5	40.71	1.247	NO	5.947
6	40.06	1.191	NO	74.130
7	39.77	1.144	NO	3.561
8	39.51	1.156	NO	0.724
9	39.24	1.197	NO	50.106
10	39.00	1.211	NO	15.193
11	43.01	1.126	NO	0.835
12	42.86	1.006	YES	0.320
13	41.82	1.207	NO	2.996

Hexadioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	41.22	1.227	NO	50.057
2	40.84	1.382	NO	9.284
3	40.03	1.216	NO	87.696
4	42.66	1.177	NO	9.780
5	42.23	1.272	NO	23.460
6	42.10	1.256	NO	3.424
7	41.41	1.268	NO	2.548

Heptafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	45.60	1.033	NO	6.049
2	45.29	0.998	NO	163.931
3	47.07	0.935	NO	8.530
4	45.80	0.998	NO	369.823

PV WL 15-JUL-2009



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

Heptadioxins

	RT	Ratio (A	Fails?	pg
1	45.75	1.011	NO	425.854
2	46.65	1.025	NO	453.249

lg



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

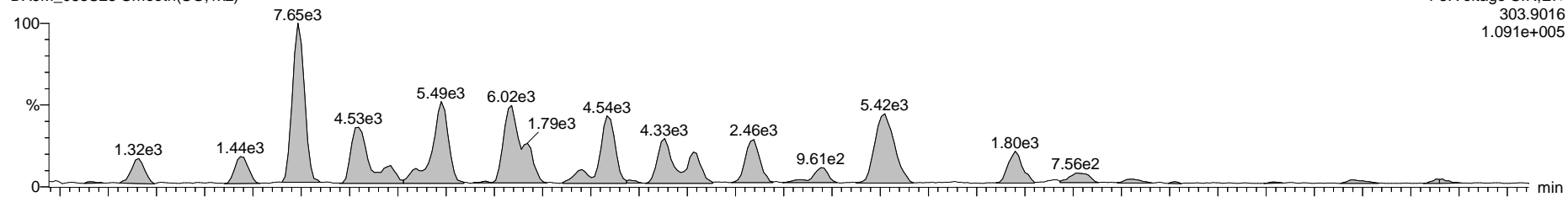
Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

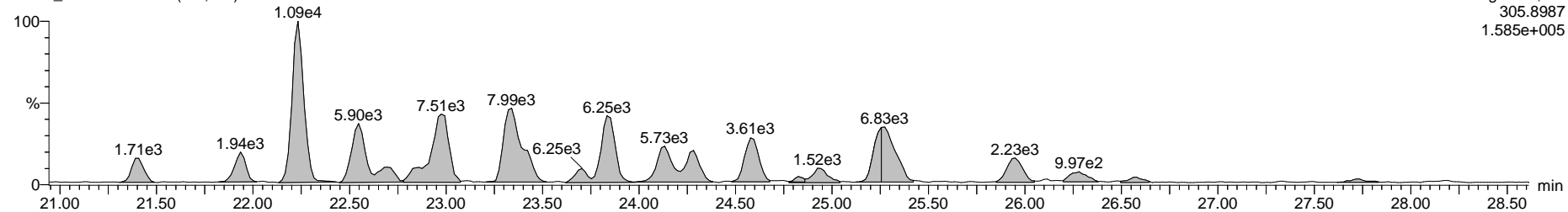
DX9M_083S23 Smooth(SG,1x2)

F3:Voltage SIR,EI+
303.9016
1.091e+005



DX9M_083S23 Smooth(SG,1x2)

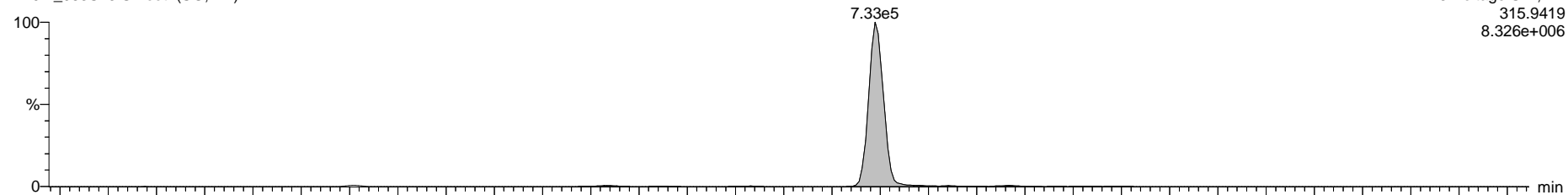
F3:Voltage SIR,EI+
305.8987
1.585e+005



13C-2,3,7,8-TCDF

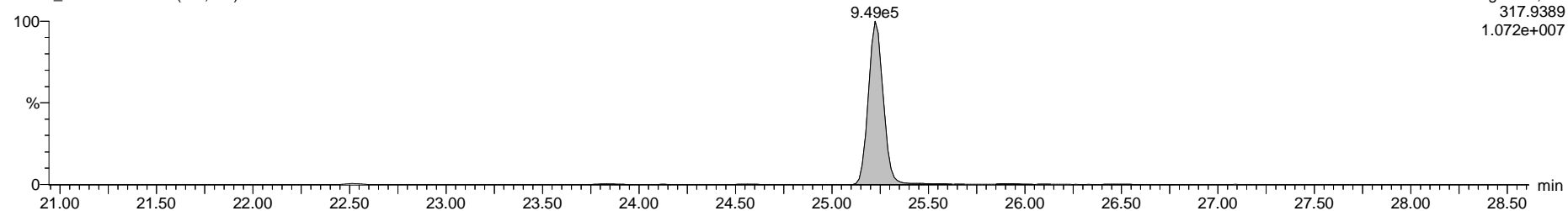
DX9M_083S23 Smooth(SG,1x2)

F3:Voltage SIR,EI+
315.9419
8.326e+006



DX9M_083S23 Smooth(SG,1x2)

F3:Voltage SIR,EI+
317.9389
1.072e+007

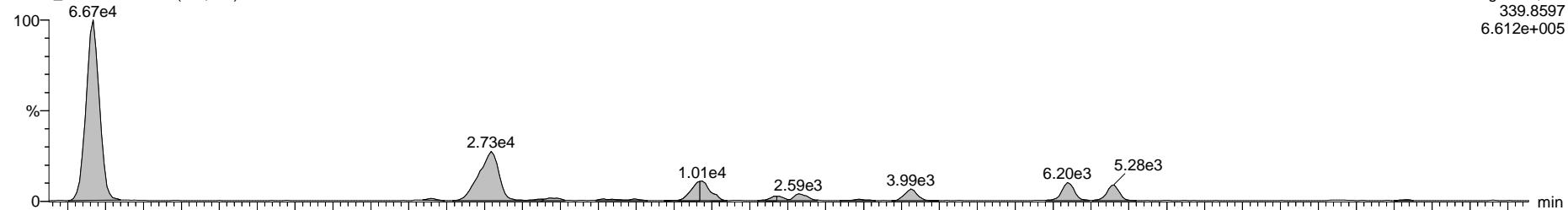


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

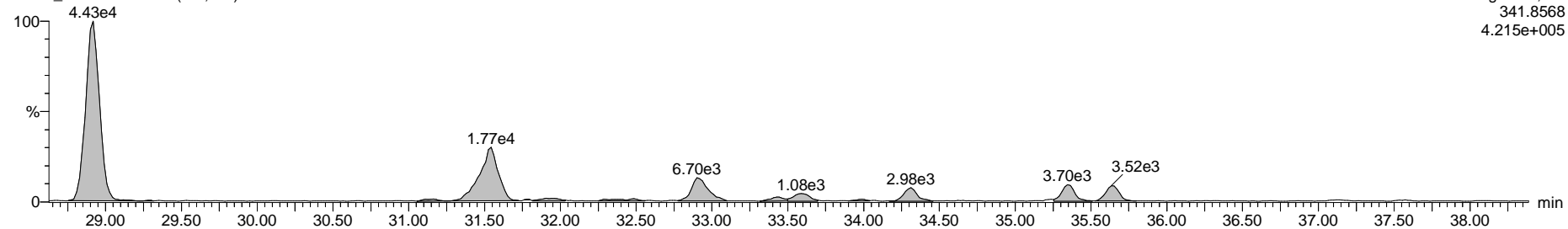
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S23 Smooth(SG,1x2)

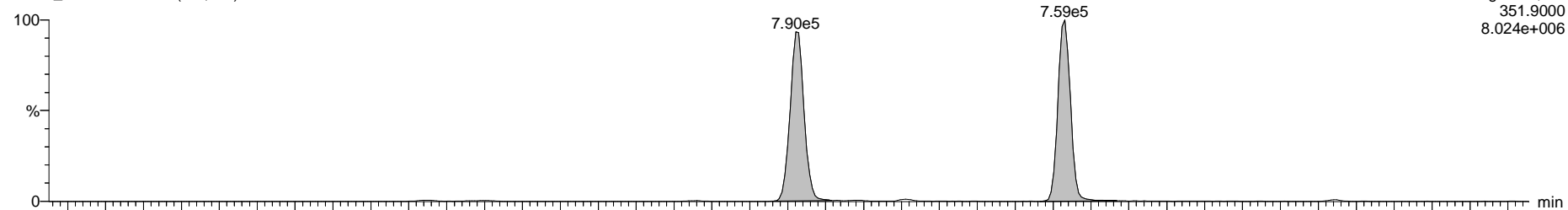


DX9M_083S23 Smooth(SG,1x2)

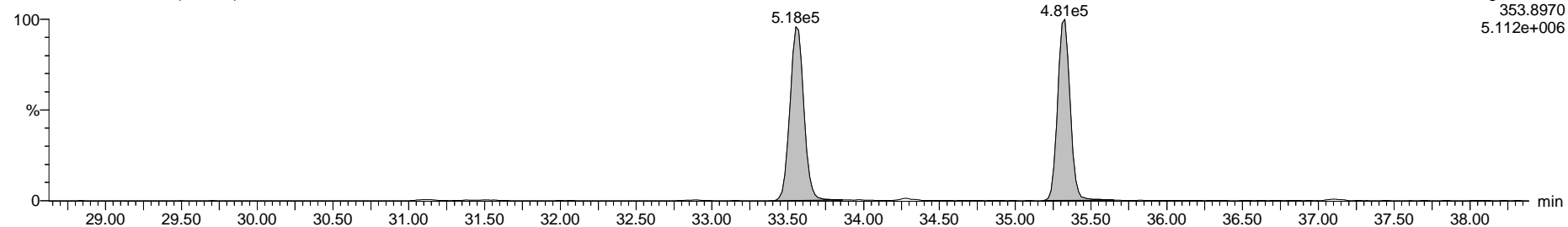


13C-1,2,3,7,8-PeCDF

DX9M_083S23 Smooth(SG,1x2)



DX9M_083S23 Smooth(SG,1x2)

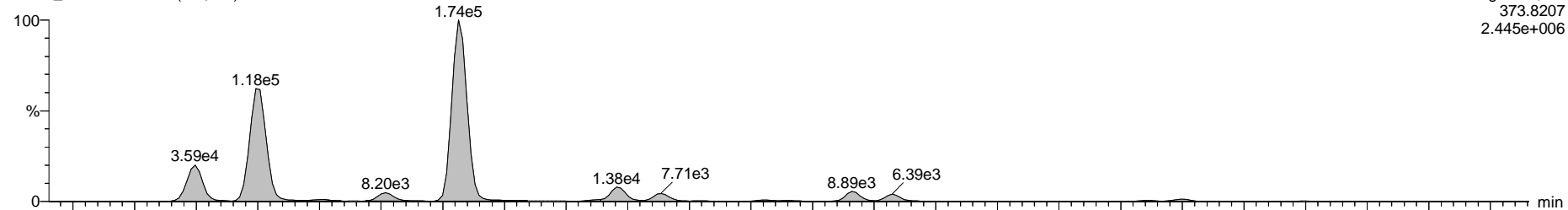


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

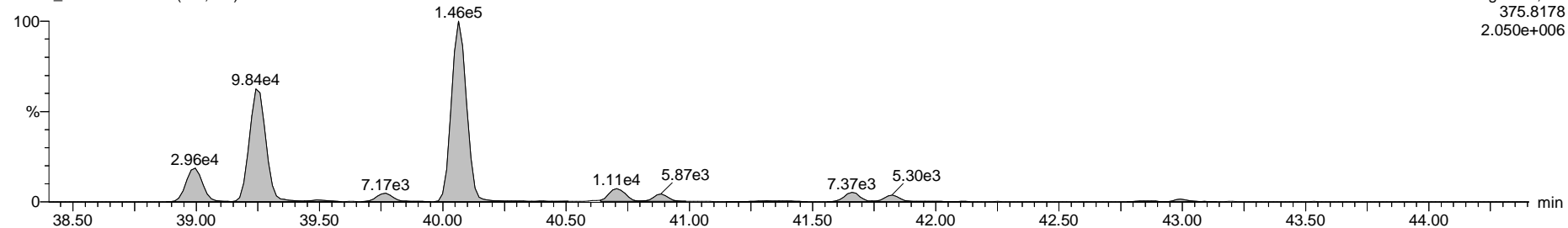
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S23 Smooth(SG,1x2)

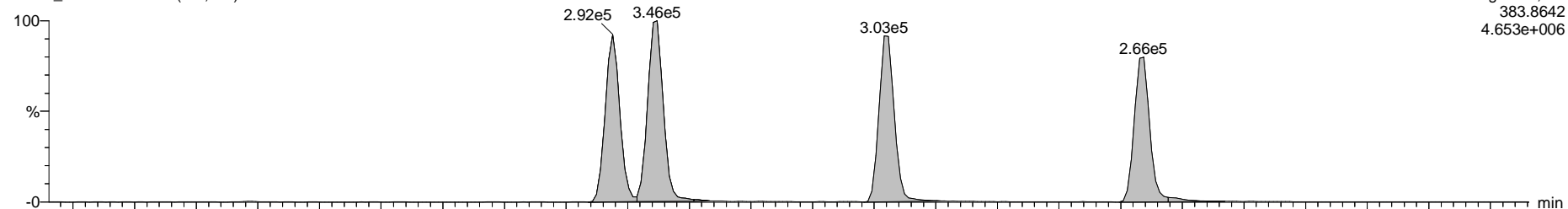


DX9M_083S23 Smooth(SG,1x2)

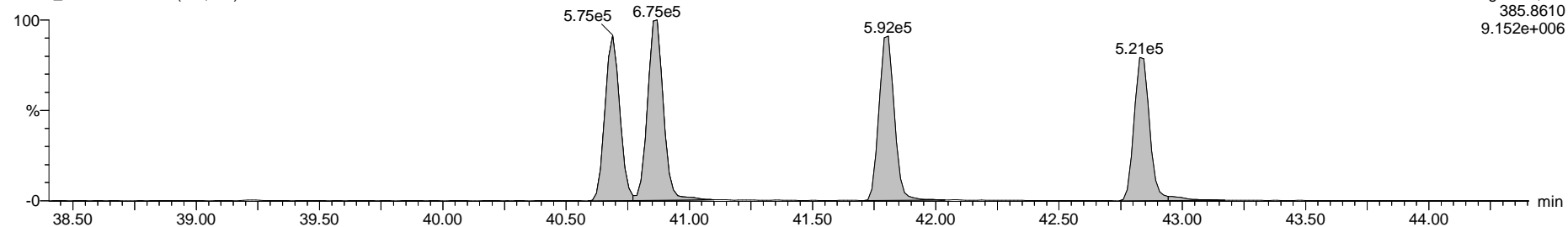


13C-1,2,3,4,7,8-HxCDF

DX9M_083S23 Smooth(SG,1x2)



DX9M_083S23 Smooth(SG,1x2)



PV WL 15-JUL-2009

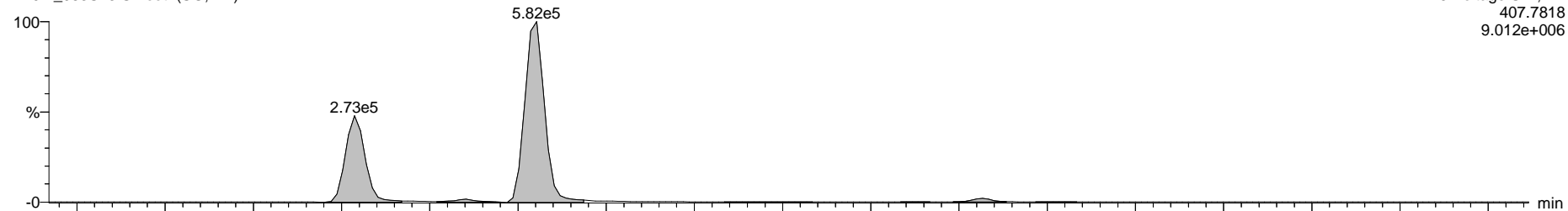


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

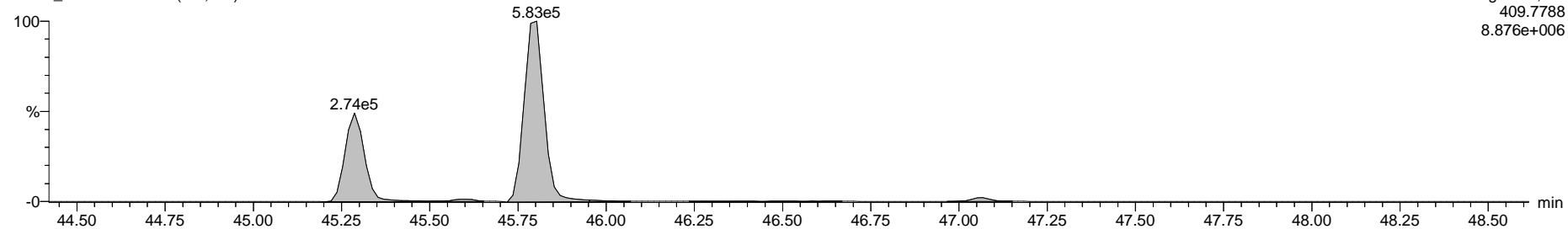
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,, Description: 1,WG29271,1.0/20uL

Total Hepta-Furans

DX9M_083S23 Smooth(SG,1x2)

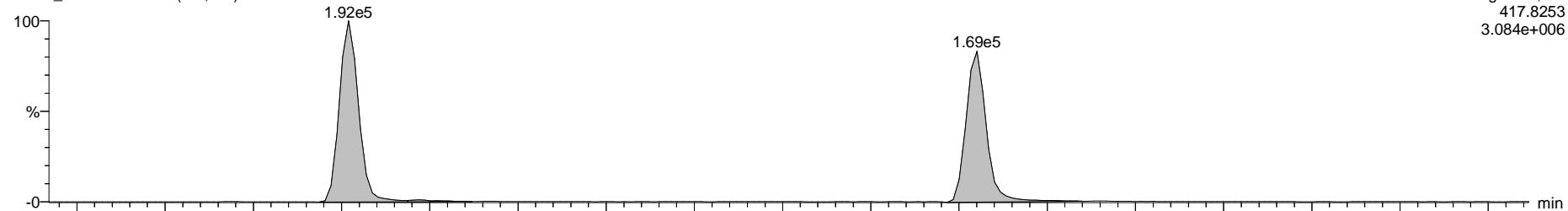


DX9M_083S23 Smooth(SG,1x2)

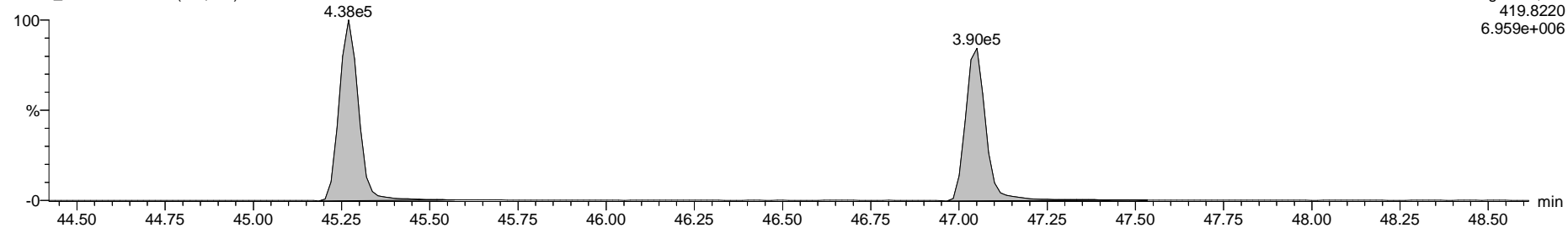


13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S23 Smooth(SG,1x2)



DX9M_083S23 Smooth(SG,1x2)



PV WL 15-JUL-2009

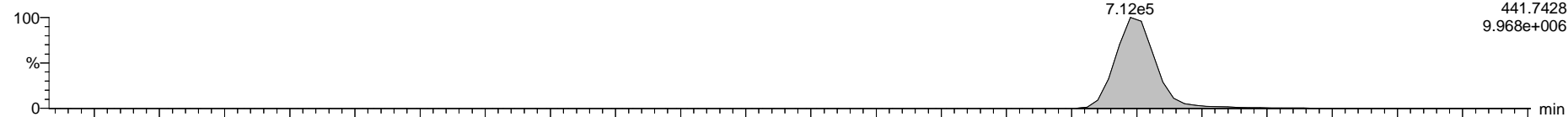


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,, Description: 1,WG29271,1.0/20uL

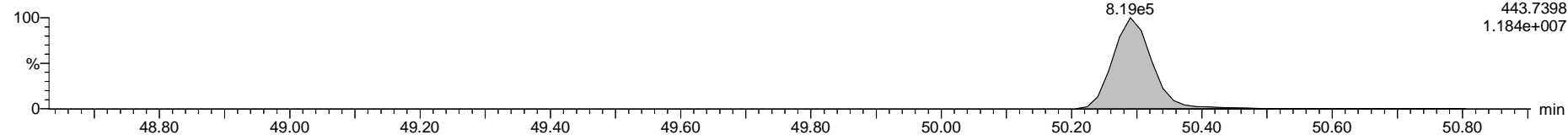
OCDF

DX9M_083S23 Smooth(SG,1x2)



F7:Voltage SIR,EI+
441.7428
9.968e+006

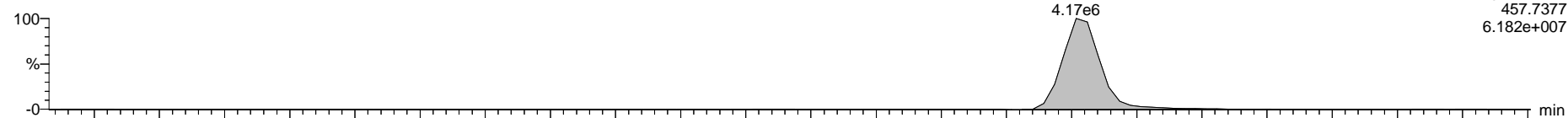
DX9M_083S23 Smooth(SG,1x2)



F7:Voltage SIR,EI+
443.7398
1.184e+007

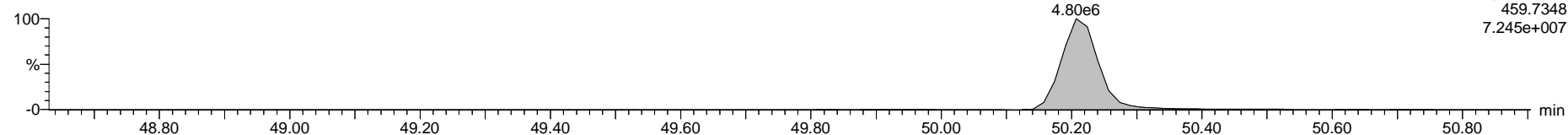
OCDD

DX9M_083S23 Smooth(SG,1x2)



F7:Voltage SIR,EI+
457.7377
6.182e+007

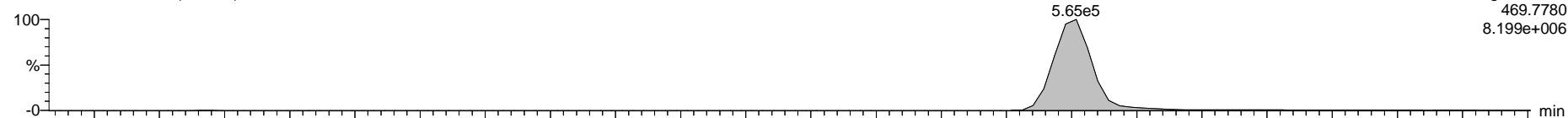
DX9M_083S23 Smooth(SG,1x2)



F7:Voltage SIR,EI+
459.7348
7.245e+007

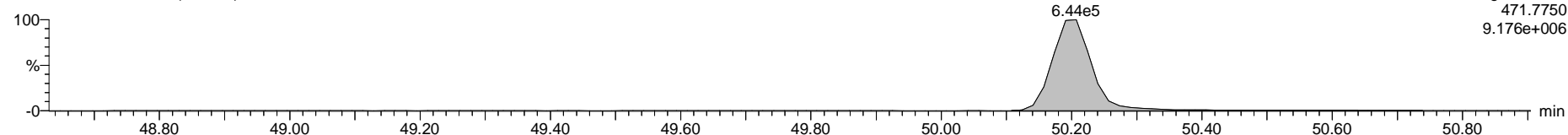
13C-OCDD

DX9M_083S23 Smooth(SG,1x2)



F7:Voltage SIR,EI+
469.7780
8.199e+006

DX9M_083S23 Smooth(SG,1x2)



F7:Voltage SIR,EI+
471.7750
9.176e+006

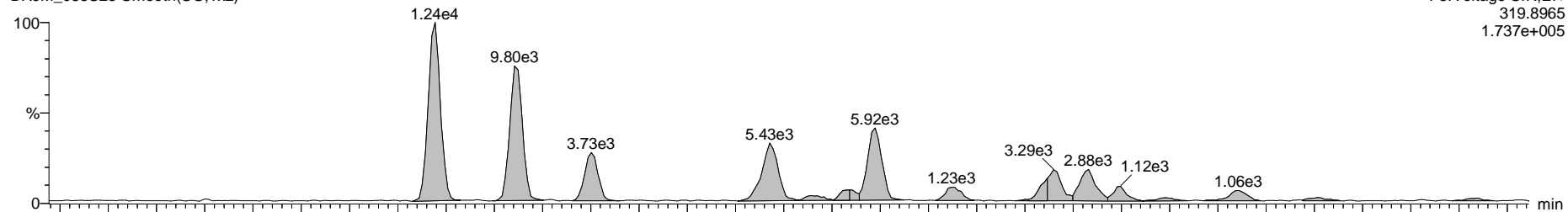


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

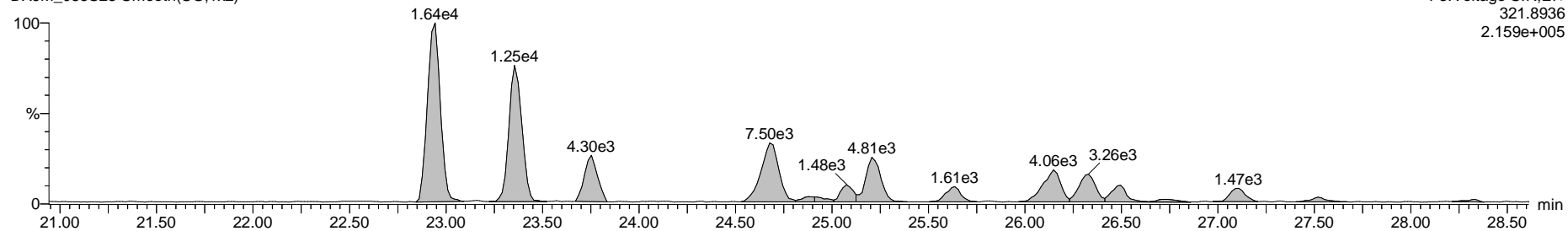
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_083S23 Smooth(SG,1x2)

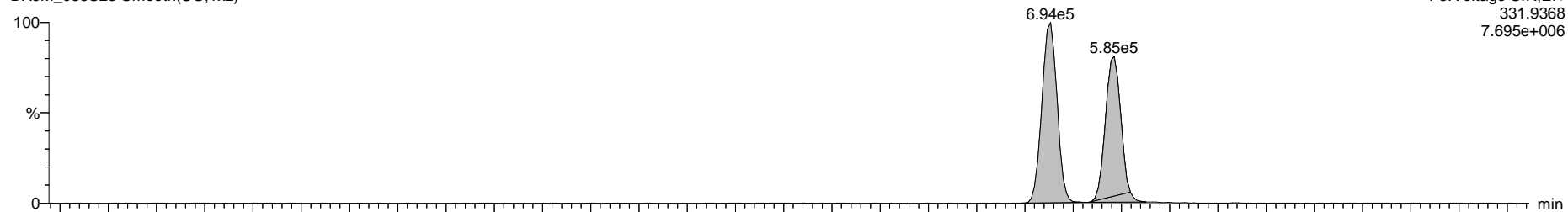


DX9M_083S23 Smooth(SG,1x2)

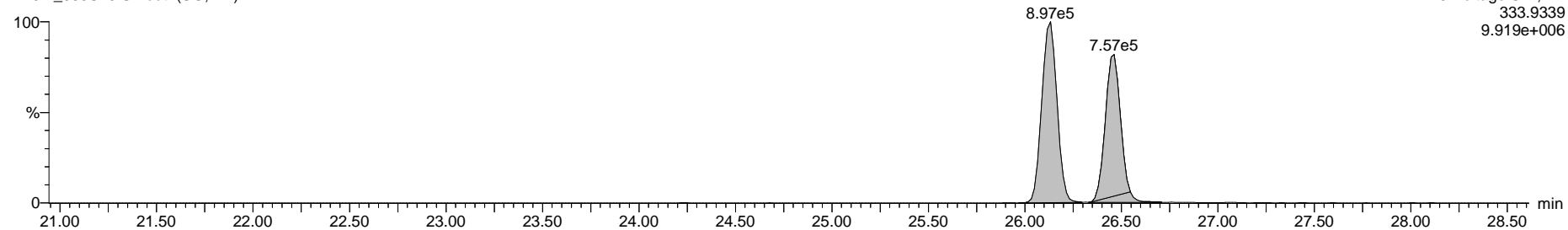


13C-2,3,7,8-TCDD

DX9M_083S23 Smooth(SG,1x2)



DX9M_083S23 Smooth(SG,1x2)



PV WL 15-JUL-2009

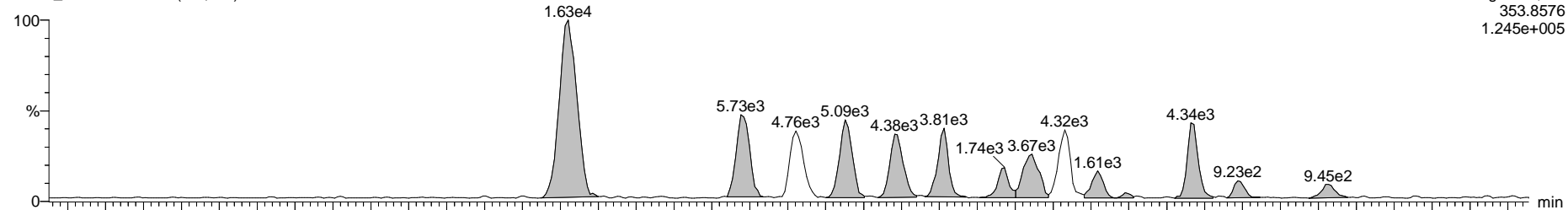


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

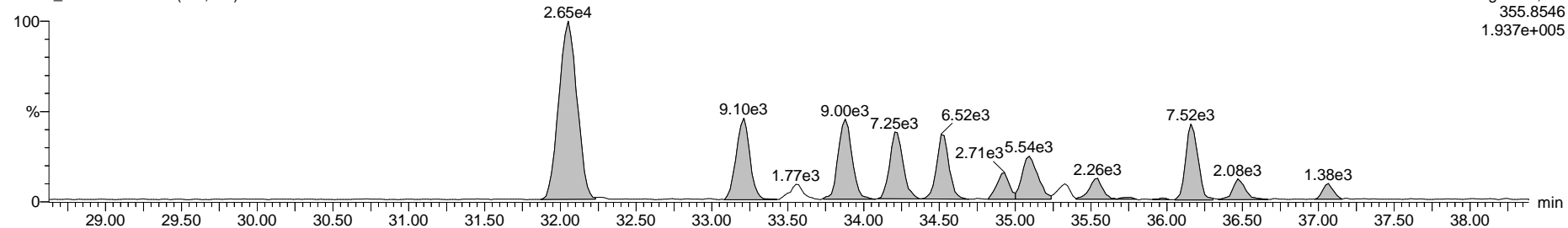
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,, Description: 1,WG29271,1.0/20uL

Total Penta-Dioxins

DX9M_083S23 Smooth(SG,1x2)

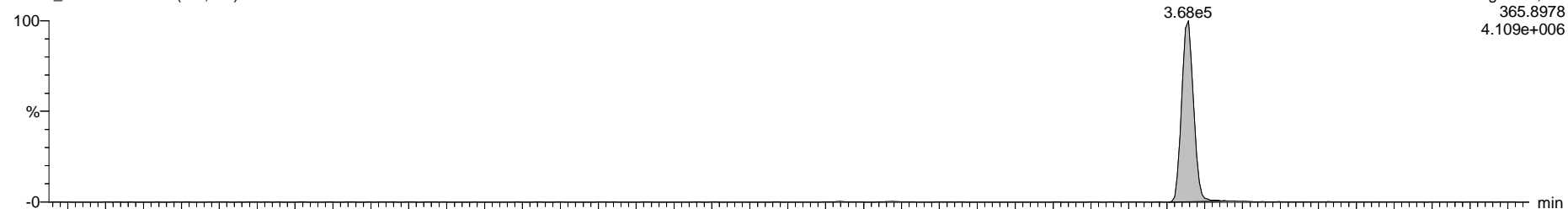


DX9M_083S23 Smooth(SG,1x2)

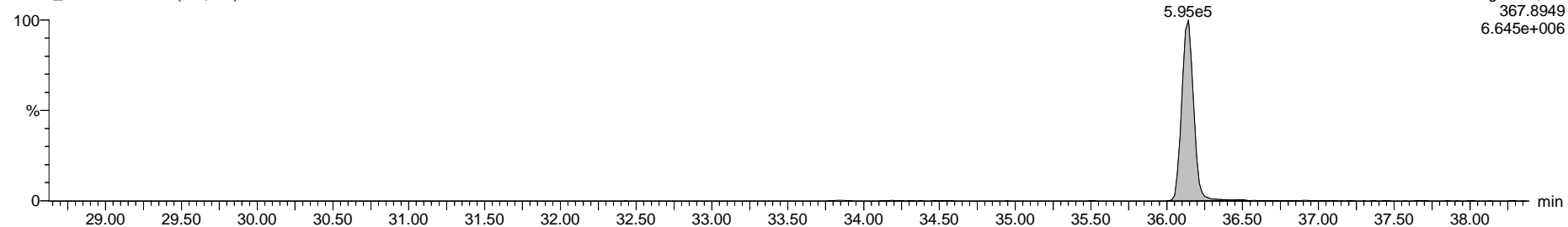


13C-1,2,3,7,8-PeCDD

DX9M_083S23 Smooth(SG,1x2)



DX9M_083S23 Smooth(SG,1x2)

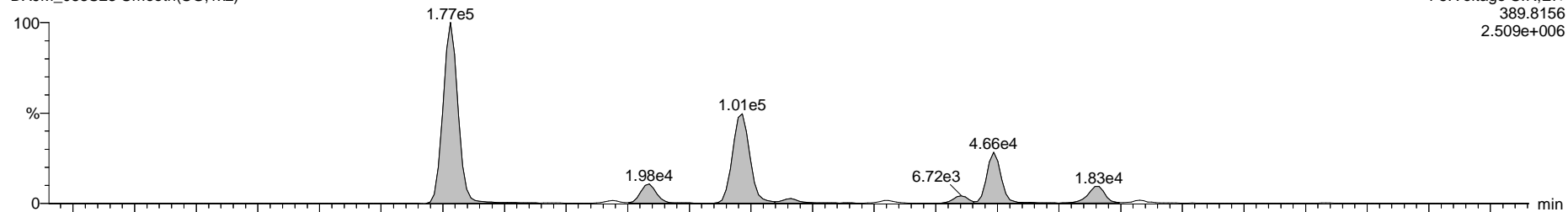


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

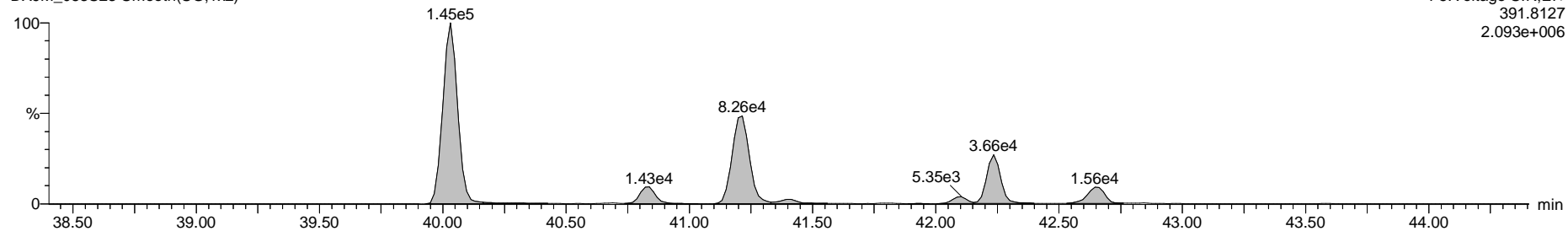
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S23 Smooth(SG,1x2)

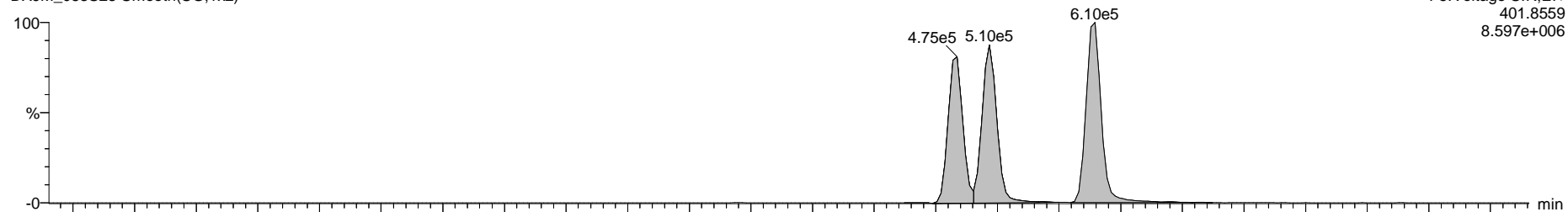


DX9M_083S23 Smooth(SG,1x2)

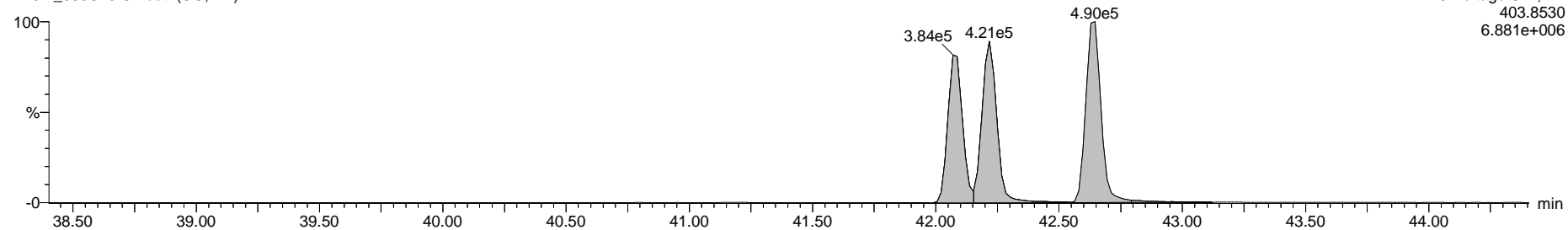


13C-1,2,3,4,7,8-HxCDD

DX9M_083S23 Smooth(SG,1x2)



DX9M_083S23 Smooth(SG,1x2)

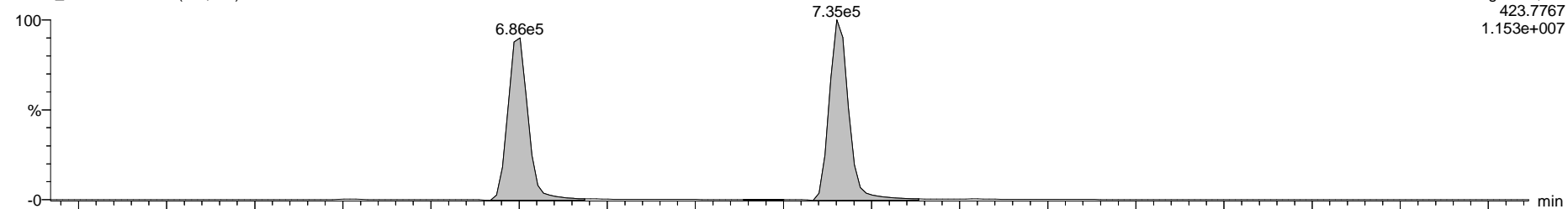


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

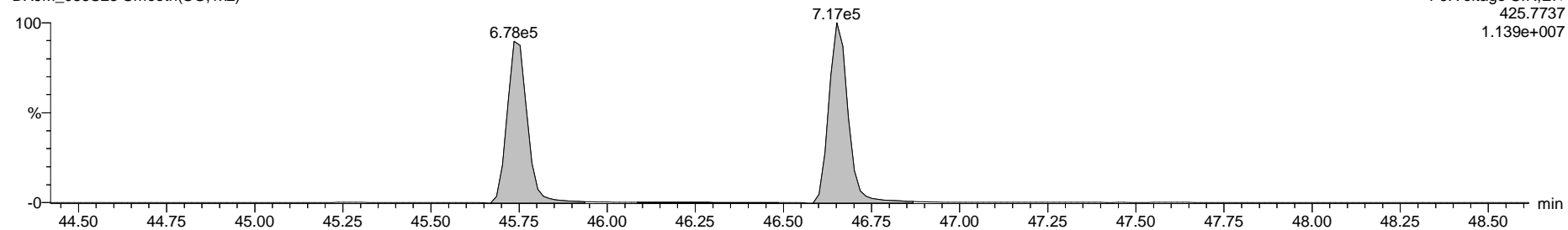
Total Hepta-Dioxins

DX9M_083S23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
1.153e+007

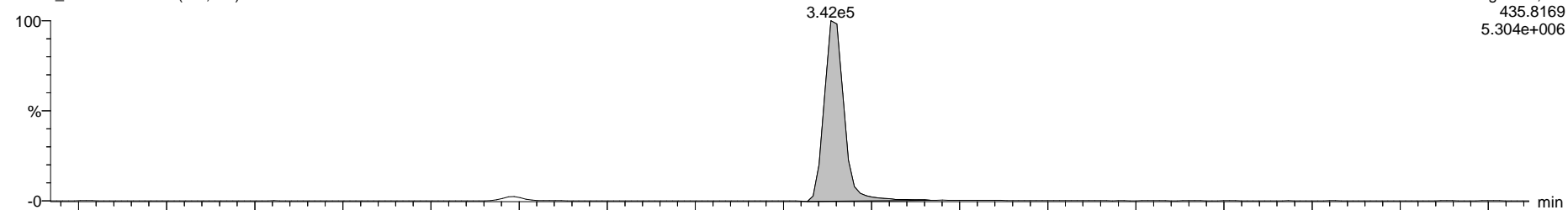
DX9M_083S23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
1.139e+007

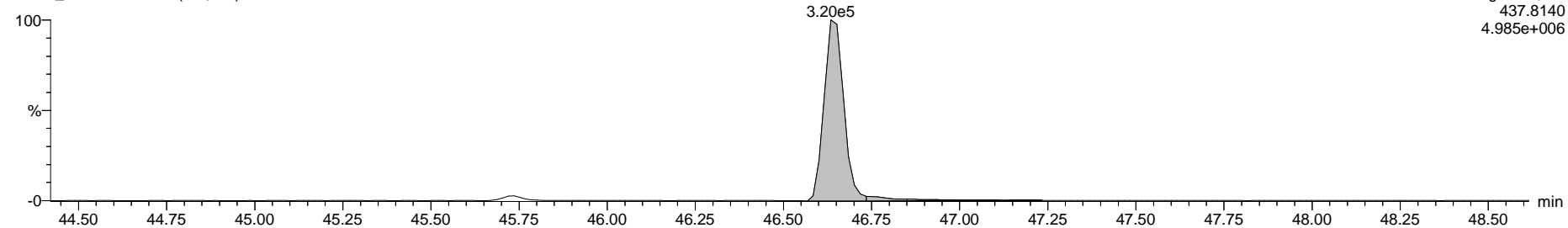
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
5.304e+006

DX9M_083S23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
4.985e+006

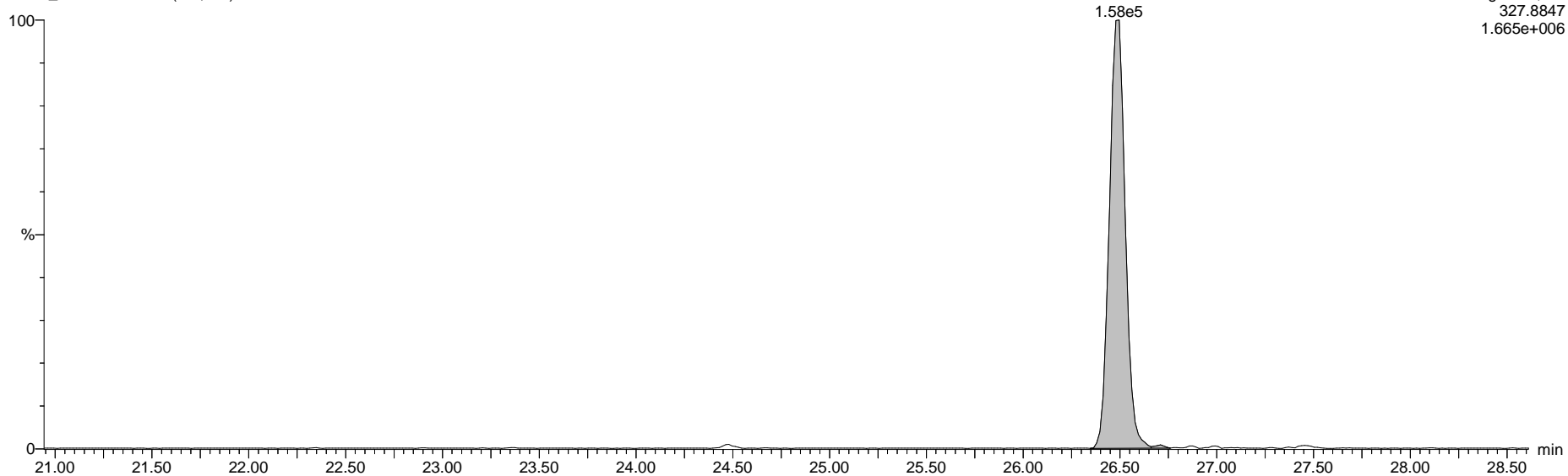


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

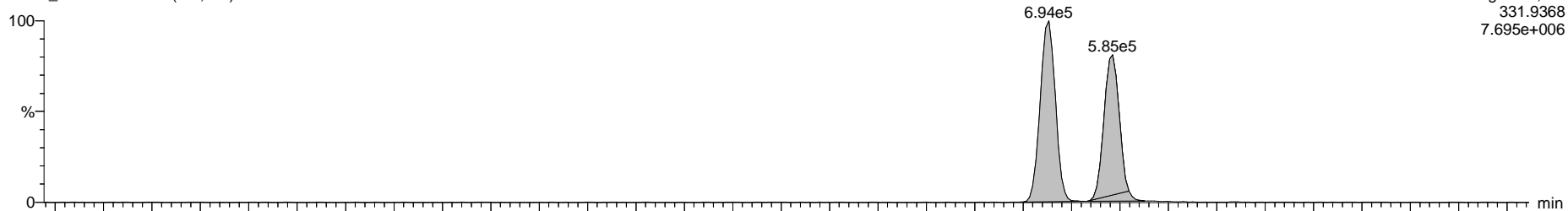
37Cl-2,3,7,8-TCDD

DX9M_083S23 Smooth(SG,1x2)

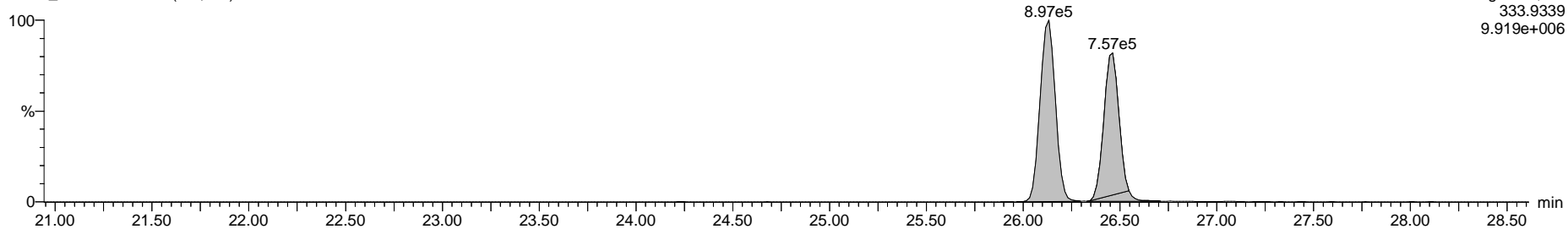


13C-1,2,3,4-TCDD

DX9M_083S23 Smooth(SG,1x2)



DX9M_083S23 Smooth(SG,1x2)



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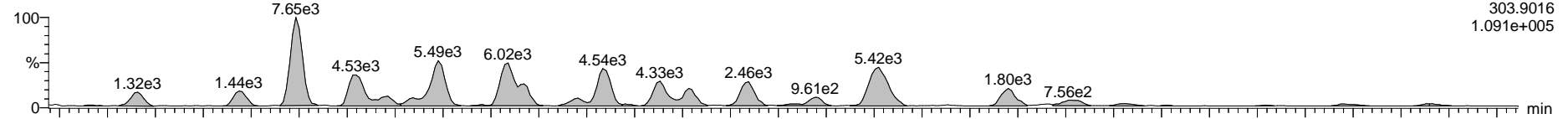
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,,, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

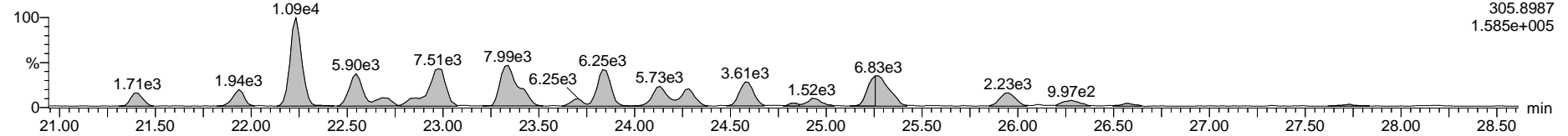
DX9M_083S23 Smooth(SG,1x2)

F3:Voltage SIR,EI+
303.9016
1.091e+005



DX9M_083S23 Smooth(SG,1x2)

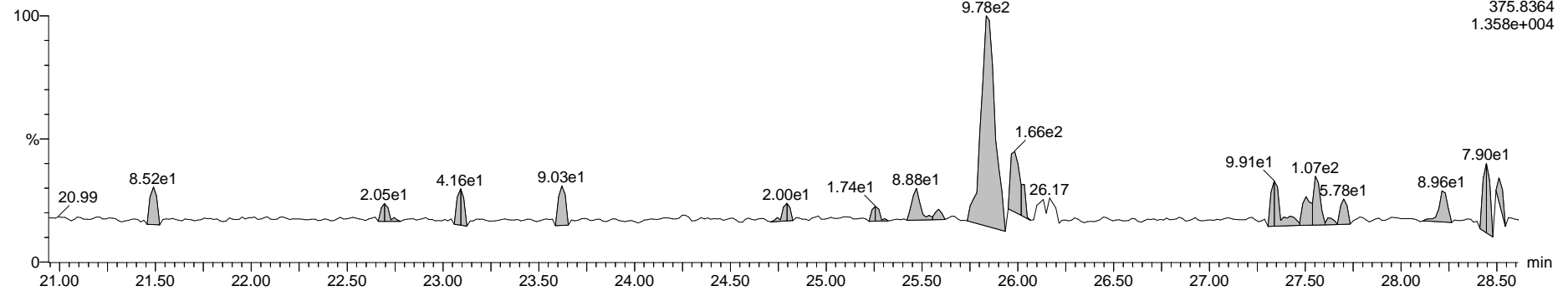
F3:Voltage SIR,EI+
305.8987
1.585e+005



Hexa DPE

DX9M_083S23 Smooth(SG,1x2)

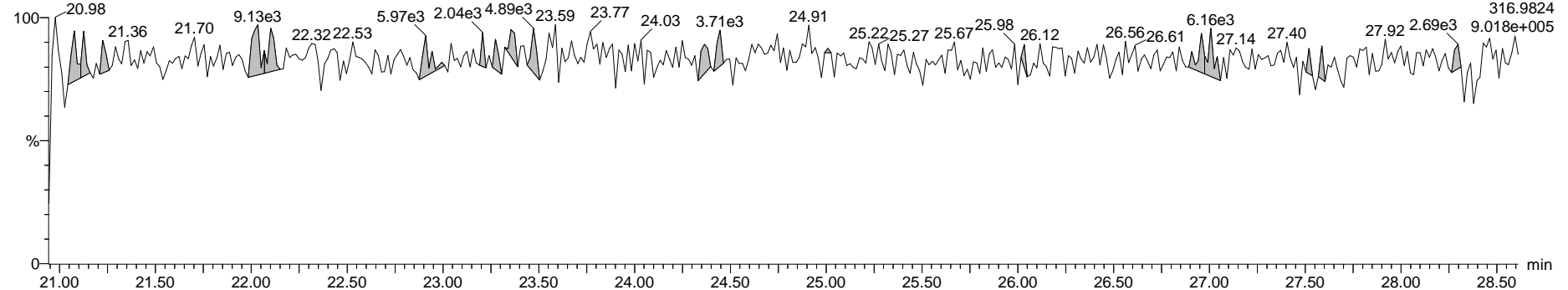
F3:Voltage SIR,EI+
375.8364
1.358e+004



Tetra Lock

DX9M_083S23

F3:Voltage SIR,EI+
316.9824
9.018e+005

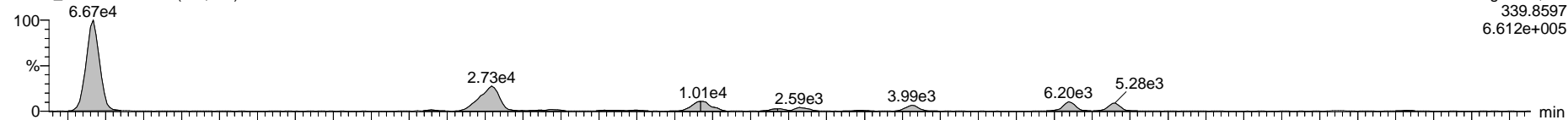


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

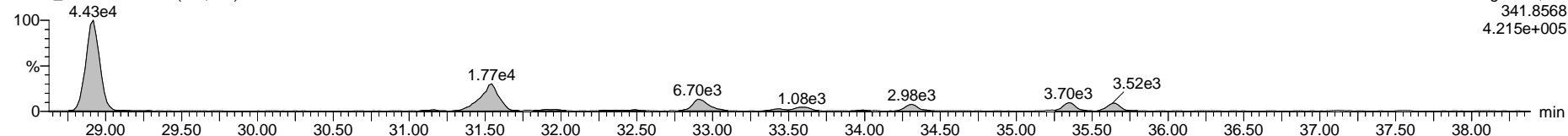
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S23 Smooth(SG,1x2)

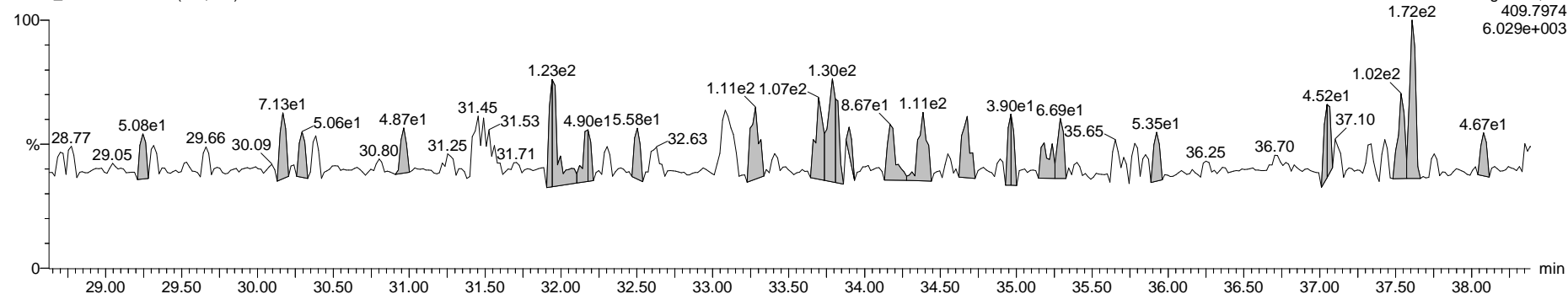


DX9M_083S23 Smooth(SG,1x2)



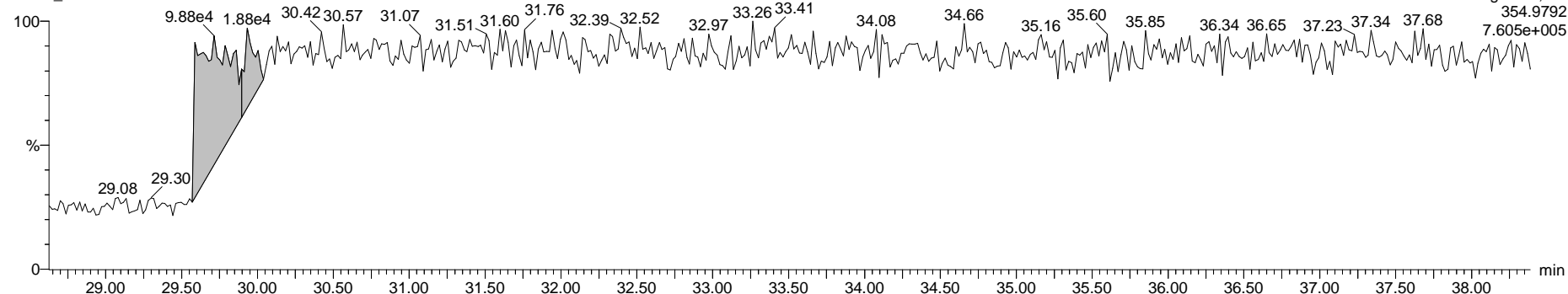
Hepta DPE

DX9M_083S23 Smooth(SG,1x2)



Penta Lock

DX9M_083S23

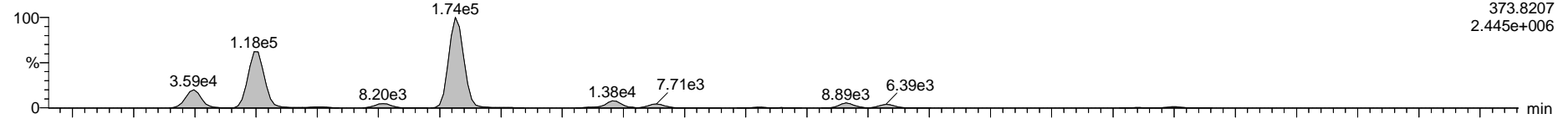


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

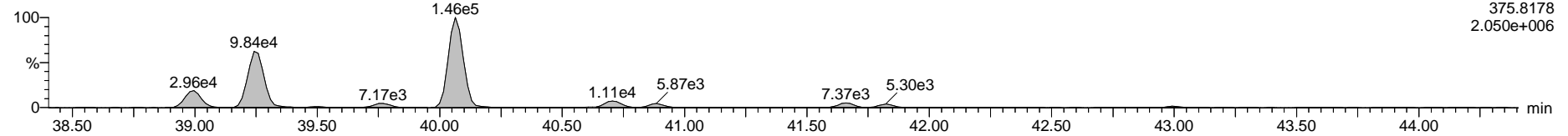
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S23 Smooth(SG,1x2)

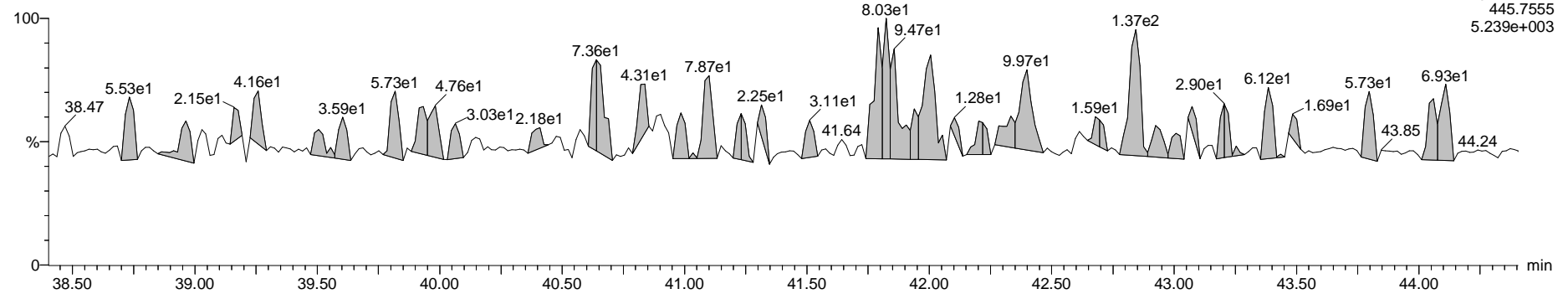


DX9M_083S23 Smooth(SG,1x2)



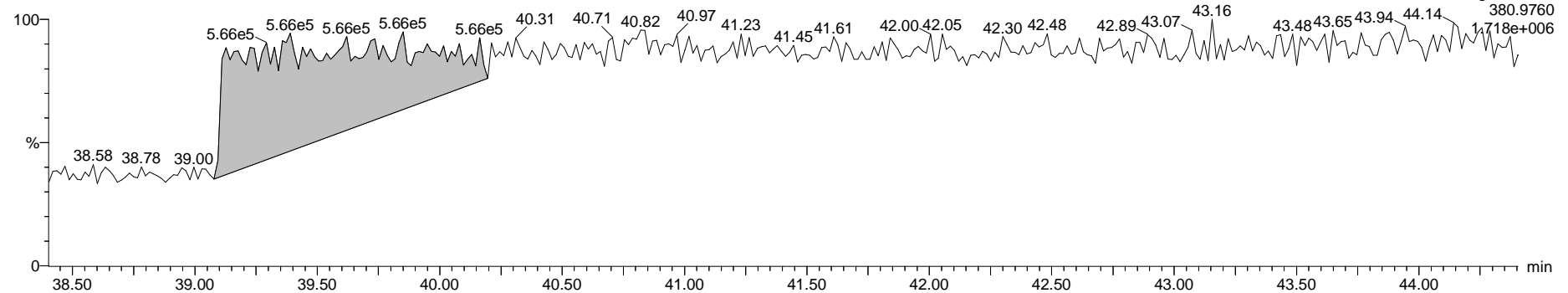
Octa DPE

DX9M_083S23 Smooth(SG,1x2)



Hexa Lock

DX9M_083S23



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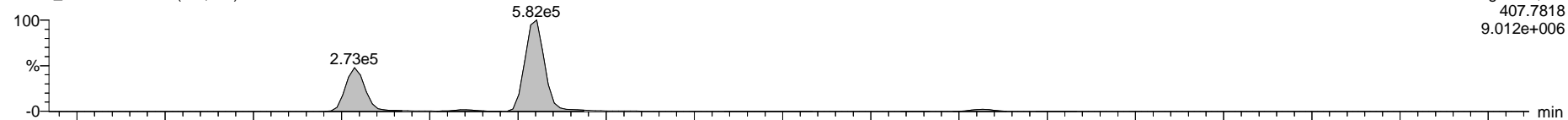


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

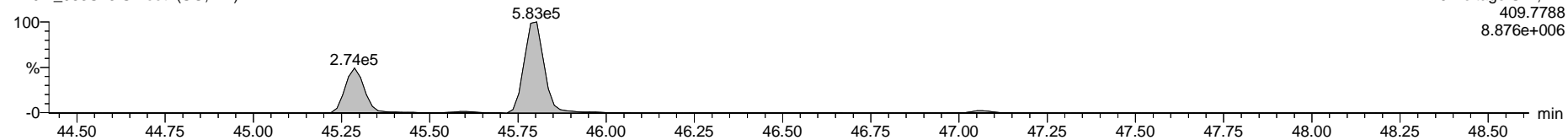
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,, Description: 1,WG29271,1.0/20uL

Total Hepta-Furans

DX9M_083S23 Smooth(SG,1x2)

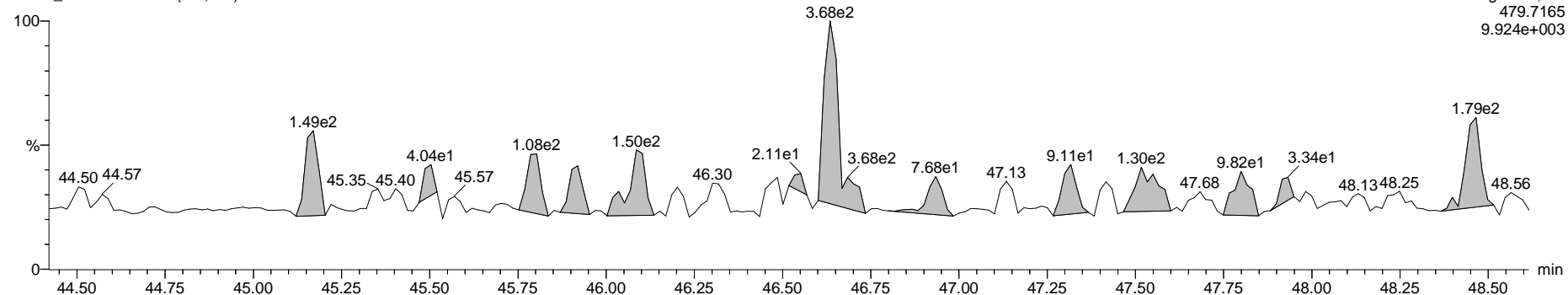


DX9M_083S23 Smooth(SG,1x2)



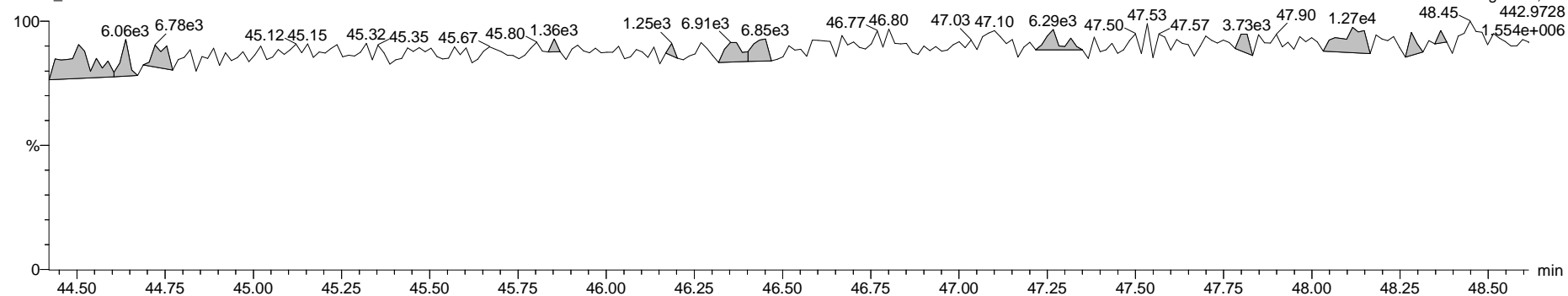
Nona DPE

DX9M_083S23 Smooth(SG,1x2)



Hepta Lock

DX9M_083S23



PV WL 15-JUL-2009

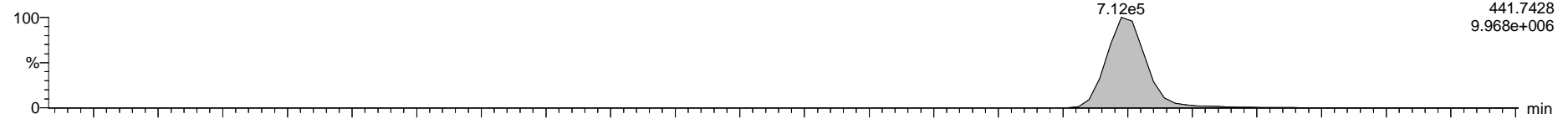


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

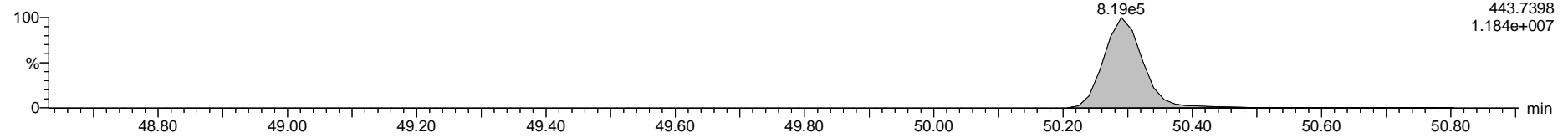
Name: DX9M_083S23, Date: 11-Jul-2009, Time: 04:50:34, ID: L12912-9,, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S23 Smooth(SG,1x2)

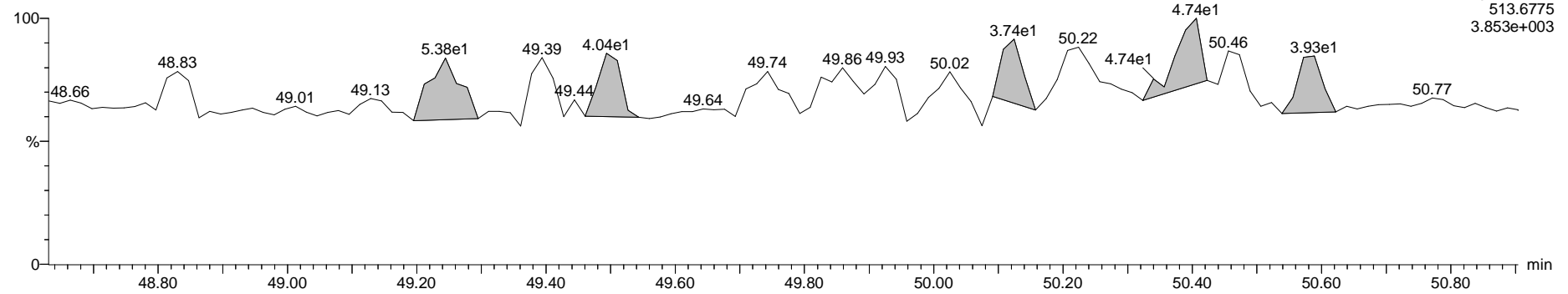


DX9M_083S23 Smooth(SG,1x2)



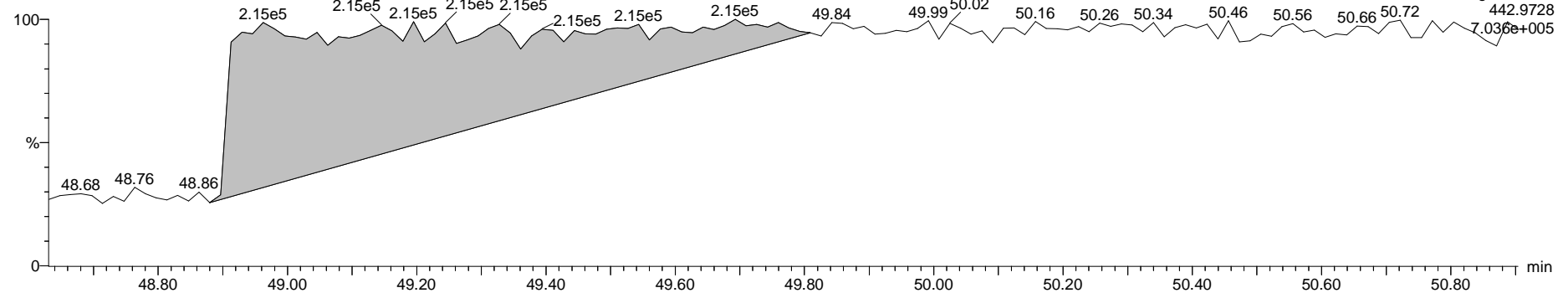
Deca DPE

DX9M_083S23 Smooth(SG,1x2)



Octa Lock

DX9M_083S23



Run #10 Filename DB93_149C S: 5 I: 1 Acquired: 13-JUL-09 20:06:47 Processed: 15-JUL-09 14:03:43
 Run: db93_149c> Analyte: 1613B-db-s4 Cal: db93_146d> Results: db93_149c> Version: V3.6 6--JAN-2000 17:51:42
 Sample text: L12912-9,, Comments: 1,WG29271,2.0/20uL
 sample size: 10.040000 conc units: pg/g total toxicity: 0.10 F1: 1.0000 F2: 1.0000

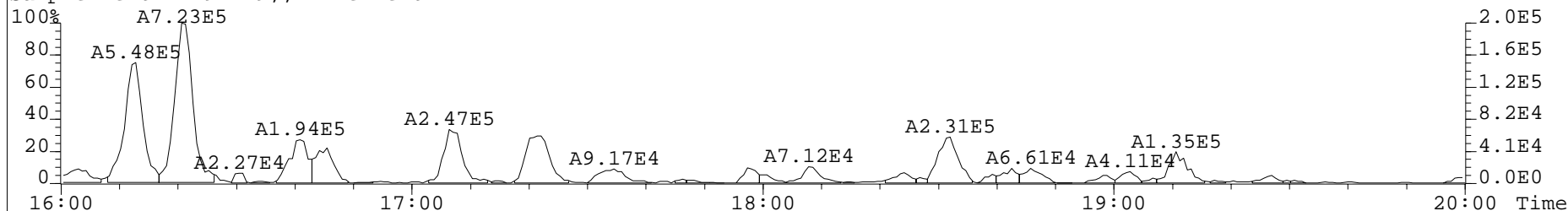
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?	
1 Unk	2,3,7,8-TCDF	1	4.62e+05	1.00	n	18:31	0.978	0	0.0891	-	Y
2 IS/RT	13C-2,3,7,8-TCDF	1	1.20e+08	0.78	y	18:31	146.696	-	0.0047	73.6	n
3 RS	13C-1,2,3,4-TCDD	1	1.12e+08	0.78	y	17:24	16.935	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd		*	-	-	-	n
5 Tot	Tetra Lock	-	-		-		-	-	-	-	n

SUD BRA
22-Jul-09

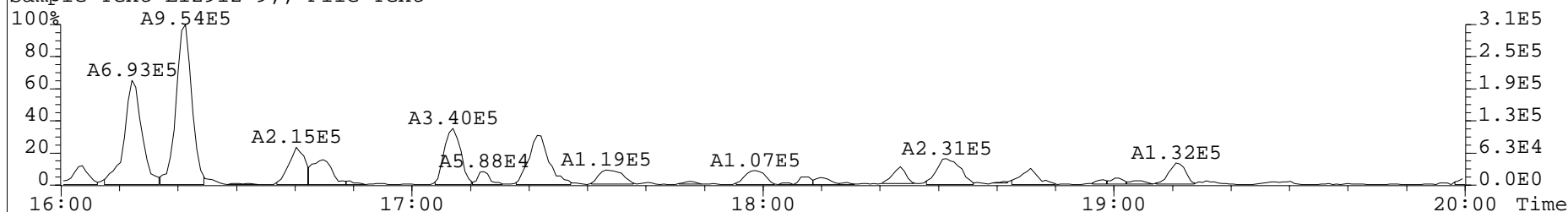
PV BY TLL
15-July
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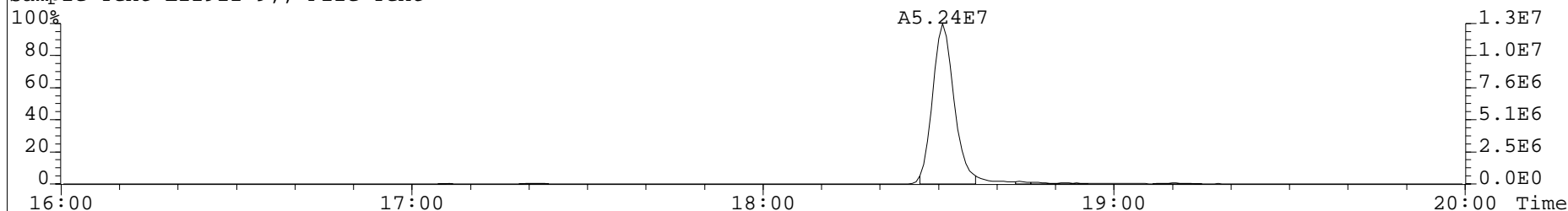
File:DB93_149C #1-918 Acq:13-JUL-2009 20:06:47 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:5 SMO(1,3) BSUB(256,15,-3.0) Exp:DX-DB225-1_03 Noise:306
Sample Text:L12912-9,, File Text:



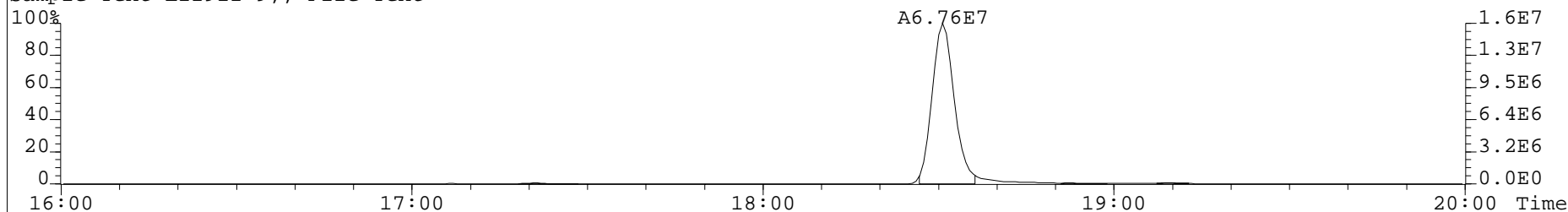
File:DB93_149C #1-918 Acq:13-JUL-2009 20:06:47 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:5 SMO(1,3) BSUB(256,15,-3.0) Exp:DX-DB225-1_03 Noise:698
Sample Text:L12912-9,, File Text:

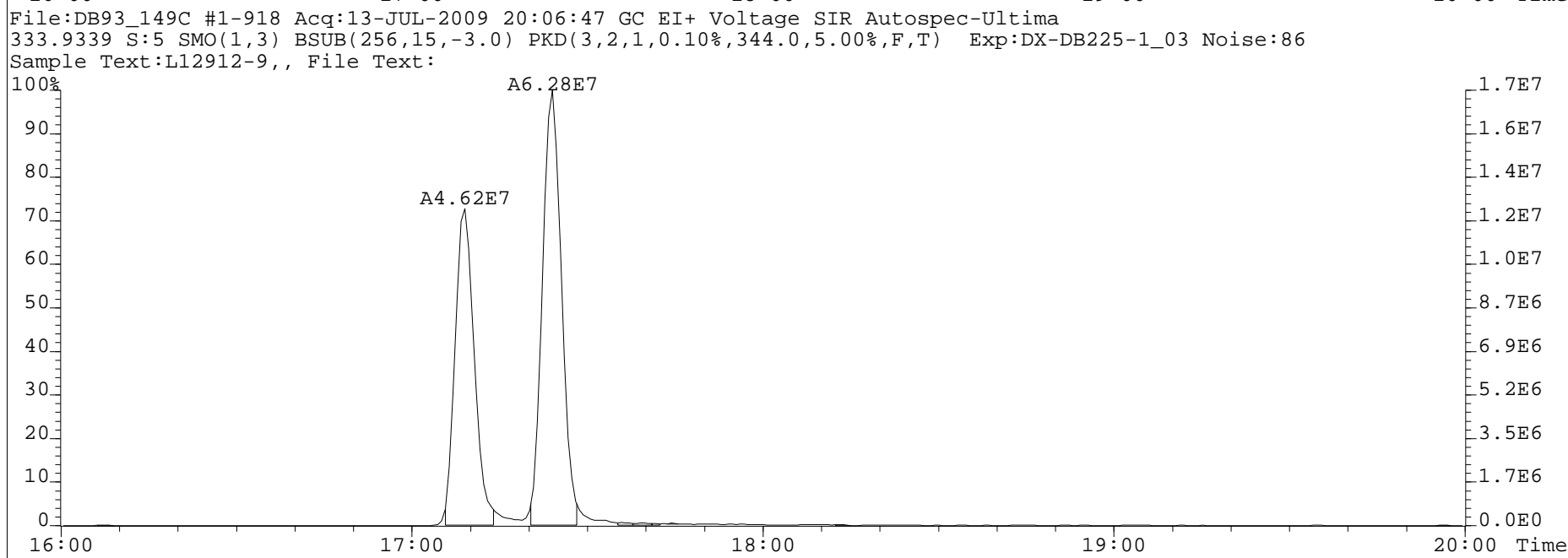
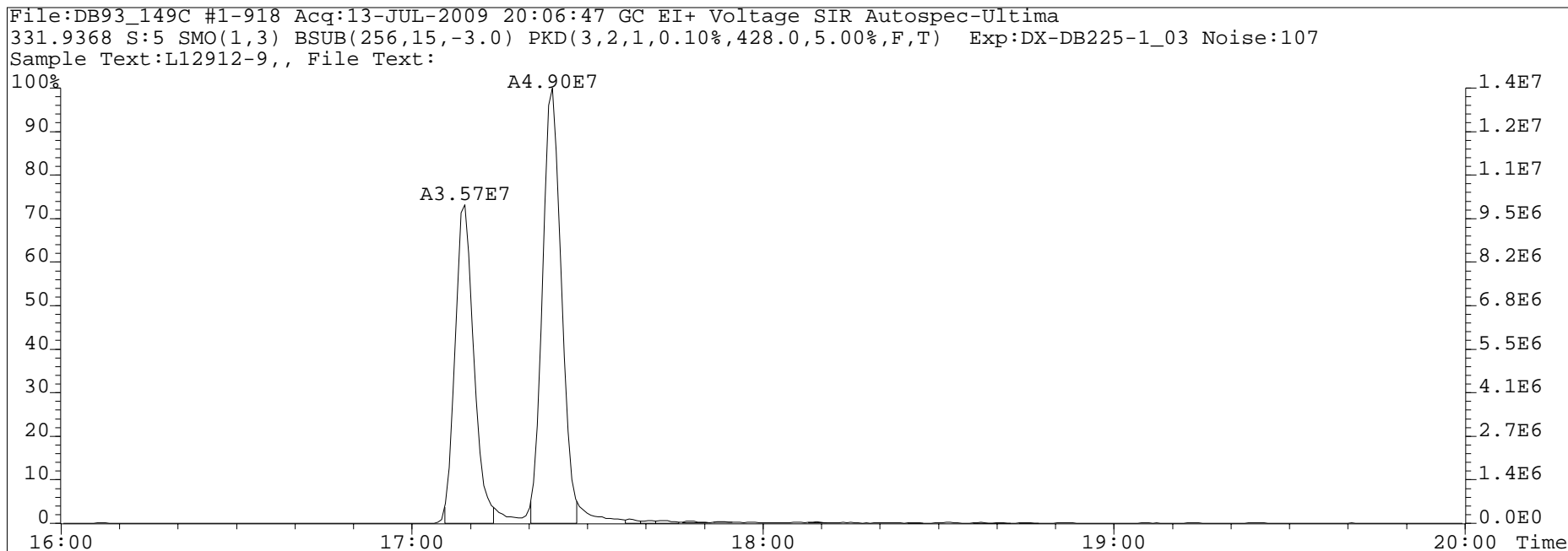


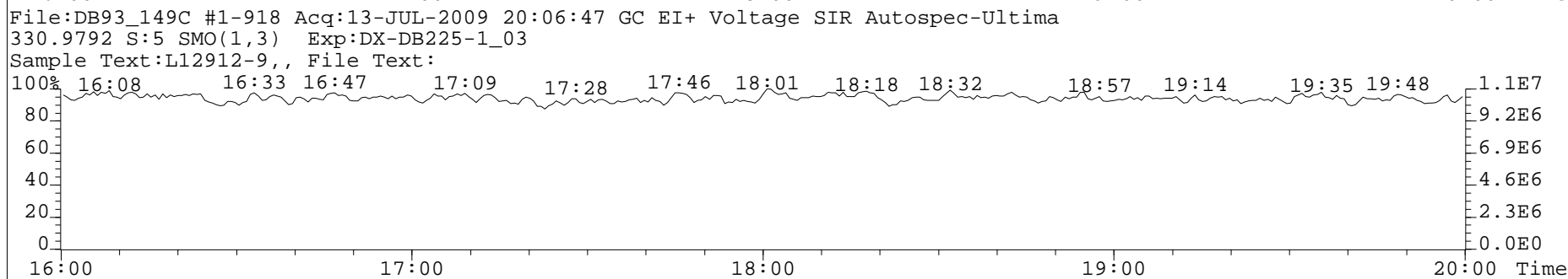
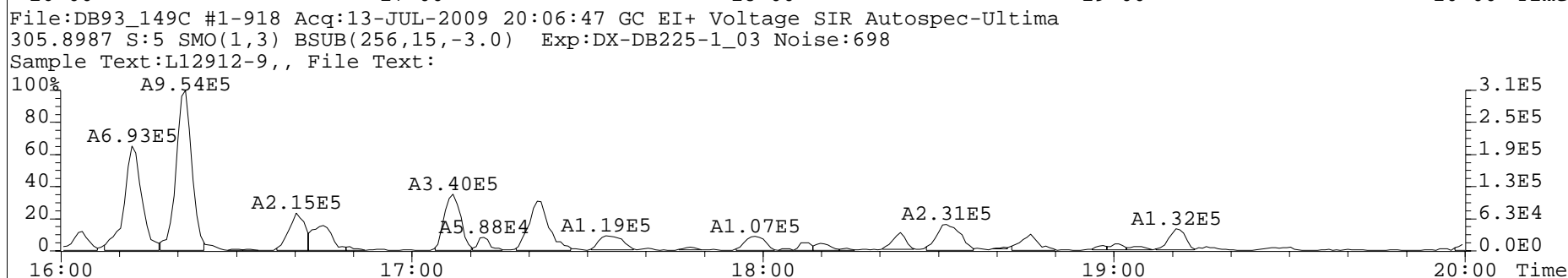
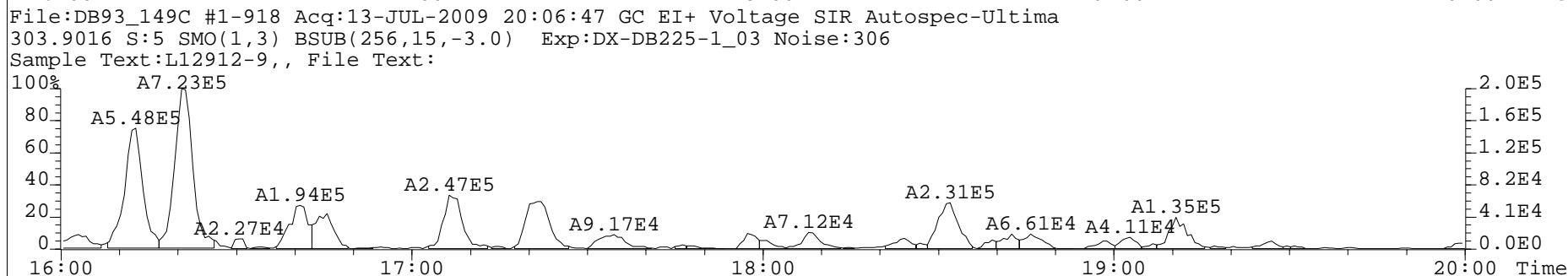
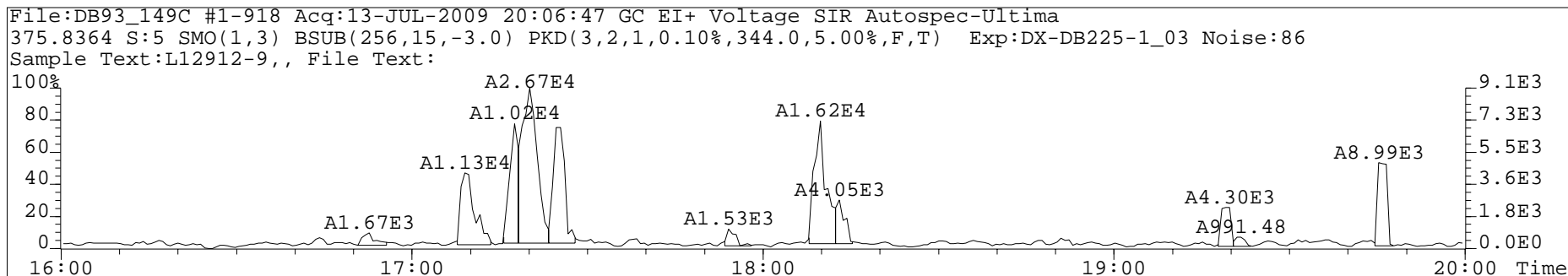
File:DB93_149C #1-918 Acq:13-JUL-2009 20:06:47 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.10%,220.0,5.00%,F,T) Exp:DX-DB225-1_03 Noise:55
Sample Text:L12912-9,, File Text:



File:DB93_149C #1-918 Acq:13-JUL-2009 20:06:47 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.10%,208.0,5.00%,F,T) Exp:DX-DB225-1_03 Noise:52
Sample Text:L12912-9,, File Text:







Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fails?	RT	pg/g	DL	%Rec	Noise:1	Noise:2
1	2,3,7,8-TCDF	10.110	1.65e4	0.73	NO	25.26	2.249	0.0343		7.80e2	3.70e2
2	1,2,3,7,8-PeCDF	10.110	4.63e3	1.35	NO	33.59	0.790	0.0528		3.97e2	7.55e2
3	2,3,4,7,8-PeCDF	10.110	1.11e4	1.46	NO	35.33	1.937	0.0453		3.97e2	7.55e2
4	1,2,3,4,7,8-HxCDF	10.110	3.01e4	1.18	NO	40.71	6.216	0.0575		7.69e2	8.34e2
5	1,2,3,6,7,8-HxCDF	10.110	1.48e4	1.18	NO	40.87	2.874	0.0549		7.69e2	8.34e2
6	2,3,4,6,7,8-HxCDF	10.110	1.30e4	1.23	NO	41.81	2.909	0.0608		7.69e2	8.34e2
7	1,2,3,7,8,9-HxCDF	10.110	1.23e3	1.40 1.47 ^{0.72}	YES	42.84	0.325	0.0742		7.69e2	8.34e2
8	1,2,3,4,6,7,8-HpCDF	10.110	5.88e5	1.02	NO	45.27	148.277	0.1125		1.11e3	1.62e3
9	1,2,3,4,7,8,9-HpCDF	10.110	2.90e4	1.01	NO	47.05	8.786	0.1333		1.11e3	1.62e3
10	OCDF	10.110	2.00e6	0.87	NO	50.29	621.149	0.1039		6.58e2	1.36e3
11	2,3,7,8-TCDD	10.110	3.66e3	0.79	NO	26.46	0.543	0.0296		4.10e2	4.55e2
12	1,2,3,7,8-PeCDD	10.110	1.21e4	0.65	NO	36.16	2.623	0.0426		4.56e2	4.55e2
13	1,2,3,4,7,8-HxCDD	10.110	1.36e4	1.15	NO	42.09	3.369	0.0701		8.13e2	9.08e2
14	1,2,3,6,7,8-HxCDD	10.110	9.27e4	1.24	NO	42.22	22.867	0.0715		8.13e2	9.08e2
15	1,2,3,7,8,9-HxCDD	10.110	3.86e4	1.23	NO	42.65	9.735	0.0722		8.13e2	9.08e2
16	1,2,3,4,6,7,8-HpCDD	10.110	1.75e6	0.99	NO	46.65	449.089	0.1183		1.43e3	1.46e3
17	OCDD	10.110	1.09e7	0.87	NO	50.21	3134.718	0.0636		7.23e2	6.10e2
18	13C-2,3,7,8-TCDF	10.110	1.90e6	0.77	NO	25.22	162.236	0.0917	82.0	3.51e3	1.28e3
19	13C-1,2,3,7,8-PeCDF	10.110	1.39e6	1.53	NO	33.55	169.810	0.1166	85.8	1.77e3	2.49e3
20	13C-2,3,4,7,8-PeCDF	10.110	1.34e6	1.53	NO	35.31	168.023	0.1198	84.9	1.77e3	2.49e3
21	13C-1,2,3,4,7,8-HxCDF	10.110	9.98e5	0.51	NO	40.67	158.403	0.1460	80.1	2.79e3	2.62e3
22	13C-1,2,3,6,7,8-HxCDF	10.110	1.12e6	0.51	NO	40.85	152.420	0.1255	77.0	2.79e3	2.62e3
23	13C-2,3,4,6,7,8-HxCDF	10.110	1.02e6	0.51	NO	41.79	151.620	0.1368	76.6	2.79e3	2.62e3
24	13C-1,2,3,7,8,9-HxCDF	10.110	9.29e5	0.52	NO	42.83	148.006	0.1466	74.8	2.79e3	2.62e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.110	7.43e5	0.44	NO	45.25	147.234	0.1683	74.4	3.04e3	1.95e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.110	6.83e5	0.44	NO	47.03	146.917	0.1828	74.3	3.04e3	1.95e3
27	13C-2,3,7,8-TCDD	10.110	1.49e6	0.76	NO	26.45	165.058	0.1550	83.4	2.78e3	3.44e3
28	13C-1,2,3,7,8-PeCDD	10.110	1.04e6	0.62	NO	36.12	178.152	0.1401	90.1	1.96e3	1.69e3
29	13C-1,2,3,4,7,8-HxCDD	10.110	9.77e5	1.24	NO	42.07	162.187	0.1190	82.0	2.21e3	2.00e3
30	13C-1,2,3,6,7,8-HxCDD	10.110	1.06e6	1.23	NO	42.20	150.213	0.1019	75.9	2.21e3	2.00e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.110	8.02e5	1.02	NO	46.63	151.838	0.1486	76.8	2.10e3	2.51e3
32	13C-OCDD	10.110	1.49e6	0.87	NO	50.19	247.748	0.1119	62.6	1.06e3	2.88e3
33	13C-1,2,3,4-TCDD	10.110	1.63e6	0.78	NO	26.12	9.129	0.0078	4.6	2.78e3	3.44e3
34	13C-1,2,3,7,8,9-HxCDD	10.110	1.22e6	1.24	NO	42.63	10.742	0.0063	5.4	2.21e3	2.00e3
35	37Cl-2,3,7,8-TCDD	10.110	1.77e5			26.48	20.565	0.0480	104.0		1.84e3
36	Total Tetra-Furans	10.110				19.953	20.162	0.0343	0.0495		3.70e2
37	Total Tetra-Dioxins	10.110				33.702	36.255	0.0296			4.55e2
38	Total Penta-Furans	10.110				36.378	36.992	0.0495	0.0528		7.55e2
39	Total Penta-Dioxins	10.110				38.846	40.220	0.0426	0.0495		4.55e2
40	Total Hexa-Furans	10.110				146.094	147.027	0.0566	0.0742		8.34e2
41	Total Hexa-Dioxins	10.110					180.165	0.0631	0.0722		9.08e2
42	Total Hepta-Furans	10.110					535.532	0.1165	0.1333		1.62e3
43	Total Hepta-Dioxins	10.110					844.155	0.1183			1.46e3
44	Hexa DPE	1.000	9.93e2			25.87					5.76e2
45	Hepta DPE	1.000	5.31e2			33.77					9.10e2
46	Octa DPE	1.000	1.08e2			41.07					1.27e3
47	Nona DPE	1.000	5.79e2			46.60					1.62e3
48	Deca DPE	1.000	1.41e2			50.14					1.07e3
49	Tetra Lock	1.000	1.29e4			26.02					1.25e5
50	Penta Lock	1.000	3.71e5			30.13					7.51e4
51	Hexa Lock	1.000	1.11e5			39.04					1.66e5
52	Hepta Lock	1.000	6.71e3			46.50					1.16e5
53	Octa Lock	1.000	1.45e5			49.48					5.27e4

PV WL 15-JUL-2009
 SU'd 824 22-Jul-09



Dataset: G:\Masslynx\Inst_MI\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	1 st Ratio (A)	Fails?	pg
1	24.13	0.756	NO	1.136
2	23.84	0.703	NO	1.460
3	23.69	0.744	NO	0.418
4	23.32	0.739	NO	2.504
5	22.98	0.733	NO	2.260
6	22.53	0.805	NO	2.278
7	22.23	0.768	NO	2.839
8	21.92	0.723	NO	0.703
9	21.39	0.749	NO	0.673
10	28.16	0.556	YES	0.090
11	26.55	1.008	YES	0.109
12	26.26	0.784	NO	0.370
13	25.93	0.833	NO	0.684
14	25.26	0.734	NO	2.249
15	24.93	0.727	NO	0.503
16	24.58	0.829	NO	1.060
17	24.27	0.787	NO	0.816

cg

Tetradioxins

	RT	1 st Ratio (A)	Fails?	pg
1	23.74	0.775	NO	1.398
2	23.36	0.783	NO	9.512
3	22.93	0.773	NO	12.452
4	28.30	1.428	YES	0.053
5	27.50	0.754	NO	0.140
6	27.09	0.966	YES	0.492
7	26.74	1.138	YES	0.146
8	26.46	0.791	NO	0.543
9	26.30	0.728	NO	2.153
10	26.15	0.794	NO	2.800
11	25.62	0.673	NO	0.571
12	25.21	1.490	YES	1.865
13	25.07	0.841	NO	0.584
14	24.89	0.880	NO	0.263
15	24.68	0.728	NO	3.286

cg

Pentafurans

	RT	1 st Ratio (A)	Fails?	pg
1	31.53	1.515	NO	8.574
2	31.15	2.135	YES	0.299
3	28.90	1.525	NO	17.954
4	37.14	1.446	NO	0.128
5	35.62	1.380	NO	1.720
6	35.33	1.461	NO	1.937
7	35.18	1.074	YES	0.057
8	34.30	1.536	NO	1.340
9	33.95	1.357	NO	0.230
10	33.59	1.350	NO	0.790
11	33.43	1.343	NO	0.625
12	32.90	1.522	NO	3.080
13	32.32	7.138	YES	0.198

cg

PV WL 15-JUL-2009

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Pentadioxins

	RT	1 st Ratio (A)	Fails?	pg
1	34.91	0.620	NO	0.893
2	34.51	0.642	NO	5.293
3	34.19	0.608	NO	2.682
4	33.88	0.609	NO	6.557
5	33.19	0.676	NO	3.520
6	32.03	0.607	NO	12.575
7	37.05	0.707	YES	0.565
8	36.47	0.471	YES	0.654
9	36.16	0.653	NO	2.623
10	35.74	0.879	YES	0.253
11	35.53	0.583	NO	2.362
12	35.07	0.653	NO	2.341

Hexafurans

	RT	1 st Ratio (A)	Fails?	pg
1	42.97	1.150	NO	0.877
2	42.84	1.471	YES	0.325
3	41.81	1.234	NO	2.909
4	41.64	1.172	NO	3.477
5	41.30	1.110	NO	0.623
6	41.07	1.575	YES	0.114
7	40.87	1.184	NO	2.874
8	40.71	1.180	NO	6.216
9	40.05	1.219	NO	71.780
10	39.75	1.331	NO	3.213
11	39.49	2.103	YES	0.493
12	39.24	1.203	NO	41.530
13	38.98	1.235	NO	12.595

Hexadioxins

	RT	1 st Ratio (A)	Fails?	pg
1	41.40	1.355	NO	2.282
2	41.20	1.218	NO	49.062
3	40.82	1.354	NO	14.176
4	40.01	1.207	NO	78.674
5	42.65	1.232	NO	9.735
6	42.22	1.244	NO	22.867
7	42.09	1.147	NO	3.369

Heptafurans

	RT	1 st Ratio (A)	Fails?	pg
1	45.79	0.997	NO	372.905
2	45.59	1.061	NO	5.564
3	45.27	1.016	NO	148.277
4	47.05	1.012	NO	8.786

PV WL 15-JUL-2009

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Heptadioxins

	RT	% Ratio (A:	Fails?	pg
1	46.65	0.990	NO	449.089
2	45.74	1.004	NO	395.066

g



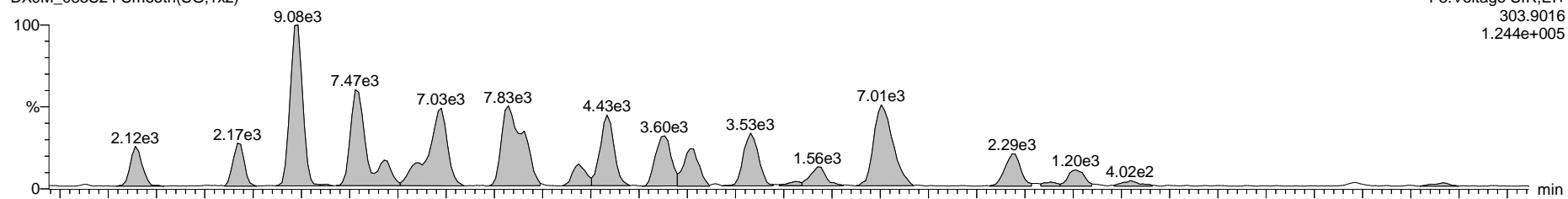
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Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

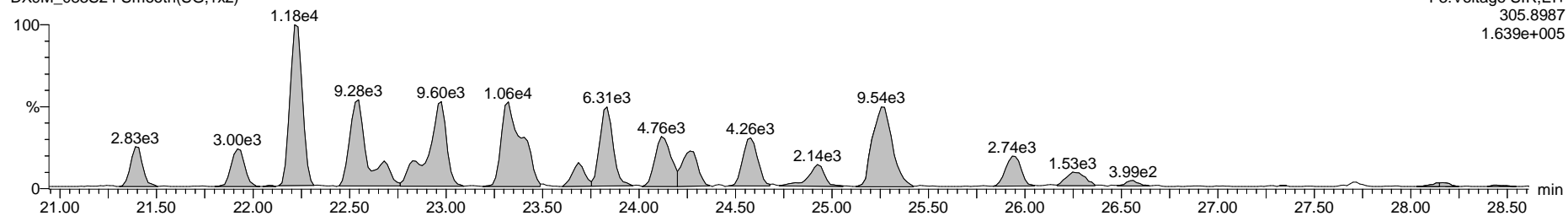
Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S24 Smooth(SG,1x2)

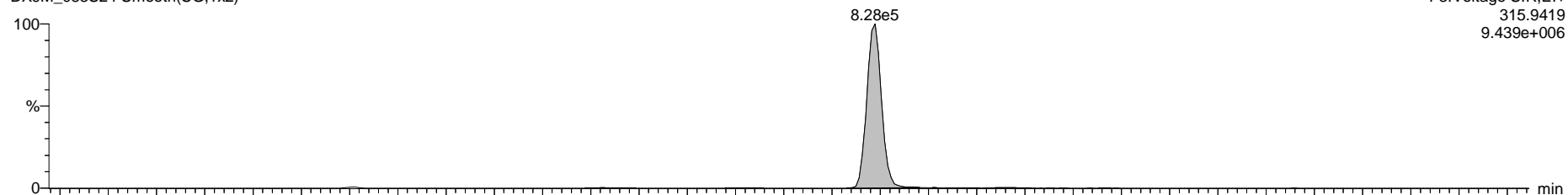


DX9M_083S24 Smooth(SG,1x2)

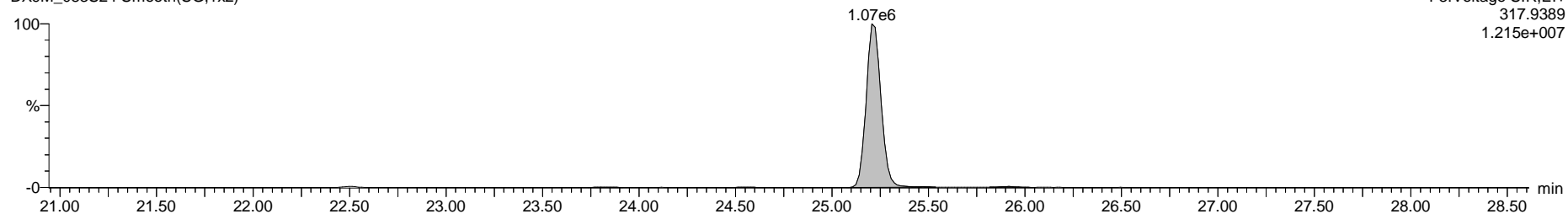


13C-2,3,7,8-TCDF

DX9M_083S24 Smooth(SG,1x2)



DX9M_083S24 Smooth(SG,1x2)



PV WL 15-JUL-2009

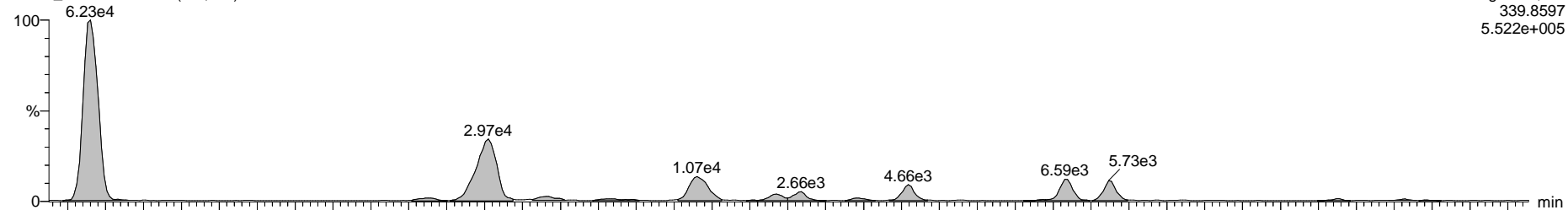


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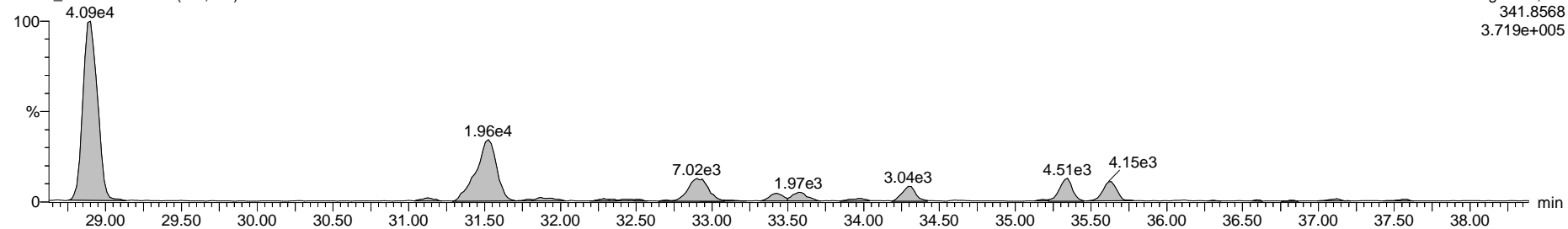
Total Penta-Furans

DX9M_083S24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
5.522e+005

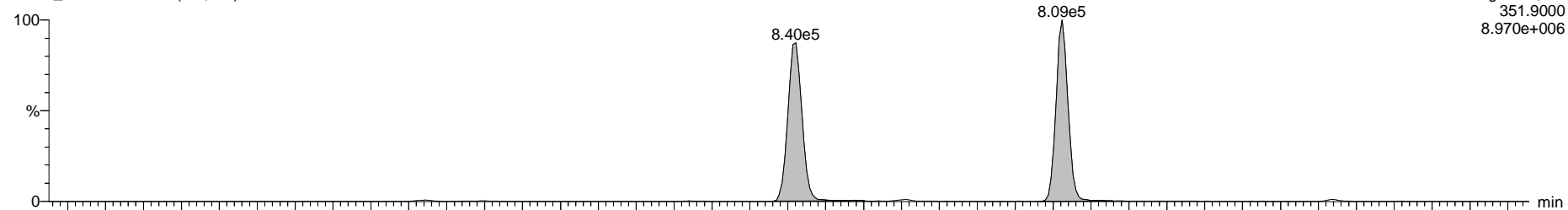
DX9M_083S24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
3.719e+005

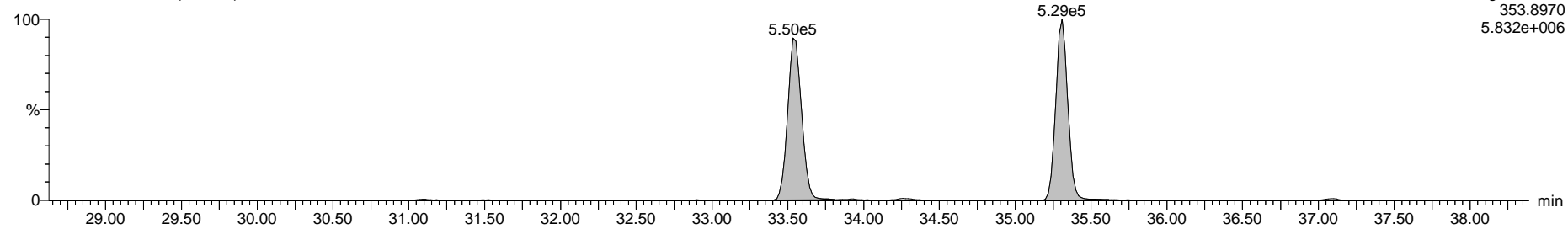
13C-1,2,3,7,8-PeCDF

DX9M_083S24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
8.970e+006

DX9M_083S24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8970
5.832e+006

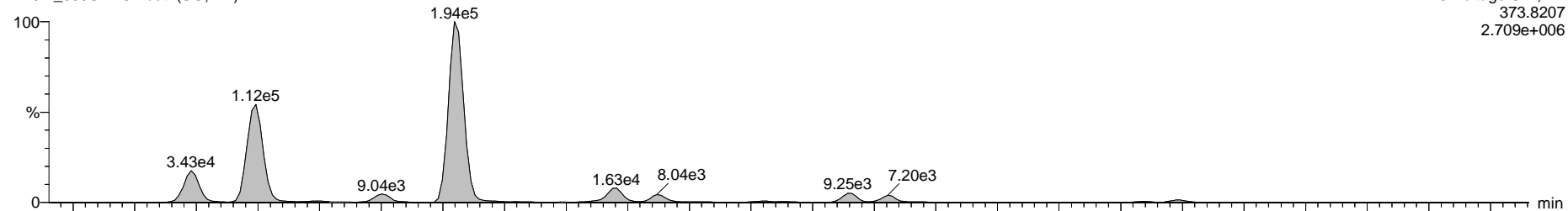


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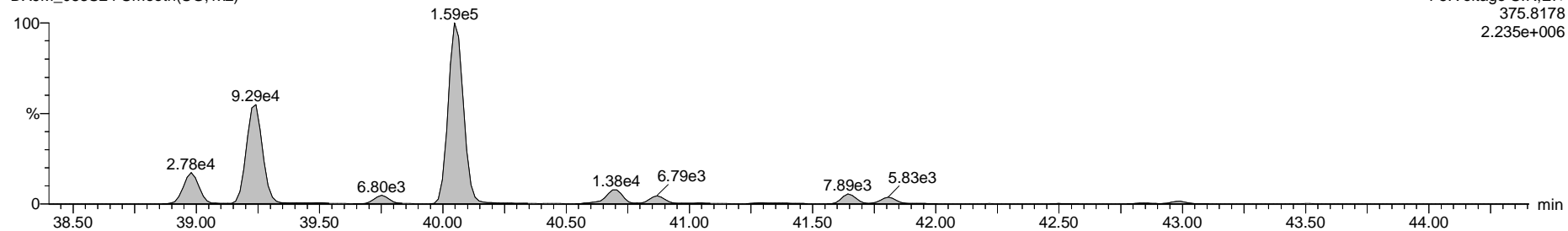
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Total Hexa-Furans

DX9M_083S24 Smooth(SG,1x2)

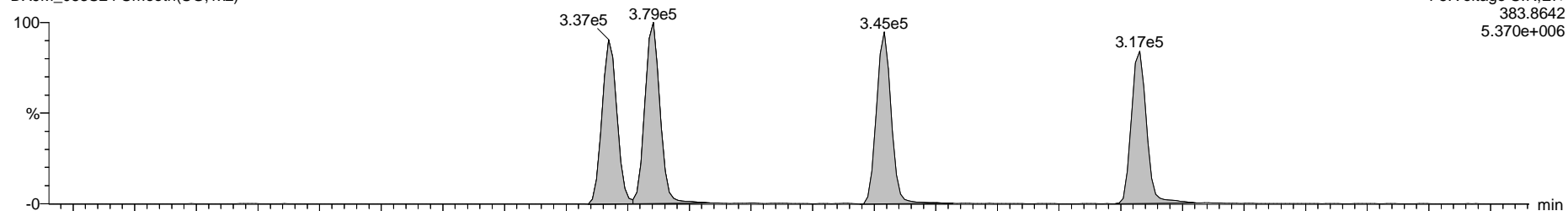


DX9M_083S24 Smooth(SG,1x2)

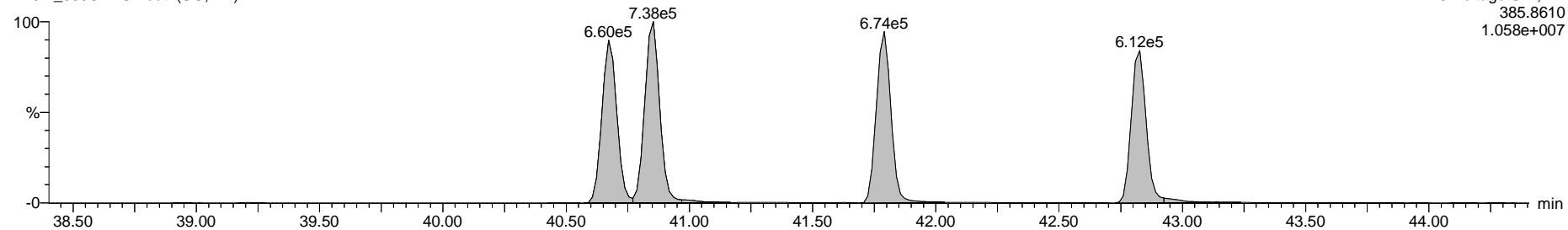


13C-1,2,3,4,7,8-HxCDF

DX9M_083S24 Smooth(SG,1x2)



DX9M_083S24 Smooth(SG,1x2)

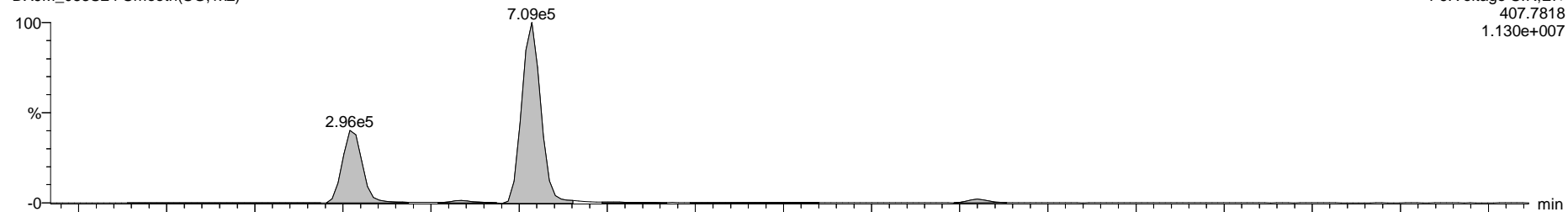


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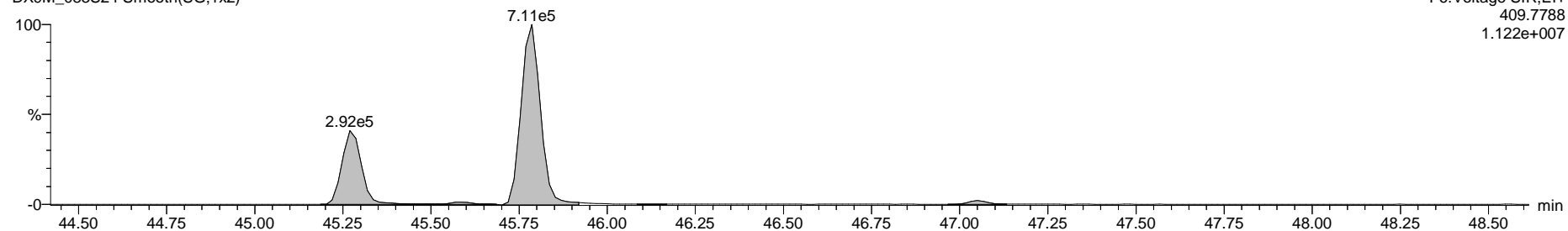
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Total Hepta-Furans

DX9M_083S24 Smooth(SG,1x2)

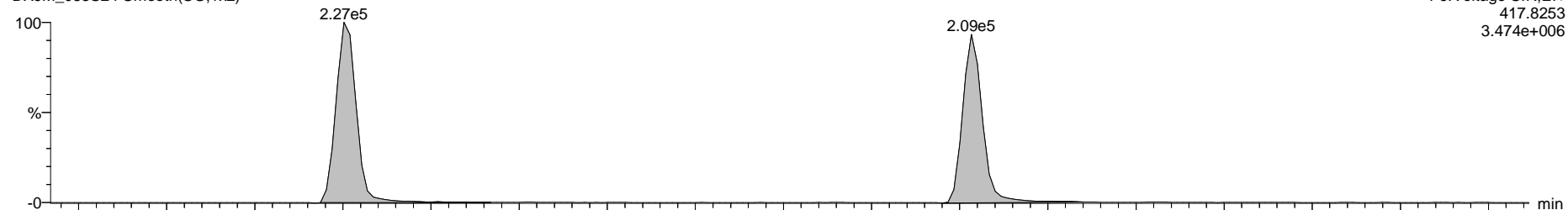


DX9M_083S24 Smooth(SG,1x2)

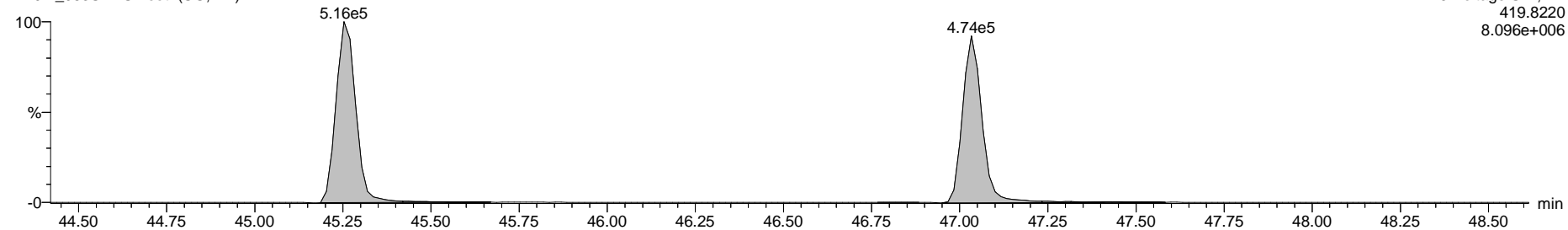


13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S24 Smooth(SG,1x2)



DX9M_083S24 Smooth(SG,1x2)



PV WL 15-JUL-2009

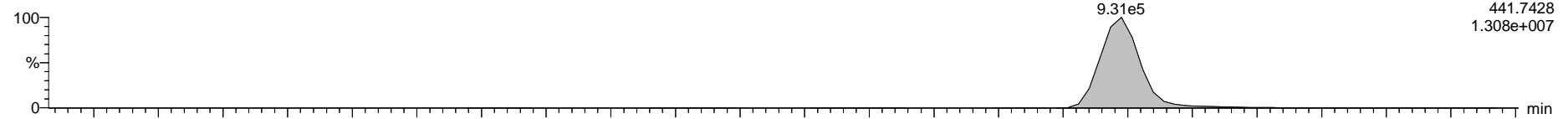


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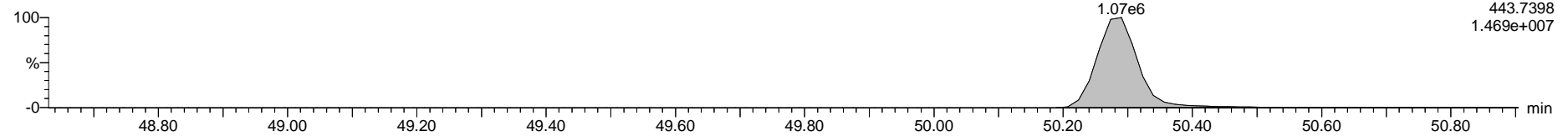
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OCDF

DX9M_083S24 Smooth(SG,1x2)

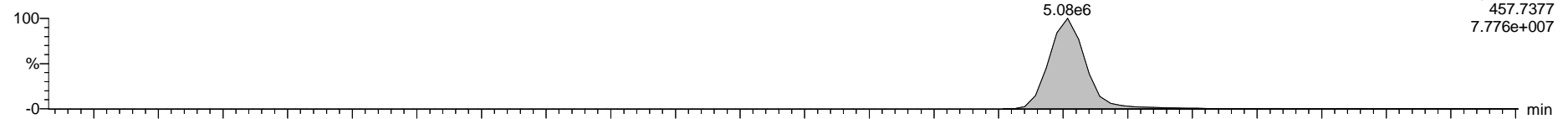


DX9M_083S24 Smooth(SG,1x2)

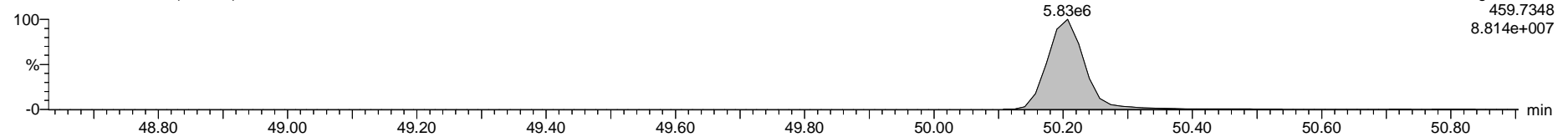


OCDD

DX9M_083S24 Smooth(SG,1x2)

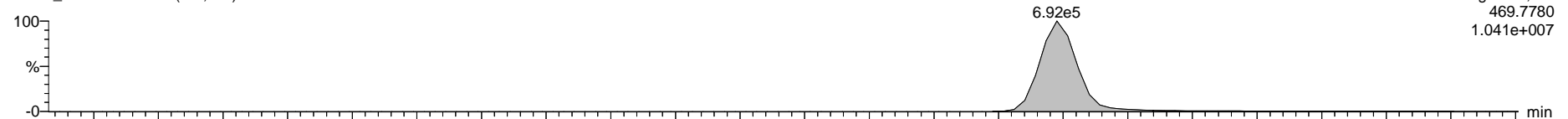


DX9M_083S24 Smooth(SG,1x2)

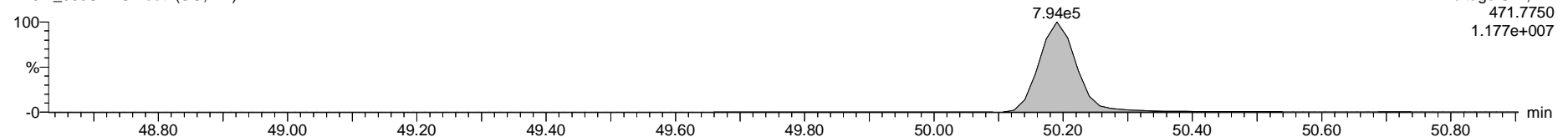


13C-OCDD

DX9M_083S24 Smooth(SG,1x2)



DX9M_083S24 Smooth(SG,1x2)

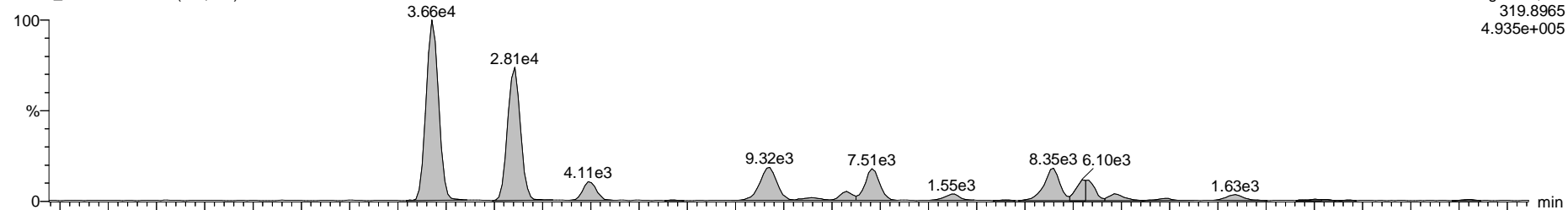


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

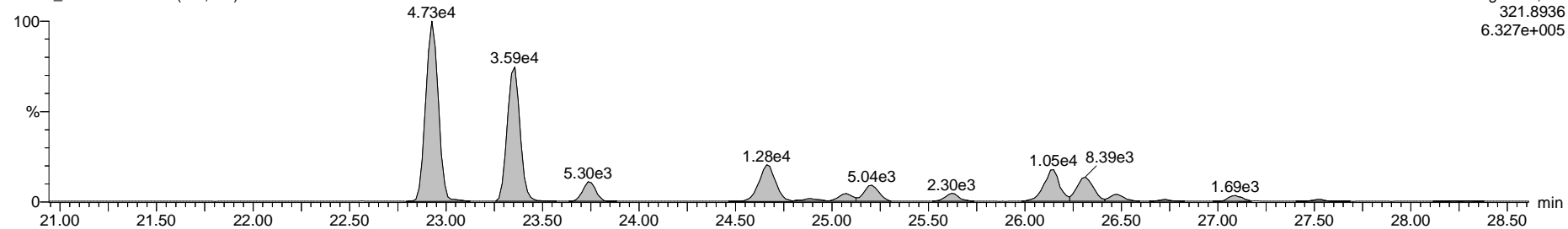
Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_083S24 Smooth(SG,1x2)

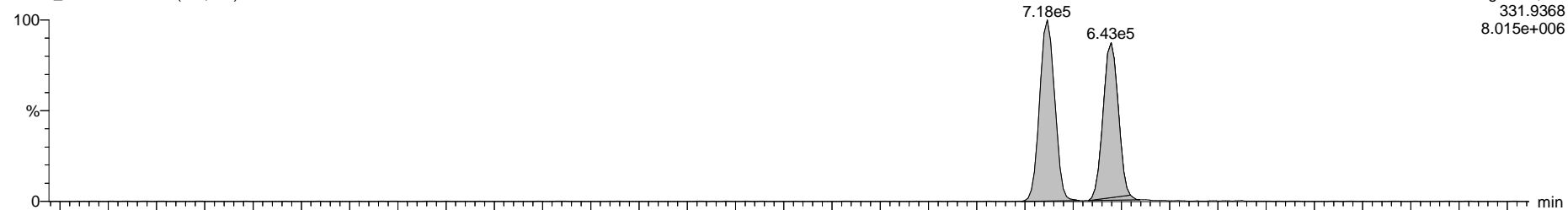


DX9M_083S24 Smooth(SG,1x2)

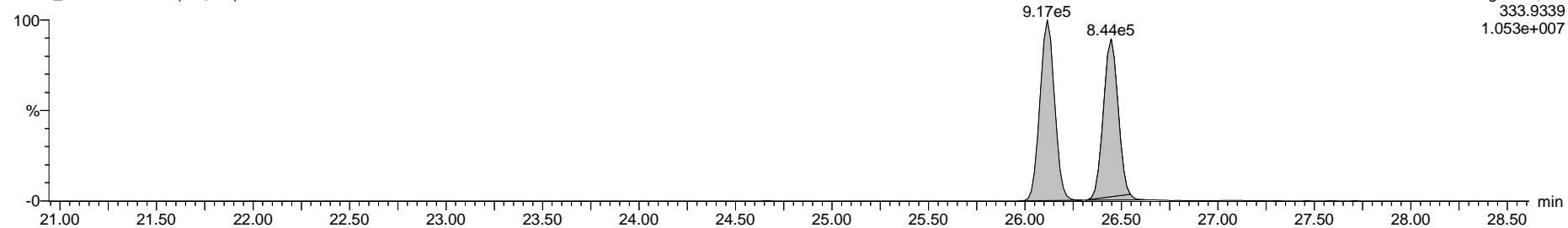


13C-2,3,7,8-TCDD

DX9M_083S24 Smooth(SG,1x2)



DX9M_083S24 Smooth(SG,1x2)

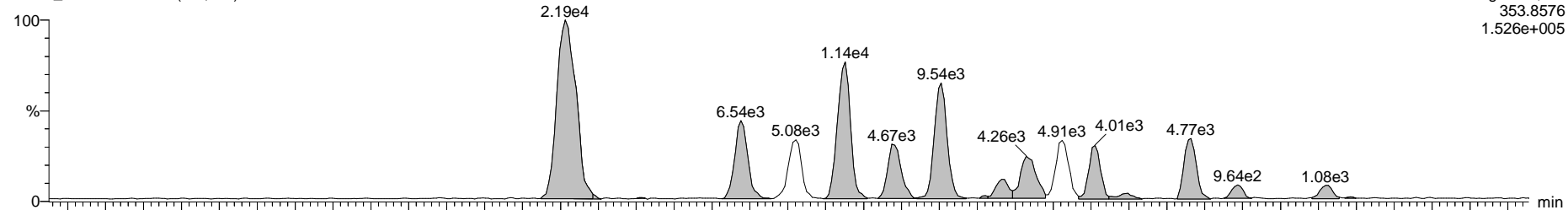


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

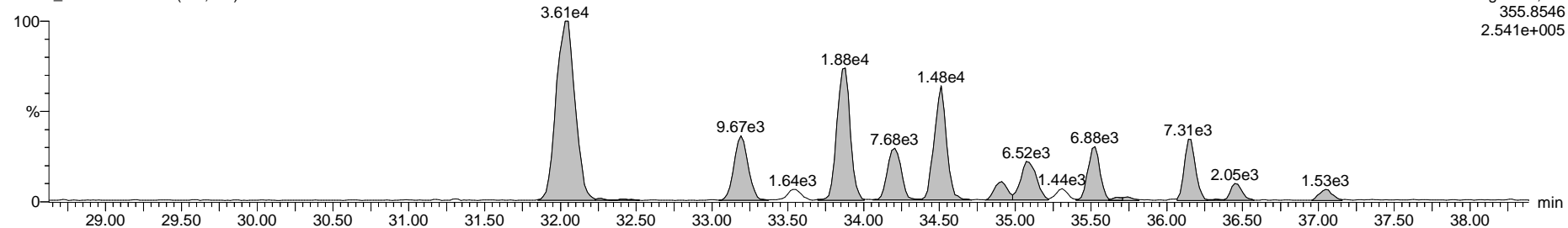
Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Total Penta-Dioxins

DX9M_083S24 Smooth(SG,1x2)

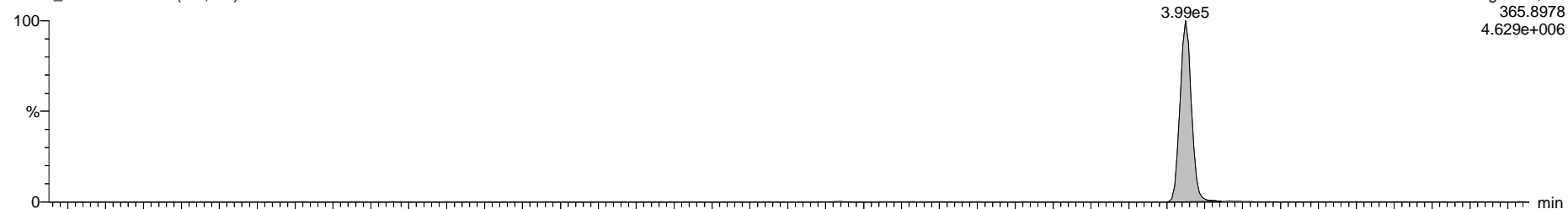


DX9M_083S24 Smooth(SG,1x2)

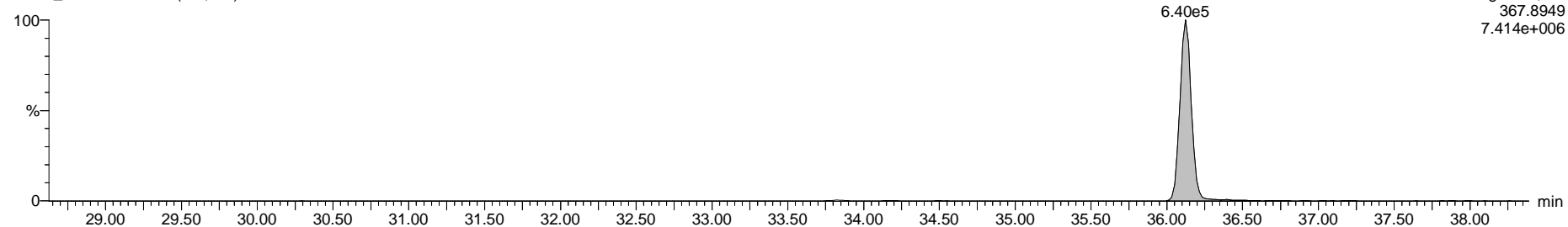


13C-1,2,3,7,8-PeCDD

DX9M_083S24 Smooth(SG,1x2)



DX9M_083S24 Smooth(SG,1x2)

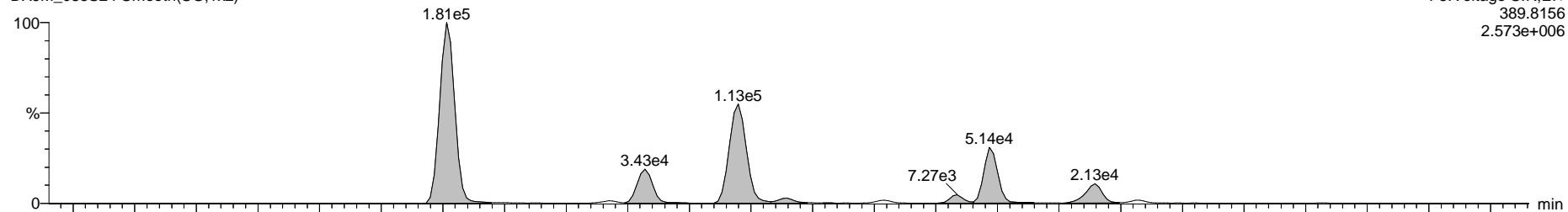


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

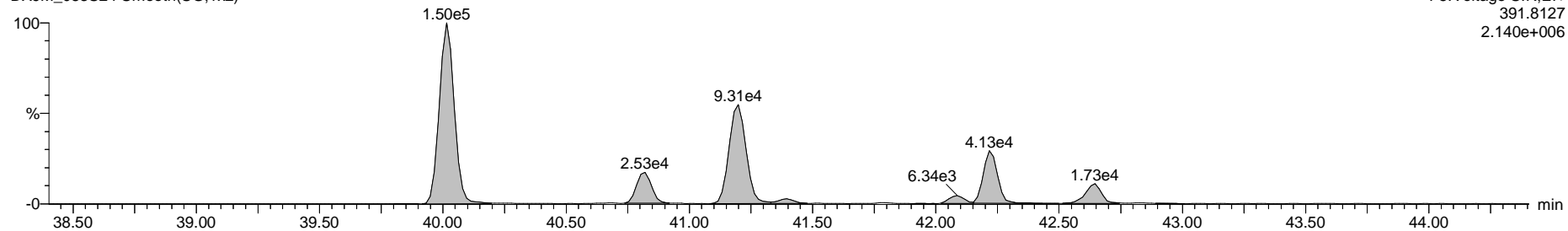
Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S24 Smooth(SG,1x2)

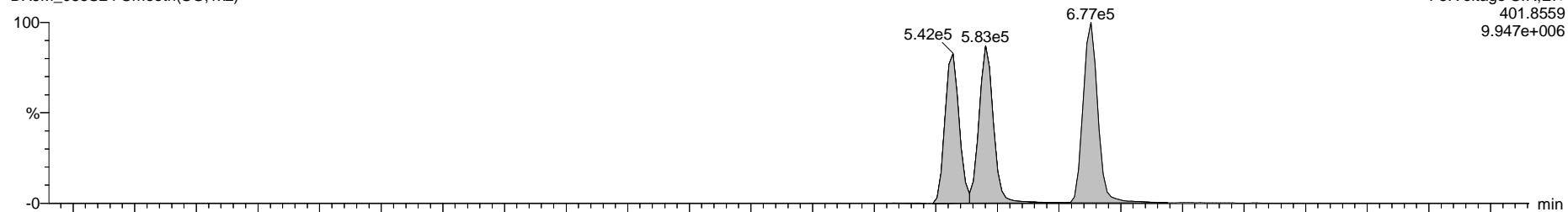


DX9M_083S24 Smooth(SG,1x2)

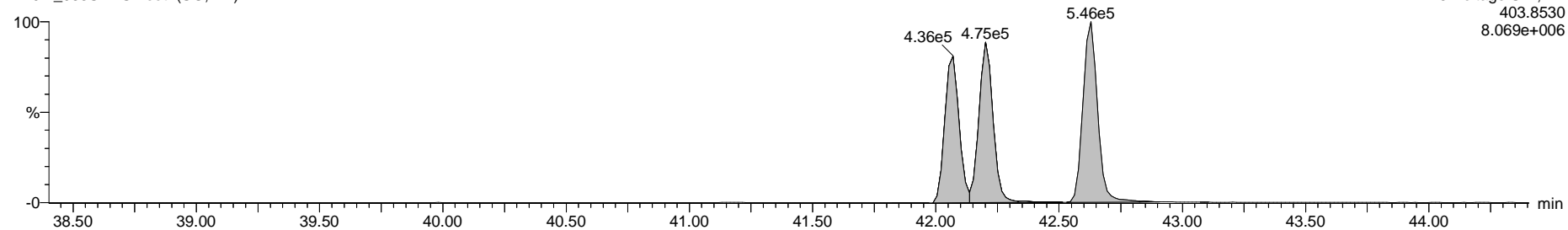


13C-1,2,3,4,7,8-HxCDD

DX9M_083S24 Smooth(SG,1x2)



DX9M_083S24 Smooth(SG,1x2)

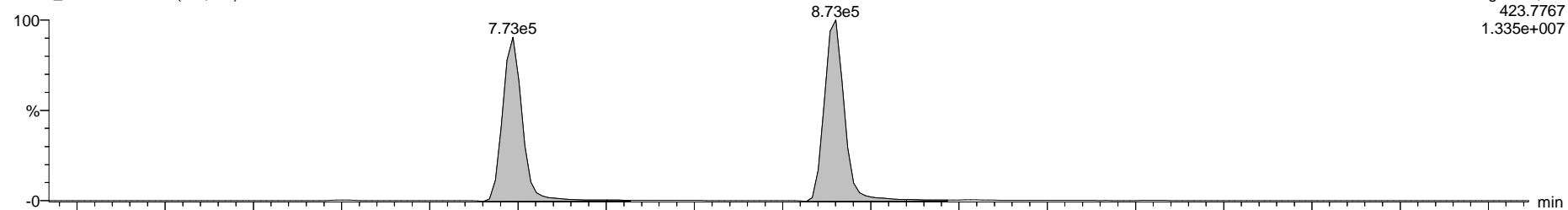


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

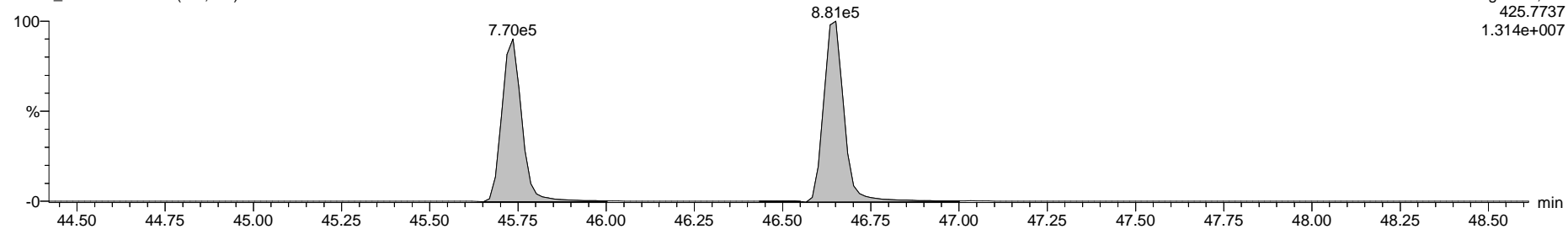
Total Hepta-Dioxins

DX9M_083S24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
1.335e+007

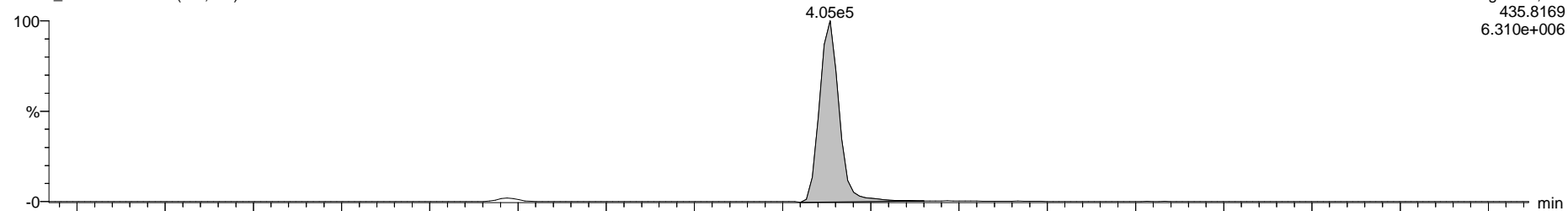
DX9M_083S24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
1.314e+007

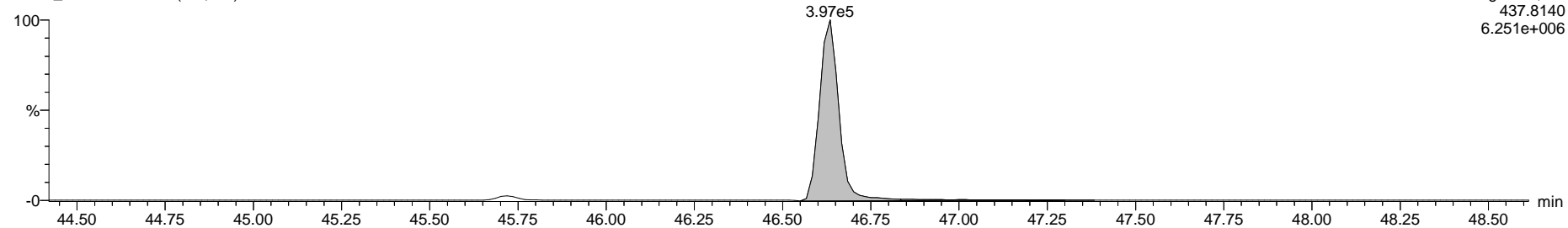
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
6.310e+006

DX9M_083S24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
6.251e+006

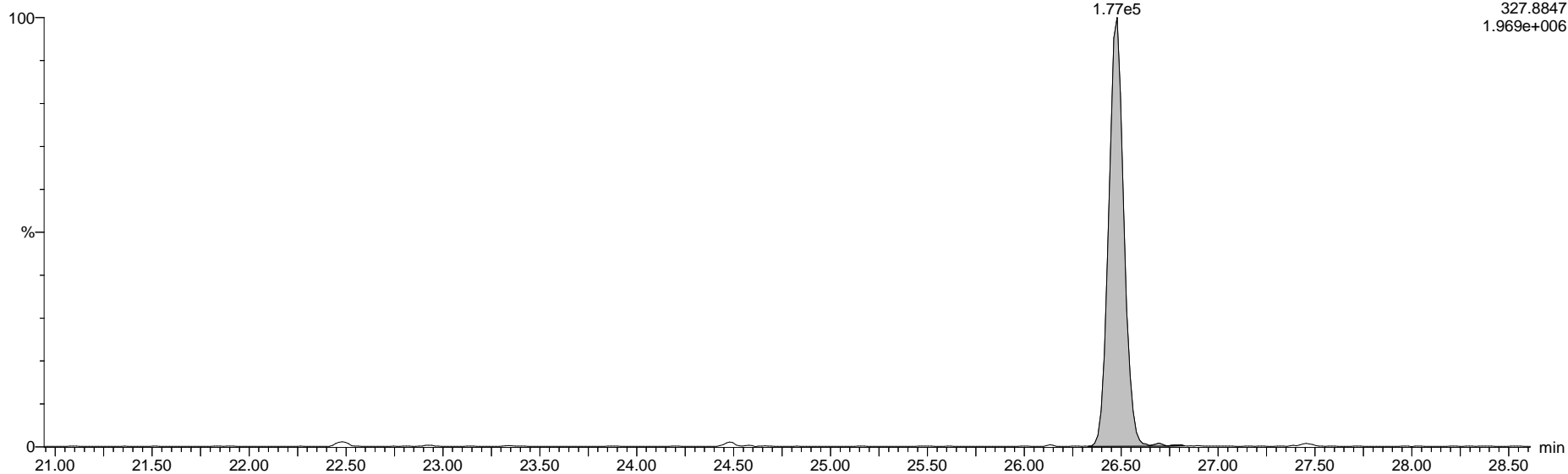


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

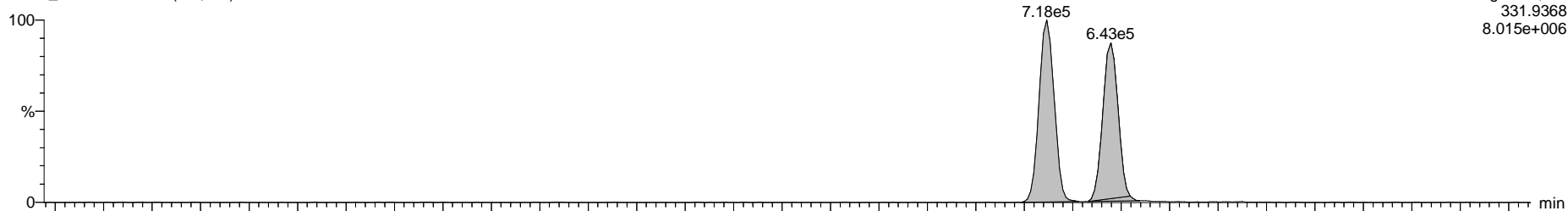
37Cl-2,3,7,8-TCDD

DX9M_083S24 Smooth(SG,1x2)

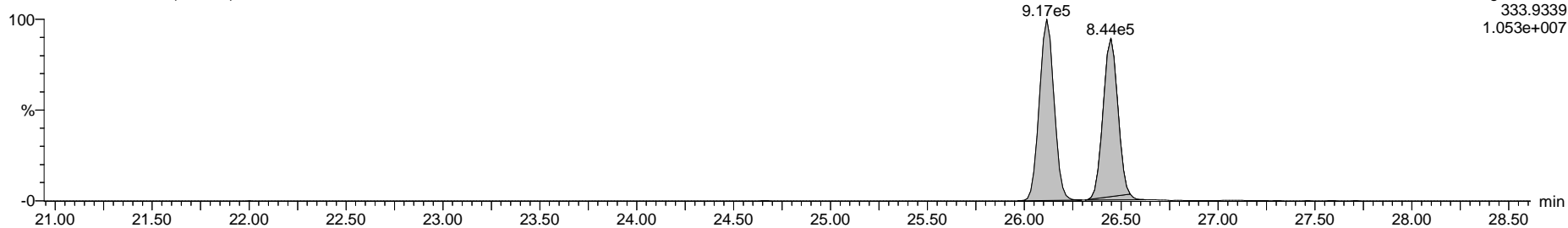


13C-1,2,3,4-TCDD

DX9M_083S24 Smooth(SG,1x2)



DX9M_083S24 Smooth(SG,1x2)



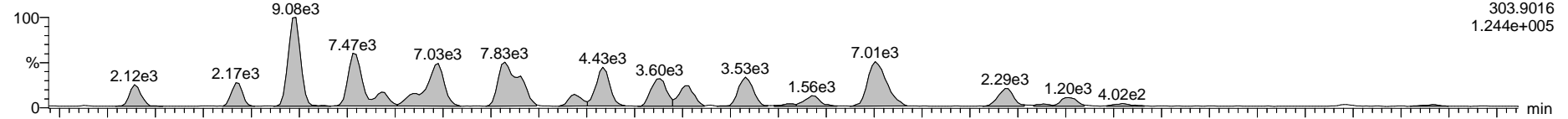
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

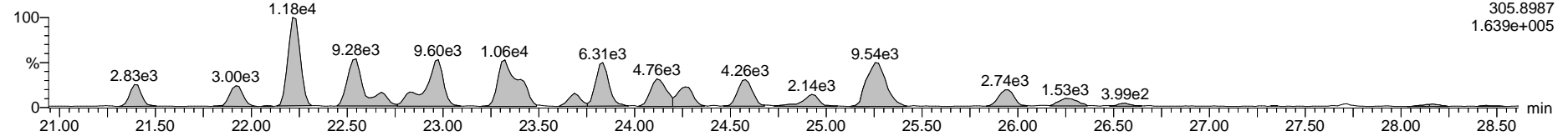
DX9M_083S24 Smooth(SG,1x2)

F3:Voltage SIR,EI+
303.9016
1.244e+005



DX9M_083S24 Smooth(SG,1x2)

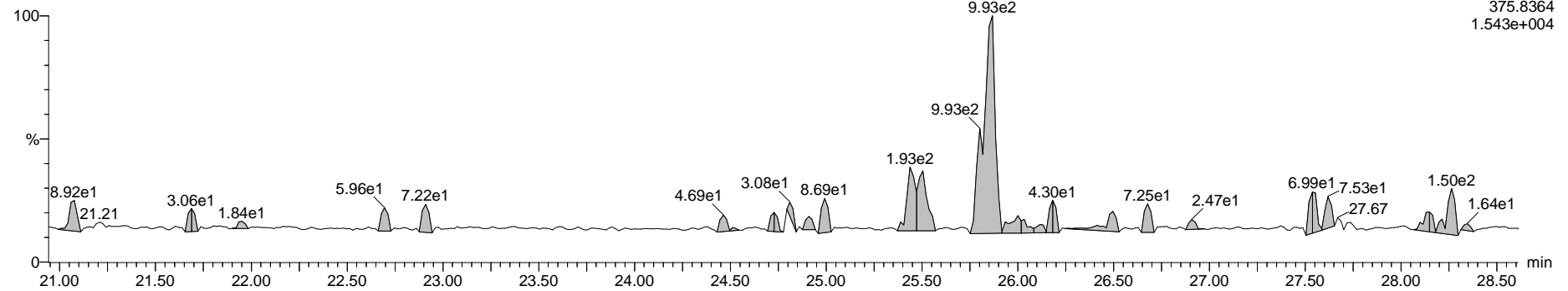
F3:Voltage SIR,EI+
305.8987
1.639e+005



Hexa DPE

DX9M_083S24 Smooth(SG,1x2)

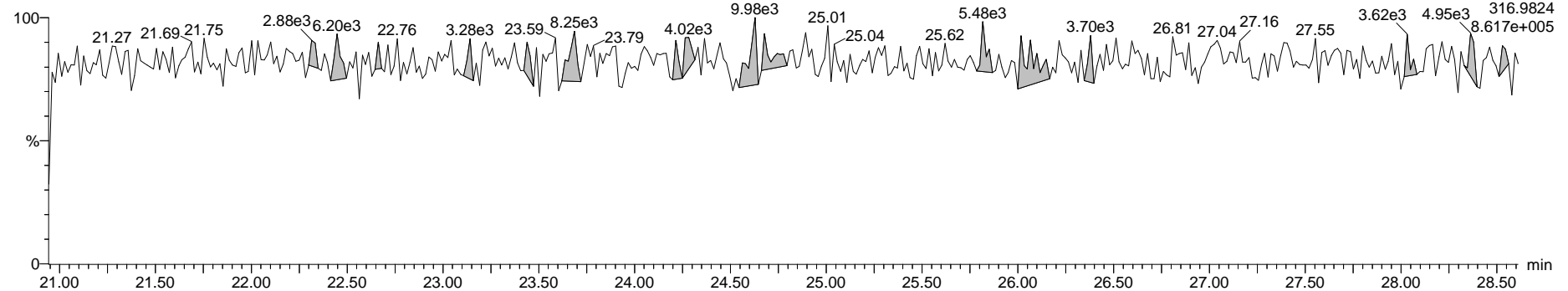
F3:Voltage SIR,EI+
375.8364
1.543e+004



Tetra Lock

DX9M_083S24

F3:Voltage SIR,EI+
316.9824
8.617e+005



PV WL 15-JUL-2009

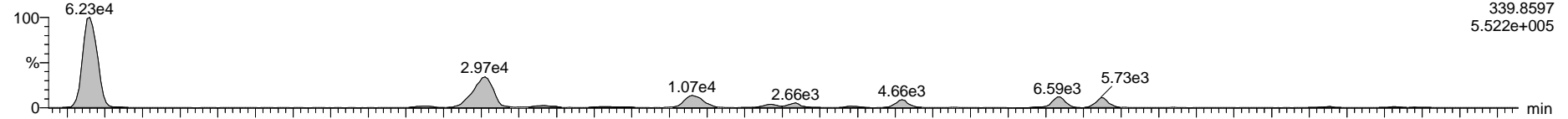


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

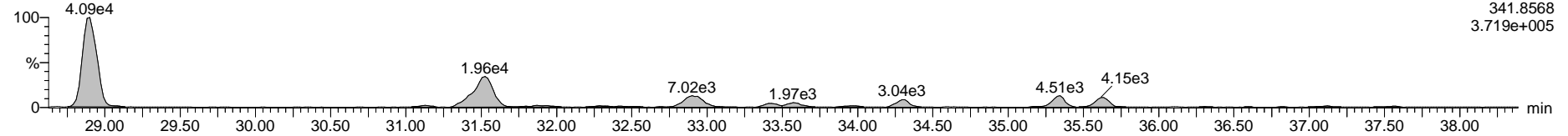
Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S24 Smooth(SG,1x2)

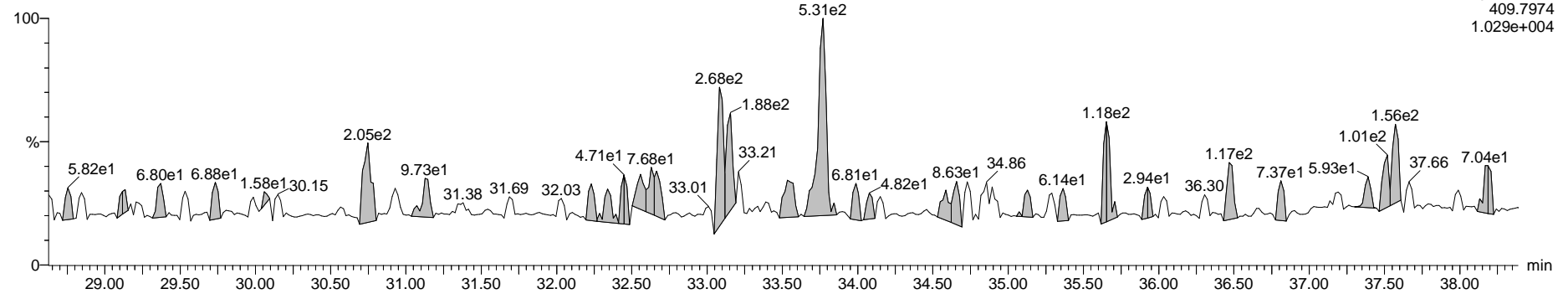


DX9M_083S24 Smooth(SG,1x2)



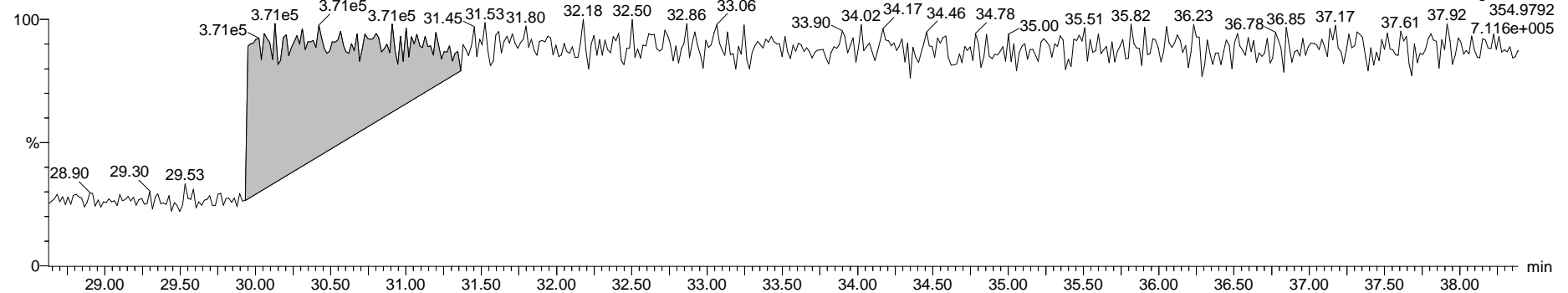
Hepta DPE

DX9M_083S24 Smooth(SG,1x2)



Penta Lock

DX9M_083S24



PV WL 15-JUL-2009

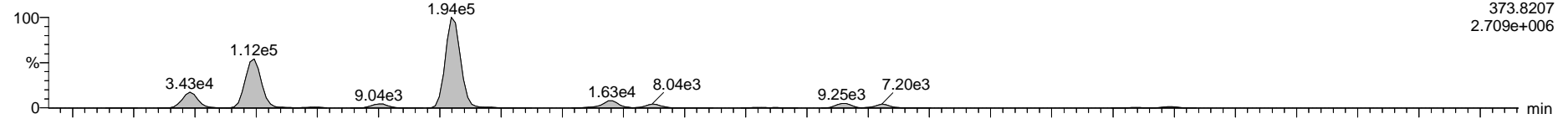


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

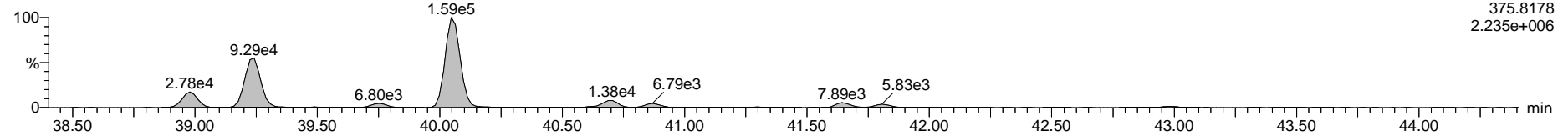
Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

Total Hexa-Furans

DX9M_083S24 Smooth(SG,1x2)

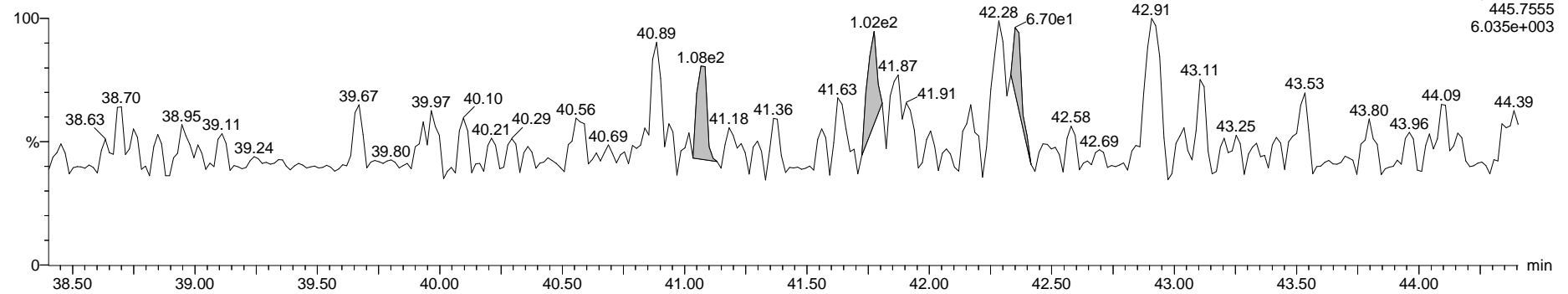


DX9M_083S24 Smooth(SG,1x2)



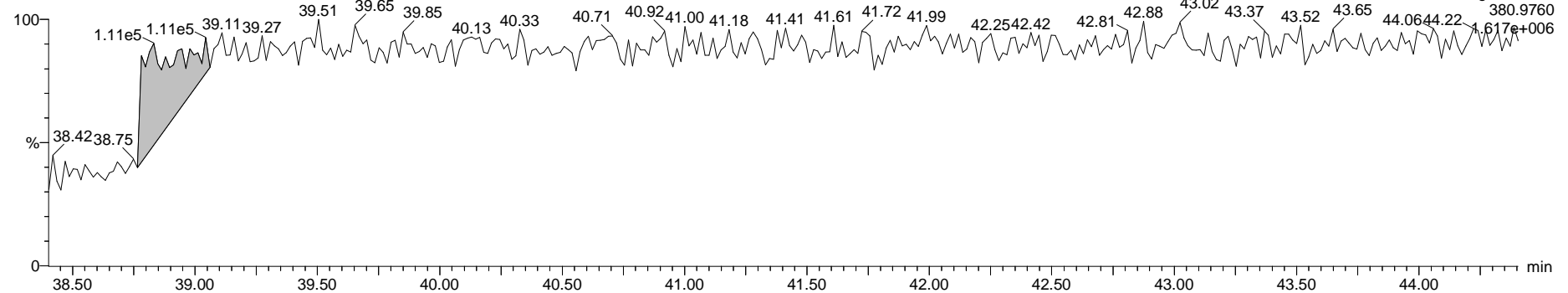
Octa DPE

DX9M_083S24 Smooth(SG,1x2)



Hexa Lock

DX9M_083S24

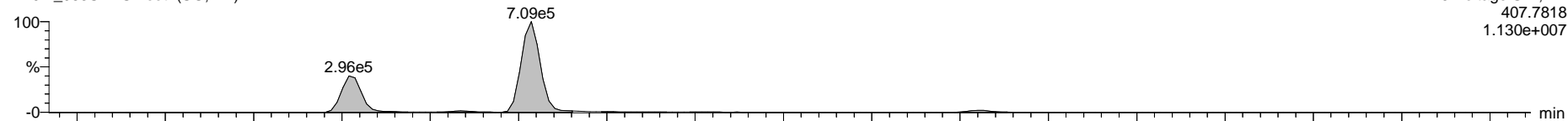


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

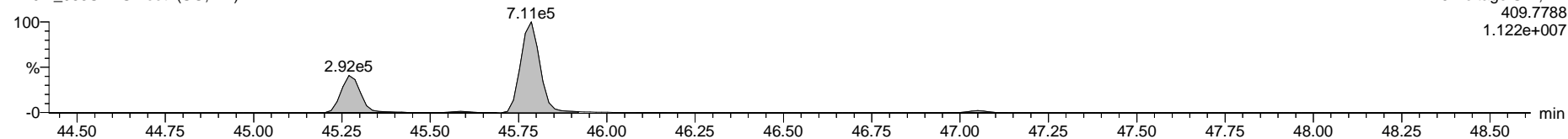
Total Hepta-Furans

DX9M_083S24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
1.130e+007

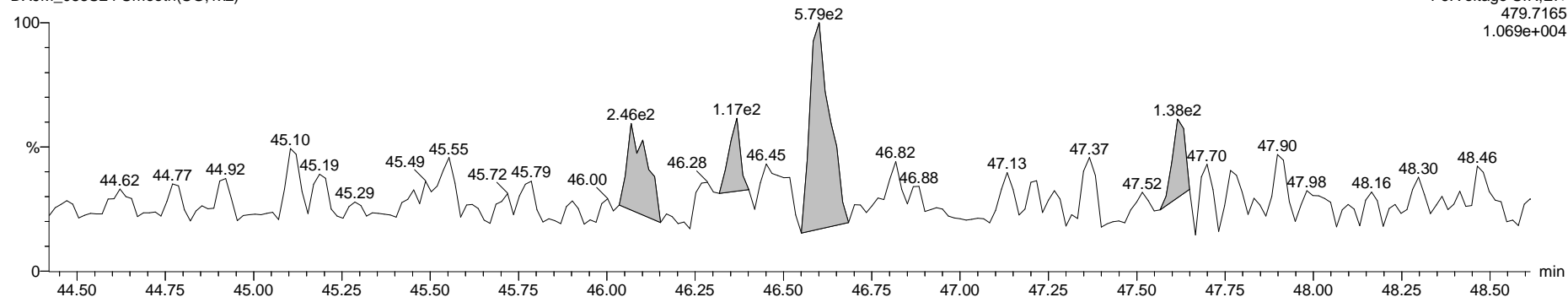
DX9M_083S24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
1.122e+007

Nona DPE

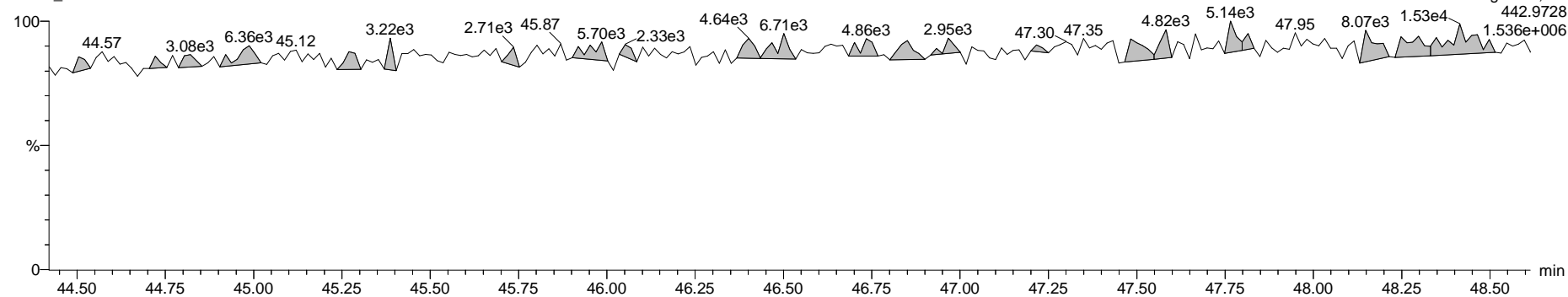
DX9M_083S24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
479.7165
1.069e+004

Hepta Lock

DX9M_083S24



F6:Voltage SIR,EI+
442.9728
1.536e+006

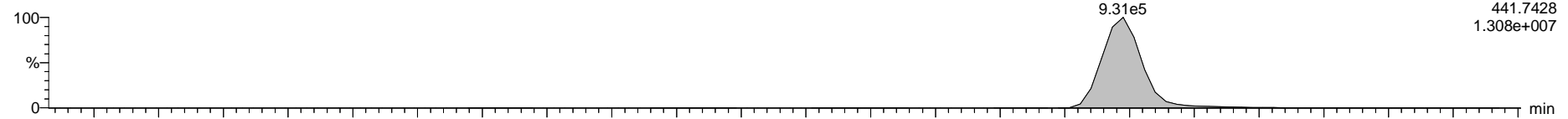


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

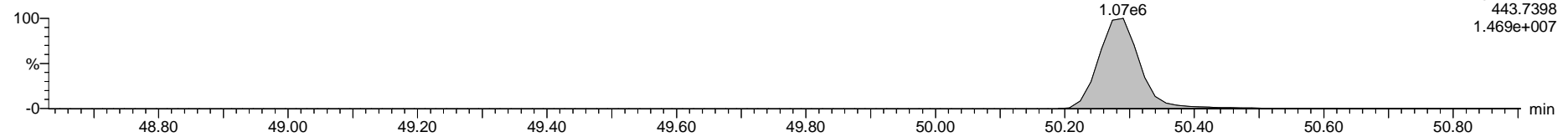
Name: DX9M_083S24, Date: 11-Jul-2009, Time: 05:45:32, ID: WG29271-103,,DUP, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_083S24 Smooth(SG,1x2)

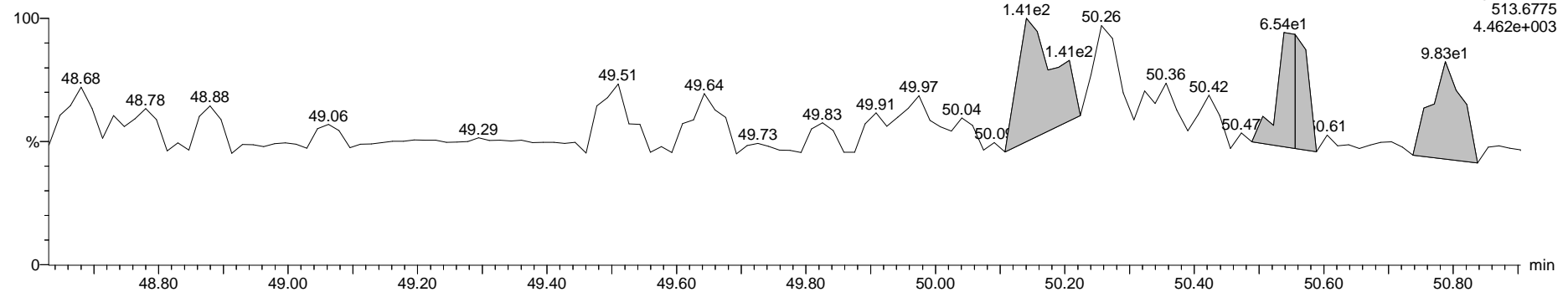


DX9M_083S24 Smooth(SG,1x2)



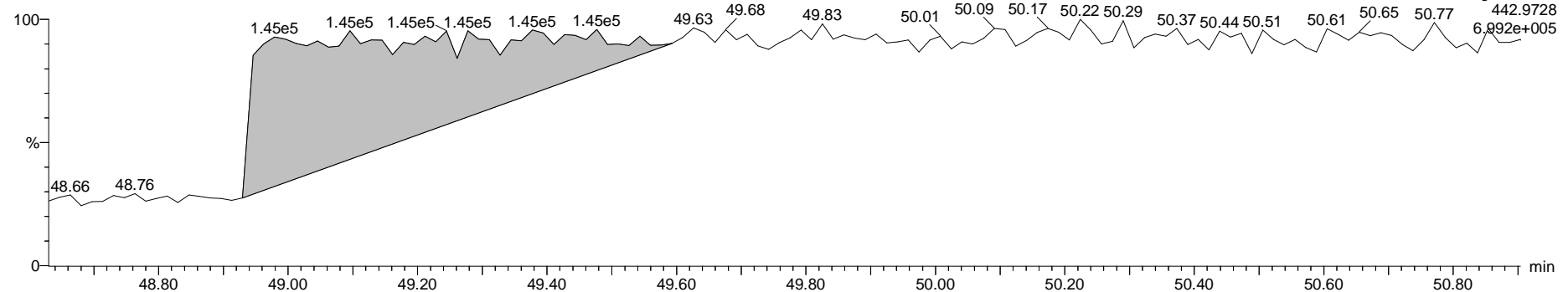
Deca DPE

DX9M_083S24 Smooth(SG,1x2)



Octa Lock

DX9M_083S24



Run #11 Filename DB93_149C S: 6 I: 1 Acquired: 13-JUL-09 20:42:22 Processed: 15-JUL-09 14:03:43
 Run: db93_149c> Analyte: 1613B-db-s4 Cal: db93_146d> Results: db93_149c> Version: V3.6 6-JAN-2000 17:51:42
 Sample text: WG29271-103,,Dup Comments: 1,WG29271,2.0/20uL
 sample size: 10.110000 conc units: pg/g total toxicity: 0.10 F1: 1.0000 F2: 1.0000

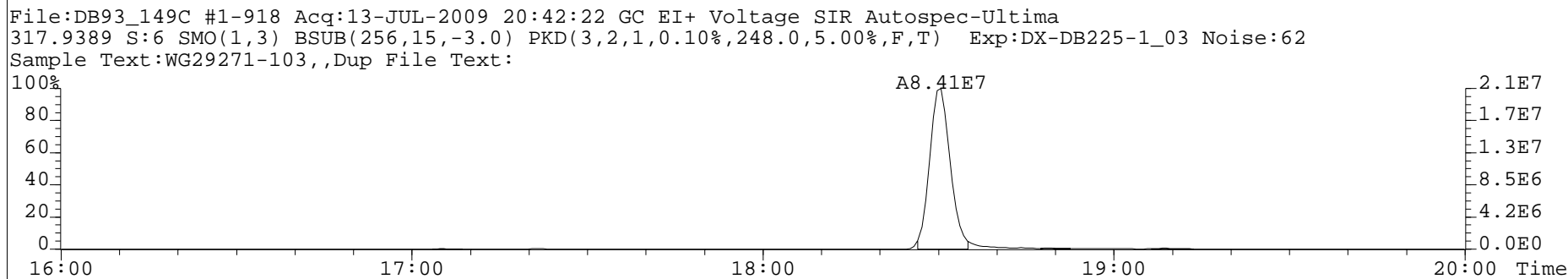
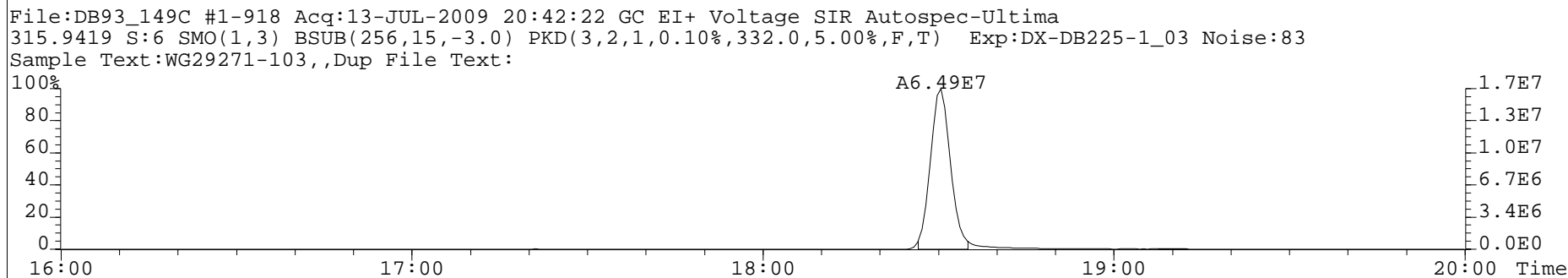
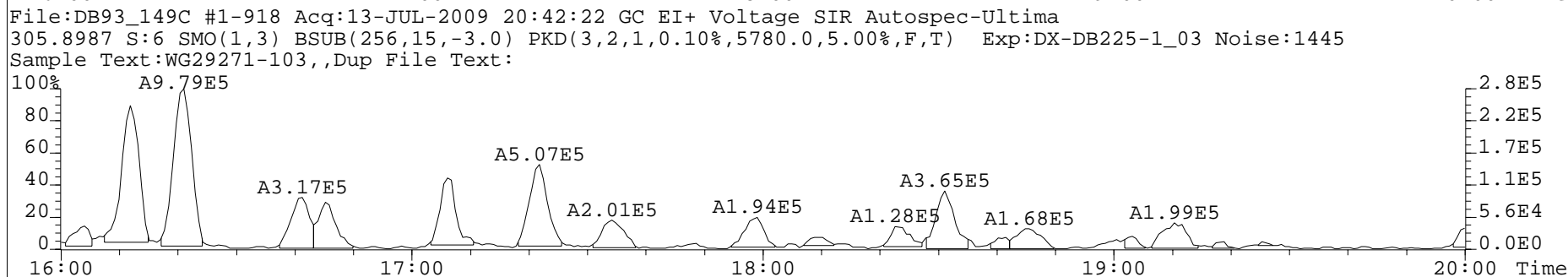
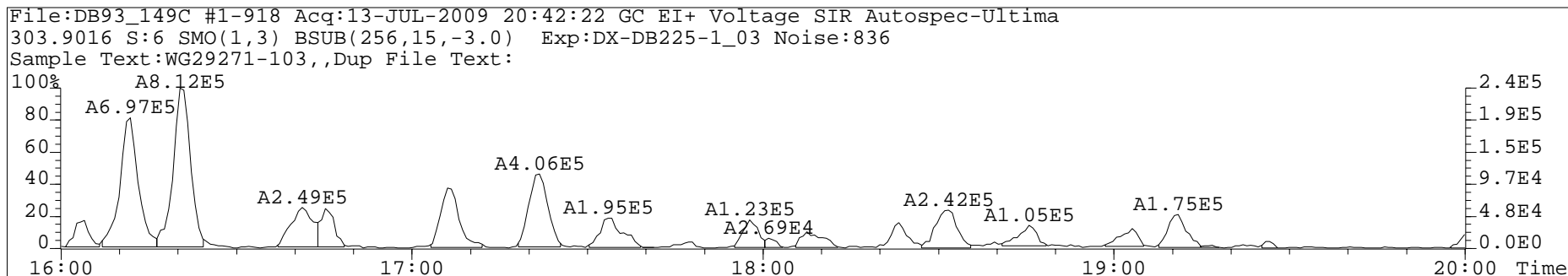
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	6.07e+05	0.66	y 18:31	1.028	0	0.1515	-	y
2 IS/RT	13C-2,3,7,8-TCDF	1	1.49e+08	0.77	y 18:30	162.961	-	0.0059	82.4	n
3 RS	13C-1,2,3,4-TCDD	1	1.24e+08	0.78	y 17:24	18.664	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

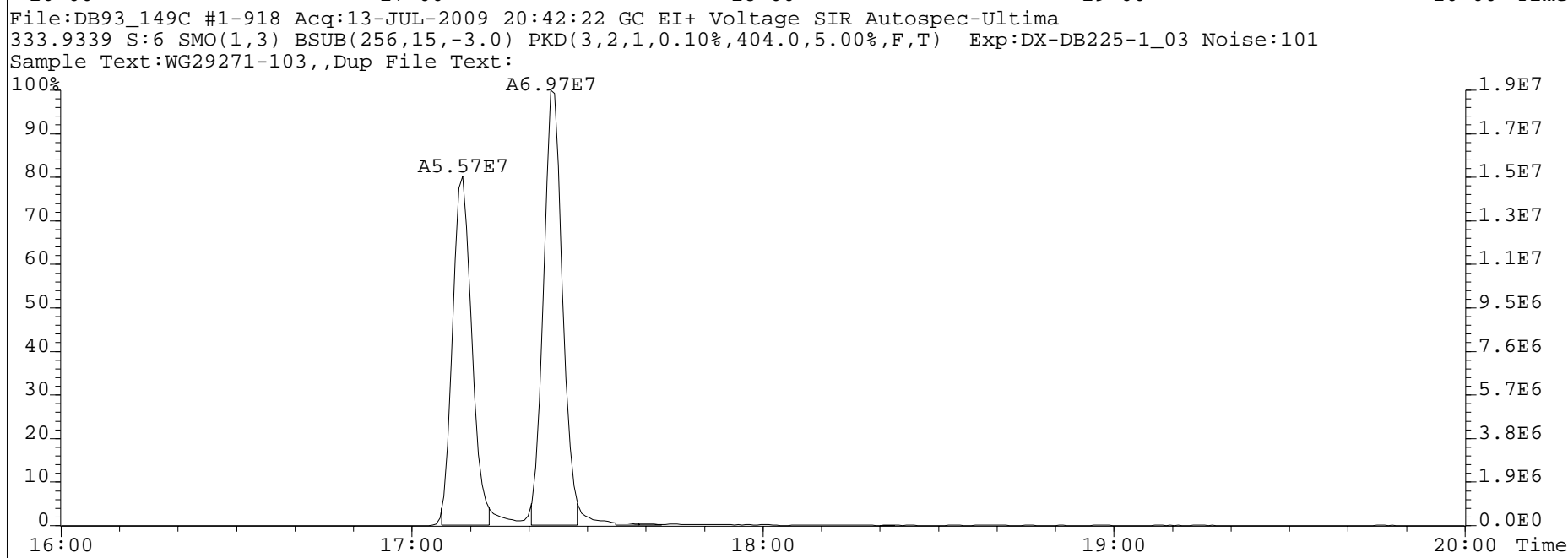
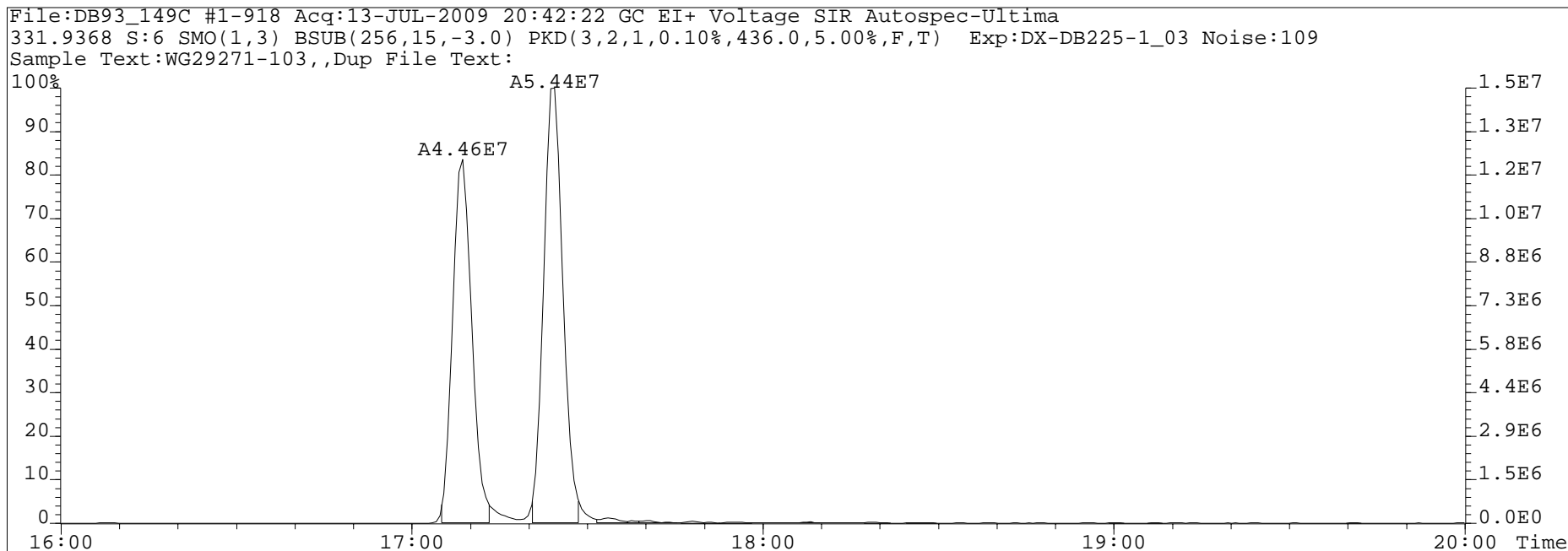
SUD BAA

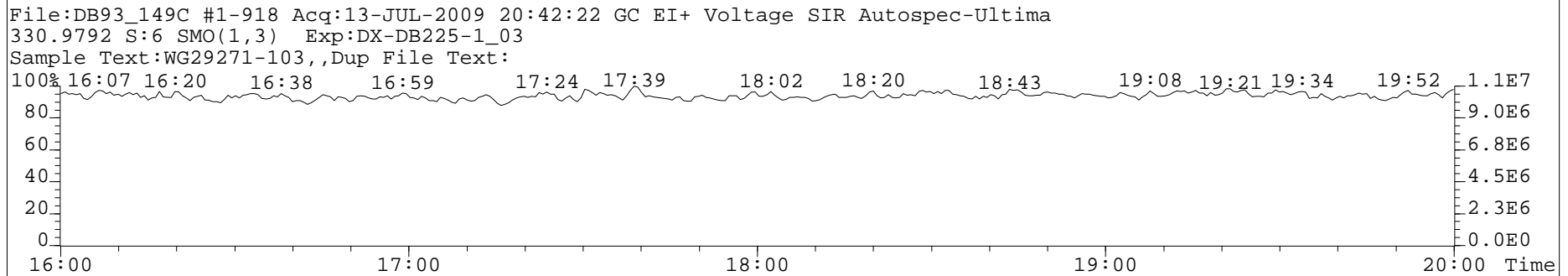
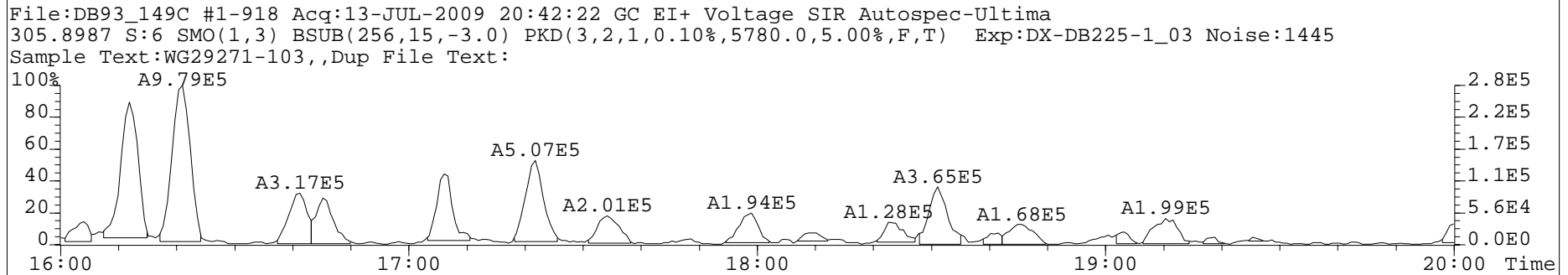
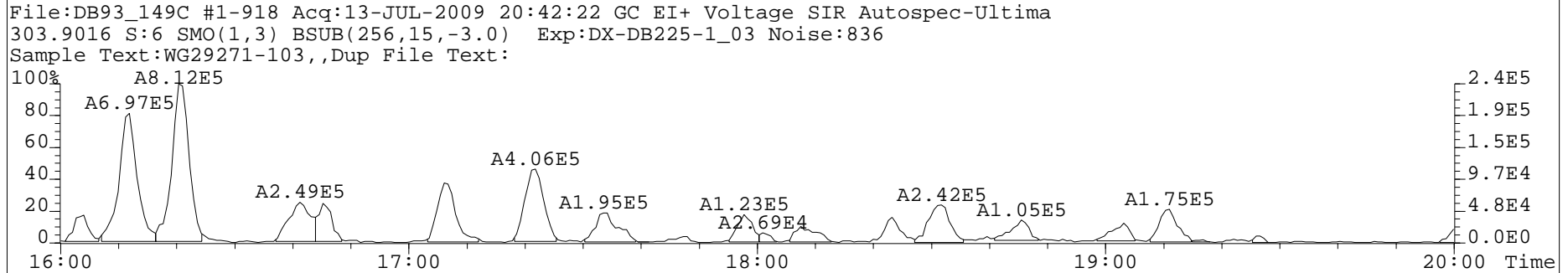
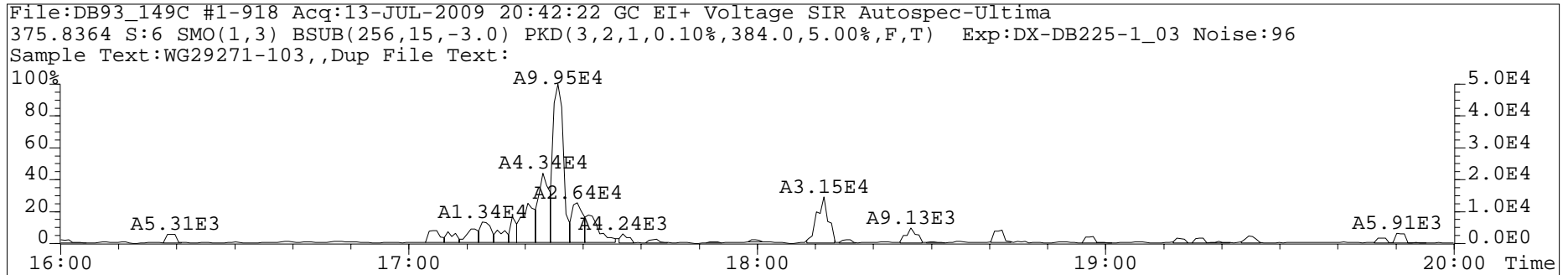
22-Jul-09

PV BY 111
 15-July-09

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Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S4, Date: 10-Jul-2009, Time: 11:12:16, ID: WG29271-101,I2,Blank, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	fails?	RT	pg/g	DL	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	10.000			NO		0.1217			1.57e3	7.27e2
2	1,2,3,7,8-PeCDF	10.000			NO		0.1545			1.41e3	6.50e2
3	2,3,4,7,8-PeCDF	10.000			NO		0.1444			1.41e3	6.50e2
4	1,2,3,4,7,8-HxCDF	10.000			NO		0.0880			4.63e2	9.15e2
5	1,2,3,6,7,8-HxCDF	10.000			NO		0.0834			4.63e2	9.15e2
6	2,3,4,6,7,8-HxCDF	10.000			NO		0.0949			4.63e2	9.15e2
7	1,2,3,7,8,9-HxCDF	10.000			NO		0.1179			4.63e2	9.15e2
8	1,2,3,4,6,7,8-HpCDF	10.000			NO		0.0967			7.61e2	5.74e2
9	1,2,3,4,7,8,9-HpCDF	10.000			NO		0.1316			7.61e2	5.74e2
10	OCDF	10.000			NO		0.3375			1.91e3	8.95e2
11	2,3,7,8-TCDD	10.000			NO		0.1381			1.16e3	1.02e3
12	1,2,3,7,8-PeCDD	10.000			NO		0.2421			1.67e3	1.20e3
13	1,2,3,4,7,8-HxCDD	10.000			NO		0.1547			1.49e3	5.91e2
14	1,2,3,6,7,8-HxCDD	10.000			NO		0.1580			1.49e3	5.91e2
15	1,2,3,7,8,9-HxCDD	10.000			NO		0.1594			1.49e3	5.91e2
16	1,2,3,4,6,7,8-HpCDD	10.000			NO		0.1399			6.24e2	1.10e3
17	OCDD	10.000			NO		0.1694			8.56e2	6.62e2
18	13C-2,3,7,8-TCDF	10.000	1.27e6	0.75	NO	25.29	151.125	0.2448	75.6	5.15e3	3.03e3
19	13C-1,2,3,7,8-PeCDF	10.000	9.77e5	1.53	NO	33.63	166.175	0.1921	83.1	2.51e3	1.97e3
20	13C-2,3,4,7,8-PeCDF	10.000	9.23e5	1.55	NO	35.38	161.355	0.1974	80.7	2.51e3	1.97e3
21	13C-1,2,3,4,7,8-HxCDF	10.000	6.46e5	0.50	NO	40.72	152.779	0.3086	76.4	4.33e3	2.19e3
22	13C-1,2,3,6,7,8-HxCDF	10.000	7.73e5	0.51	NO	40.90	157.170	0.2652	78.6	4.33e3	2.19e3
23	13C-2,3,4,6,7,8-HxCDF	10.000	6.71e5	0.51	NO	41.84	148.663	0.2891	74.3	4.33e3	2.19e3
24	13C-1,2,3,7,8,9-HxCDF	10.000	6.03e5	0.50	NO	42.88	143.129	0.3098	71.6	4.33e3	2.19e3
25	13C-1,2,3,4,6,7,8-HpCDF	10.000	4.84e5	0.43	NO	45.30	143.045	0.2564	71.5	1.44e3	2.90e3
26	13C-1,2,3,4,7,8,9-HpCDF	10.000	4.09e5	0.44	NO	47.08	131.027	0.2783	65.5	1.44e3	2.90e3
27	13C-2,3,7,8-TCDD	10.000	9.72e5	0.78	NO	26.51	150.019	0.5257	75.0	3.61e3	9.89e3
28	13C-1,2,3,7,8-PeCDD	10.000	7.16e5	0.62	NO	36.18	170.716	0.2955	85.4	3.24e3	1.67e3
29	13C-1,2,3,4,7,8-HxCDD	10.000	6.16e5	1.25	NO	42.12	152.296	0.2335	76.1	2.75e3	1.97e3
30	13C-1,2,3,6,7,8-HxCDD	10.000	7.26e5	1.25	NO	42.25	153.779	0.2000	76.9	2.75e3	1.97e3
31	13C-1,2,3,4,6,7,8-HpCDD	10.000	4.85e5	1.01	NO	46.68	137.061	0.2837	68.5	1.51e3	3.51e3
32	13C-OCDD	10.000	7.76e5	0.88	NO	50.22	192.805	0.1450	48.2	2.00e3	9.20e2
33	13C-1,2,3,4-TCDD	10.000	1.19e6	0.77	NO	26.18	6.706	0.0192	3.4	3.61e3	9.89e3
34	13C-1,2,3,7,8,9-HxCDD	10.000	8.29e5	1.21	NO	42.68	7.366	0.0084	3.7	2.75e3	1.97e3
35	37Cl-2,3,7,8-TCDD	10.000	1.11e5			26.55	18.028	0.0851	90.1		2.08e3
36	Total Tetra-Furans	10.000					0.0385 0.1217				7.27e2
37	Total Tetra-Dioxins	10.000					0.0817 0.1381				1.02e3
38	Total Penta-Furans	10.000					0.0476 0.1545				6.50e2
39	Total Penta-Dioxins	10.000					0.1011 0.2421				1.20e3
40	Total Hexa-Furans	10.000					0.0581 0.1179				9.15e2
41	Total Hexa-Dioxins	10.000					1.008 0.1594				5.91e2
42	Total Hepta-Furans	10.000					0.0460 0.1316				5.74e2
43	Total Hepta-Dioxins	10.000					0.0804 0.1399				1.10e3
44	Hexa DPE	1.000	2.85e2			24.78					1.44e3
45	Hepta DPE	1.000									2.03e3
46	Octa DPE	1.000	1.28e2			38.98					1.21e3
47	Nona DPE	1.000									2.41e3
48	Deca DPE	1.000									9.26e2
49	Tetra Lock	1.000	5.82e4			27.31					6.18e5
50	Penta Lock	1.000	3.80e6			29.37					4.87e5
51	Hexa Lock	1.000	2.36e6			39.16					1.05e6
52	Hepta Lock	1.000	6.88e4			44.84					6.43e5
53	Octa Lock	1.000	7.73e6			49.13					2.17e6

ND
 ↓
 1.008

PV WL 14-JUL-2009
 SVD BRA 22-Jul-09



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S4, Date: 10-Jul-2009, Time: 11:12:16, ID: WG29271-101,I2,Blank, Description: 1,WG29271,1.0/20uL

Tetrafurans

RT	1 ^o Ratio (A)	Fails?	pg
1			

1g

Tetradioxins

RT	1 ^o Ratio (A)	Fails?	pg
1	25.29	4.686 YES	0.817

1g

Pentafurans

RT	1 ^o Ratio (A)	Fails?	pg
1			

1g

Pentadioxins

RT	1 ^o Ratio (A)	Fails?	pg
1			

1g

Hexafurans

RT	1 ^o Ratio (A)	Fails?	pg
1			

1g

Hexadioxins

RT	1 ^o Ratio (A)	Fails?	pg
1	41.84	4.471 YES	0.885
2	40.90	4.935 YES	1.023

1g

Heptafurans

RT	1 ^o Ratio (A)	Fails?	pg
1			

1g

Heptadioxins

RT	1 ^o Ratio (A)	Fails?	pg
1			

1g

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

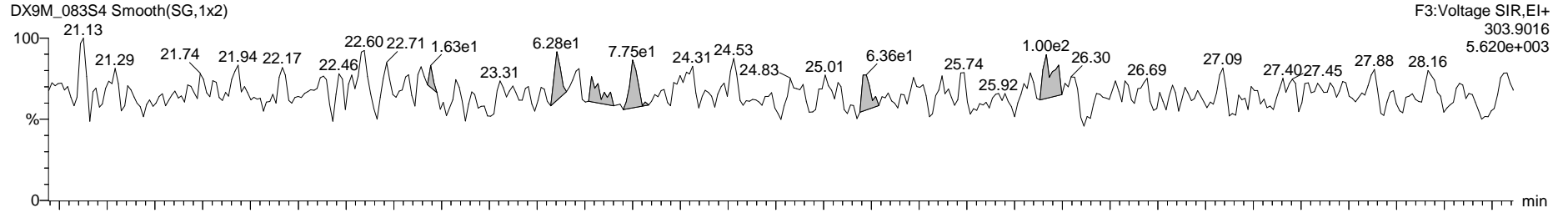
Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37

Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

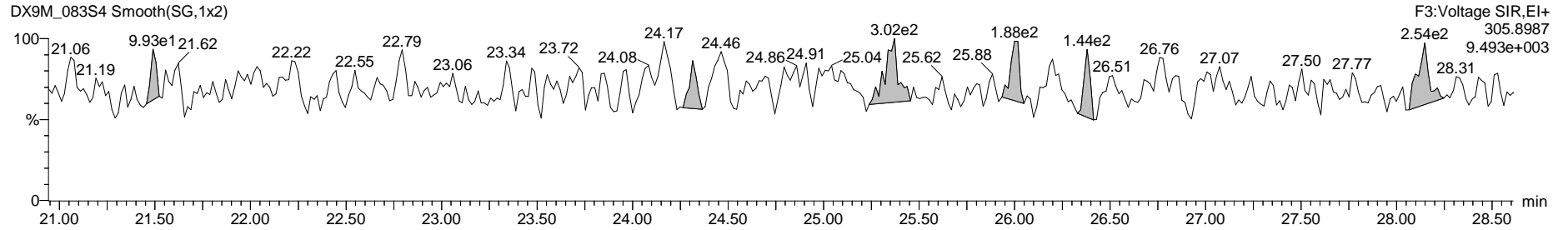
Name: DX9M_083S4, Date: 10-Jul-2009, Time: 11:12:16, ID: WG29271-101,I2,Blank, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S4 Smooth(SG,1x2)

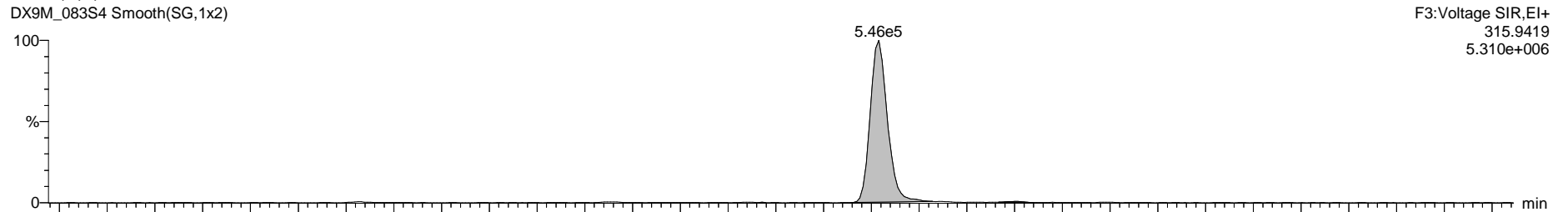


DX9M_083S4 Smooth(SG,1x2)

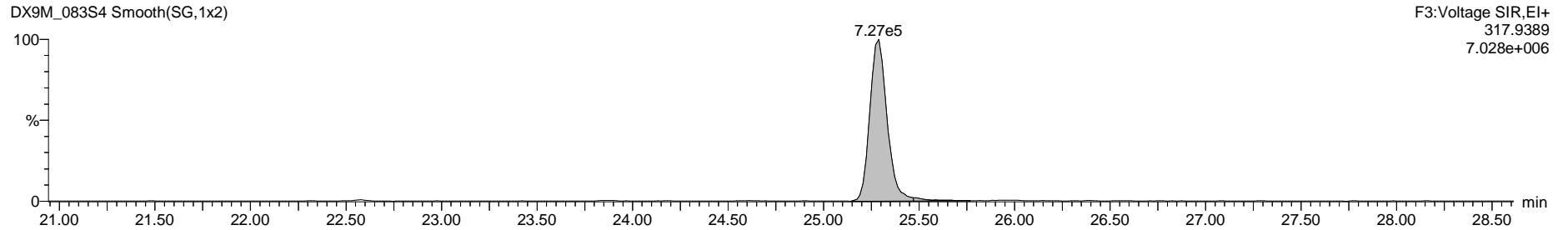


13C-2,3,7,8-TCDF

DX9M_083S4 Smooth(SG,1x2)



DX9M_083S4 Smooth(SG,1x2)

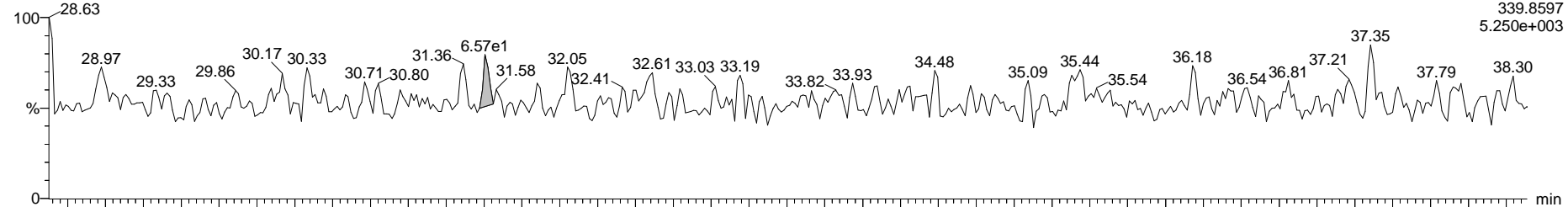


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

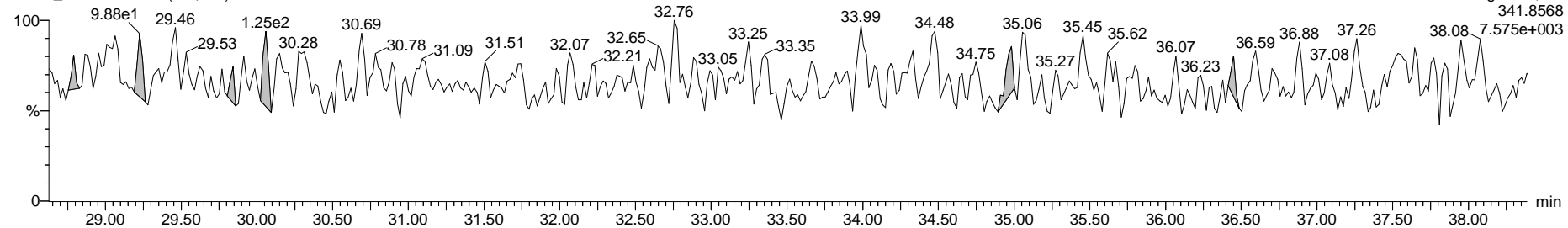
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Total Penta-Furans

DX9M_083S4 Smooth(SG,1x2)

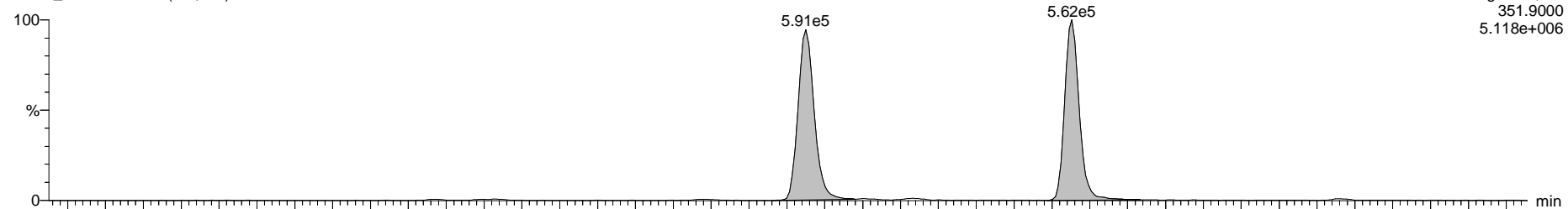


DX9M_083S4 Smooth(SG,1x2)

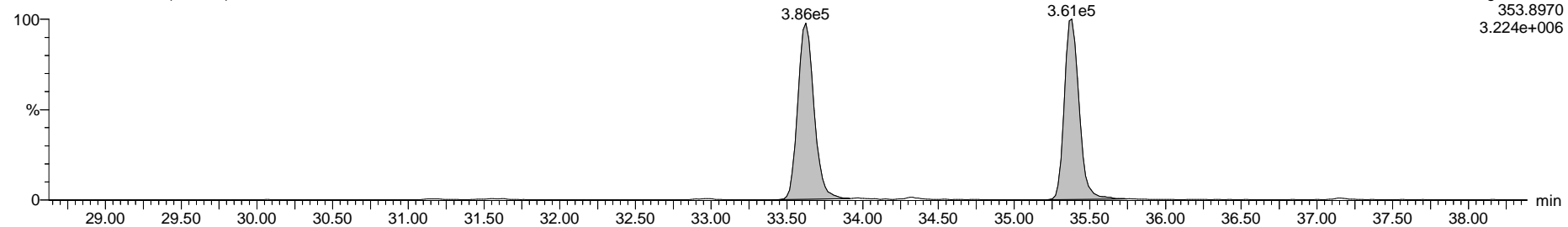


13C-1,2,3,7,8-PeCDF

DX9M_083S4 Smooth(SG,1x2)



DX9M_083S4 Smooth(SG,1x2)

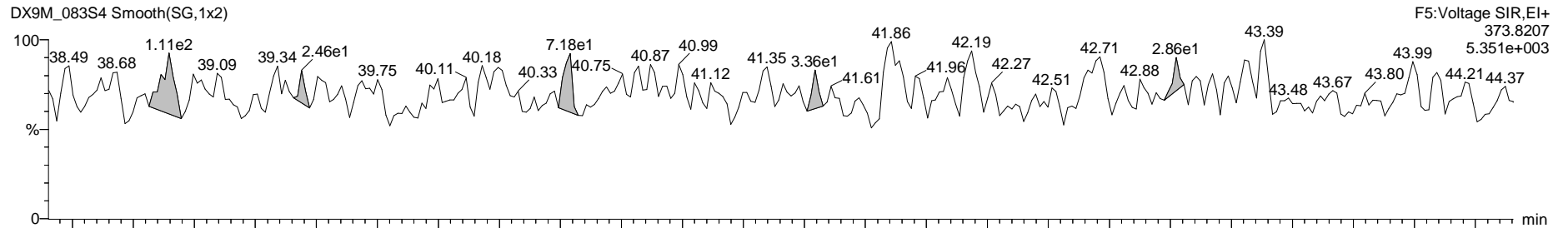


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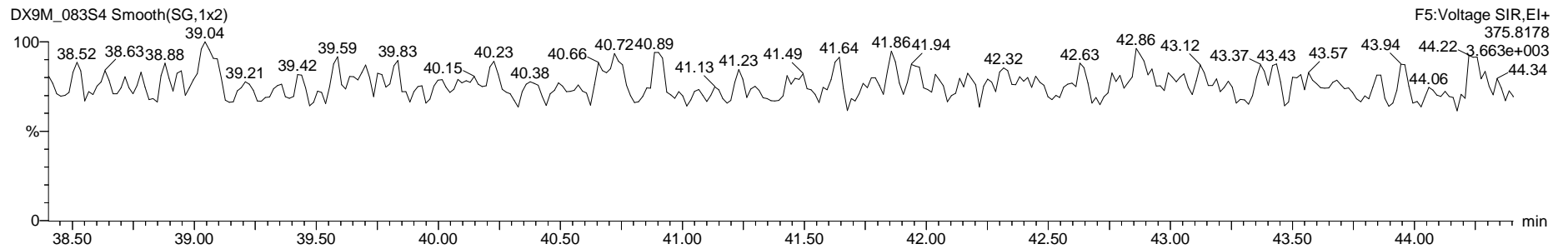
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Total Hexa-Furans

DX9M_083S4 Smooth(SG,1x2)

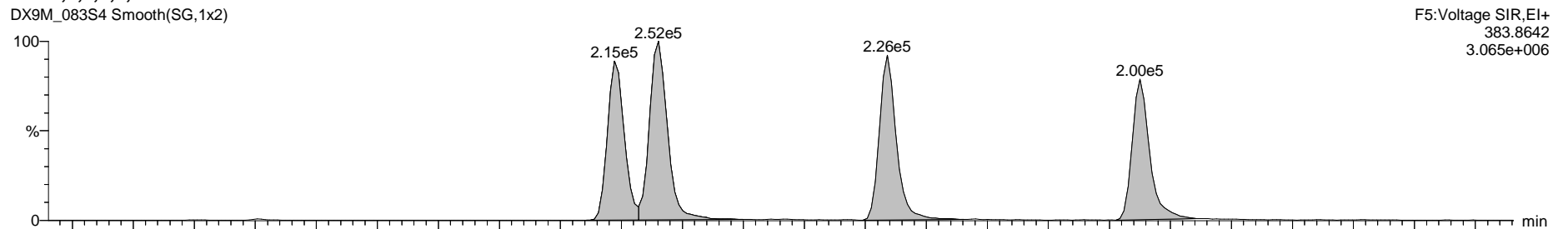


DX9M_083S4 Smooth(SG,1x2)

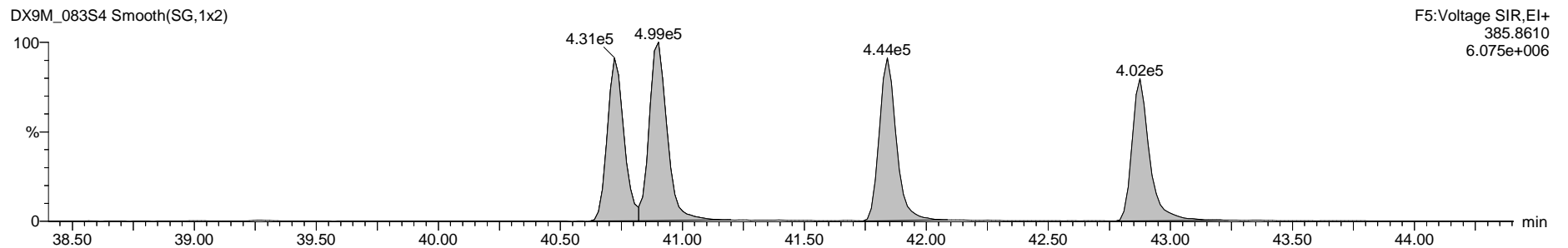


13C-1,2,3,4,7,8-HxCDF

DX9M_083S4 Smooth(SG,1x2)



DX9M_083S4 Smooth(SG,1x2)

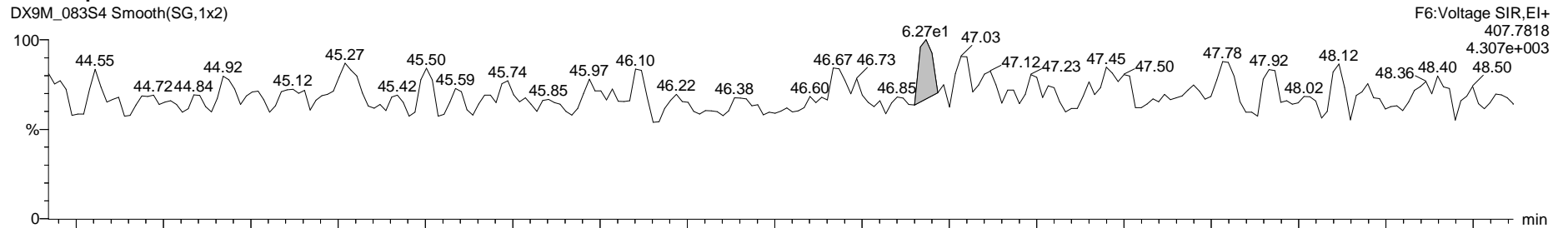


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

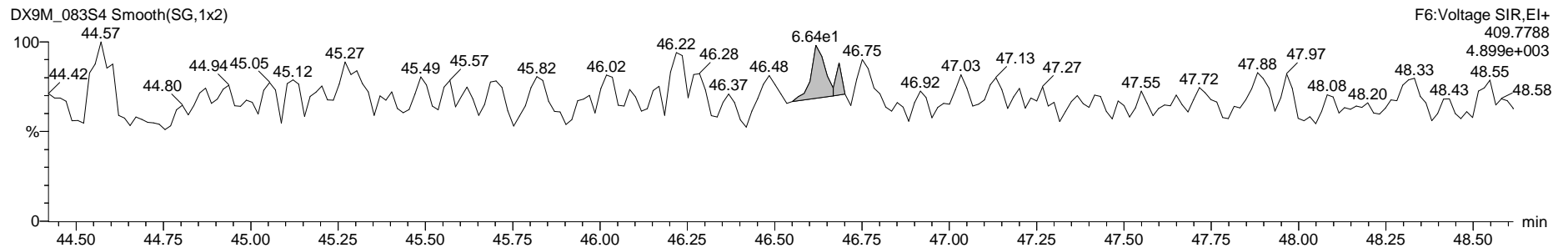
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Total Hepta-Furans

DX9M_083S4 Smooth(SG,1x2)

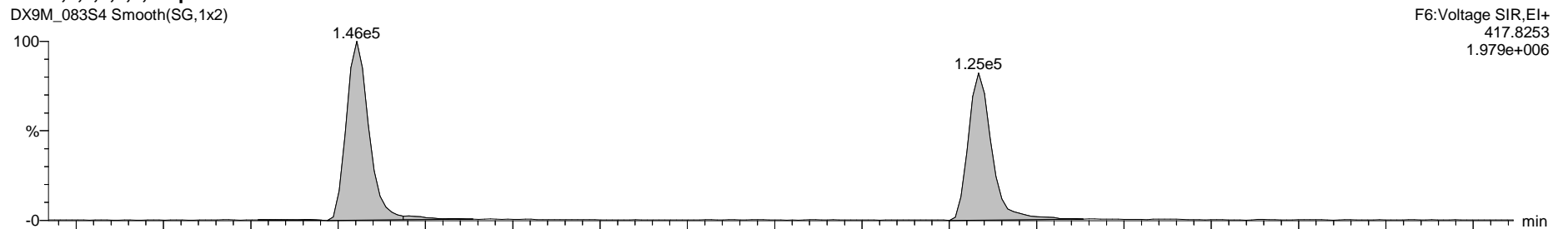


DX9M_083S4 Smooth(SG,1x2)

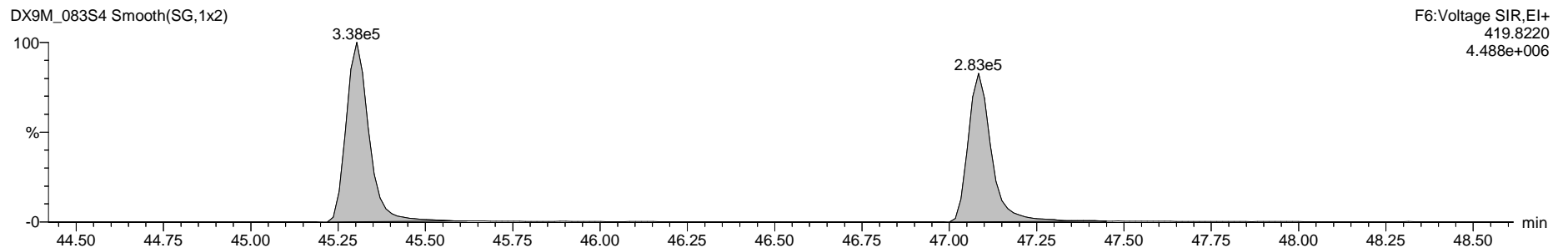


13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S4 Smooth(SG,1x2)



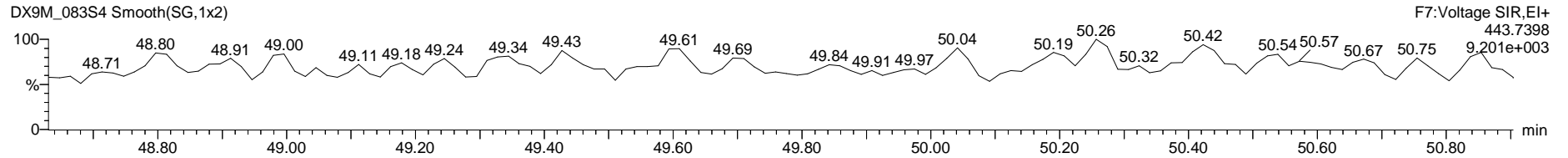
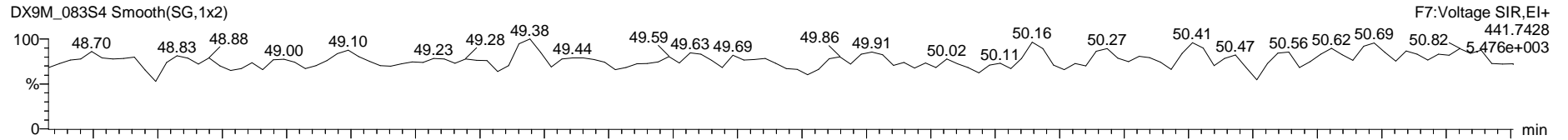
DX9M_083S4 Smooth(SG,1x2)



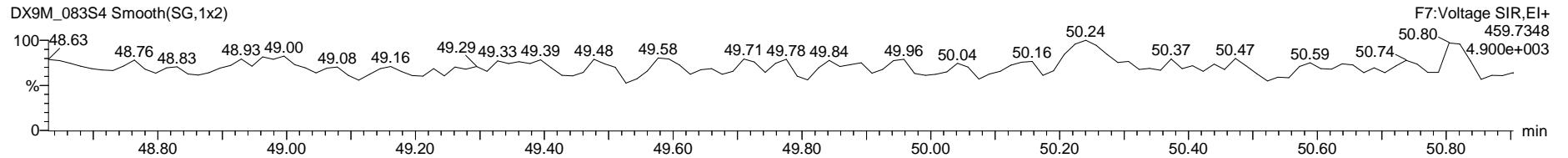
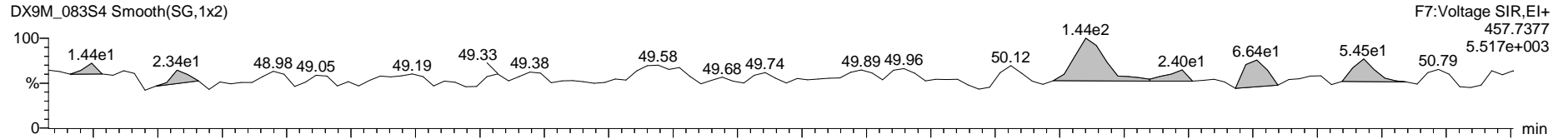
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Name: DX9M_083S4, Date: 10-Jul-2009, Time: 11:12:16, ID: WG29271-101,I2,Blank, Description: 1,WG29271,1.0/20uL

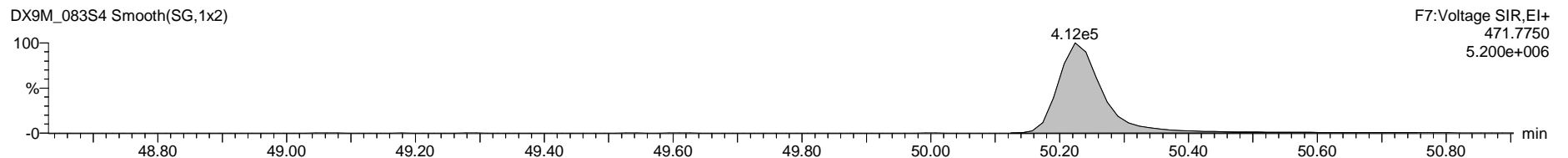
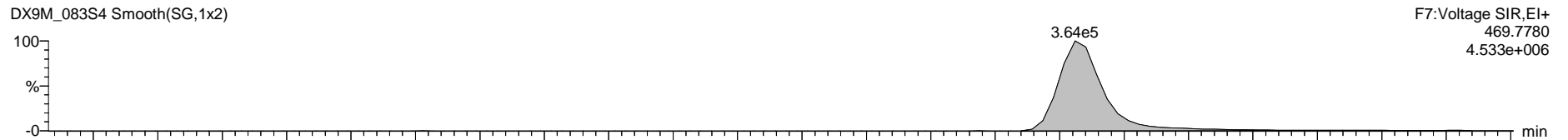
OCDF



OCDD



13C-OCDD

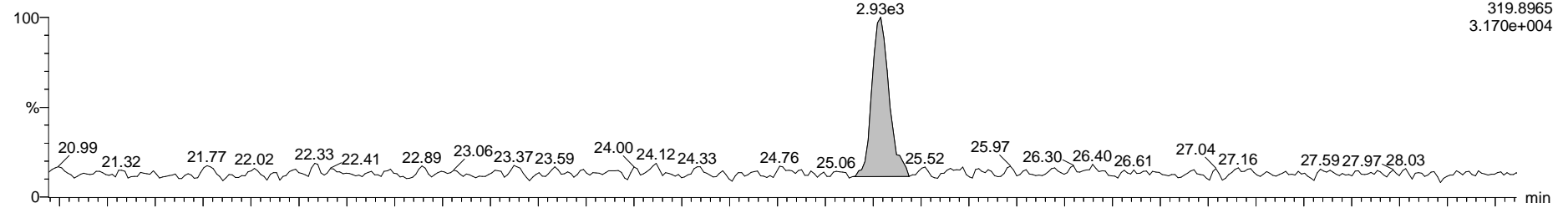


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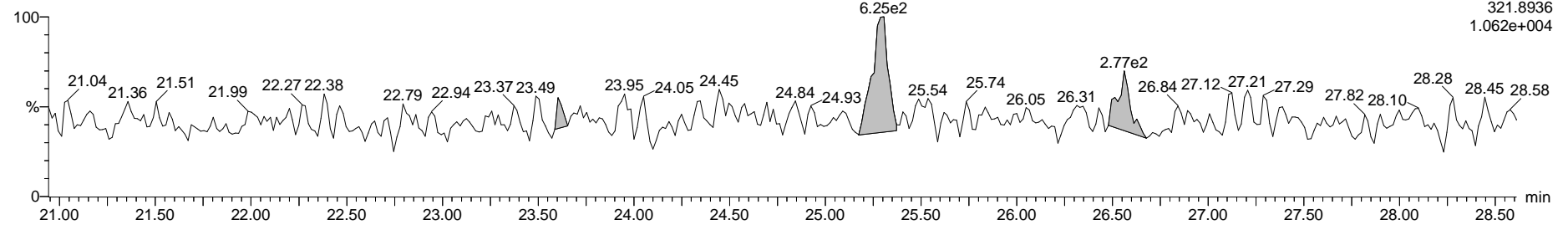
Name: DX9M_083S4, Date: 10-Jul-2009, Time: 11:12:16, ID: WG29271-101,I2,Blank, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_083S4 Smooth(SG,1x2)

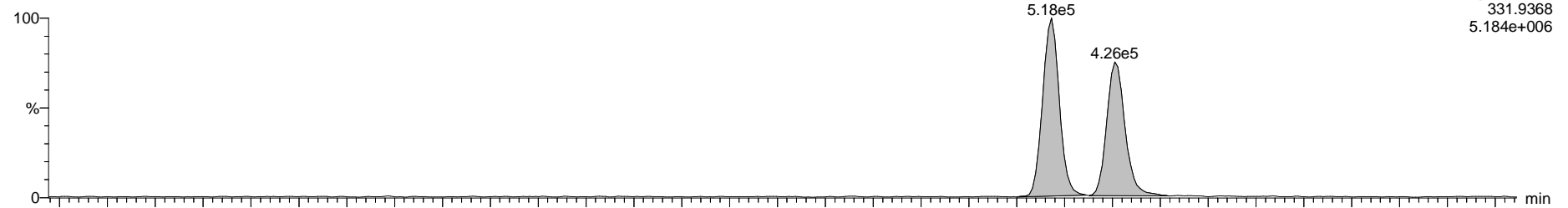


DX9M_083S4 Smooth(SG,1x2)

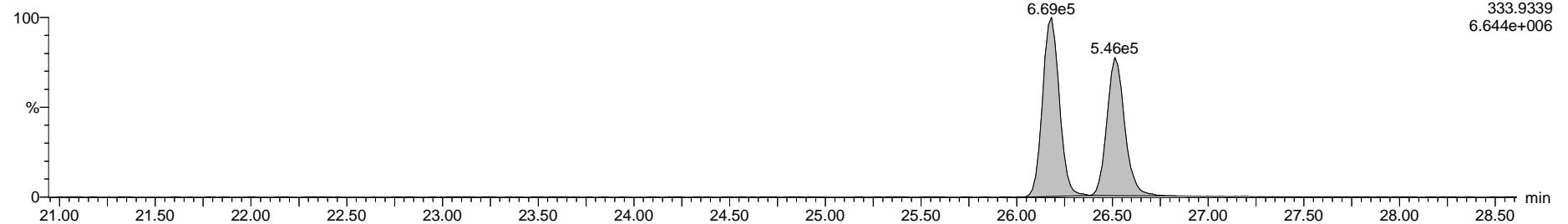


13C-2,3,7,8-TCDD

DX9M_083S4 Smooth(SG,1x2)



DX9M_083S4 Smooth(SG,1x2)



PV WL 14-JUL-2009

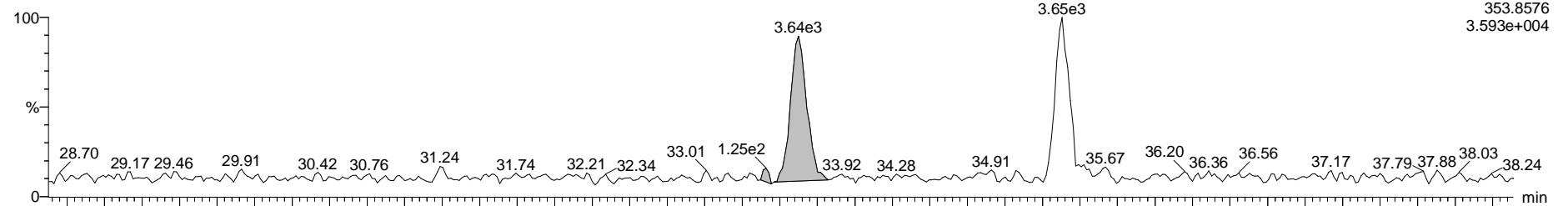


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

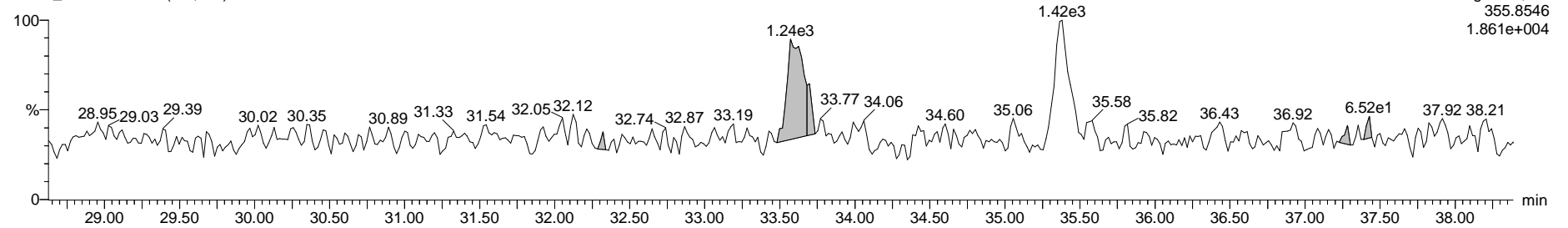
Name: DX9M_083S4, Date: 10-Jul-2009, Time: 11:12:16, ID: WG29271-101,I2,Blank, Description: 1,WG29271,1.0/20uL

Total Penta-Dioxins

DX9M_083S4 Smooth(SG,1x2)

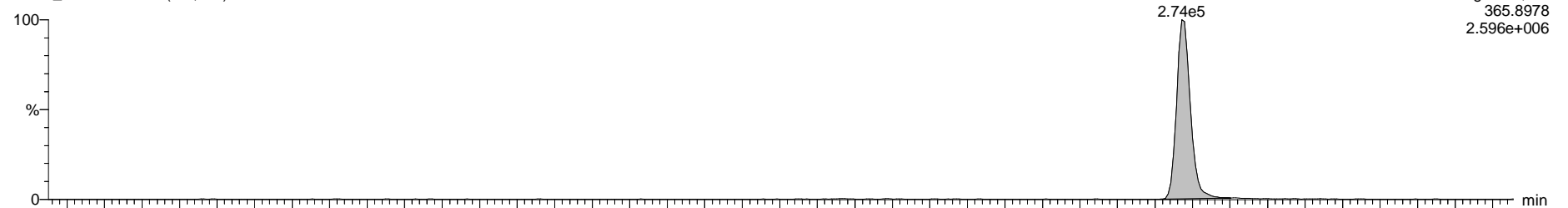


DX9M_083S4 Smooth(SG,1x2)

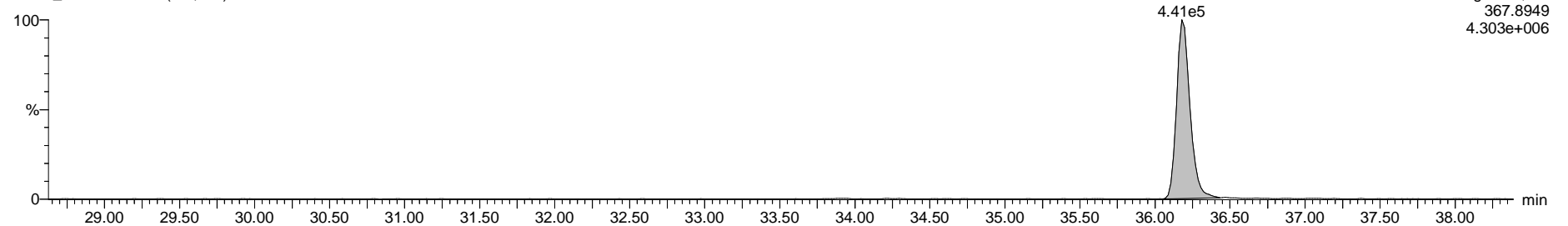


13C-1,2,3,7,8-PeCDD

DX9M_083S4 Smooth(SG,1x2)



DX9M_083S4 Smooth(SG,1x2)

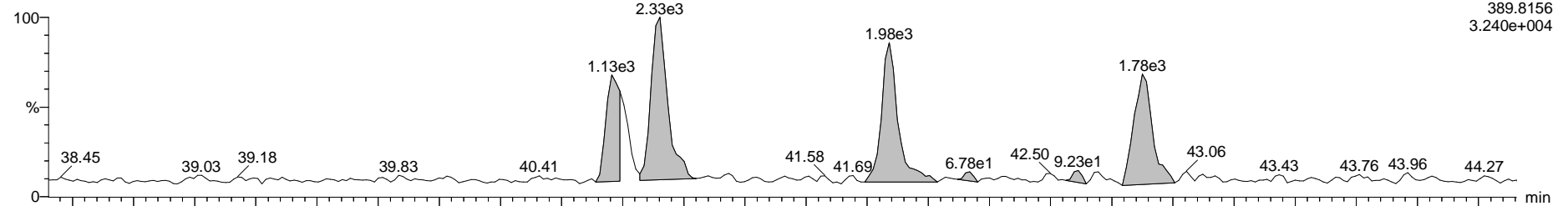


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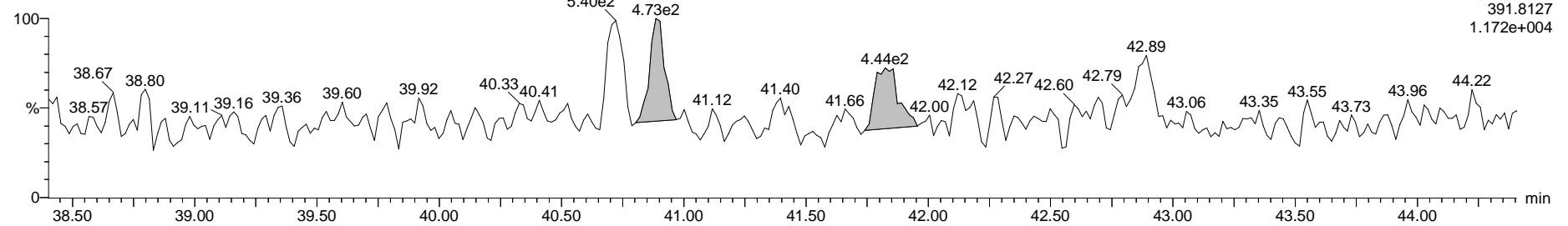
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Total Hexa-Dioxins

DX9M_083S4 Smooth(SG,1x2)

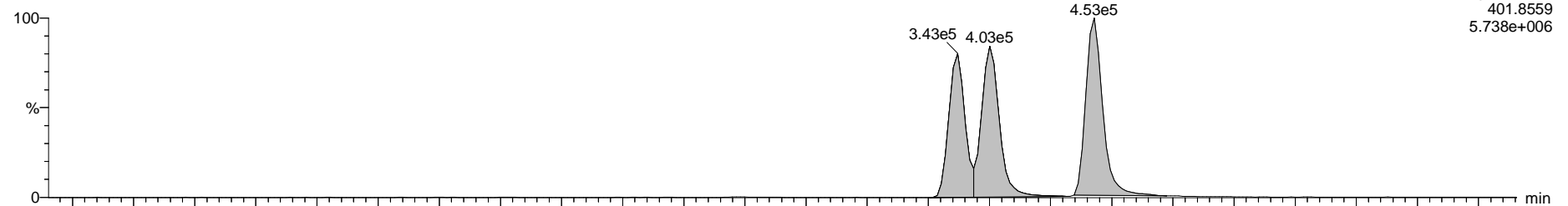


DX9M_083S4 Smooth(SG,1x2)

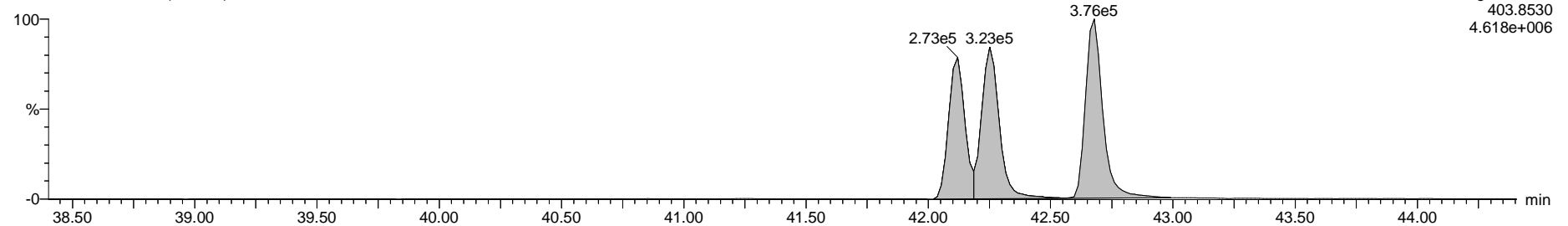


13C-1,2,3,4,7,8-HxCDD

DX9M_083S4 Smooth(SG,1x2)



DX9M_083S4 Smooth(SG,1x2)

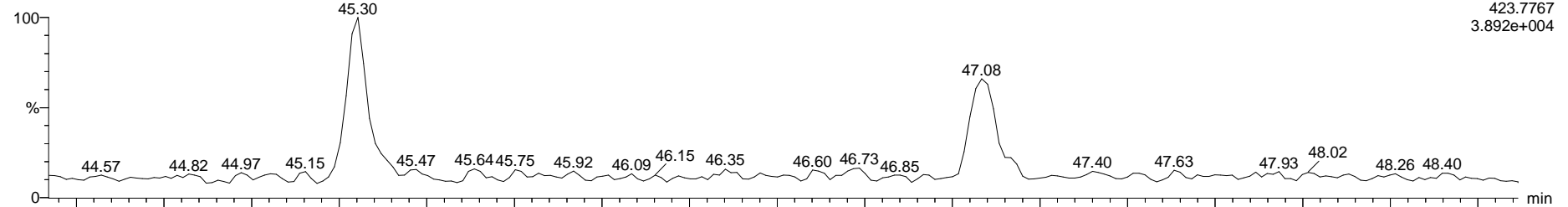


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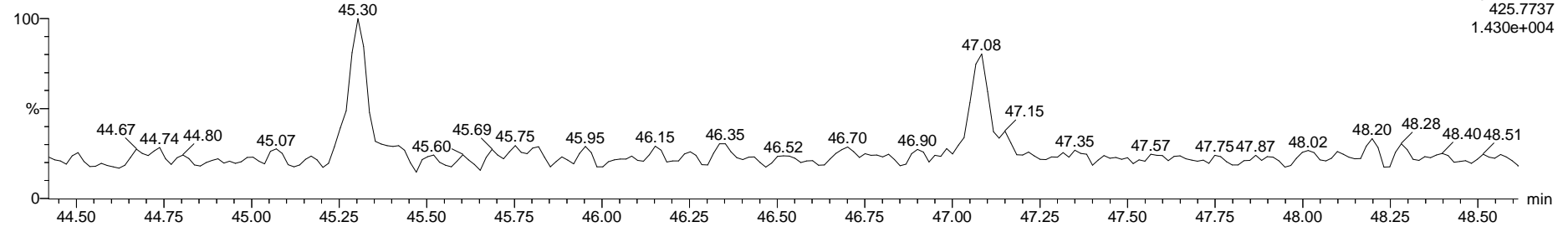
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Total Hepta-Dioxins

DX9M_083S4 Smooth(SG,1x2)

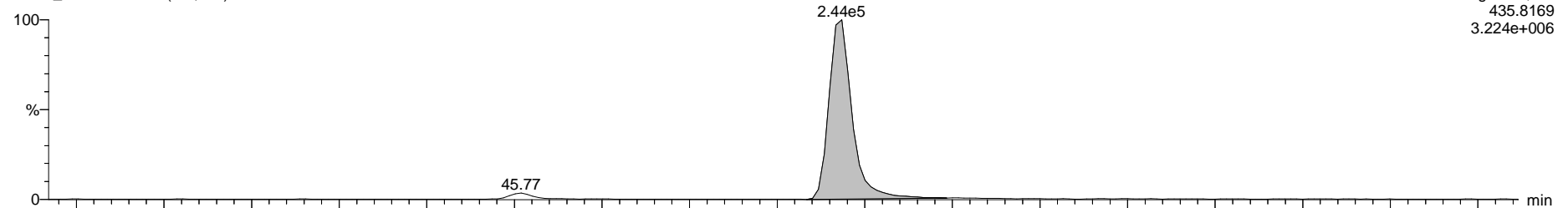


DX9M_083S4 Smooth(SG,1x2)

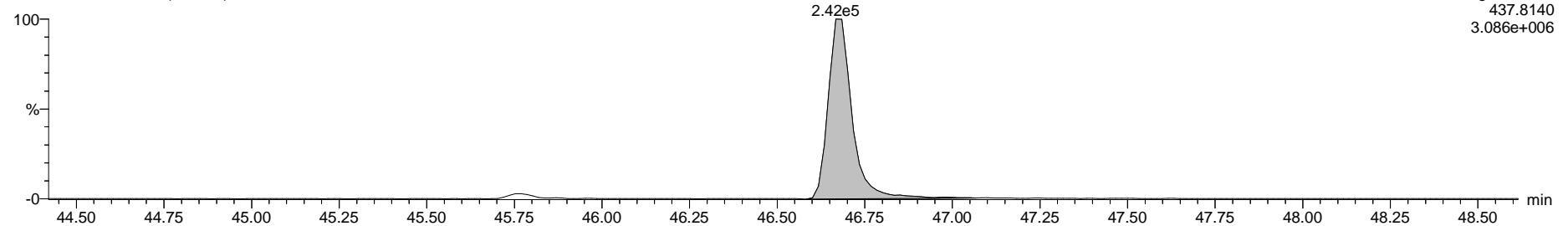


13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S4 Smooth(SG,1x2)



DX9M_083S4 Smooth(SG,1x2)

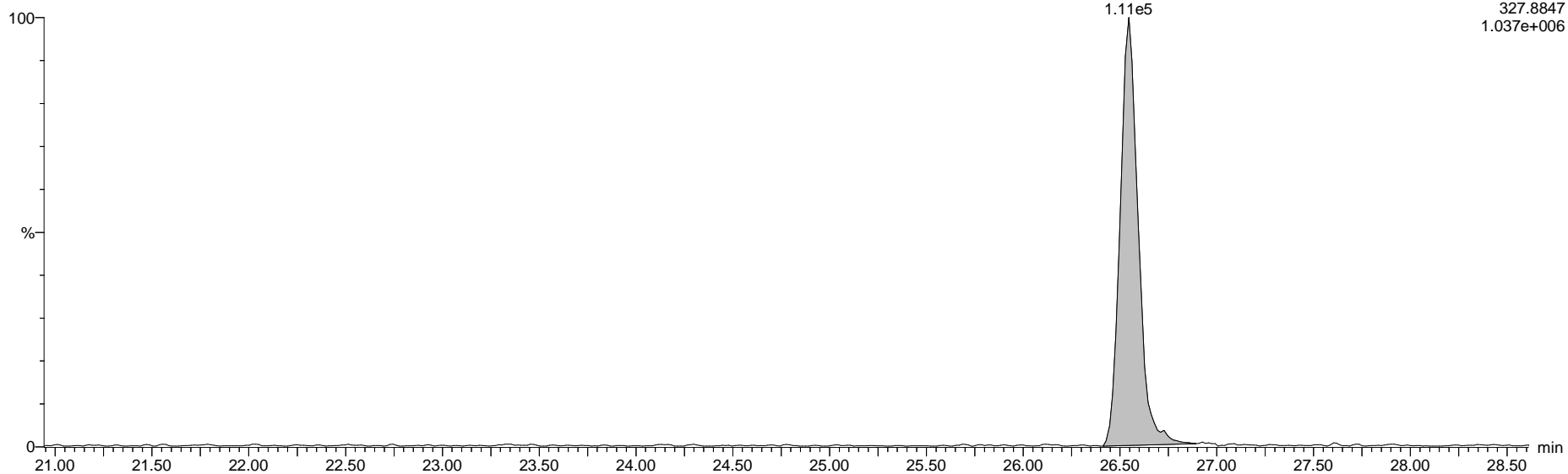


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37Cl-2,3,7,8-TCDD

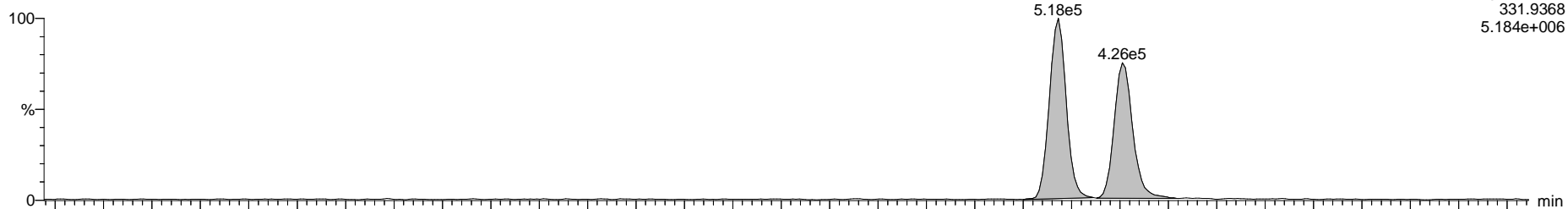
DX9M_083S4 Smooth(SG,1x2)



F3:Voltage SIR,EI+
327.8847
1.037e+006

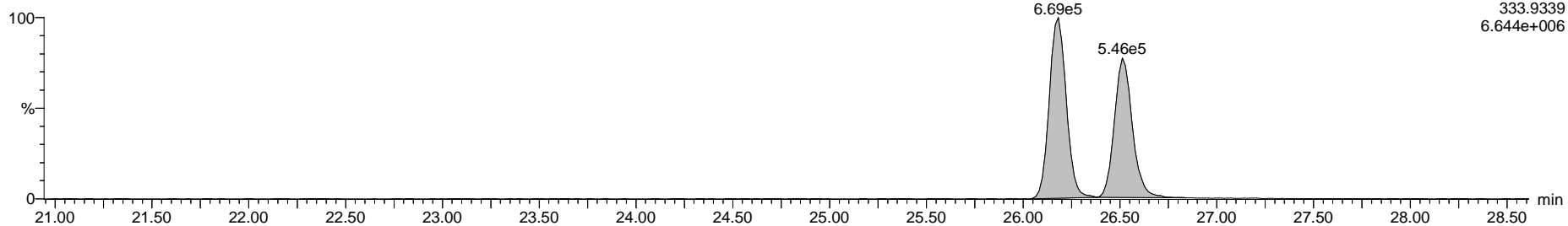
13C-1,2,3,4-TCDD

DX9M_083S4 Smooth(SG,1x2)



F3:Voltage SIR,EI+
331.9368
5.184e+006

DX9M_083S4 Smooth(SG,1x2)



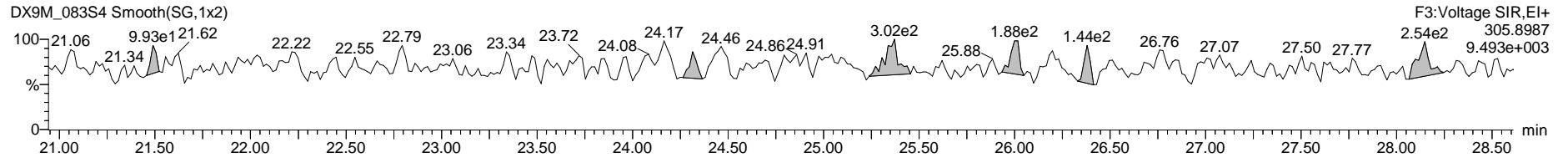
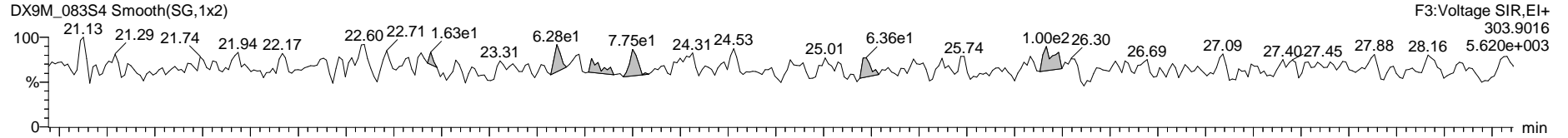
F3:Voltage SIR,EI+
333.9339
6.644e+006



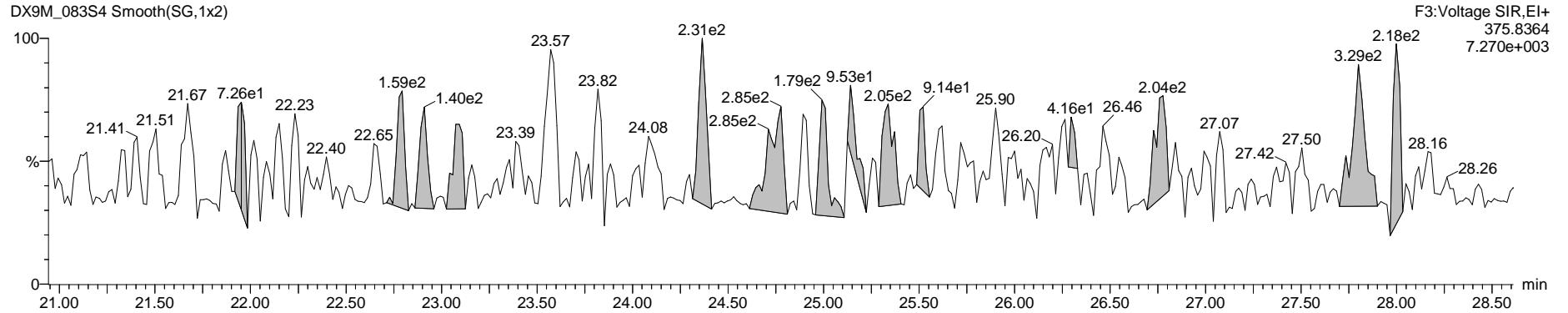
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S4, Date: 10-Jul-2009, Time: 11:12:16, ID: WG29271-101,I2,Blank, Description: 1,WG29271,1.0/20uL

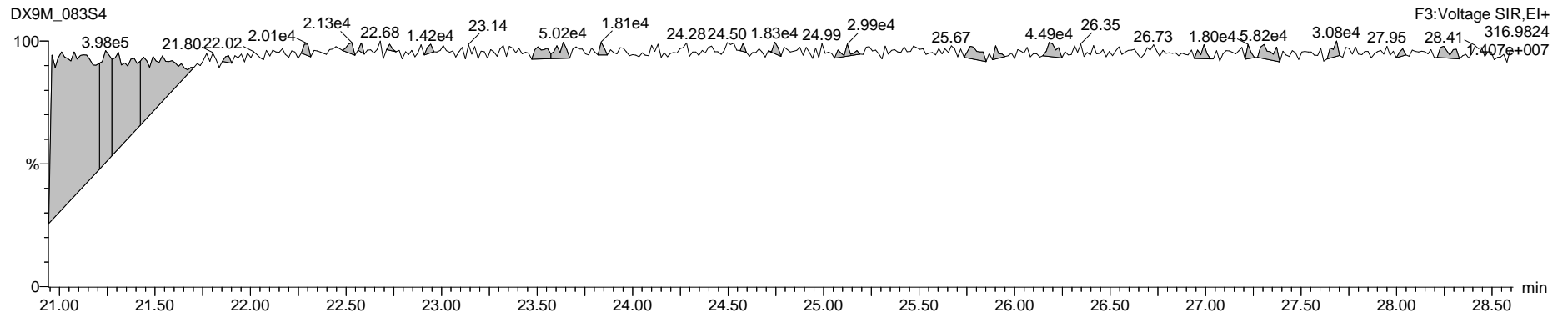
Total Tetra-Furans



Hexa DPE



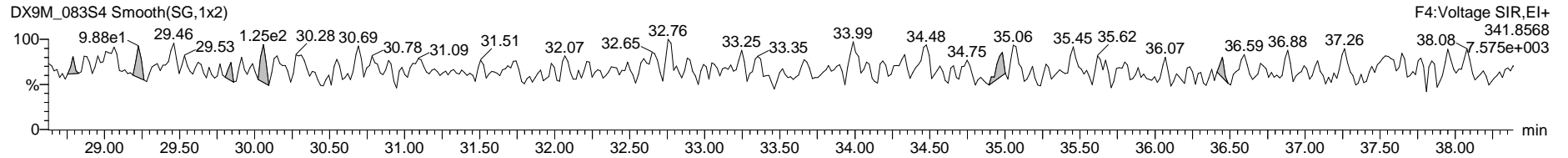
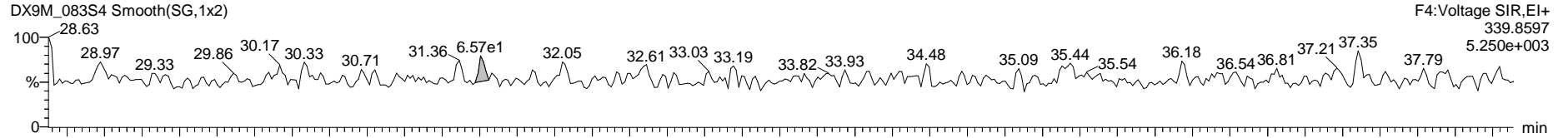
Tetra Lock



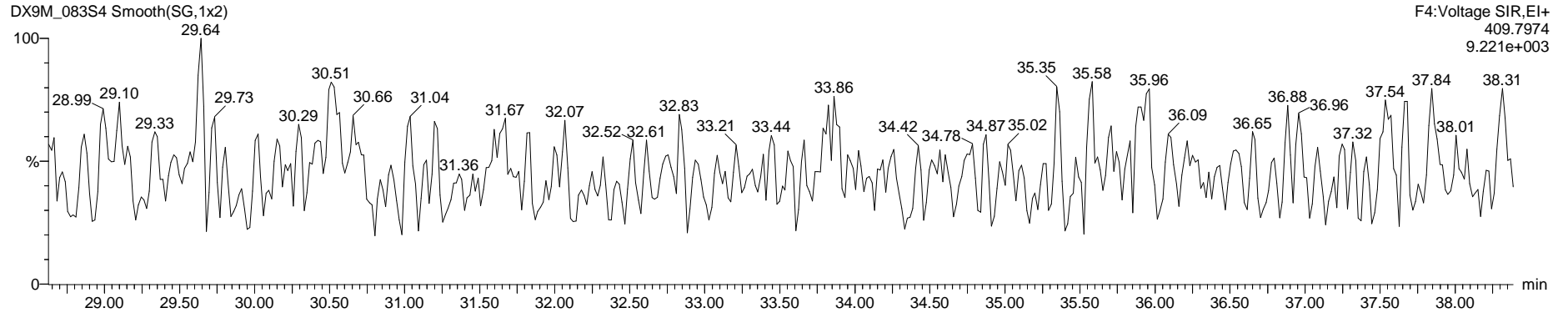
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Name: DX9M_083S4, Date: 10-Jul-2009, Time: 11:12:16, ID: WG29271-101,I2,Blank, Description: 1,WG29271,1.0/20uL

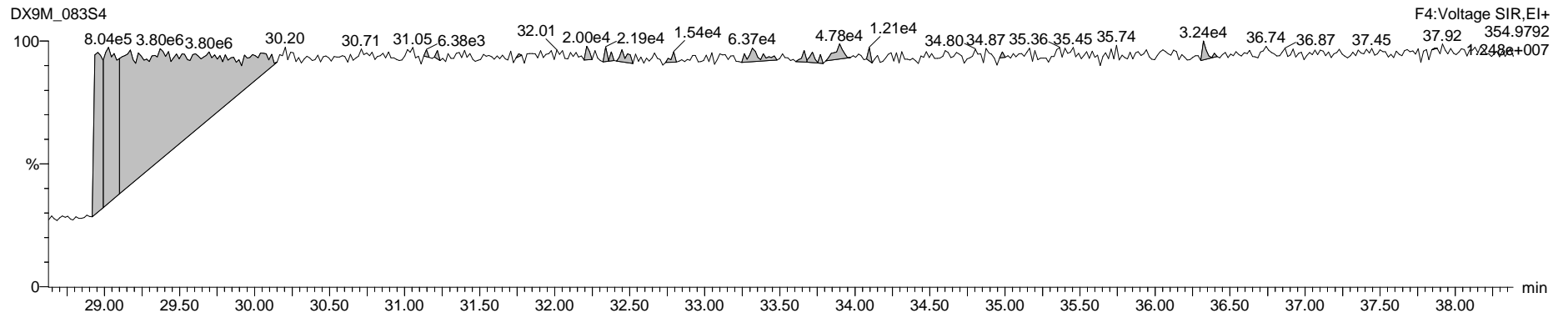
Total Penta-Furans



Hepta DPE



Penta Lock

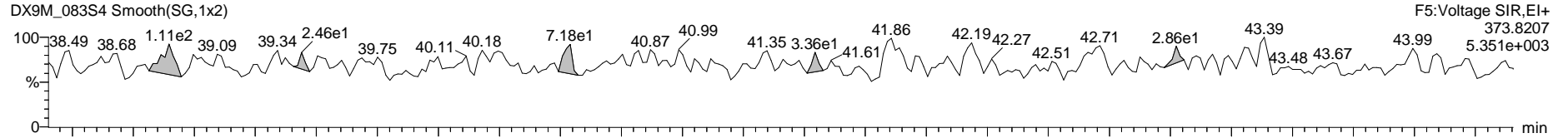


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

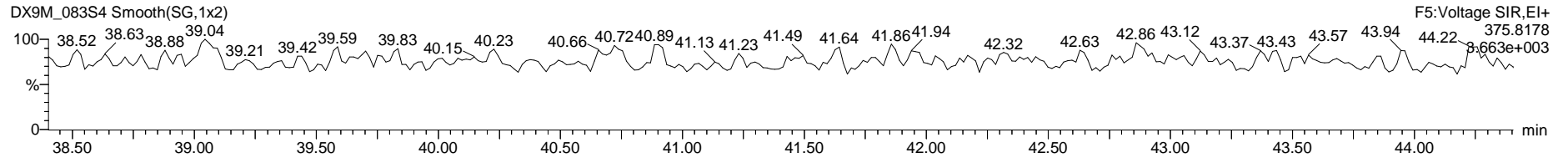
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Total Hexa-Furans

DX9M_083S4 Smooth(SG,1x2)

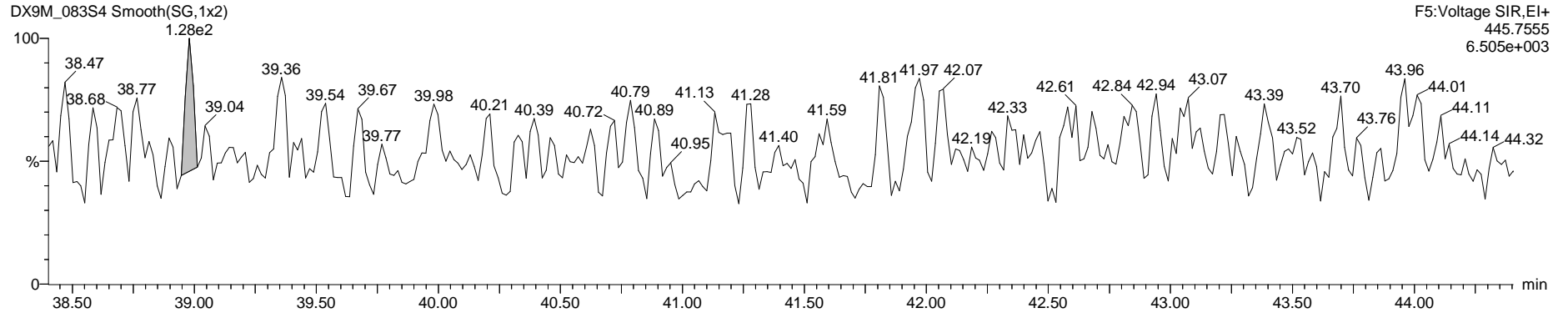


DX9M_083S4 Smooth(SG,1x2)



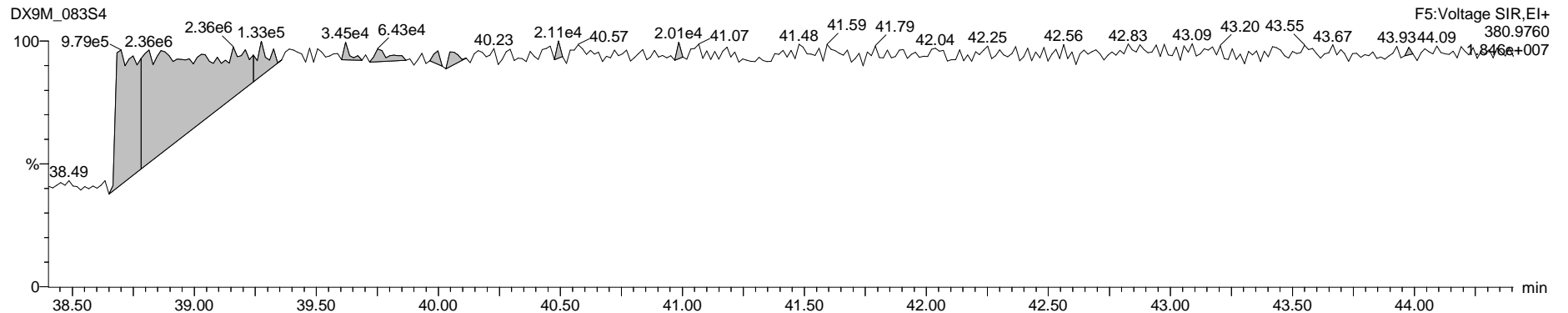
Octa DPE

DX9M_083S4 Smooth(SG,1x2)



Hexa Lock

DX9M_083S4

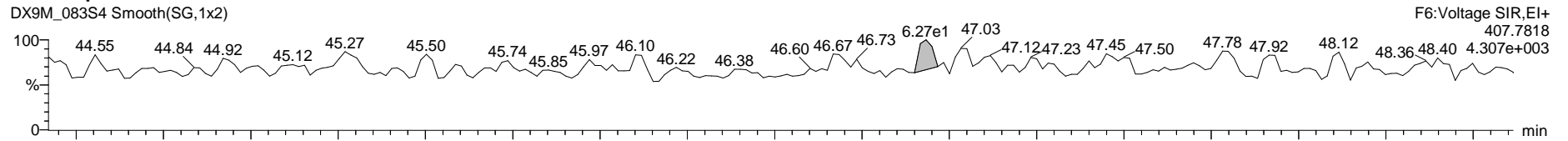


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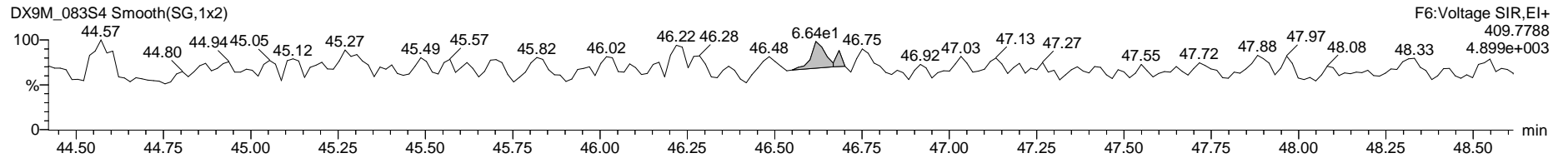
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Total Hepta-Furans

DX9M_083S4 Smooth(SG,1x2)

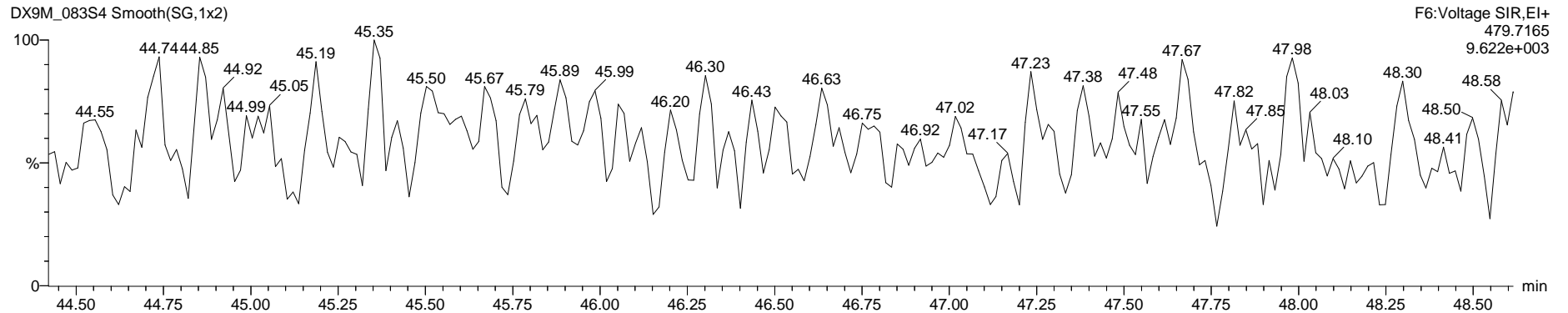


DX9M_083S4 Smooth(SG,1x2)



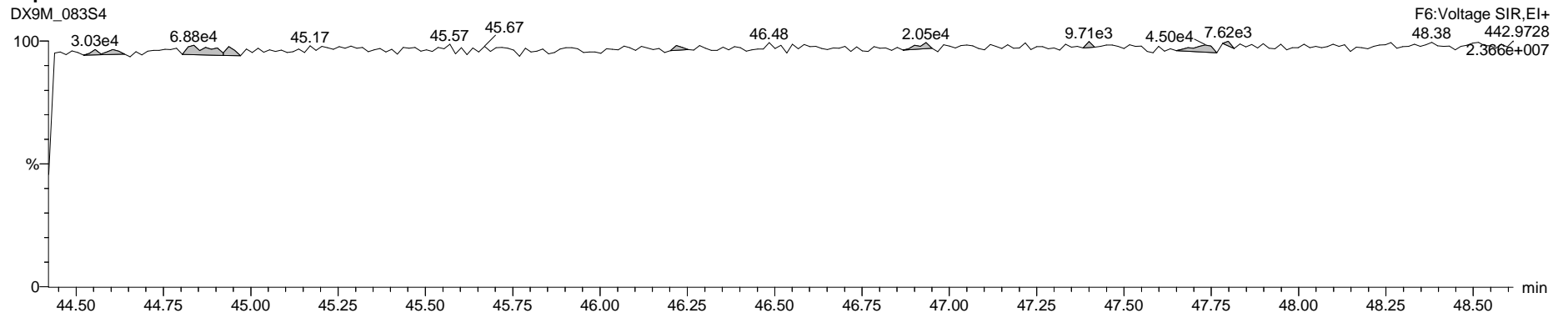
Nona DPE

DX9M_083S4 Smooth(SG,1x2)



Hepta Lock

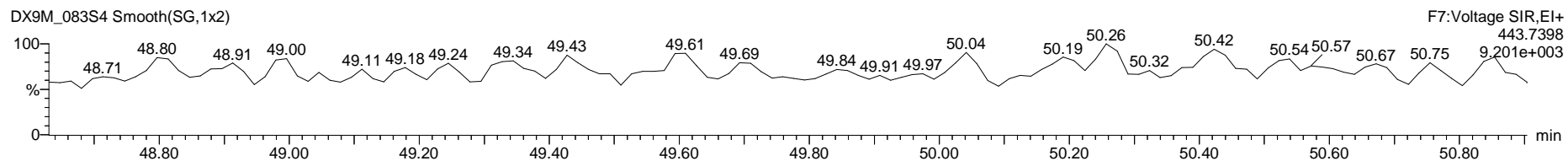
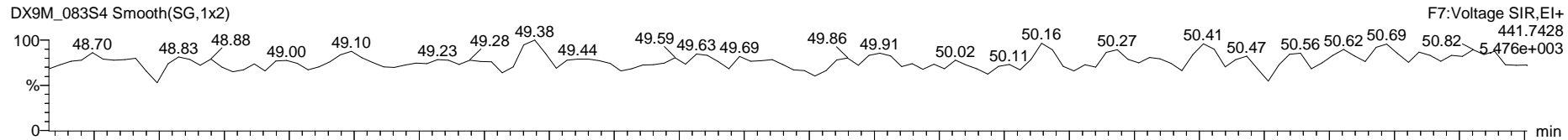
DX9M_083S4



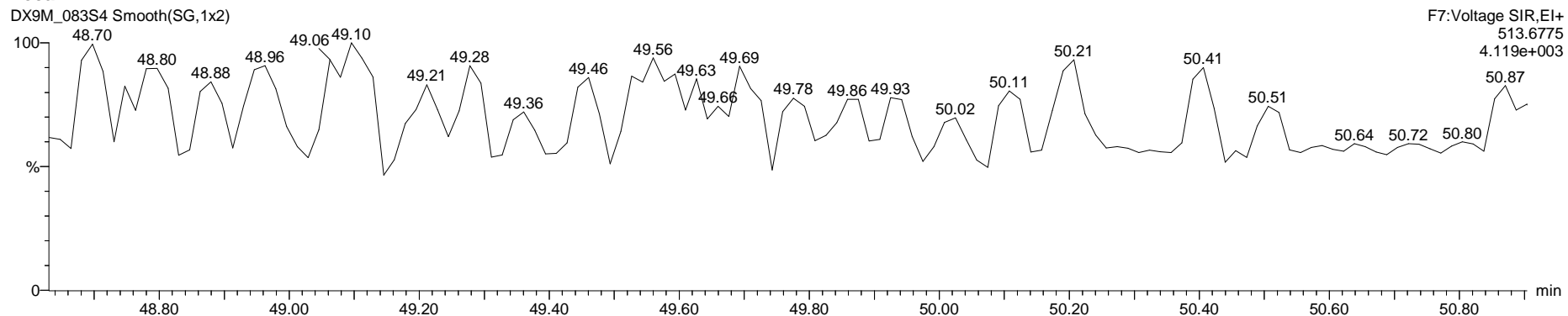
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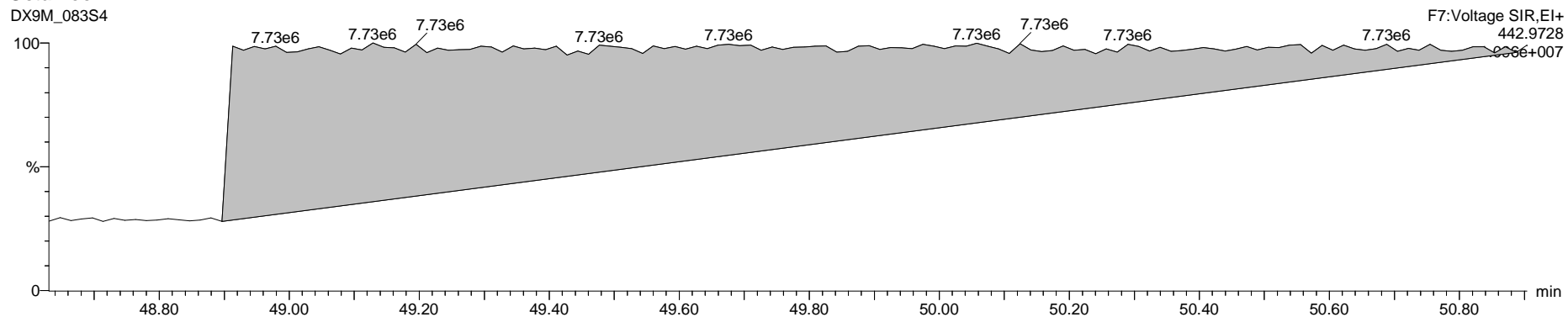
OCDF



Deca DPE



Octa Lock



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_082E-C.qld

Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

	Name	Sample Size	Resp	Ratio	falls?	RT	<i>ng/ml</i> Conc	DL	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	20.000	8.57e4	0.77	NO	25.31	11.438	0.0342		5.49e2	4.24e2
2	1,2,3,7,8-PeCDF	20.000	2.95e5	1.49	NO	33.64	47.580	0.0457		4.74e2	4.67e2
3	2,3,4,7,8-PeCDF	20.000	2.89e5	1.52	NO	35.40	48.900	0.0427		4.74e2	4.67e2
4	1,2,3,4,7,8-HxCDF	20.000	2.43e5	1.22	NO	40.74	52.406	0.0554		7.25e2	6.12e2
5	1,2,3,6,7,8-HxCDF	20.000	2.70e5	1.20	NO	40.92	50.647	0.0509		7.25e2	6.12e2
6	2,3,4,6,7,8-HxCDF	20.000	2.43e5	1.19	NO	41.86	54.637	0.0604		7.25e2	6.12e2
7	1,2,3,7,8,9-HxCDF	20.000	2.14e5	1.15	NO	42.89	56.604	0.0709		7.25e2	6.12e2
8	1,2,3,4,6,7,8-HpCDF	20.000	2.13e5	1.02	NO	45.32	56.565	0.0712		7.72e2	7.77e2
9	1,2,3,4,7,8,9-HpCDF	20.000	1.66e5	0.98	NO	47.08	54.562	0.0919		7.72e2	7.77e2
10	OCDF	20.000	2.90e5	0.90	NO	50.32	107.123	0.0474		3.01e2	4.16e2
11	2,3,7,8-TCDD	20.000	6.78e4	0.78	NO	26.55	10.243	0.0321		3.49e2	4.45e2
12	1,2,3,7,8-PeCDD	20.000	2.43e5	0.62	NO	36.21	51.013	0.0582		6.88e2	4.52e2
13	1,2,3,4,7,8-HxCDD	20.000	2.15e5	1.25	NO	42.12	55.762	0.0608		6.18e2	6.49e2
14	1,2,3,6,7,8-HxCDD	20.000	2.27e5	1.18	NO	42.27	55.259	0.0597		6.18e2	6.49e2
15	1,2,3,7,8,9-HxCDD	20.000	2.21e5	1.20	NO	42.68	56.564	0.0614		6.18e2	6.49e2
16	1,2,3,4,6,7,8-HpCDD	20.000	1.71e5	1.03	NO	46.68	48.548	0.0369		3.63e2	3.81e2
17	OCDD	20.000	2.92e5	0.88	NO	50.24	99.664	0.0716		4.40e2	7.29e2
18	13C-2,3,7,8-TCDF	20.000	9.80e5	0.78	NO	25.29	78.974	0.0669	79.0	1.72e3	1.61e3
19	13C-1,2,3,7,8-PeCDF	20.000	7.44e5	1.53	NO	33.63	85.911	0.0893	85.9	1.78e3	1.32e3
20	13C-2,3,4,7,8-PeCDF	20.000	6.98e5	1.51	NO	35.38	82.839	0.0918	82.8	1.78e3	1.32e3
21	13C-1,2,3,4,7,8-HxCDF	20.000	4.83e5	0.50	NO	40.72	75.761	0.1368	75.8	2.73e3	1.83e3
22	13C-1,2,3,6,7,8-HxCDF	20.000	5.83e5	0.51	NO	40.89	78.568	0.1176	78.6	2.73e3	1.83e3
23	13C-2,3,4,6,7,8-HxCDF	20.000	5.13e5	0.50	NO	41.82	75.368	0.1281	75.4	2.73e3	1.83e3
24	13C-1,2,3,7,8,9-HxCDF	20.000	4.67e5	0.50	NO	42.86	73.587	0.1373	73.6	2.73e3	1.83e3
25	13C-1,2,3,4,6,7,8-HpCDF	20.000	3.56e5	0.43	NO	45.30	69.763	0.0825	69.8	8.84e2	1.32e3
26	13C-1,2,3,4,7,8,9-HpCDF	20.000	3.17e5	0.43	NO	47.07	67.493	0.0895	67.5	8.84e2	1.32e3
27	13C-2,3,7,8-TCDD	20.000	7.39e5	0.78	NO	26.51	77.569	0.1251	77.6	2.75e3	2.03e3
28	13C-1,2,3,7,8-PeCDD	20.000	5.42e5	0.62	NO	36.18	87.917	0.0859	87.9	1.44e3	6.89e2
29	13C-1,2,3,4,7,8-HxCDD	20.000	4.72e5	1.29	NO	42.10	77.412	0.0675	77.4	9.08e2	1.24e3
30	13C-1,2,3,6,7,8-HxCDD	20.000	5.41e5	1.20	NO	42.25	76.057	0.0578	76.1	9.08e2	1.24e3
31	13C-1,2,3,4,6,7,8-HpCDD	20.000	3.66e5	1.02	NO	46.67	68.566	0.0677	68.6	1.21e3	6.84e2
32	13C-OCDD	20.000	6.31e5	0.86	NO	50.22	104.032	0.0235	52.0	4.82e2	2.64e2
33	13C-1,2,3,4-TCDD	20.000	8.74e5	0.79	NO	26.18	2.468	0.0034	2.5	2.75e3	2.03e3
34	13C-1,2,3,7,8,9-HxCDD	20.000	6.25e5	1.23	NO	42.66	2.776	0.0018	2.8	9.08e2	1.24e3
35	37Cl-2,3,7,8-TCDD	20.000	8.90e4			26.55	9.803	0.0265	98.0		9.65e2
36	Total Tetra-Furans	20.000					40.763	0.0342			4.24e2
37	Total Tetra-Dioxins	20.000					41.255	0.0321			4.45e2
38	Total Penta-Furans	20.000					149.435	0.0446			4.67e2
39	Total Penta-Dioxins	20.000					104.194	0.0582			4.52e2
40	Total Hexa-Furans	20.000					215.664	0.0542			6.12e2
41	Total Hexa-Dioxins	20.000					171.291	0.0579			6.49e2
42	Total Hepta-Furans	20.000					111.950	0.0769			7.77e2
43	Total Hepta-Dioxins	20.000					49.126	0.0369			3.81e2
44	Hexa DPE	1.000	8.23e1			23.44					2.05e2
45	Hepta DPE	1.000	8.29e1			37.14					1.56e2
46	Octa DPE	1.000	1.21e2			42.42					2.25e2
47	Nona DPE	1.000	3.89e1			45.95					1.99e2
48	Deca DPE	1.000	1.02e2			50.46					6.37e2
49	Tetra Lock	1.000									6.62e4
50	Penta Lock	1.000	1.82e4			30.08					3.94e4
51	Hexa Lock	1.000	1.47e5			40.74					7.10e4
52	Hepta Lock	1.000	1.60e4			45.64					7.19e4
53	Octa Lock	1.000	3.50e4			49.64					7.71e4

PV WL 13-JUL-2009

su'd BRA 22-Jul-09



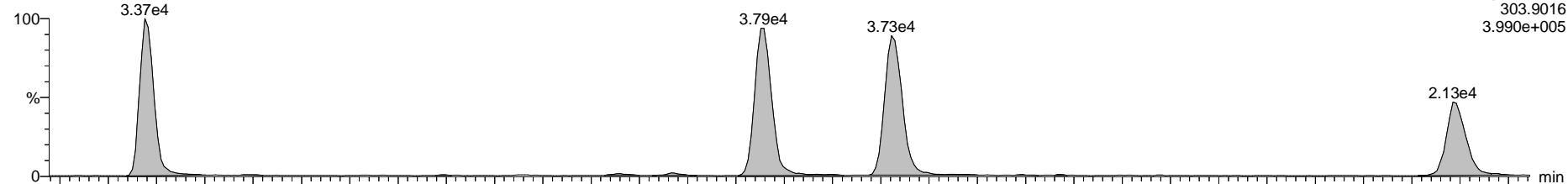
Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

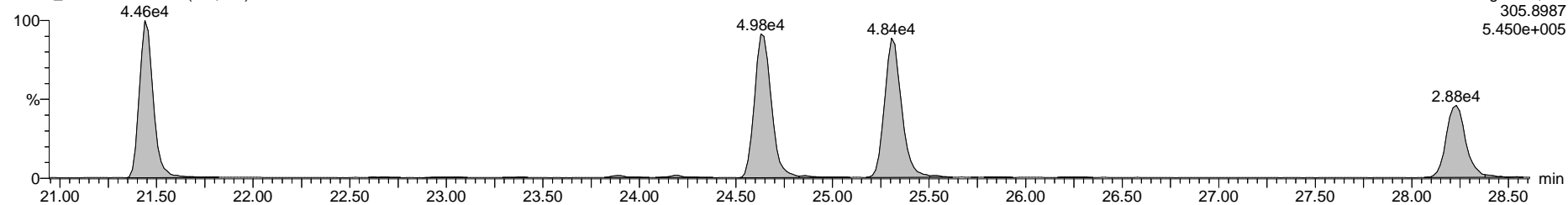
Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_082ES24 Smooth(SG,1x2)

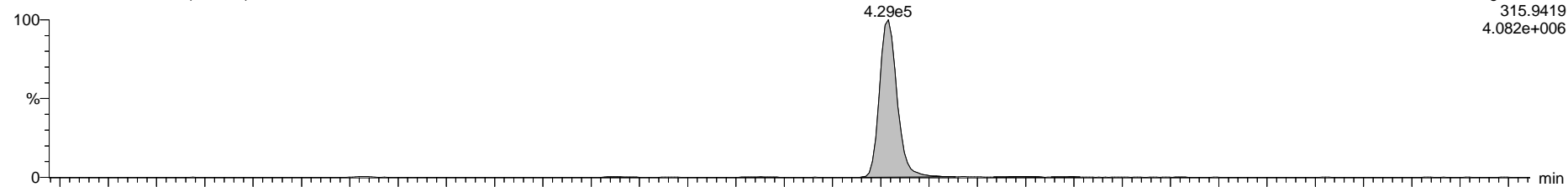


DX9M_082ES24 Smooth(SG,1x2)

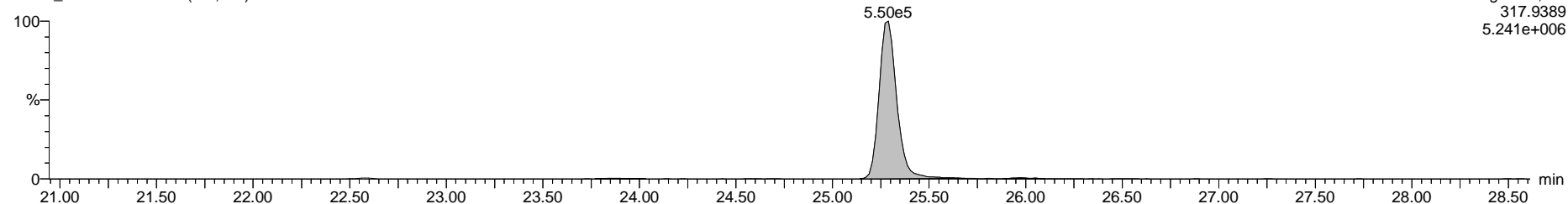


13C-2,3,7,8-TCDF

DX9M_082ES24 Smooth(SG,1x2)



DX9M_082ES24 Smooth(SG,1x2)

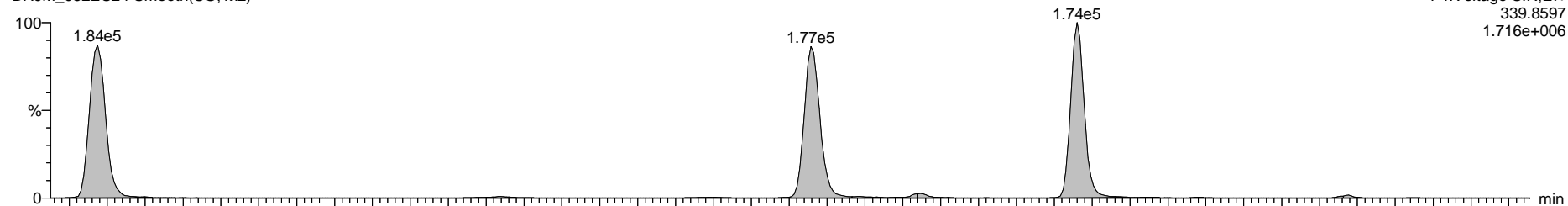


Axys Analytical Services, Ltd.

Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

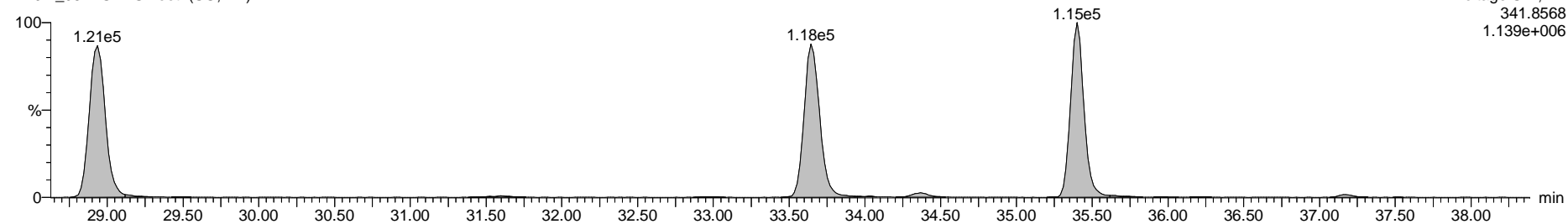
Total Penta-Furans

DX9M_082ES24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
1.716e+006

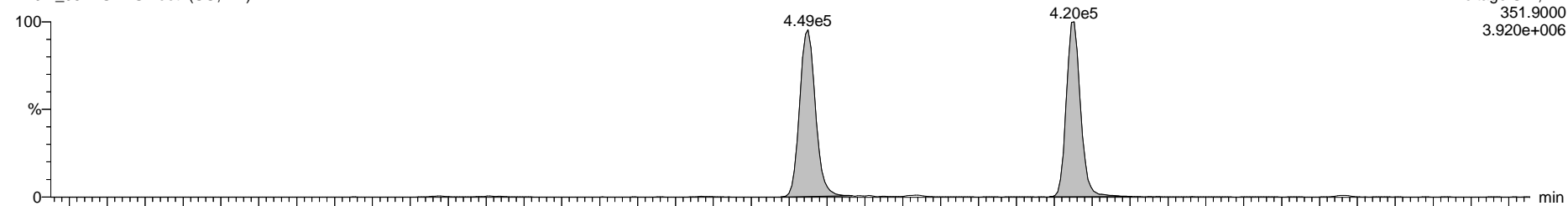
DX9M_082ES24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
1.139e+006

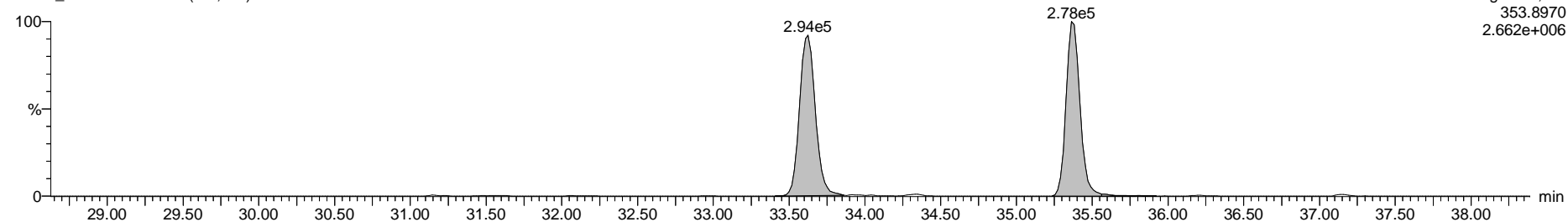
13C-1,2,3,7,8-PeCDF

DX9M_082ES24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
3.920e+006

DX9M_082ES24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8970
2.662e+006

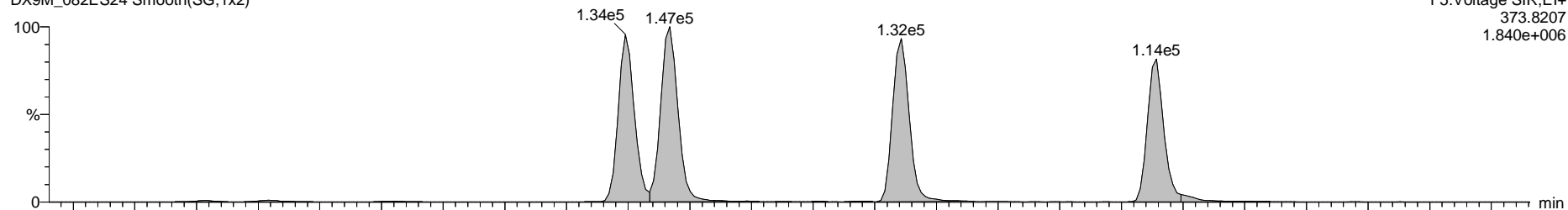


Axys Analytical Services, Ltd.

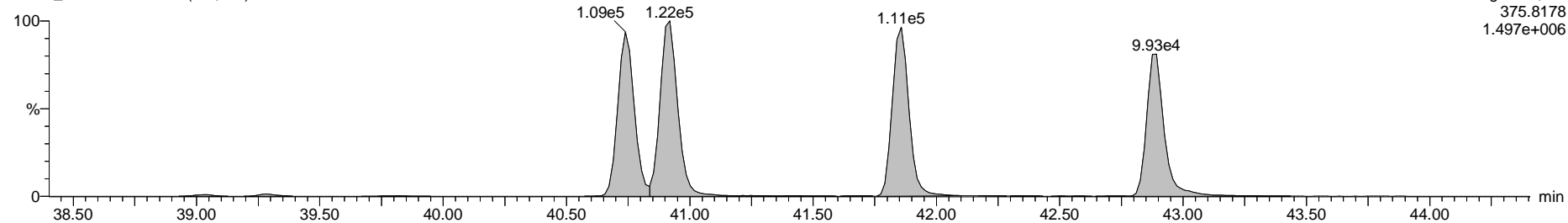
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Total Hexa-Furans

DX9M_082ES24 Smooth(SG,1x2)

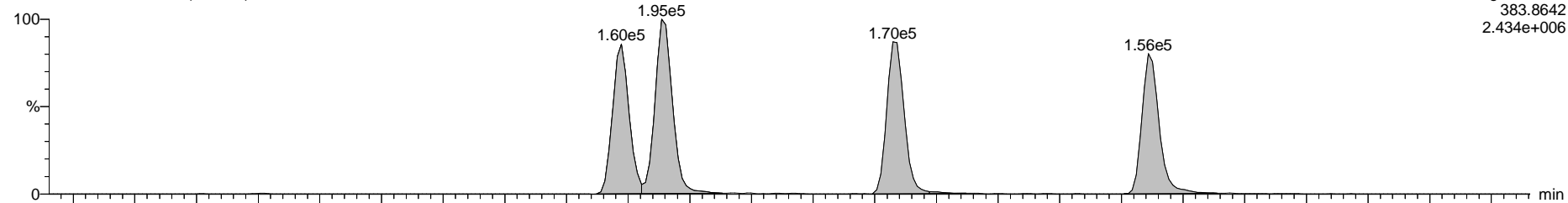


DX9M_082ES24 Smooth(SG,1x2)

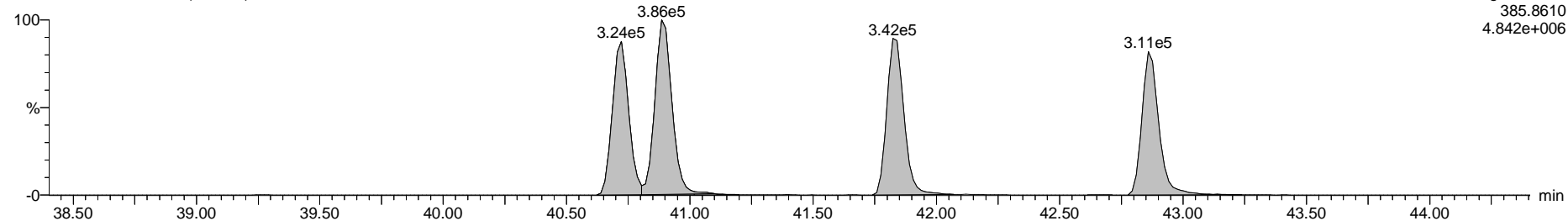


13C-1,2,3,4,7,8-HxCDF

DX9M_082ES24 Smooth(SG,1x2)



DX9M_082ES24 Smooth(SG,1x2)

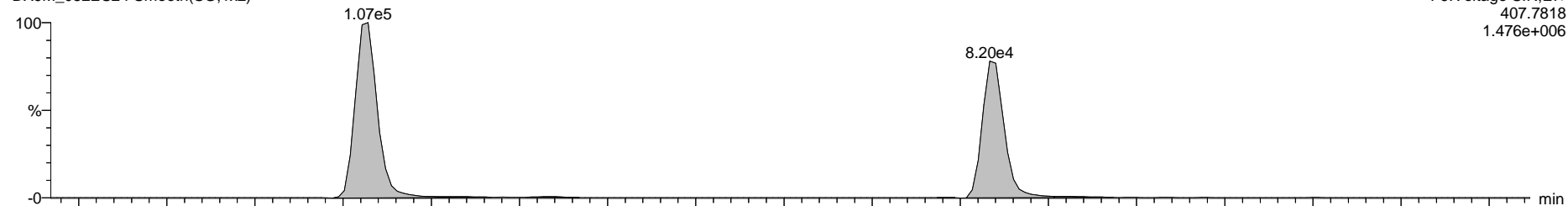


Axys Analytical Services, Ltd.

Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

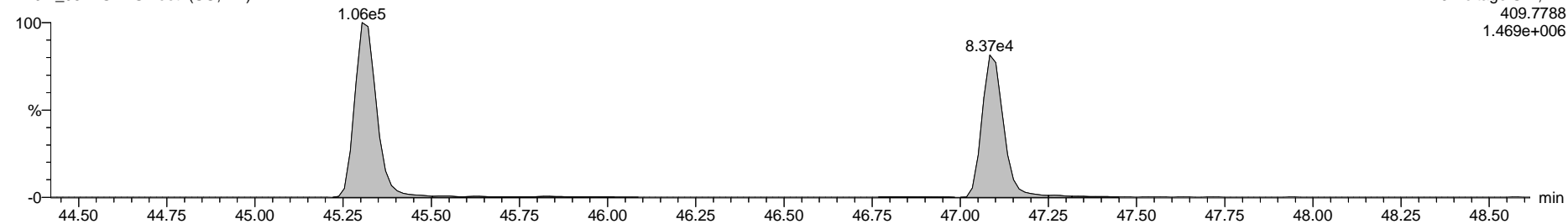
Total Hepta-Furans

DX9M_082ES24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
1.476e+006

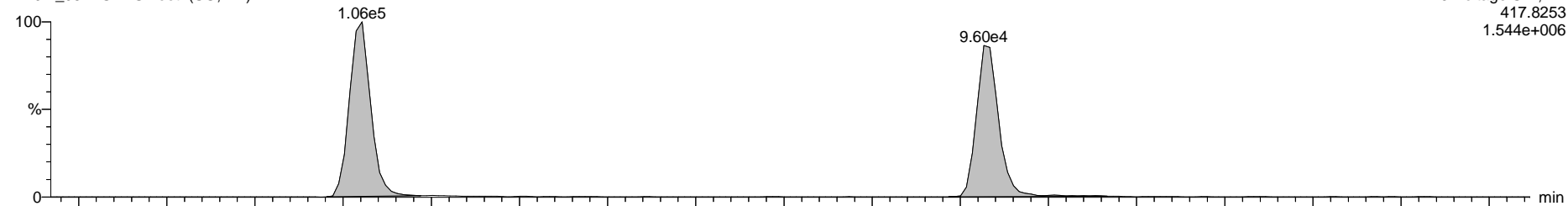
DX9M_082ES24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
1.469e+006

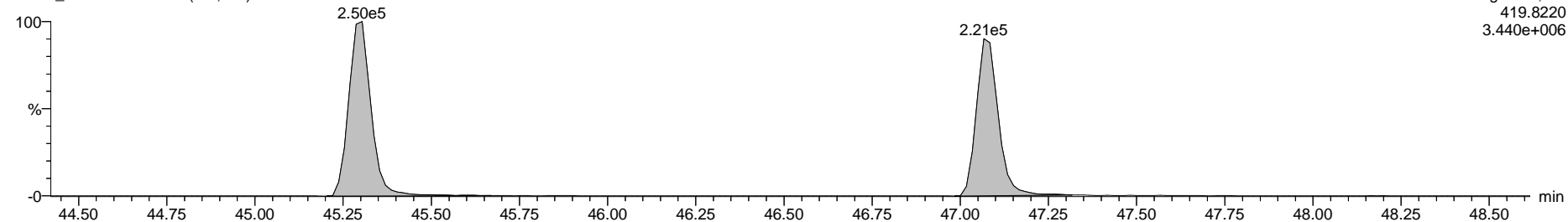
13C-1,2,3,4,6,7,8-HpCDF

DX9M_082ES24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
1.544e+006

DX9M_082ES24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
3.440e+006

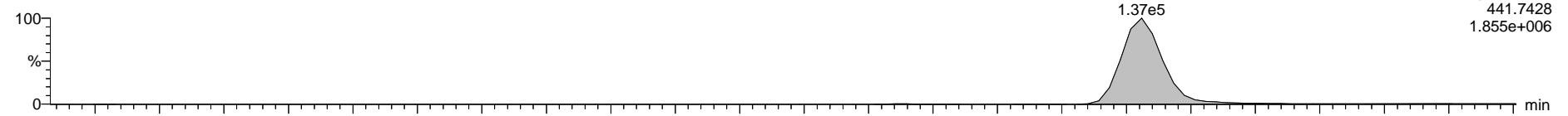


Axys Analytical Services, Ltd.

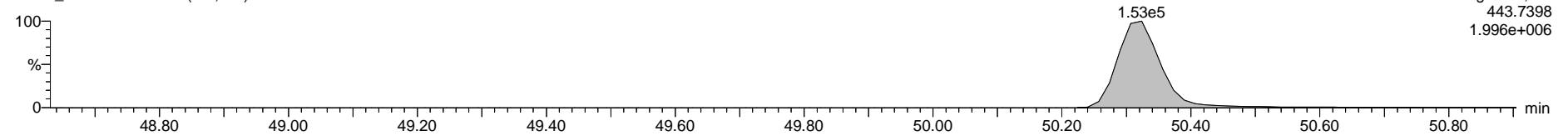
Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_082ES24 Smooth(SG,1x2)

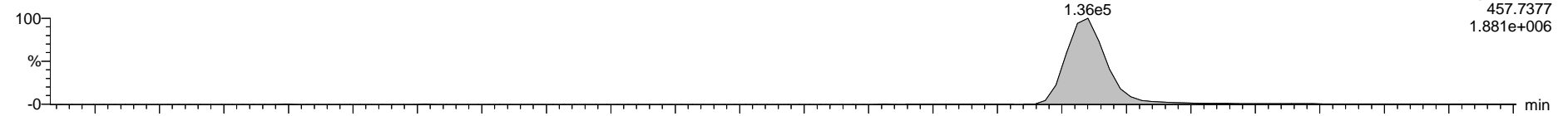


DX9M_082ES24 Smooth(SG,1x2)

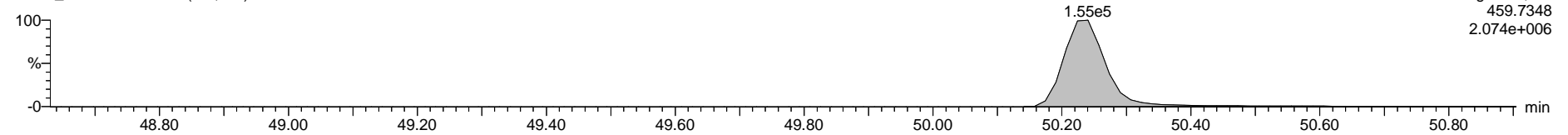


OCDD

DX9M_082ES24 Smooth(SG,1x2)

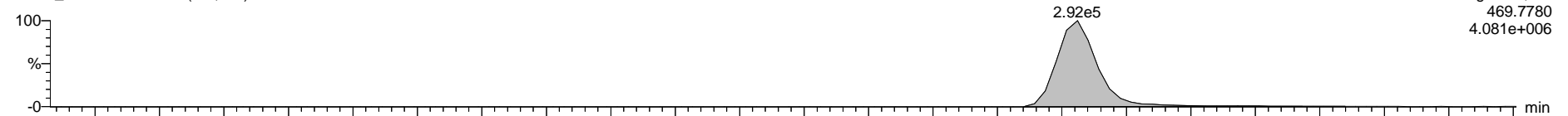


DX9M_082ES24 Smooth(SG,1x2)

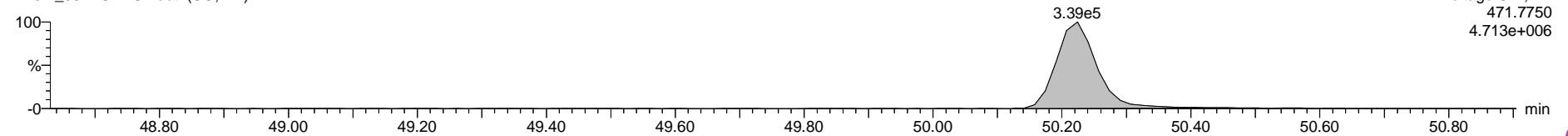


13C-OCDD

DX9M_082ES24 Smooth(SG,1x2)



DX9M_082ES24 Smooth(SG,1x2)

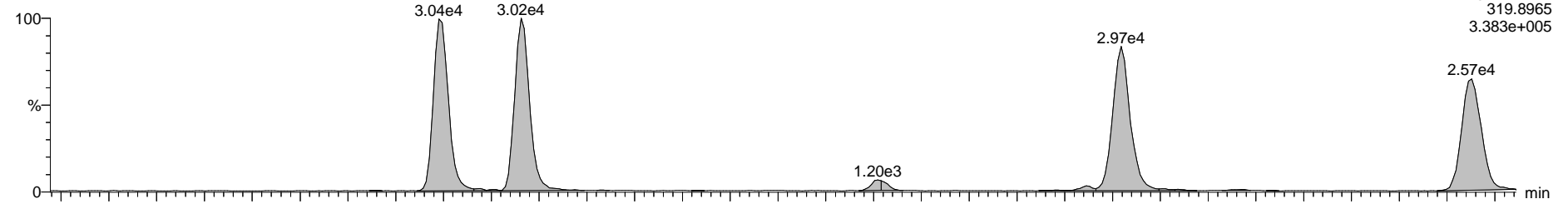


Axys Analytical Services, Ltd.

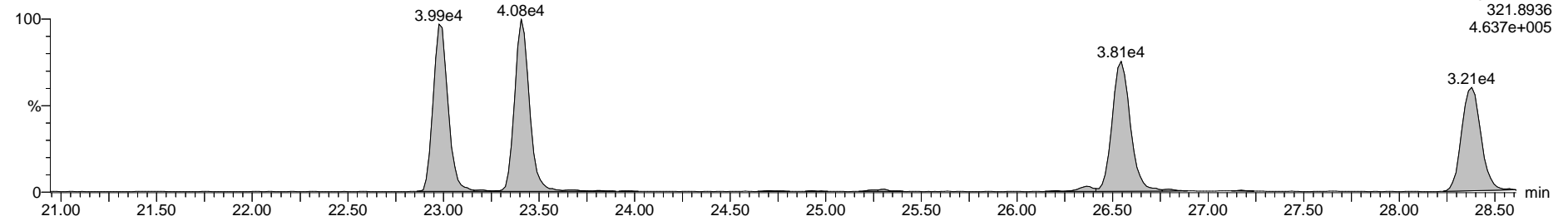
Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_082ES24 Smooth(SG,1x2)

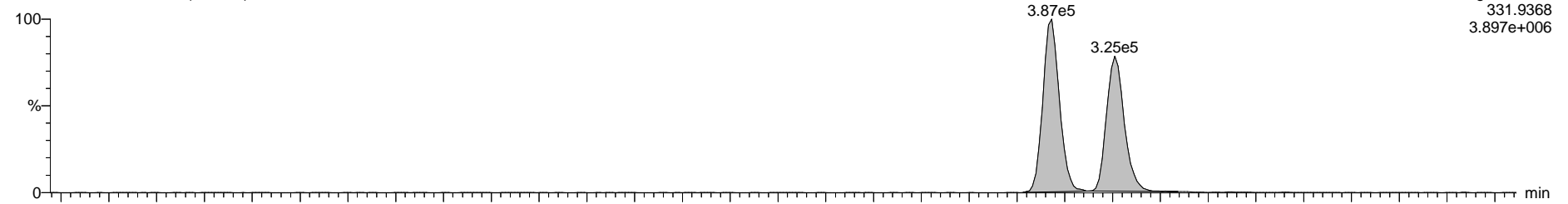


DX9M_082ES24 Smooth(SG,1x2)

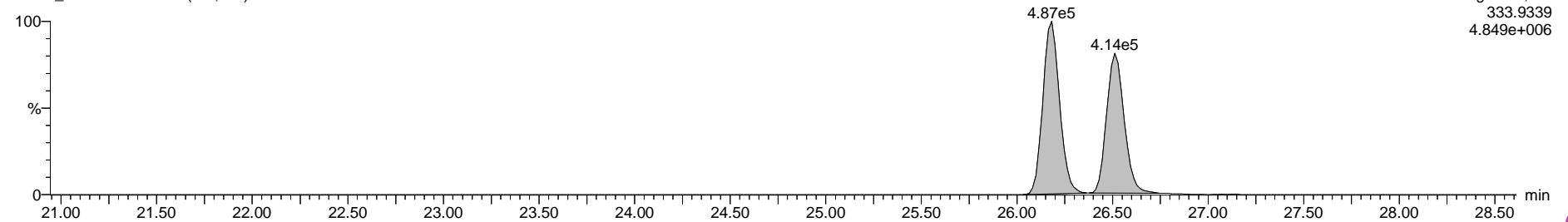


13C-2,3,7,8-TCDD

DX9M_082ES24 Smooth(SG,1x2)



DX9M_082ES24 Smooth(SG,1x2)

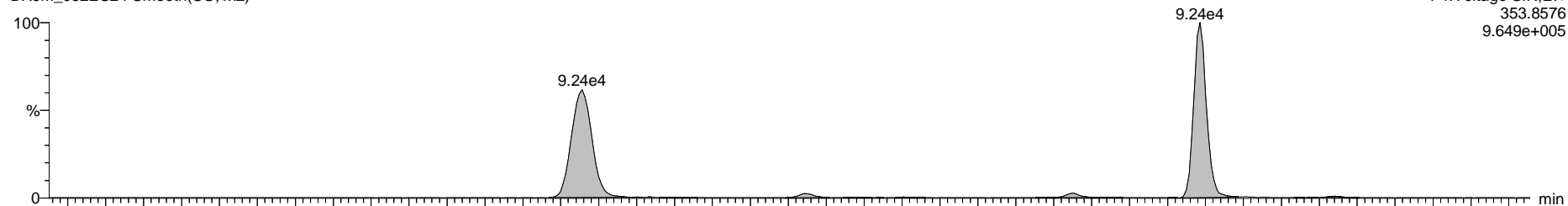


Axys Analytical Services, Ltd.

Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

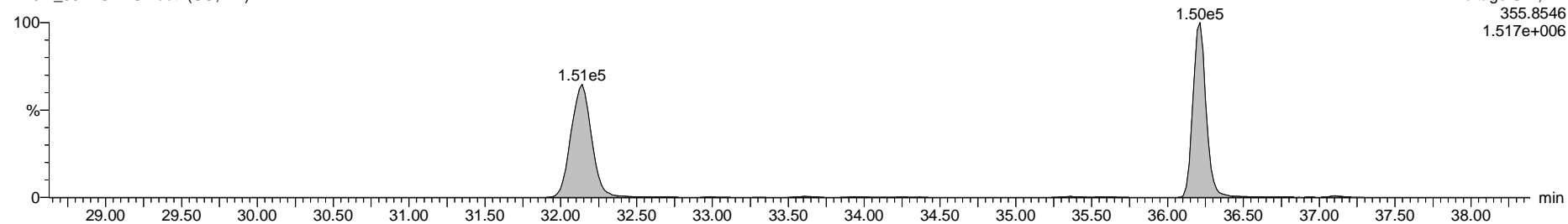
Total Penta-Dioxins

DX9M_082ES24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8576
9.649e+005

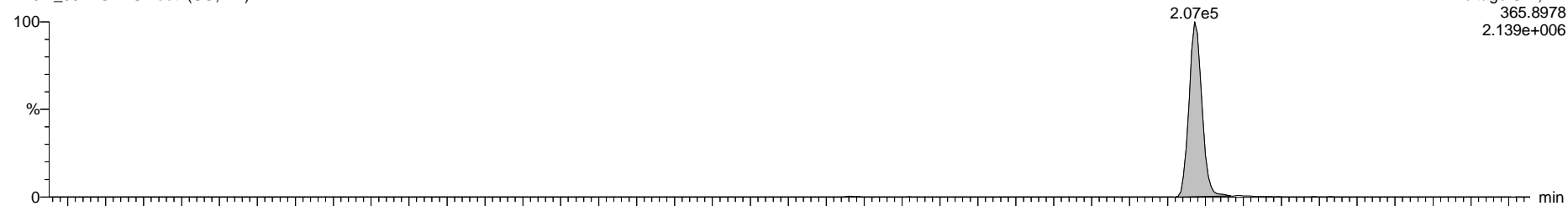
DX9M_082ES24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
355.8546
1.517e+006

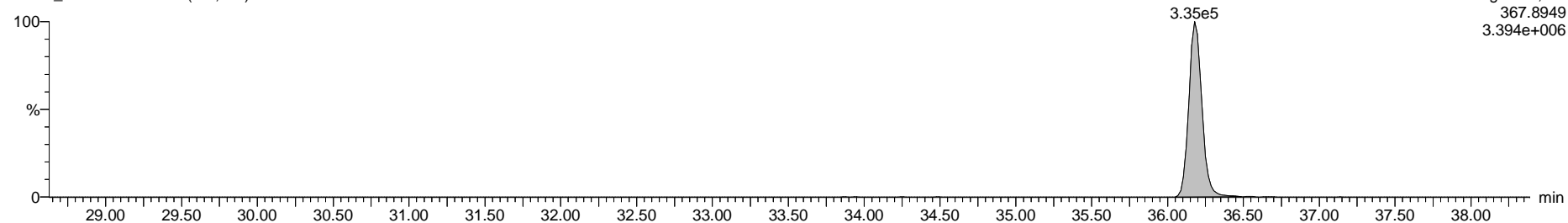
13C-1,2,3,7,8-PeCDD

DX9M_082ES24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
365.8978
2.139e+006

DX9M_082ES24 Smooth(SG,1x2)



F4:Voltage SIR,EI+
367.8949
3.394e+006

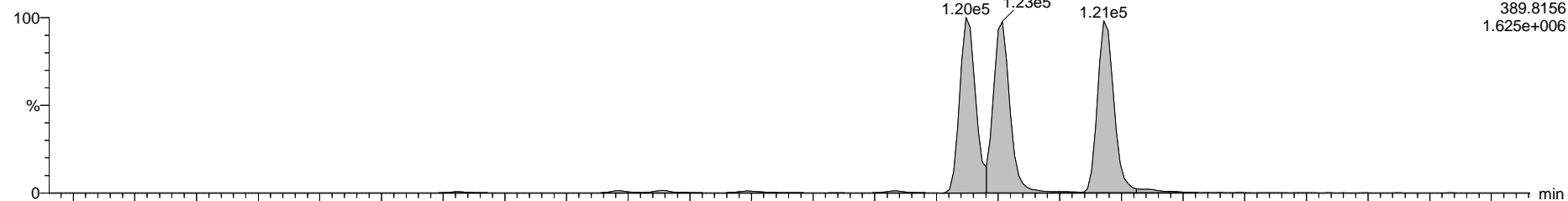


Axys Analytical Services, Ltd.

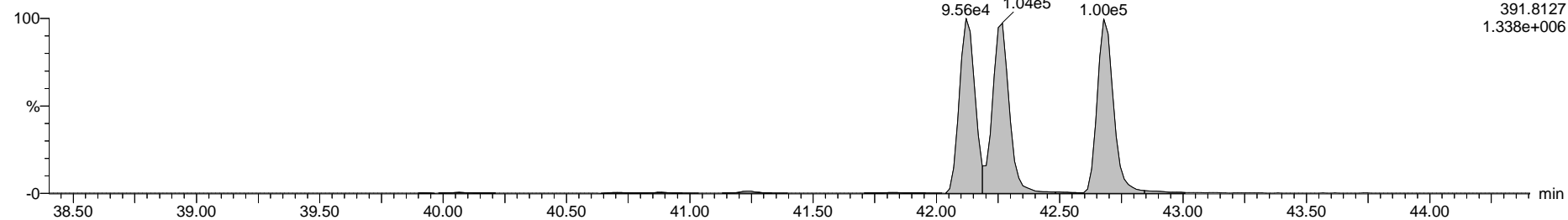
Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_082ES24 Smooth(SG,1x2)

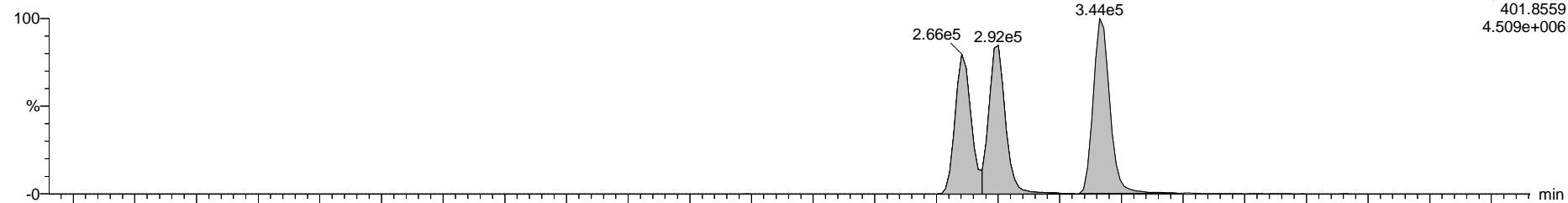


DX9M_082ES24 Smooth(SG,1x2)

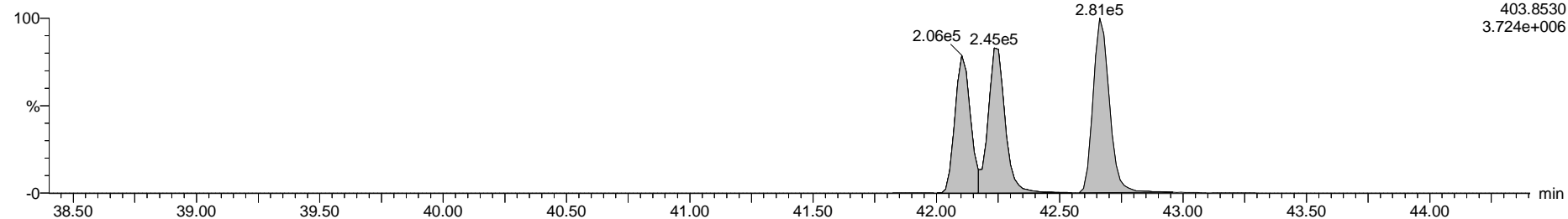


13C-1,2,3,4,7,8-HxCDD

DX9M_082ES24 Smooth(SG,1x2)



DX9M_082ES24 Smooth(SG,1x2)

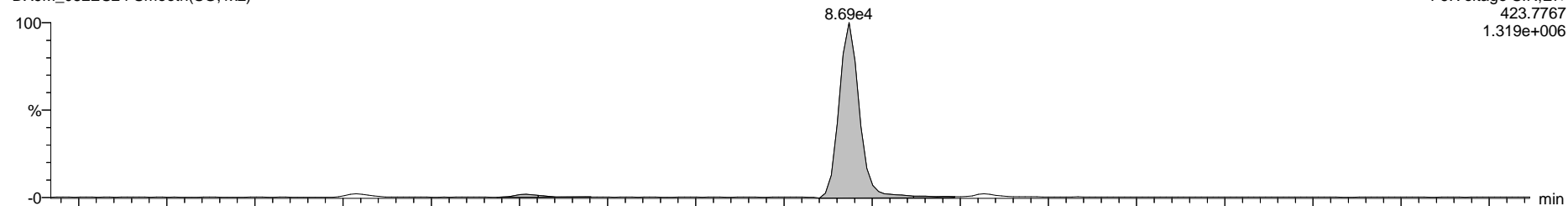


Axys Analytical Services, Ltd.

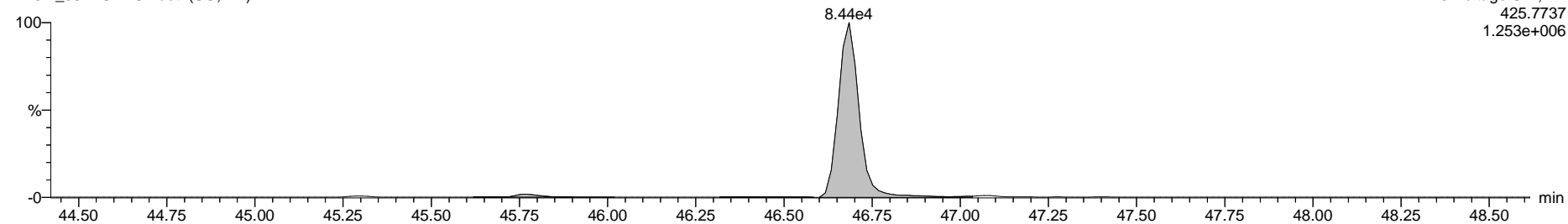
Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

Total Hepta-Dioxins

DX9M_082ES24 Smooth(SG,1x2)

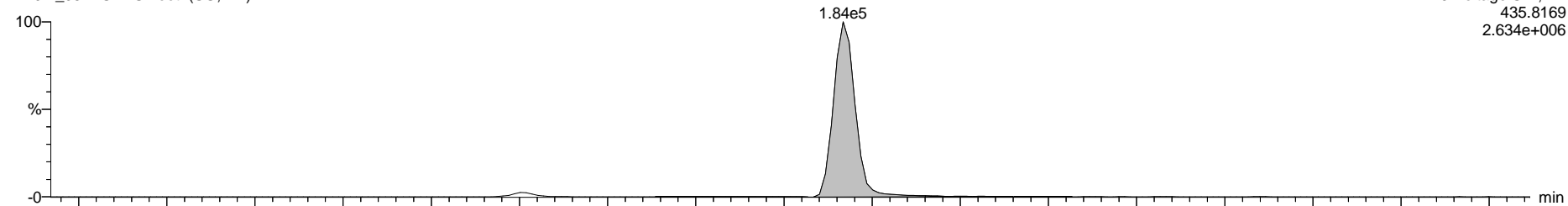


DX9M_082ES24 Smooth(SG,1x2)

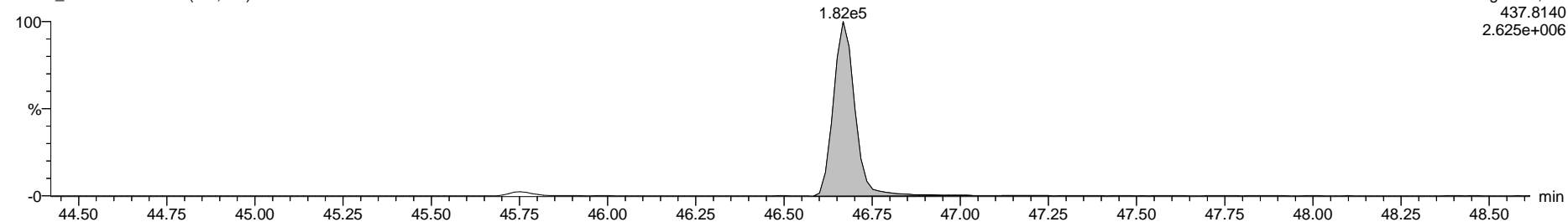


13C-1,2,3,4,6,7,8-HpCDD

DX9M_082ES24 Smooth(SG,1x2)



DX9M_082ES24 Smooth(SG,1x2)

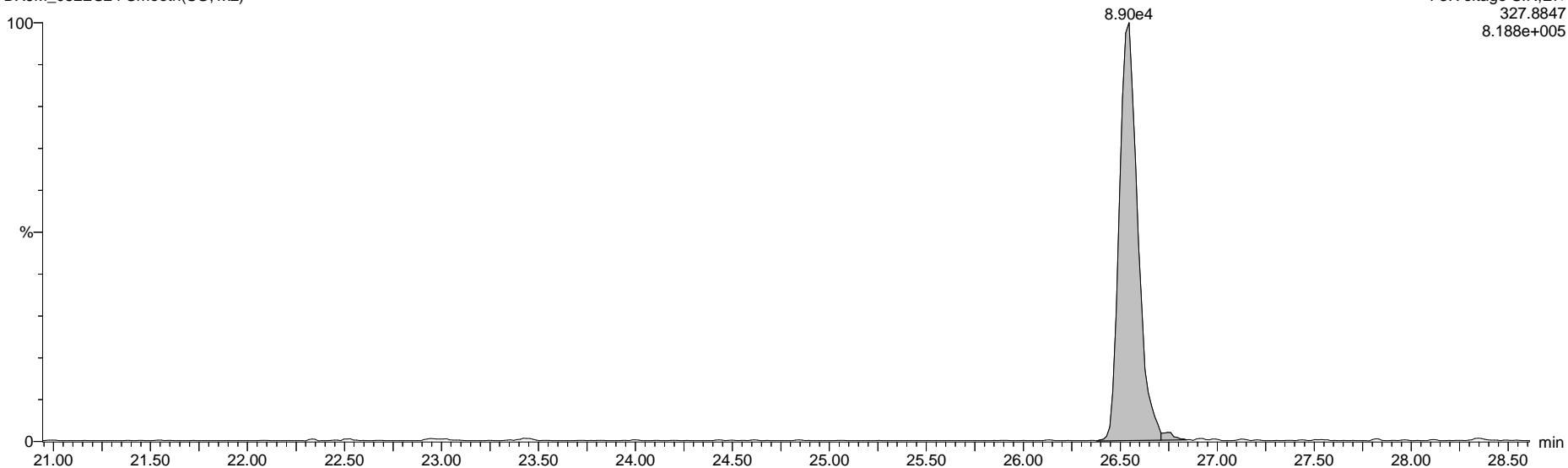


Axys Analytical Services, Ltd.

Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

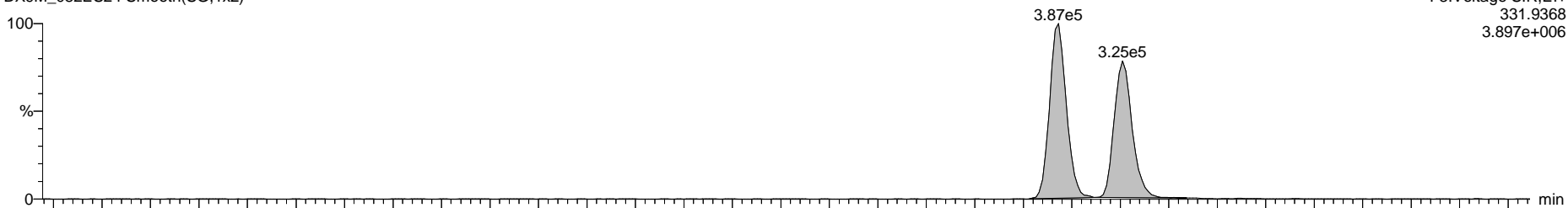
37Cl-2,3,7,8-TCDD

DX9M_082ES24 Smooth(SG,1x2)

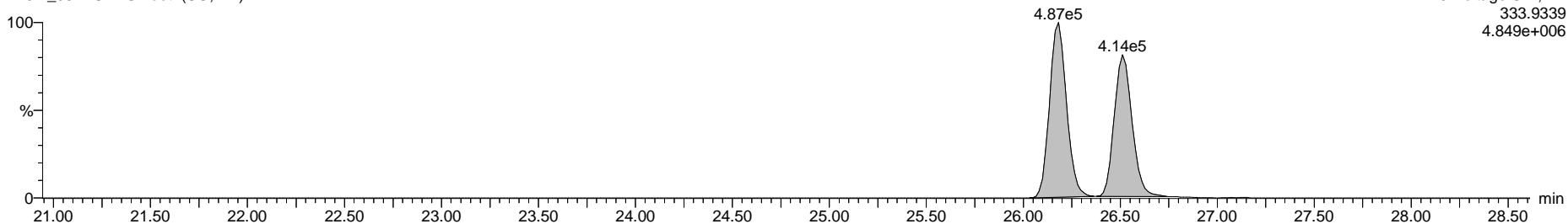


13C-1,2,3,4-TCDD

DX9M_082ES24 Smooth(SG,1x2)



DX9M_082ES24 Smooth(SG,1x2)

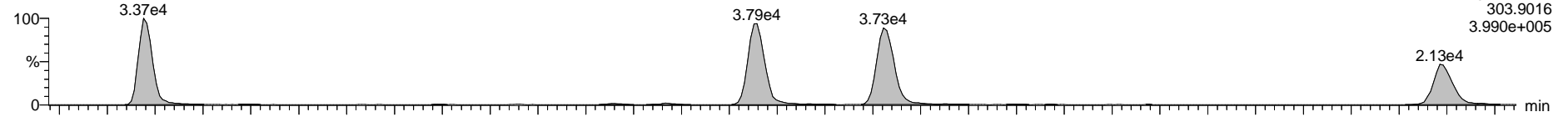


Axys Analytical Services, Ltd.

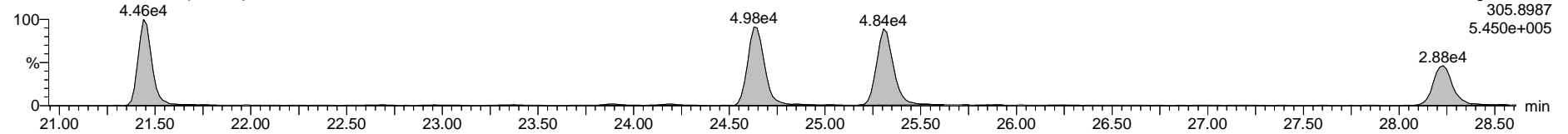
Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_082ES24 Smooth(SG,1x2)

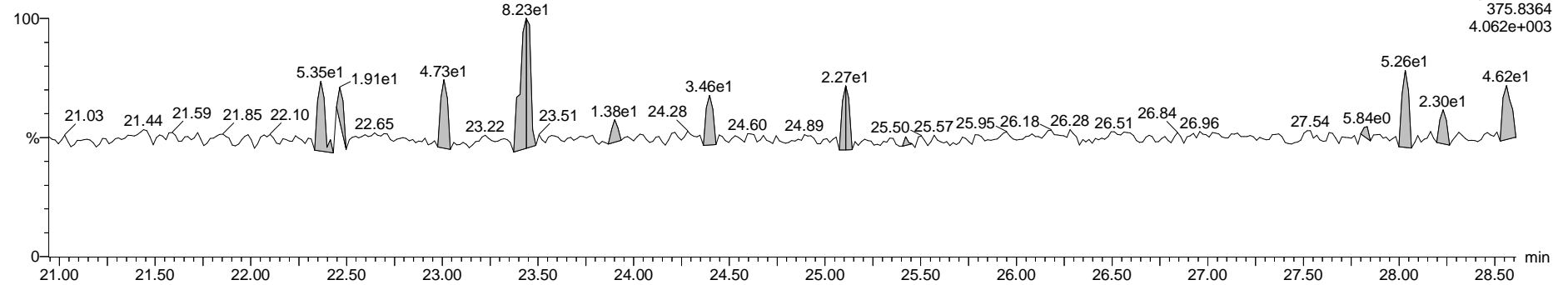


DX9M_082ES24 Smooth(SG,1x2)



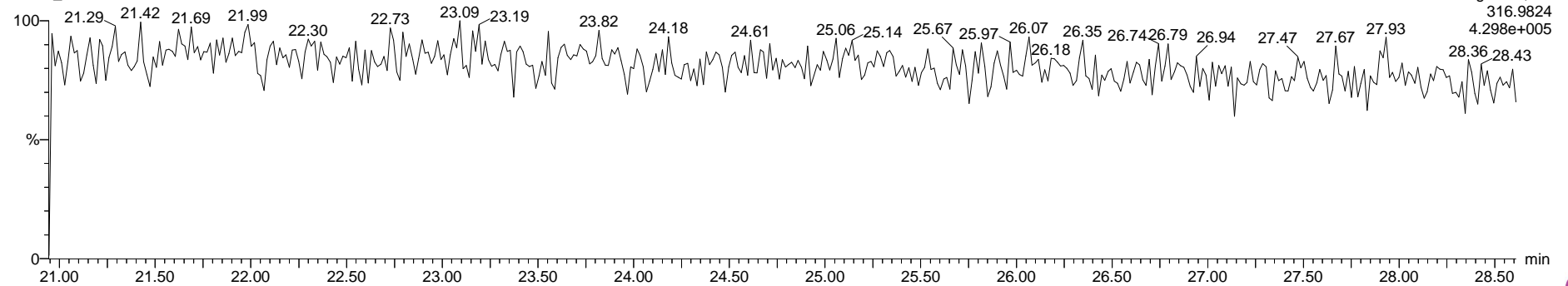
Hexa DPE

DX9M_082ES24 Smooth(SG,1x2)



Tetra Lock

DX9M_082ES24

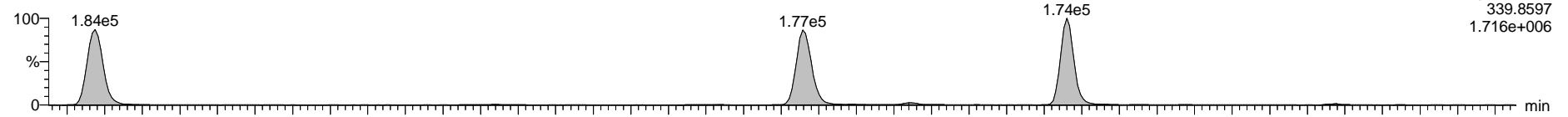


Axys Analytical Services, Ltd.

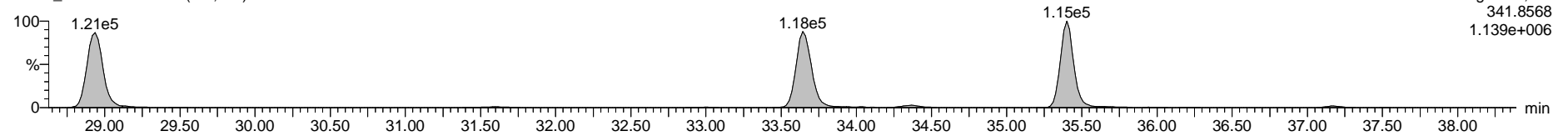
Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_082ES24 Smooth(SG,1x2)

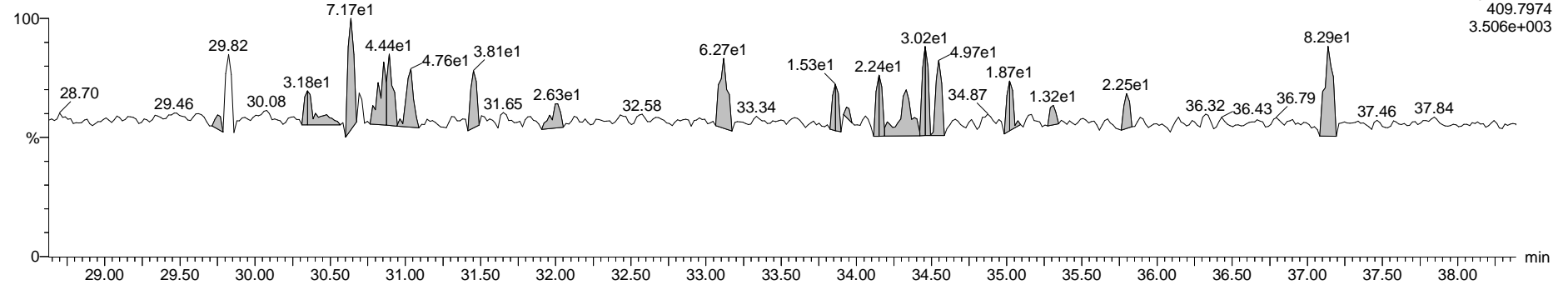


DX9M_082ES24 Smooth(SG,1x2)



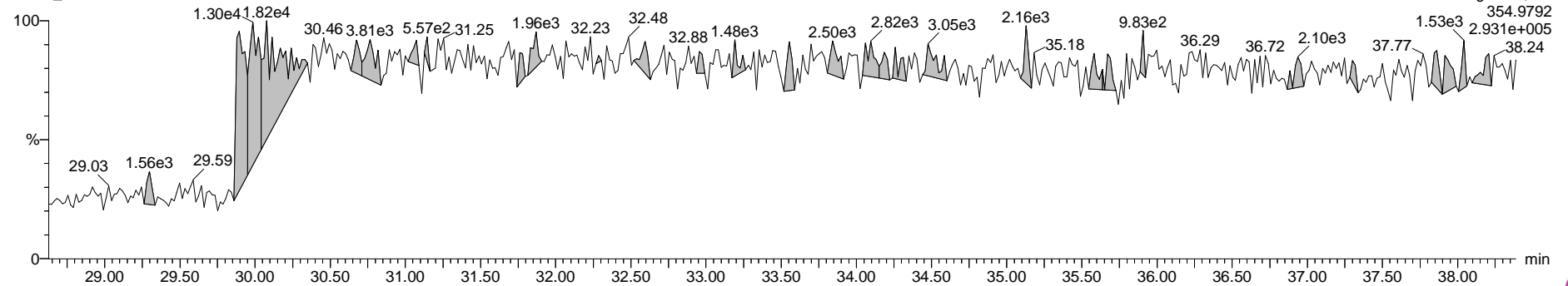
Hepta DPE

DX9M_082ES24 Smooth(SG,1x2)



Penta Lock

DX9M_082ES24

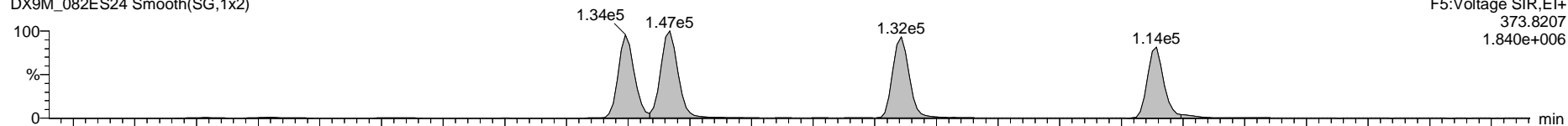


Axys Analytical Services, Ltd.

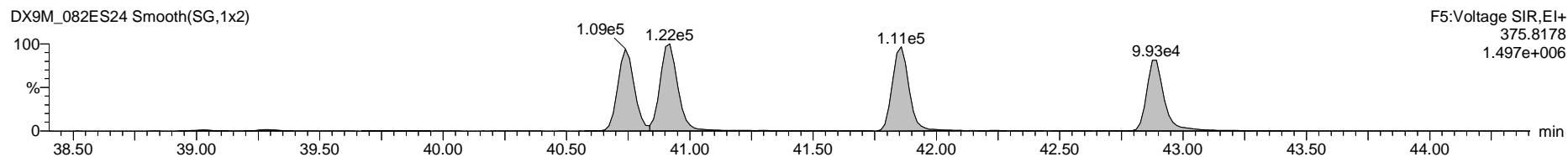
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Total Hexa-Furans

DX9M_082ES24 Smooth(SG,1x2)

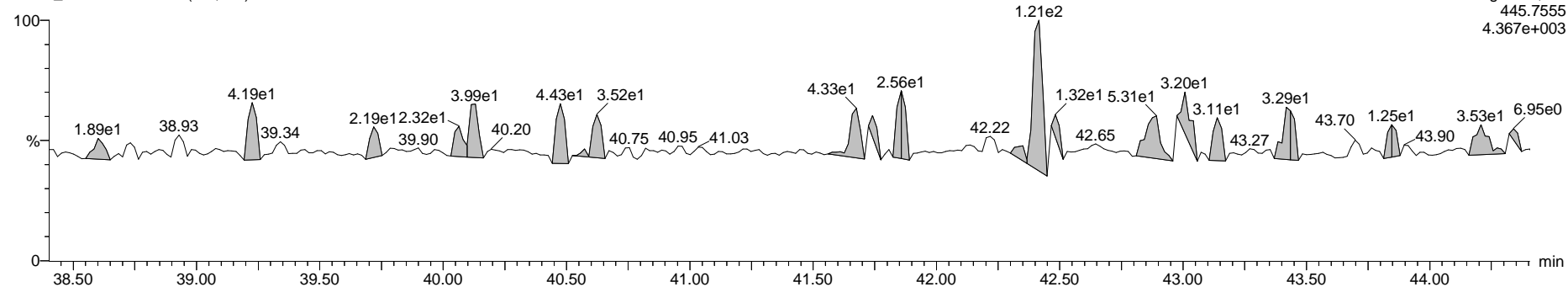


DX9M_082ES24 Smooth(SG,1x2)



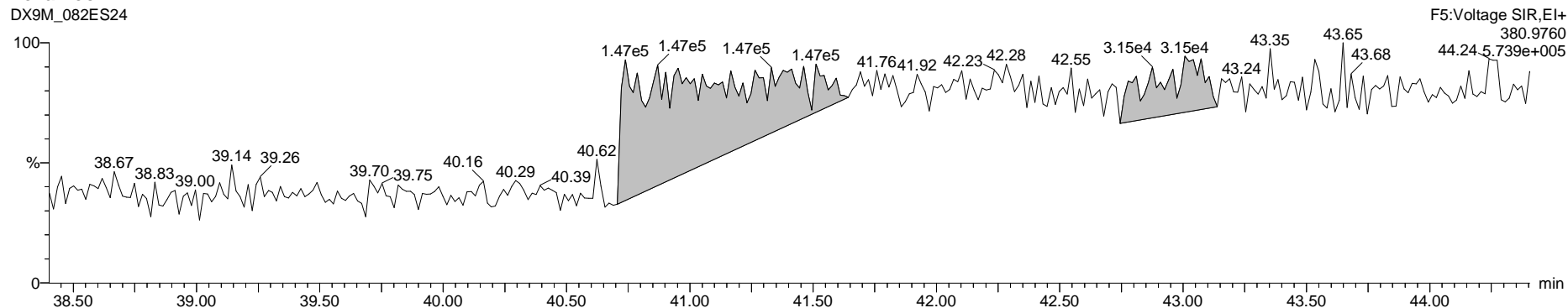
Octa DPE

DX9M_082ES24 Smooth(SG,1x2)



Hexa Lock

DX9M_082ES24

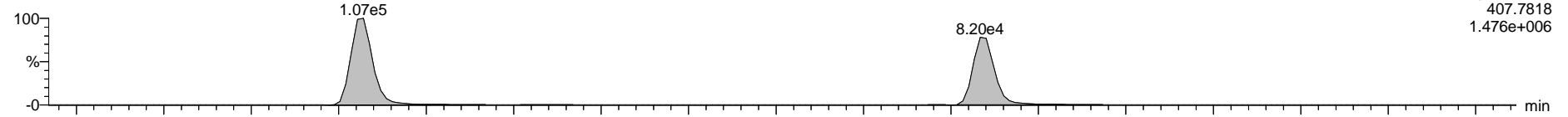


Axys Analytical Services, Ltd.

Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

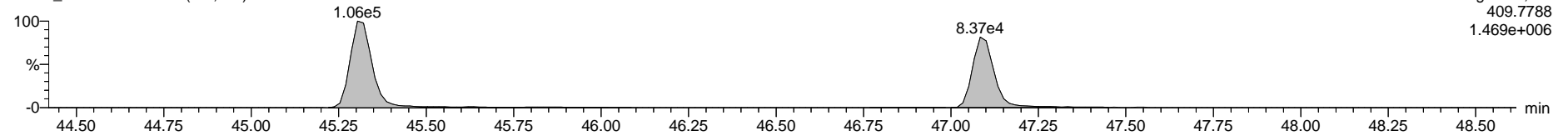
Total Hepta-Furans

DX9M_082ES24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
1.476e+006

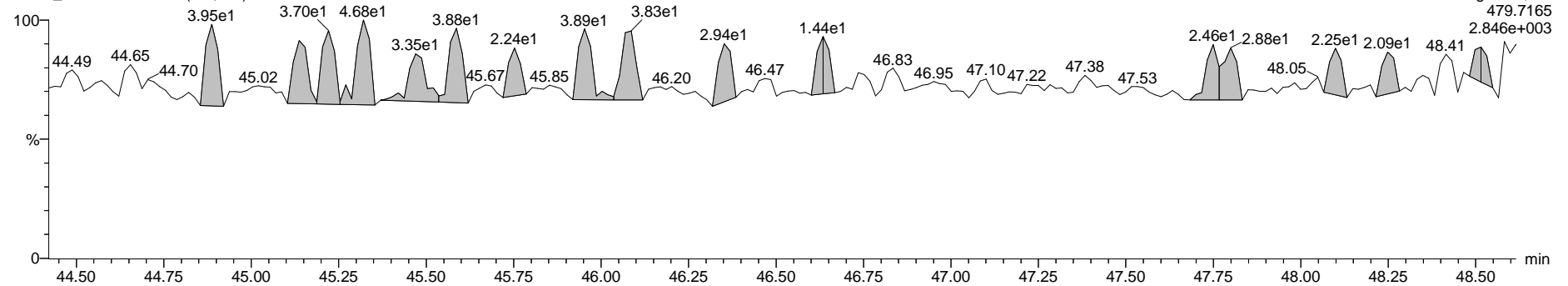
DX9M_082ES24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
1.469e+006

Nona DPE

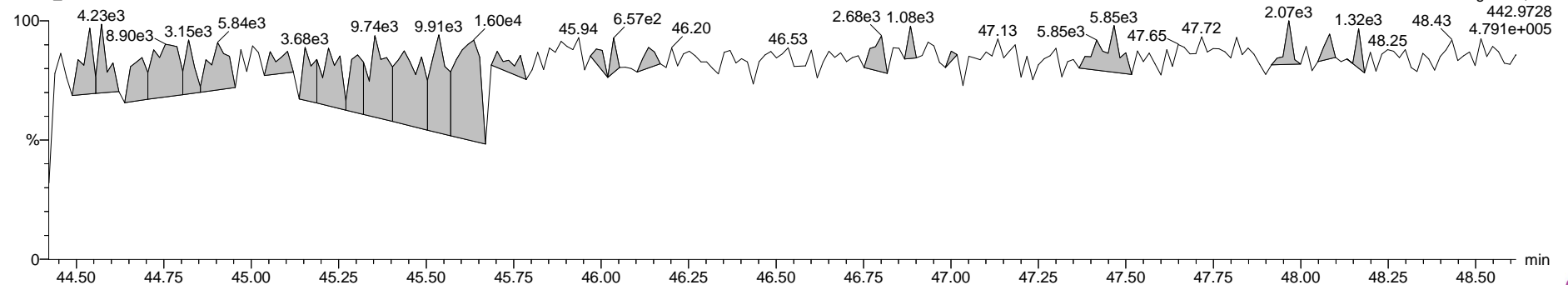
DX9M_082ES24 Smooth(SG,1x2)



F6:Voltage SIR,EI+
479.7165
2.846e+003

Hepta Lock

DX9M_082ES24



F6:Voltage SIR,EI+
442.9728
4.791e+005

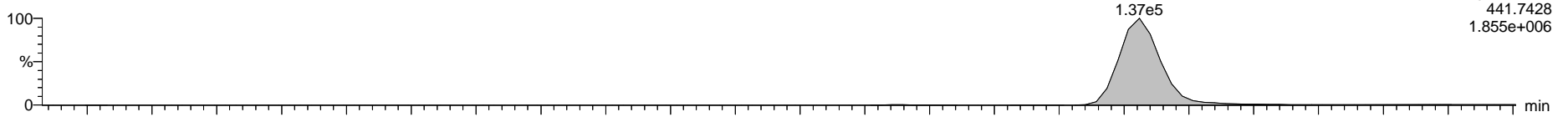


Axys Analytical Services, Ltd.

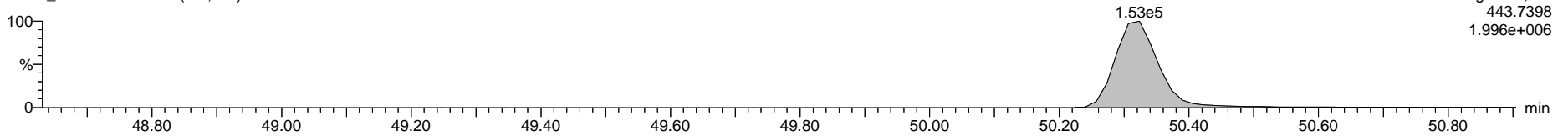
Name: DX9M_082ES24, Date: 09-Jul-2009, Time: 17:28:01, ID: WG29271-102,I,SPM, Description: 1,WG29271,1.0/20uL

OCDF

DX9M_082ES24 Smooth(SG,1x2)

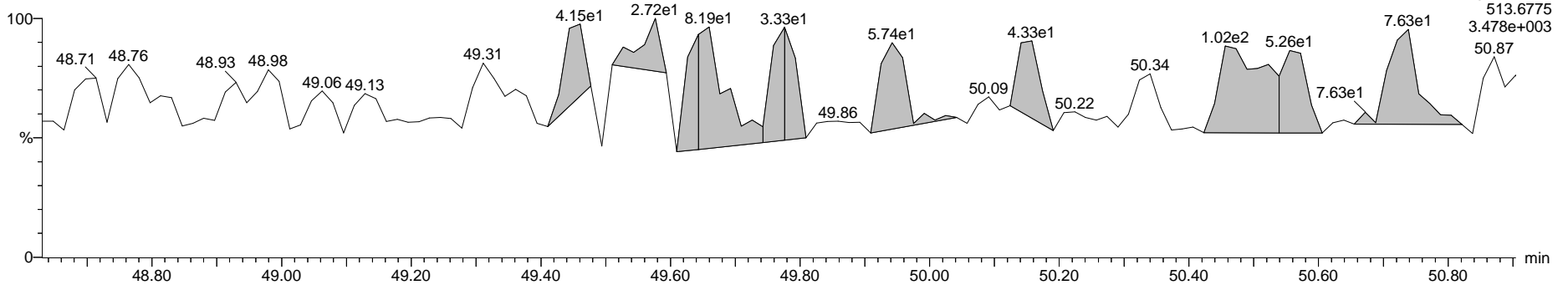


DX9M_082ES24 Smooth(SG,1x2)



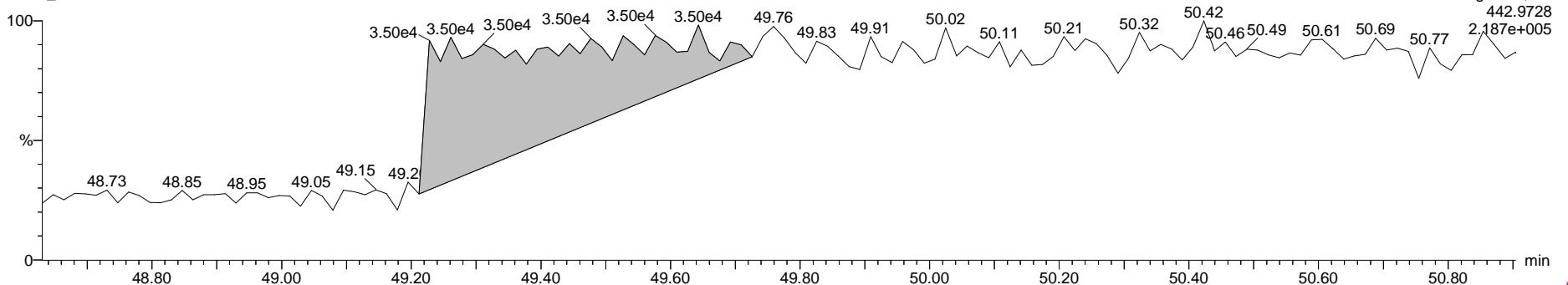
Deca DPE

DX9M_082ES24 Smooth(SG,1x2)



Octa Lock

DX9M_082ES24



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Name	Sample Size	Resp	Ratio	fails?	RT	Area	DL	%Rec	Noise:1	Noise:2
1 2,3,7,8-TCDF	1.000	7.09e4	0.76	NO	25.31	88.632	0.3117		6.49e2	5.05e2
2 1,2,3,7,8-PeCDF	1.000	1.29e4	1.46	NO	33.59	20.586	0.6701		5.45e2	1.07e3
3 2,3,4,7,8-PeCDF	1.000	1.24e4	1.55	NO	35.33	20.565	0.6176		5.45e2	1.07e3
4 1,2,3,4,7,8-HxCDF	1.000	5.38e4	1.16	NO	40.71	105.117	0.4420		7.84e2	5.14e2
5 1,2,3,6,7,8-HxCDF	1.000	2.45e4	1.19	NO	40.87	45.381	0.4280		7.84e2	5.14e2
6 2,3,4,6,7,8-HxCDF	1.000	1.18e4	1.34	NO	41.81	25.651	0.4655		7.84e2	5.14e2
7 1,2,3,7,8,9-HxCDF	1.000	5.96e2	1.16	NO	42.86	1.550	0.5731		7.84e2	5.14e2
8 1,2,3,4,6,7,8-HpCDF	1.000	2.16e5	0.99	NO	45.27	539.373	0.5598		7.50e2	6.30e2
9 1,2,3,4,7,8,9-HpCDF	1.000	6.98e3	0.98	NO	47.05	21.465	0.6763		7.50e2	6.30e2
10 OCDF	1.000	1.69e5	0.86	NO	50.29	594.356	0.7405		7.81e2	4.66e2
11 2,3,7,8-TCDD	1.000	4.99e4	0.75	NO	26.48	67.831	0.3619		6.85e2	4.81e2
12 1,2,3,7,8-PeCDD	1.000	4.06e3	0.74	YES	36.14	8.359	0.4348		5.33e2	4.39e2
13 1,2,3,4,7,8-HxCDD	1.000	4.91e3	1.06	NO	42.09	12.150	0.4342		5.78e2	5.09e2
14 1,2,3,6,7,8-HxCDD	1.000	1.26e4	1.20	NO	42.22	30.324	0.4407		5.78e2	5.09e2
15 1,2,3,7,8,9-HxCDD	1.000	1.24e4	1.05	YES	42.65	30.814	0.4461		5.78e2	5.09e2
16 1,2,3,4,6,7,8-HpCDD	1.000	1.46e5	1.01	NO	46.65	388.596	0.6886		6.58e2	1.01e3
17 OCDD	1.000	8.97e5	0.86	NO	50.19	2920.487	0.7949		6.60e2	7.85e2
18 13C-2,3,7,8-TCDF	1.000	2.09e6	0.75	NO	25.22	1676.274	1.2932	83.8	2.61e3	4.83e3
19 13C-1,2,3,7,8-PeCDF	1.000	1.50e6	1.52	NO	33.55	1725.387	1.5648	86.3	3.16e3	3.12e3
20 13C-2,3,4,7,8-PeCDF	1.000	1.42e6	1.52	NO	35.31	1678.147	1.6079	83.9	3.16e3	3.12e3
21 13C-1,2,3,4,7,8-HxCDF	1.000	1.07e6	0.51	NO	40.67	1679.834	1.6166	84.0	3.28e3	2.87e3
22 13C-1,2,3,6,7,8-HxCDF	1.000	1.18e6	0.51	NO	40.85	1601.840	1.3891	80.1	3.28e3	2.87e3
23 13C-2,3,4,6,7,8-HxCDF	1.000	1.06e6	0.51	NO	41.79	1567.711	1.5143	78.4	3.28e3	2.87e3
24 13C-1,2,3,7,8,9-HxCDF	1.000	9.51e5	0.51	NO	42.83	1503.767	1.6226	75.2	3.28e3	2.87e3
25 13C-1,2,3,4,6,7,8-HpCDF	1.000	7.57e5	0.44	NO	45.25	1488.616	1.2746	74.4	2.16e3	1.72e3
26 13C-1,2,3,4,7,8,9-HpCDF	1.000	6.80e5	0.45	NO	47.03	1450.713	1.3838	72.5	2.16e3	1.72e3
27 13C-2,3,7,8-TCDD	1.000	1.64e6	0.78	NO	26.45	1715.944	1.7450	85.8	4.13e3	3.59e3
28 13C-1,2,3,7,8-PeCDD	1.000	1.11e6	0.62	NO	36.12	1786.390	1.1701	89.3	1.72e3	1.63e3
29 13C-1,2,3,4,7,8-HxCDD	1.000	9.88e5	1.24	NO	42.07	1627.597	1.0922	81.4	2.35e3	1.62e3
30 13C-1,2,3,6,7,8-HxCDD	1.000	1.09e6	1.26	NO	42.20	1541.245	0.9353	77.1	2.35e3	1.62e3
31 13C-1,2,3,4,6,7,8-HpCDD	1.000	7.77e5	1.02	NO	46.63	1460.838	0.9141	73.0	1.42e3	1.50e3
32 13C-OCDD	1.000	1.32e6	0.87	NO	50.19	2192.279	1.0622	54.8	2.56e3	1.28e3
33 13C-1,2,3,4-TCDD	1.000	1.76e6	0.78	NO	26.12	99.206	0.0944	5.0	4.13e3	3.59e3
34 13C-1,2,3,7,8,9-HxCDD	1.000	1.25e6	1.22	NO	42.63	110.647	0.0589	5.5	2.35e3	1.62e3
35 37Cl-2,3,7,8-TCDD	1.000	1.86e5			26.48	204.013	0.4911	102.0		2.07e3
36 Total Tetra-Furans	1.000					458.924	0.3117	0.5		5.05e2
37 Total Tetra-Dioxins	1.000					138.672	0.3619	0.5		4.81e2
38 Total Penta-Furans	1.000					374.004	0.6496	0.6701		1.07e3
39 Total Penta-Dioxins	1.000					82.703	0.4948	0.5		4.39e2
40 Total Hexa-Furans	1.000						486.611	0.4363	0.5731	5.14e2
41 Total Hexa-Dioxins	1.000						286.743	0.4208	0.5	5.09e2
42 Total Hepta-Furans	1.000						734.182	0.5860	0.6763	6.30e2
43 Total Hepta-Dioxins	1.000						867.395	0.6886		1.01e3
44 Hexa DPE	1.000	5.13e2			25.82					2.78e2
45 Hepta DPE	1.000	1.54e2			35.47					5.38e2
46 Octa DPE	1.000	3.15e2			40.90					7.32e2
47 Nona DPE	1.000	1.99e2			48.26					1.56e3
48 Deca DPE	1.000	1.41e2			48.83					4.33e2
49 Tetra Lock	1.000	1.33e4			24.13					1.00e5
50 Penta Lock	1.000	8.48e4			29.33					8.81e4
51 Hexa Lock	1.000	2.28e5			39.75					1.63e5
52 Hepta Lock	1.000	8.95e3			46.72					1.12e5
53 Octa Lock	1.000	1.04e5			49.00					6.67e4

Conc, DL
x2
K0.002

138.672
374.004
82.703
286.743

PV WL 15-JUL-2009
SU'd BR 23-Jul-09

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Tetrafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	24.28	0.658	NO	23.484
2	24.13	0.747	NO	35.463
3	23.84	0.687	NO	27.086
4	23.69	0.828	NO	6.304
5	23.41	0.732	NO	47.192
6	22.98	0.748	NO	66.262
7	22.55	0.757	NO	57.628
8	22.23	0.765	NO	22.449
9	21.94	0.720	NO	13.448
10	21.39	0.678	NO	16.149
11	28.15	0.685	NO	1.415
12	26.28	0.793	NO	9.322
13	25.93	0.748	NO	15.866
14	25.31	0.758	NO	88.632
15	24.94	0.791	NO	9.238
16	24.58	0.722	NO	18.983

Tetradioxins

	RT	1 ^o Ratio (A)	Fails?	pg
1	23.36	0.780	NO	12.557
2	22.93	0.725	NO	25.093
3	27.09	0.978	YES	2.011
4	26.48	0.754	NO	67.831
5	26.33	0.698	NO	12.370
6	26.15	0.741	NO	2.955
7	25.60	0.810	NO	2.418
8	25.22	3.449	YES	8.086
9	25.06	0.554	YES	1.618
10	24.93	0.719	NO	1.216
11	24.69	0.780	NO	12.083
12	23.75	0.860	NO	2.149

Pentafurans

	RT	1 ^o Ratio (A)	Fails?	pg
1	32.47	2.877	YES	1.425
2	31.92	1.546	NO	11.677
3	31.53	1.497	NO	125.230
4	31.13	1.405	NO	14.635
5	28.90	1.470	NO	87.456
6	37.12	1.646	NO	1.147
7	36.05	1.001	YES	1.245
8	35.62	1.452	NO	19.663
9	35.33	1.547	NO	20.565
10	34.31	1.554	NO	18.494
11	33.97	1.417	NO	7.157
12	33.59	1.465	NO	20.586
13	33.43	1.652	NO	14.751
14	32.90	1.593	NO	52.643

PV WL 15-JUL-2009

Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Pentadioxins

	RT	1 ^o Ratio (A	Fails?	pg
1	34.93	0.676	NO	2.873
2	34.51	0.581	NO	12.977
3	34.22	0.728	YES	9.338
4	33.88	0.648	NO	19.411
5	33.19	0.436	YES	3.378
6	32.05	0.594	NO	31.597
7	37.07	0.665	NO	3.707
8	36.49	0.618	NO	3.428
9	36.14	0.740	YES	8.359
10	35.74	0.634	NO	1.890
11	35.51	0.526	NO	6.820

Hexafurans

	RT	1 ^o Ratio (A	Fails?	pg
1	41.81	1.341	NO	25.651
2	41.64	1.186	NO	5.644
3	41.30	1.290	NO	7.496
4	41.02	1.307	NO	2.879
5	40.87	1.186	NO	45.381
6	40.71	1.159	NO	105.117
7	40.62	1.092	NO	21.738
8	40.06	1.243	NO	39.901
9	39.75	1.094	NO	14.805
10	39.49	1.241	NO	4.249
11	39.24	1.189	NO	166.742
12	38.98	1.166	NO	40.121
13	42.99	1.110	NO	5.338
14	42.86	1.164	NO	1.550

Hexadioxins

	RT	1 ^o Ratio (A	Fails?	pg
1	42.65	1.049	YES	30.814
2	42.22	1.205	NO	30.324
3	42.09	1.064	NO	12.150
4	41.40	1.395	NO	5.951
5	41.20	1.227	NO	106.673
6	40.82	1.425	NO	68.059
7	40.01	1.281	NO	63.586

Heptafurans

	RT	1 ^o Ratio (A	Fails?	pg
1	45.79	1.054	NO	143.877
2	45.59	0.890	NO	29.467
3	45.27	0.989	NO	539.373
4	47.05	0.982	NO	21.465

PV WL 15-JUL-2009



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Heptadioxins

	RT	Ratio (A:	Fails?	pg
1	46.65	1.013	NO	388.596
2	45.74	1.028	NO	478.799

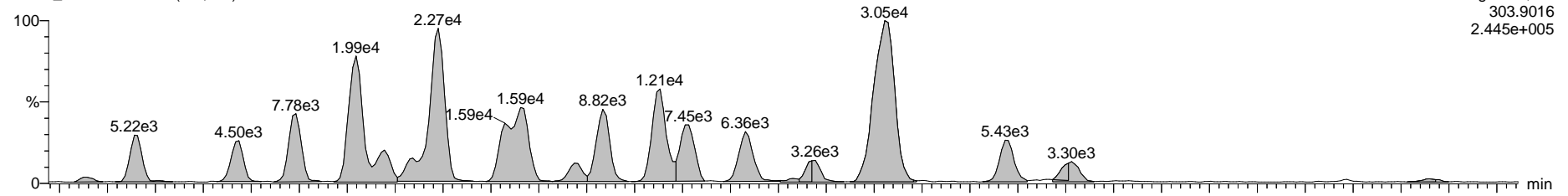
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

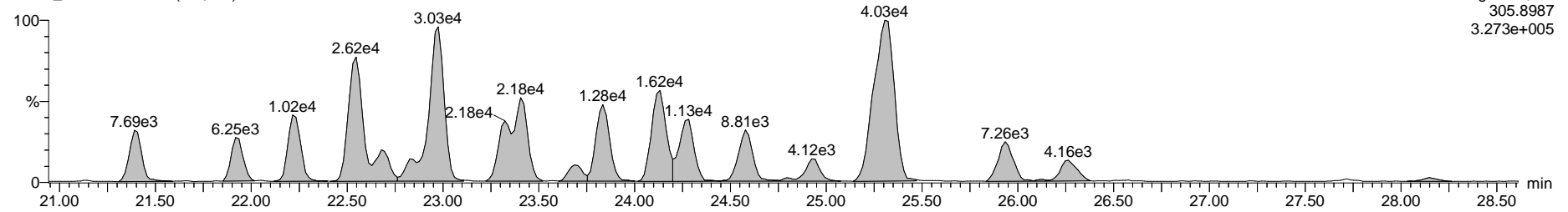
Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S25 Smooth(SG,1x2)

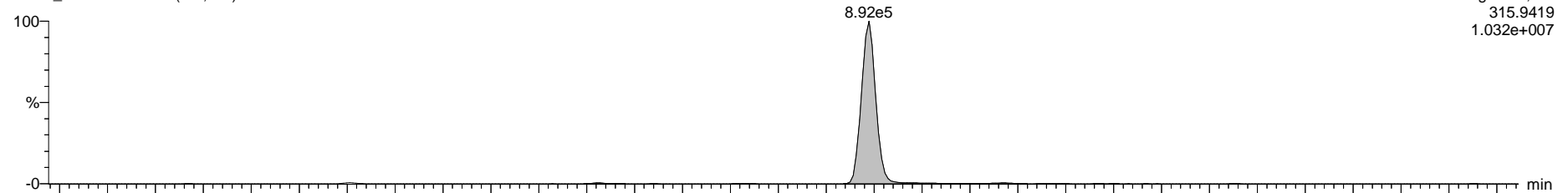


DX9M_083S25 Smooth(SG,1x2)

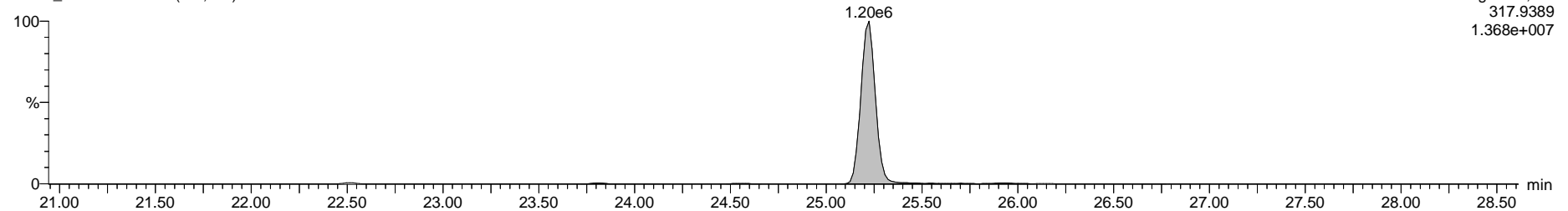


13C-2,3,7,8-TCDF

DX9M_083S25 Smooth(SG,1x2)



DX9M_083S25 Smooth(SG,1x2)



PV WL 15-JUL-2009

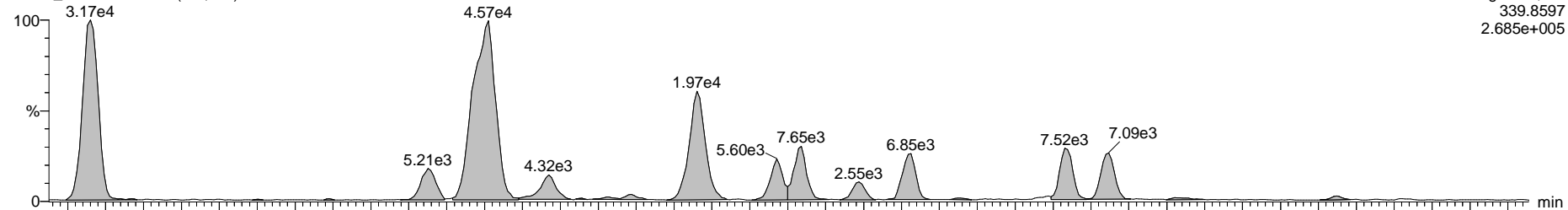


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

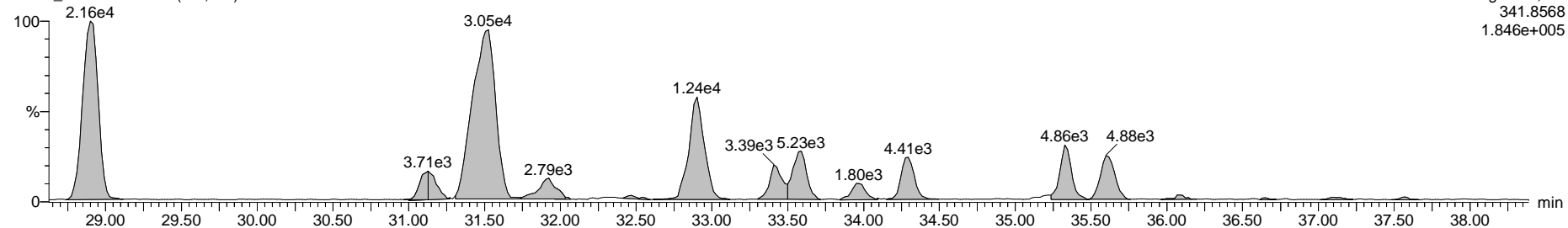
Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S25 Smooth(SG,1x2)

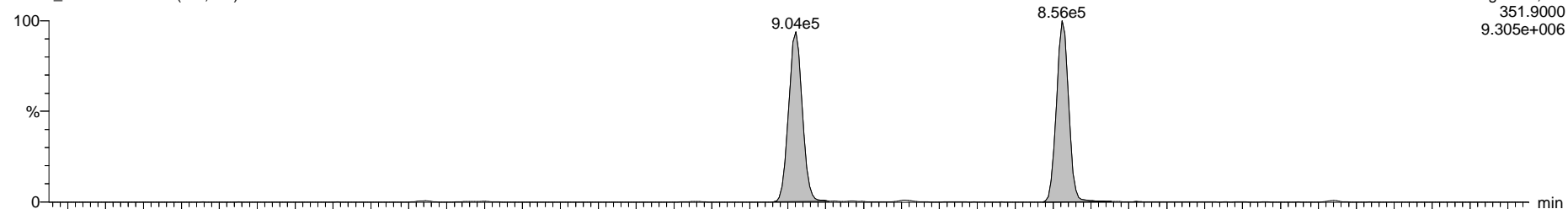


DX9M_083S25 Smooth(SG,1x2)

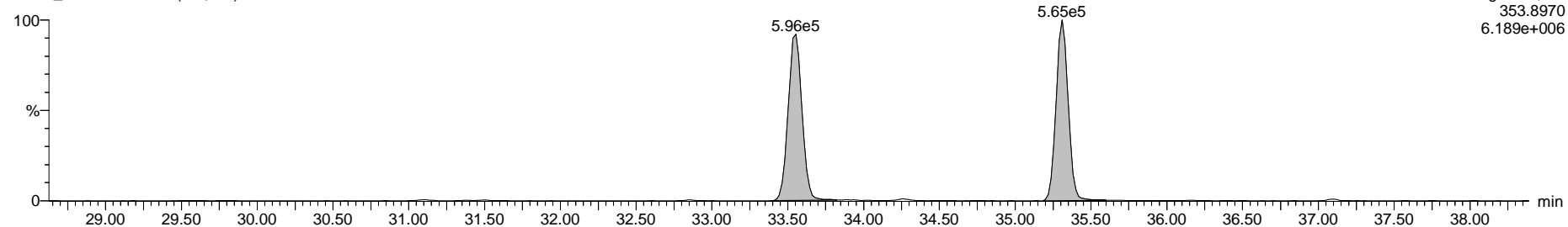


13C-1,2,3,7,8-PeCDF

DX9M_083S25 Smooth(SG,1x2)



DX9M_083S25 Smooth(SG,1x2)

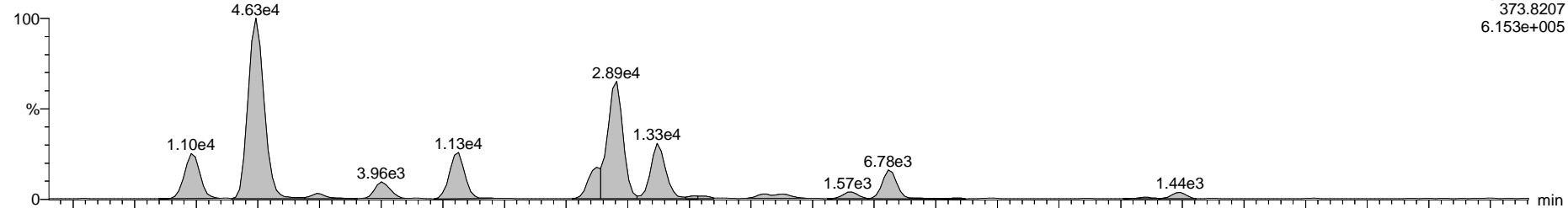


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

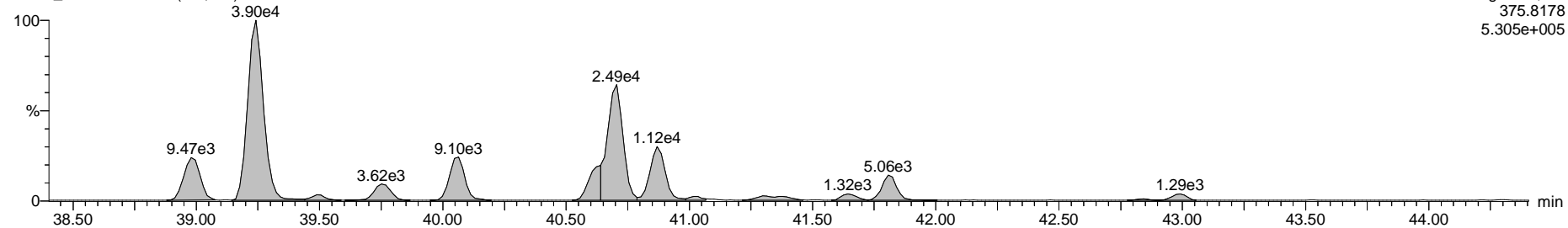
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Total Hexa-Furans

DX9M_083S25 Smooth(SG,1x2)

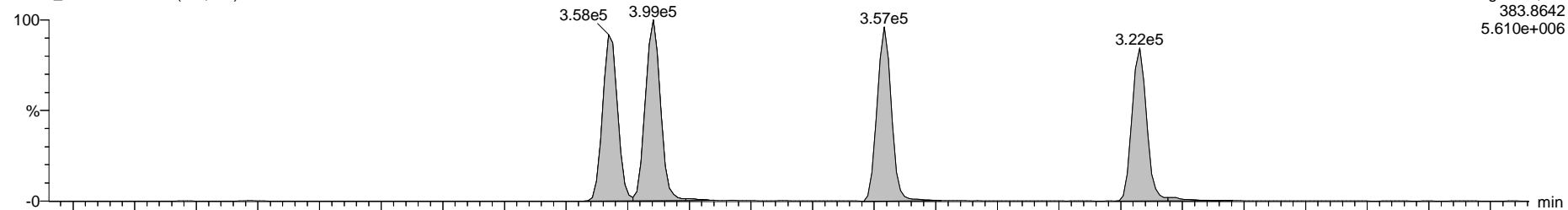


DX9M_083S25 Smooth(SG,1x2)

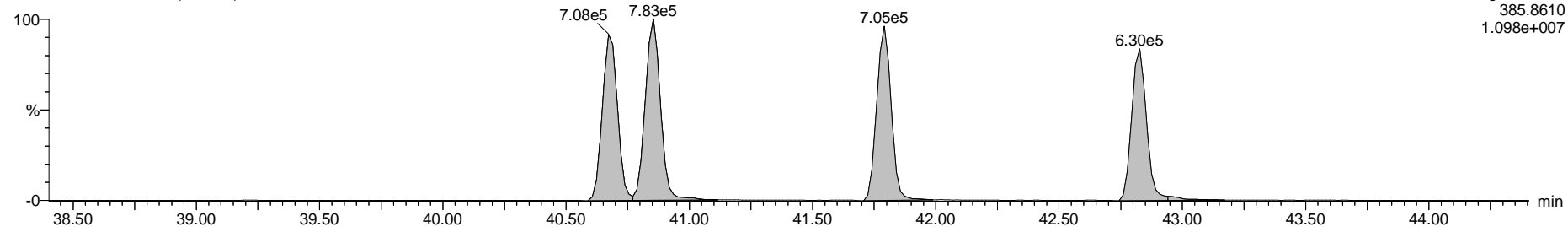


13C-1,2,3,4,7,8-HxCDF

DX9M_083S25 Smooth(SG,1x2)



DX9M_083S25 Smooth(SG,1x2)

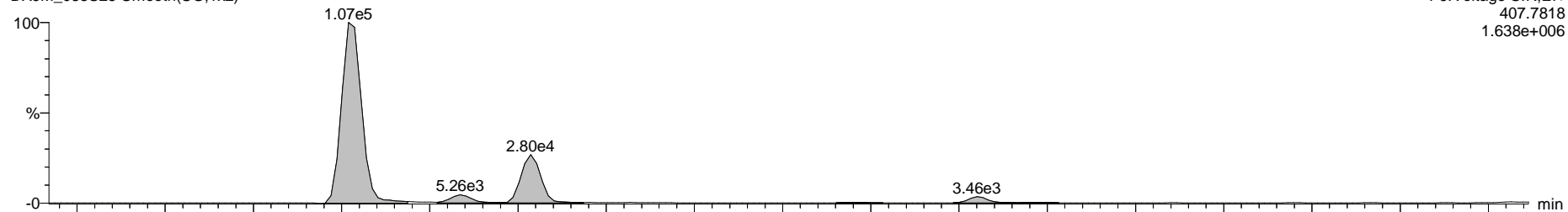


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

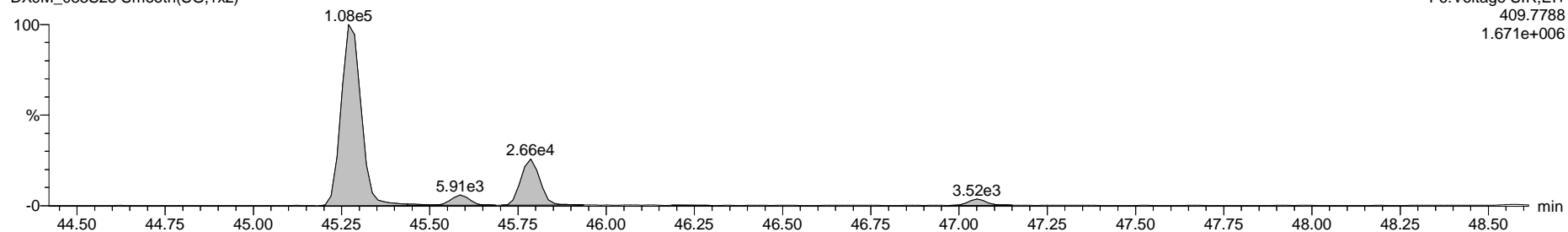
Total Hepta-Furans

DX9M_083S25 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
1.638e+006

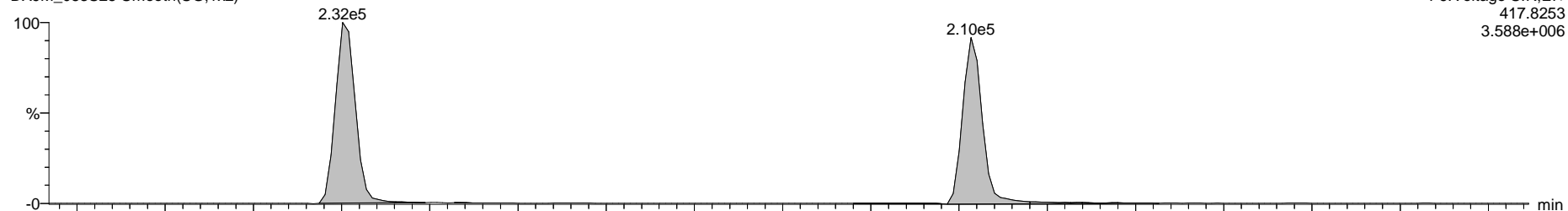
DX9M_083S25 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
1.671e+006

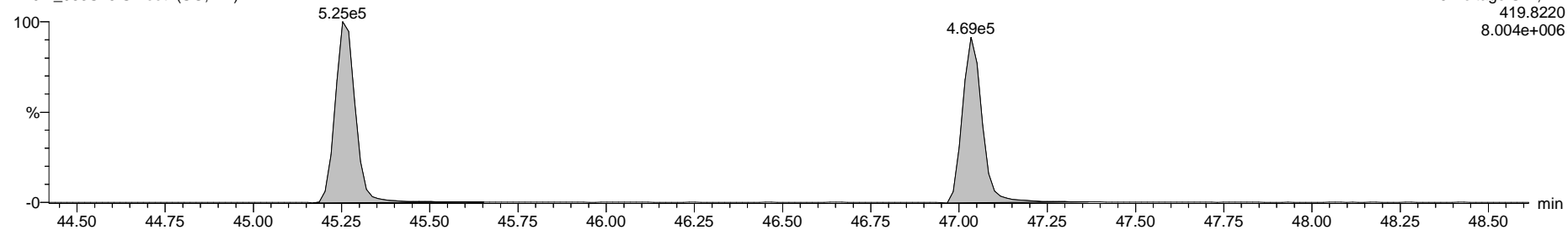
13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S25 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
3.588e+006

DX9M_083S25 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
8.004e+006

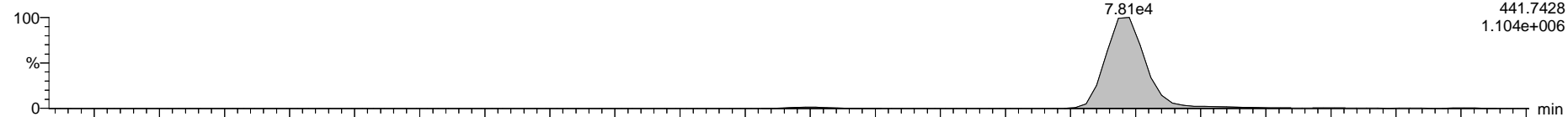


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

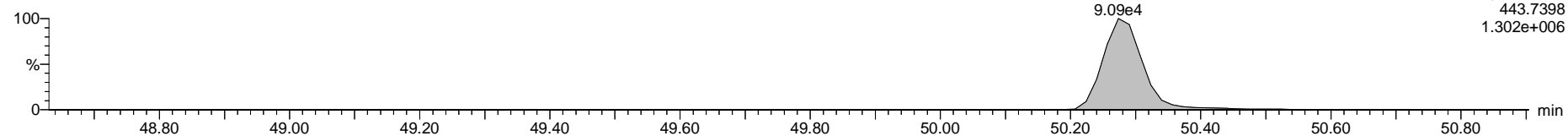
OCDF

DX9M_083S25 Smooth(SG,1x2)



F7:Voltage SIR,EI+
441.7428
1.104e+006

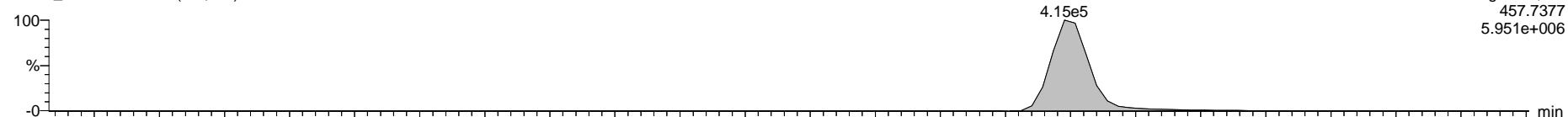
DX9M_083S25 Smooth(SG,1x2)



F7:Voltage SIR,EI+
443.7398
1.302e+006

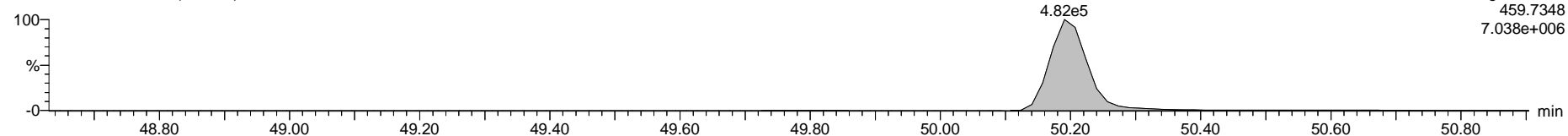
OCDD

DX9M_083S25 Smooth(SG,1x2)



F7:Voltage SIR,EI+
457.7377
5.951e+006

DX9M_083S25 Smooth(SG,1x2)



F7:Voltage SIR,EI+
459.7348
7.038e+006

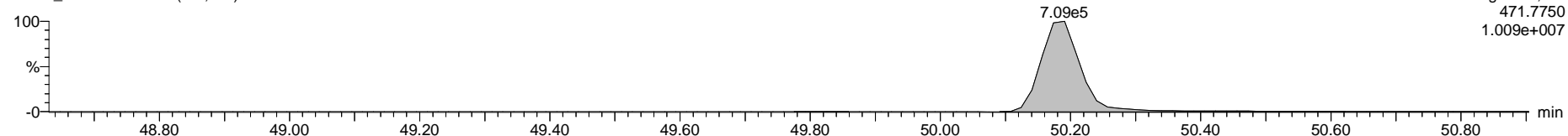
13C-OCDD

DX9M_083S25 Smooth(SG,1x2)



F7:Voltage SIR,EI+
469.7780
9.114e+006

DX9M_083S25 Smooth(SG,1x2)



F7:Voltage SIR,EI+
471.7750
1.009e+007

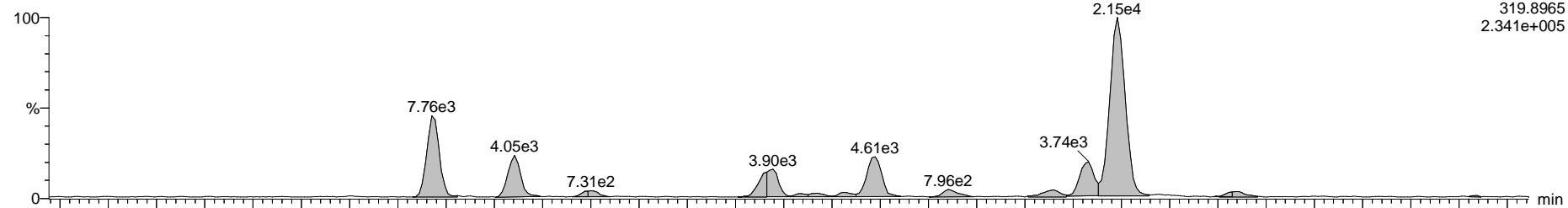


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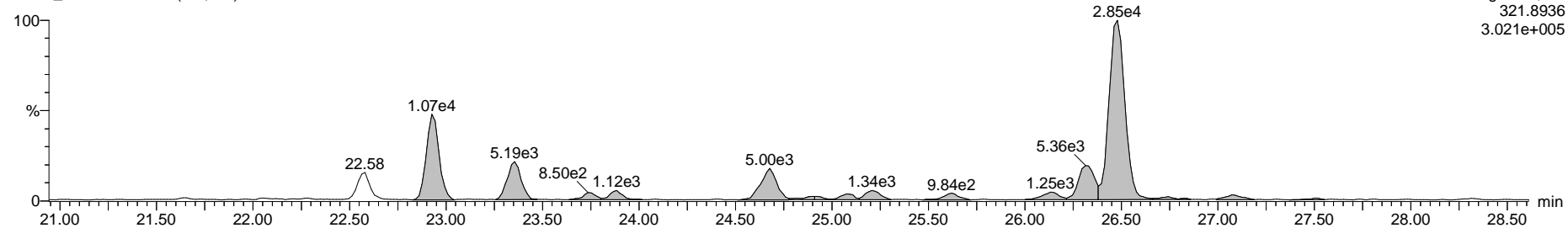
Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Total Tetra-Dioxins

DX9M_083S25 Smooth(SG,1x2)

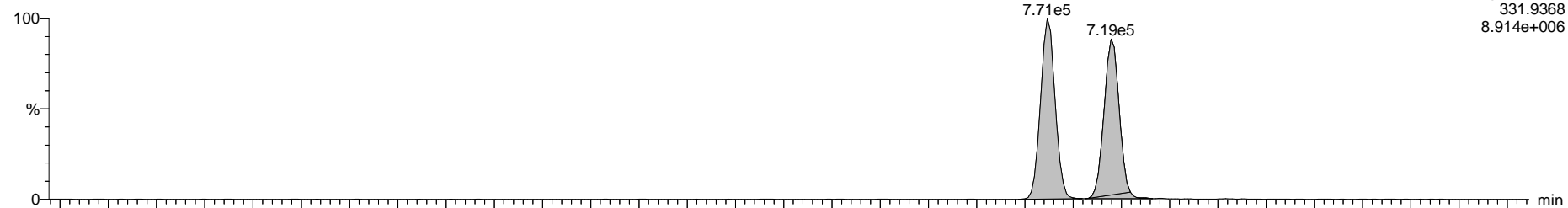


DX9M_083S25 Smooth(SG,1x2)

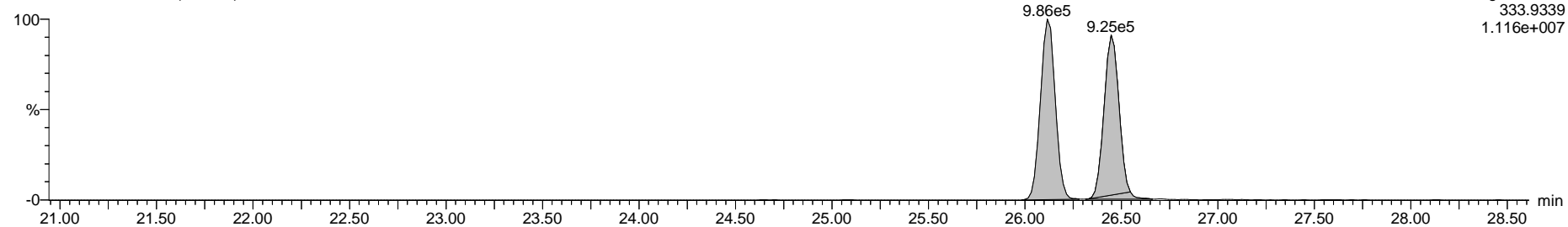


13C-2,3,7,8-TCDD

DX9M_083S25 Smooth(SG,1x2)



DX9M_083S25 Smooth(SG,1x2)



PV WL 15-JUL-2009

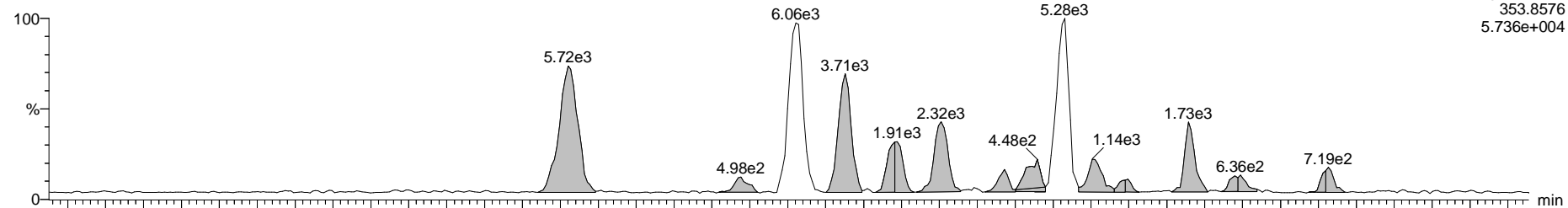


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

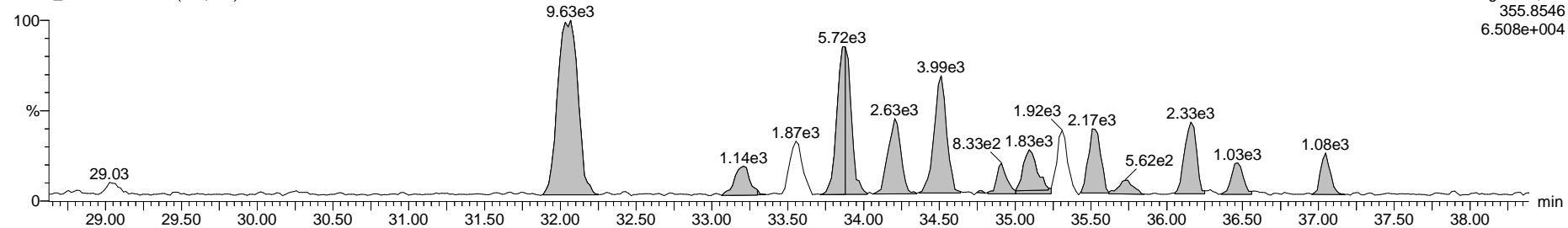
Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Total Penta-Dioxins

DX9M_083S25 Smooth(SG,1x2)

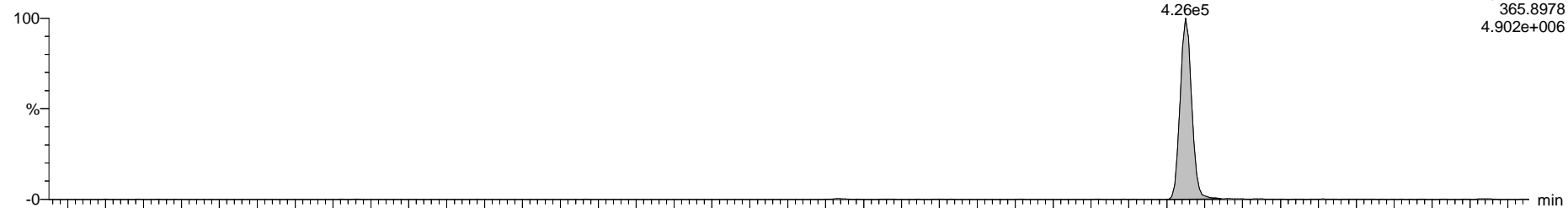


DX9M_083S25 Smooth(SG,1x2)

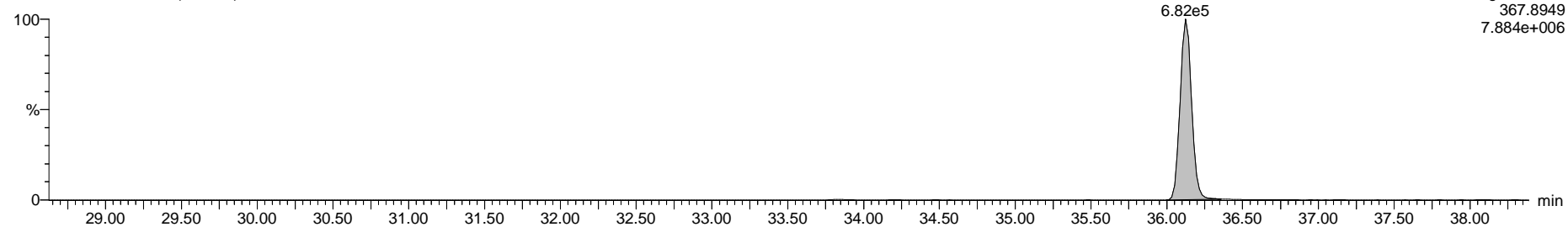


13C-1,2,3,7,8-PeCDD

DX9M_083S25 Smooth(SG,1x2)



DX9M_083S25 Smooth(SG,1x2)

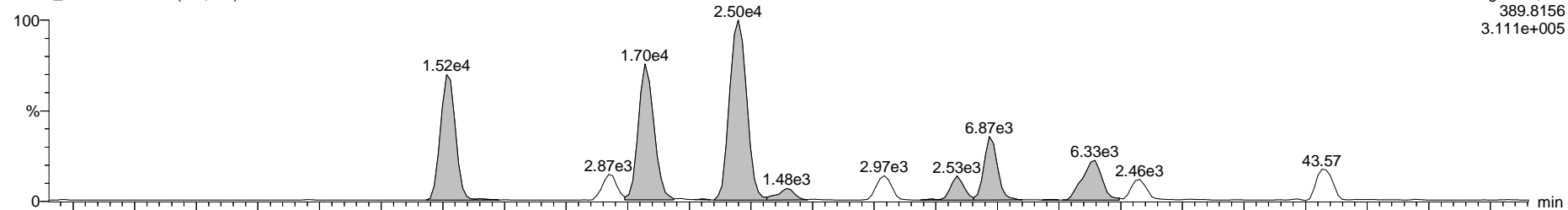


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

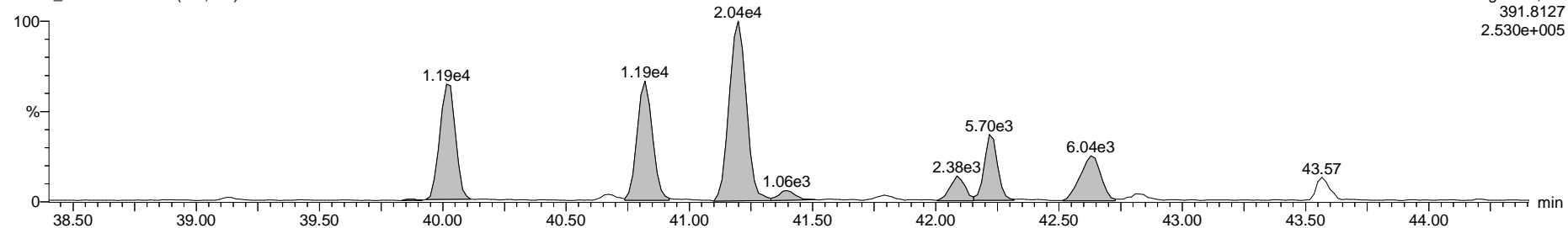
Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Total Hexa-Dioxins

DX9M_083S25 Smooth(SG,1x2)

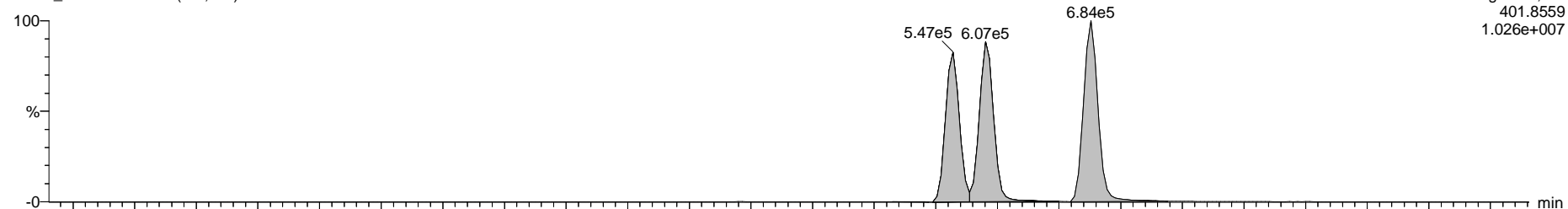


DX9M_083S25 Smooth(SG,1x2)

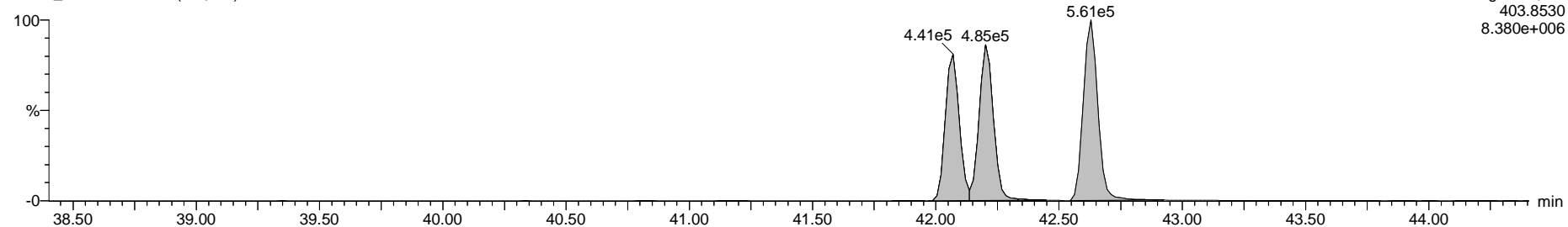


13C-1,2,3,4,7,8-HxCDD

DX9M_083S25 Smooth(SG,1x2)



DX9M_083S25 Smooth(SG,1x2)

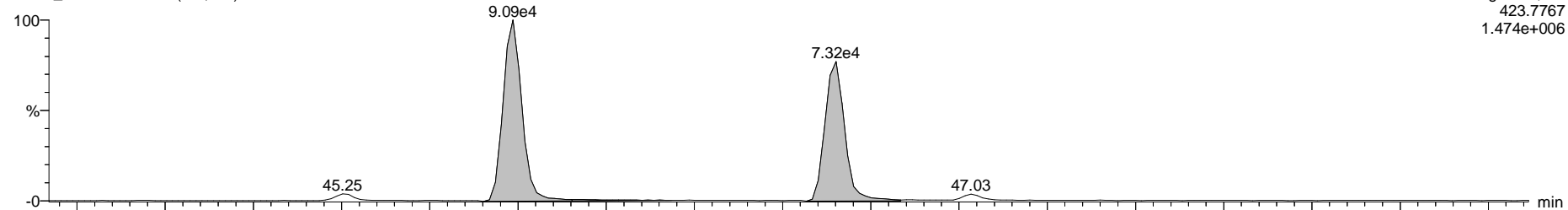


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

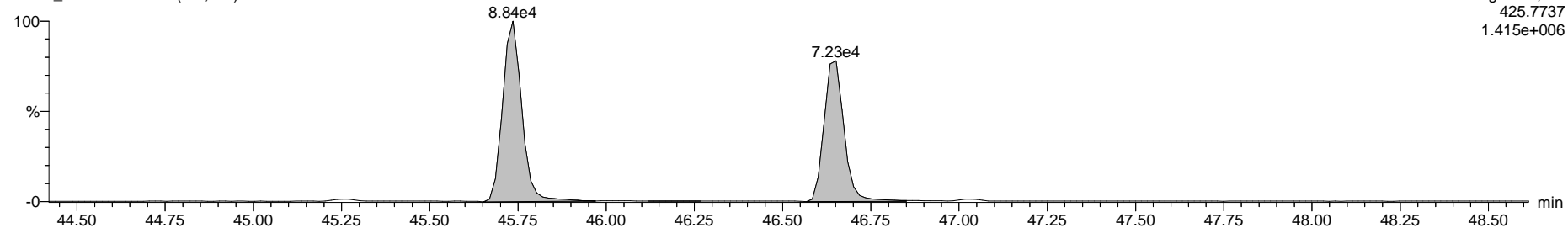
Total Hepta-Dioxins

DX9M_083S25 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
1.474e+006

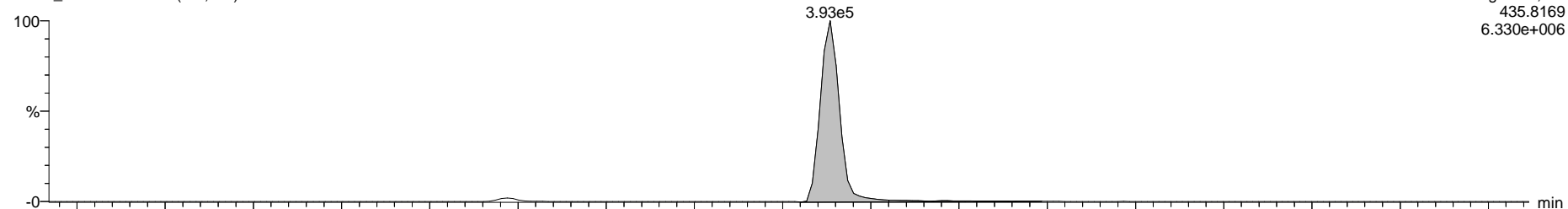
DX9M_083S25 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
1.415e+006

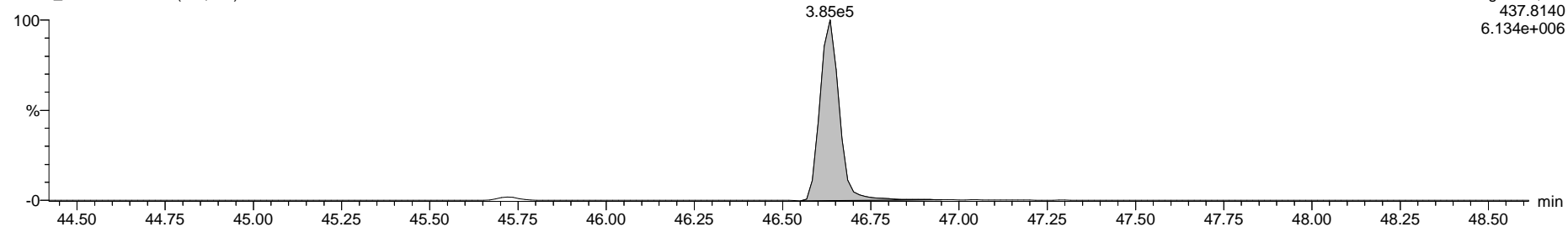
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S25 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
6.330e+006

DX9M_083S25 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
6.134e+006

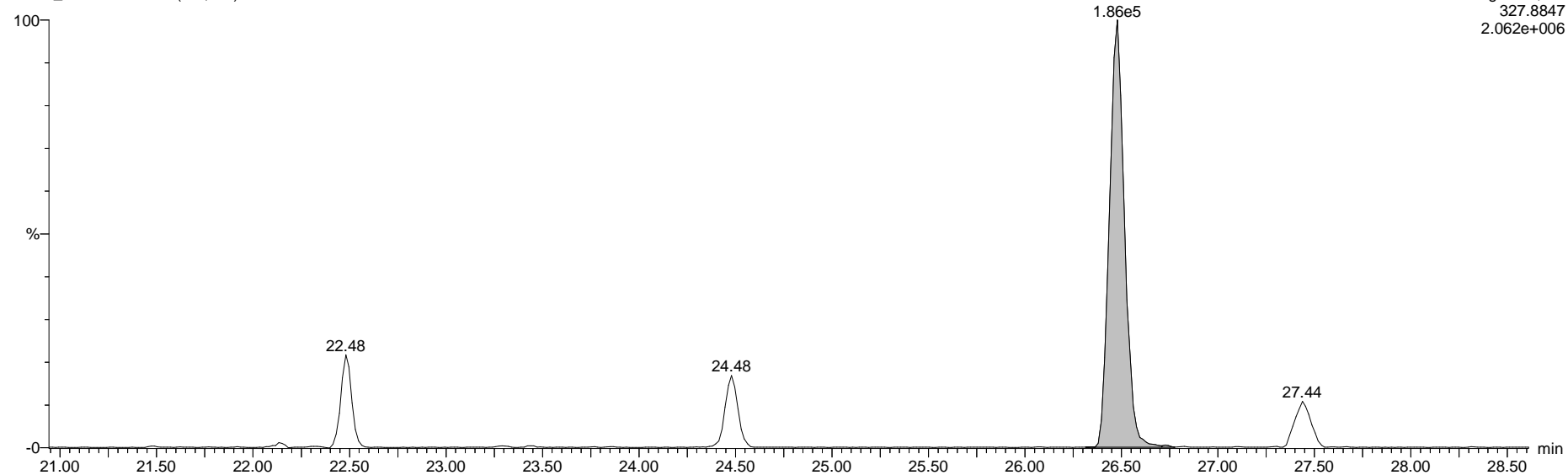


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

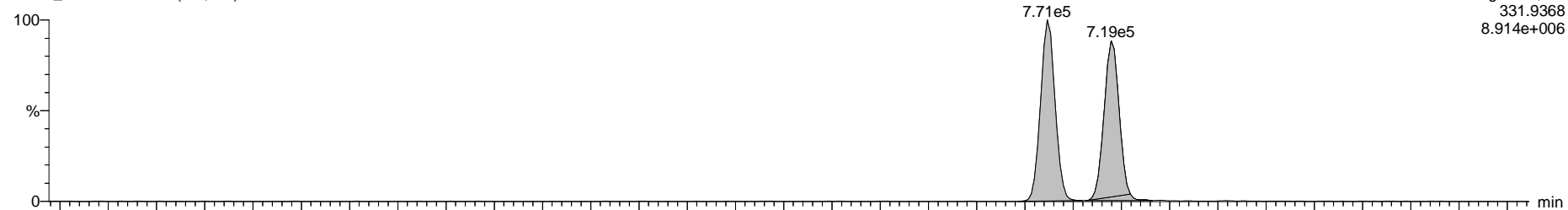
37Cl-2,3,7,8-TCDD

DX9M_083S25 Smooth(SG,1x2)

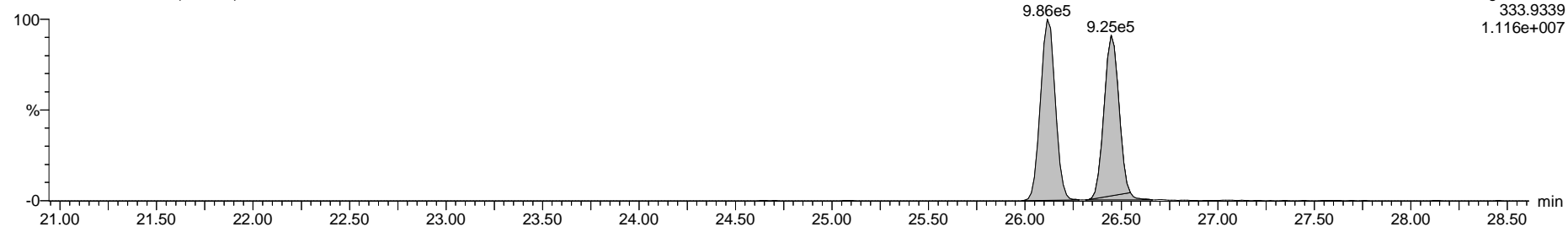


13C-1,2,3,4-TCDD

DX9M_083S25 Smooth(SG,1x2)



DX9M_083S25 Smooth(SG,1x2)

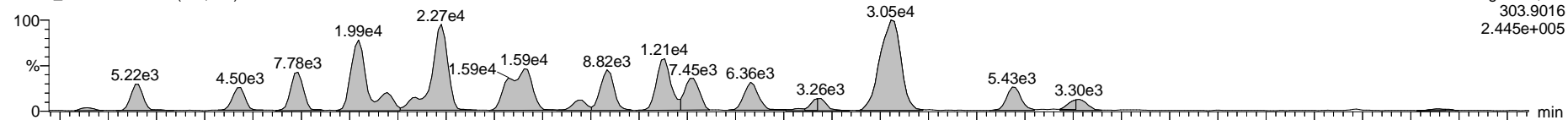


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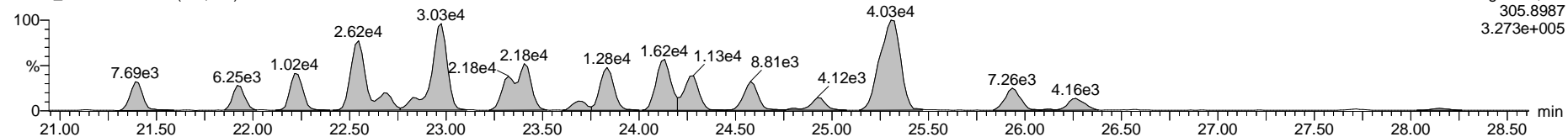
Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Total Tetra-Furans

DX9M_083S25 Smooth(SG,1x2)

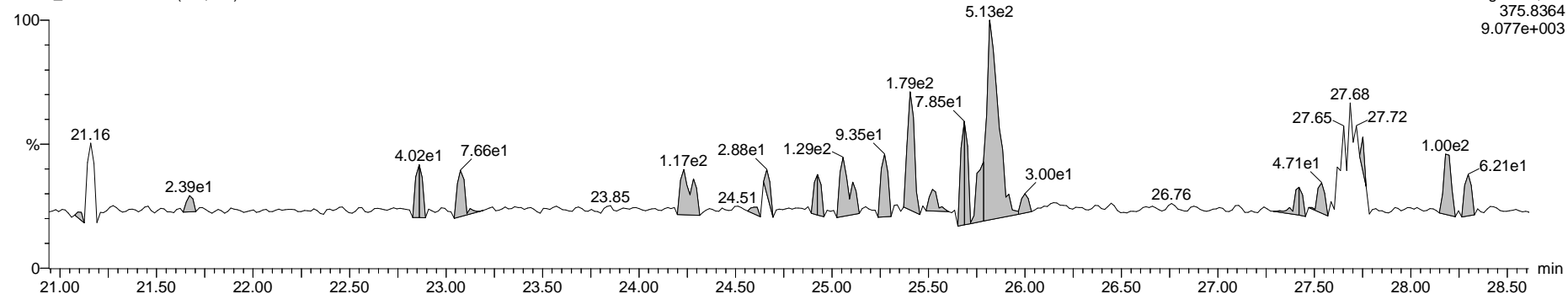


DX9M_083S25 Smooth(SG,1x2)



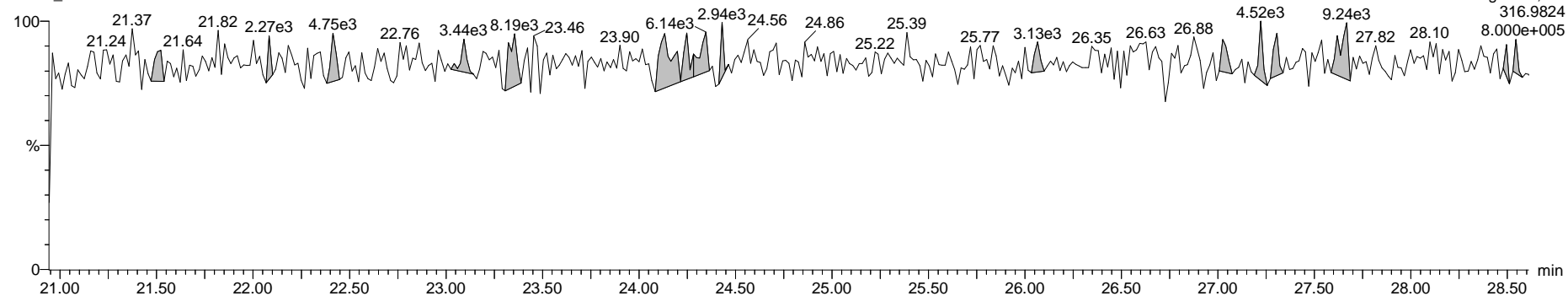
Hexa DPE

DX9M_083S25 Smooth(SG,1x2)



Tetra Lock

DX9M_083S25



PV WL 15-JUL-2009

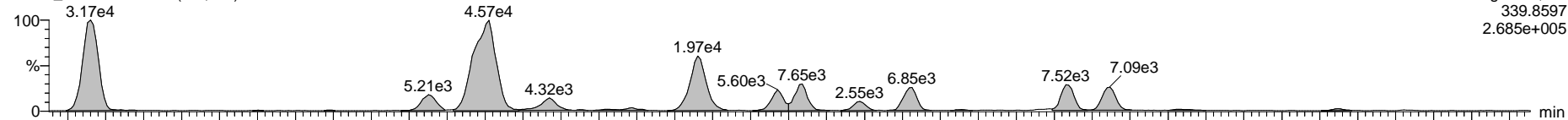


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

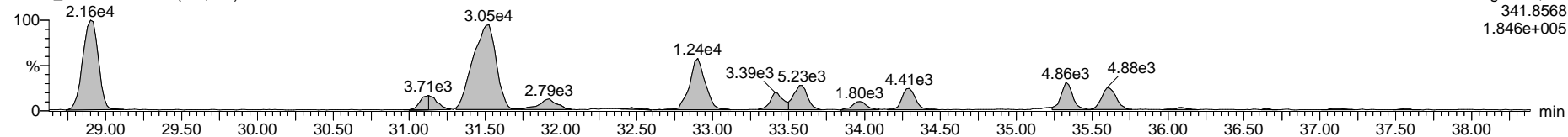
Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Total Penta-Furans

DX9M_083S25 Smooth(SG,1x2)

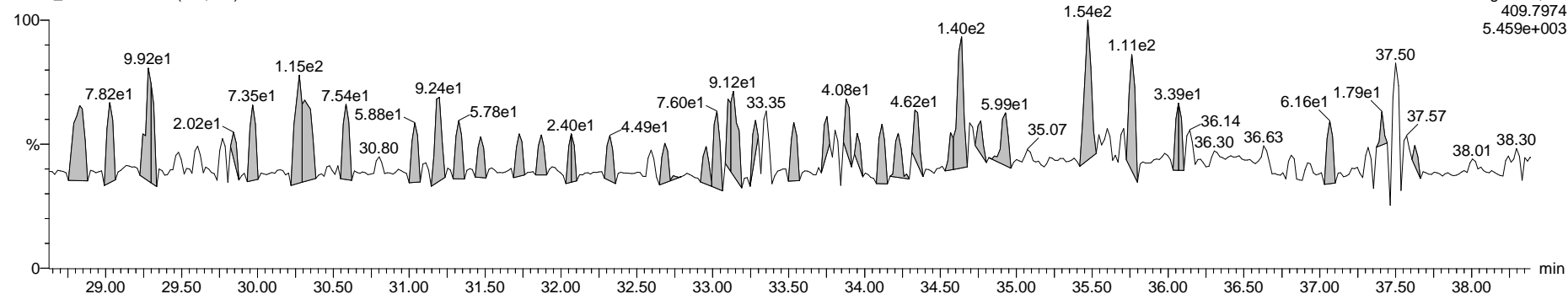


DX9M_083S25 Smooth(SG,1x2)



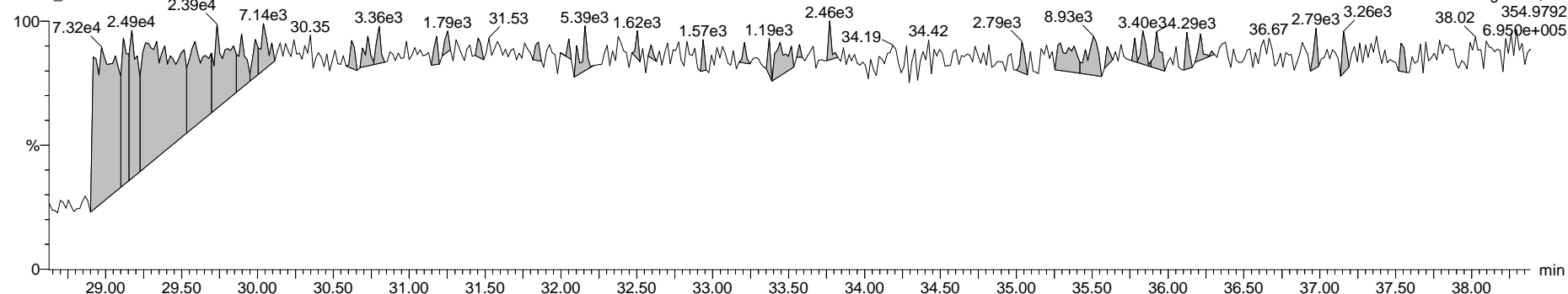
Hepta DPE

DX9M_083S25 Smooth(SG,1x2)



Penta Lock

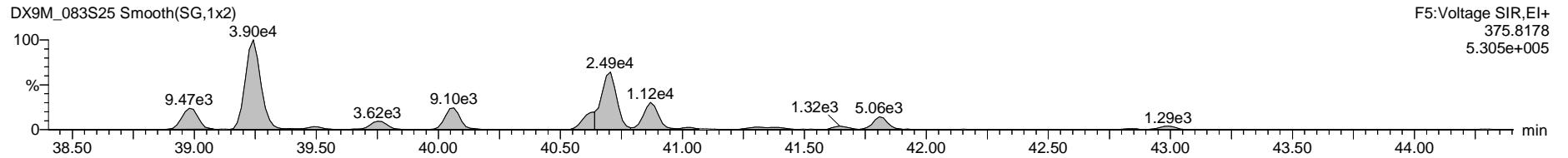
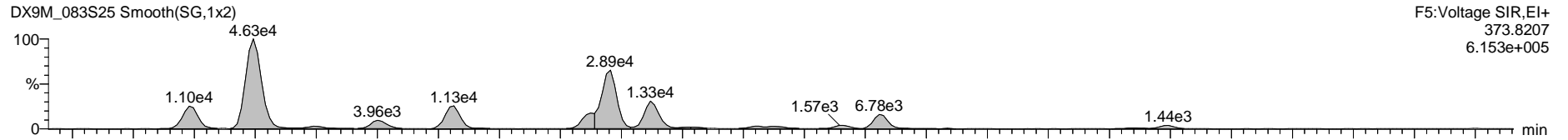
DX9M_083S25



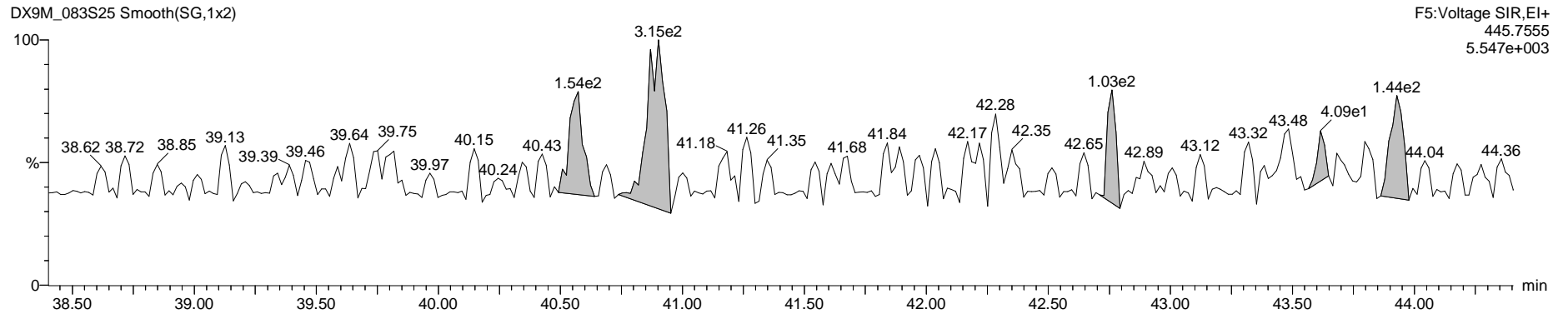
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

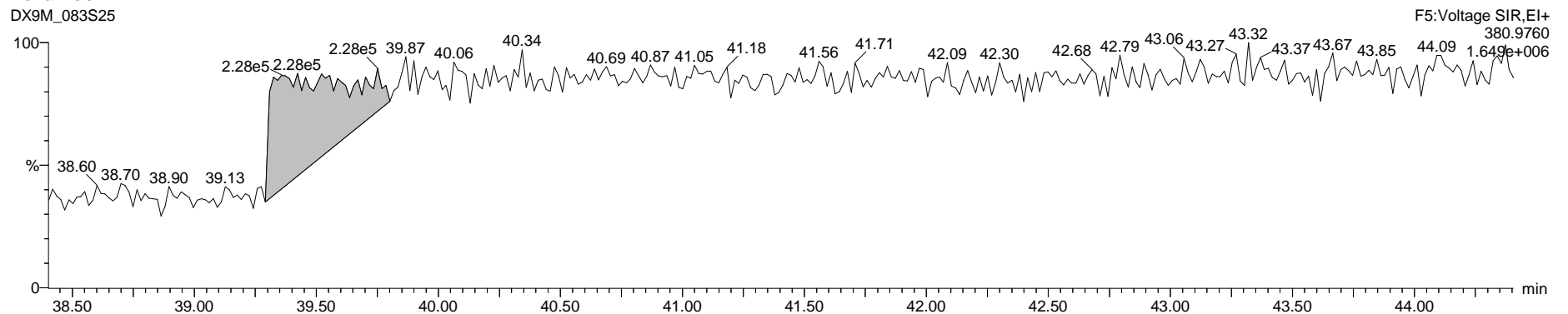
Total Hexa-Furans



Octa DPE



Hexa Lock

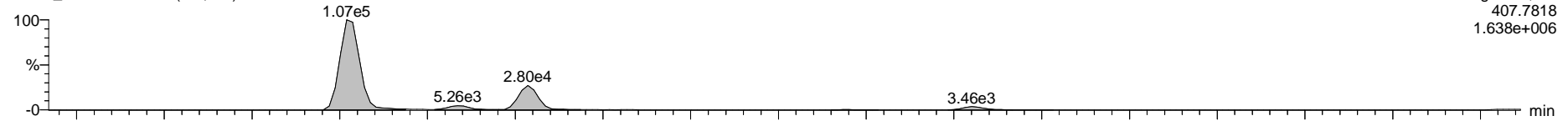


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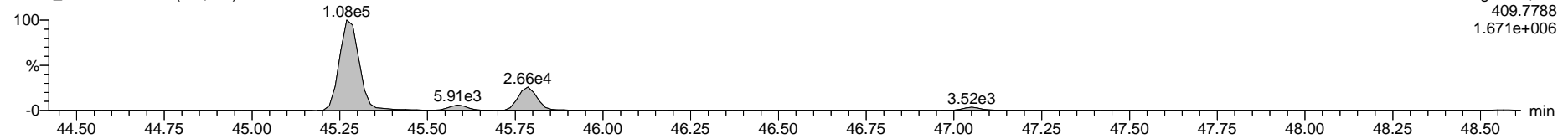
Name: DX9M_083S25, Date: 11-Jul-2009, Time: 06:40:28, ID: WG29271-104,,CRM, Description: 1,WG29271,1.0/20uL

Total Hepta-Furans

DX9M_083S25 Smooth(SG,1x2)

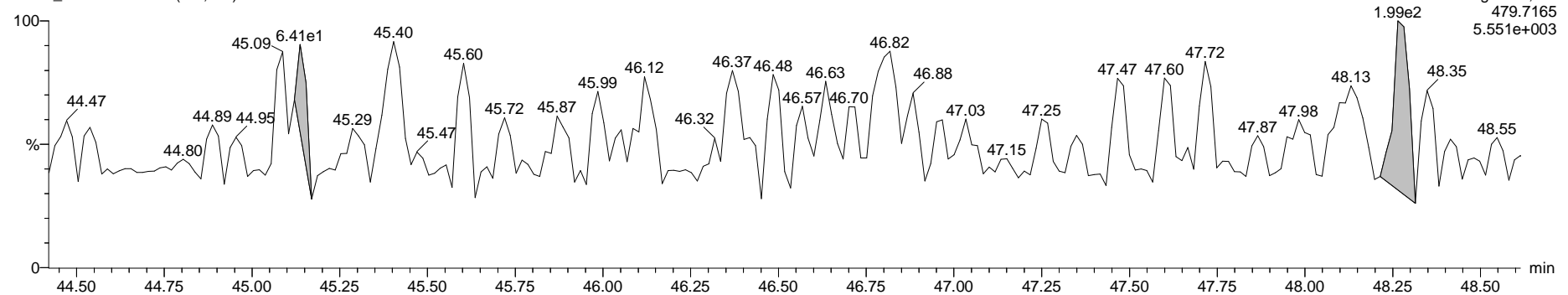


DX9M_083S25 Smooth(SG,1x2)



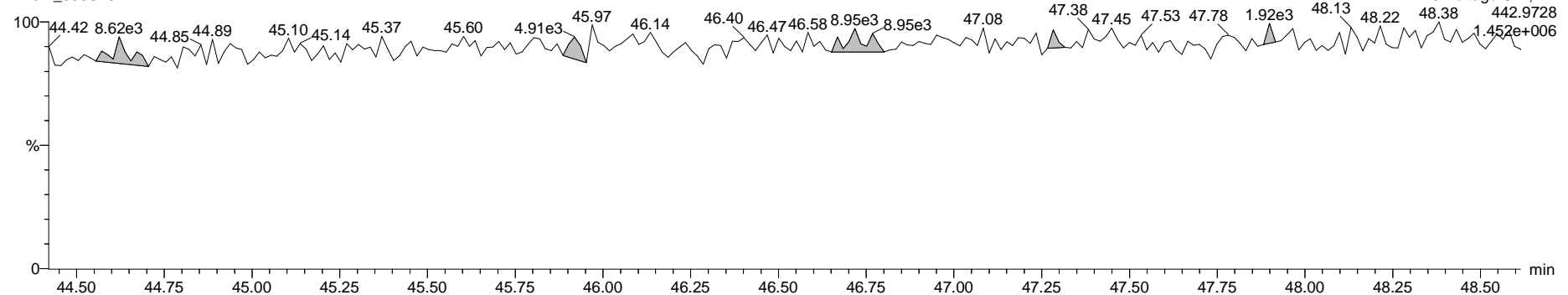
Nona DPE

DX9M_083S25 Smooth(SG,1x2)



Hepta Lock

DX9M_083S25

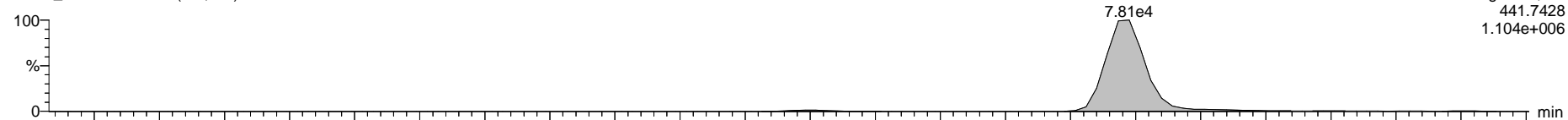


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

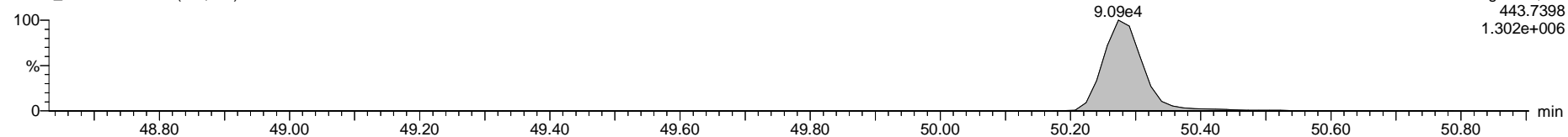
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OCDF

DX9M_083S25 Smooth(SG,1x2)

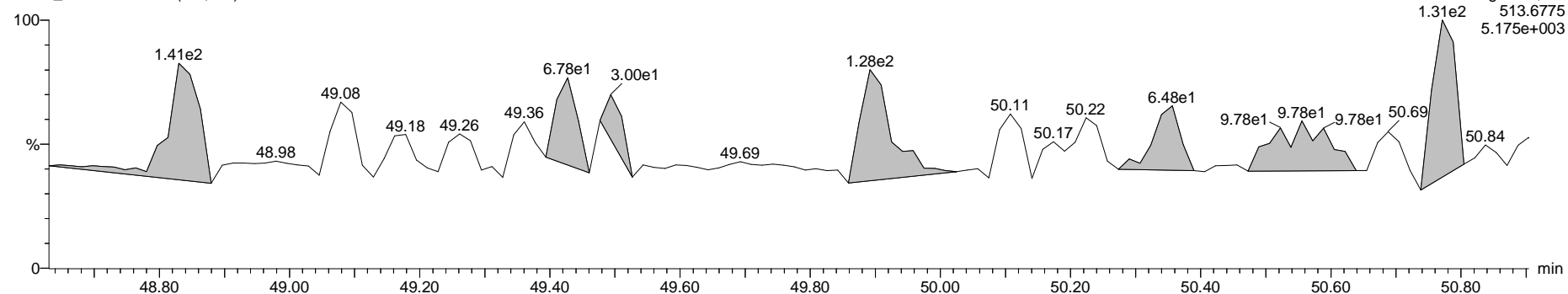


DX9M_083S25 Smooth(SG,1x2)



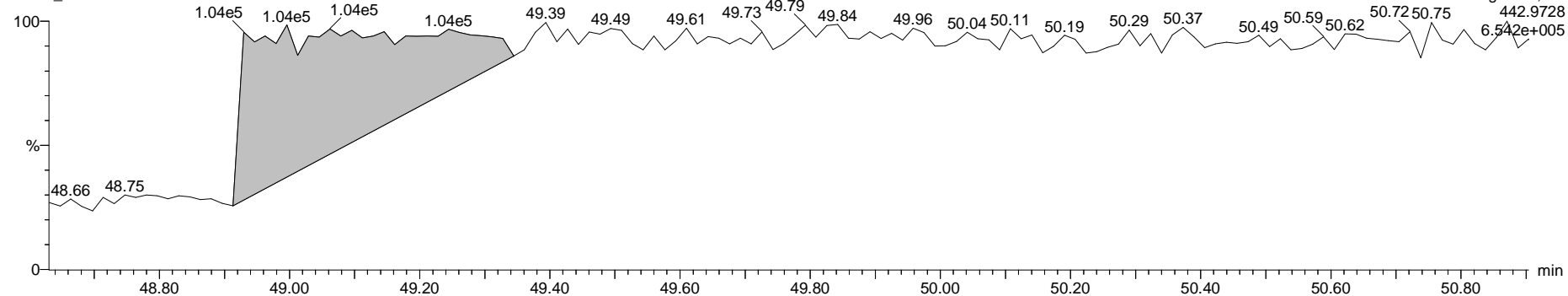
Deca DPE

DX9M_083S25 Smooth(SG,1x2)



Octa Lock

DX9M_083S25



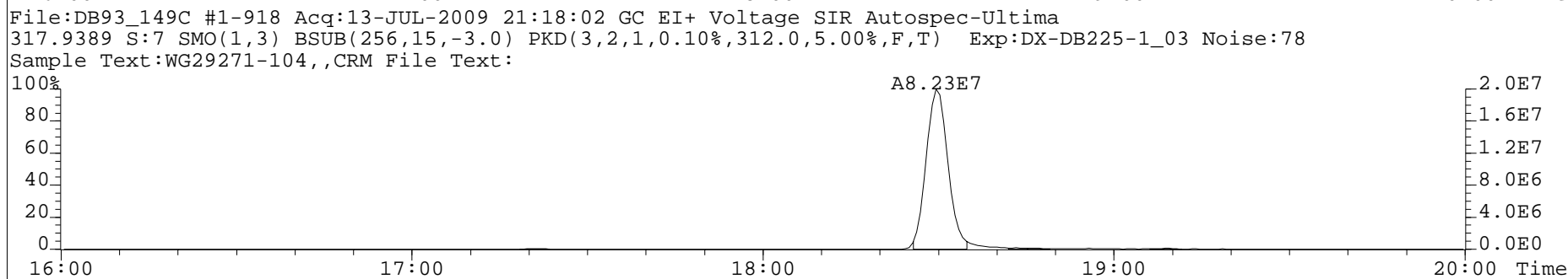
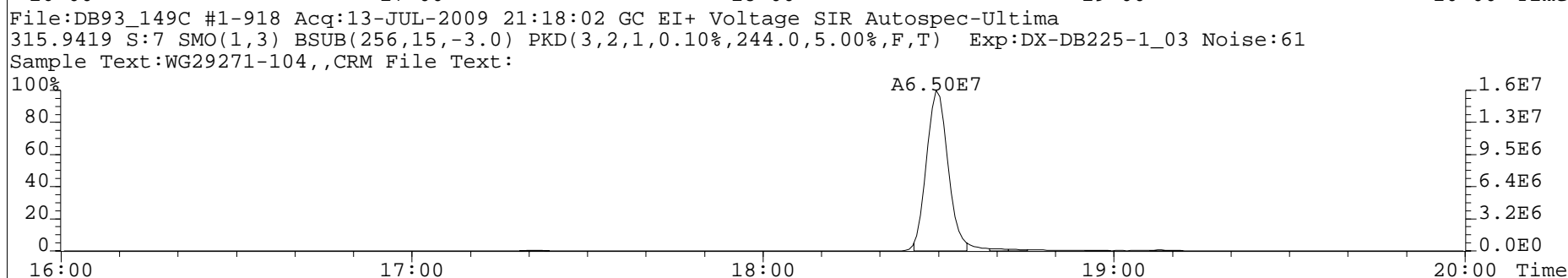
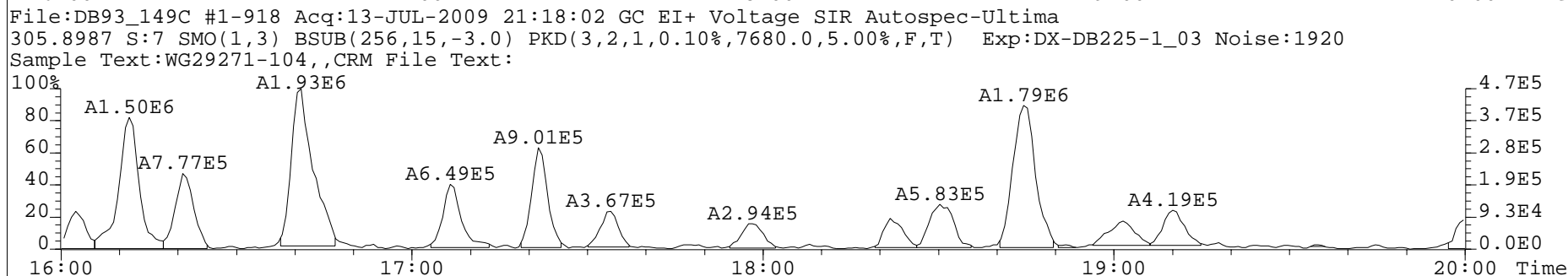
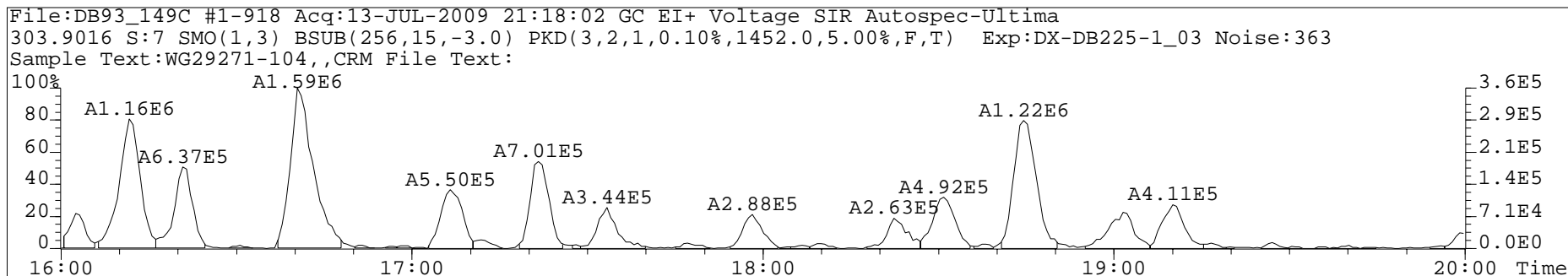
Run #12 Filename DB93_149C S: 7 I: 1 Acquired: 13-JUL-09 21:18:02 Processed: 15-JUL-09 14:03:43
 Run: db93_149c» Analyte: 1613B-db-s4 Cal: db93_146d» Results: db93_149c» Version: V3.6 6-JAN-2000 17:51:42
 Sample text: WG29271-104,,CRM Comments: 1,WG29271,2.0/20uL
 sample size: 0.500000 conc units: *ng/g* total toxicity: 3.72 F1: 1.0000 F2: 1.0000

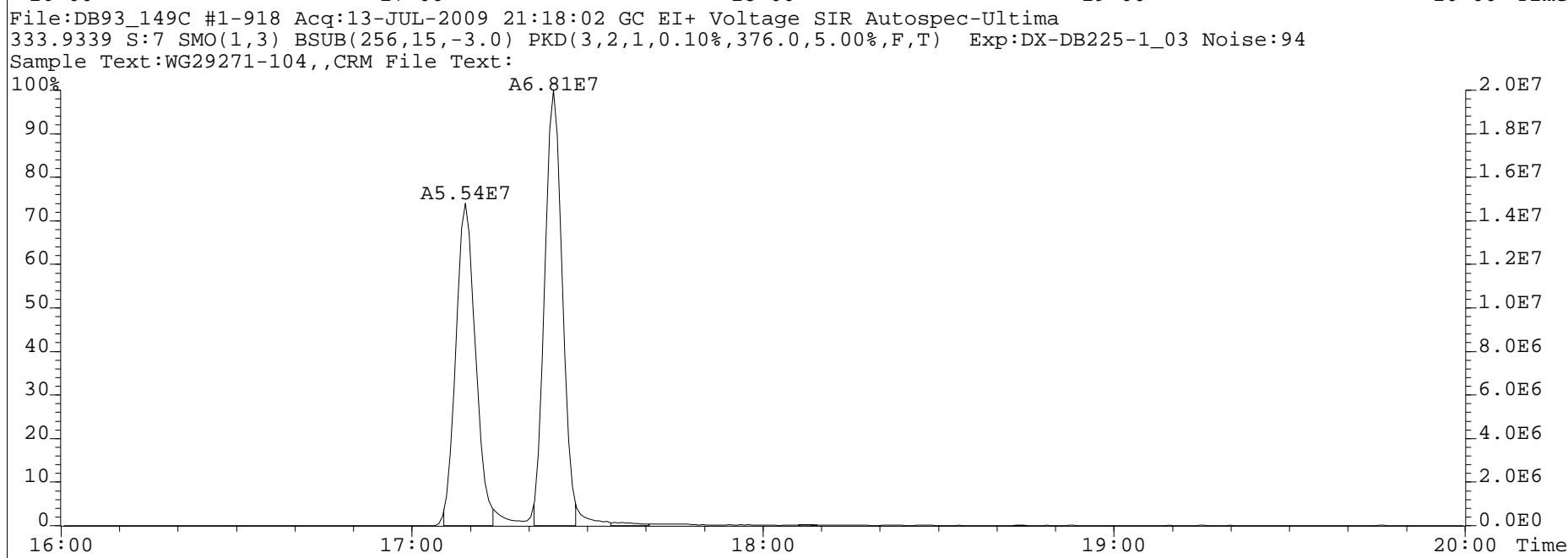
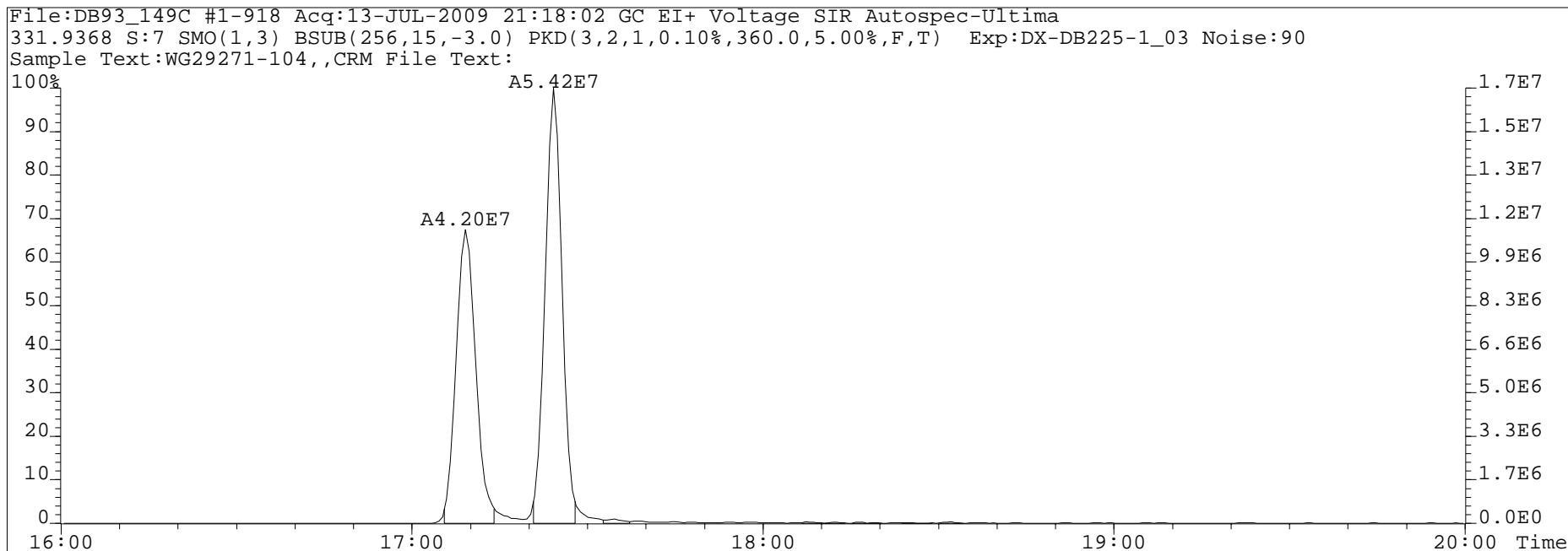
Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	1.07e+06	0.84	y 18:31	37.193	4	3.2503	-	n
2 IS/RT	13C-2,3,7,8-TCDF	1	1.47e+08	0.79	y 18:30	3306.781	-	0.1043	82.7	n
3 RS	13C-1,2,3,4-TCDD	1	1.22e+08	0.80	y 17:24	371.777	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

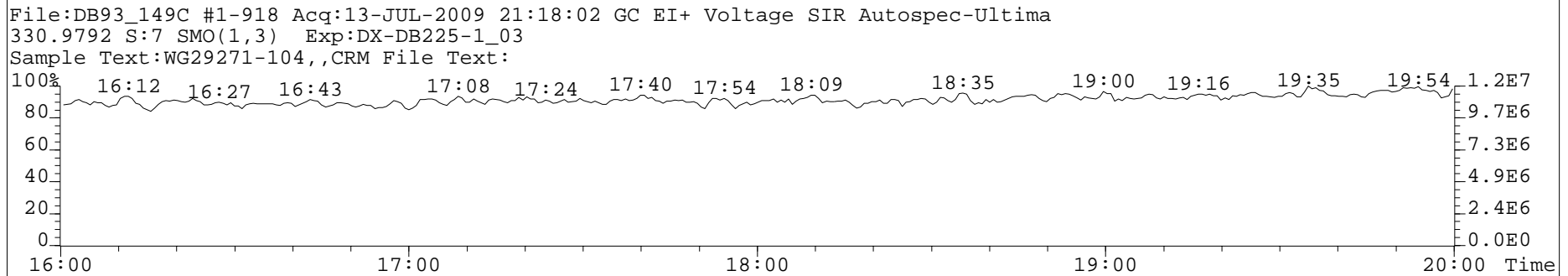
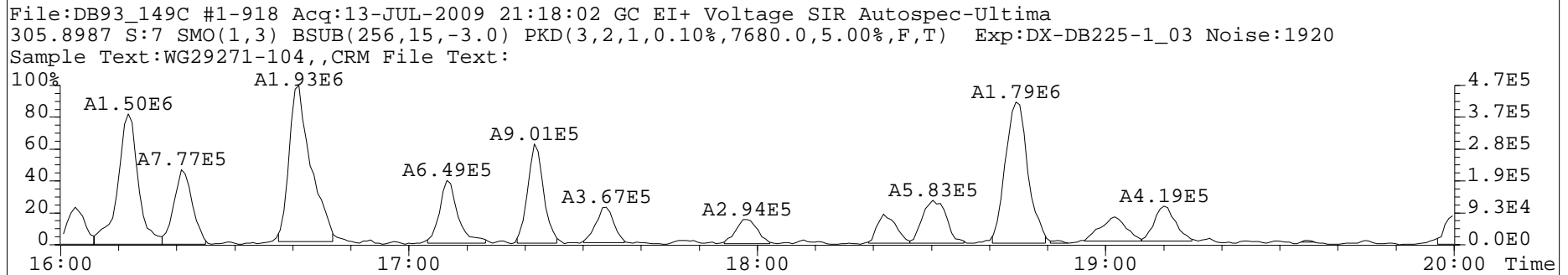
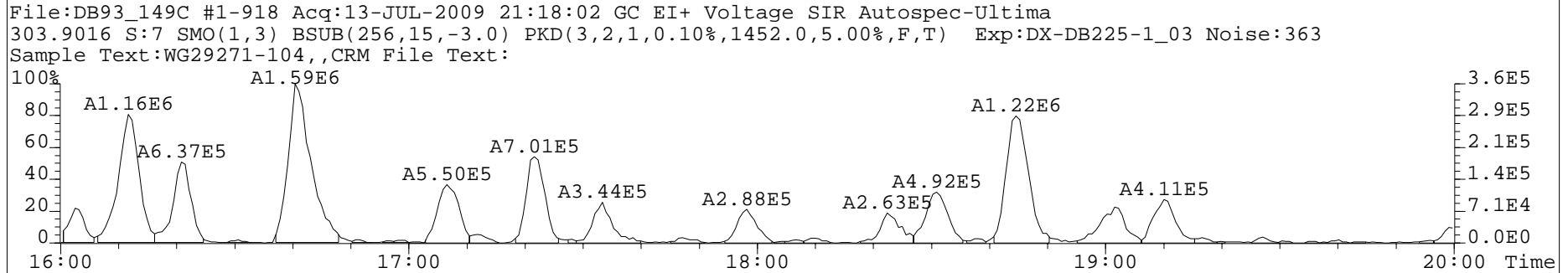
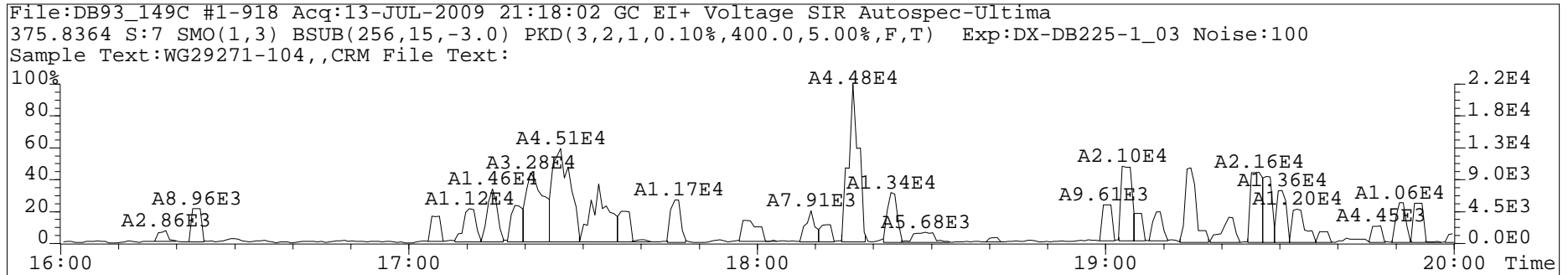
Svd BAA
23-Jul-09

PV BY int
15-July
Page 454 of 828









Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-A.cdb 22 Jun 2009 09:42:41

Compound name: -

#	Name	ID	Sample Text	Acq. Date	Acq. Time
1	DX9M_072S1	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	19-Jun-09	09:48:25
2	DX9M_072S2	DX036C-CAL,,/01-8	1,,1.0uL CS-2	19-Jun-09	10:40:46
3	DX9M_072S3	DX036B-CAL,,/01	1,,1.0uL CS-1	19-Jun-09	11:35:40
4	DX9M_072S4	DX036A-CAL,,/01-7	1,,1.0uL CS-0.2	19-Jun-09	12:30:44
5	DX9M_072S5	DX036A-CAL,,/01-7	1,,1.0uL CS-0.2	19-Jun-09	13:25:40
6	DX9M_072S6	DX036F-CAL,,/01-3	1,,1.0uL CS-5	19-Jun-09	14:20:37
7	DX9M_072S7	DX036E-CAL,,/01	1,,1.0uL CS-4	19-Jun-09	15:15:31
8	DX9M_072S8	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	19-Jun-09	16:10:33
9	DX9M_072S9	DX020B-SUR,,/06	1,,1.0uL Inst Blank	19-Jun-09	18:40:31
10	DX9M_072S10	DX020B-SUR,,/06	1,,1.0uL Inst Blank	19-Jun-09	19:32:51
11	DX9M_072S11	L12494-1,RLC,	1,WG28972,1.0/20uL	19-Jun-09	20:27:47
12	DX9M_072S12	L12756-2,LC,	1,WG28972,1.0/20uL	19-Jun-09	21:22:45
13	DX9M_072S13	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	19-Jun-09	22:17:48



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_072-A.qld

Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL_01, Description: 1,,1.0uL CS-1

File	Amount	Res	Ratio	Ratio	Ratio	RRF	RRF	Mean	RRF	RRF	RRF	RRF
2,3,7,8-TCDF	0.535	8.84e3	0.72	NO	25.29	0.775	0.7651	0.020				2.60
1,2,3,7,8-PeCDF	2.300	2.56e4	1.58	NO	33.64	0.799	0.8337	0.027				3.19
2,3,4,7,8-PeCDF	2.350	2.73e4	1.42	NO	35.40	0.855	0.8477	0.012				1.37
1,2,3,4,7,8-HxCDF	2.500	2.11e4	1.19	NO	40.76	0.925	0.9598	0.028				2.96
1,2,3,6,7,8-HxCDF	2.375	2.25e4	1.10	NO	40.92	0.880	0.9134	0.025				2.68
2,3,4,6,7,8-HxCDF	2.650	2.25e4	1.14	NO	41.87	0.878	0.8687	0.021				2.42
1,2,3,7,8,9-HxCDF	2.625	1.93e4	1.24	NO	42.89	0.808	0.8083	0.025				3.08
1,2,3,4,6,7,8-HpCDF	2.500	1.95e4	0.95	NO	45.34	1.027	1.0563	0.017				1.65
1,2,3,4,7,8,9-HpCDF	2.500	1.72e4	0.95	NO	47.12	0.993	0.9574	0.023				2.43
OCDF	5.200	3.94e4	0.84	NO	50.36	0.801	0.8587	0.034				4.01
2,3,7,8-TCDD	0.500	7.35e3	0.74	NO	26.50	0.914	0.8954	0.028				3.10
1,2,3,7,8-PeCDD	2.600	2.25e4	0.56	NO	36.21	0.870	0.8772	0.011				1.22
1,2,3,4,7,8-HxCDD	2.825	1.95e4	1.28	NO	42.14	0.802	0.8179	0.017				2.12
1,2,3,6,7,8-HxCDD	2.775	2.11e4	1.15	NO	42.27	0.741	0.7585	0.014				1.89
1,2,3,7,8,9-HxCDD	2.700	1.85e4	1.18	NO	42.70	0.726	0.7714	0.028				3.69
1,2,3,4,6,7,8-HpCDD	2.375	1.90e4	1.01	NO	46.70	0.953	0.9637	0.013				1.31
OCDD	5.000	4.34e4	0.92	NO	50.27	0.916	0.9273	0.011				1.19
13C-2,3,7,8-TCDF	100.000	2.13e6	0.77	NO	25.26	1.367	1.4191	0.044				3.09
13C-1,2,3,7,8-PeCDF	100.000	1.39e6	1.54	NO	33.81	0.894	0.9902	0.116				11.71
13C-2,3,4,7,8-PeCDF	100.000	1.36e6	1.54	NO	35.38	0.869	0.9637	0.104				10.81
13C-1,2,3,4,7,8-HxCDF	100.000	9.13e5	0.50	NO	40.74	1.022	1.0195	0.018				1.80
13C-1,2,3,6,7,8-HxCDF	100.000	1.08e6	0.51	NO	40.90	1.204	1.1864	0.072				6.09
13C-2,3,4,6,7,8-HxCDF	100.000	9.68e5	0.51	NO	41.84	1.084	1.0883	0.024				2.17
13C-1,2,3,7,8,9-HxCDF	100.000	9.10e5	0.50	NO	42.88	1.019	1.0157	0.013				1.28
13C-1,2,3,4,6,7,8-HpCDF	100.000	7.61e5	0.44	NO	45.32	0.852	0.8166	0.038				4.60
13C-1,2,3,4,7,8,9-HpCDF	100.000	6.92e5	0.44	NO	47.10	0.775	0.7522	0.034				4.52
13C-2,3,7,8-TCDD	100.000	1.61e6	0.78	NO	26.48	1.031	1.0907	0.056				5.15
13C-1,2,3,7,8-PeCDD	100.000	9.95e5	0.61	NO	36.18	0.637	0.7058	0.095				13.51
13C-1,2,3,4,7,8-HxCDD	100.000	8.61e5	1.24	NO	42.12	0.964	0.9752	0.018				1.89
13C-1,2,3,6,7,8-HxCDD	100.000	1.03e6	1.24	NO	42.25	1.150	1.1388	0.022				1.87
13C-1,2,3,4,6,7,8-HpCDD	100.000	8.38e5	1.01	NO	46.68	0.938	0.8543	0.055				6.40
13C-OCDD	200.000	1.89e6	0.87	NO	50.26	1.060	0.9704	0.068				6.98
13C-1,2,3,4-TCDD	100.000	1.56e6	0.78	NO	26.15	15607.0...	17709.6245	3308.886				18.68
13C-1,2,3,7,8,9-HxCDD	100.000	8.93e5	1.23	NO	42.68	8933.807	11256.8637	2809.862				24.96
37Cl-2,3,7,8-TCDD	0.500	9.17e3			26.51	1.175	1.1915	0.058				4.87
Total Tetra-Furans	0.547						0.7651	0.020				2.60
Total Tetra-Dioxins	0.529						0.8954	0.028				3.10
Total Penta-Furans	2.500						0.8337	0.027				3.19
Total Penta-Dioxins	2.828						0.8772	0.011				1.22
Total Hexa-Furans	2.500						0.9598	0.028				2.96
Total Hexa-Dioxins	2.500						0.8179	0.017				2.12
Total Hepta-Furans	2.500						1.0563	0.017				1.65
Total Hepta-Dioxins	2.500						0.9637	0.013				1.31
Hexa DPE	0.000	8.76e1			23.13	0.000						
Hepta DPE	0.000	1.10e2			34.10	0.000						
Octa DPE	0.000	6.76e1			41.51	0.000						
Nona DPE	0.000	1.01e2			46.55	0.000						
Deca DPE	0.000											
Tetra Lock	0.000	2.87e4			24.94	0.000						
Penta Lock	0.000	6.14e5			28.99	0.000						
Hexa Lock	0.000	2.61e6			41.18	0.000						
Hepta Lock	0.000	3.46e4			45.04	0.000						
Octa Lock	0.000	5.06e5			49.18	0.000						

PV WL 22-JUN-2009



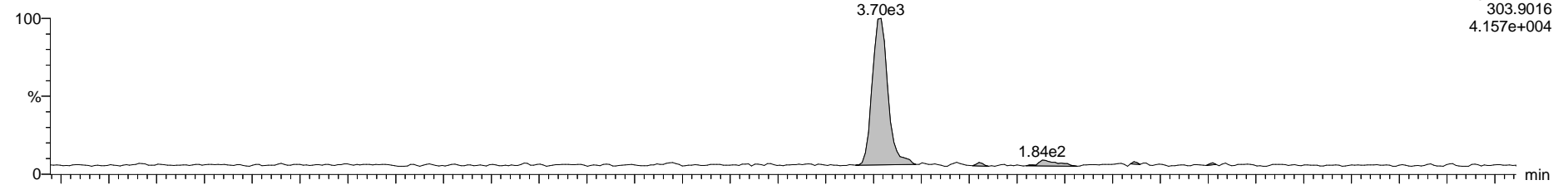
Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-A.cdb 22 Jun 2009 09:42:41

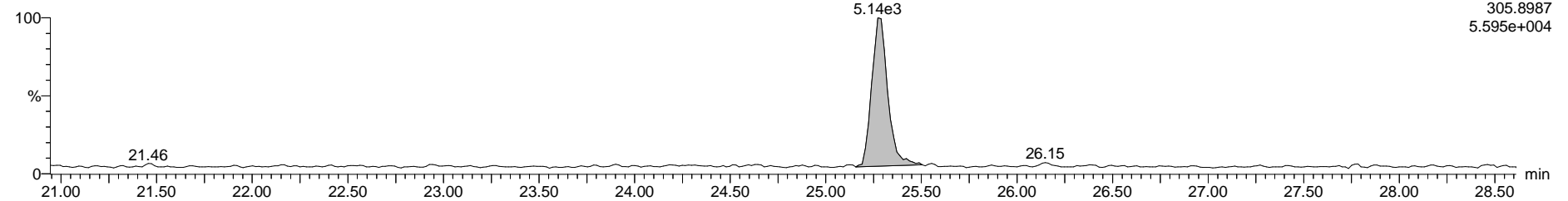
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Total Tetra-Furans

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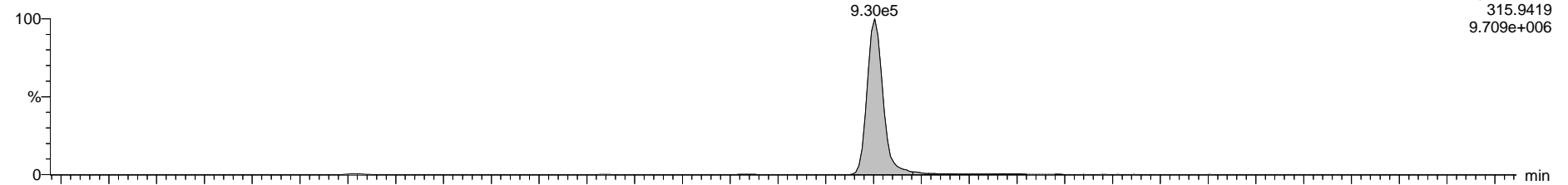


DX9M_072S3 Smooth(SG,1x2)

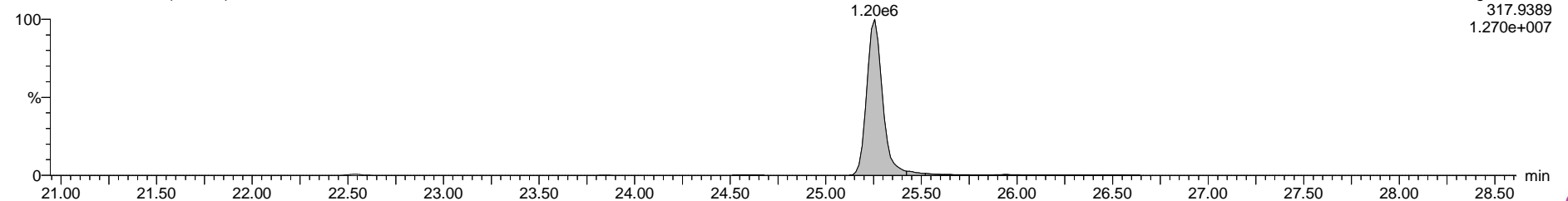


13C-2,3,7,8-TCDF

DX9M_072S3 Smooth(SG,1x2)



DX9M_072S3 Smooth(SG,1x2)

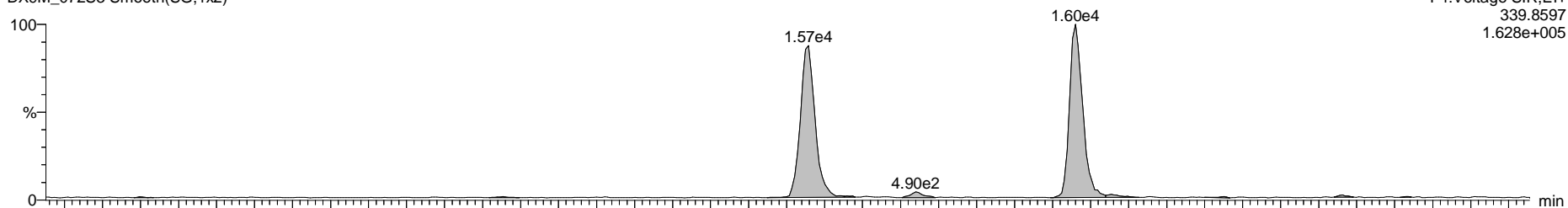


Axys Analytical Services, Ltd.

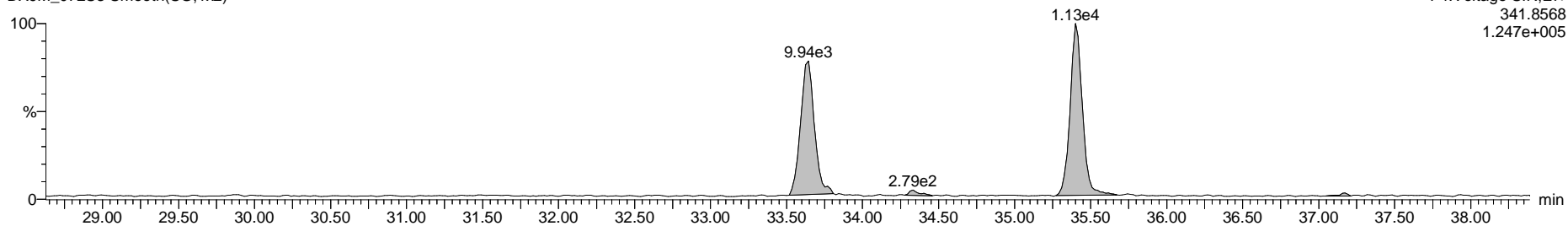
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Total Penta-Furans

DX9M_072S3 Smooth(SG,1x2)

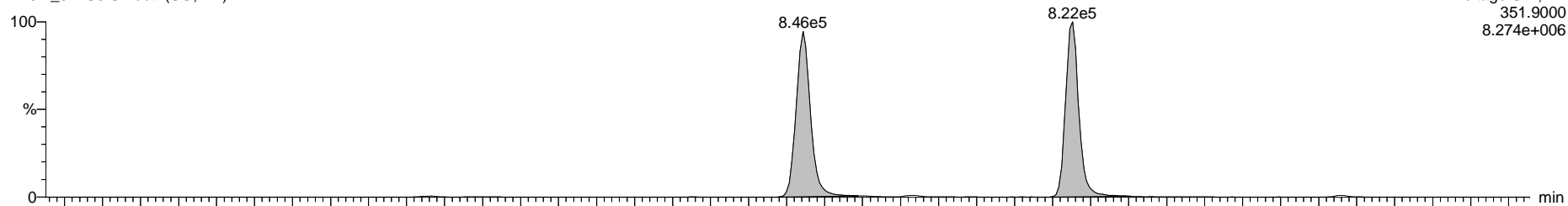


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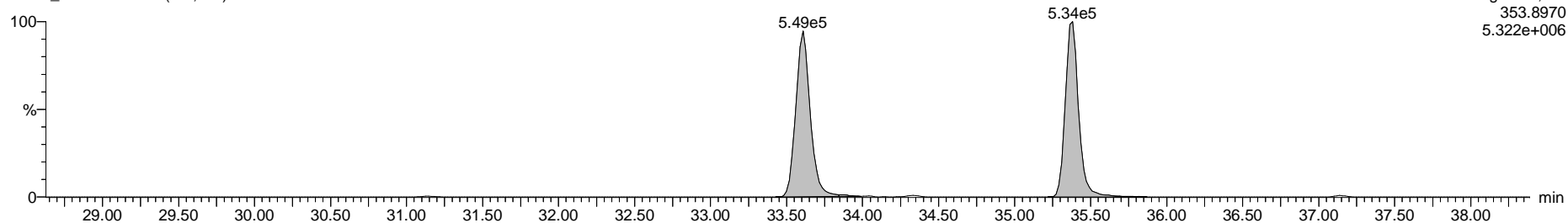


13C-1,2,3,7,8-PeCDF

DX9M_072S3 Smooth(SG,1x2)



DX9M_072S3 Smooth(SG,1x2)

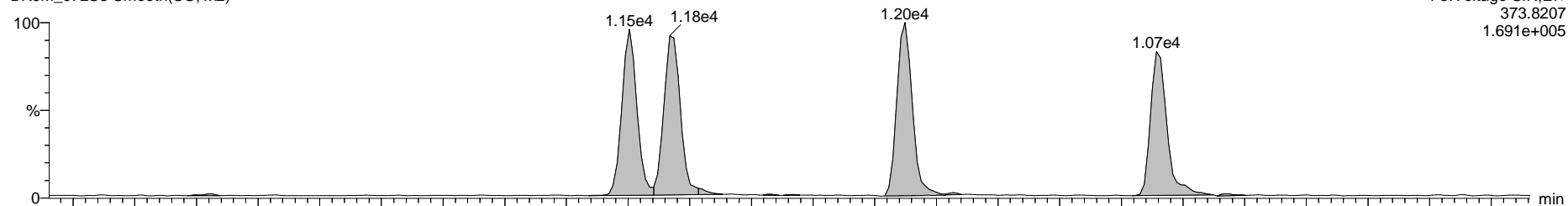


Axys Analytical Services, Ltd.

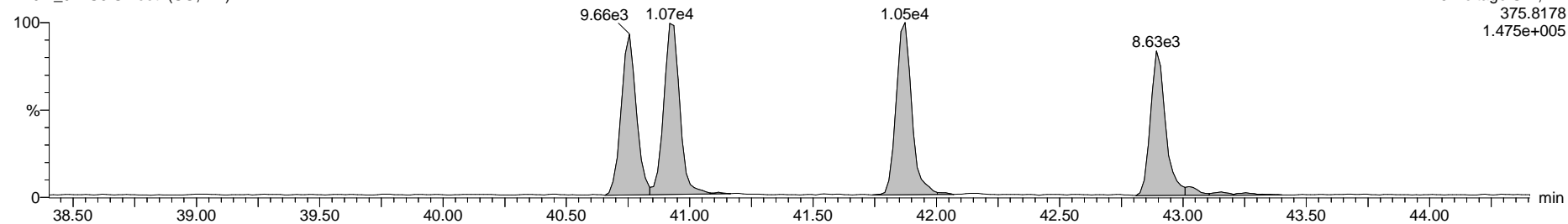
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Total Hexa-Furans

DX9M_072S3 Smooth(SG,1x2)

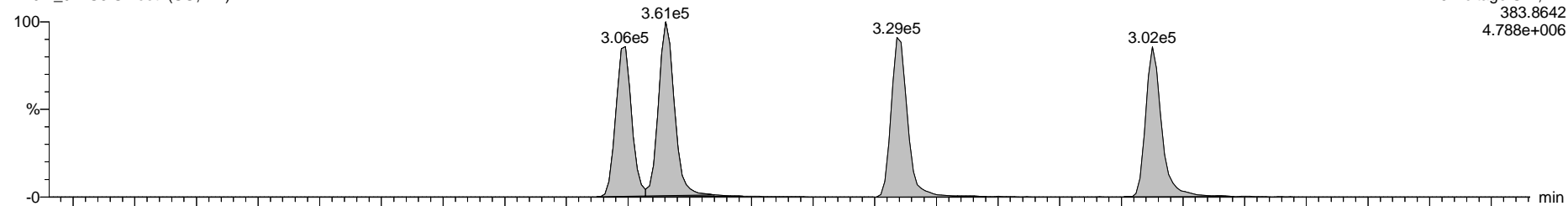


DX9M_072S3 Smooth(SG,1x2)

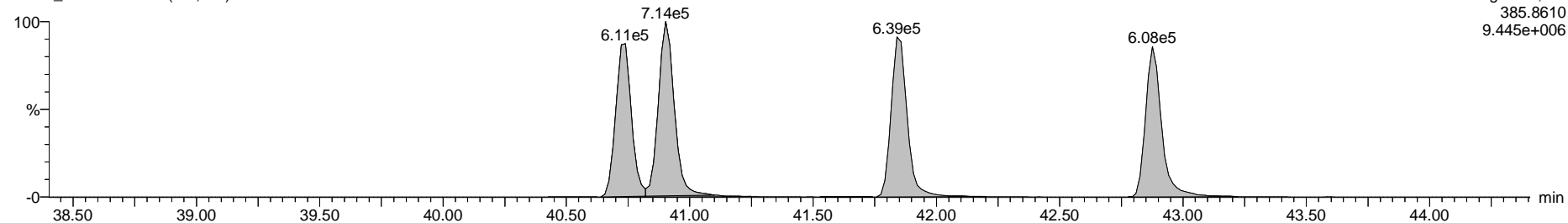


13C-1,2,3,4,7,8-HxCDF

DX9M_072S3 Smooth(SG,1x2)



DX9M_072S3 Smooth(SG,1x2)

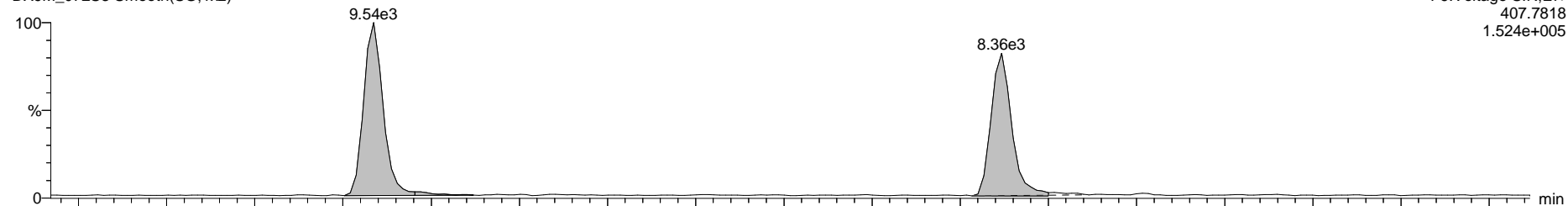


Axys Analytical Services, Ltd.

Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL,,/01, Description: 1,,1.0uL CS-1

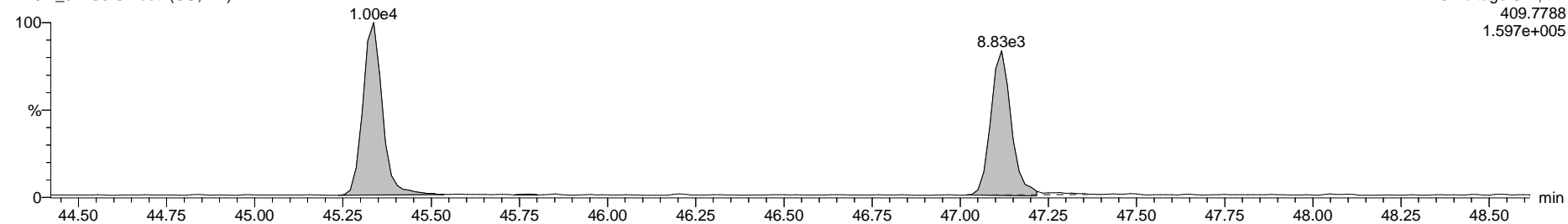
Total Hepta-Furans

DX9M_072S3 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
1.524e+005

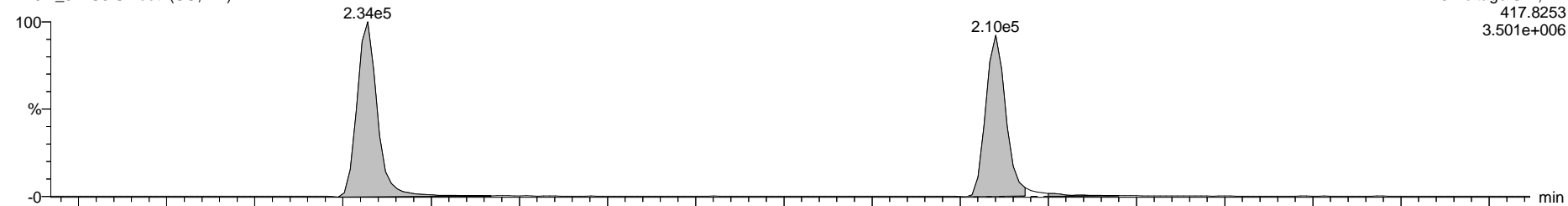
DX9M_072S3 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
1.597e+005

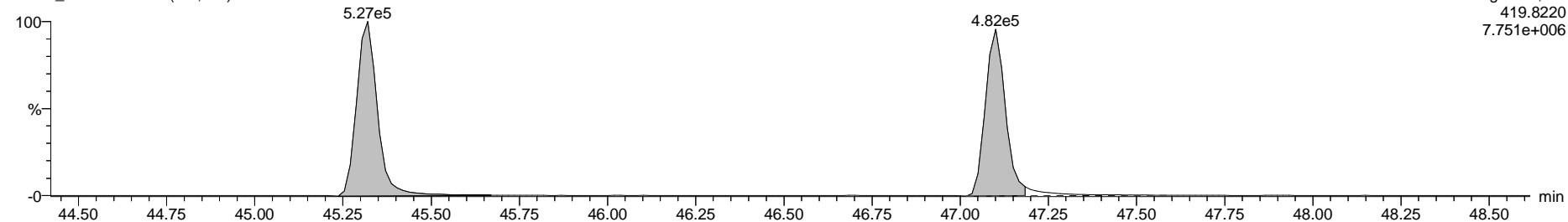
13C-1,2,3,4,6,7,8-HpCDF

DX9M_072S3 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
3.501e+006

DX9M_072S3 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
7.751e+006

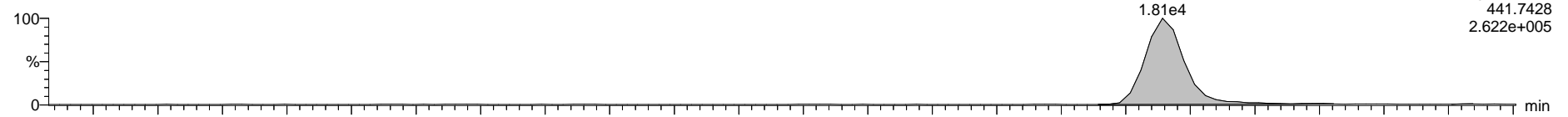


Axys Analytical Services, Ltd.

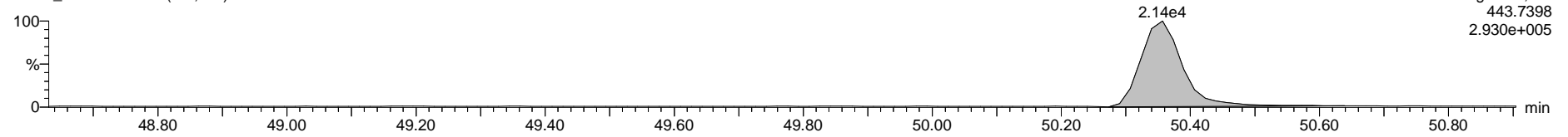
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OCDF

DX9M_072S3 Smooth(SG,1x2)

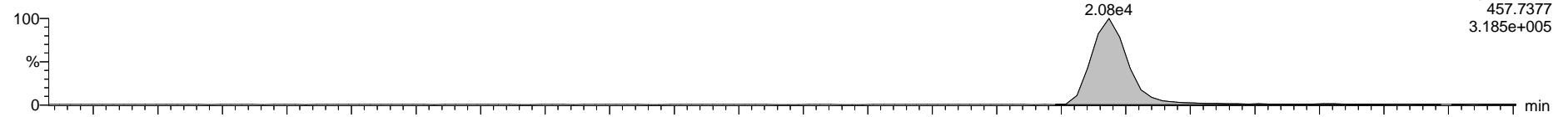


DX9M_072S3 Smooth(SG,1x2)

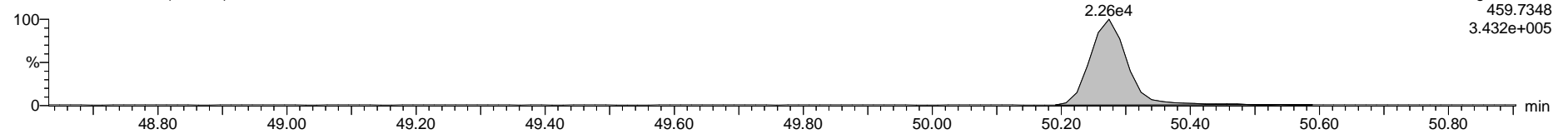


OCDD

DX9M_072S3 Smooth(SG,1x2)

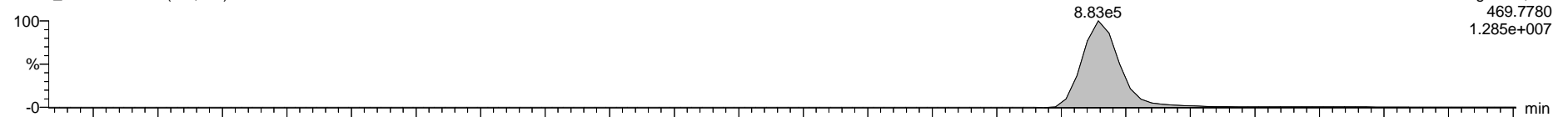


DX9M_072S3 Smooth(SG,1x2)

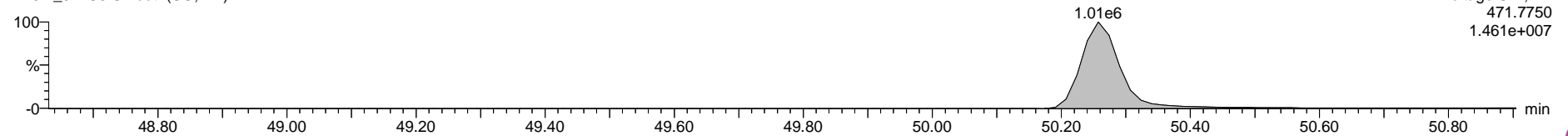


13C-OCDD

DX9M_072S3 Smooth(SG,1x2)



DX9M_072S3 Smooth(SG,1x2)

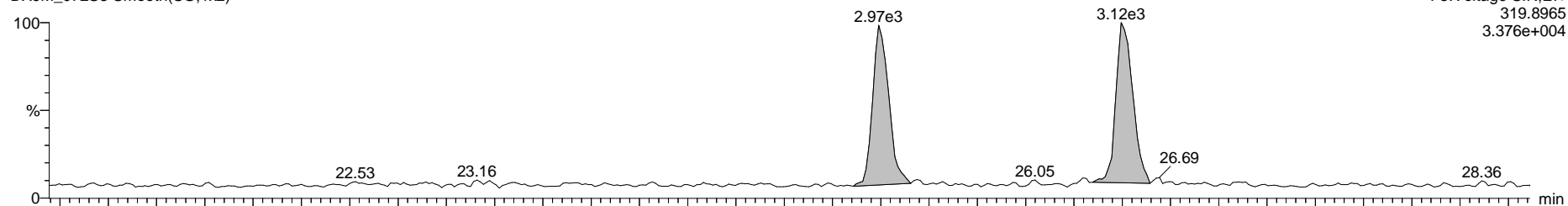


Axys Analytical Services, Ltd.

Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL,,/01, Description: 1,,1.0uL CS-1

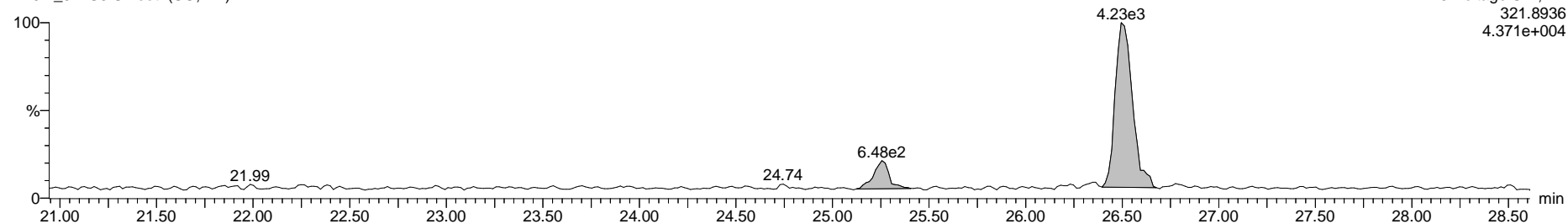
Total Tetra-Dioxins

DX9M_072S3 Smooth(SG,1x2)



F3:Voltage SIR,EI+
319.8965
3.376e+004

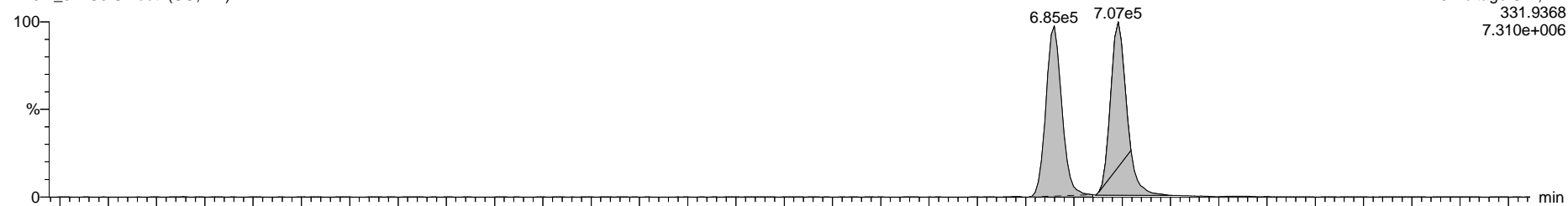
DX9M_072S3 Smooth(SG,1x2)



F3:Voltage SIR,EI+
321.8936
4.371e+004

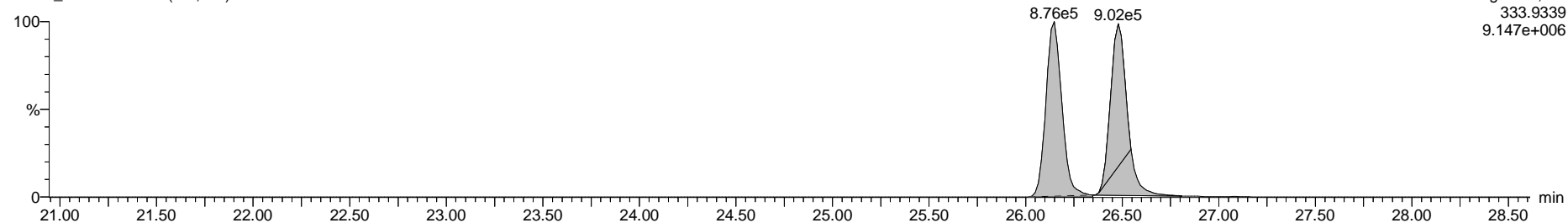
13C-2,3,7,8-TCDD

DX9M_072S3 Smooth(SG,1x2)



F3:Voltage SIR,EI+
331.9368
7.310e+006

DX9M_072S3 Smooth(SG,1x2)



F3:Voltage SIR,EI+
333.9339
9.147e+006

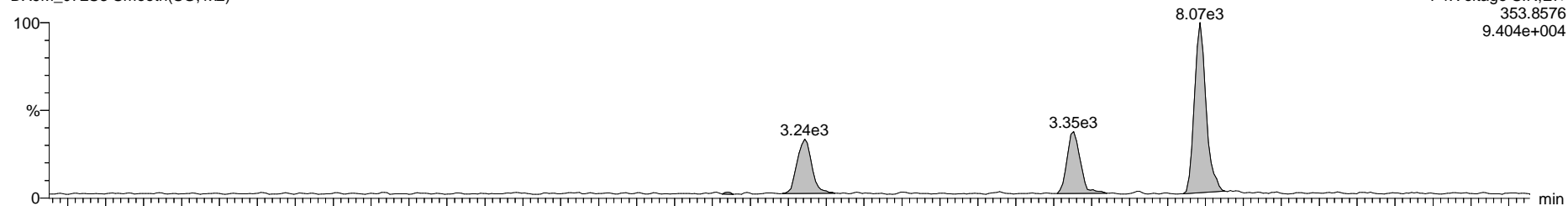


Axys Analytical Services, Ltd.

Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL,,/01, Description: 1,,1.0uL CS-1

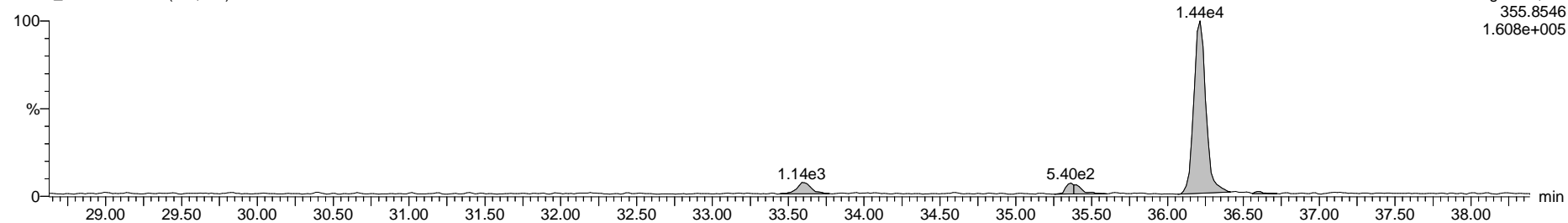
Total Penta-Dioxins

DX9M_072S3 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8576
9.404e+004

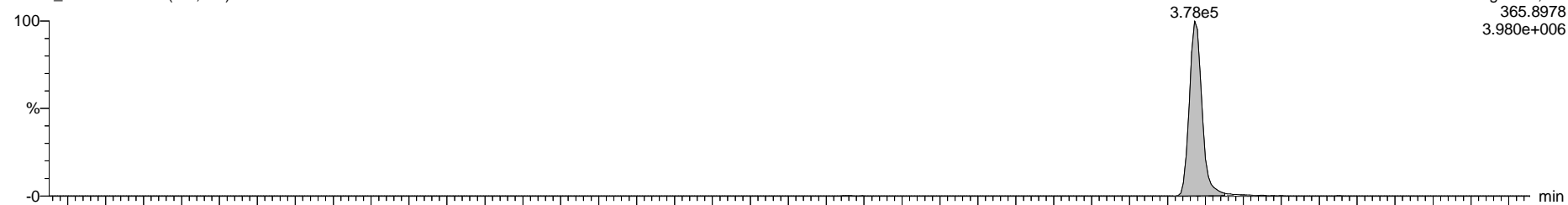
DX9M_072S3 Smooth(SG,1x2)



F4:Voltage SIR,EI+
355.8546
1.608e+005

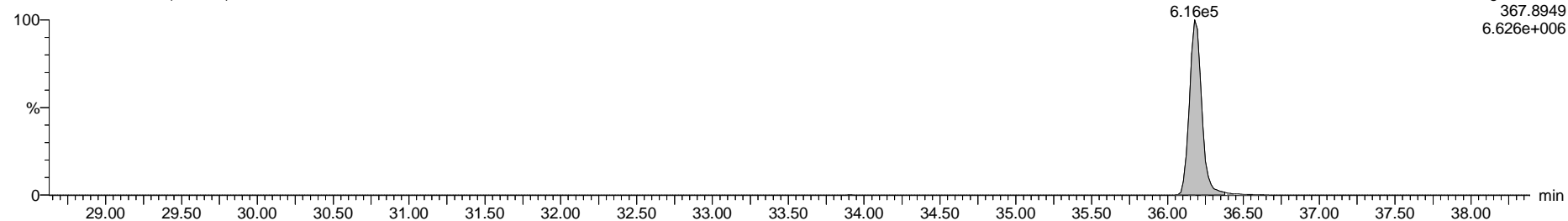
13C-1,2,3,7,8-PeCDD

DX9M_072S3 Smooth(SG,1x2)



F4:Voltage SIR,EI+
365.8978
3.980e+006

DX9M_072S3 Smooth(SG,1x2)



F4:Voltage SIR,EI+
367.8949
6.626e+006

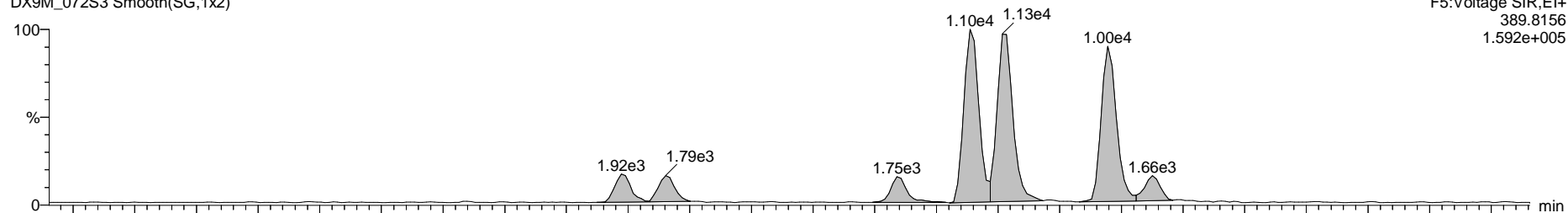


Axys Analytical Services, Ltd.

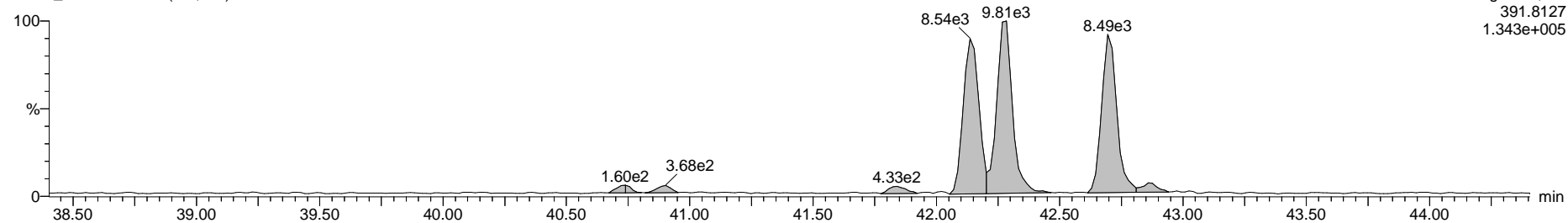
Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL,,/01, Description: 1,,1.0uL CS-1

Total Hexa-Dioxins

DX9M_072S3 Smooth(SG,1x2)

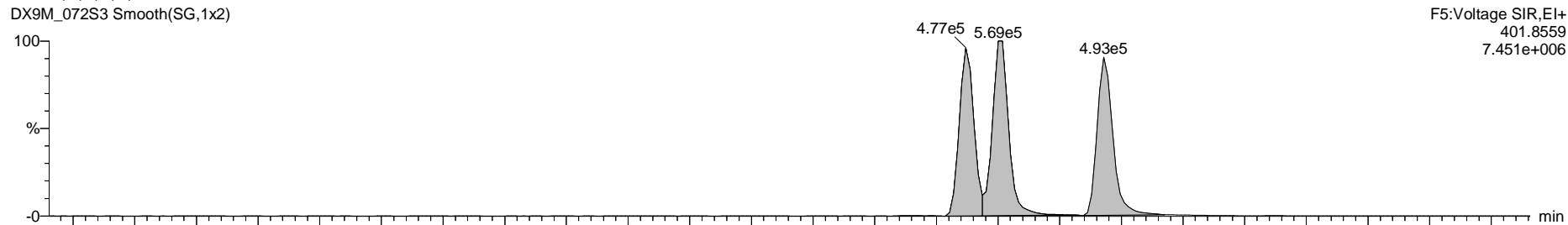


DX9M_072S3 Smooth(SG,1x2)

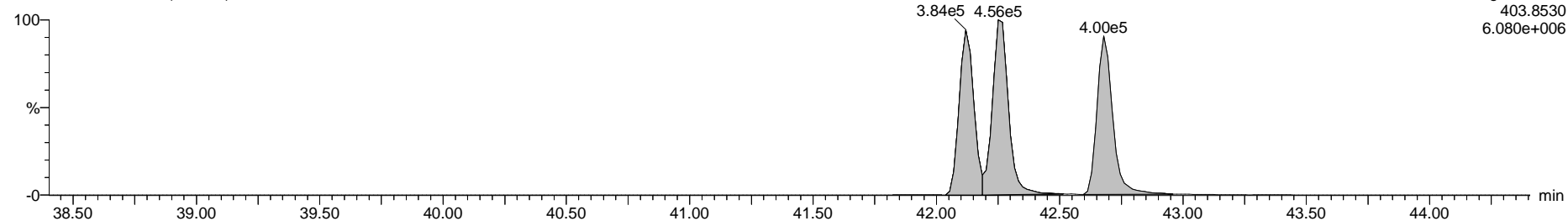


13C-1,2,3,4,7,8-HxCDD

DX9M_072S3 Smooth(SG,1x2)



DX9M_072S3 Smooth(SG,1x2)

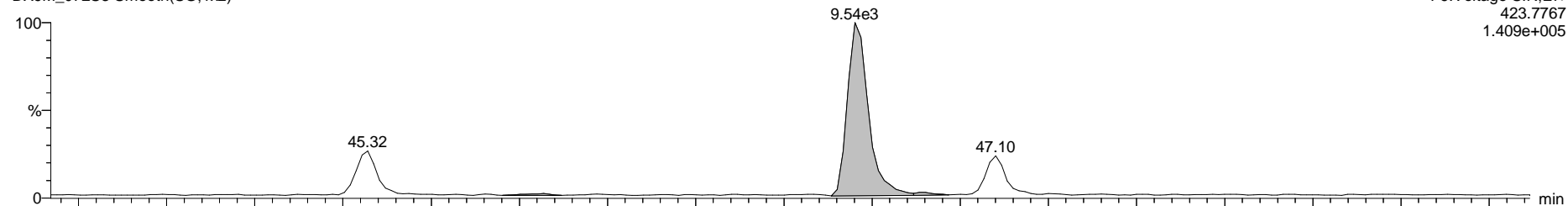


Axys Analytical Services, Ltd.

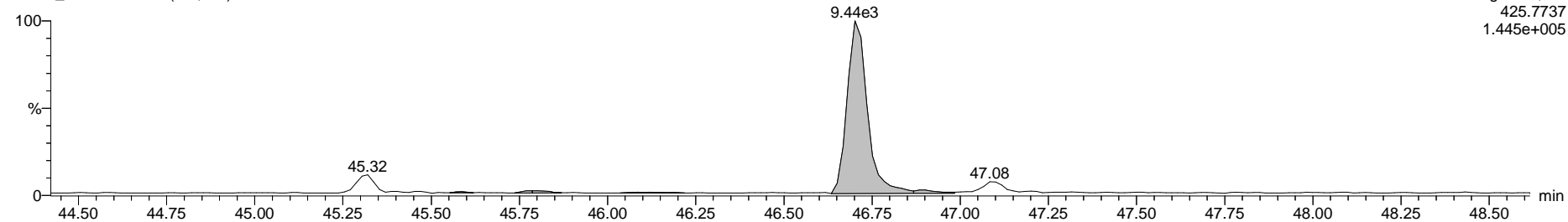
Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL,,/01, Description: 1,,1.0uL CS-1

Total Hepta-Dioxins

DX9M_072S3 Smooth(SG,1x2)

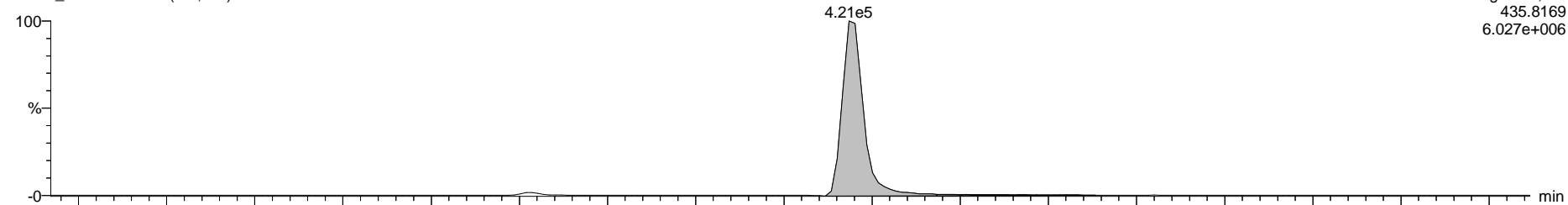


DX9M_072S3 Smooth(SG,1x2)

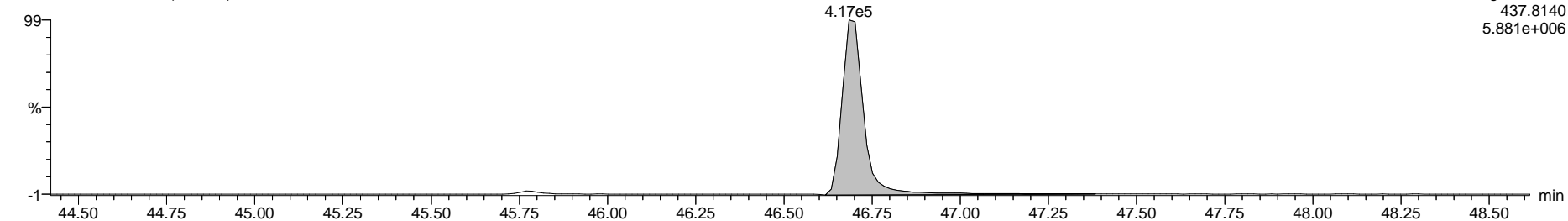


13C-1,2,3,4,6,7,8-HpCDD

DX9M_072S3 Smooth(SG,1x2)



DX9M_072S3 Smooth(SG,1x2)

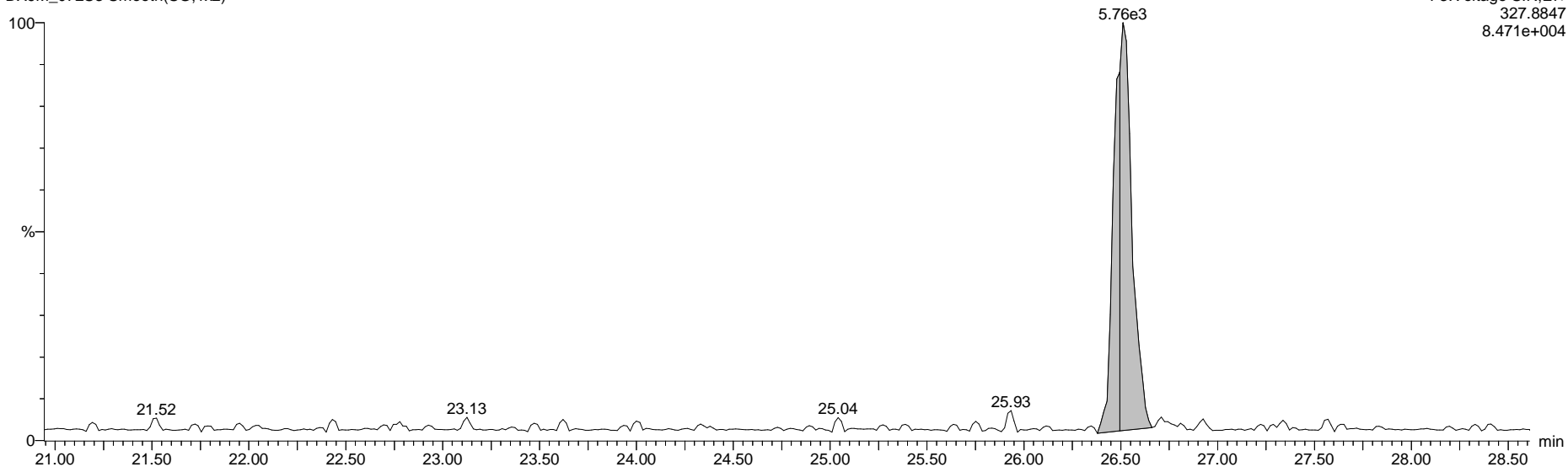


Axys Analytical Services, Ltd.

Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL,,/01, Description: 1,,1.0uL CS-1

37Cl-2,3,7,8-TCDD

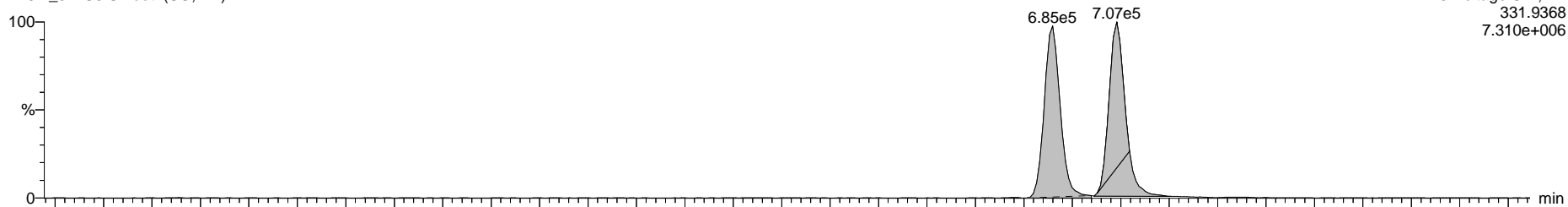
DX9M_072S3 Smooth(SG,1x2)



F3:Voltage SIR,EI+
327.8847
8.471e+004

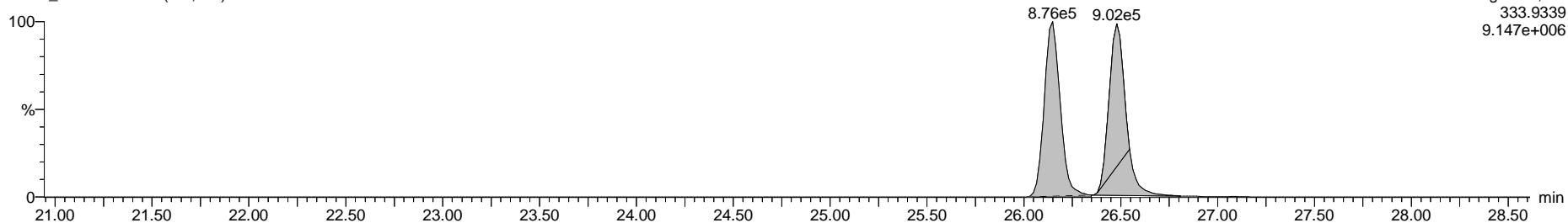
13C-1,2,3,4-TCDD

DX9M_072S3 Smooth(SG,1x2)



F3:Voltage SIR,EI+
331.9368
7.310e+006

DX9M_072S3 Smooth(SG,1x2)



F3:Voltage SIR,EI+
333.9339
9.147e+006

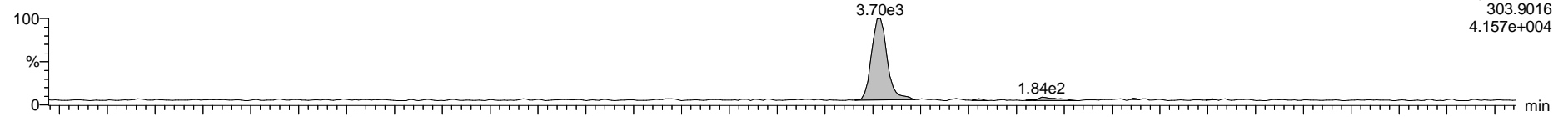


Axys Analytical Services, Ltd.

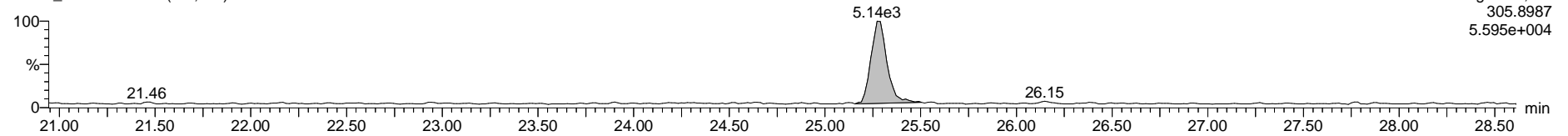
Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL,,/01, Description: 1,,1.0uL CS-1

Total Tetra-Furans

DX9M_072S3 Smooth(SG,1x2)

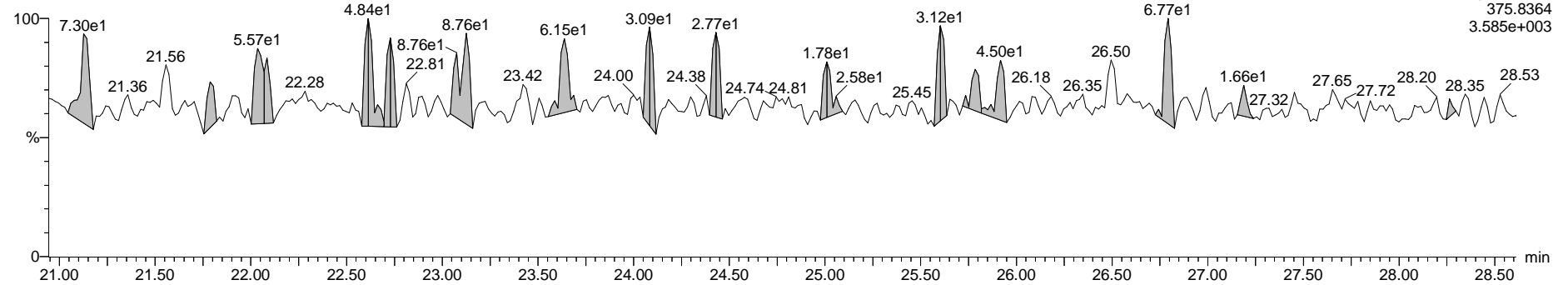


DX9M_072S3 Smooth(SG,1x2)



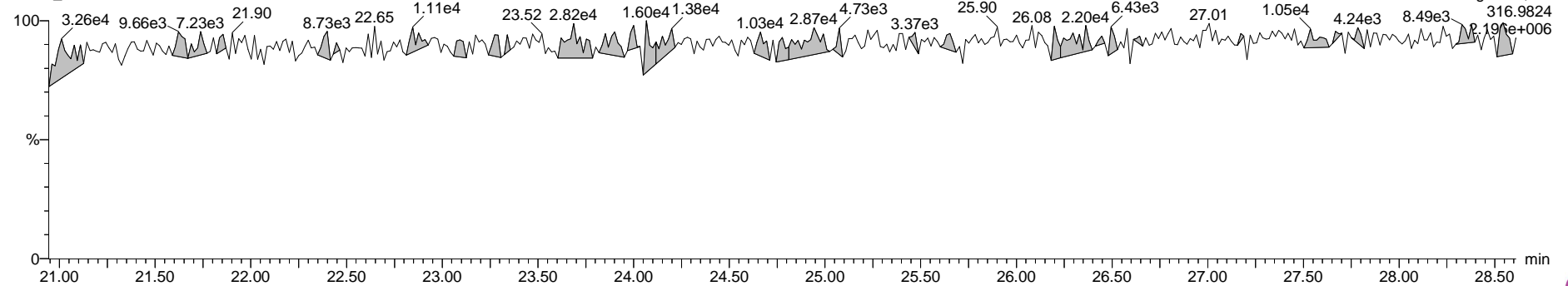
Hexa DPE

DX9M_072S3 Smooth(SG,1x2)



Tetra Lock

DX9M_072S3

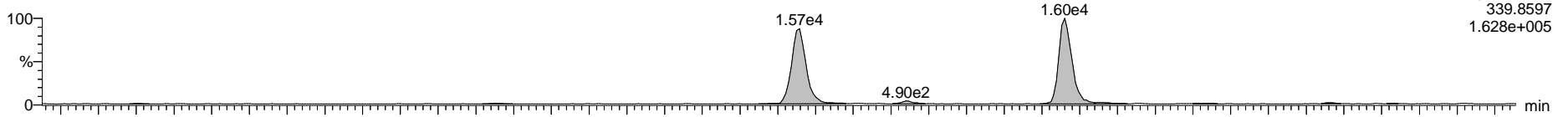


Axys Analytical Services, Ltd.

Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL,,/01, Description: 1,,1.0uL CS-1

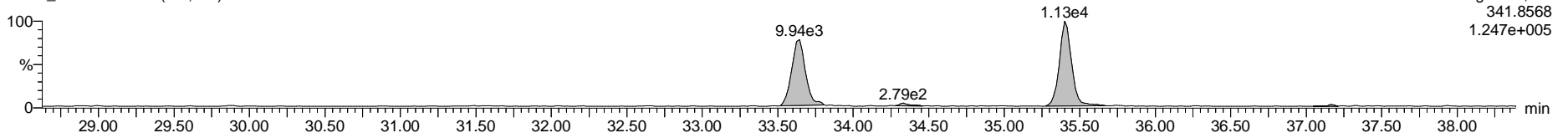
Total Penta-Furans

DX9M_072S3 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
1.628e+005

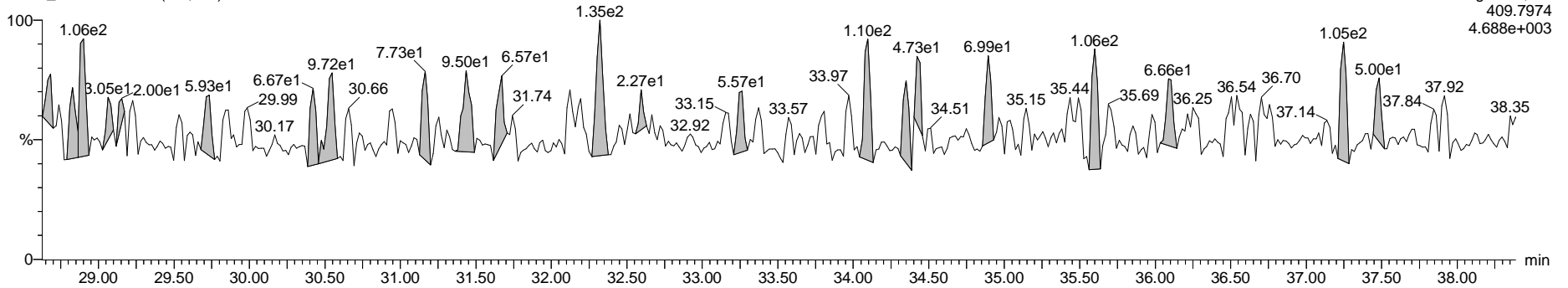
DX9M_072S3 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
1.247e+005

Hepta DPE

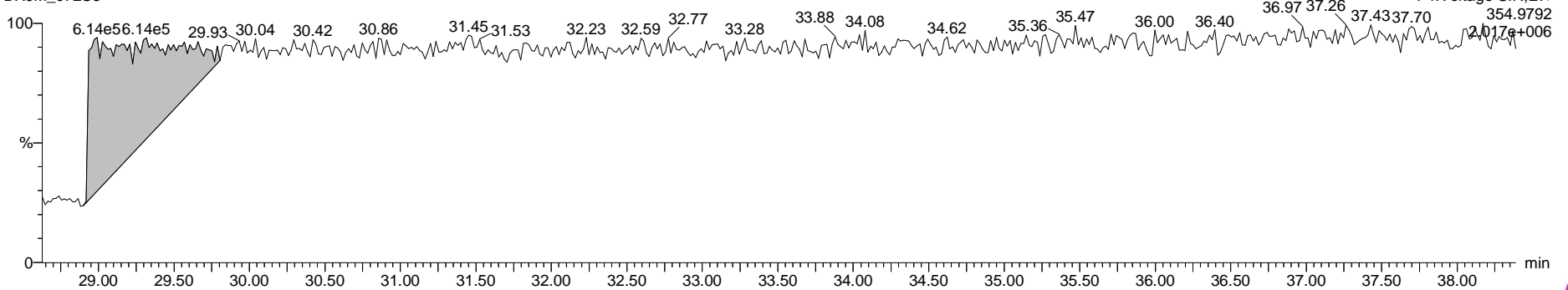
DX9M_072S3 Smooth(SG,1x2)



F4:Voltage SIR,EI+
409.7974
4.688e+003

Penta Lock

DX9M_072S3



F4:Voltage SIR,EI+
354.9792
2.017e+006

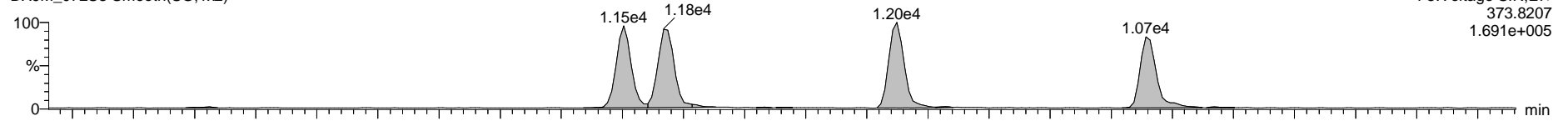


Axys Analytical Services, Ltd.

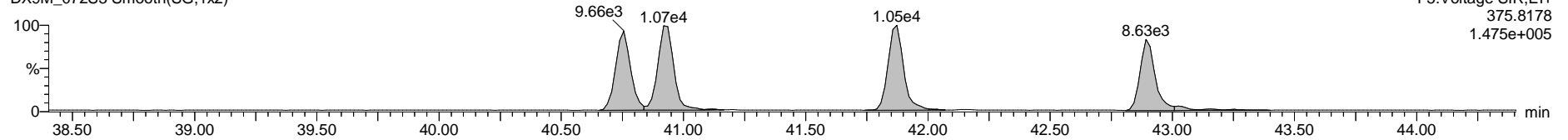
Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL,,/01, Description: 1,,1.0uL CS-1

Total Hexa-Furans

DX9M_072S3 Smooth(SG,1x2)

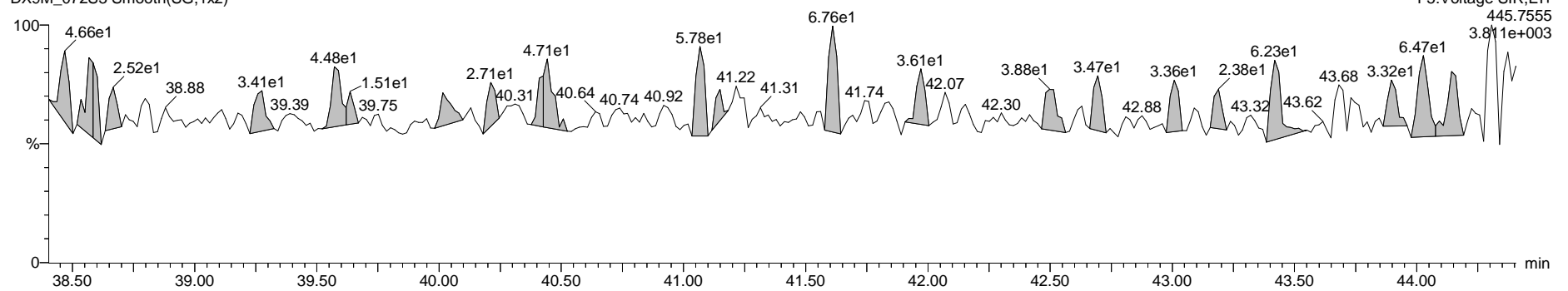


DX9M_072S3 Smooth(SG,1x2)



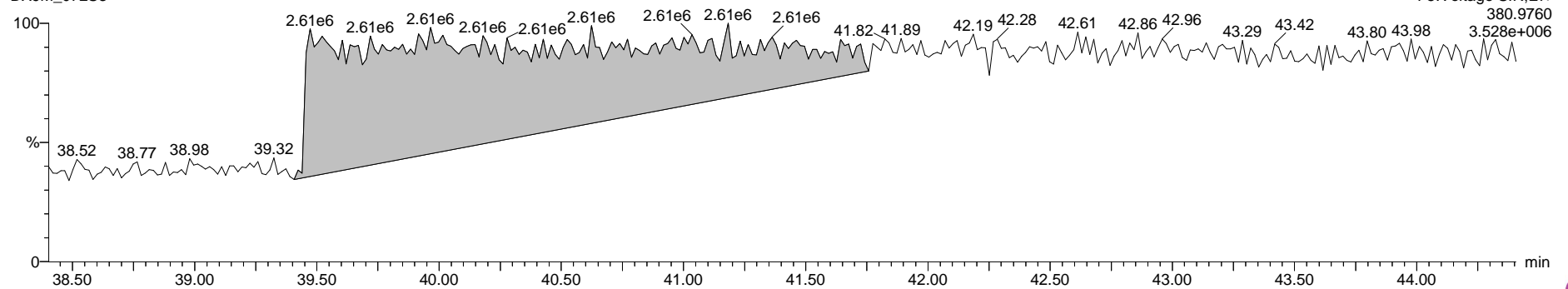
Octa DPE

DX9M_072S3 Smooth(SG,1x2)



Hexa Lock

DX9M_072S3

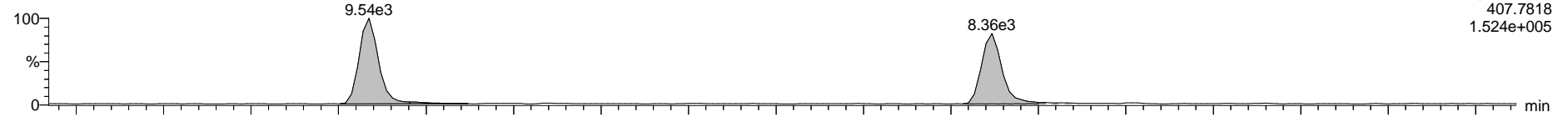


Axys Analytical Services, Ltd.

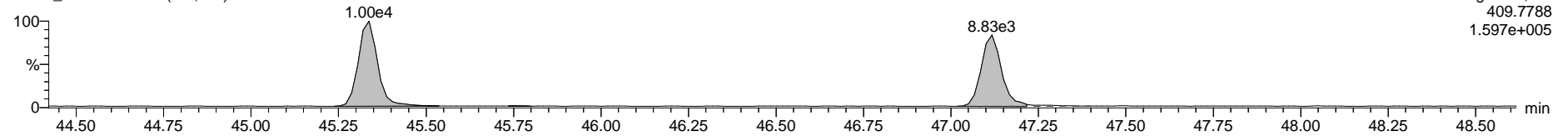
Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL, /01, Description: 1,,1.0uL CS-1

Total Hepta-Furans

DX9M_072S3 Smooth(SG,1x2)

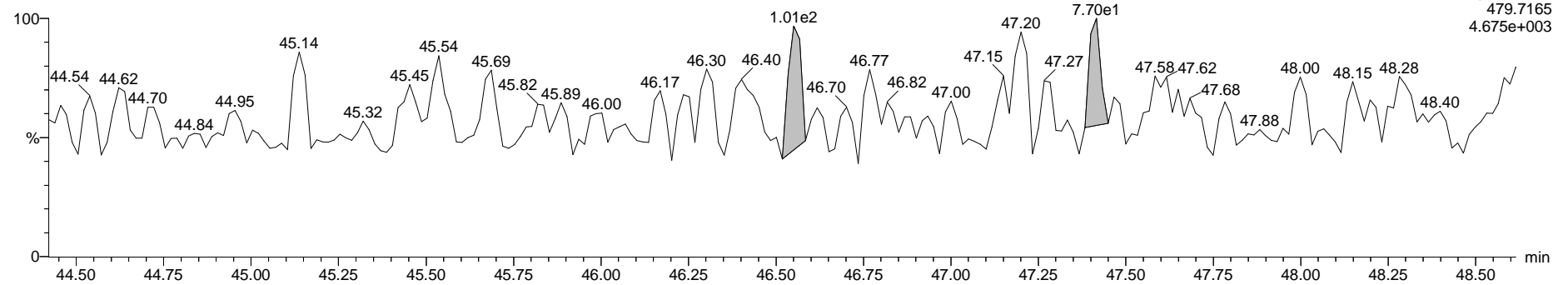


DX9M_072S3 Smooth(SG,1x2)



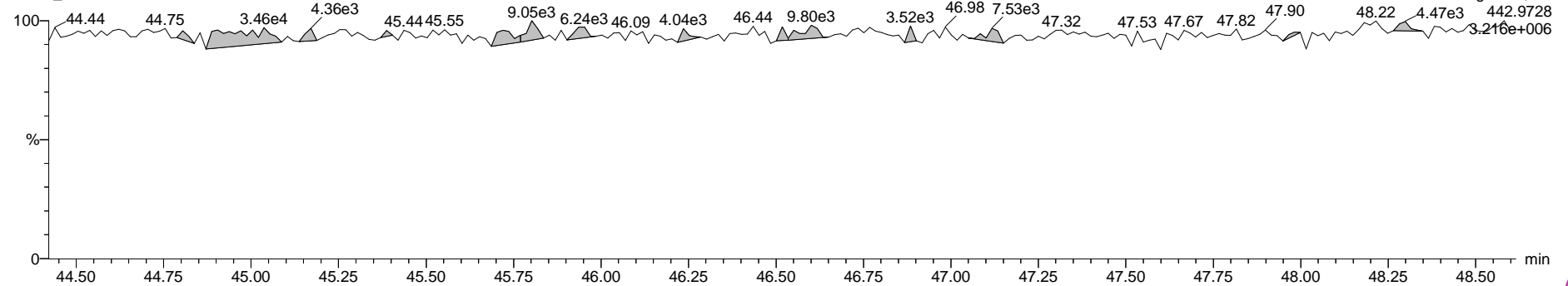
Nona DPE

DX9M_072S3 Smooth(SG,1x2)



Hepta Lock

DX9M_072S3

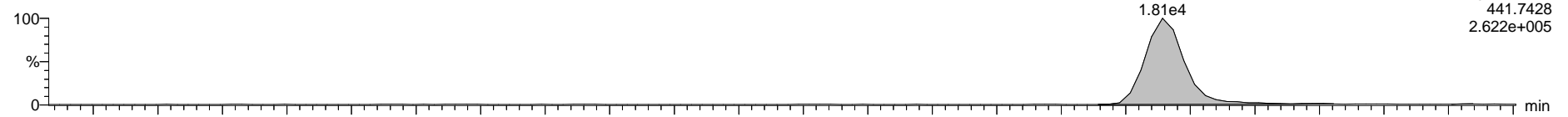


Axys Analytical Services, Ltd.

Name: DX9M_072S3, Date: 19-Jun-2009, Time: 11:35:40, ID: DX036B-CAL, /01, Description: 1,,1.0uL CS-1

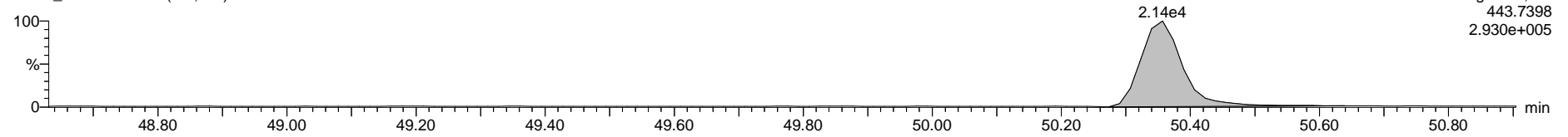
OCDF

DX9M_072S3 Smooth(SG,1x2)



F7:Voltage SIR,EI+
441.7428
2.622e+005

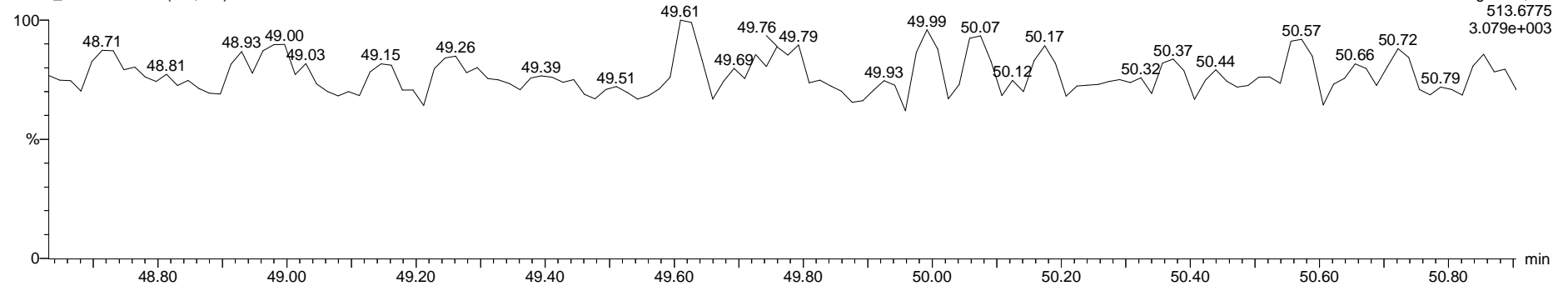
DX9M_072S3 Smooth(SG,1x2)



F7:Voltage SIR,EI+
443.7398
2.930e+005

Deca DPE

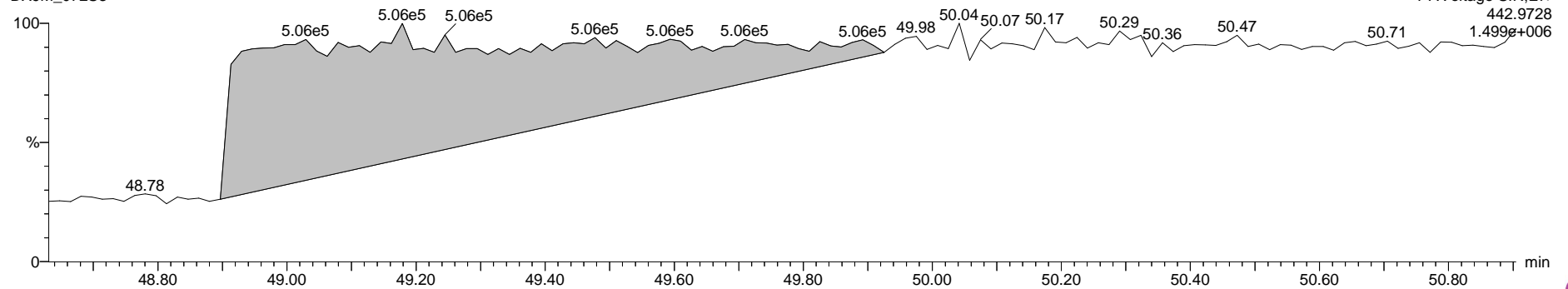
DX9M_072S3 Smooth(SG,1x2)



F7:Voltage SIR,EI+
513.6775
3.079e+003

Octa Lock

DX9M_072S3



F7:Voltage SIR,EI+
442.9728
1.499e+006



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_072-A.qld

Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL,,/01-8, Description: 1,,1.0uL CS-2

	Name	Amount	Resp	Ratio	Pass?	RT	RRF	RRF:Mean	RRF:SD	RRF:%Rat:SD
1	2,3,7,8-TCDF	2.140	3.96e4	0.71	NO	25.29	0.773	0.7651	0.020	2.60
2	1,2,3,7,8-PeCDF	9.200	1.21e5	1.45	NO	33.64	0.826	0.8337	0.027	3.19
3	2,3,4,7,8-PeCDF	9.400	1.21e5	1.49	NO	35.42	0.847	0.8477	0.012	1.37
4	1,2,3,4,7,8-HxCDF	10.000	9.77e4	1.19	NO	40.75	0.966	0.9598	0.028	2.96
5	1,2,3,6,7,8-HxCDF	9.500	1.07e5	1.20	NO	40.92	0.917	0.9134	0.025	2.68
6	2,3,4,6,7,8-HxCDF	10.600	9.84e4	1.18	NO	41.87	0.851	0.8687	0.021	2.42
7	1,2,3,7,8,9-HxCDF	10.500	8.33e4	1.16	NO	42.89	0.805	0.8083	0.025	3.08
8	1,2,3,4,6,7,8-HpCDF	10.000	8.55e4	0.96	NO	45.34	1.058	1.0563	0.017	1.65
9	1,2,3,4,7,8,9-HpCDF	10.000	7.09e4	0.98	NO	47.12	0.929	0.9574	0.023	2.43
10	OCDF	20.800	1.73e5	0.88	NO	50.36	0.853	0.8587	0.034	4.01
11	2,3,7,8-TCDD	2.000	3.30e4	0.77	NO	26.51	0.900	0.8954	0.028	3.10
12	1,2,3,7,8-PeCDD	10.400	1.01e5	0.61	NO	36.21	0.867	0.8772	0.011	1.22
13	1,2,3,4,7,8-HxCDD	11.300	8.60e4	1.21	NO	42.14	0.802	0.8179	0.017	2.12
14	1,2,3,6,7,8-HxCDD	11.100	9.45e4	1.25	NO	42.28	0.746	0.7585	0.014	1.89
15	1,2,3,7,8,9-HxCDD	10.800	8.68e4	1.22	NO	42.69	0.770	0.7714	0.028	3.69
16	1,2,3,4,6,7,8-HpCDD	9.500	7.75e4	1.02	NO	46.70	0.965	0.9637	0.013	1.31
17	OCDD	20.000	1.80e5	0.90	NO	50.27	0.927	0.9273	0.011	1.19
18	13C-2,3,7,8-TCDF	100.000	2.39e6	0.76	NO	25.26	1.392	1.4191	0.044	3.09
19	13C-1,2,3,7,8-PeCDF	100.000	1.60e6	1.52	NO	33.61	0.929	0.9902	0.116	11.71
20	13C-2,3,4,7,8-PeCDF	100.000	1.52e6	1.50	NO	35.38	0.883	0.9637	0.104	10.81
21	13C-1,2,3,4,7,8-HxCDF	100.000	1.01e6	0.50	NO	40.74	1.036	1.0195	0.018	1.80
22	13C-1,2,3,6,7,8-HxCDF	100.000	1.23e6	0.51	NO	40.90	1.261	1.1864	0.072	6.09
23	13C-2,3,4,6,7,8-HxCDF	100.000	1.09e6	0.50	NO	41.86	1.117	1.0883	0.024	2.17
24	13C-1,2,3,7,8,9-HxCDF	100.000	9.85e5	0.51	NO	42.88	1.009	1.0157	0.013	1.28
25	13C-1,2,3,4,6,7,8-HpCDF	100.000	8.08e5	0.44	NO	45.32	0.827	0.8166	0.038	4.60
26	13C-1,2,3,4,7,8,9-HpCDF	100.000	7.63e5	0.43	NO	47.10	0.782	0.7522	0.034	4.52
27	13C-2,3,7,8-TCDD	100.000	1.83e6	0.81	NO	26.48	1.065	1.0907	0.056	5.15
28	13C-1,2,3,7,8-PeCDD	100.000	1.13e6	0.62	NO	36.18	0.654	0.7058	0.095	13.51
29	13C-1,2,3,4,7,8-HxCDD	100.000	9.49e5	1.23	NO	42.12	0.971	0.9752	0.018	1.89
30	13C-1,2,3,6,7,8-HxCDD	100.000	1.14e6	1.22	NO	42.27	1.168	1.1388	0.022	1.97
31	13C-1,2,3,4,6,7,8-HpCDD	100.000	8.46e5	1.05	NO	46.70	0.866	0.8543	0.055	6.40
32	13C-OCDD	200.000	1.95e6	0.89	NO	50.26	0.996	0.9704	0.068	6.98
33	13C-1,2,3,4-TCDD	100.000	1.72e6	0.79	NO	26.15	17206.5...	17709.6245	3308.886	18.68
34	13C-1,2,3,7,8,9-HxCDD	100.000	9.77e5	1.30	NO	42.68	9767.300	11256.8637	2809.862	24.96
35	37Cl-2,3,7,8-TCDD	2.000	4.05e4			26.51	1.175	1.1915	0.058	4.87
36	Total Tetra-Furans	2.188						0.7651	0.020	2.60
37	Total Tetra-Dioxins	2.118						0.8954	0.028	3.10
38	Total Penta-Furans	10.000						0.8337	0.027	3.19
39	Total Penta-Dioxins	11.310						0.8772	0.011	1.22
40	Total Hexa-Furans	10.000						0.9598	0.028	2.96
41	Total Hexa-Dioxins	10.000						0.8179	0.017	2.12
42	Total Hepta-Furans	10.000						1.0563	0.017	1.65
43	Total Hepta-Dioxins	10.000						0.9637	0.013	1.31
44	Hexa DPE	0.000	9.35e1			22.25	0.000			
45	Hepta DPE	0.000	3.39e2			37.57	0.000			
46	Octa DPE	0.000	1.25e2			43.99	0.000			
47	Nona DPE	0.000								
48	Deca DPE	0.000	9.09e1			50.59	0.000			
49	Tetra Lock	0.000	1.94e4			27.24	0.000			
50	Penta Lock	0.000	7.03e5			30.20	0.000			
51	Hexa Lock	0.000	3.20e5			39.08	0.000			
52	Hepta Lock	0.000	1.06e4			45.97	0.000			
53	Octa Lock	0.000	7.09e5			50.01	0.000			

PV WL 22-JUN-2009



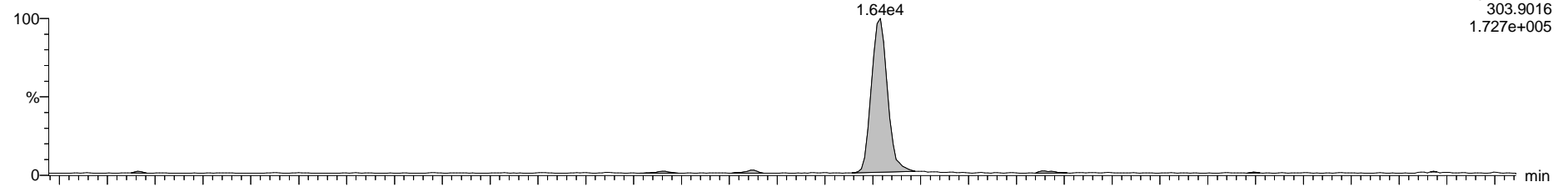
Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-A.cdb 22 Jun 2009 09:42:41

Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL,,/01-8, Description: 1,,1.0uL CS-2

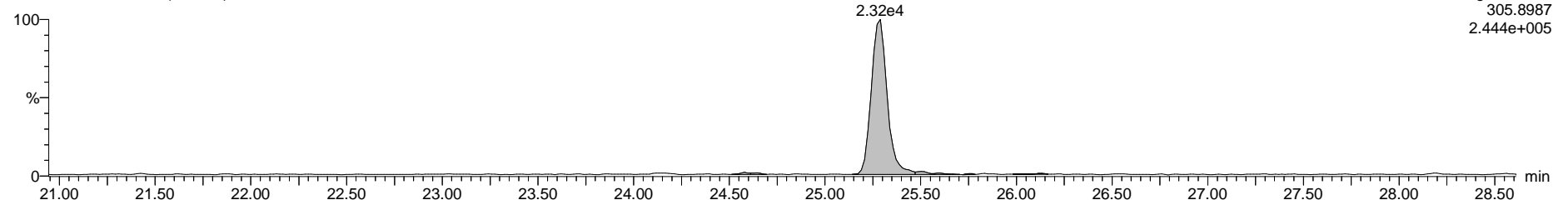
Total Tetra-Furans

DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
303.9016
1.727e+005

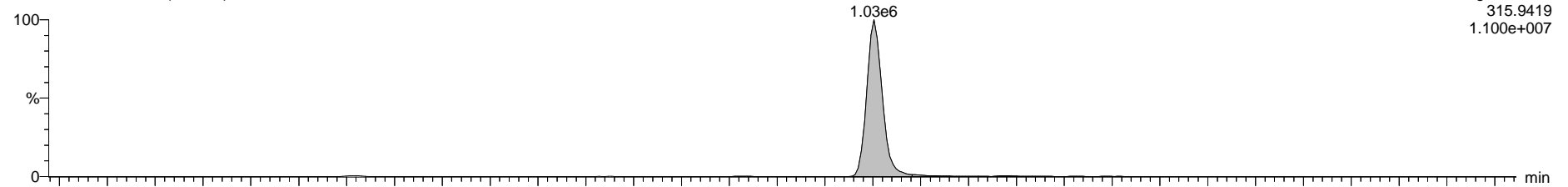
DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
305.8987
2.444e+005

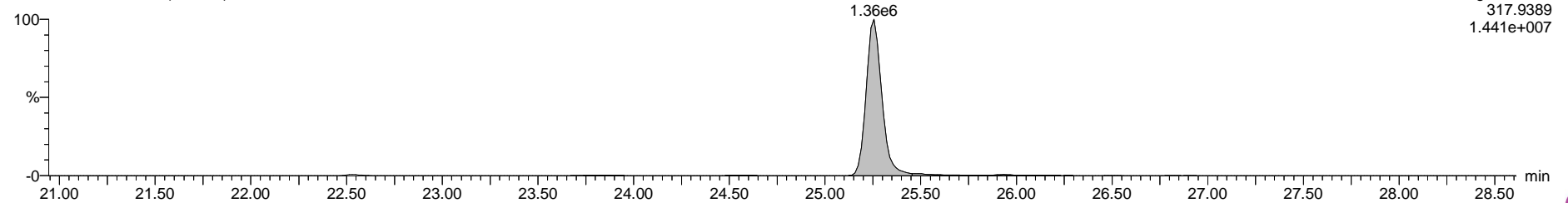
13C-2,3,7,8-TCDF

DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
315.9419
1.100e+007

DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
317.9389
1.441e+007

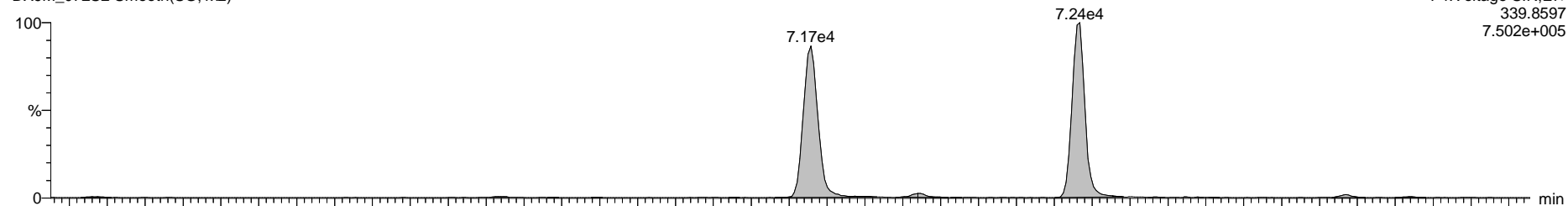


Axys Analytical Services, Ltd.

Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL, /01-8, Description: 1,,1.0uL CS-2

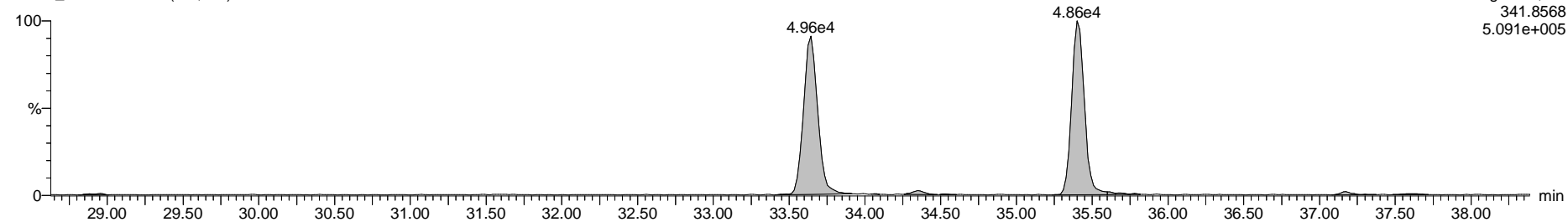
Total Penta-Furans

DX9M_072S2 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
7.502e+005

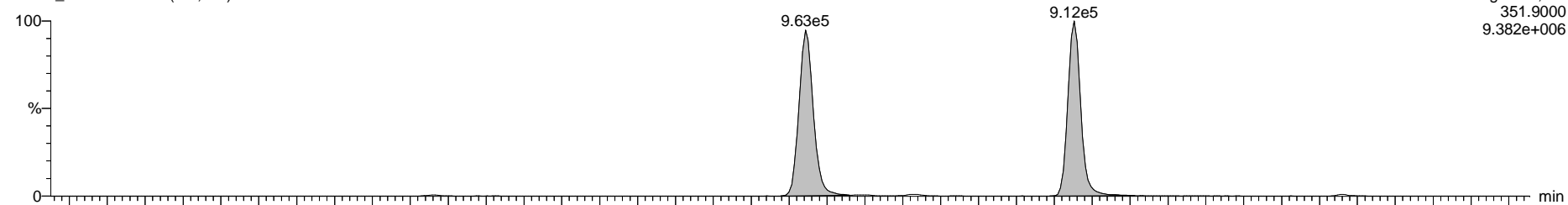
DX9M_072S2 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
5.091e+005

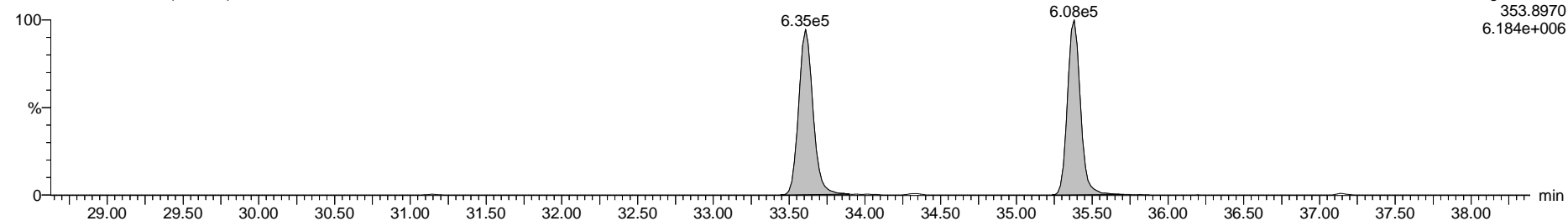
13C-1,2,3,7,8-PeCDF

DX9M_072S2 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
9.382e+006

DX9M_072S2 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8970
6.184e+006

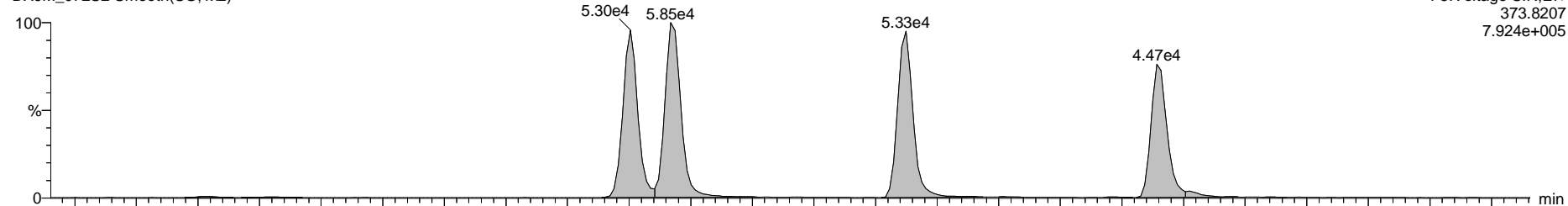


Axys Analytical Services, Ltd.

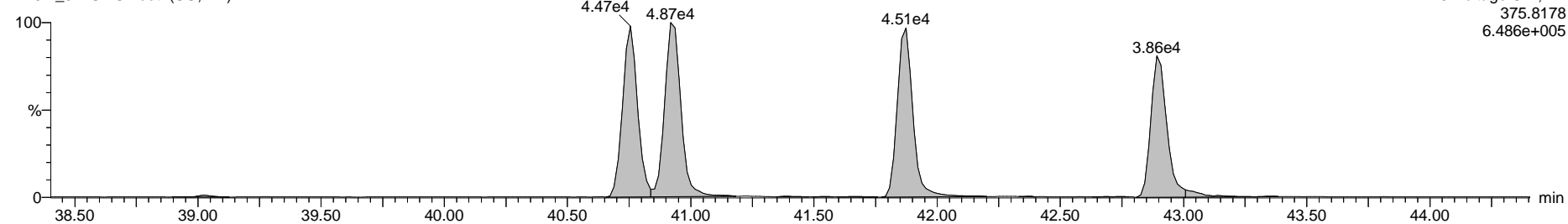
Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL,,/01-8, Description: 1,,1.0uL CS-2

Total Hexa-Furans

DX9M_072S2 Smooth(SG,1x2)

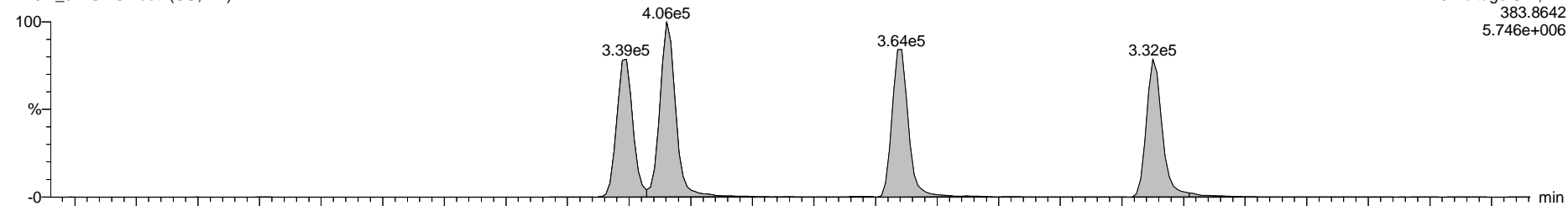


DX9M_072S2 Smooth(SG,1x2)

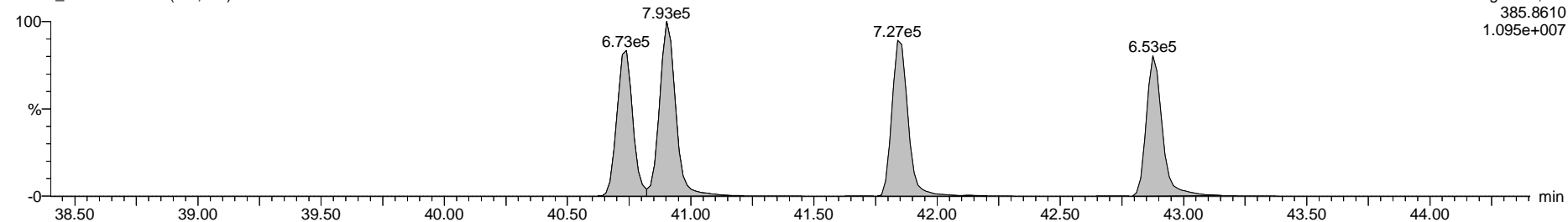


13C-1,2,3,4,7,8-HxCDF

DX9M_072S2 Smooth(SG,1x2)



DX9M_072S2 Smooth(SG,1x2)

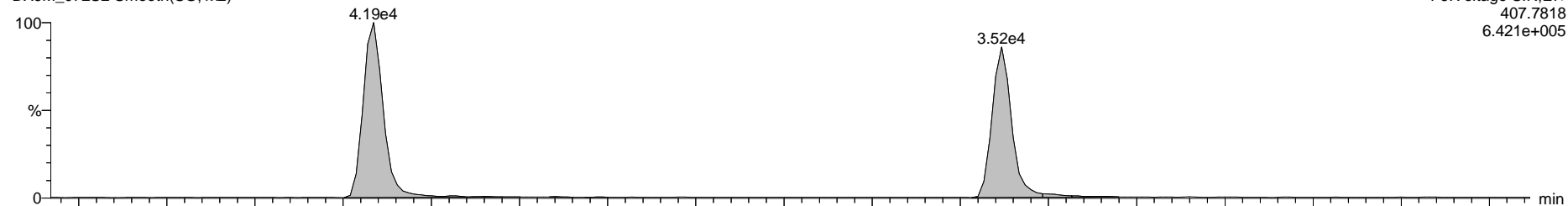


Axys Analytical Services, Ltd.

Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL, /01-8, Description: 1,,1.0uL CS-2

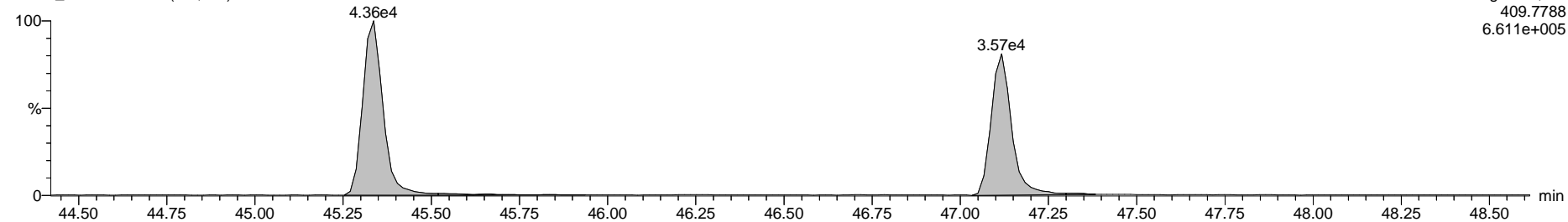
Total Hepta-Furans

DX9M_072S2 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
6.421e+005

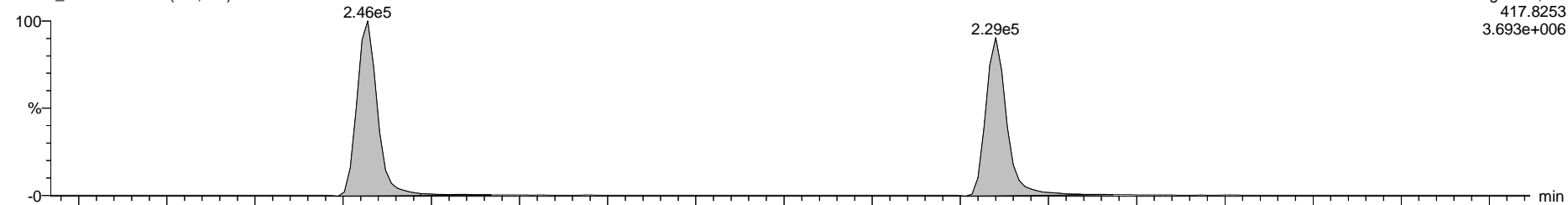
DX9M_072S2 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
6.611e+005

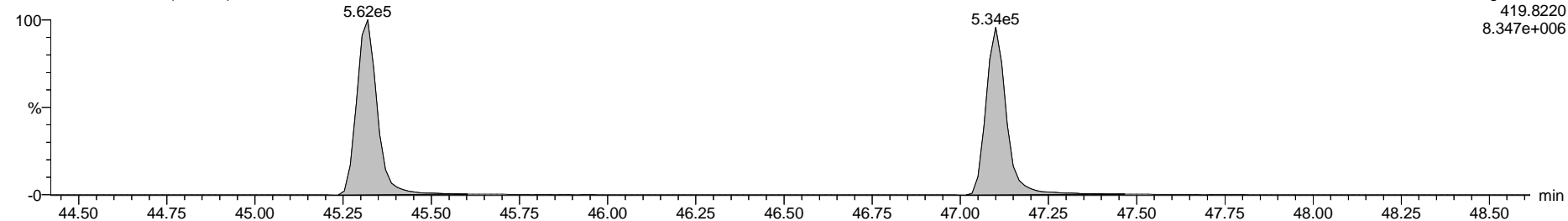
13C-1,2,3,4,6,7,8-HpCDF

DX9M_072S2 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
3.693e+006

DX9M_072S2 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
8.347e+006

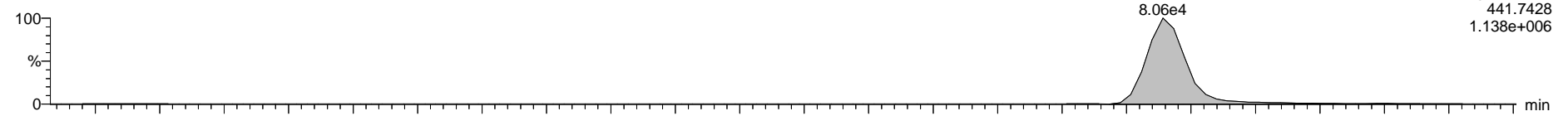


Axys Analytical Services, Ltd.

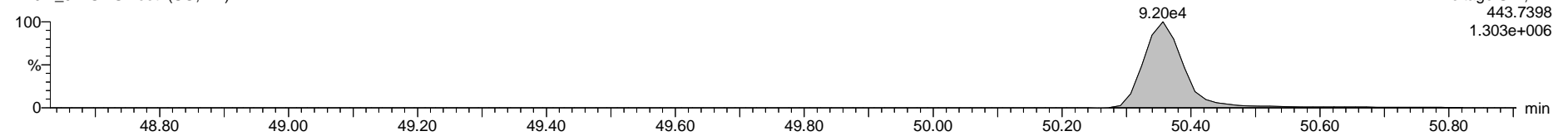
Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL, /01-8, Description: 1,,1.0uL CS-2

OCDF

DX9M_072S2 Smooth(SG,1x2)

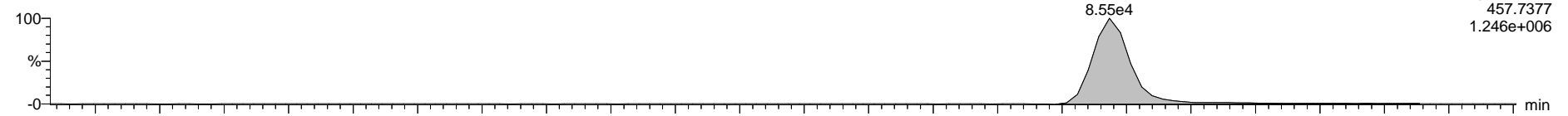


DX9M_072S2 Smooth(SG,1x2)

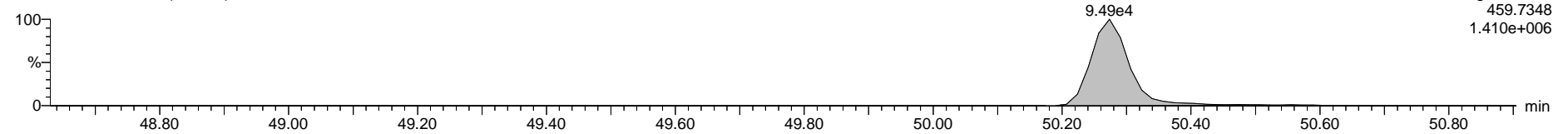


OCDD

DX9M_072S2 Smooth(SG,1x2)

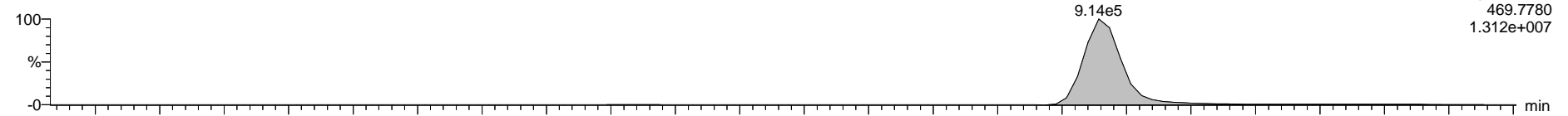


DX9M_072S2 Smooth(SG,1x2)

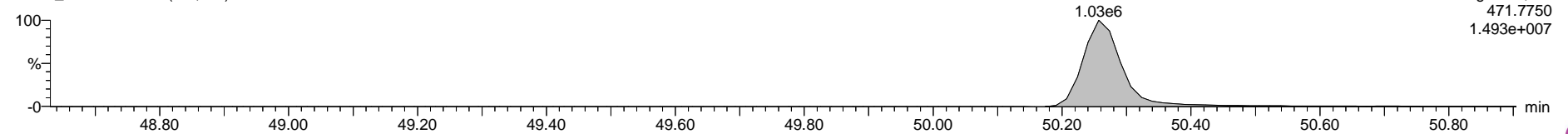


13C-OCDD

DX9M_072S2 Smooth(SG,1x2)



DX9M_072S2 Smooth(SG,1x2)

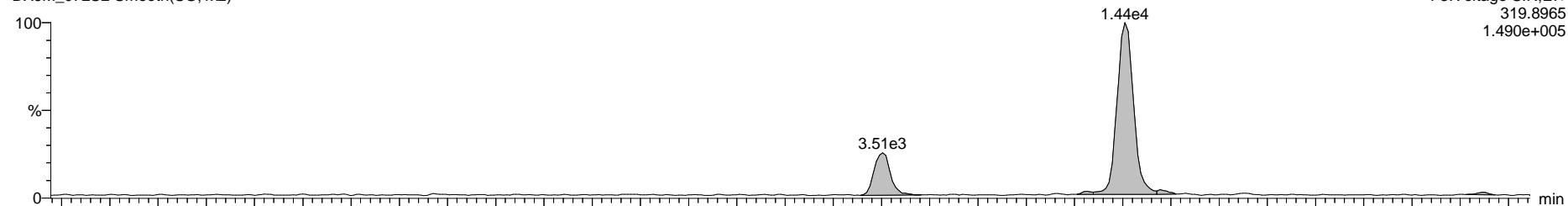


Axys Analytical Services, Ltd.

Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL, /01-8, Description: 1,,1.0uL CS-2

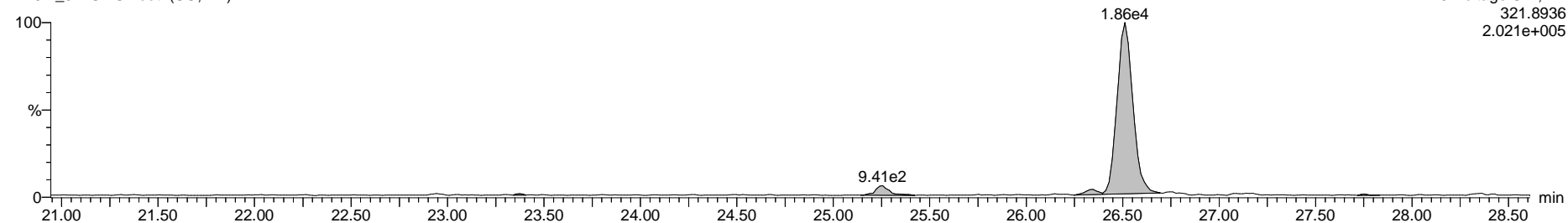
Total Tetra-Dioxins

DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
319.8965
1.490e+005

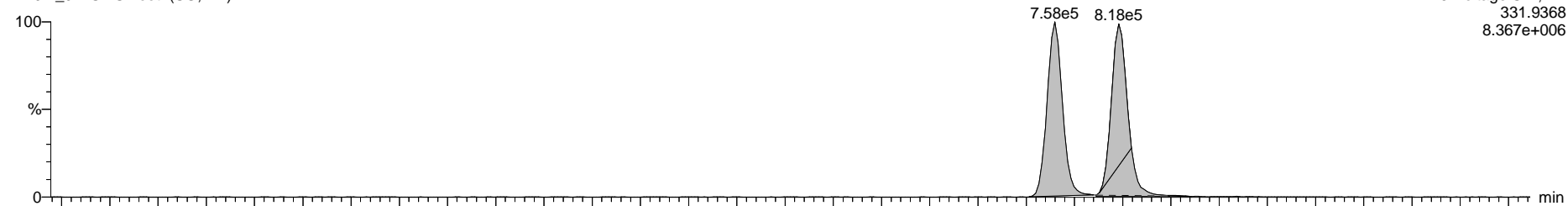
DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
321.8936
2.021e+005

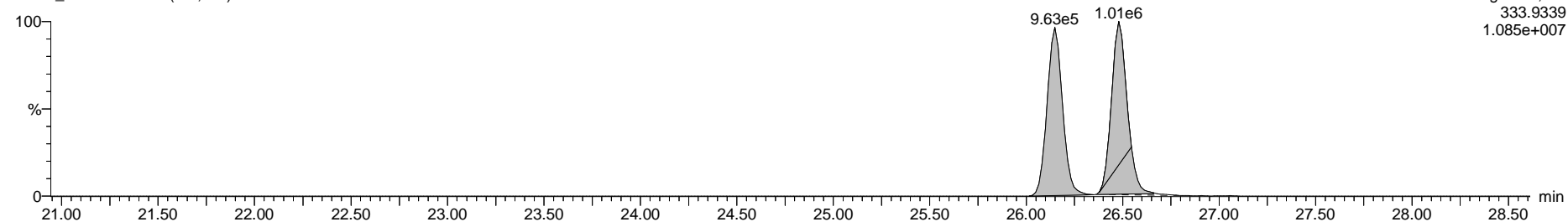
13C-2,3,7,8-TCDD

DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
331.9368
8.367e+006

DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
333.9339
1.085e+007

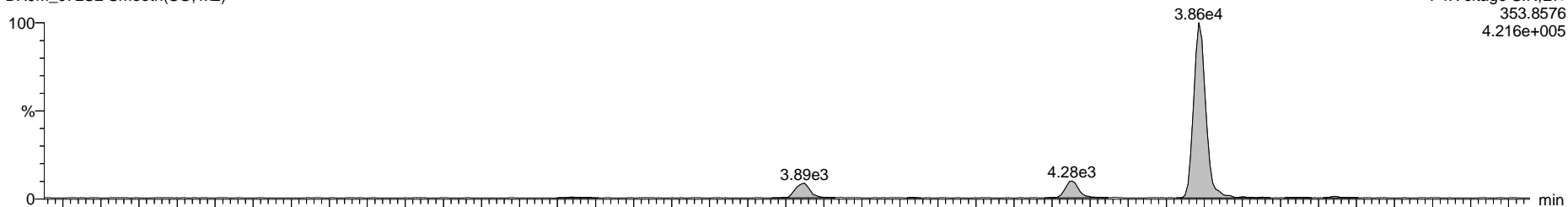


Axys Analytical Services, Ltd.

Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL,,/01-8, Description: 1,,1.0uL CS-2

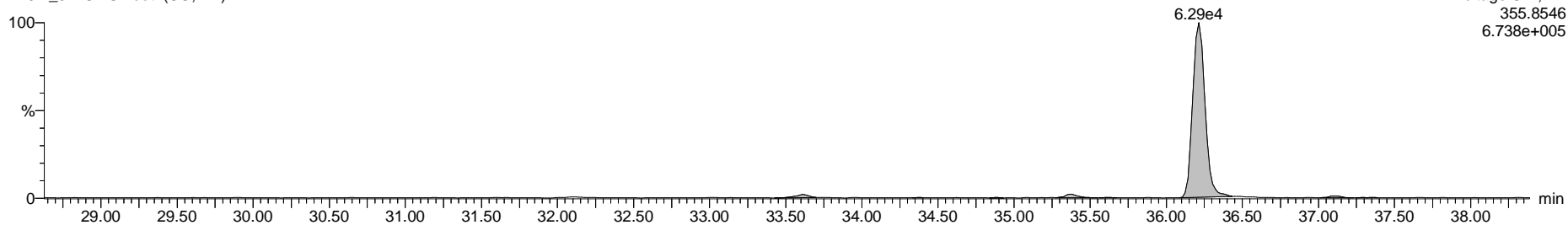
Total Penta-Dioxins

DX9M_072S2 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8576
4.216e+005

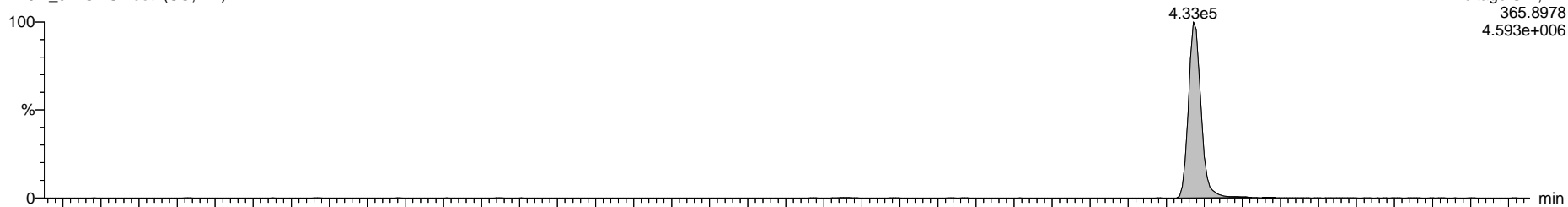
DX9M_072S2 Smooth(SG,1x2)



F4:Voltage SIR,EI+
355.8546
6.738e+005

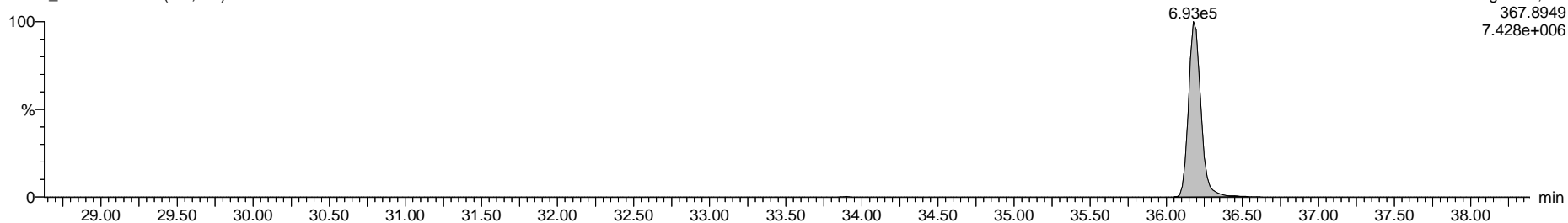
13C-1,2,3,7,8-PeCDD

DX9M_072S2 Smooth(SG,1x2)



F4:Voltage SIR,EI+
365.8978
4.593e+006

DX9M_072S2 Smooth(SG,1x2)



F4:Voltage SIR,EI+
367.8949
7.428e+006

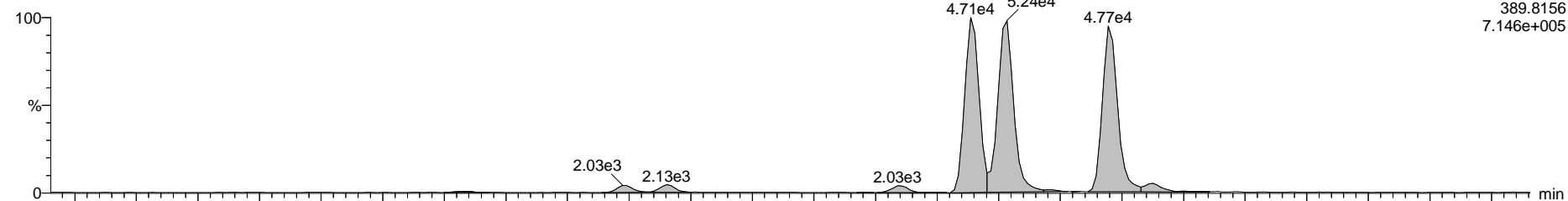


Axys Analytical Services, Ltd.

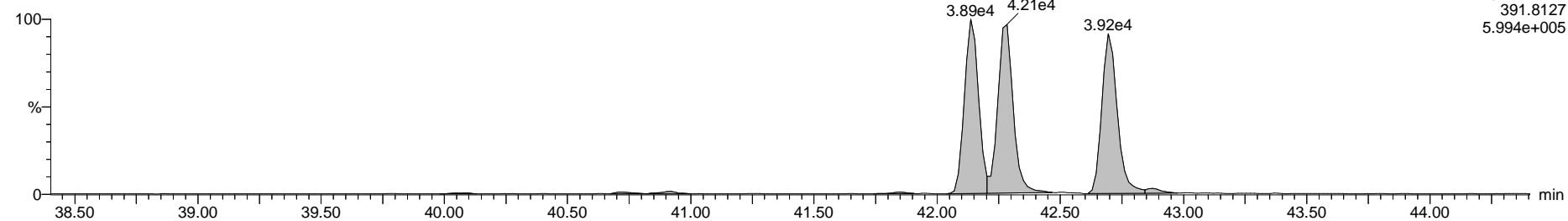
Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL, /01-8, Description: 1,,1.0uL CS-2

Total Hexa-Dioxins

DX9M_072S2 Smooth(SG,1x2)

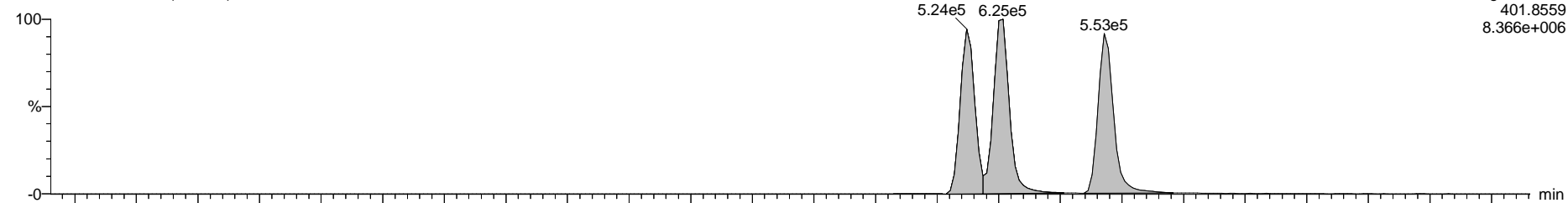


DX9M_072S2 Smooth(SG,1x2)

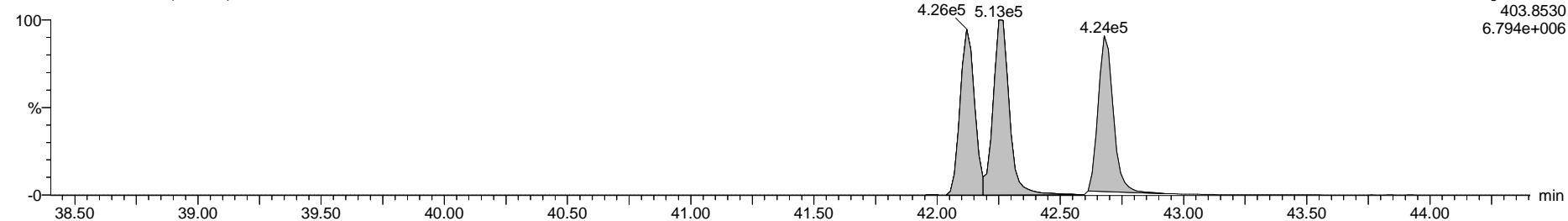


13C-1,2,3,4,7,8-HxCDD

DX9M_072S2 Smooth(SG,1x2)



DX9M_072S2 Smooth(SG,1x2)

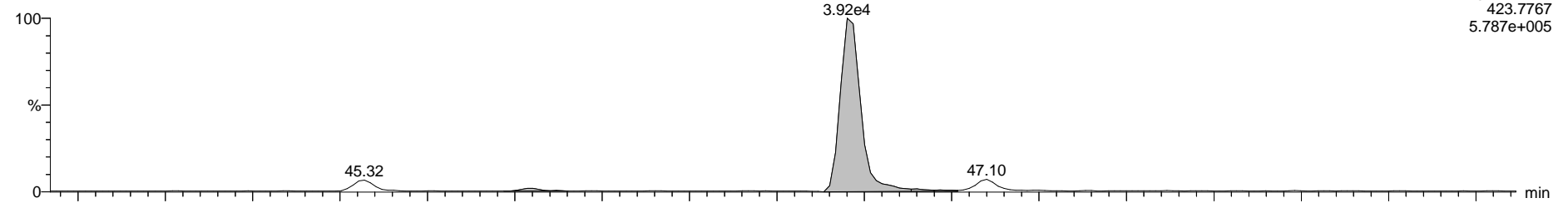


Axys Analytical Services, Ltd.

Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL,,/01-8, Description: 1,,1.0uL CS-2

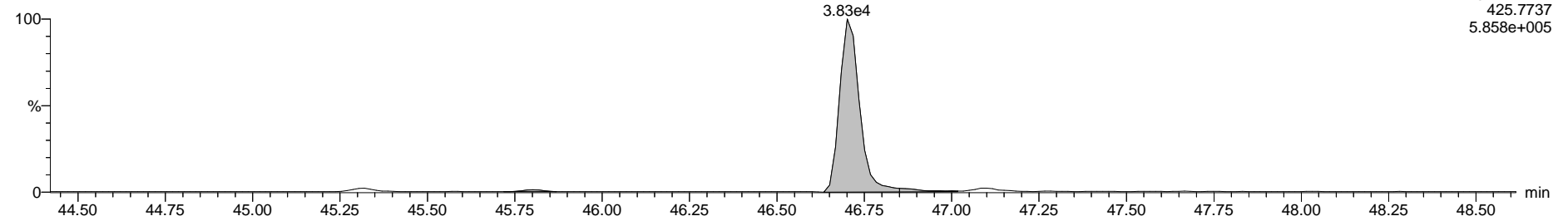
Total Hepta-Dioxins

DX9M_072S2 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
5.787e+005

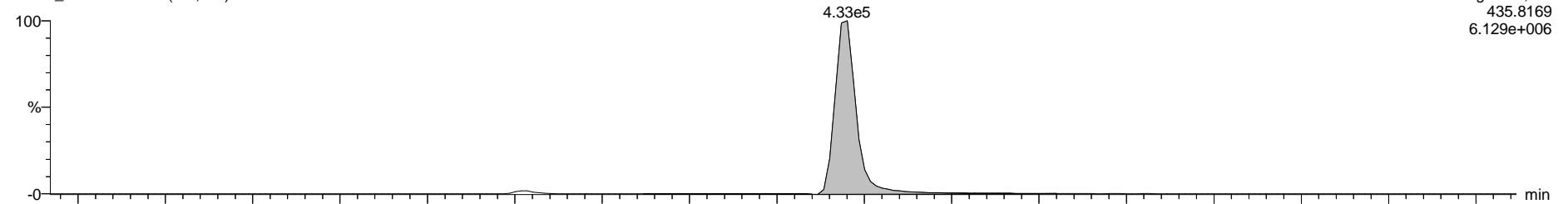
DX9M_072S2 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
5.858e+005

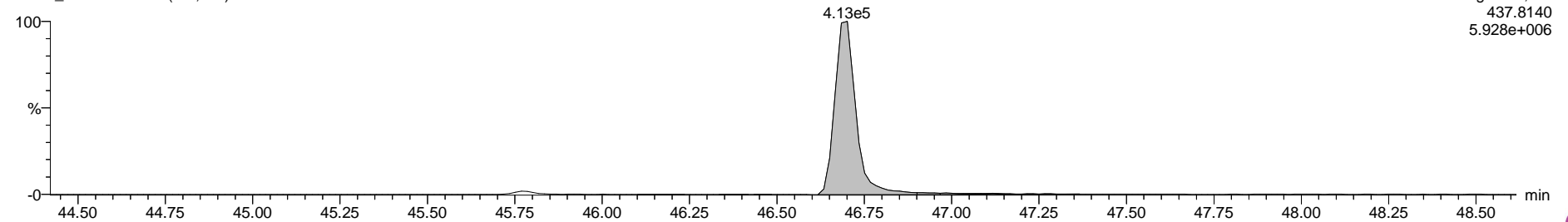
13C-1,2,3,4,6,7,8-HpCDD

DX9M_072S2 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
6.129e+006

DX9M_072S2 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
5.928e+006

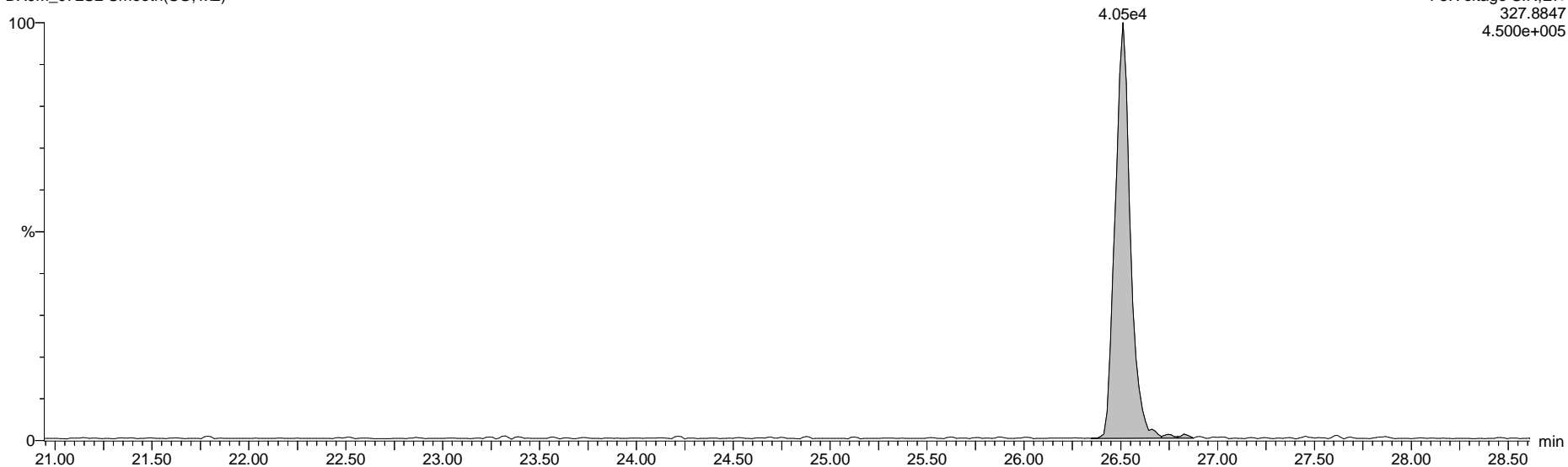


Axys Analytical Services, Ltd.

Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL,,/01-8, Description: 1,,1.0uL CS-2

37Cl-2,3,7,8-TCDD

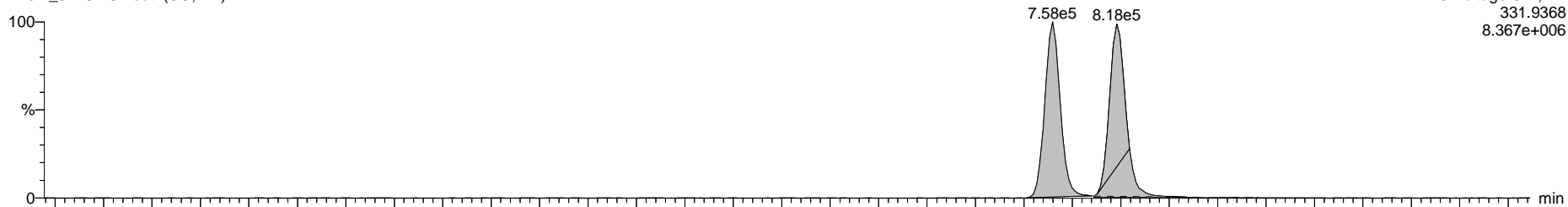
DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
327.8847
4.500e+005

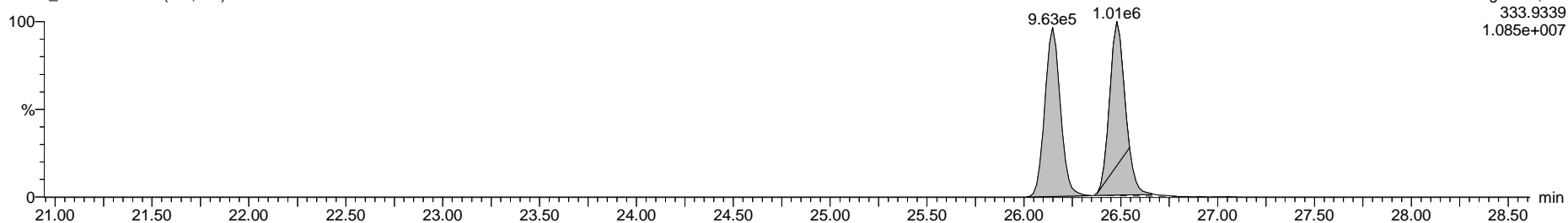
13C-1,2,3,4-TCDD

DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
331.9368
8.367e+006

DX9M_072S2 Smooth(SG,1x2)



F3:Voltage SIR,EI+
333.9339
1.085e+007

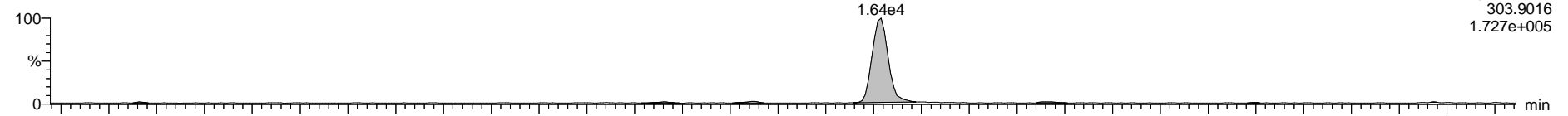


Axys Analytical Services, Ltd.

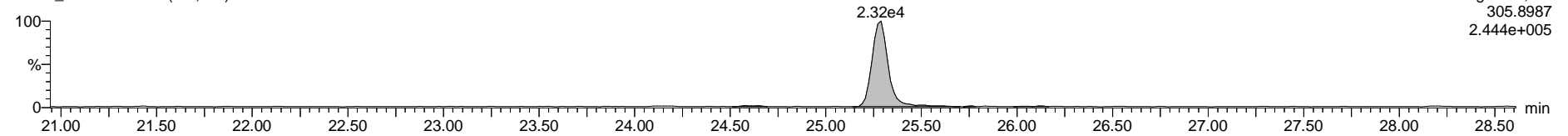
Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL, /01-8, Description: 1,,1.0uL CS-2

Total Tetra-Furans

DX9M_072S2 Smooth(SG,1x2)

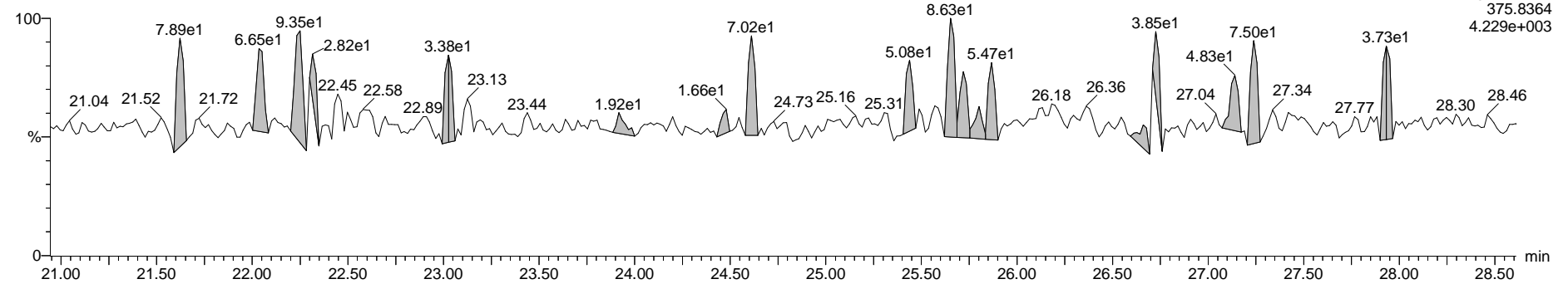


DX9M_072S2 Smooth(SG,1x2)



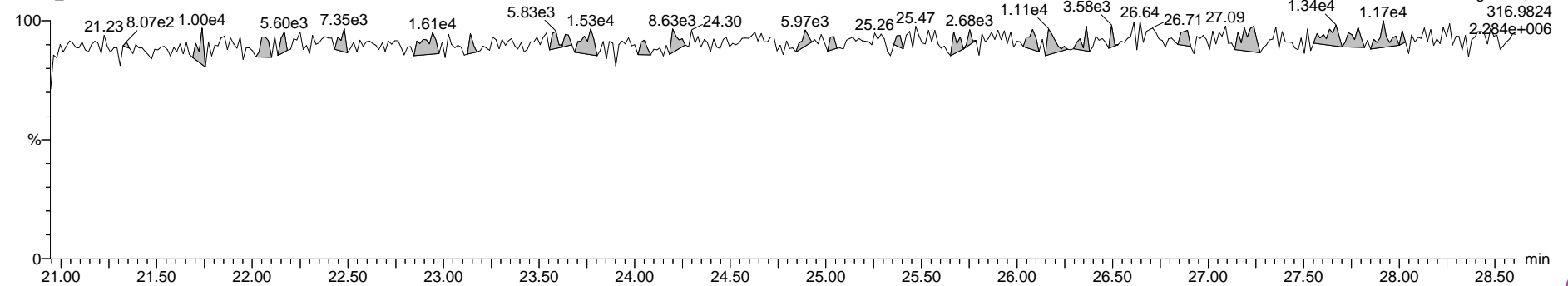
Hexa DPE

DX9M_072S2 Smooth(SG,1x2)



Tetra Lock

DX9M_072S2

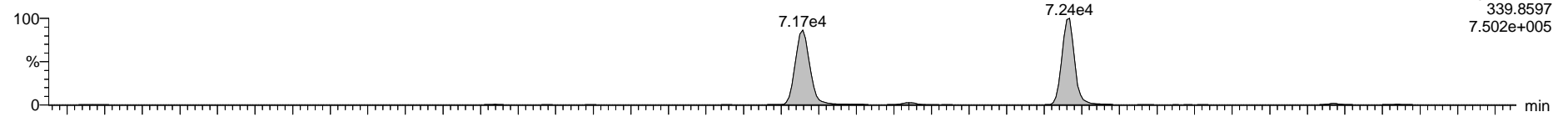


Axys Analytical Services, Ltd.

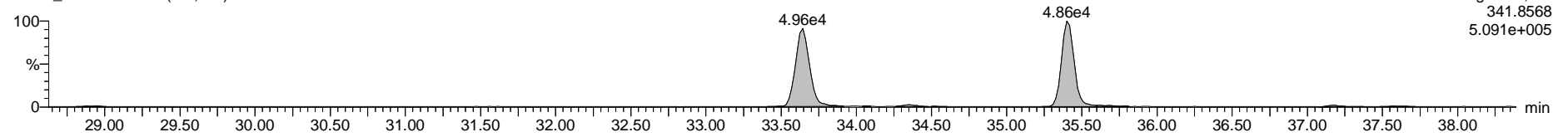
Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL,,/01-8, Description: 1,,1.0uL CS-2

Total Penta-Furans

DX9M_072S2 Smooth(SG,1x2)

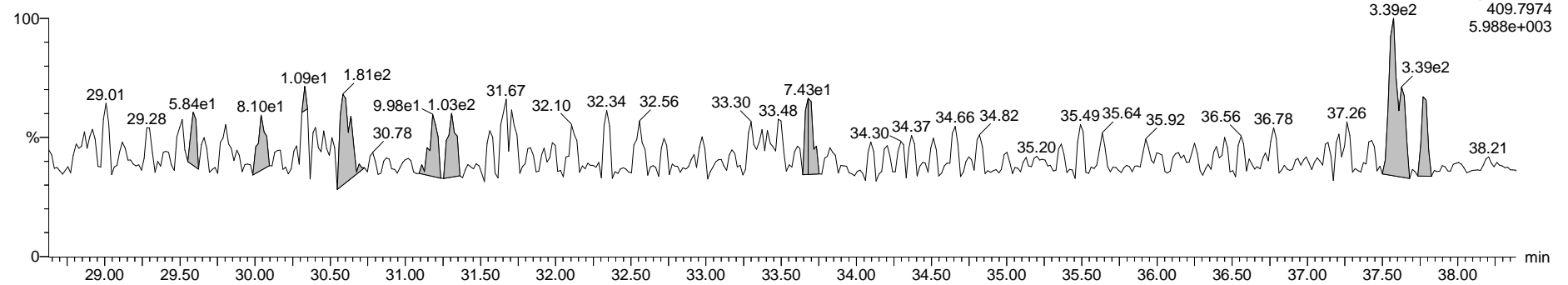


DX9M_072S2 Smooth(SG,1x2)



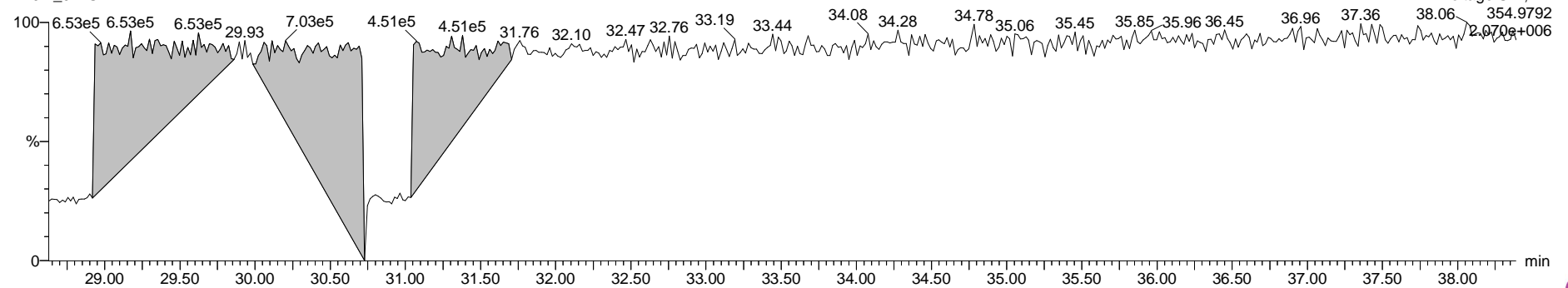
Hepta DPE

DX9M_072S2 Smooth(SG,1x2)



Penta Lock

DX9M_072S2

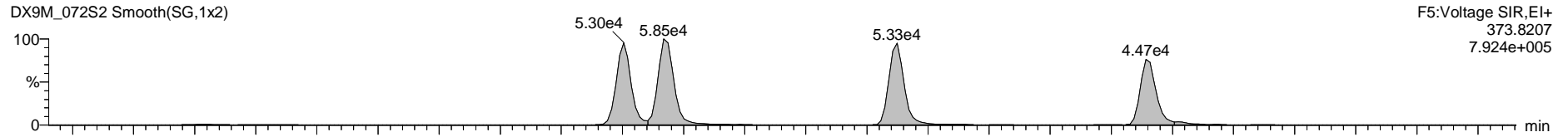


Axys Analytical Services, Ltd.

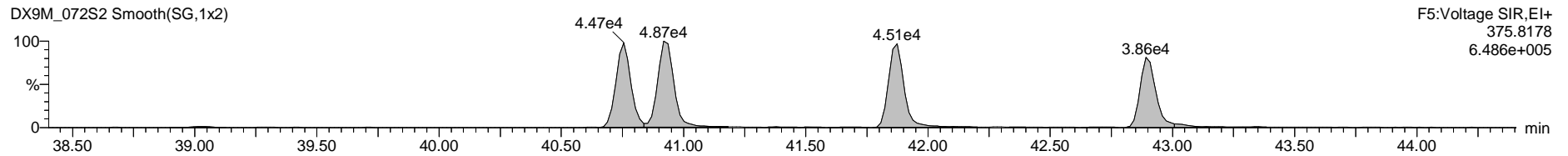
Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL,,/01-8, Description: 1,,1.0uL CS-2

Total Hexa-Furans

DX9M_072S2 Smooth(SG,1x2)

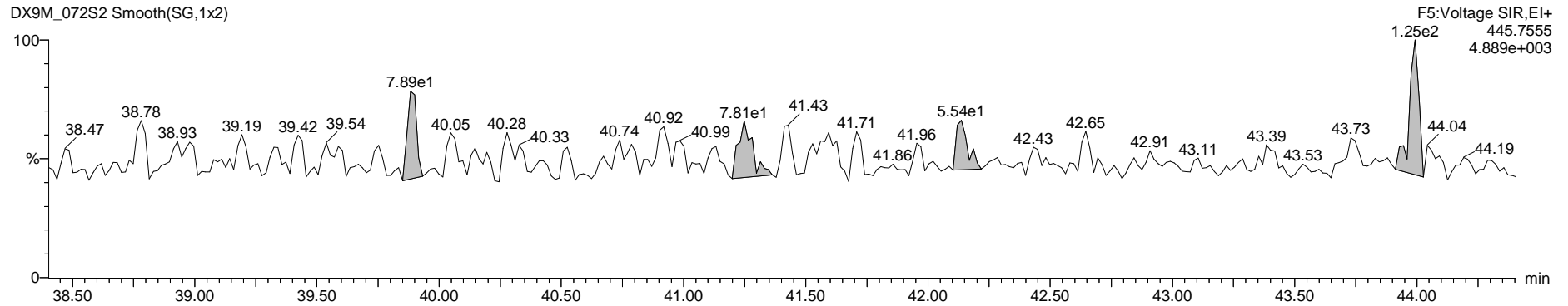


DX9M_072S2 Smooth(SG,1x2)



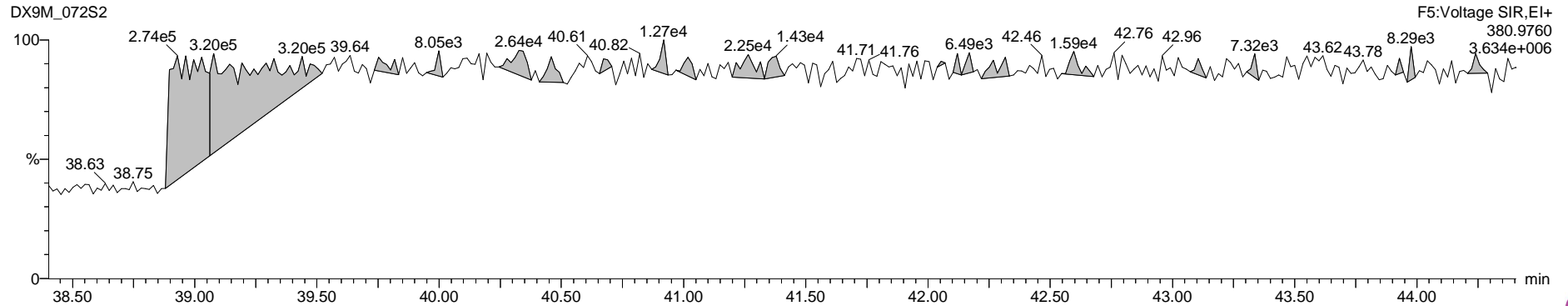
Octa DPE

DX9M_072S2 Smooth(SG,1x2)



Hexa Lock

DX9M_072S2

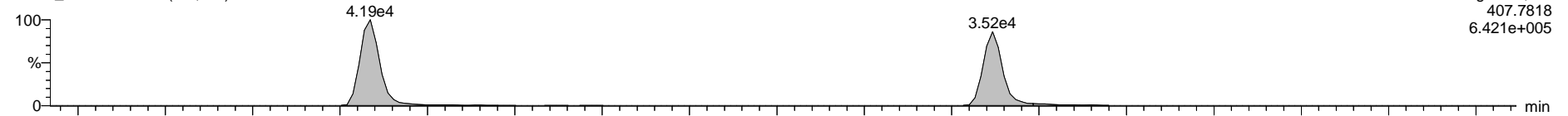


Axys Analytical Services, Ltd.

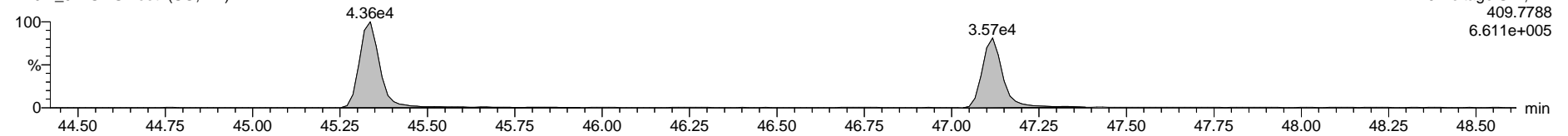
Name: DX9M_072S2, Date: 19-Jun-2009, Time: 10:40:46, ID: DX036C-CAL, /01-8, Description: 1,,1.0uL CS-2

Total Hepta-Furans

DX9M_072S2 Smooth(SG,1x2)

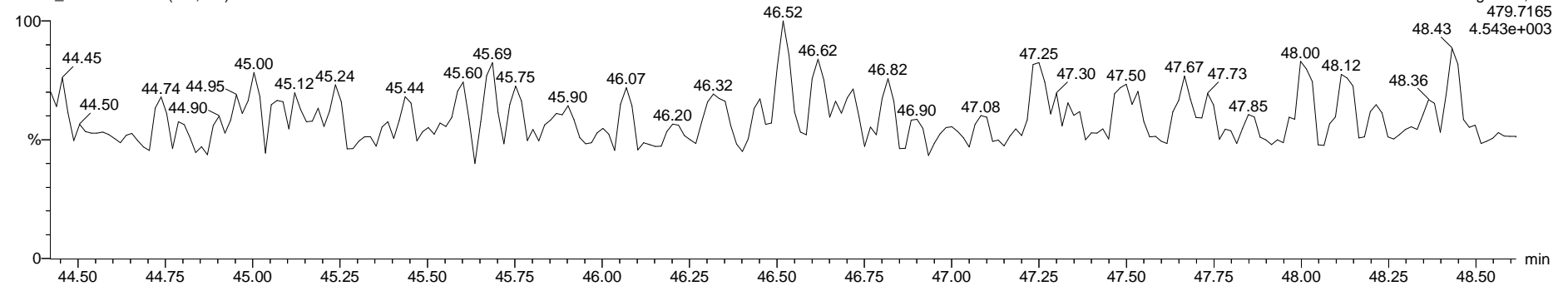


DX9M_072S2 Smooth(SG,1x2)



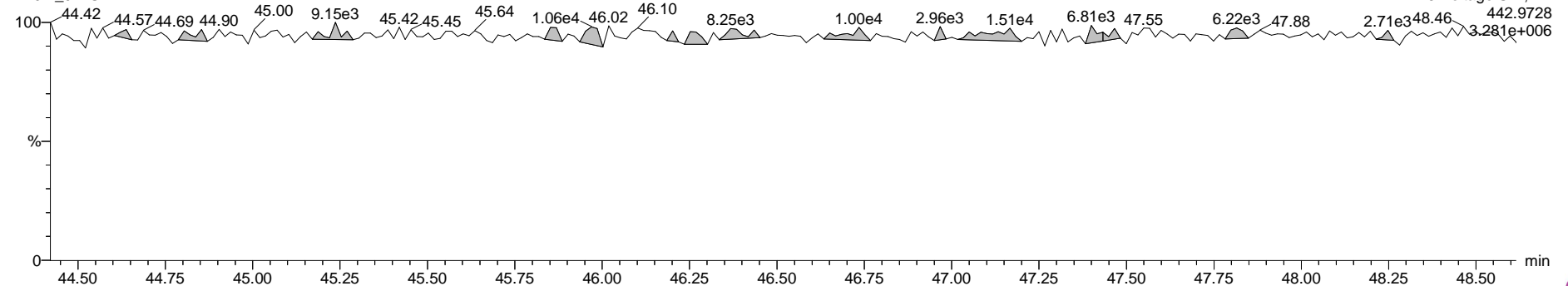
Nona DPE

DX9M_072S2 Smooth(SG,1x2)



Hepta Lock

DX9M_072S2

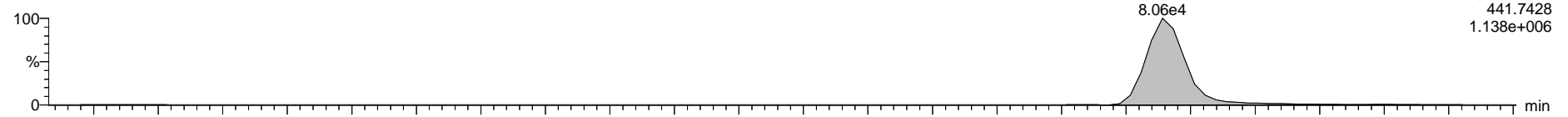


Axys Analytical Services, Ltd.

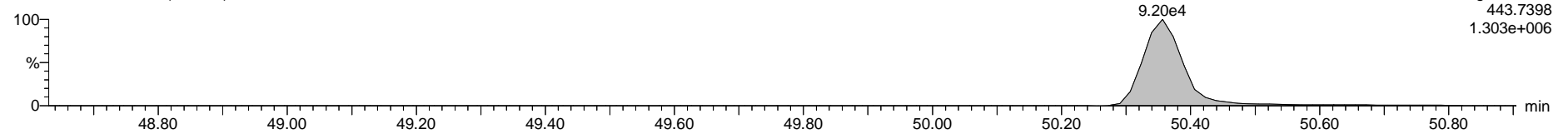
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OCDF

DX9M_072S2 Smooth(SG,1x2)

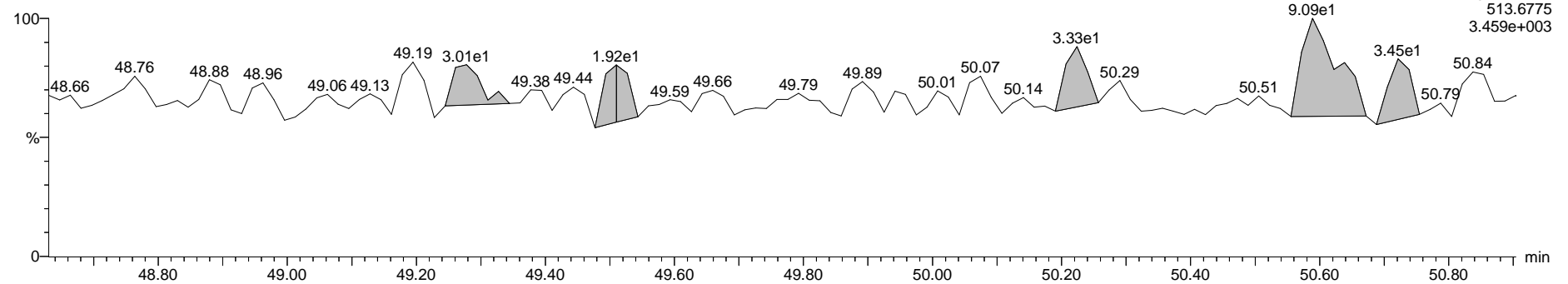


DX9M_072S2 Smooth(SG,1x2)



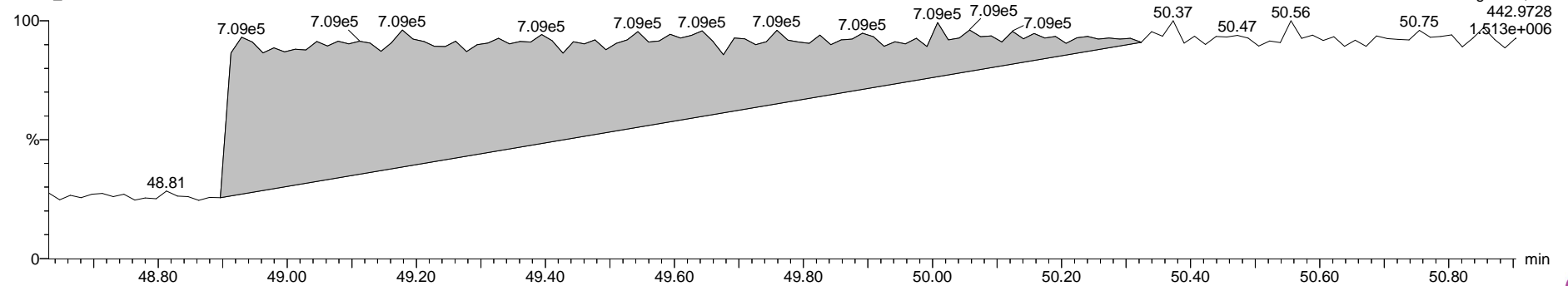
Deca DPE

DX9M_072S2 Smooth(SG,1x2)



Octa Lock

DX9M_072S2



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_072-A.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: 22 Jun 2009 11:01:01

Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

	Name	Amount	Resp	Ratio	Flags?	RT	RRF	RRE	Mean	RRF SD	RRE %	RSD
1	2,3,7,8-TCDF	10.700	1.96e5	0.74	NO	25.31	0.788	0.7651	0.020			2.60
2	1,2,3,7,8-PeCDF	46.000	6.06e5	1.48	NO	33.66	0.870	0.8337	0.027			3.19
3	2,3,4,7,8-PeCDF	47.000	6.19e5	1.47	NO	35.44	0.855	0.8477	0.012			1.37
4	1,2,3,4,7,8-HxCDF	50.000	4.74e5	1.17	NO	40.77	0.987	0.9598	0.028			2.96
5	1,2,3,6,7,8-HxCDF	47.500	4.46e5	1.18	NO	40.95	0.936	0.9134	0.025			2.68
6	2,3,4,6,7,8-HxCDF	53.000	4.72e5	1.18	NO	41.89	0.872	0.8687	0.021			2.42
7	1,2,3,7,8,9-HxCDF	52.500	3.90e5	1.18	NO	42.93	0.781	0.8083	0.025			3.08
8	1,2,3,4,6,7,8-HpCDF	50.000	4.25e5	0.98	NO	45.35	1.072	1.0563	0.017			1.65
9	1,2,3,4,7,8,9-HpCDF	50.000	3.46e5	0.97	NO	47.13	0.959	0.9574	0.023			2.43
10	OCDF	104.000	8.49e5	0.87	NO	50.37	0.880	0.8587	0.034			4.01
11	2,3,7,8-TCDD	11.000	1.63e5	0.76	NO	26.55	0.848	0.8954	0.028			3.10
12	1,2,3,7,8-PeCDD	52.000	4.82e5	0.61	NO	36.25	0.886	0.8772	0.011			1.22
13	1,2,3,4,7,8-HxCDD	56.500	4.18e5	1.21	NO	42.17	0.828	0.8179	0.017			2.12
14	1,2,3,6,7,8-HxCDD	55.500	4.55e5	1.23	NO	42.30	0.764	0.7585	0.014			1.89
15	1,2,3,7,8,9-HxCDD	54.000	4.10e5	1.21	NO	42.73	0.772	0.7714	0.028			3.69
16	1,2,3,4,6,7,8-HpCDD	47.500	3.65e5	1.04	NO	46.73	0.984	0.9637	0.013			1.31
17	OCDD	100.000	8.73e5	0.88	NO	50.29	0.941	0.9273	0.011			1.19
18	13C-2,3,7,8-TCDF	100.000	2.32e6	0.77	NO	25.29	1.421	1.4191	0.044			3.09
19	13C-1,2,3,7,8-PeCDF	100.000	1.51e6	1.49	NO	33.64	0.927	0.9902	0.116			11.71
20	13C-2,3,4,7,8-PeCDF	100.000	1.54e6	1.53	NO	35.40	0.942	0.9637	0.104			10.81
21	13C-1,2,3,4,7,8-HxCDF	100.000	9.60e5	0.50	NO	40.75	1.024	1.0195	0.018			1.80
22	13C-1,2,3,6,7,8-HxCDF	100.000	1.00e6	0.49	NO	40.94	1.070	1.1864	0.072			6.09
23	13C-2,3,4,6,7,8-HxCDF	100.000	1.02e6	0.50	NO	41.87	1.089	1.0883	0.024			2.17
24	13C-1,2,3,7,8,9-HxCDF	100.000	9.51e5	0.50	NO	42.89	1.014	1.0157	0.013			1.28
25	13C-1,2,3,4,6,7,8-HpCDF	100.000	7.92e5	0.44	NO	45.34	0.844	0.8166	0.038			4.60
26	13C-1,2,3,4,7,8,9-HpCDF	100.000	7.22e5	0.44	NO	47.12	0.770	0.7522	0.034			4.52
27	13C-2,3,7,8-TCDD	100.000	1.75e6	0.79	NO	26.51	1.070	1.0907	0.056			5.15
28	13C-1,2,3,7,8-PeCDD	100.000	1.05e6	0.61	NO	36.21	0.639	0.7058	0.095			13.51
29	13C-1,2,3,4,7,8-HxCDD	100.000	8.94e5	1.27	NO	42.14	0.953	0.9752	0.018			1.89
30	13C-1,2,3,6,7,8-HxCDD	100.000	1.07e6	1.24	NO	42.28	1.144	1.1388	0.022			1.97
31	13C-1,2,3,4,6,7,8-HpCDD	100.000	7.81e5	1.03	NO	46.72	0.832	0.8543	0.055			6.40
32	13C-OCDD	200.000	1.85e6	0.90	NO	50.27	0.989	0.9704	0.068			6.98
33	13C-1,2,3,4-TCDD	100.000	1.63e6	0.79	NO	26.18	16348.4...	17709.6245	3308.886			18.68
34	13C-1,2,3,7,8,9-HxCDD	100.000	9.38e5	1.22	NO	42.71	9379.386	11256.8637	2809.862			24.96
35	37Cl-2,3,7,8-TCDD	10.000	1.84e5			26.55	1.128	1.1915	0.058			4.87
36	Total Tetra-Furans	10.940						0.7651	0.020			2.60
37	Total Tetra-Dioxins	11.649						0.8954	0.028			3.10
38	Total Penta-Furans	50.000						0.8337	0.027			3.19
39	Total Penta-Dioxins	56.550						0.8772	0.011			1.22
40	Total Hexa-Furans	50.000						0.9598	0.028			2.96
41	Total Hexa-Dioxins	50.000						0.8179	0.017			2.12
42	Total Hepta-Furans	50.000						1.0563	0.017			1.65
43	Total Hepta-Dioxins	50.000						0.9637	0.013			1.31
44	Hexa DPE	0.000	1.58e2			25.09	0.000					
45	Hepta DPE	0.000	2.42e2			37.63	0.000					
46	Octa DPE	0.000	5.37e1			40.26	0.000					
47	Nona DPE	0.000	2.34e2			48.12	0.000					
48	Deca DPE	0.000	7.70e1			48.90	0.000					
49	Tetra Lock	0.000										
50	Penta Lock	0.000	5.02e5			29.17	0.000					
51	Hexa Lock	0.000	4.73e5			40.59	0.000					

PV WL 22-JUN-2009



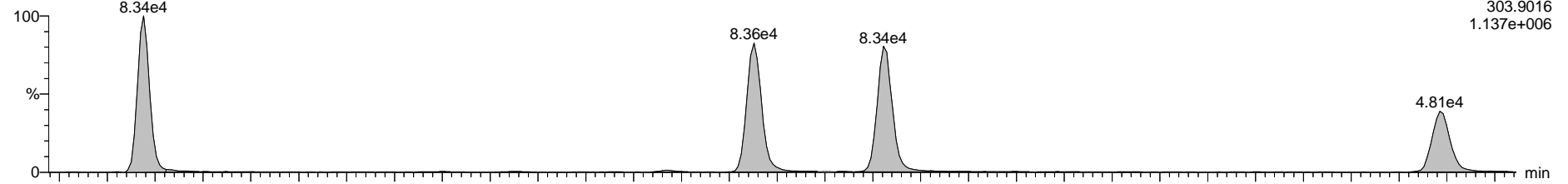
Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-A.cdb 22 Jun 2009 09:42:41

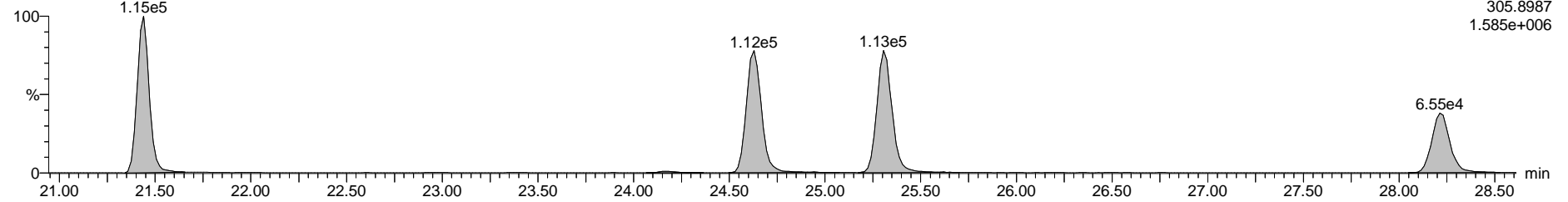
Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Tetra-Furans

DX9M_072S1 Smooth(SG,1x2)

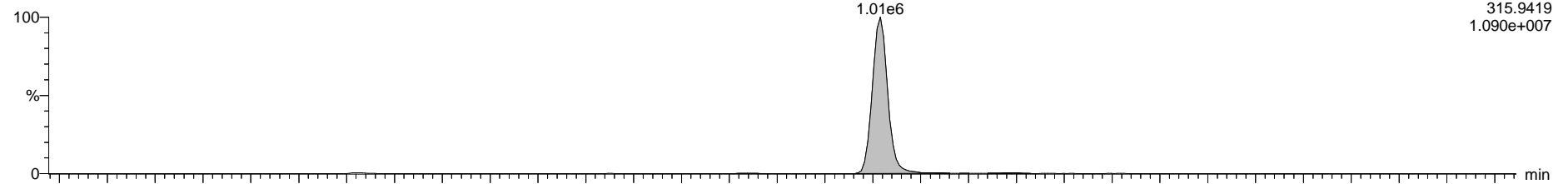


DX9M_072S1 Smooth(SG,1x2)

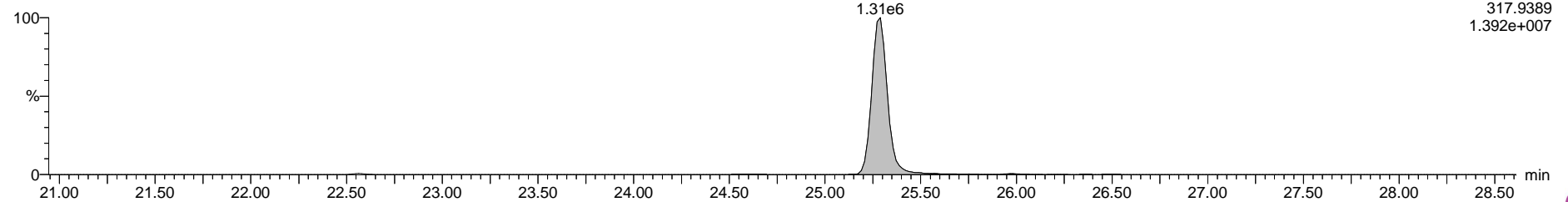


13C-2,3,7,8-TCDF

DX9M_072S1 Smooth(SG,1x2)



DX9M_072S1 Smooth(SG,1x2)

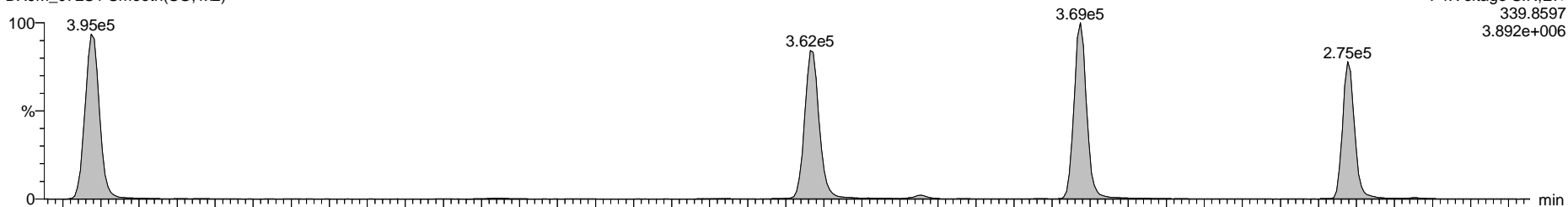


Axys Analytical Services, Ltd.

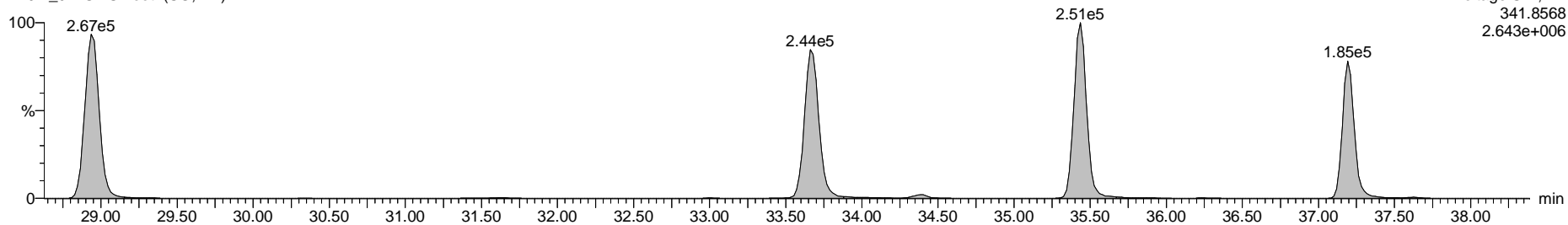
Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

Total Penta-Furans

DX9M_072S1 Smooth(SG,1x2)

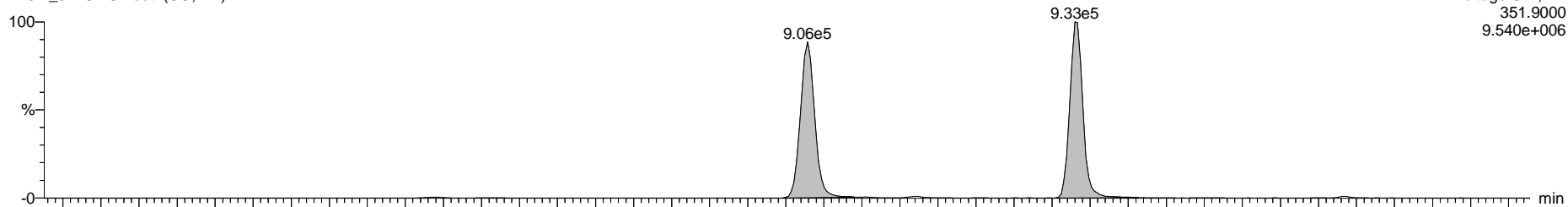


DX9M_072S1 Smooth(SG,1x2)

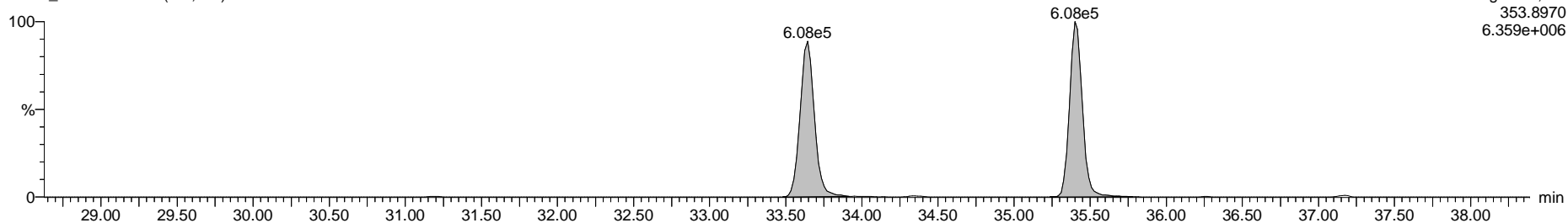


13C-1,2,3,7,8-PeCDF

DX9M_072S1 Smooth(SG,1x2)



DX9M_072S1 Smooth(SG,1x2)

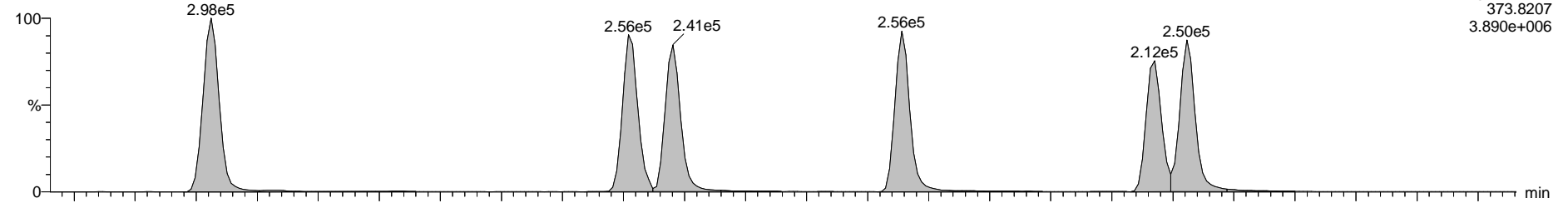


Axys Analytical Services, Ltd.

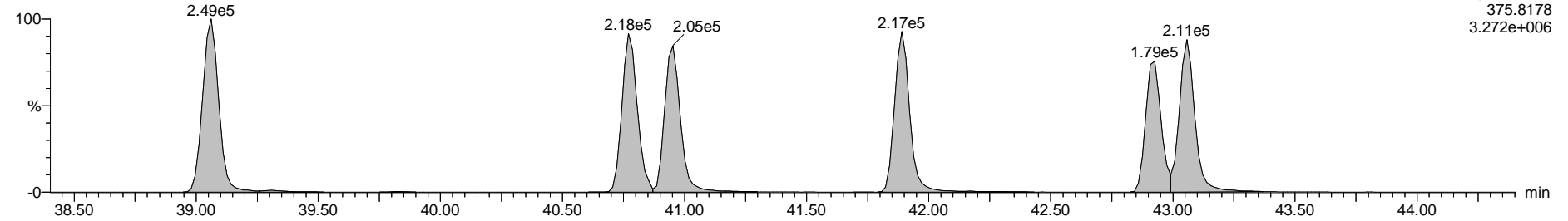
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Total Hexa-Furans

DX9M_072S1 Smooth(SG,1x2)

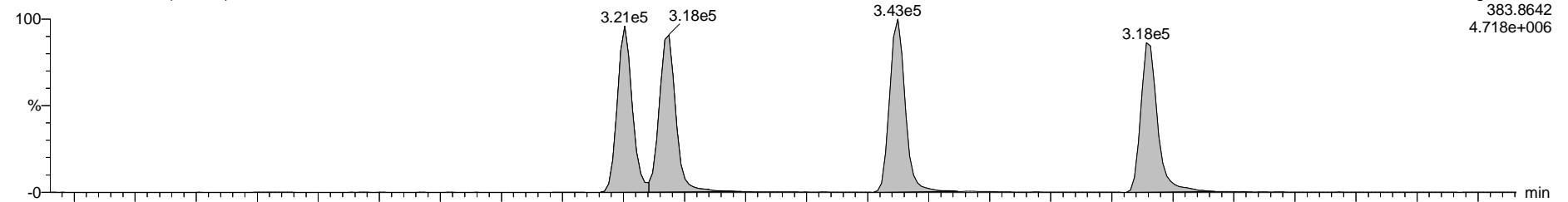


DX9M_072S1 Smooth(SG,1x2)

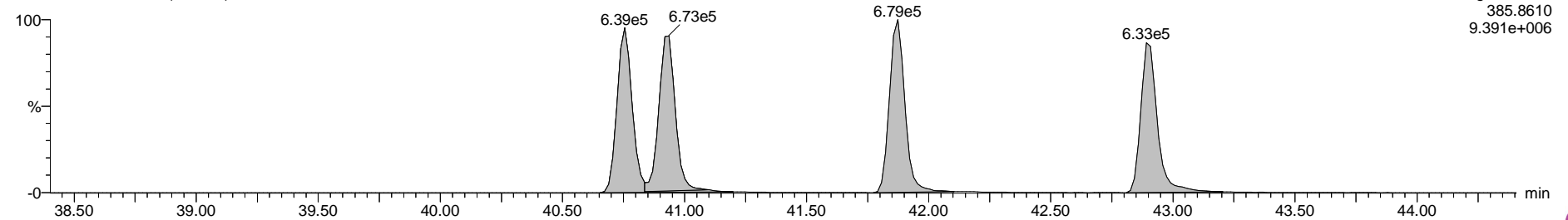


13C-1,2,3,4,7,8-HxCDF

DX9M_072S1 Smooth(SG,1x2)



DX9M_072S1 Smooth(SG,1x2)

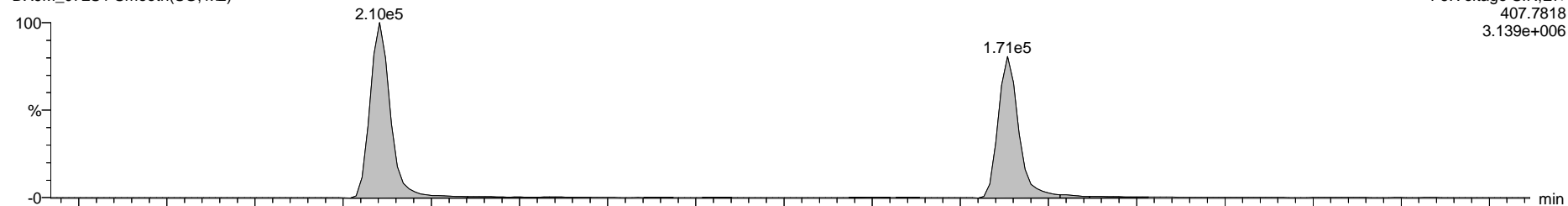


Axys Analytical Services, Ltd.

Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

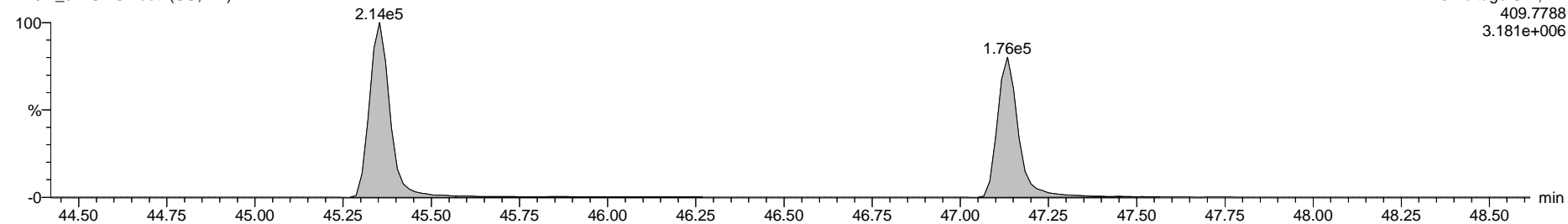
Total Hepta-Furans

DX9M_072S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
3.139e+006

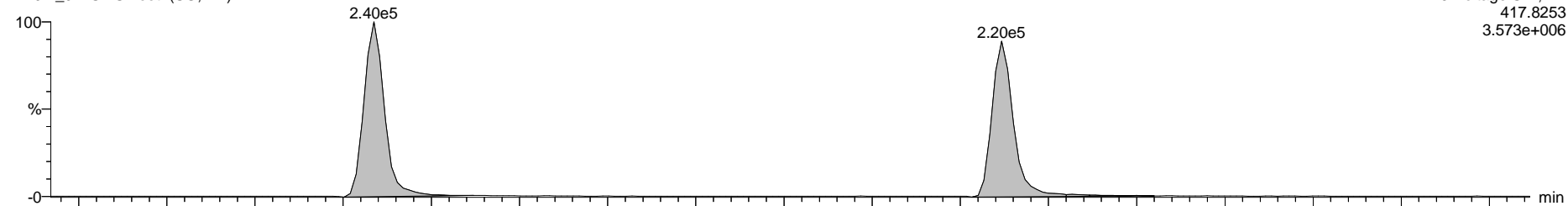
DX9M_072S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
3.181e+006

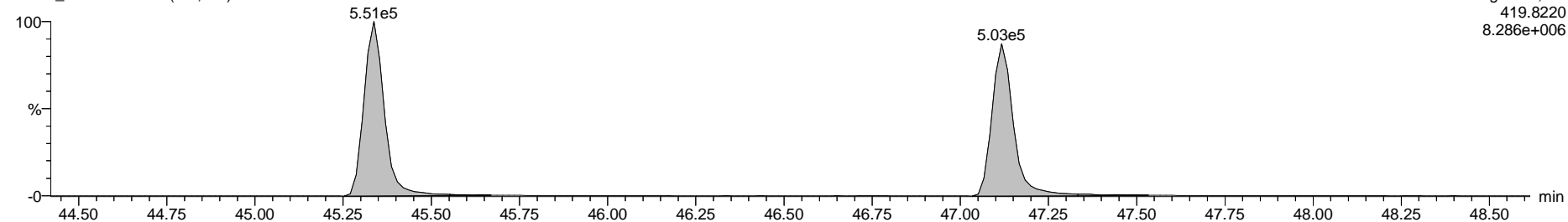
13C-1,2,3,4,6,7,8-HpCDF

DX9M_072S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
3.573e+006

DX9M_072S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
8.286e+006

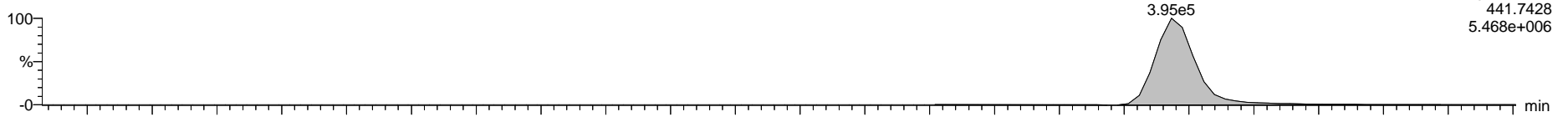


Axys Analytical Services, Ltd.

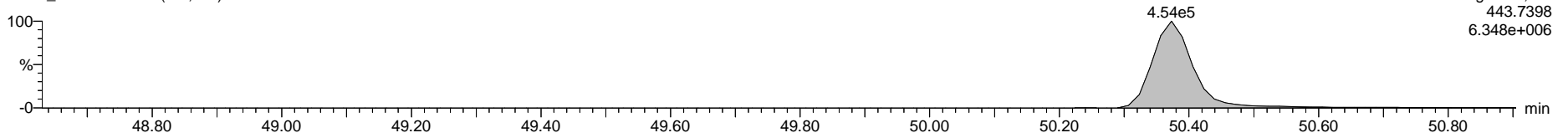
Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

OCDF

DX9M_072S1 Smooth(SG,1x2)

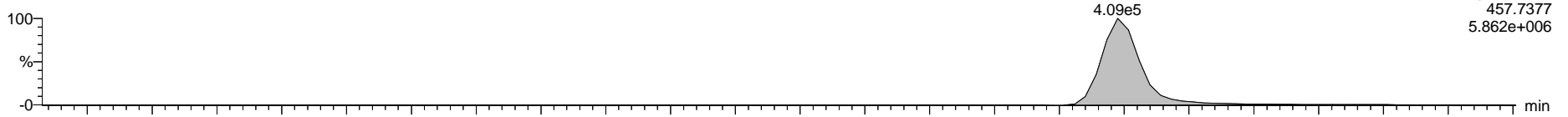


DX9M_072S1 Smooth(SG,1x2)

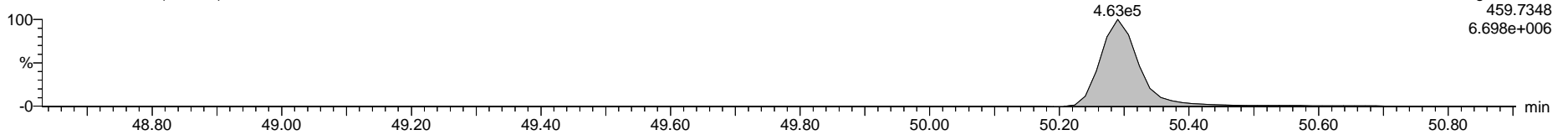


OCDD

DX9M_072S1 Smooth(SG,1x2)

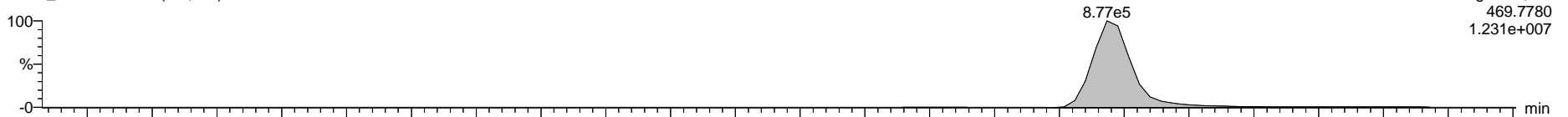


DX9M_072S1 Smooth(SG,1x2)

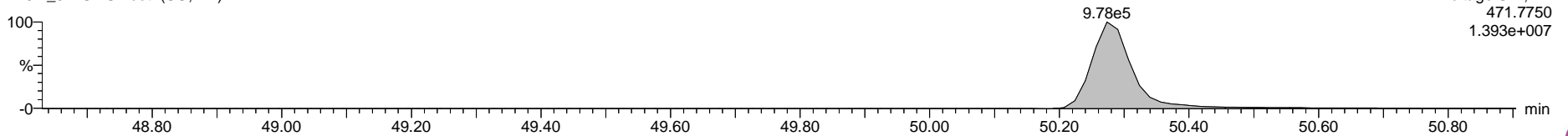


13C-OCDD

DX9M_072S1 Smooth(SG,1x2)



DX9M_072S1 Smooth(SG,1x2)

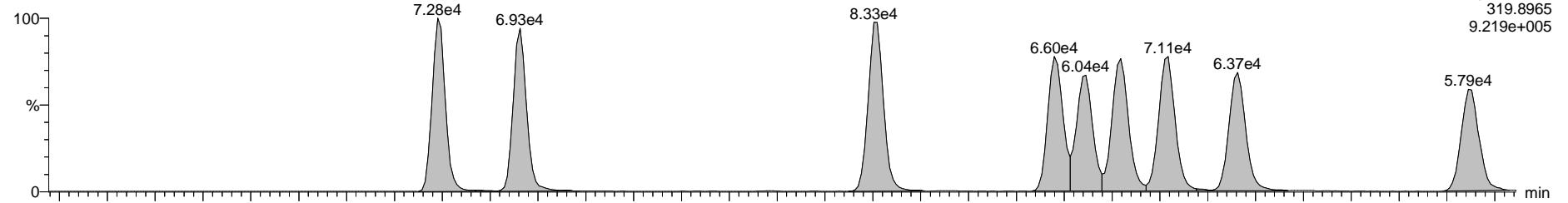


Axys Analytical Services, Ltd.

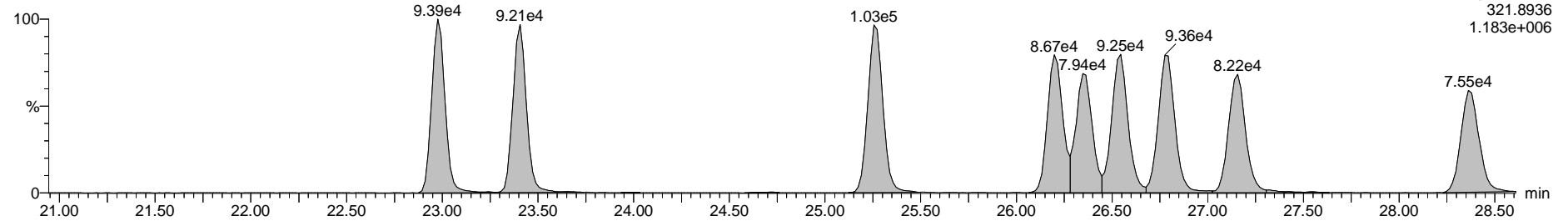
Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

Total Tetra-Dioxins

DX9M_072S1 Smooth(SG,1x2)

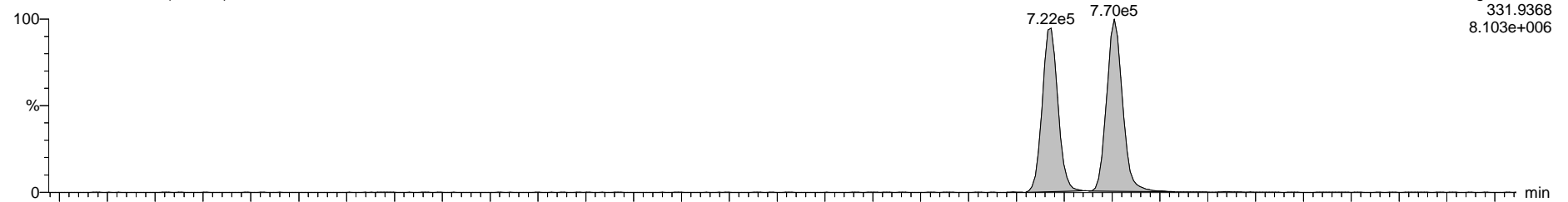


DX9M_072S1 Smooth(SG,1x2)

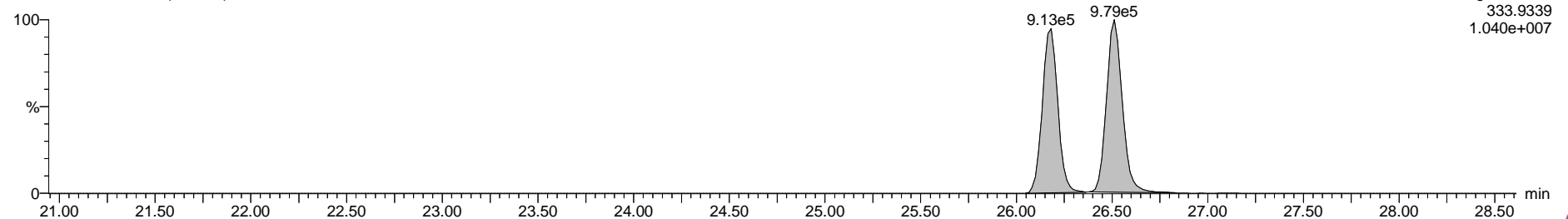


13C-2,3,7,8-TCDD

DX9M_072S1 Smooth(SG,1x2)



DX9M_072S1 Smooth(SG,1x2)

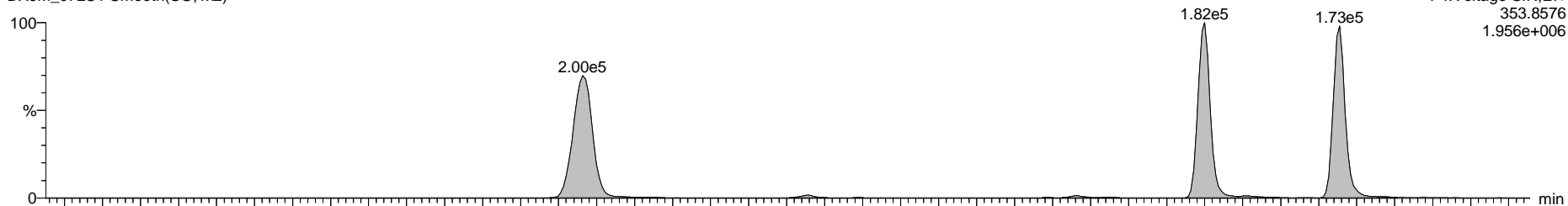


Axys Analytical Services, Ltd.

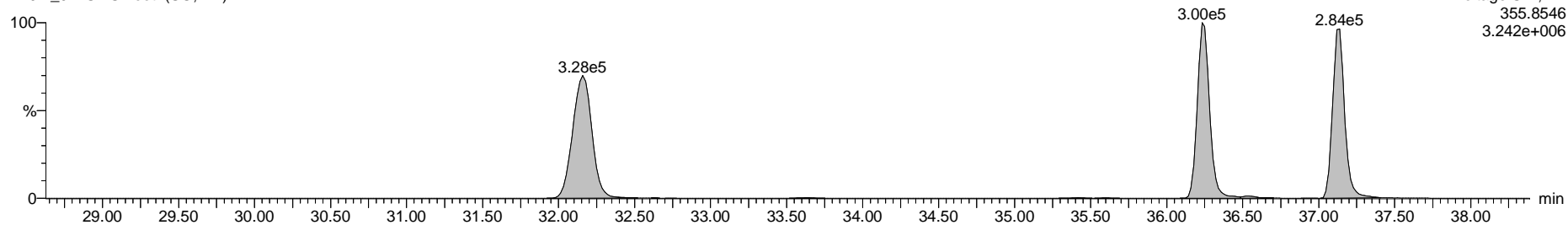
Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Penta-Dioxins

DX9M_072S1 Smooth(SG,1x2)

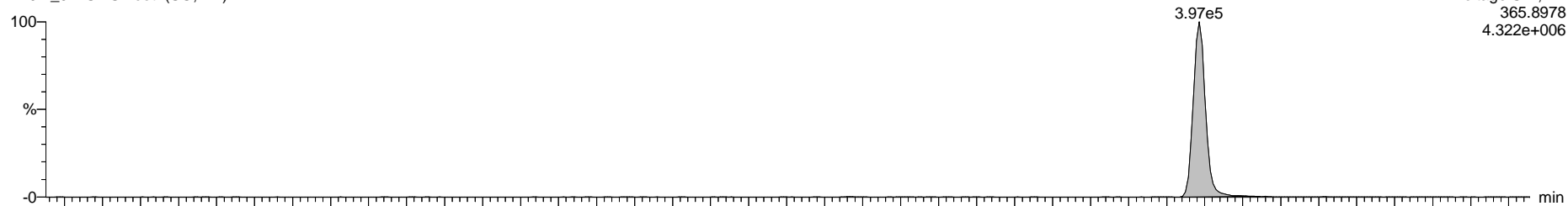


DX9M_072S1 Smooth(SG,1x2)

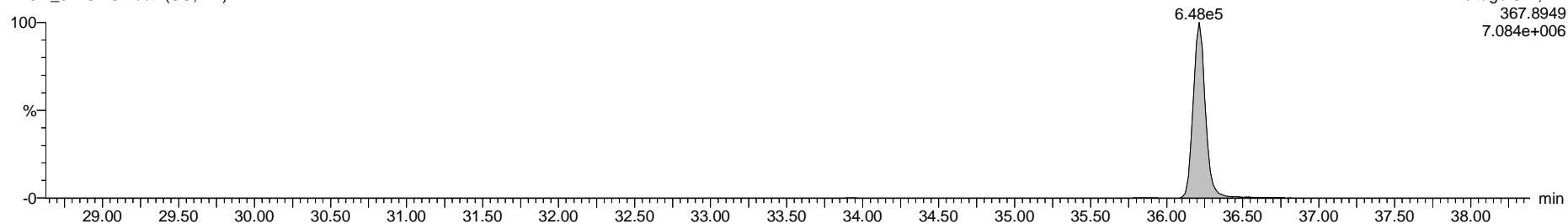


13C-1,2,3,7,8-PeCDD

DX9M_072S1 Smooth(SG,1x2)



DX9M_072S1 Smooth(SG,1x2)

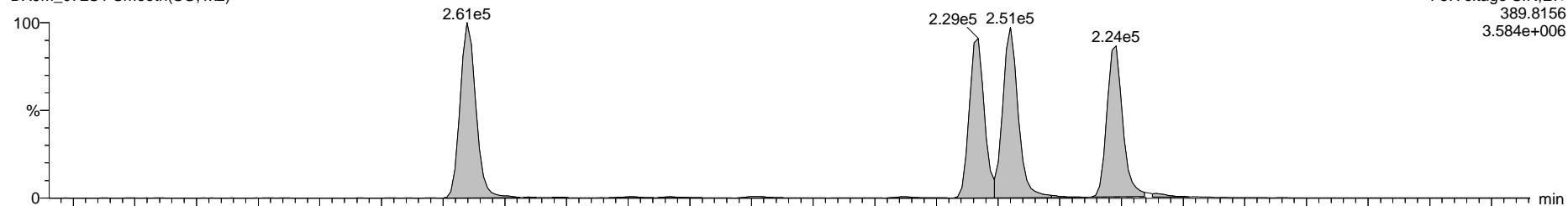


Axys Analytical Services, Ltd.

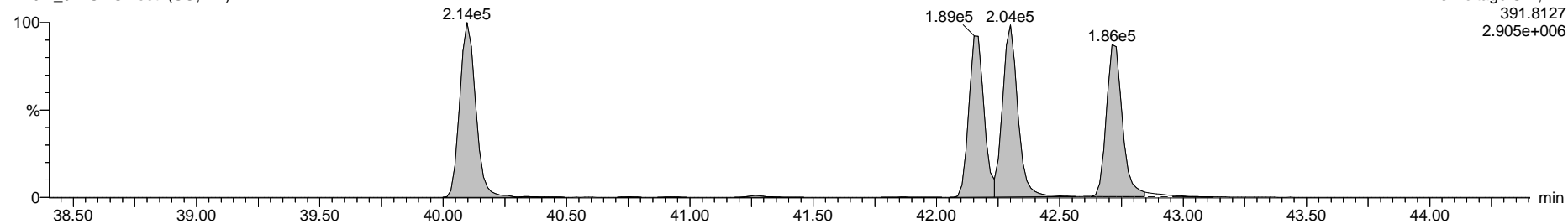
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Total Hexa-Dioxins

DX9M_072S1 Smooth(SG,1x2)

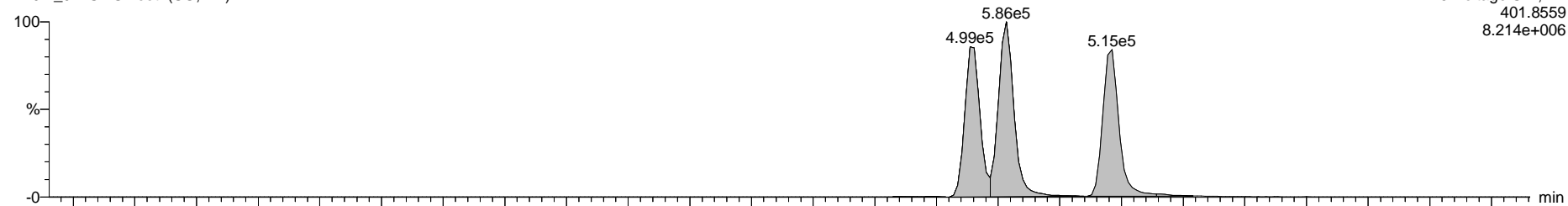


DX9M_072S1 Smooth(SG,1x2)

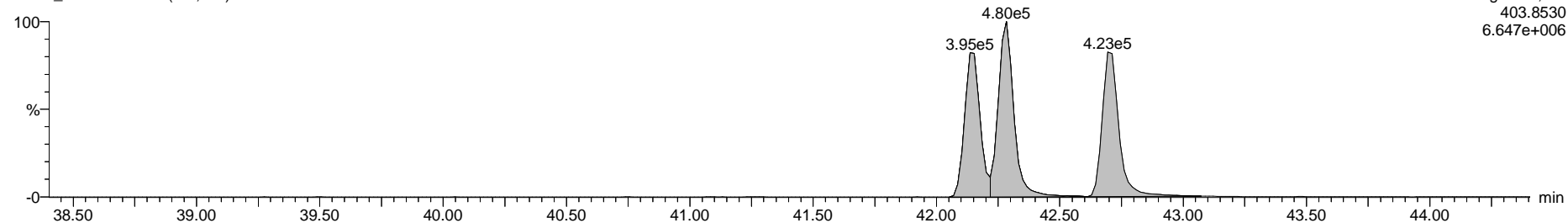


13C-1,2,3,4,7,8-HxCDD

DX9M_072S1 Smooth(SG,1x2)



DX9M_072S1 Smooth(SG,1x2)

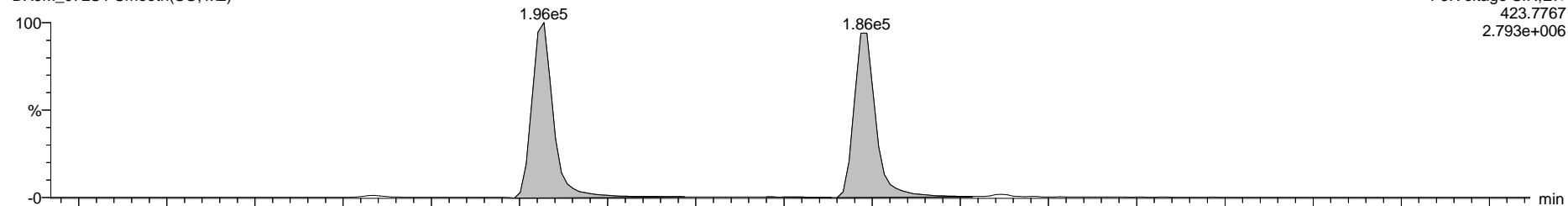


Axys Analytical Services, Ltd.

Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

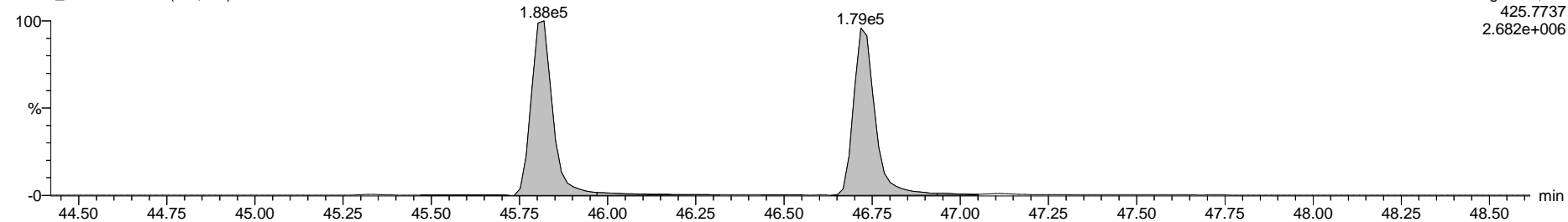
Total Hepta-Dioxins

DX9M_072S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
2.793e+006

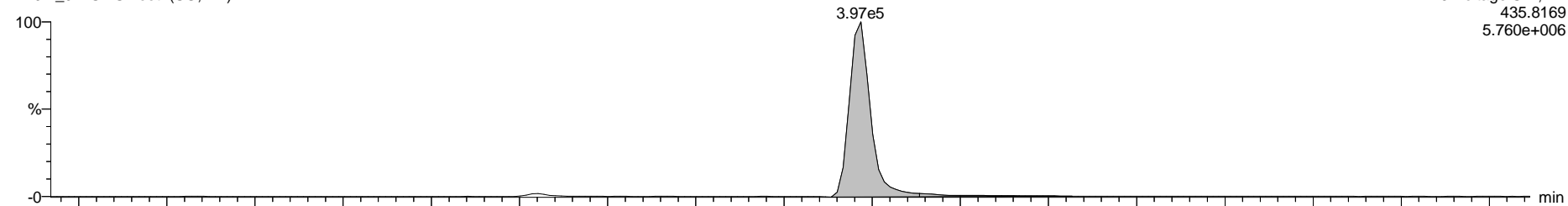
DX9M_072S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
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2.682e+006

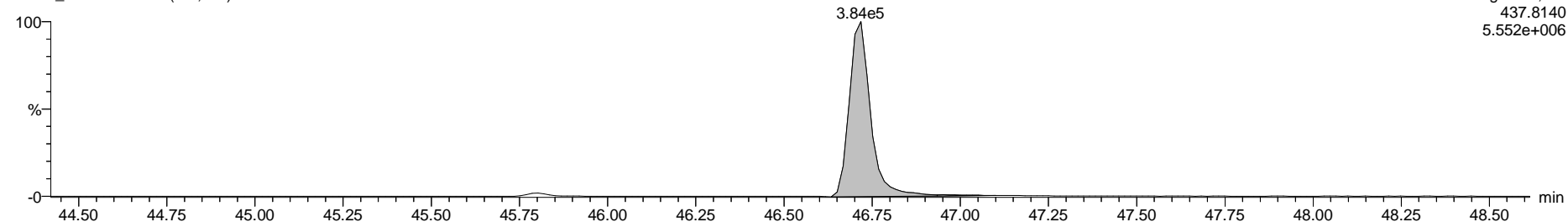
13C-1,2,3,4,6,7,8-HpCDD

DX9M_072S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
5.760e+006

DX9M_072S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
5.552e+006

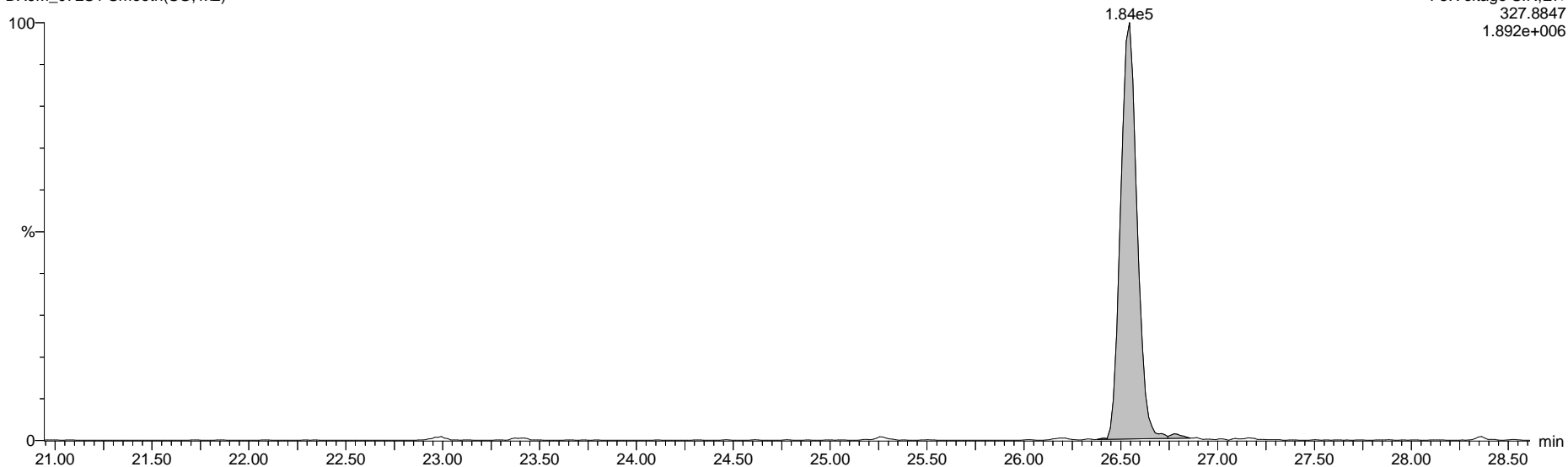


Axys Analytical Services, Ltd.

Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

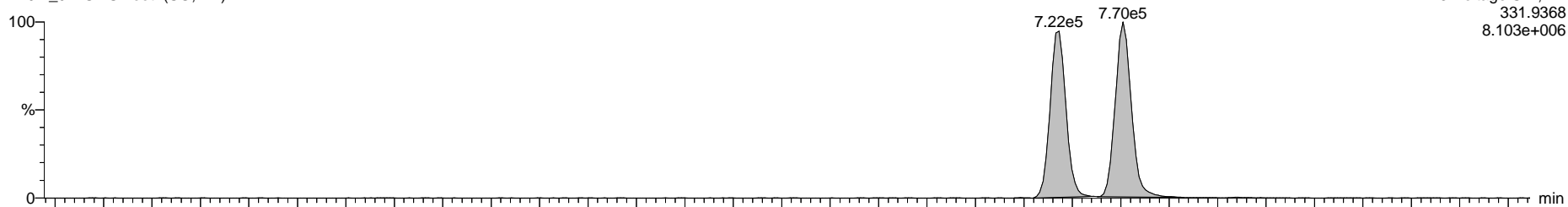
37Cl-2,3,7,8-TCDD

DX9M_072S1 Smooth(SG,1x2)

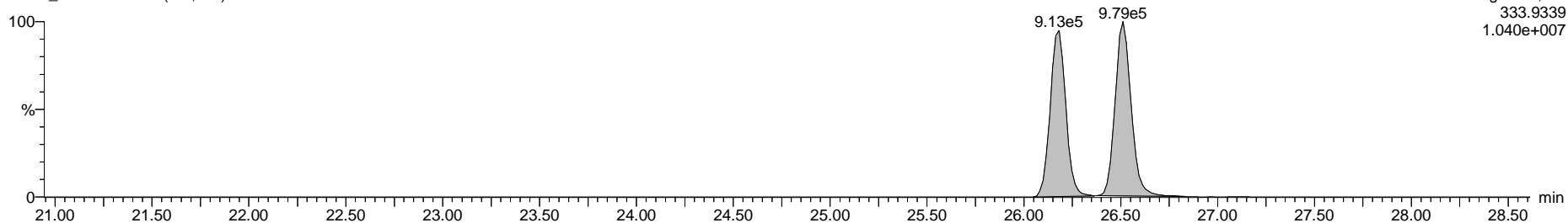


13C-1,2,3,4-TCDD

DX9M_072S1 Smooth(SG,1x2)



DX9M_072S1 Smooth(SG,1x2)

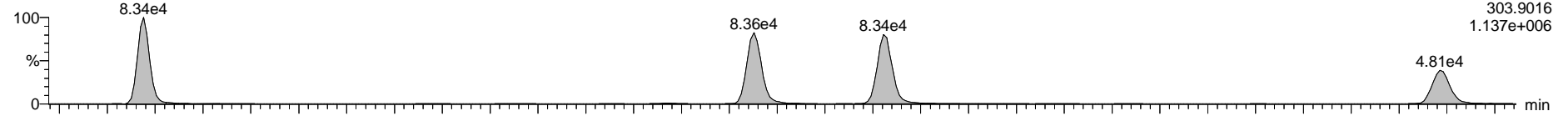


Axys Analytical Services, Ltd.

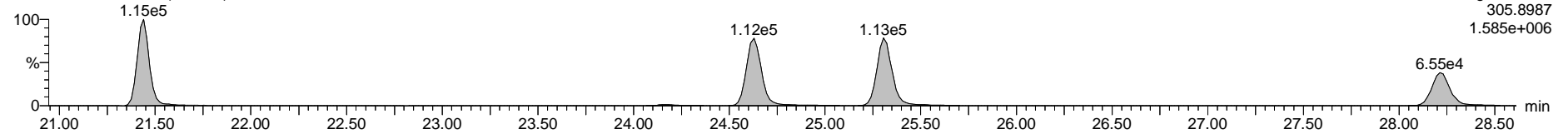
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Total Tetra-Furans

DX9M_072S1 Smooth(SG,1x2)

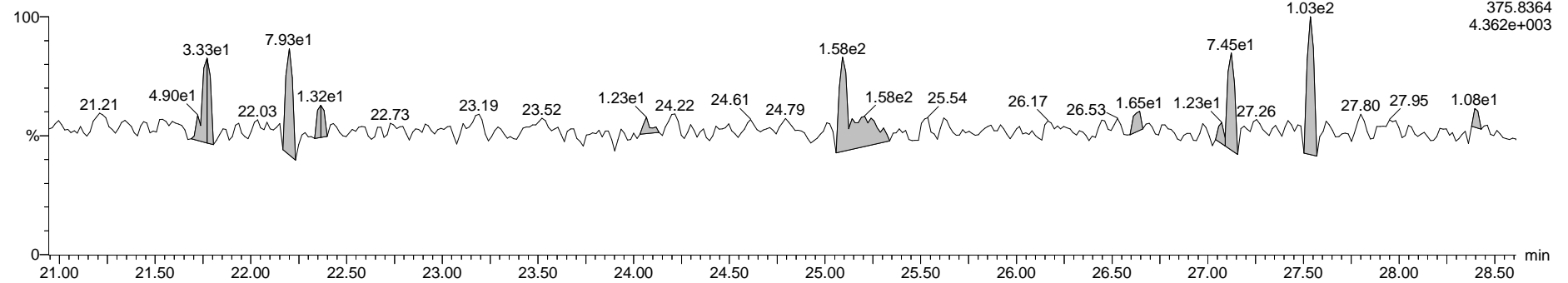


DX9M_072S1 Smooth(SG,1x2)



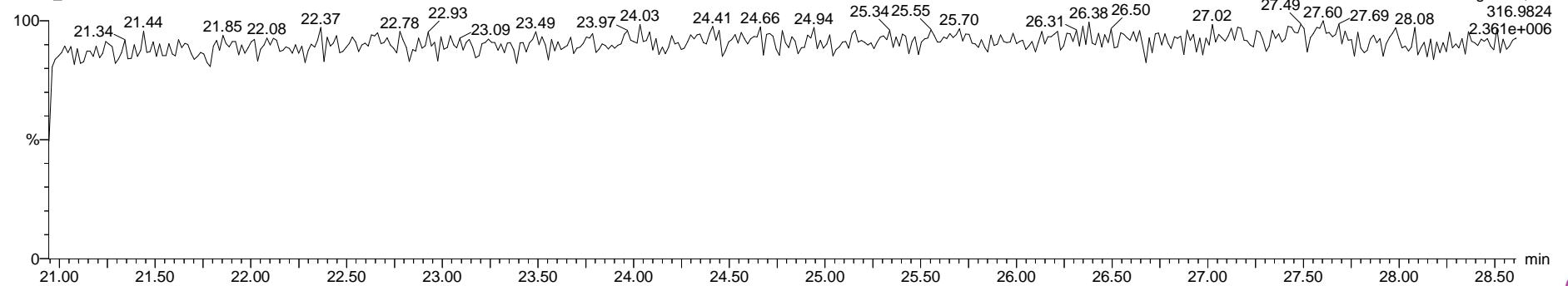
Hexa DPE

DX9M_072S1 Smooth(SG,1x2)



Tetra Lock

DX9M_072S1

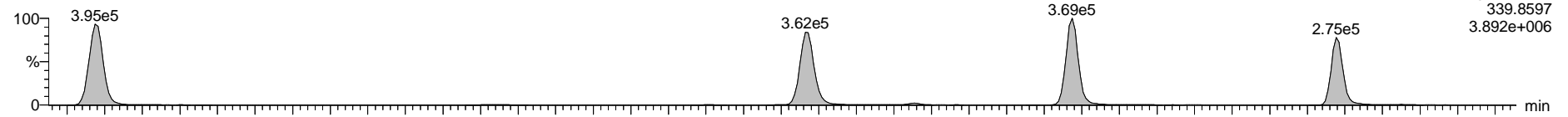


Axys Analytical Services, Ltd.

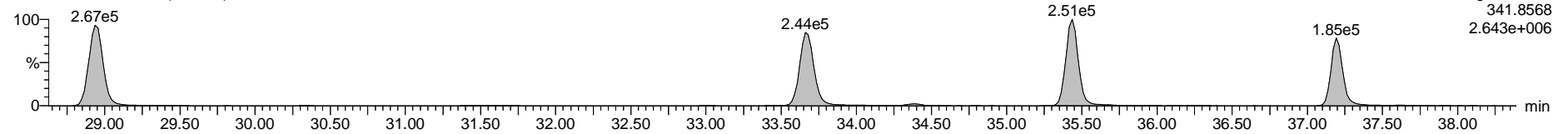
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Total Penta-Furans

DX9M_072S1 Smooth(SG,1x2)

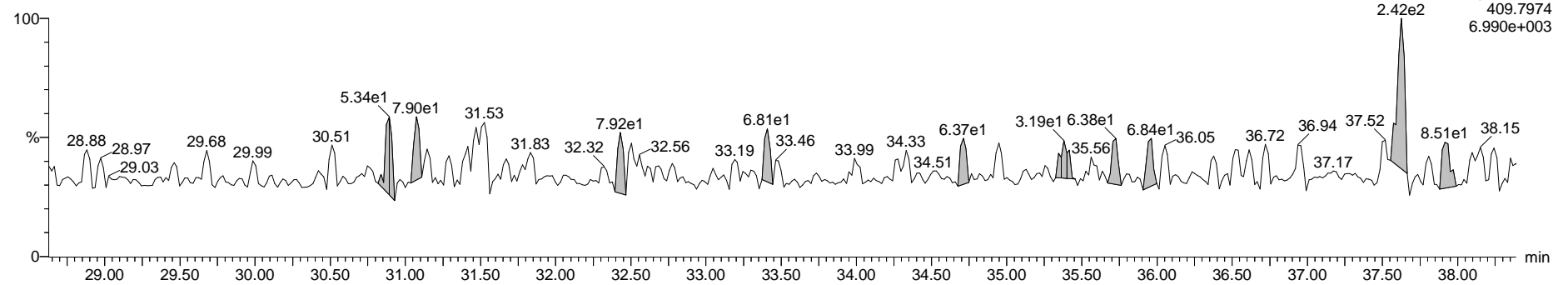


DX9M_072S1 Smooth(SG,1x2)



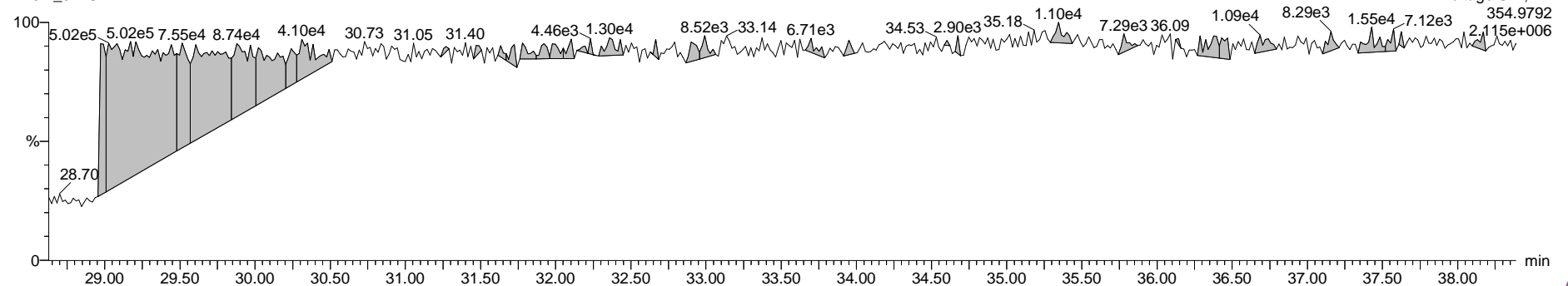
Hepta DPE

DX9M_072S1 Smooth(SG,1x2)



Penta Lock

DX9M_072S1

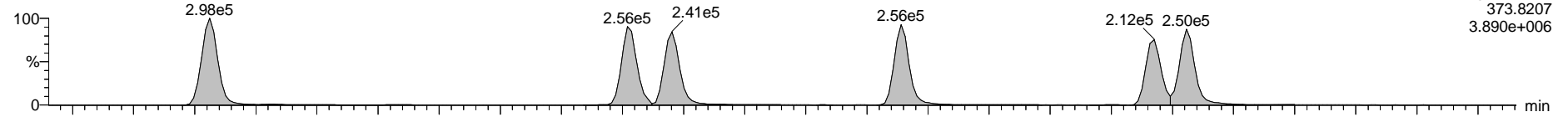


Axys Analytical Services, Ltd.

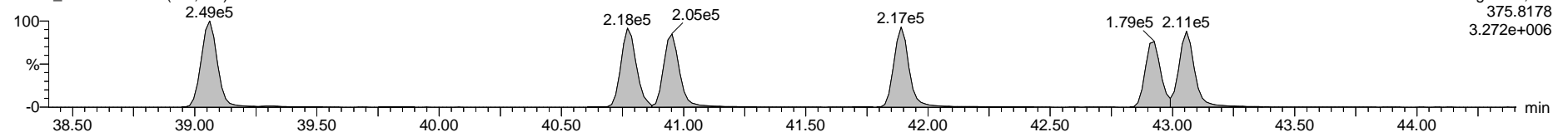
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Total Hexa-Furans

DX9M_072S1 Smooth(SG,1x2)

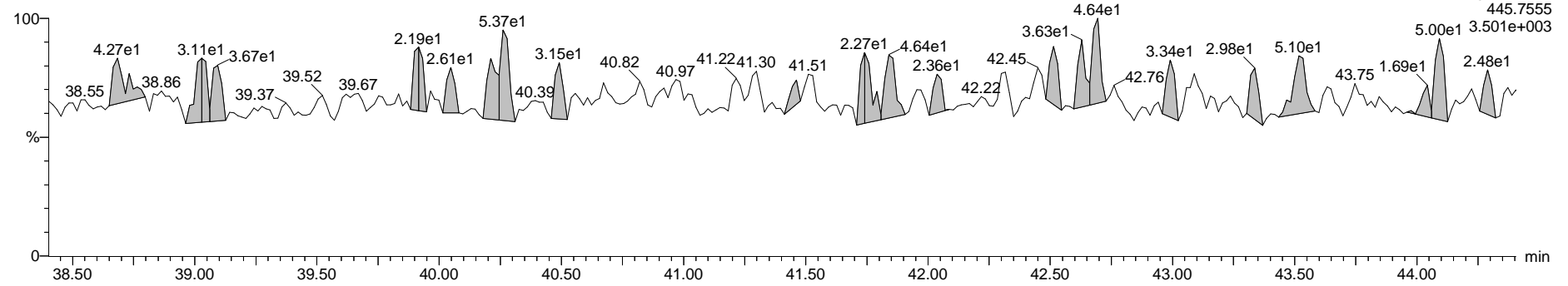


DX9M_072S1 Smooth(SG,1x2)



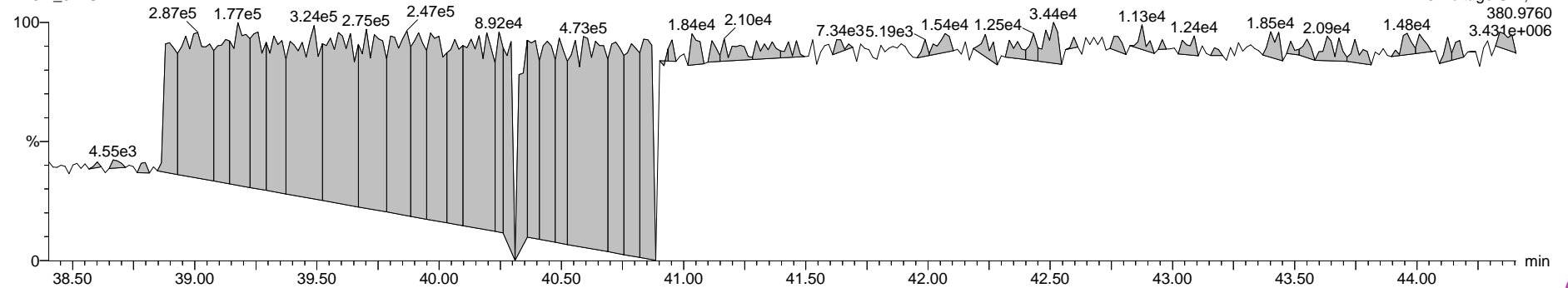
Octa DPE

DX9M_072S1 Smooth(SG,1x2)



Hexa Lock

DX9M_072S1

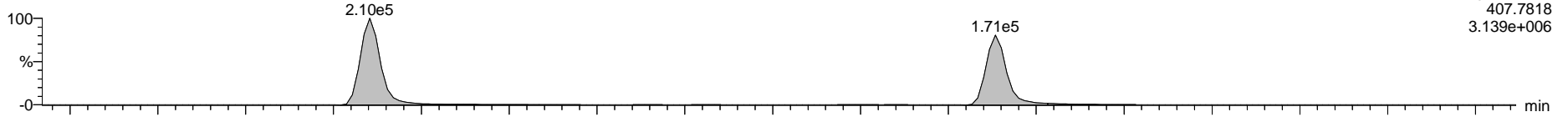


Axys Analytical Services, Ltd.

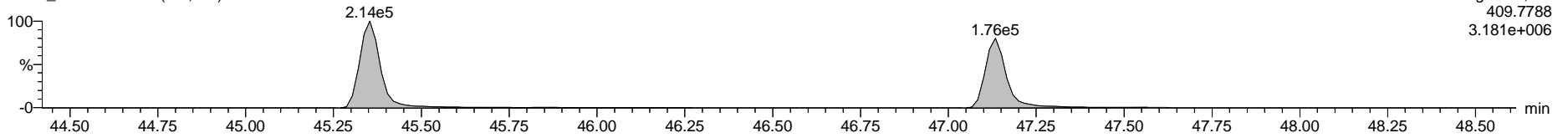
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Total Hepta-Furans

DX9M_072S1 Smooth(SG,1x2)

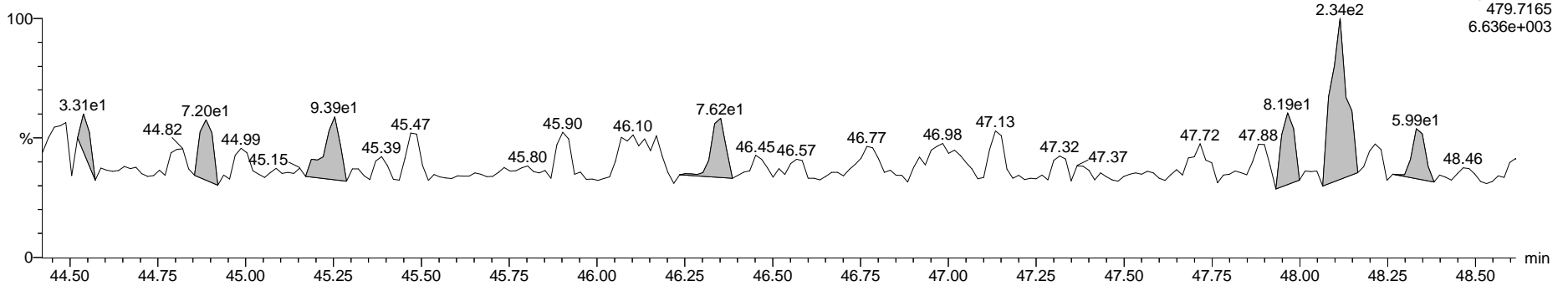


DX9M_072S1 Smooth(SG,1x2)



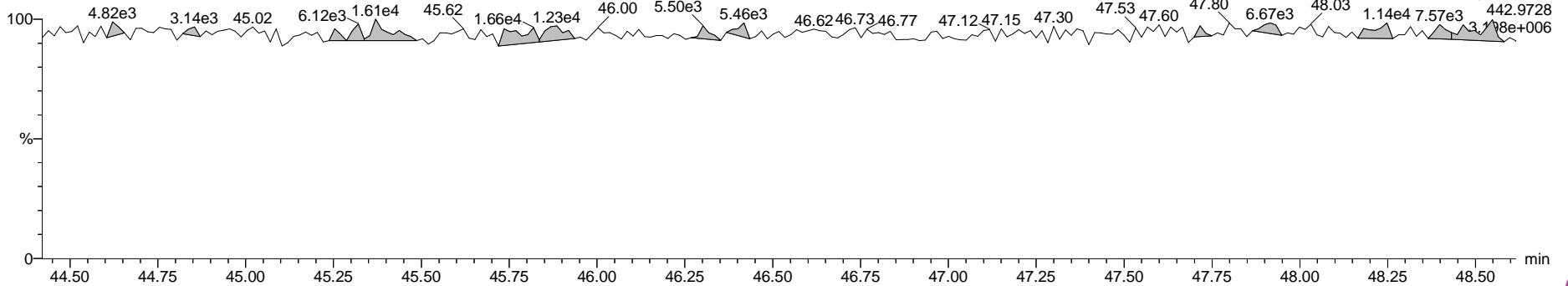
Nona DPE

DX9M_072S1 Smooth(SG,1x2)



Hepta Lock

DX9M_072S1

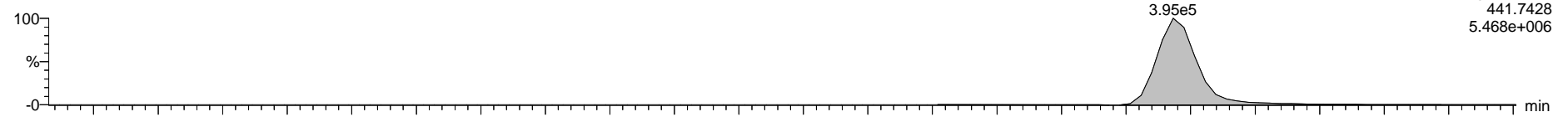


Axys Analytical Services, Ltd.

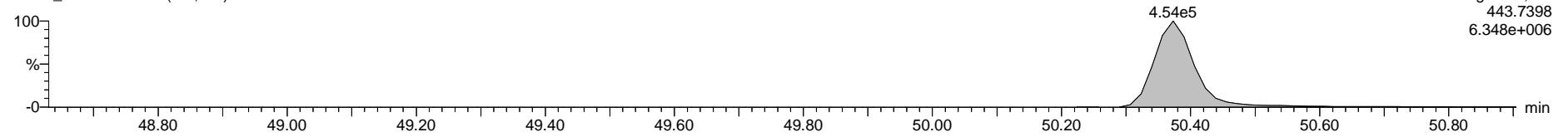
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OCDF

DX9M_072S1 Smooth(SG,1x2)

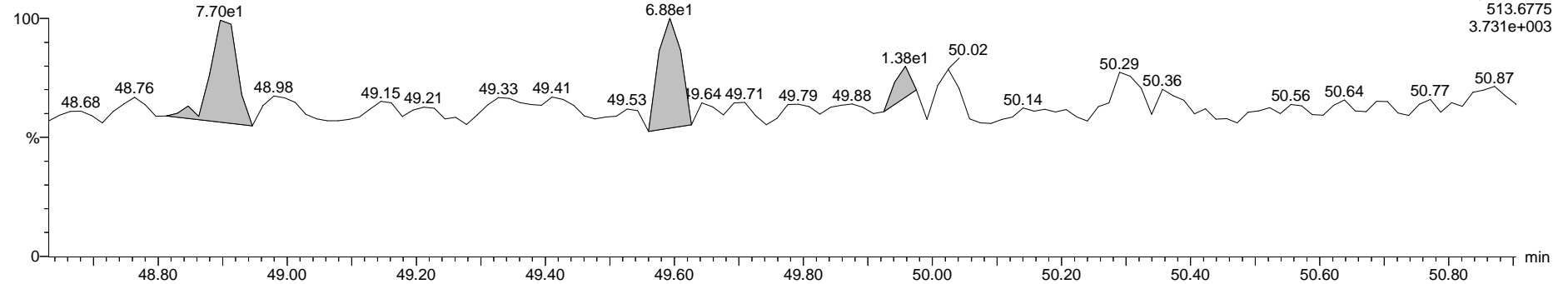


DX9M_072S1 Smooth(SG,1x2)



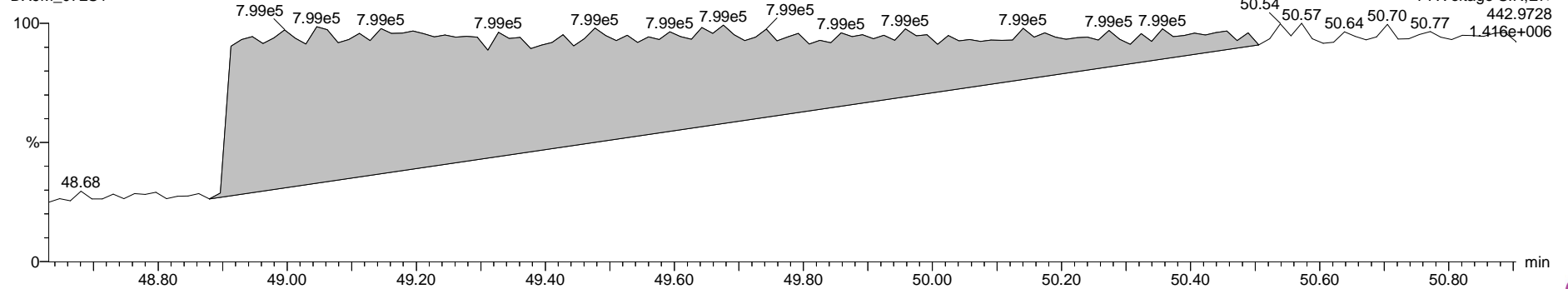
Deca DPE

DX9M_072S1 Smooth(SG,1x2)



Octa Lock

DX9M_072S1



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_072-A.qld

Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

	Name	Amount	Resp	Ratio	Ratio2	RF	RRF	RRF:Mean	RRF:SD	RRF:Rel:SD
1	2,3,7,8-TCDF	42.800	1.07e6	0.74	NO	25.27	0.739	0.7651	0.020	2.60
2	1,2,3,7,8-PeCDF	184.000	3.67e6	1.47	NO	33.63	0.827	0.8337	0.027	3.19
3	2,3,4,7,8-PeCDF	188.000	3.65e6	1.46	NO	35.40	0.828	0.8477	0.012	1.37
4	1,2,3,4,7,8-HxCDF	200.000	2.99e6	1.18	NO	40.74	0.935	0.9598	0.028	2.96
5	1,2,3,6,7,8-HxCDF	190.000	3.25e6	1.19	NO	40.92	0.897	0.9134	0.025	2.68
6	2,3,4,6,7,8-HxCDF	212.000	3.06e6	1.18	NO	41.86	0.845	0.8687	0.021	2.42
7	1,2,3,7,8,9-HxCDF	210.000	2.70e6	1.19	NO	42.89	0.798	0.8083	0.025	3.08
8	1,2,3,4,6,7,8-HpCDF	200.000	2.51e6	0.98	NO	45.32	1.060	1.0563	0.017	1.65
9	1,2,3,4,7,8,9-HpCDF	200.000	2.08e6	0.99	NO	47.10	0.952	0.9574	0.023	2.43
10	OCDF	416.000	5.08e6	0.86	NO	50.36	0.880	0.8587	0.034	4.01
11	2,3,7,8-TCDD	40.000	9.39e5	0.75	NO	26.50	0.899	0.8954	0.028	3.10
12	1,2,3,7,8-PeCDD	208.000	3.15e6	0.62	NO	36.20	0.872	0.8772	0.011	1.22
13	1,2,3,4,7,8-HxCDD	226.000	2.85e6	1.22	NO	42.14	0.815	0.8179	0.017	2.12
14	1,2,3,6,7,8-HxCDD	222.000	2.96e6	1.23	NO	42.27	0.766	0.7585	0.014	1.89
15	1,2,3,7,8,9-HxCDD	216.000	2.79e6	1.22	NO	42.70	0.786	0.7714	0.028	3.69
16	1,2,3,4,6,7,8-HpCDD	190.000	2.22e6	1.04	NO	46.70	0.953	0.9637	0.013	1.31
17	OCDD	400.000	5.09e6	0.87	NO	50.27	0.917	0.9273	0.011	1.19
18	13C-2,3,7,8-TCDF	100.000	3.38e6	0.75	NO	25.24	1.435	1.4191	0.044	3.09
19	13C-1,2,3,7,8-PeCDF	100.000	2.41e6	1.54	NO	33.59	1.024	0.9902	0.116	11.71
20	13C-2,3,4,7,8-PeCDF	100.000	2.35e6	1.51	NO	35.36	0.997	0.9637	0.104	10.81
21	13C-1,2,3,4,7,8-HxCDF	100.000	1.60e6	0.50	NO	40.72	1.027	1.0195	0.018	1.80
22	13C-1,2,3,6,7,8-HxCDF	100.000	1.90e6	0.50	NO	40.90	1.224	1.1864	0.072	6.09
23	13C-2,3,4,6,7,8-HxCDF	100.000	1.71e6	0.51	NO	41.84	1.099	1.0883	0.024	2.17
24	13C-1,2,3,7,8,9-HxCDF	100.000	1.61e6	0.50	NO	42.88	1.036	1.0157	0.013	1.28
25	13C-1,2,3,4,6,7,8-HpCDF	100.000	1.18e6	0.44	NO	45.30	0.760	0.8166	0.038	4.60
26	13C-1,2,3,4,7,8,9-HpCDF	100.000	1.09e6	0.44	NO	47.08	0.702	0.7522	0.034	4.52
27	13C-2,3,7,8-TCDD	100.000	2.61e6	0.78	NO	26.46	1.109	1.0907	0.056	5.15
28	13C-1,2,3,7,8-PeCDD	100.000	1.74e6	0.62	NO	36.18	0.739	0.7058	0.095	13.51
29	13C-1,2,3,4,7,8-HxCDD	100.000	1.55e6	1.26	NO	42.12	0.995	0.9752	0.018	1.89
30	13C-1,2,3,6,7,8-HxCDD	100.000	1.74e6	1.24	NO	42.25	1.119	1.1388	0.022	1.97
31	13C-1,2,3,4,6,7,8-HpCDD	100.000	1.23e6	1.04	NO	46.69	0.789	0.8543	0.055	6.40
32	13C-OCDD	200.000	2.77e6	0.89	NO	50.26	0.892	0.9704	0.068	6.98
33	13C-1,2,3,4-TCDD	100.000	2.35e6	0.80	NO	26.13	23527.1...	17709.6245	3308.886	18.68
34	13C-1,2,3,7,8,9-HxCDD	100.000	1.56e6	1.24	NO	42.68	15560.0...	11256.8637	2809.862	24.96
35	37Cl-2,3,7,8-TCDD	40.000	1.12e6			26.50	1.193	1.1915	0.058	4.87
36	Total Tetra-Furans	43.760						0.7651	0.020	2.60
37	Total Tetra-Dioxins	42.360						0.8954	0.028	3.10
38	Total Penta-Furans	200.000						0.8337	0.027	3.19
39	Total Penta-Dioxins	226.200						0.8772	0.011	1.22
40	Total Hexa-Furans	200.000						0.9598	0.028	2.96
41	Total Hexa-Dioxins	200.000						0.8179	0.017	2.12
42	Total Hepta-Furans	200.000						1.0563	0.017	1.65
43	Total Hepta-Dioxins	200.000						0.9637	0.013	1.31
44	Hexa DPE	0.000	1.34e2			21.49	0.000			
45	Hepta DPE	0.000	3.02e3			37.57	0.000			
46	Octa DPE	0.000	5.15e1			40.23	0.000			
47	Nona DPE	0.000	1.22e2			47.28	0.000			
48	Deca DPE	0.000	7.09e1			50.66	0.000			
49	Tetra Lock	0.000	1.16e4			27.75	0.000			
50	Penta Lock	0.000	1.13e5			29.21	0.000			
51	Hexa Lock	0.000	3.36e5			38.75	0.000			
52	Hepta Lock	0.000	6.07e3			46.97	0.000			
53	Octa Lock	0.000	4.99e5			49.36	0.000			

PV WL 22-JUN-2009



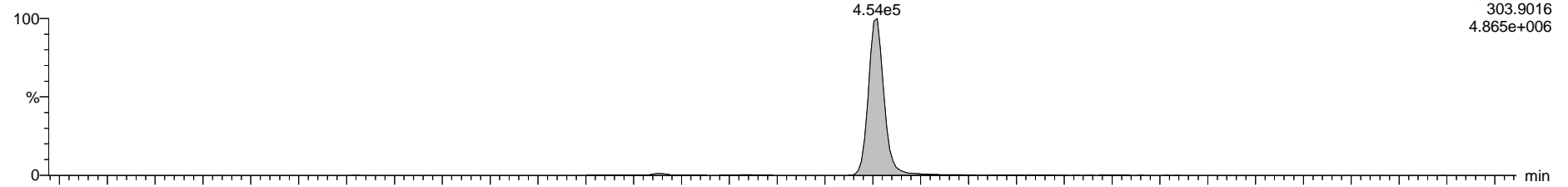
Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-A.cdb 22 Jun 2009 09:42:41

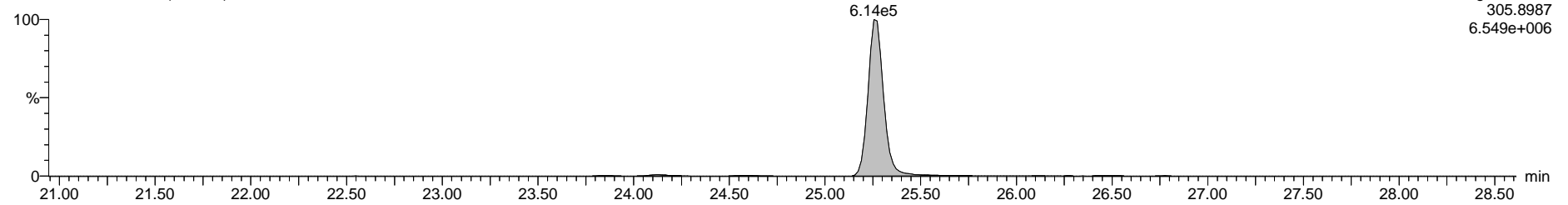
Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

Total Tetra-Furans

DX9M_072S7 Smooth(SG,1x2)

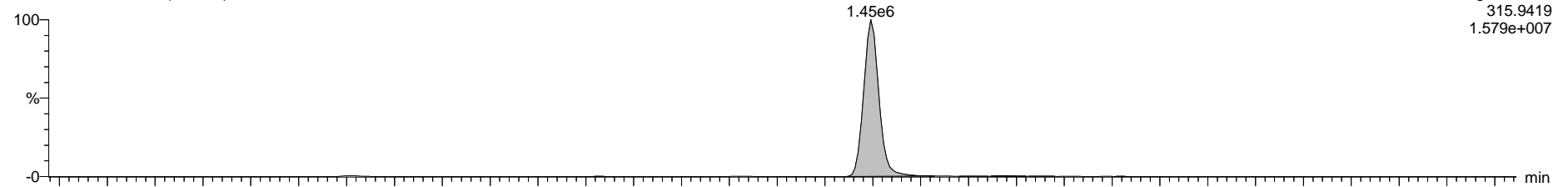


DX9M_072S7 Smooth(SG,1x2)

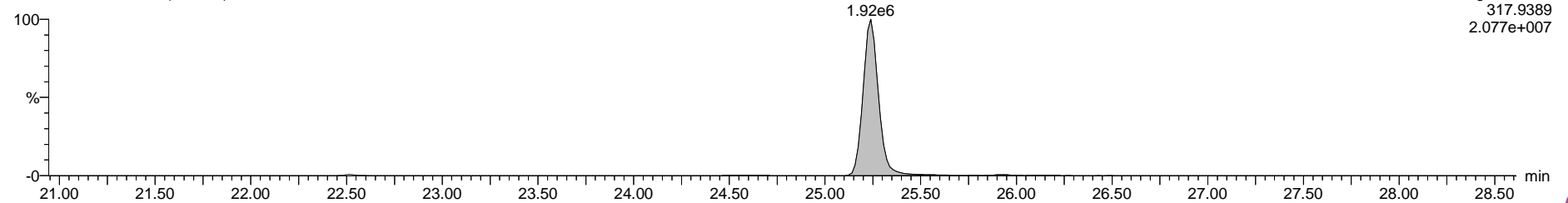


13C-2,3,7,8-TCDF

DX9M_072S7 Smooth(SG,1x2)



DX9M_072S7 Smooth(SG,1x2)

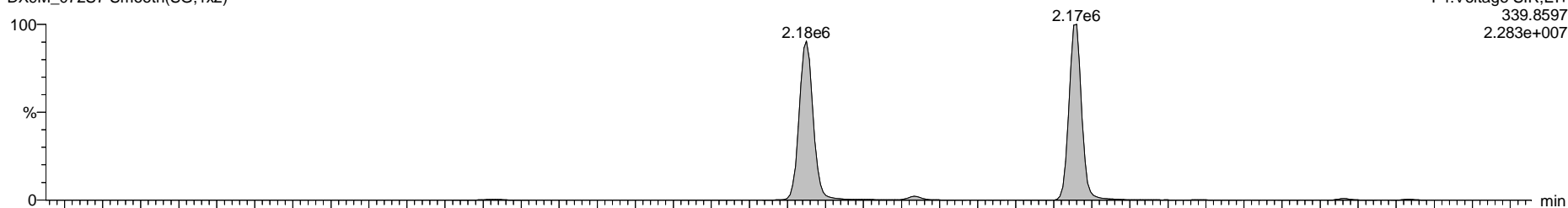


Axys Analytical Services, Ltd.

Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

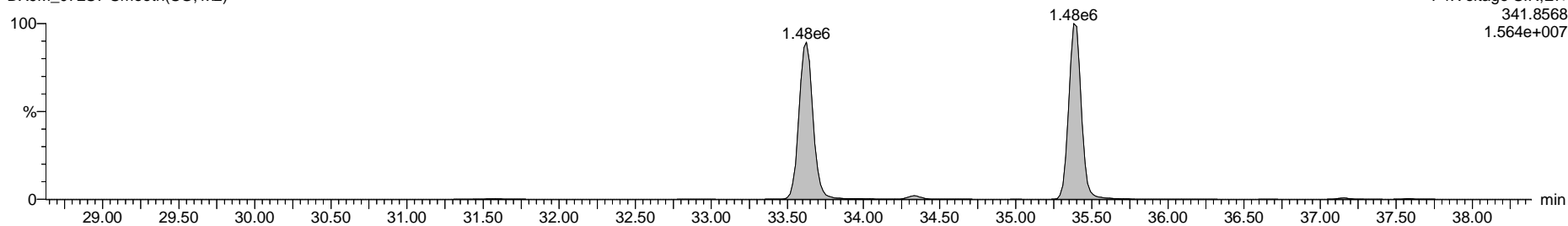
Total Penta-Furans

DX9M_072S7 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
2.283e+007

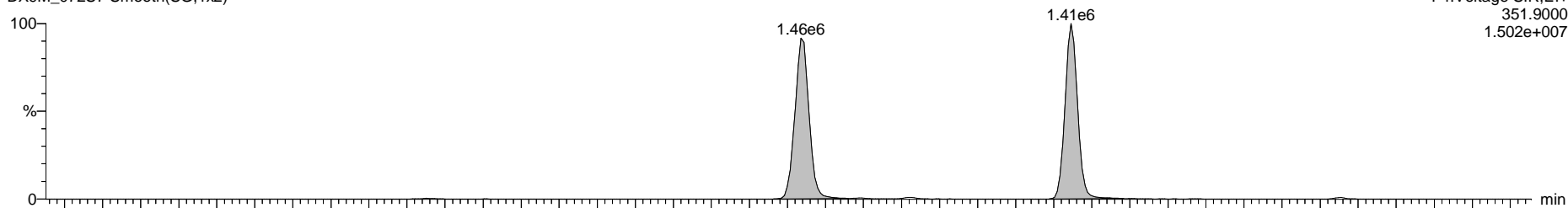
DX9M_072S7 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
1.564e+007

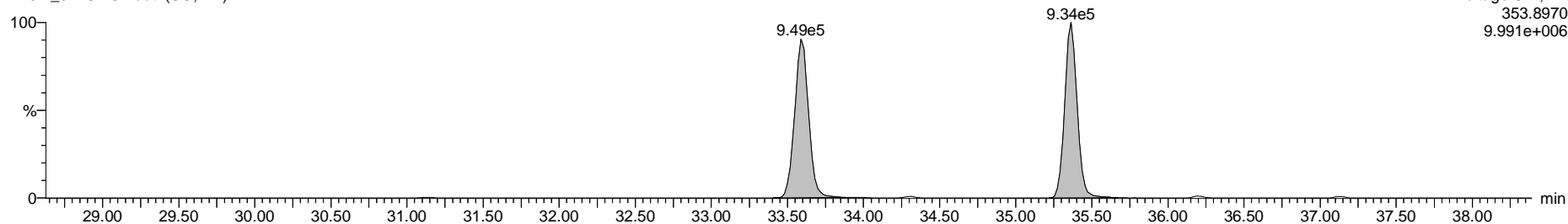
13C-1,2,3,7,8-PeCDF

DX9M_072S7 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
1.502e+007

DX9M_072S7 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8970
9.991e+006

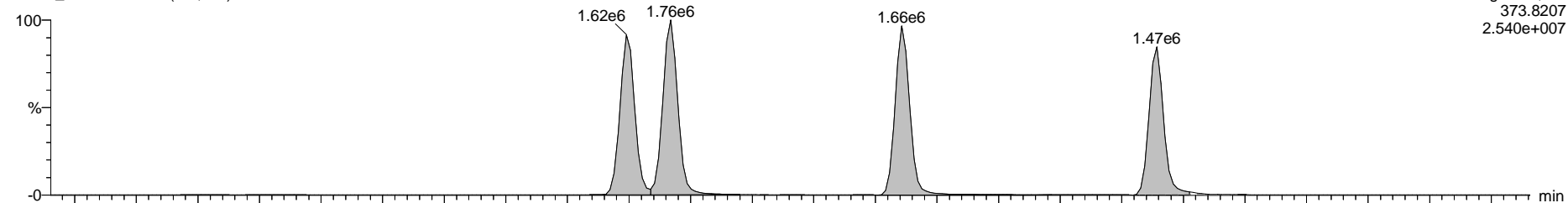


Axys Analytical Services, Ltd.

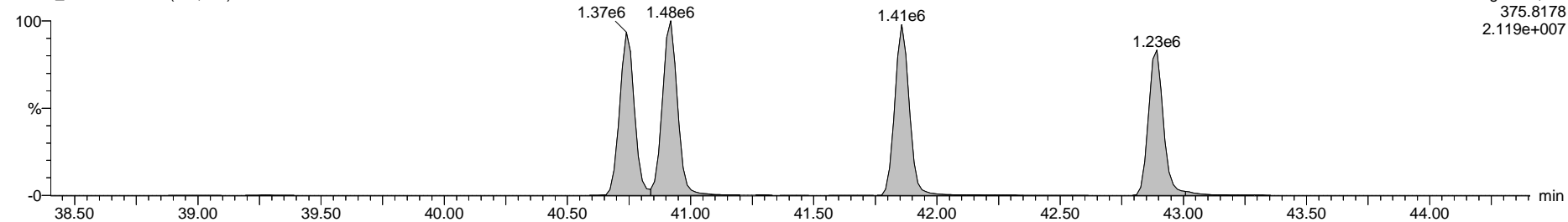
Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

Total Hexa-Furans

DX9M_072S7 Smooth(SG,1x2)

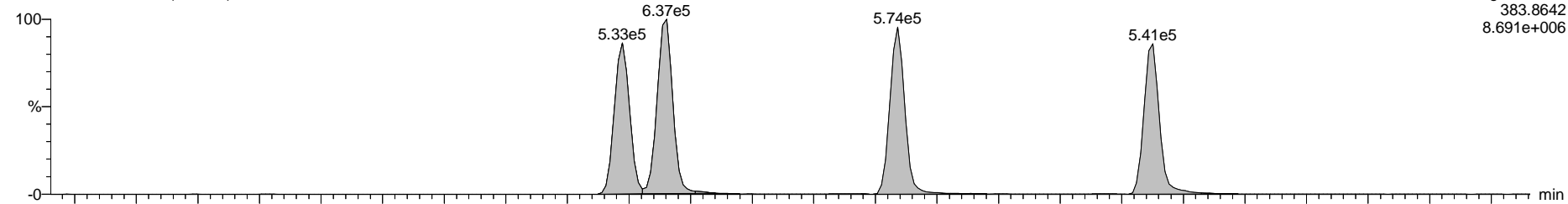


DX9M_072S7 Smooth(SG,1x2)

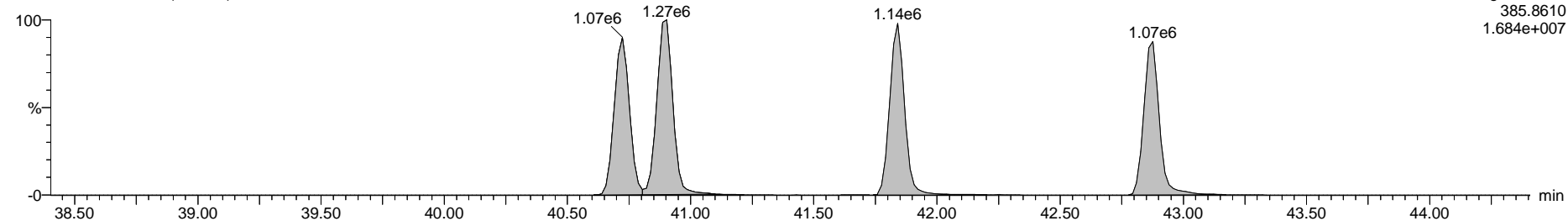


13C-1,2,3,4,7,8-HxCDF

DX9M_072S7 Smooth(SG,1x2)



DX9M_072S7 Smooth(SG,1x2)

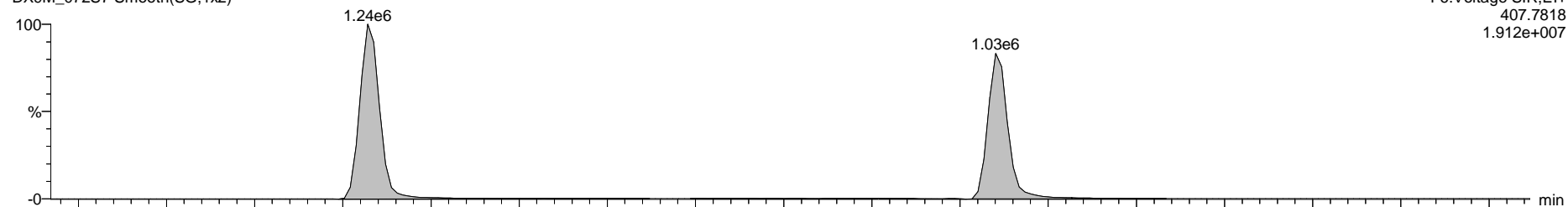


Axys Analytical Services, Ltd.

Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

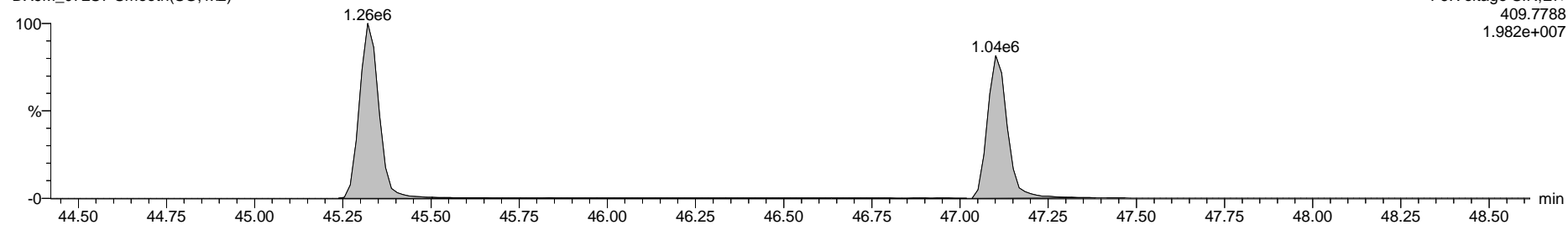
Total Hepta-Furans

DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
1.912e+007

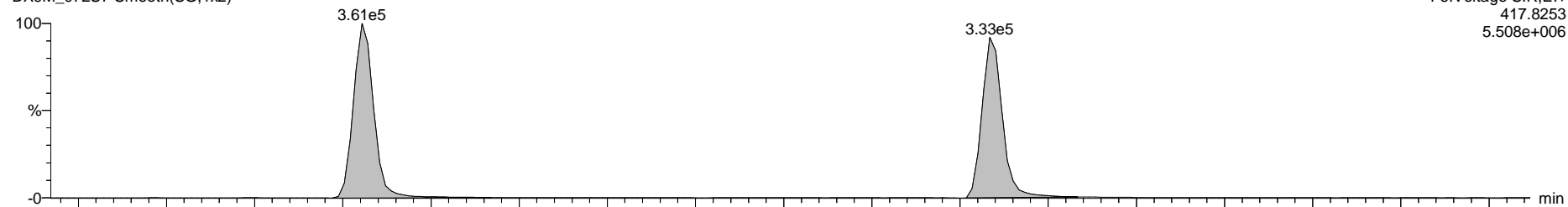
DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
1.982e+007

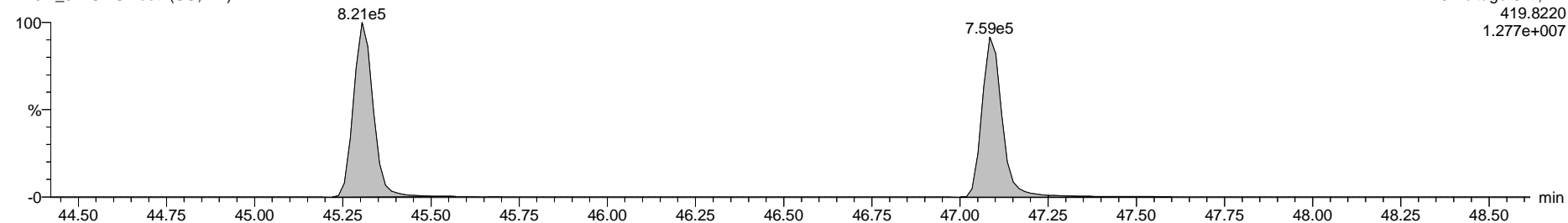
13C-1,2,3,4,6,7,8-HpCDF

DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
5.508e+006

DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
1.277e+007

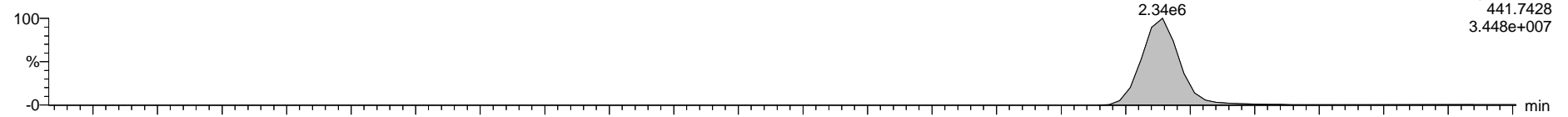


Axys Analytical Services, Ltd.

Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

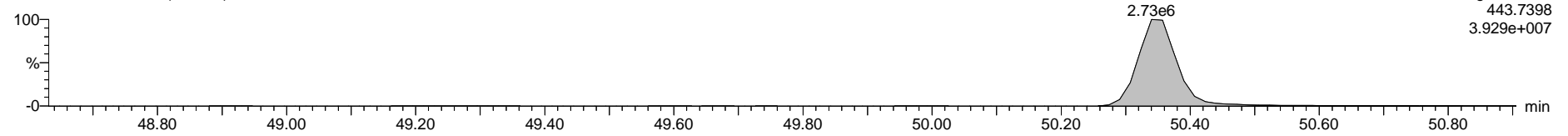
OCDF

DX9M_072S7 Smooth(SG,1x2)



F7:Voltage SIR,EI+
441.7428
3.448e+007

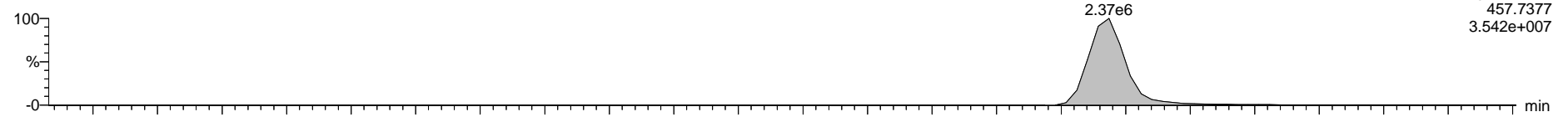
DX9M_072S7 Smooth(SG,1x2)



F7:Voltage SIR,EI+
443.7398
3.929e+007

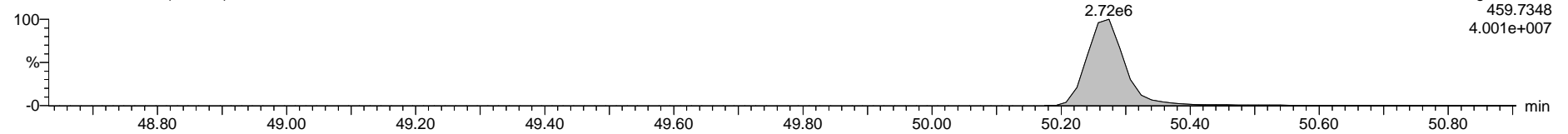
OCDD

DX9M_072S7 Smooth(SG,1x2)



F7:Voltage SIR,EI+
457.7377
3.542e+007

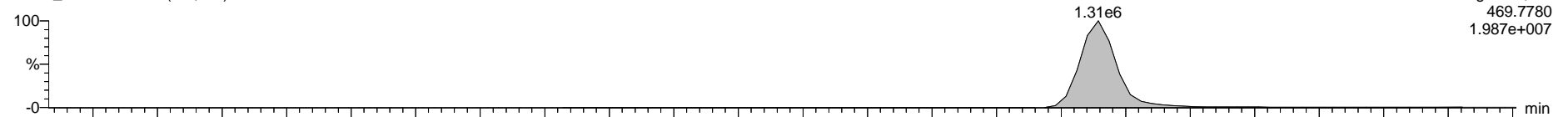
DX9M_072S7 Smooth(SG,1x2)



F7:Voltage SIR,EI+
459.7348
4.001e+007

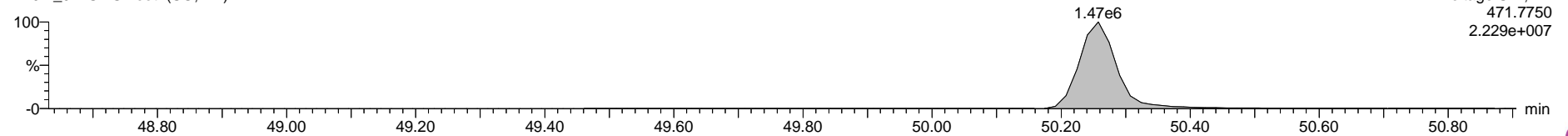
13C-OCDD

DX9M_072S7 Smooth(SG,1x2)



F7:Voltage SIR,EI+
469.7780
1.987e+007

DX9M_072S7 Smooth(SG,1x2)



F7:Voltage SIR,EI+
471.7750
2.229e+007

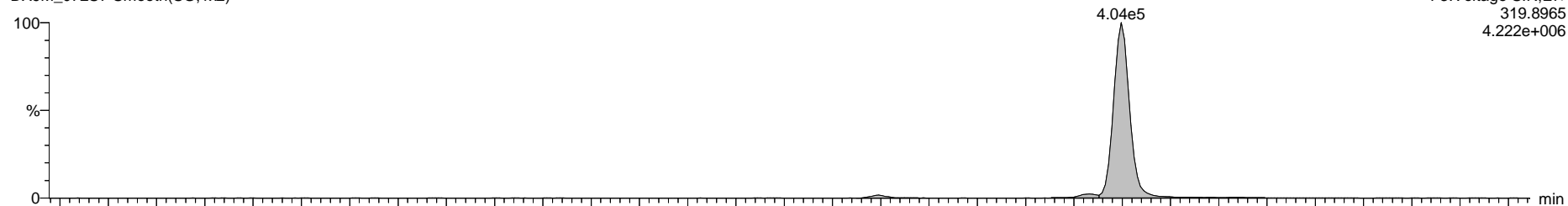


Axys Analytical Services, Ltd.

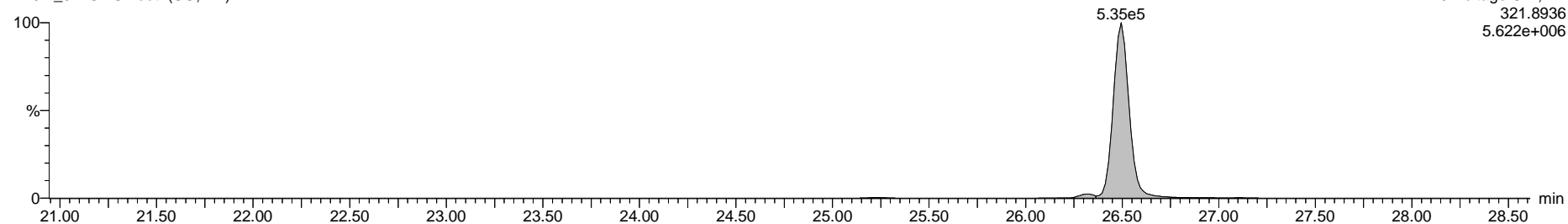
Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

Total Tetra-Dioxins

DX9M_072S7 Smooth(SG,1x2)

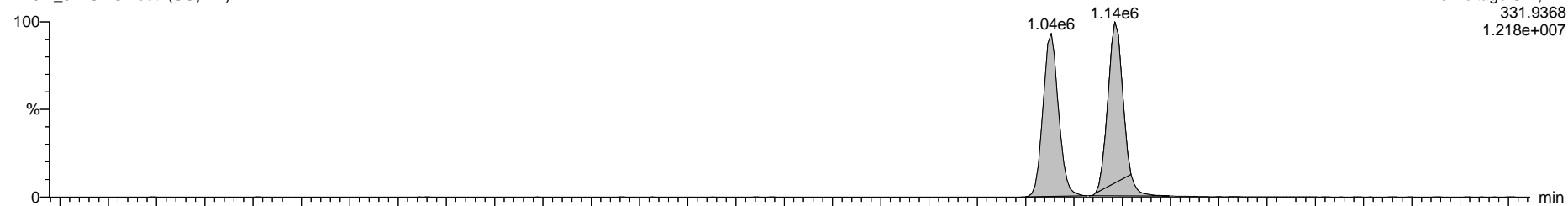


DX9M_072S7 Smooth(SG,1x2)

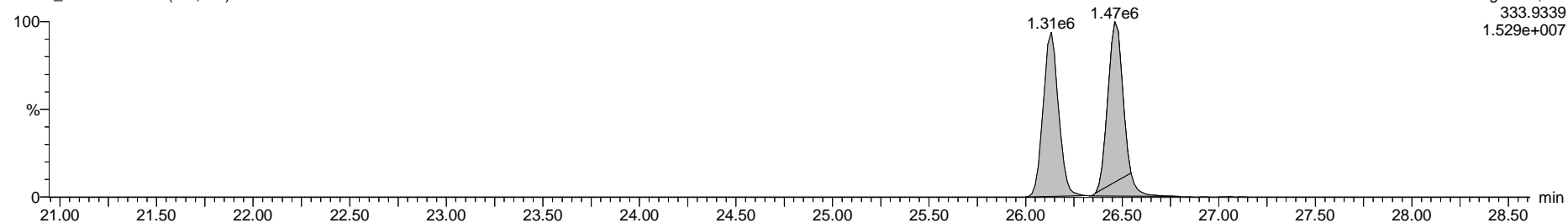


13C-2,3,7,8-TCDD

DX9M_072S7 Smooth(SG,1x2)



DX9M_072S7 Smooth(SG,1x2)

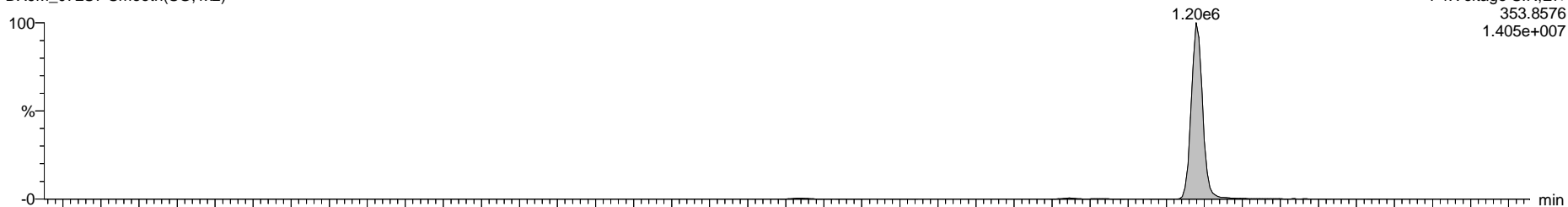


Axys Analytical Services, Ltd.

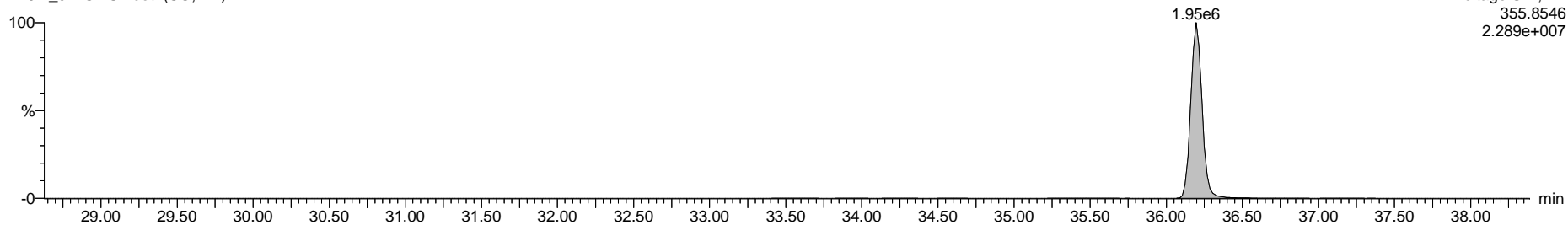
Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

Total Penta-Dioxins

DX9M_072S7 Smooth(SG,1x2)

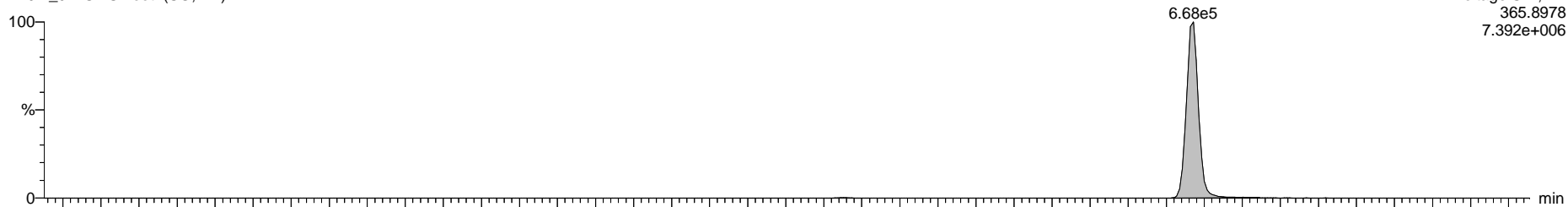


DX9M_072S7 Smooth(SG,1x2)

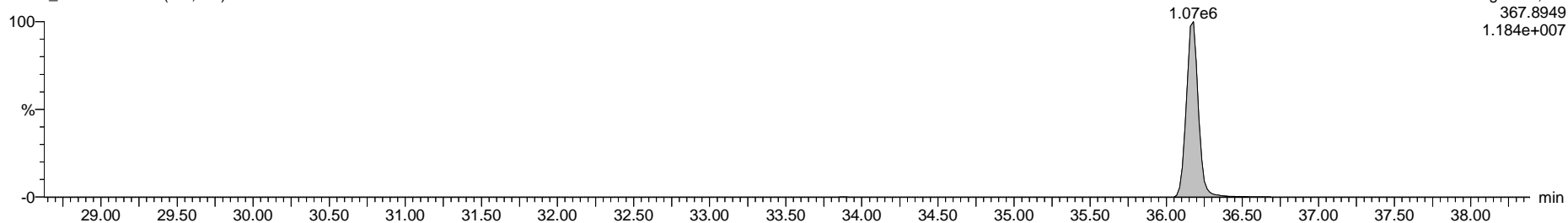


13C-1,2,3,7,8-PeCDD

DX9M_072S7 Smooth(SG,1x2)



DX9M_072S7 Smooth(SG,1x2)

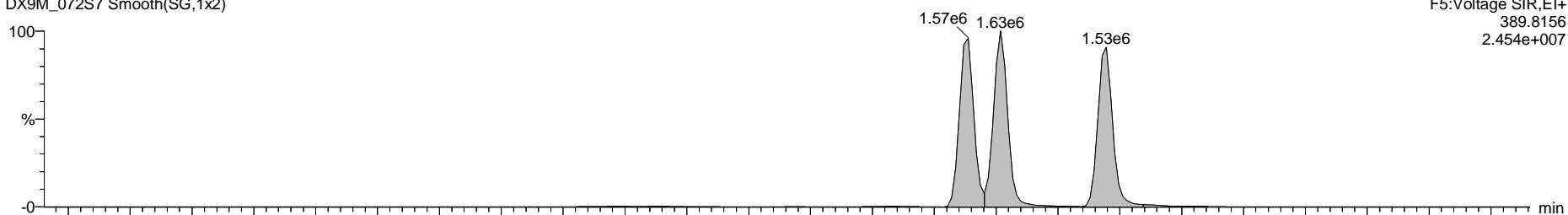


Axys Analytical Services, Ltd.

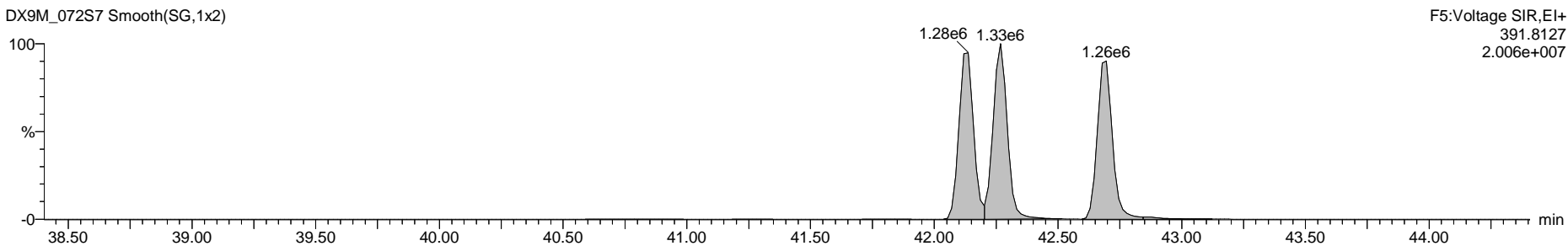
Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

Total Hexa-Dioxins

DX9M_072S7 Smooth(SG,1x2)

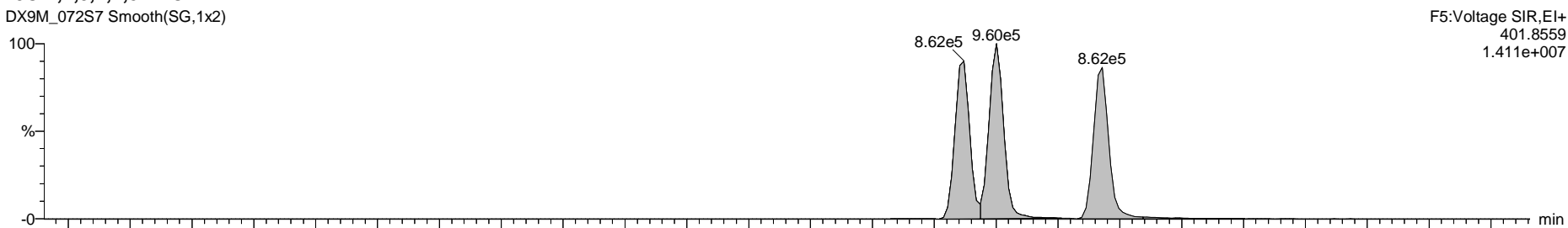


DX9M_072S7 Smooth(SG,1x2)

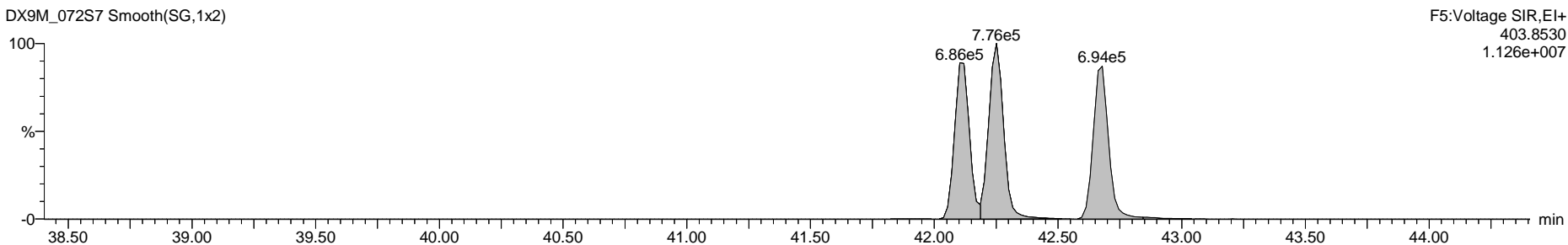


13C-1,2,3,4,7,8-HxCDD

DX9M_072S7 Smooth(SG,1x2)



DX9M_072S7 Smooth(SG,1x2)

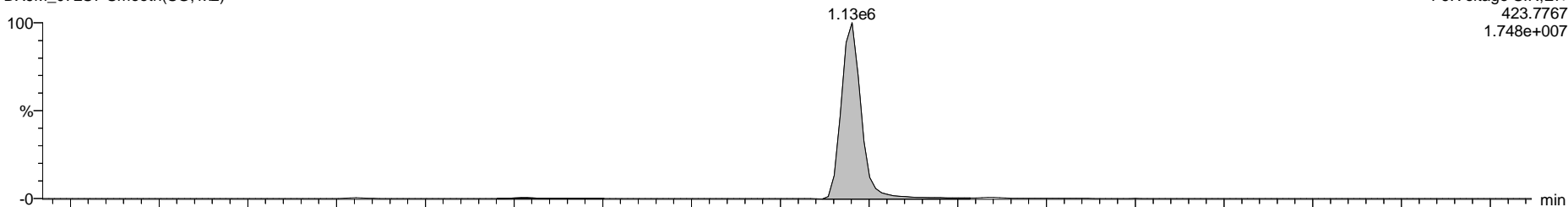


Axys Analytical Services, Ltd.

Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

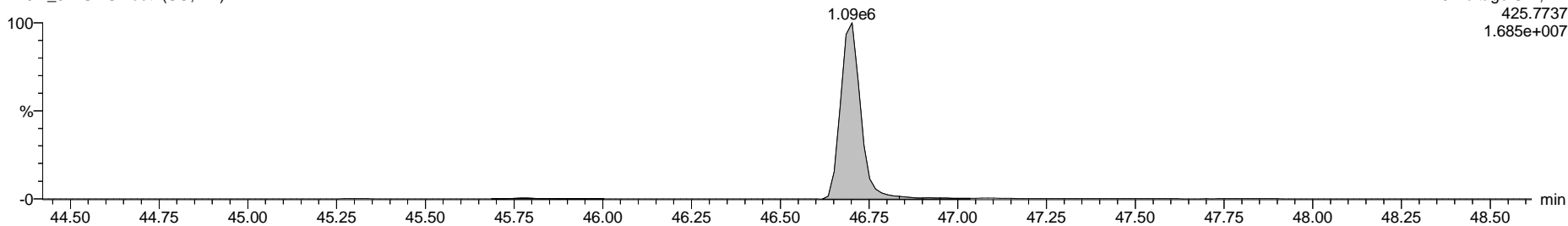
Total Hepta-Dioxins

DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
1.748e+007

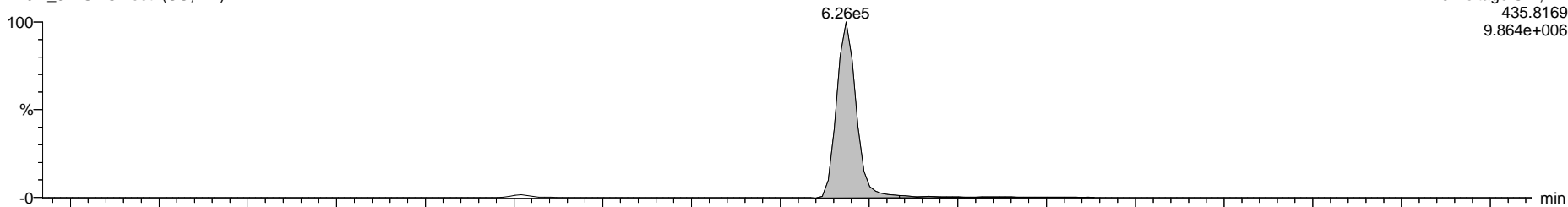
DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
1.685e+007

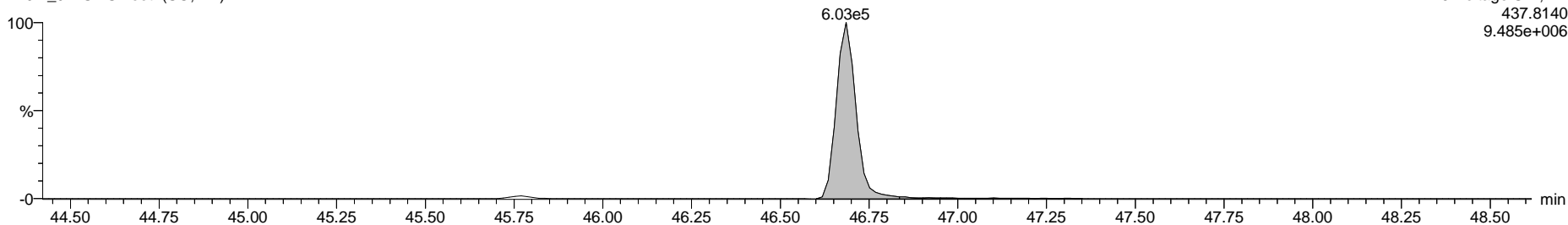
13C-1,2,3,4,6,7,8-HpCDD

DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
9.864e+006

DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
9.485e+006

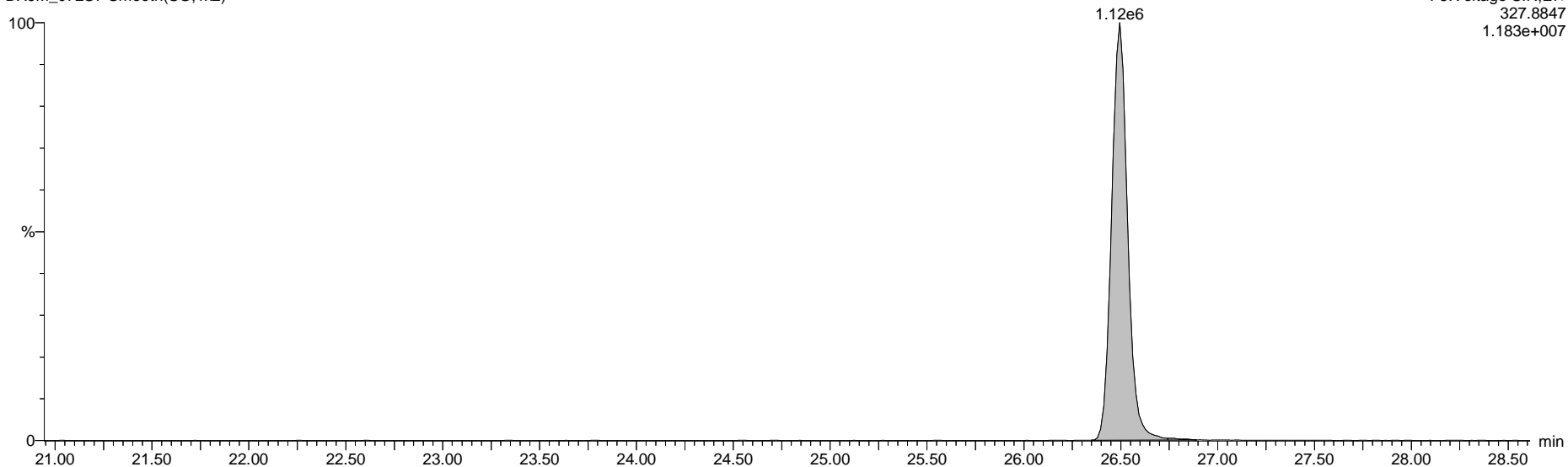


Axys Analytical Services, Ltd.

Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

37Cl-2,3,7,8-TCDD

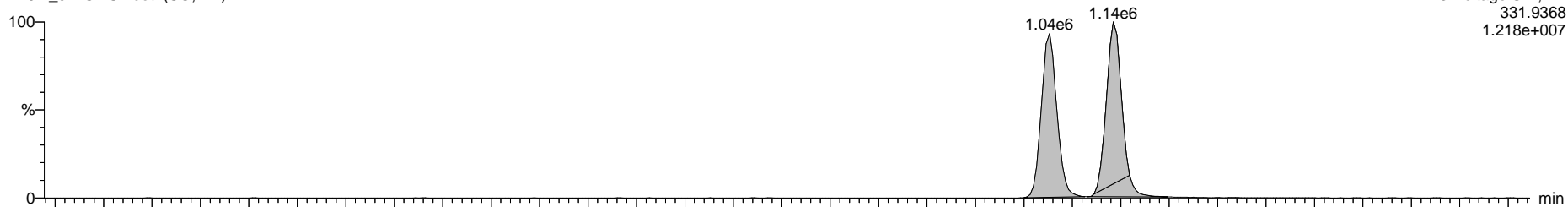
DX9M_072S7 Smooth(SG,1x2)



F3:Voltage SIR,EI+
327.8847
1.183e+007

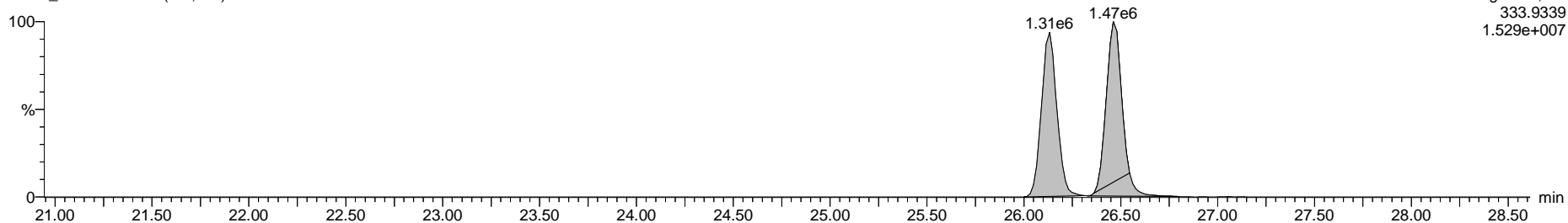
13C-1,2,3,4-TCDD

DX9M_072S7 Smooth(SG,1x2)



F3:Voltage SIR,EI+
331.9368
1.218e+007

DX9M_072S7 Smooth(SG,1x2)



F3:Voltage SIR,EI+
333.9339
1.529e+007

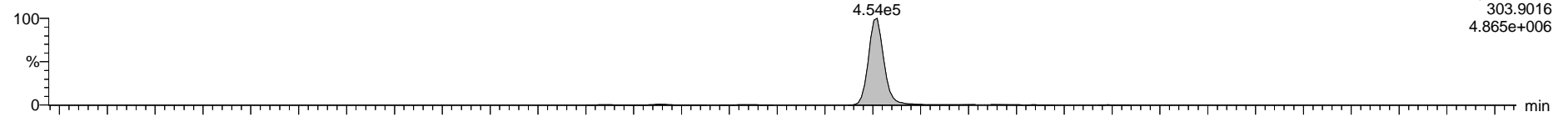


Axys Analytical Services, Ltd.

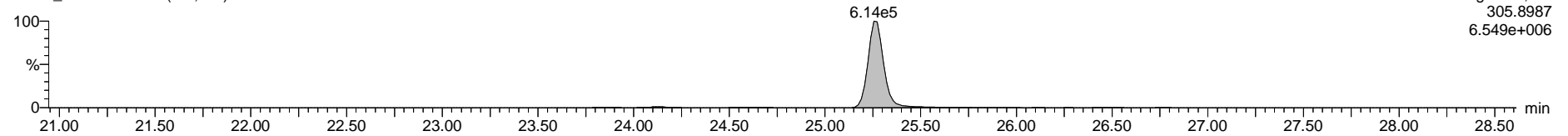
Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

Total Tetra-Furans

DX9M_072S7 Smooth(SG,1x2)

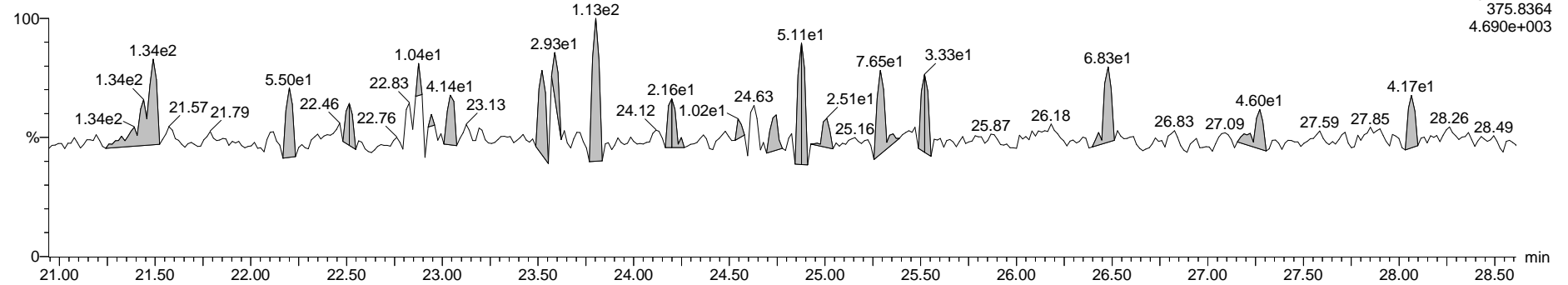


DX9M_072S7 Smooth(SG,1x2)



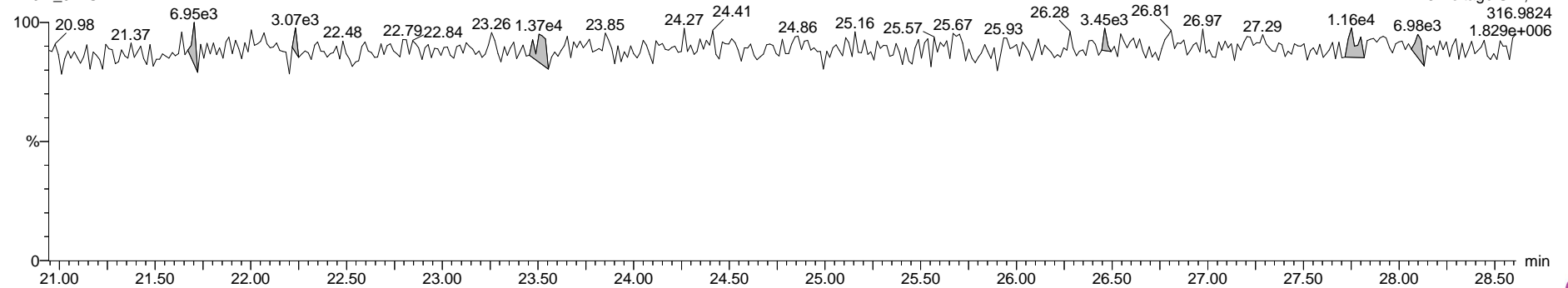
Hexa DPE

DX9M_072S7 Smooth(SG,1x2)



Tetra Lock

DX9M_072S7

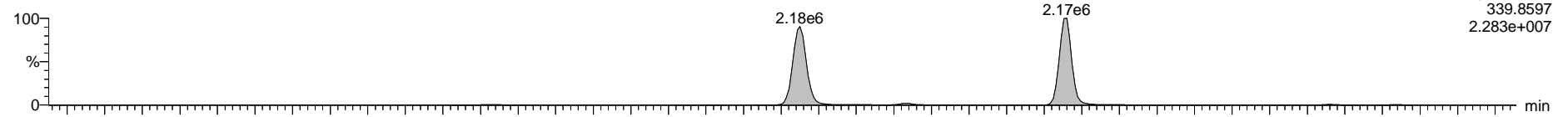


Axys Analytical Services, Ltd.

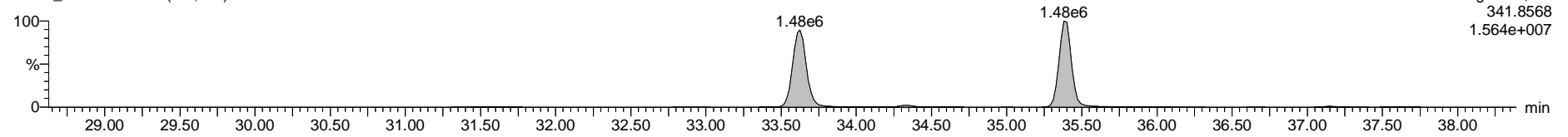
Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

Total Penta-Furans

DX9M_072S7 Smooth(SG,1x2)

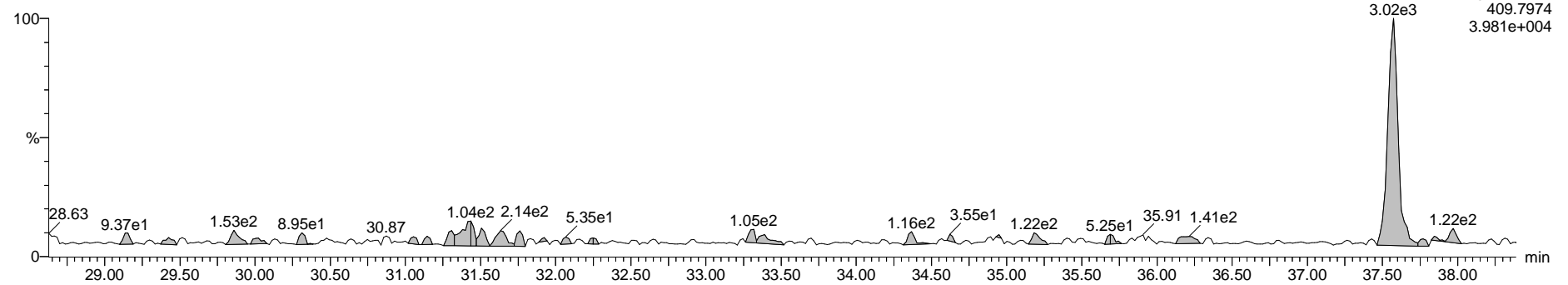


DX9M_072S7 Smooth(SG,1x2)



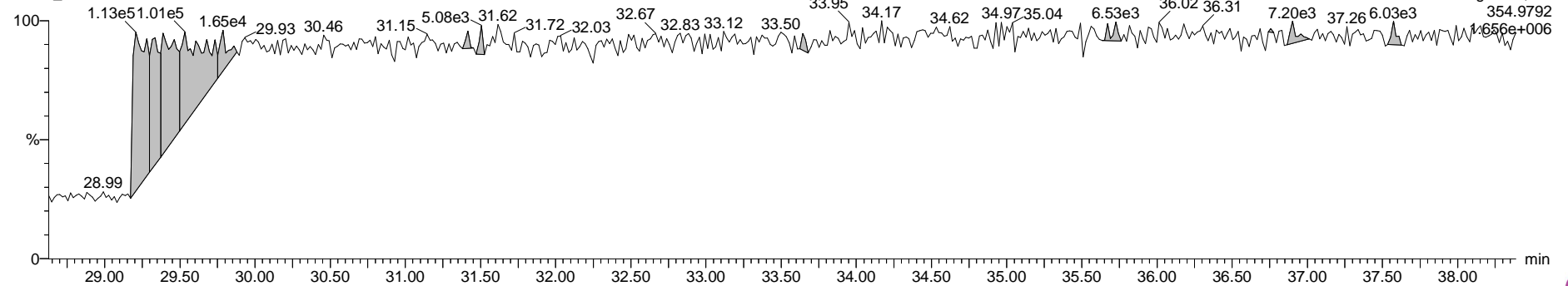
Hepta DPE

DX9M_072S7 Smooth(SG,1x2)



Penta Lock

DX9M_072S7

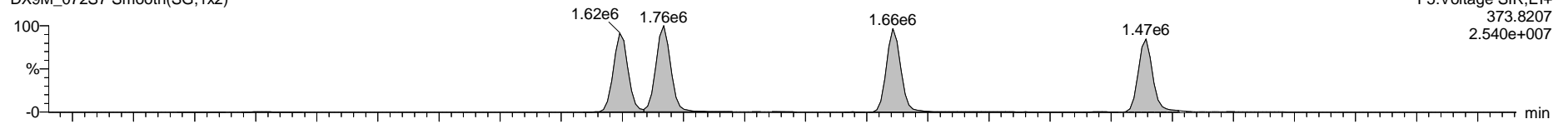


Axys Analytical Services, Ltd.

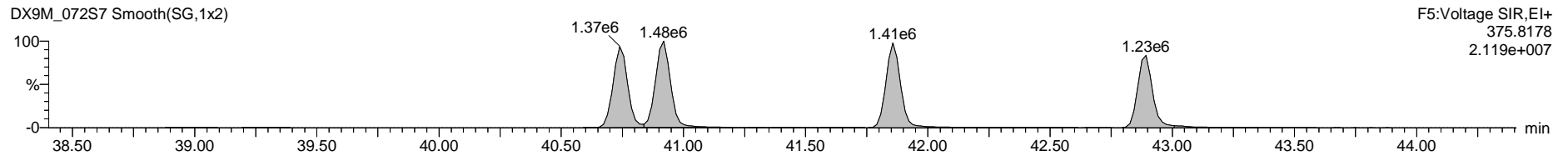
Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

Total Hexa-Furans

DX9M_072S7 Smooth(SG,1x2)

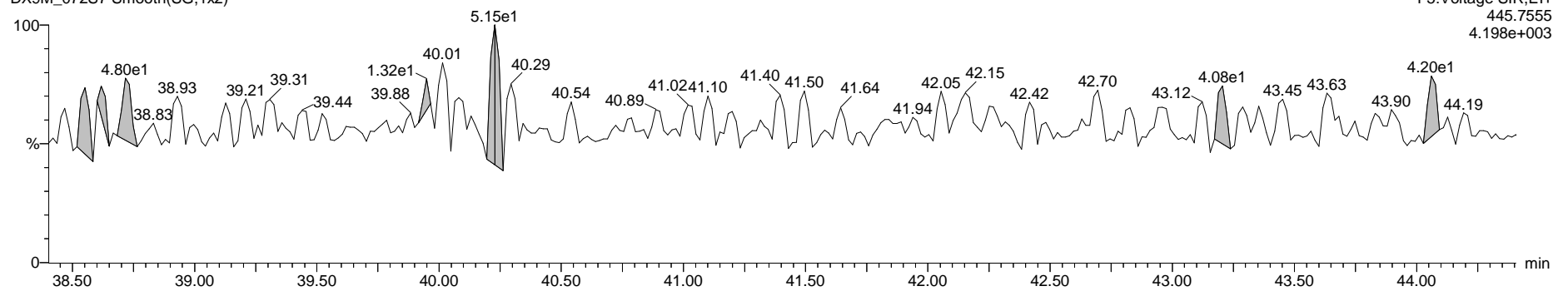


DX9M_072S7 Smooth(SG,1x2)



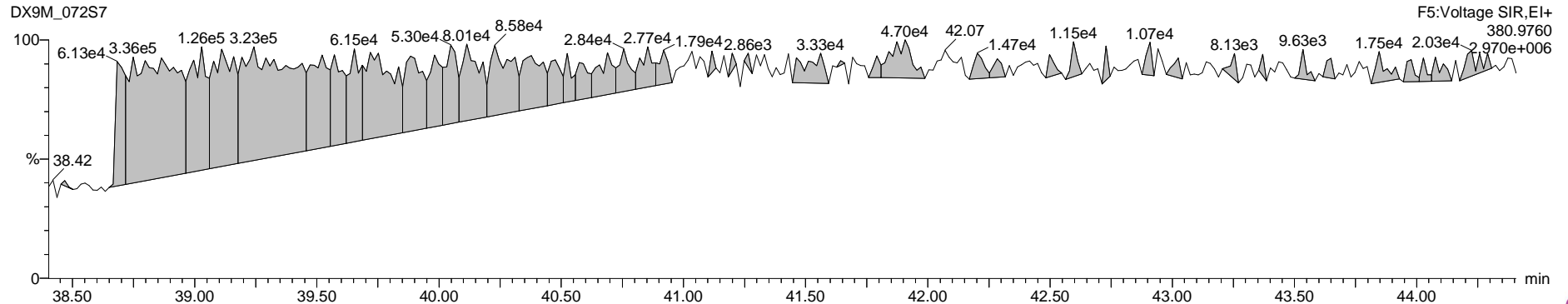
Octa DPE

DX9M_072S7 Smooth(SG,1x2)



Hexa Lock

DX9M_072S7

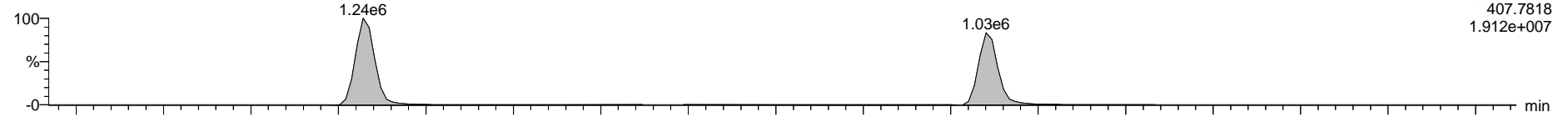


Axys Analytical Services, Ltd.

Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

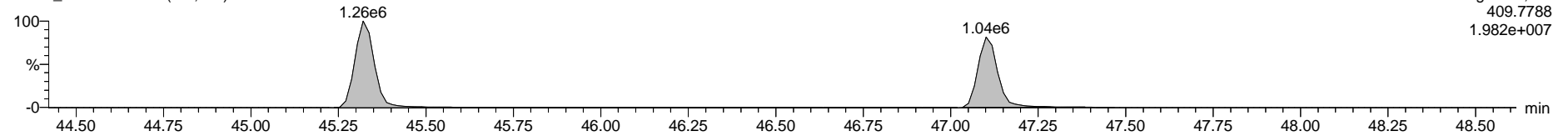
Total Hepta-Furans

DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
1.912e+007

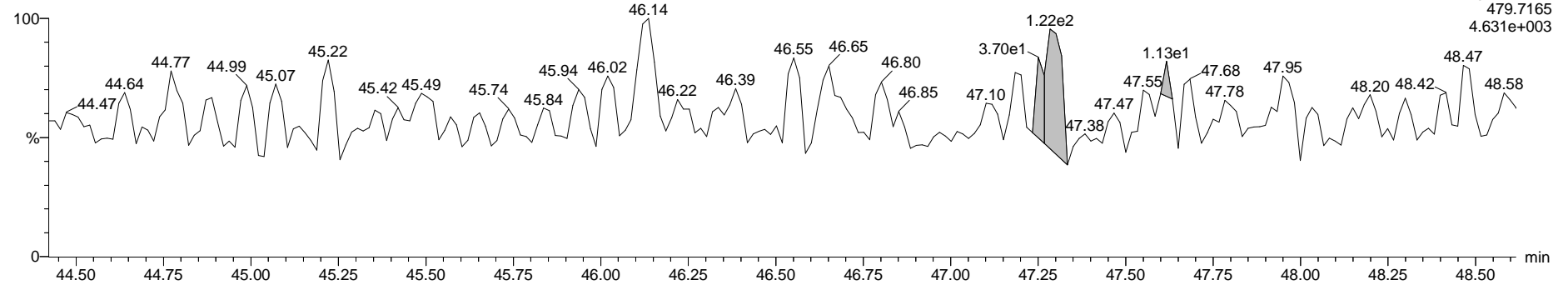
DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
1.982e+007

Nona DPE

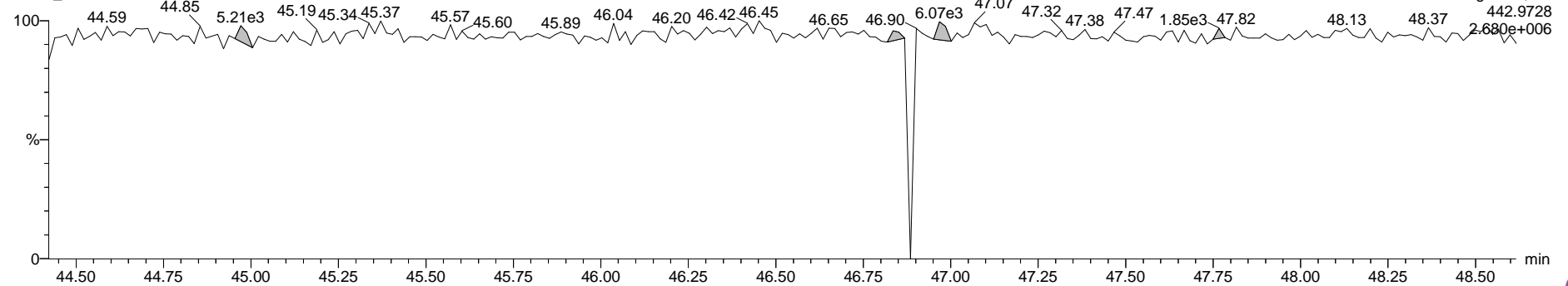
DX9M_072S7 Smooth(SG,1x2)



F6:Voltage SIR,EI+
479.7165
4.631e+003

Hepta Lock

DX9M_072S7



F6:Voltage SIR,EI+
442.9728
2.680e+006

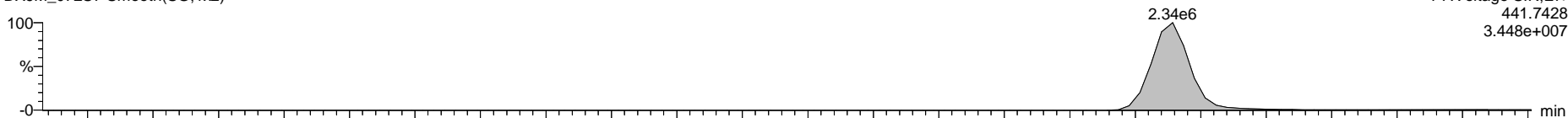


Axys Analytical Services, Ltd.

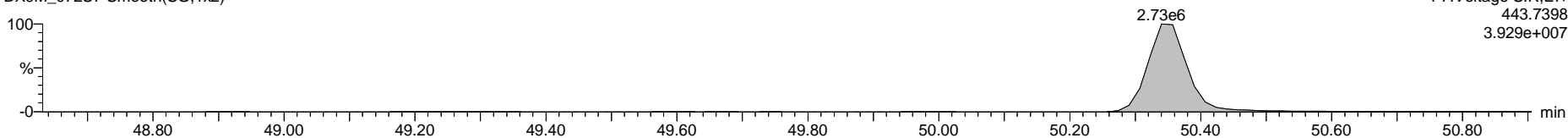
Name: DX9M_072S7, Date: 19-Jun-2009, Time: 15:15:31, ID: DX036E-CAL,,/01, Description: 1,,1.0uL CS-4

OCDF

DX9M_072S7 Smooth(SG,1x2)

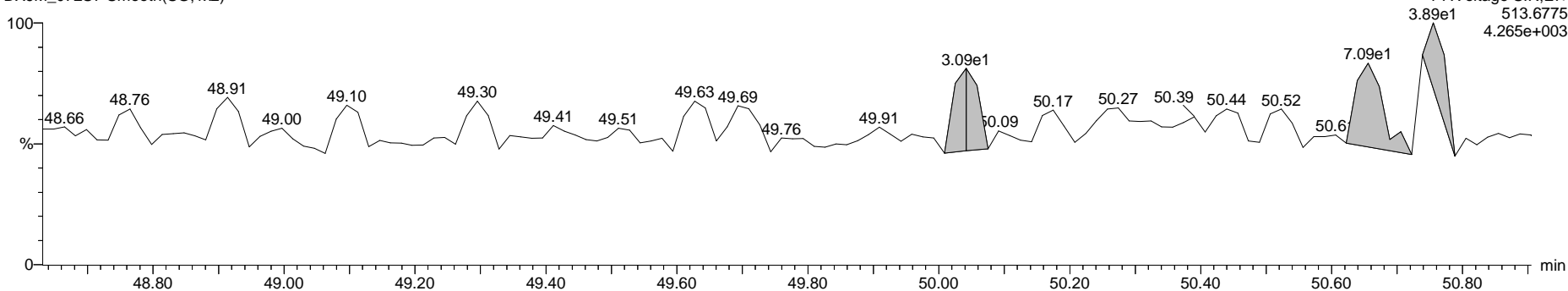


DX9M_072S7 Smooth(SG,1x2)



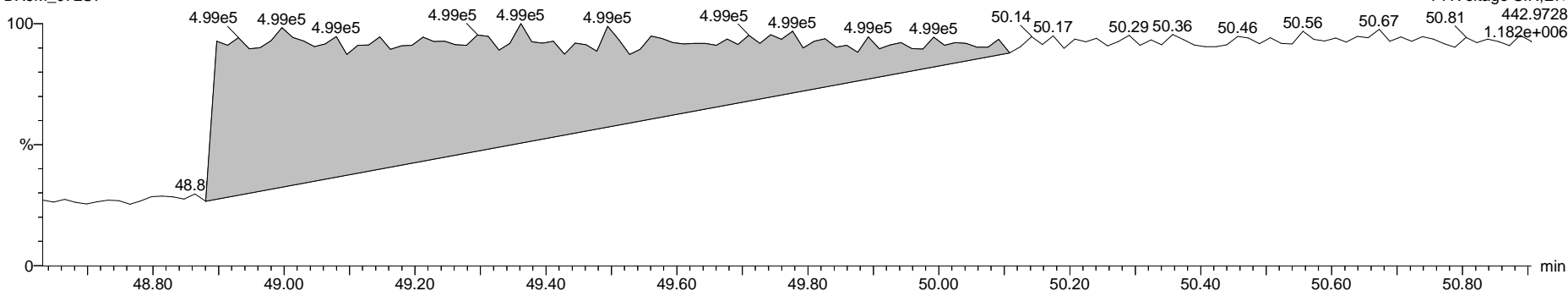
Deca DPE

DX9M_072S7 Smooth(SG,1x2)



Octa Lock

DX9M_072S7



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_072-A.qld

Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

Name	Amount	Resp	Ratio	fails?	RT	RRF	RRF Mean	RRF SD	RRF %Rel SD
1 2,3,7,8-TCDF	214.000	3.77e6	0.74	NO	25.27	0.750	0.7651	0.020	2.60
2 1,2,3,7,8-PeCDF	920.000	1.46e7	1.49	NO	33.64	0.848	0.8337	0.027	3.19
3 2,3,4,7,8-PeCDF	940.000	1.43e7	1.46	NO	35.40	0.853	0.8477	0.012	1.37
4 1,2,3,4,7,8-HxCDF	1000.000	1.23e7	1.20	NO	40.75	0.986	0.9598	0.028	2.96
5 1,2,3,6,7,8-HxCDF	950.000	1.32e7	1.18	NO	40.94	0.937	0.9134	0.025	2.68
6 2,3,4,6,7,8-HxCDF	1060.000	1.27e7	1.21	NO	41.87	0.897	0.8687	0.021	2.42
7 1,2,3,7,8,9-HxCDF	1050.000	1.13e7	1.20	NO	42.91	0.849	0.8083	0.025	3.08
8 1,2,3,4,6,7,8-HpCDF	1000.000	1.08e7	0.96	NO	45.34	1.065	1.0563	0.017	1.65
9 1,2,3,4,7,8,9-HpCDF	1000.000	8.84e6	0.98	NO	47.12	0.955	0.9574	0.023	2.43
10 OCDF	2080.000	2.12e7	0.88	NO	50.37	0.880	0.8587	0.034	4.01
11 2,3,7,8-TCDD	200.000	3.42e6	0.75	NO	26.51	0.916	0.8954	0.028	3.10
12 1,2,3,7,8-PeCDD	1040.000	1.26e7	0.61	NO	36.21	0.891	0.8772	0.011	1.22
13 1,2,3,4,7,8-HxCDD	1130.000	1.20e7	1.22	NO	42.15	0.842	0.8179	0.017	2.12
14 1,2,3,6,7,8-HxCDD	1110.000	1.21e7	1.21	NO	42.28	0.775	0.7585	0.014	1.89
15 1,2,3,7,8,9-HxCDD	1080.000	1.16e7	1.20	NO	42.71	0.803	0.7714	0.028	3.69
16 1,2,3,4,6,7,8-HpCDD	950.000	9.79e6	1.02	NO	46.72	0.964	0.9637	0.013	1.31
17 OCDD	2000.000	2.17e7	0.87	NO	50.31	0.936	0.9273	0.011	1.19
18 13C-2,3,7,8-TCDF	100.000	2.35e6	0.76	NO	25.26	1.482	1.4191	0.044	3.09
19 13C-1,2,3,7,8-PeCDF	100.000	1.87e6	1.55	NO	33.61	1.179	0.9902	0.116	11.71
20 13C-2,3,4,7,8-PeCDF	100.000	1.79e6	1.52	NO	35.38	1.126	0.9637	0.104	10.81
21 13C-1,2,3,4,7,8-HxCDF	100.000	1.25e6	0.50	NO	40.74	0.988	1.0195	0.018	1.80
22 13C-1,2,3,6,7,8-HxCDF	100.000	1.48e6	0.51	NO	40.92	1.173	1.1864	0.072	6.09
23 13C-2,3,4,6,7,8-HxCDF	100.000	1.33e6	0.50	NO	41.86	1.053	1.0883	0.024	2.17
24 13C-1,2,3,7,8,9-HxCDF	100.000	1.27e6	0.52	NO	42.89	1.001	1.0157	0.013	1.28
25 13C-1,2,3,4,6,7,8-HpCDF	100.000	1.01e6	0.44	NO	45.32	0.800	0.8166	0.038	4.60
26 13C-1,2,3,4,7,8,9-HpCDF	100.000	9.26e5	0.44	NO	47.10	0.733	0.7522	0.034	4.52
27 13C-2,3,7,8-TCDD	100.000	1.87e6	0.78	NO	26.48	1.178	1.0907	0.056	5.15
28 13C-1,2,3,7,8-PeCDD	100.000	1.36e6	0.63	NO	36.20	0.859	0.7058	0.095	13.51
29 13C-1,2,3,4,7,8-HxCDD	100.000	1.26e6	1.26	NO	42.14	0.994	0.9752	0.018	1.89
30 13C-1,2,3,6,7,8-HxCDD	100.000	1.41e6	1.25	NO	42.27	1.113	1.1388	0.022	1.97
31 13C-1,2,3,4,6,7,8-HpCDD	100.000	1.07e6	1.03	NO	46.70	0.845	0.8543	0.055	6.40
32 13C-OCDD	200.000	2.31e6	0.88	NO	50.29	0.915	0.9704	0.068	6.98
33 13C-1,2,3,4-TCDD	100.000	1.59e6	0.79	NO	26.15	15858.9...	17709.6245	3308.886	18.68
34 13C-1,2,3,7,8,9-HxCDD	100.000	1.26e6	1.25	NO	42.69	12643.7...	11256.8637	2809.862	24.96
35 37Cl-2,3,7,8-TCDD	200.000	4.08e6			26.50	1.286	1.1915	0.058	4.87
36 Total Tetra-Furans	218.800						0.7651	0.020	2.60
37 Total Tetra-Dioxins	211.800						0.8954	0.028	3.10
38 Total Penta-Furans	1000.000						0.8337	0.027	3.19
39 Total Penta-Dioxins	1131.000						0.8772	0.011	1.22
40 Total Hexa-Furans	1000.000						0.9598	0.028	2.96
41 Total Hexa-Dioxins	1000.000						0.8179	0.017	2.12
42 Total Hepta-Furans	1000.000						1.0563	0.017	1.65
43 Total Hepta-Dioxins	1000.000						0.9637	0.013	1.31
44 Hexa DPE	0.000	1.09e2			22.08	0.000			
45 Hepta DPE	0.000	1.07e4			37.59	0.000			
46 Octa DPE	0.000	8.85e1			43.07	0.000			
47 Nona DPE	0.000	1.72e2			45.85	0.000			
48 Deca DPE	0.000	2.23e2			50.31	0.000			
49 Tetra Lock	0.000	2.47e4			26.45	0.000			
50 Penta Lock	0.000	2.55e5			29.73	0.000			
51 Hexa Lock	0.000	1.23e5			38.85	0.000			
52 Hepta Lock	0.000	1.38e4			46.72	0.000			
53 Octa Lock	0.000	4.69e5			49.10	0.000			

PV WL 22-JUN-2009



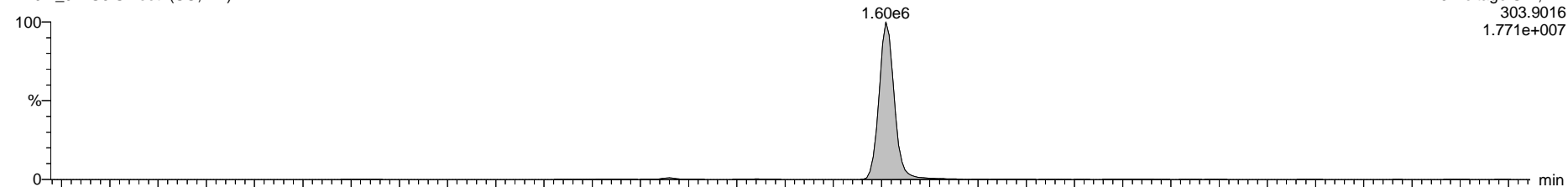
Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-A.cdb 22 Jun 2009 09:42:41

Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

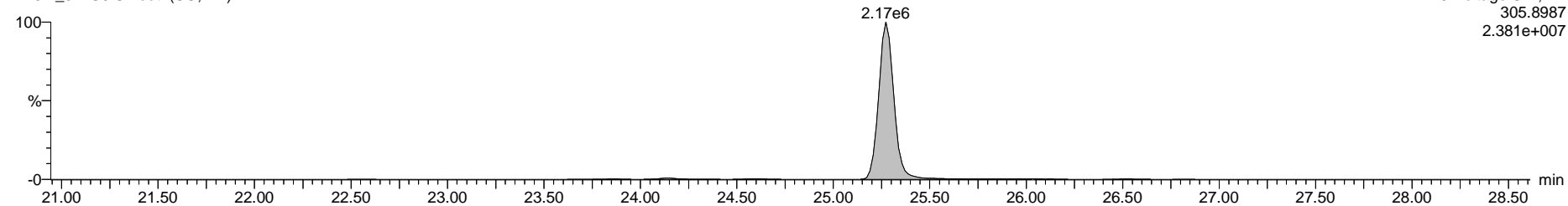
Total Tetra-Furans

DX9M_072S6 Smooth(SG,1x2)



F3:Voltage SIR,EI+
303.9016
1.771e+007

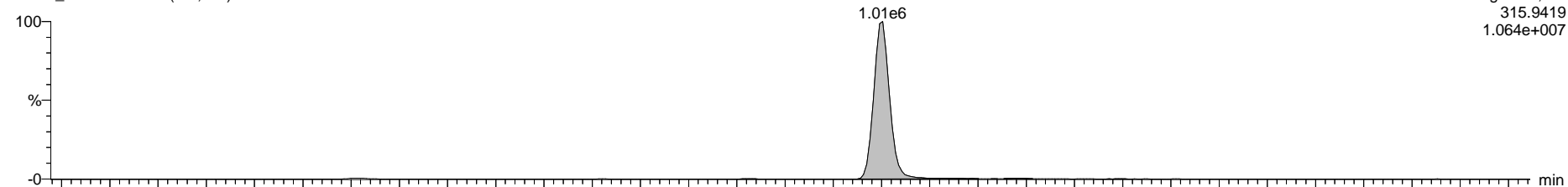
DX9M_072S6 Smooth(SG,1x2)



F3:Voltage SIR,EI+
305.8987
2.381e+007

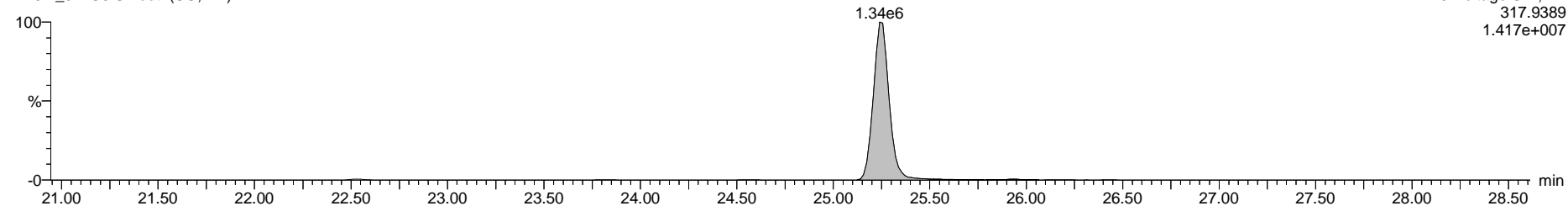
13C-2,3,7,8-TCDF

DX9M_072S6 Smooth(SG,1x2)



F3:Voltage SIR,EI+
315.9419
1.064e+007

DX9M_072S6 Smooth(SG,1x2)



F3:Voltage SIR,EI+
317.9389
1.417e+007

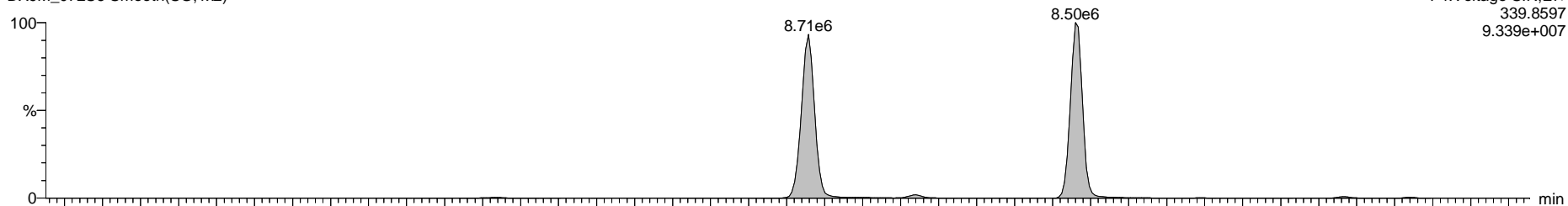


Axys Analytical Services, Ltd.

Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

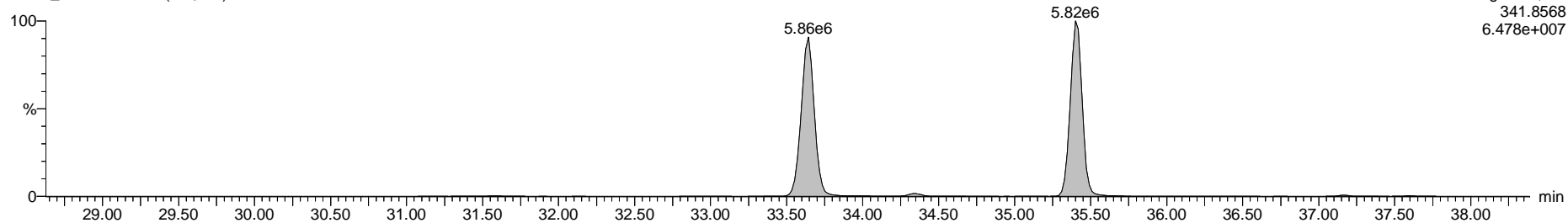
Total Penta-Furans

DX9M_072S6 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
9.339e+007

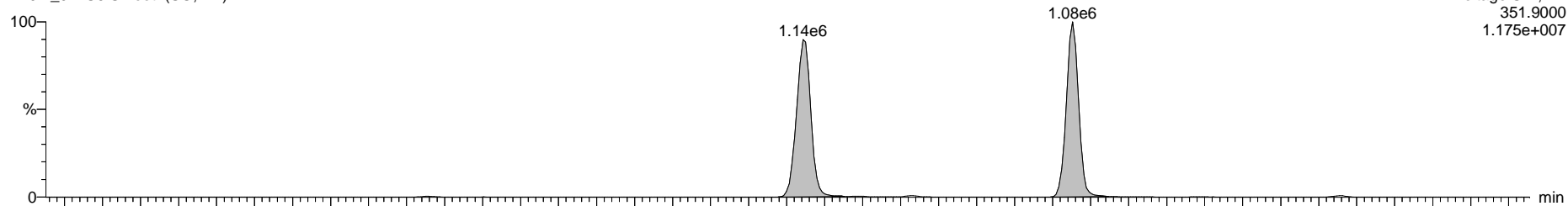
DX9M_072S6 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
6.478e+007

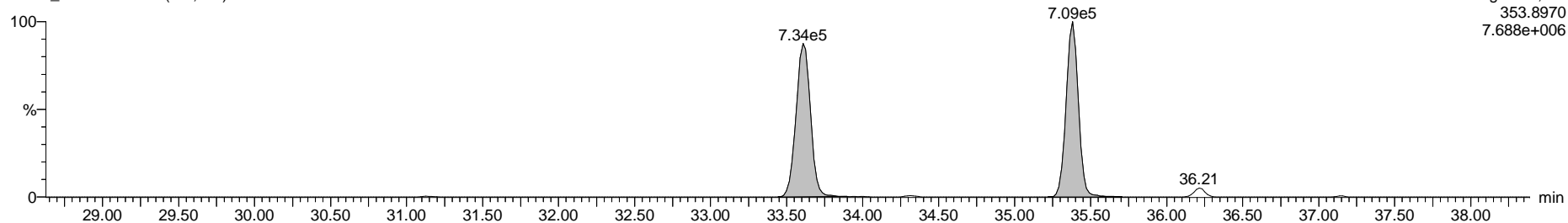
13C-1,2,3,7,8-PeCDF

DX9M_072S6 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
1.175e+007

DX9M_072S6 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8970
7.688e+006

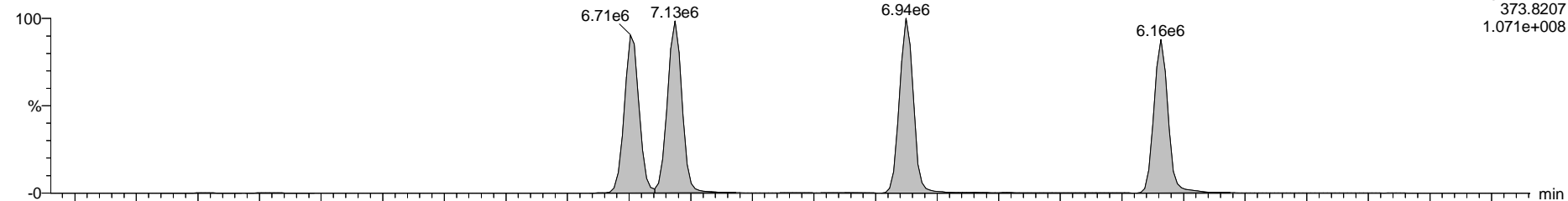


Axys Analytical Services, Ltd.

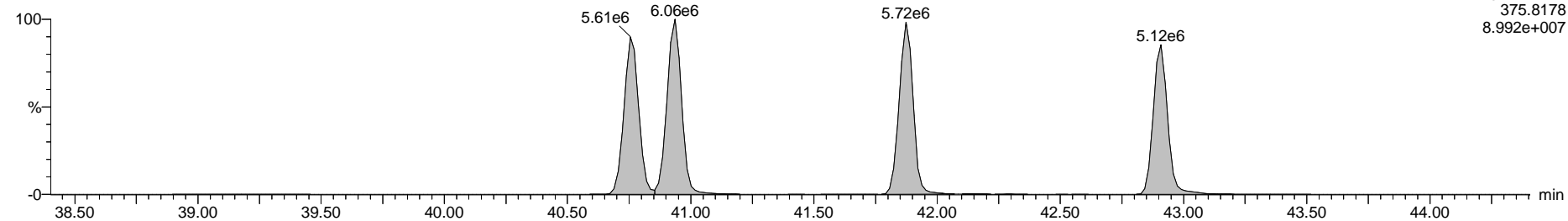
Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

Total Hexa-Furans

DX9M_072S6 Smooth(SG,1x2)

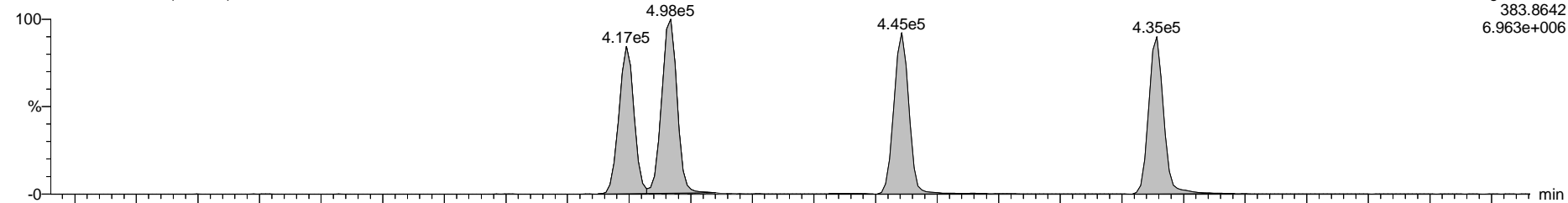


DX9M_072S6 Smooth(SG,1x2)

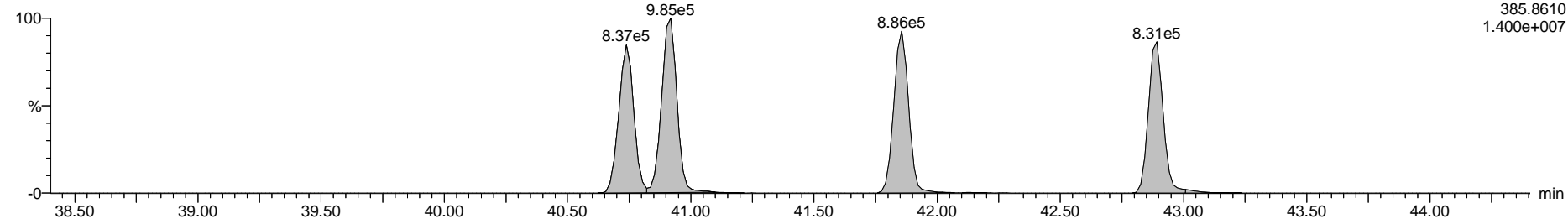


13C-1,2,3,4,7,8-HxCDF

DX9M_072S6 Smooth(SG,1x2)



DX9M_072S6 Smooth(SG,1x2)

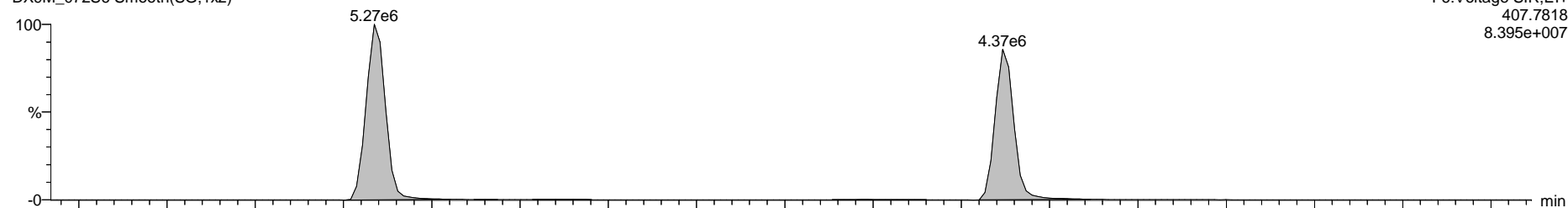


Axys Analytical Services, Ltd.

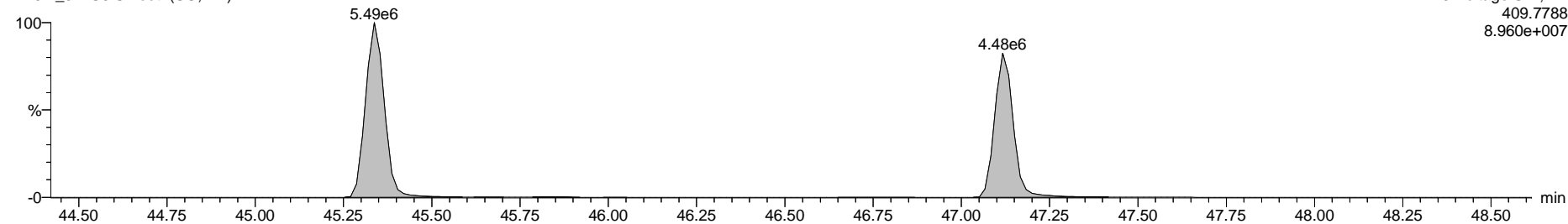
Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

Total Hepta-Furans

DX9M_072S6 Smooth(SG,1x2)

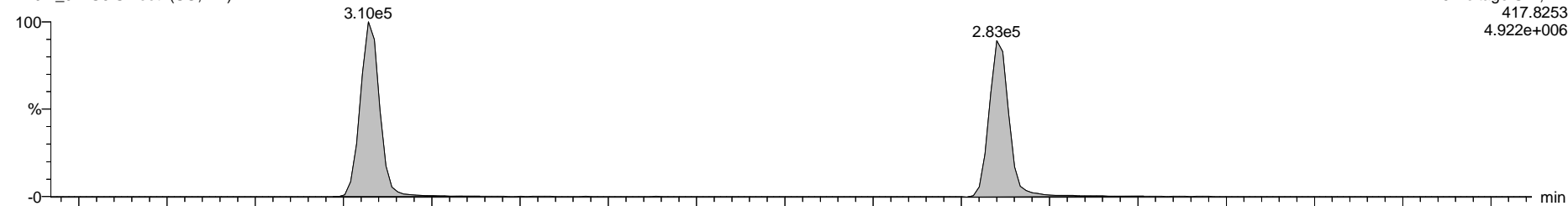


DX9M_072S6 Smooth(SG,1x2)

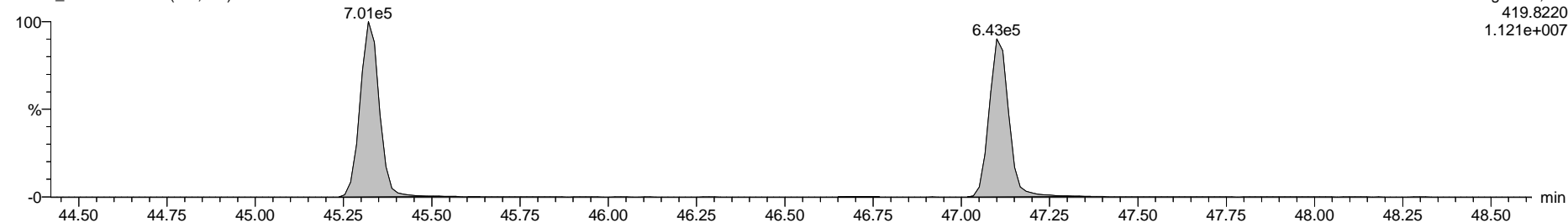


13C-1,2,3,4,6,7,8-HpCDF

DX9M_072S6 Smooth(SG,1x2)



DX9M_072S6 Smooth(SG,1x2)

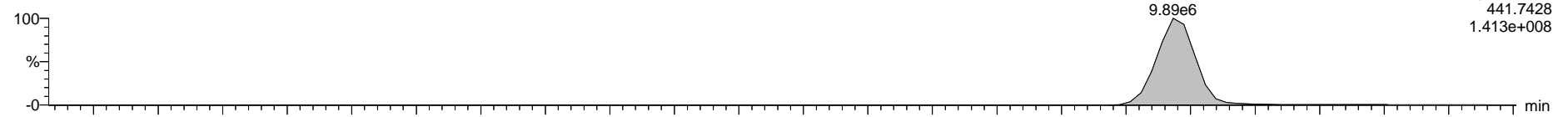


Axys Analytical Services, Ltd.

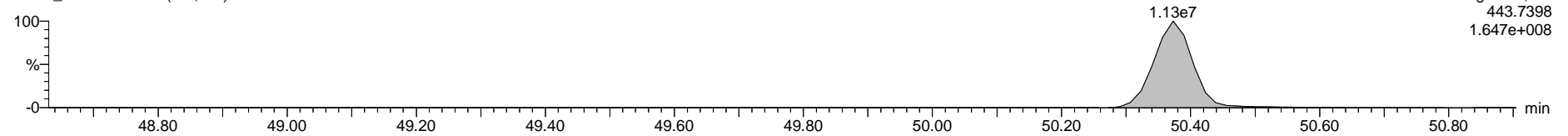
Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

OCDF

DX9M_072S6 Smooth(SG,1x2)

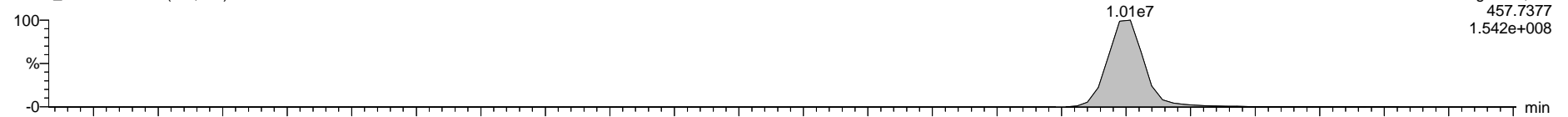


DX9M_072S6 Smooth(SG,1x2)

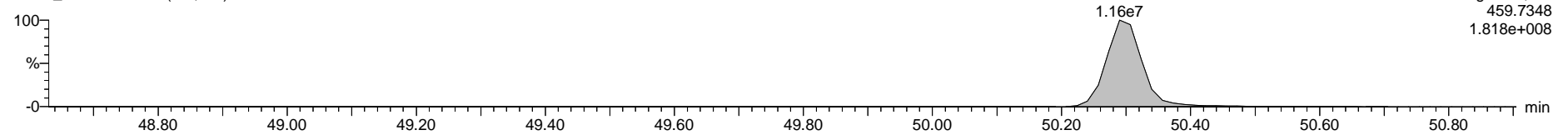


OCDD

DX9M_072S6 Smooth(SG,1x2)

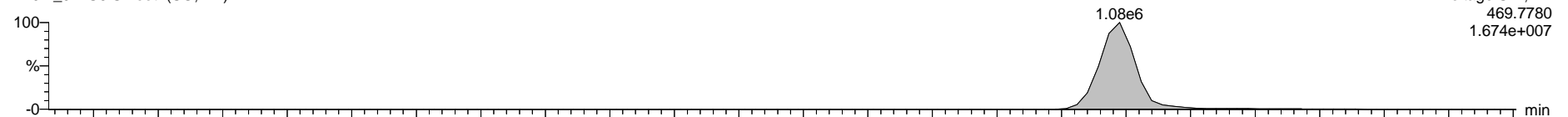


DX9M_072S6 Smooth(SG,1x2)

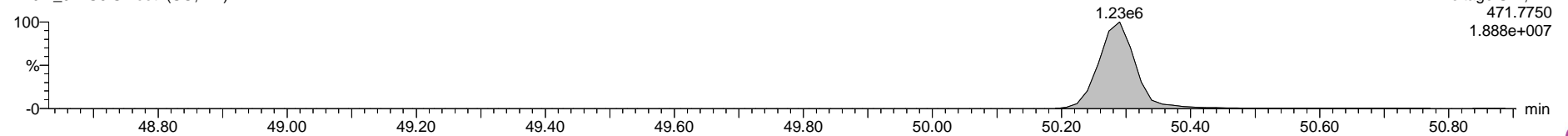


13C-OCDD

DX9M_072S6 Smooth(SG,1x2)



DX9M_072S6 Smooth(SG,1x2)

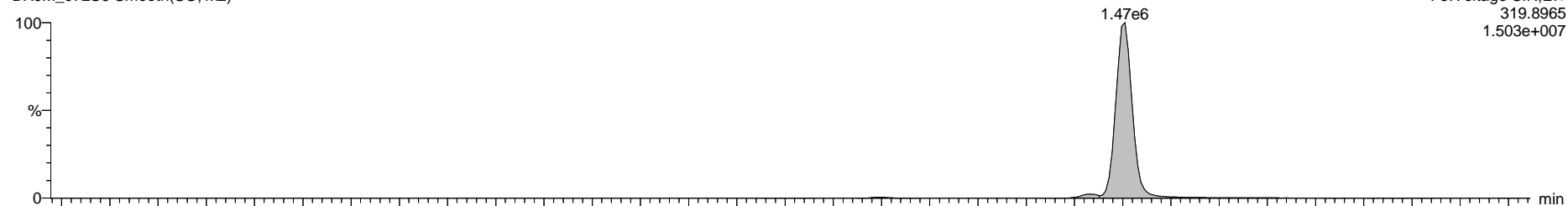


Axys Analytical Services, Ltd.

Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

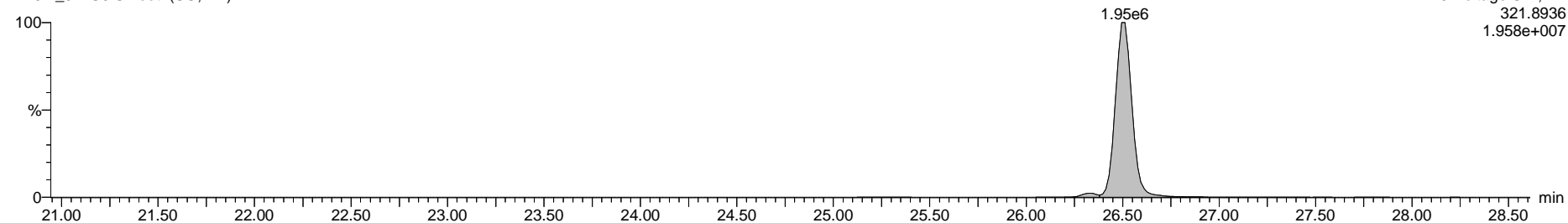
Total Tetra-Dioxins

DX9M_072S6 Smooth(SG,1x2)



F3:Voltage SIR,EI+
319.8965
1.503e+007

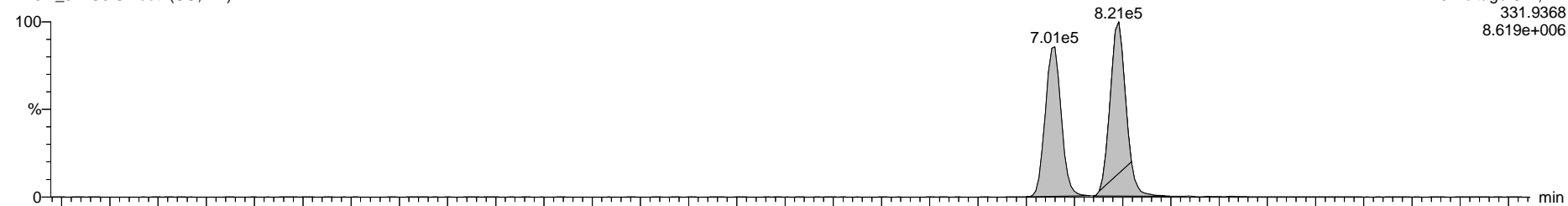
DX9M_072S6 Smooth(SG,1x2)



F3:Voltage SIR,EI+
321.8936
1.958e+007

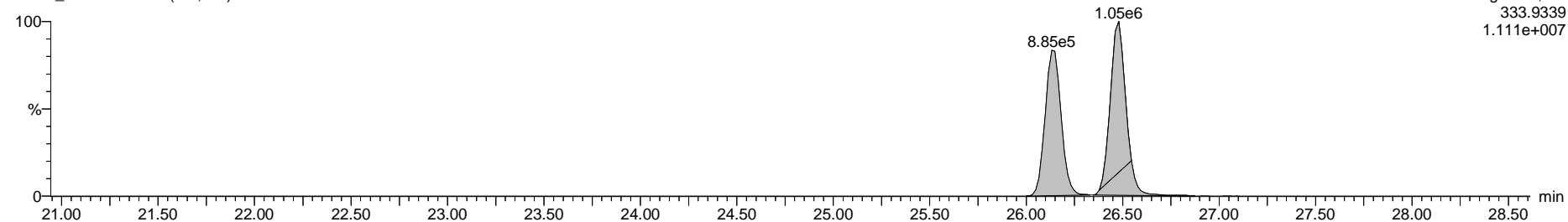
13C-2,3,7,8-TCDD

DX9M_072S6 Smooth(SG,1x2)



F3:Voltage SIR,EI+
331.9368
8.619e+006

DX9M_072S6 Smooth(SG,1x2)



F3:Voltage SIR,EI+
333.9339
1.111e+007

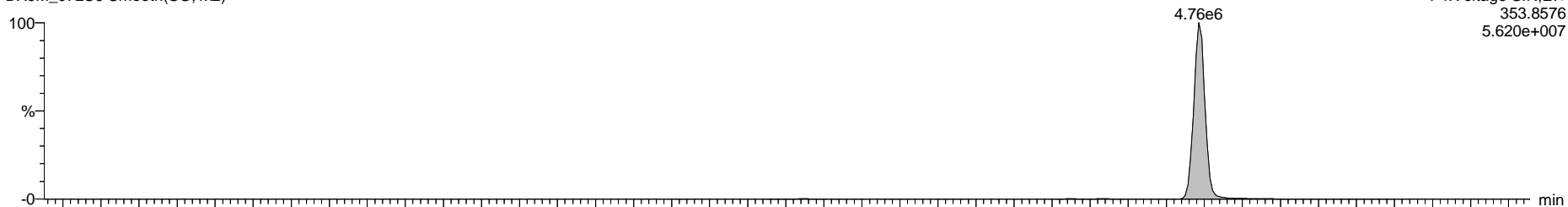


Axys Analytical Services, Ltd.

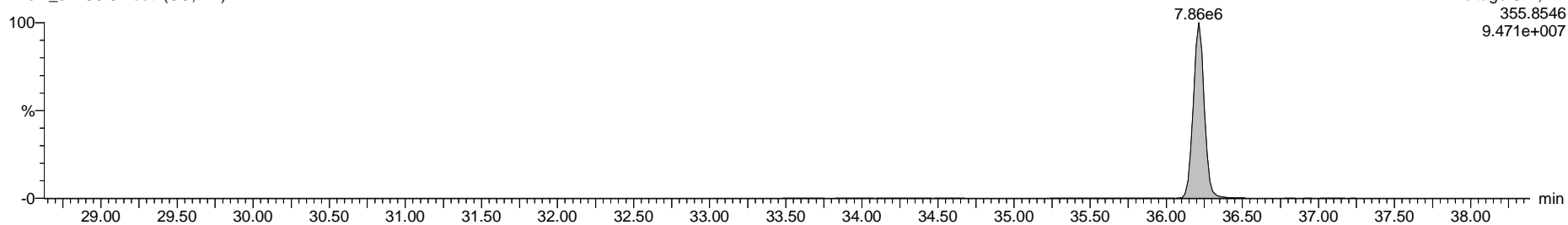
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Total Penta-Dioxins

DX9M_072S6 Smooth(SG,1x2)

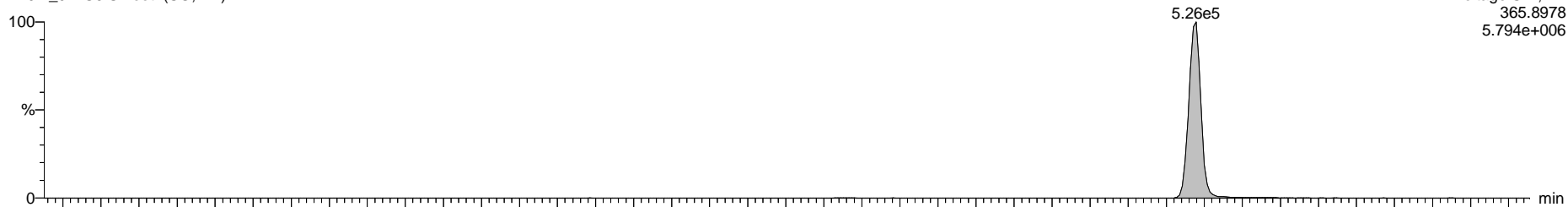


DX9M_072S6 Smooth(SG,1x2)

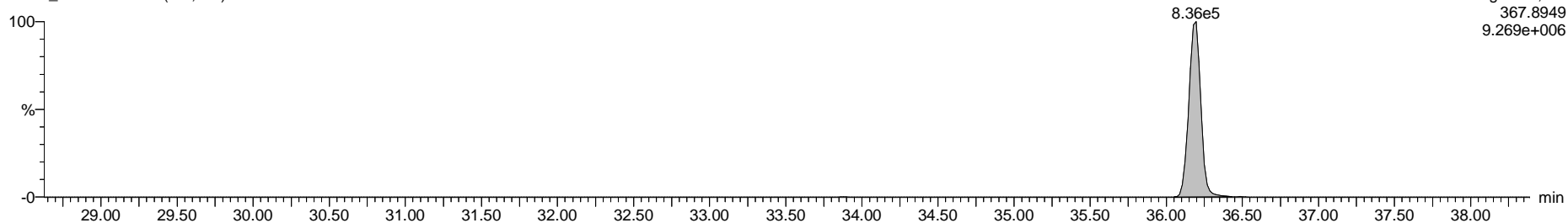


13C-1,2,3,7,8-PeCDD

DX9M_072S6 Smooth(SG,1x2)



DX9M_072S6 Smooth(SG,1x2)

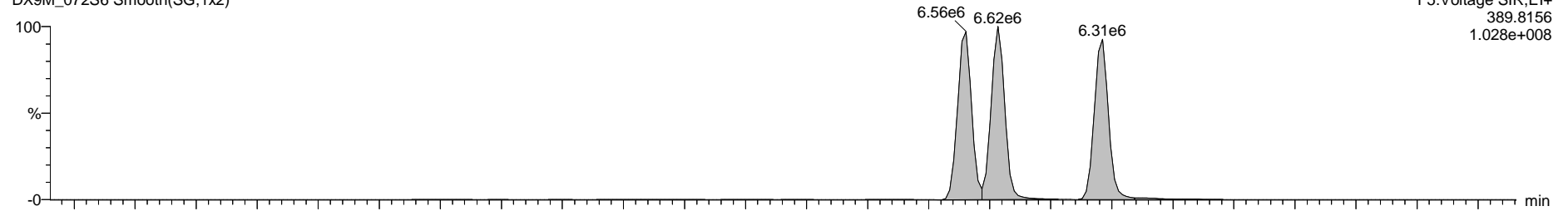


Axys Analytical Services, Ltd.

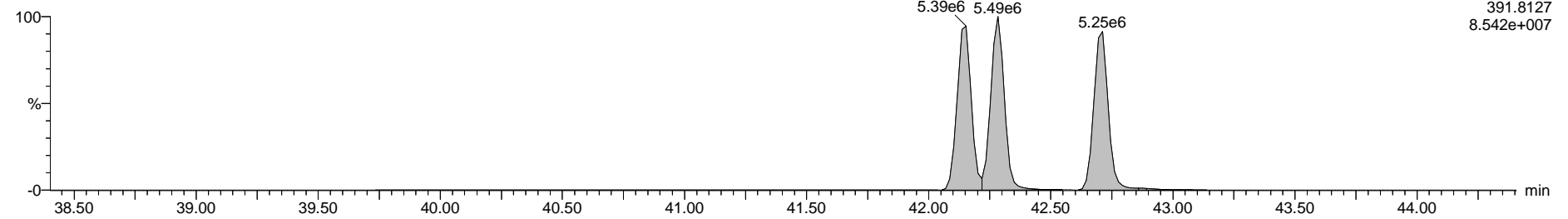
Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

Total Hexa-Dioxins

DX9M_072S6 Smooth(SG,1x2)

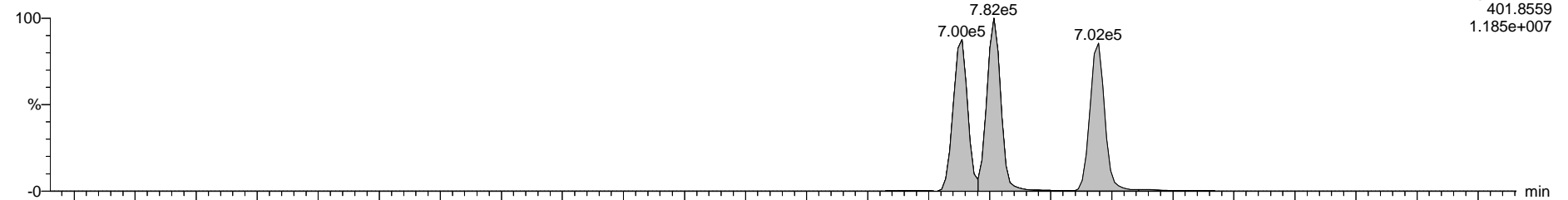


DX9M_072S6 Smooth(SG,1x2)

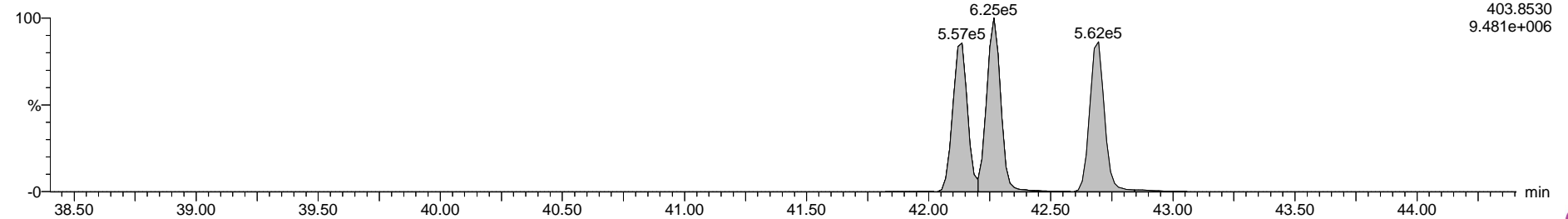


13C-1,2,3,4,7,8-HxCDD

DX9M_072S6 Smooth(SG,1x2)



DX9M_072S6 Smooth(SG,1x2)

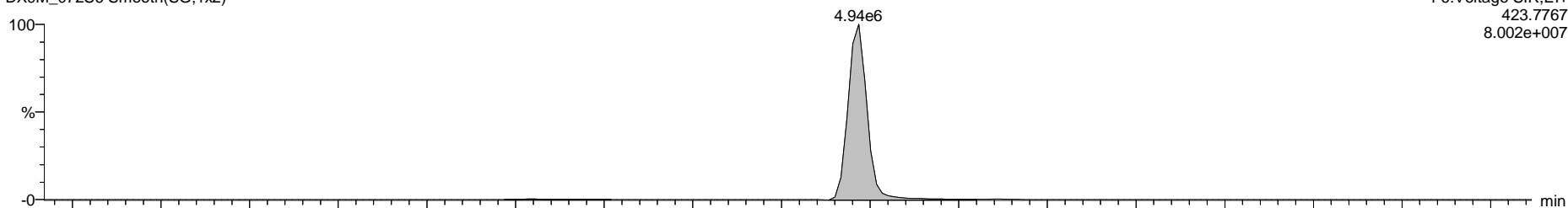


Axys Analytical Services, Ltd.

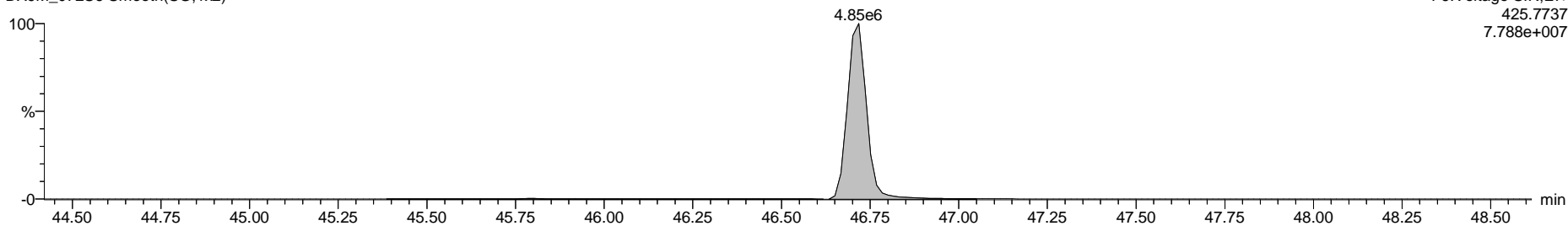
Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

Total Hepta-Dioxins

DX9M_072S6 Smooth(SG,1x2)

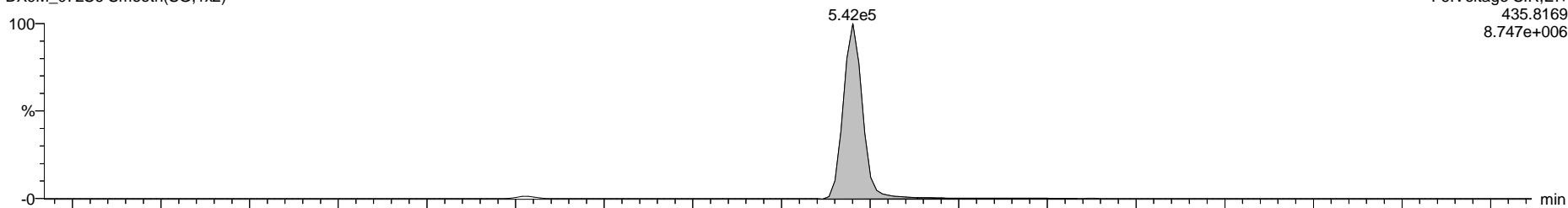


DX9M_072S6 Smooth(SG,1x2)

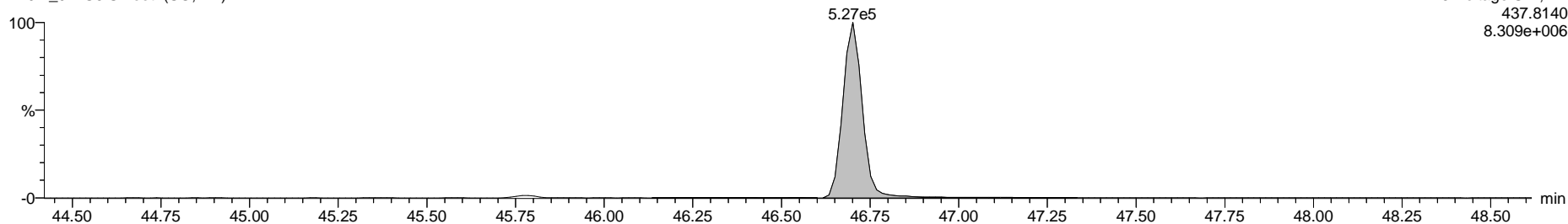


13C-1,2,3,4,6,7,8-HpCDD

DX9M_072S6 Smooth(SG,1x2)



DX9M_072S6 Smooth(SG,1x2)

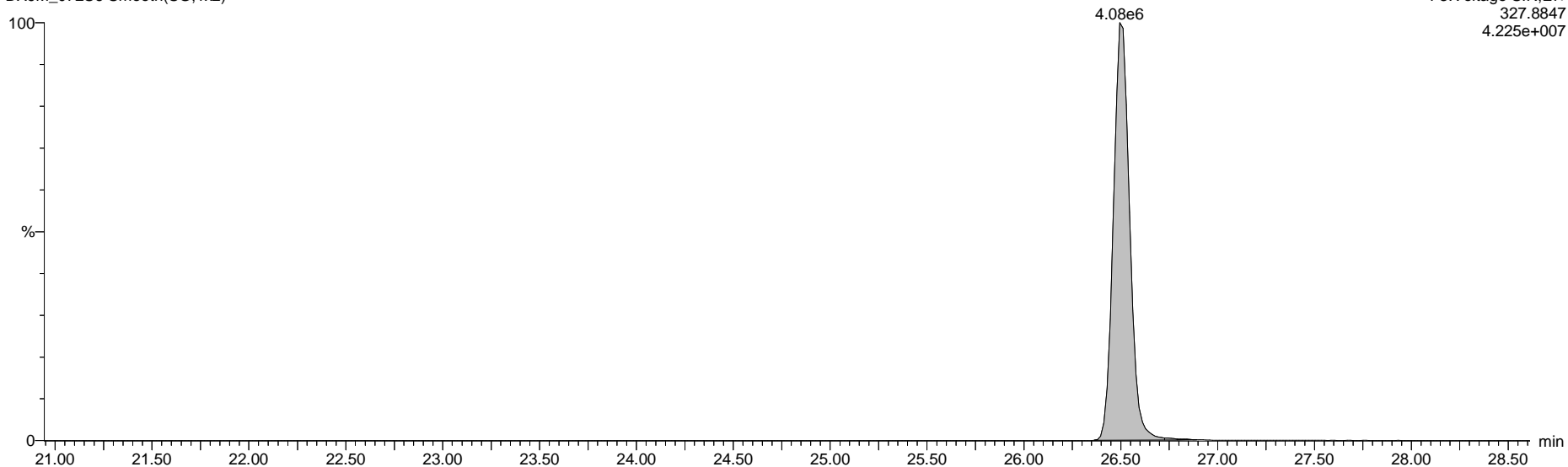


Axys Analytical Services, Ltd.

Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

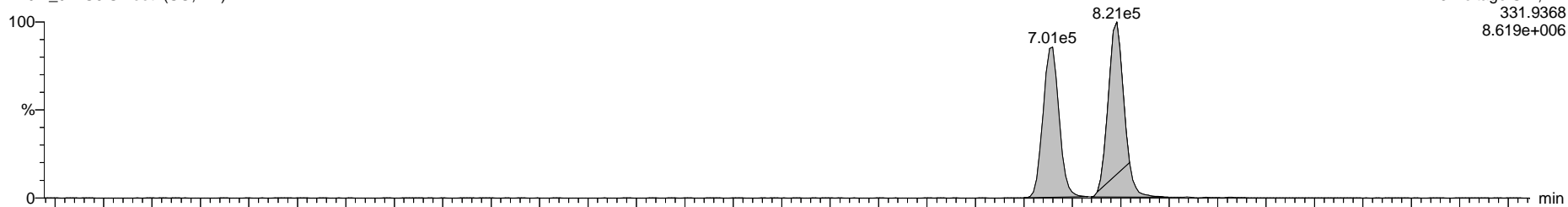
37Cl-2,3,7,8-TCDD

DX9M_072S6 Smooth(SG,1x2)

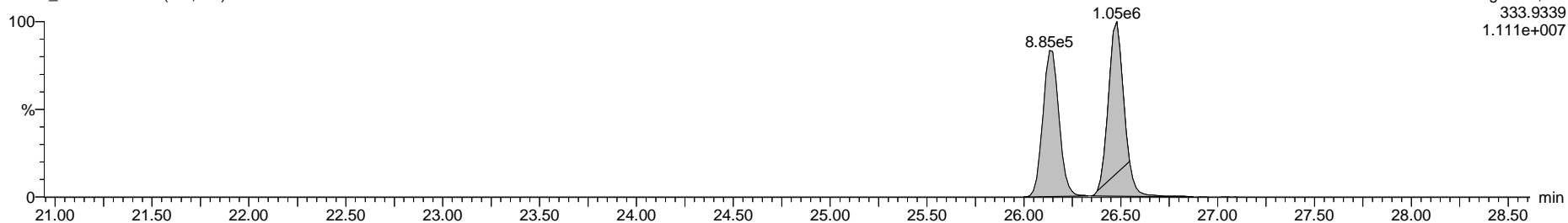


13C-1,2,3,4-TCDD

DX9M_072S6 Smooth(SG,1x2)



DX9M_072S6 Smooth(SG,1x2)

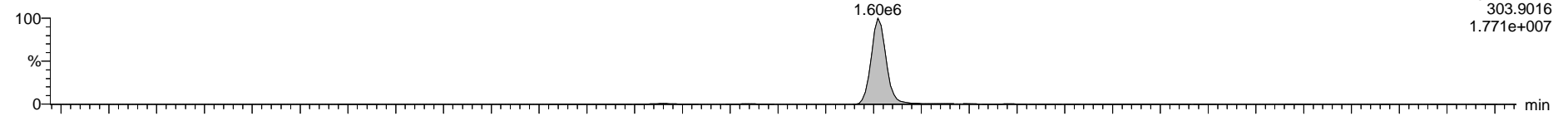


Axys Analytical Services, Ltd.

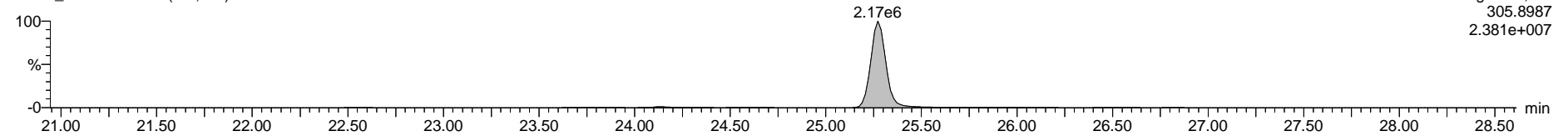
Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

Total Tetra-Furans

DX9M_072S6 Smooth(SG,1x2)

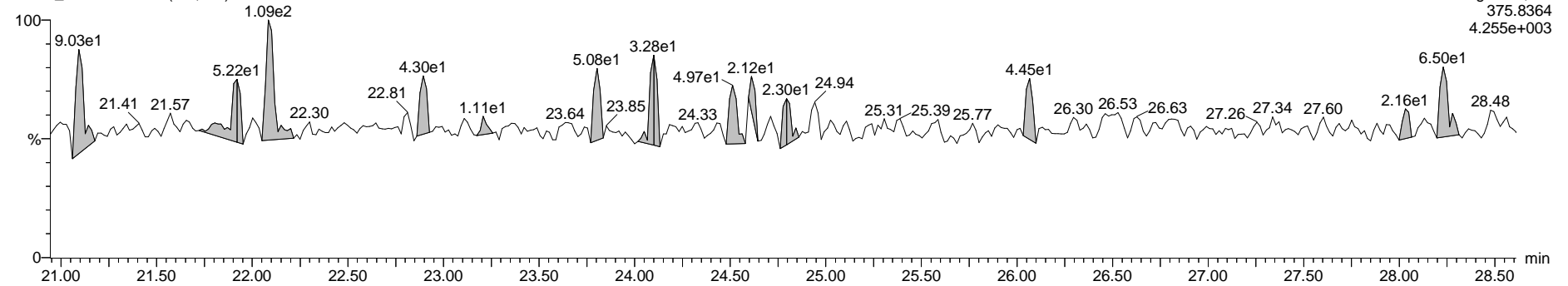


DX9M_072S6 Smooth(SG,1x2)



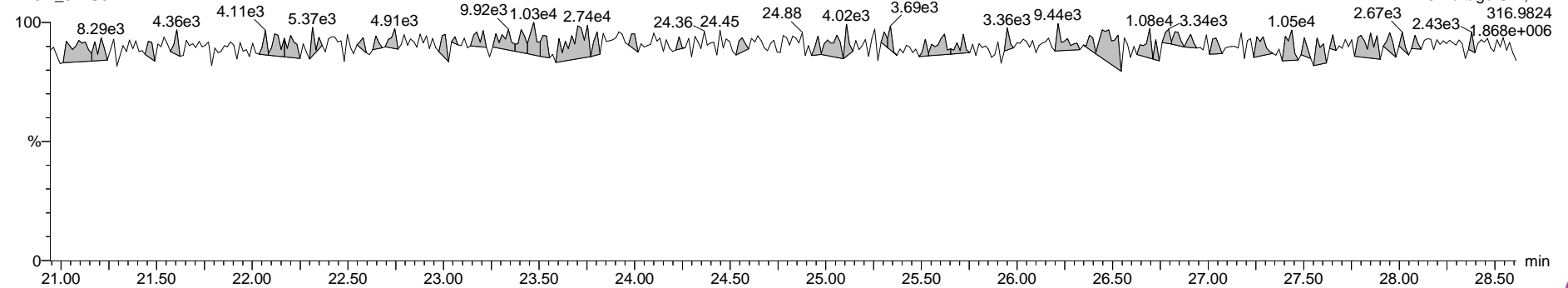
Hexa DPE

DX9M_072S6 Smooth(SG,1x2)



Tetra Lock

DX9M_072S6

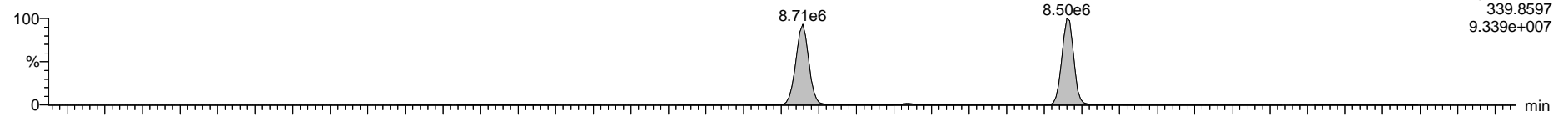


Axys Analytical Services, Ltd.

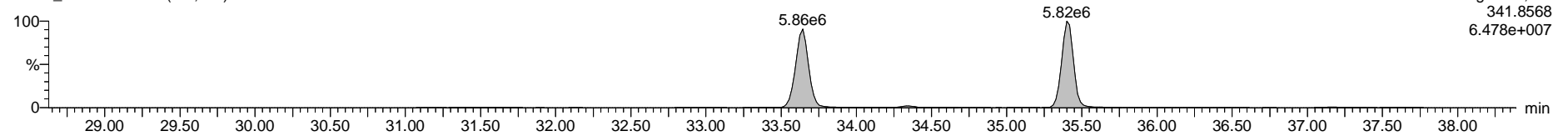
Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

Total Penta-Furans

DX9M_072S6 Smooth(SG,1x2)

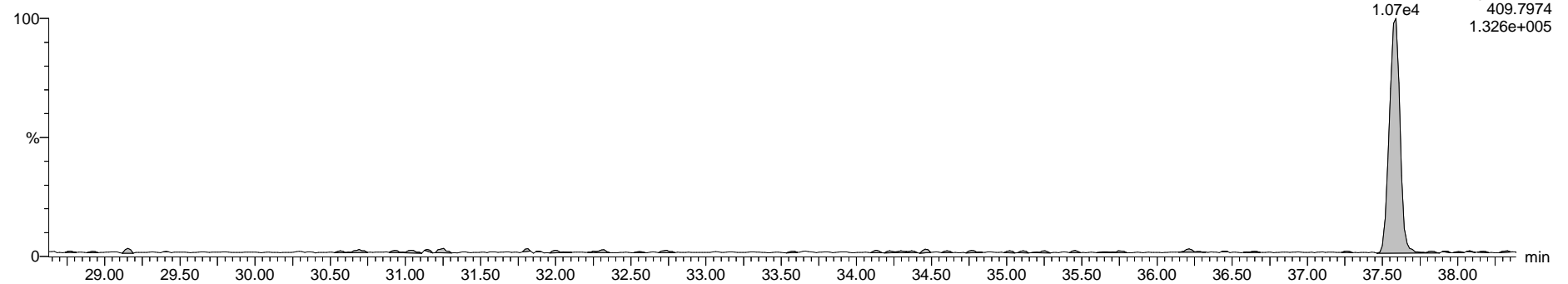


DX9M_072S6 Smooth(SG,1x2)



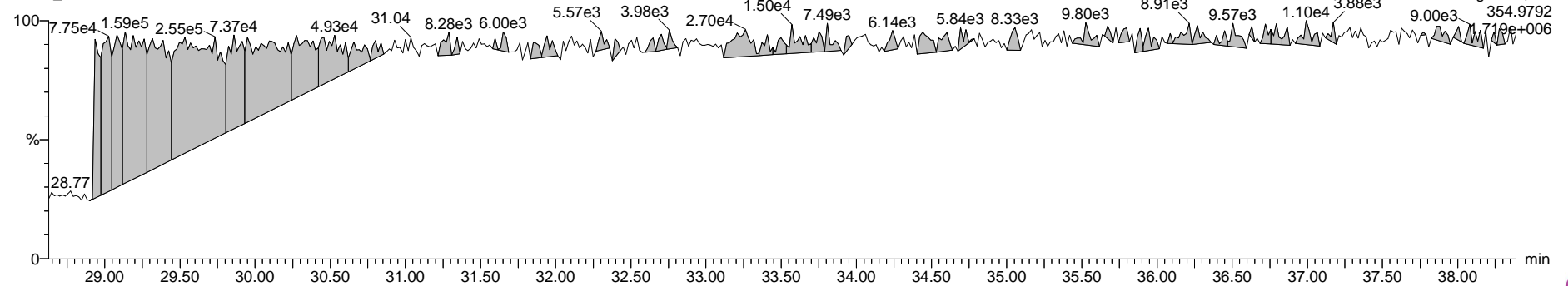
Hepta DPE

DX9M_072S6 Smooth(SG,1x2)



Penta Lock

DX9M_072S6

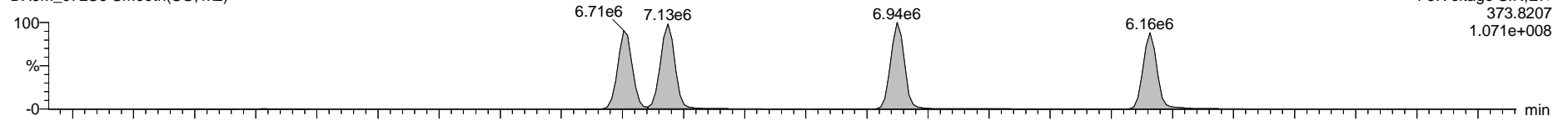


Axys Analytical Services, Ltd.

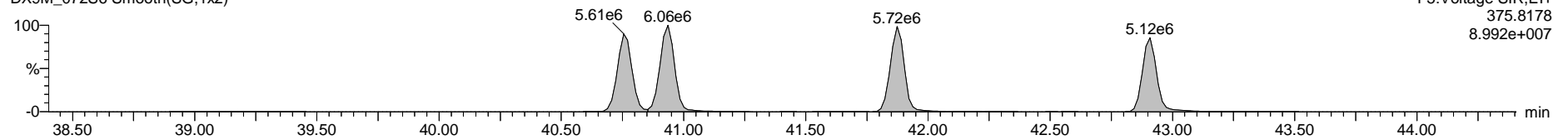
Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

Total Hexa-Furans

DX9M_072S6 Smooth(SG,1x2)

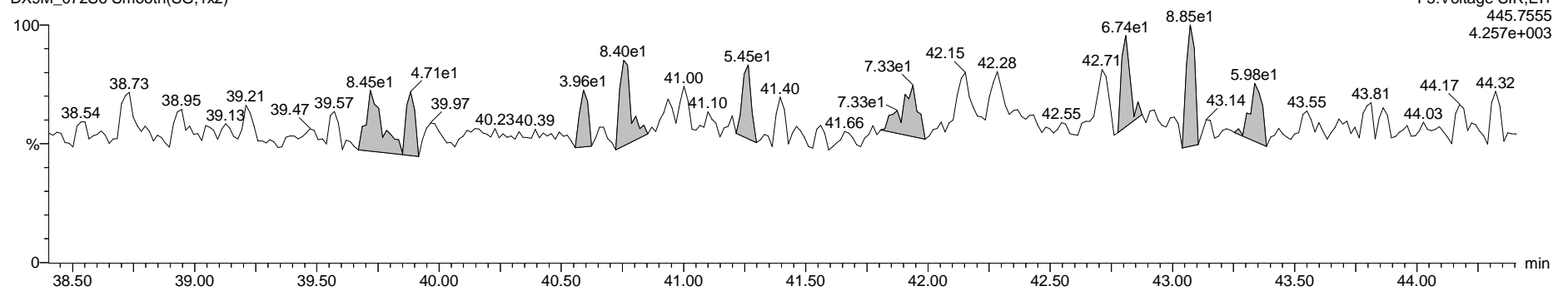


DX9M_072S6 Smooth(SG,1x2)



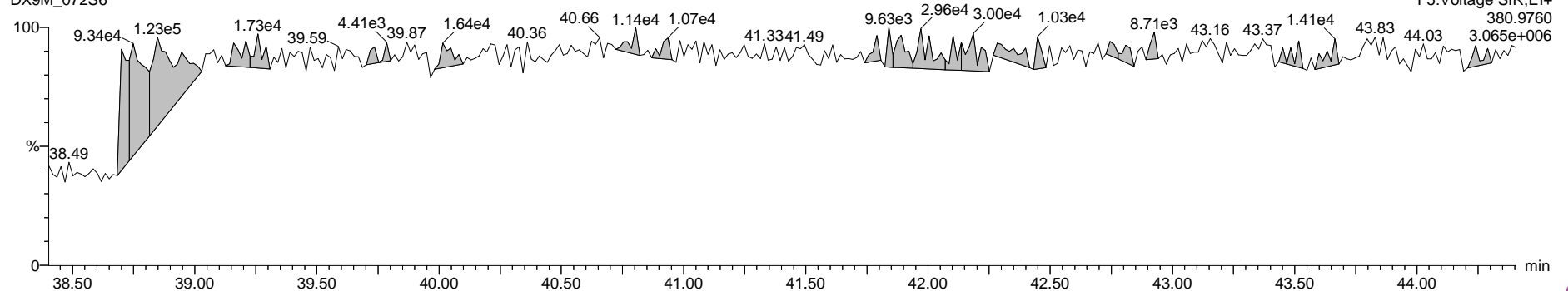
Octa DPE

DX9M_072S6 Smooth(SG,1x2)



Hexa Lock

DX9M_072S6

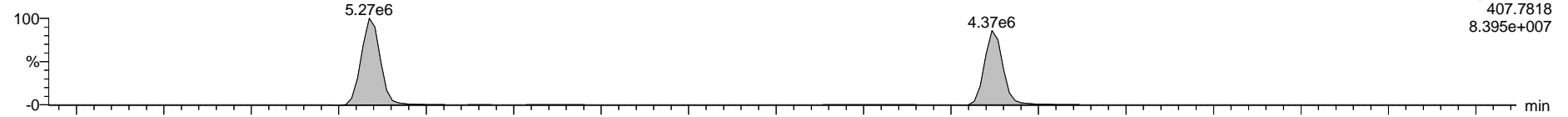


Axys Analytical Services, Ltd.

Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

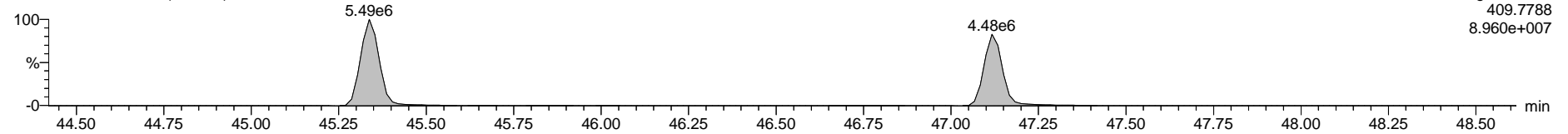
Total Hepta-Furans

DX9M_072S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
8.395e+007

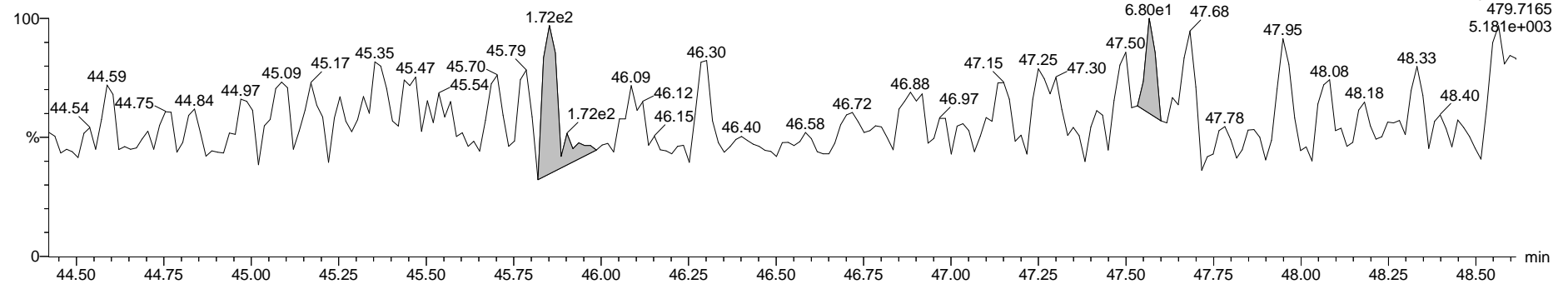
DX9M_072S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
8.960e+007

Nona DPE

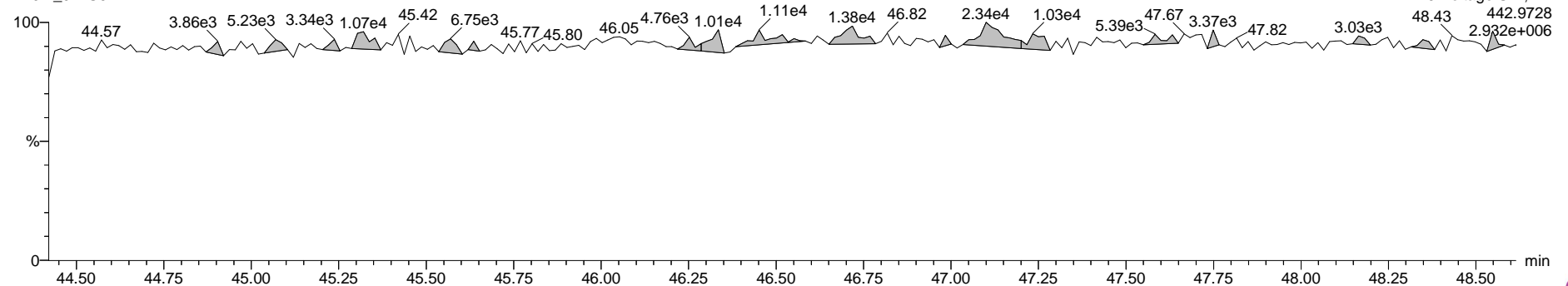
DX9M_072S6 Smooth(SG,1x2)



F6:Voltage SIR,EI+
479.7165
5.181e+003

Hepta Lock

DX9M_072S6



F6:Voltage SIR,EI+
442.9728
2.932e+006

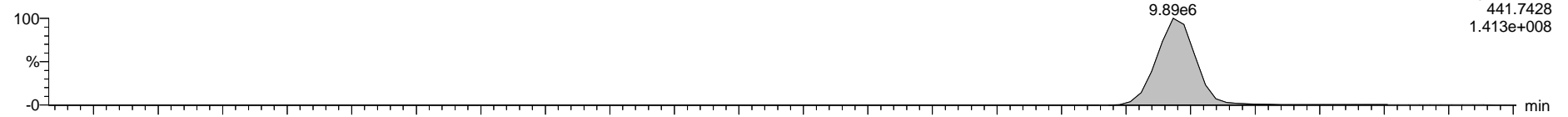


Axys Analytical Services, Ltd.

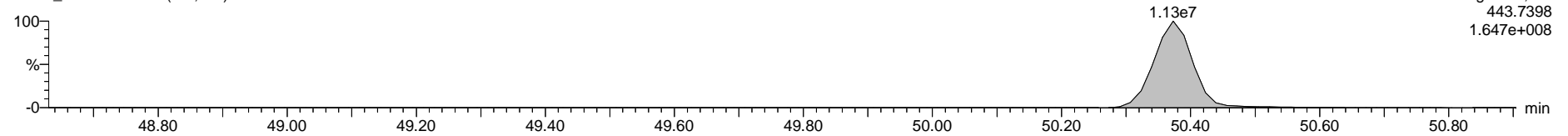
Name: DX9M_072S6, Date: 19-Jun-2009, Time: 14:20:37, ID: DX036F-CAL,,/01-3, Description: 1,,1.0uL CS-5

OCDF

DX9M_072S6 Smooth(SG,1x2)

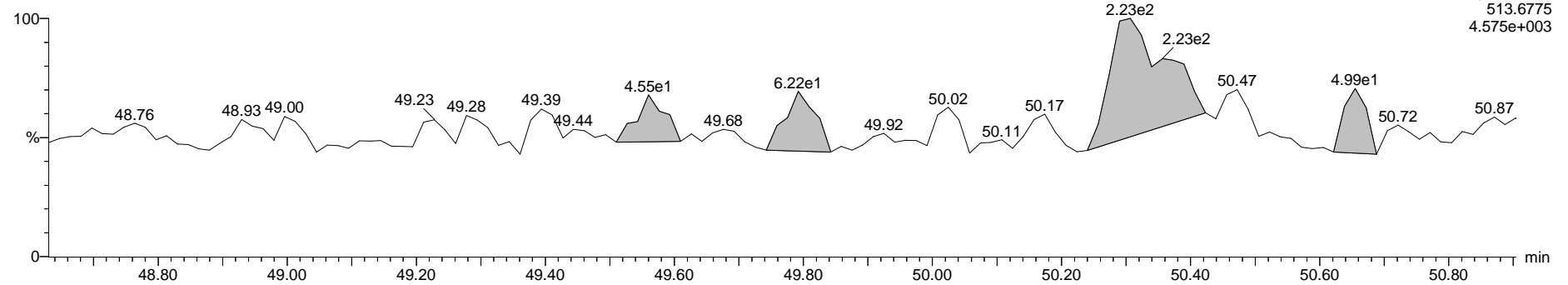


DX9M_072S6 Smooth(SG,1x2)



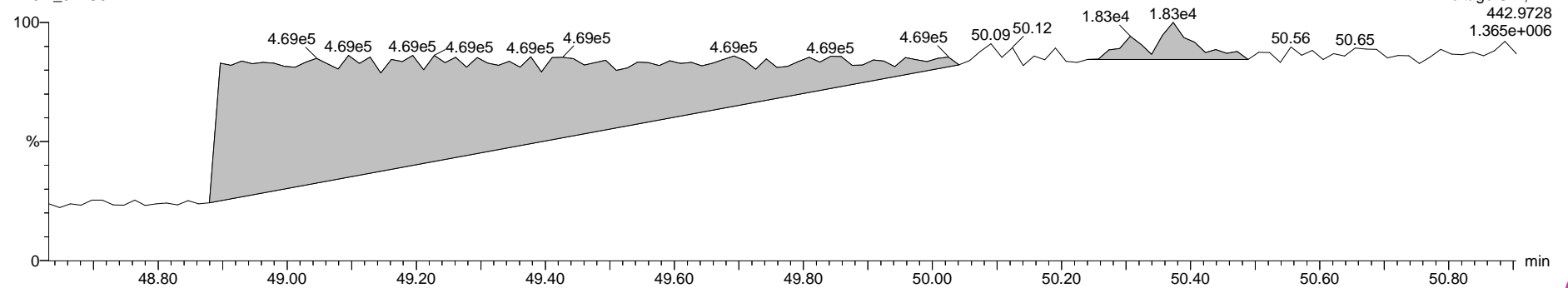
Deca DPE

DX9M_072S6 Smooth(SG,1x2)



Octa Lock

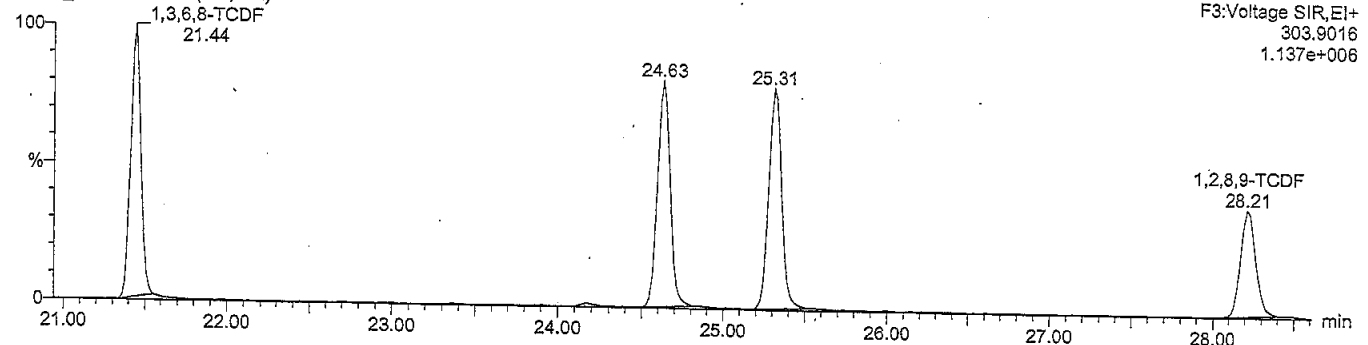
DX9M_072S6



Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

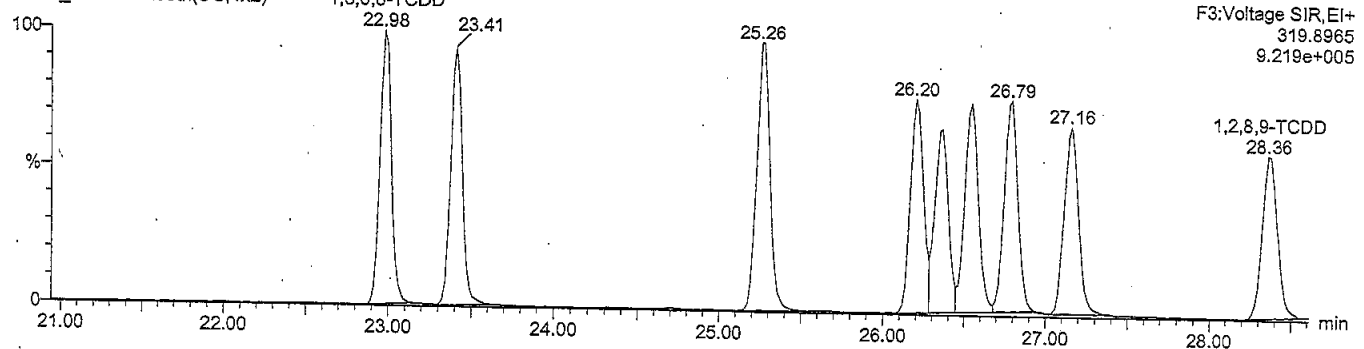
1,3,6,8-TCDF

DX9M_072S1 Smooth(SG,1x2)



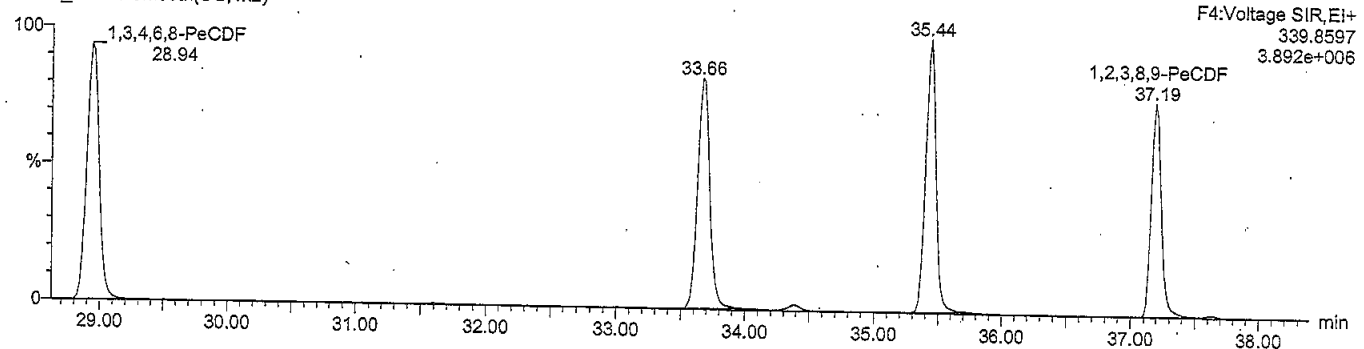
1,3,6,8-TCDD

DX9M_072S1 Smooth(SG,1x2)



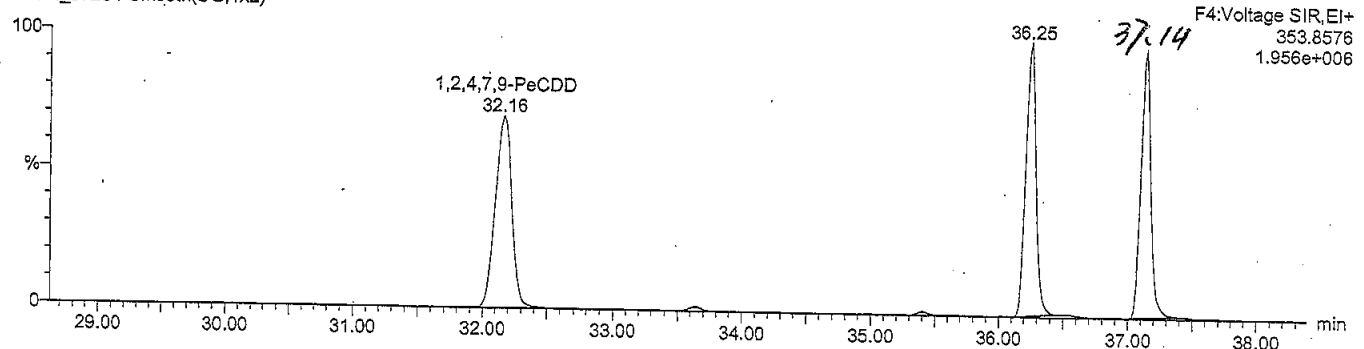
1,3,4,6,8-PeCDF

DX9M_072S1 Smooth(SG,1x2)



1,2,4,7,9-PeCDD

DX9M_072S1 Smooth(SG,1x2)

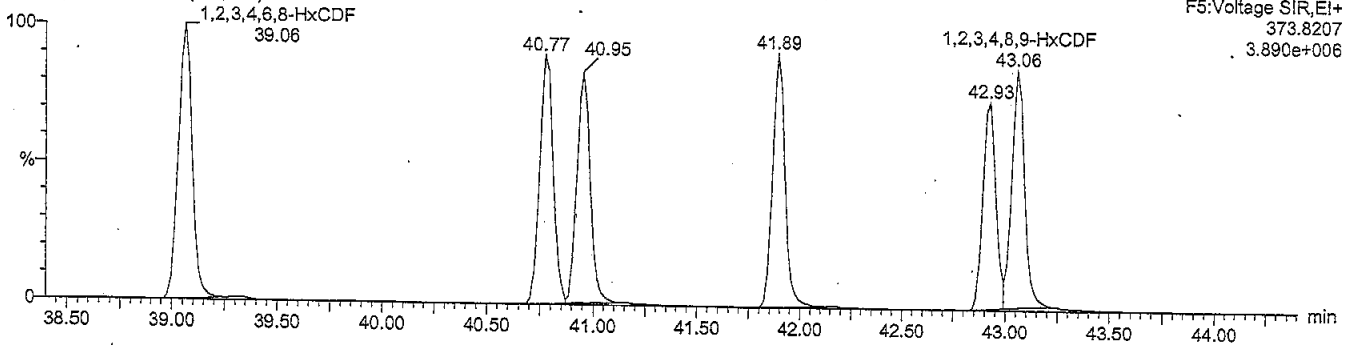


Axys Analytical Services, Ltd.
Quantify Sample Report MassLynx 4.1 SCN627

Name: DX9M_072S1, Date: 19-Jun-2009, Time: 09:48:25, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

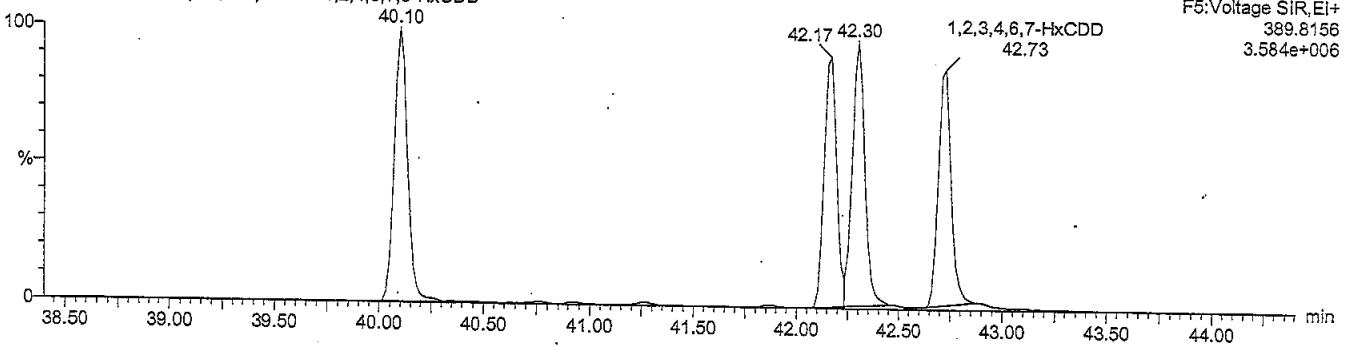
1,2,3,4,6,8-HxCDF

DX9M_072S1 Smooth(SG,1x2)



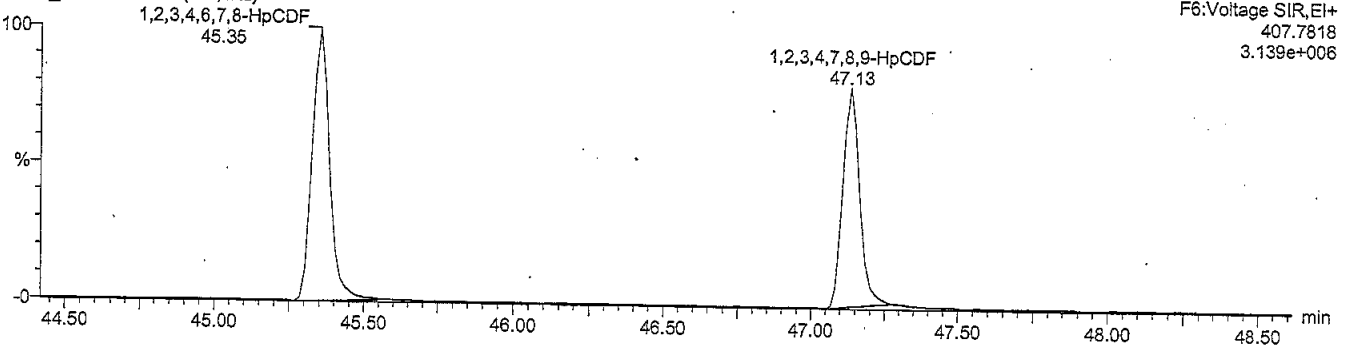
1,2,4,6,7,9-HxCDD

DX9M_072S1 Smooth(SG,1x2)



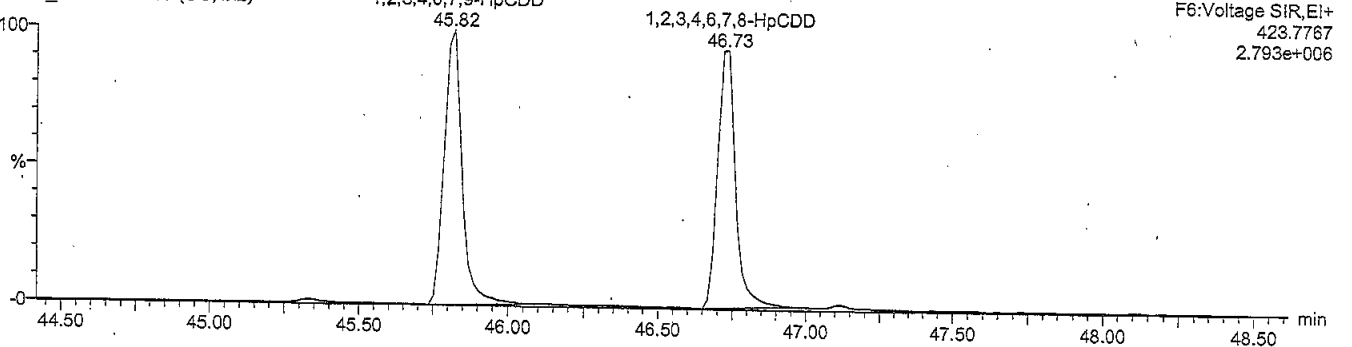
1,2,3,4,6,7,8-HpCDF

DX9M_072S1 Smooth(SG,1x2)



1,2,3,4,6,7,9-HpCDD

DX9M_072S1 Smooth(SG,1x2)



Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44

Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Compound name: -

#	Name	ID	Sample Text	Acq. Date	Acq. Time
1	DX9M_082ES1	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	08-Jul-09	20:05:04
2	DX9M_082ES2	WG29072-102,,SPM	1,WG29072,1.0/20uL	08-Jul-09	21:00:57
3	DX9M_082ES3	DX020B-SUR,,/06	1,,1.0uL Inst Blank	08-Jul-09	21:52:58
4	DX9M_082ES4	DX020B-SUR,,/06	1,,1.0uL Inst Blank	08-Jul-09	22:47:53
5	DX9M_082ES5	WG29072-101,,Blank	1,WG29072,1.0/20uL	08-Jul-09	23:42:51
6	DX9M_082ES6	L12698-12,,	1,WG29072,1.0/20uL	09-Jul-09	00:37:47
7	DX9M_082ES7	WG29072-103,,Dup	1,WG29072,1.0/20uL	09-Jul-09	01:32:44
8	DX9M_082ES8	L12698-14,,	1,WG29072,1.0/20uL	09-Jul-09	02:27:40
9	DX9M_082ES9	L12698-15,,	1,WG29072,1.0/20uL	09-Jul-09	03:22:37
10	DX9M_082ES10	L12698-16,,	1,WG29072,1.0/20uL	09-Jul-09	04:17:34
11	DX9M_082ES11	L12698-17,,	1,WG29072,1.0/20uL	09-Jul-09	05:12:29
12	DX9M_082ES12	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	09-Jul-09	06:07:27
13	DX9M_082ES13	DX020B-SUR,,/06	1,,1.0uL Inst Blank	09-Jul-09	07:14:18
14	DX9M_082ES14	DX020B-SUR,,/06	1,,1.0uL Inst Blank	09-Jul-09	08:06:38
15	DX9M_082ES15	L12698-18,,	1,WG29072,1.0/20uL	09-Jul-09	09:01:35
16	DX9M_082ES16	L12698-19,,	1,WG29072,1.0/20uL	09-Jul-09	09:56:31
17	DX9M_082ES17	L12698-20,,	1,WG29072,1.0/20uL	09-Jul-09	10:51:28
18	DX9M_082ES18	L12698-21,,	1,WG29072,1.0/20uL	09-Jul-09	11:46:25
19	DX9M_082ES19	L12698-22,,	1,WG29072,1.0/20uL	09-Jul-09	12:41:21
20	DX9M_082ES20	L12698-23,,	1,WG29072,1.0/20uL	09-Jul-09	13:36:17
21	DX9M_082ES21	L12698-24,,	1,WG29072,1.0/20uL	09-Jul-09	14:31:15
22	DX9M_082ES22	L12698-25,,	1,WG29072,1.0/20uL	09-Jul-09	15:26:11
23	DX9M_082ES23	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	09-Jul-09	16:21:15
24	DX9M_082ES24	WG29271-102,,SPM	1,WG29271,1.0/20uL	09-Jul-09	17:28:01
25	DX9M_082ES25	DX020B-SUR,,/06	1,,1.0uL Inst Blank	09-Jul-09	18:20:22
26	DX9M_082ES26	DX020B-SUR,,/06	1,,1.0uL Inst Blank	09-Jul-09	19:15:18
27	DX9M_082ES27	WG29271-101,,Blank	1,WG29271,1.0/20uL	09-Jul-09	20:10:20
28	DX9M_082ES28	L12912-1,,	1,WG29271,1.0/20uL	09-Jul-09	21:05:17
29	DX9M_082ES29	L12912-2,,	1,WG29271,1.0/20uL	09-Jul-09	22:00:14
30	DX9M_082ES30	L12912-3,,	1,WG29271,1.0/20uL	09-Jul-09	22:55:10
31	DX9M_082ES31	L12912-4,,	1,WG29271,1.0/20uL	09-Jul-09	23:50:07
32	DX9M_082ES32	L12912-5,,	1,WG29271,1.0/20uL	10-Jul-09	00:45:03
33	DX9M_082ES33	L12912-6,,	1,WG29271,1.0/20uL	10-Jul-09	01:40:00
34	DX9M_082ES34	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	02:34:57
35	DX9M_082ES35	WG29103-102,,SPM	1,WG29103,1.0/20uL	10-Jul-09	03:41:44
36	DX9M_082ES36	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	04:34:05
37	DX9M_082ES37	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	05:29:01
38	DX9M_082ES38	WG29103-101,,Blank	1,WG29103,1.0/20uL	10-Jul-09	06:23:59
39	DX9M_082ES39				
40	DX9M_082ES40				
41	DX9M_082ES41				
42	DX9M_082ES42				
43	DX9M_082ES43				
44	DX9M_082ES44				
45	DX9M_082ES45				
46	DX9M_082ES46				
47	DX9M_082ES47				
48	DX9M_082ES48				



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_082E-C.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

	Name	Sample Size	Resp	Ratio	fails?	RT	<i>ng</i>	DL	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	1.000	3.61e5	0.74	NO	25.29	11.417	0.0143	106.7	9.59e2	8.44e2
2	1,2,3,7,8-PeCDF	1.000	1.23e6	1.50	NO	33.63	50.464	0.0230	109.7	9.71e2	9.77e2
3	2,3,4,7,8-PeCDF	1.000	1.19e6	1.50	NO	35.38	49.248	0.0205	104.8	9.71e2	9.77e2
4	1,2,3,4,7,8-HxCDF	1.000	1.08e6	1.20	NO	40.74	53.258	0.0207	106.5	1.27e3	9.22e2
5	1,2,3,6,7,8-HxCDF	1.000	1.13e6	1.20	NO	40.90	51.641	0.0196	108.7	1.27e3	9.22e2
6	2,3,4,6,7,8-HxCDF	1.000	1.06e6	1.21	NO	41.84	54.938	0.0210	103.7	1.27e3	9.22e2
7	1,2,3,7,8,9-HxCDF	1.000	8.81e5	1.20	NO	42.88	52.974	0.0252	100.9	1.27e3	9.22e2
8	1,2,3,4,6,7,8-HpCDF	1.000	9.47e5	0.99	NO	45.30	54.444	0.0202	108.9	1.30e3	7.48e2
9	1,2,3,4,7,8,9-HpCDF	1.000	7.70e5	1.01	NO	47.08	53.855	0.0245	107.7	1.30e3	7.48e2
10	OCDF	1.000	1.41e6	0.87	NO	50.32	109.421	0.0157	105.2	4.35e2	7.03e2
11	2,3,7,8-TCDD	1.000	2.92e5	0.76	NO	26.53	10.333	0.0168	93.9	7.42e2	1.09e3
12	1,2,3,7,8-PeCDD	1.000	9.76e5	0.61	NO	36.20	51.332	0.0217	98.7	6.88e2	1.02e3
13	1,2,3,4,7,8-HxCDD	1.000	9.17e5	1.22	NO	42.12	56.227	0.0233	99.5	9.79e2	1.18e3
14	1,2,3,6,7,8-HxCDD	1.000	9.68e5	1.23	NO	42.25	56.102	0.0230	101.1	9.79e2	1.18e3
15	1,2,3,7,8,9-HxCDD	1.000	9.44e5	1.20	NO	42.68	57.326	0.0236	106.2	9.79e2	1.18e3
16	1,2,3,4,6,7,8-HpCDD	1.000	7.69e5	1.01	NO	46.68	47.942	0.0254	100.9	9.88e2	1.39e3
17	OCDD	1.000	1.39e6	0.85	NO	50.24	99.759	0.0131	99.8	7.72e2	2.50e2
18	13C-2,3,7,8-TCDF	1.000	4.13e6	0.78	NO	25.27	104.119	0.0304	104.1	2.37e3	2.66e3
19	13C-1,2,3,7,8-PeCDF	1.000	2.93e6	1.53	NO	33.61	105.607	0.0337	105.6	2.24e3	1.66e3
20	13C-2,3,4,7,8-PeCDF	1.000	2.85e6	1.51	NO	35.36	105.645	0.0346	105.6	2.24e3	1.66e3
21	13C-1,2,3,4,7,8-HxCDF	1.000	2.10e6	0.51	NO	40.71	96.657	0.0431	96.7	3.06e3	2.03e3
22	13C-1,2,3,6,7,8-HxCDF	1.000	2.40e6	0.51	NO	40.89	94.744	0.0371	94.7	3.06e3	2.03e3
23	13C-2,3,4,6,7,8-HxCDF	1.000	2.21e6	0.51	NO	41.82	95.202	0.0404	95.2	3.06e3	2.03e3
24	13C-1,2,3,7,8,9-HxCDF	1.000	2.06e6	0.51	NO	42.86	94.897	0.0433	94.9	3.06e3	2.03e3
25	13C-1,2,3,4,6,7,8-HpCDF	1.000	1.65e6	0.44	NO	45.29	94.473	0.0558	94.5	2.85e3	2.42e3
26	13C-1,2,3,4,7,8,9-HpCDF	1.000	1.49e6	0.45	NO	47.07	92.956	0.0606	93.0	2.85e3	2.42e3
27	13C-2,3,7,8-TCDD	1.000	3.15e6	0.77	NO	26.50	103.317	0.0353	103.3	2.41e3	2.09e3
28	13C-1,2,3,7,8-PeCDD	1.000	2.17e6	0.62	NO	36.16	109.791	0.0236	109.8	1.20e3	7.49e2
29	13C-1,2,3,4,7,8-HxCDD	1.000	1.99e6	1.26	NO	42.10	95.800	0.0375	95.8	2.43e3	1.80e3
30	13C-1,2,3,6,7,8-HxCDD	1.000	2.28e6	1.25	NO	42.23	93.603	0.0321	93.6	2.43e3	1.80e3
31	13C-1,2,3,4,6,7,8-HpCDD	1.000	1.67e6	1.01	NO	46.67	91.284	0.0321	91.3	1.48e3	1.70e3
32	13C-OCDD	1.000	3.01e6	0.89	NO	50.22	145.171	0.0395	72.6	2.21e3	2.22e3
33	13C-1,2,3,4-TCDD	1.000	2.80e6	0.79	NO	26.17	157.953	0.0608	158.0	2.41e3	2.09e3
34	13C-1,2,3,7,8,9-HxCDD	1.000	2.14e6	1.23	NO	42.66	189.674	0.0694	189.7	2.43e3	1.80e3
35	37Cl-2,3,7,8-TCDD	1.000	3.23e5			26.51	11.114	0.0164	111.1		1.99e3
36	Total Tetra-Furans	1.000					40.199	0.0143			8.44e2
37	Total Tetra-Dioxins	1.000					87.807	0.0168			1.09e3
38	Total Penta-Furans	1.000					192.135	0.0219			9.77e2
39	Total Penta-Dioxins	1.000					155.134	0.0217			1.02e3
40	Total Hexa-Furans	1.000					318.591	0.0198			9.22e2
41	Total Hexa-Dioxins	1.000					231.679	0.0222			1.18e3
42	Total Hepta-Furans	1.000					109.329	0.0211			7.48e2
43	Total Hepta-Dioxins	1.000					98.486	0.0254			1.39e3
44	Hexa DPE	1.000	1.73e2			22.38					1.27e2
45	Hepta DPE	1.000	1.78e3			37.57					1.89e2
46	Octa DPE	1.000	1.09e2			43.71					1.26e2
47	Nona DPE	1.000	9.50e1			48.08					8.04e2
48	Deca DPE	1.000									8.61e2
49	Tetra Lock	1.000	7.73e3			25.07					8.93e4
50	Penta Lock	1.000	2.93e5			30.28					5.78e4
51	Hexa Lock	1.000	1.24e5			39.82					1.08e5

PV WL 13-JUL-2009



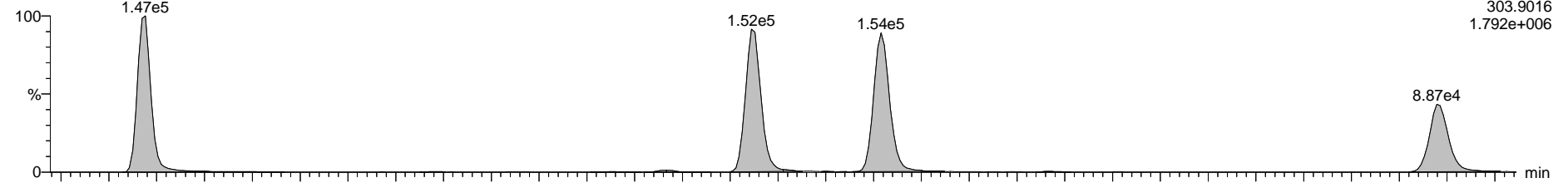
Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

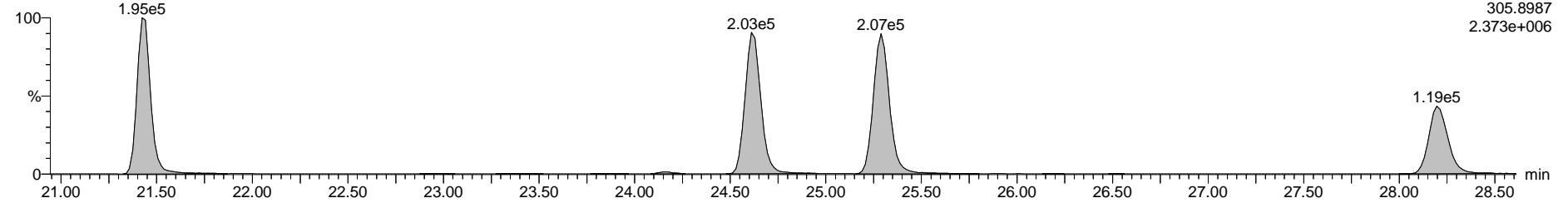
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Total Tetra-Furans

DX9M_082ES23 Smooth(SG,1x2)

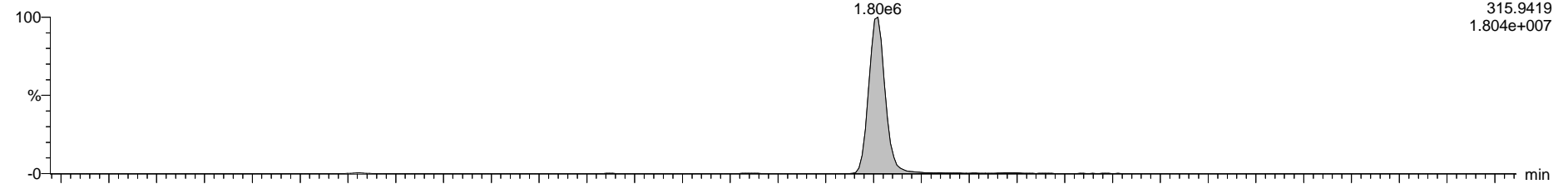


DX9M_082ES23 Smooth(SG,1x2)

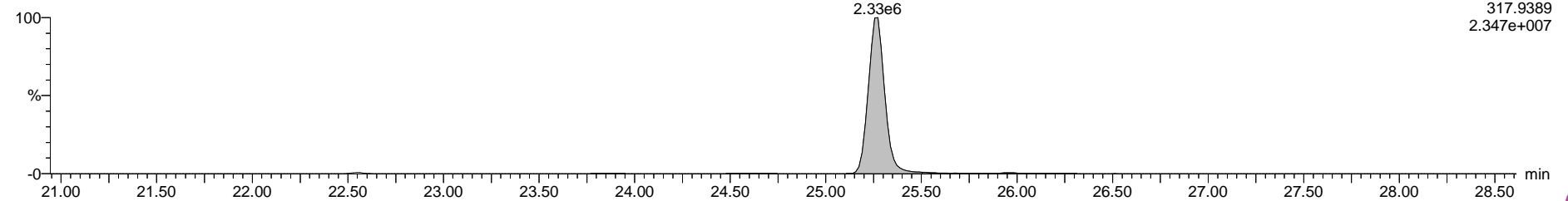


13C-2,3,7,8-TCDF

DX9M_082ES23 Smooth(SG,1x2)



DX9M_082ES23 Smooth(SG,1x2)

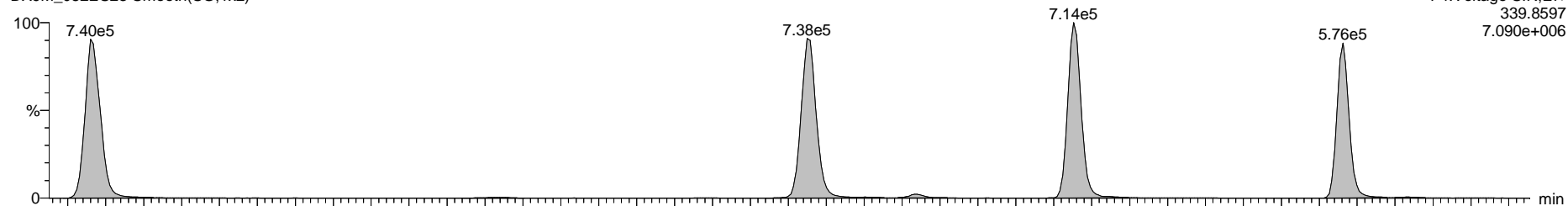


Axys Analytical Services, Ltd.

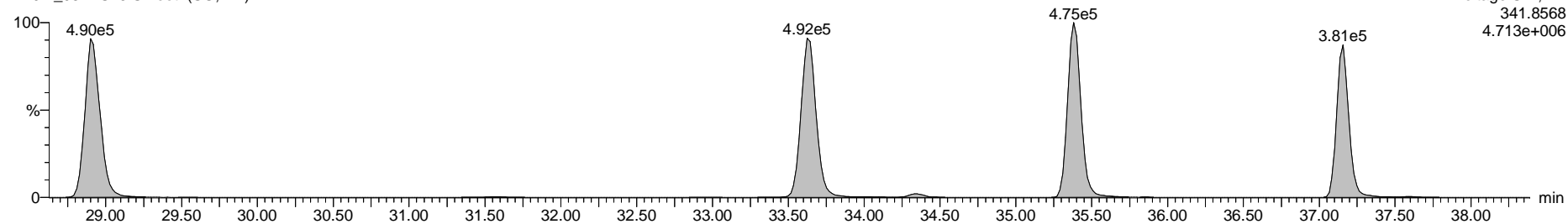
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Total Penta-Furans

DX9M_082ES23 Smooth(SG,1x2)

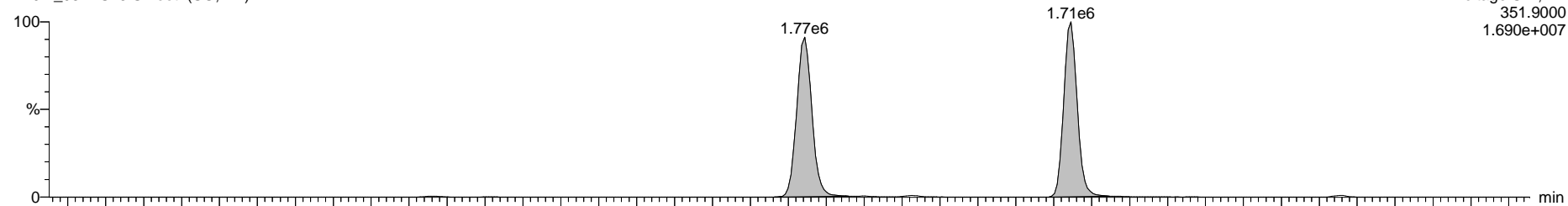


DX9M_082ES23 Smooth(SG,1x2)

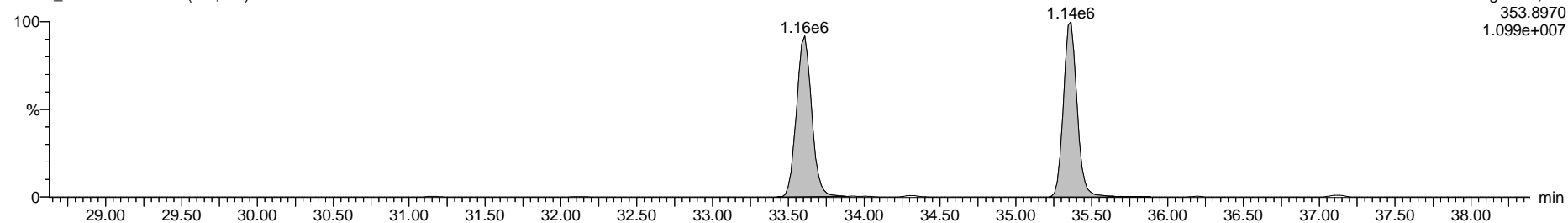


13C-1,2,3,7,8-PeCDF

DX9M_082ES23 Smooth(SG,1x2)



DX9M_082ES23 Smooth(SG,1x2)

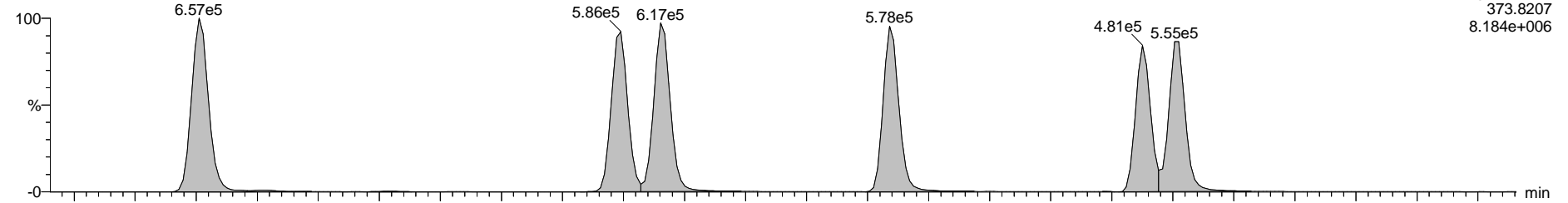


Axys Analytical Services, Ltd.

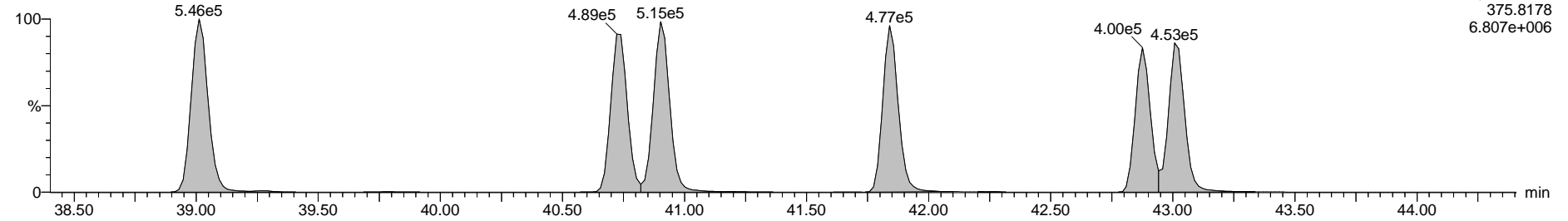
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Total Hexa-Furans

DX9M_082ES23 Smooth(SG,1x2)

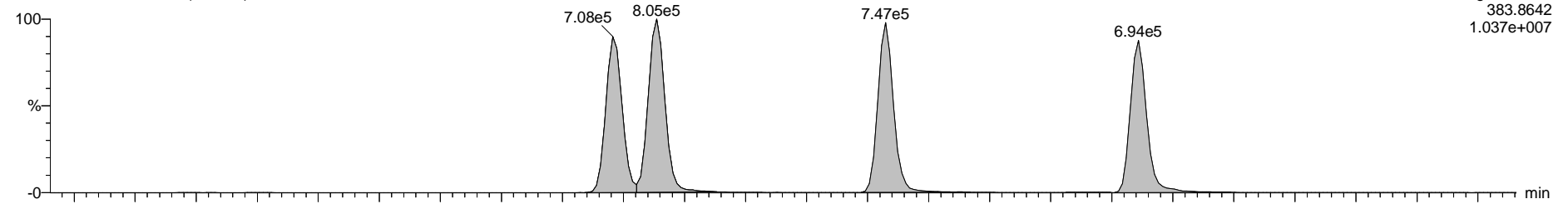


DX9M_082ES23 Smooth(SG,1x2)

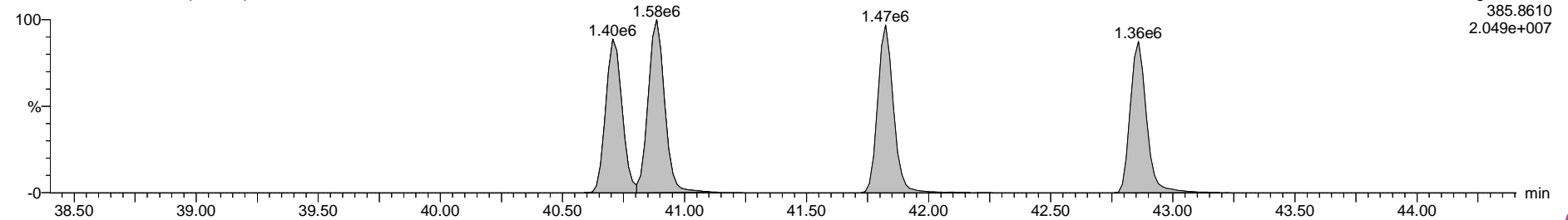


13C-1,2,3,4,7,8-HxCDF

DX9M_082ES23 Smooth(SG,1x2)



DX9M_082ES23 Smooth(SG,1x2)

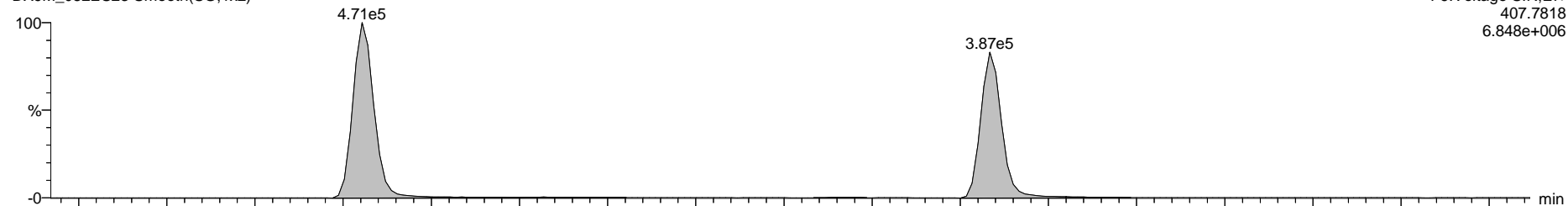


Axys Analytical Services, Ltd.

Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

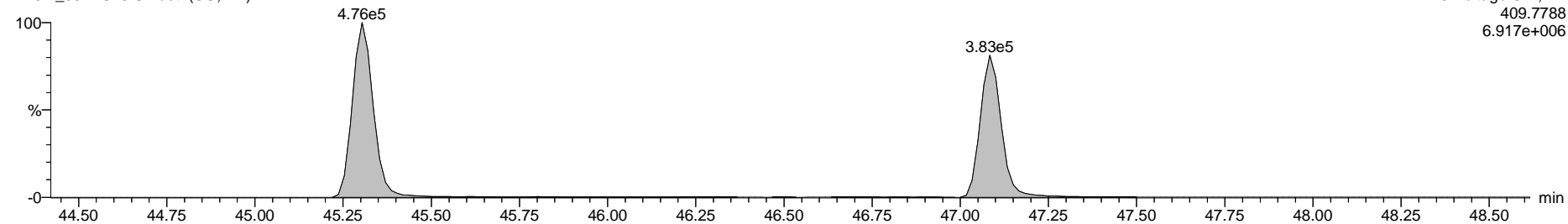
Total Hepta-Furans

DX9M_082ES23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
6.848e+006

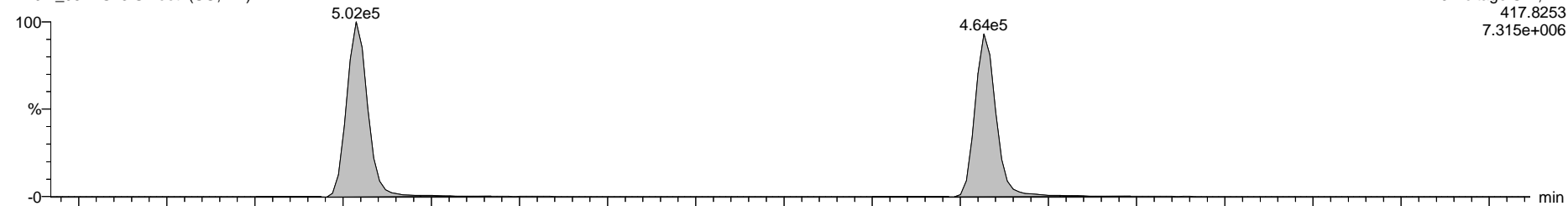
DX9M_082ES23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
6.917e+006

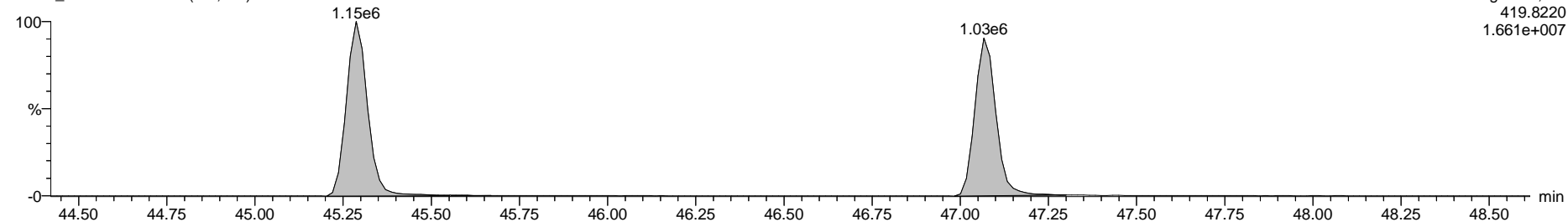
13C-1,2,3,4,6,7,8-HpCDF

DX9M_082ES23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
7.315e+006

DX9M_082ES23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
1.661e+007

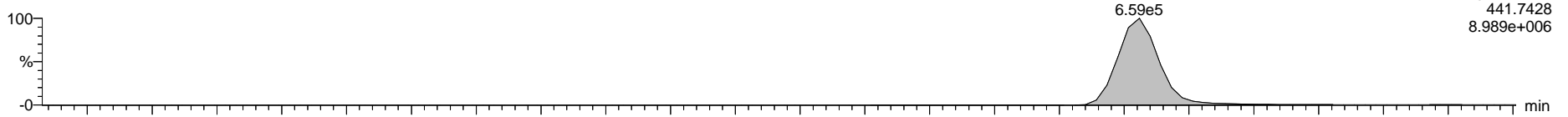


Axys Analytical Services, Ltd.

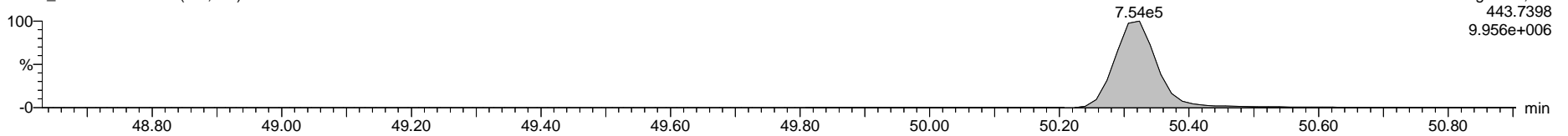
Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

OCDF

DX9M_082ES23 Smooth(SG,1x2)

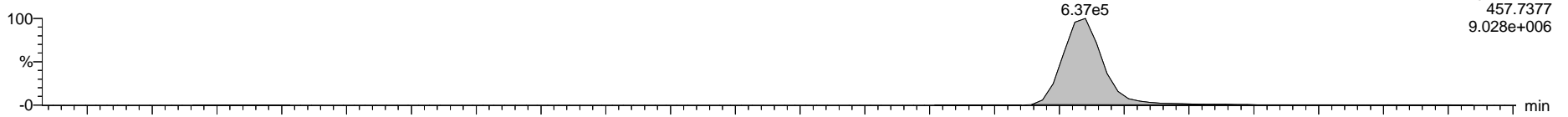


DX9M_082ES23 Smooth(SG,1x2)

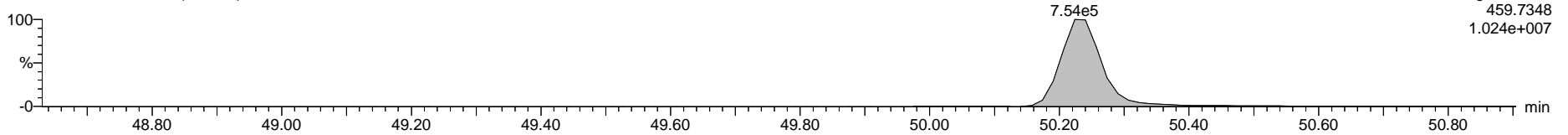


OCDD

DX9M_082ES23 Smooth(SG,1x2)

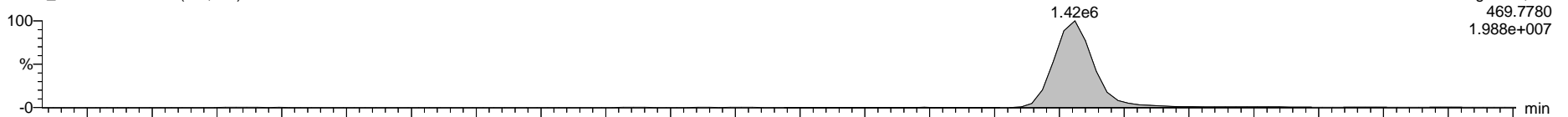


DX9M_082ES23 Smooth(SG,1x2)

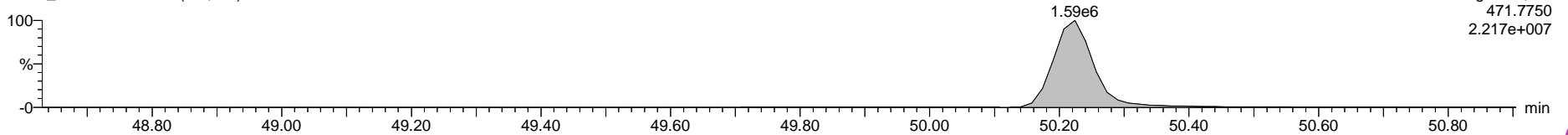


13C-OCDD

DX9M_082ES23 Smooth(SG,1x2)



DX9M_082ES23 Smooth(SG,1x2)

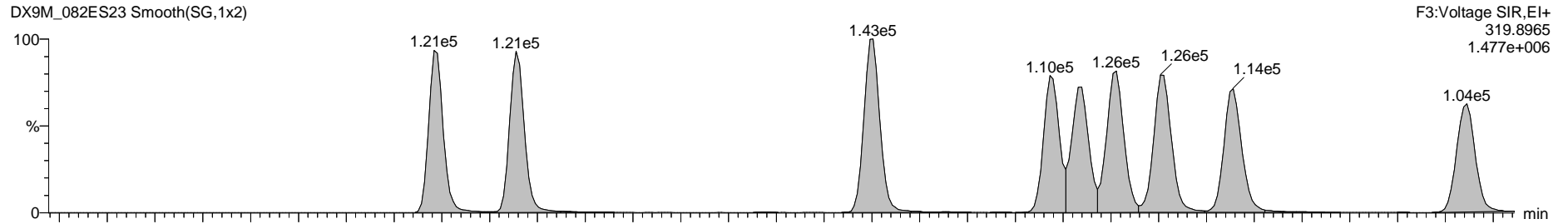


Axys Analytical Services, Ltd.

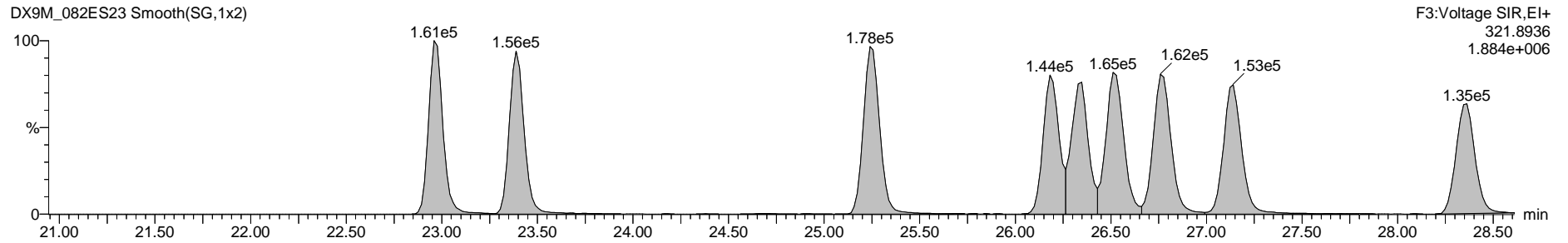
Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Tetra-Dioxins

DX9M_082ES23 Smooth(SG,1x2)

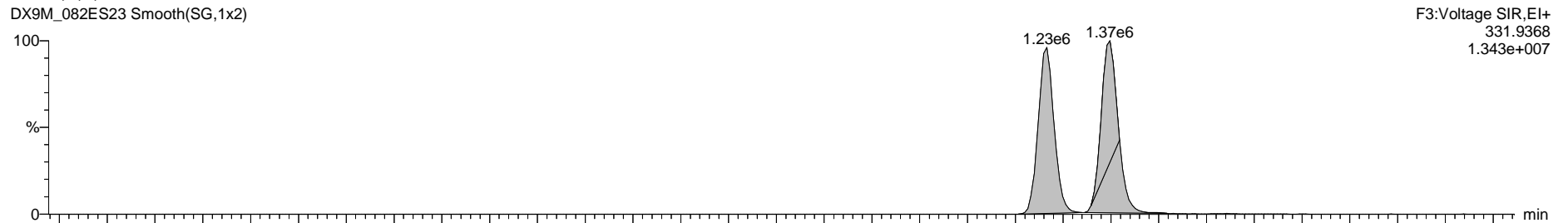


DX9M_082ES23 Smooth(SG,1x2)

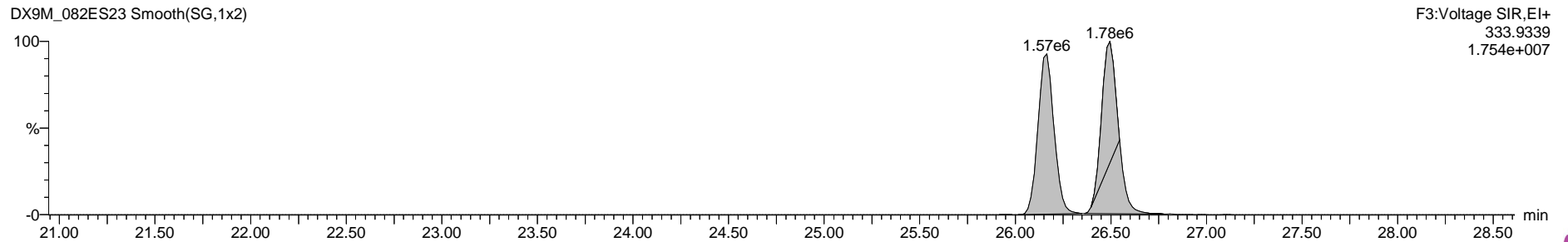


13C-2,3,7,8-TCDD

DX9M_082ES23 Smooth(SG,1x2)



DX9M_082ES23 Smooth(SG,1x2)

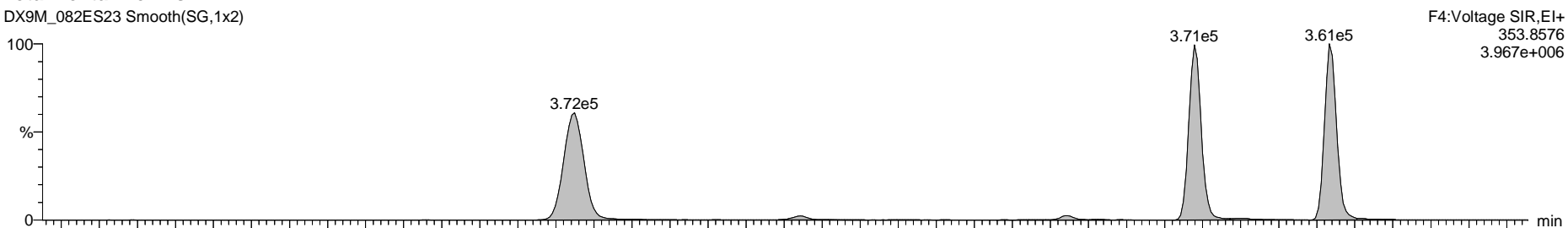


Axys Analytical Services, Ltd.

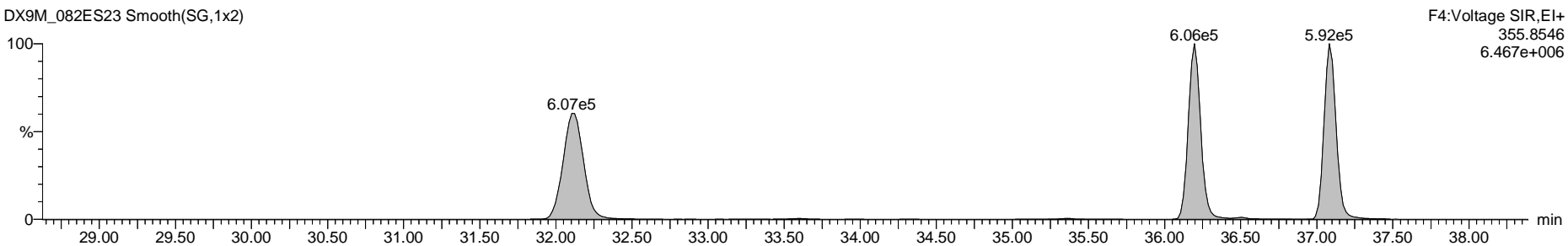
Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Penta-Dioxins

DX9M_082ES23 Smooth(SG,1x2)

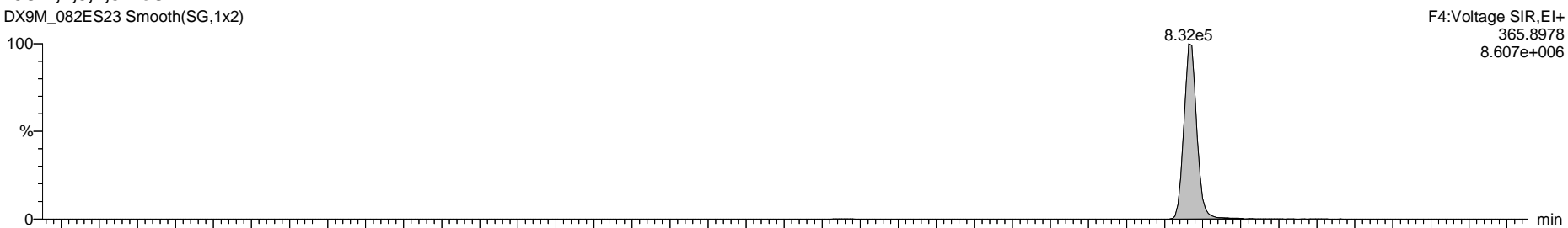


DX9M_082ES23 Smooth(SG,1x2)

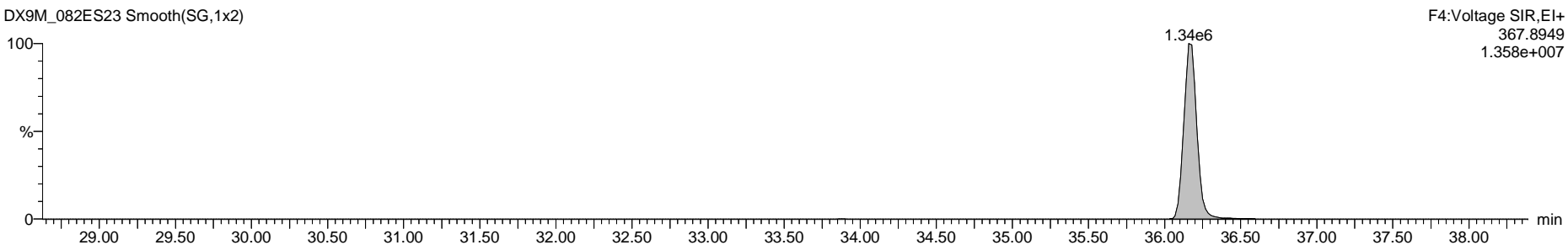


13C-1,2,3,7,8-PeCDD

DX9M_082ES23 Smooth(SG,1x2)



DX9M_082ES23 Smooth(SG,1x2)

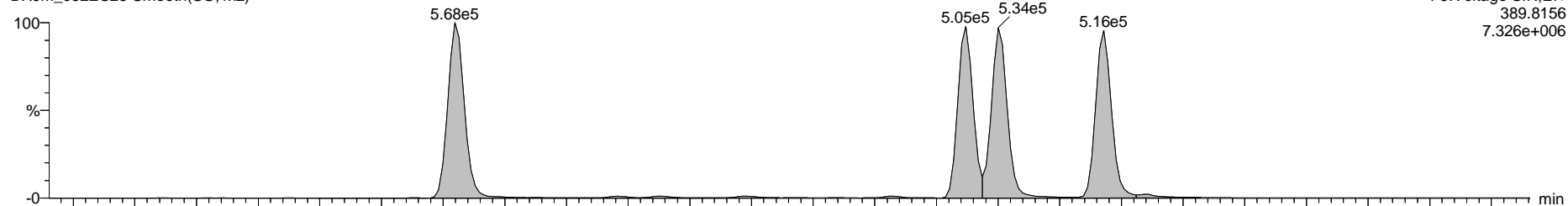


Axys Analytical Services, Ltd.

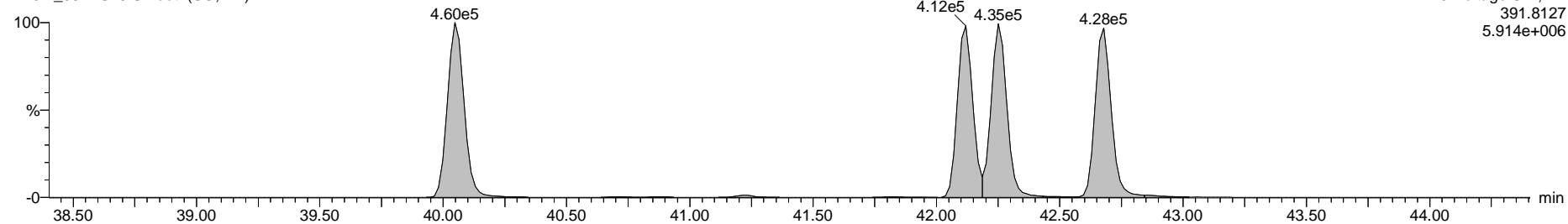
Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Hexa-Dioxins

DX9M_082ES23 Smooth(SG,1x2)

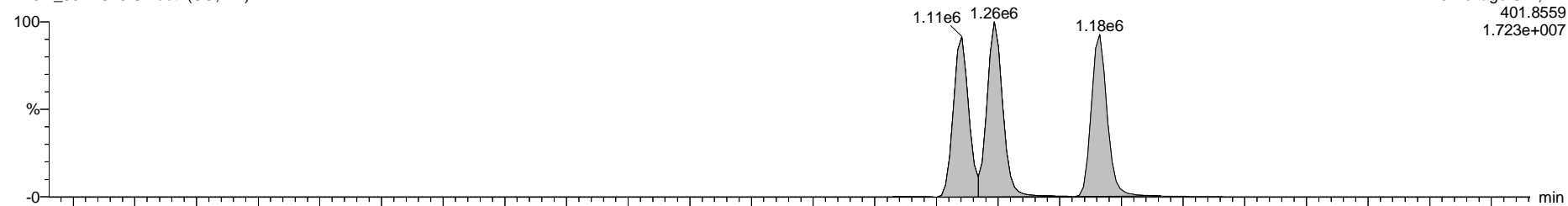


DX9M_082ES23 Smooth(SG,1x2)

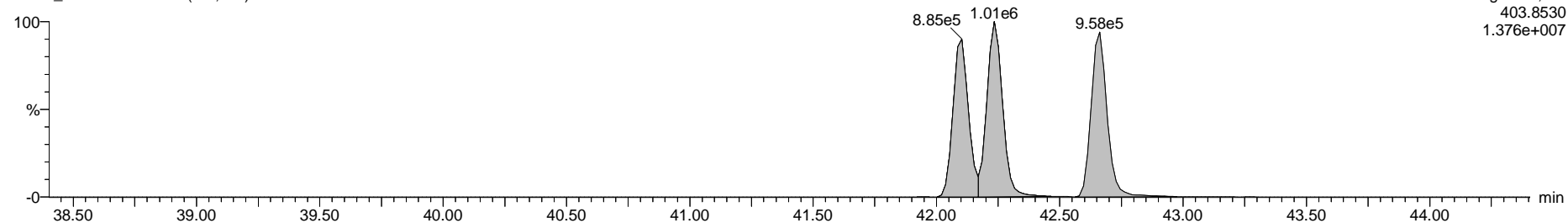


13C-1,2,3,4,7,8-HxCDD

DX9M_082ES23 Smooth(SG,1x2)



DX9M_082ES23 Smooth(SG,1x2)

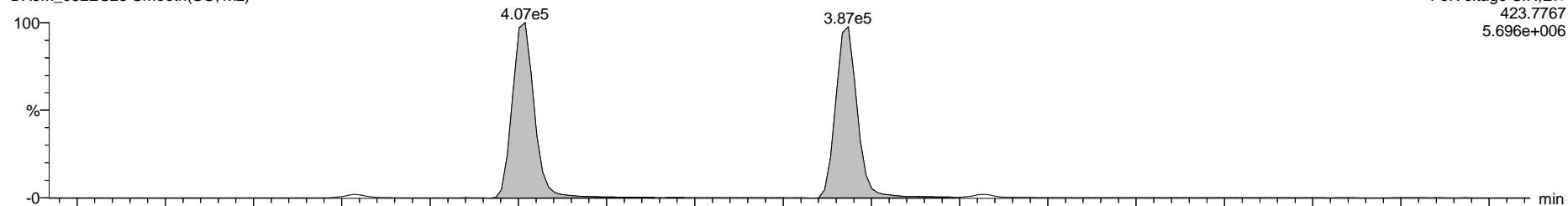


Axys Analytical Services, Ltd.

Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

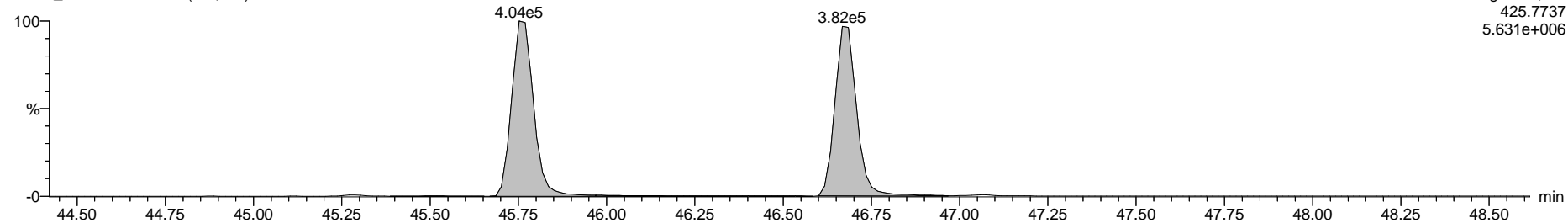
Total Hepta-Dioxins

DX9M_082ES23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
5.696e+006

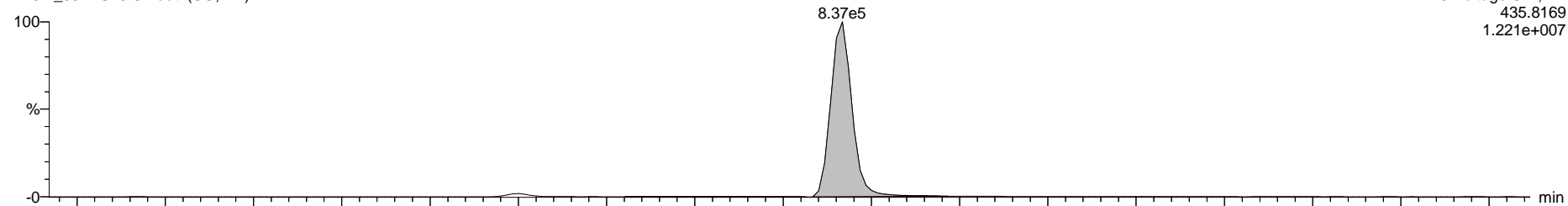
DX9M_082ES23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
5.631e+006

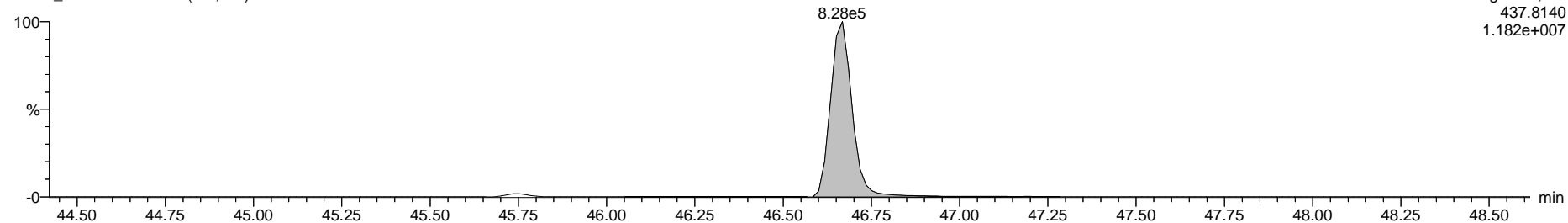
13C-1,2,3,4,6,7,8-HpCDD

DX9M_082ES23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
1.221e+007

DX9M_082ES23 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
1.182e+007

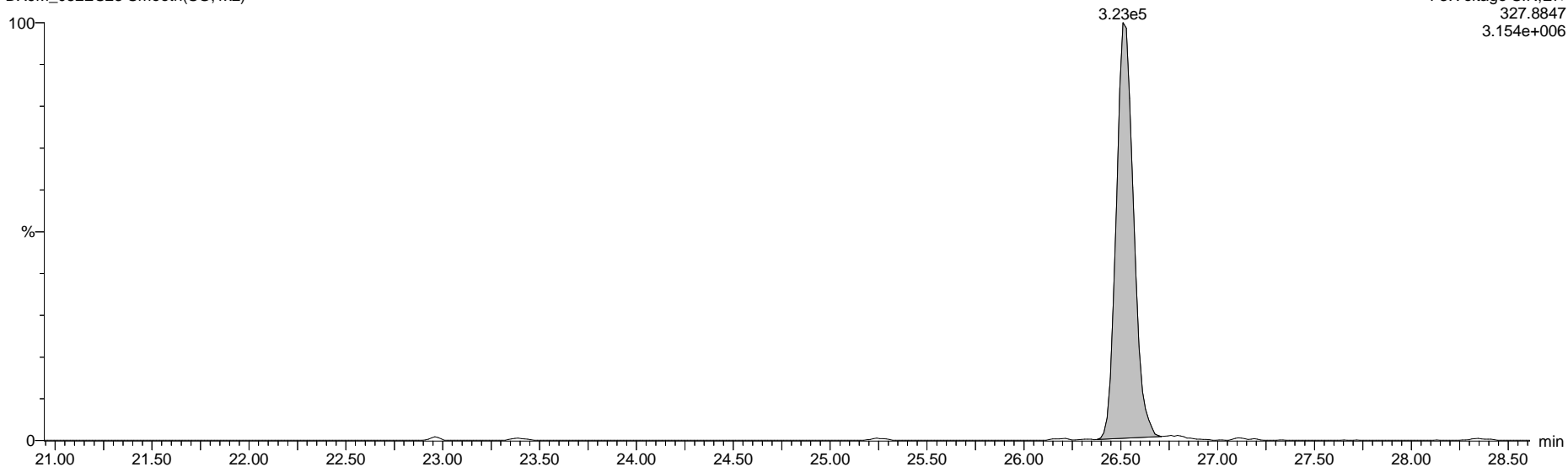


Axys Analytical Services, Ltd.

Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

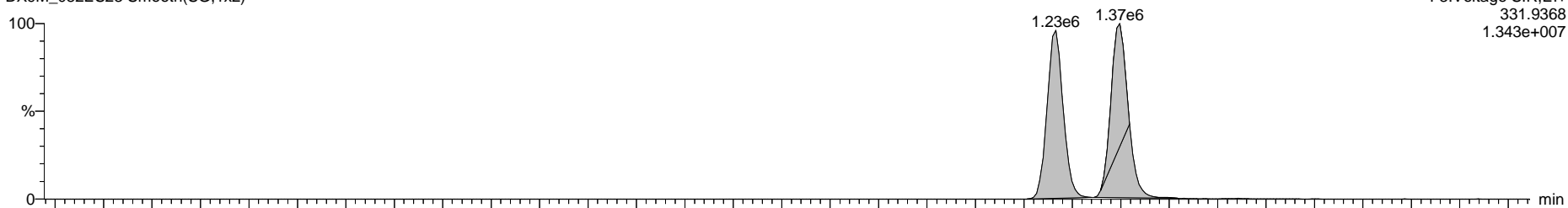
37Cl-2,3,7,8-TCDD

DX9M_082ES23 Smooth(SG,1x2)

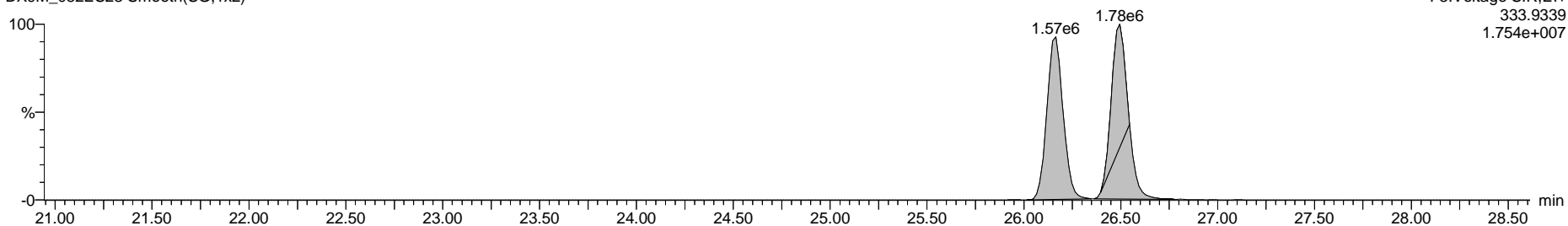


13C-1,2,3,4-TCDD

DX9M_082ES23 Smooth(SG,1x2)



DX9M_082ES23 Smooth(SG,1x2)

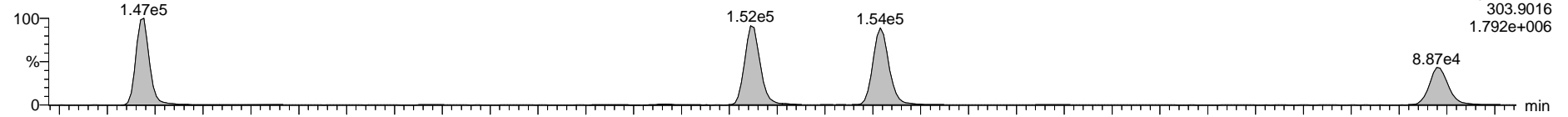


Axys Analytical Services, Ltd.

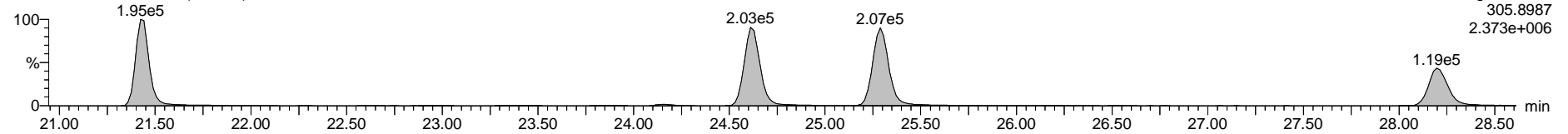
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Total Tetra-Furans

DX9M_082ES23 Smooth(SG,1x2)

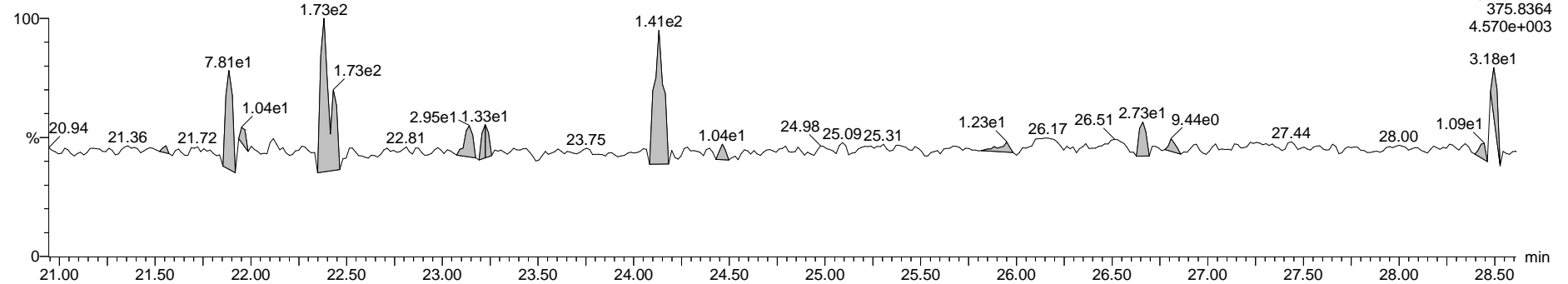


DX9M_082ES23 Smooth(SG,1x2)



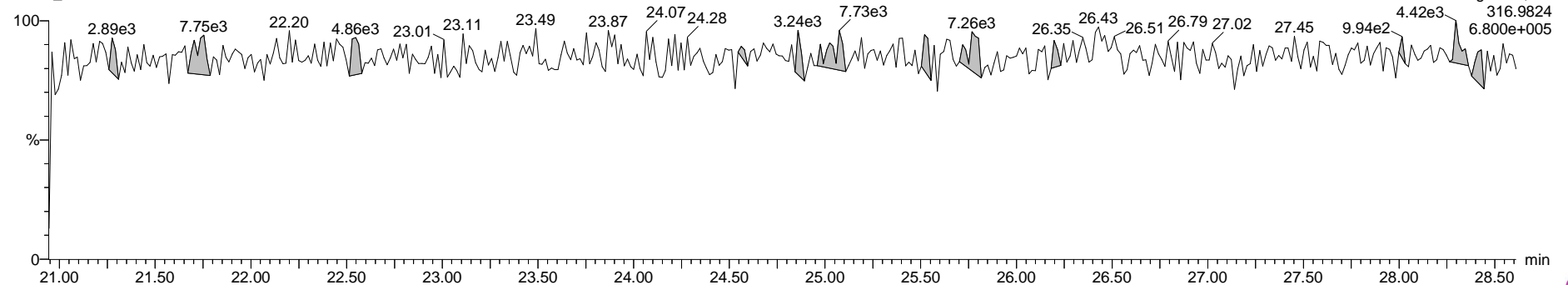
Hexa DPE

DX9M_082ES23 Smooth(SG,1x2)



Tetra Lock

DX9M_082ES23

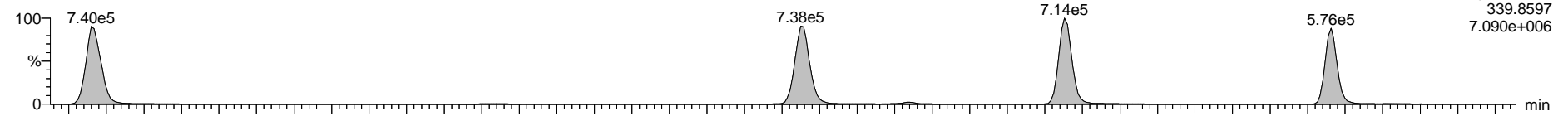


Axys Analytical Services, Ltd.

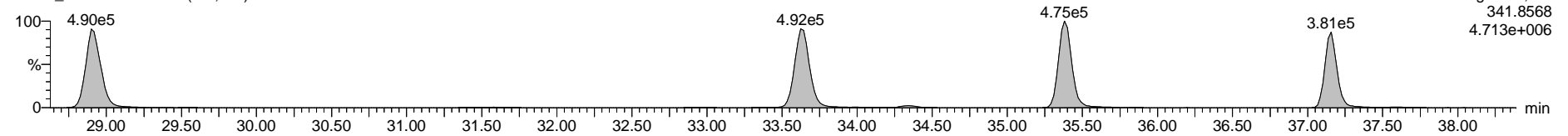
Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Penta-Furans

DX9M_082ES23 Smooth(SG,1x2)

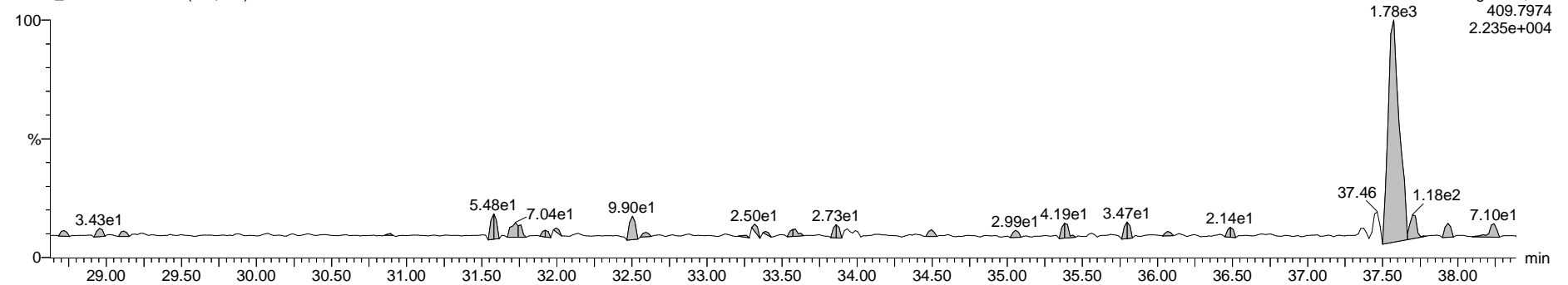


DX9M_082ES23 Smooth(SG,1x2)



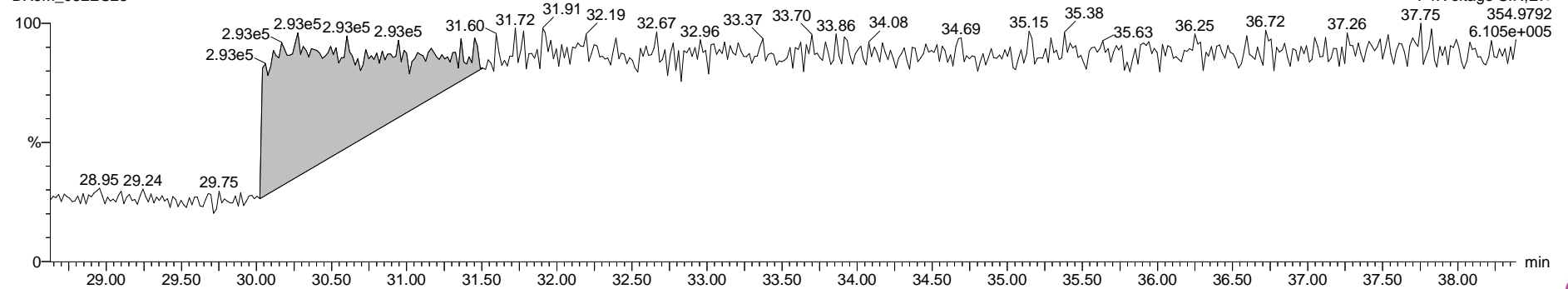
Hepta DPE

DX9M_082ES23 Smooth(SG,1x2)



Penta Lock

DX9M_082ES23

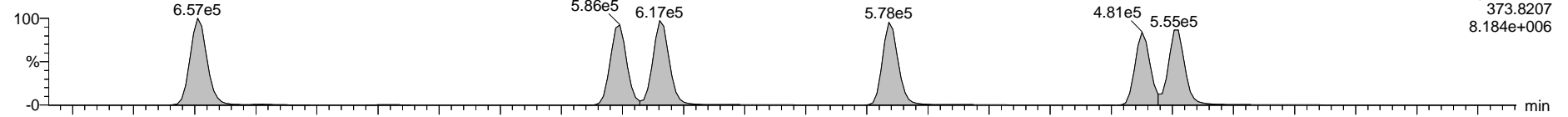


Axys Analytical Services, Ltd.

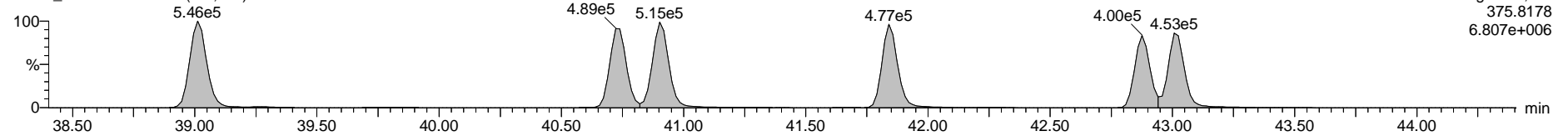
Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Hexa-Furans

DX9M_082ES23 Smooth(SG,1x2)

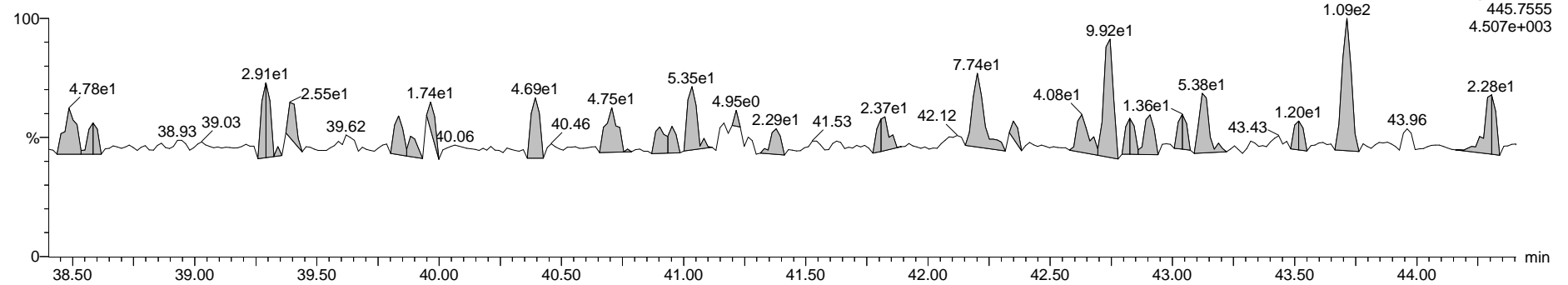


DX9M_082ES23 Smooth(SG,1x2)



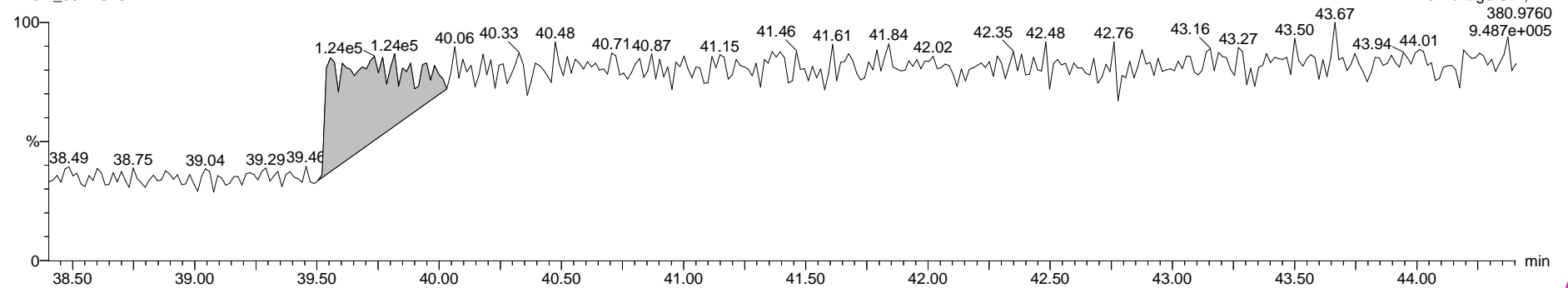
Octa DPE

DX9M_082ES23 Smooth(SG,1x2)



Hexa Lock

DX9M_082ES23

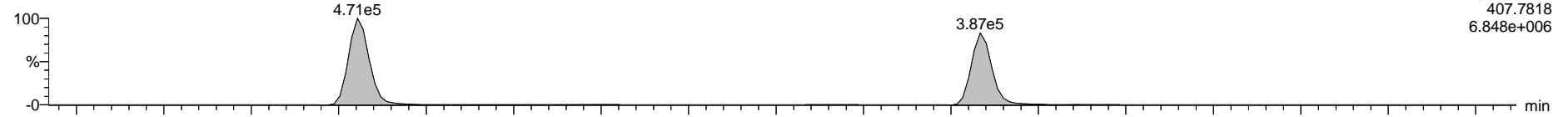


Axys Analytical Services, Ltd.

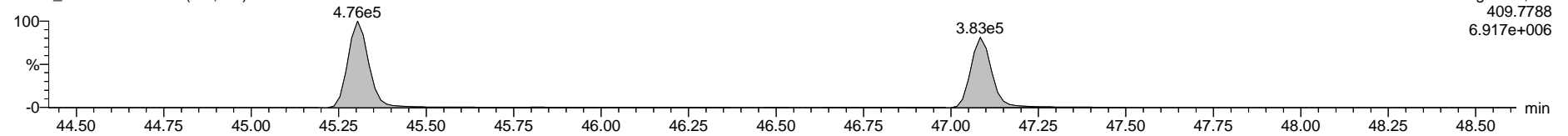
Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Hepta-Furans

DX9M_082ES23 Smooth(SG,1x2)

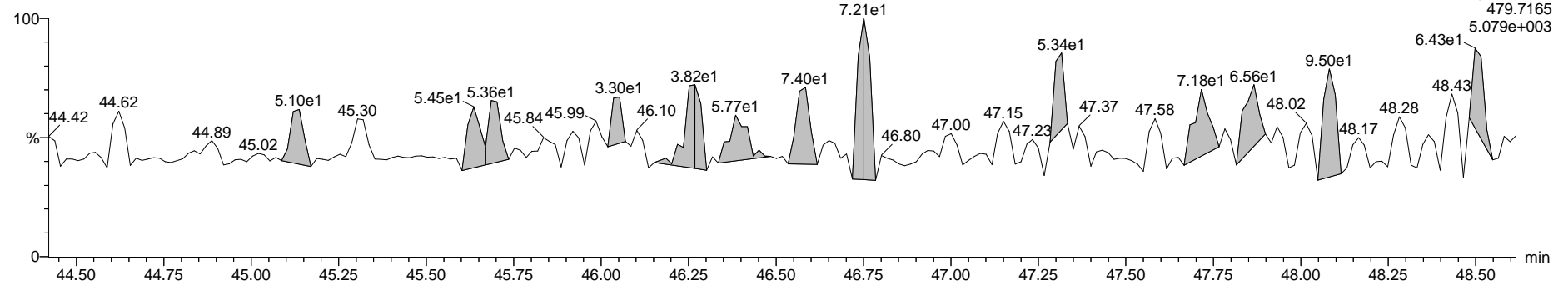


DX9M_082ES23 Smooth(SG,1x2)



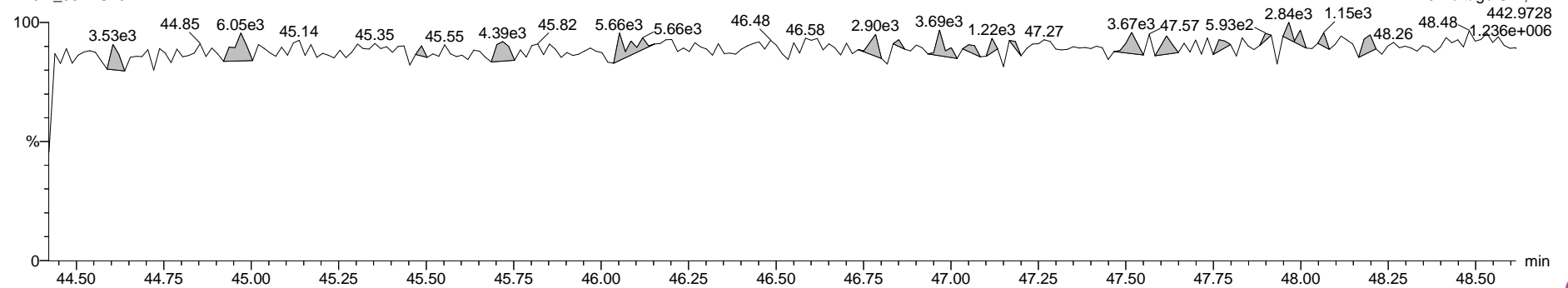
Nona DPE

DX9M_082ES23 Smooth(SG,1x2)



Hepta Lock

DX9M_082ES23

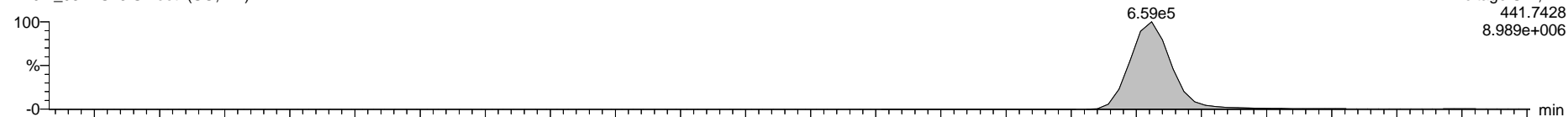


Axys Analytical Services, Ltd.

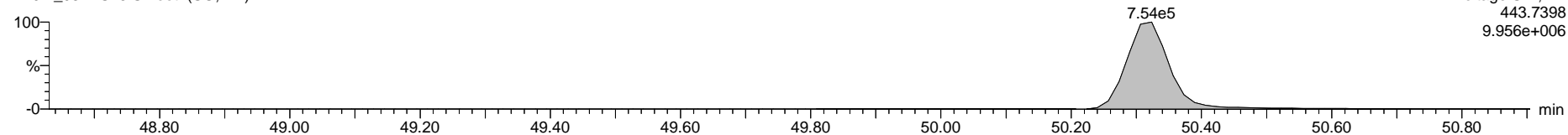
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OCDF

DX9M_082ES23 Smooth(SG,1x2)

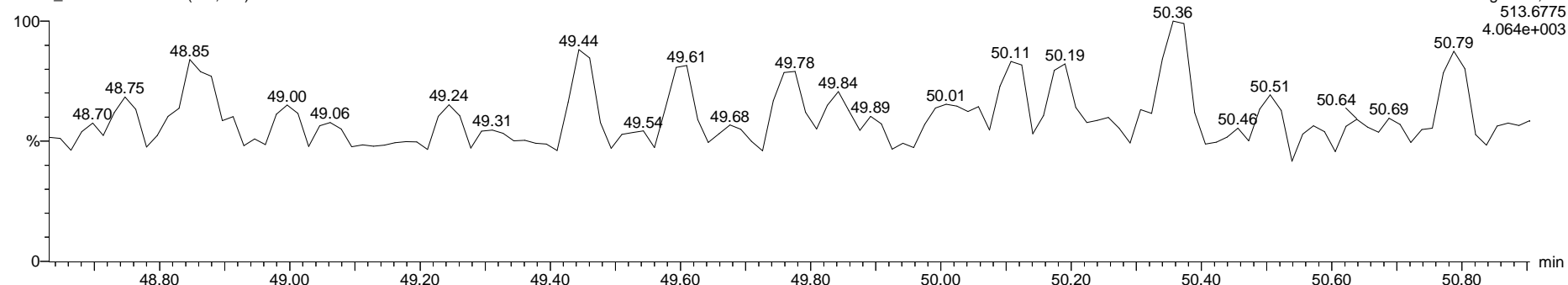


DX9M_082ES23 Smooth(SG,1x2)



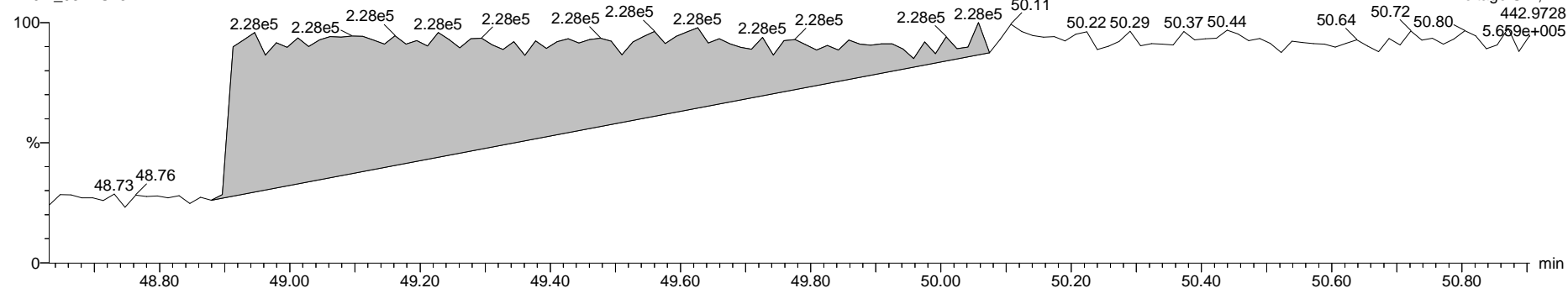
Deca DPE

DX9M_082ES23 Smooth(SG,1x2)



Octa Lock

DX9M_082ES23

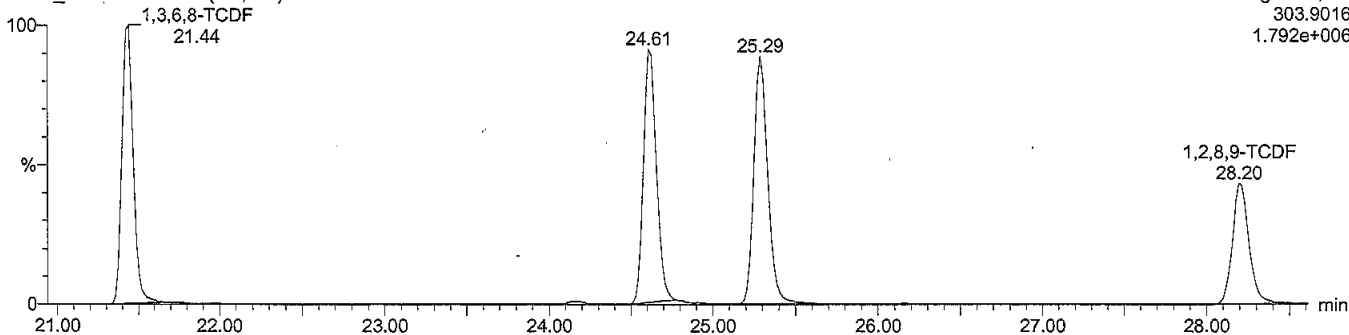


Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

1,3,6,8-TCDF

DX9M_082ES23 Smooth(SG,1x2)

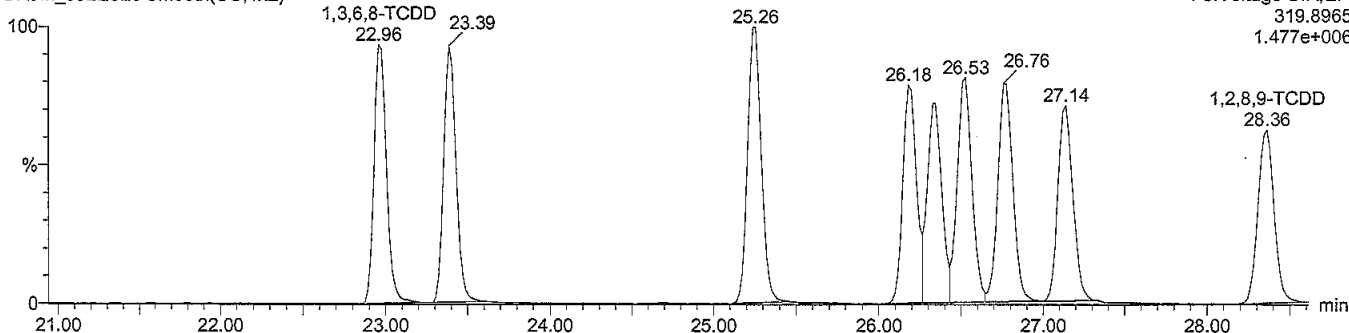
F3:Voltage SIR,EI+
 303.9016
 1.792e+006



1,3,6,8-TCDD

DX9M_082ES23 Smooth(SG,1x2)

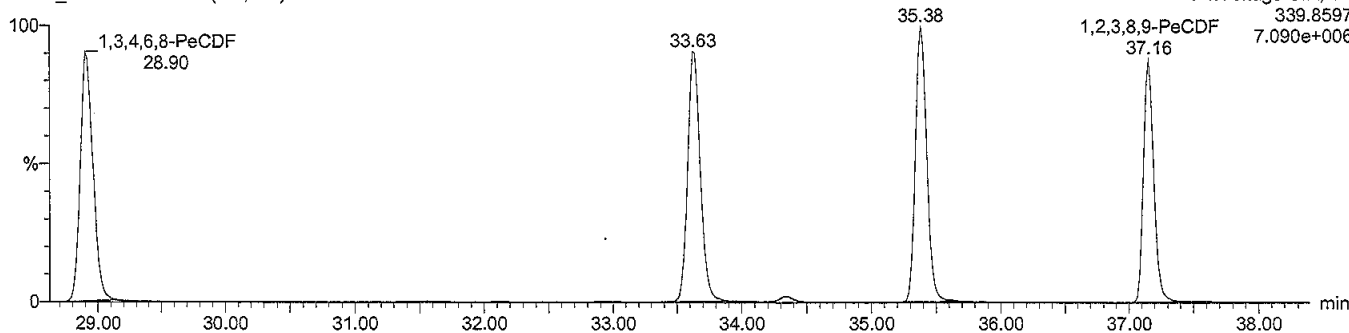
F3:Voltage SIR,EI+
 319.8965
 1.477e+006



1,3,4,6,8-PeCDF

DX9M_082ES23 Smooth(SG,1x2)

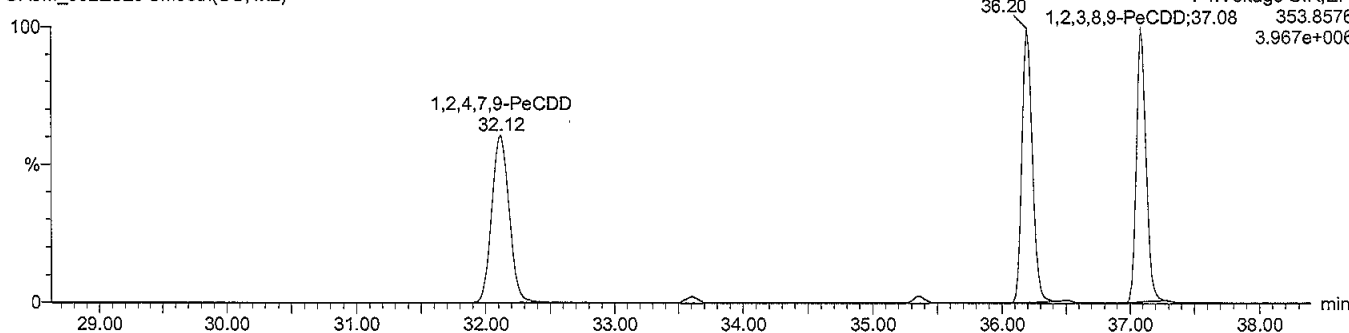
F4:Voltage SIR,EI+
 339.8597
 7.090e+006



1,2,4,7,9-PeCDD

DX9M_082ES23 Smooth(SG,1x2)

F4:Voltage SIR,EI+
 353.8576
 3.967e+006

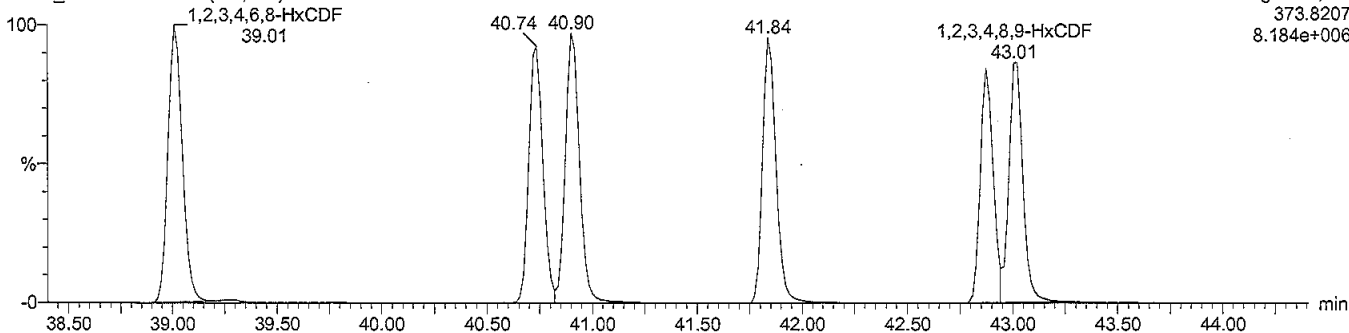


Name: DX9M_082ES23, Date: 09-Jul-2009, Time: 16:21:15, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

1,2,3,4,6,8-HxCDF

DX9M_082ES23 Smooth(SG,1x2)

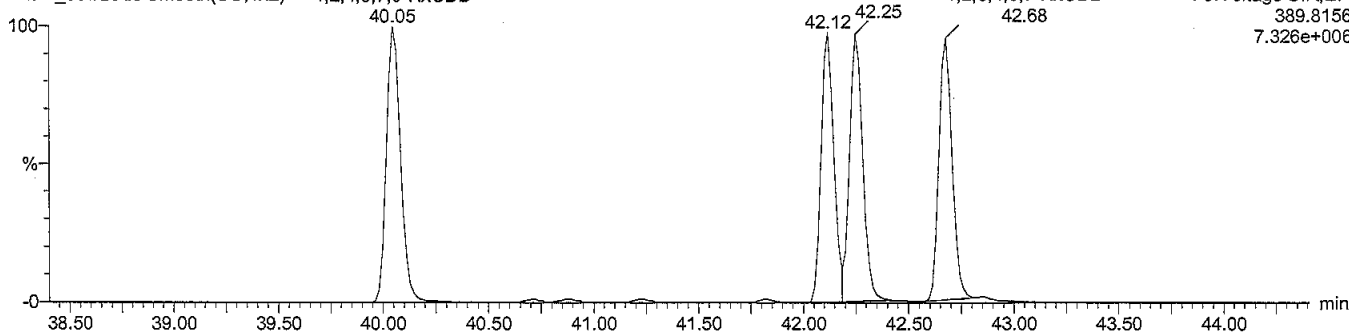
F5:Voltage SIR,EI+
373.8207
8.184e+006



1,2,4,6,7,9-HxCDD

DX9M_082ES23 Smooth(SG,1x2)

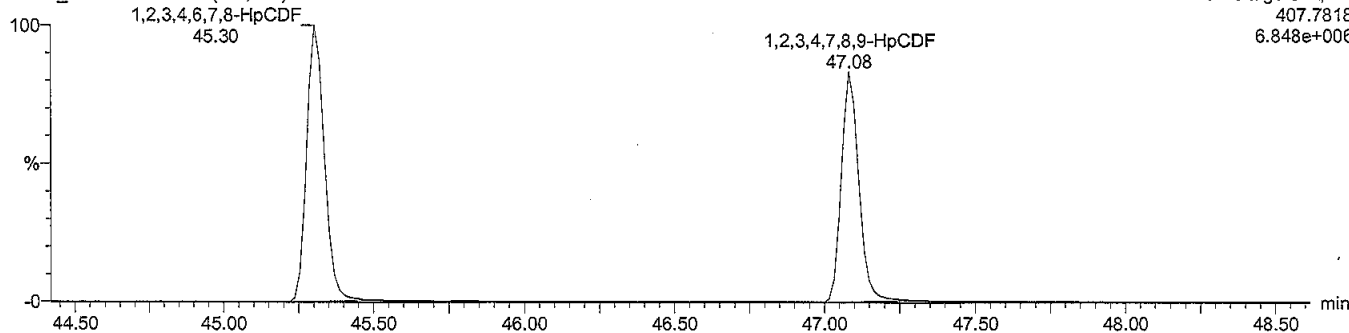
F5:Voltage SIR,EI+
389.8156
7.326e+006



1,2,3,4,6,7,8-HpCDF

DX9M_082ES23 Smooth(SG,1x2)

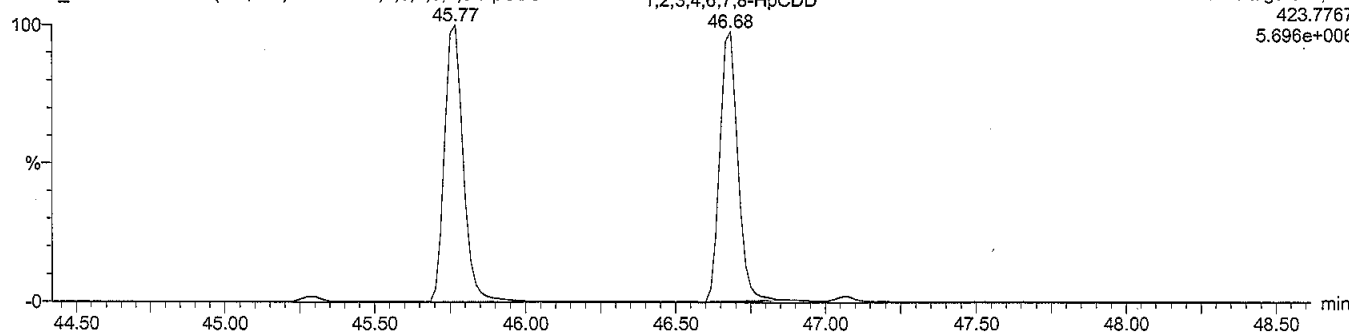
F6:Voltage SIR,EI+
407.7818
6.848e+006



1,2,3,4,6,7,9-HpCDD

DX9M_082ES23 Smooth(SG,1x2)

F6:Voltage SIR,EI+
423.7767
5.696e+006



```

Experiment : DX-DB225-1_03      Temps -source: 250      Tune :      Date -list : 09-Jul-2009
GC Program  : DX-DB225-1_02      -s resv: 160      List : RT   -liner : 08-Jul-2009
Column type : DB-225             -re_ent: 220      Check :     -septum: 08-Jul-2009
Serial #    : US5436814H+5M      -cap_1 : 220      LIMS :     -guard : 60cm 17-Jun-09
kPa         : 180                -cap_2 : 220      Logfile:    -column: COMB 09-JUL-09
Vol injected: 2.0uL                                     -t line: 31cm 24-Jun-09
PMT Voltage : 399
    
```

Page :

#	Data file	S	V	Sample Text	Comments	Acquisition Date/Time
1	DB93_146D	1	1	DX001A-RSN,,/02-13	1,,2.0uL	9-JUL-09 20:20:18
2	DB93_146D	2	2	DX036A-CAL,,/01	1,,2.0uL Cal	9-JUL-09 20:55:57
3	DB93_146D	3	3	DX036B-CAL,,/01	1,,2.0uL Cal	9-JUL-09 21:31:37
4	DB93_146D	4	4	DX036B-CAL,,/01	1,,2.0uL Cal	9-JUL-09 22:07:17
5	DB93_146D	5	5	DX036C-CAL,,/01	1,,2.0uL Cal	9-JUL-09 22:43:14
6	DB93_146D	6	6	DX036F-CAL,,/01	1,,2.0uL Cal	9-JUL-09 23:29:32
7	DB93_146D	7	7	DX036E-CAL,,/01	1,,2.0uL Cal	10-JUL-09 00:05:12
8	DB93_146D	8	8	DX036D-CAL,,/01-23A	1,,2.0uL Cal	10-JUL-09 00:40:51
9	DB93_146D	9	9	Toluene,,	1,,2.0uL	10-JUL-09 01:16:30
10	DB93_146D	10	10	Toluene,,	1,,2.0uL	10-JUL-09 01:52:08
11	DB93_146D	11	11	WG29227-101,,Blank	1,WG29227,2.0/20uL	10-JUL-09 02:27:48
12	DB93_146D	12	12	WG29263-101,,Blank	1,WG29263,2.0/20uL	10-JUL-09 03:03:26
13	DB93_146D	13	13	L12763-3,I,	1,WG28997,2.0/20uL	10-JUL-09 03:39:05
14	DB93_146D	14	14	L12920-1,,	1,WG29227,2.0/20uL	10-JUL-09 04:14:43
15	DB93_146D	15	15	L12960-1,,	1,WG29263,2.0/20uL	10-JUL-09 04:50:22
16	DB93_146D	16	16	L12960-2,,	1,WG29263,2.0/20uL	10-JUL-09 05:25:59
17	DB93_146D	17	17	L12960-3,,	1,WG29263,2.0/20uL	10-JUL-09 06:01:38
18	DB93_146D	18	18	L12763-5,NK,	1,WG28997,2.0/20uL	10-JUL-09 06:37:15
19	DB93_146D	19	19	DX036D-CAL,,/01-23A	1,,2.0uL Cal	10-JUL-09 07:15:18



Run: db93_146d-a Analyte: 1613b-DB-Cal: db93_146d-b

Results:

Version: V3.6 6--JAN-2000 17:51:42

Name	Mean	RRF	S. D.	%RSD	B93_146D S4	B93_146D S5	B93_146D S8	B93_146D S7	B93_146D S6					
					RRF#1	SD	RRF#2	SD	RRF#3	SD	RRF#4	SD	RRF#5	SD
2,3,7,8-TCDF	0.7842	0.029	3.69	%	0.78	-0.2	0.74	-1.5	0.79	0.3	0.79	0.2	0.82	1.2
13C-2,3,7,8-TCDF	1.4582	0.067	4.62	%	1.36	-1.5	1.44	-0.2	1.54	1.3	1.46	0.1	1.48	0.4
13C-1,2,3,4-TCDD	-	-	-	%	-	-	-	-	-	-	-	-	-	-
Hexa DPE	-	-	-	%	-	-	-	-	-	-	-	-	-	-
Tetra Lock	-	-	-	%	-	-	-	-	-	-	-	-	-	-

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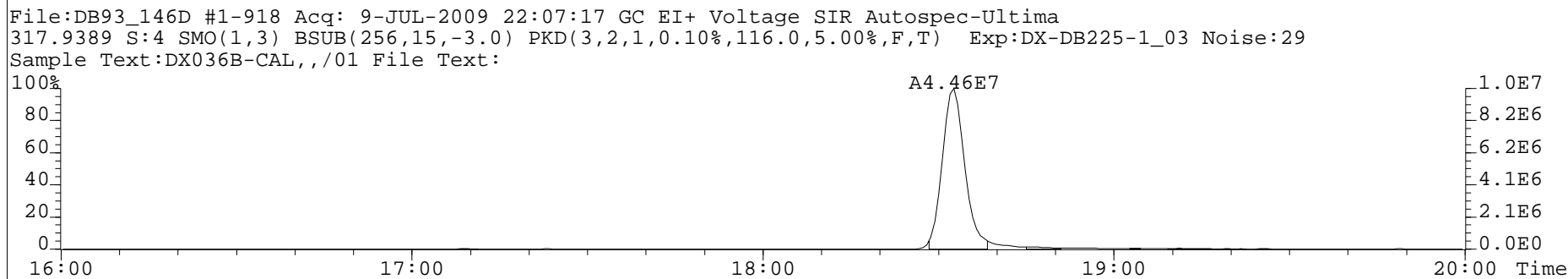
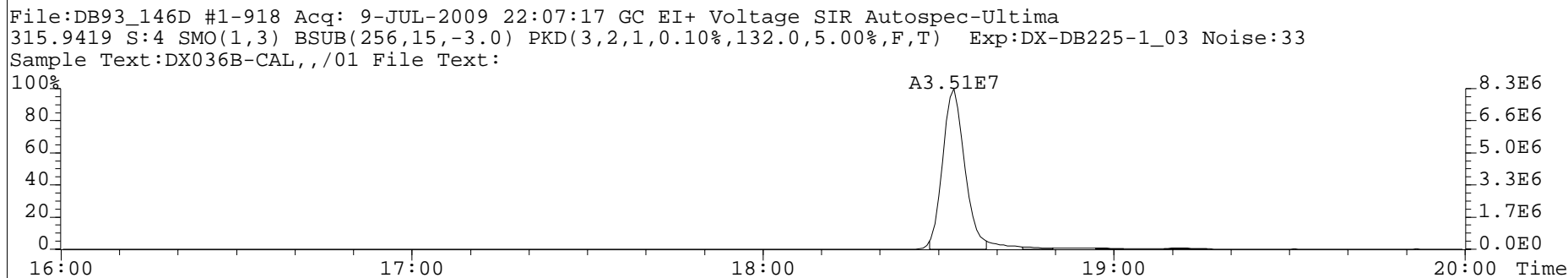
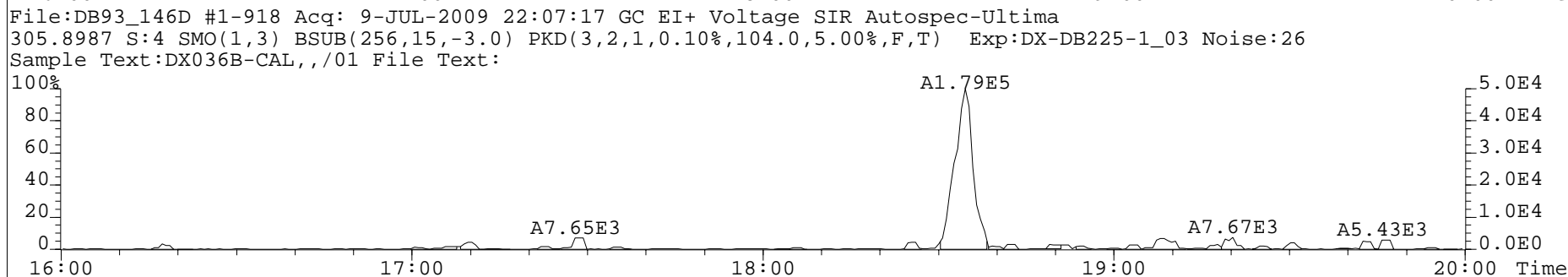
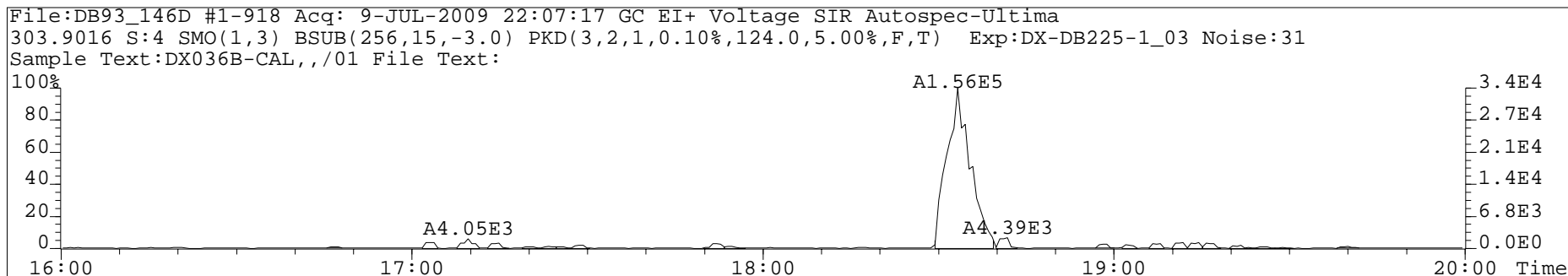


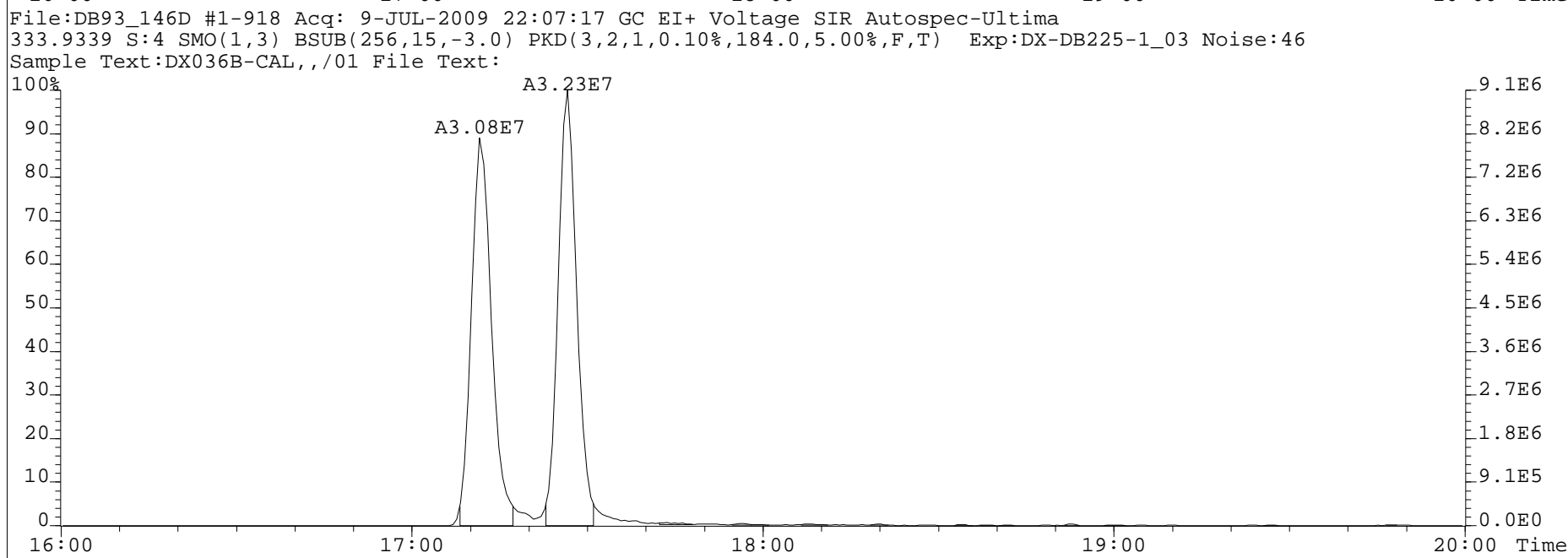
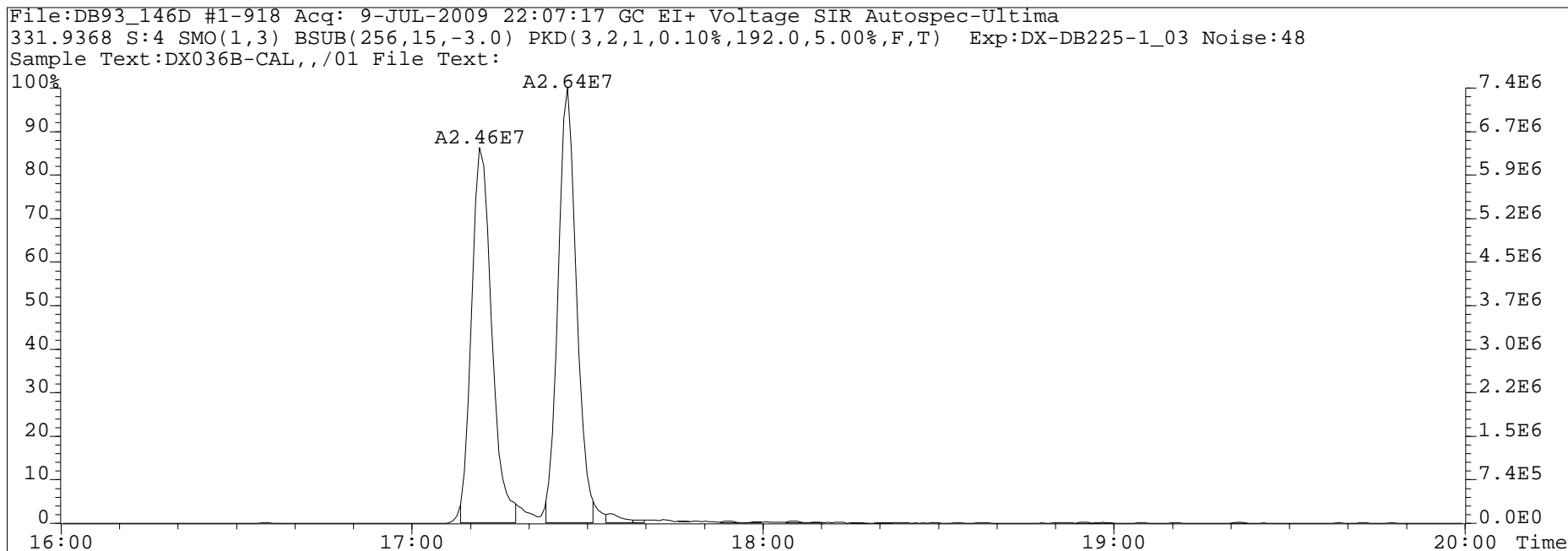
Run #2 Filename DB93_146D S: 4 I: 1 Acquired: 9-JUL-09 22:07:17 Processed: 10-JUL-09 08:13:59
 Run: db93_146d> Analyte: 1613b-DB-> Cal: db93_146d> Results: Version: V3.6 6-JAN-2000 17:51:42
 Sample text: DX036B-CAL,,/01 Comments: 1,,2.0uL Cal F1: 1.00 F2: 1.00

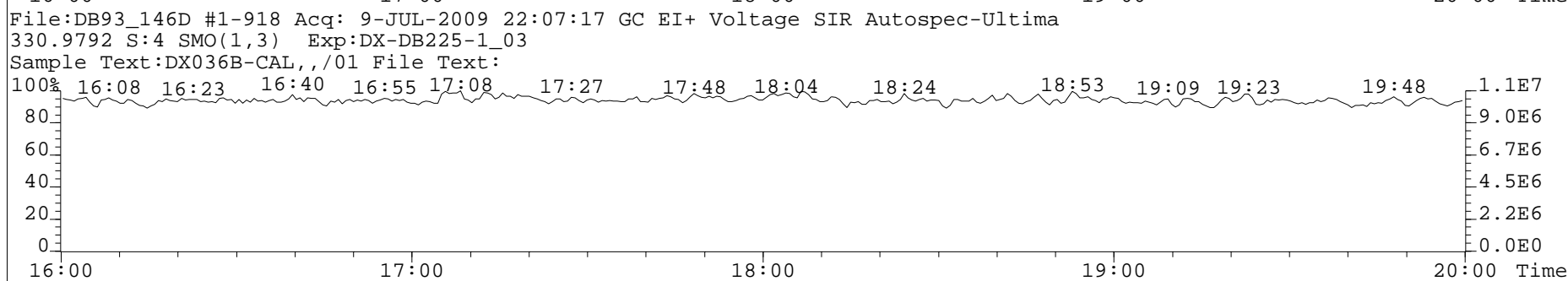
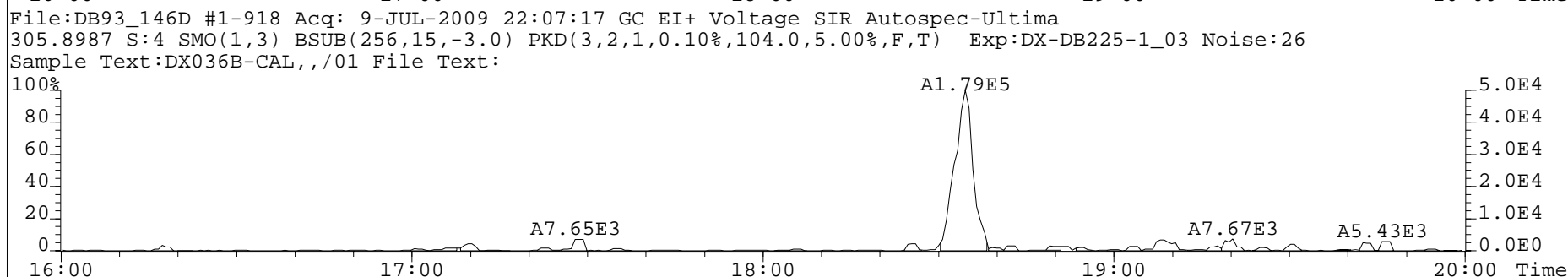
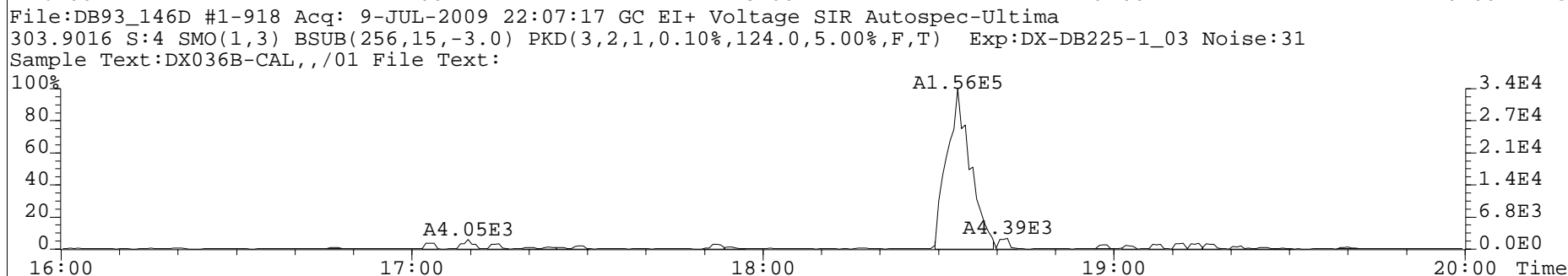
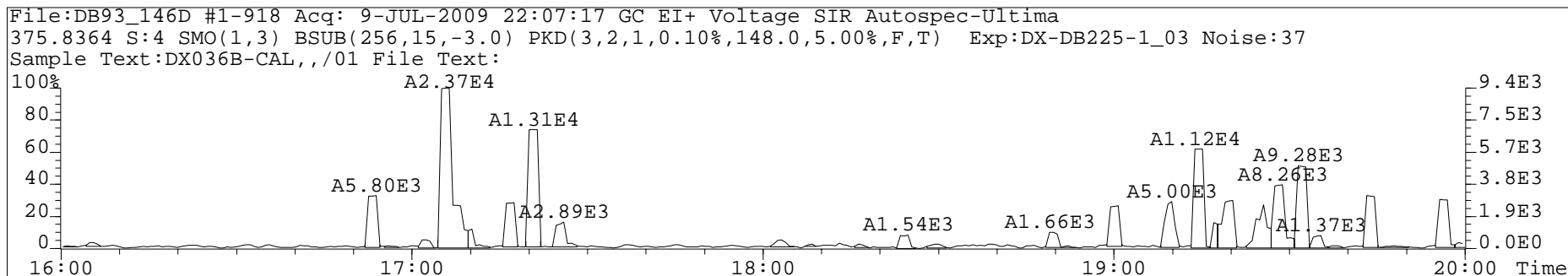
Typ	Name	Amount	Resp	RA	RT	RF	RRF	Modified?
1	Unk	2,3,7,8-TCDF	0.54	3.35e+05	0.87 y	18:34	-	0.7788 y n
2	IS/RT	13C-2,3,7,8-TCDF	100.00	7.97e+07	0.79 y	18:33	-	1.3585 y n
3	RS	13C-1,2,3,4-TCDD	100.00	5.87e+07	0.82 y	17:27	5.87e+05	- n n
4	Tot	Hexa DPE	0.00	*		NotF>	Div0	- n n
5	Tot	Tetra Lock	0.00	-		-	-	- n n

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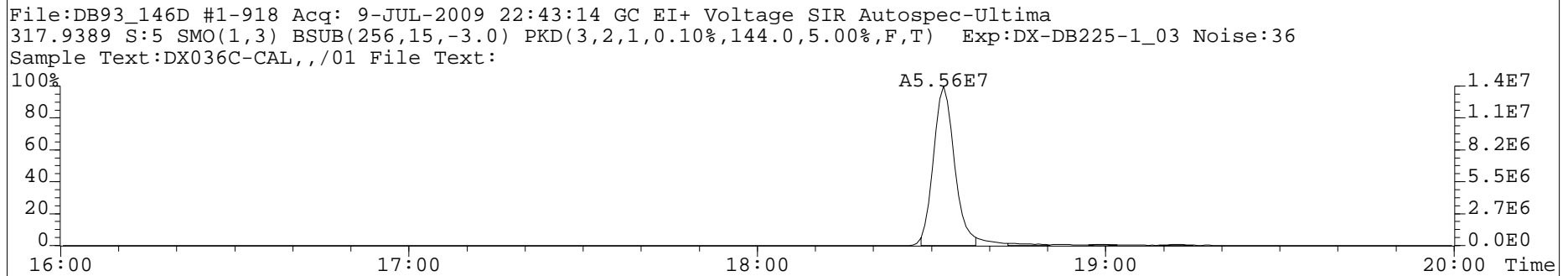
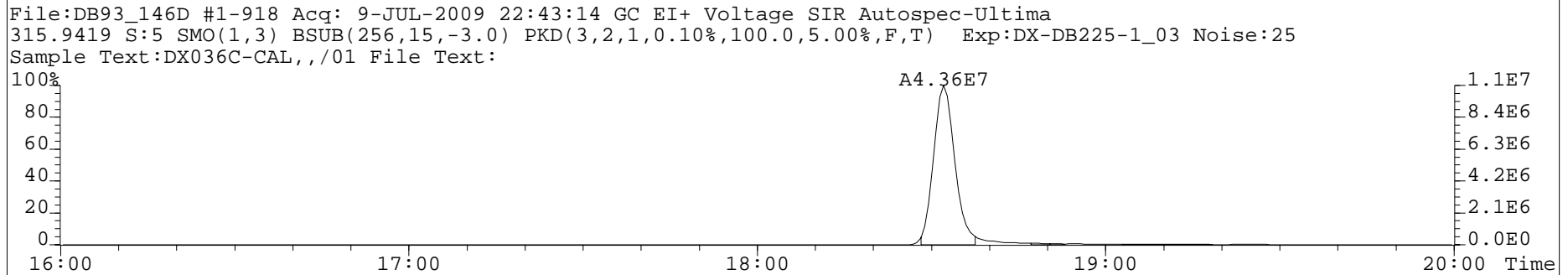
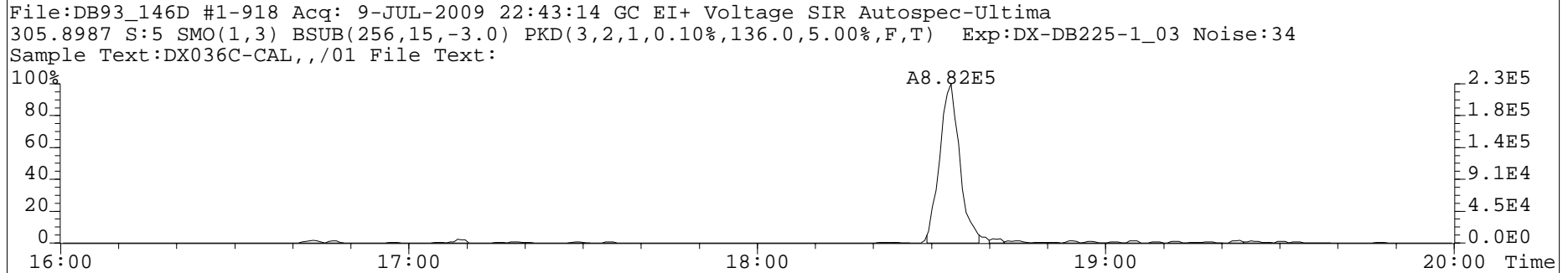
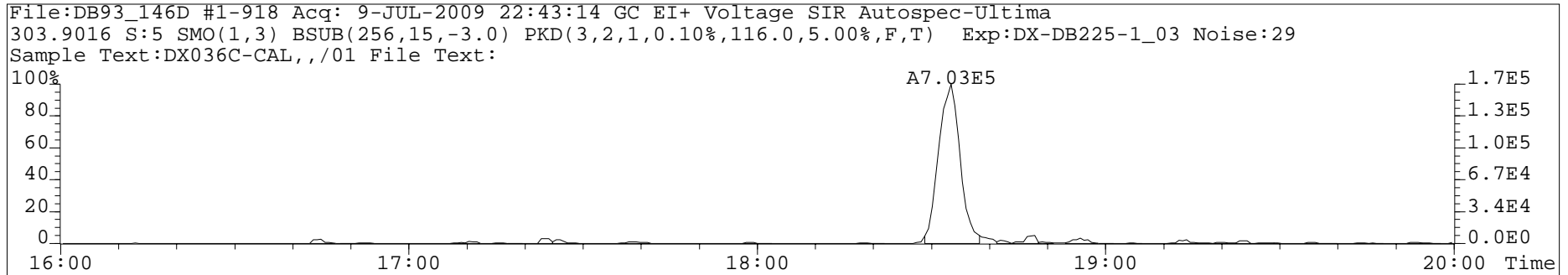


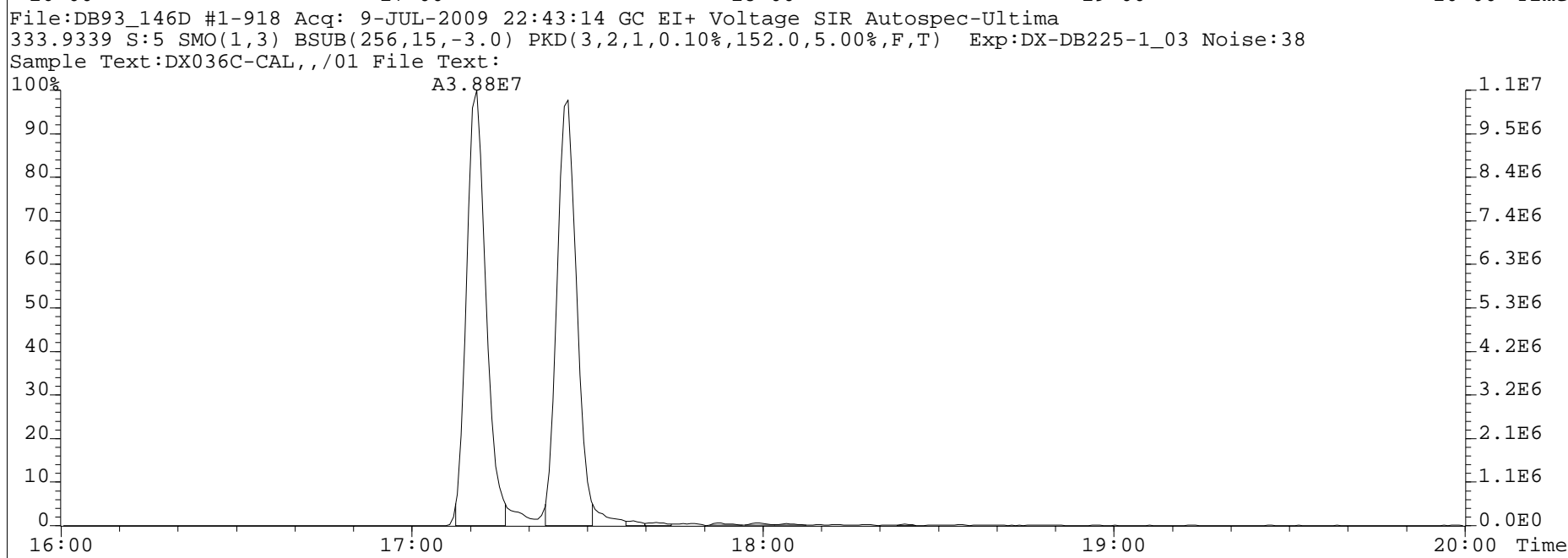
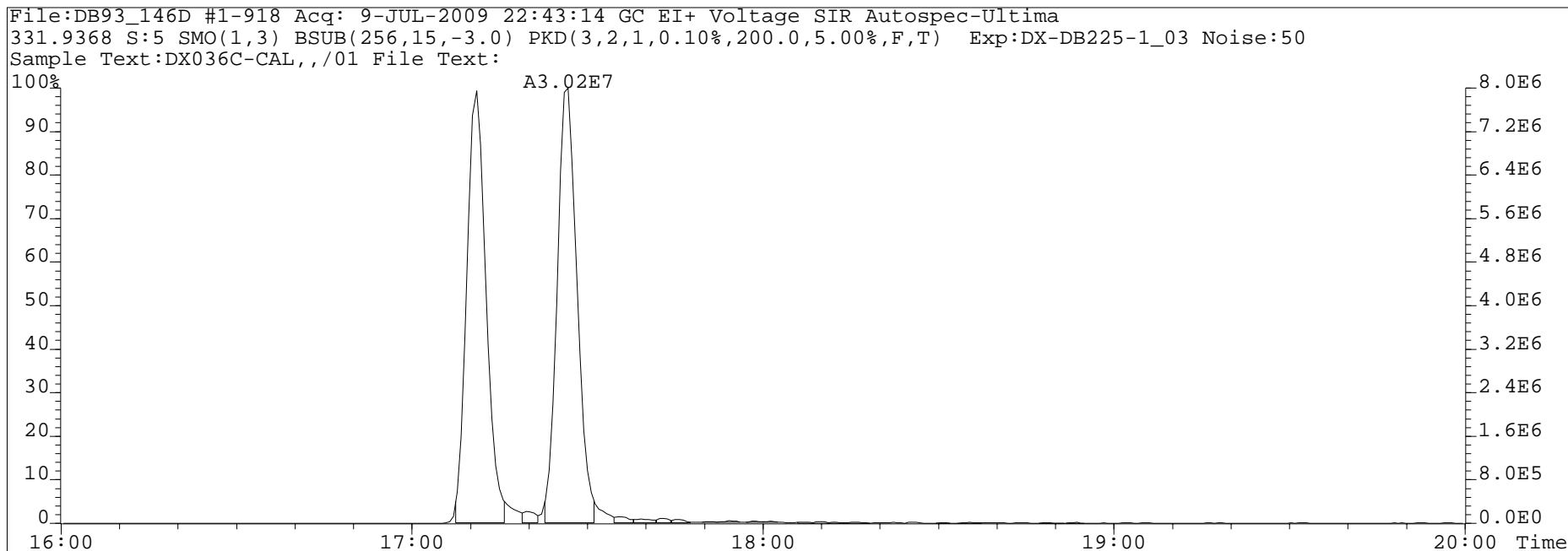
Run #3 Filename DB93_146D S: 5 I: 1 Acquired: 9-JUL-09 22:43:14 Processed: 10-JUL-09 08:13:59
 Run: db93_146d» Analyte: 1613b-DB-» Cal: db93_146d» Results: Version: V3.6 6-JAN-2000 17:51:42
 Sample text: DX036C-CAL,,/01 Comments: 1,,2.0uL Cal F1: 4.00 F2: 1.00

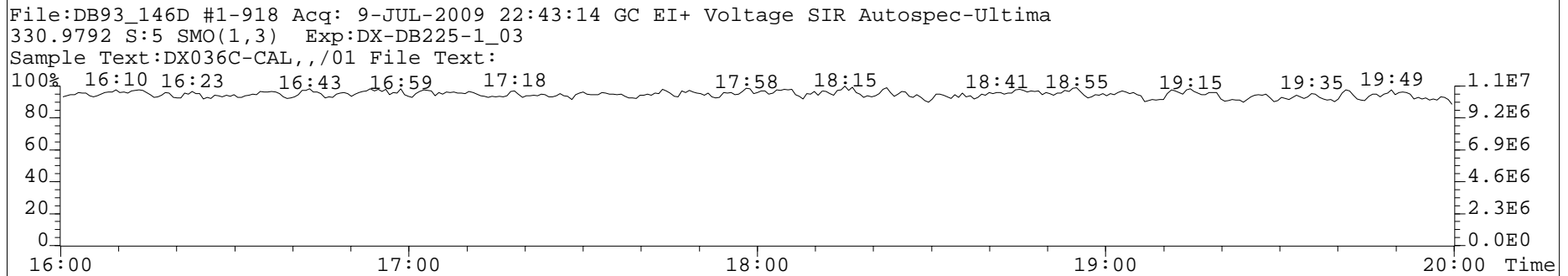
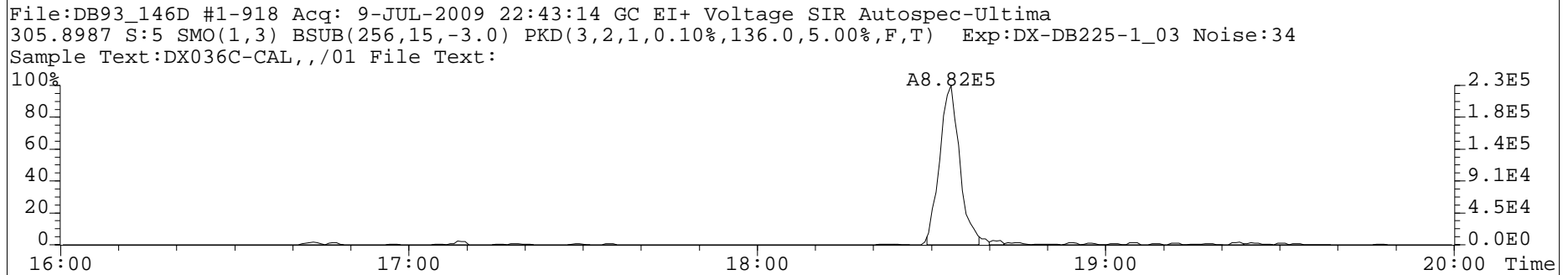
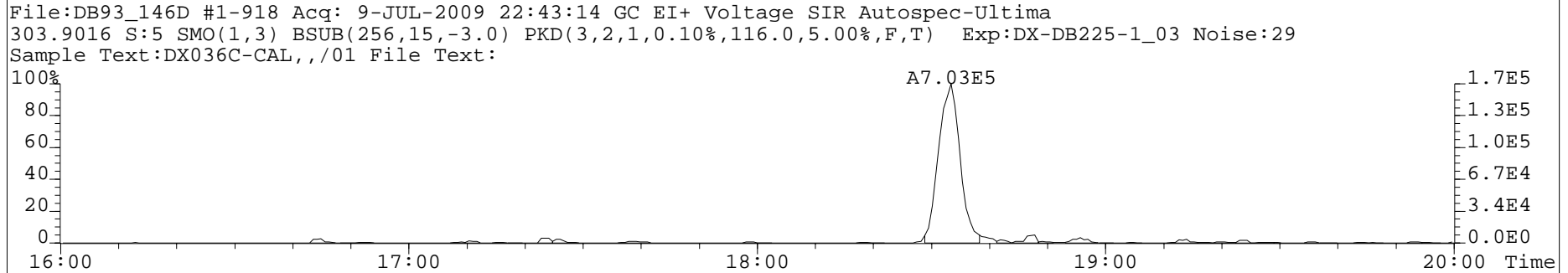
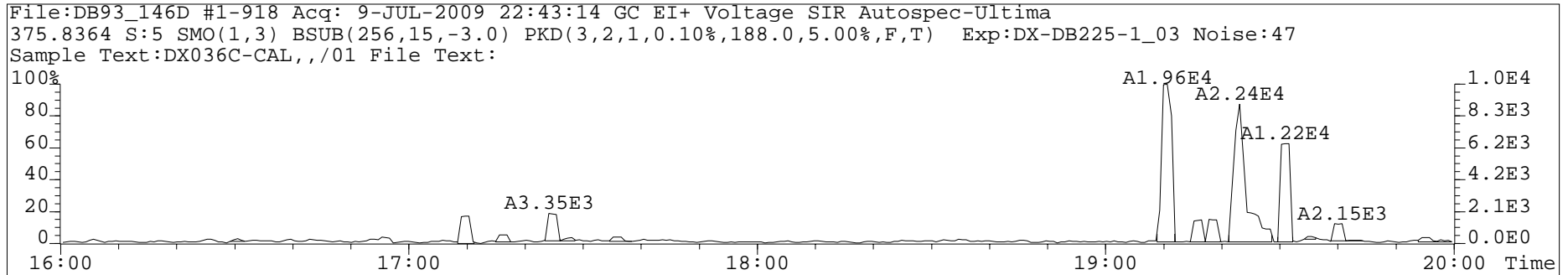
Typ	Name	Amount	Resp	RA	RT	RF	RRF	Modified?
1	Unk	2,3,7,8-TCDF	2.16	1.59e+06	0.80 y	18:33	-	0.7401 y n
2	IS/RT	13C-2,3,7,8-TCDF	100.00	9.92e+07	0.78 y	18:32	-	1.4414 y n
3	RS	13C-1,2,3,4-TCDD	100.00	6.88e+07	0.78 y	17:27	6.88e+05	- n n
4	Tot	Hexa DPE	0.00	*		NotF»	Div0	- n n
5	Tot	Tetra Lock	0.00	-		-	-	- n n

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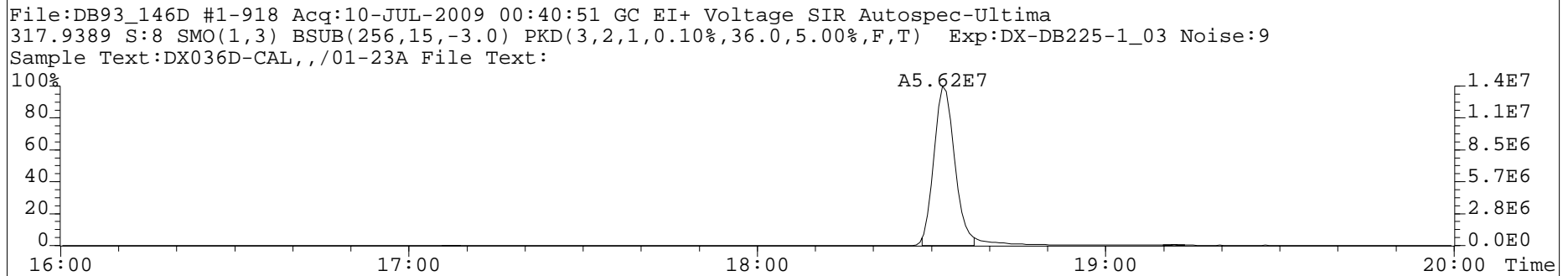
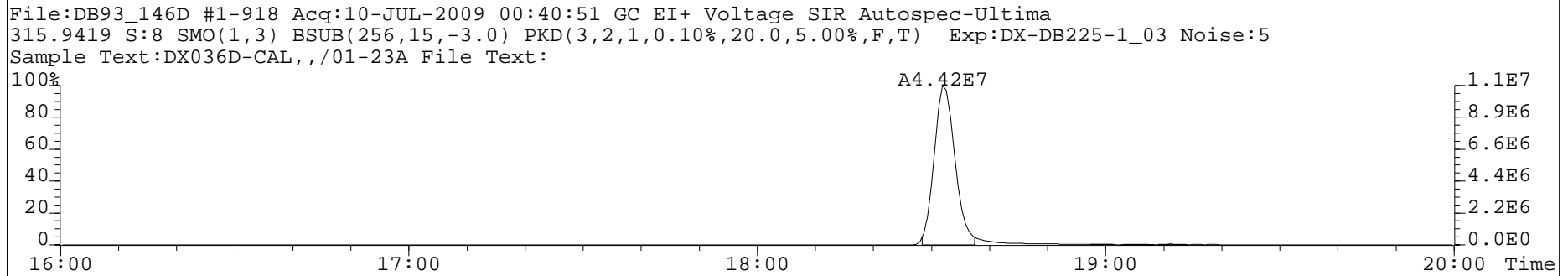
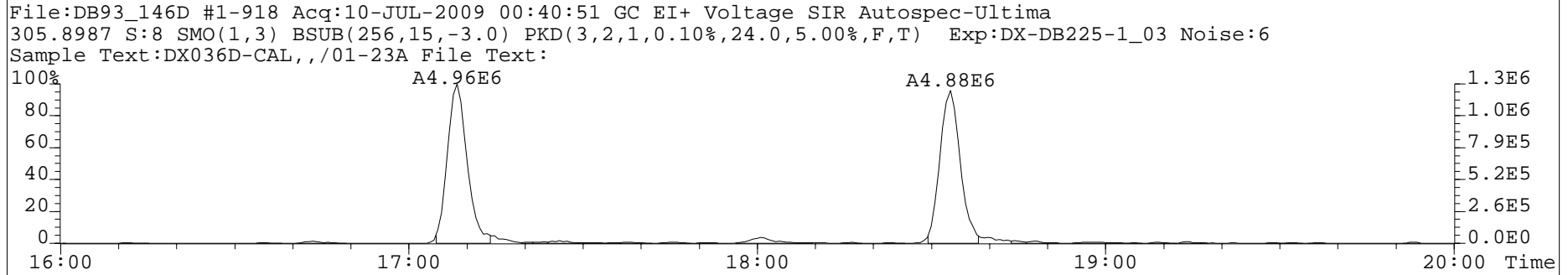
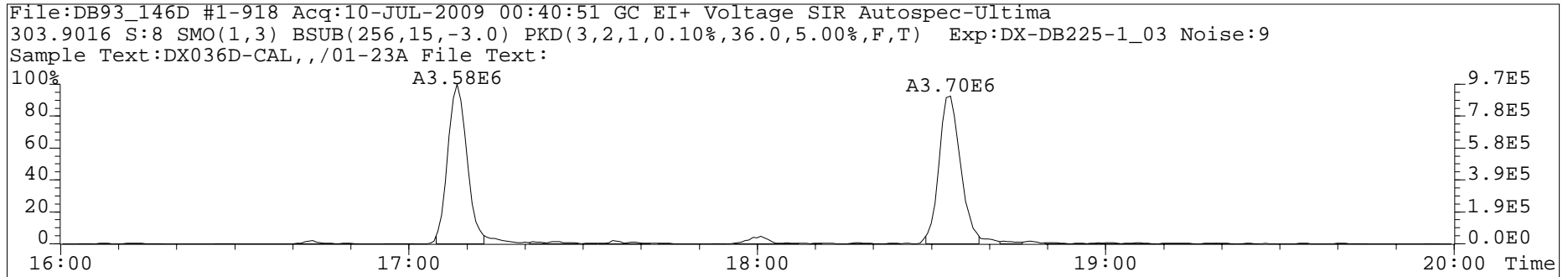


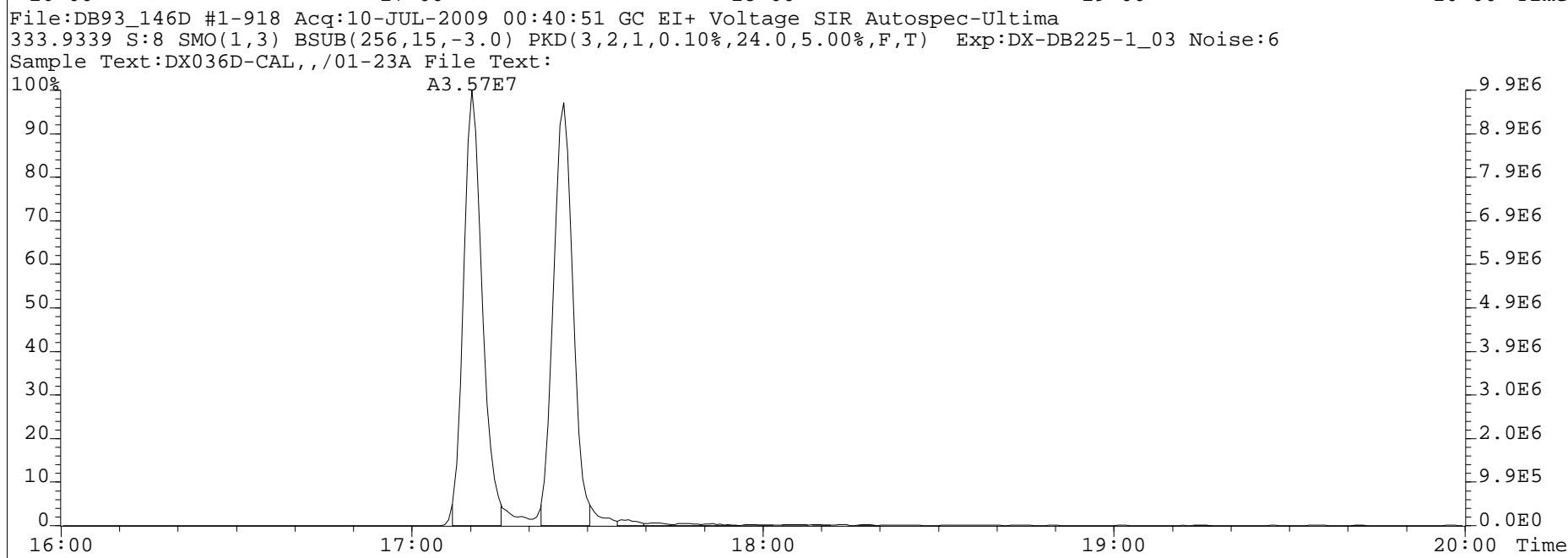
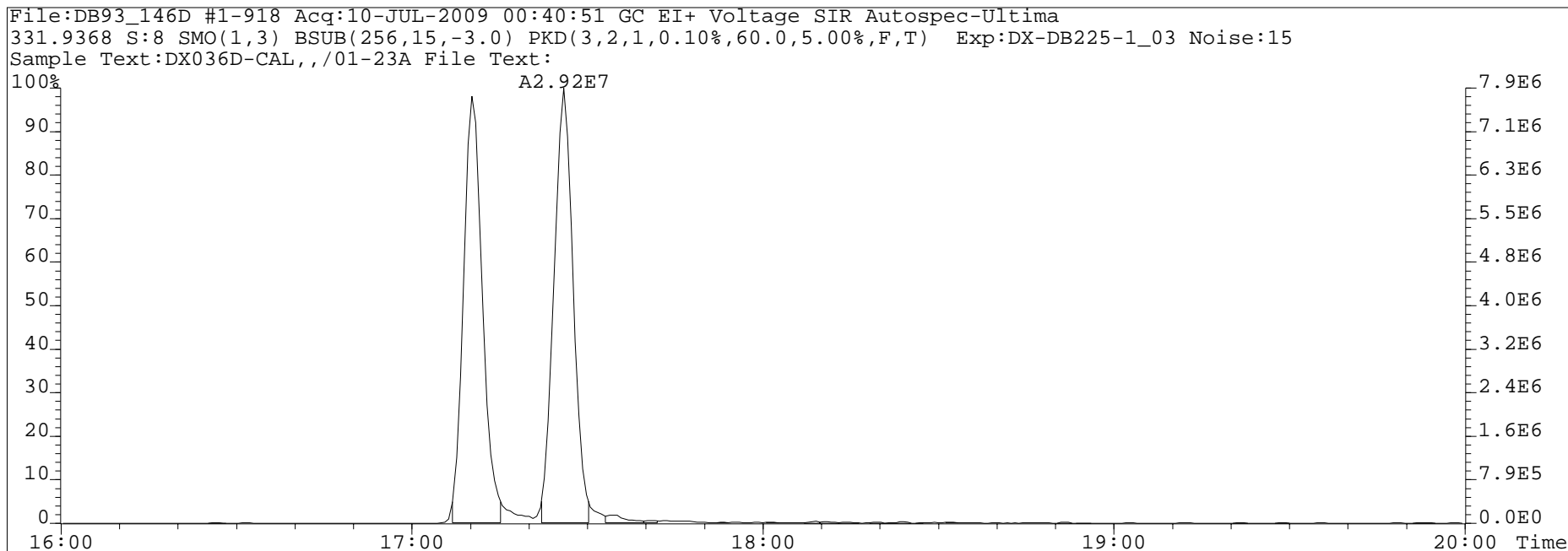
Run #4 Filename DB93_146D S: 8 I: 1 Acquired: 10-JUL-09 00:40:51 Processed: 10-JUL-09 08:14:00
 Run: db93_146d> Analyte: 1613b-DB-> Cal: db93_146d> Results: Version: V3.6 6-JAN-2000 17:51:42
 Sample text: DX036D-CAL,,/01-23A Comments: 1,,2.0uL Cal F1: 20.00 F2: 1.00

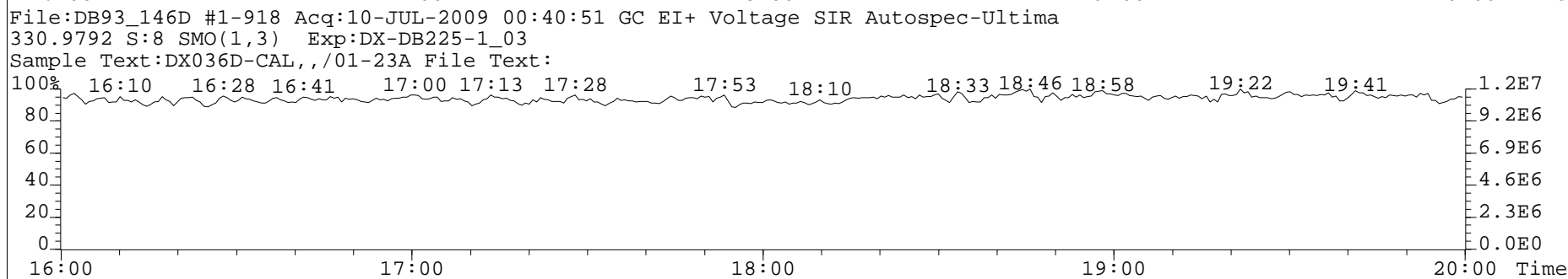
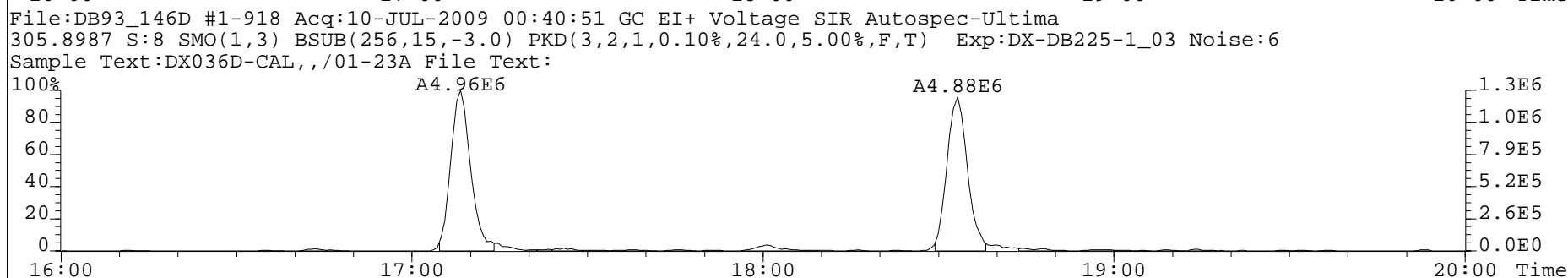
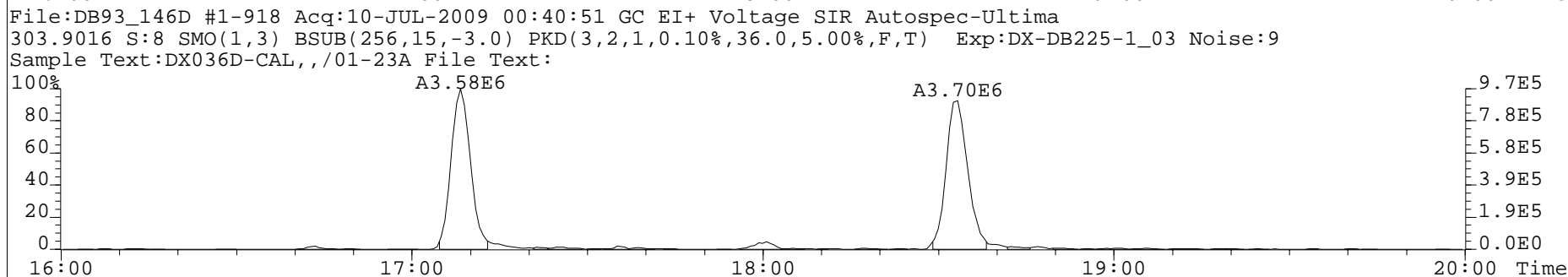
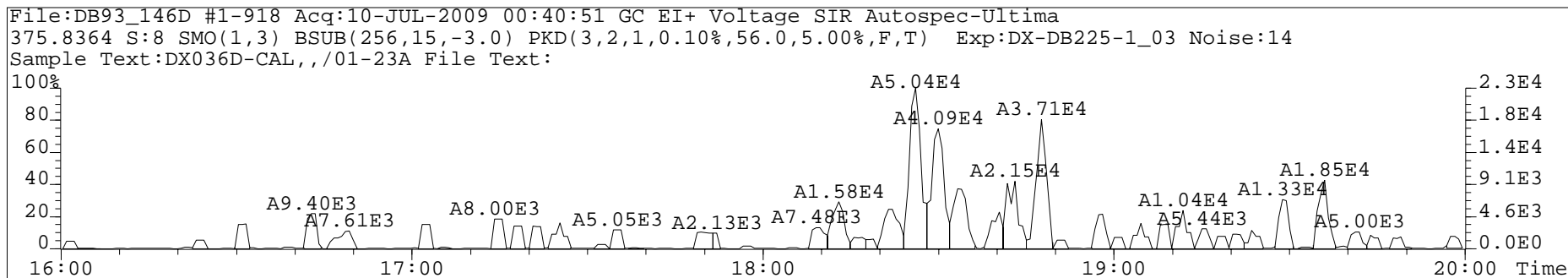
Typ	Name	Amount	Resp	RA	RT	RF	RRF	Modified?
1	Unk	2,3,7,8-TCDF	10.80	8.58e+06	0.76 y	18:33	-	0.7916 y n
2	IS/RT	13C-2,3,7,8-TCDF	100.00	1.00e+08	0.78 y	18:32	-	1.5434 y n
3	RS	13C-1,2,3,4-TCDD	100.00	6.51e+07	0.81 y	17:26	6.51e+05	- n n
4	Tot	Hexa DPE	0.00	*		NotF>	Div0	- n n
5	Tot	Tetra Lock	0.00	-		-	-	- n n

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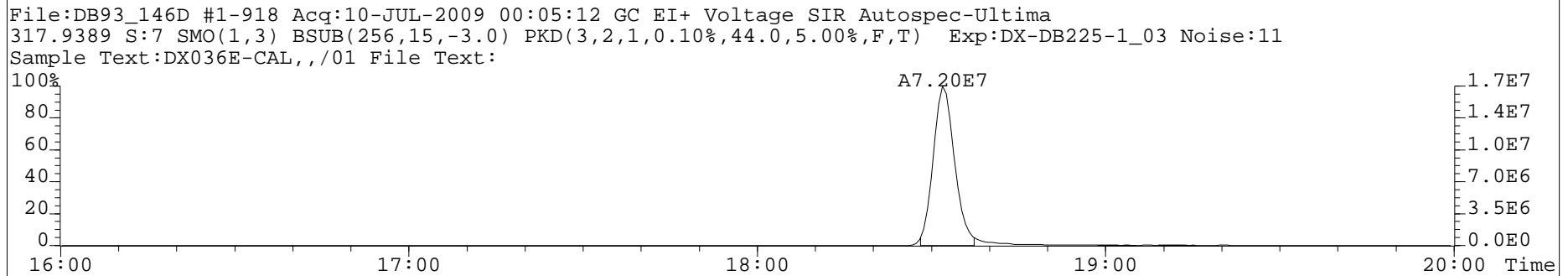
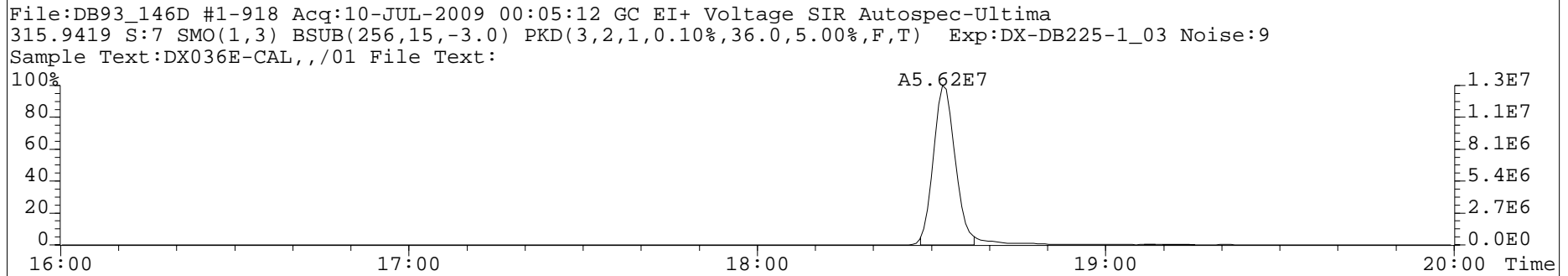
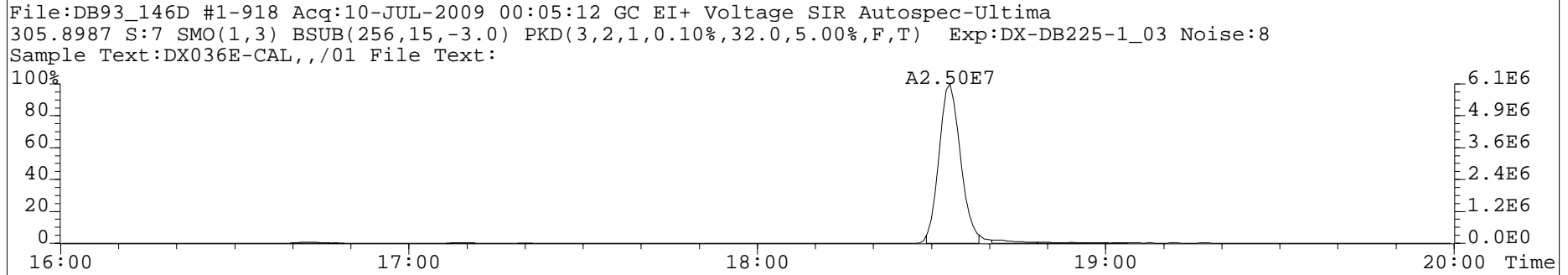
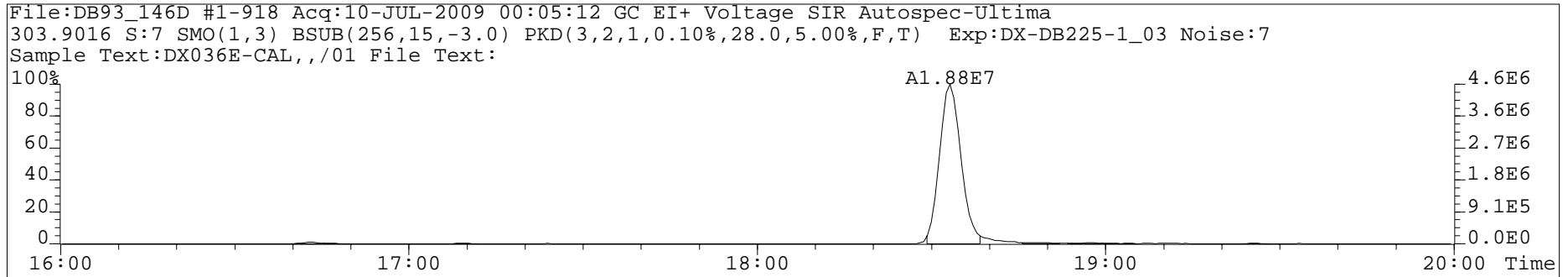


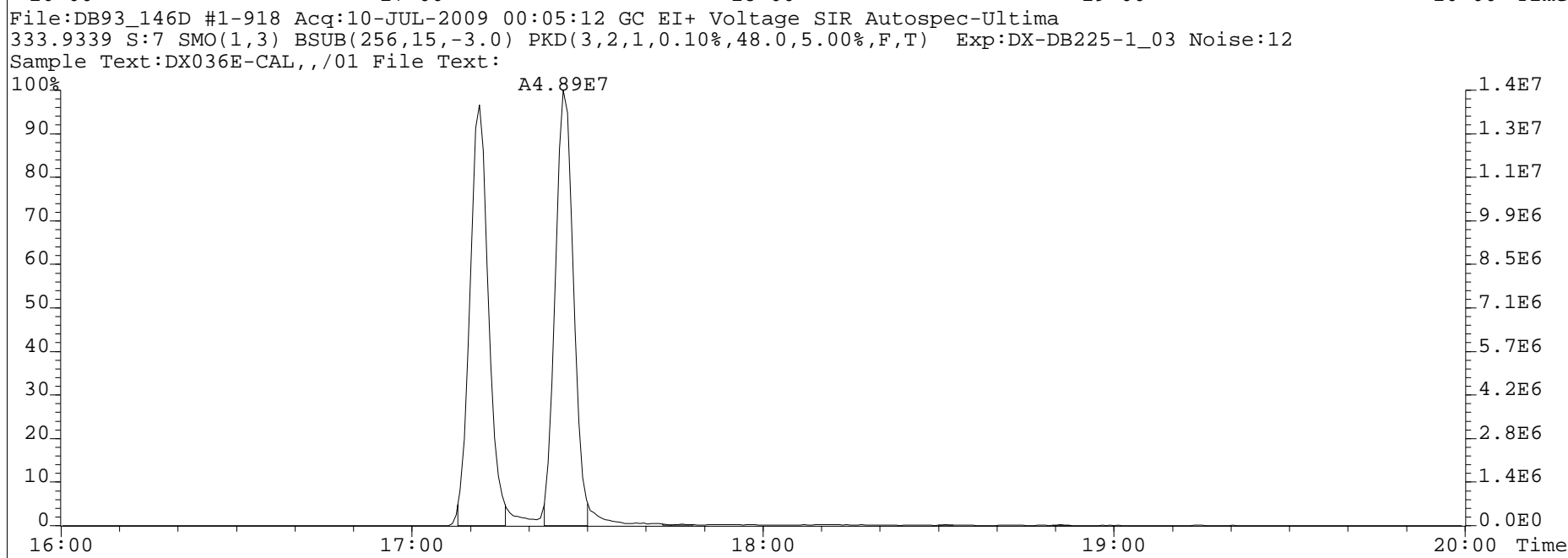
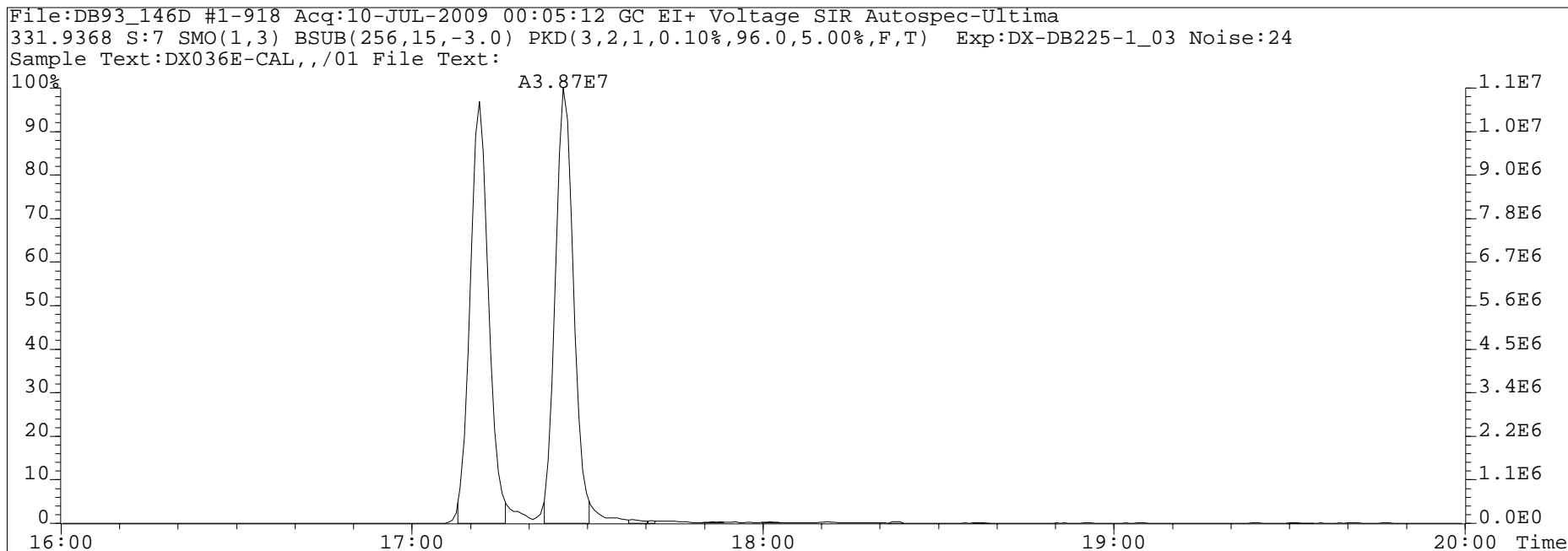
Run #5 Filename DB93_146D S: 7 I: 1 Acquired: 10-JUL-09 00:05:12 Processed: 10-JUL-09 08:14:00
 Run: db93_146d» Analyte: 1613b-DB-» Cal: db93_146d» Results: Version: V3.6 6-JAN-2000 17:51:42
 Sample text: DX036E-CAL,,/01 Comments: 1,,2.0uL Cal F1: 80.00 F2: 1.00

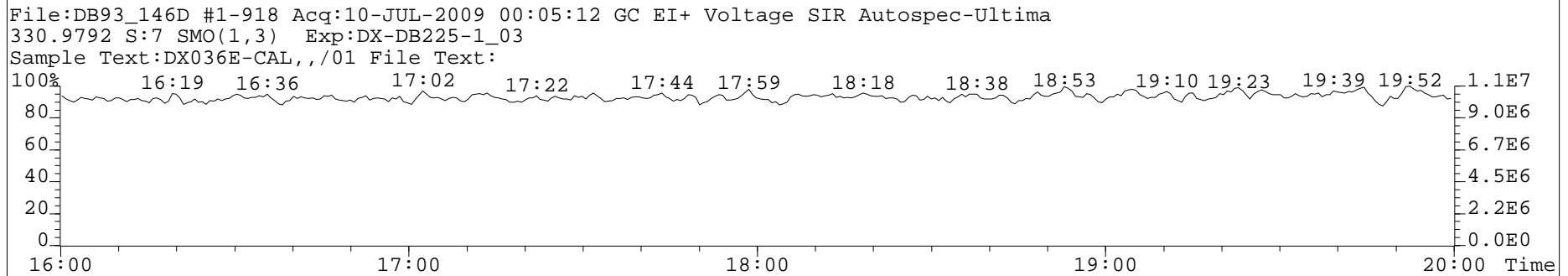
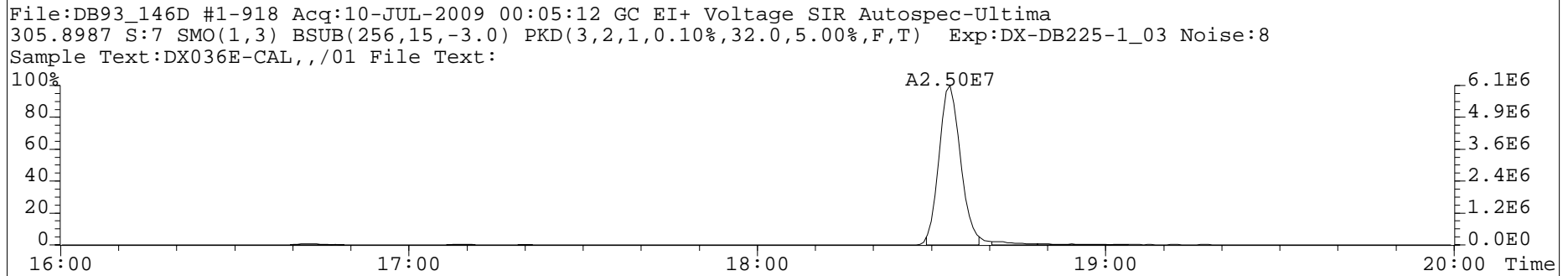
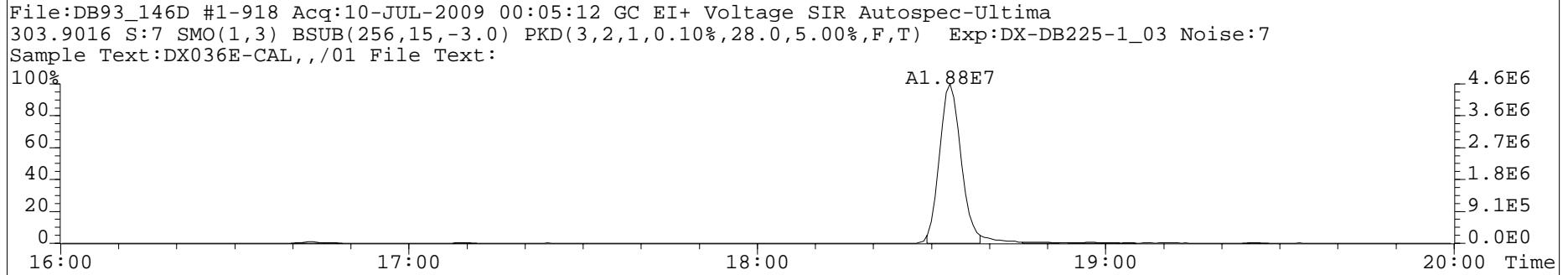
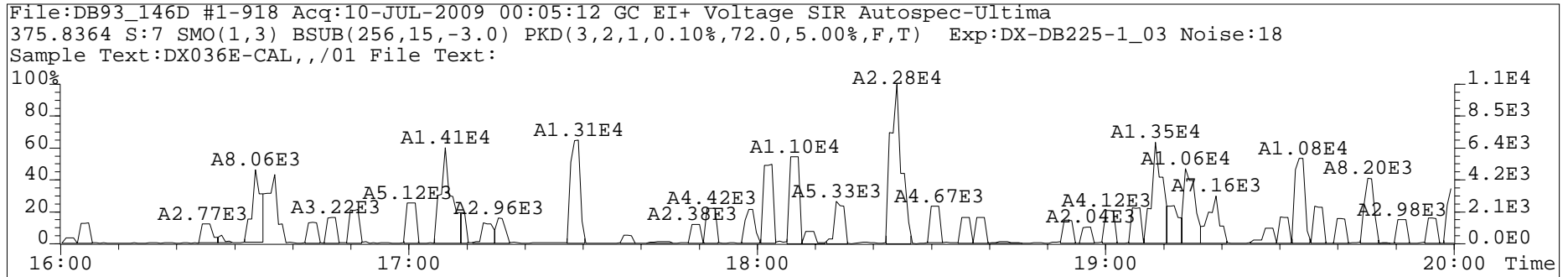
Typ	Name	Amount	Resp	RA	RT	RF	RRF	Modified?
1	Unk	2,3,7,8-TCDF	43.20	4.38e+07	0.75 y	18:33	-	0.7908 y n
2	IS/RT	13C-2,3,7,8-TCDF	100.00	1.28e+08	0.78 y	18:32	-	1.4640 y n
3	RS	13C-1,2,3,4-TCDD	100.00	8.76e+07	0.79 y	17:26	8.76e+05	- n n
4	Tot	Hexa DPE	0.00	*		NotF»	Div0	- n ñ
5	Tot	Tetra Lock	0.00	-		-	-	- n n

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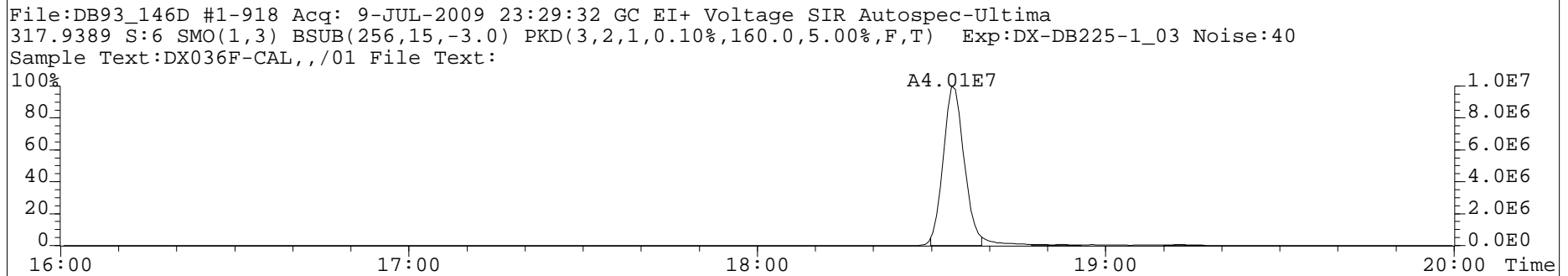
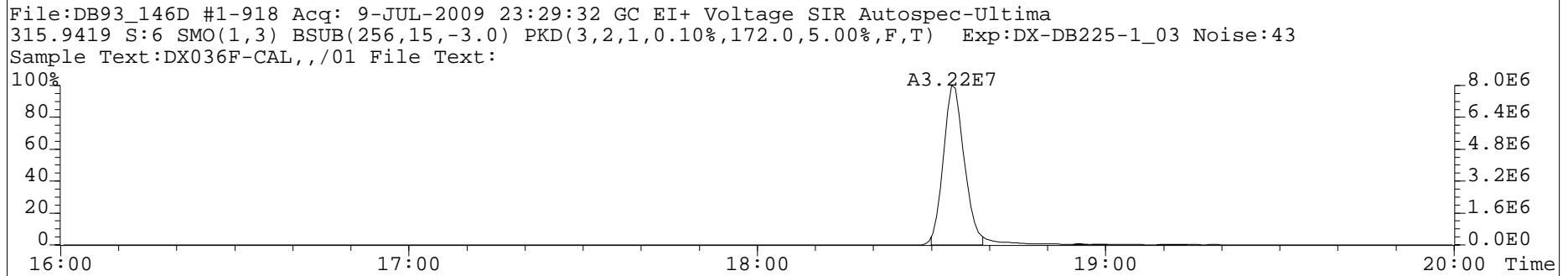
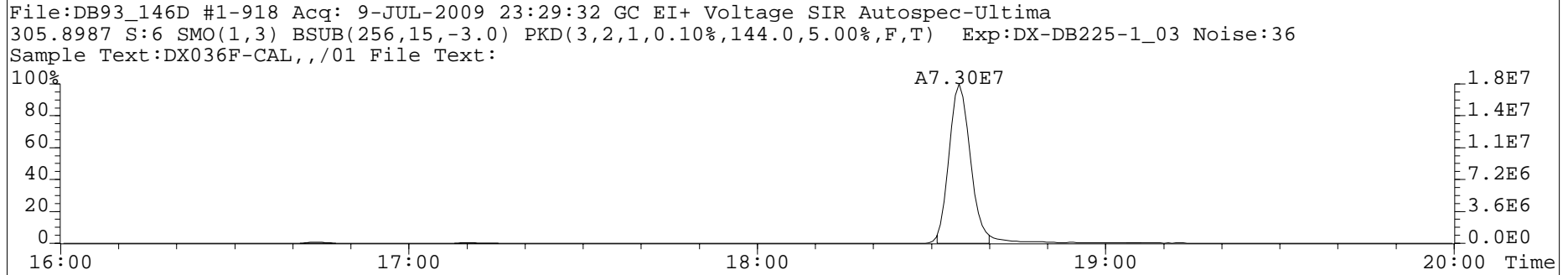
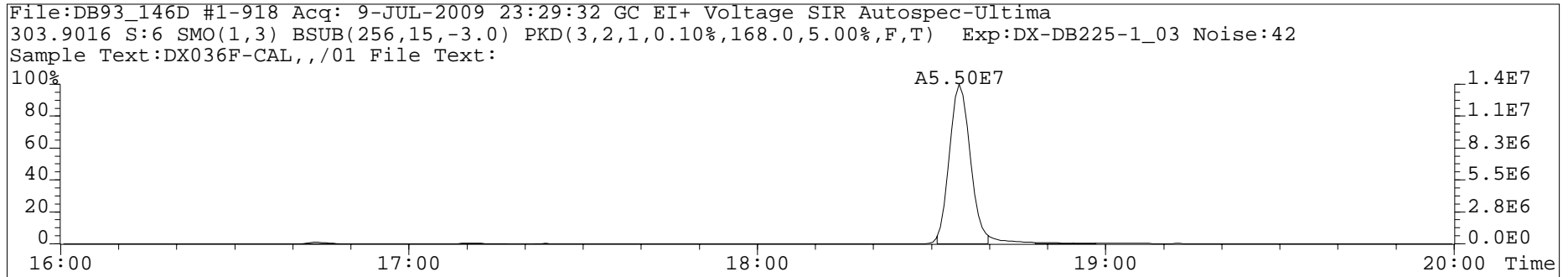


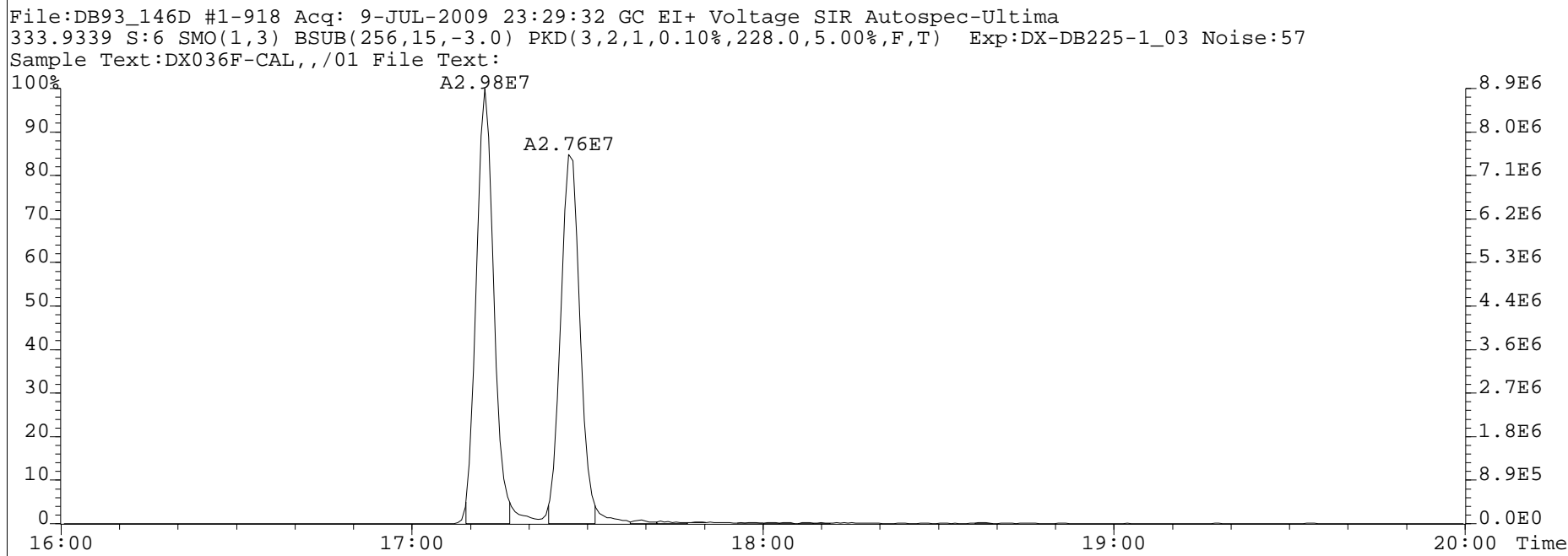
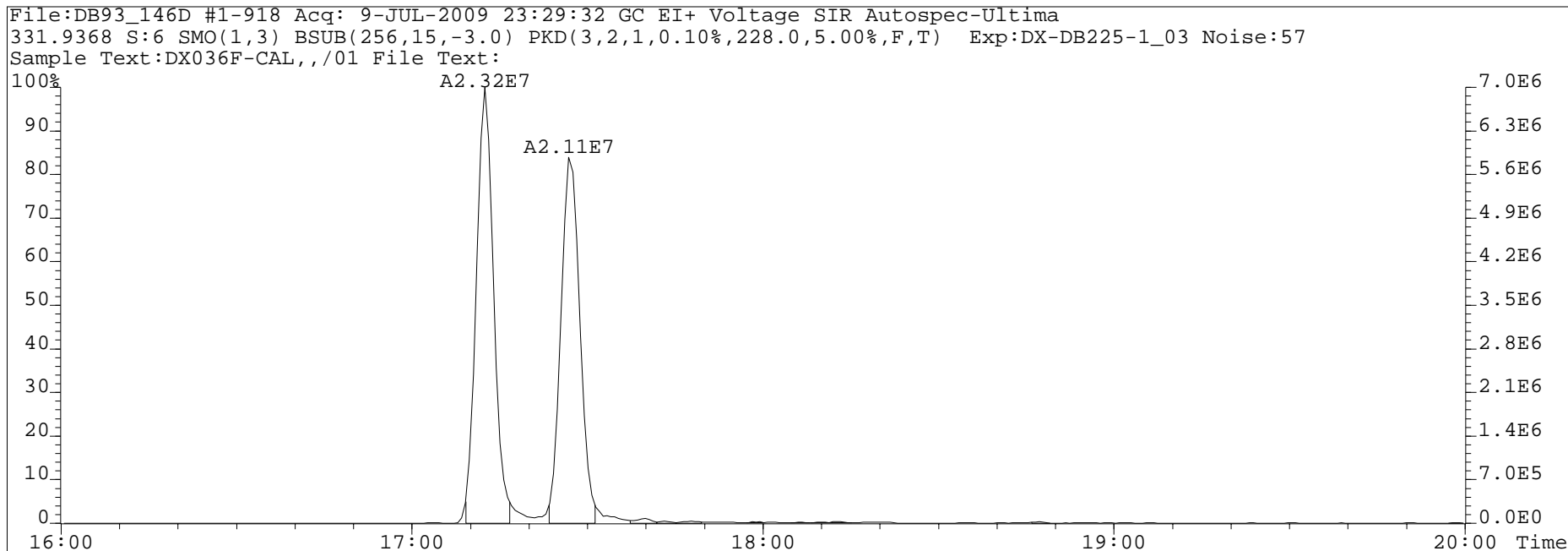
Run #6 Filename DB93_146D S: 6 I: 1 Acquired: 9-JUL-09 23:29:32 Processed: 10-JUL-09 08:14:00
 Run: db93_146d» Analyte: 1613b-DB-» Cal: db93_146d» Results: Version: V3.6 6-JAN-2000 17:51:42
 Sample text: DX036F-CAL,,/01 Comments: 1,,2.0uL Cal F1: 400.00 F2: 1.00

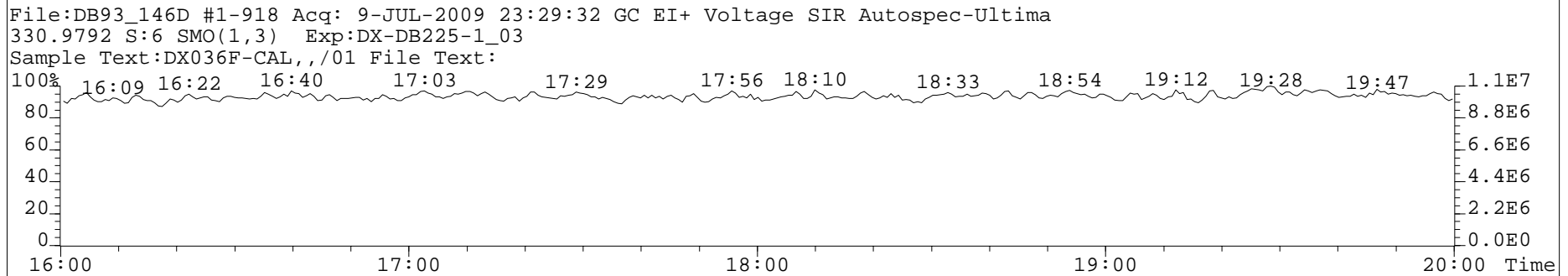
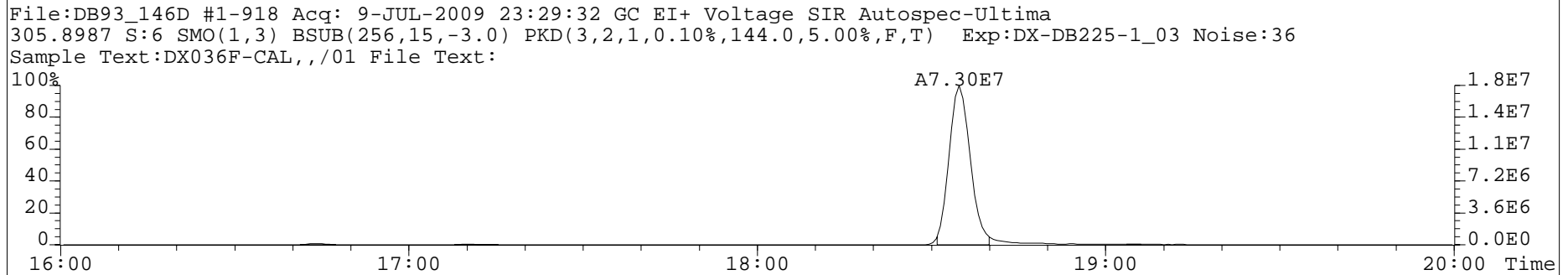
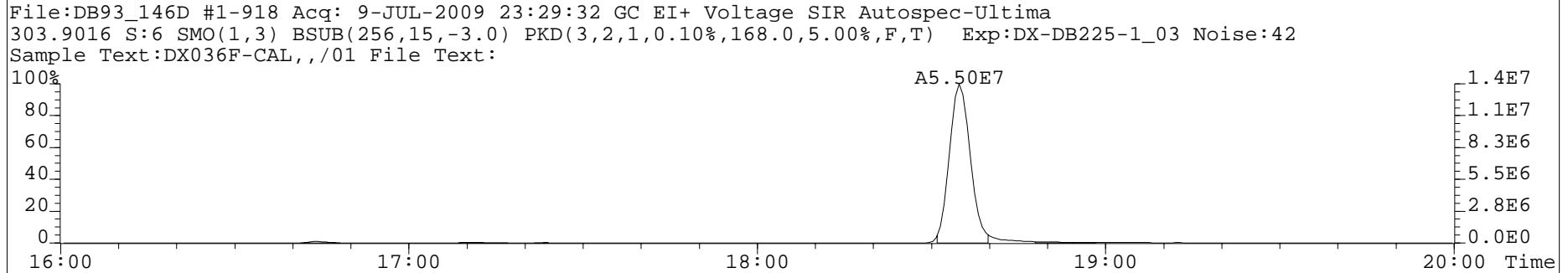
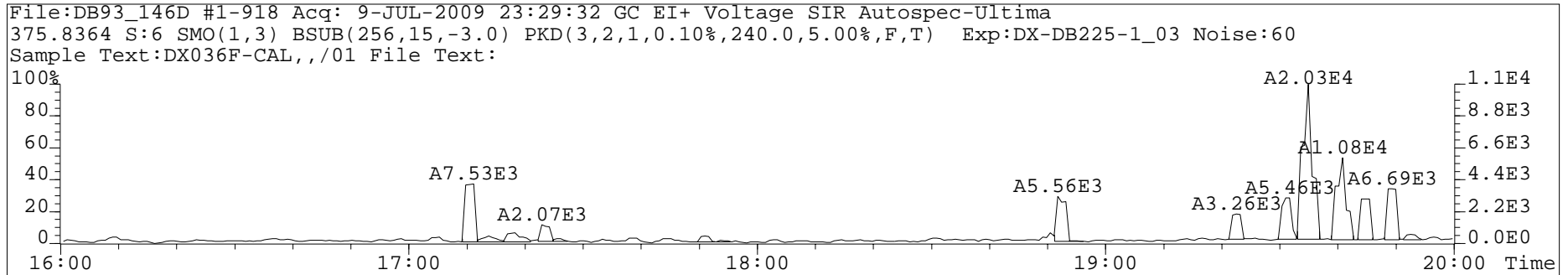
Typ	Name	Amount	Resp	RA	RT	RF	RRF	Modified?
1	Unk	2,3,7,8-TCDF	216.00	1.28e+08	0.75 y	18:35	-	0.8199 y n
2	IS/RT	13C-2,3,7,8-TCDF	100.00	7.23e+07	0.80 y	18:34	-	1.4836 y n
3	RS	13C-1,2,3,4-TCDD	100.00	4.87e+07	0.77 y	17:27	4.87e+05	- n n
4	Tot	Hexa DPE	0.00	*		NotF»	Div0	- n n
5	Tot	Tetra Lock	0.00	-		-	-	- n n

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Axys Analytical Services, Ltd.

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\log.mdb 21 Nov 2008 11:39:44
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Compound name: -

#	Name	ID	Sample Text	Acq Date	Acq Time
1	DX9M_083S1	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	08:18:53
2	DX9M_083S2	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	09:25:02
3	DX9M_083S3	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	10:17:19
4	DX9M_083S4	WG29271-101,I2,Blank	1,WG29271,1.0/20uL	10-Jul-09	11:12:16
5	DX9M_083S5	L12912-1,I	1,WG29271,1.0/20uL	10-Jul-09	12:07:12
6	DX9M_083S6	L12912-3,I	1,WG29271,1.0/20uL	10-Jul-09	13:02:08
7	DX9M_083S7	L12912-4,I	1,WG29271,1.0/20uL	10-Jul-09	13:57:05
8	DX9M_083S8	L12912-5,I	1,WG29271,1.0/20uL	10-Jul-09	14:52:03
9	DX9M_083S9	L12912-6,I	1,WG29271,1.0/20uL	10-Jul-09	15:46:59
10	DX9M_083S10	L12912-7,,	1,WG29271,1.0/20uL	10-Jul-09	16:41:56
11	DX9M_083S11	L12912-8,,	1,WG29271,1.0/20uL	10-Jul-09	17:36:52
12	DX9M_083S12	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	18:31:49
13	DX9M_083S13	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	19:36:13
14	DX9M_083S14	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	10-Jul-09	20:37:20
15	DX9M_083S15	WG29103-102,I,SPM	1,WG29103,1.0/20uL	10-Jul-09	21:30:58
16	DX9M_083S16	WG29103-102,I2,SPM	1,WG29103,1.0/20uL	10-Jul-09	22:28:44
17	DX9M_083S17	DX020B-SUR,,/06	1,,1.0uL Inst Blank	10-Jul-09	23:20:46
18	DX9M_083S18	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	00:15:46
19	DX9M_083S19	WG29103-101,I,Blank	1,WG29103,1.0/20uL	11-Jul-09	01:10:43
20	DX9M_083S20	L12442-1,,	1,WG29103,1.0/20uL	11-Jul-09	02:05:45
21	DX9M_083S21	L12442-4,,	1,WG29103,1.0/20uL	11-Jul-09	03:00:42
22	DX9M_083S22	L12442-5,,	1,WG29103,1.0/20uL	11-Jul-09	03:55:39
23	DX9M_083S23	L12912-9,,	1,WG29271,1.0/20uL	11-Jul-09	04:50:34
24	DX9M_083S24	WG29271-103,,DUP	1,WG29271,1.0/20uL	11-Jul-09	05:45:32
25	DX9M_083S25	WG29271-104,,CRM	1,WG29271,1.0/20uL	11-Jul-09	06:40:28
26	DX9M_083S26	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	11-Jul-09	07:47:15
27	DX9M_083S27	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	08:54:41
28	DX9M_083S28	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	09:47:02
29	DX9M_083S29	L12442-6,,	1,WG29103,1.0/20uL	11-Jul-09	10:41:58
30	DX9M_083S30	L12442-7,,	1,WG29103,1.0/20uL	11-Jul-09	11:37:01
31	DX9M_083S31	L12442-8,,	1,WG29103,1.0/20uL	11-Jul-09	12:31:57
32	DX9M_083S32	L12442-9,,	1,WG29103,1.0/20uL	11-Jul-09	13:26:58
33	DX9M_083S33	L12442-10,,	1,WG29103,1.0/20uL	11-Jul-09	14:21:56
34	DX9M_083S34	L12442-11,,	1,WG29103,1.0/20uL	11-Jul-09	15:16:58
35	DX9M_083S35	L12442-12,,	1,WG29103,1.0/20uL	11-Jul-09	16:23:48
36	DX9M_083S36	L12442-20,,	1,WG29103,1.0/20uL	11-Jul-09	17:16:08
37	DX9M_083S37	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	11-Jul-09	18:11:10
38	DX9M_083S38	WG28997-102,I,SPM	1,WG28997,1.0/20uL	11-Jul-09	19:06:07
39	DX9M_083S39	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	20:01:09
40	DX9M_083S40	DX020B-SUR,,/06	1,,1.0uL Inst Blank	11-Jul-09	20:56:06
41	DX9M_083S41	L12442-21,,	1,WG29103,1.0/20uL	11-Jul-09	21:51:03
42	DX9M_083S42	L12442-23,,	1,WG29103,1.0/20uL	11-Jul-09	22:45:59
43	DX9M_083S43	L12442-24,,	1,WG29103,1.0/20uL	11-Jul-09	23:40:56
44	DX9M_083S44	L12442-25,,	1,WG29103,1.0/20uL	12-Jul-09	00:35:51
45	DX9M_083S45	WG29103-103,,DUP	1,WG29103,1.0/20uL	12-Jul-09	01:30:49
46	DX9M_083S46	L12442-26,,	1,WG29103,1.0/20uL	12-Jul-09	02:25:46
47	DX9M_083S47	L12442-27,,	1,WG29103,1.0/20uL	12-Jul-09	03:20:43
48	DX9M_083S48	DX036D-CAL,,/01-22	1,,1.0uL Cal Win/Res	12-Jul-09	04:27:26



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

	Name	Sample Size	Resp	Ratio	fails?	RT	ppm	DL	%Rec	Noise 1	Noise 2
1	2,3,7,8-TCDF	1.000	1.92e5	0.74	NO	25.34	11.318	0.0508	105.8	2.17e3	1.06e3
2	1,2,3,7,8-PeCDF	1.000	6.75e5	1.51	NO	33.68	48.515	0.0566	105.5	1.65e3	1.01e3
3	2,3,4,7,8-PeCDF	1.000	6.66e5	1.52	NO	35.42	49.066	0.0504	104.4	1.65e3	1.01e3
4	1,2,3,4,7,8-HxCDF	1.000	6.14e5	1.21	NO	40.75	53.162	0.0456	106.3	1.44e3	1.37e3
5	1,2,3,6,7,8-HxCDF	1.000	6.46e5	1.22	NO	40.94	50.226	0.0457	105.7	1.44e3	1.37e3
6	2,3,4,6,7,8-HxCDF	1.000	5.91e5	1.19	NO	41.87	55.060	0.0517	103.9	1.44e3	1.37e3
7	1,2,3,7,8,9-HxCDF	1.000	4.93e5	1.21	NO	42.91	51.471	0.0586	98.0	1.44e3	1.37e3
8	1,2,3,4,6,7,8-HpCDF	1.000	5.94e5	1.00	NO	45.34	55.349	0.0362	110.7	1.38e3	7.63e2
9	1,2,3,4,7,8,9-HpCDF	1.000	4.63e5	1.00	NO	47.12	54.734	0.0452	109.5	1.38e3	7.63e2
10	OCDF	1.000	9.00e5	0.88	NO	50.34	105.763	0.0613	101.7	1.72e3	1.02e3
11	2,3,7,8-TCDD	1.000	1.57e5	0.76	NO	26.58	10.559	0.0599	96.0	1.67e3	1.67e3
12	1,2,3,7,8-PeCDD	1.000	5.46e5	0.60	NO	36.23	50.761	0.0893	97.6	2.30e3	1.45e3
13	1,2,3,4,7,8-HxCDD	1.000	5.18e5	1.21	NO	42.14	56.045	0.0607	99.2	1.77e3	1.26e3
14	1,2,3,6,7,8-HxCDD	1.000	5.44e5	1.21	NO	42.28	55.824	0.0591	100.6	1.77e3	1.26e3
15	1,2,3,7,8,9-HxCDD	1.000	5.18e5	1.21	NO	42.69	55.646	0.0611	103.0	1.77e3	1.26e3
16	1,2,3,4,6,7,8-HpCDD	1.000	4.58e5	1.01	NO	46.70	48.953	0.0467	103.1	9.43e2	1.61e3
17	OCDD	1.000	9.04e5	0.87	NO	50.26	98.355	0.0280	98.4	7.60e2	5.90e2
18	13C-2,3,7,8-TCDF	1.000	2.22e6	0.76	NO	25.32	109.056	0.1272	109.1	6.80e3	3.46e3
19	13C-1,2,3,7,8-PeCDF	1.000	1.67e6	1.53	NO	33.64	117.636	0.0798	117.6	2.66e3	1.83e3
20	13C-2,3,4,7,8-PeCDF	1.000	1.60e6	1.52	NO	35.40	116.024	0.0820	116.0	2.66e3	1.83e3
21	13C-1,2,3,4,7,8-HxCDF	1.000	1.20e6	0.50	NO	40.74	98.483	0.0885	98.5	3.34e3	2.09e3
22	13C-1,2,3,6,7,8-HxCDF	1.000	1.41e6	0.51	NO	40.90	98.954	0.0760	99.0	3.34e3	2.09e3
23	13C-2,3,4,6,7,8-HxCDF	1.000	1.24e6	0.50	NO	41.86	94.627	0.0829	94.6	3.34e3	2.09e3
24	13C-1,2,3,7,8,9-HxCDF	1.000	1.19e6	0.50	NO	42.89	97.343	0.0888	97.3	3.34e3	2.09e3
25	13C-1,2,3,4,6,7,8-HpCDF	1.000	1.02e6	0.44	NO	45.32	103.747	0.1124	103.7	2.47e3	3.06e3
26	13C-1,2,3,4,7,8,9-HpCDF	1.000	8.84e5	0.44	NO	47.10	97.983	0.1220	98.0	2.47e3	3.06e3
27	13C-2,3,7,8-TCDD	1.000	1.66e6	0.78	NO	26.55	106.359	0.2627	106.4	4.83e3	1.15e4
28	13C-1,2,3,7,8-PeCDD	1.000	1.23e6	0.61	NO	36.20	121.216	0.1547	121.2	4.35e3	1.86e3
29	13C-1,2,3,4,7,8-HxCDD	1.000	1.13e6	1.27	NO	42.12	96.688	0.0695	96.7	2.40e3	1.68e3
30	13C-1,2,3,6,7,8-HxCDD	1.000	1.28e6	1.25	NO	42.27	94.046	0.0595	94.0	2.40e3	1.68e3
31	13C-1,2,3,4,6,7,8-HpCDD	1.000	9.70e5	1.02	NO	46.68	94.721	0.0941	94.7	2.07e3	2.77e3
32	13C-OCDD	1.000	1.98e6	0.90	NO	50.24	170.315	0.0466	85.2	1.57e3	1.16e3
33	13C-1,2,3,4-TCDD	1.000	1.43e6	0.79	NO	26.21	80.919	0.2319	80.9	4.83e3	1.15e4
34	13C-1,2,3,7,8,9-HxCDD	1.000	1.20e6	1.25	NO	42.68	106.536	0.0722	106.5	2.40e3	1.68e3
35	37Cl-2,3,7,8-TCDD	1.000	1.72e5			26.56	11.574	0.0622	115.7		3.68e3
36	Total Tetra-Furans	1.000					40.354	0.0508			1.06e3
37	Total Tetra-Dioxins	1.000					85.937	0.0599			1.67e3
38	Total Penta-Furans	1.000					189.006	0.0540			1.01e3
39	Total Penta-Dioxins	1.000					151.072	0.0893			1.45e3
40	Total Hexa-Furans	1.000					315.139	0.0462			1.37e3
41	Total Hexa-Dioxins	1.000					227.351	0.0576			1.26e3
42	Total Hepta-Furans	1.000					111.193	0.0384			7.63e2
43	Total Hepta-Dioxins	1.000					101.029	0.0467			1.61e3
44	Hexa DPE	1.000	1.87e2			22.25					1.69e3
45	Hepta DPE	1.000	5.48e2			37.61					2.52e3
46	Octa DPE	1.000	2.34e2			40.13					1.81e3
47	Nona DPE	1.000									2.57e3
48	Deca DPE	1.000	1.28e2			50.75					1.08e3
49	Tetra Lock	1.000									8.20e5
50	Penta Lock	1.000	2.34e6			29.01					1.94e6
51	Hexa Lock	1.000	4.57e6			38.73					2.35e6

PV WL 14-JUL-2009



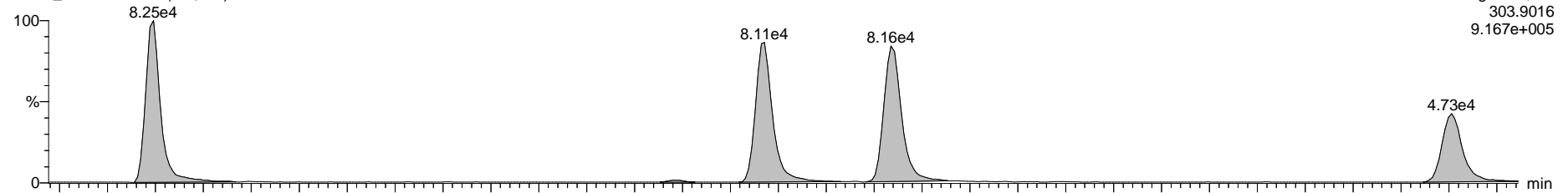
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Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

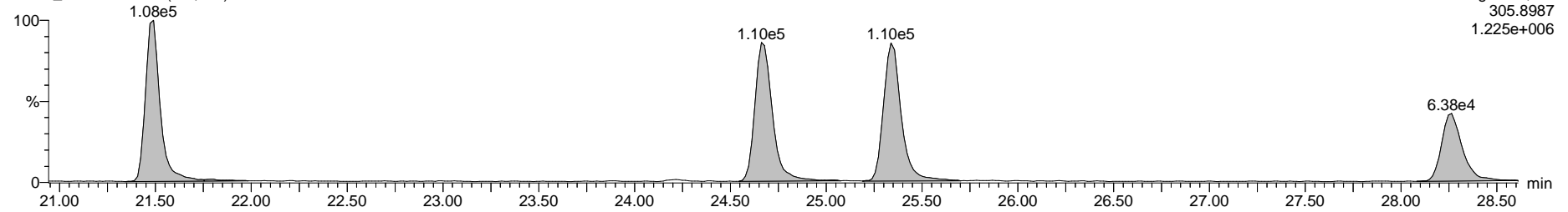
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Total Tetra-Furans

DX9M_083S1 Smooth(SG,1x2)

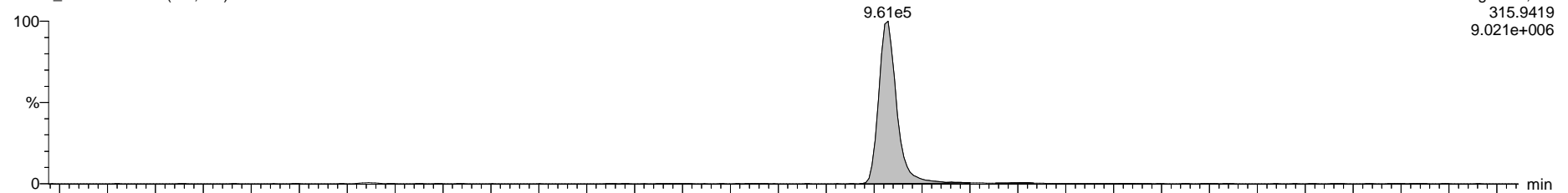


DX9M_083S1 Smooth(SG,1x2)

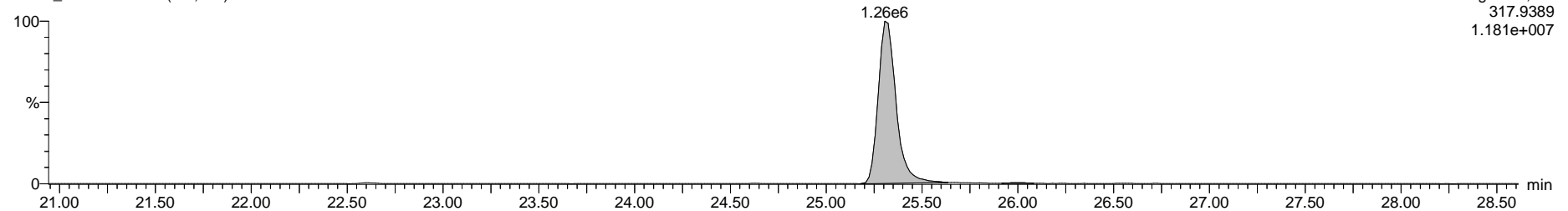


13C-2,3,7,8-TCDF

DX9M_083S1 Smooth(SG,1x2)



DX9M_083S1 Smooth(SG,1x2)

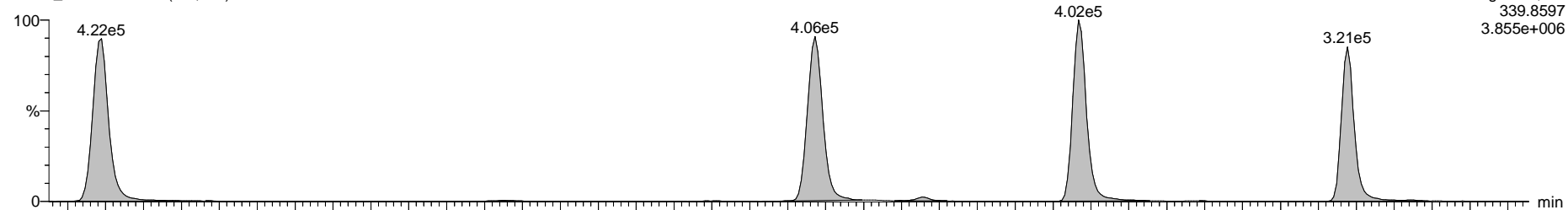


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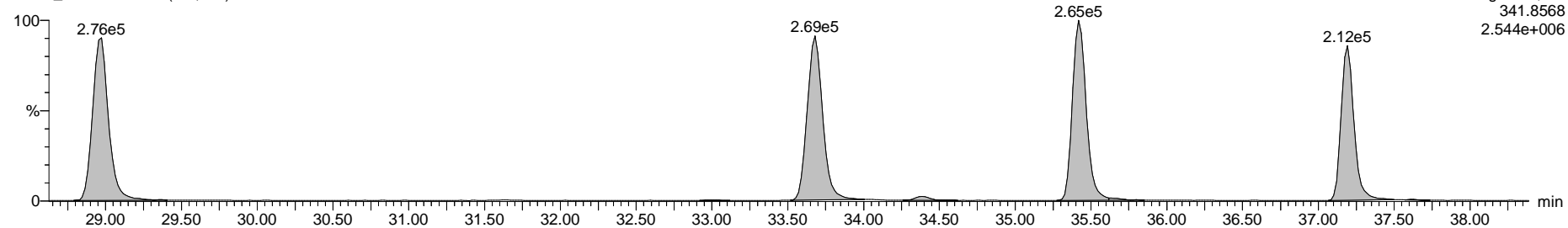
Total Penta-Furans

DX9M_083S1 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
3.855e+006

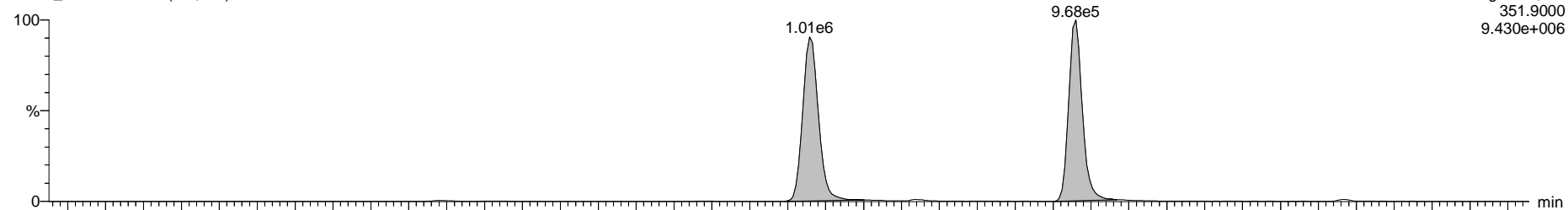
DX9M_083S1 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
2.544e+006

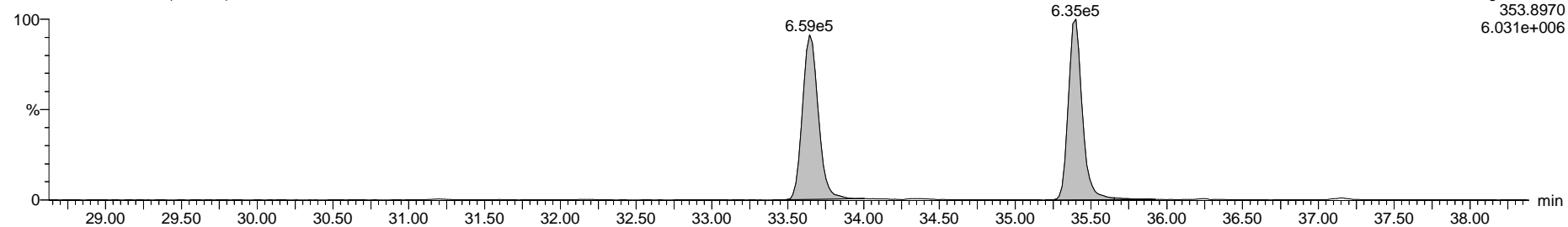
13C-1,2,3,7,8-PeCDF

DX9M_083S1 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
9.430e+006

DX9M_083S1 Smooth(SG,1x2)



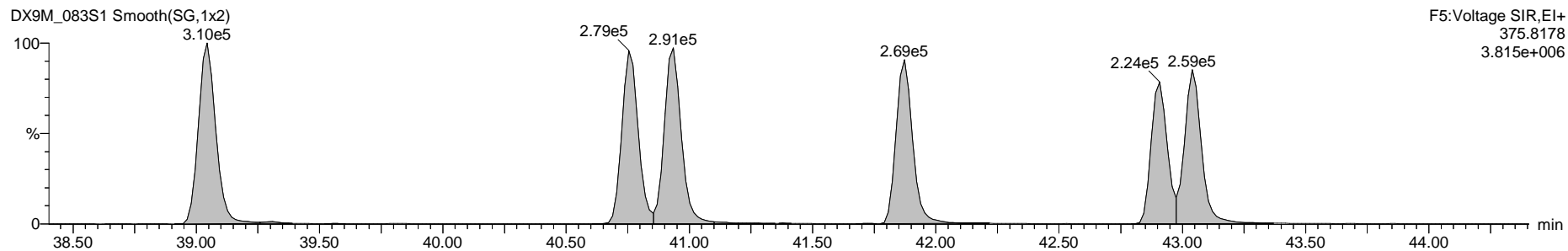
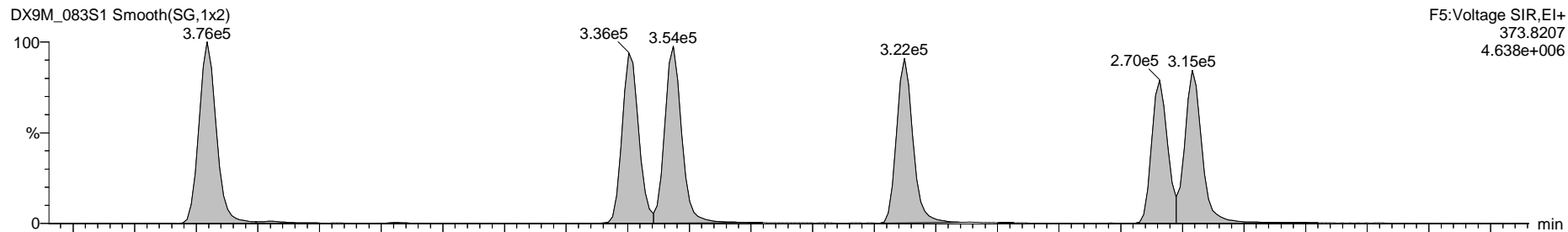
F4:Voltage SIR,EI+
353.8970
6.031e+006



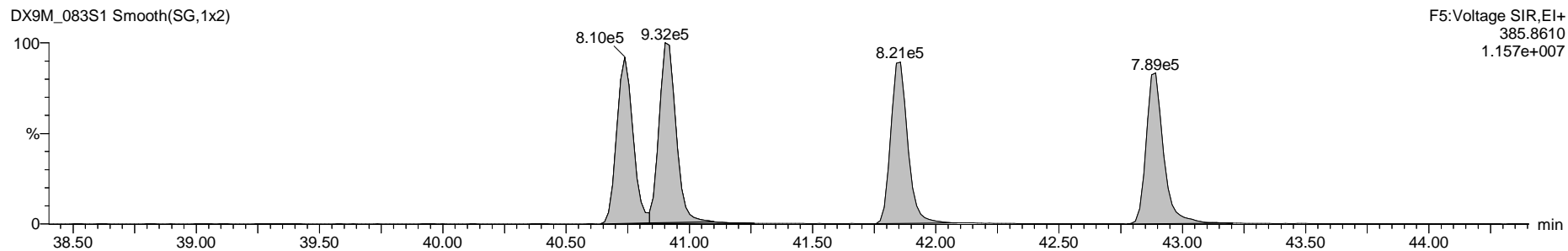
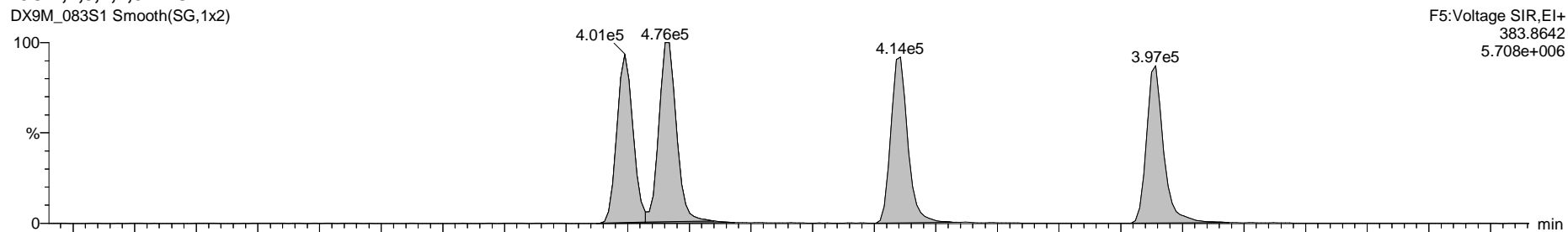
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Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

Total Hexa-Furans



13C-1,2,3,4,7,8-HxCDF

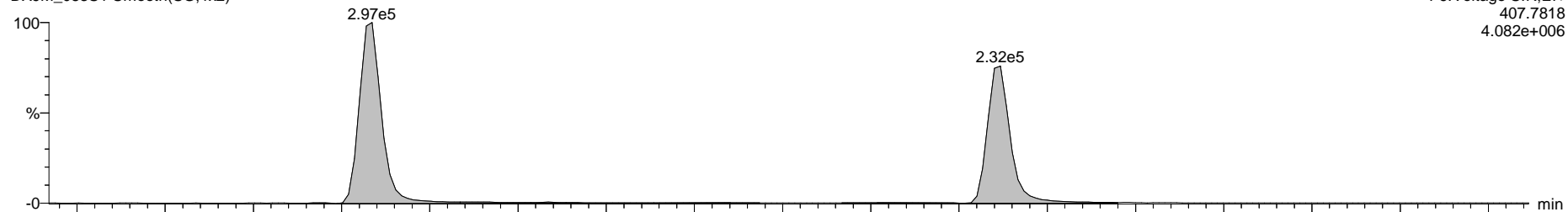


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

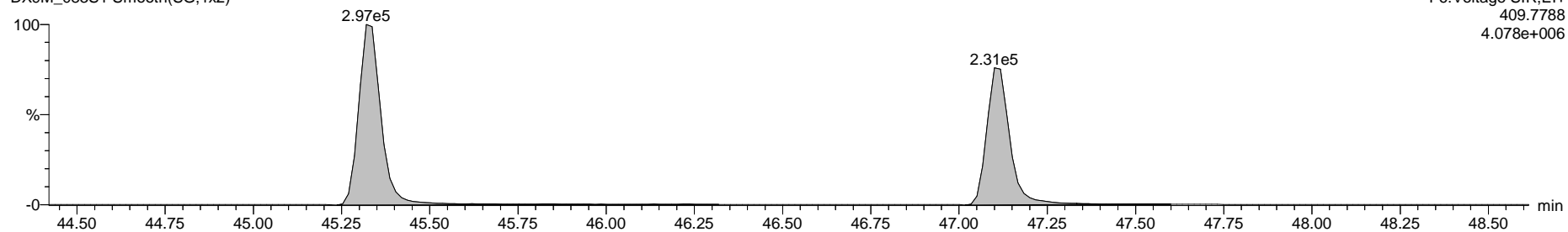
Total Hepta-Furans

DX9M_083S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
4.082e+006

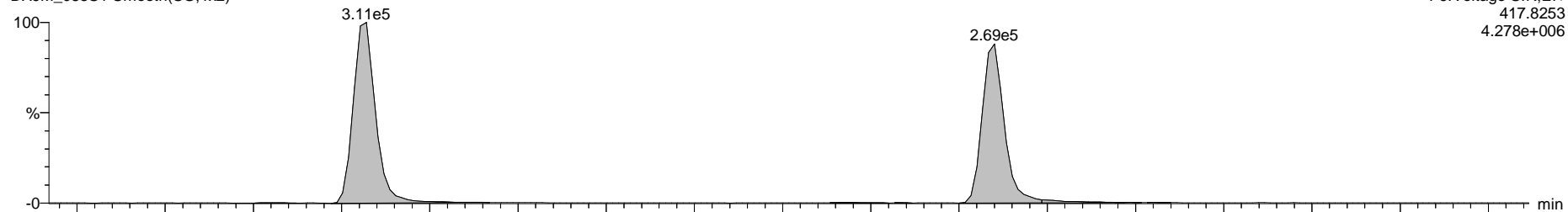
DX9M_083S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
4.078e+006

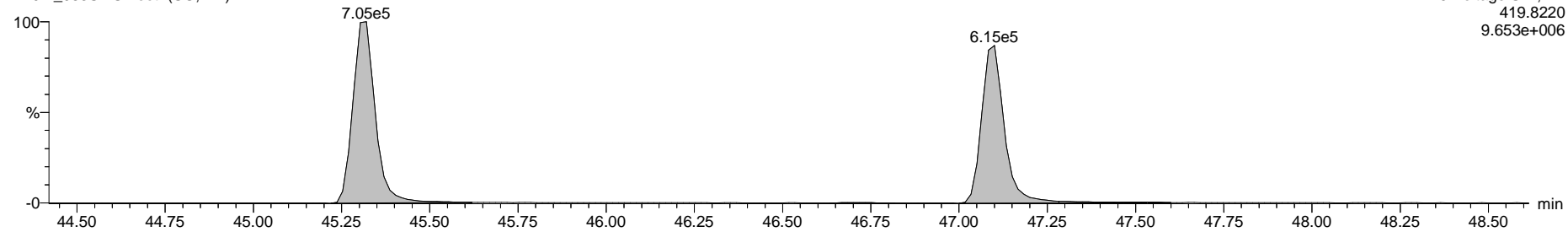
13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
4.278e+006

DX9M_083S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
9.653e+006

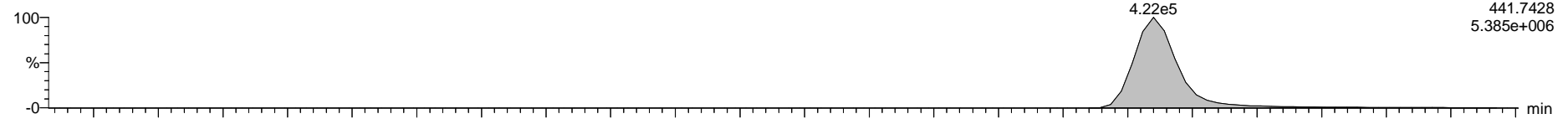


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

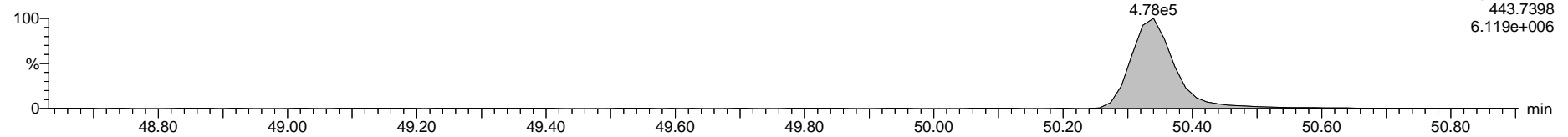
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OCDF

DX9M_083S1 Smooth(SG,1x2)

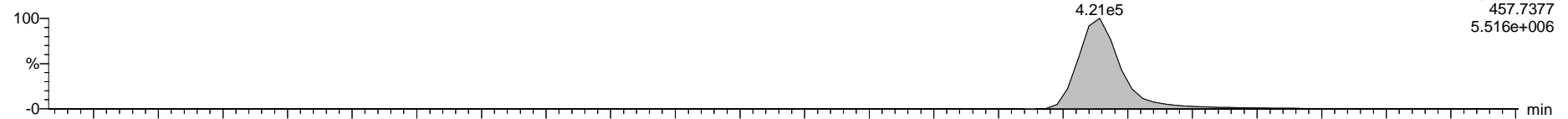


DX9M_083S1 Smooth(SG,1x2)

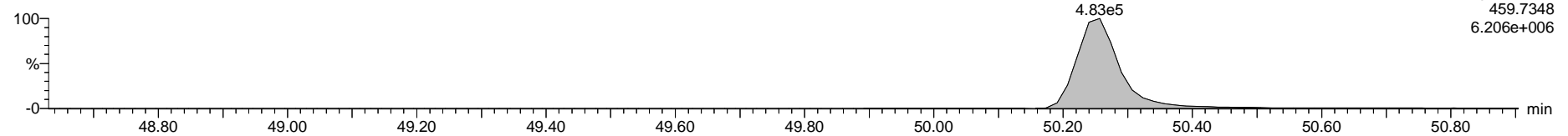


OCDD

DX9M_083S1 Smooth(SG,1x2)

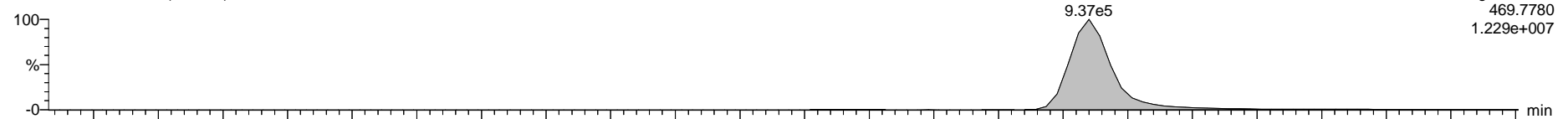


DX9M_083S1 Smooth(SG,1x2)

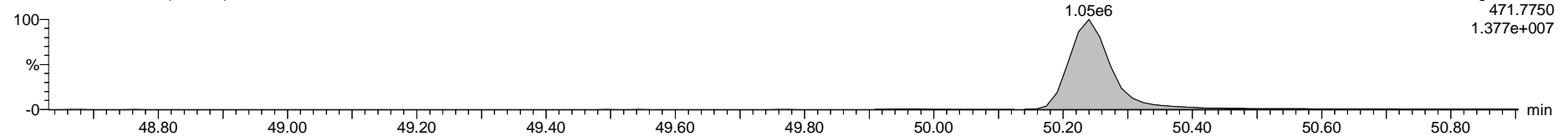


13C-OCDD

DX9M_083S1 Smooth(SG,1x2)



DX9M_083S1 Smooth(SG,1x2)

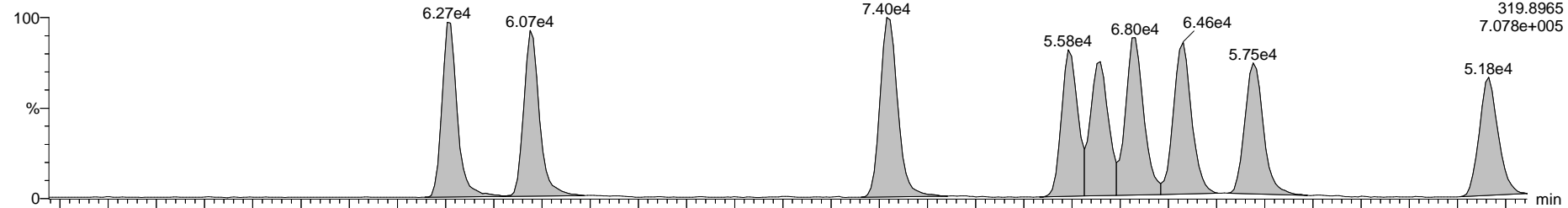


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

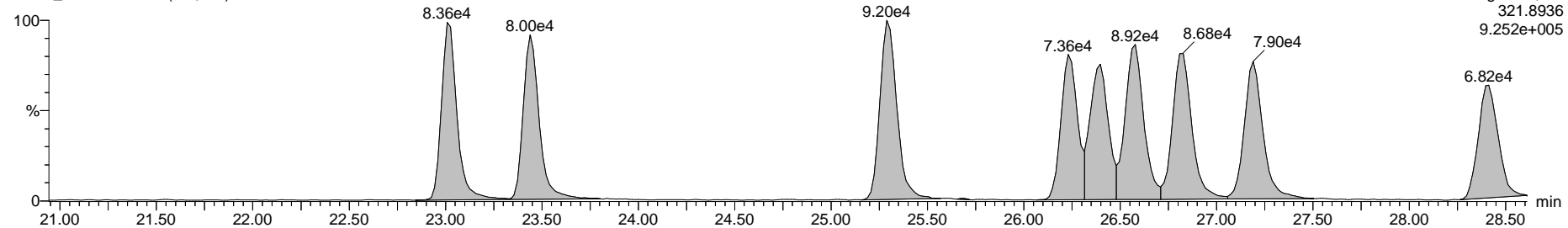
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Total Tetra-Dioxins

DX9M_083S1 Smooth(SG,1x2)

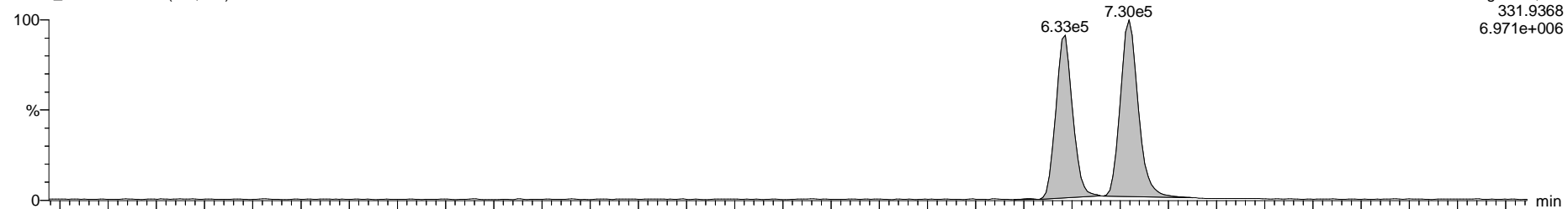


DX9M_083S1 Smooth(SG,1x2)

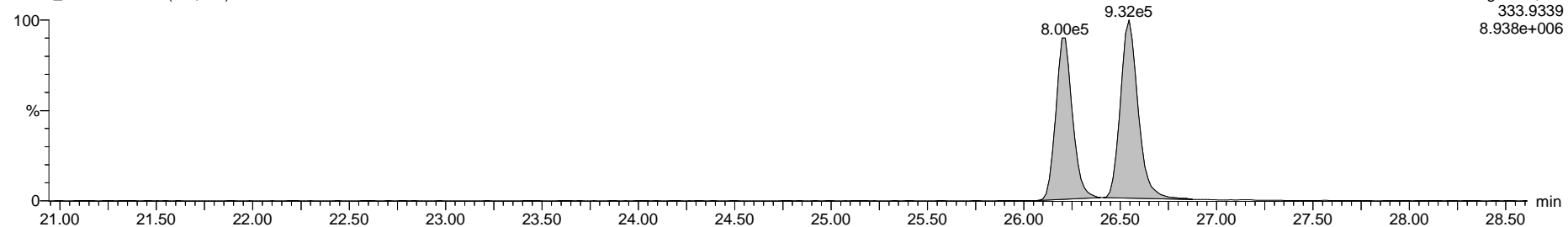


13C-2,3,7,8-TCDD

DX9M_083S1 Smooth(SG,1x2)



DX9M_083S1 Smooth(SG,1x2)

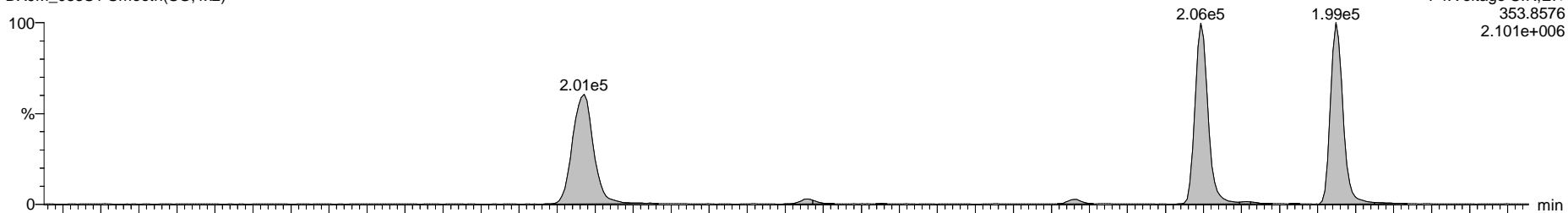


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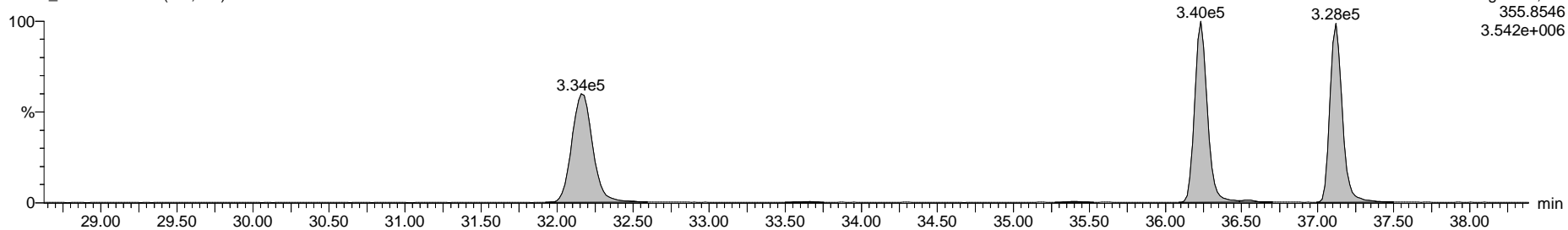
Total Penta-Dioxins

DX9M_083S1 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8576
2.101e+006

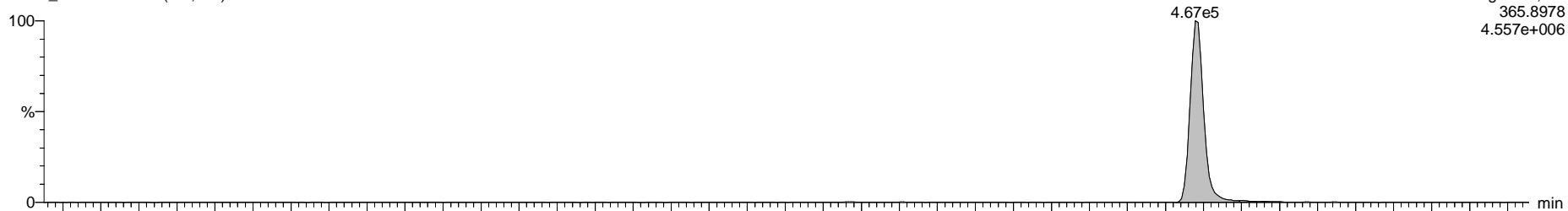
DX9M_083S1 Smooth(SG,1x2)



F4:Voltage SIR,EI+
355.8546
3.542e+006

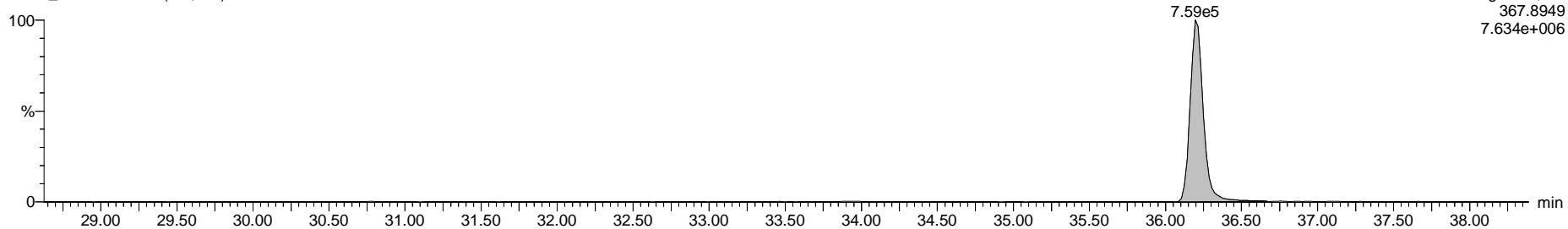
13C-1,2,3,7,8-PeCDD

DX9M_083S1 Smooth(SG,1x2)



F4:Voltage SIR,EI+
365.8978
4.557e+006

DX9M_083S1 Smooth(SG,1x2)



F4:Voltage SIR,EI+
367.8949
7.634e+006

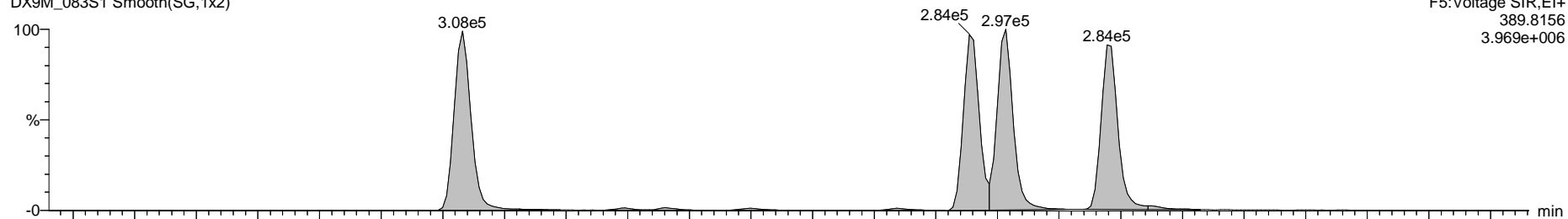


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

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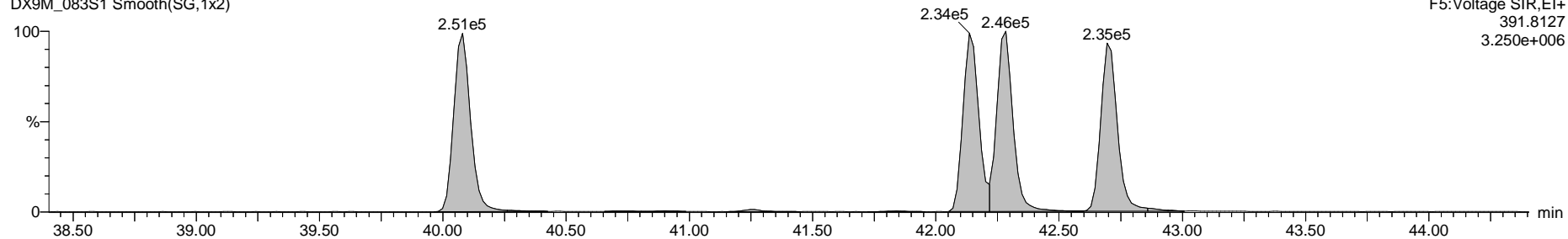
Total Hexa-Dioxins

DX9M_083S1 Smooth(SG,1x2)



F5:Voltage SIR,EI+
389.8156
3.969e+006

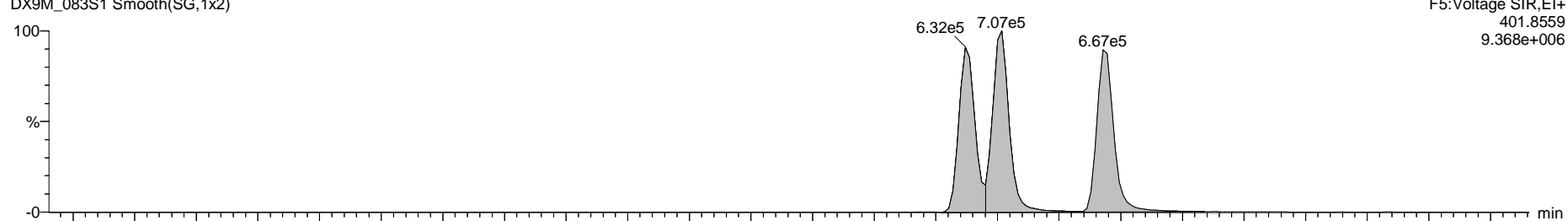
DX9M_083S1 Smooth(SG,1x2)



F5:Voltage SIR,EI+
391.8127
3.250e+006

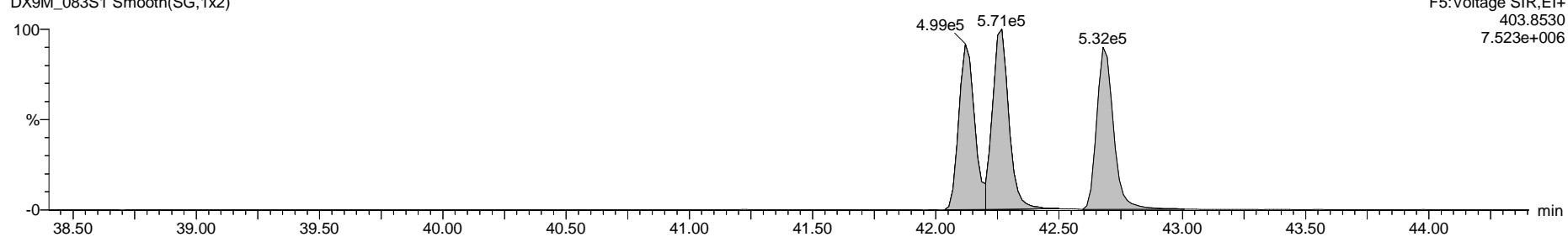
13C-1,2,3,4,7,8-HxCDD

DX9M_083S1 Smooth(SG,1x2)



F5:Voltage SIR,EI+
401.8559
9.368e+006

DX9M_083S1 Smooth(SG,1x2)



F5:Voltage SIR,EI+
403.8530
7.523e+006

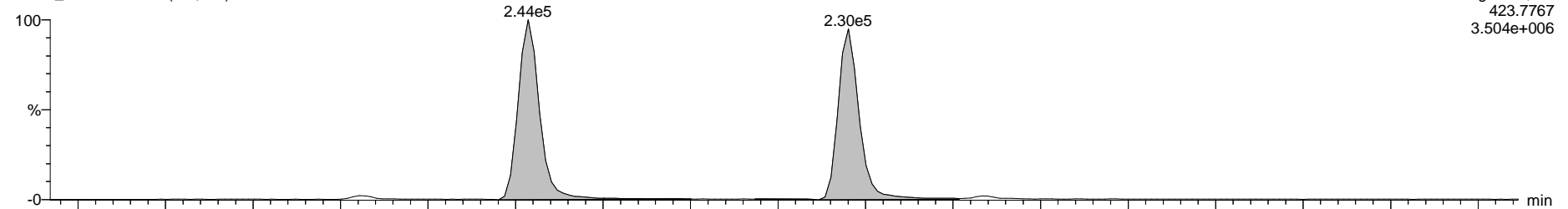


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

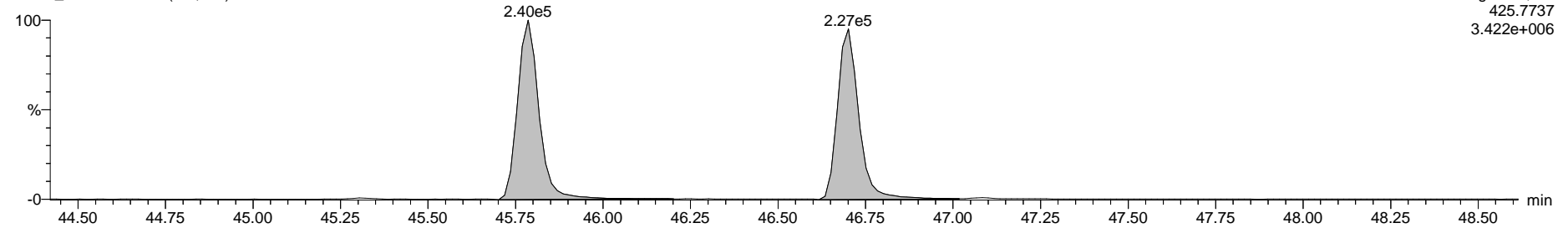
Total Hepta-Dioxins

DX9M_083S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
3.504e+006

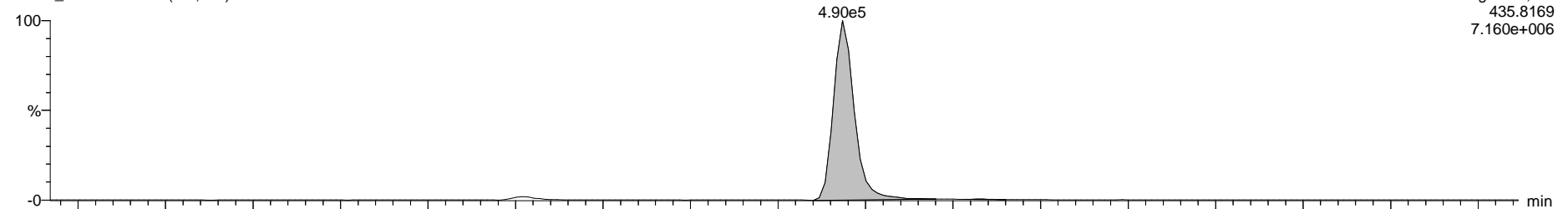
DX9M_083S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
3.422e+006

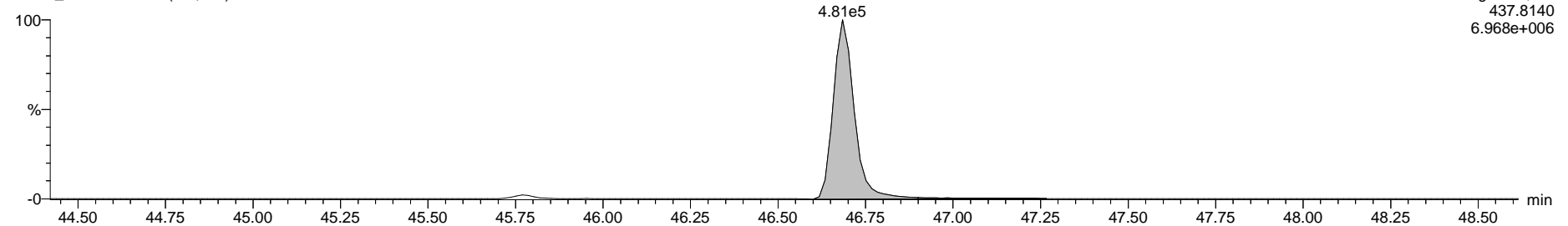
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
7.160e+006

DX9M_083S1 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
6.968e+006

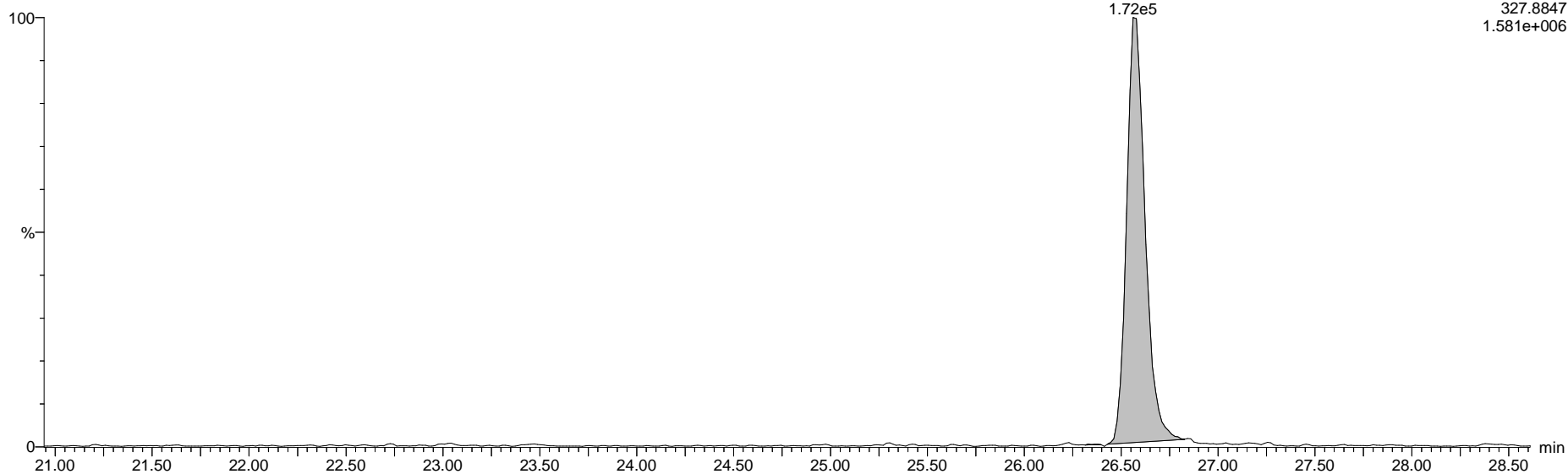


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

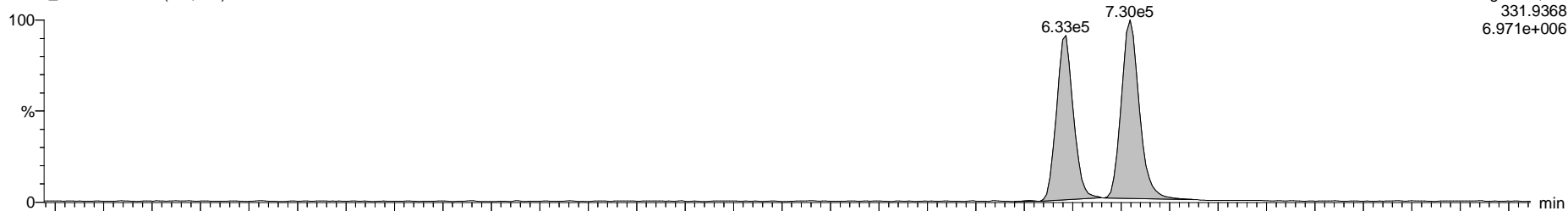
37Cl-2,3,7,8-TCDD

DX9M_083S1 Smooth(SG,1x2)

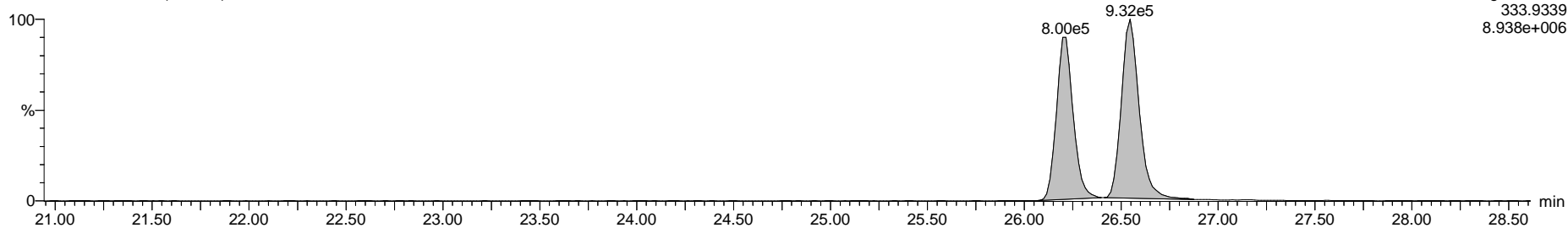


13C-1,2,3,4-TCDD

DX9M_083S1 Smooth(SG,1x2)



DX9M_083S1 Smooth(SG,1x2)

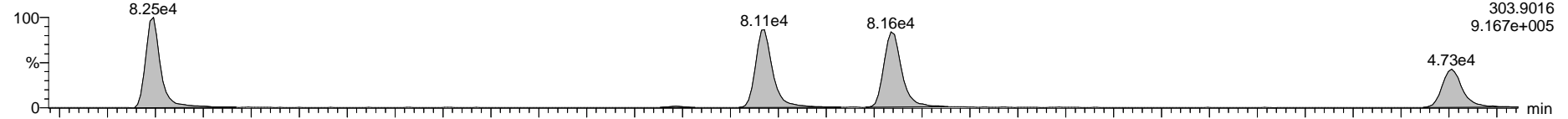


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

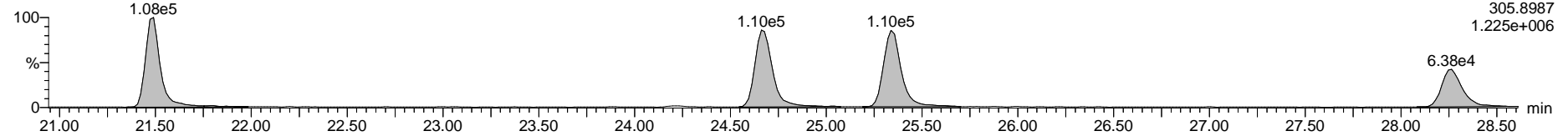
Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

Total Tetra-Furans

DX9M_083S1 Smooth(SG,1x2)

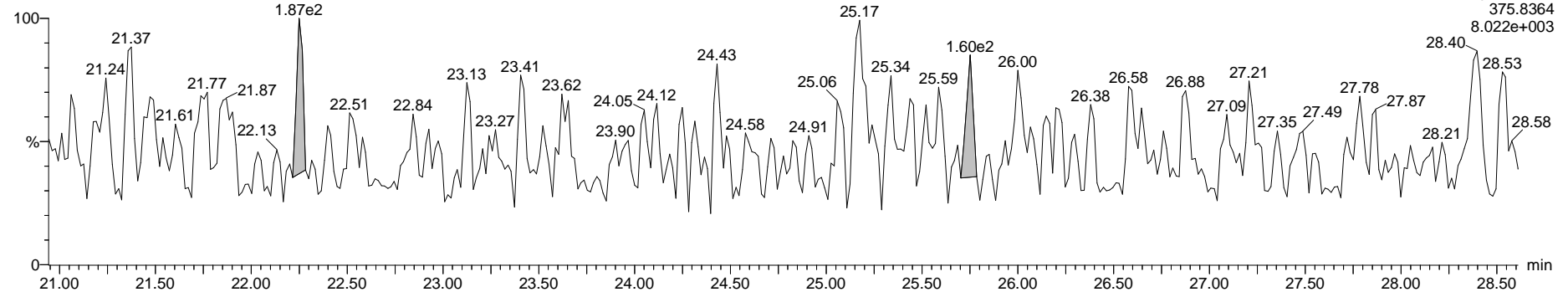


DX9M_083S1 Smooth(SG,1x2)



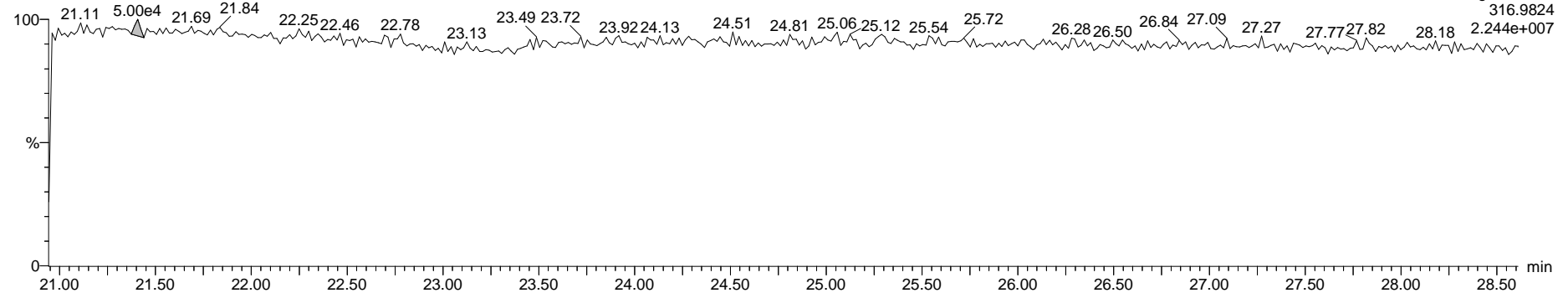
Hexa DPE

DX9M_083S1 Smooth(SG,1x2)



Tetra Lock

DX9M_083S1



PV WL 14-JUL-2009

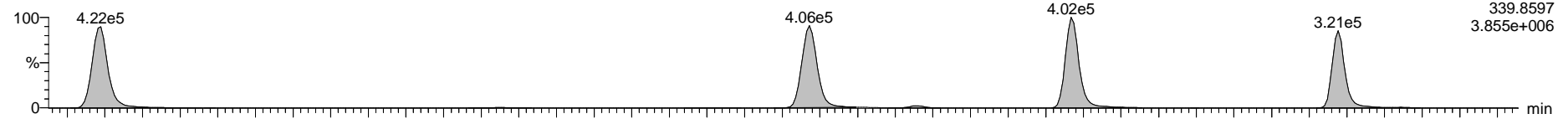


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

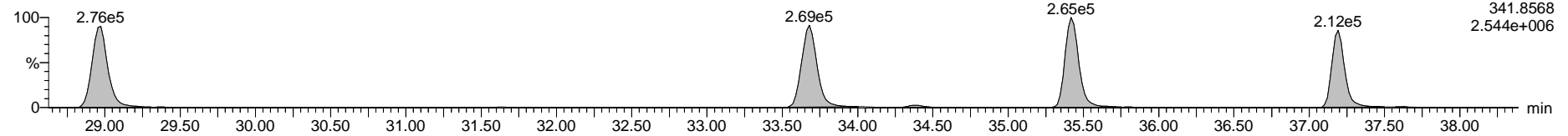
Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Penta-Furans

DX9M_083S1 Smooth(SG,1x2)

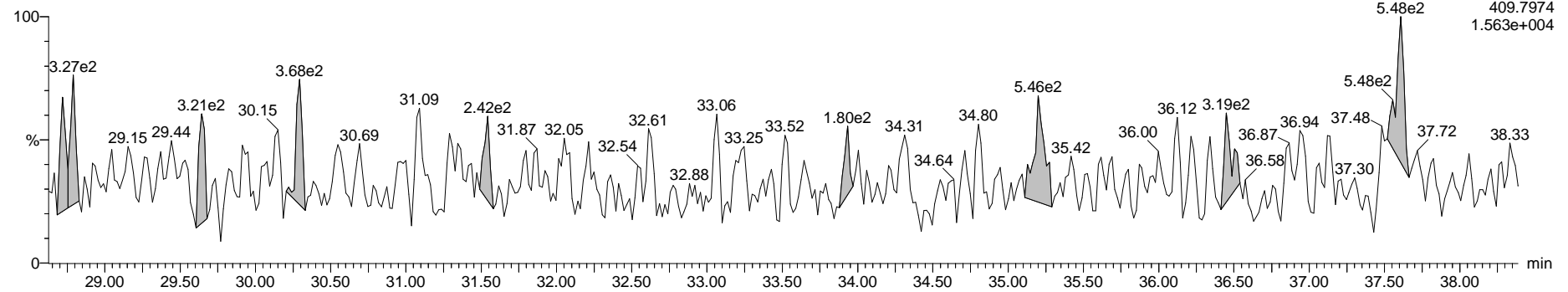


DX9M_083S1 Smooth(SG,1x2)



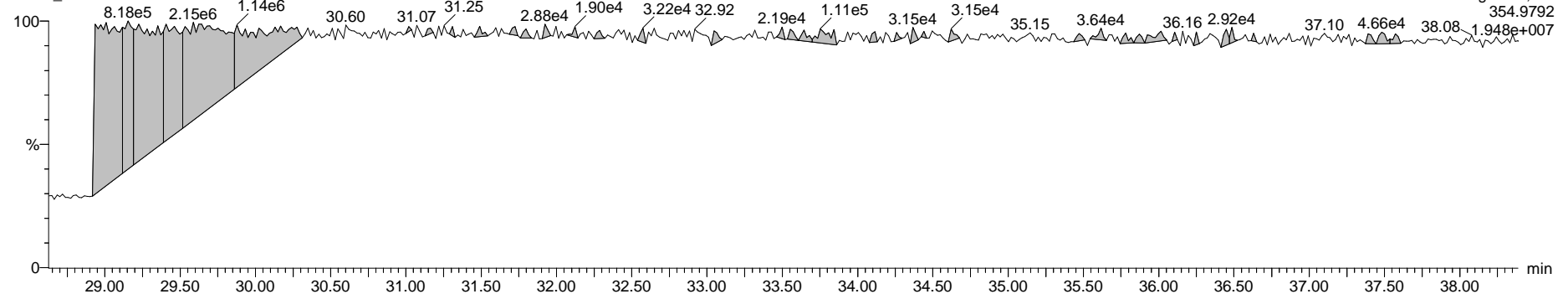
Hepta DPE

DX9M_083S1 Smooth(SG,1x2)



Penta Lock

DX9M_083S1



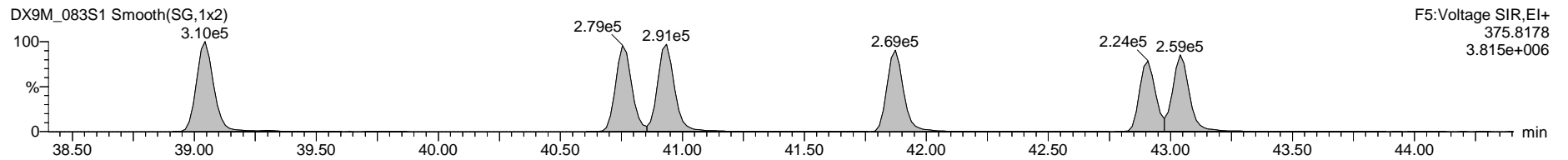
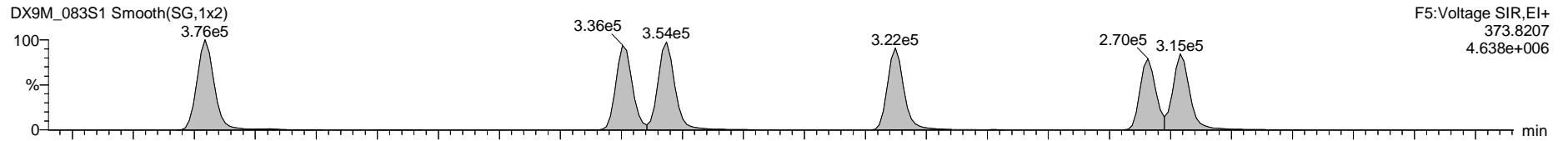
PV WL 14-JUL-2009



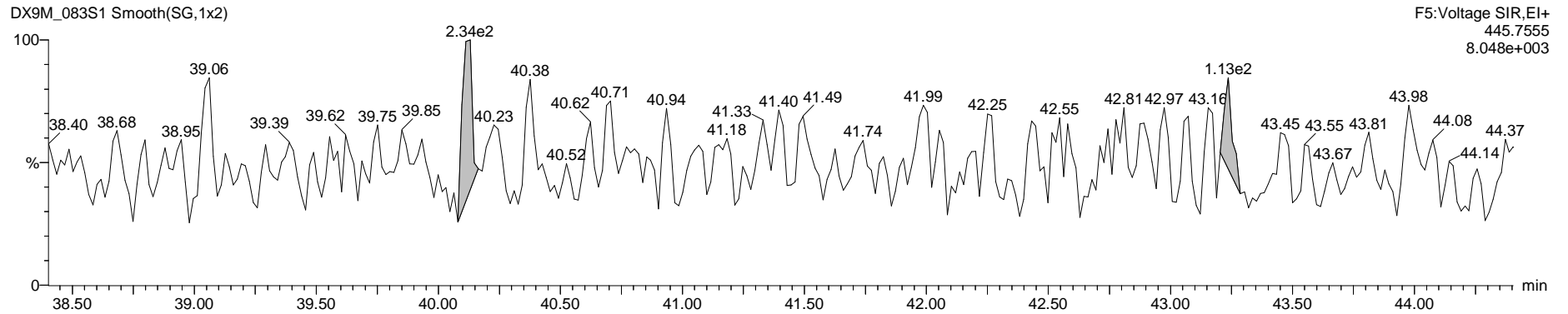
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

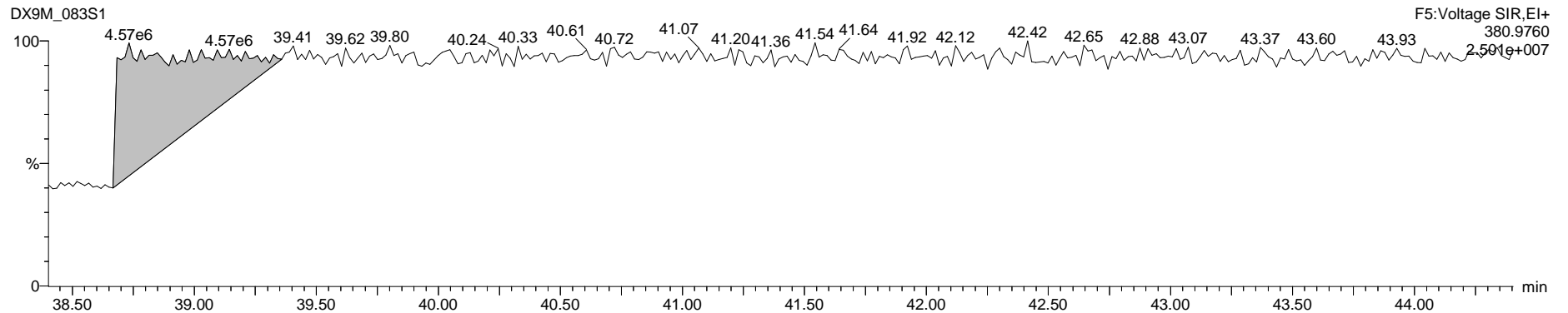
Total Hexa-Furans



Octa DPE



Hexa Lock

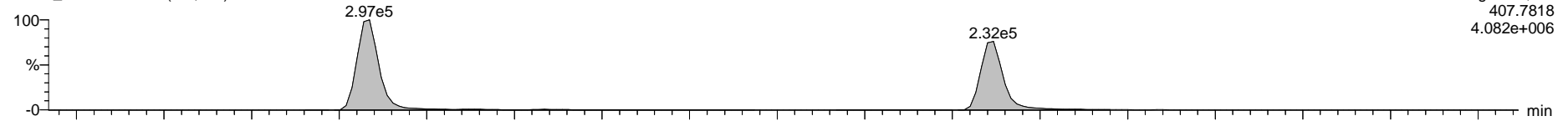


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

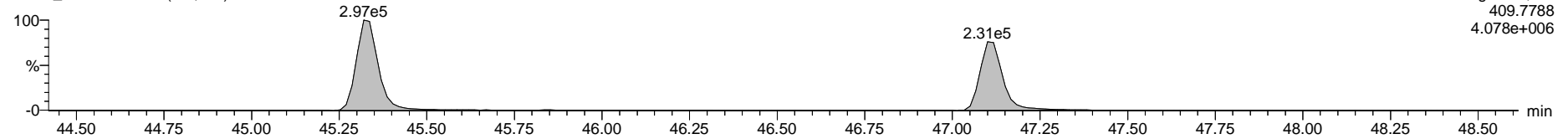
Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Hepta-Furans

DX9M_083S1 Smooth(SG,1x2)

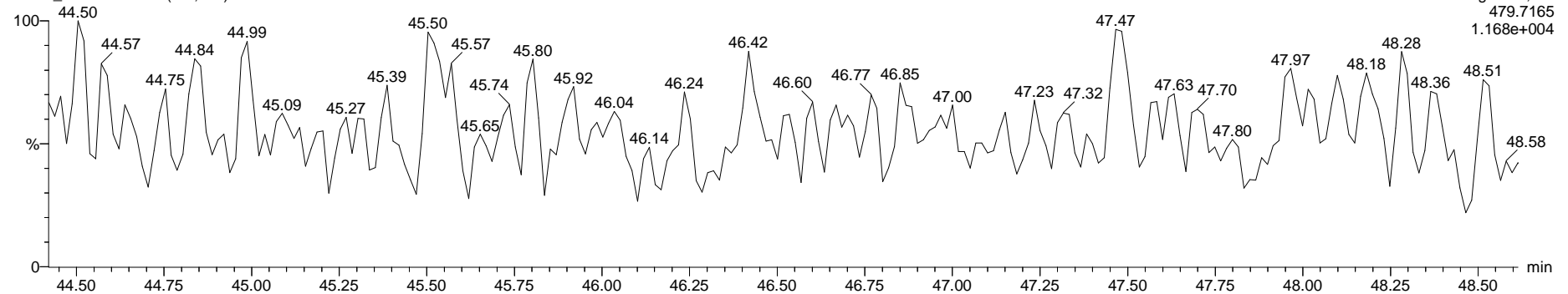


DX9M_083S1 Smooth(SG,1x2)



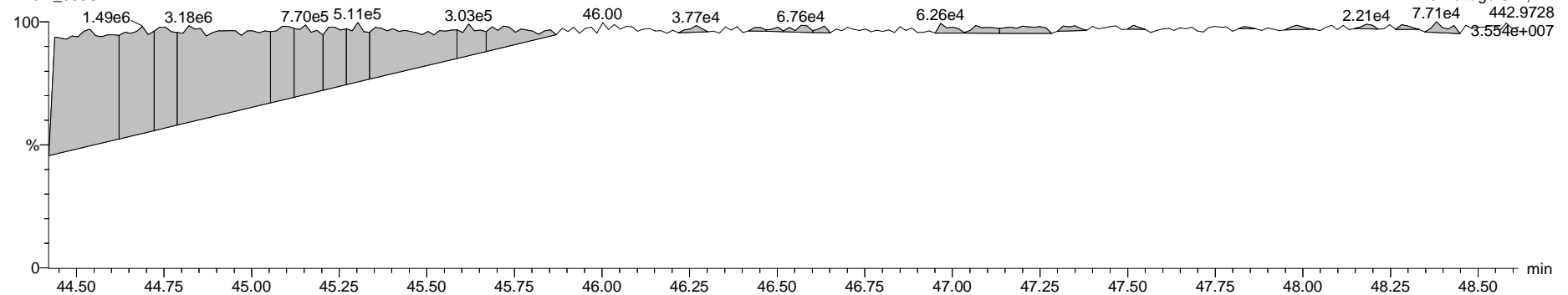
Nona DPE

DX9M_083S1 Smooth(SG,1x2)



Hepta Lock

DX9M_083S1

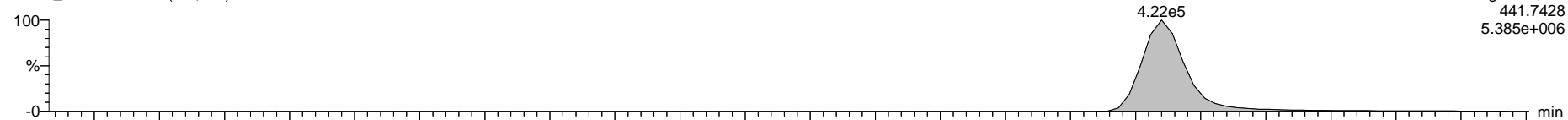


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-A.qld

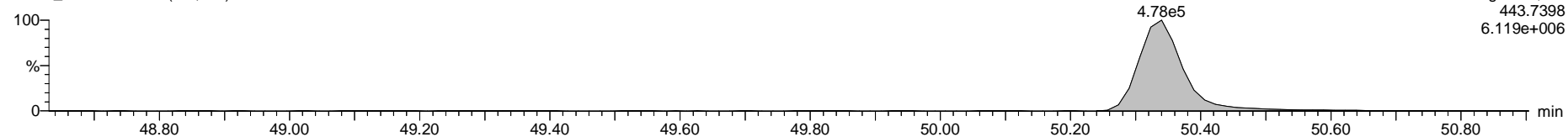
Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

OCDF

DX9M_083S1 Smooth(SG,1x2)

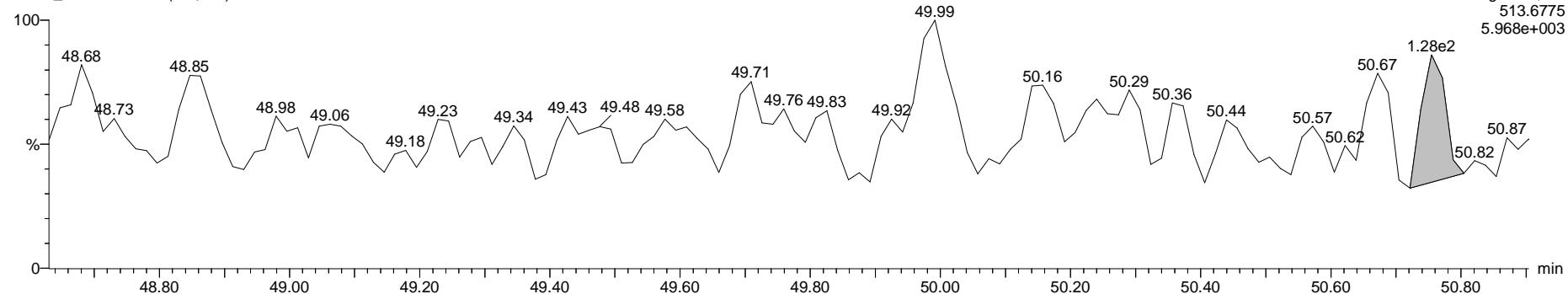


DX9M_083S1 Smooth(SG,1x2)



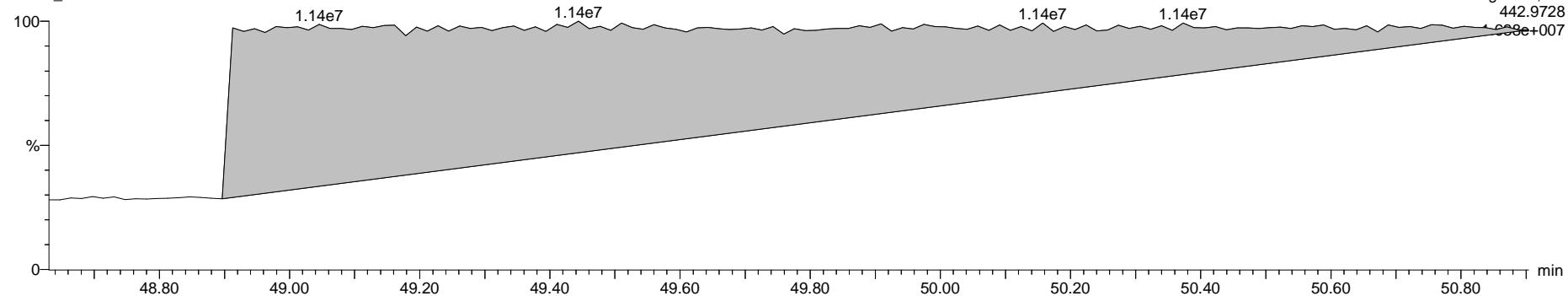
Deca DPE

DX9M_083S1 Smooth(SG,1x2)



Octa Lock

DX9M_083S1



Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

	Name	Sample Size	Resp	Ratio	fails?	RT	DL	%Rec	Noise 1	Noise 2	
1	2,3,7,8-TCDF	1.000	2.66e5	0.75	NO	25.26	11.236	0.0177	105.0	1.15e3	8.03e2
2	1,2,3,7,8-PeCDF	1.000	7.98e5	1.49	NO	33.59	47.487	0.0470	103.2	1.33e3	1.64e3
3	2,3,4,7,8-PeCDF	1.000	8.54e5	1.50	NO	35.35	49.421	0.0399	105.2	1.33e3	1.64e3
4	1,2,3,4,7,8-HxCDF	1.000	7.88e5	1.21	NO	40.71	53.409	0.0469	106.8	2.40e3	1.70e3
5	1,2,3,6,7,8-HxCDF	1.000	7.70e5	1.21	NO	40.89	52.408	0.0511	110.3	2.40e3	1.70e3
6	2,3,4,6,7,8-HxCDF	1.000	7.44e5	1.11	NO	41.82	54.391	0.0511	102.6	2.40e3	1.70e3
7	1,2,3,7,8,9-HxCDF	1.000	6.78e5	1.21	NO	42.86	55.701	0.0593	106.1	2.40e3	1.70e3
8	1,2,3,4,6,7,8-HpCDF	1.000	7.45e5	1.00	NO	45.29	54.372	0.0243	108.7	1.15e3	9.72e2
9	1,2,3,4,7,8,9-HpCDF	1.000	6.24e5	0.98	NO	47.07	56.119	0.0311	112.2	1.15e3	9.72e2
10	OCDF	1.000	1.14e6	0.88	NO	50.29	107.750	0.0139	103.6	5.64e2	3.10e2
11	2,3,7,8-TCDD	1.000	2.19e5	0.77	NO	26.50	10.416	0.0131	94.7	5.87e2	6.44e2
12	1,2,3,7,8-PeCDD	1.000	7.24e5	0.61	NO	36.18	52.330	0.0400	100.6	1.46e3	1.07e3
13	1,2,3,4,7,8-HxCDD	1.000	6.87e5	1.23	NO	42.10	54.888	0.0394	97.1	1.07e3	1.86e3
14	1,2,3,6,7,8-HxCDD	1.000	6.77e5	1.22	NO	42.23	54.838	0.0394	98.8	1.07e3	1.86e3
15	1,2,3,7,8,9-HxCDD	1.000	6.93e5	1.21	NO	42.66	56.885	0.0402	105.3	1.07e3	1.86e3
16	1,2,3,4,6,7,8-HpCDD	1.000	6.29e5	1.00	NO	46.65	48.364	0.0275	101.8	8.55e2	1.32e3
17	OCDD	1.000	1.14e6	0.88	NO	50.21	99.829	0.0410	99.8	1.31e3	1.48e3
18	13C-2,3,7,8-TCDF	1.000	3.09e6	0.77	NO	25.24	106.124	0.0459	106.1	3.04e3	2.97e3
19	13C-1,2,3,7,8-PeCDF	1.000	2.02e6	1.51	NO	33.55	99.234	0.0916	99.2	4.86e3	3.52e3
20	13C-2,3,4,7,8-PeCDF	1.000	2.04e6	1.56	NO	35.33	103.099	0.0941	103.1	4.86e3	3.52e3
21	13C-1,2,3,4,7,8-HxCDF	1.000	1.54e6	0.50	NO	40.69	96.601	0.0772	96.6	3.56e3	3.59e3
22	13C-1,2,3,6,7,8-HxCDF	1.000	1.61e6	0.51	NO	40.87	86.875	0.0663	86.9	3.56e3	3.59e3
23	13C-2,3,4,6,7,8-HxCDF	1.000	1.57e6	0.51	NO	41.81	92.756	0.0723	92.8	3.56e3	3.59e3
24	13C-1,2,3,7,8,9-HxCDF	1.000	1.51e6	0.51	NO	42.84	95.017	0.0775	95.0	3.56e3	3.59e3
25	13C-1,2,3,4,6,7,8-HpCDF	1.000	1.30e6	0.44	NO	45.27	101.809	0.0893	101.8	3.28e3	3.33e3
26	13C-1,2,3,4,7,8,9-HpCDF	1.000	1.16e6	0.44	NO	47.05	99.024	0.0969	99.0	3.28e3	3.33e3
27	13C-2,3,7,8-TCDD	1.000	2.34e6	0.78	NO	26.46	104.757	0.0601	104.8	2.83e3	3.22e3
28	13C-1,2,3,7,8-PeCDD	1.000	1.58e6	0.62	NO	36.14	108.850	0.0485	108.8	1.54e3	1.62e3
29	13C-1,2,3,4,7,8-HxCDD	1.000	1.53e6	1.24	NO	42.09	100.606	0.0614	100.6	2.78e3	2.65e3
30	13C-1,2,3,6,7,8-HxCDD	1.000	1.63e6	1.24	NO	42.22	91.575	0.0526	91.6	2.78e3	2.65e3
31	13C-1,2,3,4,6,7,8-HpCDD	1.000	1.35e6	1.02	NO	46.65	101.180	0.0737	101.2	3.00e3	2.71e3
32	13C-OCDD	1.000	2.47e6	0.88	NO	50.19	162.862	0.0577	81.4	1.54e3	3.54e3
33	13C-1,2,3,4-TCDD	1.000	2.05e6	0.78	NO	26.13	115.860	0.0759	115.9	2.83e3	3.22e3
34	13C-1,2,3,7,8,9-HxCDD	1.000	1.56e6	1.23	NO	42.65	138.603	0.0830	138.6	2.78e3	2.65e3
35	37Cl-2,3,7,8-TCDD	1.000	2.46e5			26.48	11.533	0.0232	115.3		2.22e3
36	Total Tetra-Furans	1.000					39.542	0.0177			8.03e2
37	Total Tetra-Dioxins	1.000					86.630	0.0131			6.44e2
38	Total Penta-Furans	1.000					194.874	0.0438			1.64e3
39	Total Penta-Dioxins	1.000					155.335	0.0400			1.07e3
40	Total Hexa-Furans	1.000					323.863	0.0479			1.70e3
41	Total Hexa-Dioxins	1.000					226.195	0.0379			1.86e3
42	Total Hepta-Furans	1.000					113.742	0.0261			9.72e2
43	Total Hepta-Dioxins	1.000					101.327	0.0275			1.32e3
44	Hexa DPE	1.000	9.03e1			24.38					2.11e2
45	Hepta DPE	1.000	3.10e2			37.55					1.32e2
46	Octa DPE	1.000	5.46e1			40.21					1.45e2
47	Nona DPE	1.000	1.28e2			47.32					3.38e2
48	Deca DPE	1.000	5.01e1			49.43					8.85e1
49	Tetra Lock	1.000									7.98e4
50	Penta Lock	1.000	2.68e3			29.10					2.48e4
51	Hexa Lock	1.000	5.00e3			39.80					5.71e4

PV WL 15-JUL-2009



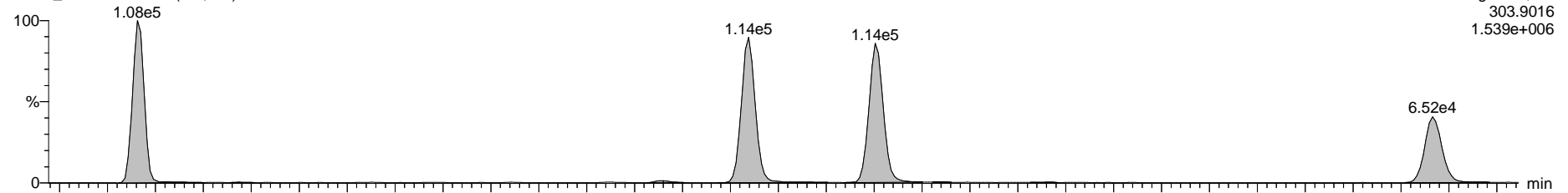
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Method: G:\Masslynx\Inst_M\Projects\090619DX.PRO\MethDB\DX_1613B_013.mdb 25 May 2009 13:59:37
 Calibration: G:\Masslynx\Inst_M\Projects\090619DX.PRO\CurveDB\DX9M_072-B.cdb 22 Jun 2009 10:11:43

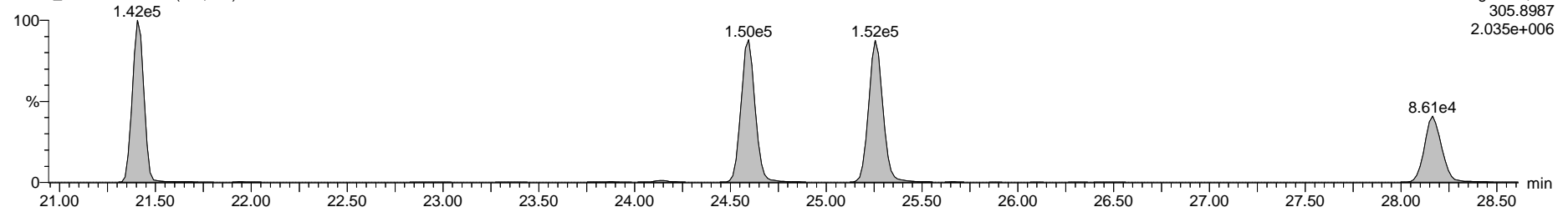
Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Tetra-Furans

DX9M_083S14 Smooth(SG,1x2)

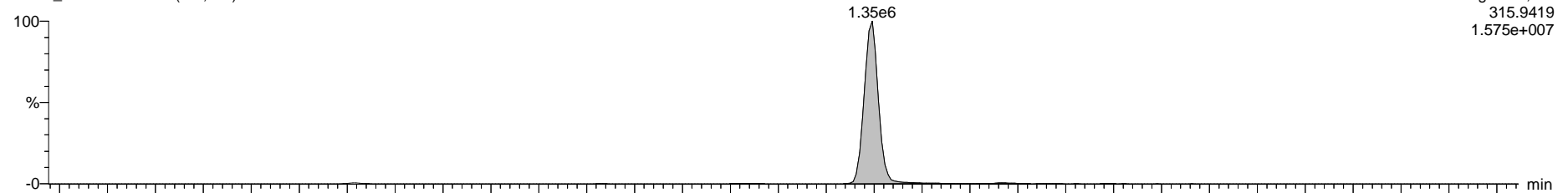


DX9M_083S14 Smooth(SG,1x2)

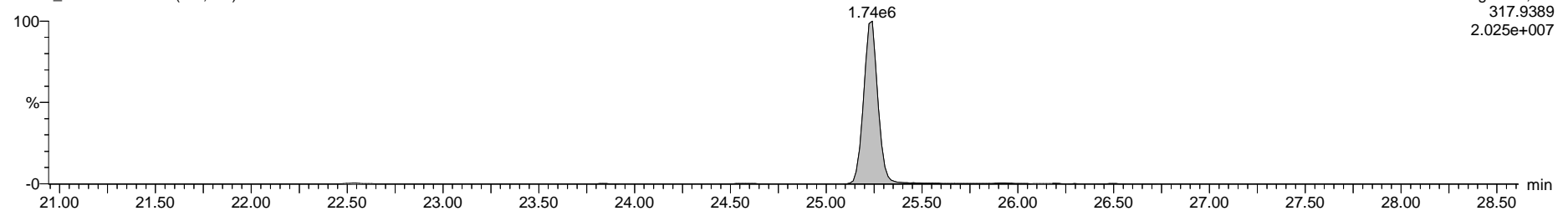


13C-2,3,7,8-TCDF

DX9M_083S14 Smooth(SG,1x2)



DX9M_083S14 Smooth(SG,1x2)

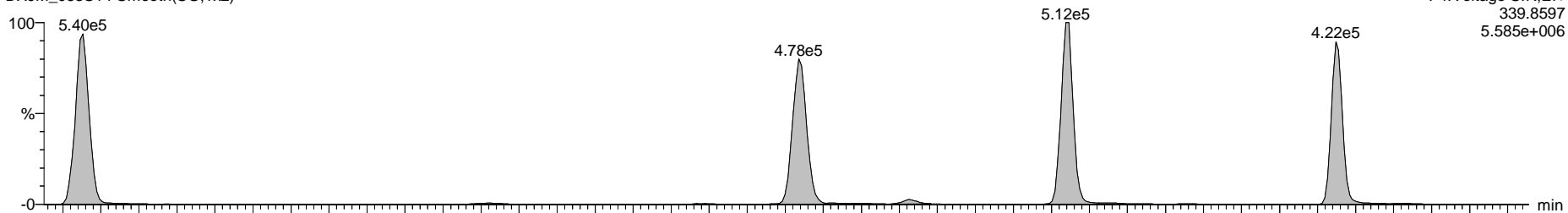


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

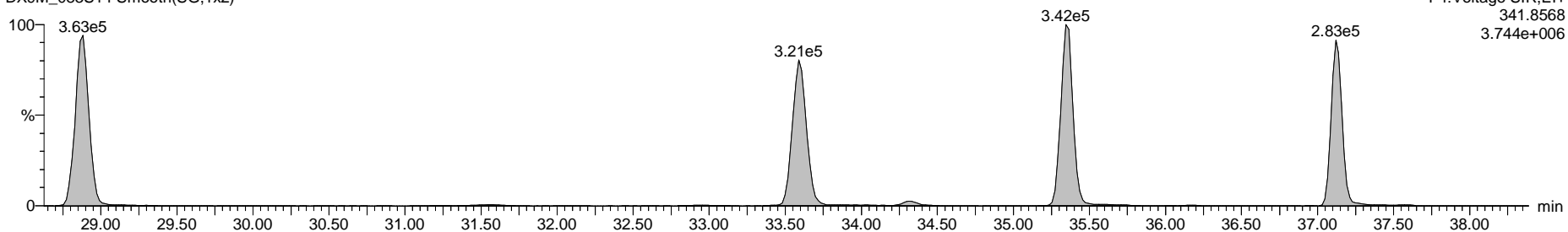
Total Penta-Furans

DX9M_083S14 Smooth(SG,1x2)



F4:Voltage SIR,EI+
339.8597
5.585e+006

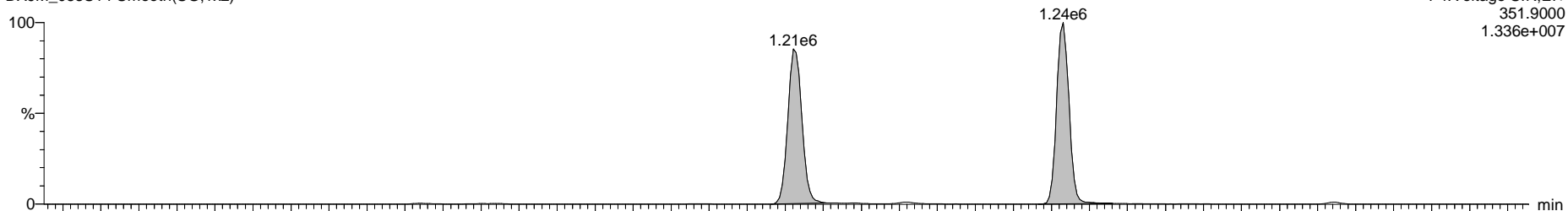
DX9M_083S14 Smooth(SG,1x2)



F4:Voltage SIR,EI+
341.8568
3.744e+006

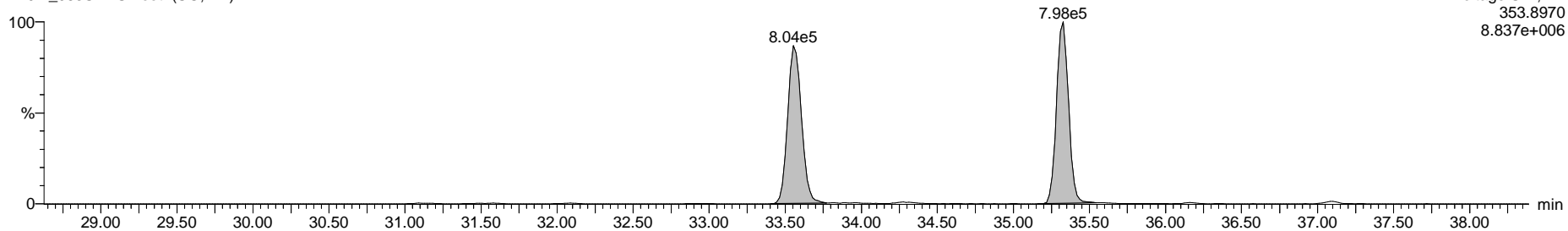
13C-1,2,3,7,8-PeCDF

DX9M_083S14 Smooth(SG,1x2)



F4:Voltage SIR,EI+
351.9000
1.336e+007

DX9M_083S14 Smooth(SG,1x2)



F4:Voltage SIR,EI+
353.8970
8.837e+006

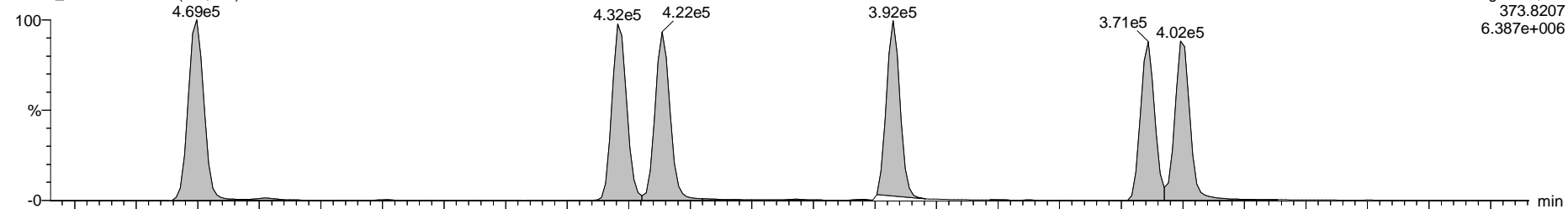


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

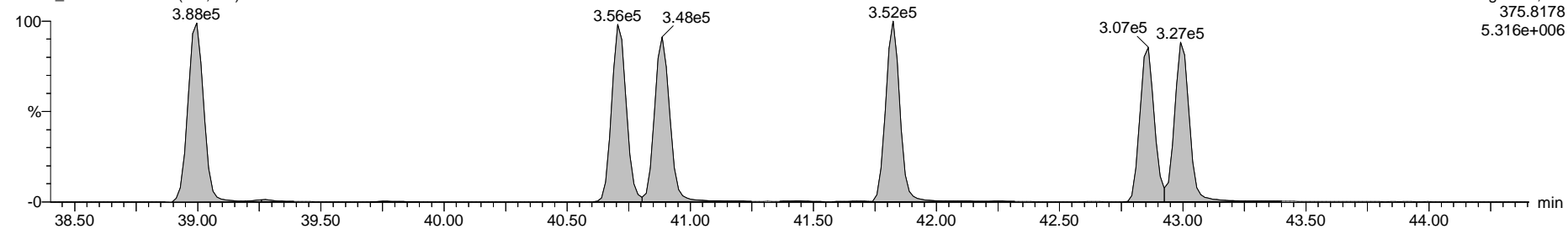
Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

Total Hexa-Furans

DX9M_083S14 Smooth(SG,1x2)

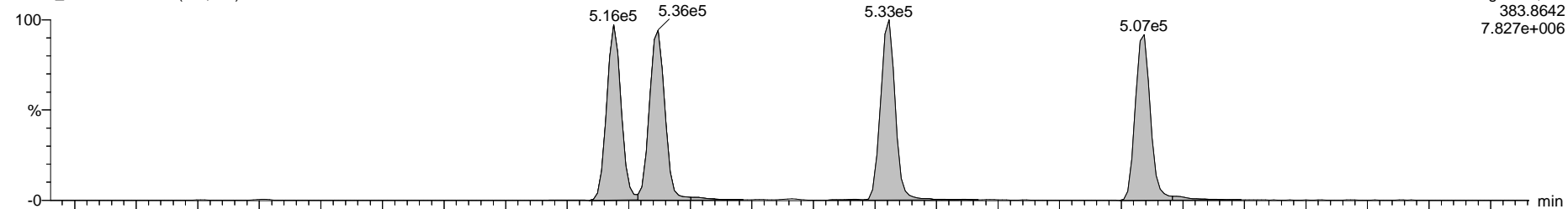


DX9M_083S14 Smooth(SG,1x2)

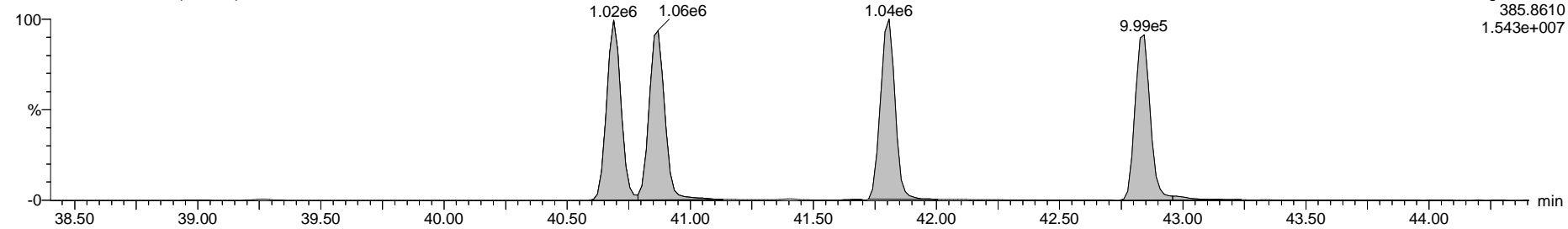


13C-1,2,3,4,7,8-HxCDF

DX9M_083S14 Smooth(SG,1x2)



DX9M_083S14 Smooth(SG,1x2)

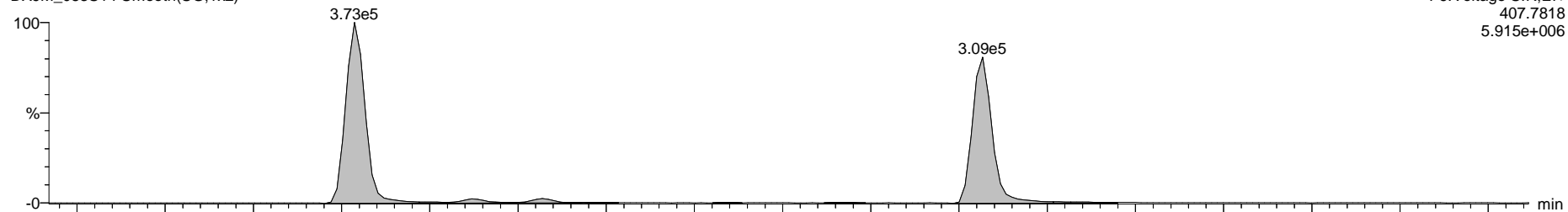


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

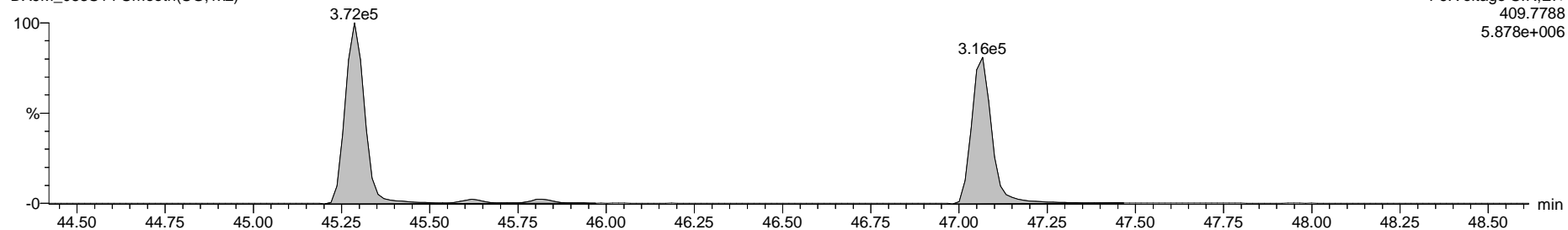
Total Hepta-Furans

DX9M_083S14 Smooth(SG,1x2)



F6:Voltage SIR,EI+
407.7818
5.915e+006

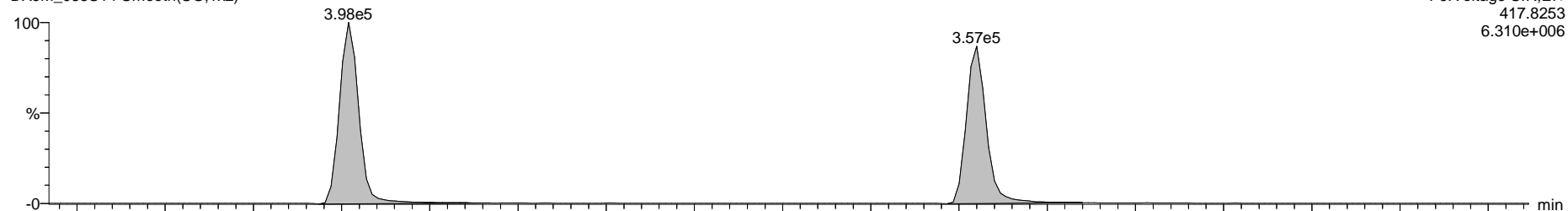
DX9M_083S14 Smooth(SG,1x2)



F6:Voltage SIR,EI+
409.7788
5.878e+006

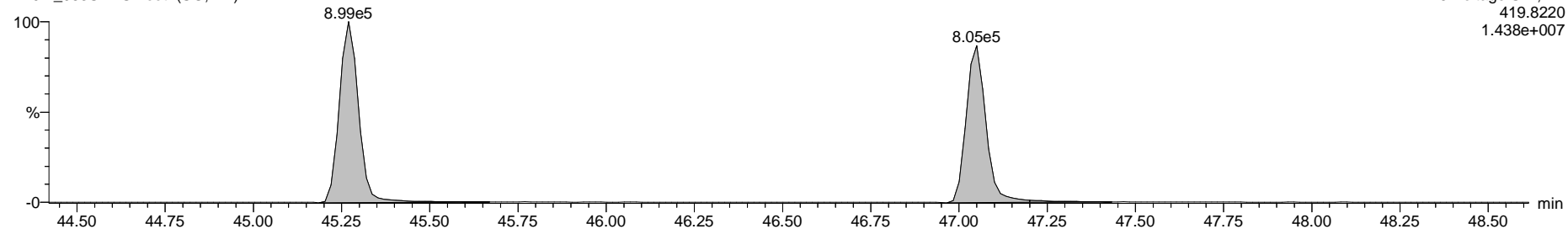
13C-1,2,3,4,6,7,8-HpCDF

DX9M_083S14 Smooth(SG,1x2)



F6:Voltage SIR,EI+
417.8253
6.310e+006

DX9M_083S14 Smooth(SG,1x2)



F6:Voltage SIR,EI+
419.8220
1.438e+007

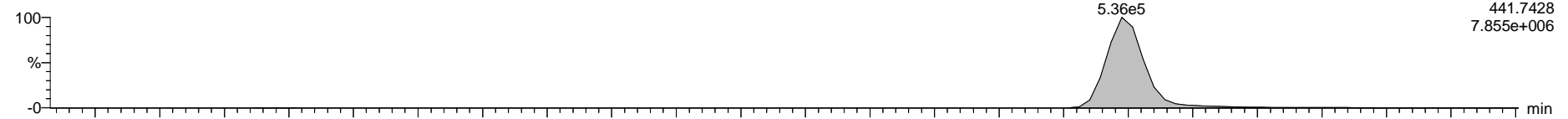


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

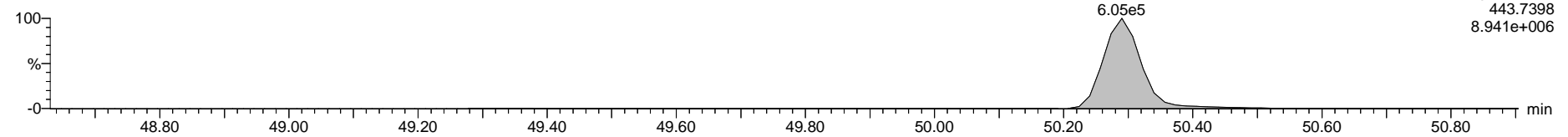
Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

OCDF

DX9M_083S14 Smooth(SG,1x2)

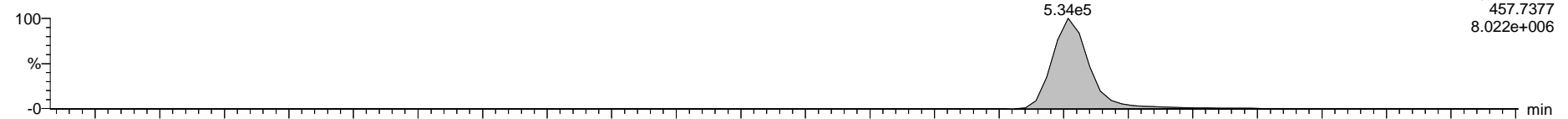


DX9M_083S14 Smooth(SG,1x2)

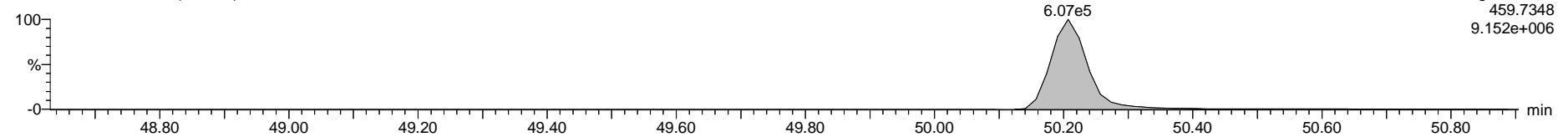


OCDD

DX9M_083S14 Smooth(SG,1x2)

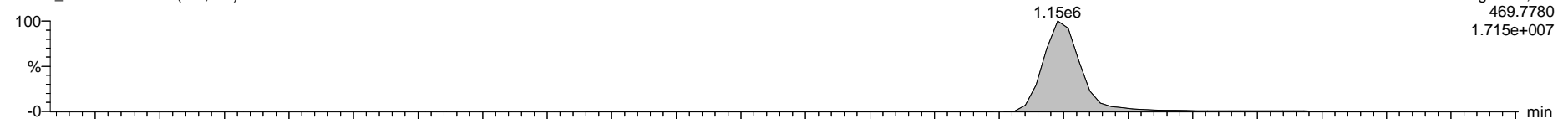


DX9M_083S14 Smooth(SG,1x2)

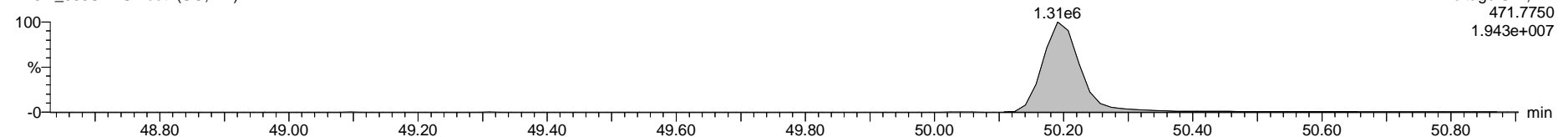


13C-OCDD

DX9M_083S14 Smooth(SG,1x2)



DX9M_083S14 Smooth(SG,1x2)

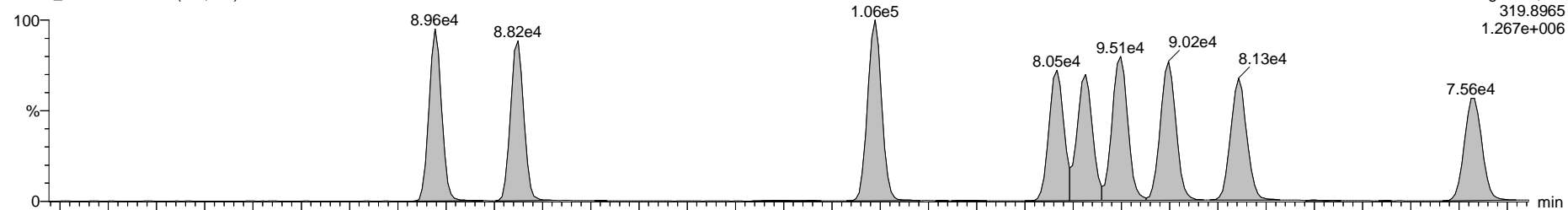


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

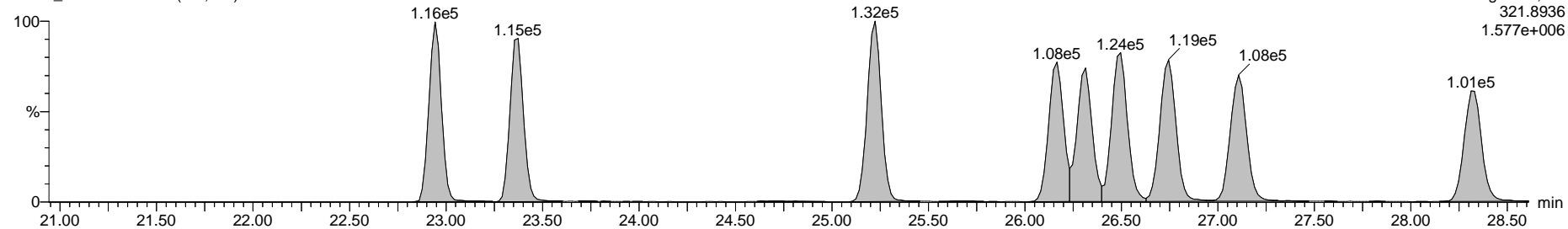
Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

Total Tetra-Dioxins

DX9M_083S14 Smooth(SG,1x2)

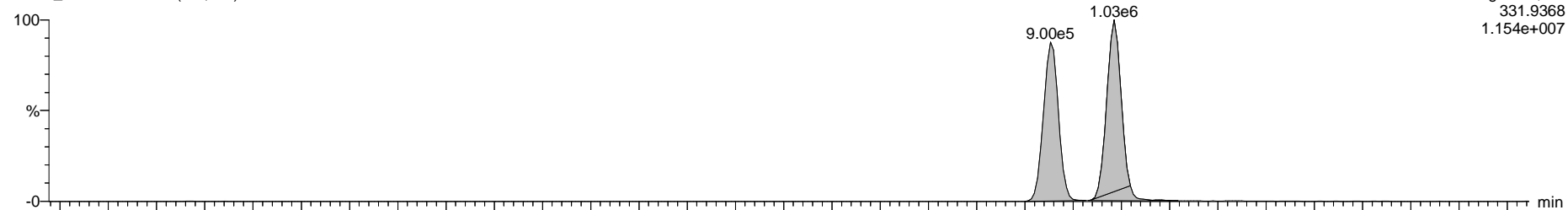


DX9M_083S14 Smooth(SG,1x2)

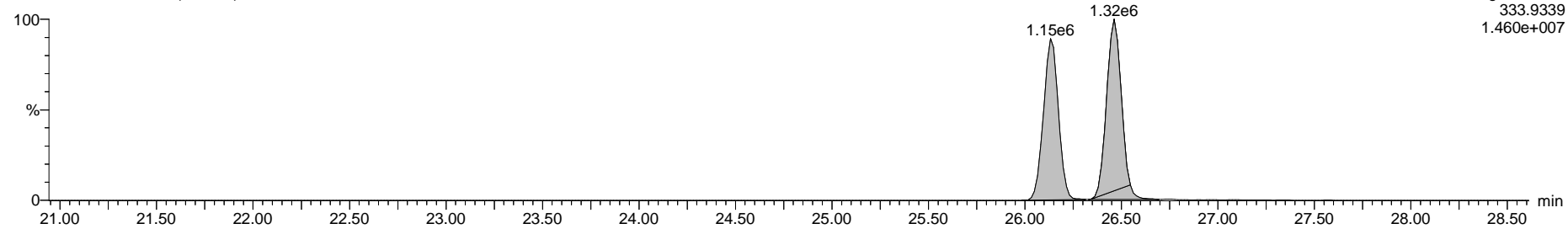


13C-2,3,7,8-TCDD

DX9M_083S14 Smooth(SG,1x2)



DX9M_083S14 Smooth(SG,1x2)

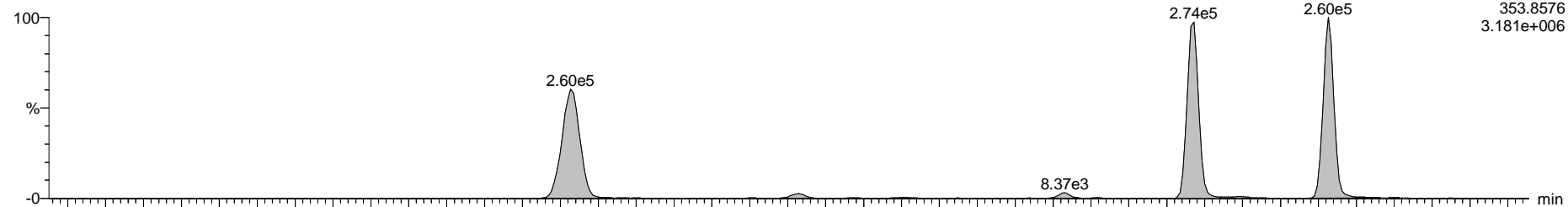


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

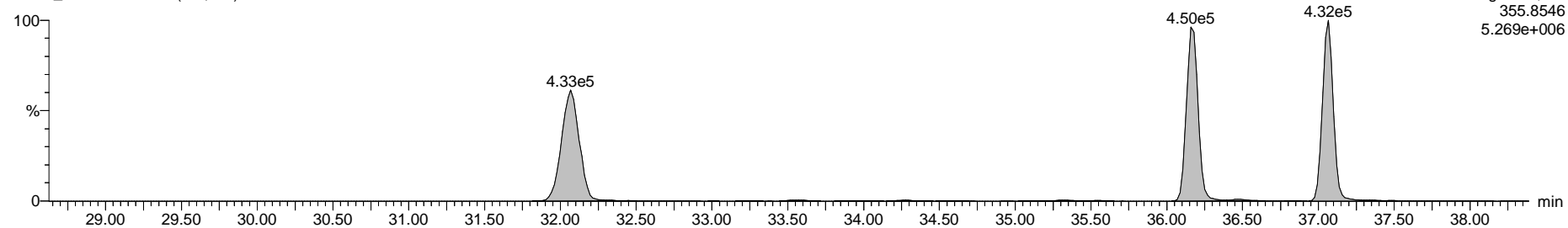
Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

Total Penta-Dioxins

DX9M_083S14 Smooth(SG,1x2)

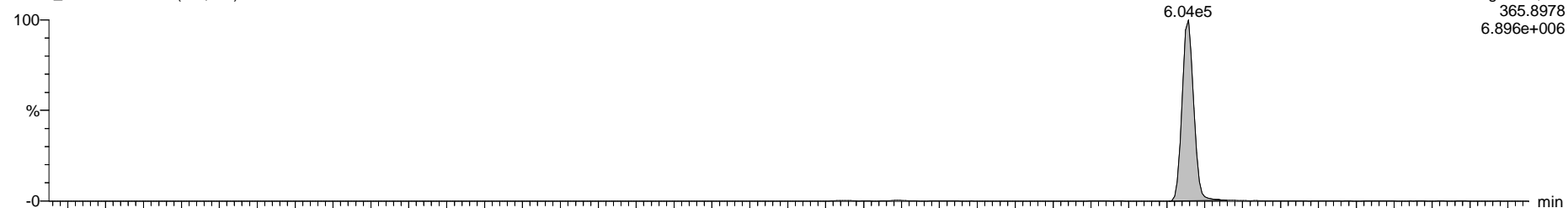


DX9M_083S14 Smooth(SG,1x2)

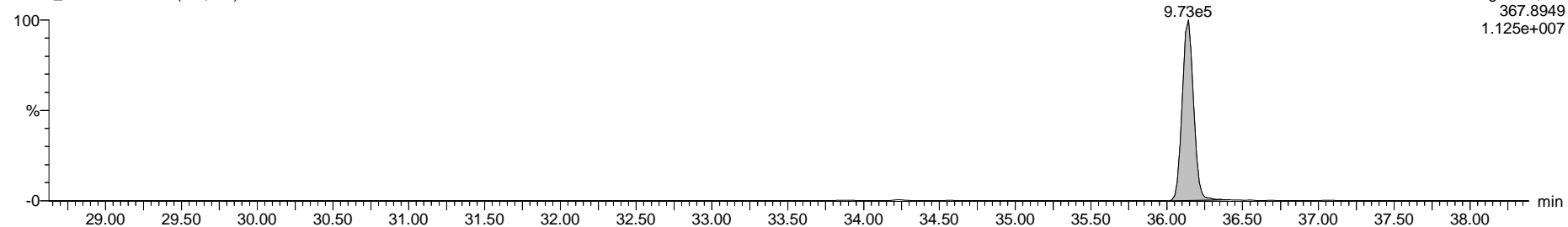


13C-1,2,3,7,8-PeCDD

DX9M_083S14 Smooth(SG,1x2)



DX9M_083S14 Smooth(SG,1x2)

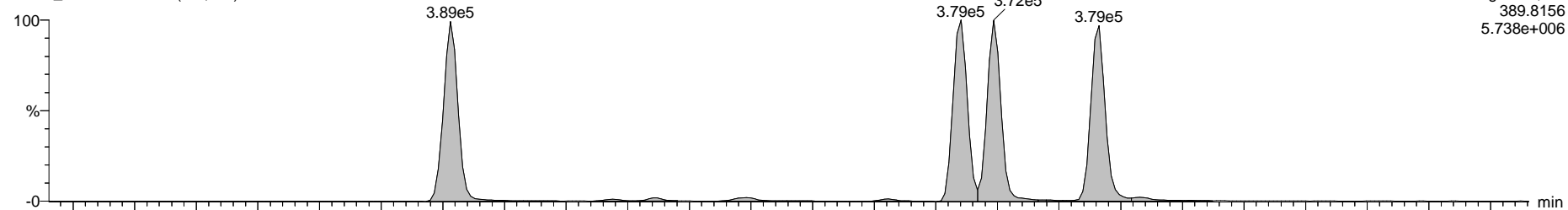


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

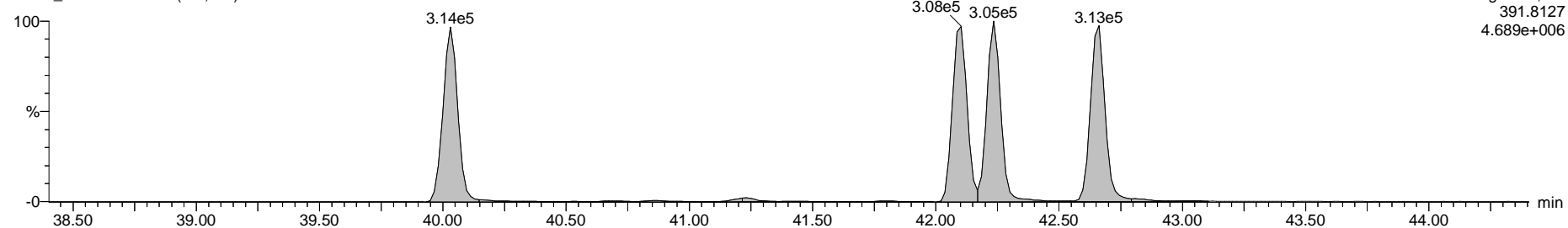
Total Hexa-Dioxins

DX9M_083S14 Smooth(SG,1x2)



F5:Voltage SIR,EI+
389.8156
5.738e+006

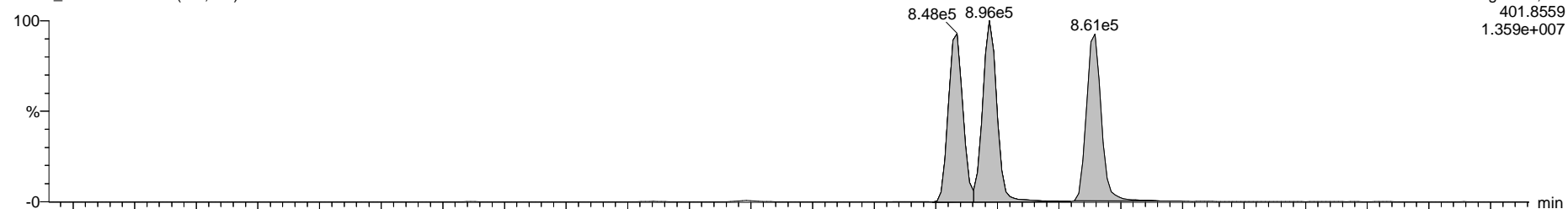
DX9M_083S14 Smooth(SG,1x2)



F5:Voltage SIR,EI+
391.8127
4.689e+006

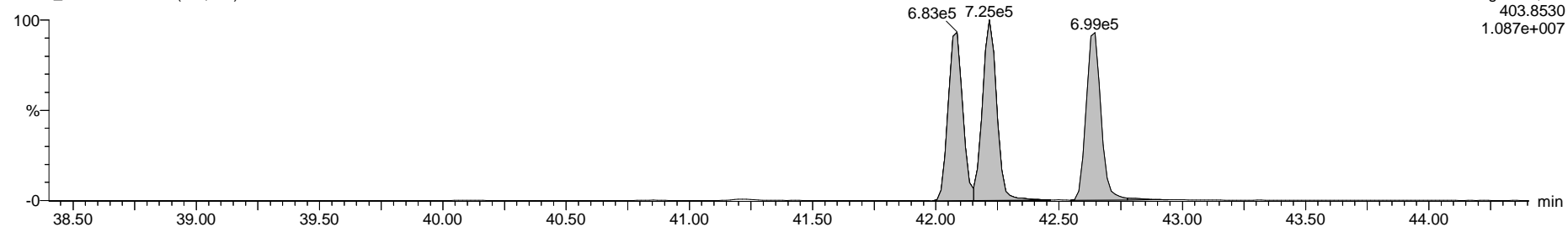
13C-1,2,3,4,7,8-HxCDD

DX9M_083S14 Smooth(SG,1x2)



F5:Voltage SIR,EI+
401.8559
1.359e+007

DX9M_083S14 Smooth(SG,1x2)



F5:Voltage SIR,EI+
403.8530
1.087e+007

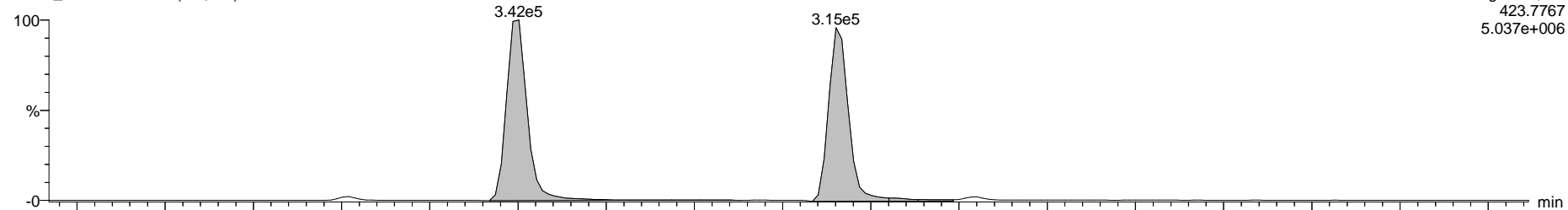


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

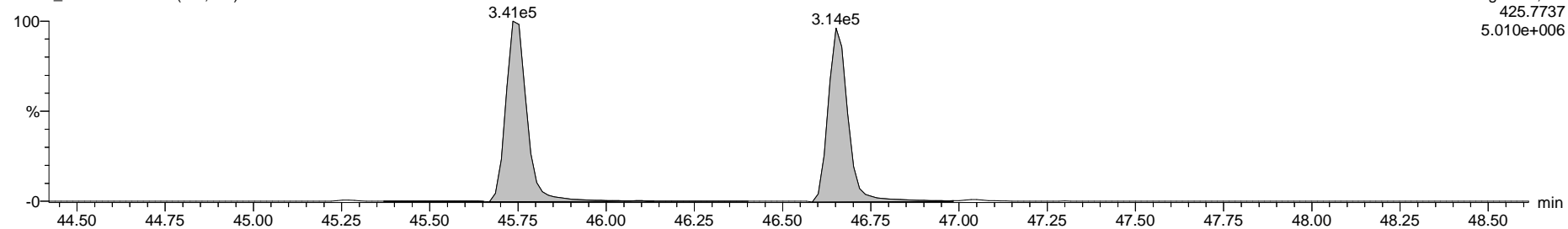
Total Hepta-Dioxins

DX9M_083S14 Smooth(SG,1x2)



F6:Voltage SIR,EI+
423.7767
5.037e+006

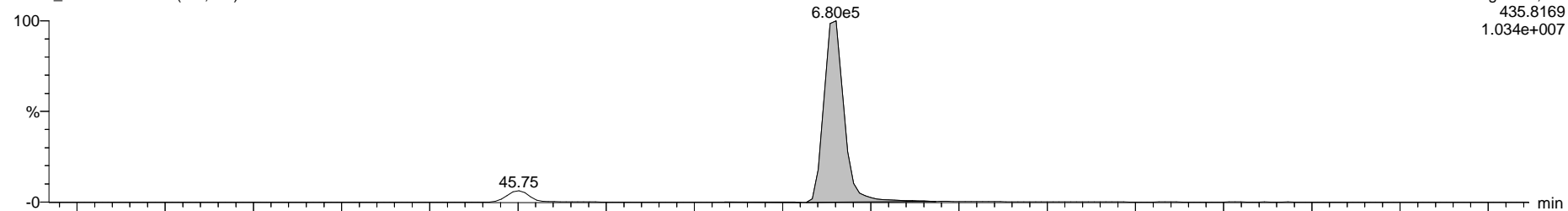
DX9M_083S14 Smooth(SG,1x2)



F6:Voltage SIR,EI+
425.7737
5.010e+006

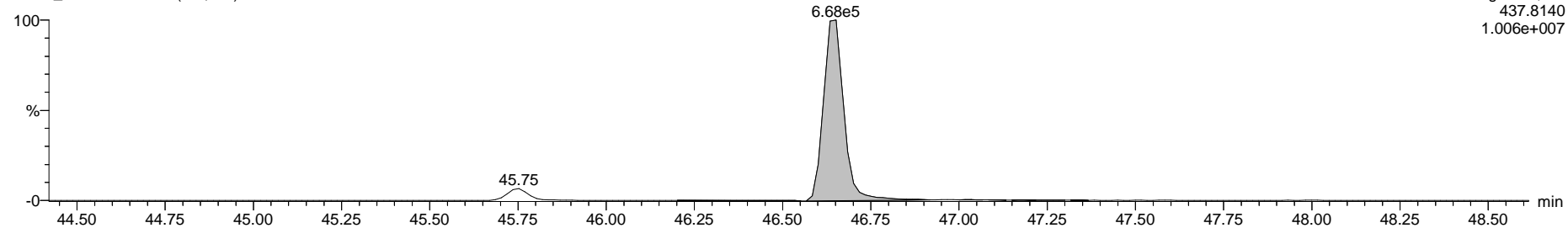
13C-1,2,3,4,6,7,8-HpCDD

DX9M_083S14 Smooth(SG,1x2)



F6:Voltage SIR,EI+
435.8169
1.034e+007

DX9M_083S14 Smooth(SG,1x2)



F6:Voltage SIR,EI+
437.8140
1.006e+007

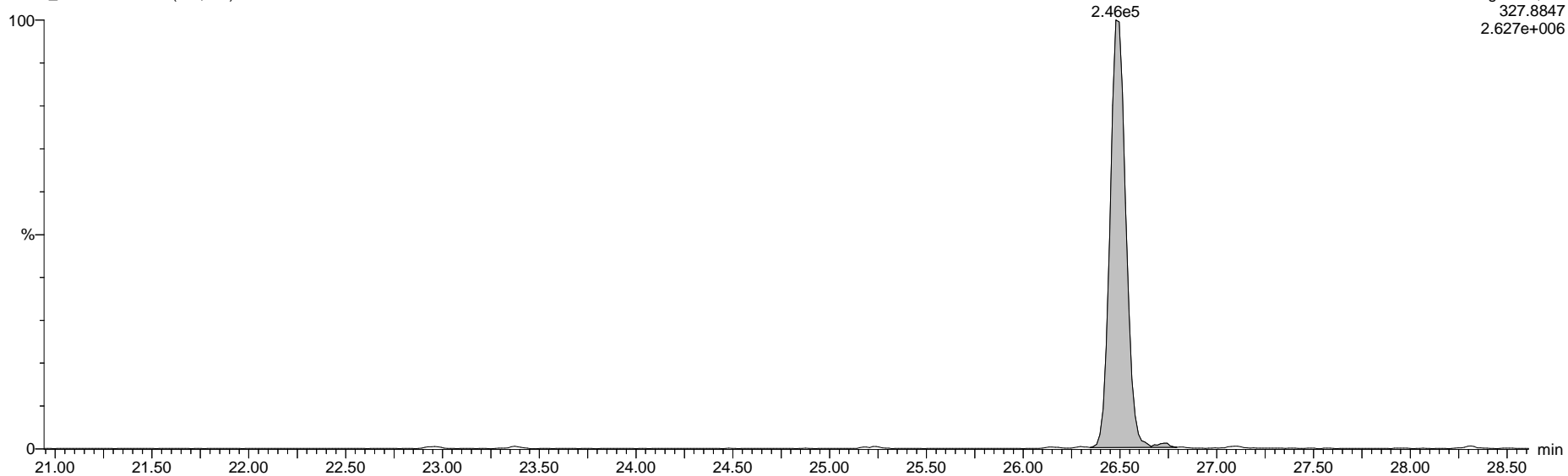


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

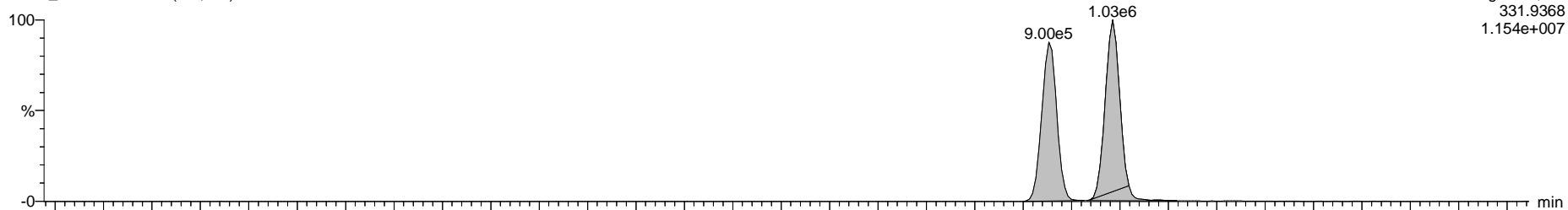
37Cl-2,3,7,8-TCDD

DX9M_083S14 Smooth(SG,1x2)

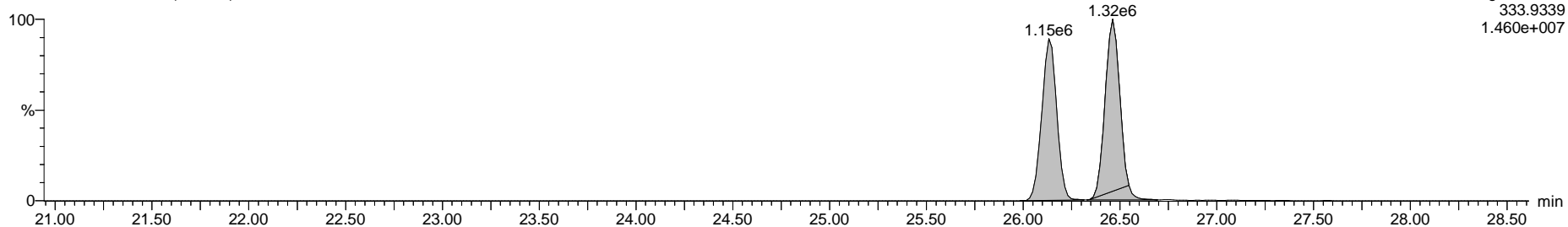


13C-1,2,3,4-TCDD

DX9M_083S14 Smooth(SG,1x2)



DX9M_083S14 Smooth(SG,1x2)



PV WL 15-JUL-2009

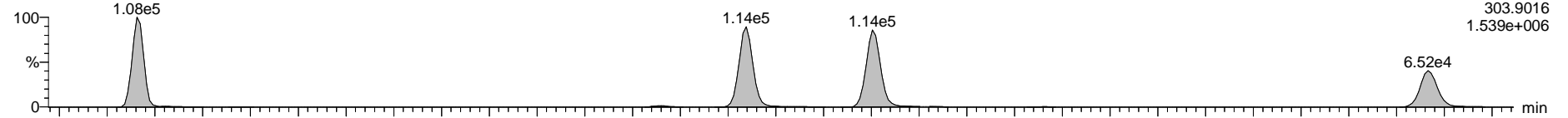


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

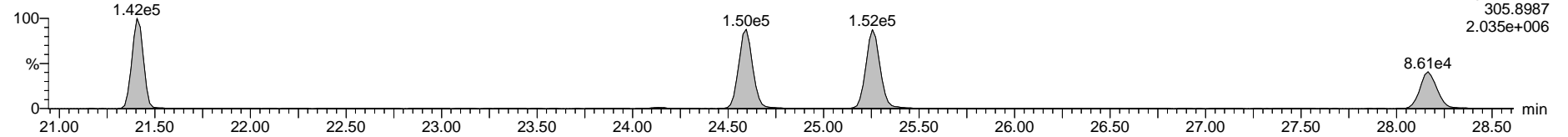
Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

Total Tetra-Furans

DX9M_083S14 Smooth(SG,1x2)

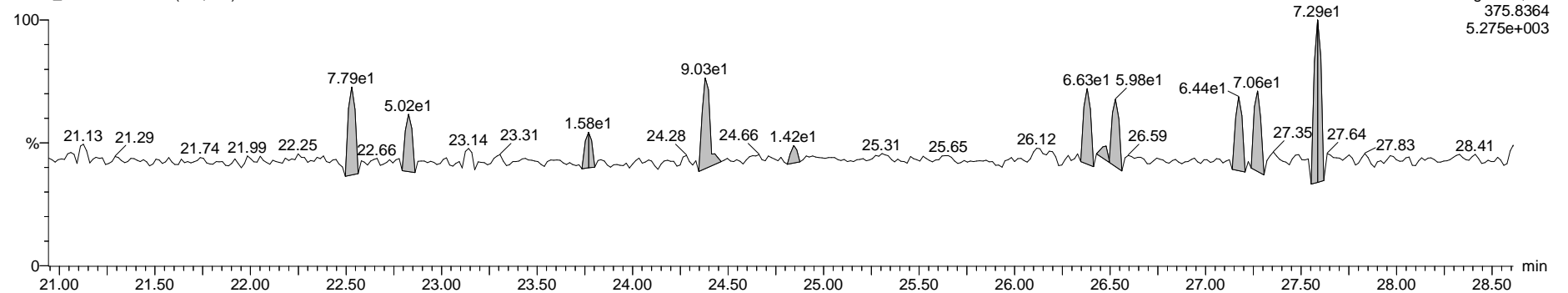


DX9M_083S14 Smooth(SG,1x2)



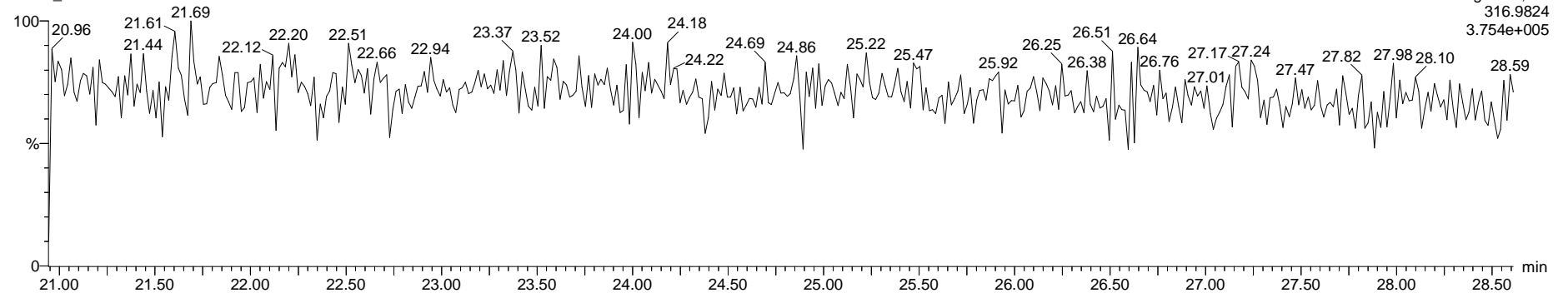
Hexa DPE

DX9M_083S14 Smooth(SG,1x2)



Tetra Lock

DX9M_083S14



PV WL 15-JUL-2009

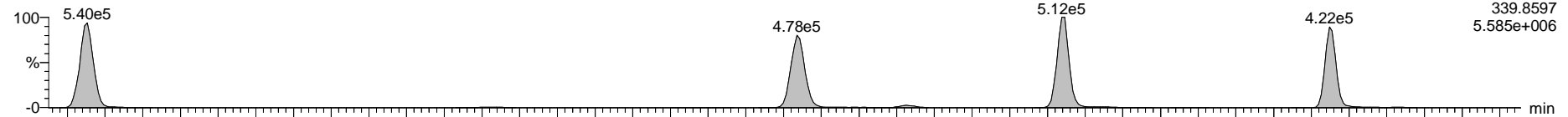


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

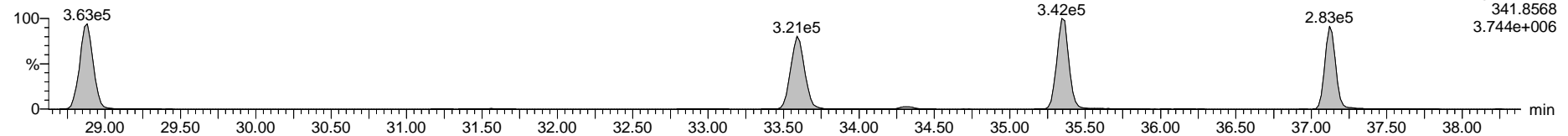
Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

Total Penta-Furans

DX9M_083S14 Smooth(SG,1x2)

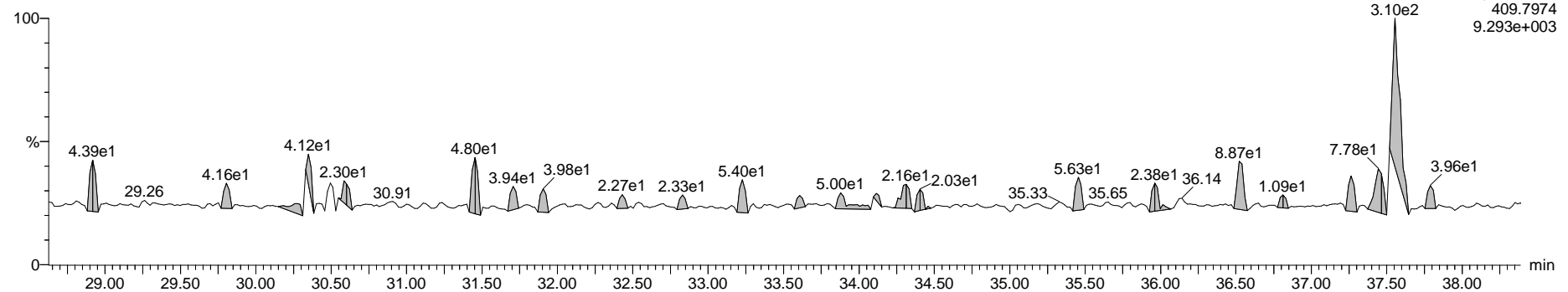


DX9M_083S14 Smooth(SG,1x2)



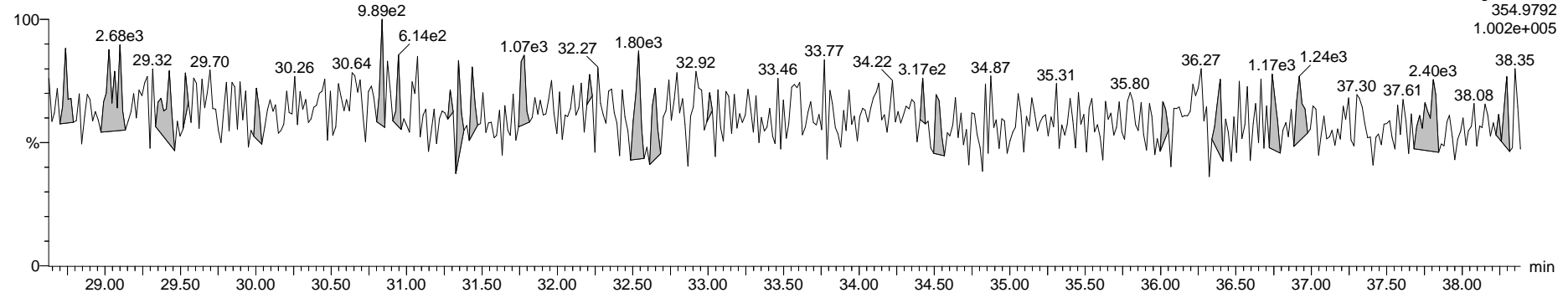
Hepta DPE

DX9M_083S14 Smooth(SG,1x2)



Penta Lock

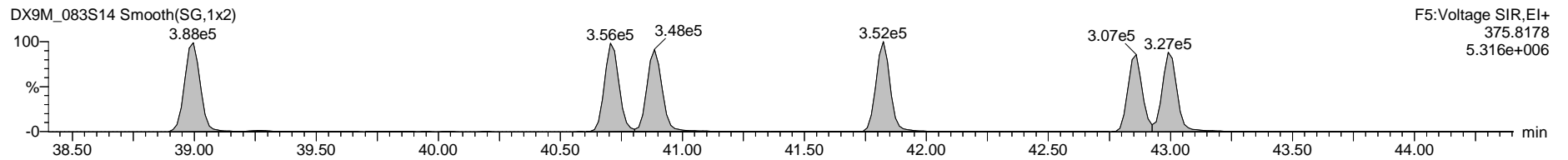
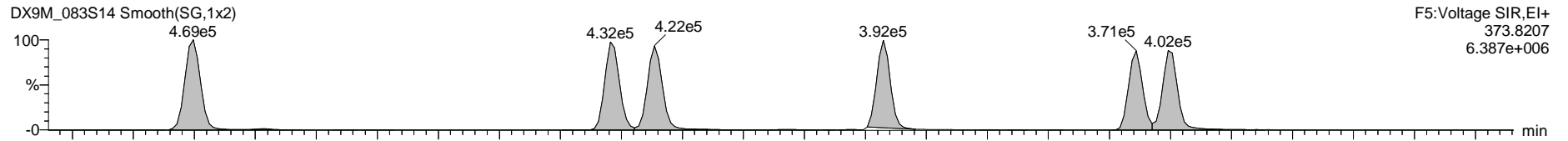
DX9M_083S14



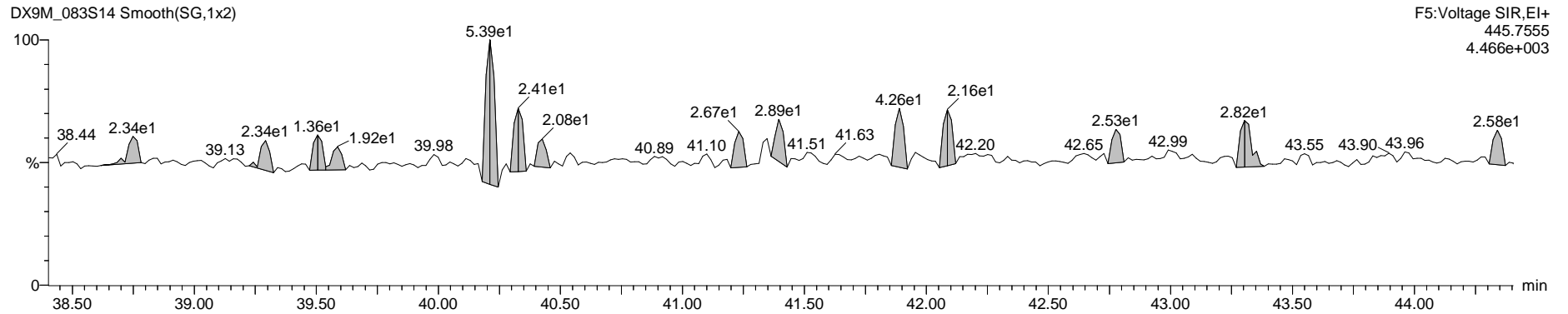
Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

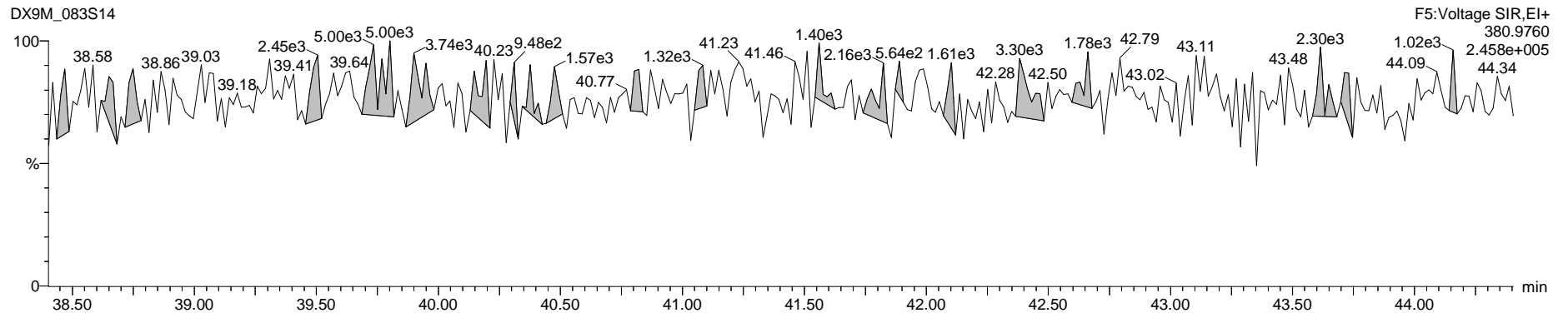
Total Hexa-Furans



Octa DPE



Hexa Lock

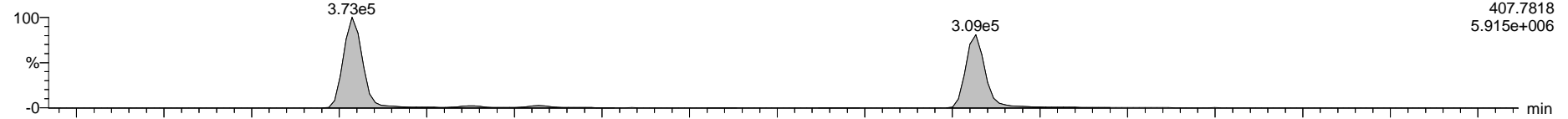


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

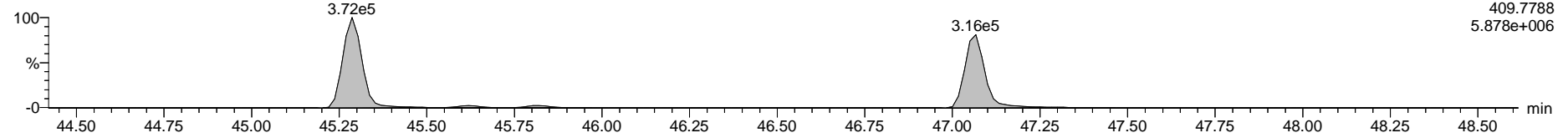
Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

Total Hepta-Furans

DX9M_083S14 Smooth(SG,1x2)

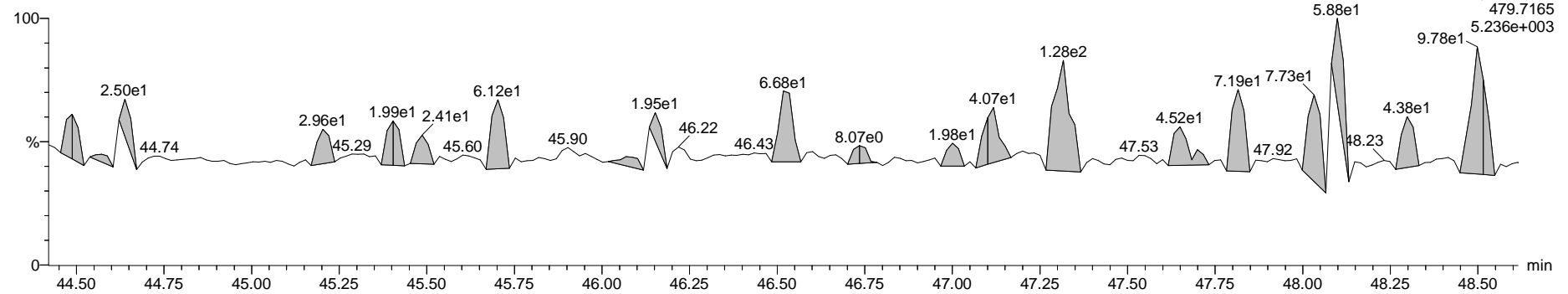


DX9M_083S14 Smooth(SG,1x2)



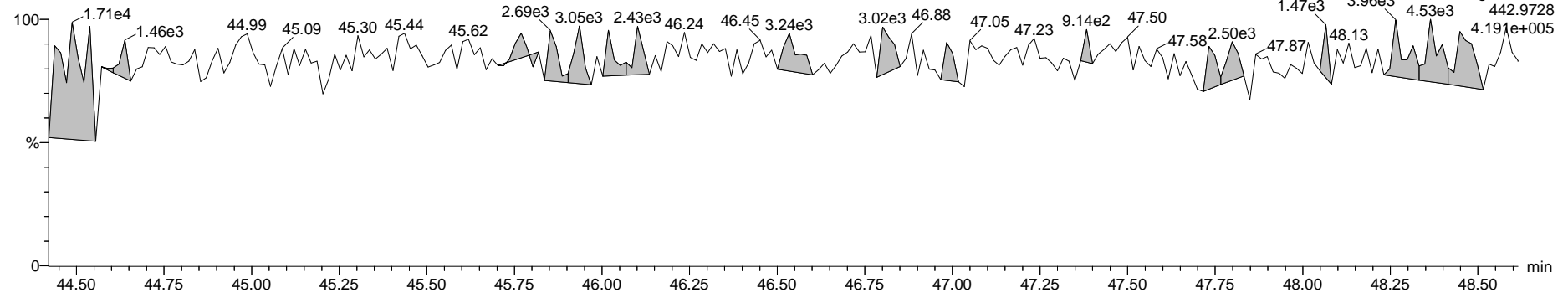
Nona DPE

DX9M_083S14 Smooth(SG,1x2)



Hepta Lock

DX9M_083S14



PV WL 15-JUL-2009

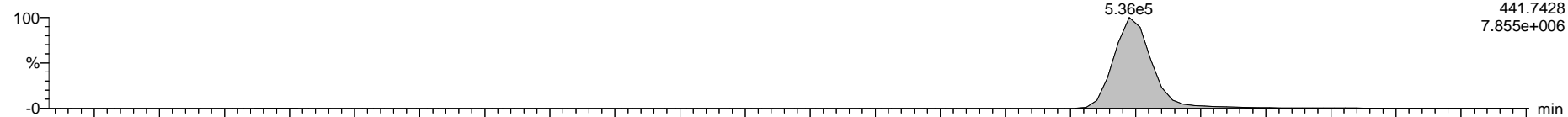


Dataset: G:\Masslynx\Inst_M\Projects\090619DX.PRO\DX9M_083-C.qld

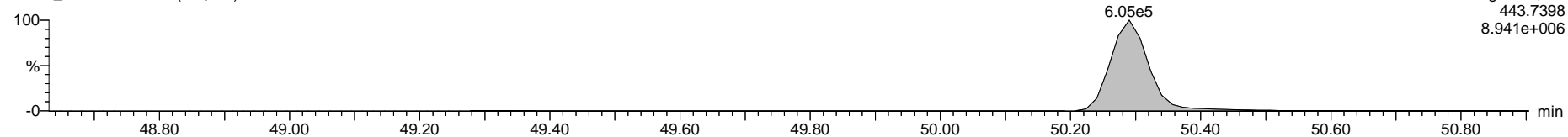
Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL, /01-22, Description: 1,,1.0uL Cal Win/Res

OCDF

DX9M_083S14 Smooth(SG,1x2)

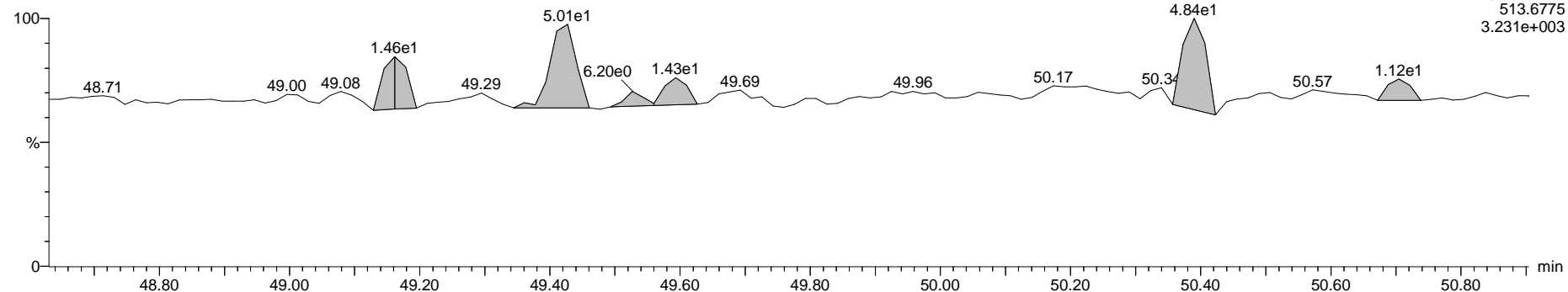


DX9M_083S14 Smooth(SG,1x2)



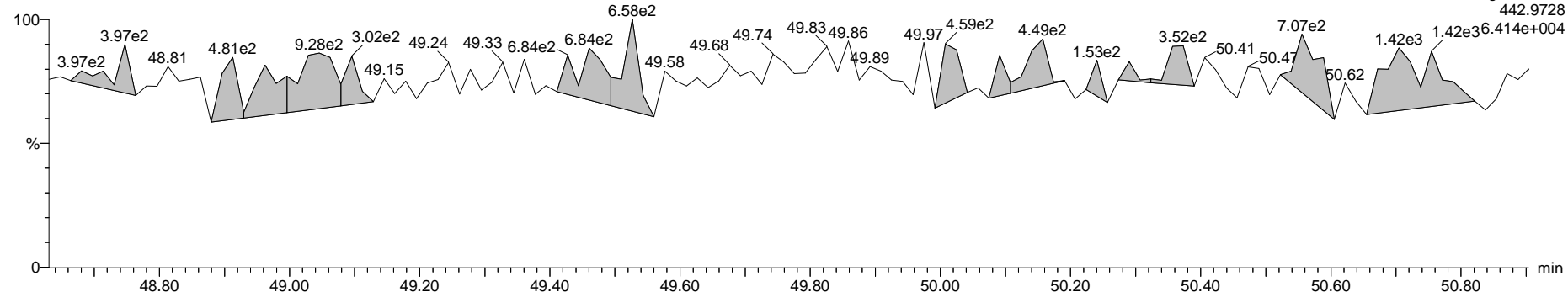
Deca DPE

DX9M_083S14 Smooth(SG,1x2)



Octa Lock

DX9M_083S14



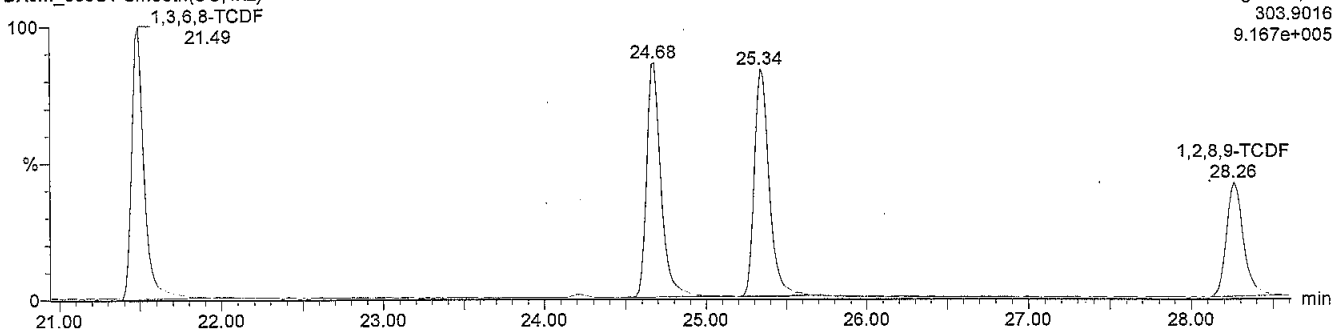
Axys Analytical Services, Ltd.
Quantify Sample Report MassLynx 4.1

Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

1,3,6,8-TCDF

DX9M_083S1 Smooth(SG,1x2)

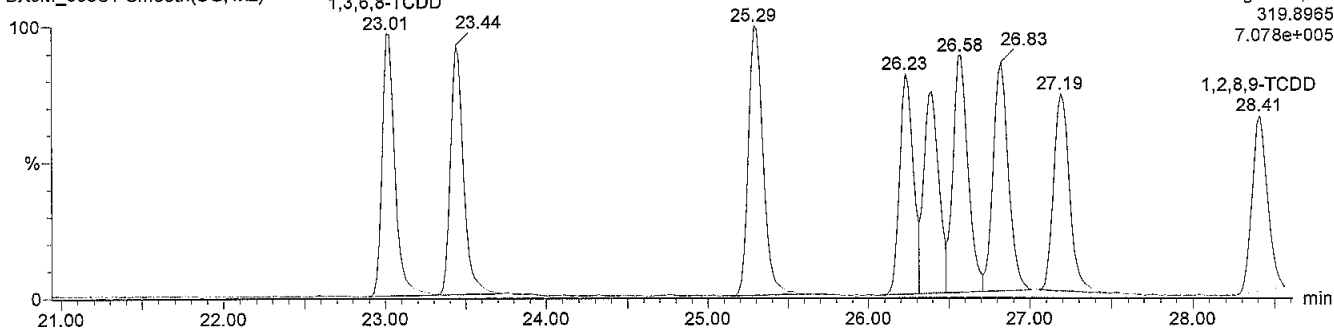
F3:Voltage SIR,EI+
303.9016
9.167e+005



1,3,6,8-TCDD

DX9M_083S1 Smooth(SG,1x2)

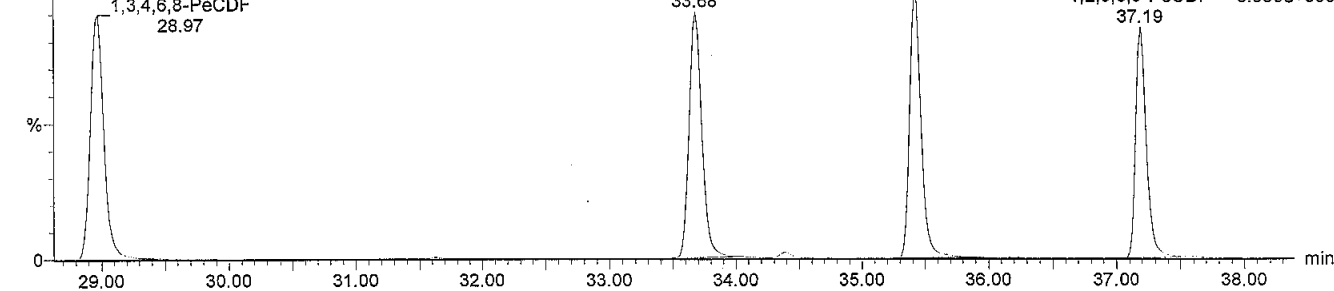
F3:Voltage SIR,EI+
319.8965
7.078e+005



1,3,4,6,8-PeCDF

DX9M_083S1 Smooth(SG,1x2)

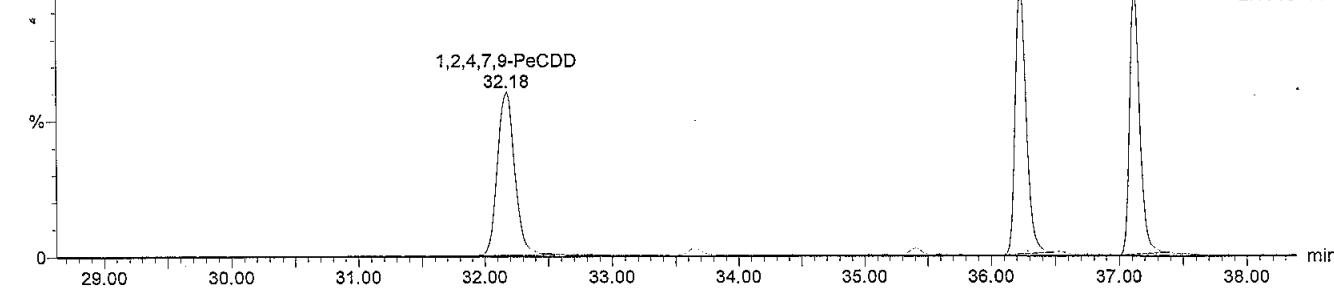
F4:Voltage SIR,EI+
339.8597
3.855e+006



1,2,4,7,9-PeCDD

DX9M_083S1 Smooth(SG,1x2)

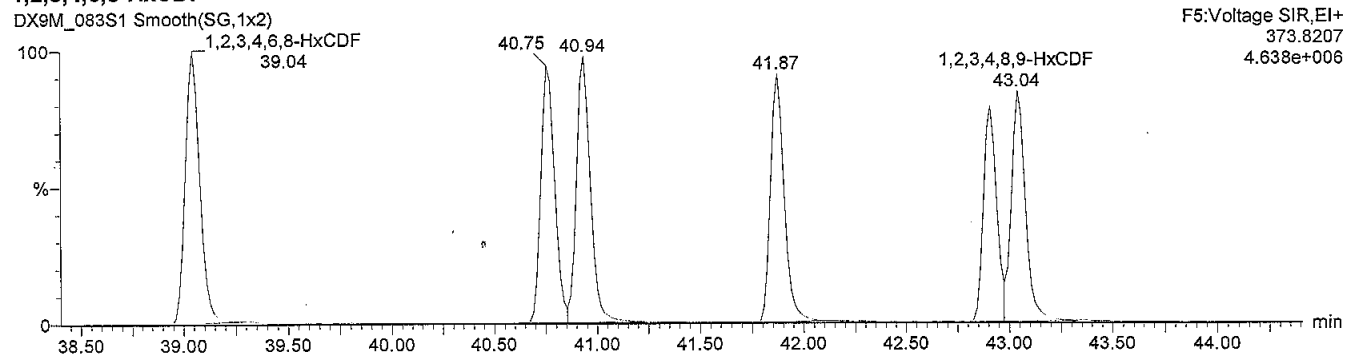
F4:Voltage SIR,EI+
353.8576
2.101e+006



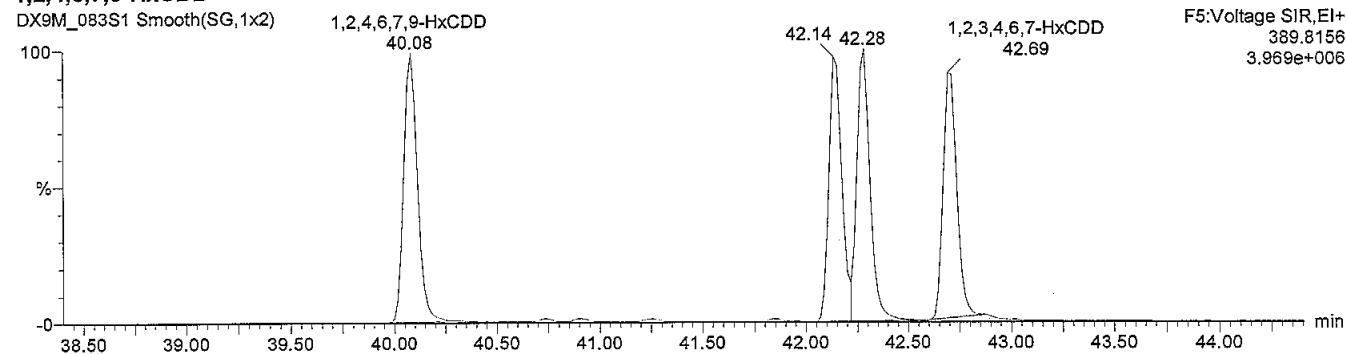
Axys Analytical Services, Ltd.
Quantify Sample Report MassLynx 4.1

Name: DX9M_083S1, Date: 10-Jul-2009, Time: 08:18:53, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

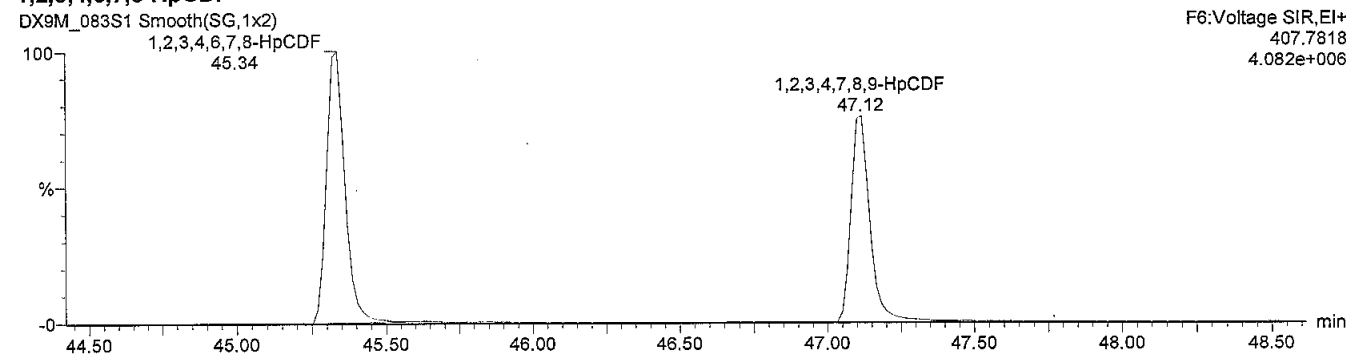
1,2,3,4,6,8-HxCDF



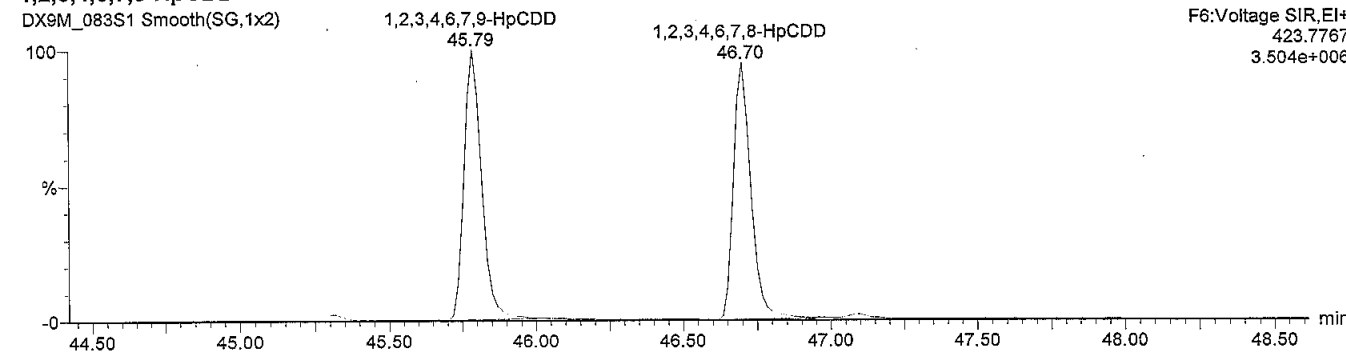
1,2,4,6,7,9-HxCDD



1,2,3,4,6,7,8-HpCDF

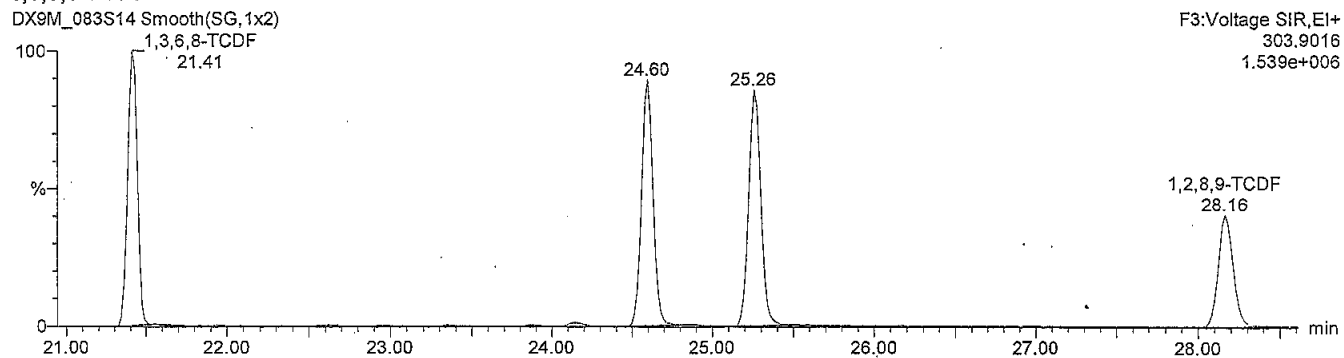


1,2,3,4,6,7,9-HpCDD

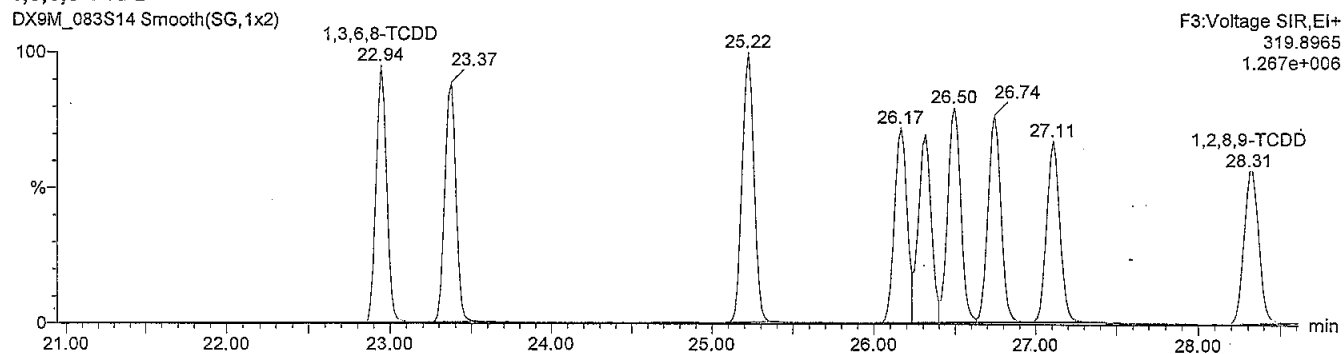


Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

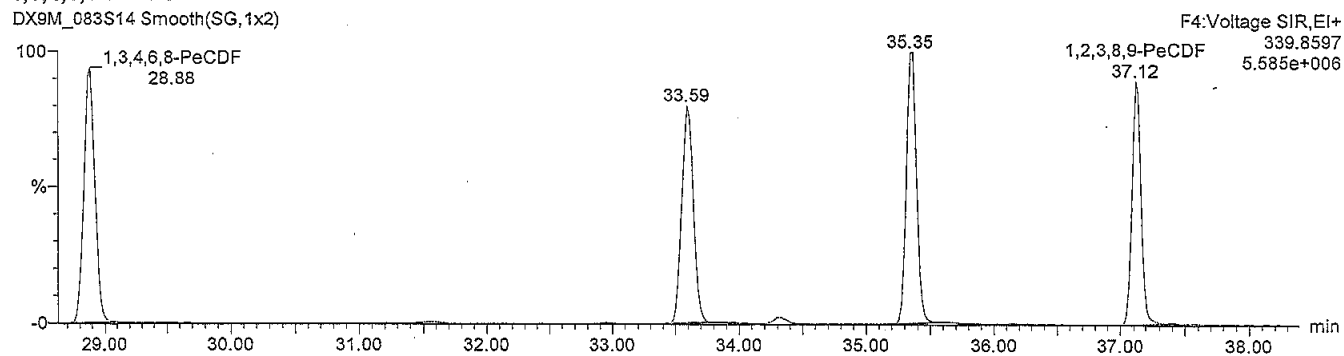
1,3,6,8-TCDF



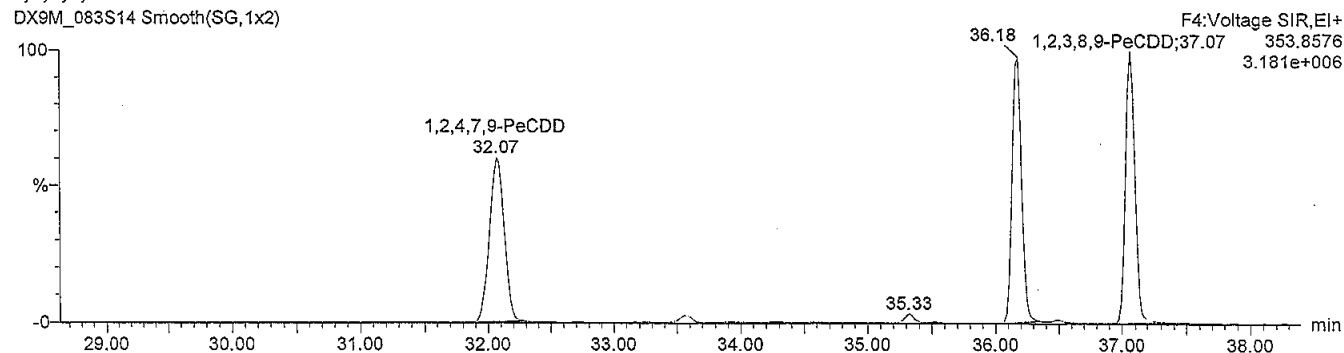
1,3,6,8-TCDD



1,3,4,6,8-PeCDF



1,2,4,7,9-PeCDD

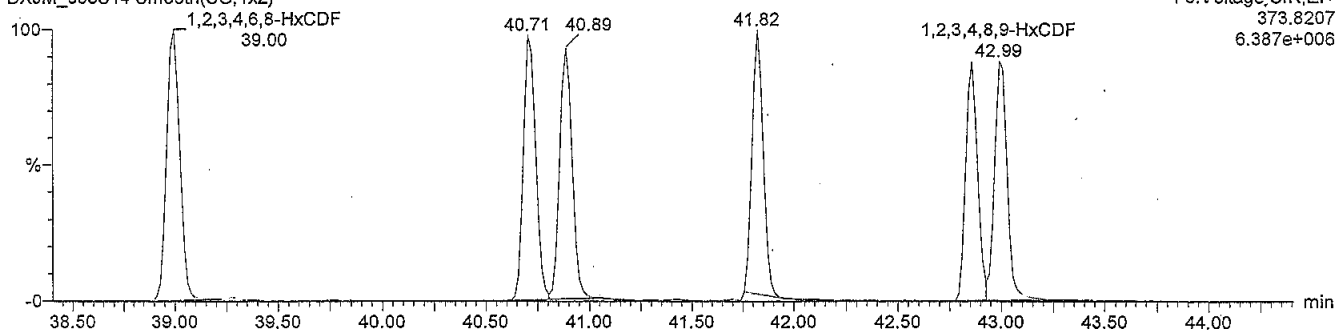


Name: DX9M_083S14, Date: 10-Jul-2009, Time: 20:37:20, ID: DX036D-CAL,,/01-22, Description: 1,,1.0uL Cal Win/Res

1,2,3,4,6,8-HxCDF

DX9M_083S14 Smooth(SG,1x2)

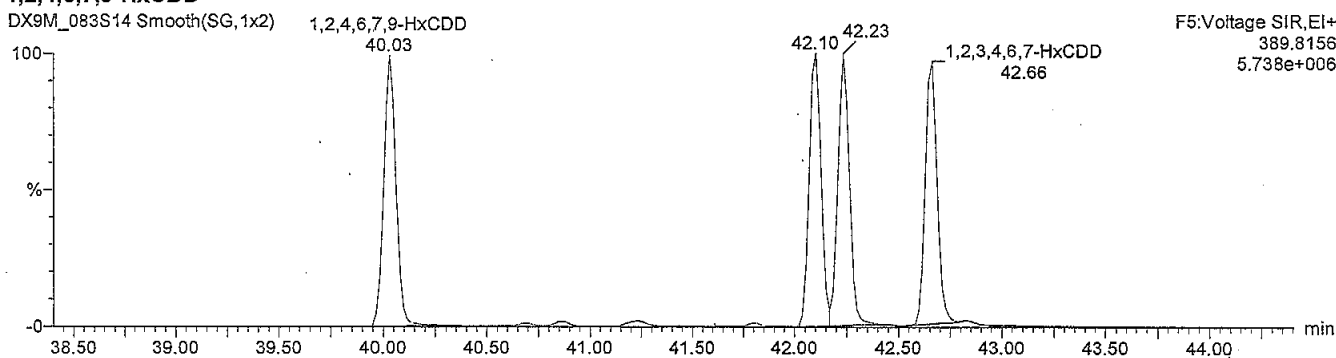
F5:Voltage,SIR,EI+
373.8207
6.387e+006



1,2,4,6,7,9-HxCDD

DX9M_083S14 Smooth(SG,1x2)

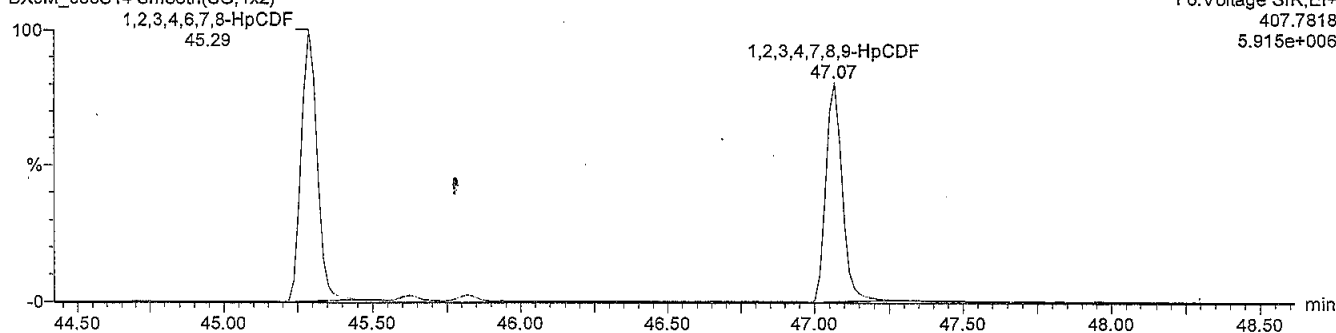
F5:Voltage,SIR,EI+
389.8156
5.738e+006



1,2,3,4,6,7,8-HpCDF

DX9M_083S14 Smooth(SG,1x2)

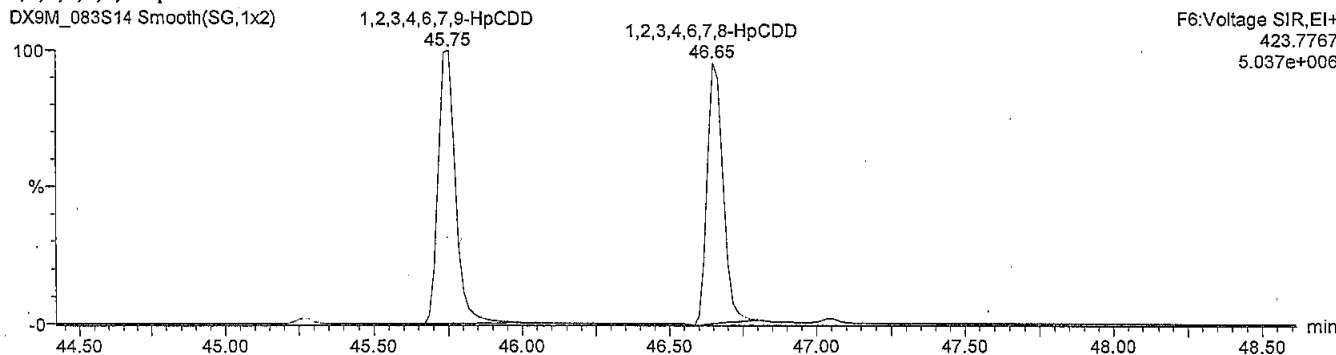
F6:Voltage,SIR,EI+
407.7818
5.915e+006



1,2,3,4,6,7,9-HpCDD

DX9M_083S14 Smooth(SG,1x2)

F6:Voltage,SIR,EI+
423.7767
5.037e+006



Experiment : DX-DB225-1_03 Temps -source: 250
 GC Program : DX-DB225-1_02 -s resv: 160
 Column type : DB-225 -re_ent: 220
 Serial # : US5436814H+5M -cap_1 : 220
 kPa : 180 -cap_2 : 220
 Vol injected: 2.0uL
 PMT Voltage : 399

Tune :
 List : RT
 Check :
 LIMS :
 Logfile:
 Date -list : 10-Jul-2009
 -liner : 08-Jul-2009
 -septum: 08-Jul-2009
 -guard : 60cm 17-Jun-09
 -column: COMB 09-JUL-09
 -t line: 31cm 24-Jun-09

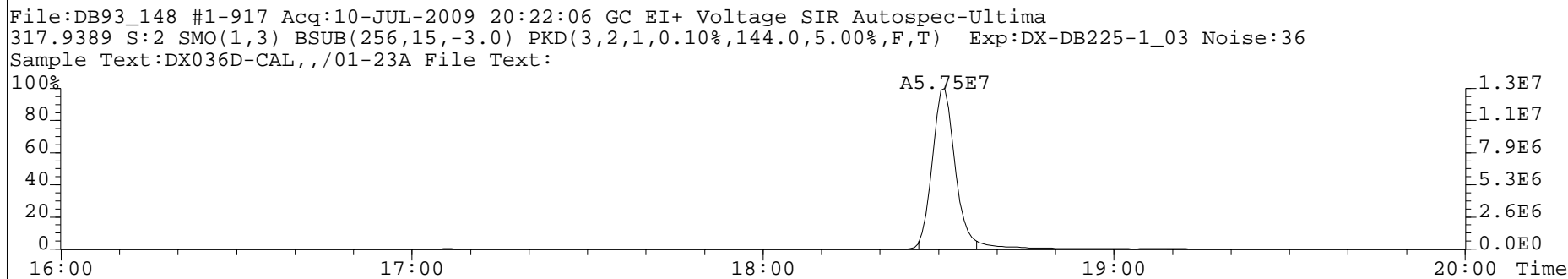
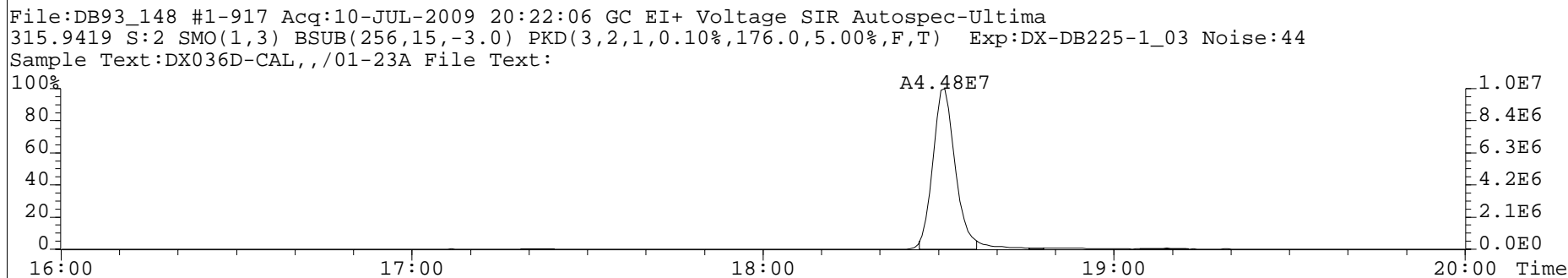
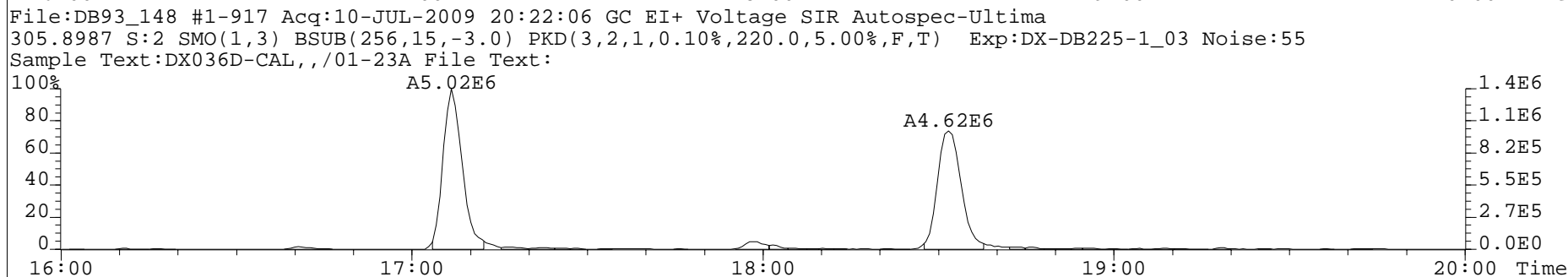
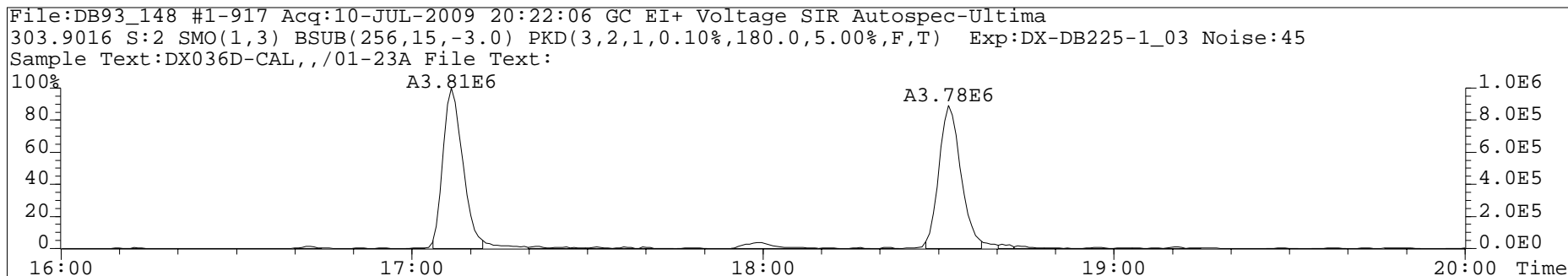
#	Data file	S	V	Sample Text	Comments	Acquisition Date/Time
1	DB93_148	1	1	DX001A-RSN,,/02-13	1,,2.0uL	10-JUL-09 19:46:31
2	DB93_148	2	2	DX036D-CAL,,/01-23A	1,,2.0uL Cal	10-JUL-09 20:22:06
3	DB93_148	3	3	Toluene,,	1,,2.0uL	10-JUL-09 20:57:46
4	DB93_148	4	4	Toluene,,	1,,2.0uL	10-JUL-09 21:33:26
5	DB93_148	5	5	WG29271-101,,Blank	1,WG29271,2.0/20uL	10-JUL-09 22:09:06
6	DB93_148	6	6	L12912-1,,	1,WG29271,2.0/20uL	10-JUL-09 22:44:45
7	DB93_148	7	7	L12912-2,,	1,WG29271,2.0/20uL	10-JUL-09 23:20:25
8	DB93_148	8	8	L12912-3,,	1,WG29271,2.0/20uL	10-JUL-09 23:56:00
9	DB93_148	9	9	L12912-4,,	1,WG29271,2.0/20uL	11-JUL-09 00:31:39
10	DB93_148	10	10	L12912-5,,	1,WG29271,2.0/20uL	11-JUL-09 01:07:18
11	DB93_148	11	11	L12912-6,,	1,WG29271,2.0/20uL	11-JUL-09 01:42:57
12	DB93_148	12	12	L12912-7,,	1,WG29271,2.0/20uL	11-JUL-09 02:18:35
13	DB93_148	13	13	L12912-8,,	1,WG29271,2.0/20uL	11-JUL-09 02:54:14
14	DB93_148	14	14	L12960-17,,	1,WG29263,2.0/20uL	11-JUL-09 03:29:52
15	DB93_148	15	15	L12960-18,,	1,WG29263,2.0/20uL	11-JUL-09 04:05:31
16	DB93_148	16	16	DX036D-CAL,,/01-23A	1,,2.0uL Cal	11-JUL-09 04:41:09

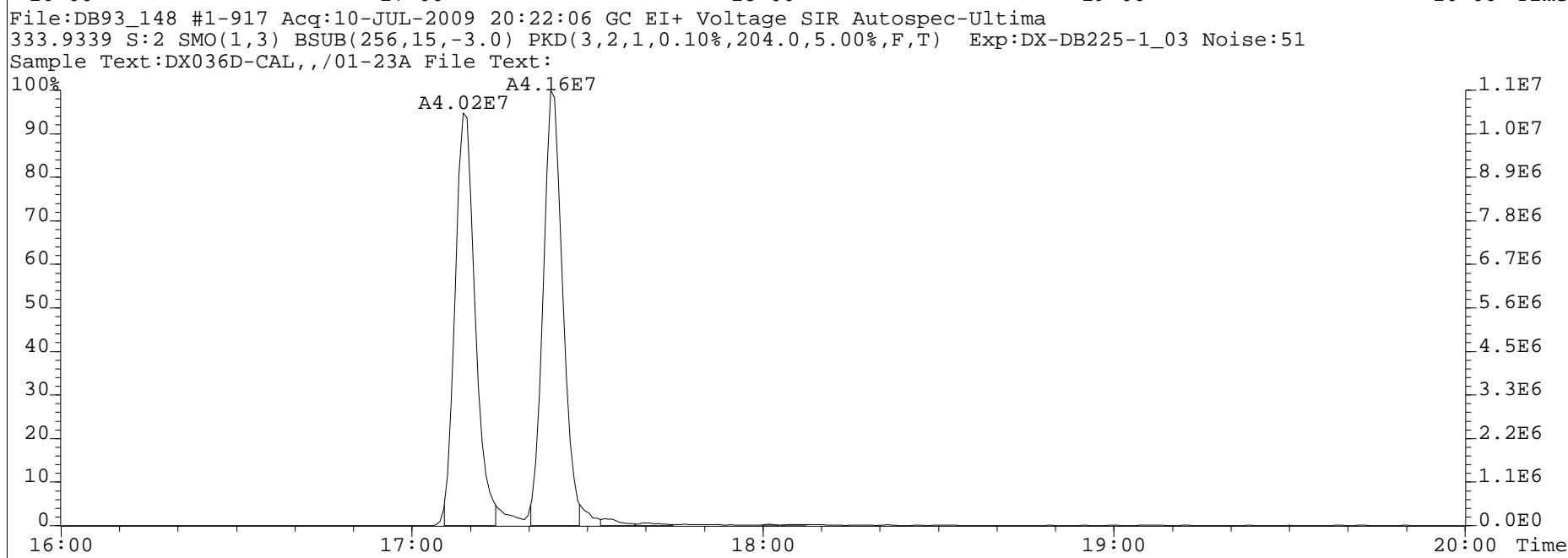
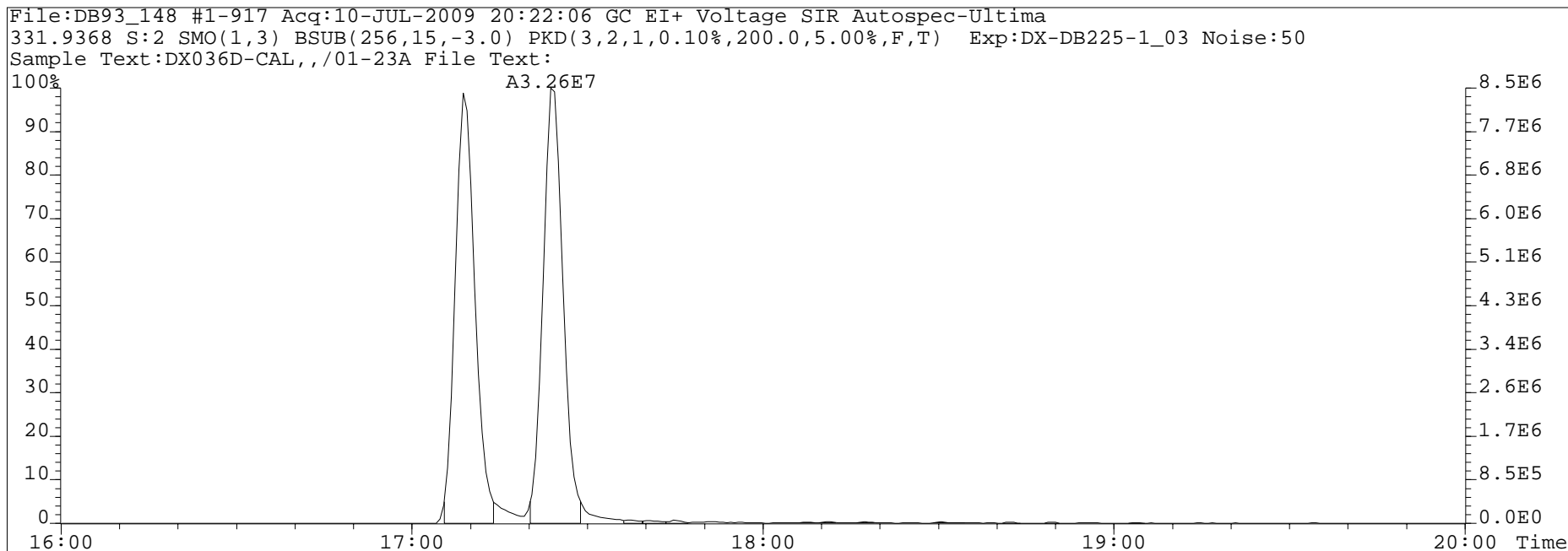


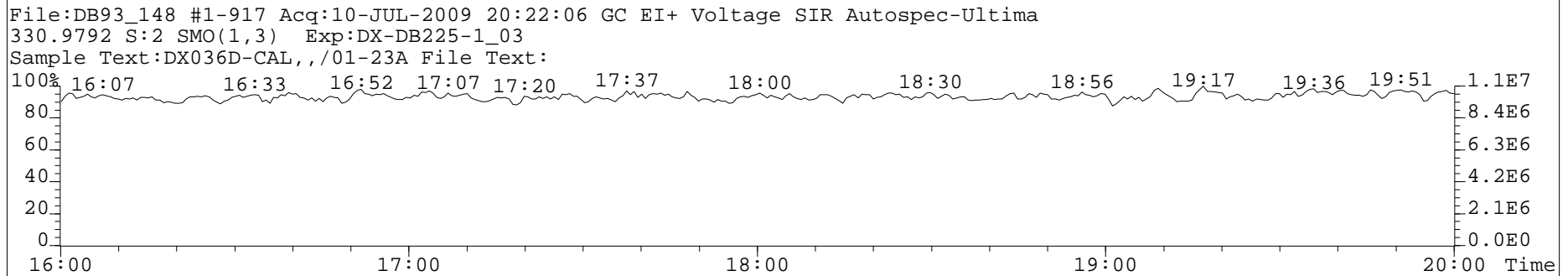
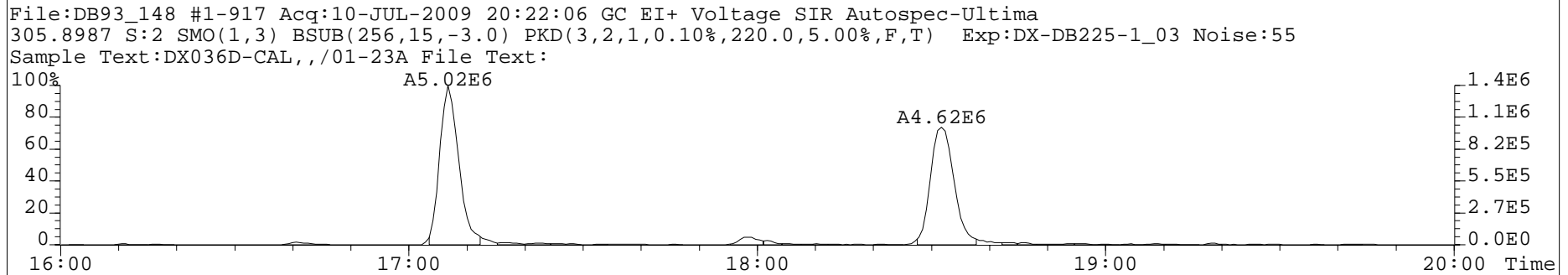
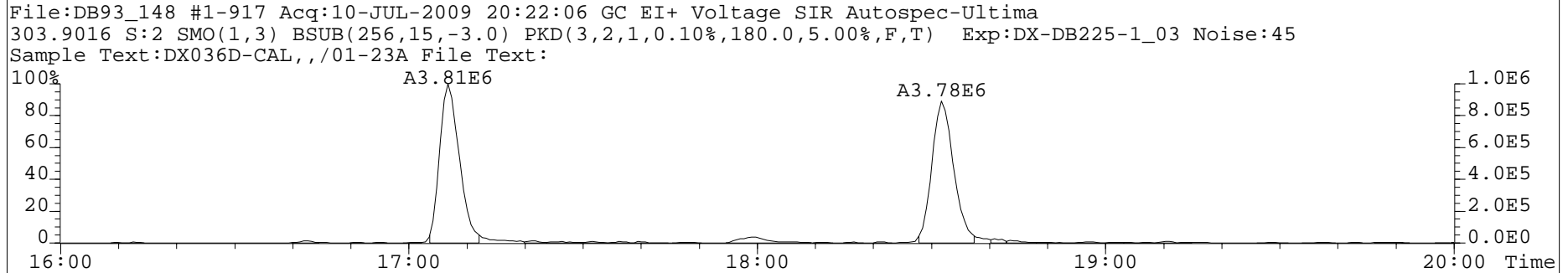
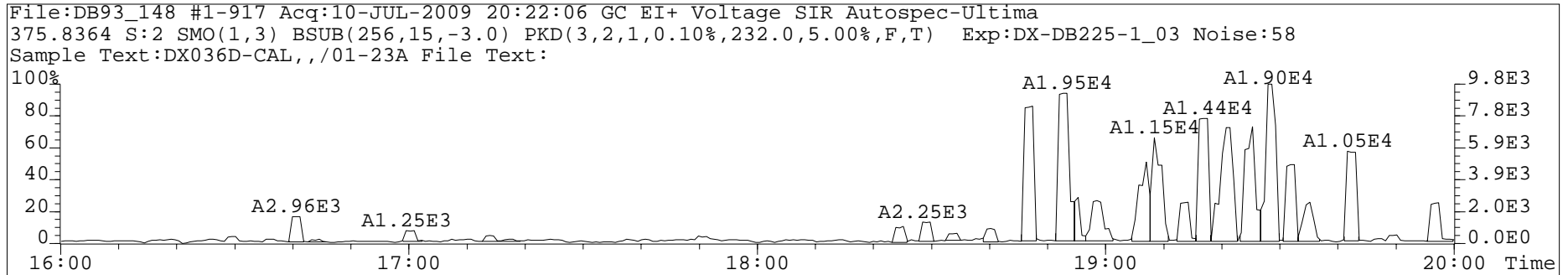
Run #6 Filename DB93_148 S: 2 I: 1 Acquired: 10-JUL-09 20:22:06 Processed: 15-JUL-09 13:58:39
 Run: db93_148-a Analyte: 1613B-db-c4 Cal: db93_146d» Results: db93_148-a Version: V3.6 6-JAN-2000 17:51:42
 Sample text: DX036D-CAL,,/01-23A Comments: 1,,2.0uL Cal
 sample size: 1.000000 conc units: ng/mL total toxicity: 1.05 F1: 20.0000 F2: 1.0000

Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	8.40e+06	0.82	y 18:32	10.467	1	0.0054	-	n
2 IS/RT	13C-2,3,7,8-TCDF	1	1.02e+08	0.78	y 18:31	94.643	-	0.0028	94.6	n
3 RS	13C-1,2,3,4-TCDD	1	7.41e+07	0.78	y 17:24	112.704	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

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Experiment : DX-DB225-1_03	Temps -source: 250	Tune : TD	Date -list : 13-Jul-2009
GC Program : DX-DB225-1_02	-s resv: 160	List : RT	-liner : 13-Jul-2009
Column type : DB-225	-re_ent: 220	Check :	-septum: 13-Jul-2009
Serial # : US5436814H+5M	-cap_1 : 220	LIMS :	-guard : 30cm 13-JUL-09
kPa : 180	-cap_2 : 220	Logfile:	-column: COMB 09-JUL-09
Vol injected: 2.0uL			-t line: 31cm 24-Jun-09
PMT Voltage : 399			

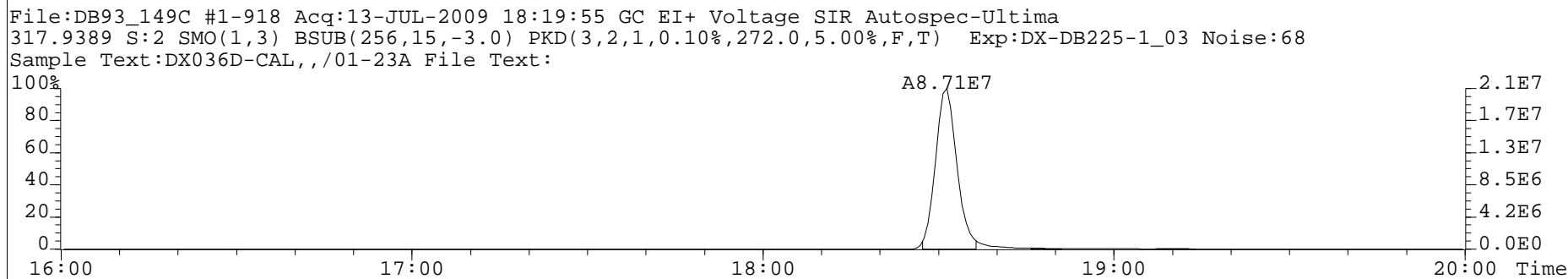
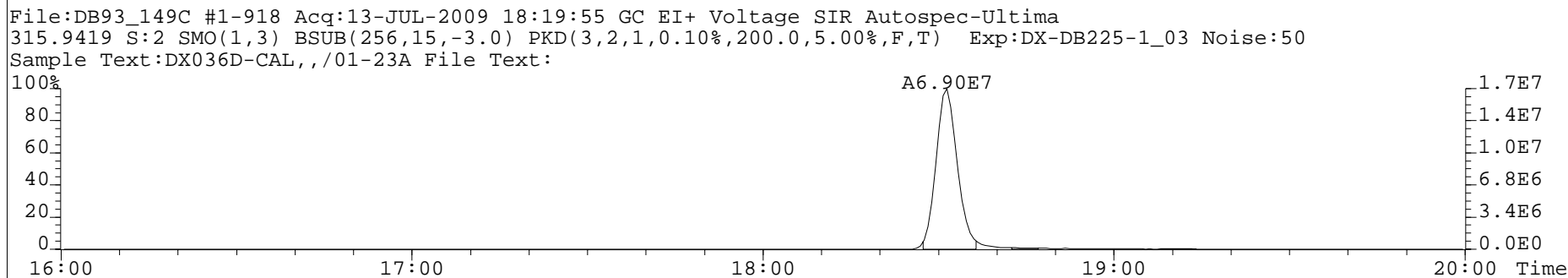
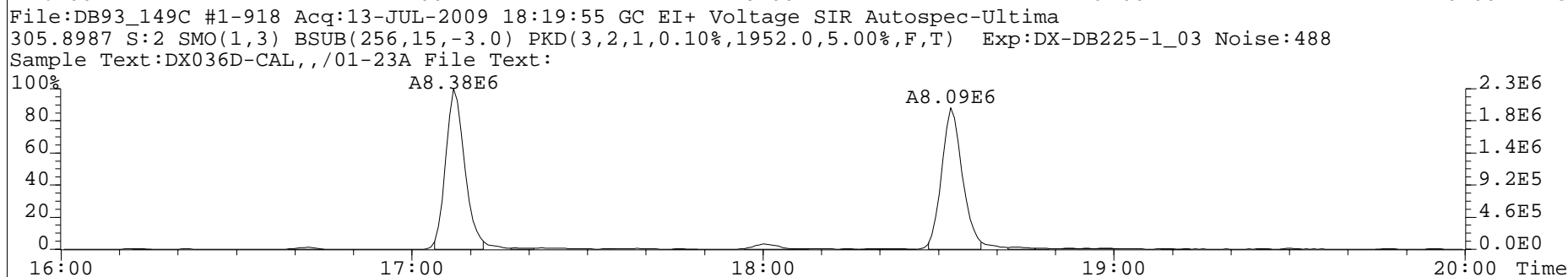
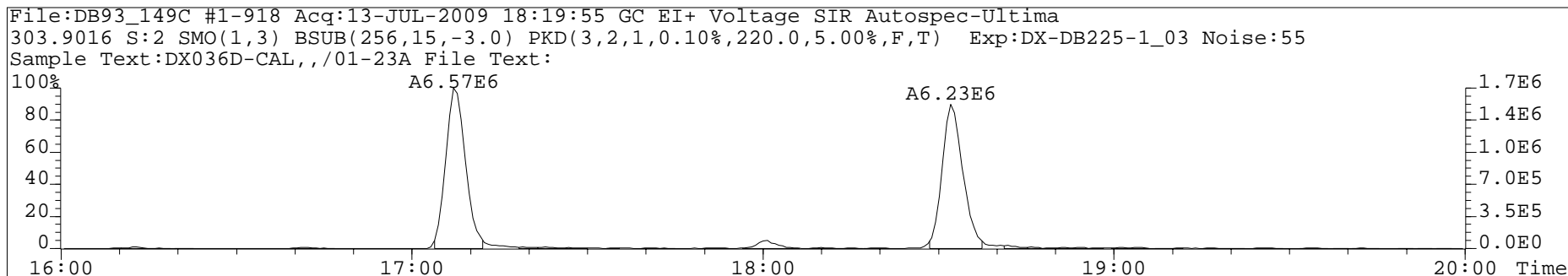
#	Data file	S	V	Sample Text	Comments	Acquisition Date/Time
1	DB93_149C	1	1	DX001A-RSN,,/02-13	1,,2.0uL	13-JUL-09 17:44:20
2	DB93_149C	2	2	DX036D-CAL,,/01-23A	1,,2.0uL Cal	13-JUL-09 18:19:55
3	DB93_149C	3	3	Toluene,,	1,,2.0uL	13-JUL-09 18:55:35
4	DB93_149C	4	4	Toluene,,	1,,2.0uL	13-JUL-09 19:31:11
5	DB93_149C	5	5	L12912-9,,	1,WG29271,2.0/20uL	13-JUL-09 20:06:47
6	DB93_149C	6	6	WG29271-103,,Dup	1,WG29271,2.0/20uL	13-JUL-09 20:42:22
7	DB93_149C	7	7	WG29271-104,,CRM	1,WG29271,2.0/20uL	13-JUL-09 21:18:02
8	DB93_149C	8	8	DX036D-CAL,,/01-23A	1,,2.0uL Cal	13-JUL-09 21:53:41

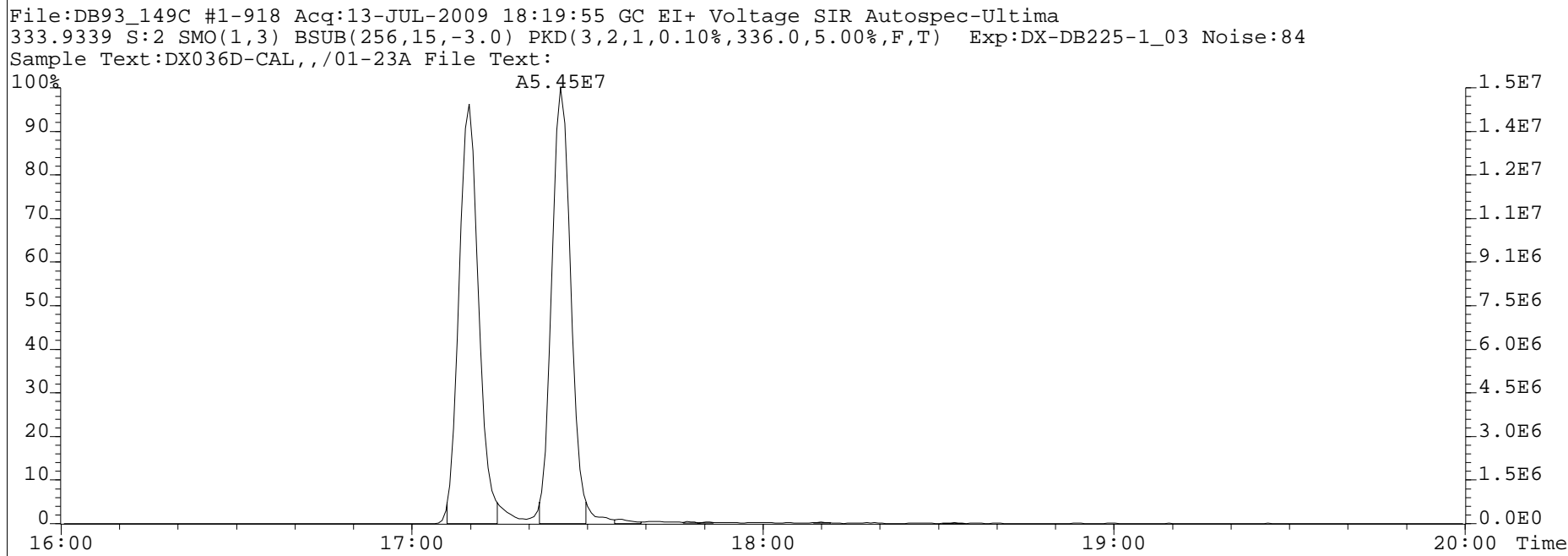
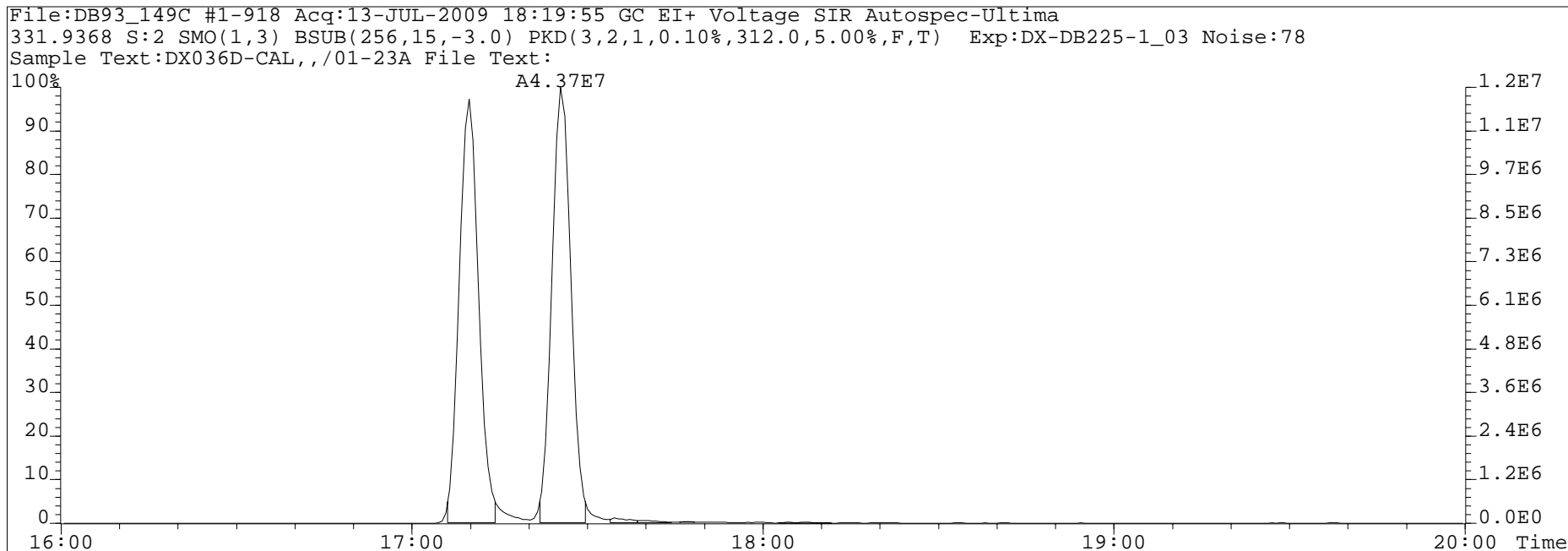


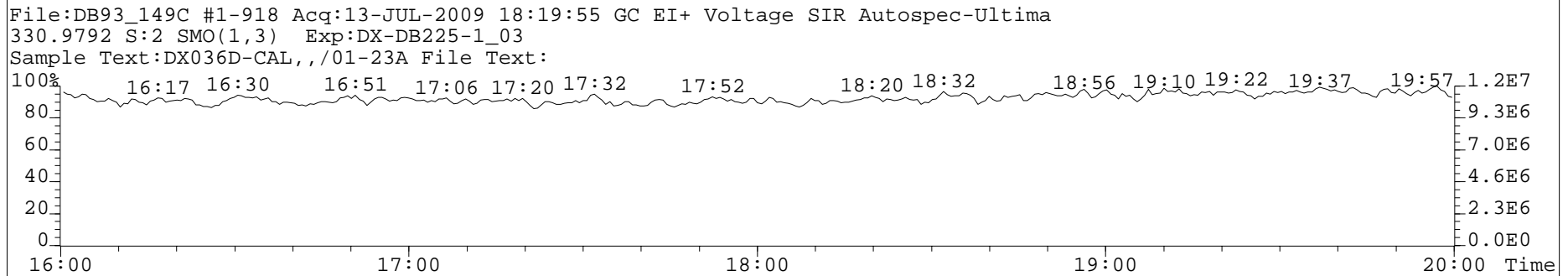
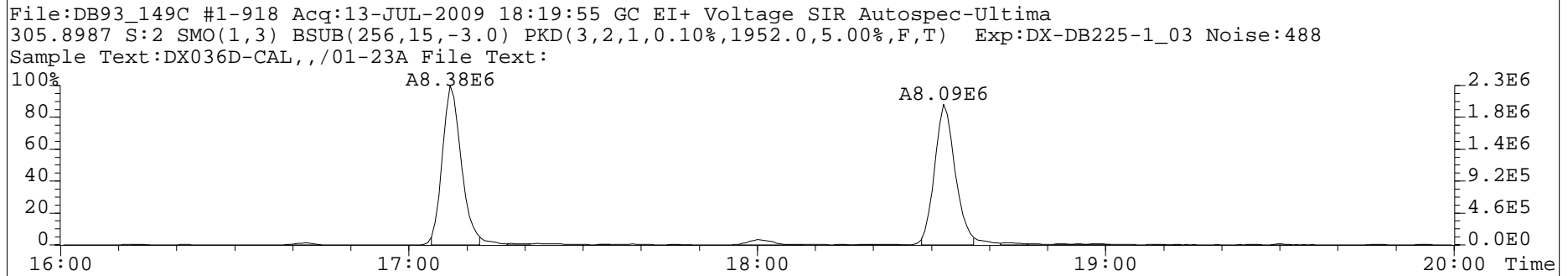
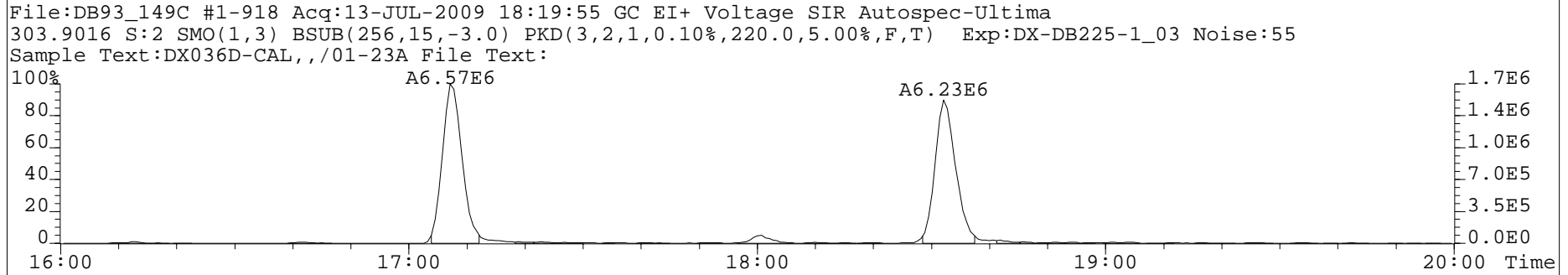
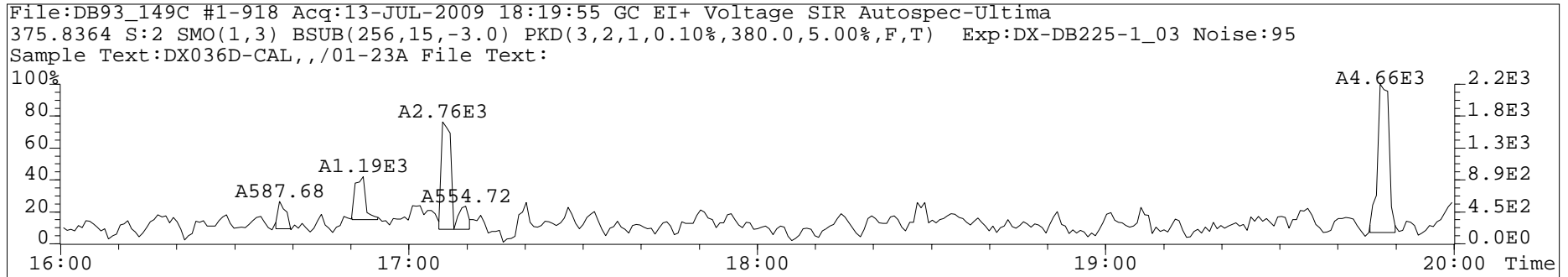
Run #7 Filename DB93_149C S: 2 I: 1 Acquired: 13-JUL-09 18:19:55 Processed: 15-JUL-09 14:03:42
 Run: db93_149c> Analyte: 1613B-db-c4 Cal: db93_146d> Results: db93_149c> Version: V3.6 6-JAN-2000 17:51:42
 Sample text: DX036D-CAL,,/01-23A Comments: 1,,2.0uL Cal
 sample size: 1.000000 conc units: ng/mL total toxicity: 1.17 F1: 20.0000 F2: 1.0000

Typ	Name	#Hom	Resp	RA	RT	Conc	Tox #1	DL	Rec	M?
1 Unk	2,3,7,8-TCDF	1	1.43e+07	0.77	y 18:33	11.699	1	0.0182	-	n
2 IS/RT	13C-2,3,7,8-TCDF	1	1.56e+08	0.79	y 18:31	108.977	-	0.0030	109.0	n
3 RS	13C-1,2,3,4-TCDD	1	9.82e+07	0.80	y 17:25	149.372	-	-	-	n
4 Tot	Hexa DPE	0	*		NotFnd	*	-	-	-	n
5 Tot	Tetra Lock	-	-		-	-	-	-	-	n

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 15-July-09
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Memo

To: Kathleen Goodman Project: 10654
From: Crystal Neirby cc: Project File
Tel:
Fax:
Date: August 3, 2009

**Subject: Former Custom Plywood Plant, Sediment and Pore Water Sampling
Summary Data Quality Review – SDGs K0808742 and K0808749**

This memorandum presents a summary data quality review for analyses of thirty-four primary sediment samples and twenty-nine pore water samples collected between September 3 and 8, 2008. The samples were submitted to Columbia Analytical Services (CAS), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Kelso, Washington. The porewater samples were analyzed for the following analytes:

- Porewater Ammonia by EPA Method 350.1
- Porewater Sulfide by Standard Method SM 4500-S2-D

The sediment samples were analyzed for the following analytes:

- Total Volatile Solids by EPA 160.4M
- Total Organic Carbon by PSEP TOC
- Total Solids by EPA 160.3
- Ammonia by Plumb 1981
- Grainsize by PSEP Protocol

The samples associated with this sample delivery group (SDG) and a summary of the data quality review are presented in Table 1, attached.

The samples were received at CAS at temperatures ranging from 15 °C to 16.7 °C, outside of the acceptable temperature range of $4 \pm 2^{\circ}\text{C}$. Samples were refrigerated immediately upon receipt and are not qualified due to the elevated temperatures. The following was noted by the laboratory upon receipt:

The lids on 1 of 4 sample jars received for samples 10654008, 10654014, 10654019, and 10654021 were broken. The laboratory was able to proceed with analysis. Additionally, the laboratory received an extra jar for sample 10654034 that was not indicated on the COC.

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Final Quality Assurance Project Plan (QAPP), Attachment A2 of Appendix A

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August 3, 2009
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of the Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, (AMEC, 2008). The most current control limits provided by the laboratory were used to evaluate the quality control data.

Hold times, method blanks, laboratory duplicates and triplicates, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike results (MS) results, continuing calibration verifications (CCVs), continuing calibration blanks (CCBs), and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in EPA documents (EPA, 1999 and 2004).

Samples were analyzed for TPH the methods identified in the introduction to this report and were evaluated for the following criteria.

1. Holding Times – Acceptable except as noted:

Sulfide by SM 4500-S2-D: Samples 10654001, 10654002, 10654003, 10654004, 10654005, 10654006, and 10654007 were analyzed one day past the seven day holding time. The sulfide results for the affected samples are qualified as estimated and flagged with a “J”.

Total Volatile Solids (TVS) by EPA 160.4M: The holding time for TVS is 14 days from collection to analysis if received refrigerated. All of the samples were analyzed for TVS between 3 and 6 days past the holding time and are qualified as estimated and flagged with a “J”.

2. Blanks – Acceptable

3. LCS – Acceptable except as noted:

The laboratory did not report blank spike results if acceptable MS/MSD results were reported. Therefore, BS/BSD results were not reported for total metals analyses. The BS/BSD results reported for the remaining analyses were acceptable.

4. MS – Acceptable

5. Laboratory Duplicates and Triplicates – Acceptable

6. CCV/CCB – Acceptable

7. Reporting Limits – Acceptable

OVERALL ASSESSMENT OF DATA

The CAS SDGs K0808742 and K0808749 are 100% complete. The data usability is based on EPA's guidance documents and the QAPP. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

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August 3, 2009
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REFERENCES

EPA (U.S. Environmental Protection Agency), 1995, Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), Third Edition, September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995; Final Update III, December 1996; Final Update IIIA, April 1998.

EPA, 2004, U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review: EPA 540-R-04-004, October.

AMEC Geomatrix, 2008. Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, September.

Puget Sound Protocol: Recommended Quality Assurance Quality Control Guidelines for the Collection of Environmental Data in Puget Sound, April 1997.

Recommended Protocols for Measuring Conventional Sediment Variables in Puget Sound. Puget Sound Water Quality Authority, March 1986.

Sample ID	Laboratory Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
10654001	K0808749-001	sulfide TVS	2.51 J 18.9 J	mg/L %	analyzed passed the holding time
10654002	K0808749-002	sulfide TVS	0.05 UJ 6.75 J	mg/L %	analyzed passed the holding time
10654003	K0808749-003	sulfide TVS	0.05 UJ 3.73 J	mg/L %	analyzed passed the holding time
10654004	K0808749-004	sulfide TVS	0.26 J 8.78 J	mg/L %	analyzed passed the holding time
10654005	K0808749-005	sulfide TVS	0.05 UJ 22.4 J	mg/L %	analyzed passed the holding time
10654006	K0808749-006	sulfide TVS	0.05 UJ 4.58 J	mg/L %	analyzed passed the holding time
10654007	K0808749-007	sulfide TVS	0.05 UJ 13.9 J	mg/L %	analyzed passed the holding time
10654008	K0808749-008	TVS	11.2 J	%	analyzed passed the holding time
10654009	K0808749-009	TVS	20.0 J	%	analyzed passed the holding time
10654010	K0808749-010	TVS	4.99 J	%	analyzed passed the holding time
10654011	K0808749-011	TVS	6.46 J	%	analyzed passed the holding time
10654012	K0808749-012	TVS	10.2 J	%	analyzed passed the holding time
10654013	K0808749-013	TVS	4.79 J	%	analyzed passed the holding time
10654014	K0808749-014	TVS	16.8 J	%	analyzed passed the holding time
10654015	K0808749-015	TVS	13.5 J	%	analyzed passed the holding time
10654016	K0808749-016	TVS	4.59 J	%	analyzed passed the holding time
10654017	K0808749-017	TVS	4.54 J	%	analyzed passed the holding time
10654018	K0808749-018	TVS	12.2 J	%	analyzed passed the holding time
10654019	K0808749-019	TVS	12.8 J	%	analyzed passed the holding time
10654020	K0808749-020	TVS	4.60 J	%	analyzed passed the holding time
10654021	K0808749-021	TVS	11.2 J	%	analyzed passed the holding time
10654022	K0808749-022	TVS	6.05 J	%	analyzed passed the holding time
10654023	K0808749-023	TVS	4.82 J	%	analyzed passed the holding time

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 August 3, 2009
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Sample ID	Laboratory Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
10654024	K0808749-024	TVS	6.37 J	%	analyzed passed the holding time
10654025	K0808749-025	TVS	6.18 J	%	analyzed passed the holding time
10654026	K0808749-026	TVS	4.92 J	%	analyzed passed the holding time
10654027	K0808749-027	TVS	2.14 J	%	analyzed passed the holding time
10654028	K0808749-028	TVS	2.95 J	%	analyzed passed the holding time
10654029	K0808749-029	TVS	3.19 J	%	analyzed passed the holding time
10654030	K0808749-030	TVS	14.8 J	%	analyzed passed the holding time
10654031	K0808749-031	TVS	20.5 J	%	analyzed passed the holding time
10654032	K0808749-032	TVS	23.5 J	%	analyzed passed the holding time
10654033	K0808749-033	TVS	4.28 J	%	analyzed passed the holding time
10654034	K0808749-034	TVS	5.09 J	%	analyzed passed the holding time

September 24, 2008

Analytical Report for Service Request No: K0808742

Robert Gilmour
AMEC Geomatrix, Inc.
3500 188th Stree SW
Suite 600
Lynnwood, WA 98037

RE: Former Custom Plywood Site/10654.001

Dear Robert:

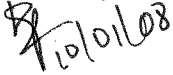
Enclosed are the results of the rush samples submitted to our laboratory on September 11, 2008. For your reference, these analyses have been assigned our service request number K0808742.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.


Pradeep Divvela
Project Chemist

PD/ss

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

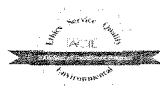
- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: AMEC Geomatrix, Inc. Service Request No.: K0808742
Project: Former Custom Plywood Site / 10654.001 Date Received: 09/11/2008
Sample Matrix: Soil

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), and Laboratory Control Sample (LCS).

Sample Receipt

Thirty four soil samples were received for analysis at Columbia Analytical Services on 09/11/2008. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Ammonia by 350.1M Plumb
Particle size by PSEP
TOC by PSEP

No anomalies associated with the analysis of these samples were observed.

Total Volatile Solids by 160.4 M

The following procedure was used for TVS determination,

1. Approximately 300 g of sample was weighed.
2. Samples were dried at 105 degrees C.
3. Dry weight was noted for total solids determination.
4. Samples were pre ash on hot plate in fume hood.
5. Samples were ashed at 550 degrees C in muffle furnace.
6. Samples were weighed to determine volatile solid content.

No anomalies associated with the analysis of these samples were observed.

Approved by  Date 10/01/08

Chain of Custody Documentation

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis										
SMS List of COCs	Mercury (digest and ho	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive		

Checked by: RH

AMEC Geomatrix
 10654001
 COC Form
 Initials: RG
 Date: 9/3/08 Time: 1128

AMEC Geomatrix
 10654002
 COC Form
 Initials: RG
 Date: 9/3/08 Time: 1239

AMEC Geomatrix
 10654003
 COC Form
 Initials: RG
 Date: 9/3/08 Time: 1321

AMEC Geomatrix
 10654004
 COC Form
 Initials: GSM
 Date: 9-3-08 Time: 1414

AMEC Geomatrix
 10654005
 COC Form
 Initials: GSM
 Date: 9-3-08 Time: 1617

AMEC Geomatrix
 10654006
 COC Form
 Initials: GSM
 Date: 9-3-08 Time: 1709

AMEC Geomatrix
 10654007
 COC Form
 Initials: GSM
 Date: 9-3-08 Time: 1759

Date:											Number of containers <u>4</u>
Time:											
Date:											Number of containers <u>4</u>
Time:											
Date:											Number of containers <u>4</u>
Time:											
Date:											Number of containers <u>4</u>
Time:											
Date:											Number of containers <u>4</u>
Time:											
Date:											Number of containers <u>4</u>
Time:											

Laboratory/Analysis Comments

Project Number 10654-001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

Relinquished By	Transported By	Received By
Name: <u>R. Gilmour</u>	FedEx	Name: <u>Kyle Smith</u>
Date: <u>9/9/08</u>		Date: <u>9/11/08</u>
Time: <u>1340</u>		Time: <u>0900</u>
Name:		Name:
Date:		Date:
Time:		Time:

Rush 5 day TAT

CHAIN OF CUSTODY

K0808742
CAS

Place COC Form Number Label Here
or write in seq. number below.

AMEC Geomatrix

10654008

COC Form

Initials: GM

Date: 9-4-08 Time: 8:23

AMEC Geomatrix

10654009

COC Form

Initials: GM

Date: 9-4-08 Time: 9:37

AMEC Geomatrix

10654010

COC Form

Initials: GM

Date: 9-4-08 Time: 10:19

AMEC Geomatrix

10654011

COC Form

Initials: GM

Date: 9-4-08 Time: 10:59

AMEC Geomatrix

10654012

COC Form

Initials: GM

Date: 9-4-08 Time: 11:29

AMEC Geomatrix

10654013

COC Form

Initials: GM

Date: 9-4-08 Time: 13:04

AMEC Geomatrix

10654014

COC Form

Initials: GM

Date: 9-4-08 Time: 13:41

Requested Analysis								
SMS List of COCs	Mercury (digest and ho)	TVS/TOC/TN/NH4	Grainsize	Forewater Ammonia	Forewater Sulfide	Bioassay	Bioassay (Microtox)	Archive

Checked by: RAC

Date:										Number of containers 4
Time:										
Date:										Number of containers 4
Time:										
Date:										Number of containers 4
Time:										
Date:										Number of containers 4
Time:										
Date:										Number of containers 4
Time:										
Date:										Number of containers 4
Time:										
Date:										Number of containers 4
Time:										
Date:										Number of containers 4
Time:										

Laboratory/Analysis Comments

Project Number 10654.001
Former Custom Plywood Site
Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
Cliff Whitmus 425-921-4023

Relinquished By	Transported By	Received By
Name: <u>R. Gilmour</u>	FedEx	Name: <u>Karla Smith</u>
Date: <u>9/9/08</u>		Date: <u>9/11/08</u>
Time: <u>13:40</u>		Time: <u>09:00</u>
Name:		Name:
Date:		Date:
Time:		Time:

Rosh 5 day TAT

KRIS 11/2
 CAS

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis										
SMS List of COCs	Mercury (digest and ho	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive		

Checked by: EMH

AMEC Geomatrix
 10654015
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1419

Date:											Number of containers
Time:			1	1	1						

AMEC Geomatrix
 10654016
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1458

Date:											Number of containers
Time:			1	1	1						

AMEC Geomatrix
 10654017
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1530

Date:											Number of containers
Time:			1	1	1						

AMEC Geomatrix
 10654018
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1635

Date:											Number of containers
Time:			1	1	1						

AMEC Geomatrix
 10654019
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1707

Date:											Number of containers
Time:			1	1	1						

AMEC Geomatrix
 10654020
 COC Form
 Initials: GSM
 Date: 9-5-08 Time: 831

Date:											Number of containers
Time:			1	1	1						

AMEC Geomatrix
 10654021
 COC Form
 Initials: GSM
 Date: 9-5-08 Time: 933

Date:											Number of containers
Time:			1	1	1						

Laboratory/Analysis Comments
 Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

Relinquished By	Transported By	Received By
Name: <u>[Signature]</u> Date: <u>9/4/08</u> Time: <u>1340</u>	<u>FedEx</u>	Name: <u>[Signature]</u> Date: <u>9/11/08</u> Time: <u>0900</u>
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site

Rush 5 day TAT

CHAIN OF CUSTODY

CAS
 KLSL 8742

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis										
SMS List of COCs	Mercury (digest and ho	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive		

Checked by: R 45

AMEC Geomatrix
 10654022
 COC Form
 Initials: GSN
 Date: 9-5-08 Time: 1015

Date:												Number of containers
Time:			/	/	/	/						4

AMEC Geomatrix
 10654023
 COC Form
 Initials: GSN
 Date: 9-5-08 Time: 1051

Date:												Number of containers
Time:			/	/	/	/						4

AMEC Geomatrix
 10654024
 COC Form
 Initials: GSN
 Date: 9-5-08 Time: 1232

Date:												Number of containers
Time:			/	/	/	/						4

AMEC Geomatrix
 10654025
 COC Form
 Initials: GSN
 Date: 9-5-08 Time: 1308

Date:												Number of containers
Time:			/	/	/	/						4

AMEC Geomatrix
 10654026
 COC Form
 Initials: GSN
 Date: 9-5-08 Time: 1342

Date:												Number of containers
Time:			/	/	/	/						4

AMEC Geomatrix
 10654027
 COC Form
 Initials: GSN
 Date: 9-5-08 Time: 1433

Date:												Number of containers
Time:			/	/	/	/						4

AMEC Geomatrix
 10654028
 COC Form
 Initials: GSN
 Date: 9-5-08 Time: 1520

Date:												Number of containers
Time:			/	/	/	/						4

Laboratory/Analysis Comments
 Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

Relinquished By	Transported By	Received By
Name: <u>R Gilmour</u>	FedEx	Name: <u>Kevin Jones</u>
Date: <u>9/4/08</u>		Date: <u>9/11/08</u>
Time: <u>1340</u>		Time: <u>0900</u>
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site

Rush 5 day TAT

CHAIN OF CUSTODY

CAS
 M-SP5742

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis								
SMS List of COCs	Mercury (digest and ho)	TYS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive

Checked by: RK

AMEC Geomatrix
 10654029
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 0827

Date:											Number of containers
Time:			21								3

AMEC Geomatrix
 10654030
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 904

Date:											Number of containers
Time:			21								4

AMEC Geomatrix
 10654031
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 903

Date:											Number of containers
Time:			21								4

AMEC Geomatrix
 10654032
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 946

Date:											Number of containers
Time:			21								4

AMEC Geomatrix
 10654033
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 1024

Date:											Number of containers
Time:			21								4

AMEC Geomatrix
 10654034
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 1122

Date:											Number of containers
Time:			1111								4

Place Sample ID Label Here
 or Write ID Number Here

Date:											Number of containers
Time:											

Laboratory/Analysis Comments
 Project Number 10654 001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023 *24 sample volume marginal*
Conduct TVS with remaining material after other analysis done

Relinquished By	Transported By	Received By
Name: <u>R Gilmour</u> Date: <u>9/2/08</u> Time: <u>1340</u>	<u>Fedex</u>	Name: <u>Karla Smith</u> Date: <u>9/11/08</u> Time: <u>0900</u>
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site

Rush 5 day TAT

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC PP

Client / Project: geomatrix Service Request K08 08742
 Received: 9-11-8 Opened: 9-11-8 By: LM

1. Samples were received via? US Mail ~~FedEx~~ UPS ~~DHL~~ ~~GH~~ ~~GS~~ ~~PDX~~ ~~Courier~~ ~~Hand Delivered~~
2. Samples were received in: (circle) Cooler ~~Box~~ ~~Envelope~~ ~~Other~~ NA
3. Were custody seals on coolers? NA ~~Y~~ ~~N~~ If yes, how many and where? _____
 If present, were custody seals intact? Y ~~N~~ If present, were they signed and dated? Y ~~N~~
4. Is shipper's air-bill filed? If not, record air-bill number: _____ NA ~~0~~ ~~N~~
5. Temperature of cooler(s) upon receipt (°C): 16.2 16.7 15.0 15.2 15.1
 Temperature Blank (°C): 17.1 17.1 15.5 15.4 14.7
6. If applicable, list Chain of Custody Numbers: _____
7. Packing material used. Inserts Baggies Bubble Wrap Gel Packs ~~Wet Ice~~ ~~Sleeves~~ ~~Other~~
8. Were custody papers properly filled out (ink, signed, etc.)? NA ~~Y~~ ~~N~~
9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA ~~Y~~ ~~N~~
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA ~~Y~~ ~~N~~
11. Did all sample labels and tags agree with custody papers? Indicate in the table below NA ~~Y~~ ~~N~~
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA ~~Y~~ ~~N~~
13. Were the pH-preserved bottles tested* received at the appropriate pH? Indicate in the table below NA ~~Y~~ ~~N~~
14. Were VOA vials and 1631 Mercury bottles received without headspace? Indicate in the table below. NA ~~Y~~ ~~N~~
15. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? NA ~~Y~~ ~~N~~
16. Was C12/Res negative? NA ~~Y~~ ~~N~~

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials
<u>all</u>			<u>X</u>							<u>LM</u>
<u>10654008</u>	<u>1</u>	<u>16oz J</u>			<u>X</u>					<u>LM</u>
<u>10654014</u>	<u>1</u>	<u>32oz J</u>			<u>X</u>					<u>LM</u>
<u>10654019</u>	<u>1</u>	<u>16oz J</u>			<u>X</u>					<u>LM</u>
<u>10654021</u>	<u>1</u>				<u>X</u>					<u>LM</u>

*Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).
 Additional Notes, Discrepancies, & Resolutions: Broken lid on 10654008, 10654014, 10654019. Extra bottle rec'd on 10654034.

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: AMEC Geomatrix, Inc.
 Project: Former Custom Plywoo/10654.001
 Sample Matrix: Soil

Service Request: K0808742

Total Solids

Prep Method: NONE
 Analysis Method: 160.3M
 Test Notes:

Units: PERCENT
 Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
10654001	K0808742-001	09/03/2008	09/11/2008	09/15/2008	40.8	
10654002	K0808742-002	09/03/2008	09/11/2008	09/15/2008	53.4	
10654003	K0808742-003	09/03/2008	09/11/2008	09/15/2008	61.8	
10654004	K0808742-004	09/03/2008	09/11/2008	09/15/2008	38.7	
10654005	K0808742-005	09/03/2008	09/11/2008	09/15/2008	49.0	
10654006	K0808742-006	09/03/2008	09/11/2008	09/15/2008	58.9	
10654007	K0808742-007	09/03/2008	09/11/2008	09/15/2008	40.6	
10654008	K0808742-008	09/04/2008	09/11/2008	09/15/2008	41.2	
10654009	K0808742-009	09/04/2008	09/11/2008	09/15/2008	41.7	
10654010	K0808742-010	09/04/2008	09/11/2008	09/15/2008	55.7	
10654011	K0808742-011	09/04/2008	09/11/2008	09/15/2008	49.9	
10654012	K0808742-012	09/04/2008	09/11/2008	09/15/2008	47.5	
10654013	K0808742-013	09/04/2008	09/11/2008	09/15/2008	52.3	
10654014	K0808742-014	09/04/2008	09/11/2008	09/15/2008	41.1	
10654015	K0808742-015	09/04/2008	09/11/2008	09/15/2008	46.4	
10654016	K0808742-016	09/04/2008	09/11/2008	09/15/2008	54.2	
10654017	K0808742-017	09/04/2008	09/11/2008	09/15/2008	54.4	
10654018	K0808742-018	09/04/2008	09/11/2008	09/15/2008	48.4	
10654019	K0808742-019	09/04/2008	09/11/2008	09/15/2008	52.1	
10654020	K0808742-020	09/05/2008	09/11/2008	09/15/2008	57.4	
10654021	K0808742-021	09/05/2008	09/11/2008	09/15/2008	47.9	
10654022	K0808742-022	09/05/2008	09/11/2008	09/15/2008	50.9	
10654023	K0808742-023	09/05/2008	09/11/2008	09/15/2008	56.5	
10654024	K0808742-024	09/05/2008	09/11/2008	09/15/2008	52.6	
10654025	K0808742-025	09/05/2008	09/11/2008	09/15/2008	49.3	
10654026	K0808742-026	09/05/2008	09/11/2008	09/15/2008	51.8	
10654027	K0808742-027	09/05/2008	09/11/2008	09/15/2008	76.3	
10654028	K0808742-028	09/05/2008	09/11/2008	09/15/2008	66.1	
10654029	K0808742-029	09/08/2008	09/11/2008	09/15/2008	89.2	
10654030	K0808742-030	09/08/2008	09/11/2008	09/15/2008	63.4	
10654031	K0808742-031	09/08/2008	09/11/2008	09/15/2008	64.7	
10654032	K0808742-032	09/08/2008	09/11/2008	09/15/2008	55.6	
10654033	K0808742-033	09/08/2008	09/11/2008	09/15/2008	84.2	
10654034	K0808742-034	09/08/2008	09/11/2008	09/15/2008	66.2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Extracted: NA
Date Analyzed: 9/15/2008

Triplicate Summary
Inorganic Parameters

Sample Name: 10654001
Lab Code: K0808742-001TRP
Test Notes:

Units: PERCENT
Basis: WET

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Triplicate Sample Result	Average	Relative Standard Deviation	Result Notes
Total Solids	NONE	PSEP	40.8	40.9	39.7	40.5	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Extracted: NA
Date Analyzed: 9/15/2008

Triplicate Summary
Inorganic Parameters

Sample Name: 10654011
Lab Code: K0808742-011TRP
Test Notes:

Units: PERCENT
Basis: WET

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Triplicate Sample Result	Average	Relative Standard Deviation	Result Notes
Total Solids	NONE	PSEP	49.9	51.0	50.4	50.2	< 1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Extracted: NA
Date Analyzed: 9/15/2008

Triplicate Summary
 Inorganic Parameters

Sample Name: 10654021
Lab Code: K0808742-021TRP
Test Notes:

Units: PERCENT
Basis: WET

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Triplicate Sample Result	Average	Relative Standard Deviation	Result Notes
Total Solids	NONE	PSEP	47.9	48.4	48.0	48.2	< 1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Extracted: NA
Date Analyzed: 9/15/2008

Triplicate Summary
 Inorganic Parameters

Sample Name: 10654031
 Lab Code: K0808742-031 TRP
 Test Notes:

Units: PERCENT
 Basis: WET

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Triplicate Sample Result	Average	Relative Standard Deviation	Result Notes
Total Solids	NONE	PSEP	64.7	61.4	67.6	64.6	5	

Total Volatile Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008

Total Volatile Solids

Prep Method: NONE
Analysis Method: 160.4M
Test Notes:

Units: PERCENT
Basis: DRY

Sample Name	Lab Code	Date Analyzed	Result	Result Notes
10654001	K0808742-001	9/23/2008	18.9	
10654002	K0808742-002	9/23/2008	6.75	
10654003	K0808742-003	9/23/2008	3.73	
10654004	K0808742-004	9/23/2008	8.78	
10654005	K0808742-005	9/23/2008	22.4	
10654006	K0808742-006	9/23/2008	4.58	
10654007	K0808742-007	9/23/2008	13.9	
10654008	K0808742-008	9/23/2008	11.2	
10654009	K0808742-009	9/23/2008	20.0	
10654010	K0808742-010	9/23/2008	4.99	
10654011	K0808742-011	9/23/2008	6.46	
10654012	K0808742-012	9/23/2008	10.2	
Method Blank	K0808742-MB	9/23/2008	<0.01	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008

Total Volatile Solids

Prep Method: NONE
Analysis Method: 160.4M
Test Notes:

Units: PERCENT
Basis: DRY

Sample Name	Lab Code	Date Analyzed	Result	Result Notes
10654013	K0808742-013	9/24/2008	4.79	
10654014	K0808742-014	9/24/2008	16.8	
10654015	K0808742-015	9/24/2008	13.5	
10654016	K0808742-016	9/24/2008	4.59	
10654017	K0808742-017	9/24/2008	4.54	
10654018	K0808742-018	9/24/2008	12.2	
10654019	K0808742-019	9/24/2008	12.8	
10654020	K0808742-020	9/24/2008	4.60	
10654021	K0808742-021	9/24/2008	11.2	
10654022	K0808742-022	9/24/2008	6.05	
10654023	K0808742-023	9/24/2008	4.82	
Method Blank	K0808742-MB	9/24/2008	<0.01	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008

Total Volatile Solids

Prep Method: NONE
 Analysis Method: 160.4M
 Test Notes:

Units: PERCENT
 Basis: DRY

Sample Name	Lab Code	Date Analyzed	Result	Result Notes
10654024	K0808742-024	9/25/2008	6.37	
10654025	K0808742-025	9/25/2008	6.18	
10654026	K0808742-026	9/25/2008	4.92	
10654027	K0808742-027	9/25/2008	2.14	
10654028	K0808742-028	9/25/2008	2.95	
10654029	K0808742-029	9/25/2008	3.19	
10654030	K0808742-030	9/25/2008	14.8	
10654031	K0808742-031	9/25/2008	20.5	
10654032	K0808742-032	9/25/2008	23.5	
10654033	K0808742-033	9/25/2008	4.28	
10654034	K0808742-034	9/25/2008	5.09	
Method Blank	K0808742-MB	9/25/2008	<0.01	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Extracted: NA
Date Analyzed: 9/25/2008

Triplicate Summary
Inorganic Parameters

Sample Name: 10654034
Lab Code: K0808742-034TRP
Test Notes:

Units: PERCENT
Basis: DRY

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Triplicate Sample Result	Average	Relative Standard Deviation	Result Notes
Total Volatile Solids	NONE	160.4M	5.09	5.88	5.57	5.50	7	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Extracted: NA
Date Analyzed: 9/24/2008

Triplicate Summary
 Inorganic Parameters

Sample Name: 10654023
 Lab Code: K0808742-023TRP
 Test Notes:

Units: PERCENT
 Basis: DRY

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Triplicate Sample Result	Average	Relative Standard Deviation	Result Notes
Total Volatile Solids	NONE	160.4M	4.82	5.30	5.94	5.40	15	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Extracted: NA
Date Analyzed: 9/23/2008

Triplicate Summary
Inorganic Parameters

Sample Name: 10654011
Lab Code: K0808742-011TRP
Test Notes:

Units: PERCENT
Basis: DRY

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Triplicate Sample Result	Average	Relative Standard Deviation	Result Notes
Total Volatile Solids	NONE	160.4M	6.46	7.35	8.90	6.90	9	

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 09/03-08/08
Date Received : 09/11/08

Ammonia as Nitrogen

Prep Method : EPA Plumb 5-1981 KCl
Analysis Method : 350.1M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
10654001	K0808742-001	1.3	1	9/12/2008	09/15/08	16.1	
10654002	K0808742-002	1.3	1	9/12/2008	09/15/08	8.4	
10654003	K0808742-003	1.3	1	9/12/2008	09/15/08	17.1	
10654004	K0808742-004	1.3	1	9/12/2008	09/15/08	44.3	
10654005	K0808742-005	1.3	1	9/12/2008	09/15/08	18.0	
10654006	K0808742-006	1.3	1	9/12/2008	09/15/08	31.5	
10654007	K0808742-007	1.3	1	9/12/2008	09/15/08	14.4	
10654008	K0808742-008	1.3	1	9/12/2008	09/15/08	35.6	
10654009	K0808742-009	1.3	1	9/12/2008	09/15/08	27.8	
10654010	K0808742-010	1.3	1	9/12/2008	09/15/08	21.1	
10654011	K0808742-011	1.3	1	9/12/2008	09/15/08	25.3	
10654012	K0808742-012	1.3	1	9/12/2008	09/15/08	23.2	
10654013	K0808742-013	1.3	1	9/12/2008	09/15/08	26.7	
10654014	K0808742-014	1.3	1	9/12/2008	09/15/08	29.7	
10654015	K0808742-015	1.3	1	9/12/2008	09/15/08	22.3	
10654016	K0808742-016	1.3	1	9/12/2008	09/15/08	26.4	
10654017	K0808742-017	1.3	1	9/12/2008	09/15/08	18.9	
10654018	K0808742-018	1.3	1	9/12/2008	09/15/08	16.3	
10654019	K0808742-019	1.3	1	9/12/2008	09/15/08	12.1	
10654020	K0808742-020	1.3	1	9/12/2008	09/15/08	15.7	
10654021	K0808742-021	1.3	1	9/12/2008	09/15/08	6.8	
10654022	K0808742-022	1.3	1	9/12/2008	09/15/08	6.9	
10654023	K0808742-023	1.3	1	9/12/2008	09/15/08	15.8	
10654024	K0808742-024	1.3	1	9/12/2008	09/15/08	4.9	
10654025	K0808742-025	1.3	1	9/12/2008	09/15/08	12.6	
10654026	K0808742-026	1.3	1	9/12/2008	09/15/08	9.5	
10654027	K0808742-027	1.3	1	9/12/2008	09/15/08	13.4	
10654028	K0808742-028	1.3	1	9/12/2008	09/15/08	28.3	
10654029	K0808742-029	0.6	1	9/12/2008	09/15/08	2.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 09/03-08/08
Date Received : 09/11/08

Ammonia as Nitrogen

Prep Method : EPA Plumb 5-1981 KCl
Analysis Method : 350.1M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
10654030	K0808742-030	1.3	1	9/12/2008	09/15/08	ND	
10654031	K0808742-031	1.3	1	9/12/2008	09/15/08	ND	
10654032	K0808742-032	1.3	1	9/12/2008	09/15/08	ND	
10654033	K0808742-033	1.3	1	9/12/2008	09/15/08	ND	
10654034	K0808742-034	1.3	1	9/12/2008	09/15/08	10.1	
Method Blank	K0808742-MB	1.3	1	9/11/2008	09/15/08	ND	
Method Blank	K0808742-MB	1.3	1	9/12/2008	09/15/08	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 9/3/2008
Date Received : 9/11/2008
Date Prepared : 09/12/08
Date Analyzed : 09/15/08

Duplicate Summary
Inorganic Parameters

Sample Name : 10654001
Lab Code : K0808742-001DUP
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	EPA Plumb 5-1981 KCl	350.1M	1.3	16.1	18.7	17.4	15	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 9/4/2008
Date Received : 9/11/2008
Date Prepared : 09/11/08
Date Analyzed : 09/15/08

Duplicate Summary
 Inorganic Parameters

Sample Name : 10654019
Lab Code : K0808742-019DUP
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	EPA Plumb 5-1981 KCl	350.1M	1.3	12.1	13.6	12.9	12	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 9/3/2008
Date Received : 9/11/2008
Date Prepared : 09/12/08
Date Analyzed : 09/15/08

Matrix Spike Summary
 Inorganic Parameters

Sample Name : 10654001
Lab Code : K0808742-001MS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery Acceptance Limits	
Ammonia as Nitrogen	EPA Plumb 5-1981 KCl	350.1M	65	1230	ND	985	79	66-127	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 9/4/2008
Date Received : 9/11/2008
Date Prepared : 09/11/08
Date Analyzed : 09/15/08

Matrix Spike Summary
 Inorganic Parameters

Sample Name : 10654019
Lab Code : K0808742-019MS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery Acceptance Limits	
Ammonia as Nitrogen	EPA Plumb 5-1981 KCl	350.1M	65	956	ND	827	85	66-127	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 09/15/08

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K0808742-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	NONE	350.1M	8.38	8.12	97	90-110	
Ammonia as Nitrogen	NONE	350.1M	8.38	8.09	97	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 09/03-08/08
Date Received : 09/11/08

Carbon, Total Organic (TOC)

Prep Method : SOP
Analysis Method : PSEP TOC
Test Notes :

Units : Percent
Basis : Dry

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
10654001	K0808742-001	0.05	1	9/12/2008	09/15/08	6.65	
10654002	K0808742-002	0.05	1	9/12/2008	09/15/08	3.05	
10654003	K0808742-003	0.05	1	9/12/2008	09/15/08	1.24	
10654004	K0808742-004	0.05	1	9/12/2008	09/15/08	3.66	
10654005	K0808742-005	0.05	1	9/12/2008	09/15/08	4.40	
10654006	K0808742-006	0.05	1	9/12/2008	09/15/08	1.55	
10654007	K0808742-007	0.05	1	9/12/2008	09/15/08	4.19	
10654008	K0808742-008	0.05	1	9/12/2008	09/15/08	3.71	
10654009	K0808742-009	0.05	1	9/12/2008	09/15/08	8.52	
10654010	K0808742-010	0.05	1	9/12/2008	09/15/08	1.99	
10654011	K0808742-011	0.05	1	9/12/2008	09/15/08	2.55	
10654012	K0808742-012	0.05	1	9/12/2008	09/15/08	3.56	
10654013	K0808742-013	0.05	1	9/12/2008	09/15/08	1.59	
10654014	K0808742-014	0.05	1	9/12/2008	09/15/08	5.49	
10654015	K0808742-015	0.05	1	9/12/2008	09/15/08	3.50	
10654016	K0808742-016	0.05	1	9/12/2008	09/15/08	1.97	
10654017	K0808742-017	0.05	1	9/12/2008	09/15/08	1.49	
10654018	K0808742-018	0.05	1	9/12/2008	09/15/08	3.37	
10654019	K0808742-019	0.05	1	9/12/2008	09/15/08	5.08	
10654020	K0808742-020	0.05	1	9/12/2008	09/15/08	1.54	
10654021	K0808742-021	0.05	1	9/12/2008	09/15/08	6.68	
10654022	K0808742-022	0.05	1	9/12/2008	09/15/08	2.63	
10654023	K0808742-023	0.05	1	9/12/2008	09/15/08	1.78	
10654024	K0808742-024	0.05	1	9/12/2008	09/15/08	2.50	
10654025	K0808742-025	0.05	1	9/12/2008	09/15/08	2.18	
10654026	K0808742-026	0.05	1	9/12/2008	09/15/08	1.67	
10654027	K0808742-027	0.05	1	9/12/2008	09/15/08	0.79	
10654028	K0808742-028	0.05	1	9/12/2008	09/15/08	0.96	
10654029	K0808742-029	0.05	1	9/12/2008	09/15/08	0.99	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 09/03-08/08
Date Received : 09/11/08

Carbon, Total Organic (TOC)

Prep Method : SOP
Analysis Method : PSEP TOC
Test Notes :

Units : Percent
Basis : Dry

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
10654030	K0808742-030	0.05	1	9/12/2008	09/15/08	11.6	
10654031	K0808742-031	0.05	1	9/12/2008	09/15/08	15.6	
10654032	K0808742-032	0.05	1	9/12/2008	09/15/08	11.2	
10654033	K0808742-033	0.05	1	9/12/2008	09/15/08	1.24	
10654034	K0808742-034	0.05	1	9/12/2008	09/15/08	1.95	
Method Blank	K0808742-MB	0.05	1	NA	09/15/08	ND	
Method Blank	K0808742-MB	0.05	1	NA	09/15/08	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SEDIMENT

Service Request : K0808742
Date Collected : NA
Date Received : NA
Date Prepared : 09/12/08
Date Analyzed : 09/15/08

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K0808666-001DUP
Test Notes :

Units : Percent
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Carbon, Total Organic (TOC)	NONE	PSEP TOC	0.05	3.52	3.44	3.48	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 9/3/2008
Date Received : 9/11/2008
Date Prepared : 09/12/08
Date Analyzed : 09/15/08

Duplicate Summary
Inorganic Parameters

Sample Name : 10654001
Lab Code : K0808742-001DUP
Test Notes :

Units : Percent
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Carbon, Total Organic (TOC)	NONE	PSEP TOC	0.05	6.65	6.28	6.47	6	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SEDIMENT

Service Request : K0808742
Date Collected : NA
Date Received : NA
Date Prepared : 09/12/08
Date Analyzed : 09/15/08

Matrix Spike Summary
 Inorganic Parameters

Sample Name : Batch QC
Lab Code : K0808666-001MS
Test Notes :

Units : Percent
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery Acceptance Limits	
Carbon, Total Organic (TOC)	NONE	PSEP TOC	0.05	7.98	3.52	11.3	97	75-114	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : 9/3/2008
Date Received : 9/11/2008
Date Prepared : 09/12/08
Date Analyzed : 09/15/08

Matrix Spike Summary
Inorganic Parameters

Sample Name : 10654001
Lab Code : K0808742-001MS
Test Notes :

Units : Percent
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery	
Carbon, Total Organic (TOC)	NONE	PSEP TOC	0.05	6.39	6.65	12.6	93	75-114	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : Former Custom Plywood Site
Project Number : 10654.001
Sample Matrix : SOIL

Service Request : K0808742
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 09/15/08

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K0808742-LCS
Test Notes :

Units : Percent
Basis : Dry

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Carbon, Total Organic (TOC)	NONE	PSEP TOC	0.42	0.45	107	74-123	
Carbon, Total Organic (TOC)	NONE	PSEP TOC	0.42	0.40	95	74-123	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654001
 Lab Code: K0808742-001

Sand Fraction: Dry Weight (Grams) 13.7788
 Sand Fraction: Weight Recovered (Grams) 14.2480
 Sand Fraction: Percent Recovery 103

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	4.9789	15.3
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	1.7052	5.22
Coarse Sand	500 to 1000	0 to 1 Ø	1.4522	4.45
Medium Sand	250 to 500	1 to 2 Ø	1.5493	4.75
Fine Sand	125 to 250	2 to 3 Ø	1.2536	3.84
Very Fine Sand	62.5 to 125	3 to 4 Ø	1.7477	5.35
Coarse Silt	31 to 62.5	4 to 5 Ø	9.0350	27.7
Medium Silt	15.6 to 31	5 to 6 Ø	5.6150	17.2
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.0850	6.39
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.1100	0.34
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.5700	1.75
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.2500	0.77
Fine Clay	< 0.98	> 10 Ø	1.3400	4.11
			31.6919	97.1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654002
Lab Code: K0808742-002

Sand Fraction: Dry Weight (Grams) 19.6439
 Sand Fraction: Weight Recovered (Grams) 19.5016
 Sand Fraction: Percent Recovery 99.3

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	1.7880	4.14
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.8555	1.98
Coarse Sand	500 to 1000	0 to 1 Ø	0.7370	1.71
Medium Sand	250 to 500	1 to 2 Ø	0.7797	1.81
Fine Sand	125 to 250	2 to 3 Ø	0.9924	2.30
Very Fine Sand	62.5 to 125	3 to 4 Ø	5.6010	13.0
Coarse Silt	31 to 62.5	4 to 5 Ø	16.4150	38.0
Medium Silt	15.6 to 31	5 to 6 Ø	7.3600	17.0
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.1250	4.92
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.1950	2.77
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.7200	1.67
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.3700	0.86
Fine Clay	< 0.98	> 10 Ø	1.3450	3.11
			40.2836	93.3

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654003
 Lab Code: K0808742-003

Sand Fraction: Dry Weight (Grams) 24.8577
 Sand Fraction: Weight Recovered (Grams) 24.9519
 Sand Fraction: Percent Recovery 100

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.9985	2.00
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.7931	1.59
Coarse Sand	500 to 1000	0 to 1 Ø	0.7919	1.58
Medium Sand	250 to 500	1 to 2 Ø	0.4110	0.82
Fine Sand	125 to 250	2 to 3 Ø	0.5800	1.16
Very Fine Sand	62.5 to 125	3 to 4 Ø	9.3963	18.8
Coarse Silt	31 to 62.5	4 to 5 Ø	17.9400	35.9
Medium Silt	15.6 to 31	5 to 6 Ø	8.5550	17.1
Fine Silt	7.8 to 15.6	6 to 7 Ø	3.6050	7.21
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	2.1750	4.35
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.3800	2.76
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.5000	1.00
Fine Clay	< 0.98	> 10 Ø	1.0200	2.04
			48.1458	96.3

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654004
Lab Code: K0808742-004

Sand Fraction: Dry Weight (Grams) 5.0248
 Sand Fraction: Weight Recovered (Grams) 5.0280
 Sand Fraction: Percent Recovery 100

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.3738	1.90
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.6010	3.05
Coarse Sand	500 to 1000	0 to 1 Ø	0.5902	3.00
Medium Sand	250 to 500	1 to 2 Ø	0.4279	2.17
Fine Sand	125 to 250	2 to 3 Ø	0.5564	2.82
Very Fine Sand	62.5 to 125	3 to 4 Ø	0.7472	3.79
Coarse Silt	31 to 62.5	4 to 5 Ø	5.3750	27.3
Medium Silt	15.6 to 31	5 to 6 Ø	6.0700	30.8
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.6050	8.15
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.8550	4.34
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.4050	2.06
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.2650	1.35
Fine Clay	< 0.98	> 10 Ø	0.9100	4.62
			18.7815	95.4

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654005
 Lab Code: K0808742-005

Sand Fraction: Dry Weight (Grams) 10.4479
 Sand Fraction: Weight Recovered (Grams) 10.5225
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	2.6812	10.9
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.4684	1.90
Coarse Sand	500 to 1000	0 to 1 Ø	0.4652	1.89
Medium Sand	250 to 500	1 to 2 Ø	0.6638	2.69
Fine Sand	125 to 250	2 to 3 Ø	0.9204	3.73
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.2445	9.10
Coarse Silt	31 to 62.5	4 to 5 Ø	6.8150	27.6
Medium Silt	15.6 to 31	5 to 6 Ø	4.1450	16.8
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.4850	6.02
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.2250	4.97
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.5550	2.25
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.4000	1.62
Fine Clay	< 0.98	> 10 Ø	0.7200	2.92
			22.7885	92.4

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654005
Lab Code: K0808742-005DUP

Sand Fraction: Dry Weight (Grams) 8.7857
 Sand Fraction: Weight Recovered (Grams) 8.8836
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.7001	2.84
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.2768	1.12
Coarse Sand	500 to 1000	0 to 1 Ø	0.4343	1.76
Medium Sand	250 to 500	1 to 2 Ø	0.6122	2.49
Fine Sand	125 to 250	2 to 3 Ø	0.7710	3.13
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.2900	9.30
Coarse Silt	31 to 62.5	4 to 5 Ø	4.6450	18.9
Medium Silt	15.6 to 31	5 to 6 Ø	9.4600	38.4
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.0150	8.19
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.0300	4.18
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.6050	2.46
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.4900	1.99
Fine Clay	< 0.98	> 10 Ø	0.7500	3.05
			24.0794	97.8

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654005
 Lab Code: K0808742-005TRIP

Sand Fraction: Dry Weight (Grams) 8.4136
 Sand Fraction: Weight Recovered (Grams) 8.4593
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.8493	3.43
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.3917	1.58
Coarse Sand	500 to 1000	0 to 1 Ø	0.5289	2.13
Medium Sand	250 to 500	1 to 2 Ø	0.6232	2.51
Fine Sand	125 to 250	2 to 3 Ø	0.8040	3.24
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.4792	10.0
Coarse Silt	31 to 62.5	4 to 5 Ø	8.6200	34.8
Medium Silt	15.6 to 31	5 to 6 Ø	4.4900	18.1
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.0100	8.11
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.8750	3.53
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.6000	2.42
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.4950	2.00
Fine Clay	< 0.98	> 10 Ø	0.6700	2.70
			23.4363	94.5

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654006
Lab Code: K0808742-006

Sand Fraction: Dry Weight (Grams) 21.2671
 Sand Fraction: Weight Recovered (Grams) 21.1488
 Sand Fraction: Percent Recovery 99.4

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	1.2492	2.65
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.6723	1.43
Coarse Sand	500 to 1000	0 to 1 Ø	0.5736	1.22
Medium Sand	250 to 500	1 to 2 Ø	0.6671	1.42
Fine Sand	125 to 250	2 to 3 Ø	1.0020	2.13
Very Fine Sand	62.5 to 125	3 to 4 Ø	8.1220	17.2
Coarse Silt	31 to 62.5	4 to 5 Ø	16.8650	35.8
Medium Silt	15.6 to 31	5 to 6 Ø	7.9300	16.8
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.7250	5.78
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.9450	4.13
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.2850	2.73
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.4150	0.88
Fine Clay	< 0.98	> 10 Ø	1.0450	2.22
			44.4962	94.4

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/3/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654007
 Lab Code: K0808742-007

Sand Fraction: Dry Weight (Grams) 8.2914
 Sand Fraction: Weight Recovered (Grams) 8.3132
 Sand Fraction: Percent Recovery 100

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	2.0262	9.74
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.7272	3.50
Coarse Sand	500 to 1000	0 to 1 Ø	1.1350	5.46
Medium Sand	250 to 500	1 to 2 Ø	0.7897	3.80
Fine Sand	125 to 250	2 to 3 Ø	0.8449	4.06
Very Fine Sand	62.5 to 125	3 to 4 Ø	1.1451	5.50
Coarse Silt	31 to 62.5	4 to 5 Ø	5.9600	28.6
Medium Silt	15.6 to 31	5 to 6 Ø	4.0050	19.3
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.1000	5.29
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.8200	3.94
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.3950	1.90
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.2150	1.03
Fine Clay	< 0.98	> 10 Ø	0.8450	4.06
			20.0081	96.2

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654008
Lab Code: K0808742-008

Sand Fraction: Dry Weight (Grams) 3.3027
 Sand Fraction: Weight Recovered (Grams) 3.3499
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.4702	2.27
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.3206	1.55
Coarse Sand	500 to 1000	0 to 1 Ø	0.3260	1.57
Medium Sand	250 to 500	1 to 2 Ø	0.3311	1.60
Fine Sand	125 to 250	2 to 3 Ø	0.4533	2.19
Very Fine Sand	62.5 to 125	3 to 4 Ø	0.4347	2.10
Coarse Silt	31 to 62.5	4 to 5 Ø	6.8550	33.1
Medium Silt	15.6 to 31	5 to 6 Ø	4.8250	23.3
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.1700	10.5
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.9500	4.58
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.5200	2.51
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.3750	1.81
Fine Clay	< 0.98	> 10 Ø	0.9300	4.49
			18.9609	91.5

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654009
 Lab Code: K0808742-009

Sand Fraction: Dry Weight (Grams) 19.4292
 Sand Fraction: Weight Recovered (Grams) 19.8402
 Sand Fraction: Percent Recovery 102

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	7.0503	21.1
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	1.8634	5.58
Coarse Sand	500 to 1000	0 to 1 Ø	2.0487	6.13
Medium Sand	250 to 500	1 to 2 Ø	2.3650	7.08
Fine Sand	125 to 250	2 to 3 Ø	1.7518	5.24
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.3569	7.06
Coarse Silt	31 to 62.5	4 to 5 Ø	7.1950	21.5
Medium Silt	15.6 to 31	5 to 6 Ø	4.9350	14.8
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.8600	5.57
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.9900	2.96
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.6500	1.95
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.5050	1.51
Fine Clay	< 0.98	> 10 Ø	1.3400	4.01
			34.9111	105

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654010
Lab Code: K0808742-010

Sand Fraction: Dry Weight (Grams) 12.5761
 Sand Fraction: Weight Recovered (Grams) 12.4473
 Sand Fraction: Percent Recovery 99.0

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	1.5369	5.41
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.2821	0.99
Coarse Sand	500 to 1000	0 to 1 Ø	0.7076	2.49
Medium Sand	250 to 500	1 to 2 Ø	0.6736	2.37
Fine Sand	125 to 250	2 to 3 Ø	0.8672	3.05
Very Fine Sand	62.5 to 125	3 to 4 Ø	3.9216	13.8
Coarse Silt	31 to 62.5	4 to 5 Ø	9.6500	34.0
Medium Silt	15.6 to 31	5 to 6 Ø	4.3350	15.3
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.8400	6.48
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.4400	5.07
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.0200	3.59
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.1850	0.65
Fine Clay	< 0.98	> 10 Ø	0.7500	2.64
			27.2090	95.8

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654011
Lab Code: K0808742-011

Sand Fraction: Dry Weight (Grams) 7.6329
 Sand Fraction: Weight Recovered (Grams) 7.4186
 Sand Fraction: Percent Recovery 97.2

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	1.8752	7.46
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.2412	0.96
Coarse Sand	500 to 1000	0 to 1 Ø	0.3911	1.55
Medium Sand	250 to 500	1 to 2 Ø	0.4978	1.98
Fine Sand	125 to 250	2 to 3 Ø	0.6936	2.76
Very Fine Sand	62.5 to 125	3 to 4 Ø	1.0367	4.12
Coarse Silt	31 to 62.5	4 to 5 Ø	9.2550	36.8
Medium Silt	15.6 to 31	5 to 6 Ø	5.1250	20.4
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.4350	5.71
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.2750	5.07
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.4500	1.79
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.2250	0.89
Fine Clay	< 0.98	> 10 Ø	0.7050	2.80
			23.2056	92.3

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654012
 Lab Code: K0808742-012

Sand Fraction: Dry Weight (Grams) 8.1779
 Sand Fraction: Weight Recovered (Grams) 8.1540
 Sand Fraction: Percent Recovery 99.7

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.6929	2.88
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.4786	1.99
Coarse Sand	500 to 1000	0 to 1 Ø	0.6392	2.65
Medium Sand	250 to 500	1 to 2 Ø	0.9332	3.87
Fine Sand	125 to 250	2 to 3 Ø	0.9220	3.83
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.0694	8.59
Coarse Silt	31 to 62.5	4 to 5 Ø	8.0550	33.4
Medium Silt	15.6 to 31	5 to 6 Ø	4.2250	17.5
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.8400	7.64
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.5200	6.31
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.6600	2.74
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.5000	2.08
Fine Clay	< 0.98	> 10 Ø	0.7700	3.20
			23.3053	96.8

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654013
Lab Code: K0808742-013

Sand Fraction: Dry Weight (Grams) 7.7563
 Sand Fraction: Weight Recovered (Grams) 7.6459
 Sand Fraction: Percent Recovery 98.6

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.3091	1.17
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.1872	0.71
Coarse Sand	500 to 1000	0 to 1 Ø	0.4074	1.54
Medium Sand	250 to 500	1 to 2 Ø	0.4592	1.74
Fine Sand	125 to 250	2 to 3 Ø	0.6343	2.40
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.2532	8.52
Coarse Silt	31 to 62.5	4 to 5 Ø	9.6000	36.3
Medium Silt	15.6 to 31	5 to 6 Ø	4.7200	17.9
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.2900	8.66
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.5300	5.79
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.2900	4.88
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.1450	0.55
Fine Clay	< 0.98	> 10 Ø	0.8500	3.22
			24.6754	93.3

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654014
 Lab Code: K0808742-014

Sand Fraction: Dry Weight (Grams) 6.7079
 Sand Fraction: Weight Recovered (Grams) 6.9402
 Sand Fraction: Percent Recovery 103

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	2.0597	9.88
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.6172	2.96
Coarse Sand	500 to 1000	0 to 1 Ø	0.9621	4.61
Medium Sand	250 to 500	1 to 2 Ø	0.9339	4.48
Fine Sand	125 to 250	2 to 3 Ø	0.7519	3.61
Very Fine Sand	62.5 to 125	3 to 4 Ø	0.8253	3.96
Coarse Silt	31 to 62.5	4 to 5 Ø	6.0500	29.0
Medium Silt	15.6 to 31	5 to 6 Ø	3.6350	17.4
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.8700	8.97
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.4100	6.76
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.6250	3.00
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.4050	1.94
Fine Clay	< 0.98	> 10 Ø	0.9400	4.51
			21.0851	101

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654015
Lab Code: K0808742-015

Sand Fraction: Dry Weight (Grams) 8.6299
 Sand Fraction: Weight Recovered (Grams) 8.8417
 Sand Fraction: Percent Recovery 102

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.7598	3.22
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.7144	3.03
Coarse Sand	500 to 1000	0 to 1 Ø	0.6509	2.76
Medium Sand	250 to 500	1 to 2 Ø	0.7347	3.12
Fine Sand	125 to 250	2 to 3 Ø	0.7685	3.26
Very Fine Sand	62.5 to 125	3 to 4 Ø	1.9048	8.08
Coarse Silt	31 to 62.5	4 to 5 Ø	7.8250	33.2
Medium Silt	15.6 to 31	5 to 6 Ø	4.4550	18.9
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.6500	7.00
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.1400	4.83
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.6650	2.82
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.5550	2.35
Fine Clay	< 0.98	> 10 Ø	0.7550	3.20
			22.5781	95.7

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654016
 Lab Code: K0808742-016

Sand Fraction: Dry Weight (Grams) 9.2176
 Sand Fraction: Weight Recovered (Grams) 9.1237
 Sand Fraction: Percent Recovery 99.0

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.5227	1.93
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.3040	1.12
Coarse Sand	500 to 1000	0 to 1 Ø	0.3144	1.16
Medium Sand	250 to 500	1 to 2 Ø	0.5225	1.93
Fine Sand	125 to 250	2 to 3 Ø	0.7533	2.78
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.8310	10.4
Coarse Silt	31 to 62.5	4 to 5 Ø	9.1950	33.9
Medium Silt	15.6 to 31	5 to 6 Ø	5.3050	19.5
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.4750	9.12
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	2.0950	7.72
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.3300	4.90
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.2150	0.79
Fine Clay	< 0.98	> 10 Ø	0.7400	2.73
			26.6029	98.0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654017
 Lab Code: K0808742-017

Sand Fraction: Dry Weight (Grams) 8.1437
 Sand Fraction: Weight Recovered (Grams) 8.0271
 Sand Fraction: Percent Recovery 98.6

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.3943	1.43
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.1800	0.65
Coarse Sand	500 to 1000	0 to 1 Ø	0.2999	1.08
Medium Sand	250 to 500	1 to 2 Ø	0.3554	1.29
Fine Sand	125 to 250	2 to 3 Ø	0.7011	2.54
Very Fine Sand	62.5 to 125	3 to 4 Ø	3.0354	11.0
Coarse Silt	31 to 62.5	4 to 5 Ø	9.5050	34.4
Medium Silt	15.6 to 31	5 to 6 Ø	5.4550	19.7
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.6000	9.40
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.8900	6.83
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.5150	5.48
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.3850	1.39
Fine Clay	< 0.98	> 10 Ø	0.7100	2.57
			27.0261	97.7

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654018
 Lab Code: K0808742-018

Sand Fraction: Dry Weight (Grams) 5.4278
 Sand Fraction: Weight Recovered (Grams) 5.4704
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	1.0388	4.29
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.4379	1.81
Coarse Sand	500 to 1000	0 to 1 Ø	0.5287	2.18
Medium Sand	250 to 500	1 to 2 Ø	0.6581	2.72
Fine Sand	125 to 250	2 to 3 Ø	0.7005	2.89
Very Fine Sand	62.5 to 125	3 to 4 Ø	0.8600	3.55
Coarse Silt	31 to 62.5	4 to 5 Ø	1.9000	7.84
Medium Silt	15.6 to 31	5 to 6 Ø	11.4350	47.2
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.8850	7.78
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.2950	5.34
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.7850	3.24
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.5150	2.13
Fine Clay	< 0.98	> 10 Ø	0.7950	3.28
			22.8340	94.2

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/4/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654019
 Lab Code: K0808742-019

Sand Fraction: Dry Weight (Grams) 8.3838
 Sand Fraction: Weight Recovered (Grams) 8.4858
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	2.8988	12.2
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.5320	2.24
Coarse Sand	500 to 1000	0 to 1 Ø	0.6521	2.74
Medium Sand	250 to 500	1 to 2 Ø	0.7653	3.22
Fine Sand	125 to 250	2 to 3 Ø	0.6891	2.90
Very Fine Sand	62.5 to 125	3 to 4 Ø	1.6818	7.08
Coarse Silt	31 to 62.5	4 to 5 Ø	7.1300	30.0
Medium Silt	15.6 to 31	5 to 6 Ø	4.1400	17.4
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.5950	6.71
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.2800	5.39
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.9150	3.85
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.4100	1.73
Fine Clay	< 0.98	> 10 Ø	0.7100	2.99
			23.3991	98.5

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654020
 Lab Code: K0808742-020

Sand Fraction: Dry Weight (Grams) 15.1980
 Sand Fraction: Weight Recovered (Grams) 14.9974
 Sand Fraction: Percent Recovery 98.7

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	2.4777	5.95
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.6631	1.59
Coarse Sand	500 to 1000	0 to 1 Ø	0.6448	1.55
Medium Sand	250 to 500	1 to 2 Ø	0.8328	2.00
Fine Sand	125 to 250	2 to 3 Ø	1.0186	2.45
Very Fine Sand	62.5 to 125	3 to 4 Ø	3.8870	9.33
Coarse Silt	31 to 62.5	4 to 5 Ø	15.3750	36.9
Medium Silt	15.6 to 31	5 to 6 Ø	8.7150	20.9
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.8100	6.75
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.6200	3.89
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.4650	3.52
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.4050	0.97
Fine Clay	< 0.98	> 10 Ø	1.1050	2.65
			41.0190	98.5

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654020
 Lab Code: K0808742-020DUP

Sand Fraction: Dry Weight (Grams) 15.3227
 Sand Fraction: Weight Recovered (Grams) 15.1880
 Sand Fraction: Percent Recovery 99.1

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	1.0429	2.49
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.9670	2.31
Coarse Sand	500 to 1000	0 to 1 Ø	0.5290	1.26
Medium Sand	250 to 500	1 to 2 Ø	0.5468	1.30
Fine Sand	125 to 250	2 to 3 Ø	0.5521	1.32
Very Fine Sand	62.5 to 125	3 to 4 Ø	3.7974	9.06
Coarse Silt	31 to 62.5	4 to 5 Ø	8.3000	19.8
Medium Silt	15.6 to 31	5 to 6 Ø	20.2000	48.2
Fine Silt	7.8 to 15.6	6 to 7 Ø	3.2600	7.78
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.8550	4.43
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.2950	3.09
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.3550	0.85
Fine Clay	< 0.98	> 10 Ø	1.0300	2.46
			43.7302	104

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654020
Lab Code: K0808742-020TRIP

Sand Fraction: Dry Weight (Grams) 20.7104
 Sand Fraction: Weight Recovered (Grams) 20.4408
 Sand Fraction: Percent Recovery 98.7

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	2.4840	5.96
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	1.3808	3.31
Coarse Sand	500 to 1000	0 to 1 Ø	0.7249	1.74
Medium Sand	250 to 500	1 to 2 Ø	0.5764	1.38
Fine Sand	125 to 250	2 to 3 Ø	0.5559	1.33
Very Fine Sand	62.5 to 125	3 to 4 Ø	5.2784	12.7
Coarse Silt	31 to 62.5	4 to 5 Ø	6.0250	14.4
Medium Silt	15.6 to 31	5 to 6 Ø	18.6400	44.7
Fine Silt	7.8 to 15.6	6 to 7 Ø	3.8150	9.15
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	2.3700	5.68
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.5000	3.60
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.5100	1.22
Fine Clay	< 0.98	> 10 Ø	1.0800	2.59
			44.9404	108

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654021
Lab Code: K0808742-021

Sand Fraction: Dry Weight (Grams) 10.9215
 Sand Fraction: Weight Recovered (Grams) 10.7025
 Sand Fraction: Percent Recovery 98.0

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	2.0849	5.38
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.6371	1.64
Coarse Sand	500 to 1000	0 to 1 Ø	0.9072	2.34
Medium Sand	250 to 500	1 to 2 Ø	1.1465	2.96
Fine Sand	125 to 250	2 to 3 Ø	1.7396	4.49
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.0973	5.41
Coarse Silt	31 to 62.5	4 to 5 Ø	13.1000	33.8
Medium Silt	15.6 to 31	5 to 6 Ø	8.4650	21.8
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.5850	6.67
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.7500	4.52
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.8150	2.10
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.6550	1.69
Fine Clay	< 0.98	> 10 Ø	1.6250	4.19
			37.6076	97.0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654022
Lab Code: K0808742-022

Sand Fraction: Dry Weight (Grams) 12.2435
 Sand Fraction: Weight Recovered (Grams) 12.0518
 Sand Fraction: Percent Recovery 98.4

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	1.4108	3.44
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.4297	1.05
Coarse Sand	500 to 1000	0 to 1 Ø	0.4275	1.04
Medium Sand	250 to 500	1 to 2 Ø	0.7661	1.87
Fine Sand	125 to 250	2 to 3 Ø	1.0878	2.66
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.5888	6.32
Coarse Silt	31 to 62.5	4 to 5 Ø	17.2600	42.1
Medium Silt	15.6 to 31	5 to 6 Ø	8.9100	21.8
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.0100	4.91
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.4200	3.47
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.6850	1.67
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.4650	1.14
Fine Clay	< 0.98	> 10 Ø	1.4550	3.55
			38.9157	95.0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654023
Lab Code: K0808742-023

Sand Fraction: Dry Weight (Grams) 9.0823
 Sand Fraction: Weight Recovered (Grams) 9.1452
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	4.3426	15.4
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.3746	1.33
Coarse Sand	500 to 1000	0 to 1 Ø	0.4146	1.47
Medium Sand	250 to 500	1 to 2 Ø	0.4334	1.53
Fine Sand	125 to 250	2 to 3 Ø	0.6840	2.42
Very Fine Sand	62.5 to 125	3 to 4 Ø	2.4608	8.71
Coarse Silt	31 to 62.5	4 to 5 Ø	5.5950	19.8
Medium Silt	15.6 to 31	5 to 6 Ø	4.9650	17.6
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.8950	6.71
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	2.0850	7.38
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.6250	5.75
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.3850	1.36
Fine Clay	< 0.98	> 10 Ø	0.5800	2.05
			25.8400	91.4

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654024
 Lab Code: K0808742-024

Sand Fraction: Dry Weight (Grams) 18.3014
 Sand Fraction: Weight Recovered (Grams) 18.0694
 Sand Fraction: Percent Recovery 98.7

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	2.0036	4.75
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.9154	2.17
Coarse Sand	500 to 1000	0 to 1 Ø	0.7168	1.70
Medium Sand	250 to 500	1 to 2 Ø	1.8026	4.28
Fine Sand	125 to 250	2 to 3 Ø	4.1493	9.84
Very Fine Sand	62.5 to 125	3 to 4 Ø	3.0004	7.12
Coarse Silt	31 to 62.5	4 to 5 Ø	13.4350	31.9
Medium Silt	15.6 to 31	5 to 6 Ø	7.4950	17.8
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.7900	6.62
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.5050	3.57
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.9750	2.31
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.7500	1.78
Fine Clay	< 0.98	> 10 Ø	1.2650	3.00
			40.8031	96.8

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654025
 Lab Code: K0808742-025

Sand Fraction: Dry Weight (Grams) 17.6333
 Sand Fraction: Weight Recovered (Grams) 17.3224
 Sand Fraction: Percent Recovery 98.2

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	1.5738	3.97
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	1.0085	2.55
Coarse Sand	500 to 1000	0 to 1 Ø	1.5735	3.97
Medium Sand	250 to 500	1 to 2 Ø	1.8288	4.62
Fine Sand	125 to 250	2 to 3 Ø	1.9083	4.82
Very Fine Sand	62.5 to 125	3 to 4 Ø	3.7765	9.53
Coarse Silt	31 to 62.5	4 to 5 Ø	14.0750	35.5
Medium Silt	15.6 to 31	5 to 6 Ø	7.6700	19.4
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.8450	4.66
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.3950	3.52
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.8200	2.07
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.5650	1.43
Fine Clay	< 0.98	> 10 Ø	1.2350	3.12
			39.2744	99.1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654026
Lab Code: K0808742-026

Sand Fraction: Dry Weight (Grams) 13.2418
 Sand Fraction: Weight Recovered (Grams) 13.0747
 Sand Fraction: Percent Recovery 98.7

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	0.6735	1.62
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.4677	1.13
Coarse Sand	500 to 1000	0 to 1 Ø	0.7046	1.70
Medium Sand	250 to 500	1 to 2 Ø	0.9227	2.23
Fine Sand	125 to 250	2 to 3 Ø	1.0691	2.58
Very Fine Sand	62.5 to 125	3 to 4 Ø	3.9228	9.46
Coarse Silt	31 to 62.5	4 to 5 Ø	16.0050	38.6
Medium Silt	15.6 to 31	5 to 6 Ø	8.4600	20.4
Fine Silt	7.8 to 15.6	6 to 7 Ø	2.3450	5.66
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	1.7200	4.15
Coarse Clay	1.95 to 3.9	8 to 9 Ø	1.2200	2.94
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.5850	1.41
Fine Clay	< 0.98	> 10 Ø	1.3850	3.34
			39.4804	95.2

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654027
 Lab Code: K0808742-027

Sand Fraction: Dry Weight (Grams) 69.9268
 Sand Fraction: Weight Recovered (Grams) 69.9101
 Sand Fraction: Percent Recovery 100

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	10.1308	13.3
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	3.0499	3.99
Coarse Sand	500 to 1000	0 to 1 Ø	2.3522	3.08
Medium Sand	250 to 500	1 to 2 Ø	13.6266	17.8
Fine Sand	125 to 250	2 to 3 Ø	30.9081	40.5
Very Fine Sand	62.5 to 125	3 to 4 Ø	9.2104	12.1
Coarse Silt	31 to 62.5	4 to 5 Ø	1.7900	2.34
Medium Silt	15.6 to 31	5 to 6 Ø	1.7900	2.34
Fine Silt	7.8 to 15.6	6 to 7 Ø	0.9450	1.24
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.9450	1.24
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.7850	1.03
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.3400	0.45
Fine Clay	< 0.98	> 10 Ø	0.5050	0.66
			76.3780	100

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/5/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654028
 Lab Code: K0808742-028

Sand Fraction: Dry Weight (Grams) 47.2625
 Sand Fraction: Weight Recovered (Grams) 47.1463
 Sand Fraction: Percent Recovery 100

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	3.6040	6.78
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.9490	1.78
Coarse Sand	500 to 1000	0 to 1 Ø	1.0180	1.91
Medium Sand	250 to 500	1 to 2 Ø	5.0988	9.59
Fine Sand	125 to 250	2 to 3 Ø	27.4754	51.7
Very Fine Sand	62.5 to 125	3 to 4 Ø	8.3143	15.6
Coarse Silt	31 to 62.5	4 to 5 Ø	1.4250	2.68
Medium Silt	15.6 to 31	5 to 6 Ø	1.1900	2.24
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.2400	2.33
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.9350	1.76
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.4950	0.93
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.3400	0.64
Fine Clay	< 0.98	> 10 Ø	0.6050	1.14
			52.6895	99.1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/8/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654029
 Lab Code: K0808742-029

Sand Fraction: Dry Weight (Grams) 88.9144
 Sand Fraction: Weight Recovered (Grams) 88.9936
 Sand Fraction: Percent Recovery 100

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	56.5817	63.0
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	12.2465	13.6
Coarse Sand	500 to 1000	0 to 1 Ø	10.6308	11.8
Medium Sand	250 to 500	1 to 2 Ø	6.7160	7.48
Fine Sand	125 to 250	2 to 3 Ø	2.1608	2.41
Very Fine Sand	62.5 to 125	3 to 4 Ø	0.5564	0.62
Coarse Silt	31 to 62.5	4 to 5 Ø	0.3350	0.37
Medium Silt	15.6 to 31	5 to 6 Ø	0.5400	0.60
Fine Silt	7.8 to 15.6	6 to 7 Ø	0.6750	0.75
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.7550	0.84
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.3450	0.38
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.2050	0.23
Fine Clay	< 0.98	> 10 Ø	0.0000	0.00
			91.7472	102

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/8/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654030
 Lab Code: K0808742-030

Sand Fraction: Dry Weight (Grams) 33.4528
 Sand Fraction: Weight Recovered (Grams) 33.7912
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	14.7778	46.0
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	3.5377	11.0
Coarse Sand	500 to 1000	0 to 1 Ø	8.3425	26.0
Medium Sand	250 to 500	1 to 2 Ø	4.9948	15.5
Fine Sand	125 to 250	2 to 3 Ø	1.6710	5.20
Very Fine Sand	62.5 to 125	3 to 4 Ø	0.4132	1.29
Coarse Silt	31 to 62.5	4 to 5 Ø	0.0900	0.28
Medium Silt	15.6 to 31	5 to 6 Ø	0.2500	0.78
Fine Silt	7.8 to 15.6	6 to 7 Ø	0.3550	1.10
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.2200	0.68
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.0900	0.28
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.0400	0.12
Fine Clay	< 0.98	> 10 Ø	0.0000	0.00
			34.7820	108

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/8/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654031
 Lab Code: K0808742-031

Sand Fraction: Dry Weight (Grams) 32.2599
 Sand Fraction: Weight Recovered (Grams) 32.5119
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	15.1862	46.6
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	3.7758	11.6
Coarse Sand	500 to 1000	0 to 1 Ø	7.0345	21.6
Medium Sand	250 to 500	1 to 2 Ø	4.9177	15.1
Fine Sand	125 to 250	2 to 3 Ø	1.2561	3.85
Very Fine Sand	62.5 to 125	3 to 4 Ø	0.2894	0.89
Coarse Silt	31 to 62.5	4 to 5 Ø	0.0600	0.18
Medium Silt	15.6 to 31	5 to 6 Ø	0.1300	0.40
Fine Silt	7.8 to 15.6	6 to 7 Ø	0.3300	0.08
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.1750	0.54
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.0250	0.08
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.0250	0.08
Fine Clay	< 0.98	> 10 Ø	0.0000	0.00
			33.2047	101

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/8/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654032
 Lab Code: K0808742-032

Sand Fraction: Dry Weight (Grams) 28.5567
 Sand Fraction: Weight Recovered (Grams) 28.7238
 Sand Fraction: Percent Recovery 101

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	10.2763	35.9
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	1.6400	5.73
Coarse Sand	500 to 1000	0 to 1 Ø	4.0669	14.2
Medium Sand	250 to 500	1 to 2 Ø	7.1319	24.9
Fine Sand	125 to 250	2 to 3 Ø	3.7339	13.0
Very Fine Sand	62.5 to 125	3 to 4 Ø	1.4691	5.13
Coarse Silt	31 to 62.5	4 to 5 Ø	0.5050	1.76
Medium Silt	15.6 to 31	5 to 6 Ø	0.8250	2.88
Fine Silt	7.8 to 15.6	6 to 7 Ø	0.3750	1.31
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.2550	0.89
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.1200	0.42
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.0650	0.23
Fine Clay	< 0.98	> 10 Ø	0.1350	0.47
			30.5981	107

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/8/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654033
 Lab Code: K0808742-033

Sand Fraction: Dry Weight (Grams) 85.5125
 Sand Fraction: Weight Recovered (Grams) 85.8429
 Sand Fraction: Percent Recovery 100

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	61.9531	72.3
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	6.7040	7.82
Coarse Sand	500 to 1000	0 to 1 Ø	10.0059	11.7
Medium Sand	250 to 500	1 to 2 Ø	6.0203	7.02
Fine Sand	125 to 250	2 to 3 Ø	0.9612	1.12
Very Fine Sand	62.5 to 125	3 to 4 Ø	0.1833	0.21
Coarse Silt	31 to 62.5	4 to 5 Ø	0.0000	0.00
Medium Silt	15.6 to 31	5 to 6 Ø	0.1800	0.21
Fine Silt	7.8 to 15.6	6 to 7 Ø	0.2350	0.27
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.1250	0.15
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.1350	0.16
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.0700	0.08
Fine Clay	< 0.98	> 10 Ø	0.0000	0.00
			86.5728	101

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AMEC Geomatrix, Inc.
Project: Former Custom Plywood Site/10654.001
Sample Matrix: Soil

Service Request: K0808742
Date Collected: 9/8/2008
Date Received: 9/11/2008
Date Analyzed: 9/12/2008

Particle Size Determination
 Puget Sound Estuary Program Protocol

Sample Name: 10654034
 Lab Code: K0808742-034

Sand Fraction: Dry Weight (Grams) 44.4446
 Sand Fraction: Weight Recovered (Grams) 44.4920
 Sand Fraction: Percent Recovery 100

Description	Microns	Phi Size	Dry Weight (Grams)	Percent of Total Weight Recovered
Gravel	> 2000	<-1 Ø	5.6620	10.5
Very Coarse Sand	1000 to 2000	-1 to 0 Ø	0.9015	1.67
Coarse Sand	500 to 1000	0 to 1 Ø	1.1284	2.09
Medium Sand	250 to 500	1 to 2 Ø	4.8978	9.06
Fine Sand	125 to 250	2 to 3 Ø	21.7844	40.3
Very Fine Sand	62.5 to 125	3 to 4 Ø	9.4450	17.5
Coarse Silt	31 to 62.5	4 to 5 Ø	2.4650	4.56
Medium Silt	15.6 to 31	5 to 6 Ø	2.4350	4.51
Fine Silt	7.8 to 15.6	6 to 7 Ø	1.2950	2.40
Very Fine Silt	3.9 to 7.8	7 to 8 Ø	0.8250	1.53
Coarse Clay	1.95 to 3.9	8 to 9 Ø	0.7150	1.32
Medium Clay	0.98 to 1.95	9 to 10 Ø	0.3350	0.62
Fine Clay	< 0.98	> 10 Ø	0.6550	1.21
			52.5441	97.2

September 18, 2008

Analytical Report for Service Request No: K0808749

Robert Gilmour
AMEC Geomatrix, Inc.
3500 188th Stree SW
Suite 600
Lynnwood, WA 98037

Dear Robert:

Enclosed are the results of the rush samples submitted to our laboratory on September 11, 2008. For your reference, these analyses have been assigned our service request number K0808749.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

P
09/18/08
Pradeep Divvela
Project Chemist

PD/ss

Page 1 of 29

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: AMEC Geomatrix, Inc.
Project: Anacortes - Proj 2
Sample Matrix: Pore Water

Service Request No.: K0808749
Date Received: 09/11/2008

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Twenty nine Pore Water samples were received for analysis at Columbia Analytical Services on 09/11/2008. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Total Sulfide by SM 4500-S2-D

Samples 10654001 10654002, 0654003, 0654003, 0654004, 0654005, 0654006 and 10654007 were received past the recommended holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation.

No other anomalies associated with the analysis of these samples were observed

Approved by  _____ Date  _____

Chain of Custody Documentation

CHAIN OF CUSTODY

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis									
SMS List of COCs	Mercury (digest and ho	TVS/TOC/TSS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive	

Checked by:

AMEC Geomatrix
 10654001
 COC Form
 Initials: RG
 Date: 9/3/08 Time: 1128

Date:										Number of containers <u>4</u>
Time:										

AMEC Geomatrix
 10654002
 COC Form
 Initials: RG
 Date: 9/3/08 Time: 1239

Date:										Number of containers <u>4</u>
Time:										

AMEC Geomatrix
 10654003
 COC Form
 Initials: RG
 Date: 9/3/08 Time: 1321

Date:										Number of containers <u>4</u>
Time:										

AMEC Geomatrix
 10654004
 COC Form
 Initials: GS
 Date: 9-3-08 Time: 1414

Date:										Number of containers <u>4</u>
Time:										

AMEC Geomatrix
 10654005
 COC Form
 Initials: GS
 Date: 9-3-08 Time: 1617

Date:										Number of containers <u>4</u>
Time:										

AMEC Geomatrix
 10654006
 COC Form
 Initials: GS
 Date: 9-3-08 Time: 1709

Date:										Number of containers <u>4</u>
Time:										

AMEC Geomatrix
 10654007
 COC Form
 Initials: GS
 Date: 9-3-08 Time: 1759

Date:										Number of containers <u>4</u>
Time:										

Laboratory/Analysis Comments
 Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

Relinquished By	Transported By	Received By
Name: <u>Kathleen Goodman</u> Date: <u>9/3/08</u> Time: <u>1340</u>	Name: <u>FedEx</u>	Name: <u> </u> Date: <u> </u> Time: <u> </u>
Name: <u> </u> Date: <u> </u> Time: <u> </u>		Name: <u> </u> Date: <u> </u> Time: <u> </u>

Former Custom Plywood Site

CAS

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis							
SMS List of COCs	Mercury (digest and ho	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)

Checked by: _____

AMEC Geomatrix
 10654008
 COC Form
 Initials: GSN
 Date: 9-4-08 Time: 823

AMEC Geomatrix
 10654009
 COC Form
 Initials: GSN
 Date: 9-4-08 Time: 937

AMEC Geomatrix
 10654010
 COC Form
 Initials: GSN
 Date: 9-4-08 Time: 1019

AMEC Geomatrix
 10654011
 COC Form
 Initials: GSN
 Date: 9-4-08 Time: 1059

AMEC Geomatrix
 10654012
 COC Form
 Initials: GSN
 Date: 9-4-08 Time: 1129

AMEC Geomatrix
 10654013
 COC Form
 Initials: GSN
 Date: 9-4-08 Time: 1304

AMEC Geomatrix
 10654014
 COC Form
 Initials: GSN
 Date: 9-4-08 Time: 1341

Date:								Number of containers
Time:								4
Date:								Number of containers
Time:								4
Date:								Number of containers
Time:								4
Date:								Number of containers
Time:								4
Date:								Number of containers
Time:								4
Date:								Number of containers
Time:								4

Laboratory/Analysis Comments

Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

Relinquished By	Transported By	Received By
Name: <u>GSN</u>	Name: <u>Paula Smith</u>	Name: <u>Paula Smith</u>
Date: <u>9/9/08</u>	Date: <u>9/11/08</u>	Date: <u>9/11/08</u>
Time: <u>1340</u>	Time: <u>FedEx</u>	Time: <u>0400</u>
Name:	Name:	Name:
Date:	Date:	Date:
Time:	Time:	Time:

Handwritten initials

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis								
SMS List of COCs	Mercury (digest and hc)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive

Checked by:

AMEC Geomatrix 10654015 COC Form Initials: <u>GSN</u> Date: <u>9-4-08</u> Time: <u>1419</u>	Date: Time:	/ / / /	Number of containers
AMEC Geomatrix 10654016 COC Form Initials: <u>GSN</u> Date: <u>9-4-08</u> Time: <u>1458</u>	Date: Time:	/ / / /	Number of containers
AMEC Geomatrix 10654017 COC Form Initials: <u>GSN</u> Date: <u>9-4-08</u> Time: <u>1530</u>	Date: Time:	/ / / /	Number of containers
AMEC Geomatrix 10654018 COC Form Initials: <u>GSN</u> Date: <u>9-4-08</u> Time: <u>1635</u>	Date: Time:	/ / / /	Number of containers
AMEC Geomatrix 10654019 COC Form Initials: <u>GSN</u> Date: <u>9-4-08</u> Time: <u>1707</u>	Date: Time:	/ / / /	Number of containers
AMEC Geomatrix 10654020 COC Form Initials: <u>GSN</u> Date: <u>9-5-08</u> Time: <u>831</u>	Date: Time:	/ / / /	Number of containers
AMEC Geomatrix 10654021 COC Form Initials: <u>GSN</u> Date: <u>9-5-08</u> Time: <u>923</u>	Date: Time:	/ / / /	Number of containers

Laboratory/Analysis Comments
Project Number 10654.001 Former Custom Plywood Site Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003 Cliff Whitmus 425-921-4023

Relinquished By	Transported By	Received By
Name: <u> </u> Date: <u>9/4/08</u> Time: <u>1340</u>	<u>fedEx</u>	Name: <u> </u> Date: <u> </u> Time: <u> </u>
Name: <u> </u> Date: <u> </u> Time: <u> </u>		Name: <u> </u> Date: <u> </u> Time: <u> </u>

Former Custom Plywood Site

CHAIN OF CUSTODY

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis										
SMS List of COCs	Mercury (digest and hc)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive		

Checked by:

AMEC Geomatrix
 10654022
 COC Form
 Initials: ESM
 Date: 9-5-08 Time: 10:15

Date:											Number of containers 4
Time:			11/11								

AMEC Geomatrix
 10654023
 COC Form
 Initials: ESM
 Date: 9-5-08 Time: 10:51

Date:											Number of containers 4
Time:			11/11								

AMEC Geomatrix
 10654024
 COC Form
 Initials: ESM
 Date: 9-5-08 Time: 12:22

Date:											Number of containers
Time:			11/11								

AMEC Geomatrix
 10654025
 COC Form
 Initials: ESM
 Date: 9-5-08 Time: 13:08

Date:											Number of containers
Time:			11/11								

AMEC Geomatrix
 10654026
 COC Form
 Initials: ESM
 Date: 9-5-08 Time: 13:42

Date:											Number of containers 4
Time:			11/11								

AMEC Geomatrix
 10654027
 COC Form
 Initials: ESM
 Date: 9-5-08 Time: 14:33

Date:											Number of containers 4
Time:			11/11								

AMEC Geomatrix
 10654028
 COC Form
 Initials: ESM
 Date: 9-5-08 Time: 15:20

Date:											Number of containers 4
Time:			11/11								

Laboratory/Analysis Comments
 Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

Relinquished By	Transported By	Received By
Name: <u>R. Gilmour</u>	FedEx	Name: <u> </u>
Date: <u>9/19/08</u>		Date: <u> </u>
Time: <u>13:40</u>		Time: <u> </u>
Name: <u> </u>		Name: <u> </u>
Date: <u> </u>		Date: <u> </u>
Time: <u> </u>		Time: <u> </u>

Former Custom Plywood Site

Plan Entry TAT

CHE

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis									
SMS List of COCs	Mercury (digest and hd)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive	

Checked by: _____

AMEC Geomatrix
 10654029
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 0827

Date:											Number of containers 2
Time:											

AMEC Geomatrix
 10654030
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 904

Date:											Number of containers 2
Time:											

AMEC Geomatrix
 10654031
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 903

Date:											Number of containers 1
Time:											

AMEC Geomatrix
 10654032
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 946

Date:											Number of containers 2
Time:											

AMEC Geomatrix
 10654033
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 1027

Date:											Number of containers 4
Time:											

AMEC Geomatrix
 10654034
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 1122

Date:											Number of containers 4
Time:											

Place Sample ID Label Here
 or Write ID Number Here

Date:											Number of containers 1
Time:											

Laboratory/Analysis Comments
 Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 CIH Whitmus 425-921-4023

Relinquished By		Transported By		Received By	
Name: <u>[Signature]</u>	Date: <u>9/9/08</u>	Name: <u>[Signature]</u>	Date: <u>[Signature]</u>	Name: <u>[Signature]</u>	Date: <u>[Signature]</u>
Time: <u>1340</u>					
Name:	Date:	Name:	Date:	Name:	Date:
Time:		Time:		Time:	

Former Custom Plywood Site

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC DD

Client / Project: GeoMatrix Service Request ~~K08 08742~~ 08749
 Received: 9-11-8 Opened: 9-11-8 By: LM

1. Samples were received via? US Mail ~~FedEx~~ UPS DHL GH GS PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other NA
3. Were custody seals on coolers? NA Y If yes, how many and where? _____
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? If not, record air-bill number: _____ NA N
5. Temperature of cooler(s) upon receipt (°C): 16.2 16.7 15.0 15.2 15.1
 Temperature Blank (°C): 17.1 17.1 15.5 15.4 14.7
6. If applicable, list Chain of Custody Numbers: _____
7. Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA N
9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA N
11. Did all sample labels and tags agree with custody papers? Indicate in the table below. NA N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA N
13. Were the pH-preserved bottles tested* received at the appropriate pH? Indicate in the table below. Y N
14. Were VOA vials and 1631 Mercury bottles received without headspace? Indicate in the table below. Y N
15. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? Y N
16. Was C12/Res negative? Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials
<u>all</u>			<u>X</u>							<u>LM</u>
<u>10654008</u>	<u>1</u>	<u>16oz J</u>			<u>X</u>					<u>LM</u>
<u>10654014</u>	<u>1</u>	<u>32oz J</u>			<u>X</u>					<u>LM</u>
<u>10654019</u>	<u>1</u>	<u>16oz J</u>			<u>X</u>					<u>LM</u>
<u>10654021</u>	<u>1</u>				<u>X</u>					<u>LM</u>

*Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).
 Additional Notes, Discrepancies, & Resolutions: Broken lid on 10654008, 10654014, 10654019. Extra bottle rec'd on 10654034.

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : PORE WATER

Service Request : K0808749
Date Collected : 09/03-05/08
Date Received : 09/11/08

Total Sulfide

Analysis Method : SM 4500-S2- D
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Analyzed	Result	Result Notes
10654001	K0808749-001	0.10	2	09/11/08	2.51	
10654002	K0808749-002	0.05	1	09/11/08	ND	
10654003	K0808749-003	0.05	1	09/11/08	ND	
10654004	K0808749-004	0.05	1	09/11/08	0.26	
10654005	K0808749-005	0.05	1	09/11/08	ND	
10654006	K0808749-006	0.05	1	09/11/08	ND	
10654007	K0808749-007	0.05	1	09/11/08	ND	
10654008	K0808749-008	0.05	1	09/11/08	ND	
10654009	K0808749-009	0.10	2	09/11/08	3.79	
10654010	K0808749-010	0.05	1	09/11/08	0.25	
10654011	K0808749-011	5.0	100	09/11/08	31.0	
10654012	K0808749-012	0.05	1	09/11/08	ND	
10654013	K0808749-013	0.05	1	09/11/08	ND	
10654014	K0808749-014	0.05	1	09/11/08	ND	
10654015	K0808749-015	0.05	1	09/11/08	ND	
10654016	K0808749-016	0.05	1	09/11/08	ND	
10654017	K0808749-017	0.05	1	09/11/08	0.51	
10654018	K0808749-018	1.0	20	09/11/08	5.38	
10654019	K0808749-019	0.05	1	09/11/08	ND	
10654020	K0808749-020	0.05	1	09/11/08	ND	
10654021	K0808749-021	0.05	1	09/11/08	ND	
10654022	K0808749-022	0.05	1	09/11/08	ND	
10654023	K0808749-023	0.05	1	09/11/08	0.21	
10654024	K0808749-024	1.0	20	09/11/08	4.35	
10654025	K0808749-025	0.05	1	09/11/08	ND	
10654026	K0808749-026	0.05	1	09/11/08	0.57	
10654027	K0808749-027	0.05	1	09/11/08	0.85	
10654028	K0808749-028	1.0	20	09/11/08	9.04	
10654034	K0808749-029	1.0	20	09/11/08	8.30	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : PORE WATER

Service Request : K0808749
Date Collected : 09/03-05/08
Date Received : 09/11/08

Total Sulfide

Analysis Method : SM 4500-S2- D
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Analyzed	Result	Result Notes
Method Blank	K0808749-MB	0.05	1	09/11/08	ND	
Method Blank	K0808749-MB	0.05	1	09/11/08	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : PORE WATER

Service Request : K0808749
Date Collected : 9/3/2008
Date Received : 9/11/2008
Date Prepared : NA
Date Analyzed : 09/11/08

Duplicate Summary
Inorganic Parameters

Sample Name : 10654001
Lab Code : K0808749-001DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Total Sulfide	SM 4500-S2- D	0.05	2.51	2.81	2.66	11	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : PORE WATER

Service Request : K0808749
Date Collected : 9/5/2008
Date Received : 9/11/2008
Date Prepared : NA
Date Analyzed : 09/11/08

Duplicate Summary
Inorganic Parameters

Sample Name : 10654020
Lab Code : K0808749-020DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Total Sulfide	SM 4500-S2- D	0.05	ND	ND	ND	-	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
LCS Matrix : PORE WATER

Service Request : K0808749
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 09/11/08

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K0808749-LCS K0808749-DLCS Basis : NA

Analyte	Units	Analysis Method	True Value		Result		LCS	DLCS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
			LCS	DLCS	LCS	DLCS					
Total Sulfide	mg/L	SM 4500-S2-D	1.74	1.74	1.77	1.74	102	100	85-115	2	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
LCS Matrix : PORE WATER

Service Request : K0808749
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 09/11/08

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K0808749-LCS K0808749-DLCS Basis : NA

Analyte	Units	Analysis Method	True Value		Result		LCS	DLCS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
			LCS	DLCS	LCS	DLCS					
Total Sulfide	mg/L	SM 4500-S2-D	1.74	1.74	1.69	1.65	97	95	85-115	2	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project : NA

Service Request : K0808749
Date Collected : NA
Date Received : NA

Total Sulfide
SM 4500-S2- D
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	9/11/2008	1.74	1.74	100
CCV2 Result	9/11/2008	1.74	1.74	100
CCV3 Result	9/11/2008	1.74	1.72	99
CCV4 Result	9/11/2008	1.74	1.72	99
CCV5 Result	9/11/2008	1.74	1.72	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project : NA

Service Request : K0808749
Date Collected : NA
Date Received : NA

Total Sulfide
SM 4500-S2- D
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	9/11/2008	0.05	ND
CCB2 Result	9/11/2008	0.05	ND
CCB3 Result	9/11/2008	0.05	ND
CCB4 Result	9/11/2008	0.05	ND
CCB5 Result	9/11/2008	0.05	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : PORE WATER

Service Request : K0808749
Date Collected : 09/03-05/08
Date Received : 09/11/08

Ammonia as Nitrogen

Analysis Method : 350.1
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Analyzed	Result	Result Notes
10654001	K0808749-001	0.25	5	09/15/08	6.74	
10654002	K0808749-002	0.25	5	09/15/08	4.18	
10654003	K0808749-003	0.25	5	09/15/08	2.81	
10654004	K0808749-004	0.25	5	09/15/08	14.1	
10654005	K0808749-005	0.25	5	09/15/08	3.75	
10654006	K0808749-006	0.25	5	09/15/08	2.83	
10654007	K0808749-007	0.25	5	09/15/08	5.90	
10654008	K0808749-008	0.25	5	09/15/08	14.3	
10654009	K0808749-009	0.25	5	09/15/08	2.68	
10654010	K0808749-010	0.25	5	09/15/08	1.54	
10654011	K0808749-011	0.25	5	09/15/08	6.43	
10654012	K0808749-012	0.25	5	09/15/08	4.93	
10654013	K0808749-013	0.25	5	09/15/08	4.88	
10654014	K0808749-014	0.05	1	09/15/08	2.19	
10654015	K0808749-015	0.25	5	09/15/08	6.28	
10654016	K0808749-016	0.05	1	09/15/08	1.88	
10654017	K0808749-017	0.05	1	09/15/08	1.66	
10654018	K0808749-018	0.25	5	09/15/08	5.66	
10654019	K0808749-019	0.25	5	09/15/08	3.68	
10654020	K0808749-020	0.05	1	09/15/08	1.45	
10654021	K0808749-021	0.25	5	09/15/08	3.17	
10654022	K0808749-022	0.25	5	09/15/08	3.79	
10654023	K0808749-023	0.25	5	09/15/08	2.54	
10654024	K0808749-024	0.05	1	09/15/08	1.28	
10654025	K0808749-025	0.05	1	09/15/08	1.60	
10654026	K0808749-026	0.05	1	09/15/08	1.61	
10654027	K0808749-027	0.05	1	09/15/08	1.11	
10654028	K0808749-028	0.05	1	09/15/08	2.04	
10654034	K0808749-029	0.05	1	09/15/08	2.29	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : WATER

Service Request : K0808749
Date Collected : 09/03-05/08
Date Received : 09/11/08

Ammonia as Nitrogen

Analysis Method : 350.1
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Analyzed	Result	Result Notes
Method Blank	K0808749-MB	0.05	1	09/15/08	ND	
Method Blank	K0808749-MB	0.05	1	09/15/08	ND	
Method Blank	K0808749-MB	0.05	1	09/15/08	ND	
Method Blank	K0808749-MB	0.05	1	09/15/08	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : WATER

Service Request : K0808749
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 09/15/08

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K0808753-022DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	350.1	0.05	ND	ND	ND	-	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : WATER

Service Request : K0808749
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 09/15/08

Matrix Spike Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K0808753-022MS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	350.1	0.05	2.00	ND	1.90	94	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : WATER

Service Request : K0808749
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 09/15/08

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K0808749-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	NONE	350.1	8.38	8.31	99	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project : NA

Service Request : K0808749
Date Collected : NA
Date Received : NA

Ammonia as Nitrogen
350.1
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	9/15/2008	2.00	1.99	100
CCV2 Result	9/15/2008	2.00	1.99	100
CCV3 Result	9/15/2008	2.00	1.99	100
CCV4 Result	9/15/2008	2.00	1.99	100
CCV5 Result	9/15/2008	2.00	1.98	99
CCV6 Result	9/15/2008	2.00	1.98	99
CCV7 Result	9/15/2008	2.00	1.98	99
CCV8 Result	9/15/2008	2.00	1.98	99
CCV9 Result	9/15/2008	2.00	1.97	99
CCV10 Result	9/15/2008	2.00	1.98	99
CCV11 Result	9/15/2008	2.00	1.98	99
CCV12 Result	9/15/2008	2.00	1.97	99
CCV13 Result	9/15/2008	2.00	1.98	99
CCV14 Result	9/15/2008	2.00	1.98	99
CCV15 Result	9/15/2008	2.00	1.98	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : AMEC Geomatrix, Inc.
Project : NA

Service Request : K0808749
Date Collected : NA
Date Received : NA

Ammonia as Nitrogen
350.1
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	9/15/2008	0.05	ND
CCB2 Result	9/15/2008	0.05	ND
CCB3 Result	9/15/2008	0.05	ND
CCB4 Result	9/15/2008	0.05	ND
CCB5 Result	9/15/2008	0.05	ND
CCB6 Result	9/15/2008	0.05	ND
CCB7 Result	9/15/2008	0.05	ND
CCB8 Result	9/15/2008	0.05	ND
CCB9 Result	9/15/2008	0.05	ND
CCB10 Result	9/15/2008	0.05	ND
CCB11 Result	9/15/2008	0.05	ND
CCB12 Result	9/15/2008	0.05	ND
CCB13 Result	9/15/2008	0.05	ND
CCB14 Result	9/15/2008	0.05	ND
CCB15 Result	9/15/2008	0.05	ND



Memo

To: Kathleen Goodman
From: Crystal Neurby
Tel:
Fax:
Date: August 3, 2009

Project: 10654
cc: Project File

**Subject: Former Custom Plywood Plant, Sediment Sampling
Summary Data Quality Review – SDGs NP12, NP13, and OW90**

This memorandum presents a summary data quality review for analyses of seven sediment samples collected between September 3 and 8, 2008. The samples were submitted to Analytical Resources Inc. (ARI), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Tukwila, Washington. The samples were analyzed for the following Marine Sediment Management (SMS) analyses:

- Mercury by EPA Method 7471A;
- Metals (arsenic, cadmium, chromium, copper, lead, silver, zinc) by EPA Method 6010B;
- Polychlorinated Biphenyls (PCBs) by PSDDA PCB analysis (equivalent to EPA 8082);
- Semivolatile Organic Compounds (SVOCs) by PSDDA SVOC analysis (equivalent to EPA 8270).

The samples associated with these sample delivery group (SDG) and a summary of the data quality review are presented in Table 1, attached.

The samples were frozen upon receipt at ARI and were stored frozen until approximately 24 hours prior to extraction.

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Final Quality Assurance Project Plan (QAPP), Attachment A2 of Appendix A of the Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, (AMEC, 2008) as well as the Puget Sound Protocol (PSP) for Quality Assurance and Quality Control (QAQC) (PSP, 1997).

Hold times, method blanks, standard reference materials (SRM) results, matrix spike/matrix spike duplicate (MS/MSD) results, laboratory control samples (LCS), surrogate recoveries, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions

and use of qualifying flags outlined in EPA documents (EPA, 2008) and the PSP QAQC document.

Samples were analyzed for SMS analyses by the methods identified in the introduction to this report and were evaluated for the following criteria.

1. Holding Times – Acceptable

Samples were received frozen and were kept frozen at the laboratory until the samples were extracted and analyzed. The samples were extracted within the 1 year holding time.

2. Blanks – Acceptable

3. SRM – Acceptable except as noted:

PCBs by PSDDA Method: The recovery for Aroclor 1254 was 51% of the spiked amount. Sample results are not qualified based on SRM samples.

4. MS/MSD – Acceptable except as noted:

PCBs by PSDDA Method: The MS recovery for Aroclor 1260 was 264%. The associated MSD recovery was 105% and the MS/MSD RPD was 85.9%. The samples were all non-detect for PCBs and the associated LCS was within the control limits; therefore, sample results were not qualified.

SVOCs by PSDDA Method: the MS/MSD RPD for benzoic acid was 48.1%. The associated MS/MSD recoveries were within the control limits, as well as the associated LCS; therefore sample results were not qualified.

The laboratory spiked sample 10654001 for MS/MSD analysis during the mercury analysis. The results from this sample are reported to calculate the recovery of the MS/MSD and to demonstrate that a project specific sample was used; however, the results are not reported.

5. Surrogates – Acceptable

6. Reporting Limits – Acceptable

OVERALL ASSESSMENT OF DATA

The ARI SDGs NP12, NP13, and OW90 are 100% complete. The data usability is based on EPA's guidance documents and the QAPP. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

Memo
August 3, 2009
Page 3 of 4

REFERENCES

- EPA (U.S. Environmental Protection Agency), 1995, Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), Third Edition, September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995; Final Update III, December 1996; Final Update IIIA, April 1998.
- EPA, 2008, U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-08-001, June.
- EPA, 2004, U.S. EPA Contract Laboratory Program National Functional Guidelines For Inorganic Data Review: EPA 540-R-04-004, October.
- AMEC Geomatrix, 2008. Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, September.
- Puget Sound Protocol: Recommended Quality Assurance Quality Control Guidelines for the Collection of Environmental Data in Puget Sound, April 1997.
- Recommended Protocols for Measuring Conventional Sediment Variables in Puget Sound. Puget Sound Water Quality Authority, March 1986.
- Recommended Guidelines For Measuring Organic Compounds In Puget Sound Water, Sediment And Tissue Samples, Puget Sound Water Quality Authority, April 1997.
- Recommended Guidelines For Measuring Metals In Puget Sound Marine Water, Sediment And Tissue Samples, Puget Sound Water Quality Authority, April 1997.



Sample ID	Laboratory Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
10654001	NP12A	none			
10654007	NP12G, OW90A	none			
10654008	NP12H, OW90B	none			
10654009	NP12I, OW90C	none			
10654011	NP12K, OW90D	none			
10654018	NP12D, OW90E	none			
10654028	NP12N, OW90F	none			



Analytical Resources, Incorporated
Analytical Chemists and Consultants

8 July 2009

Rob Gilmour
AMEC, Inc.
3500 188th Street SW, Suite 600
Lynnwood, WA 98037-4763

RE: Project: Former Custom Plywood Site, 10654.001
ARI Job Nos.: NP12, NP13

Dear Rob:

Please find enclosed the final data package for the samples from the project referenced above. Analytical Resources, Inc. received thirty-four sediment samples in good condition on September 12, 2008. There were no discrepancies in the paperwork.

Select samples were analyzed for total mercury as requested.

Problems associated with these analyses are discussed in the case narrative.

A copy of this package will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Mark Harris".

Mark Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: files NP12, NP13

MDH/mdh

Chain of Custody Documentation

**Prepared
for**

GEOMATRIX, INC.

Project: Former Custom Plywood Site, 10654.001

ARI Job Nos.: NP12 and NP13

**Prepared
By**

Analytical Resources, Inc.

NP12 : 00001

FROZEN

Place COC Form Number Label Here
 or write in seq. number below

Requested Analysis										
SMS List of COCs	Mercury (digest and hold)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive		

Checked by: RG

AMEC Geomatrix

10654001

COC Form

Initials: RG

Date: 9/3/08 Time: 1128

Date:											
Time:	1	1									3
											Number of containers
											5

AMEC Geomatrix

10654002

COC Form

Initials: RG

Date: 9/3/08 Time: 1239

Date:											
Time:	1	1									3
											Number of containers
											5

AMEC Geomatrix

10654003

COC Form

Initials: RG

Date: 9/3/08 Time: 1321

Date:											
Time:	1	1									3
											Number of containers
											5

AMEC Geomatrix

10654004

COC Form

Initials: GSM

Date: 9-3-08 Time: 1414

Date:											
Time:	1	1									3
											Number of containers
											5

AMEC Geomatrix

10654005

COC Form

Initials: GSM

Date: 9-3-08 Time: 1617

Date:											
Time:	1	1									3
											Number of containers
											5

AMEC Geomatrix

10654006

COC Form

Initials: GSM

Date: 9-3-08 Time: 1709

Date:											
Time:	1	1									3
											Number of containers
											5

AMEC Geomatrix

10654007

COC Form

Initials: GSM

Date: 9-3-08 Time: 1759

Date:											
Time:	1	1									3
											Number of containers
											5

Laboratory/Analysis Comments
 Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023
Mercury (digest and hold)
Archive SMS COCs and archives
until notified.

Relinquished By	Transported By	Received By
Name: <u>Kate Wolf</u>		Name: <u>Bob Engle</u>
Date: <u>9/12/08</u>		Date: <u>9/12/08</u>
Time: <u>10:45</u>		Time: <u>10:50</u>
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site

Attn: Mark Harris

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis							
SMS List of COCs	Mercury (digest and hold)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)

Checked by: R.H.

AMEC Geomatrix
 10654008
 COC Form
 Initials: GM
 Date: 9-4-08 Time: 820

AMEC Geomatrix
 10654009
 COC Form
 Initials: GM
 Date: 9-4-08 Time: 937

AMEC Geomatrix
 10654010
 COC Form
 Initials: GM
 Date: 9-4-08 Time: 1019

AMEC Geomatrix
 10654011
 COC Form
 Initials: GM
 Date: 9-4-08 Time: 1059

AMEC Geomatrix
 10654012
 COC Form
 Initials: GM
 Date: 9-4-08 Time: 1139

AMEC Geomatrix
 10654013
 COC Form
 Initials: GM
 Date: 9-4-08 Time: 1204

AMEC Geomatrix
 10654014
 COC Form
 Initials: GM
 Date: 9-4-08 Time: 1341

Date:	SMS List of COCs	Mercury (digest and hold)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive	Number of containers
	1	1							3	5
	1	1							3	5
	1	1							3	5
	1	1							3	5
	1	1							3	5
	1	1							3	5
	1	1							3	5

Laboratory/Analysis Comments

Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

*Mercury (digest and hold).
 Hold and archive SMS COCs
 and archives until notified*

Relinquished By	Transported By	Received By
Name: <u>Kathie Wolff</u> Date: <u>9/12/08</u> Time: <u>10:45</u>		Name: <u>Rob Gilmour</u> Date: <u>9/12/08</u> Time: <u>10:50</u>
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site
 Project manager Mark Harris



Cooler Receipt Form

ARI Client: AMEC/GEOMATRIX
COC No: _____
Assigned ARI Job No: NP12

Project Name: FRMR. CUSTOM PLYWOOD SITE
Delivered by: HAND
Tracking No: _____

Preliminary Examination Phase:

- Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
- Were custody papers included with the cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.) YES NO
- Record cooler temperature (recommended 2.0-6.0 °C for chemistry) 6 COOLERS - ALL SAMPLES °C FROZEN

Cooler Accepted by: BC Date: 9/12/07 Time: 1050

Complete custody forms and attach all shipping documents

Log-In Phase:

- Was a temperature blank included in the cooler? YES NO
- What kind of packing material was used? None
- Was sufficient ice used (if appropriate)? YES NO
- Were all bottles sealed in individual plastic bags? YES NO
- Did all bottle arrive in good condition (unbroken)? YES NO
- Were all bottle labels complete and legible? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were all bottles used correct for the requested analyses? YES NO
- Do any of the analyses (bottles) require preservation? (attach preservation checklist) YES NO
- Were all VOC vials free of air bubbles? NA YES NO
- Was sufficient amount of sample sent in each bottle? YES NO

Samples Logged by: J Date: 9/16/08 Time: 914

**** Notify Project Manager of discrepancies or concerns ****

Explain discrepancies or negative responses:

By: _____

Date: _____

NP13

CHAIN OF CUSTODY

ARI

Place COC Form Number Label Here
 or write in seq. number below.

Requested Analysis									
SMS List of COCs	Mercury (digest and hold)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive	
	1	1						3	Number of containers
									5
	1	1						3	Number of containers
									5
	1	1						3	Number of containers
									5
	1	1						3	Number of containers
									5
	1	1						3	Number of containers
									5
	1	1						3	Number of containers
									5
	1	1						3	Number of containers
									5

Checked by: RHG

AMEC Geomatrix
 10654015
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1419

AMEC Geomatrix
 10654016
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1456

AMEC Geomatrix
 10654017
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1530

AMEC Geomatrix
 10654018
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1635

AMEC Geomatrix
 10654019
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1707

AMEC Geomatrix
 10654020
 COC Form
 Initials: GSM
 Date: 9-5-08 Time: 831

AMEC Geomatrix
 10654021
 COC Form
 Initials: GSM
 Date: 9-5-08 Time: 923

Laboratory/Analysis Comments

Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

*Mercury (digest and hold)
 Hold and archive SMS COCs and
 archives until notified.*

Relinquished By	Transported By	Received By
Name: <u>Kate Wolff</u>		Name: <u>Bob Carter</u>
Date: <u>9/12/08</u>		Date: <u>9/12/08 1050</u>
Time: <u>10:45</u>		Time:
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site *Project Manager Mark Harris*

NP13

CHAIN OF CUSTODY

AR1

Place COC Form Number Label Here
 or write in seq. number below

Requested Analysis										
SMS List of COCs	Mercury (digest and hold)	TVS/TOC/TSS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive		

Checked by: R44

AMEC Geomatrix
 10654022
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1015

AMEC Geomatrix
 10654023
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1057

AMEC Geomatrix
 10654024
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1032

AMEC Geomatrix
 10654025
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1308

AMEC Geomatrix
 10654026
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1342

AMEC Geomatrix
 10654027
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1433

AMEC Geomatrix
 10654028
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1520

Date:											
Time:	1	1									3
											Number of containers
											5
Date:											
Time:	1	1									3
											Number of containers
											5
Date:											
Time:	1	1									3
											Number of containers
											5
Date:											
Time:	1	1									3
											Number of containers
											5
Date:											
Time:	1	1									3
											Number of containers
											5
Date:											
Time:	1	1									3
											Number of containers
											5

Laboratory/Analysis Comments

Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

*Mercury (digest and hold).
 Hold and archive SMS COCs
 and archives until notified*

Former Custom Plywood Site

Relinquished By	Transported By	Received By
Name: <u>Kate Welf</u>		Name: <u>Rob Cryles</u>
Date: <u>9/12/08</u>		Date: <u>Yulet 1050</u>
Time: <u>10:45</u>		Time:
Name:		Name:
Date:		Date:
Time:		Time:

Project manager Mark Harris

NP13

CHAIN OF CUSTODY

AR1

Place COC Form Number Label Here
 or write in seq. number below

Requested Analysis									
SMS List of COCs	Mercury (digest and hold)	TVS/TOC/TSS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive	

Checked by: PR46

AMEC Geomatrix
 10654029
 COC Form
 Initials: GSN
 Date: 9-8-08 Time: 0827

Date:										Number of containers 3
Time:	1	1							1	

AMEC Geomatrix
 10654030
 COC Form
 Initials: GSN
 Date: 9-8-08 Time: 904

Date:										Number of containers 4
Time:	1	1							2	

AMEC Geomatrix
 10654031
 COC Form
 Initials: GSN
 Date: 9-8-08 Time: 903

Date:										Number of containers 4
Time:	1	1							2	

AMEC Geomatrix
 10654032
 COC Form
 Initials: GSN
 Date: 9-8-08 Time: 946

Date:										Number of containers 4
Time:	1	1							2	

AMEC Geomatrix
 10654033
 COC Form
 Initials: GSN
 Date: 9-8-08 Time: 1024

Date:										Number of containers 4
Time:	1	1							2	

AMEC Geomatrix
 10654034
 COC Form
 Initials: GSN
 Date: 9-8-08 Time: 9122

Date:										Number of containers 5
Time:	1	1							3	

Place Sample ID Label Here
 or Write ID Number Here

Date:										Number of containers
Time:										

Laboratory/Analysis Comments
 Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gillmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023
 Mercury (digest and hold)
 Archive SMS COCs and archives
 until notified

Relinquished By	Transported By	Received By
Name: <u>Lathe Wiff</u>		Name: <u>Dig Conglas</u>
Date: <u>9/12/08</u>		Date: <u>9/12/08 1050</u>
Time: <u>10:45</u>		Time: <u>10:50</u>
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site
 Proj Manager Mark Harris



Cooler Receipt Form

ARI Client: AMEC/GEOMATRIX
COC No: _____
Assigned ARI Job No: NP13

Project Name: FRMR. CUSTOM PLYWOOD SITE
Delivered by: HAND
Tracking No: _____

Preliminary Examination Phase:

- Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
- Were custody papers included with the cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.) YES NO
- Record cooler temperature (recommended 2.0-6.0 °C for chemistry) 6 COOLERS - ALL SAMPLES °C FROZEN

Cooler Accepted by: BC Date: 9/12/07 Time: 1050

Complete custody forms and attach all shipping documents

Log-In Phase:

- Was a temperature blank included in the cooler? YES NO
- What kind of packing material was used? None
- Was sufficient ice used (if appropriate)? YES NO
- Were all bottles sealed in individual plastic bags? YES NO
- Did all bottle arrive in good condition (unbroken)? YES NO
- Were all bottle labels complete and legible? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were all bottles used correct for the requested analyses? YES NO
- Do any of the analyses (bottles) require preservation? (attach preservation checklist) YES NO
- Were all VOC vials free of air bubbles? NA YES NO
- Was sufficient amount of sample sent in each bottle? YES NO

Samples Logged by: JL Date: 9/16/08 Time: 947

**** Notify Project Manager of discrepancies or concerns ****

Explain discrepancies or negative responses:

AMEC GMX 10654034 misses one 8oz jar

By: JL Date: 9/16

Case Narrative

**Prepared
for**

GEOMATRIX, INC.

Project: Former Custom Plywood Site, 10654.001

ARI Job Nos.: NP12 and NP13

**Prepared
By**

Analytical Resources, Inc.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Case Narrative

Client: AMEC, Inc.

Project: Former Custom Plywood Site, 10654.001

Matrix: Sediment

ARI Job Nos: NP12, NP13

Date: July 8, 2009

Mercury Analyses

These analyses proceeded without incident of note.

Data Summary Package

**Prepared
for**

GEOMATRIX, INC.

Project: Former Custom Plywood Site, 10654.001

ARI Job Nos.: NP12 and NP13

**Prepared
By**

Analytical Resources, Inc.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Case Narrative

Client: AMEC, Inc.

Project: Former Custom Plywood Site, 10654.001

Matrix: Sediment

ARI Job Nos: NP12, NP13

Date: July 8, 2009


Mercury Analyses

These analyses proceeded without incident of note.

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: 10654001
SAMPLE

Lab Sample ID: NP12A
LIMS ID: 08-23934
Matrix: Sediment
Data Release Authorized: 
Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.
Project: FORMER CUSTOM PLYWOOD SITE
10654.001
Date Sampled: 09/03/08
Date Received: 09/12/08

Percent Total Solids: 42.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.1	0.1	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: 10654001
DUPLICATE

Lab Sample ID: NP12A

LIMS ID: 08-23934

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Mercury	7471A	0.1 U	0.1	0.0%	+/- 0.1	L

Reported in mg/kg-dry

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654001

MATRIX SPIKE

Lab Sample ID: NP12A

LIMS ID: 08-23934

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Mercury	7471A	0.1 U	1.3	1.05	124%	

Reported in mg/kg-dry

N-Control Limit Not Met


H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: 10654007
SAMPLE

Lab Sample ID: NP12G
LIMS ID: 08-23940
Matrix: Sediment
Data Release Authorized: 
Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.
Project: FORMER CUSTOM PLYWOOD SITE
10654.001
Date Sampled: 09/03/08
Date Received: 09/12/08

Percent Total Solids: 40.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.1	0.1	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654008

SAMPLE

Lab Sample ID: NP12H

LIMS ID: 08-23941

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 41.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.1	0.1	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

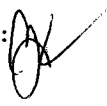
Sample ID: 10654009

SAMPLE

Lab Sample ID: NP12I

LIMS ID: 08-23942

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 43.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.08	0.11	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654011

SAMPLE

Lab Sample ID: NP12K

LIMS ID: 08-23944

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 50.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.08	0.08	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: NP12LCS

LIMS ID: 08-23935

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Mercury	7471A	1.07	1.00	107%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: NP12MB


QC Report No: NP12-Geomatrix, Inc.

LIMS ID: 08-23935

Project: FORMER CUSTOM PLYWOOD SITE

Matrix: Sediment

10654.001

Data Release Authorized: 

Date Sampled: NA

Reported: 10/01/08

Date Received: NA

Percent Total Solids: NA


Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.05	0.05	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
 Page 1 of 1

Sample ID: 10654018
SAMPLE

Lab Sample ID: NP13D
 LIMS ID: 08-23951
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 10/01/08

QC Report No: NP13-Geomatrix, Inc.
 Project: FORMER CUSTOM PLYWOOD SITE
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Percent Total Solids: 47.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.08	0.10	

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654028

SAMPLE

Lab Sample ID: NP13N

LIMS ID: 08-23961

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP13-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/05/08

Date Received: 09/12/08

Percent Total Solids: 68.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.06	0.06	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: NP13LCS

LIMS ID: 08-23949

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP13-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Mercury	7471A	1.06	1.00	106%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: NP13MB

LIMS ID: 08-23949

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP13-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE
10654.001

Date Sampled: NA

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.05	0.05	U

U-Analyte undetected at given RL
RL-Reporting Limit

Laboratory Data Package

**Prepared
for**

GEOMATRIX, INC.

Project: Former Custom Plywood Site, 10654.001

ARI Job Nos.: NP12 and NP13

**Prepared
By**

Analytical Resources, Inc.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample

- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

**Metals Analysis
QC Summary Data**

**Prepared
for**

GEOMATRIX, INC.

Project: Former Custom Plywood Site, 10654.001

ARI Job Nos.: NP12 and NP13

**Prepared
By**

Analytical Resources, Inc.

NP12 : 00029

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOO

SDG: NP12

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
10654001	NP12A	08-23934	
10654001D	NP12ADUP	08-23934	
10654001S	NP12ASPK	08-23934	
10654002	NP12B	08-23935	
PBS	NP12MB1	08-23935	
LCSS	NP12MB1SPK	08-23935	
10654003	NP12C	08-23936	
10654004	NP12D	08-23937	
10654005	NP12E	08-23938	
10654006	NP12F	08-23939	
10654007	NP12G	08-23940	
10654008	NP12H	08-23941	
10654009	NP12I	08-23942	
10654010	NP12J	08-23943	
10654011	NP12K	08-23944	
10654012	NP12L	08-23945	
10654013	NP12M	08-23946	
10654014	NP12N	08-23947	

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: 

Name: Jay Kuhn

Date: 10/2/08

Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: 10654001
DUPLICATE

Lab Sample ID: NP12A

LIMS ID: 08-23934

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Mercury	7471A	0.1 U	0.1	0.0%	+/- 0.1	L

Reported in mg/kg-dry

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: 10654001

MATRIX SPIKE

Lab Sample ID: NP12A


QC Report No: NP12-Geomatrix, Inc.

LIMS ID: 08-23934

Project: FORMER CUSTOM PLYWOOD SITE

Matrix: Sediment

10654.001

Data Release Authorized: 

Date Sampled: 09/03/08

Reported: 10/01/08

Date Received: 09/12/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Mercury	7471A	0.1 U	1.3	1.05	124%	

Reported in mg/kg-dry

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: NP12LCS

LIMS ID: 08-23935

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Mercury	7471A	1.07	1.00	107%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Sample ID: METHOD BLANK

Page 1 of 1

Lab Sample ID: NP12MB


QC Report No: NP12-Geomatrix, Inc.

LIMS ID: 08-23935

Project: FORMER CUSTOM PLYWOOD SITE

Matrix: Sediment

10654.001

Data Release Authorized: 

Date Sampled: NA

Reported: 10/01/08

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.05	0.05	U

U-Analyte undetected at given RL

RL-Reporting Limit

Calibration Verification



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

UNITS: ug/L

SDG: NP12

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Mercury	HG	CVA	HG100101	8.0	8.27	103.4	4.0	4.05	101.3	4.30	107.5	4.16	104.0	4.16	104.0	4.16	104.0

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

SDG: NP12

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Mercury	HG	CVA	HG100101	4.0	4.18	104.5										

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

SDG: NP12



UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Mercury	HG	CVA	HG100101	0.1		0.12	120.0										

Control Limits: no control limits have been established by the EPA at this time.

NP12: 00007

Calibration Blanks

CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

SDG: NP12



UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	CCB1	CCB2	CCB3	CCB4	CCB5	C
Mercury	HG	CVA	HG100101	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	U

NP12: 00038

Calibration Blanks

CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOO

SDG: NP12



UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	C
Mercury	HG	CVA	HG100101	0.2	0.1	0.1						

NP12 : 00039

IDLs and ICP Linear Ranges



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOO

SDG: NP12

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENGTH (nm)	GFA BACK- GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Mercury	HG	CVA	CETAC MERCURY	253.70		0.2	0.1	3/1/2008		

Preparation Log



CLIENT: Geomatrix, Inc.

ANALYSIS METHOD: CVA

PROJECT: FORMER CUSTOM PLYWOO

ARI PREP CODE: SMM

SDG: NP12

PREPDATE: 9/30/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
10654001	NP12A	0.225	0.0	100.0
10654001D	NP12ADUP	0.228	0.0	100.0
10654001S	NP12ASPK	0.223	0.0	100.0
10654002	NP12B	0.253	0.0	100.0
10654003	NP12C	0.270	0.0	100.0
10654004	NP12D	0.299	0.0	100.0
10654005	NP12E	0.283	0.0	100.0
10654006	NP12F	0.279	0.0	100.0
10654007	NP12G	0.254	0.0	100.0
10654008	NP12H	0.235	0.0	100.0
10654009	NP12I	0.279	0.0	100.0
10654010	NP12J	0.247	0.0	100.0
10654011	NP12K	0.257	0.0	100.0
10654012	NP12L	0.270	0.0	100.0
10654013	NP12M	0.248	0.0	100.0
PBS	NP12MB1	0.200	0.0	100.0
LCSW	NP12MB1SPK	0.200	0.0	100.0
10654014	NP12N	0.237	0.0	100.0

Analysis Run Log

CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

SDG: NP12

INSTRUMENT ID: CETAC MERCURY

RUNID: HG100101 METHOD: CVA

START DATE: 10/1/2008

END DATE: 10/1/2008



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN		
S0	S0	1.00	09033														X																		
S0.1	S0.1	1.00	09051														X																		
S0.5	S0.5	1.00	09064														X																		
S1	S1	1.00	09082														X																		
S2	S2	1.00	09100														X																		
S5	S5	1.00	09114														X																		
S10	S10	1.00	09131														X																		
ICV	AICV	1.00	09165														X																		
ICB	ICB	1.00	09182														X																		
CCV	ACCV1	1.00	09200														X																		
CCB	CCB1	1.00	09214														X																		
CRA	CRA	1.00	09232														X																		
ZZZZZZ	NP13ME1	1.00	09245														X																		
ZZZZZZ	NP13ME1SPK	1.00	09263														X																		
ZZZZZZ	NP13A	1.00	09281														X																		
ZZZZZZ	NP13ADUP	1.00	09294														X																		
ZZZZZZ	NP13ASPK	1.00	09312														X																		
ZZZZZZ	NP13B	1.00	09330														X																		
ZZZZZZ	NP13C	1.00	09343														X																		
ZZZZZZ	NP13D	1.00	09361														X																		
ZZZZZZ	NP13E	1.00	09375														X																		
CCV	ACCV2	1.00	09393														X																		
CCB	CCB2	1.00	09411														X																		
ZZZZZZ	NP13F	1.00	09425														X																		
ZZZZZZ	NP13G	1.00	09442														X																		
ZZZZZZ	NP13H	1.00	09460														X																		
ZZZZZZ	NP13I	1.00	09474														X																		
ZZZZZZ	NP13J	1.00	09491														X																		
ZZZZZZ	NP13K	1.00	09505														X																		
ZZZZZZ	NP13L	1.00	09523														X																		
ZZZZZZ	NP13M	1.00	09540														X																		
ZZZZZZ	NP13N	1.00	09554														X																		
ZZZZZZ	NP13O	1.00	09572														X																		
CCV	ACCV3	1.00	09590														X																		
CCB	CCB3	1.00	10004														X																		

NP12: 00042

Analysis Run Log



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

INSTRUMENT ID: CETAC MERCURY

START DATE: 10/1/2008

SDG: NP12

RUNID: HG100101

METHOD: CVA

END DATE: 10/1/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN			
ZZZZZZ	NP13P	1.00	10022																																	
ZZZZZZ	NP13Q	1.00	10040																																	
ZZZZZZ	NP13R	1.00	10053																																	
ZZZZZZ	NP13S	1.00	10071																																	
ZZZZZZ	NP13T	1.00	10084																																	
PBW	NP12MB1	1.00	10102																																	
LCSW	NP12MB1SPK	1.00	10120																																	
10654001	NP12A	1.00	10133																																	
10654001D	NP12ADUP	1.00	10151																																	
10654001S	NP12ASPK	1.00	10165																																	
CCV	ACCV4	1.00	10183																																	
CCB	CCB4	1.00	10201																																	
10654002	NP12B	1.00	10215																																	
10654003	NP12C	1.00	10233																																	
10654004	NP12D	1.00	10251																																	
10654005	NP12E	1.00	10264																																	
10654006	NP12F	1.00	10282																																	
10654007	NP12G	1.00	10300																																	
10654008	NP12H	1.00	10314																																	
10654009	NP12I	1.00	10331																																	
10654010	NP12J	1.00	10345																																	
10654011	NP12K	1.00	10363																																	
CCV	ACCV5	1.00	10381																																	
CCB	CCB5	1.00	10395																																	
10654012	NP12L	1.00	10412																																	
10654013	NP12M	1.00	10430																																	
10654014	NP12N	1.00	10444																																	
ZZZZZZ	NQ32MB1	1.00	10462																																	
ZZZZZZ	NQ32MB1SPK	1.00	10480																																	
ZZZZZZ	NQ32C	1.00	10494																																	
ZZZZZZ	NQ32D	1.00	10512																																	
CCV	ACCV6	1.00	10525																																	
CCB	CCB6	1.00	10543																																	

10/1/2008 10:00:00

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOO

SDG: NP13

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
10654015	NP13A	08-23948	
10654015D	NP13ADUP	08-23948	
10654015S	NP13ASPK	08-23948	
10654016	NP13B	08-23949	
PBS	NP13MB1	08-23949	
LCSS	NP13MB1SPK	08-23949	
10654017	NP13C	08-23950	
10654018	NP13D	08-23951	
10654019	NP13E	08-23952	
10654020	NP13F	08-23953	
10654021	NP13G	08-23954	
10654022	NP13H	08-23955	
10654023	NP13I	08-23956	
10654024	NP13J	08-23957	
10654025	NP13K	08-23958	
10654026	NP13L	08-23959	
10654027	NP13M	08-23960	
10654028	NP13N	08-23961	
10654029	NP13O	08-23962	
10654030	NP13P	08-23963	
10654031	NP13Q	08-23964	

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: 

Name: Jay Kuhn

Date: 10/2/08

Title: Inorganics Director

COVER PAGE

NP12: 00044

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOO

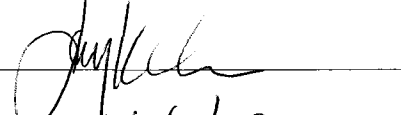
SDG: NP13

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
10654032	NP13R	08-23965	
10654033	NP13S	08-23966	
10654034	NP13T	08-23967	

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature:  Name: Jay Kuhn
Date: 10/2/09 Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: NP13LCS

LIMS ID: 08-23949

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP13-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Mercury	7471A	1.06	1.00	106%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: NP13MB


QC Report No: NP13-Geomatrix, Inc.

LIMS ID: 08-23949

Project: FORMER CUSTOM PLYWOOD SITE

Matrix: Sediment

10654.001

Data Release Authorized: 

Date Sampled: NA

Reported: 10/01/08

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.05	0.05	U

U-Analyte undetected at given RL

RL-Reporting Limit

Calibration Verification



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

SDG: NP13

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Mercury	HG	CVA	HG100101	8.0	8.27	103.4	4.0	4.05	101.3	4.30	107.5	4.16	104.0	4.16	104.0		

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

SDG: NP13



UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Mercury	HG	CVA	HG100101	0.1		0.12	120.0										

07000 040

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOO

SDG: NP13



UNITS: ug/L

ANALYTE	EL METH	RUN	CRDL	IDL	ICB	CCB1	CCB2	CCB3	CCB4	CCB5	C
Mercury	HG	CVA	HG100101	0.2	0.1	0.1	0.1	0.1	0.1	0.1	U

NP12 : 00050

IDLs and ICP Linear Ranges



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOO

SDG: NP13

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENGTH (nm)	GFA BACK- GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Mercury	HG	CVA	CETAC MERCURY	253.70		0.2	0.1	3/1/2008		

Preparation Log



CLIENT: Geomatrix, Inc.

ANALYSIS METHOD: CVA

PROJECT: FORMER CUSTOM PLYWOO

ARI PREP CODE: SMM

SDG: NP13

PREPDATE: 9/30/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
10654015	NP13A	0.269	0.0	100.0
10654015D	NP13ADUP	0.270	0.0	100.0
10654015S	NP13ASPK	0.274	0.0	100.0
10654016	NP13B	0.290	0.0	100.0
10654017	NP13C	0.226	0.0	100.0
10654018	NP13D	0.251	0.0	100.0
10654019	NP13E	0.219	0.0	100.0
10654020	NP13F	0.265	0.0	100.0
10654021	NP13G	0.283	0.0	100.0
10654022	NP13H	0.252	0.0	100.0
10654023	NP13I	0.264	0.0	100.0
10654024	NP13J	0.231	0.0	100.0
10654025	NP13K	0.292	0.0	100.0
10654026	NP13L	0.223	0.0	100.0
10654027	NP13M	0.210	0.0	100.0
PBS	NP13MB1	0.200	0.0	100.0
LCSW	NP13MB1SPK	0.200	0.0	100.0
10654028	NP13N	0.230	0.0	100.0
10654029	NP13O	0.249	0.0	100.0
10654030	NP13P	0.282	0.0	100.0
10654031	NP13Q	0.226	0.0	100.0
10654032	NP13R	0.233	0.0	100.0
10654033	NP13S	0.203	0.0	100.0
10654034	NP13T	0.252	0.0	100.0

Analysis Run Log



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

INSTRUMENT ID: CETAC MERCURY

START DATE: 10/1/2008

SDG: NP13

RUNID: HG100101

METHOD: CVA

END DATE: 10/1/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN				
S0	S0	1.00	09033														X																				
S0.1	S0.1	1.00	09051														X																				
S0.5	S0.5	1.00	09064														X																				
S1	S1	1.00	09082														X																				
S2	S2	1.00	09100														X																				
S5	S5	1.00	09114														X																				
S10	S10	1.00	09131														X																				
ICV	AICV	1.00	09165														X																				
ICB	ICB	1.00	09182														X																				
CCV	ACCV1	1.00	09200														X																				
CCB	CCB1	1.00	09214														X																				
CRA	CRA	1.00	09232														X																				
PBW	NP13MB1	1.00	09245														X																				
LCSW	NP13MB1SPK	1.00	09263														X																				
10654015	NP13A	1.00	09281														X																				
10654015D	NP13ADUP	1.00	09294														X																				
10654015S	NP13ASPK	1.00	09312														X																				
10654016	NP13B	1.00	09330														X																				
10654017	NP13C	1.00	09343														X																				
10654018	NP13D	1.00	09361														X																				
10654019	NP13E	1.00	09375														X																				
CCV	ACCV2	1.00	09393														X																				
CCB	CCB2	1.00	09411														X																				
10654020	NP13F	1.00	09425														X																				
10654021	NP13G	1.00	09442														X																				
10654022	NP13H	1.00	09460														X																				
10654023	NP13I	1.00	09474														X																				
10654024	NP13J	1.00	09491														X																				
10654025	NP13K	1.00	09505														X																				
10654026	NP13L	1.00	09523														X																				
10654027	NP13M	1.00	09540														X																				
10654028	NP13N	1.00	09554														X																				
10654029	NP13O	1.00	09572														X																				
CCV	ACCV3	1.00	09590														X																				
CCB	CCB3	1.00	10004														X																				

NP13 : 000050

Analysis Run Log



CLIENT: Geomatrix, Inc.

PROJECT: FORMER CUSTOM PLYWOOD

INSTRUMENT ID: CETAC MERCURY

START DATE: 10/1/2008

SDG: NP13

RUNID: HG100101

METHOD: CVA

END DATE: 10/1/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN				
10654030	NP13P	1.00	10022														X																				
10654031	NP13Q	1.00	10040														X																				
10654032	NP13R	1.00	10053														X																				
10654033	NP13S	1.00	10071														X																				
10654034	NP13T	1.00	10084														X																				
ZZZZZZ	NP12ME1	1.00	10102																																		
ZZZZZZ	NP12ME1SPK	1.00	10120																																		
ZZZZZZ	NP12A	1.00	10133																																		
ZZZZZZ	NP12ADUP	1.00	10151																																		
ZZZZZZ	NP12ASPK	1.00	10165																																		
CCV	ACCV4	1.00	10183																																		
CCB	CCB4	1.00	10201																																		

NP12: 00054

**Metals Analysis
Sample Data**

**Prepared
for**

GEOMATRIX, INC.

Project: Former Custom Plywood Site, 10654.001

ARI Job Nos.: NP12 and NP13

**Prepared
By**

Analytical Resources, Inc.

NP12 : 00055

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: 10654001

SAMPLE

Lab Sample ID: NP12A

QC Report No: NP12-Geomatrix, Inc.

LIMS ID: 08-23934

Project: FORMER CUSTOM PLYWOOD SITE

Matrix: Sediment

10654.001

Data Release Authorized: 

Date Sampled: 09/03/08

Reported: 10/01/08

Date Received: 09/12/08

Percent Total Solids: 42.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.1	0.1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: 10654007
SAMPLE

Lab Sample ID: NP12G

LIMS ID: 08-23940

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

Percent Total Solids: 40.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.1	0.1	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: 10654008
SAMPLE

Lab Sample ID: NP12H

LIMS ID: 08-23941

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 41.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.1	0.1	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: 10654009
SAMPLE

Lab Sample ID: NP12I


QC Report No: NP12-Geomatrix, Inc.

LIMS ID: 08-23942

Project: FORMER CUSTOM PLYWOOD SITE

Matrix: Sediment

10654.001

Data Release Authorized: 

Date Sampled: 09/04/08

Reported: 10/01/08

Date Received: 09/12/08

Percent Total Solids: 43.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.08	0.11	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654011

SAMPLE

Lab Sample ID: NP12K

LIMS ID: 08-23944

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP12-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 50.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.08	0.08	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

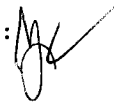
Page 1 of 1

Sample ID: 10654018
SAMPLE

Lab Sample ID: NP13D

LIMS ID: 08-23951

Matrix: Sediment

Data Release Authorized: 

Reported: 10/01/08

QC Report No: NP13-Geomatrix, Inc.

Project: FORMER CUSTOM PLYWOOD SITE

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 47.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.08	0.10	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: 10654028
SAMPLE

Lab Sample ID: NP13N
LIMS ID: 08-23961
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 10/01/08

QC Report No: NP13-Geomatrix, Inc.
Project: FORMER CUSTOM PLYWOOD SITE
10654.001
Date Sampled: 09/05/08
Date Received: 09/12/08

Percent Total Solids: 68.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	09/30/08	7471A	10/01/08	7439-97-6	Mercury	0.06	0.06	U

U-Analyte undetected at given RL
RL-Reporting Limit

**Metals Analysis
Instrument Raw Data and Logs**

**Prepared
for**

GEOMATRIX, INC.

Project: Former Custom Plywood Site, 10654.001

ARI Job Nos.: NP12 and NP13

**Prepared
By**

Analytical Resources, Inc.

NP12 : 00063

Mercury Analysis Log

Analyst: DM
 Instrument: CETAL

Date: 10-01-08
 Page: 1 of 5

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
STD 0.0	5mm	1X		
" 0.1				
" 0.5				
" 1.0				
" 2.0				
" 5.0				
" 10.0				
ICV			8.27	Begin CLP %R=103 ✓
ICB			-0.03	✓
CCV			4.05	%R=101 ✓
CCB			0.01	✓
CRA			0.12	✓
NP13 MBI			0.01	✓
" MBISPK			2.12	%R=106 ✓
" A			0.11	
" ADUP			0.11	✓
" PEAK			1.17	%R=106 ✓
" B				
" C				
" D				
" E				
CCV2			4.30	%R=108 ✓
CCB2			0.01	✓
NP13 F				
" G				
" H				
" I				
" J				
" K				
" L				

Chemical/Reagent ID:
 10% SnCl₂: MP1542
 Standard ID:
 Standard: 2534-11

14% NH₂OH/NaCl: MP1543
 ICV/CCV: 45-14

Mercury Analysis Log

Analyst: DM
Instrument: CETAC

Date: 10-01-06
Page: 2 of 5

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
NP13 M	5mm	1X		
" N				
" O				
CCV3			4.16	%R=104 ✓
CCB3			0.01	✓
NP13 P				
" Q				
" R				
" S				
" T				
NP12 MB1			0.02	✓
" MB1SPK			2.14	%R=107 ✓
" A			0.09	
" ADUP			0.11	✓
" ASPK			1.24	%R=124 ✓
CCV4			4.16	%R=104 ✓
CCB4			0.01	✓
NP12 B				
" C				
" D				
" E				
" F				
" G				
" H				
" I				
" J				
" K				
CCV5			4.16	%R=104 ✓
CCB5			0.01	✓
NP12 L	↓	↓		

Chemical/Reagent ID:
10% SnCl₂: MP1542

14% NH₂OH/NaCl: MP1543

Standard ID:
Standard: 2534-11

ICV/CCV: 45-14

Mercury Analysis Log

Analyst: DM
 Instrument: CETAL

Date: 10-01-06
 Page: 3 of 5

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
NP12 M	5mm	1x		
" N				
NP32 MBI			0.02	✓
" MBISPK			2.15	%R=106 ✓
" C				
" D				
CCV6			4.18	%R=105 ✓
CCB6			0.01	✓
NP14 MBI			0.02	<del style="text-align: right;">✓
" MBISPK			2.09	<del style="text-align: right;">%R=105 ✓
" B			0.12	
" BQUP			0.13	✓
" BSPA			1.18	%R=106 ✓
" C				
" D				
" E				
" F				
" G				
CCV7			4.26	%R=107 ✓
CCB7			0.01	✓
NP29 MBI			0.02	✓
" MBISPK			2.18	%R=109 ✓
" B				
" C				
" D				
NP32 MBI			0.02	✓
" MBISPK			2.17	%R=109 ✓
" A				
" B				
" C				

Chemical/Reagent ID:
 10% SnCl₂: MP542
 Standard ID:
 Standard: 2534-11

14% NH₂OH/NaCl: MP542
 ICV/CCV: 45/14

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 10-01-08

	Analyst	Peer	Comment
Logbook:	p-l DM	ewd 10/1	
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	—	—	
Carry-over	—	—	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	—	—	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	—	—	

Analyst
 Date Started Wednesday, October 01, 2008, 09:02:16
 Worksheet ARI 10ppb CALIB
 Comment

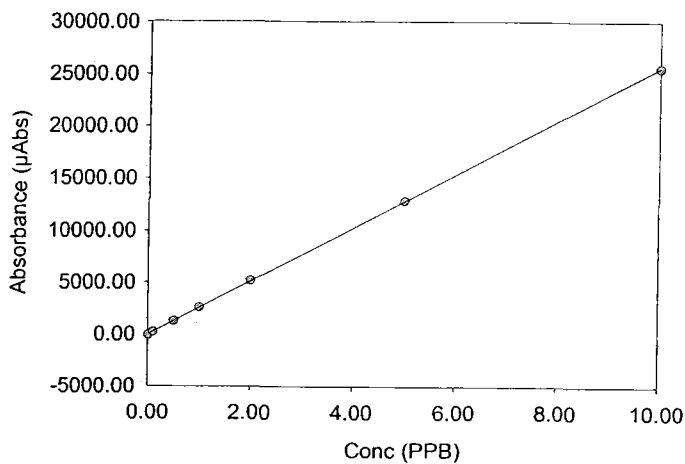
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
Std Tube 6	01-Oct-2008, 09:02	10.00	0.71	25600.00	1.00	

Information about this calibration could not be retrieved from the Master File.

*100
10'*

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
Calibration Zero	01-Oct-2008, 09:03	0.00	2.01	-60.60	1.00	
Standard #1	01-Oct-2008, 09:05	0.10	0.31	247.00	1.00	
Standard #2	01-Oct-2008, 09:06	0.50	1.67	1290.00	1.00	
Standard #3	01-Oct-2008, 09:08	1.00	0.36	2620.00	1.00	
Standard #4	01-Oct-2008, 09:10	2.00	1.88	5210.00	1.00	
Standard #5	01-Oct-2008, 09:11	5.00	0.93	12900.00	1.00	
Standard #6	01-Oct-2008, 09:13	10.00	0.53	25600.00	1.00	

Calibration Data



Int. Slope 0.000
 2564.323
 Correlation 0.99998

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
ICV	01-Oct-2008, 09:16	8.27	2.04	21200.00	1.00	
ICB	01-Oct-2008, 09:18	-0.03	2.21	-75.00	1.00	

Begin CLP

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	01-Oct-2008, 09:20	4.05	0.95	10400.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Blank	01-Oct-2008, 09:21	0.01	10.80	21.80	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
CRA	01-Oct-2008, 09:23	0.12	0.61	310.00	1.00	
NP13 MB1 SMM	01-Oct-2008, 09:24	0.01	2.19	32.20	1.00	
NP13 MB1SPK SMM	01-Oct-2008, 09:26	2.12	0.80	5420.00	1.00	
NP13 A SMM	01-Oct-2008, 09:28	0.11	1.04	286.00	1.00	
NP13 ADUP SMM	01-Oct-2008, 09:29	0.11	0.93	289.00	1.00	
NP13 ASPK SMM	01-Oct-2008, 09:31	1.17	0.66	3010.00	1.00	
NP13 B SMM	01-Oct-2008, 09:33	0.10	0.67	253.00	1.00	
NP13 C SMM	01-Oct-2008, 09:34	0.08	0.88	213.00	1.00	
NP13 D SMM	01-Oct-2008, 09:36	0.12	0.45	301.00	1.00	
NP13 E SMM	01-Oct-2008, 09:37	0.10	0.95	250.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	01-Oct-2008, 09:39	4.30	0.49	11000.00	1.00	

Analyst
Date Started Wednesday, October 01, 2008, 09:41:15
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	01-Oct-2008, 09:41	0.01	9.37	25.50	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NP13 F SMM	01-Oct-2008, 09:42	0.09	1.44	238.00	1.00	
NP13 G SMM	01-Oct-2008, 09:44	0.11	0.43	285.00	1.00	
NP13 H SMM	01-Oct-2008, 09:46	0.08	0.84	214.00	1.00	
NP13 I SMM	01-Oct-2008, 09:47	0.09	1.71	220.00	1.00	
NP13 J SMM	01-Oct-2008, 09:49	0.08	1.25	215.00	1.00	
NP13 K SMM	01-Oct-2008, 09:50	0.09	1.69	223.00	1.00	
NP13 L SMM	01-Oct-2008, 09:52	0.07	1.14	175.00	1.00	
NP13 M SMM	01-Oct-2008, 09:54	0.05	0.83	136.00	1.00	
NP13 N SMM	01-Oct-2008, 09:55	0.06	2.56	164.00	1.00	
NP13 O SMM	01-Oct-2008, 09:57	0.21	0.22	530.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	01-Oct-2008, 09:59	4.16	0.66	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	01-Oct-2008, 10:00	0.01	9.37	15.80	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NP13 P SMM	01-Oct-2008, 10:02	0.14	0.53	368.00	1.00	
NP13 Q SMM	01-Oct-2008, 10:04	0.16	0.40	400.00	1.00	
NP13 R SMM	01-Oct-2008, 10:05	0.08	0.83	210.00	1.00	
NP13 S SMM	01-Oct-2008, 10:07	0.03	3.66	83.00	1.00	
NP13 T SMM	01-Oct-2008, 10:08	0.11	1.08	281.00	1.00	
NP12 MB1 SMM	01-Oct-2008, 10:10	0.02	5.45	50.60	1.00	
NP12 MB1SPK SMM	01-Oct-2008, 10:12	2.14	0.89	5480.00	1.00	
NP12 A SMM	01-Oct-2008, 10:13	0.09	1.60	241.00	1.00	
NP12 ADUP SMM	01-Oct-2008, 10:15	0.11	0.33	271.00	1.00	
NP12 ASPK SMM	01-Oct-2008, 10:16	1.24	1.13	3170.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	01-Oct-2008, 10:18	4.16	0.77	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	01-Oct-2008, 10:20	0.01	4.94	15.60	1.00	


Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NP12 B SMM	01-Oct-2008, 10:21	0.10	1.08	248.00	1.00	
NP12 C SMM	01-Oct-2008, 10:23	0.10	1.42	247.00	1.00	
NP12 D SMM	01-Oct-2008, 10:25	0.11	0.50	289.00	1.00	
NP12 E SMM	01-Oct-2008, 10:26	0.11	1.54	289.00	1.00	
NP12 F SMM	01-Oct-2008, 10:28	0.11	0.31	278.00	1.00	
NP12 G SMM	01-Oct-2008, 10:30	0.13	0.71	323.00	1.00	
NP12 H SMM	01-Oct-2008, 10:31	0.10	1.06	254.00	1.00	
NP12 I SMM	01-Oct-2008, 10:33	0.13	1.11	345.00	1.00	
NP12 J SMM	01-Oct-2008, 10:34	0.09	0.56	221.00	1.00	
NP12 K SMM	01-Oct-2008, 10:36	0.09	1.44	223.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	01-Oct-2008, 10:38	4.16	0.67	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	01-Oct-2008, 10:39	0.01	3.57	32.80	1.00	

Analyst
 Date Started Wednesday, October 01, 2008, 10:41:29
 Worksheet ARI 10ppb CALIB
 Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NP12 L SMM	01-Oct-2008, 10:41	0.13	1.22	328.00	1.00	
NP12 M SMM	01-Oct-2008, 10:43	0.10	0.45	247.00	1.00	
NP12 N SMM	01-Oct-2008, 10:44	0.13	1.16	346.00	1.00	
NQ32 MB1 SMM	01-Oct-2008, 10:46	0.02	3.14	47.70	1.00	
NQ32 MB1SPK SMM	01-Oct-2008, 10:48	2.15	0.65	5510.00	1.00	
NQ32 C SMM	01-Oct-2008, 10:49	0.22	0.45	570.00	1.00	
NQ32 D SMM	01-Oct-2008, 10:51	0.07	0.52	187.00	1.00	
QC Standard	01-Oct-2008, 10:52	4.18	0.77	10700.00	1.00	
QC Blank	01-Oct-2008, 10:54	0.01	4.60	36.90	1.00	
NP14 MB1 SMM	01-Oct-2008, 10:56	0.02	3.27	39.70	1.00	
NP14 MB1SPK SMM	01-Oct-2008, 10:58	2.09	1.03	5360.00	1.00	
NP14 B SMM	01-Oct-2008, 10:59	0.12	0.92	297.00	1.00	
NP14 BSUP SMM	01-Oct-2008, 11:01	0.13	2.00	332.00	1.00	
NP14 BSPK SMM	01-Oct-2008, 11:02	1.18	0.87	3020.00	1.00	
NP14 C SMM	01-Oct-2008, 11:04	0.02	1.85	61.80	1.00	
NP14 D SMM	01-Oct-2008, 11:06	0.20	0.36	502.00	1.00	
NP14 E SMM	01-Oct-2008, 11:07	0.16	0.51	410.00	1.00	
NP14 F SMM	01-Oct-2008, 11:09	0.20	0.49	515.00	1.00	
NP14 G SMM	01-Oct-2008, 11:11	0.04	1.53	97.60	1.00	
QC Standard	01-Oct-2008, 11:12	4.26	0.78	10900.00	1.00	
QC Blank	01-Oct-2008, 11:14	0.01	7.29	34.00	1.00	
NP29 MB1 SMM	01-Oct-2008, 11:16	0.02	5.71	46.50	1.00	
NP29 MB1SPK SMM	01-Oct-2008, 11:17	2.18	0.46	5590.00	1.00	
NP29 B SMM	01-Oct-2008, 11:19	0.09	1.49	231.00	1.00	
NP29 C SMM	01-Oct-2008, 11:20	0.09	1.19	235.00	1.00	
NP29 D SMM	01-Oct-2008, 11:22	0.04	4.77	110.00	1.00	
NP32 MB1 SMM	01-Oct-2008, 11:24	0.02	4.28	46.40	1.00	
NP32 MB1SPK SMM	01-Oct-2008, 11:25	2.17	0.59	5560.00	1.00	
NP32 A SMM	01-Oct-2008, 11:27	0.08	0.87	207.00	1.00	
NP32 B SMM	01-Oct-2008, 11:28	0.35	0.76	897.00	1.00	
NP32 C SMM	01-Oct-2008, 11:30	0.09	0.99	242.00	1.00	
QC Standard	01-Oct-2008, 11:32	4.16	0.73	10700.00	1.00	
QC Blank	01-Oct-2008, 11:33	0.02	4.01	39.20	1.00	
NP32 D SMM	01-Oct-2008, 11:35	0.06	1.31	166.00	1.00	
NP56 MB2 SMM	01-Oct-2008, 11:37	0.02	3.35	42.00	1.00	
NP56 MB2SPK SMM	01-Oct-2008, 11:38	2.16	0.69	5540.00	1.00	
NP56 C SMM	01-Oct-2008, 11:40	0.05	0.48	116.00	1.00	
NP56 D SMM	01-Oct-2008, 11:42	0.14	1.19	355.00	1.00	
NP56 E SMM	01-Oct-2008, 11:43	0.05	3.33	122.00	1.00	

NP12 : 00070


Mercury Standard Prep Log

Prep Code: SMM

Instrument: CETAC

Analyst: EM

Date: 9/24/08

Bath Temp: 95°C

Start Time: 1545

End Time: 1615

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	2
STD1	2533-12	0.01	↓	0.1	2
STD2	↓	0.05	↓	0.5	2
STD3	↓	0.10	↓	1.0	2
STD4	↓	0.20	↓	2.0	2
STD5	↓	0.50	↓	5.0	2
STD6	↓	1.00	↓	10.0	2
CRA	↓	0.01	↓	0.1	1
ICB/CCB	—	0.00	↓	0.0	2
ICV/LCS	45-14	0.16	↓	8.0	2
CCV	↓	0.08	100.0	4.0	2

Chemical/Reagent ID:

HNO₃: I4397

H₂SO₄: I4504

HCl: —

5% K₂S₂O₈: MP1531

5% KMnO₄: MP1532

Prep Code: Smm

Instrument: CETAC

Analyst: Dm

Date: 9-30-08

Bath Temp: 95°C

Start Time: 1540

End Time: 1610

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	2
STD1	2534-11	0.01	↓	0.1	2
STD2	↓	0.05	↓	0.5	2
STD3	↓	0.10	↓	1.0	2
STD4	↓	0.20	↓	2.0	2
STD5	↓	0.50	↓	5.0	2
STD6	↓	1.00	↓	10.0	2
CRA	↓	0.01	↓	0.1	1
ICB/CCB	—	0.00	↓	0.0	2
ICV/LCS	45-14	0.16	↓	8.0	2
CCV	↓	0.08	100.0	4.0	2

Chemical/Reagent ID:

HNO₃: I4397

H₂SO₄: I4504

HCl: —

5% K₂S₂O₈: MP1531

5% KMnO₄: MP1532 001459



Mercury Digestion Log

Prep Code: SMM

Analyst: MH

Bath Temp: 95°C

Start Time: 1600

Matrix: Soil

Date: 9/30/08

End Time: 1630

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# KMnO ₄ Aliquots	CL P	Comments
NP12 A	1	H19	-	0.225	100.0	9/26 1	(Y)	
" ADUP	1	P11	-	0.228		1		
" ASPK	1	F24	-	0.223		1		
" B	1	T22	-	0.253		1		
" C	1	A23	-	0.270		1		
" D	1	P3	-	0.299		1		
" E	1	X13	-	0.283		1		
" F	1	Y19	-	0.279		1		
" G	1	F14	-	0.254		1		
" H	1	P10	-	0.235		1		
" I	1	A3	-	0.279		1		
" J	1	A24	-	0.247		1		
" K	1	P20	-	0.257		1		
" L	1	X17	-	0.270		1		
" M	1	F23	-	0.248		1		
" N	1	T11	-	0.237		1		
" MBI	-	I26	-	-		1		
" MBISPK	-	F5	-	-	100.0	1	(Y)	
MH 9/30/08								

Chemical/Reagent ID:

HNO₃: I4397

H₂SO₄: I4504

HCl: ---

5% K₂S₂O₈: MP1545

5% KMnO₄: MP1546

Digest Tube Lot: ---

Mercury Analysis Log

Analyst: DM
 Instrument: CETA2

Date: 10-01-08
 Page: 1 of 5

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
STD 0.0	3mm	1x		
" 0.1				
" 0.5				
" 1.0				
" 2.0				
" 5.0				
" 10.0				
ICV			8.27	Begin CLP %R=103 ✓
ICB			-0.03	✓
CCV1			4.05	%R=101 ✓
CCB1			0.01	✓
CRA			0.12	✓
NP13 MBI			0.01	✓
" MBISPK			2.12	%R=106 ✓
" A			0.11	
" ADUP			0.11	✓
" PEAK			1.17	%R=106 ✓
" B				
" C				
" D				
" E				
CCV2			4.30	%R=108 ✓
CCB2			0.01	✓
NP13 F				
" G				
" H				
" I				
" J				
" K				
" L				

Chemical/Reagent ID:
 10% SnCl₂: MP1542
 Standard ID:
 Standard: 2534-11

14% NH₂OH/NaCl: MP1543
 ICV/CCV: 45-14

Mercury Analysis Log

Analyst: DM
 Instrument: CETAC

Date: 10-01-06
 Page: 2 of 5

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
NP13 M	Smm	IX		
" N				
" O				
CCV3			4.16	%R=104 ✓
CCB3			0.01	✓
NP13 P				
" Q				
" R				
" S				
" T				
NP12 MB1			0.02	✓
" MB1SPX			2.14	%R=107 ✓
" A			0.09	
" ADUP			0.11	✓
" ASPX			1.24	%R=124 ✓
CCV4			4.16	%R=104 ✓
CCB4			0.01	✓
NP12 B				
" C				
" D				
" E				
" F				
" G				
" H				
" I				
" J				
" K				
CCV5			4.16	%R=104 ✓
CCB5			0.01	✓
NP12 L				

Chemical/Reagent ID:
 10% SnCl₂: MP1542

14% NH₂OH/NaCl: MP1543

Standard ID:
 Standard: 2534-11

ICV/CCV: 45-14

[Handwritten Signature]
 10/1/06

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 10-01-08

	Analyst	Peer	Comment
Logbook:	p-1 DM	ELQ 10/1	
Analyst, Date, Method info	✓		
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	—	—	
Carry-over	—	—	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	—	—	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	—	—	

Analyst
 Date Started Wednesday, October 01, 2008, 09:02:16
 Worksheet ARI 10ppb CALIB
 Comment

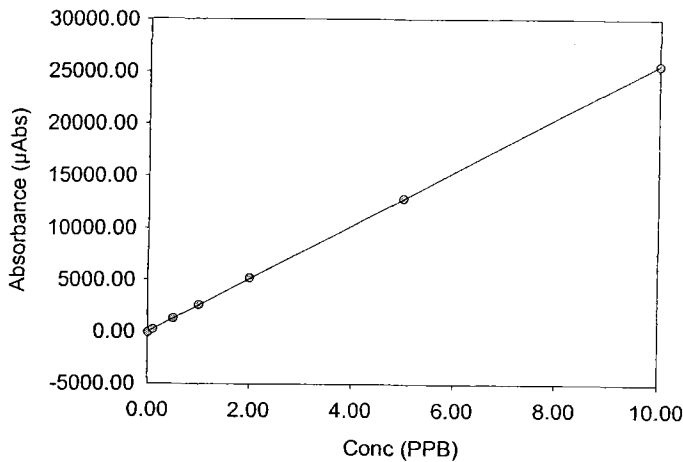
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
Std Tube 6	01-Oct-2008, 09:02	10.00	0.71	25600.00	1.00	

Information about this calibration could not be retrieved from the Master File.

*100
10.1*

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
Calibration Zero	01-Oct-2008, 09:03	0.00	2.01	-60.60	1.00	
Standard #1	01-Oct-2008, 09:05	0.10	0.31	247.00	1.00	
Standard #2	01-Oct-2008, 09:06	0.50	1.67	1290.00	1.00	
Standard #3	01-Oct-2008, 09:08	1.00	0.36	2620.00	1.00	
Standard #4	01-Oct-2008, 09:10	2.00	1.88	5210.00	1.00	
Standard #5	01-Oct-2008, 09:11	5.00	0.93	12900.00	1.00	
Standard #6	01-Oct-2008, 09:13	10.00	0.53	25600.00	1.00	

Calibration Data



Int. 0.000
 Slope 2564.323
 Correlation 0.99998

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
ICV	01-Oct-2008, 09:16	8.27	2.04	21200.00	1.00	
ICB	01-Oct-2008, 09:18	-0.03	2.21	-75.00	1.00	

Begin CLP

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	01-Oct-2008, 09:20	4.05	0.95	10400.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Blank	01-Oct-2008, 09:21	0.01	10.80	21.80	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
CRA	01-Oct-2008, 09:23	0.12	0.61	310.00	1.00	
NP13 MB1 SMM	01-Oct-2008, 09:24	0.01	2.19	32.20	1.00	
NP13 MB1SPK SMM	01-Oct-2008, 09:26	2.12	0.80	5420.00	1.00	
NP13 A SMM	01-Oct-2008, 09:28	0.11	1.04	286.00	1.00	
NP13 ADUP SMM	01-Oct-2008, 09:29	0.11	0.93	289.00	1.00	
NP13 ASPK SMM	01-Oct-2008, 09:31	1.17	0.66	3010.00	1.00	
NP13 B SMM	01-Oct-2008, 09:33	0.10	0.67	253.00	1.00	
NP13 C SMM	01-Oct-2008, 09:34	0.08	0.88	213.00	1.00	
NP13 D SMM	01-Oct-2008, 09:36	0.12	0.45	301.00	1.00	
NP13 E SMM	01-Oct-2008, 09:37	0.10	0.95	250.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	01-Oct-2008, 09:39	4.30	0.49	11000.00	1.00	

Analyst
Date Started Wednesday, October 01, 2008, 09:41:15
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	01-Oct-2008, 09:41	0.01	9.37	25.50	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NP13 F SMM	01-Oct-2008, 09:42	0.09	1.44	238.00	1.00	
NP13 G SMM	01-Oct-2008, 09:44	0.11	0.43	285.00	1.00	
NP13 H SMM	01-Oct-2008, 09:46	0.08	0.84	214.00	1.00	
NP13 I SMM	01-Oct-2008, 09:47	0.09	1.71	220.00	1.00	
NP13 J SMM	01-Oct-2008, 09:49	0.08	1.25	215.00	1.00	
NP13 K SMM	01-Oct-2008, 09:50	0.09	1.69	223.00	1.00	
NP13 L SMM	01-Oct-2008, 09:52	0.07	1.14	175.00	1.00	
NP13 M SMM	01-Oct-2008, 09:54	0.05	0.83	136.00	1.00	
NP13 N SMM	01-Oct-2008, 09:55	0.06	2.56	164.00	1.00	
NP13 O SMM	01-Oct-2008, 09:57	0.21	0.22	530.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	01-Oct-2008, 09:59	4.16	0.66	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	01-Oct-2008, 10:00	0.01	9.37	15.80	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NP13 P SMM	01-Oct-2008, 10:02	0.14	0.53	368.00	1.00	
NP13 Q SMM	01-Oct-2008, 10:04	0.16	0.40	400.00	1.00	
NP13 R SMM	01-Oct-2008, 10:05	0.08	0.83	210.00	1.00	
NP13 S SMM	01-Oct-2008, 10:07	0.03	3.66	83.00	1.00	
NP13 T SMM	01-Oct-2008, 10:08	0.11	1.08	281.00	1.00	
NP12 MB1 SMM	01-Oct-2008, 10:10	0.02	5.45	50.60	1.00	
NP12 MB1SPK SMM	01-Oct-2008, 10:12	2.14	0.89	5480.00	1.00	
NP12 A SMM	01-Oct-2008, 10:13	0.09	1.60	241.00	1.00	
NP12 ADUP SMM	01-Oct-2008, 10:15	0.11	0.33	271.00	1.00	
NP12 ASPK SMM	01-Oct-2008, 10:16	1.24	1.13	3170.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	01-Oct-2008, 10:18	4.16	0.77	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	01-Oct-2008, 10:20	0.01	4.94	15.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NP12 B SMM	01-Oct-2008, 10:21	0.10	1.08	248.00	1.00	
NP12 C SMM	01-Oct-2008, 10:23	0.10	1.42	247.00	1.00	
NP12 D SMM	01-Oct-2008, 10:25	0.11	0.50	289.00	1.00	
NP12 E SMM	01-Oct-2008, 10:26	0.11	1.54	289.00	1.00	
NP12 F SMM	01-Oct-2008, 10:28	0.11	0.31	278.00	1.00	
NP12 G SMM	01-Oct-2008, 10:30	0.13	0.71	323.00	1.00	
NP12 H SMM	01-Oct-2008, 10:31	0.10	1.06	254.00	1.00	
NP12 I SMM	01-Oct-2008, 10:33	0.13	1.11	345.00	1.00	
NP12 J SMM	01-Oct-2008, 10:34	0.09	0.66	221.00	1.00	
NP12 K SMM	01-Oct-2008, 10:36	0.09	1.44	223.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	01-Oct-2008, 10:38	4.16	0.67	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	01-Oct-2008, 10:39	0.01	3.57	32.80	1.00	

Mercury Standard Prep Log

Prep Code: SMM

Instrument: CETAC

Analyst: EM

Date: 9/24/08

Bath Temp: 95°C

Start Time: 1545

End Time: 1615

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	2
STD1	2533-12	0.01		0.1	2
STD2		0.05		0.5	2
STD3		0.10		1.0	2
STD4		0.20		2.0	2
STD5		0.50		5.0	2
STD6		1.00		10.0	2
CRA		0.01		0.1	1
ICB/CCB	—	0.00		0.0	2
ICV/LCS	45-14	0.16		8.0	2
CCV		0.08	100.0	4.0	2

Chemical/Reagent ID:

HNO₃: I4397

H₂SO₄: I4504

HCl: —

5% K₂S₂O₈: MP1531

5% KMnO₄: MP1532

Prep Code: Smm

Instrument: CETAC

Analyst: Dm

Date: 9-30-08

Bath Temp: 95°C

Start Time: 1540

End Time: 1610

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	2
STD1	2534-11	0.01		0.1	2
STD2		0.05		0.5	2
STD3		0.10		1.0	2
STD4		0.20		2.0	2
STD5		0.50		5.0	2
STD6		1.00		10.0	2
CRA		0.01		0.1	1
ICB/CCB	—	0.00		0.0	2
ICV/LCS	45-14	0.16		8.0	2
CCV		0.08	100.0	4.0	2

Chemical/Reagent ID:

HNO₃: I4397

H₂SO₄: I4504

HCl: —

5% K₂S₂O₈: MP1531

5% KMnO₄: MP1532 001459



Mercury Digestion Log

Prep Code: SMM

Matrix: Soil

Analyst: MH

Date: 9/30/08

Bath Temp: 95°C

Start Time: 1305

End Time: 1335

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# KMnO ₄ Aliquots	CL P	Comments
NP13 A	1	A16	-	0.269	100.0	1/26 1	(Y)	
" ADUP	1	V9	-	0.270		1		
" ASPK	1	I4	-	0.274		1		
" B	1	I13	-	0.290		1		
" C	1	H14	-	0.226		1		
" D	1	H6	-	0.251		1		
" E	1	X12	-	0.219		1		
" F	1	V13	-	0.265		1		
" G	1	C6	-	0.283		1		
" H	1	H23	-	0.252		1		
" I	1	Y14	-	0.264		1		
" J	1	T3	-	0.231		1		
" K	1	I7	-	0.292		1		
" L	1	P23	-	0.223		1		
" M	1	V1	-	0.210		1		
" N	1	C2	-	0.230		1		
" B	1	V20	-	0.249		1		
" P	1	V19	-	0.282		1		
" Q	1	P12	-	0.226		1		
" R	1	T5	-	0.233		1		
" S	1	X22	-	0.203		1		
" T	1	X13	-	0.252		1		
" MBI	-	T11	-	-	↓	1		
" MBSPK	-	H24	-	-	100.0	1	(Y)	

Chemical/Reagent ID:

HNO₃: I4397

H₂SO₄: I4504

HCl: -

5% K₂S₂O₈: MP1531

5% KMnO₄: MP1532

Digest Tube Lot: -

**Metals Analysis
Prep Logs**

**Prepared
for**

GEOMATRIX, INC.

Project: Former Custom Plywood Site, 10654.001

ARI Job Nos.: NP12 and NP13

**Prepared
By**

Analytical Resources, Inc.

SPIKING LOG

Analyst: MH

Final Volume _____

Sample ID NP13 ASPK, MBISPK

Date: 9/30/08

Final Volume (Hg): 100

NP12 ASPK, MBISPK

Prepcode:	ICP Routine	ICP No GFA	GFA
Spike Solution:			
Standard No.:			
Vol Added (mL):			
Ag	50		2.0
Al	200	200	
As	200		10
Ba	200	200	
Be	50	50	
Ca	1000	1000	
Cd	50		2.0
Co	50	50	
Cr	50	50	
Cu	50	50	
Fe	200	200	
K	1000	1000	
Mg	1000	1000	
Mn	50	50	
Na	1000	1000	
Ni	50	50	
Pb	200		10
Se	200		10
Sr	50	50	
Tl	200		10
V	50	50	
Zn	50	50	

ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25	
Al		500
As	25	
Ba	25	
Be	25	
Ca		500
Cd	25	
Co	25	
Cr	25	
Cu	25	
Fe		500
K		500
Mg		500
Mn	25	
Mo		25
Na		500
Ni	25	
Pb	25	
Sb		25
Se	80	
Th	25	
U	25	
V	25	
Zn	80	

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg	<u>SMM</u>	CVA	1.0	<u>0.1</u>	<u>2514.4</u>
Hg MBSPK	<u>↓</u>	CVA	1.0	<u>0.2</u>	<u>↓</u>
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

NP12: 00001



Mercury Digestion Log

Prep Code: SMM

Analyst: MH

Bath Temp: 95°C

Matrix: Soil

Date: 9/30/08

Start Time: 1600

End Time: 1630

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# KMnO ₄ Aliquots	CL P	Comments
NP12 A	1	H19	-	0.225	100.6	9/26 1	(Y)	
" ADUP	1	P11	-	0.228		1		
" ASPK	1	F24	-	0.223		1		
" B	1	T22	-	0.253		1		
" C	1	A23	-	0.270		1		
" D	1	P3	-	0.299		1		
" E	1	X13	-	0.283		1		
" F	1	Y19	-	0.279		1		
" G	1	F14	-	0.254		1		
" H	1	P10	-	0.235		1		
" I	1	A3	-	0.279		1		
" J	1	A24	-	0.247		1		
" K	1	P20	-	0.257		1		
" L	1	X17	-	0.270		1		
" M	1	F23	-	0.248		1		
" N	1	T11	-	0.237		1		
" MBI	-	I26	-	-	↓	1	↓	
" MBISPK	-	F5	-	-	100.0	1	(Y)	
MH 9/30/08								

Chemical/Reagent ID:

HNO₃: I4397

H₂SO₄: I4504

HCl: —

5% K₂S₂O₈: MP1545

5% KMnO₄: MP1546

Digest Tube Lot: —



Metals Total Solids

Oven in: Analyst: MH Date: 9/30/08 Time: 1530 Temp: 102°C

Oven out: Analyst: MH Date: 10/1/08 Time: 0920 Temp: 102°C

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
NP12 A	1.009	10.453	5.034	
" B	1.009	10.266	5.991	
" C	0.996	10.229	6.797	
" D	1.028	10.383	4.701	
" E	1.017	10.324	5.620	
" F	1.020	10.295	6.480	
" G	0.973	10.304	4.714	
" H	1.030	10.703	5.047	
" I	1.018	10.182	4.972	
" J	1.013	10.443	6.227	
" K	1.034	10.041	5.605	
" L	1.019	10.314	5.434	
" M	1.000	10.038	5.846	
" N	1.048	10.490	5.173	
NR16 A	1.053	10.281	5.740	
" B	1.028	10.429	3.747	
" C	1.019	10.650	5.057	
" D	1.022	10.339	4.449	
" E	1.006	10.708	4.216	
" F	1.009	10.243	3.834	
" G	1.045	10.212	4.949	
" H	1.034	10.191	4.758	
" I	1.017	10.951	5.234	
		MH	9/30/08	

Solids Data Entry Report
Date: 10/01/08

Checked by: MH Date: 10/01/08
Data Analyst: DM

Solids Determination performed on 09/30/08 by MH

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
NP12	A	10654001	1.009	10.453	5.034	42.62
NP12	B	10654002	1.009	10.266	5.991	53.82
NP12	C	10654003	0.996	10.229	6.797	62.83
NP12	D	10654004	1.028	10.383	4.701	39.26
NP12	E	10654005	1.017	10.324	5.620	49.46
NP12	F	10654006	1.020	10.295	6.480	58.87
NP12	G	10654007	0.973	10.304	4.714	40.09
NP12	H	10654008	1.030	10.703	5.047	41.53
NP12	I	10654009	1.018	10.182	4.972	43.15
NP12	J	10654010	1.013	10.443	6.227	55.29
NP12	K	10654011	1.034	10.041	5.605	50.75
NP12	L	10654012	1.019	10.314	5.434	47.50
NP12	M	10654013	1.000	10.038	5.846	53.62
NP12	N	10654014	1.048	10.490	5.173	43.69

SPIKING LOG

Analyst: MH

Date: 9/30/08

Final Volume

Final Volume (Hg): 100

Sample ID NP13 ASPK, MBISPK

NP12 ASPK, MBISPK

Precode:	ICP Routine	ICP No GFA	GFA
Spike Solution:			
Standard No.:			
Vol Added (mL):			
Ag	50		2.0
Al	200	200	
As	200		10
Ba	200	200	
Be	50	50	
Ca	1000	1000	
Cd	50		2.0
Co	50	50	
Cr	50	50	
Cu	50	50	
Fe	200	200	
K	1000	1000	
Mg	1000	1000	
Mn	50	50	
Na	1000	1000	
Ni	50	50	
Pb	200		10
Se	200		10
Sr	50	50	
Tl	200		10
V	50	50	
Zn	50	50	

ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25	
Al		500
As	25	
Ba	25	
Be	25	
Ca		500
Cd	25	
Co	25	
Cr	25	
Cu	25	
Fe		500
K		500
Mg		500
Mn	25	
Mo		25
Na		500
Ni	25	
Pb	25	
Sb		25
Se	80	
Th	25	
U	25	
V	25	
Zn	80	

Element	Precode	Analysis	Stock Conc.	Stock Added	Std No.
Hg	SMM	CVA	1.0	0.1	2514.4
Hg MBSPK	↓	CVA	1.0	0.2	↓
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Precode	Analysis	Stock Conc.	Stock Added	Std. No.

NP12: 000000



Mercury Digestion Log

Prep Code: SMM

Matrix: Soil

Analyst: MH

Date: 9/30/08

Bath Temp: 95°C

Start Time: 1305

End Time: 1335

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# KMnO ₄ Aliquots	CL P	Comments
NP13 A	1	A6	-	0.269	100.0	9/26 1	(Y)	
" ADUP	1	V9	-	0.270		1		
" ASPK	1	I4	-	0.274		1		
" B	1	I13	-	0.290		1		
" C	1	H14	-	0.226		1		
" D	1	H6	-	0.251		1		
" E	1	X12	-	0.219		1		
" F	1	V13	-	0.265		1		
" G	1	C6	-	0.283		1		
" H	1	H23	-	0.252		1		
" I	1	Y14	-	0.264		1		
" J	1	T3	-	0.231		1		
" K	1	I7	-	0.292		1		
" L	1	P23	-	0.223		1		
" M	1	V1	-	0.210		1		
" N	1	C2	-	0.230		1		
" O	1	V20	-	0.249		1		
" P	1	V19	-	0.282		1		
" Q	1	P12	-	0.226		1		
" R	1	T5	-	0.233		1		
" S	1	X22	-	0.203		1		
" T	1	X13	-	0.252		1		
" MBI	-	T11	-	-	↓	1		
" MBSPK	-	H24	-	-	100.0	1	(Y)	

Chemical/Reagent ID:

HNO₃: I4397

H₂SO₄: I4504

HCl: -

5% K₂S₂O₈: MP1531

5% KMnO₄: MP1532

Digest Tube Lot: -



Metals Total Solids

Oven in: Analyst: MH Date: 9/30/08 Time: 1530 Temp: 102°C

Oven out: Analyst: MH Date: 10/1/08 Time: 0920 Temp: 102°C

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
NP13 A	1.016	10.605	5.592	
" B	1.018	10.061	6.101	
" C	1.025	10.306	6.167	
" D	1.024	10.290	5.442	
" E	0.998	10.697	5.914	
" F	1.033	10.357	6.134	
" G	1.043	10.314	5.536	
" H	1.014	10.162	5.694	
" I	1.015	10.890	6.5 ^{MH} 6.454 10/1/08	
" J	1.022	10.285	5.921	
" K	1.028	10.853	5.905	
" L	1.055	10.866	6.128	
" M	1.037	10.090	8.031	
" N	1.032	10.797	7.733	
" O	1.033	10.806	9.344	
" P	1.028	10.292	6.944	
" Q	1.023	10.514	6.636	
" R	1.018	10.269	6.092	
" S	1.034	10.876	8.187	
" T	1.039	10.648	7.631	
MH 9/30/08				

Solids Data Entry Report
Date: 10/01/08

Checked by: MH Date: 10/01/08
Data Analyst: DM

Solids Determination performed on 09/30/08 by MH

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
NP13	A	10654015	1.016	10.605	5.592	47.72
NP13	B	10654016	1.018	10.061	6.101	56.21
NP13	C	10654017	1.025	10.306	6.167	55.40
NP13	D	10654018	1.024	10.290	5.442	47.68
NP13	E	10654019	0.998	10.697	5.914	50.69
NP13	F	10654020	1.033	10.357	6.134	54.71
NP13	G	10654021	1.043	10.314	5.536	48.46
NP13	H	10654022	1.014	10.162	5.694	51.16
NP13	I	10654023	1.015	10.890	6.454	55.08
NP13	J	10654024	1.022	10.285	5.921	52.89
NP13	K	10654025	1.028	10.853	5.905	49.64
NP13	L	10654026	1.055	10.866	6.128	51.71
NP13	M	10654027	1.037	10.090	8.031	77.26
NP13	N	10654028	1.032	10.797	7.733	68.62
NP13	O	10654029	1.033	10.806	9.344	85.04
NP13	P	10654030	1.028	10.292	6.944	63.86
NP13	Q	10654031	1.023	10.514	6.636	59.14
NP13	R	10654032	1.018	10.269	6.092	54.85
NP13	S	10654033	1.034	10.876	8.187	72.68
NP13	T	10654034	1.039	10.648	7.631	68.60



Analytical Resources, Incorporated
Analytical Chemists and Consultants

8 July 2009

Rob Gilmour
AMEC, Inc.
3500 188th Street SW, Suite 600
Lynnwood, WA 98037-4763

RE: Project: Former Custom Plywood Site, 10654.001
ARI Job No.: OW90

Dear Rob:

Please find enclosed the final data package for the samples from the project referenced above. Analytical Resources, Inc. received these sediment samples on September 12, 2008. There were no discrepancies in the paperwork.

Select samples were analyzed for SVOAs, PCBs and metals as requested.

Problems associated with these analyses are discussed in the case narrative.

A copy of this package will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Mark Harris".

Mark Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file OW90

MDH/mdh

Case Narrative

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Case Narrative

Client: AMEC, Inc.
Project: Former Custom Plywood Site
Matrix: Sediment
ARI Job No: OW90
Date: July 8, 2009

SVOAs Analyses

These analyses proceeded without incident of note.

PCBs Analyses

A matrix spike (MS) and a matrix spike duplicate (MSD) was extracted and analyzed in conjunction with sample 10654018. The RPD for Aroclor 1260 was high following the initial analyses of the MS/MSD. Since the percent recovery for Aroclor 1260 was within acceptable QC limits for the corresponding LCS, it was concluded that a lack of sample homogeneity was the cause of the high RPD. No corrective actions were taken.

Metals Analyses

These analyses proceeded without incident of note.

Data Summary Package

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Case Narrative

Client: AMEC, Inc.

Project: Former Custom Plywood Site

Matrix: Sediment

ARI Job No: OW90

Date: July 8, 2009

SVOAs Analyses

These analyses proceeded without incident of note.

PCBs Analyses

A matrix spike (MS) and a matrix spike duplicate (MSD) was extracted and analyzed in conjunction with sample 10654018. The RPD for Aroclor 1260 was high following the initial analyses of the MS/MSD. Since the percent recovery for Aroclor 1260 was within acceptable QC limits for the corresponding LCS, it was concluded that a lack of sample homogeneity was the cause of the high RPD. No corrective actions were taken.

Metals Analyses

These analyses proceeded without incident of note.

SEMIVOLATILE ANALYSIS

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 1

Sample ID: 10654007
SAMPLE

Lab Sample ID: OW90A
LIMS ID: 09-10068
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 05/07/09

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001
Date Sampled: 09/03/08
Date Received: 09/12/08

Date Extracted: 05/01/09
Date Analyzed: 05/06/09 18:13
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 59.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	Phenanthrene	20	17 J
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	31
129-00-0	Pyrene	20	26
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	19 J
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	14 J
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	47.6%	2-Fluorobiphenyl	45.6%
d14-p-Terphenyl	44.4%	d4-1,2-Dichlorobenzene	44.8%
d5-Phenol	50.9%	2-Fluorophenol	53.9%
2,4,6-Tribromophenol	58.7%	d4-2-Chlorophenol	52.3%

ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270 GC/MS

Page 1 of 1

Sample ID: 10654008

SAMPLE

Lab Sample ID: OW90B

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized:

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted: 05/01/09

Date Analyzed: 05/06/09 18:46

Instrument/Analyst: NT4/LJR

GPC Cleanup: Yes

Sample Amount: 25.4 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

Percent Moisture: 59.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	Phenanthrene	20	9.8 J
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	21
129-00-0	Pyrene	20	17 J
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo (a) anthracene	20	< 20 U
117-81-7	bis (2-Ethylhexyl) phthalate	20	< 20 U
218-01-9	Chrysene	20	16 J
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo (b) fluoranthene	20	< 20 U
207-08-9	Benzo (k) fluoranthene	20	< 20 U
50-32-8	Benzo (a) pyrene	20	< 20 U
193-39-5	Indeno (1,2,3-cd) pyrene	20	< 20 U
53-70-3	Dibenz (a,h) anthracene	20	< 20 U
191-24-2	Benzo (g,h,i) perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	59.6%
d14-p-Terphenyl	57.6%	d4-1,2-Dichlorobenzene	57.2%
d5-Phenol	61.6%	2-Fluorophenol	60.3%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	62.9%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654009
SAMPLE

Lab Sample ID: OW90C
 LIMS ID: 09-10070
 Matrix: Sediment
 Data Release Authorized:
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 19:20
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.6 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 55.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	Phenanthrene	20	41
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	64
129-00-0	Pyrene	20	72
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo (a) anthracene	20	32
117-81-7	bis (2-Ethylhexyl) phthalate	20	21
218-01-9	Chrysene	20	42
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo (b) fluoranthene	20	26
207-08-9	Benzo (k) fluoranthene	20	42
50-32-8	Benzo (a) pyrene	20	34
193-39-5	Indeno (1,2,3-cd) pyrene	20	19 J
53-70-3	Dibenz (a,h) anthracene	20	< 20 U
191-24-2	Benzo (g,h,i) perylene	20	24


Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.8%	2-Fluorobiphenyl	71.6%
d14-p-Terphenyl	70.4%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	64.8%	2-Fluorophenol	68.5%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	68.3%

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PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: 10654011
SAMPLE

Lab Sample ID: OW90D
 LIMS ID: 09-10071
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 19:53
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.3 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 50.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	32
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	Phenanthrene	20	14 J
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	22
129-00-0	Pyrene	20	20
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	19 J
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	12 J
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U


Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.4%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	73.2%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	64.0%	2-Fluorophenol	65.3%
2,4,6-Tribromophenol	77.6%	d4-2-Chlorophenol	64.8%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: 10654018
SAMPLE

Lab Sample ID: OW90E
 LIMS ID: 09-10072
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 20:26
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.6 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	Phenanthrene	20	12 J
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	17 J
129-00-0	Pyrene	20	14 J
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	10 J
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U


Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.2%	2-Fluorobiphenyl	61.2%
d14-p-Terphenyl	53.6%	d4-1,2-Dichlorobenzene	57.2%
d5-Phenol	56.3%	2-Fluorophenol	59.2%
2,4,6-Tribromophenol	73.3%	d4-2-Chlorophenol	58.9%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: 10654028
SAMPLE

Lab Sample ID: OW90F
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 20:59
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.7 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 35.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	97	< 97 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	9.9 J
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.4%	2-Fluorobiphenyl	66.4%
d14-p-Terphenyl	62.4%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	58.4%	2-Fluorophenol	60.5%
2,4,6-Tribromophenol	76.5%	d4-2-Chlorophenol	60.3%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: SQ-1 050109
STANDARD REFERENCE

Lab Sample ID: SRM-050109
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: NA
 Date Received: NA

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 17:40
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 18.1 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 40.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	28	33
106-46-7	1,4-Dichlorobenzene	28	< 28 U
100-51-6	Benzyl Alcohol	28	< 28 U
95-50-1	1,2-Dichlorobenzene	28	< 28 U
95-48-7	2-Methylphenol	28	< 28 U
106-44-5	4-Methylphenol	28	25 J
105-67-9	2,4-Dimethylphenol	28	< 28 U
65-85-0	Benzoic Acid	280	220 J
120-82-1	1,2,4-Trichlorobenzene	28	< 28 U
91-20-3	Naphthalene	28	27 J
87-68-3	Hexachlorobutadiene	28	< 28 U
91-57-6	2-Methylnaphthalene	28	27 J
131-11-3	Dimethylphthalate	28	< 28 U
208-96-8	Acenaphthylene	28	< 28 U
83-32-9	Acenaphthene	28	26 J
132-64-9	Dibenzofuran	28	< 28 U
84-66-2	Diethylphthalate	28	< 28 U
86-73-7	Fluorene	28	24 J
86-30-6	N-Nitrosodiphenylamine	28	< 28 U
118-74-1	Hexachlorobenzene	28	< 28 U
87-86-5	Pentachlorophenol	140	160
85-01-8	Phenanthrene	28	41
120-12-7	Anthracene	28	24 J
84-74-2	Di-n-Butylphthalate	28	< 28 U
206-44-0	Fluoranthene	28	30
129-00-0	Pyrene	28	29
85-68-7	Butylbenzylphthalate	28	< 28 U
56-55-3	Benzo (a) anthracene	28	24 J
117-81-7	bis (2-Ethylhexyl) phthalate	28	27 J
218-01-9	Chrysene	28	36
117-84-0	Di-n-Octyl phthalate	28	< 28 U
205-99-2	Benzo (b) fluoranthene	28	22 J
207-08-9	Benzo (k) fluoranthene	28	< 28 U
50-32-8	Benzo (a) pyrene	28	28
193-39-5	Indeno (1,2,3-cd) pyrene	28	< 28 U
53-70-3	Dibenz (a,h) anthracene	28	43
191-24-2	Benzo (g,h,i) perylene	28	44

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	55.2%	2-Fluorobiphenyl	62.4%
d14-p-Terphenyl	67.6%	d4-1,2-Dichlorobenzene	56.8%
d5-Phenol	56.0%	2-Fluorophenol	57.6%
2,4,6-Tribromophenol	65.9%	d4-2-Chlorophenol	57.3%

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT	OUT
10654007	47.6%	45.6%	44.4%	44.8%	50.9%	53.9%	58.7%	52.3%		0
10654008	59.2%	59.6%	57.6%	57.2%	61.6%	60.3%	71.2%	62.9%		0
10654009	62.8%	71.6%	70.4%	66.8%	64.8%	68.5%	80.8%	68.3%		0
10654011	60.4%	70.8%	73.2%	62.8%	64.0%	65.3%	77.6%	64.8%		0
10654018	57.2%	61.2%	53.6%	57.2%	56.3%	59.2%	73.3%	58.9%		0
MB-050109	61.6%	68.4%	79.6%	68.8%	64.3%	64.5%	74.9%	66.7%		0
LCS-050109	62.4%	70.0%	80.4%	70.4%	66.1%	65.9%	77.6%	68.3%		0
SRM-SQ-1	55.2%	62.4%	67.6%	56.8%	56.0%	57.6%	65.9%	57.3%		0
10654028	56.4%	66.4%	62.4%	58.8%	58.4%	60.5%	76.5%	60.3%		0
10654028 MS	59.6%	65.2%	60.0%	61.6%	61.1%	58.4%	74.4%	61.6%		0
10654028 MSD	62.0%	70.8%	64.0%	64.4%	65.3%	60.8%	84.0%	66.4%		0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(37-85)	(29-87)
(FBP) = 2-Fluorobiphenyl	(39-82)	(32-88)
(TPH) = d14-p-Terphenyl	(38-105)	(21-97)
(DCB) = d4-1,2-Dichlorobenzene	(33-79)	(25-82)
(PHL) = d5-Phenol	(40-85)	(29-85)
(2FP) = 2-Fluorophenol	(20-93)	(10-114)
(TBP) = 2,4,6-Tribromophenol	(40-96)	(25-103)
(2CP) = d4-2-Chlorophenol	(41-81)	(30-84)

Prep Method: SW3550B
Log Number Range: 09-10068 to 09-10073

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: 10654028
MS/MSD

Lab Sample ID: OW90F
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: *RB*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted MS/MSD: 05/01/09
 Date Analyzed MS: 05/06/09 21:33
 MSD: 05/06/09 22:06
 Instrument/Analyst MS: NT4/LJR
 MSD: NT4/LJR
 GPC Cleanup: YES

Sample Amount MS: 25.7 g-dry-wt
 MSD: 25.6 g-dry-wt
 Final Extract Volume MS: 0.5 mL
 MSD: 0.5 mL
 Dilution Factor MS: 1.00
 MSD: 1.00
 Percent Moisture: 35.0 %

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 19.5	263	486	54.1%	280	489	57.3%	6.3%
1,4-Dichlorobenzene	< 19.5	282	486	58.0%	302	489	61.8%	6.8%
Benzyl Alcohol	< 19.5	482	972	49.6%	440	978	45.0%	9.1%
1,2-Dichlorobenzene	< 19.5	299	486	61.5%	320	489	65.4%	6.8%
2-Methylphenol	< 19.5	290	486	59.7%	332	489	67.9%	13.5%
4-Methylphenol	< 19.5	566	972	58.2%	601	978	61.5%	6.0%
2,4-Dimethylphenol	< 19.5	283	486	58.2%	310	489	63.4%	9.1%
Benzoic Acid	< 195	640 Q	1460	43.8%	392 Q	1470	26.7%	48.1%
1,2,4-Trichlorobenzene	< 19.5	339	486	69.8%	362	489	74.0%	6.6%
Naphthalene	< 19.5	317	486	65.2%	337	489	68.9%	6.1%
Hexachlorobutadiene	< 19.5	319	486	65.6%	338	489	69.1%	5.8%
2-Methylnaphthalene	< 19.5	309	486	63.6%	333	489	68.1%	7.5%
Dimethylphthalate	< 19.5	291	486	59.9%	316	489	64.6%	8.2%
Acenaphthylene	< 19.5	318	486	65.4%	348	489	71.2%	9.0%
Acenaphthene	< 19.5	314	486	64.6%	344	489	70.3%	9.1%
Dibenzofuran	< 19.5	319	486	65.6%	353	489	72.2%	10.1%
Diethylphthalate	< 19.5	295	486	60.7%	347	489	71.0%	16.2%
Fluorene	< 19.5	327	486	67.3%	360	489	73.6%	9.6%
N-Nitrosodiphenylamine	< 19.5	278	486	57.2%	321	489	65.6%	14.4%
Hexachlorobenzene	< 19.5	342	486	70.4%	368	489	75.3%	7.3%
Pentachlorophenol	< 97.4	369	486	75.9%	407	489	83.2%	9.8%
Phenanthrene	< 19.5	376	486	77.4%	402	489	82.2%	6.7%
Anthracene	< 19.5	306	486	63.0%	338	489	69.1%	9.9%
Di-n-Butylphthalate	< 19.5	306	486	63.0%	334	489	68.3%	8.8%
Fluoranthene	9.9	374	486	74.9%	438	489	87.5%	15.8%
Pyrene	< 19.5	334	486	68.7%	368	489	75.3%	9.7%
Butylbenzylphthalate	< 19.5	321	486	66.0%	345	489	70.6%	7.2%
Benzo(a)anthracene	< 19.5	355	486	73.0%	396	489	81.0%	10.9%
bis(2-Ethylhexyl)phthalate	< 19.5	353	486	72.6%	385	489	78.7%	8.7%
Chrysene	< 19.5	362	486	74.5%	405	489	82.8%	11.2%
Di-n-Octyl phthalate	< 19.5	352	486	72.4%	387	489	79.1%	9.5%
Benzo(b)fluoranthene	< 19.5	348	486	71.6%	433	489	88.5%	21.8%
Benzo(k)fluoranthene	< 19.5	435	486	89.5%	446	489	91.2%	2.5%
Benzo(a)pyrene	< 19.5	338	486	69.5%	380	489	77.7%	11.7%
Indeno(1,2,3-cd)pyrene	< 19.5	293	486	60.3%	317	489	64.8%	7.9%
Dibenz(a,h)anthracene	< 19.5	354	486	72.8%	391	489	80.0%	9.9%
Benzo(g,h,i)perylene	< 19.5	329	486	67.7%	354	489	72.4%	7.3%

Results reported in µg/kg
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654028
MATRIX SPIKE

Lab Sample ID: OW90F
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized:
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 21:33
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.7 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 35.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	19	---
106-46-7	1,4-Dichlorobenzene	19	---
100-51-6	Benzyl Alcohol	19	---
95-50-1	1,2-Dichlorobenzene	19	---
95-48-7	2-Methylphenol	19	---
106-44-5	4-Methylphenol	19	---
105-67-9	2,4-Dimethylphenol	19	---
65-85-0	Benzoic Acid	190	---
120-82-1	1,2,4-Trichlorobenzene	19	---
91-20-3	Naphthalene	19	---
87-68-3	Hexachlorobutadiene	19	---
91-57-6	2-Methylnaphthalene	19	---
131-11-3	Dimethylphthalate	19	---
208-96-8	Acenaphthylene	19	---
83-32-9	Acenaphthene	19	---
132-64-9	Dibenzofuran	19	---
84-66-2	Diethylphthalate	19	---
86-73-7	Fluorene	19	---
86-30-6	N-Nitrosodiphenylamine	19	---
118-74-1	Hexachlorobenzene	19	---
87-86-5	Pentachlorophenol	97	---
85-01-8	Phenanthrene	19	---
120-12-7	Anthracene	19	---
84-74-2	Di-n-Butylphthalate	19	---
206-44-0	Fluoranthene	19	---
129-00-0	Pyrene	19	---
85-68-7	Butylbenzylphthalate	19	---
56-55-3	Benzo(a)anthracene	19	---
117-81-7	bis(2-Ethylhexyl)phthalate	19	---
218-01-9	Chrysene	19	---
117-84-0	Di-n-Octyl phthalate	19	---
205-99-2	Benzo(b)fluoranthene	19	---
207-08-9	Benzo(k)fluoranthene	19	---
50-32-8	Benzo(a)pyrene	19	---
193-39-5	Indeno(1,2,3-cd)pyrene	19	---
53-70-3	Dibenz(a,h)anthracene	19	---
191-24-2	Benzo(g,h,i)perylene	19	---

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.6%	2-Fluorobiphenyl	65.2%
d14-p-Terphenyl	60.0%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	61.1%	2-Fluorophenol	58.4%
2,4,6-Tribromophenol	74.4%	d4-2-Chlorophenol	61.6%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654028
 MATRIX SPIKE DUPLICATE

Lab Sample ID: OW90F
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 22:06
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.6 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 35.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	---
106-46-7	1,4-Dichlorobenzene	20	---
100-51-6	Benzyl Alcohol	20	---
95-50-1	1,2-Dichlorobenzene	20	---
95-48-7	2-Methylphenol	20	---
106-44-5	4-Methylphenol	20	---
105-67-9	2,4-Dimethylphenol	20	---
65-85-0	Benzoic Acid	200	---
120-82-1	1,2,4-Trichlorobenzene	20	---
91-20-3	Naphthalene	20	---
87-68-3	Hexachlorobutadiene	20	---
91-57-6	2-Methylnaphthalene	20	---
131-11-3	Dimethylphthalate	20	---
208-96-8	Acenaphthylene	20	---
83-32-9	Acenaphthene	20	---
132-64-9	Dibenzofuran	20	---
84-66-2	Diethylphthalate	20	---
86-73-7	Fluorene	20	---
86-30-6	N-Nitrosodiphenylamine	20	---
118-74-1	Hexachlorobenzene	20	---
87-86-5	Pentachlorophenol	98	---
85-01-8	Phenanthrene	20	---
120-12-7	Anthracene	20	---
84-74-2	Di-n-Butylphthalate	20	---
206-44-0	Fluoranthene	20	---
129-00-0	Pyrene	20	---
85-68-7	Butylbenzylphthalate	20	---
56-55-3	Benzo (a) anthracene	20	---
117-81-7	bis (2-Ethylhexyl) phthalate	20	---
218-01-9	Chrysene	20	---
117-84-0	Di-n-Octyl phthalate	20	---
205-99-2	Benzo (b) fluoranthene	20	---
207-08-9	Benzo (k) fluoranthene	20	---
50-32-8	Benzo (a) pyrene	20	---
193-39-5	Indeno (1,2,3-cd) pyrene	20	---
53-70-3	Dibenz (a,h) anthracene	20	---
191-24-2	Benzo (g,h,i) perylene	20	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.0%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	64.0%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	65.3%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	84.0%	d4-2-Chlorophenol	66.4%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: LCS-050109
LAB CONTROL

Lab Sample ID: LCS-050109
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 17:07
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: YES

Sample Amount: 25.0 g
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	307	500	61.4%
1,4-Dichlorobenzene	334	500	66.8%
Benzyl Alcohol	557	1000	55.7%
1,2-Dichlorobenzene	348	500	69.6%
2-Methylphenol	327	500	65.4%
4-Methylphenol	640	1000	64.0%
2,4-Dimethylphenol	274	500	54.8%
Benzoic Acid	1030	1500	68.7%
1,2,4-Trichlorobenzene	388	500	77.6%
Naphthalene	351	500	70.2%
Hexachlorobutadiene	366	500	73.2%
2-Methylnaphthalene	340	500	68.0%
Dimethylphthalate	333	500	66.6%
Acenaphthylene	333	500	66.6%
Acenaphthene	338	500	67.6%
Dibenzofuran	341	500	68.2%
Diethylphthalate	325	500	65.0%
Fluorene	348	500	69.6%
N-Nitrosodiphenylamine	321	500	64.2%
Hexachlorobenzene	385	500	77.0%
Pentachlorophenol	325	500	65.0%
Phenanthrene	388	500	77.6%
Anthracene	346	500	69.2%
Di-n-Butylphthalate	354	500	70.8%
Fluoranthene	381	500	76.2%
Pyrene	429	500	85.8%
Butylbenzylphthalate	383	500	76.6%
Benzo(a)anthracene	391	500	78.2%
bis(2-Ethylhexyl)phthalate	406	500	81.2%
Chrysene	406	500	81.2%
Di-n-Octyl phthalate	396	500	79.2%
Benzo(b)fluoranthene	387	500	77.4%
Benzo(k)fluoranthene	442	500	88.4%
Benzo(a)pyrene	362	500	72.4%
Indeno(1,2,3-cd)pyrene	386	500	77.2%
Dibenz(a,h)anthracene	460	500	92.0%
Benzo(g,h,i)perylene	453	500	90.6%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: LCS-050109
 LAB CONTROL

Lab Sample ID: LCS-050109
 LIMS ID: 09-10073
 Matrix: Sediment
 Date Analyzed: 05/06/09 17:07

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001

Analyte	Lab Control	Spike Added	Recovery
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Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.4%
2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	80.4%
d4-1,2-Dichlorobenzene	70.4%
d5-Phenol	66.1%
2-Fluorophenol	65.9%
2,4,6-Tribromophenol	77.6%
d4-2-Chlorophenol	68.3%

Results reported in $\mu\text{g}/\text{kg}$

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

OW90MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No: OW90

Project: FORMER CUSTOM PLYWOO

Lab File ID: OW90MB

Date Extracted: 05/01/09

Instrument ID: NT4

Date Analyzed: 05/06/09

Matrix: SOLID

Time Analyzed: 1634

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	OW90LCSS1	OW90LCSS1	OW90SB	05/06/09
02	SQ-1	OW90SRM1	OW90SRM	05/06/09
03	10654007	OW90A	OW90A	05/06/09
04	10654008	OW90B	OW90B	05/06/09
05	10654009	OW90C	OW90C	05/06/09
06	10654011	OW90D	OW90D	05/06/09
07	10654018	OW90E	OW90E	05/06/09
08	10654028	OW90F	OW90F	05/06/09
09	10654028 MS	OW90FMS	OW90FMS	05/06/09
10	10654028 MSD	OW90FMSD	OW90FMD	05/06/09
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: MB-050109
METHOD BLANK

Lab Sample ID: MB-050109
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: NA
 Date Received: NA

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 16:34
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.0 g
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.6%	2-Fluorobiphenyl	68.4%
d14-p-Terphenyl	79.6%	d4-1,2-Dichlorobenzene	68.8%
d5-Phenol	64.3%	2-Fluorophenol	64.5%
2,4,6-Tribromophenol	74.9%	d4-2-Chlorophenol	66.7%

PCB ANALYSIS

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PSDDA PCB by GC/ECD
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Sample ID: 10654007
SAMPLE

Lab Sample ID: OW90A
 LIMS ID: 09-10068
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 05/08/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/03/08
 Date Received: 09/12/08

Date Extracted: 05/04/09
 Date Analyzed: 05/07/09 01:08
 Instrument/Analyst: ECD5/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
 Final Extract Volume: 5.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: 59.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	75.5%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

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Sample ID: 10654008

SAMPLE

Lab Sample ID: OW90B

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 01:25

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 59.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.0%
Tetrachlorometaxylene	74.0%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

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Sample ID: 10654009

SAMPLE

Lab Sample ID: OW90C

LIMS ID: 09-10070

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 01:42

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 55.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	71.0%
Tetrachlorometaxylene	69.8%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

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Sample ID: 10654011

SAMPLE

Lab Sample ID: OW90D

LIMS ID: 09-10071

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 01:59

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 50.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U


Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.8%
Tetrachlorometaxylene	76.2%

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PSDDA PCB by GC/ECD
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Sample ID: 10654018
SAMPLE

Lab Sample ID: OW90E
LIMS ID: 09-10072
Matrix: Sediment
Data Release Authorized: 
Reported: 05/08/09

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001
Date Sampled: 09/04/08
Date Received: 09/12/08

Date Extracted: 05/04/09
Date Analyzed: 05/07/09 02:16
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U


Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.0%
Tetrachlorometaxylene	74.2%

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PSDDA PCB by GC/ECD
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Sample ID: 10654028
SAMPLE

Lab Sample ID: OW90F
LIMS ID: 09-10073
Matrix: Sediment
Data Release Authorized: 
Reported: 05/08/09

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001
Date Sampled: 09/05/08
Date Received: 09/12/08

Date Extracted: 05/04/09
Date Analyzed: 05/07/09 03:08
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 35.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U


Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	75.0%
Tetrachlorometaxylene	75.2%

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PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: SRM SQ-1
STANDARD REFERENCE

Lab Sample ID: SRM SQ-1
LIMS ID: 09-10072
Matrix: Sediment
Data Release Authorized: 
Reported: 05/08/09

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001
Date Sampled: NA
Date Received: NA

Date Extracted: 05/04/09
Date Analyzed: 05/07/09 00:51
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 15.0 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 40.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	86
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	75.8%
Tetrachlorometaxylene	91.8%

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001

<u>Client ID</u>	<u>DCBP % REC</u>	<u>DCBP LCL-UCL</u>	<u>TCMX % REC</u>	<u>TCMX LCL-UCL</u>	<u>TOT OUT</u>
10654007	76.8%	43-148	75.5%	48-123	0
10654008	76.0%	43-148	74.0%	48-123	0
10654009	71.0%	43-148	69.8%	48-123	0
10654011	77.8%	43-148	76.2%	48-123	0
MB-050409	69.0%	48-119	74.8%	47-110	0
LCS-050409	75.0%	48-119	79.2%	47-110	0
SRM SQ-1	75.8%	43-148	91.8%	48-123	0
10654018	73.0%	43-148	74.2%	48-123	0
10654018 MS	76.5%	43-148	80.2%	48-123	0
10654018 MSD	78.5%	43-148	77.8%	48-123	0
10654028	75.0%	43-148	75.2%	48-123	0

PSDDA Control Limits
Prep Method: SW3550B
Log Number Range: 09-10068 to 09-10073

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: 10654018
MS/MSD

Lab Sample ID: OW90E
LIMS ID: 09-10072
Matrix: Sediment
Data Release Authorized: *B*
Reported: 05/08/09

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001
Date Sampled: 09/04/08
Date Received: 09/12/08

Date Extracted MS/MSD: 05/04/09
Date Analyzed MS: 05/07/09 02:34
MSD: 05/07/09 02:51
Instrument/Analyst MS: ECD5/YZ
MSD: ECD5/YZ

Sample Amount MS: 25.6 g-dry-wt
MSD: 25.5 g-dry-wt
Final Extract Volume MS: 5.0 mL
MSD: 5.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
Percent Moisture: 54.9%


GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 19.8 U	74.4	97.8	76.1%	78.1	97.9	79.8%	4.9%
Aroclor 1260	< 19.8 U	258	97.8	264%	103	97.9	105%	85.9%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
 Page 1 of 1

Sample ID: 10654018
 MATRIX SPIKE

Lab Sample ID: OW90E
 LIMS ID: 09-10072
 Matrix: Sediment
 Data Release Authorized 
 Reported: 05/08/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/04/09
 Date Analyzed: 05/07/09 02:34
 Instrument/Analyst: ECD5/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
 Final Extract Volume: 5.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	---
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	---
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.5%
Tetrachlorometaxylene	80.2%

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
 Page 1 of 1

Sample ID: 10654018
MATRIX SPIKE DUP

Lab Sample ID: OW90E
 LIMS ID: 09-10072
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/08/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/04/09
 Date Analyzed: 05/07/09 02:51
 Instrument/Analyst: ECD5/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
 Final Extract Volume: 5.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	---
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	---
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U


Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.5%
Tetrachlorometaxylene	77.8%

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: LCS-050409
LAB CONTROL

Lab Sample ID: LCS-050409
LIMS ID: 09-10072
Matrix: Sediment
Data Release Authorized: 
Reported: 05/08/09

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001
Date Sampled: NA
Date Received: NA

Date Extracted: 05/04/09
Date Analyzed: 05/07/09 00:34
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	82.8	100	82.8%
Aroclor 1260	92.6	100	92.6%

PCB Surrogate Recovery

Decachlorobiphenyl	75.0%
Tetrachlorometaxylene	79.2%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

4
PCB METHOD BLANK SUMMARY

BLANK NO.

OW90MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOO

Lab Sample ID: OW90MBS1

Lab File ID: 0506B062

Date Extracted: 05/04/09

Matrix: SOLID

Date Analyzed: 05/07/09

Instrument ID: ECD5

Time Analyzed: 0017

GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	OW90LCSS1	OW90LCSS1	05/07/09
02	SQ-1	OW90SRM1	05/07/09
03	10654007	OW90A	05/07/09
04	10654008	OW90B	05/07/09
05	10654009	OW90C	05/07/09
06	10654011	OW90D	05/07/09
07	10654018	OW90E	05/07/09
08	10654018 MS	OW90EMS	05/07/09
09	10654018 MSD	OW90EMSD	05/07/09
10	10654028	OW90F	05/07/09

ALL RUNS ARE DUAL COLUMN

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1


Sample ID: MB-050409

METHOD BLANK

Lab Sample ID: MB-050409

LIMS ID: 09-10072

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: NA

Date Received: NA

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 00:17

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.0 g

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.0%
Tetrachlorometaxylene	74.8%

METALS ANALYSIS

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654007

SAMPLE

Lab Sample ID: OW90A

LIMS ID: 09-10068

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

Percent Total Solids: 39.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.5	1.7	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	38	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.5	44.9	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	5	10	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.7	0.7	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	95	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: 10654007

DUPLICATE

Lab Sample ID: OW90A

LIMS ID: 09-10068

Matrix: Sediment

Data Release Authorized:

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	10	10	0.0%	+/- 10	L
Cadmium	6010B	1.7	1.6	6.1%	+/- 0.5	L
Chromium	6010B	38	37	2.7%	+/- 20%	
Copper	6010B	44.9	43.3	3.6%	+/- 20%	
Lead	6010B	10	9	10.5%	+/- 5	L
Silver	6010B	0.7 U	0.7 U	0.0%	+/- 0.7	L
Zinc	6010B	95	94	1.1%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654007

MATRIX SPIKE

Lab Sample ID: OW90A

LIMS ID: 09-10068

Matrix: Sediment

Data Release Authorized 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	10	490	477	101%	
Cadmium	6010B	1.7	119	119	98.6%	
Chromium	6010B	38	161	119	103%	
Copper	6010B	44.9	160	119	96.7%	
Lead	6010B	10	472	477	96.9%	
Silver	6010B	0.7 U	110	119	92.4%	
Zinc	6010B	95	217	119	103%	

Reported in mg/kg-dry

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654008

SAMPLE

Lab Sample ID: OW90B

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 40.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.5	1.7	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	41	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.5	31.8	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	5	8	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.7	0.7	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	74	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654009

SAMPLE

Lab Sample ID: OW90C

LIMS ID: 09-10070

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 42.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.5	1.3	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	33	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.5	36.0	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	5	40	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.7	0.7	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	89	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654011

SAMPLE

Lab Sample ID: OW90D

LIMS ID: 09-10071

Matrix: Sediment

Data Release Authorized 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 49.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.4	1.3	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	31	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.4	20.6	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	4	5	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.6	0.6	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	60	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
 Page 1 of 1

Sample ID: 10654018
 SAMPLE

Lab Sample ID: OW90E
 LIMS ID: 09-10072
 Matrix: Sediment
 Data Release Authorized *[Signature]*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Percent Total Solids: 47.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.4	1.2	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	26	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.4	17.9	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	4	6	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.6	0.6	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	50	

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654028

SAMPLE

Lab Sample ID: OW90F

LIMS ID: 09-10073

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/05/08

Date Received: 09/12/08

Percent Total Solids: 67.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	7	7	U
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.3	0.4	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	0.7	11.8	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.3	7.6	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	3	3	U
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.4	0.4	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	1	22	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Sample ID: METHOD BLANK

Page 1 of 1

Lab Sample ID: OW90MB


QC Report No: OW90-Geomatrix

LIMS ID: 09-10069

Project: Former Custom Plywood Site

Matrix: Sediment

10654.001

Data Release Authorized: 

Date Sampled: NA

Reported: 05/07/09

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	5	5	U
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	0.5	0.5	U
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.2	0.2	U
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	2	2	U
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.3	0.3	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: OW90LCS

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	206	200	103%	
Cadmium	6010B	50.1	50.0	100%	
Chromium	6010B	49.9	50.0	99.8%	
Copper	6010B	50.7	50.0	101%	
Lead	6010B	202	200	101%	
Silver	6010B	49.7	50.0	99.4%	
Zinc	6010B	48	50	96.0%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: STD REFERENCE
ERA D053540

Lab Sample ID: OW90SRM

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: NA

Date Received: NA

Analyte	Analysis Method	Analysis Date	mg/kg-dry	Certified Value	Advisory Range
Arsenic	6010B	05/06/09	146	132	106-157
Cadmium	6010B	05/06/09	76.4	66.5	54.6-78.4
Chromium	6010B	05/06/09	80.0	72.9	57.8-88.1
Copper	6010B	05/06/09	74.8	68.5	57.0-80.0
Lead	6010B	05/06/09	142	130	106-154
Silver	6010B	05/06/09	113	101	66.9-135
Zinc	6010B	05/06/09	186	177	140-214

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Adam L. Rains
Created: 4/29/09

Worklist: 9324
Analyst: ALR
Comments:

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. OW90A 09-10068 10654007	1.11	13.29	6.03	40.4	NR
2. OW90B 09-10069 10654008	1.16	10.75	5.02	40.3	NR
3. OW90C 09-10070 10654009	1.18	11.55	5.79	44.5	NR
4. OW90D 09-10071 10654011	1.18	11.20	6.11	49.2	NR
5. OW90E 09-10072 10654018	1.16	12.59	6.31	45.1	NR
6. OW90F 09-10073 10654028	1.17	15.76	10.66	65.0	NR

Extractions Total Solids-extts
Data By: Adam L. Rains
Created: 4/29/09

Worklist: 9324
Analyst: ALR
Comments:

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. OW90A 09-10068 10654007	<u>1.11</u>	<u>13.29</u>	<u>6.03</u>		NR
2. OW90B 09-10069 10654008	<u>1.16</u>	<u>10.75</u>	<u>5.02</u>		NR
3. OW90C 09-10070 10654009	<u>1.18</u>	<u>11.55</u>	<u>5.79</u>		NR
4. OW90D 09-10071 10654011	<u>1.18</u>	<u>11.20</u>	<u>6.11</u>		NR
5. OW90E 09-10072 10654018	<u>1.16</u>	<u>12.59</u>	<u>6.31</u>		NR
6. OW90F 09-10073 10654028	<u>1.17</u>	<u>15.76</u>	<u>10.46</u>		NR

Solids Data Entry Report
Date: 05/05/09

Checked by: MH Date: 5/05/09
Data Analyst: KM

Solids Determination performed on 05/04/09 by DM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
OW90	A	10654007	0.981	10.679	4.834	39.73
OW90	B	10654008	0.986	10.568	4.875	40.59
OW90	C	10654009	0.983	10.854	5.128	41.99
OW90	D	10654011	0.987	10.390	5.648	49.57
OW90	E	10654018	0.993	10.503	5.494	47.33
OW90	F	10654028	0.995	10.300	7.253	67.25



Metals Total Solids

Oven in:

Analyst: DM Date: 5-04-09 Time: 1830 Temp: 100°C

Oven out:

Analyst: KM Date: 5-05-09 Time: 1110 Temp: 101°C

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
OX22 A	1.000	10.064	9.197	
OX49 A	0.995	10.684	4.638	
OX90 A	0.981	10.679	4.834	
" B	0.986	10.568	4.875	
" C	0.983	10.854	5.128	
" D	0.987	10.390	5.648	
" E	0.993	10.503	5.494	
" F	0.995	10.300	7.253	
OX29 A	0.987	10.064	6.658	
" B	0.957	10.176	7.069	
" C	0.985	10.298	6.707	
OX28 F	0.961	10.827	5.169	
" G	0.994	10.521	5.136	
" L	1.003	10.280	5.227	
" M	0.975	10.848	5.846	
5-4-09 DM				

Laboratory Data Package

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.



Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for



- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

03/31/09

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1549-3	PCB	20	ACETONE	10/10/09
2#	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1579-3	PEST	02/04/20	ACETONE	09/23/09
4	1576-3	LOW PEST	0.2/0.4/2	ACETONE	07/31/09
5	1580-2	EPH	1500	MECL2	01/29/10
6	1559-2	PCP	12.5/125	ACETONE	11/05/09
7	1589-1	ABN	100	ACETONE	03/09/10
8	1566-1	TBT	2.5	MECL2	12/04/09
9	1567-3	PORE TBT	.125/.25	MECL2	12/04/09
10	1578-3	ABN ACID	100/200	MEOH	10/21/09
11	1591-1	TPHD	15000	ACETONE	03/26/10
12	1583-1	ABN BASE	200	ACETONE	02/05/10
13	1573-2	LOW PCB	2	ACETONE	10/10/09
14	1547-1	LOW ABN ACID	10/20	MEOH	04/10/09
15	1591-3	SIM PNA	15/75	MEOH	08/28/09
16*	1502-2	DIOXANE	100	MEOH	02/26/10
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1591-4	LOW SIM PNA	1.5	ACETONE	08/28/09
19	1574-4	AK103	7500	MECL2	12/02/09
20	1572-2	PNA	100	ACETONE	12/26/09
21	1593-3	SKY/BHT	100	MEOH	03/31/10
22	1570-1	HERB	12.5/12500	MEOH	12/22/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1573-4	LOW ABN	10	ACETONE	08/01/09
25#	1481-1	DIPHENYL	100	MEOH	07/20/08
26*	1545-2	OP-PEST	25	MEOH	02/16/10
27#	1495-1	STEROLS	200	MEOH	12/29/08
28#	1494-1	ADD. PEST	4	ACETONE	01/23/09
29#	1496-3	DECANES	100	MEOH	02/12/09
30#	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

03/31/09

32	1576-2	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	1	ACETONE	07/23/09
50	1571-1	FULL RESIN	250	ACETONE	06/10/09
*=-REVERIFIED		SOLUTION			
#=-PROJECT SPECIFIC					

SURR SOLUTIONS

03/31/09

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1584-5	ABN	100/150	MEOH	02/18/10
B	1572-1	SIM PNA	15/75	MEOH	08/28/09
C	1559-1	SIM ABN	25/37.5	MEOH	03/13/09
D	1573-3	LOW PCB	0.2	ACETONE	07/31/09
E*	1478-1	HERB	62.5	MEOH	09/21/09
F	1574-3	PCP	12.5	ACETONE	01/06/10
G*	1534-1	1,4DIOXANE	100	MEOH	02/26/10
H*	1545-1	OP-PEST	25	MEOH	02/16/10
I	1559-4	LOW S. PNA	1.5	MEOH	08/28/09
J	1566-5	TBT-PORE	0.125	MECL2	12/04/09
K	1538-1	MED PCB	20	ACETONE	07/31/09
L	1584-4	TBT	2.5	MECL2	12/04/09
M	1578-1	EPH	1500	MECL2	12/09/09
N	1538-2	PCB	2	ACETONE	07/31/09
O	1567-4	TPH	450	MECL2	09/24/09
P	1560-3	HCID	2250	MECL2	09/24/09
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	1568-5	PBDE	.25	MEOH	12/11/09
T	*reverified	solution			
U					
V					
W					
X					
Y					
Z					

Semivolatile Analysis
QC Summary Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT	OUT
10654007	47.6%	45.6%	44.4%	44.8%	50.9%	53.9%	58.7%	52.3%		0
10654008	59.2%	59.6%	57.6%	57.2%	61.6%	60.3%	71.2%	62.9%		0
10654009	62.8%	71.6%	70.4%	66.8%	64.8%	68.5%	80.8%	68.3%		0
10654011	60.4%	70.8%	73.2%	62.8%	64.0%	65.3%	77.6%	64.8%		0
10654018	57.2%	61.2%	53.6%	57.2%	56.3%	59.2%	73.3%	58.9%		0
MB-050109	61.6%	68.4%	79.6%	68.8%	64.3%	64.5%	74.9%	66.7%		0
LCS-050109	62.4%	70.0%	80.4%	70.4%	66.1%	65.9%	77.6%	68.3%		0
SRM-SQ-1	55.2%	62.4%	67.6%	56.8%	56.0%	57.6%	65.9%	57.3%		0
10654028	56.4%	66.4%	62.4%	58.8%	58.4%	60.5%	76.5%	60.3%		0
10654028 MS	59.6%	65.2%	60.0%	61.6%	61.1%	58.4%	74.4%	61.6%		0
10654028 MSD	62.0%	70.8%	64.0%	64.4%	65.3%	60.8%	84.0%	66.4%		0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(37-85)	(29-87)
(FBP) = 2-Fluorobiphenyl	(39-82)	(32-88)
(TPH) = d14-p-Terphenyl	(38-105)	(21-97)
(DCB) = d4-1,2-Dichlorobenzene	(33-79)	(25-82)
(PHL) = d5-Phenol	(40-85)	(29-85)
(2FP) = 2-Fluorophenol	(20-93)	(10-114)
(TBP) = 2,4,6-Tribromophenol	(40-96)	(25-103)
(2CP) = d4-2-Chlorophenol	(41-81)	(30-84)

Prep Method: SW3550B
Log Number Range: 09-10068 to 09-10073

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654028
MS/MSD

Lab Sample ID: OW90F
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted MS/MSD: 05/01/09
 Date Analyzed MS: 05/06/09 21:33
 MSD: 05/06/09 22:06
 Instrument/Analyst MS: NT4/LJR
 MSD: NT4/LJR
 GPC Cleanup: YES


Sample Amount MS: 25.7 g-dry-wt
 MSD: 25.6 g-dry-wt
 Final Extract Volume MS: 0.5 mL
 MSD: 0.5 mL
 Dilution Factor MS: 1.00
 MSD: 1.00
 Percent Moisture: 35.0 %

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 19.5	263	486	54.1%	280	489	57.3%	6.3%
1,4-Dichlorobenzene	< 19.5	282	486	58.0%	302	489	61.8%	6.8%
Benzyl Alcohol	< 19.5	482	972	49.6%	440	978	45.0%	9.1%
1,2-Dichlorobenzene	< 19.5	299	486	61.5%	320	489	65.4%	6.8%
2-Methylphenol	< 19.5	290	486	59.7%	332	489	67.9%	13.5%
4-Methylphenol	< 19.5	566	972	58.2%	601	978	61.5%	6.0%
2,4-Dimethylphenol	< 19.5	283	486	58.2%	310	489	63.4%	9.1%
Benzoic Acid	< 19.5	640 Q	1460	43.8%	392 Q	1470	26.7%	48.1%
1,2,4-Trichlorobenzene	< 19.5	339	486	69.8%	362	489	74.0%	6.6%
Naphthalene	< 19.5	317	486	65.2%	337	489	68.9%	6.1%
Hexachlorobutadiene	< 19.5	319	486	65.6%	338	489	69.1%	5.8%
2-Methylnaphthalene	< 19.5	309	486	63.6%	333	489	68.1%	7.5%
Dimethylphthalate	< 19.5	291	486	59.9%	316	489	64.6%	8.2%
Acenaphthylene	< 19.5	318	486	65.4%	348	489	71.2%	9.0%
Acenaphthene	< 19.5	314	486	64.6%	344	489	70.3%	9.1%
Dibenzofuran	< 19.5	319	486	65.6%	353	489	72.2%	10.1%
Diethylphthalate	< 19.5	295	486	60.7%	347	489	71.0%	16.2%
Fluorene	< 19.5	327	486	67.3%	360	489	73.6%	9.6%
N-Nitrosodiphenylamine	< 19.5	278	486	57.2%	321	489	65.6%	14.4%
Hexachlorobenzene	< 19.5	342	486	70.4%	368	489	75.3%	7.3%
Pentachlorophenol	< 97.4	369	486	75.9%	407	489	83.2%	9.8%
Phenanthrene	< 19.5	376	486	77.4%	402	489	82.2%	6.7%
Anthracene	< 19.5	306	486	63.0%	338	489	69.1%	9.9%
Di-n-Butylphthalate	< 19.5	306	486	63.0%	334	489	68.3%	8.8%
Fluoranthene	9.9	374	486	74.9%	438	489	87.5%	15.8%
Pyrene	< 19.5	334	486	68.7%	368	489	75.3%	9.7%
Butylbenzylphthalate	< 19.5	321	486	66.0%	345	489	70.6%	7.2%
Benzo(a)anthracene	< 19.5	355	486	73.0%	396	489	81.0%	10.9%
bis(2-Ethylhexyl)phthalate	< 19.5	353	486	72.6%	385	489	78.7%	8.7%
Chrysene	< 19.5	362	486	74.5%	405	489	82.8%	11.2%
Di-n-Octyl phthalate	< 19.5	352	486	72.4%	387	489	79.1%	9.5%
Benzo(b)fluoranthene	< 19.5	348	486	71.6%	433	489	88.5%	21.8%
Benzo(k)fluoranthene	< 19.5	435	486	89.5%	446	489	91.2%	2.5%
Benzo(a)pyrene	< 19.5	338	486	69.5%	380	489	77.7%	11.7%
Indeno(1,2,3-cd)pyrene	< 19.5	293	486	60.3%	317	489	64.8%	7.9%
Dibenz(a,h)anthracene	< 19.5	354	486	72.8%	391	489	80.0%	9.9%
Benzo(g,h,i)perylene	< 19.5	329	486	67.7%	354	489	72.4%	7.3%

Results reported in µg/kg
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 2

Sample ID: LCS-050109
LAB CONTROL

Lab Sample ID: LCS-050109
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 17:07
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: YES

Sample Amount: 25.0 g
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	307	500	61.4%
1,4-Dichlorobenzene	334	500	66.8%
Benzyl Alcohol	557	1000	55.7%
1,2-Dichlorobenzene	348	500	69.6%
2-Methylphenol	327	500	65.4%
4-Methylphenol	640	1000	64.0%
2,4-Dimethylphenol	274	500	54.8%
Benzoic Acid	1030	1500	68.7%
1,2,4-Trichlorobenzene	388	500	77.6%
Naphthalene	351	500	70.2%
Hexachlorobutadiene	366	500	73.2%
2-Methylnaphthalene	340	500	68.0%
Dimethylphthalate	333	500	66.6%
Acenaphthylene	333	500	66.6%
Acenaphthene	338	500	67.6%
Dibenzofuran	341	500	68.2%
Diethylphthalate	325	500	65.0%
Fluorene	348	500	69.6%
N-Nitrosodiphenylamine	321	500	64.2%
Hexachlorobenzene	385	500	77.0%
Pentachlorophenol	325	500	65.0%
Phenanthrene	388	500	77.6%
Anthracene	346	500	69.2%
Di-n-Butylphthalate	354	500	70.8%
Fluoranthene	381	500	76.2%
Pyrene	429	500	85.8%
Butylbenzylphthalate	383	500	76.6%
Benzo(a)anthracene	391	500	78.2%
bis(2-Ethylhexyl)phthalate	406	500	81.2%
Chrysene	406	500	81.2%
Di-n-Octyl phthalate	396	500	79.2%
Benzo(b)fluoranthene	387	500	77.4%
Benzo(k)fluoranthene	442	500	88.4%
Benzo(a)pyrene	362	500	72.4%
Indeno(1,2,3-cd)pyrene	386	500	77.2%
Dibenz(a,h)anthracene	460	500	92.0%
Benzo(g,h,i)perylene	453	500	90.6%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 2 of 2

Sample ID: LCS-050109
LAB CONTROL

Lab Sample ID: LCS-050109
 LIMS ID: 09-10073
 Matrix: Sediment
 Date Analyzed: 05/06/09 17:07

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001

Analyte	Lab Control	Spike Added	Recovery
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Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.4%
2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	80.4%
d4-1,2-Dichlorobenzene	70.4%
d5-Phenol	66.1%
2-Fluorophenol	65.9%
2,4,6-Tribromophenol	77.6%
d4-2-Chlorophenol	68.3%

Results reported in $\mu\text{g}/\text{kg}$

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

OW90MBS1

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: OW90
Lab File ID: OW90MB
Instrument ID: NT4
Matrix: SOLID

Client: GEOMATRIX
Project: FORMER CUSTOM PLYWOO
Date Extracted: 05/01/09
Date Analyzed: 05/06/09
Time Analyzed: 1634

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	OW90LCSS1	OW90LCSS1	OW90SB	05/06/09
02	SQ-1	OW90SRM1	OW90SRM	05/06/09
03	10654007	OW90A	OW90A	05/06/09
04	10654008	OW90B	OW90B	05/06/09
05	10654009	OW90C	OW90C	05/06/09
06	10654011	OW90D	OW90D	05/06/09
07	10654018	OW90E	OW90E	05/06/09
08	10654028	OW90F	OW90F	05/06/09
09	10654028 MS	OW90FMS	OW90FMS	05/06/09
10	10654028 MSD	OW90FMSD	OW90FMD	05/06/09
11				
12				
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COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

Instrument ID: NT4

Project: FORMER CUSTOM PLYWOO

DFTPP Injection Date: 04/08/09

DFTPP Injection Time: 1700

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	50.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	61.8
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	25.0 - 75.0% of mass 198	61.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 0.75% of mass 198	2.92
441	Present, but less than mass 443	13.1
442	40.0 - 110.0% of mass 198	90.2
443	15.0 - 24.0% of mass 442	17.4 (19.3)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN 25	ABN 25	0250408	04/08/09	1700
02	ABN 80	ABN 80	0800408	04/08/09	1734
03	ABN 1	ABN 1	0010408	04/08/09	1809
04	ABN 40	ABN 40	0400408	04/08/09	1843
05	ABN 5	ABN 5	0050408	04/08/09	1918
06	ABN 10	ABN 10	0100408	04/08/09	1952
07					
08					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

Instrument ID: NT4

Project: FORMER CUSTOM PLYWOO

DFTPP Injection Date: 05/06/09

DFTPP Injection Time: 1454

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	45.8
68	Less than 2.0% of mass 69	0.4 (0.7)1
69	Mass 69 relative abundance	51.9
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	56.4
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.9
365	Greater than 0.75% of mass 198	2.80
441	Present, but less than mass 443	12.0
442	40.0 - 110.0% of mass 198	87.5
443	15.0 - 24.0% of mass 442	16.9 (19.3)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC0506	05/06/09	1454
02	OW90MBS1	OW90MBS1	OW90MB	05/06/09	1634
03	OW90LCSS1	OW90LCSS1	OW90SB	05/06/09	1707
04	SQ-1	OW90SRM1	OW90SRM	05/06/09	1740
05	10654007	OW90A	OW90A	05/06/09	1813
06	10654008	OW90B	OW90B	05/06/09	1846
07	10654009	OW90C	OW90C	05/06/09	1920
08	10654011	OW90D	OW90D	05/06/09	1953
09	10654018	OW90E	OW90E	05/06/09	2026
10	10654028	OW90F	OW90F	05/06/09	2059
11	10654028 MS	OW90FMS	OW90FMS	05/06/09	2133
12	10654028 MSD	OW90FMSD	OW90FMD	05/06/09	2206
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: OW90
Ical Midpoint ID: 0250408
Instrument ID: NT4

Client: GEOMATRIX
Project: FORMER CUSTOM PLYWOO
Ical Date: 04/08/09
Cont. Cal Date: 05/06/09

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	172459	8.35	608124	10.40	305977	13.26
UPPER LIMIT	344918	8.85	1216248	10.90	611954	13.76
LOWER LIMIT	86230	7.85	304062	9.90	152988	12.76
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
00 CC0506	168850	5.98	548444	8.07	273980	10.86
01 OW90MBS1	151504	5.97	520206	8.07	264836	10.86
02 OW90LCSS1	160972	5.97	537102	8.07	271080	10.87
03 SQ-1	159770	5.97	534947	8.07	259219	10.87
04 10654007	155415	5.97	523435	8.07	254243	10.86
05 10654008	156014	5.98	519289	8.07	255409	10.86
06 10654009	149954	5.97	513855	8.06	251835	10.86
07 10654011	138642	5.97	471676	8.07	232482	10.86
08 10654018	151463	5.97	501792	8.07	244281	10.86
09 10654028	154078	5.97	507782	8.06	246068	10.86
10 10654028 MS	150691	5.97	494696	8.07	247070	10.86
11 10654028 MSD	142757	5.97	465117	8.07	227089	10.86
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: OW90
Ical Midpoint ID: OW90FMD
Instrument ID: NT4

Client: GEOMATRIX
Project: FORMER CUSTOM PLYWOO
Ical Date: 04/08/09
Cont. Cal Date: 05/06/09

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	428646	15.65	348476	19.98	426588	22.15
UPPER LIMIT	857292	16.15	696952	20.48	853176	22.65
LOWER LIMIT	214323	15.15	174238	19.48	213294	21.65
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
00 CC0506	388590	13.14	259142	17.31	296622	19.38
01 OW90MBS1	378654	13.14	289743	17.29	291436	19.37
02 OW90LCSS1	372700	13.14	268677	17.30	307436	19.38
03 SQ-1	344118	13.14	268952	17.30	298781	19.38
04 10654007	347046	13.14	267748	17.30	291066	19.38
05 10654008	346507	13.14	283901	17.30	314948	19.37
06 10654009	356737	13.14	280498	17.30	309342	19.37
07 10654011	323919	13.14	245534	17.30	261074	19.37
08 10654018	342914	13.14	331078	17.30	354297	19.38
09 10654028	343322	13.14	309768	17.31	338013	19.38
10 10654028 MS	347713	13.14	325780	17.31	348466	19.38
11 10654028 MSD	328508	13.14	324037	17.31	338353	19.38
12						
13						
14						
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17						
18						
19						
20						
21						
22						

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No: OW90

Project: FORMER CUSTOM PLYWOO

Ical Midpoint ID: OW90FMD

Ical Date: 04/08/09

Instrument ID: NT4

Cont. Cal Date: 05/06/09

	IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	674761	21.10				
UPPER LIMIT	1349522	21.60				
LOWER LIMIT	337380	20.60				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
00 CC0506	458352	18.67				
01 OW90MBS1	515291	18.66				
02 OW90LCSS1	476343	18.66				
03 SQ-1	455160	18.67				
04 10654007	495026	18.66				
05 10654008	518435	18.66				
06 10654009	503798	18.66				
07 10654011	446062	18.66				
08 10654018	612584	18.66				
09 10654028	551899	18.66				
10 10654028 MS	570421	18.67				
11 10654028 MSD	565483	18.67				
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

Semivolatile Analysis
Sample Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001


ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654007
SAMPLE

Lab Sample ID: OW90A
 LIMS ID: 09-10068
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/03/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 18:13
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.1 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 59.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	Phenanthrene	20	17 J
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	31
129-00-0	Pyrene	20	26
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	19 J
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	14 J
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	47.6%	2-Fluorobiphenyl	45.6%
d14-p-Terphenyl	44.4%	d4-1,2-Dichlorobenzene	44.8%
d5-Phenol	50.9%	2-Fluorophenol	53.9%
2,4,6-Tribromophenol	58.7%	d4-2-Chlorophenol	52.3%

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090506.b/ow90a.d
 Lab Smp Id: OW90A Client Smp ID: 10654007
 Inj Date : 06-MAY-2009 18:13
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90A
 Misc Info : 09-10068
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:50 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Compound Sublist: PSSDA.sub

LJR
5/7/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	62.20000	Weight of sample extracted (g)
M	59.60000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112		3.676	3.619	(0.615)	256526	20.1976	401.9
\$ 2 Phenol-d5	99		5.762	5.734	(0.965)	324346	18.1250	380.5
3 Phenol	94					Compound Not Detected.		
\$ 5 2-Chlorophenol-d4	132		5.691	5.676	(0.953)	199562	19.6045	390.1
4 Bis(2-Chloroethyl)ether	93					Compound Not Detected.		
6 2-Chlorophenol	128					Compound Not Detected.		
7 1,3-Dichlorobenzene	146					Compound Not Detected.		
* 8 1,4-Dichlorobenzene-d4	152		5.973	5.975	(1.000)	155415	20.0000	
9 1,4-Dichlorobenzene	146					Compound Not Detected.		
\$ 10 1,2-Dichlorobenzene-d4	152		6.279	6.281	(1.051)	81115	11.2444	223.7
12 1,2-Dichlorobenzene	146					Compound Not Detected.		
11 Benzyl alcohol	108					Compound Not Detected.		
14 2,2'-oxybis(1-Chloropropane)	45					Compound Not Detected.		
13 2-Methylphenol	108					Compound Not Detected.		
17 Hexachloroethane	117					Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
15 4-Methylphenol	108				Compound Not Detected.		
\$ 18 Nitrobenzene-d5	82	6.972	6.980	(0.864)	171224	11.9352	237.5
19 Nitrobenzene	77				Compound Not Detected.		
20 Isophorone	82				Compound Not Detected.		
21 2-Nitrophenol	139				Compound Not Detected.		
22 2,4-Dimethylphenol	107				Compound Not Detected.		
23 Bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
24 Benzoic acid	105				Compound Not Detected.		
25 2,4-Dichlorophenol	162				Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
* 27 Naphthalene-d8	136	8.065	8.073	(1.000)	523435	20.0000	
28 Naphthalene	128				Compound Not Detected.		
29 4-Chloroaniline	127				Compound Not Detected.		
30 Hexachlorobutadiene	225				Compound Not Detected.		
31 4-Chloro-3-methylphenol	107				Compound Not Detected.		
32 2-Methylnaphthalene	141				Compound Not Detected.		
33 Hexachlorocyclopentadiene	237				Compound Not Detected.		
34 2,4,6-Trichlorophenol	196				Compound Not Detected.		
35 2,4,5-Trichlorophenol	196				Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172	9.887	9.894	(0.910)	213702	11.3687	226.2
37 2-Chloronaphthalene	162				Compound Not Detected.		
38 2-Nitroaniline	65				Compound Not Detected.		
39 Dimethylphthalate	163				Compound Not Detected.		
40 Acenaphthylene	152				Compound Not Detected.		
41 2,6-Dinitrotoluene	165				Compound Not Detected.		
* 42 Acenaphthene-d10	164	10.862	10.864	(1.000)	254243	20.0000	
43 3-Nitroaniline	138				Compound Not Detected.		
44 Acenaphthene	153				Compound Not Detected.		
45 2,4-Dinitrophenol	184				Compound Not Detected.		
46 Dibenzofuran	168				Compound Not Detected.		
47 4-Nitrophenol	109				Compound Not Detected.		
48 2,4-Dinitrotoluene	165				Compound Not Detected.		
50 Diethylphthalate	149				Compound Not Detected.		
49 Fluorene	166				Compound Not Detected.		
51 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
52 4-Nitroaniline	138				Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
54 N-Nitrosodiphenylamine	169				Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330	12.119	12.133	(1.116)	48091	21.9959	437.7
56 4-Bromophenyl-phenylether	248				Compound Not Detected.		
57 Hexachlorobenzene	284				Compound Not Detected.		
58 Pentachlorophenol	266				Compound Not Detected.		
* 59 Phenanthrene-d10	188	13.136	13.143	(1.000)	347046	20.0000	
60 Phenanthrene	178	13.171	13.179	(1.003)	19265	0.85052	16.92 (M)
61 Anthracene	178				Compound Not Detected.		
62 Carbazole	167				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149				Compound Not Detected.		
64 Fluoranthene	202	15.028	15.041	(1.144)	34373	1.53622	30.57
65 Pyrene	202	15.351	15.364	(0.888)	28600	1.33121	26.49
\$ 66 Terphenyl-d14	244	15.768	15.776	(0.912)	144520	11.0755	220.4
67 Butylbenzylphthalate	149				Compound Not Detected.		
68 Benzo(a)anthracene	228				Compound Not Detected.		
* 69 Chrysene-d12	240	17.296	17.309	(1.000)	267748	20.0000	
70 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
71 Chrysene	228	17.325	17.344	(1.002)	17858	0.95247	LDL 18.95
72 bis(2-Ethylhexyl)phthalate	149				Compound Not Detected.		
* 134 Di-n-octylphthalate-d4	153	18.665	18.672	(1.000)	495026	20.0000	
73 Di-n-octylphthalate	149				Compound Not Detected.		
74 Benzo(b)fluoranthene	252				Compound Not Detected.		
75 Benzo(k)fluoranthene	252	18.882	18.919	(0.975)	13674	0.68184	LDL 13.57(M)
76 Benzo(a)pyrene	252				Compound Not Detected.		
* 77 Perylene-d12	264	19.375	19.383	(1.000)	291066	20.0000	
78 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
80 Benzo(g,h,i)perylene	276				Compound Not Detected.		
90 N-Nitrosodimethylamine	74				Compound Not Detected.		
91 Aniline	93				Compound Not Detected.		
93 Benzidine	184				Compound Not Detected.		
103 Pyridine	79				Compound Not Detected.		
105 1-methylnaphthalene	141				Compound Not Detected.		
111 Azobenzene (1,2-DP-Hydrazine)	77				Compound Not Detected.		

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90a.d
 Lab Smp Id: OW90A
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10068

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: 10654007
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	155415	-9.88
27 Naphthalene-d8	608124	304062	1216248	523435	-13.93
42 Acenaphthene-d10	305977	152988	611954	254243	-16.91
59 Phenanthrene-d10	428646	214323	857292	347046	-19.04
69 Chrysene-d12	348476	174238	696952	267748	-23.17
134 Di-n-octylphthala	674761	337380	1349522	495026	-26.64
77 Perylene-d12	426588	213294	853176	291066	-31.77

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.03
27 Naphthalene-d8	8.07	7.57	8.57	8.07	-0.10
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	-0.02
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	-0.06
69 Chrysene-d12	17.31	16.81	17.81	17.30	-0.08
134 Di-n-octylphthala	18.67	18.17	19.17	18.66	-0.04
77 Perylene-d12	19.38	18.88	19.88	19.38	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix
 Sample Matrix: SOLID
 Lab Smp Id: OW90A
 Level: LOW
 Data Type: MS DATA
 SpikeList File: PSDDALCS.spk
 Sublist File: PSDDA.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10068

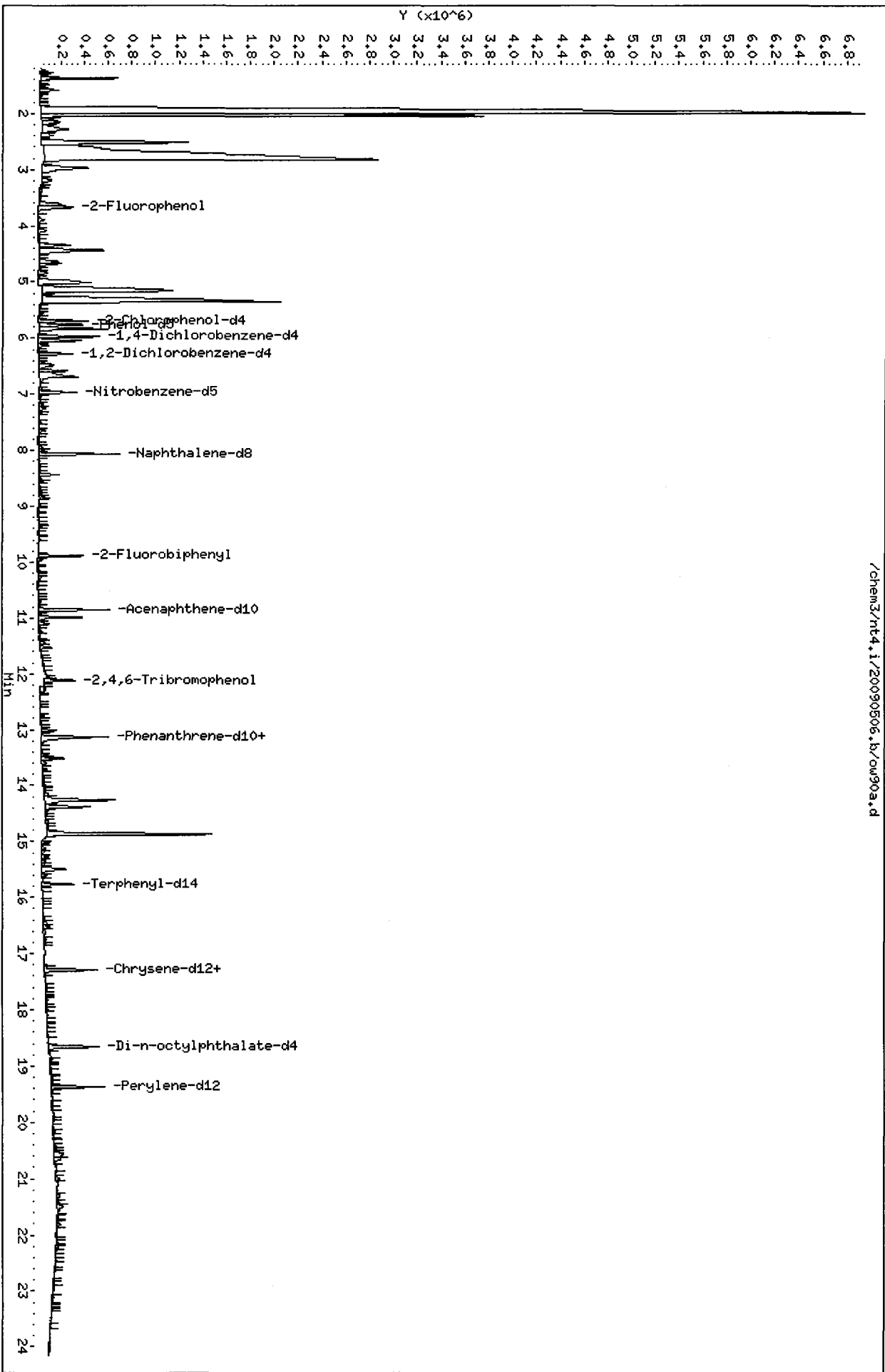
Client SDG: OW90
 Fraction: SV
 Client Smp ID: 10654007
 Operator: LJR/VTS
 SampleType: SAMPLE
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	746.2	401.9	53.86	10-114
\$ 2 Phenol-d5	746.2	380.5	51.00	29-85
\$ 5 2-Chlorophenol-d4	746.2	390.1	52.28	30-84
\$ 10 1,2-Dichlorobenzen	497.4	223.7	44.98	25-82
\$ 18 Nitrobenzene-d5	497.4	237.5	47.74	29-87
\$ 36 2-Fluorobiphenyl	497.4	226.2	45.47	32-88
\$ 55 2,4,6-Tribromophen	746.2	437.7	58.66	25-103
\$ 66 Terphenyl-d14	497.4	220.4	44.30	21-97

Data File: /chem3/nt4.i/20090506.b/cw90a.d
Date : 06-MAY-2009 18:13
Client ID: 10654007
Sample Info: OM90A
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: LJR/VTS
Column diameter: 0.32

/chem3/nt4.i/20090506.b/cw90a.d



Date : 06-MAY-2009 18:13

Client ID: 10654007

Instrument: nt4.i

Sample Info: OW90A

Volume Injected (uL): 1.0

Operator: LJR/VTS

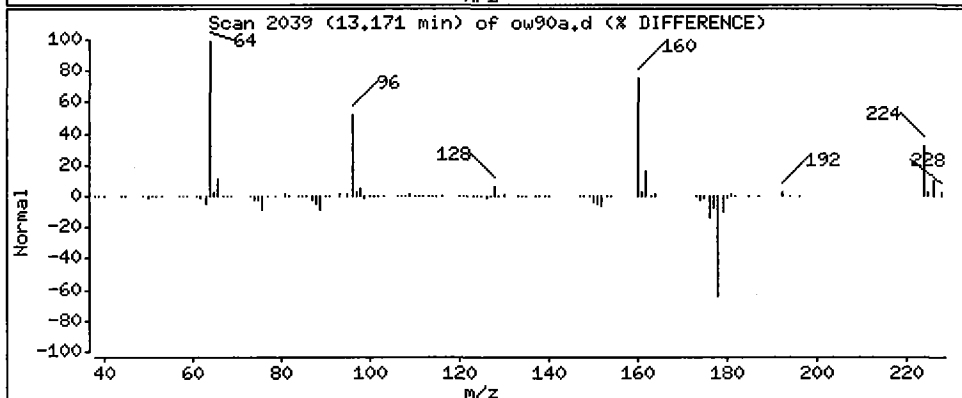
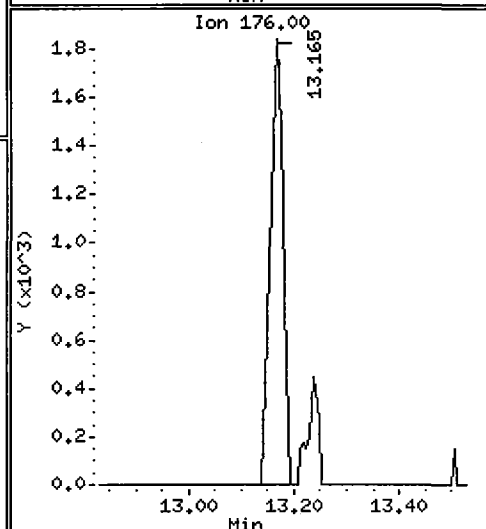
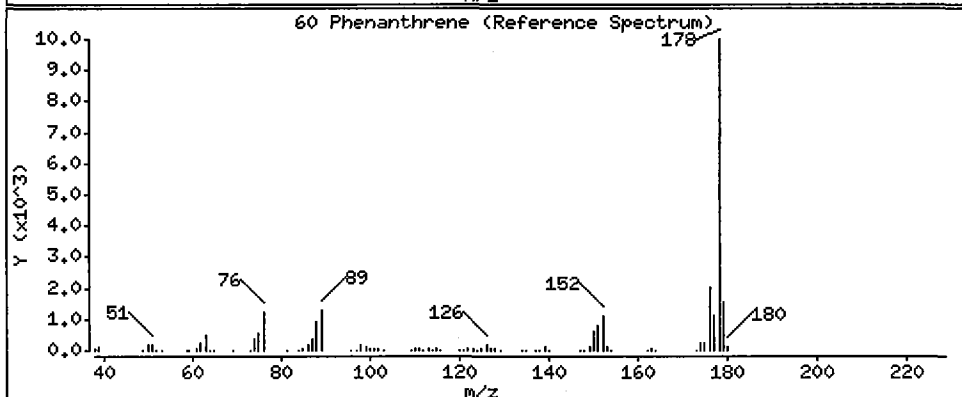
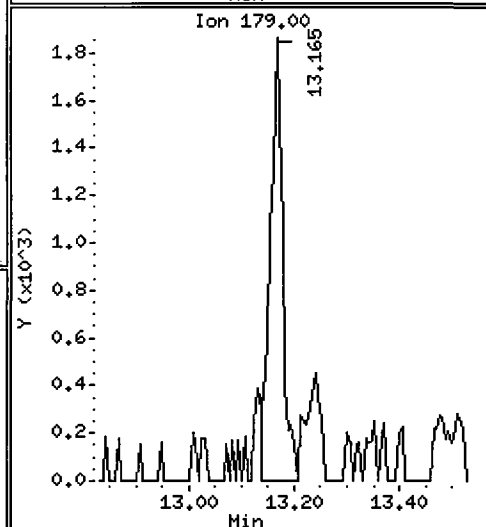
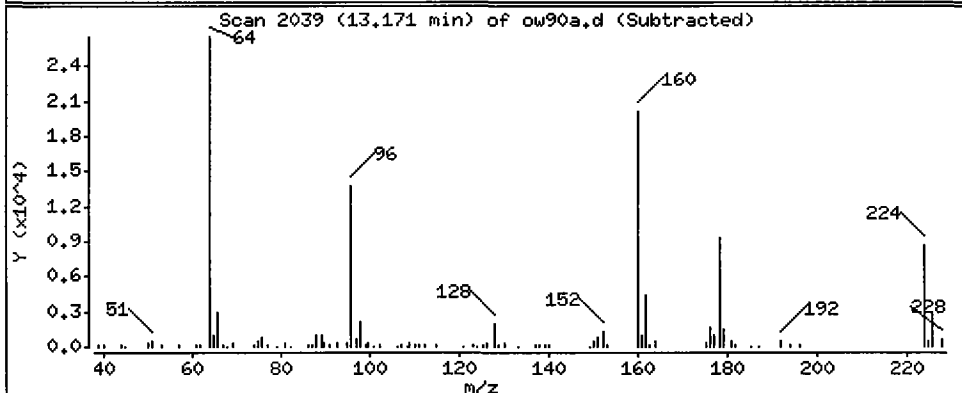
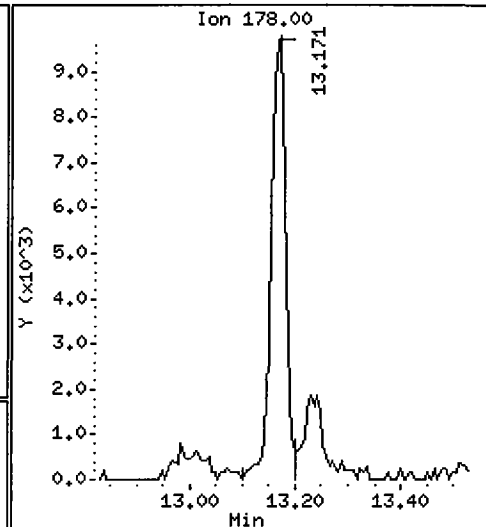
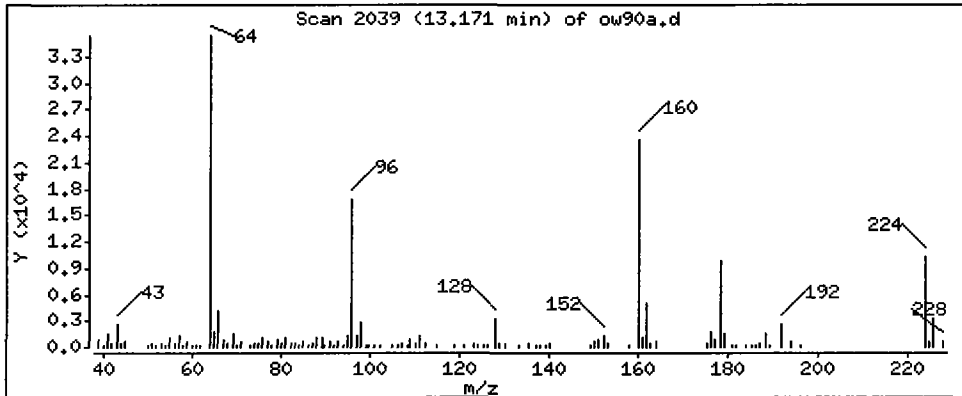
Column phase: ZB-5

Column diameter: 0.32

JLR

60 Phenanthrene

Concentration: 16.92 ug/kg



Date : 06-MAY-2009 18:13

Client ID: 10654007

Instrument: nt4.i

Sample Info: 0W90A

Volume Injected (uL): 1.0

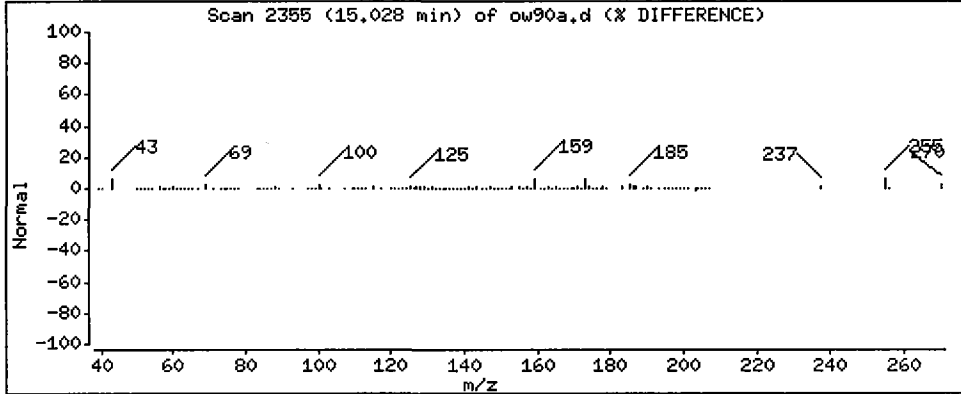
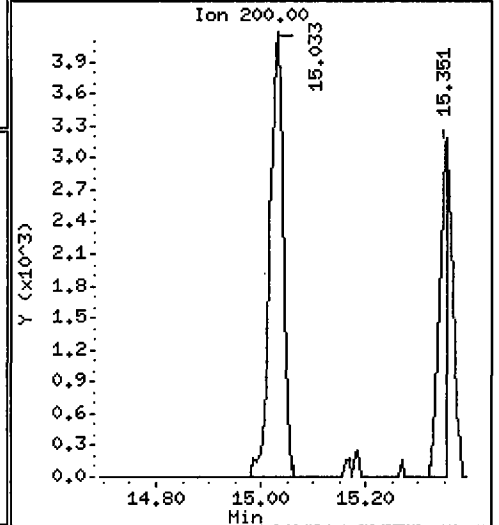
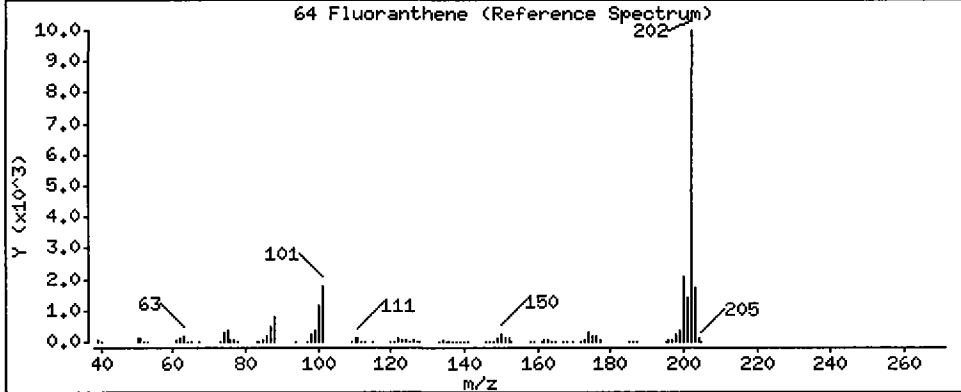
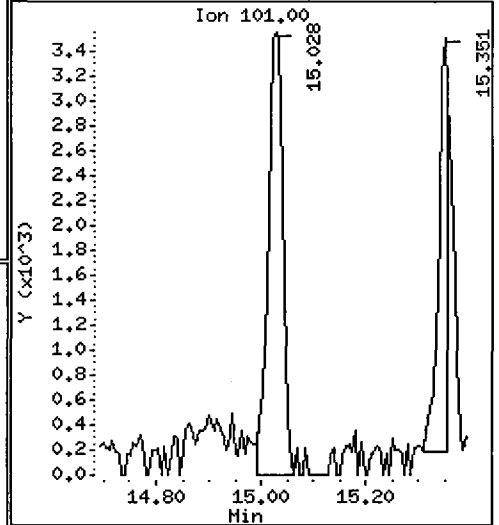
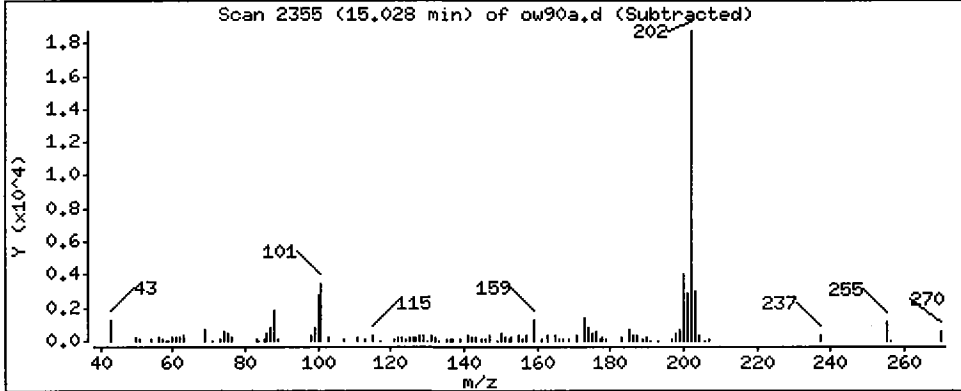
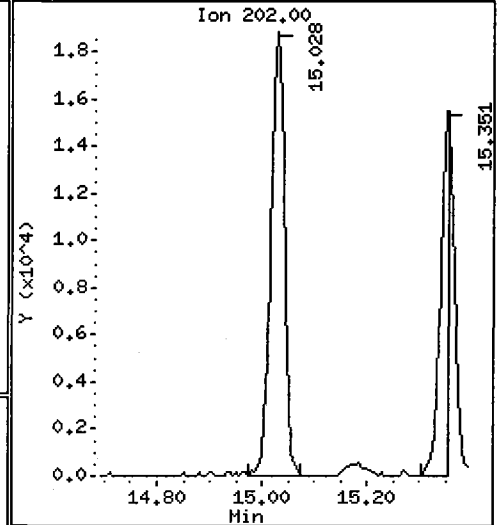
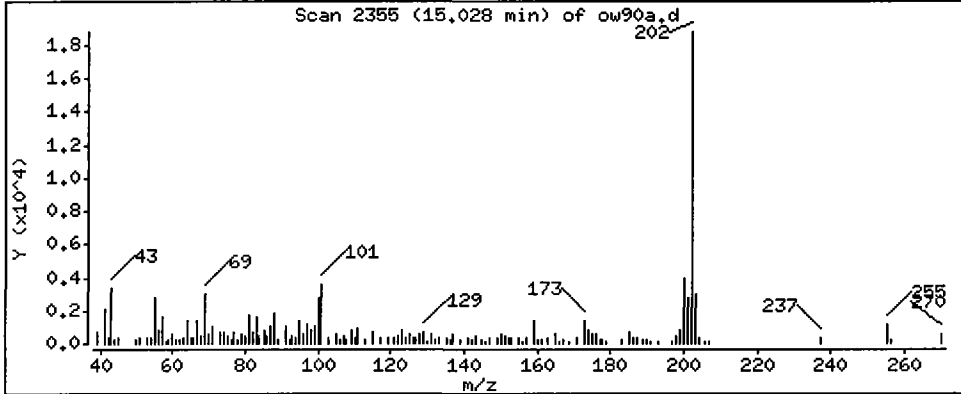
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

64 Fluoranthene

Concentration: 30.57 ug/kg



Date : 06-MAY-2009 18:13

Client ID: 10654007

Instrument: nt4.i

Sample Info: OW90A

Volume Injected (uL): 1.0

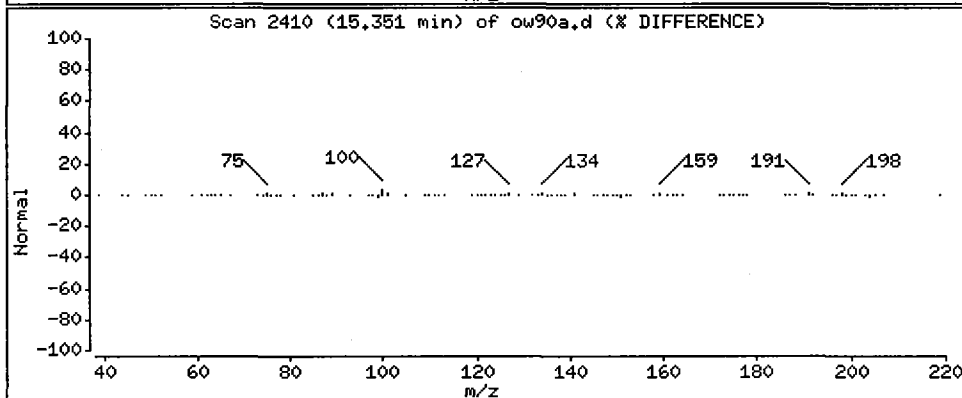
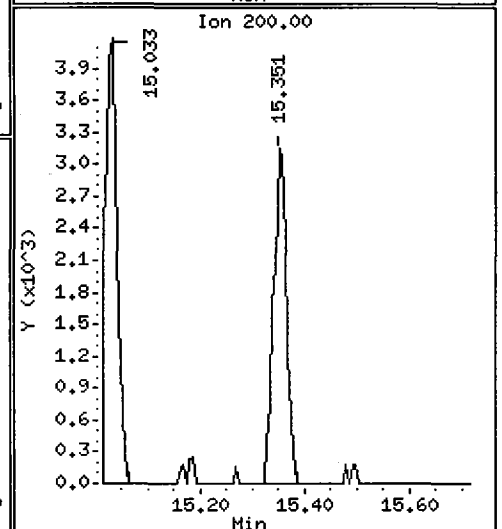
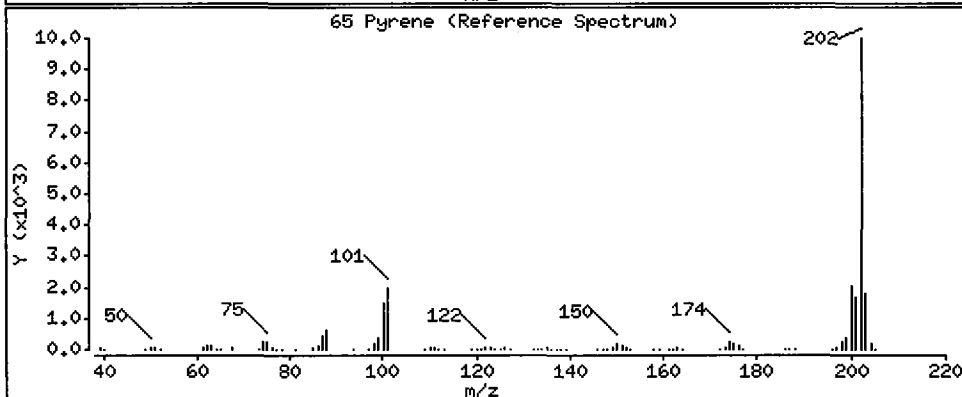
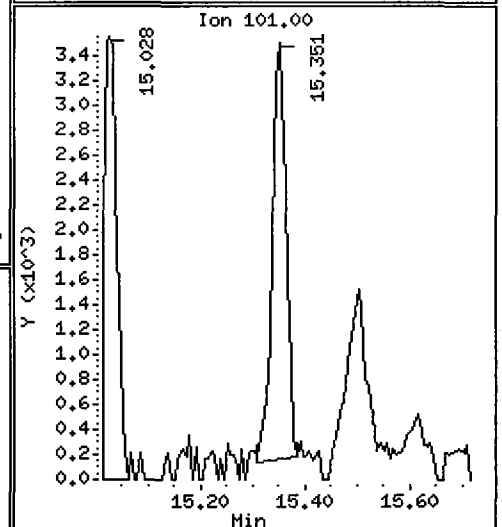
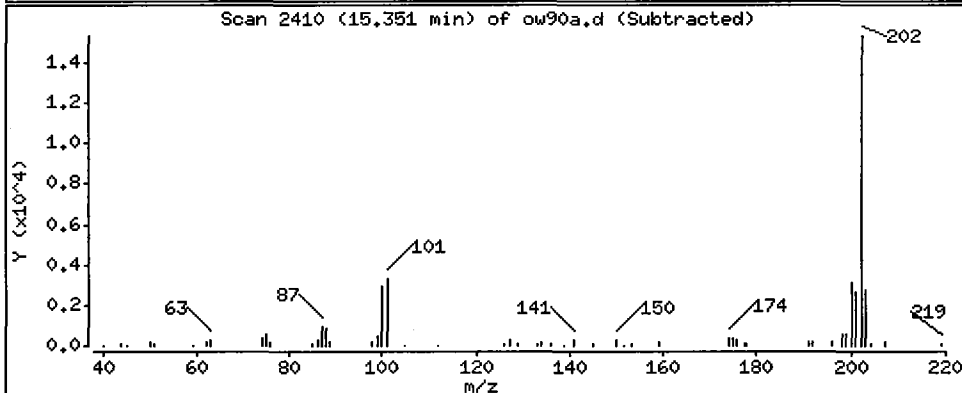
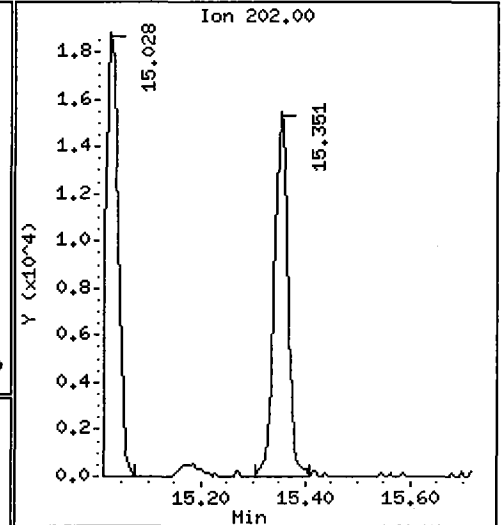
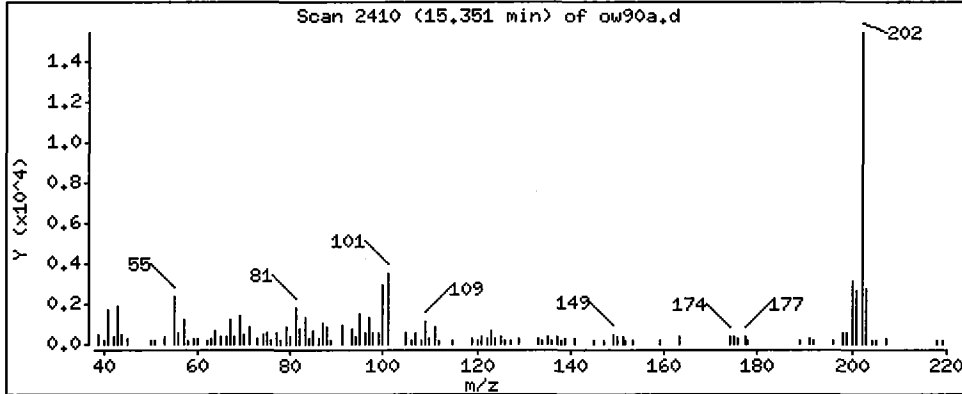
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

65 Pyrene

Concentration: 26.49 ug/kg



Date : 06-MAY-2009 18:13

Client ID: 10654007

Instrument: nt4.i

Sample Info: OW90A

Volume Injected (uL): 1.0

Operator: LJR/VTS

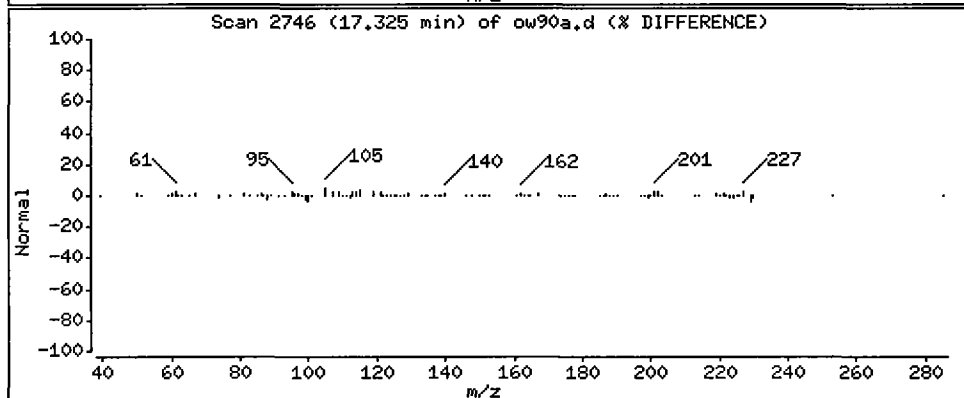
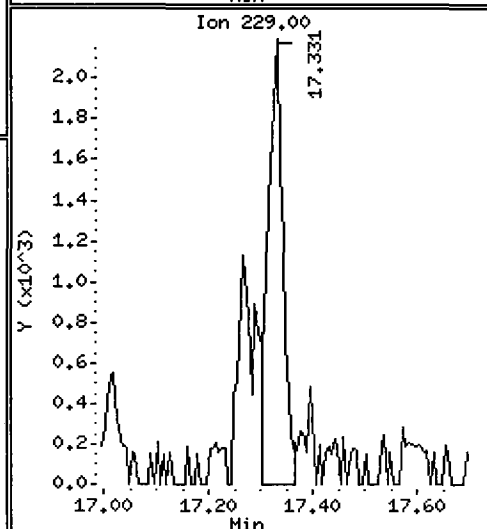
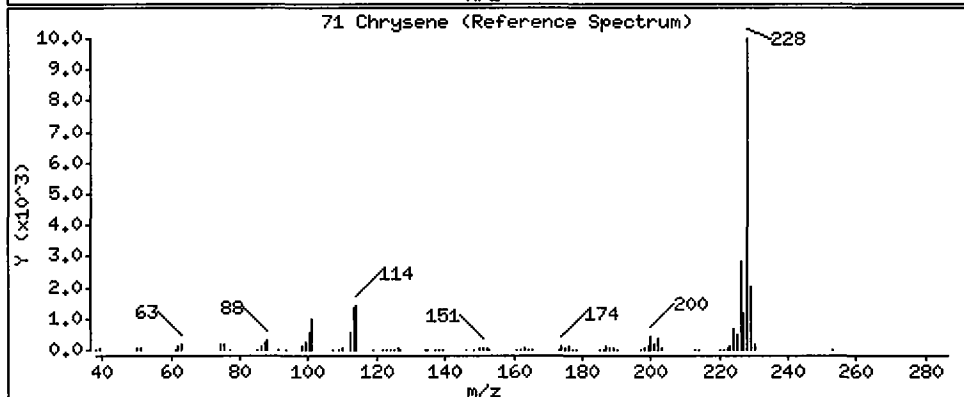
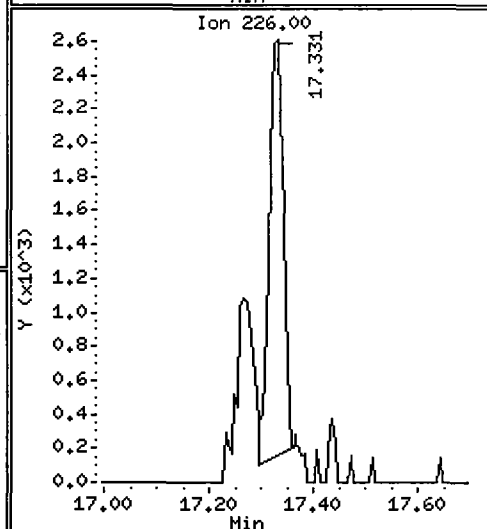
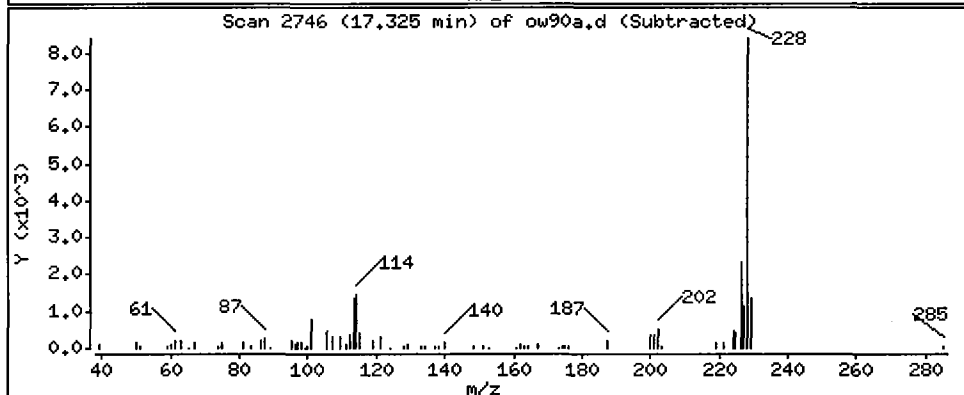
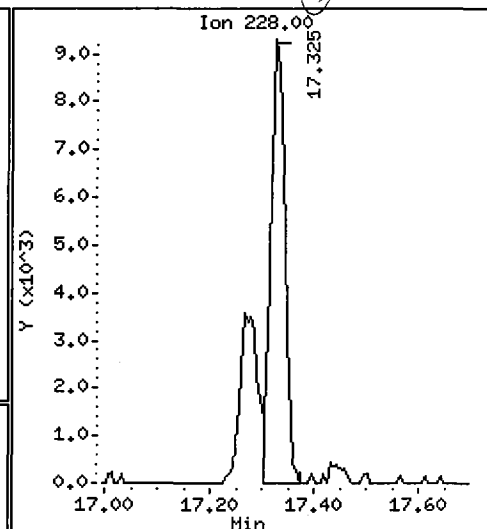
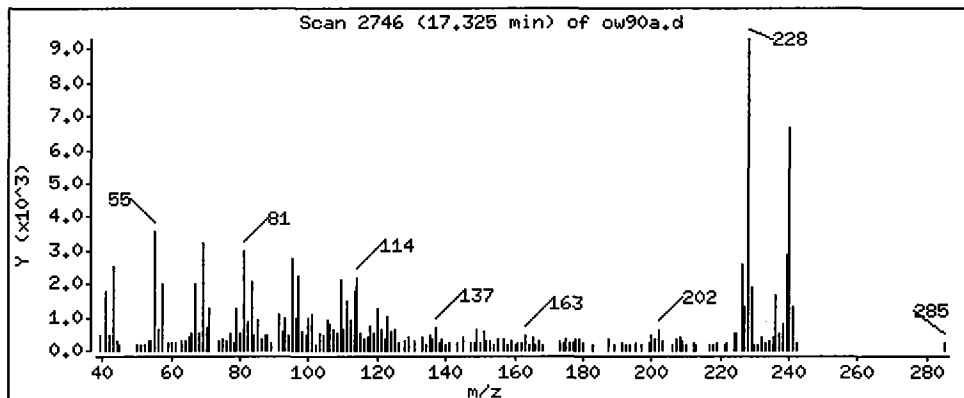
Column phase: ZB-5

Column diameter: 0.32

71 Chrysene

Concentration: 18.95 ug/kg

Old



Date : 06-MAY-2009 18:13

Client ID: 10654007

Instrument: nt4.i

Sample Info: OW90A

Volume Injected (uL): 1.0

Operator: LJR/VTS

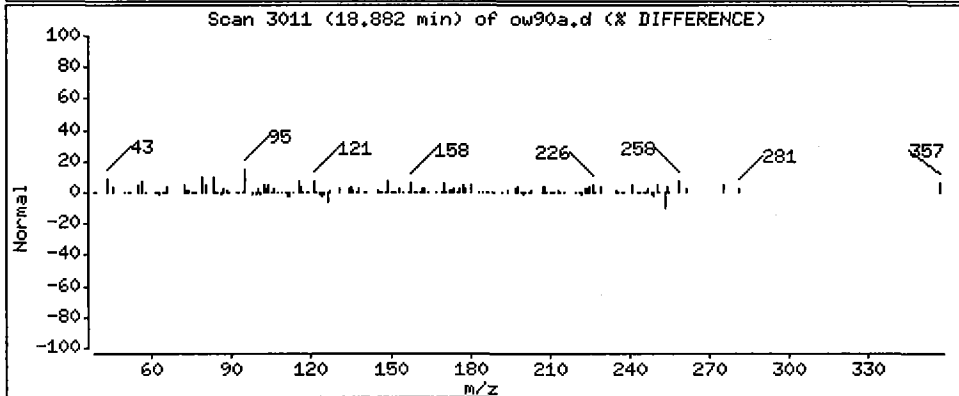
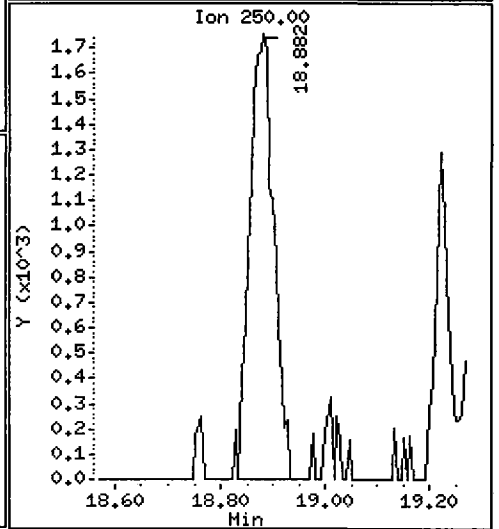
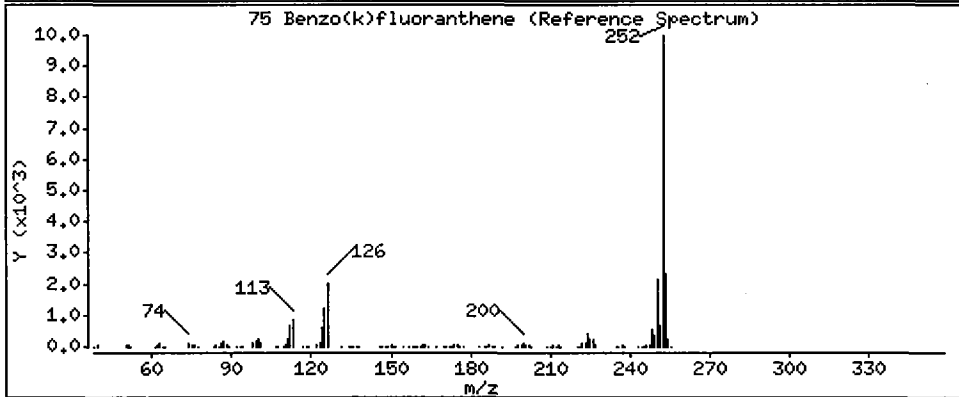
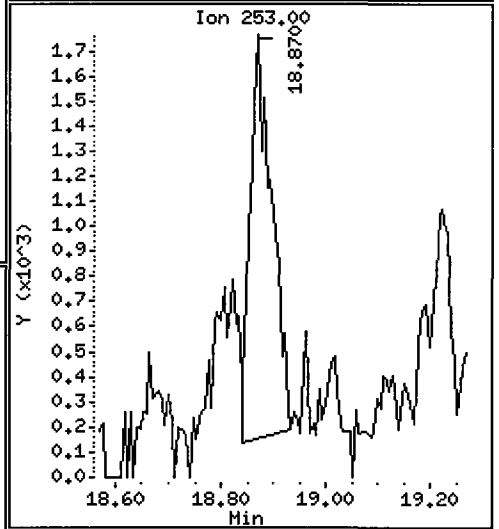
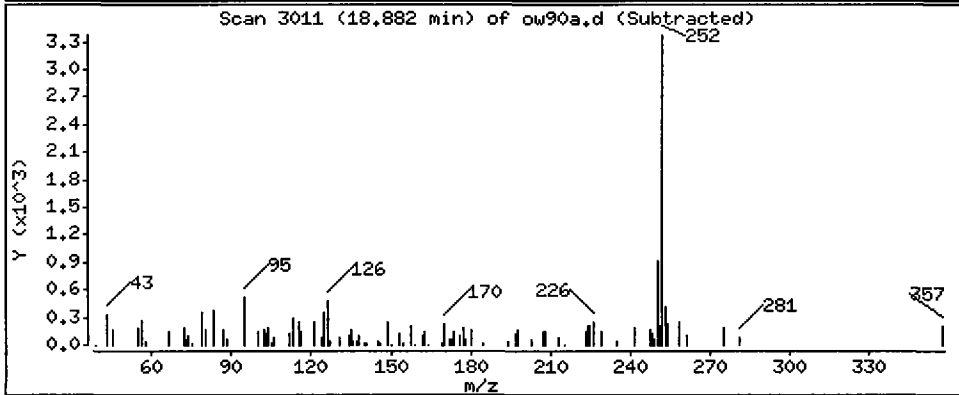
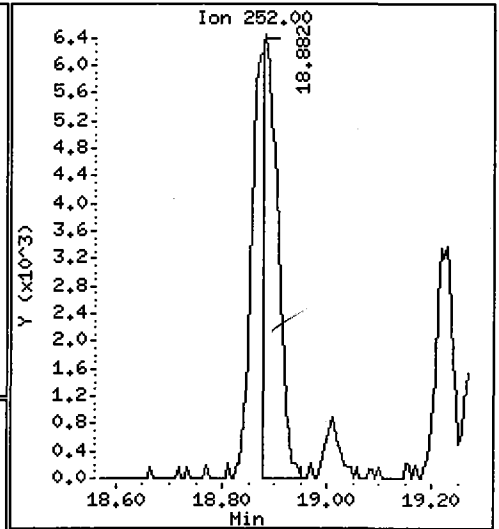
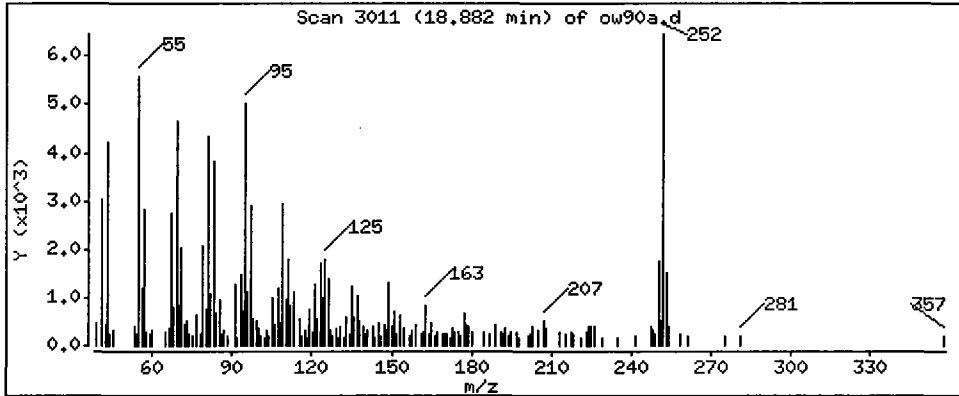
Column phase: ZB-5

Column diameter: 0.32

JLR

75 Benzo(k)fluoranthene

Concentration: 13.57 ug/kg



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654008
SAMPLE

Lab Sample ID: OW90B
 LIMS ID: 09-10069
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 18:46
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.4 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 59.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	Phenanthrene	20	9.8 J
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	21
129-00-0	Pyrene	20	17 J
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	16 J
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	59.6%
d14-p-Terphenyl	57.6%	d4-1,2-Dichlorobenzene	57.2%
d5-Phenol	61.6%	2-Fluorophenol	60.3%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	62.9%

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090506.b/ow90b.d
 Lab Smp Id: OW90B Client Smp ID: 10654008
 Inj Date : 06-MAY-2009 18:46
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90B
 Misc Info : 09-10069
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:50 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 3.50

LJR
5/11/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	63.10000	Weight of sample extracted (g)
M	59.70000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112			3.678	3.619	(0.616)	288392	22.6194	444.8
\$ 2 Phenol-d5	99			5.770	5.734	(0.966)	392453	23.0521	453.3
3 Phenol	94						Compound Not Detected.		
\$ 5 2-Chlorophenol-d4	132			5.694	5.676	(0.953)	240758	23.5607	463.3
4 Bis(2-Chloroethyl)ether	93						Compound Not Detected.		
6 2-Chlorophenol	128						Compound Not Detected.		
7 1,3-Dichlorobenzene	146						Compound Not Detected.		
* 8 1,4-Dichlorobenzene-d4	152			5.976	5.975	(1.000)	156014	20.0000	
9 1,4-Dichlorobenzene	146						Compound Not Detected.		
\$ 10 1,2-Dichlorobenzene-d4	152			6.281	6.281	(1.051)	103536	14.2974	281.1
12 1,2-Dichlorobenzene	146						Compound Not Detected.		
11 Benzyl alcohol	108						Compound Not Detected.		
14 2,2'-oxybis(1-Chloropropane)	45						Compound Not Detected.		
13 2-Methylphenol	108						Compound Not Detected.		
17 Hexachloroethane	117						Compound Not Detected.		

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70					Compound Not Detected.		
15 4-Methylphenol	108					Compound Not Detected.		
\$ 18 Nitrobenzene-d5	82		6.969	6.980	(0.864)	210727	14.8061	291.1
19 Nitrobenzene	77					Compound Not Detected.		
20 Isophorone	82					Compound Not Detected.		
21 2-Nitrophenol	139					Compound Not Detected.		
22 2,4-Dimethylphenol	107					Compound Not Detected.		
23 Bis(2-Chloroethoxy)methane	93					Compound Not Detected.		
24 Benzoic acid	105					Compound Not Detected.		
25 2,4-Dichlorophenol	162					Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180					Compound Not Detected.		
* 27 Naphthalene-d8	136		8.067	8.073	(1.000)	519289	20.0000	
28 Naphthalene	128					Compound Not Detected.		
29 4-Chloroaniline	127					Compound Not Detected.		
30 Hexachlorobutadiene	225					Compound Not Detected.		
31 4-Chloro-3-methylphenol	107					Compound Not Detected.		
32 2-Methylnaphthalene	141					Compound Not Detected.		
33 Hexachlorocyclopentadiene	237					Compound Not Detected.		
34 2,4,6-Trichlorophenol	196					Compound Not Detected.		
35 2,4,5-Trichlorophenol	196					Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		9.889	9.894	(0.911)	282134	14.9407	293.8
37 2-Chloronaphthalene	162					Compound Not Detected.		
38 2-Nitroaniline	65					Compound Not Detected.		
39 Dimethylphthalate	163					Compound Not Detected.		
40 Acenaphthylene	152					Compound Not Detected.		
41 2,6-Dinitrotoluene	165					Compound Not Detected.		
* 42 Acenaphthene-d10	164		10.858	10.864	(1.000)	255409	20.0000	
43 3-Nitroaniline	138					Compound Not Detected.		
44 Acenaphthene	153					Compound Not Detected.		
45 2,4-Dinitrophenol	184					Compound Not Detected.		
46 Dibenzofuran	168					Compound Not Detected.		
47 4-Nitrophenol	109					Compound Not Detected.		
48 2,4-Dinitrotoluene	165					Compound Not Detected.		
50 Diethylphthalate	149					Compound Not Detected.		
49 Fluorene	166					Compound Not Detected.		
51 4-Chlorophenyl-phenylether	204					Compound Not Detected.		
52 4-Nitroaniline	138					Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198					Compound Not Detected.		
54 N-Nitrosodiphenylamine	169					Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330		12.121	12.133	(1.116)	58619	26.6888	524.8
56 4-Bromophenyl-phenylether	248					Compound Not Detected.		
57 Hexachlorobenzene	284					Compound Not Detected.		
58 Pentachlorophenol	266					Compound Not Detected.		
* 59 Phenanthrene-d10	188		13.138	13.143	(1.000)	346507	20.0000	
60 Phenanthrene	178		13.167	13.179	(1.002)	11349	0.50182	9.867 (MH)
61 Anthracene	178					Compound Not Detected.		
62 Carbazole	167					Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149				Compound Not Detected.		
64 Fluoranthene	202	15.030	15.041	(1.144)	23620	1.05728	20.79
65 Pyrene	202	15.353	15.364	(0.888)	19640	0.86215	16.95
\$ 66 Terphenyl-d14	244	15.770	15.776	(0.912)	199034	14.3854	282.9
67 Butylbenzylphthalate	149				Compound Not Detected.		
68 Benzo(a)anthracene	228				Compound Not Detected.		
* 69 Chrysene-d12	240	17.298	17.309	(1.000)	283901	20.0000	
70 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
71 Chrysene	228	17.327	17.344	(1.002)	15815	0.79551	15.64
72 bis(2-Ethylhexyl)phthalate	149				Compound Not Detected.		
* 134 Di-n-octylphthalate-d4	153	18.661	18.672	(1.000)	518435	20.0000	
73 Di-n-octylphthalate	149				Compound Not Detected.		
74 Benzo(b)fluoranthene	252				Compound Not Detected.		
75 Benzo(k)fluoranthene	252				Compound Not Detected.		
76 Benzo(a)pyrene	252				Compound Not Detected.		
* 77 Perylene-d12	264	19.372	19.383	(1.000)	314948	20.0000	
78 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
80 Benzo(g,h,i)perylene	276				Compound Not Detected.		
90 N-Nitrosodimethylamine	74				Compound Not Detected.		
91 Aniline	93				Compound Not Detected.		
93 Benzidine	184				Compound Not Detected.		
103 Pyridine	79				Compound Not Detected.		
105 1-methylnaphthalene	141				Compound Not Detected.		
111 Azobenzene (1,2-DP-Hydrazine)	77				Compound Not Detected.		

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90b.d
 Lab Smp Id: OW90B
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10069

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: 10654008
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	156014	-9.54
27 Naphthalene-d8	608124	304062	1216248	519289	-14.61
42 Acenaphthene-d10	305977	152988	611954	255409	-16.53
59 Phenanthrene-d10	428646	214323	857292	346507	-19.16
69 Chrysene-d12	348476	174238	696952	283901	-18.53
134 Di-n-octylphthala	674761	337380	1349522	518435	-23.17
77 Perylene-d12	426588	213294	853176	314948	-26.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.98	0.01
27 Naphthalene-d8	8.07	7.57	8.57	8.07	-0.07
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	-0.05
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	-0.04
69 Chrysene-d12	17.31	16.81	17.81	17.30	-0.07
134 Di-n-octylphthala	18.67	18.17	19.17	18.66	-0.06
77 Perylene-d12	19.38	18.88	19.88	19.37	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix
 Sample Matrix: SOLID
 Lab Smp Id: OW90B
 Level: LOW
 Data Type: MS DATA
 SpikeList File: PSDDALCS.spk
 Sublist File: PSDDA.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10069

Client SDG: OW90
 Fraction: SV
 Client Smp ID: 10654008
 Operator: LJR/VTS
 SampleType: SAMPLE
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	737.3	444.8	60.32	10-114
\$ 2 Phenol-d5	737.3	453.3	61.47	29-85
\$ 5 2-Chlorophenol-d4	737.3	463.3	62.83	30-84
\$ 10 1,2-Dichlorobenzen	491.6	281.1	57.19	25-82
\$ 18 Nitrobenzene-d5	491.6	291.1	59.22	29-87
\$ 36 2-Fluorobiphenyl	491.6	293.8	59.76	32-88
\$ 55 2,4,6-Tribromophen	737.3	524.8	71.17	25-103
\$ 66 Terphenyl-d14	491.6	282.9	57.54	21-97

Date : 06-MAY-2009 18:46

Client ID: 10654008

Sample Info: OM90B

Volume Injected (ul): 1.0

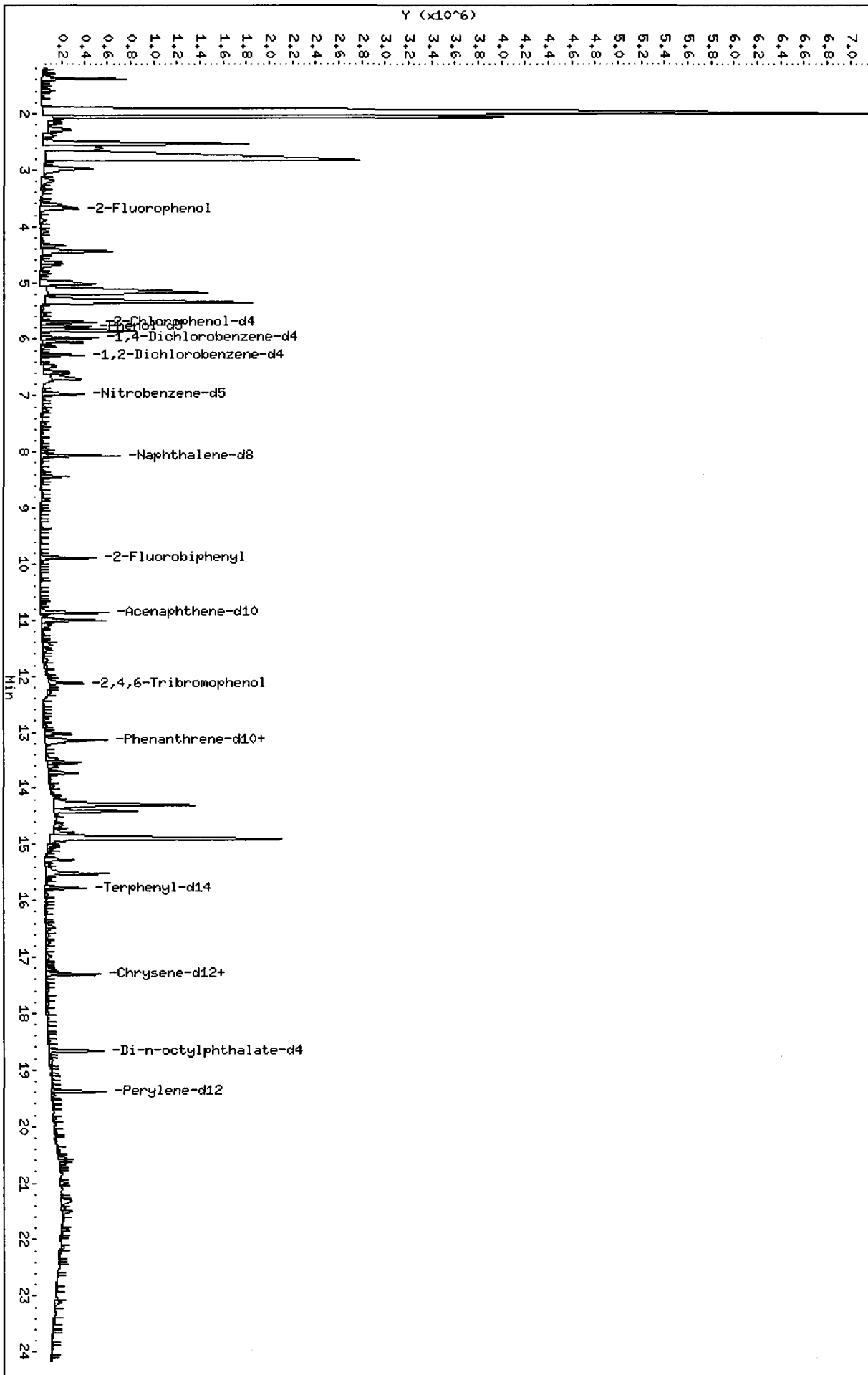
Column phase: ZB-5

Instrument: nt4.i

Operator: LJR/VTS

Column diameter: 0.32

/chem3/nt4,i/20090506,b/ow90b.d



000000 : 000000

Date : 06-MAY-2009 18:46

Client ID: 10654008

Instrument: nt4.i

Sample Info: OW90B

Volume Injected (uL): 1.0

Operator: LJR/VTS

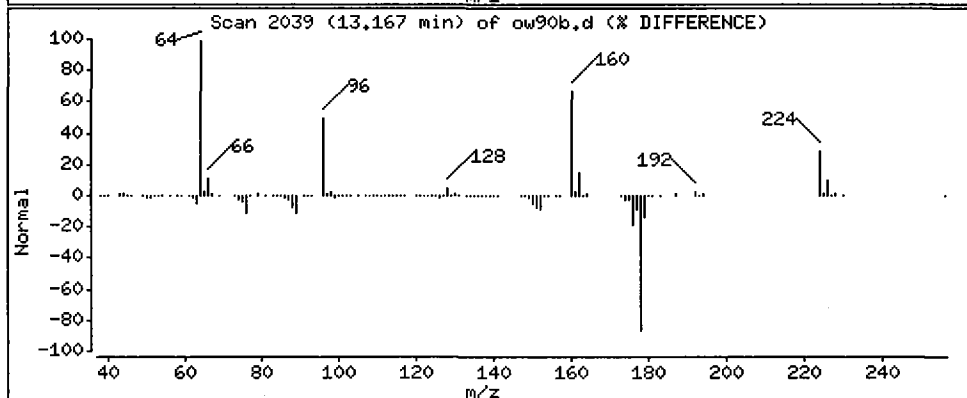
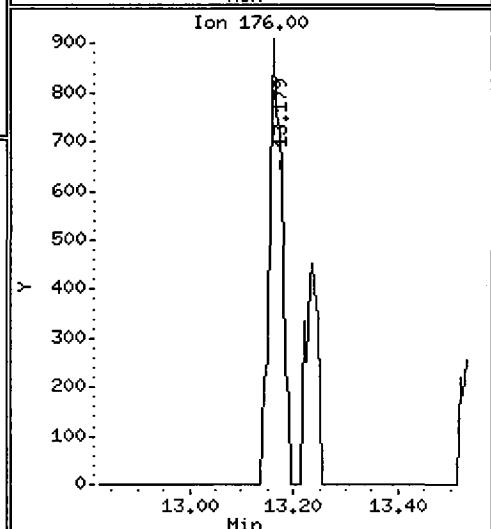
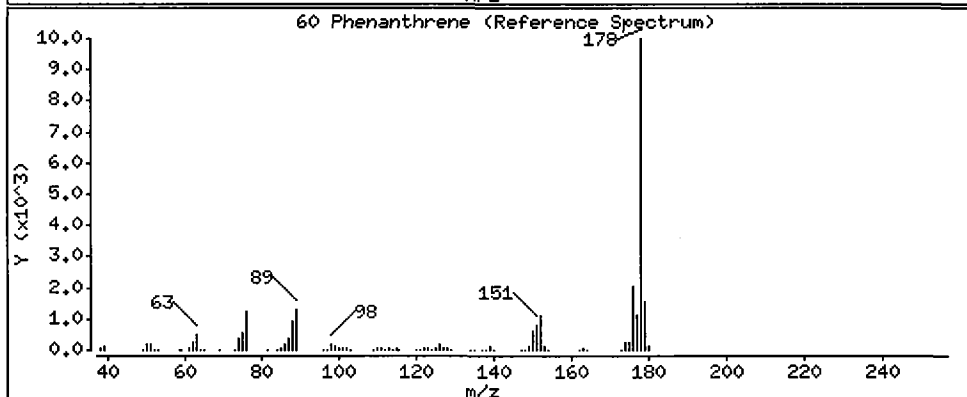
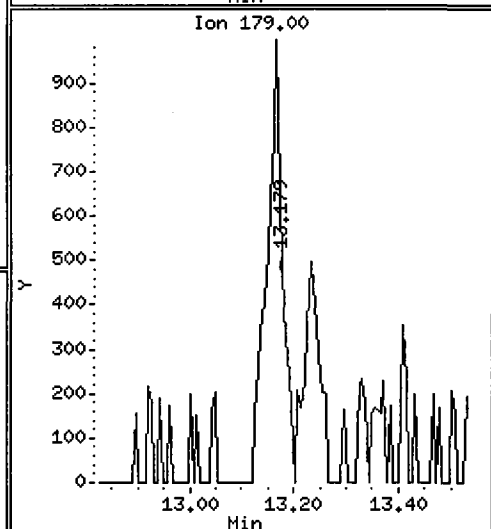
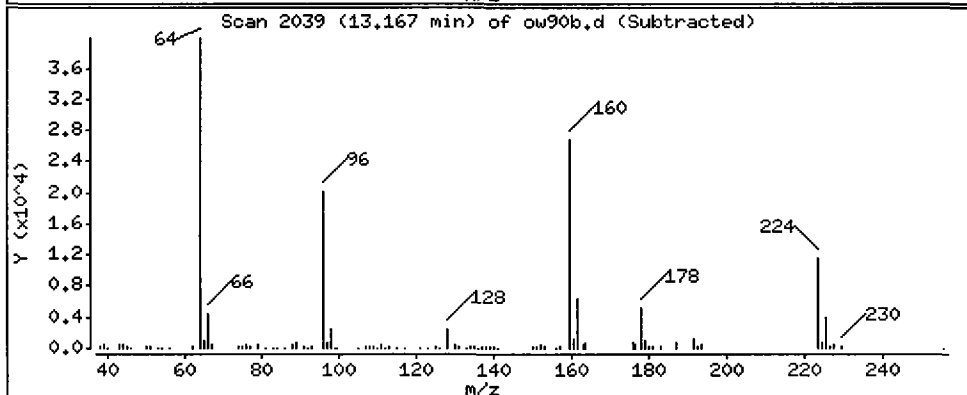
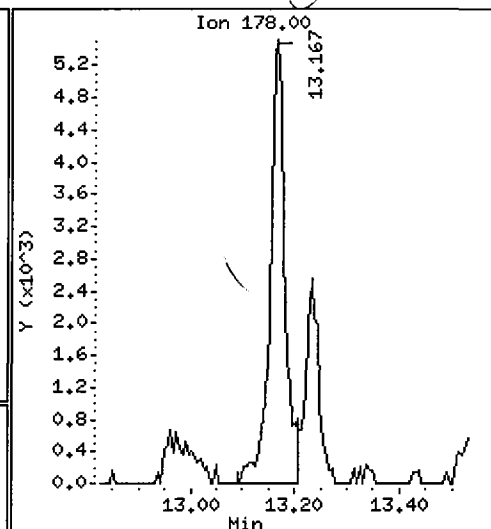
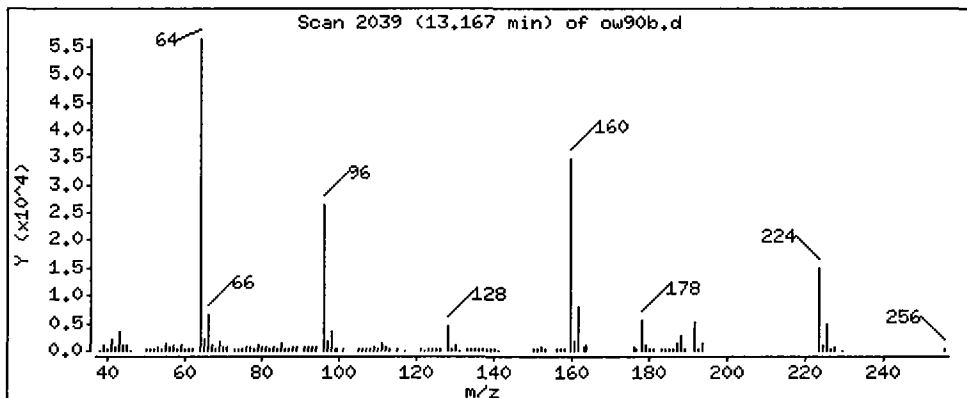
Column phase: ZB-5

Column diameter: 0.32

60 Phenanthrene

Concentration: 9.867 ug/kg

ELN



Date : 06-MAY-2009 18:46

Client ID: 10654008

Instrument: nt4.i

Sample Info: OW90B

Volume Injected (uL): 1.0

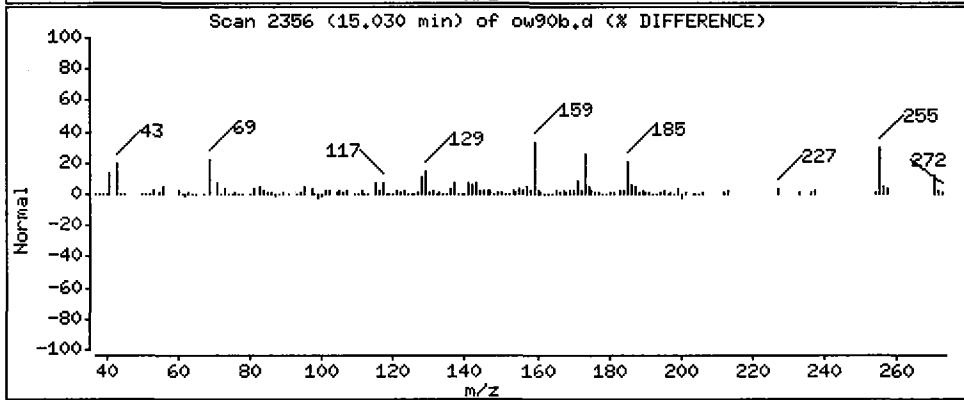
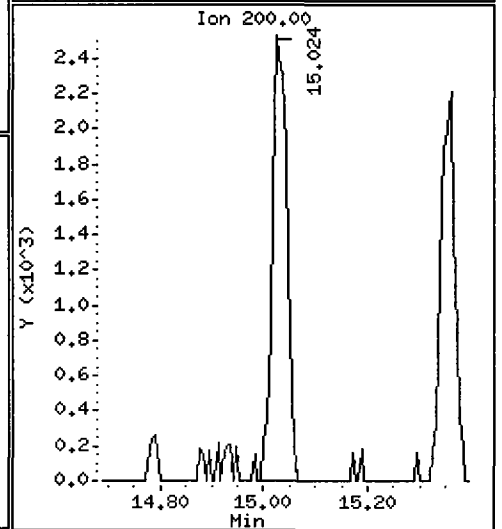
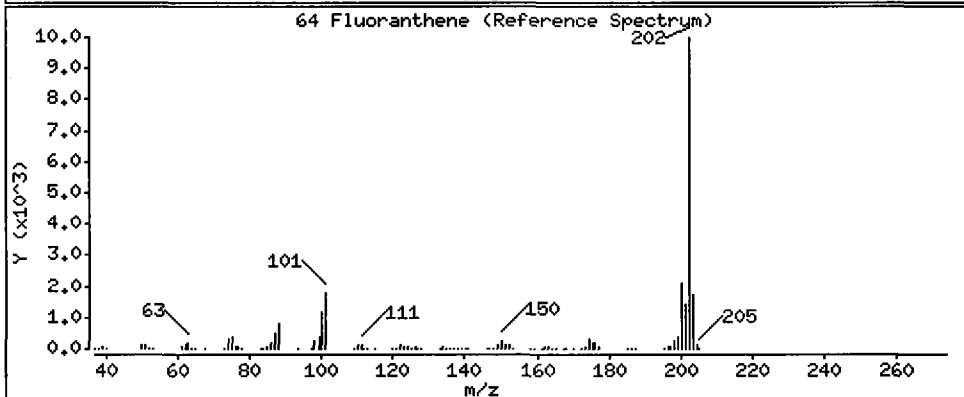
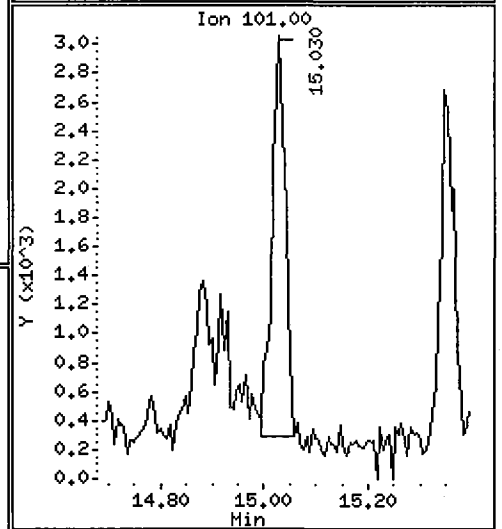
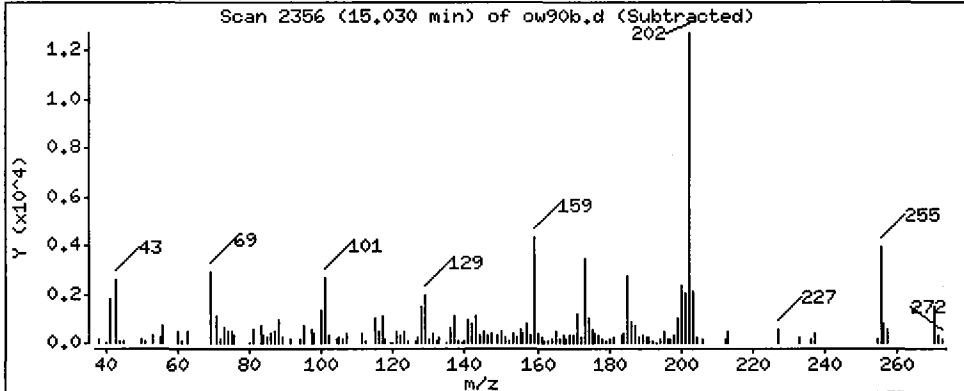
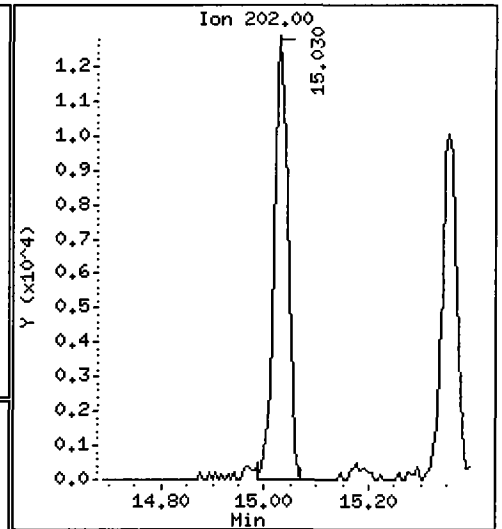
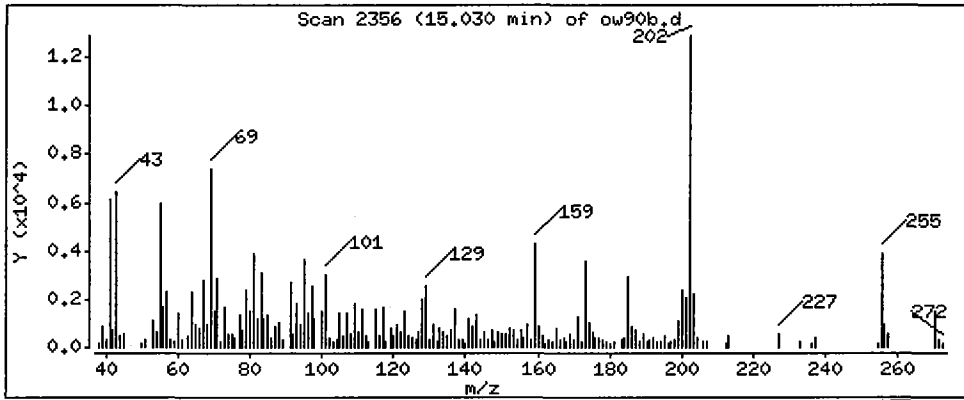
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

64 Fluoranthene

Concentration: 20.79 ug/kg



Date : 06-MAY-2009 18:46

Client ID: 10654008

Instrument: nt4.i

Sample Info: OW90B

Volume Injected (uL): 1.0

Operator: LJR/VTS

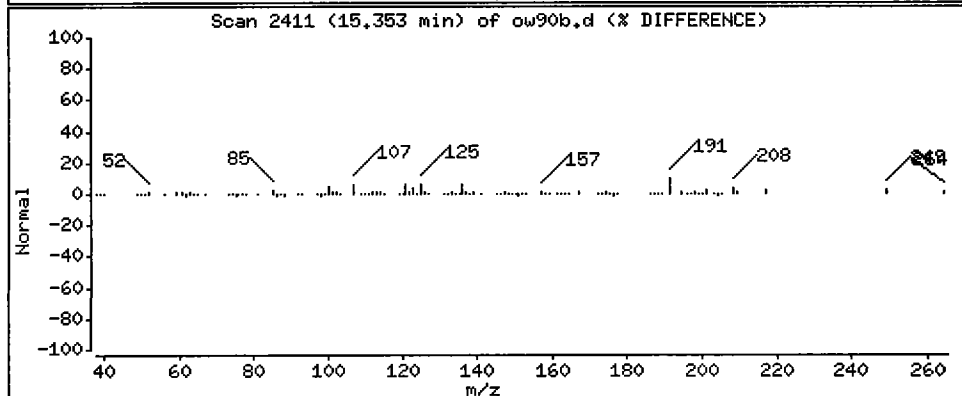
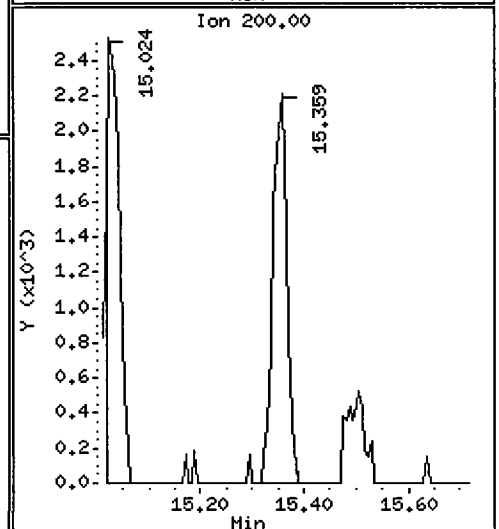
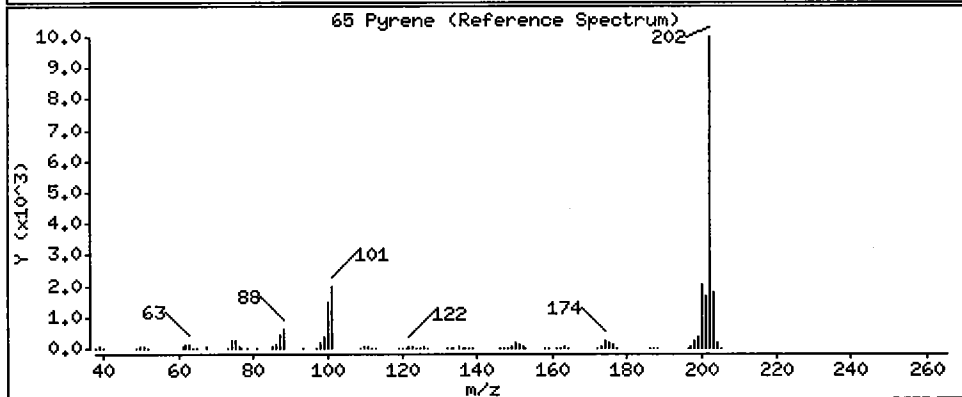
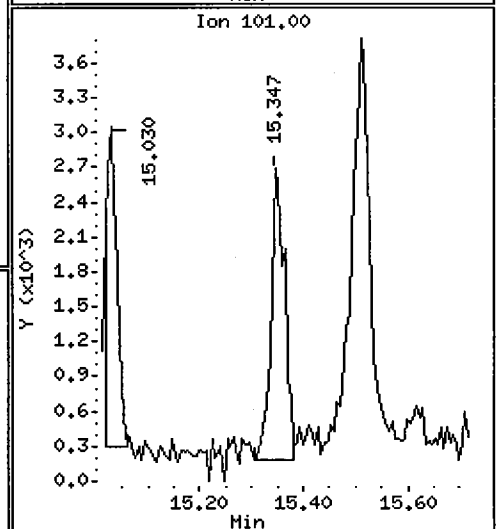
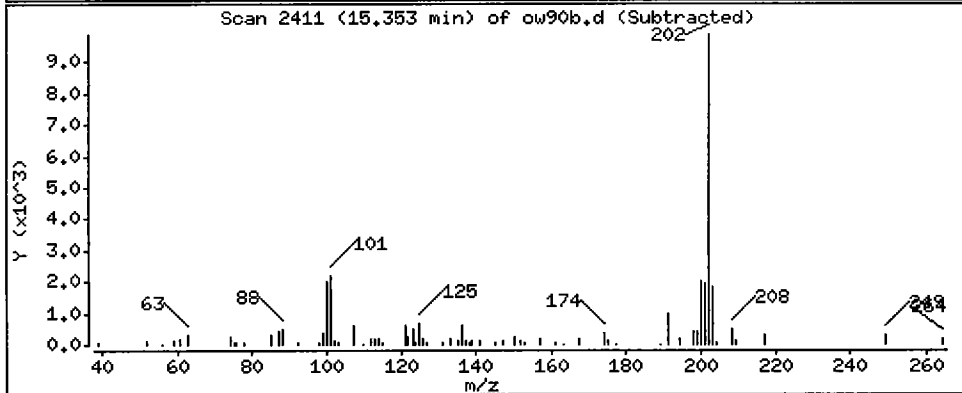
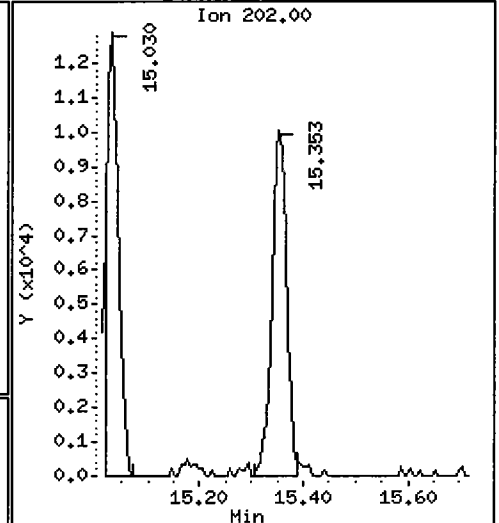
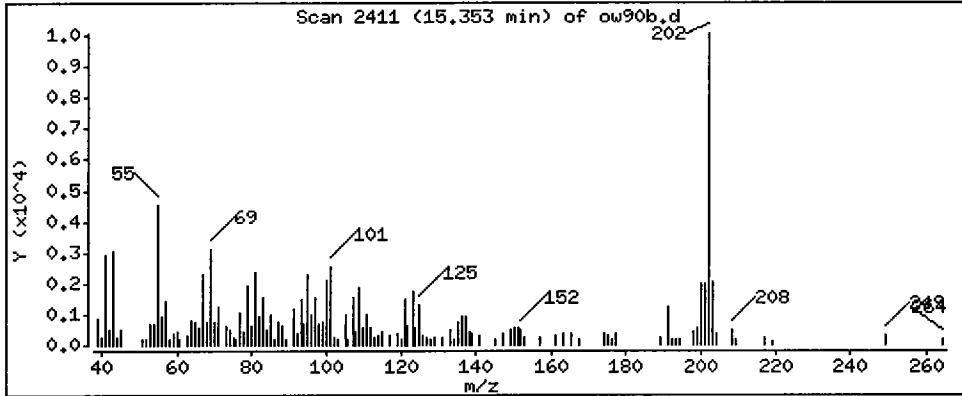
Column phase: ZB-5

Column diameter: 0.32

DLR

65 Pyrene

Concentration: 16.95 ug/kg



Date : 06-MAY-2009 18:46

Client ID: 10654008

Instrument: nt4.i

Sample Info: OW90B

Volume Injected (uL): 1.0

Operator: LJR/VTS

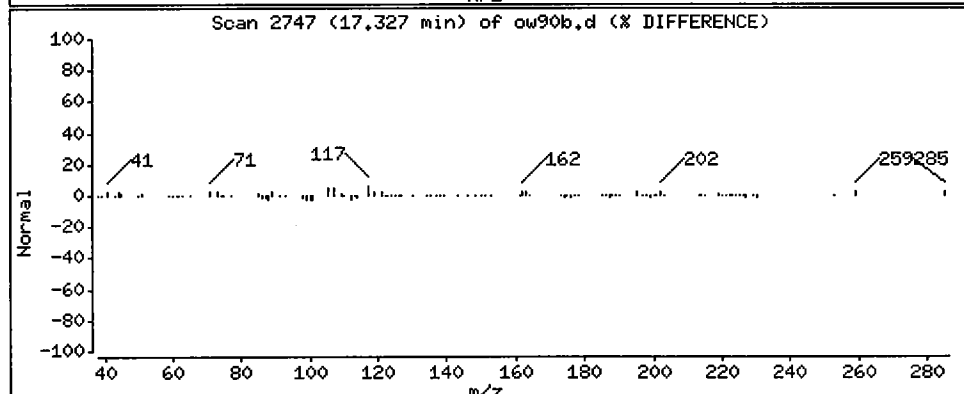
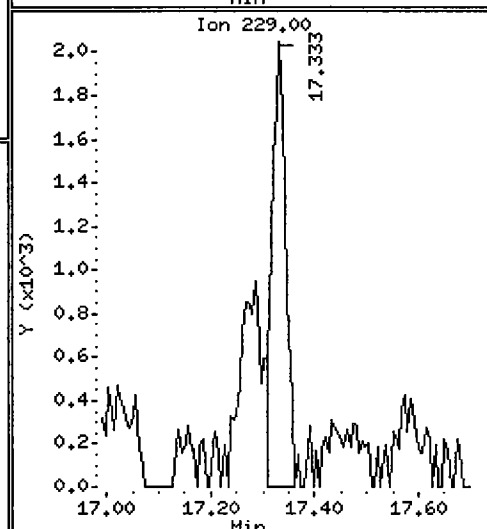
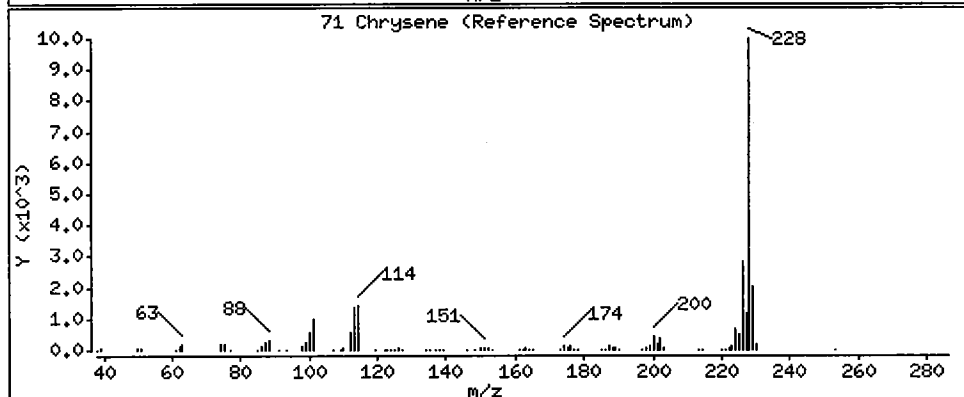
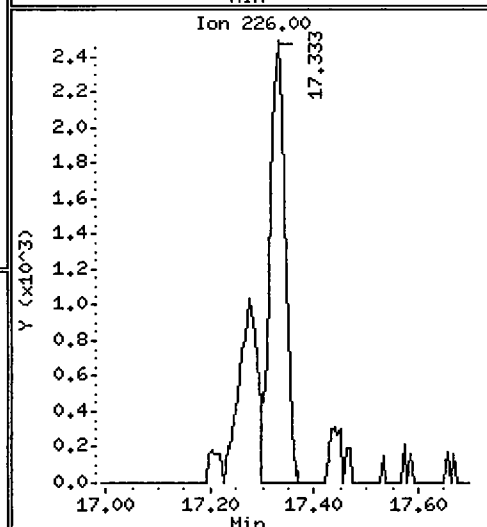
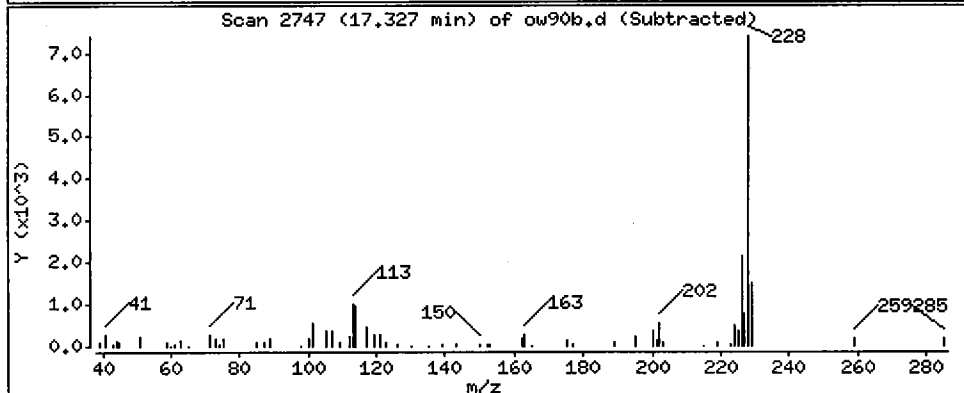
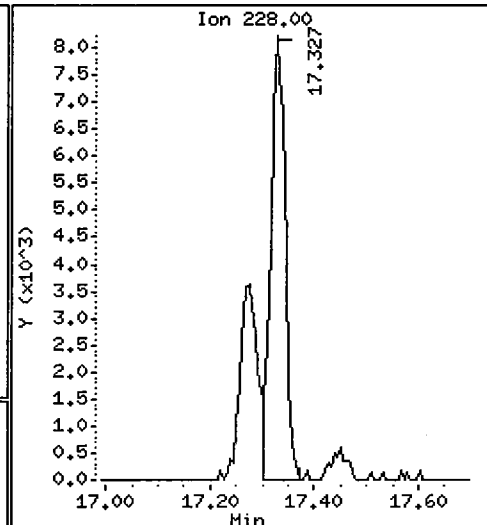
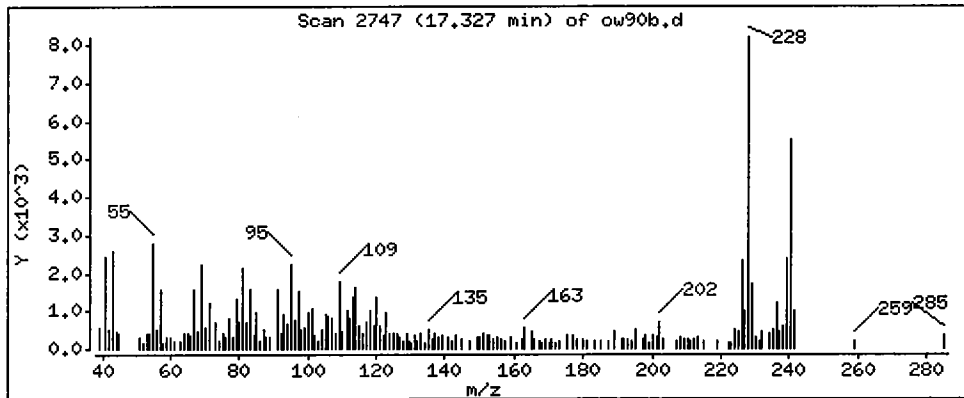
Column phase: ZB-5

Column diameter: 0.32

OK


71 Chrysene

Concentration: 15.64 ug/kg



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654009
SAMPLE

Lab Sample ID: OW90C
 LIMS ID: 09-10070
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 19:20
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.6 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 55.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	Phenanthrene	20	41
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	64
129-00-0	Pyrene	20	72
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo (a) anthracene	20	32
117-81-7	bis (2-Ethylhexyl) phthalate	20	21
218-01-9	Chrysene	20	42
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo (b) fluoranthene	20	26
207-08-9	Benzo (k) fluoranthene	20	42
50-32-8	Benzo (a) pyrene	20	34
193-39-5	Indeno (1,2,3-cd) pyrene	20	19 J
53-70-3	Dibenz (a,h) anthracene	20	< 20 U
191-24-2	Benzo (g,h,i) perylene	20	24

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.8%	2-Fluorobiphenyl	71.6%
d14-p-Terphenyl	70.4%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	64.8%	2-Fluorophenol	68.5%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	68.3%

Analytical Resources, Inc.

Semivolatatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090506.b/ow90c.d
 Lab Smp Id: OW90C Client Smp ID: 10654009
 Inj Date : 06-MAY-2009 19:20
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90C
 Misc Info : 09-10070
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:50 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 3.50

LJR
5/7/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	57.50000	Weight of sample extracted (g)
M	55.50000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	3.670	3.619	(0.614)	314798	25.6883	502.0	
\$ 2 Phenol-d5	99	5.744	5.734	(0.962)	398157	24.3323	475.5	
3 Phenol	94	Compound Not Detected.						
\$ 5 2-Chlorophenol-d4	132	5.691	5.676	(0.953)	251519	25.6085	500.4	
4 Bis(2-Chloroethyl) ether	93	Compound Not Detected.						
6 2-Chlorophenol	128	Compound Not Detected.						
7 1,3-Dichlorobenzene	146	Compound Not Detected.						
* 8 1,4-Dichlorobenzene-d4	152	5.973	5.975	(1.000)	149954	20.0000		
9 1,4-Dichlorobenzene	146	Compound Not Detected.						
\$ 10 1,2-Dichlorobenzene-d4	152	6.279	6.281	(1.051)	116492	16.7365	327.0	
12 1,2-Dichlorobenzene	146	Compound Not Detected.						
11 Benzyl alcohol	108	Compound Not Detected.						
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						
13 2-Methylphenol	108	Compound Not Detected.						
17 Hexachloroethane	117	Compound Not Detected.						

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70					Compound Not Detected.		
15 4-Methylphenol	108					Compound Not Detected.		
\$ 18 Nitrobenzene-d5	82		6.966	6.980	(0.864)	221220	15.7077	306.9
19 Nitrobenzene	77					Compound Not Detected.		
20 Isophorone	82					Compound Not Detected.		
21 2-Nitrophenol	139					Compound Not Detected.		
22 2,4-Dimethylphenol	107					Compound Not Detected.		
23 Bis(2-Chloroethoxy)methane	93					Compound Not Detected.		
24 Benzoic acid	105					Compound Not Detected.		
25 2,4-Dichlorophenol	162					Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180					Compound Not Detected.		
* 27 Naphthalene-d8	136		8.065	8.073	(1.000)	513855	20.0000	
28 Naphthalene	128					Compound Not Detected.		
29 4-Chloroaniline	127					Compound Not Detected.		
30 Hexachlorobutadiene	225					Compound Not Detected.		
31 4-Chloro-3-methylphenol	107					Compound Not Detected.		
32 2-Methylnaphthalene	141					Compound Not Detected.		
33 Hexachlorocyclopentadiene	237					Compound Not Detected.		
34 2,4,6-Trichlorophenol	196					Compound Not Detected.		
35 2,4,5-Trichlorophenol	196					Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		9.886	9.894	(0.910)	332509	17.8582	349.0
37 2-Chloronaphthalene	162					Compound Not Detected.		
38 2-Nitroaniline	65					Compound Not Detected.		
39 Dimethylphthalate	163					Compound Not Detected.		
40 Acenaphthylene	152					Compound Not Detected.		
41 2,6-Dinitrotoluene	165					Compound Not Detected.		
* 42 Acenaphthene-d10	164		10.862	10.864	(1.000)	251835	20.0000	
43 3-Nitroaniline	138					Compound Not Detected.		
44 Acenaphthene	153					Compound Not Detected.		
45 2,4-Dinitrophenol	184					Compound Not Detected.		
46 Dibenzofuran	168					Compound Not Detected.		
47 4-Nitrophenol	109					Compound Not Detected.		
48 2,4-Dinitrotoluene	165					Compound Not Detected.		
50 Diethylphthalate	149					Compound Not Detected.		
49 Fluorene	166					Compound Not Detected.		
51 4-Chlorophenyl-phenylether	204					Compound Not Detected.		
52 4-Nitroaniline	138					Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198					Compound Not Detected.		
54 N-Nitrosodiphenylamine	169					Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330		12.125	12.133	(1.116)	65643	30.3109	592.3
56 4-Bromophenyl-phenylether	248					Compound Not Detected.		
57 Hexachlorobenzene	284					Compound Not Detected.		
58 Pentachlorophenol	266					Compound Not Detected.		
* 59 Phenanthrene-d10	188		13.135	13.143	(1.000)	356737	20.0000	
60 Phenanthrene	178		13.165	13.179	(1.002)	48626	2.08244	40.81 (M)
61 Anthracene	178					Compound Not Detected.		
62 Carbazole	167					Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	Compound Not Detected.					
64 Fluoranthene	202	15.033	15.041	(1.144)	74759	3.25041	63.52
65 Pyrene	202	15.356	15.364	(0.888)	83523	3.71094	72.51
\$ 66 Terphenyl-d14	244	15.768	15.776	(0.912)	240036	17.5594	343.1
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	17.272	17.286	(0.999)	32187	1.61407	31.54
* 69 Chrysene-d12	240	17.295	17.309	(1.000)	280498	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	17.331	17.344	(1.002)	42444	2.16089	42.23
72 bis(2-Ethylhexyl)phthalate	149	17.748	17.750	(0.951)	17251	1.08013	21.11
* 134 Di-n-octylphthalate-d4	153	18.664	18.672	(1.000)	503798	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	18.876	18.884	(0.975)	29399	1.32551	25.90 (M)
75 Benzo(k)fluoranthene	252	18.876	18.919	(0.975)	45633	2.14101	41.84 (M)
76 Benzo(a)pyrene	252	19.287	19.301	(0.996)	35485	1.76316	34.45
* 77 Perylene-d12	264	19.369	19.383	(1.000)	309342	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	20.685	20.699	(1.068)	24829	0.99199	19.38
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	20.962	20.981	(1.082)	26817	1.21024	23.65
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90c.d
 Lab Smp Id: OW90C
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10070

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: 10654009
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	149954	-13.05
27 Naphthalene-d8	608124	304062	1216248	513855	-15.50
42 Acenaphthene-d10	305977	152988	611954	251835	-17.69
59 Phenanthrene-d10	428646	214323	857292	356737	-16.78
69 Chrysene-d12	348476	174238	696952	280498	-19.51
134 Di-n-octylphthala	674761	337380	1349522	503798	-25.34
77 Perylene-d12	426588	213294	853176	309342	-27.48

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.03
27 Naphthalene-d8	8.07	7.57	8.57	8.06	-0.10
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	-0.02
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	-0.06
69 Chrysene-d12	17.31	16.81	17.81	17.30	-0.08
134 Di-n-octylphthala	18.67	18.17	19.17	18.66	-0.04
77 Perylene-d12	19.38	18.88	19.88	19.37	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix
 Sample Matrix: SOLID
 Lab Smp Id: OW90C
 Level: LOW
 Data Type: MS DATA
 SpikeList File: PSDDALCS.spk
 Sublist File: PSDDA.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10070

Client SDG: OW90
 Fraction: SV
 Client Smp ID: 10654009
 Operator: LJR/VTS
 SampleType: SAMPLE
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	732.8	502.0	68.50	10-114
\$ 2 Phenol-d5	732.8	475.5	64.89	29-85
\$ 5 2-Chlorophenol-d4	732.8	500.4	68.29	30-84
\$ 10 1,2-Dichlorobenzen	488.5	327.0	66.95	25-82
\$ 18 Nitrobenzene-d5	488.5	306.9	62.83	29-87
\$ 36 2-Fluorobiphenyl	488.5	349.0	71.43	32-88
\$ 55 2,4,6-Tribromophen	732.8	592.3	80.83	25-103
\$ 66 Terphenyl-d14	488.5	343.1	70.24	21-97

Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: rt4.i

Sample Info: QM90C

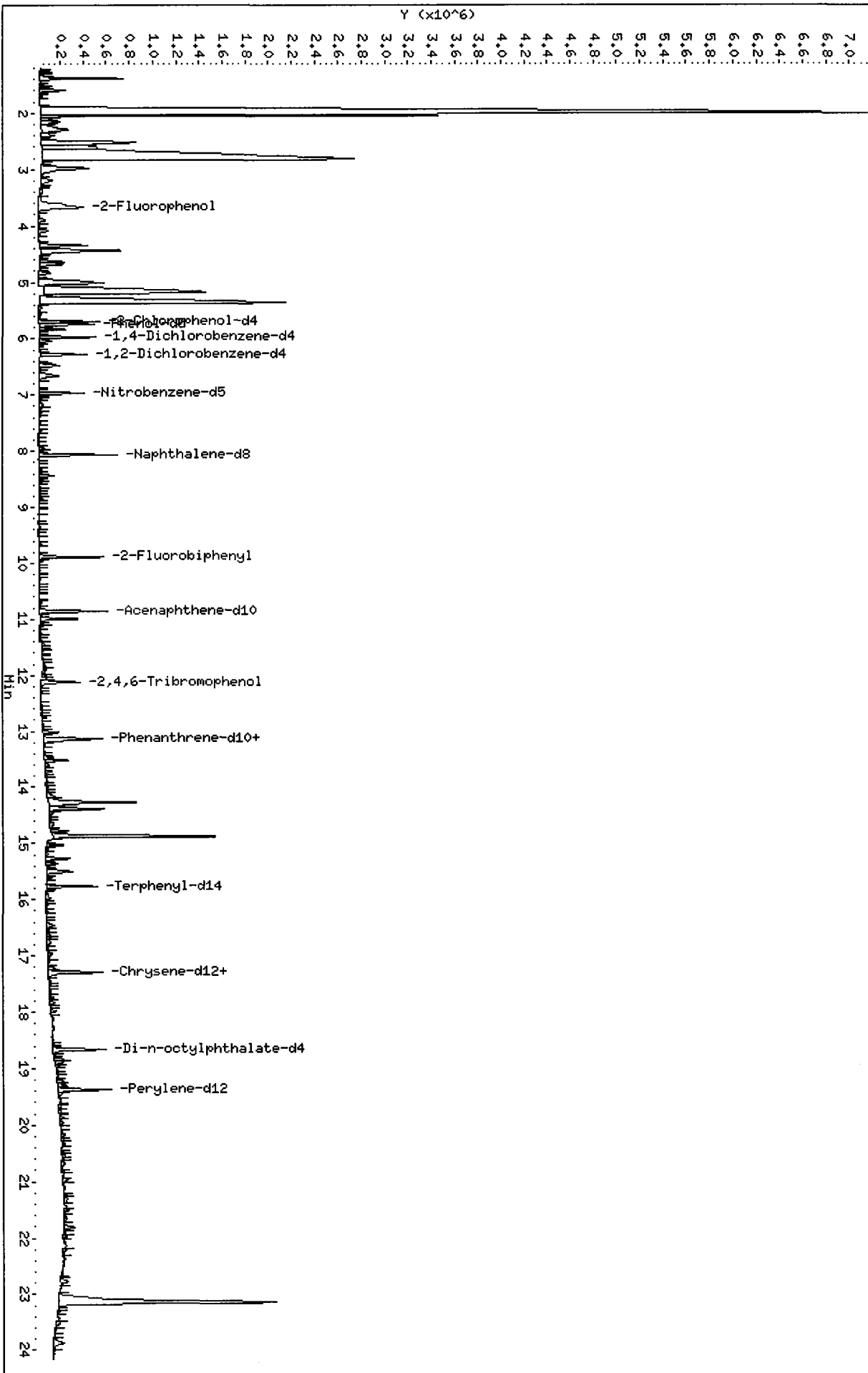
Volume Injected (uL): 1.0

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

/chem3/rt4.1/20090506.b/ow90c.d



0450 : 00100

Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

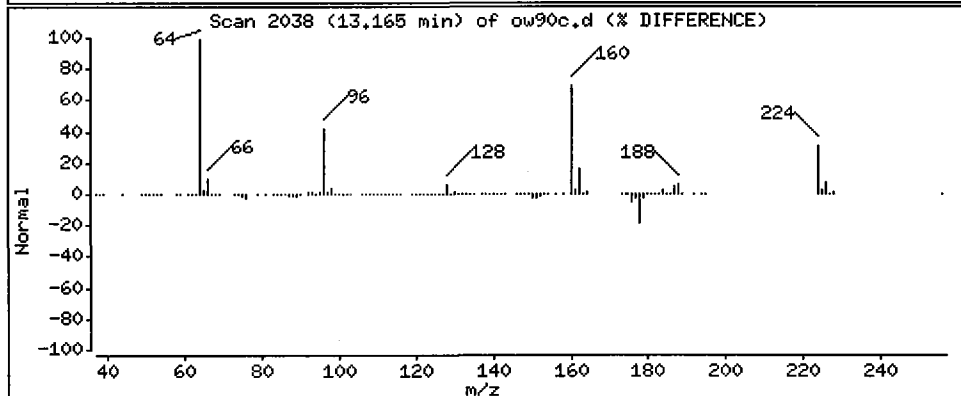
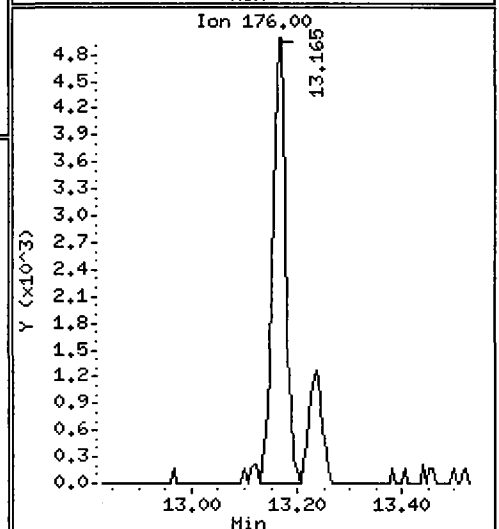
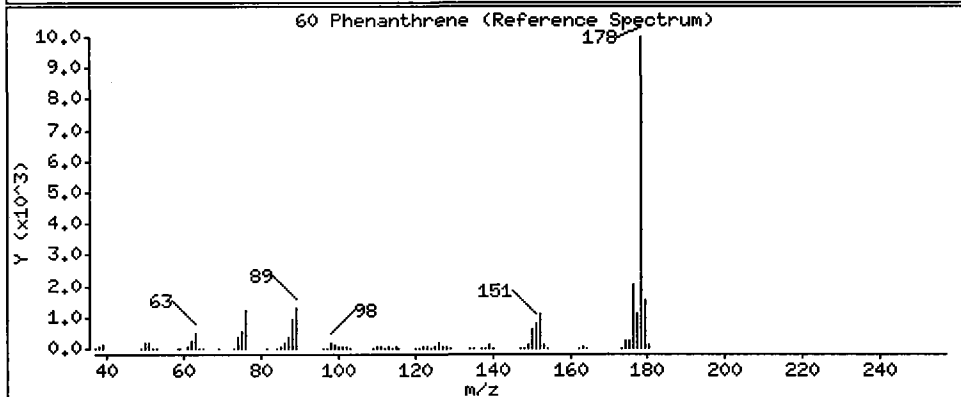
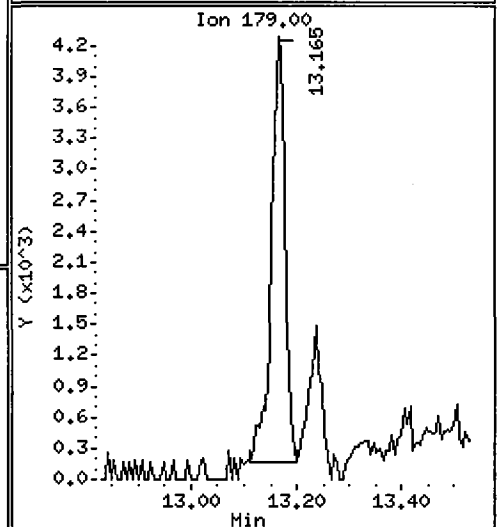
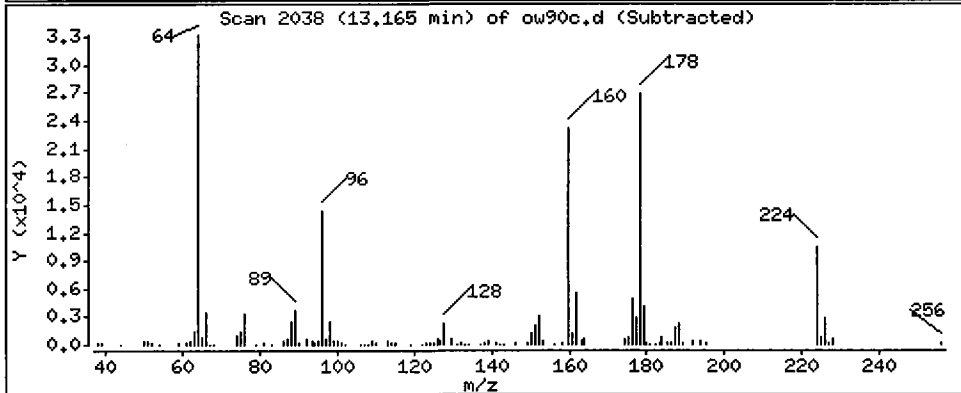
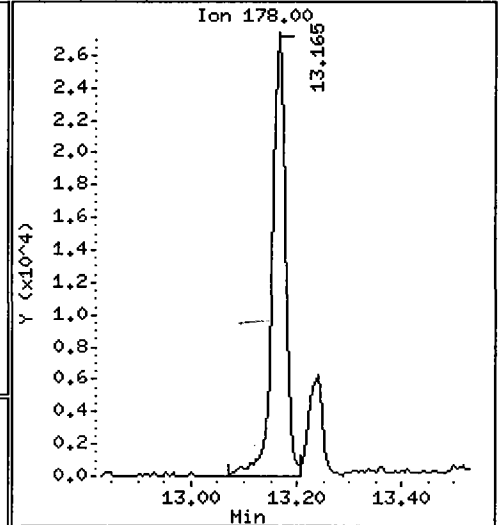
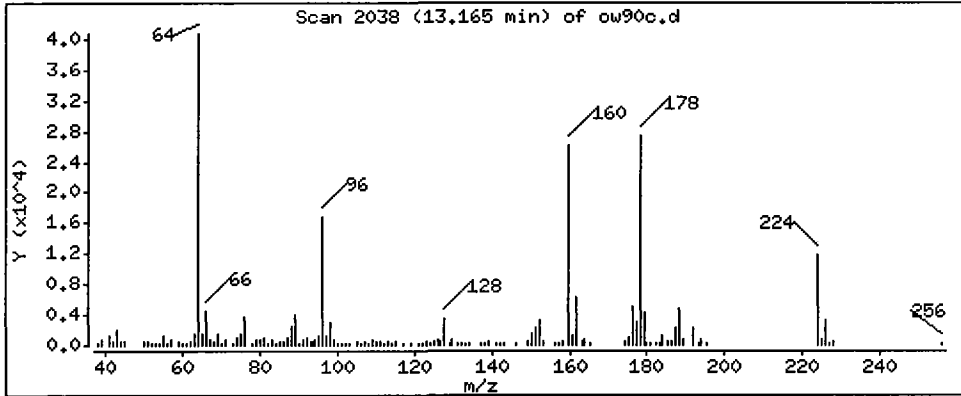
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

60 Phenanthrene

Concentration: 40.81 ug/kg



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

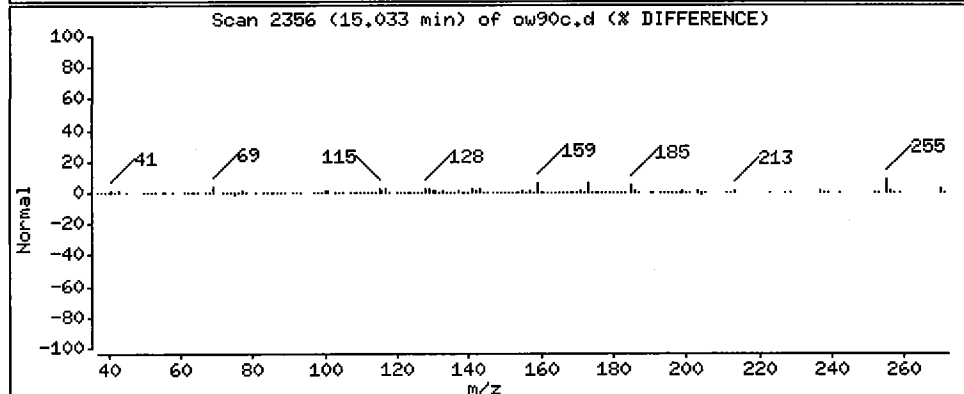
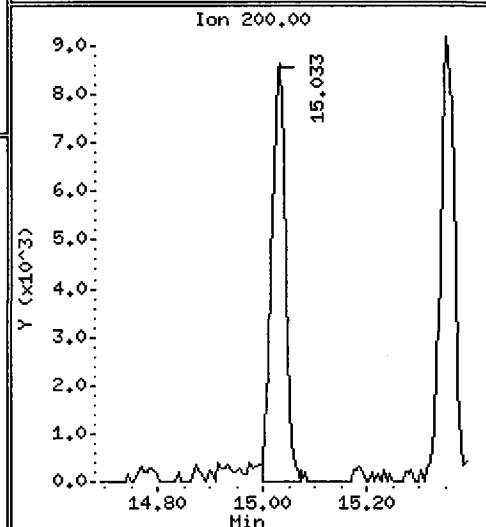
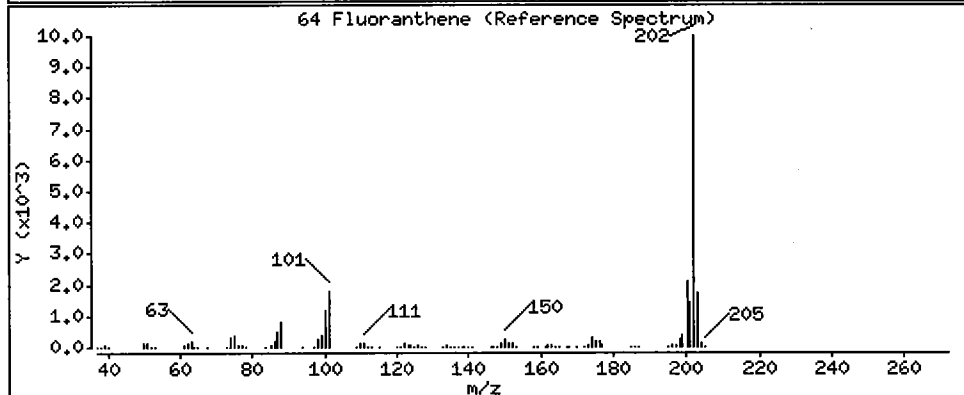
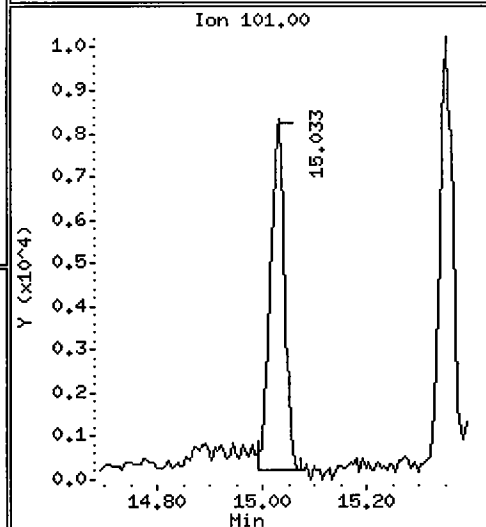
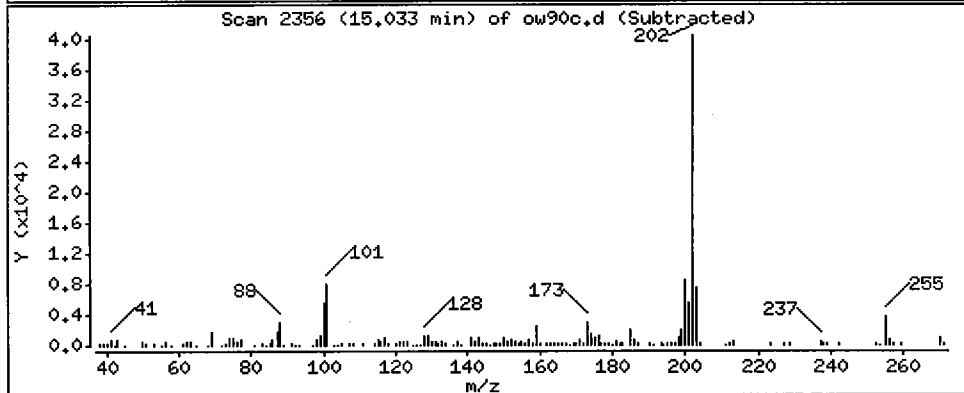
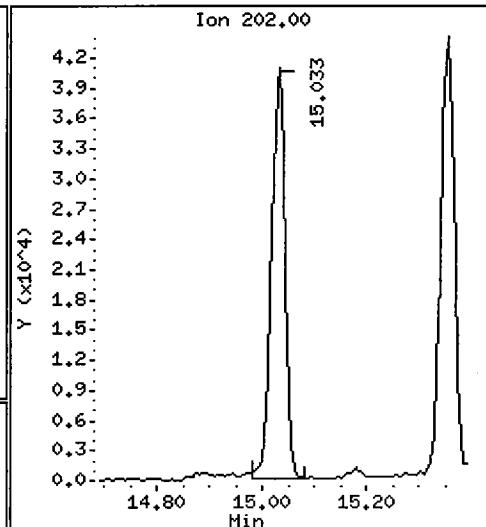
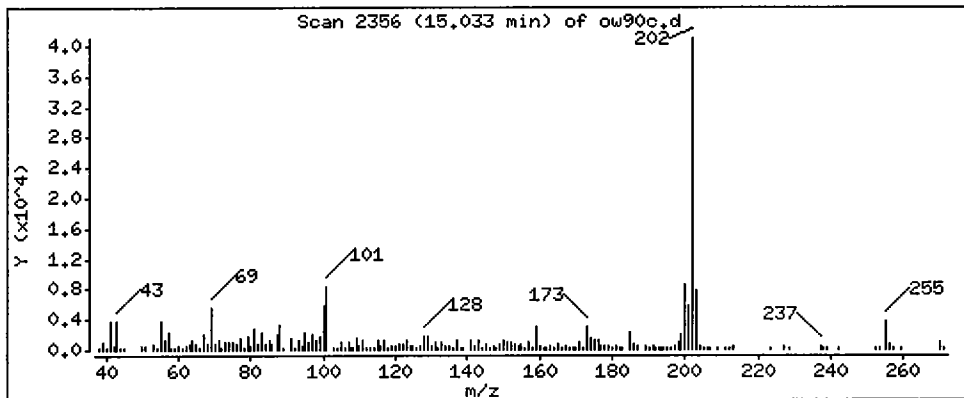
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

64 Fluoranthene

Concentration: 63.52 ug/kg



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

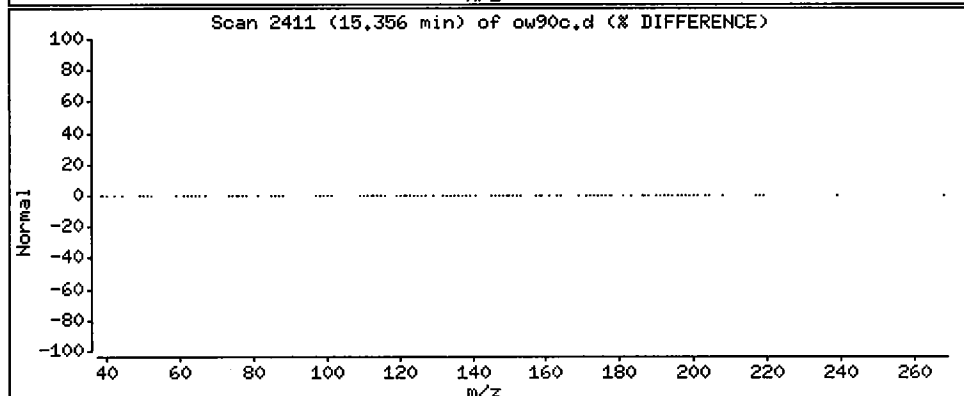
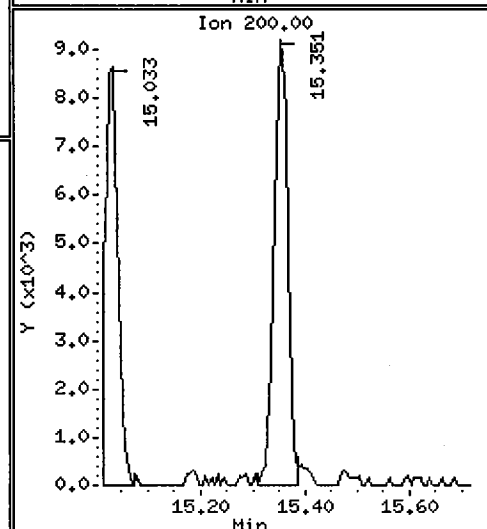
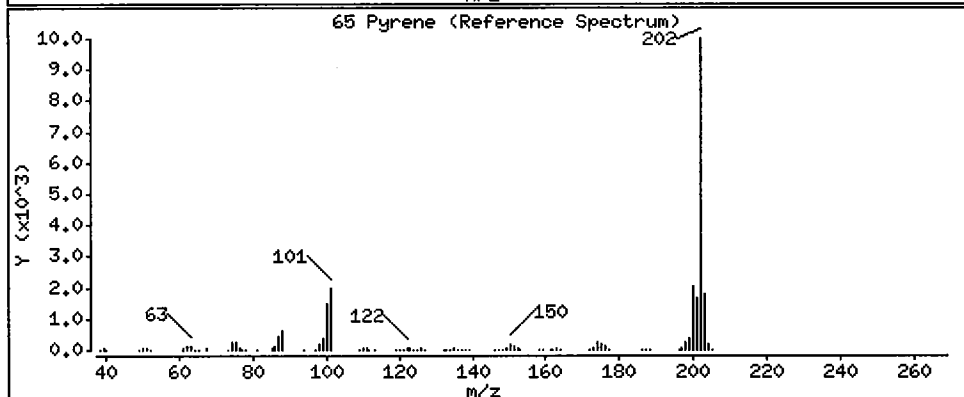
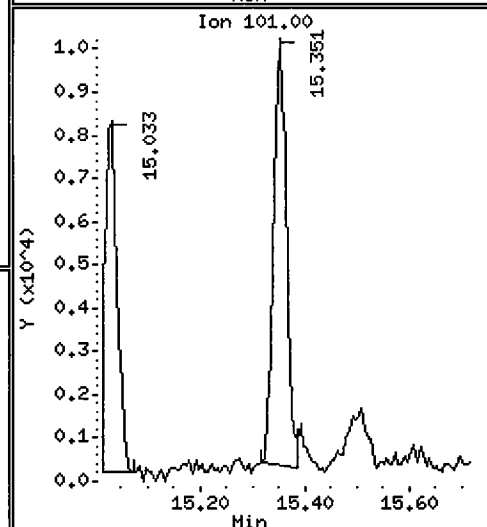
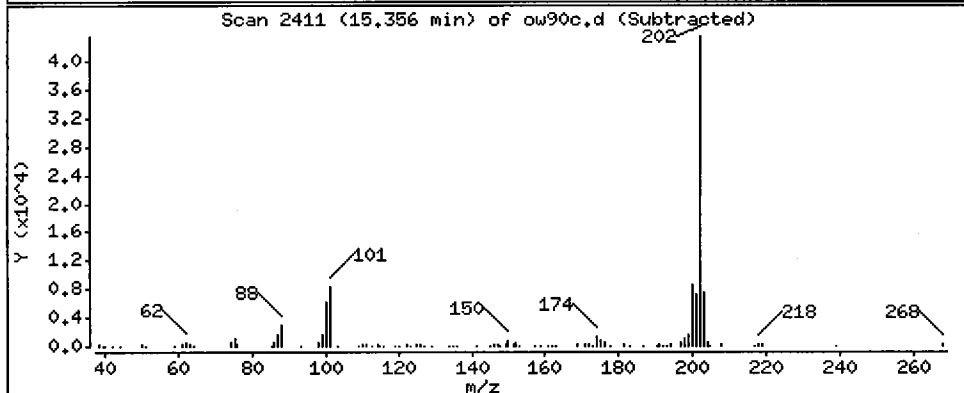
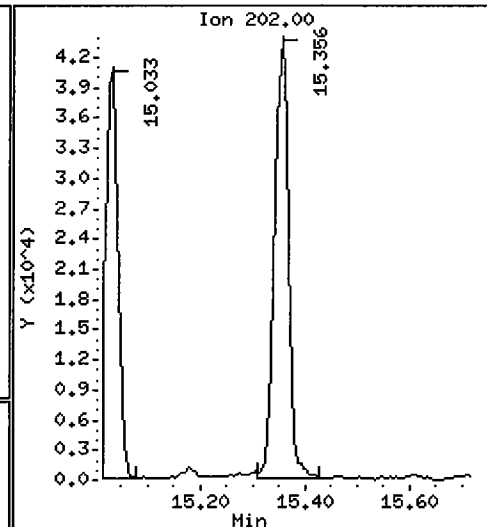
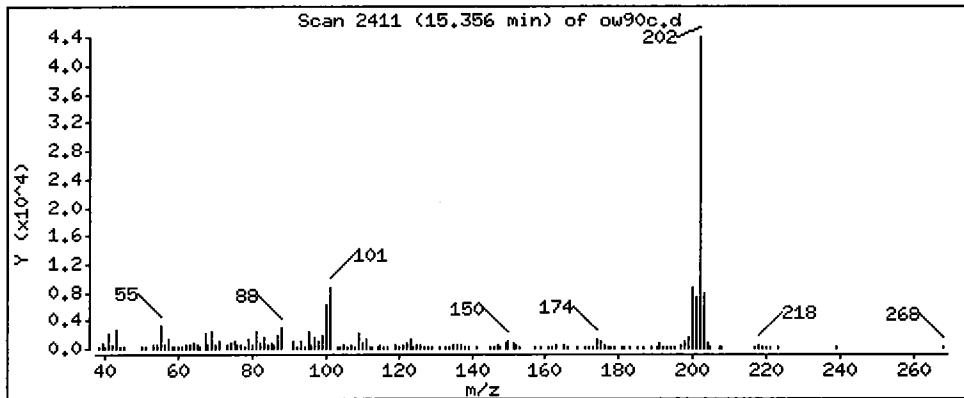
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

65 Pyrene

Concentration: 72.51 ug/kg



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

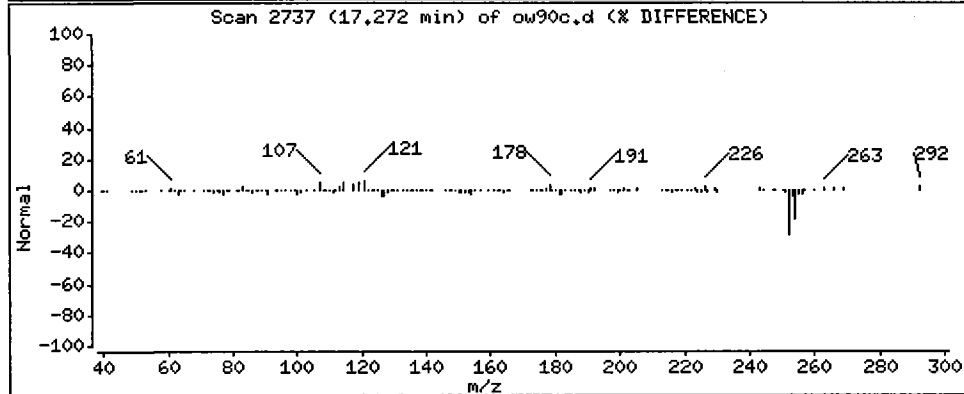
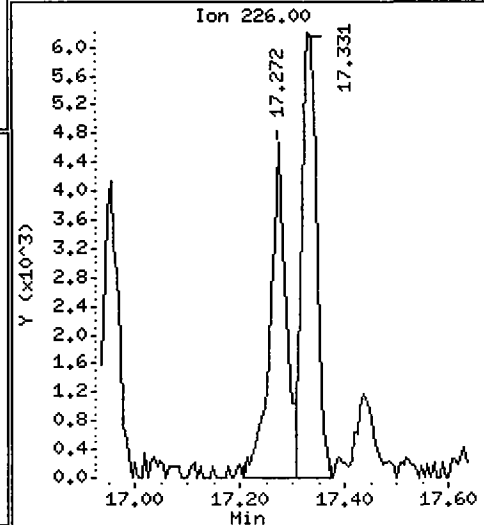
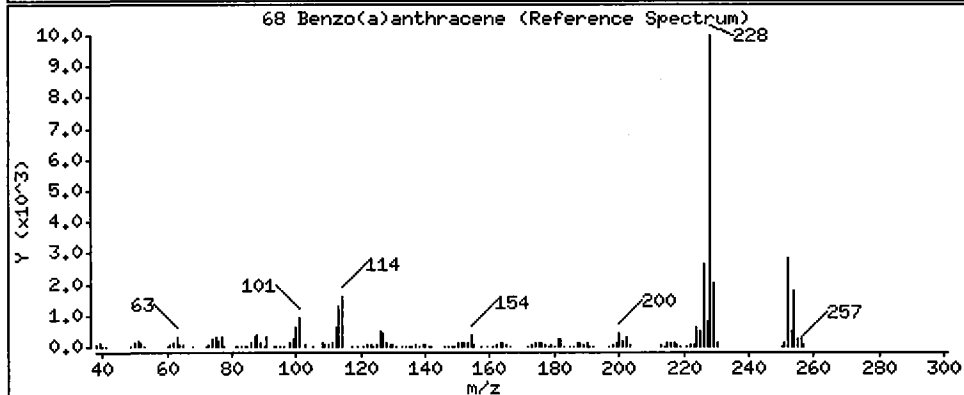
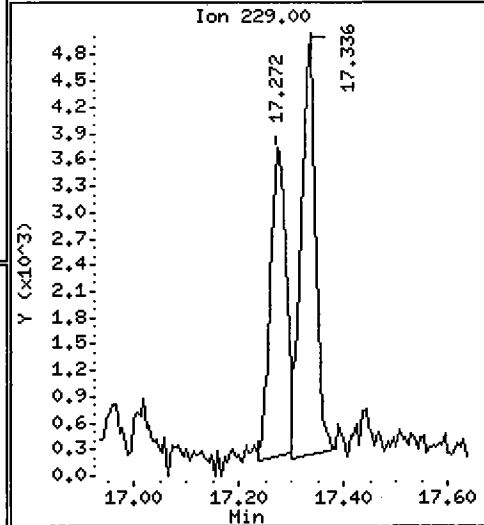
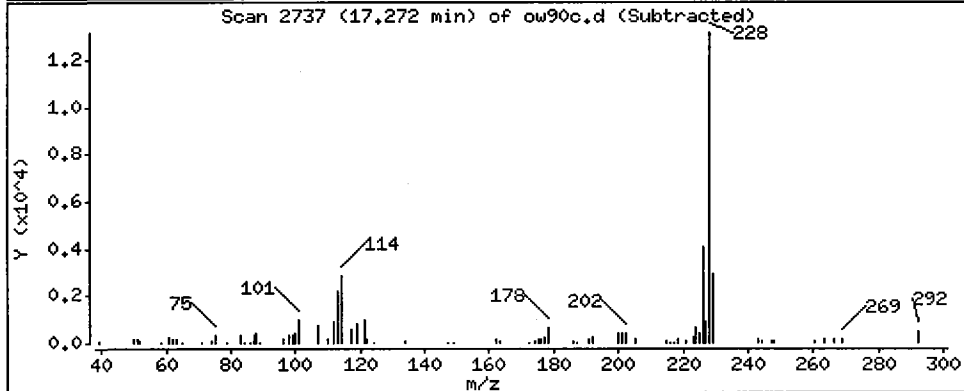
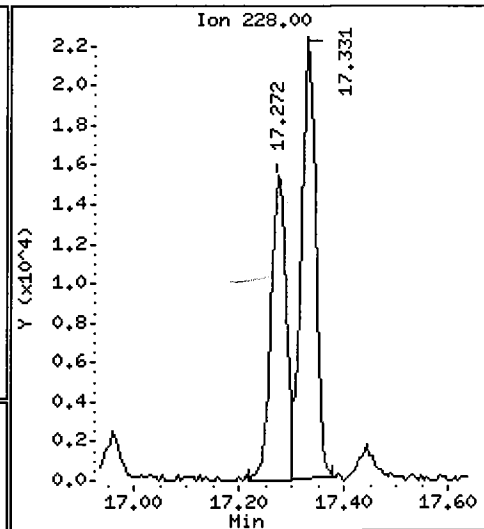
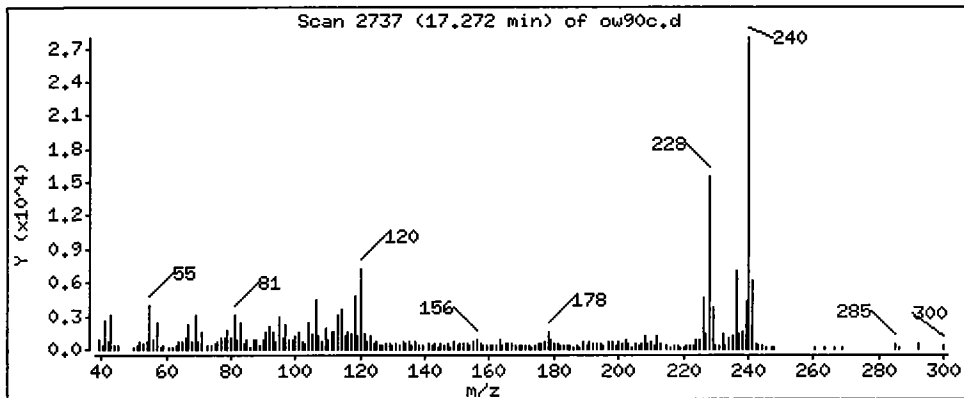
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

68 Benzo(a)anthracene

Concentration: 31.54 ug/kg



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

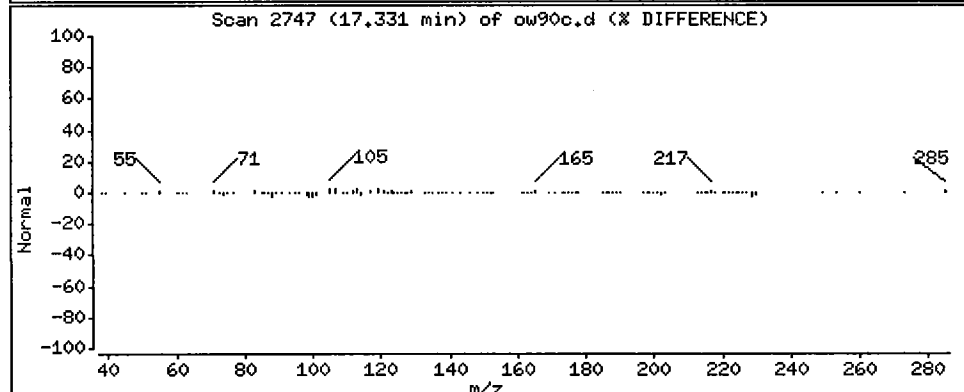
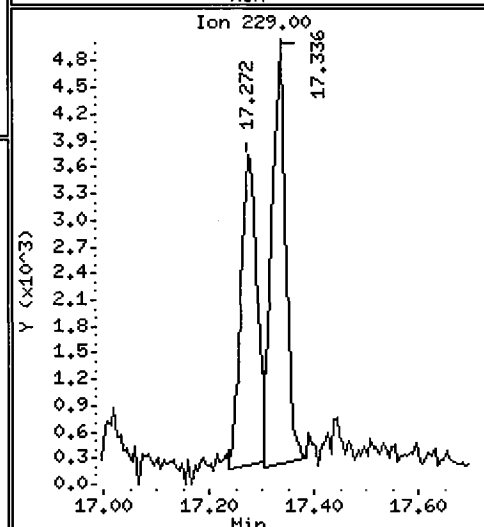
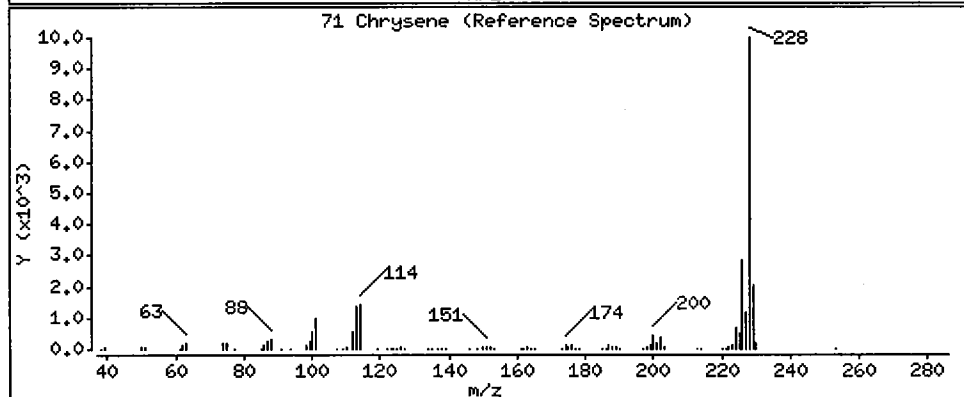
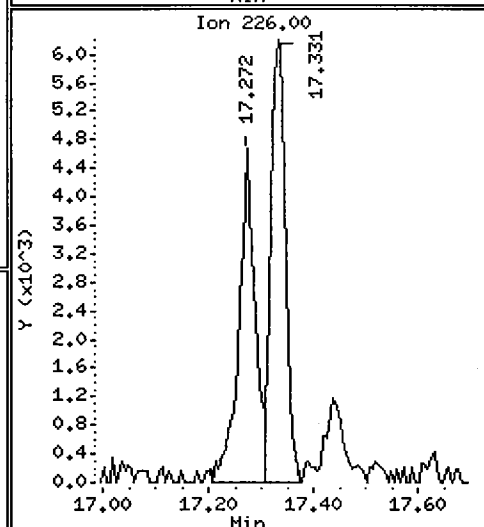
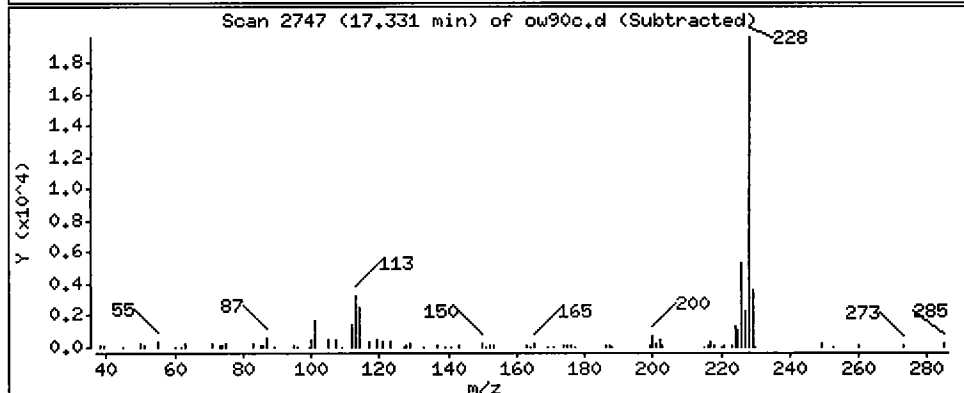
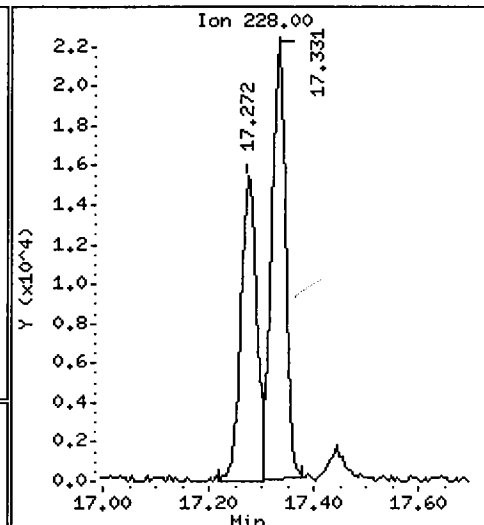
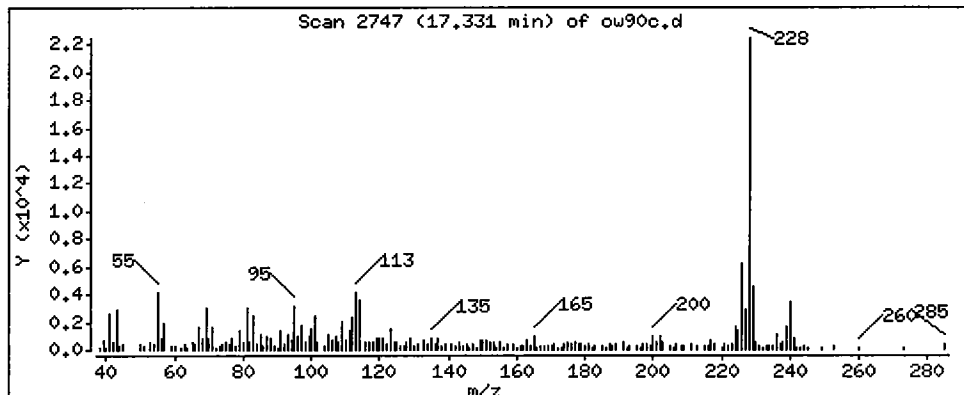
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

71 Chrysene

Concentration: 42.23 ug/kg



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

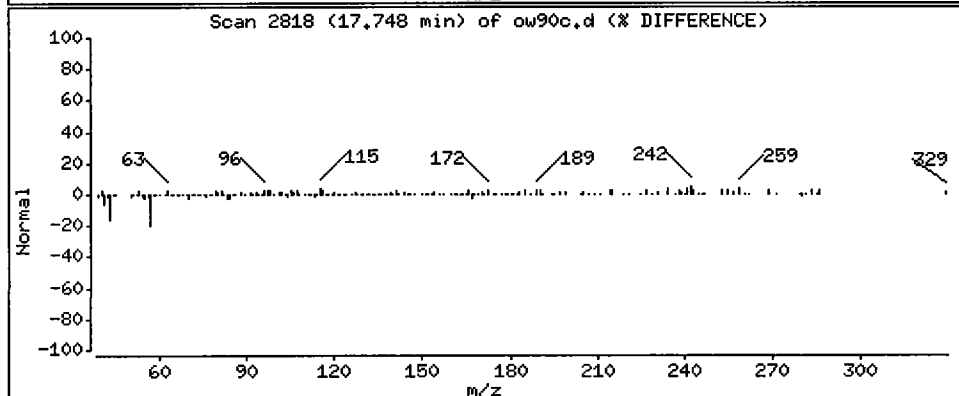
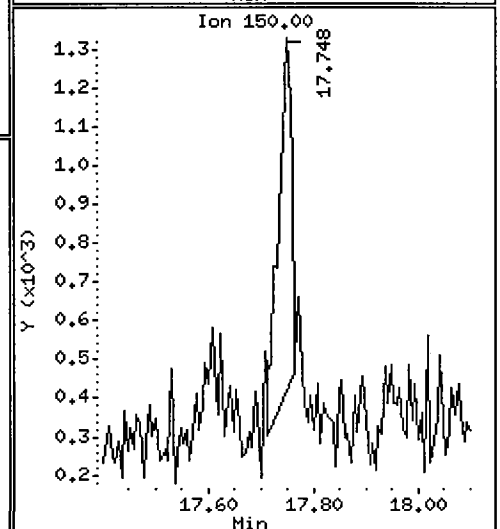
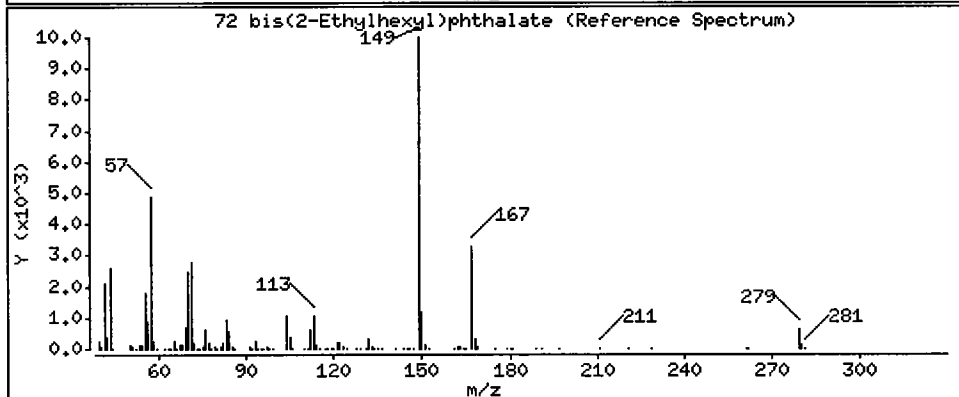
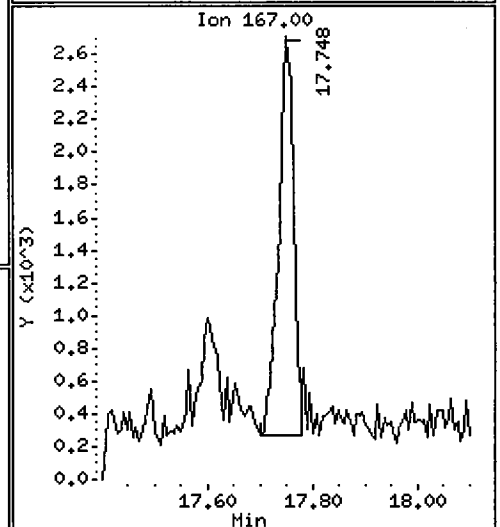
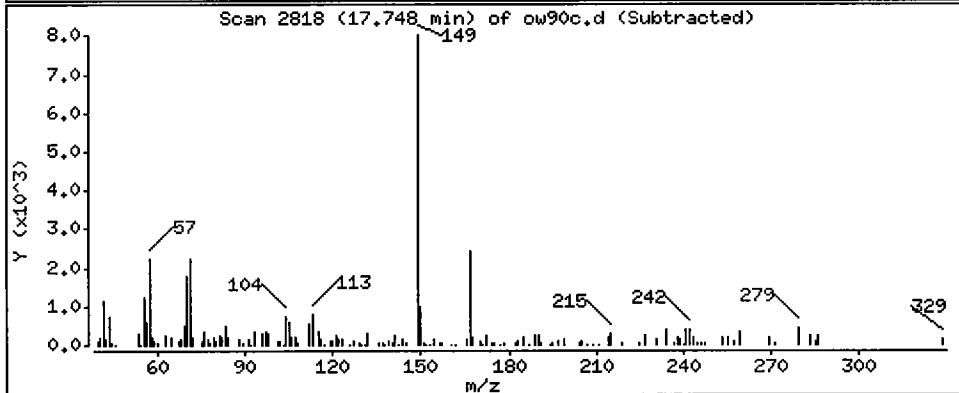
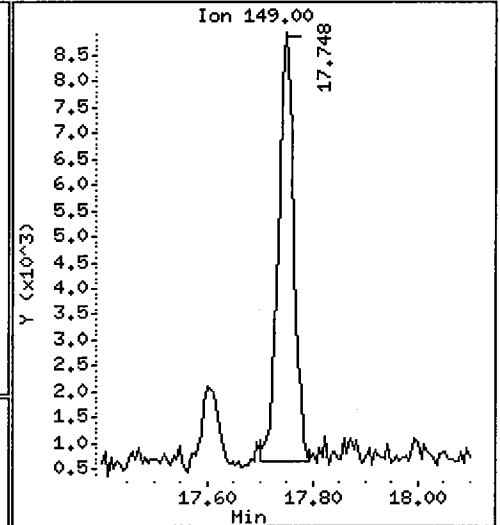
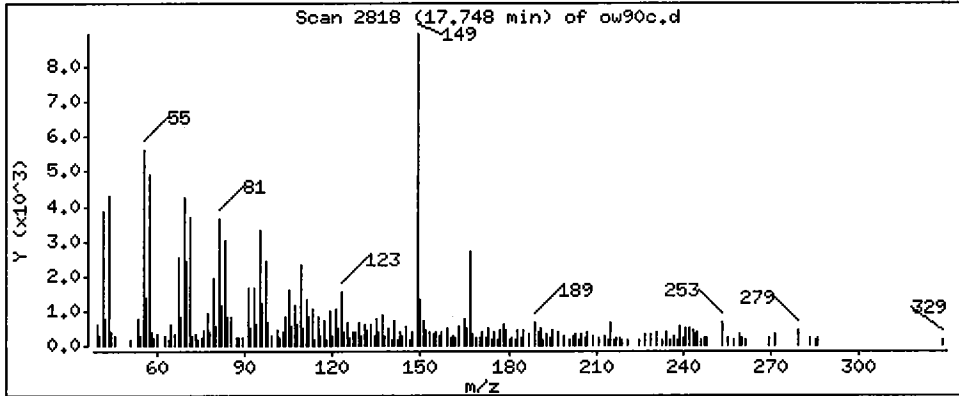
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

72 bis(2-Ethylhexyl)phthalate

Concentration: 21.11 ug/kg



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

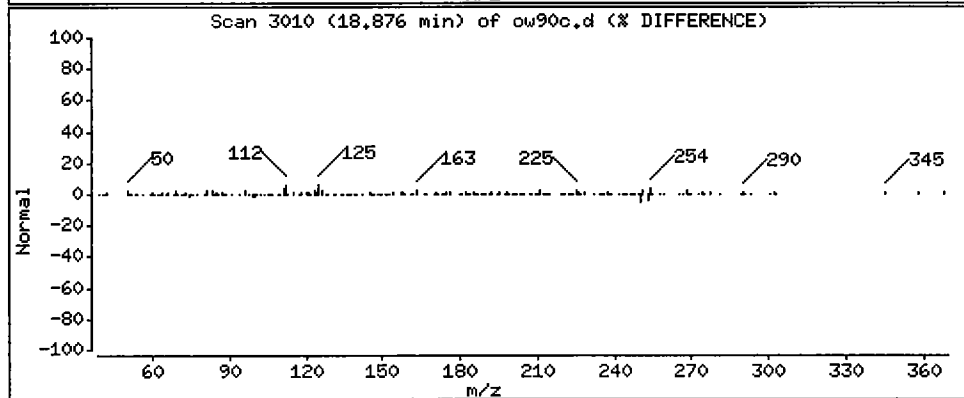
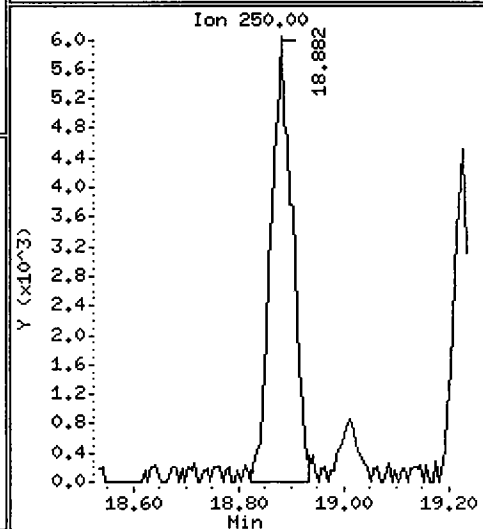
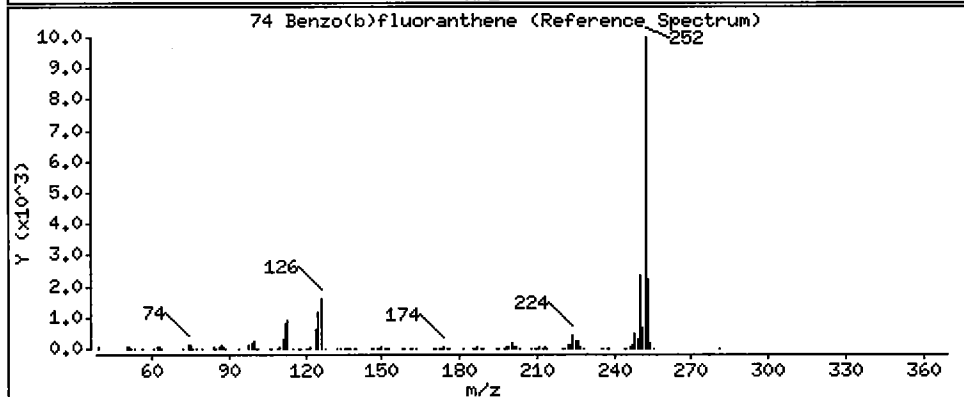
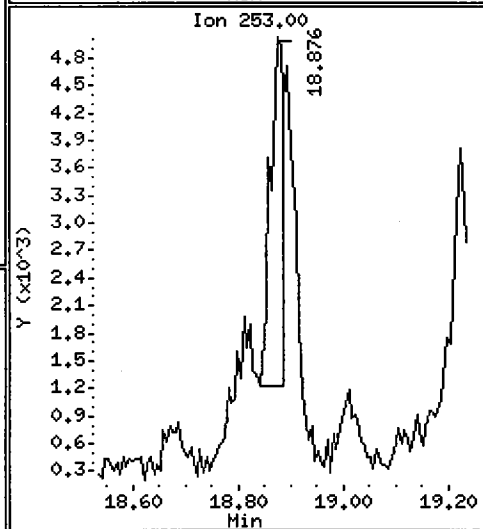
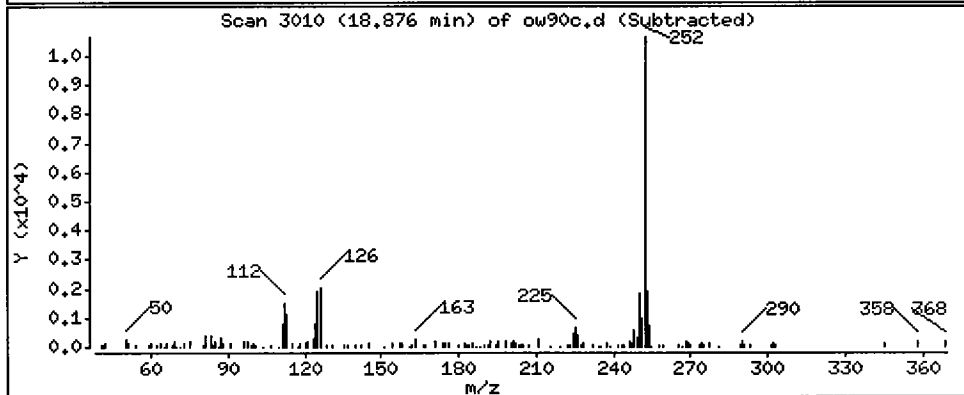
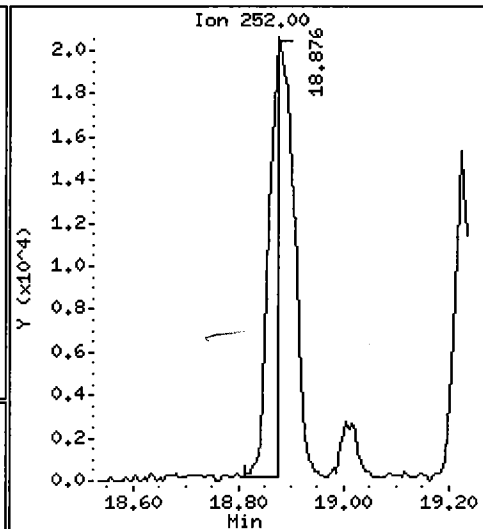
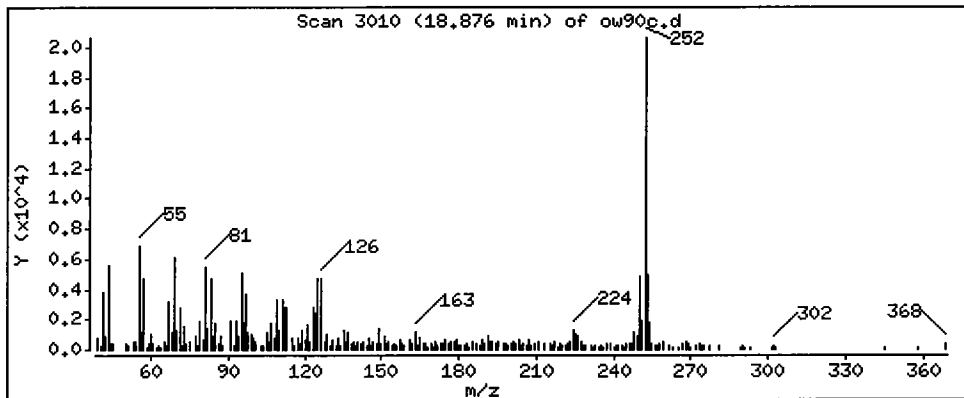
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

74 Benzo(b)fluoranthene

Concentration: 25.90 ug/kg



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: DW90C

Volume Injected (uL): 1.0

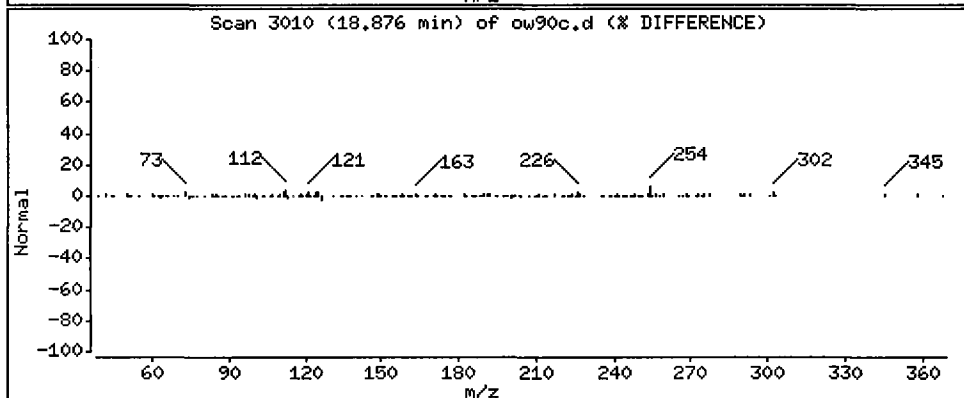
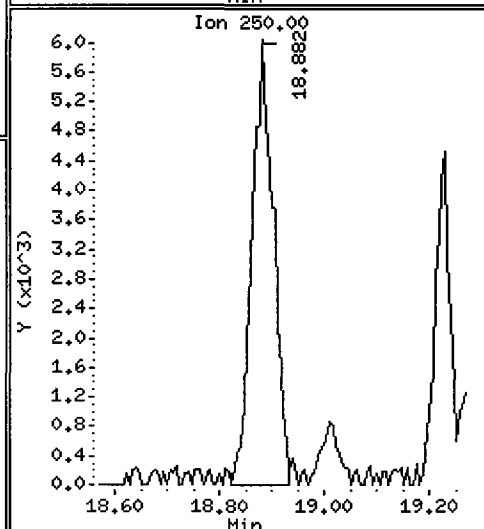
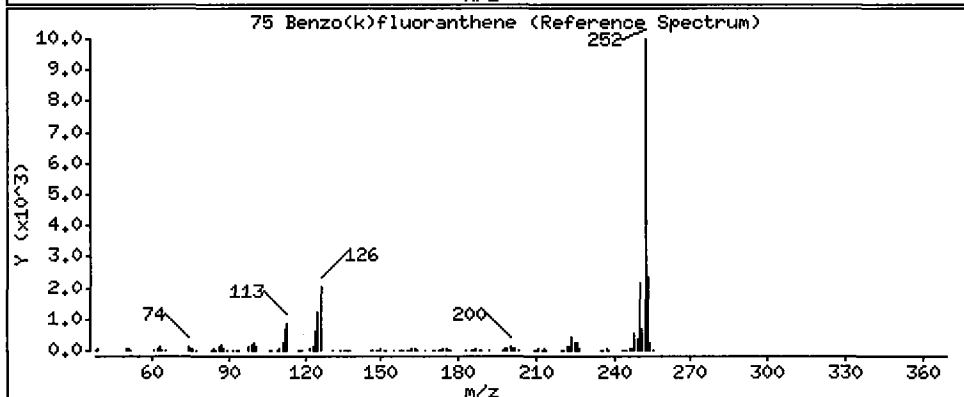
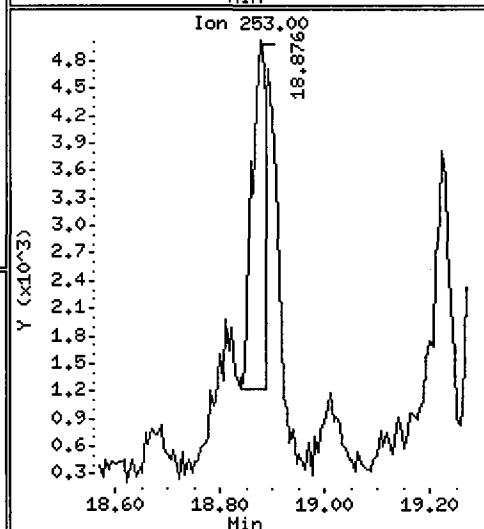
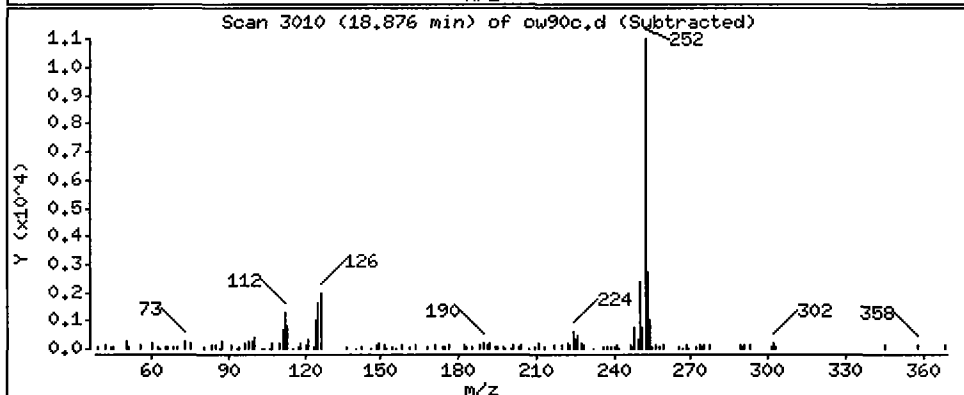
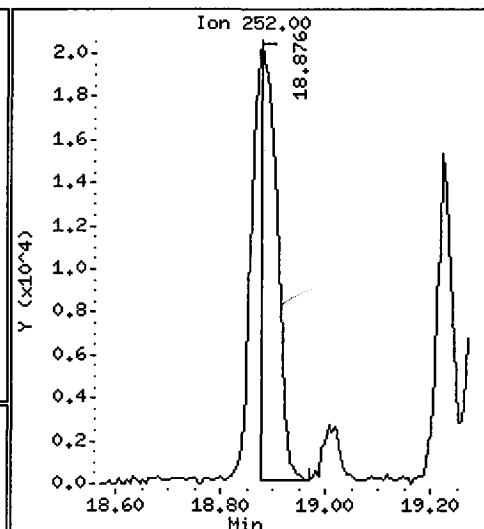
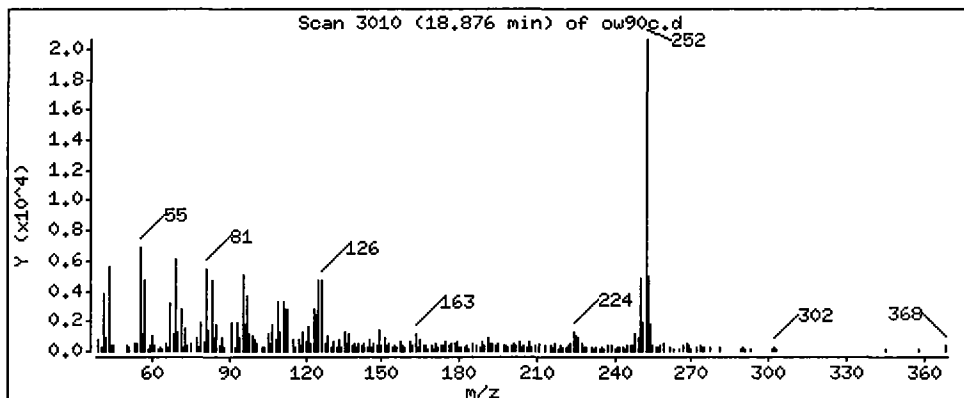
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 41.84 ug/kg



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

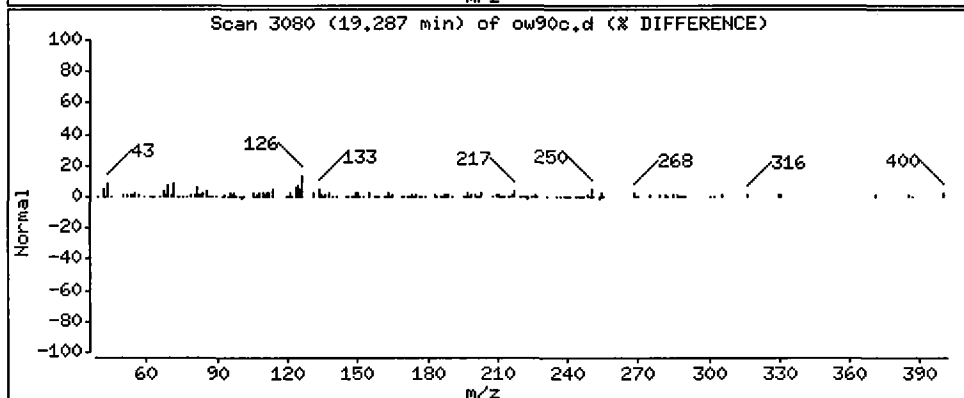
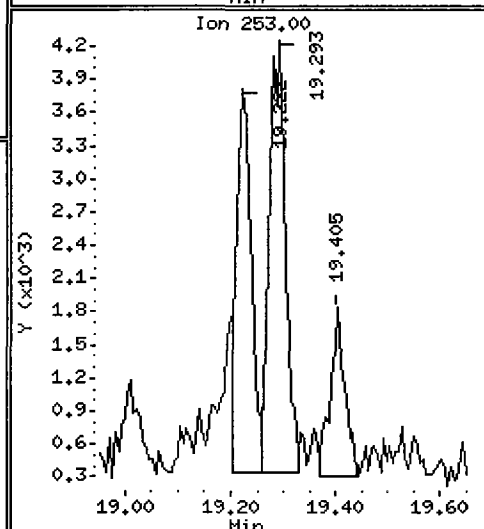
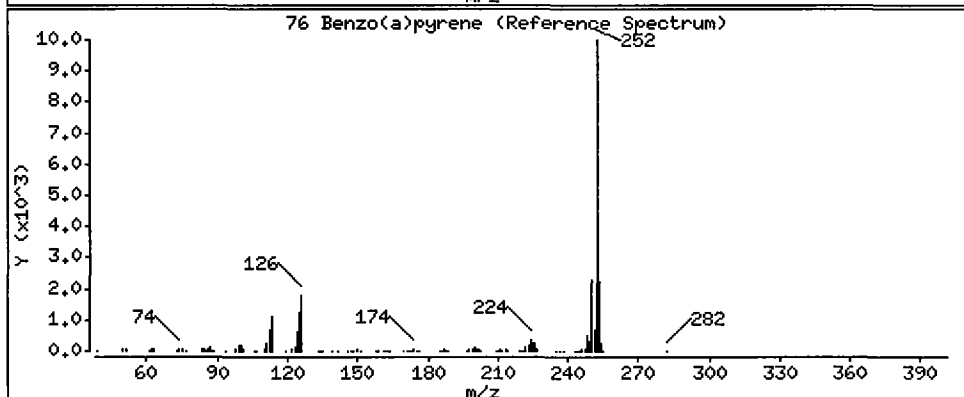
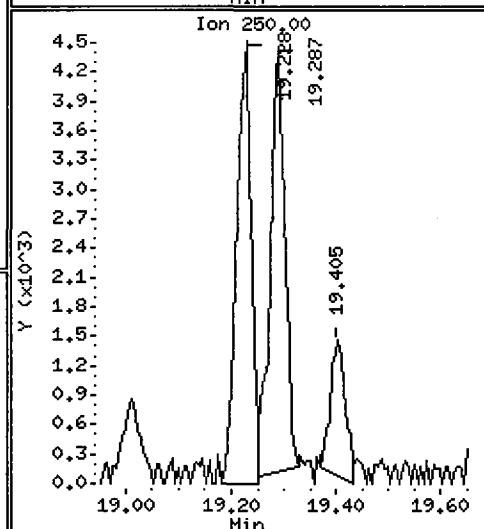
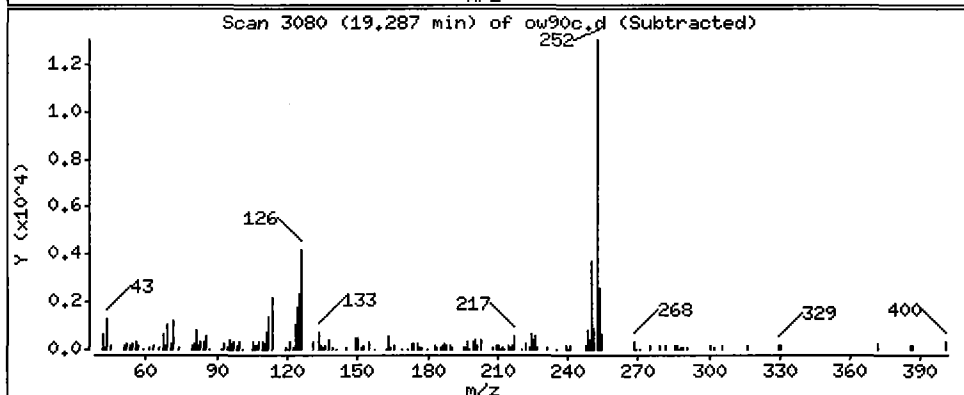
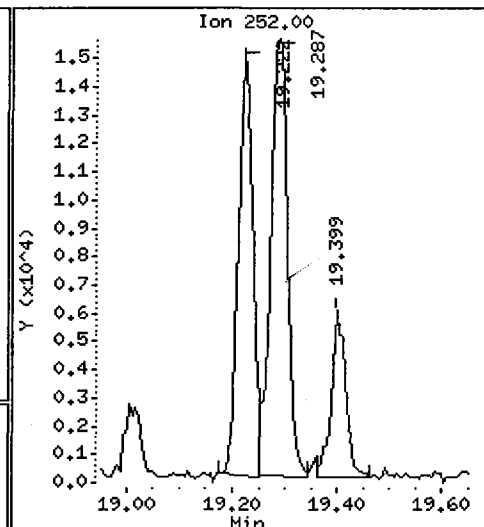
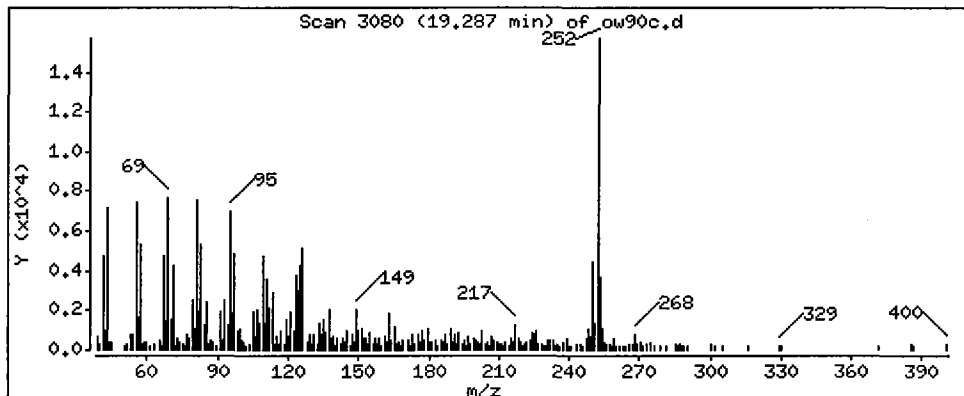
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

76 Benzo(a)pyrene

Concentration: 34.45 ug/kg



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

Operator: LJR/VTS

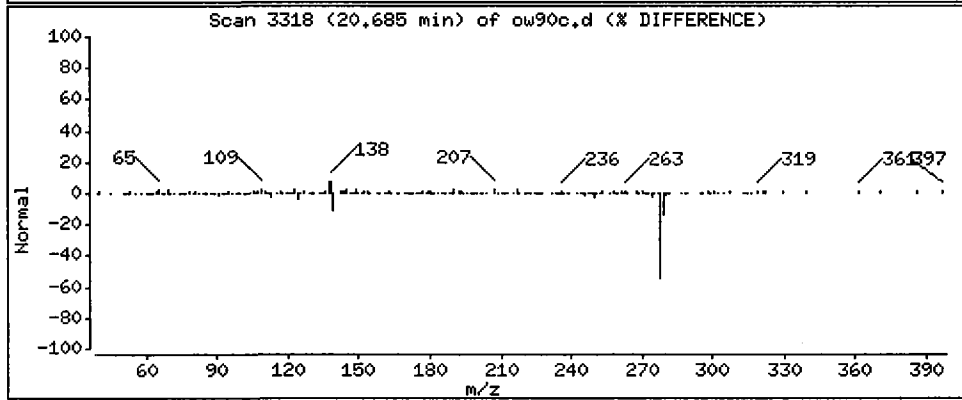
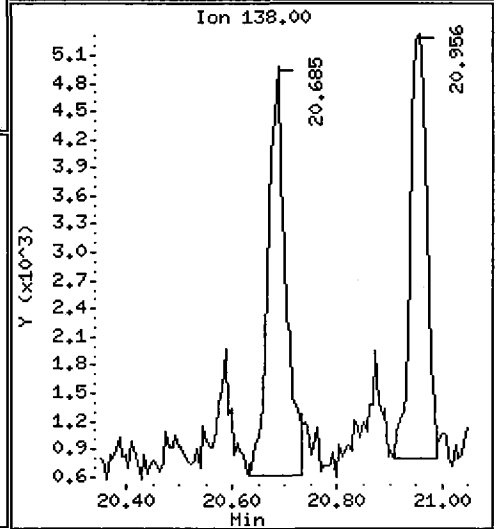
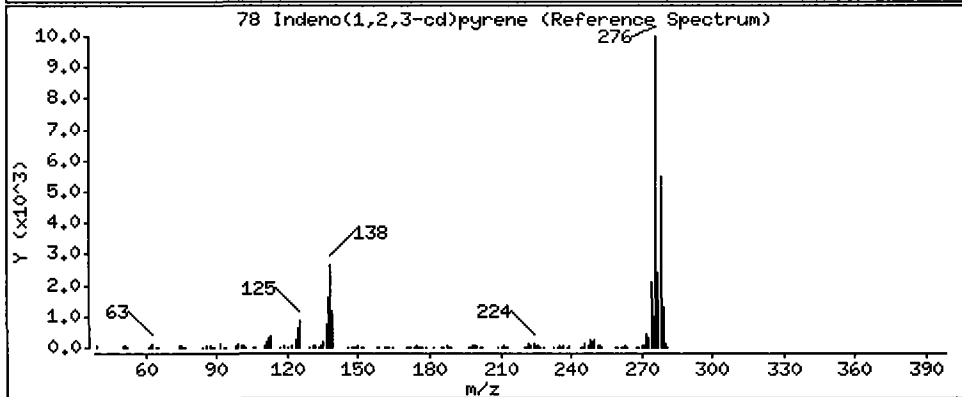
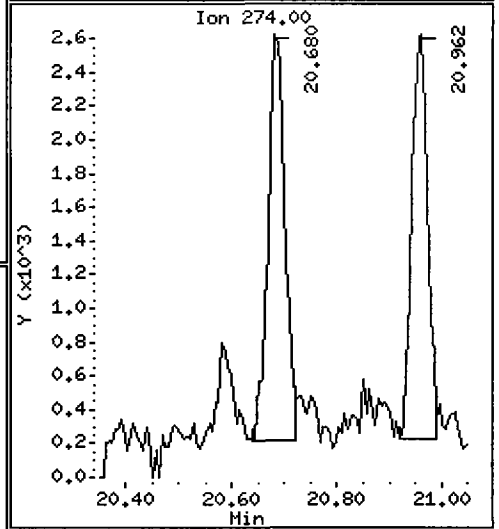
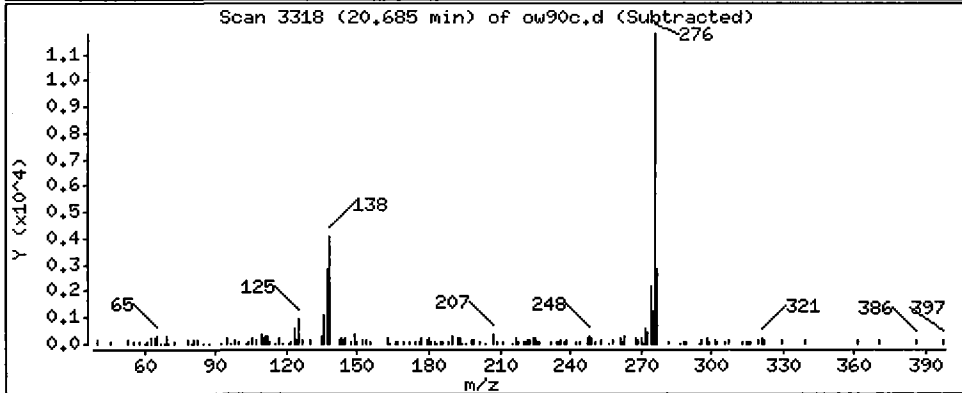
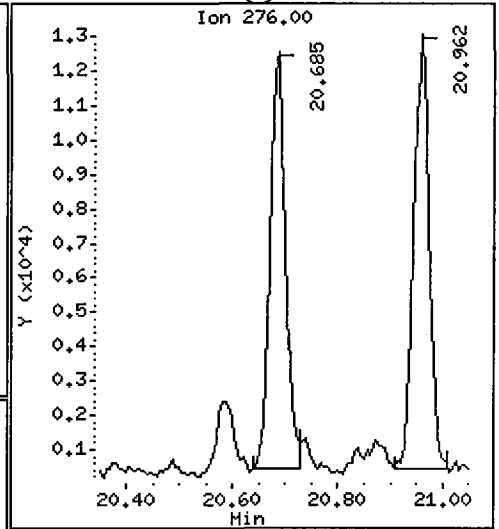
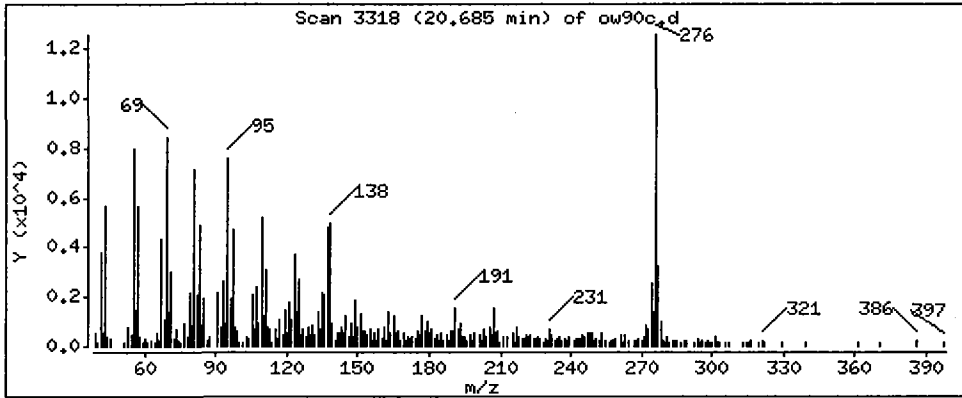
Column phase: ZB-5

Column diameter: 0.32

78 Indeno(1,2,3-cd)pyrene

Concentration: 19.38 ug/kg

5.46



Date : 06-MAY-2009 19:20

Client ID: 10654009

Instrument: nt4.i

Sample Info: OW90C

Volume Injected (uL): 1.0

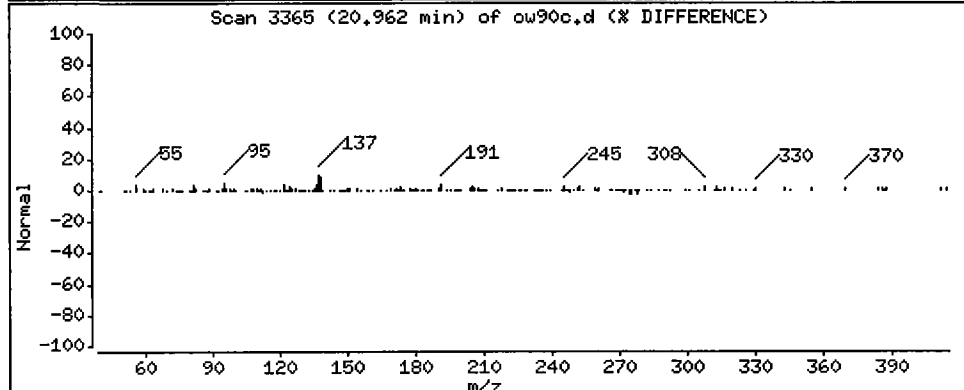
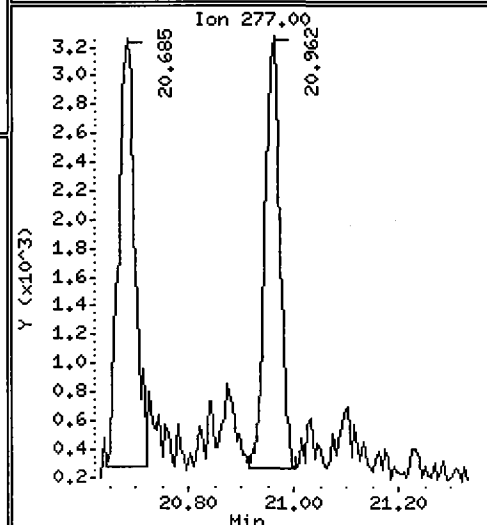
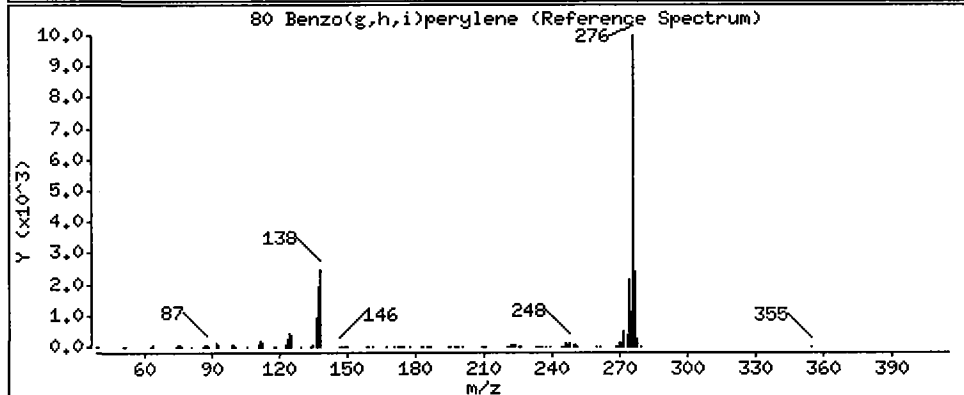
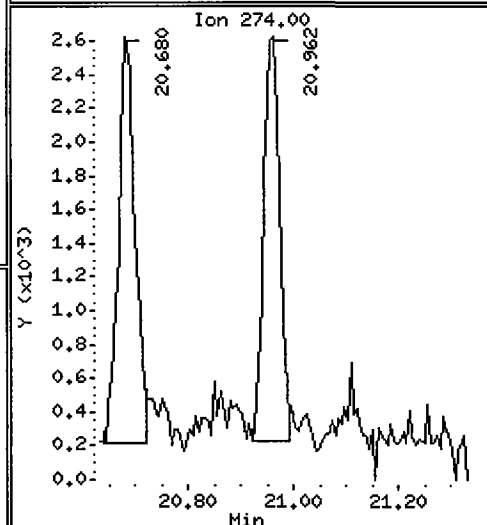
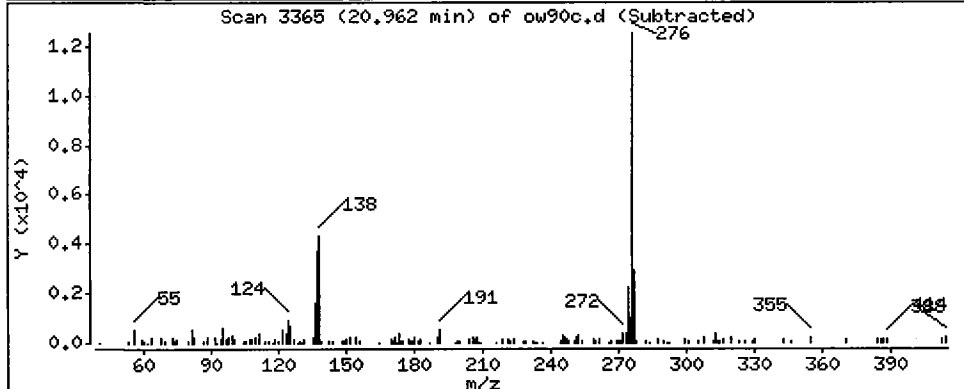
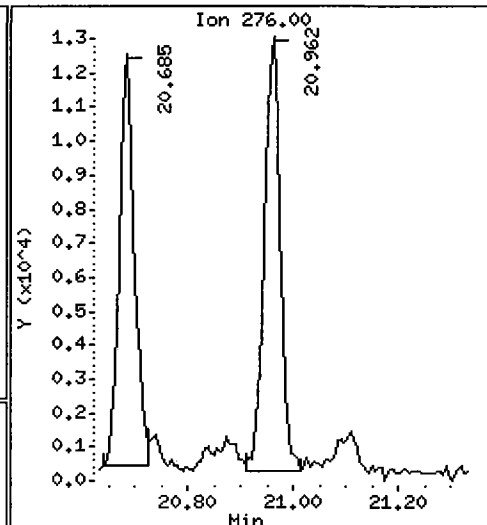
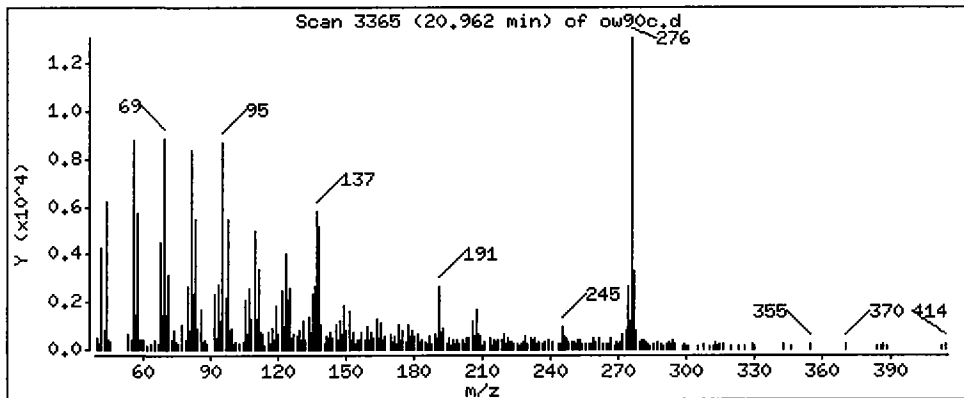
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32


80 Benzo(g,h,i)perylene

Concentration: 23.65 ug/kg



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654011
SAMPLE

Lab Sample ID: OW90D
 LIMS ID: 09-10071
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 19:53
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.3 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 50.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	32
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	Phenanthrene	20	14 J
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	22
129-00-0	Pyrene	20	20
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	19 J
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	12 J
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.4%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	73.2%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	64.0%	2-Fluorophenol	65.3%
2,4,6-Tribromophenol	77.6%	d4-2-Chlorophenol	64.8%

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090506.b/ow90d.d
 Lab Smp Id: OW90D Client Smp ID: 10654011
 Inj Date : 06-MAY-2009 19:53
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90D
 Misc Info : 09-10071
 Comment : lul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:50 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 3.50

LJR
5/7/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	51.40000	Weight of sample extracted (g)
M	50.80000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112		3.659	3.619	(0.613)	277789	24.5178	484.8
\$ 2 Phenol-d5	99		5.756	5.734	(0.965)	362927	23.9890	474.3
3 Phenol	94		5.786	5.752	(0.969)	29130	1.62962	32.22
\$ 5 2-Chlorophenol-d4	132		5.686	5.676	(0.953)	220934	24.3298	481.0
4 Bis(2-Chloroethyl) ether	93							
6 2-Chlorophenol	128							
7 1,3-Dichlorobenzene	146							
* 8 1,4-Dichlorobenzene-d4	152		5.968	5.975	(1.000)	138642	20.0000	
9 1,4-Dichlorobenzene	146							
\$ 10 1,2-Dichlorobenzene-d4	152		6.279	6.281	(1.052)	100792	15.6624	309.7
12 1,2-Dichlorobenzene	146							
11 Benzyl alcohol	108							
14 2,2'-oxybis(1-Chloropropane)	45							
13 2-Methylphenol	108							
17 Hexachloroethane	117							

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
15 4-Methylphenol	108				Compound Not Detected.		
\$ 18 Nitrobenzene-d5	82	6.972	6.980	(0.864)	195511	15.1237	299.0
19 Nitrobenzene	77				Compound Not Detected.		
20 Isophorone	82				Compound Not Detected.		
21 2-Nitrophenol	139				Compound Not Detected.		
22 2,4-Dimethylphenol	107				Compound Not Detected.		
23 Bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
24 Benzoic acid	105				Compound Not Detected.		
25 2,4-Dichlorophenol	162				Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
* 27 Naphthalene-d8	136	8.065	8.073	(1.000)	471676	20.0000	
28 Naphthalene	128				Compound Not Detected.		
29 4-Chloroaniline	127				Compound Not Detected.		
30 Hexachlorobutadiene	225				Compound Not Detected.		
31 4-Chloro-3-methylphenol	107				Compound Not Detected.		
32 2-Methylnaphthalene	141				Compound Not Detected.		
33 Hexachlorocyclopentadiene	237				Compound Not Detected.		
34 2,4,6-Trichlorophenol	196				Compound Not Detected.		
35 2,4,5-Trichlorophenol	196				Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172	9.887	9.894	(0.910)	303393	17.6509	349.0
37 2-Chloronaphthalene	162				Compound Not Detected.		
38 2-Nitroaniline	65				Compound Not Detected.		
39 Dimethylphthalate	163				Compound Not Detected.		
40 Acenaphthylene	152				Compound Not Detected.		
41 2,6-Dinitrotoluene	165				Compound Not Detected.		
* 42 Acenaphthene-d10	164	10.862	10.864	(1.000)	232482	20.0000	
43 3-Nitroaniline	138				Compound Not Detected.		
44 Acenaphthene	153				Compound Not Detected.		
45 2,4-Dinitrophenol	184				Compound Not Detected.		
46 Dibenzofuran	168				Compound Not Detected.		
47 4-Nitrophenol	109				Compound Not Detected.		
48 2,4-Dinitrotoluene	165				Compound Not Detected.		
50 Diethylphthalate	149	11.796	11.810	(1.086)	11783	0.68815	13.61 <i>EMAL</i>
49 Fluorene	166				Compound Not Detected.		
51 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
52 4-Nitroaniline	138				Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
54 N-Nitrosodiphenylamine	169				Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330	12.125	12.133	(1.116)	58084	29.0532	574.4
56 4-Bromophenyl-phenylether	248				Compound Not Detected.		
57 Hexachlorobenzene	284				Compound Not Detected.		
58 Pentachlorophenol	266				Compound Not Detected.		
* 59 Phenanthrene-d10	188	13.136	13.143	(1.000)	323919	20.0000	
60 Phenanthrene	178	13.171	13.179	(1.003)	15525	0.73434	14.52 (M)
61 Anthracene	178				Compound Not Detected.		
62 Carbazole	167				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149				Compound Not Detected.		
64 Fluoranthene	202	15.039	15.041	(1.145)	22931	1.09802	21.71
65 Pyrene	202	15.357	15.364	(0.888)	19737	1.00179	19.81
\$ 66 Terphenyl-d14	244	15.774	15.776	(0.912)	218530	18.2626	361.1
67 Butylbenzylphthalate	149				Compound Not Detected.		
68 Benzo(a)anthracene	228				Compound Not Detected.		
* 69 Chrysene-d12	240	17.296	17.309	(1.000)	245534	20.0000	
70 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
71 Chrysene	228	17.331	17.344	(1.002)	16380	0.95268	18.84
72 bis(2-Ethylhexyl)phthalate	149				Compound Not Detected.		
* 134 Di-n-octylphthalate-d4	153	18.665	18.672	(1.000)	446062	20.0000	
73 Di-n-octylphthalate	149				Compound Not Detected.		
74 Benzo(b)fluoranthene	252				Compound Not Detected.		
75 Benzo(k)fluoranthene	252	18.876	18.919	(0.975)	10602	0.58939	11.65 (M)
76 Benzo(a)pyrene	252				Compound Not Detected.		
* 77 Perylene-d12	264	19.370	19.383	(1.000)	261074	20.0000	
78 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
80 Benzo(g,h,i)perylene	276				Compound Not Detected.		
90 N-Nitrosodimethylamine	74				Compound Not Detected.		
91 Aniline	93				Compound Not Detected.		
93 Benzidine	184				Compound Not Detected.		
103 Pyridine	79				Compound Not Detected.		
105 1-methylnaphthalene	141				Compound Not Detected.		
111 Azobenzene (1,2-DP-Hydrazine)	77				Compound Not Detected.		

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90d.d
 Lab Smp Id: OW90D
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10071

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: 10654011
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	138642	-19.61
27 Naphthalene-d8	608124	304062	1216248	471676	-22.44
42 Acenaphthene-d10	305977	152988	611954	232482	-24.02
59 Phenanthrene-d10	428646	214323	857292	323919	-24.43
69 Chrysene-d12	348476	174238	696952	245534	-29.54
134 Di-n-octylphthala	674761	337380	1349522	446062	-33.89
77 Perylene-d12	426588	213294	853176	261074	-38.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.13
27 Naphthalene-d8	8.07	7.57	8.57	8.07	-0.09
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	-0.02
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	-0.06
69 Chrysene-d12	17.31	16.81	17.81	17.30	-0.08
134 Di-n-octylphthala	18.67	18.17	19.17	18.66	-0.04
77 Perylene-d12	19.38	18.88	19.88	19.37	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix
 Sample Matrix: SOLID
 Lab Smp Id: OW90D
 Level: LOW
 Data Type: MS DATA
 SpikeList File: PSDDALCS.spk
 Sublist File: PSDDA.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10071

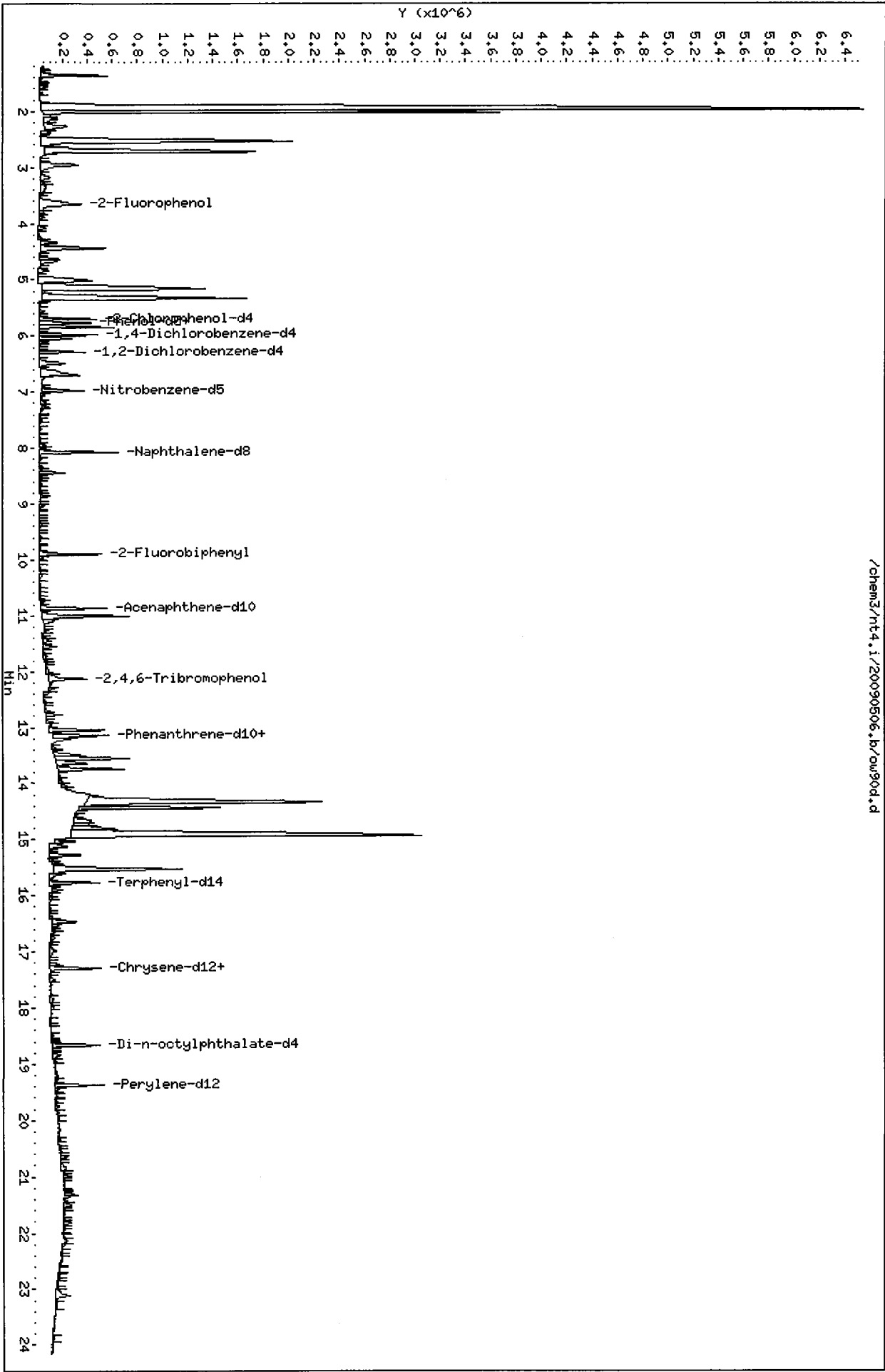
Client SDG: OW90
 Fraction: SV
 Client Smp ID: 10654011
 Operator: LJR/VTS
 SampleType: SAMPLE
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	741.4	484.8	65.38	10-114
\$ 2 Phenol-d5	741.4	474.3	63.97	29-85
\$ 5 2-Chlorophenol-d4	741.4	481.0	64.88	30-84
\$ 10 1,2-Dichlorobenzen	494.3	309.7	62.65	25-82
\$ 18 Nitrobenzene-d5	494.3	299.0	60.49	29-87
\$ 36 2-Fluorobiphenyl	494.3	349.0	70.60	32-88
\$ 55 2,4,6-Tribromophen	741.4	574.4	77.48	25-103
\$ 66 Terphenyl-d14	494.3	361.1	73.05	21-97

Client ID: 10654011
Sample Info: DM90D
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.1
Operator: LJR/VTS
Column diameter: 0.32

/chem3/nt4.1/20090506.b/ov90d.d



01190 : 00110

Date : 06-MAY-2009 19:53

Client ID: 10654011

Instrument: nt4.i

Sample Info: OW90D

Volume Injected (uL): 1.0

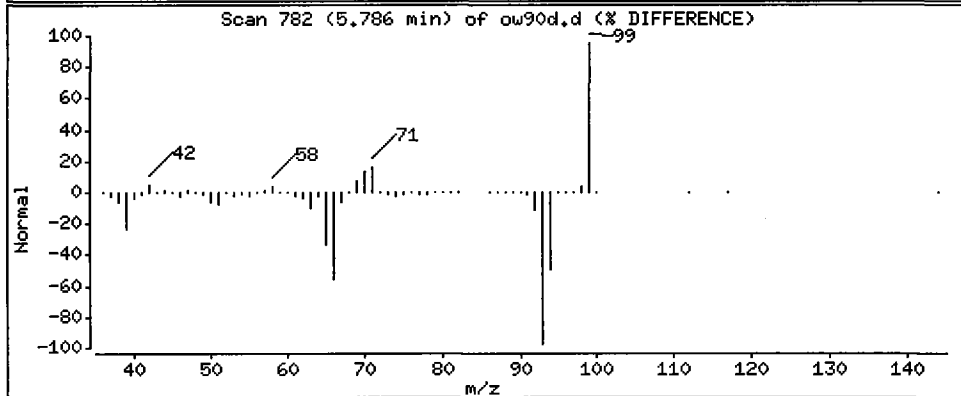
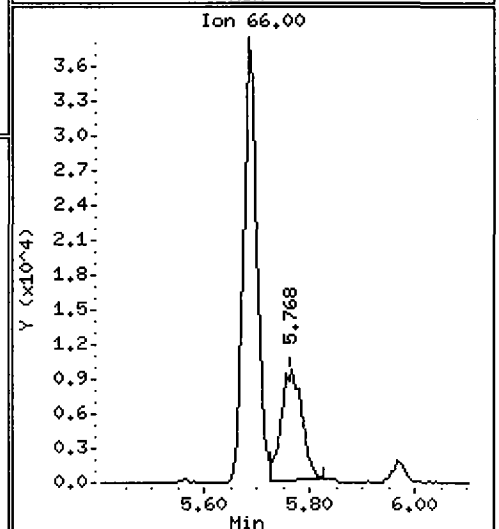
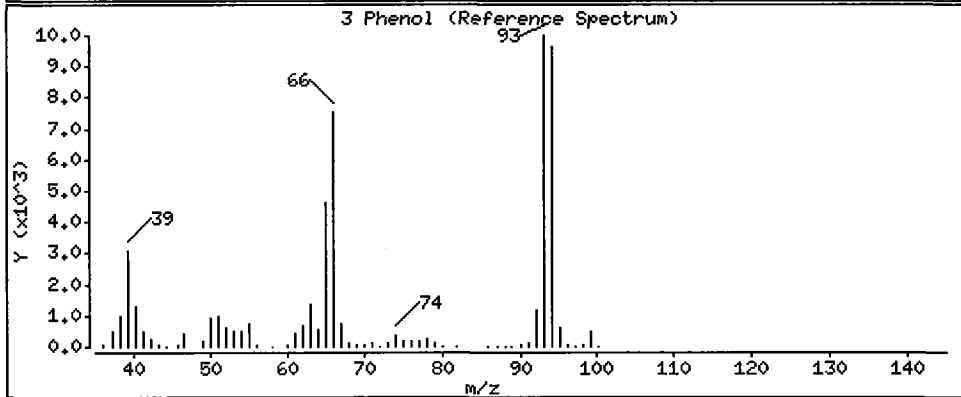
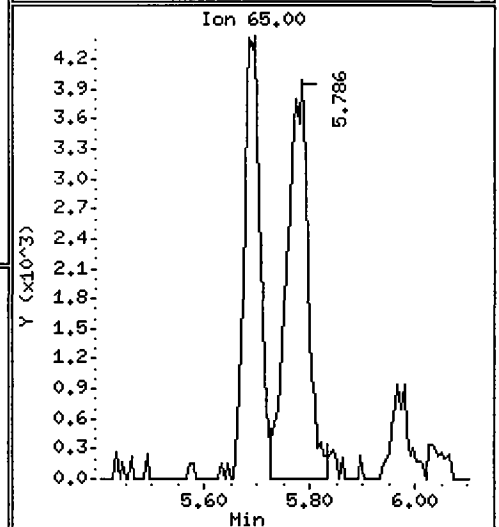
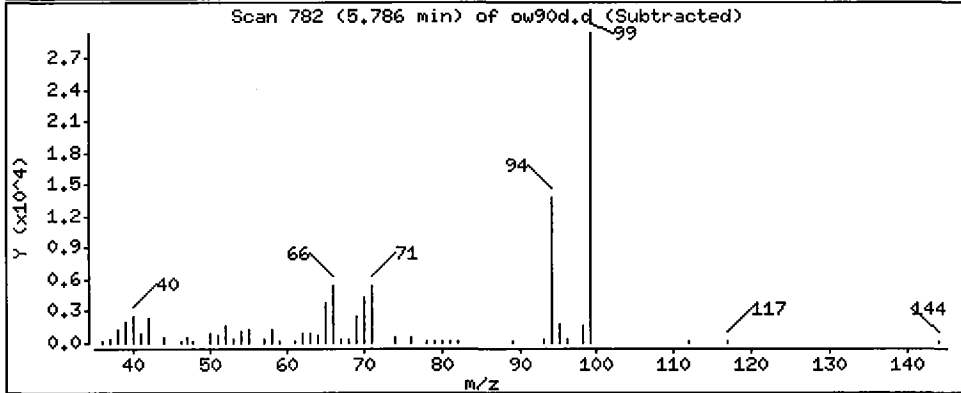
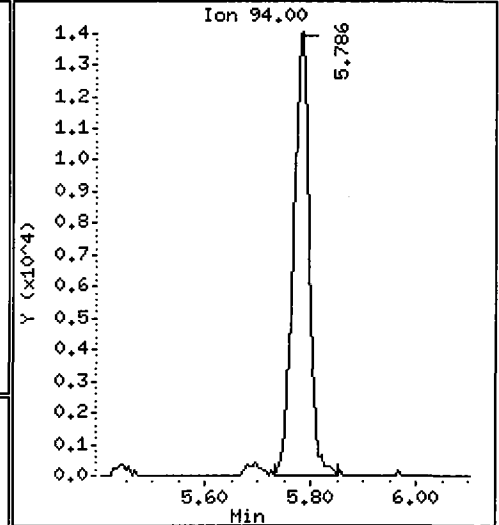
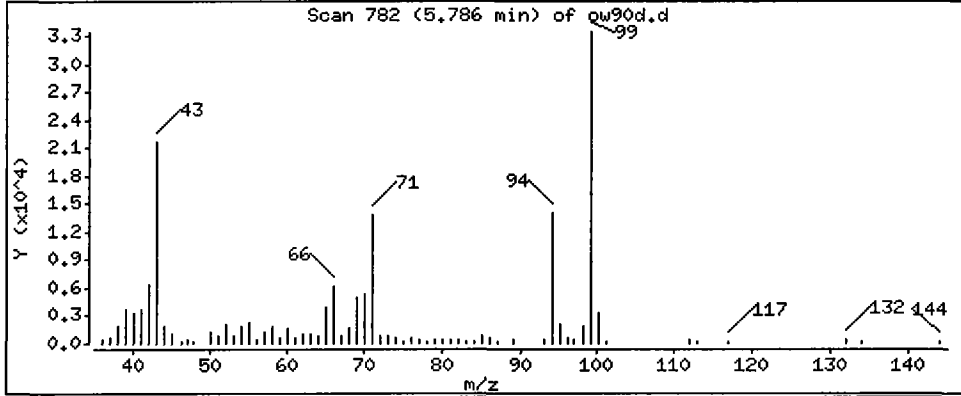
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

3 Phenol

Concentration: 32.22 ug/kg



Date : 06-MAY-2009 19:53

Client ID: 10654011

Instrument: nt4.i

Sample Info: OW90D

Volume Injected (uL): 1.0

Operator: LJR/VTS

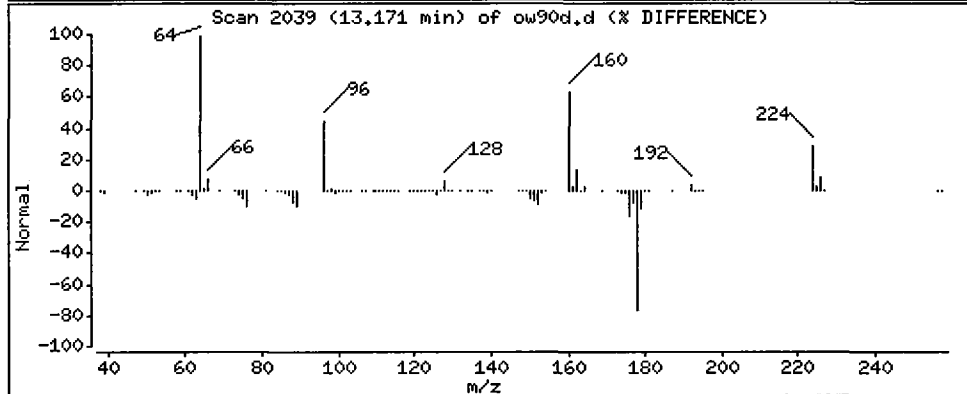
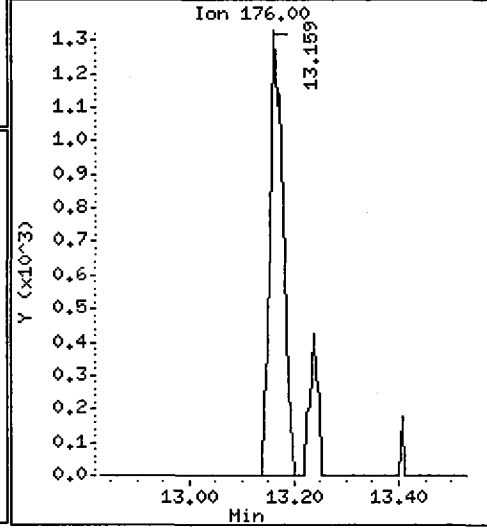
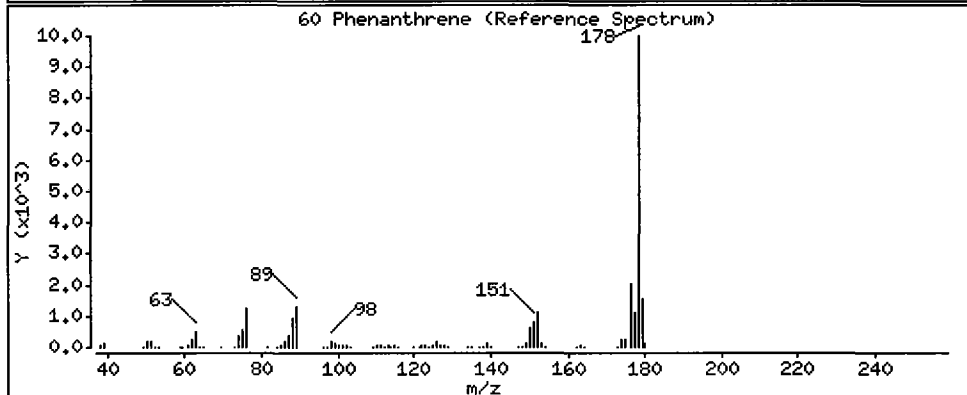
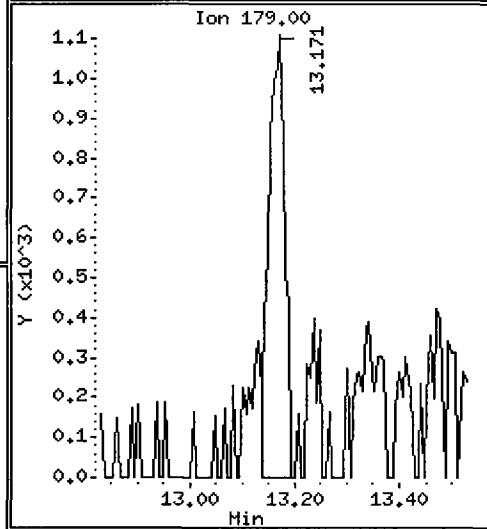
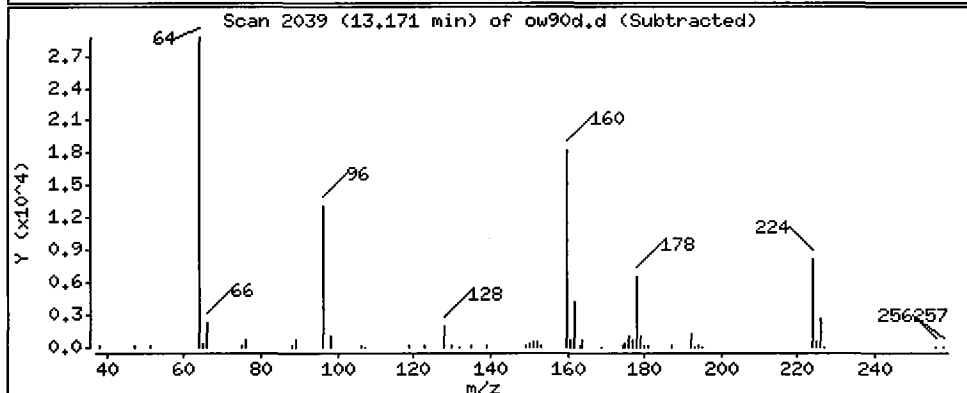
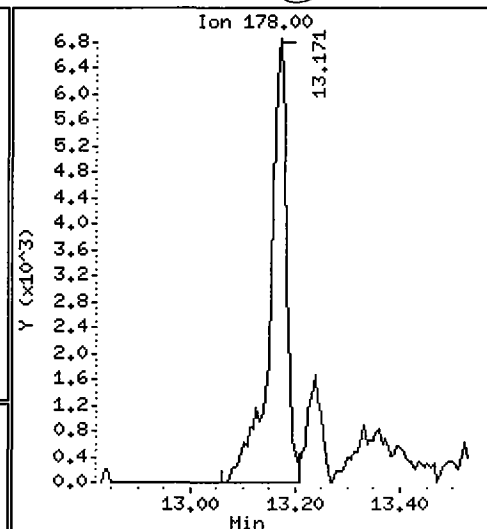
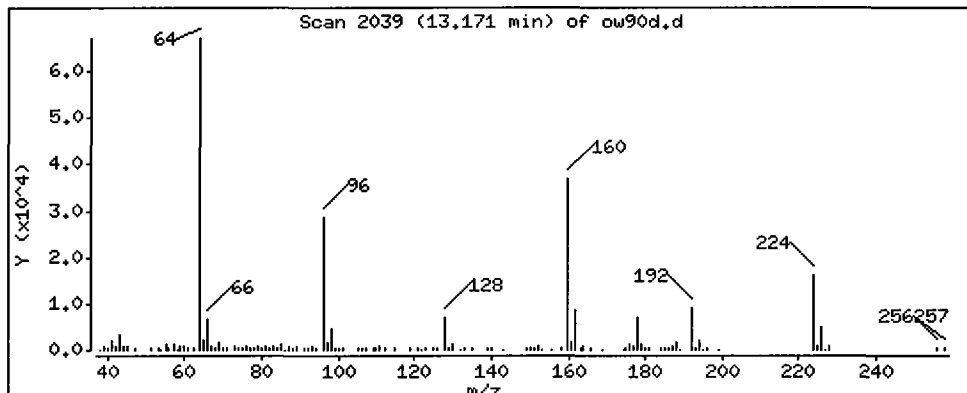
Column phase: ZB-5

Column diameter: 0,32

TLRL

60 Phenanthrene

Concentration: 14,52 ug/kg



Date : 06-MAY-2009 19:53

Client ID: 10654011

Instrument: nt4.i

Sample Info: OW90D

Volume Injected (uL): 1.0

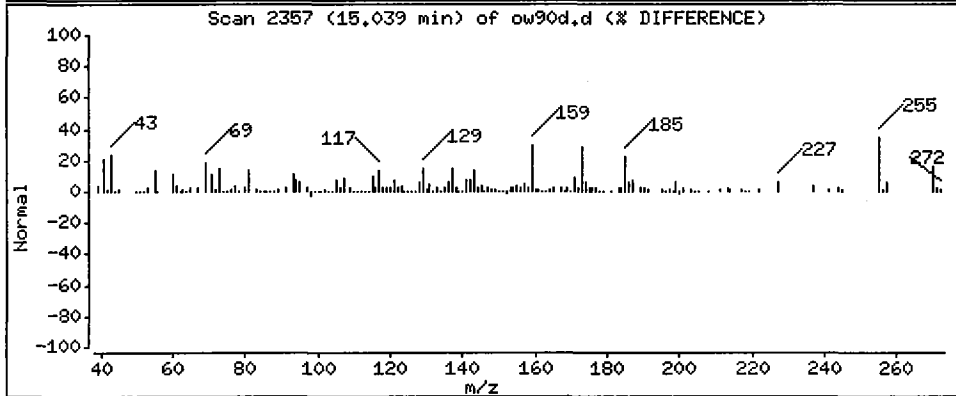
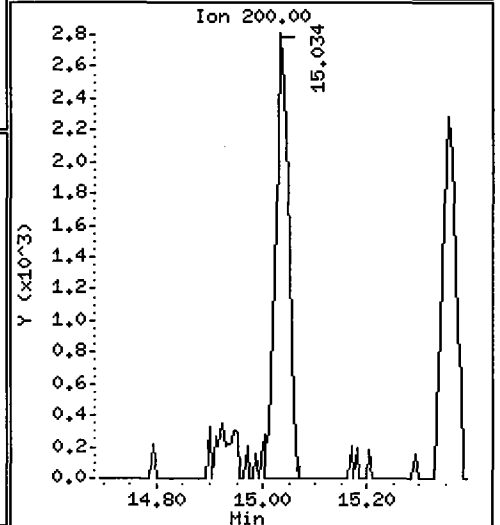
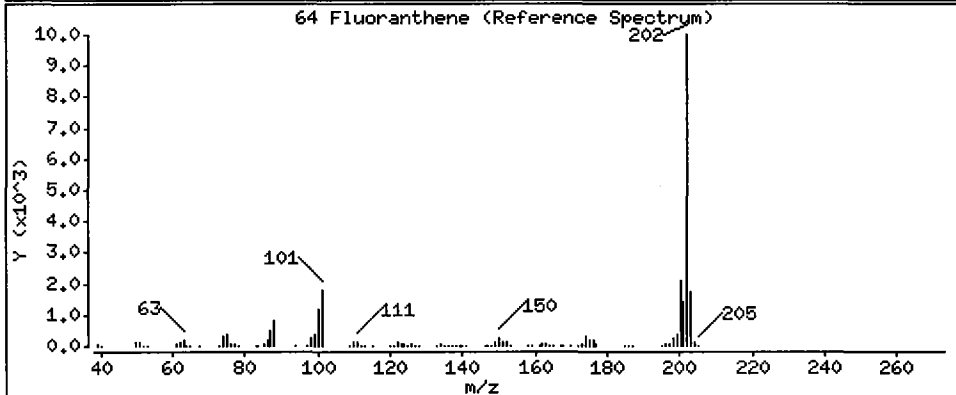
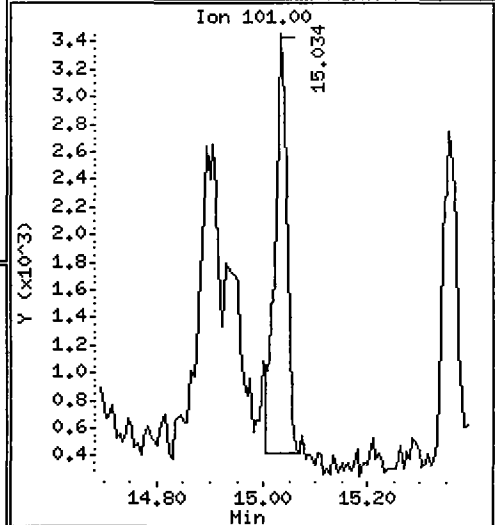
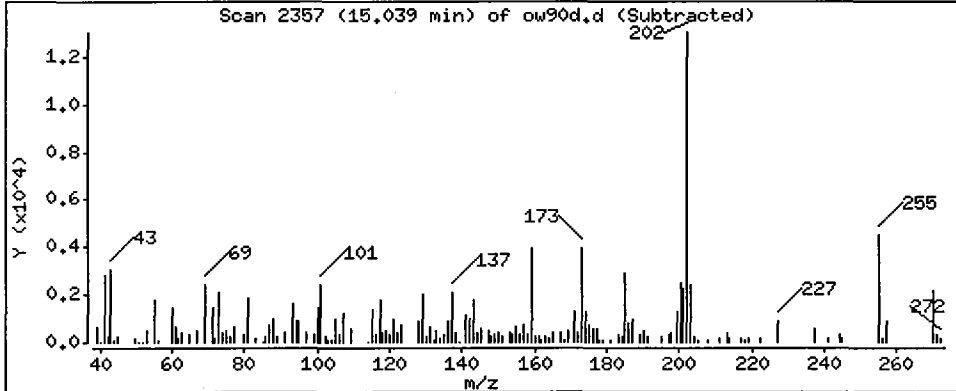
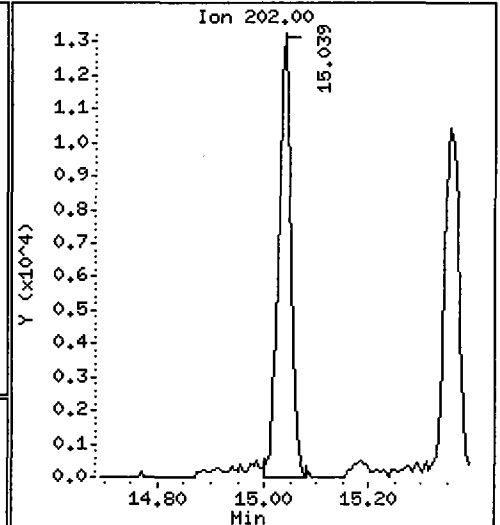
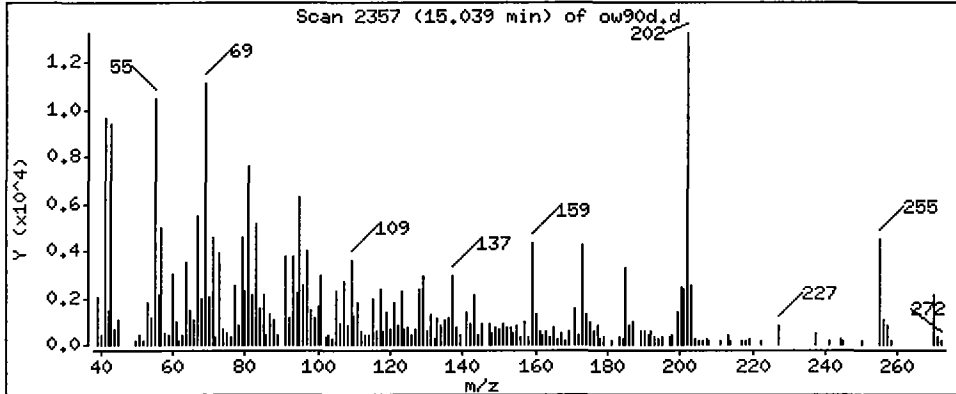
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

64 Fluoranthene

Concentration: 21.71 ug/kg



Date : 06-MAY-2009 19:53

Client ID: 10654011

Instrument: nt4.i

Sample Info: OW90D

Volume Injected (uL): 1.0

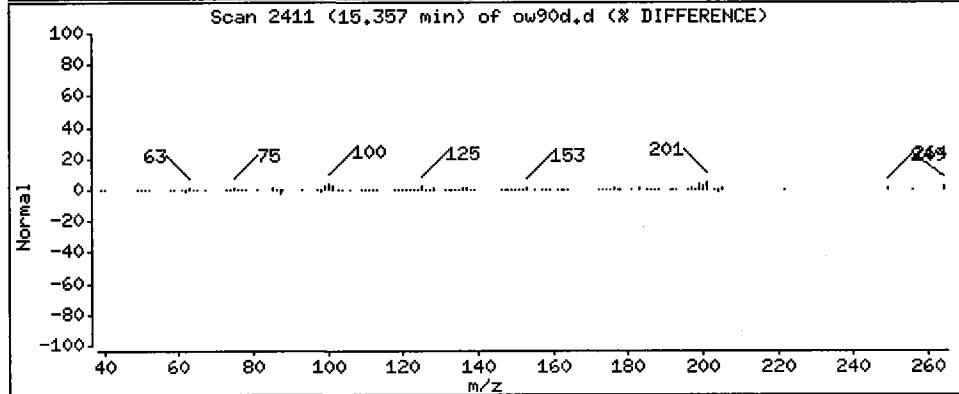
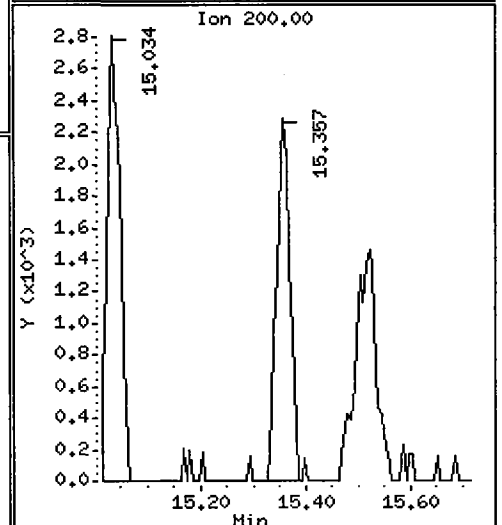
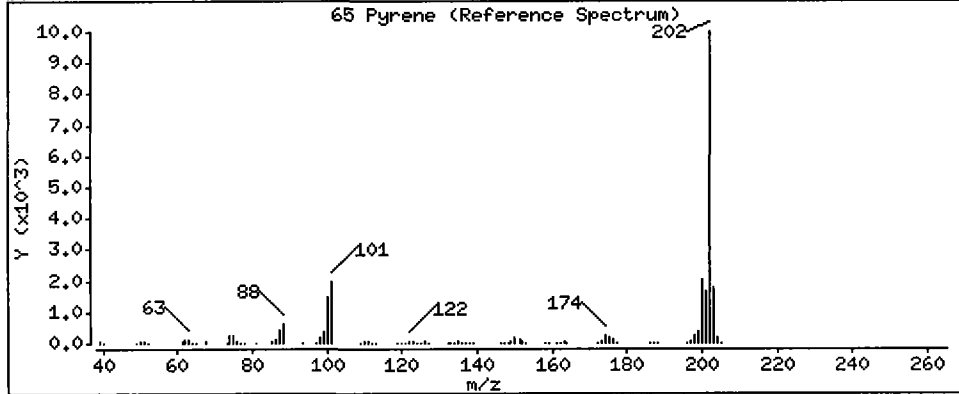
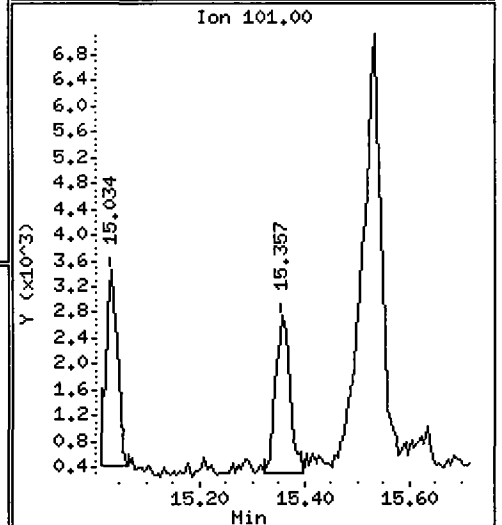
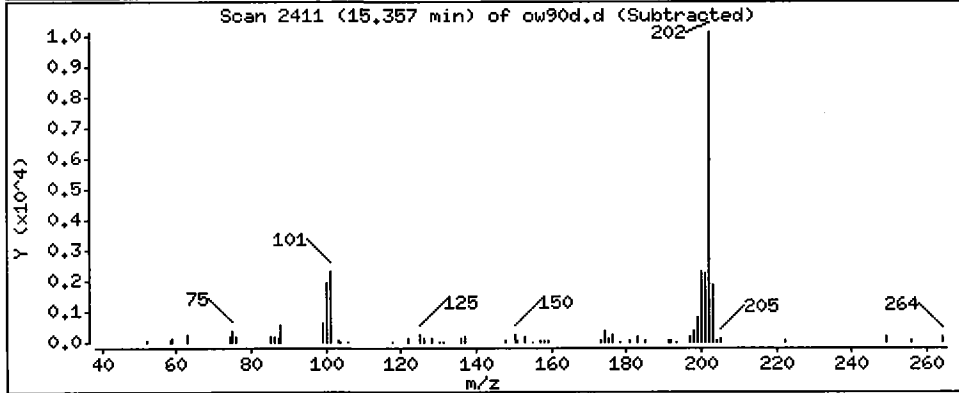
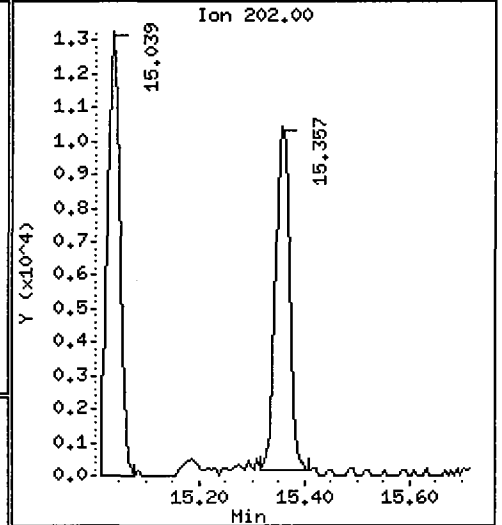
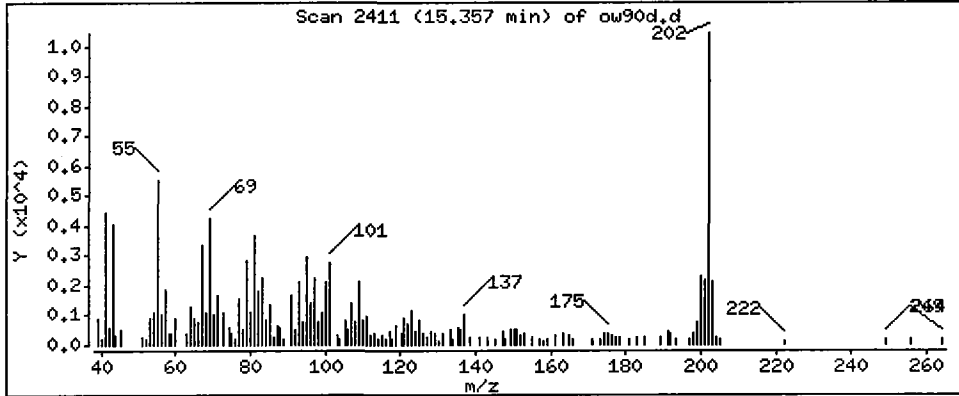
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

65 Pyrene

Concentration: 19.81 ug/kg



Date : 06-MAY-2009 19:53

Client ID: 10654011

Instrument: nt4.i

Sample Info: OW90D

Volume Injected (uL): 1.0

Operator: LJR/VTS

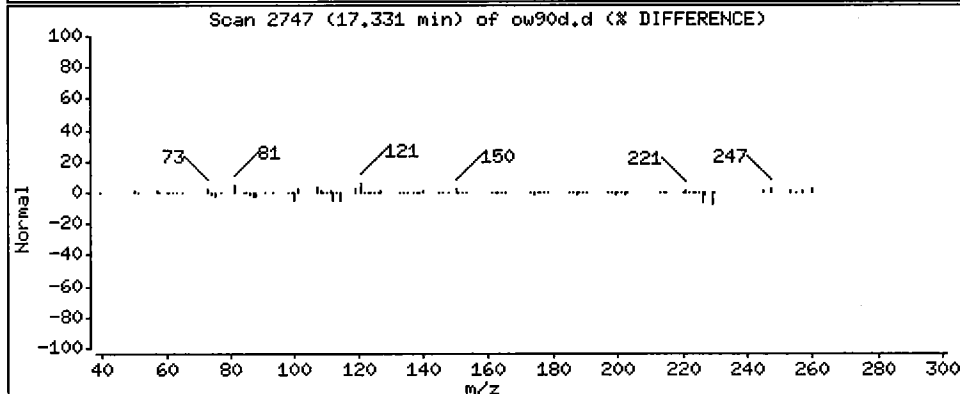
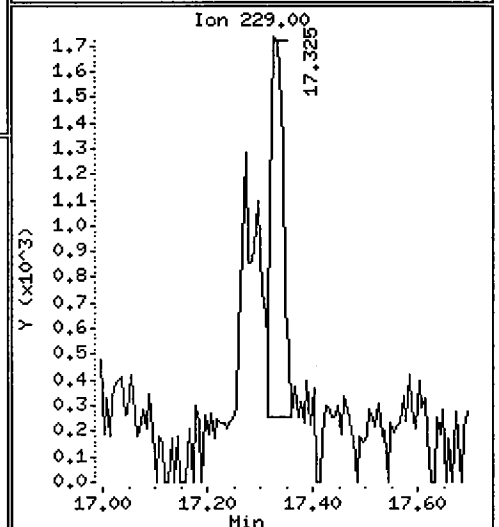
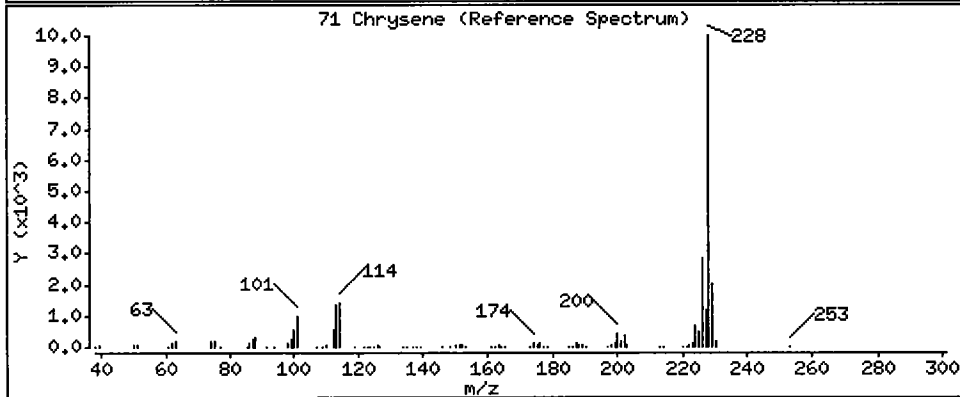
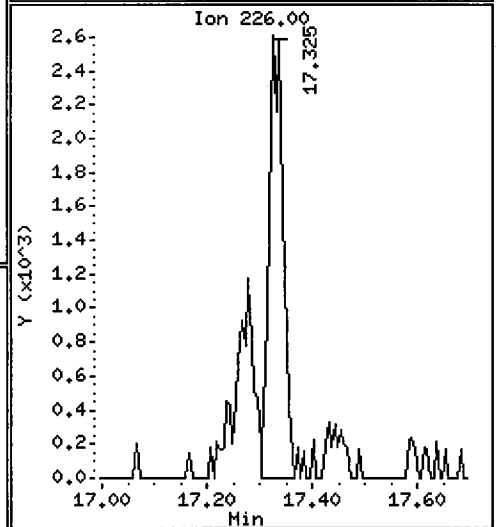
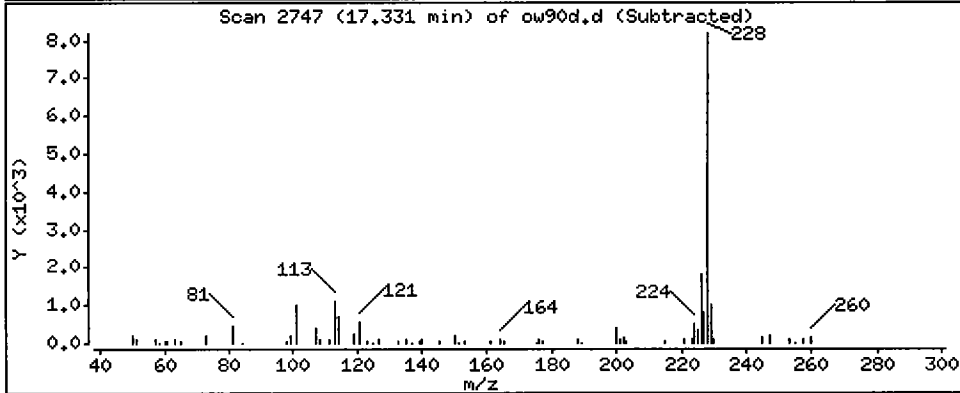
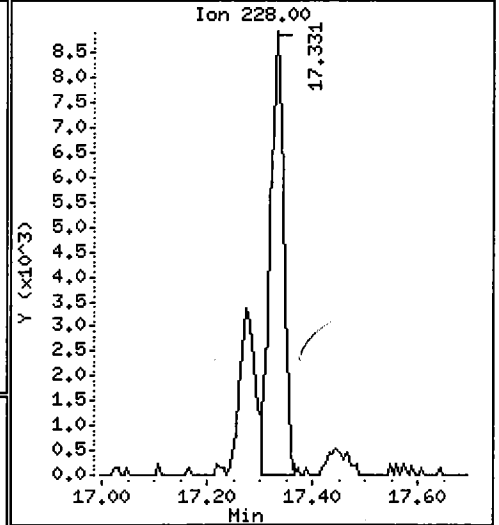
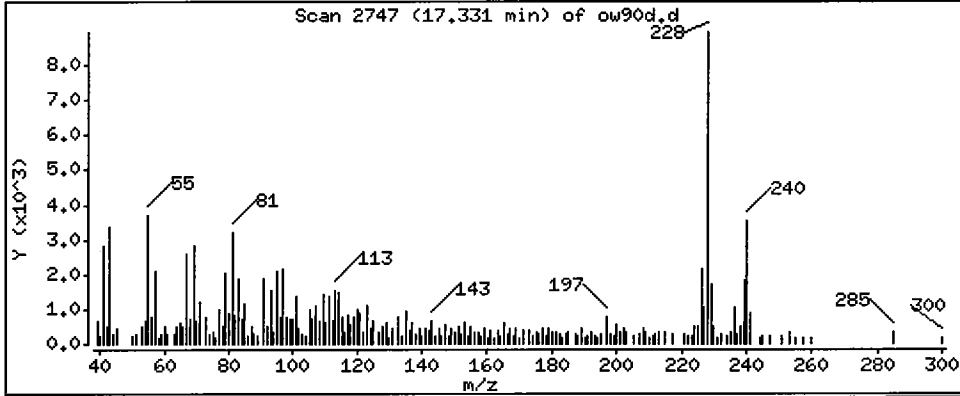
Column phase: ZB-5

Column diameter: 0.32

LJR

71 Chrysene

Concentration: 18.84 ug/kg



Date : 06-MAY-2009 19:53

Client ID: 10654011

Instrument: nt4.i

Sample Info: OW90D

Volume Injected (uL): 1.0

Operator: LJR/VTS

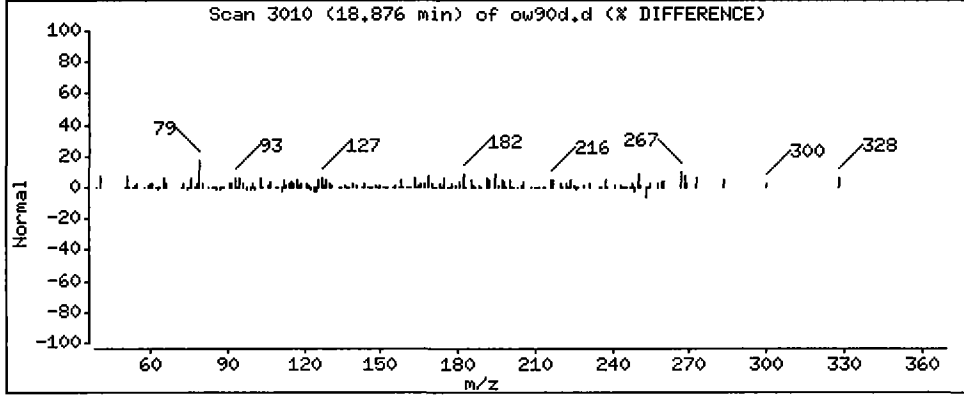
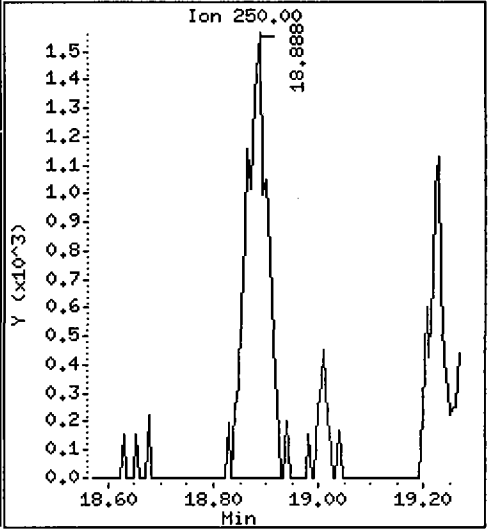
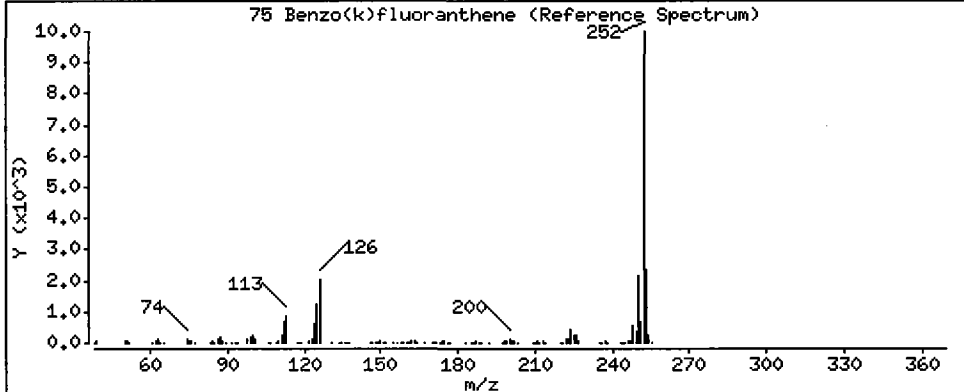
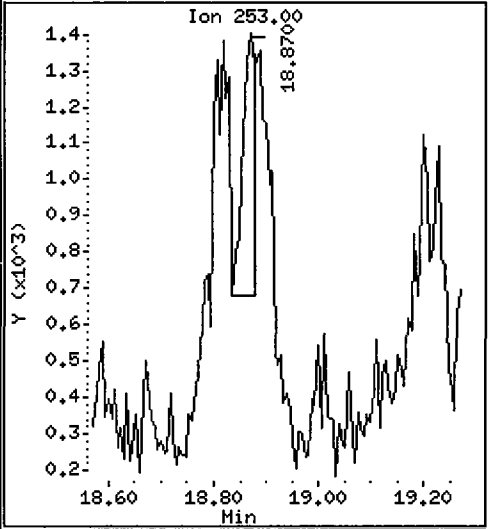
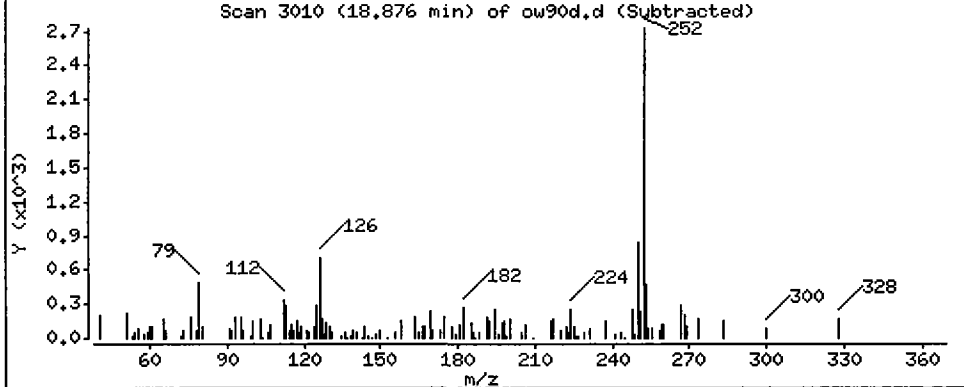
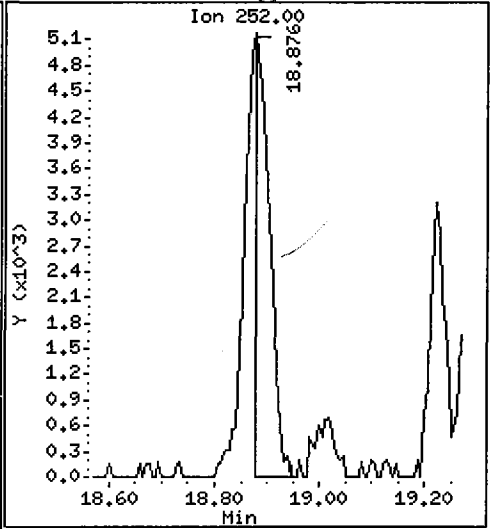
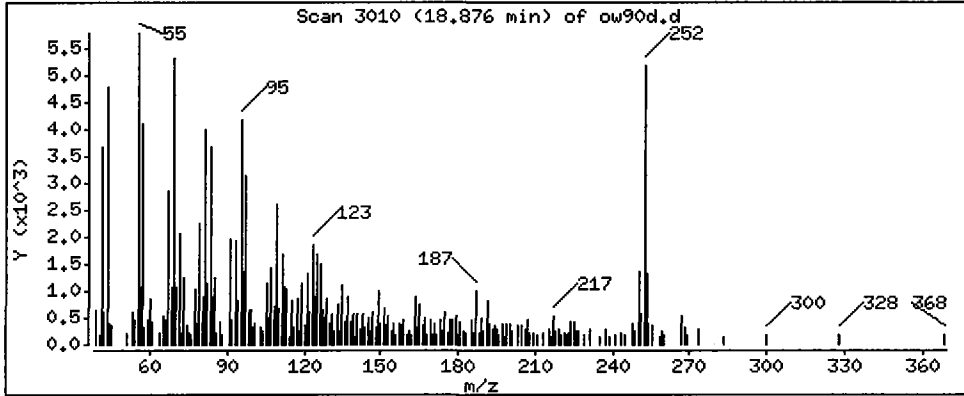
Column phase: ZB-5

Column diameter: 0.32

75 Benzo(k)fluoranthene


Concentration: 11.65 ug/kg

OLP



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654018
SAMPLE

Lab Sample ID: OW90E
 LIMS ID: 09-10072
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 20:26
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.6 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	Phenanthrene	20	12 J
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	17 J
129-00-0	Pyrene	20	14 J
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo (a) anthracene	20	< 20 U
117-81-7	bis (2-Ethylhexyl) phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo (b) fluoranthene	20	< 20 U
207-08-9	Benzo (k) fluoranthene	20	10 J
50-32-8	Benzo (a) pyrene	20	< 20 U
193-39-5	Indeno (1,2,3-cd) pyrene	20	< 20 U
53-70-3	Dibenz (a,h) anthracene	20	< 20 U
191-24-2	Benzo (g,h,i) perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.2%	2-Fluorobiphenyl	61.2%
d14-p-Terphenyl	53.6%	d4-1,2-Dichlorobenzene	57.2%
d5-Phenol	56.3%	2-Fluorophenol	59.2%
2,4,6-Tribromophenol	73.3%	d4-2-Chlorophenol	58.9%

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D
 Data file : /chem3/nt4.i/20090506.b/ow90e.d
 Lab Smp Id: OW90E Client Smp ID: 10654018
 Inj Date : 06-MAY-2009 20:26
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90E
 Misc Info : 09-10072
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:50 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Compound Sublist: PSDDA.sub

LJR
5/7/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	56.90000	Weight of sample extracted (g)
M	54.90000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112		3.664	3.619	(0.614)	274356	22.1651	431.9
\$ 2 Phenol-d5	99		5.756	5.734	(0.965)	349210	21.1284	411.7
3 Phenol	94		5.780	5.752	(0.968)	9875	0.50568	9.853
\$ 5 2-Chlorophenol-d4	132		5.691	5.676	(0.954)	219262	22.1018	430.6
4 Bis(2-Chloroethyl) ether	93					Compound Not Detected.		
6 2-Chlorophenol	128					Compound Not Detected.		
7 1,3-Dichlorobenzene	146					Compound Not Detected.		
* 8 1,4-Dichlorobenzene-d4	152		5.968	5.975	(1.000)	151463	20.0000	
9 1,4-Dichlorobenzene	146					Compound Not Detected.		
\$ 10 1,2-Dichlorobenzene-d4	152		6.279	6.281	(1.052)	100850	14.3449	279.5
12 1,2-Dichlorobenzene	146					Compound Not Detected.		
11 Benzyl alcohol	108					Compound Not Detected.		
14 2,2'-oxybis(1-Chloropropane)	45					Compound Not Detected.		
13 2-Methylphenol	108					Compound Not Detected.		
17 Hexachloroethane	117					Compound Not Detected.		

LJR

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
15 4-Methylphenol	108				Compound Not Detected.		
\$ 18 Nitrobenzene-d5	82	6.966	6.980	(0.864)	196021	14.2531	277.7
19 Nitrobenzene	77				Compound Not Detected.		
20 Isophorone	82				Compound Not Detected.		
21 2-Nitrophenol	139				Compound Not Detected.		
22 2,4-Dimethylphenol	107				Compound Not Detected.		
23 Bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
24 Benzoic acid	105				Compound Not Detected.		
25 2,4-Dichlorophenol	162				Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
* 27 Naphthalene-d8	136	8.065	8.073	(1.000)	501792	20.0000	
28 Naphthalene	128				Compound Not Detected.		
29 4-Chloroaniline	127				Compound Not Detected.		
30 Hexachlorobutadiene	225				Compound Not Detected.		
31 4-Chloro-3-methylphenol	107				Compound Not Detected.		
32 2-Methylnaphthalene	141				Compound Not Detected.		
33 Hexachlorocyclopentadiene	237				Compound Not Detected.		
34 2,4,6-Trichlorophenol	196				Compound Not Detected.		
35 2,4,5-Trichlorophenol	196				Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172	9.887	9.894	(0.910)	276512	15.3100	298.3
37 2-Chloronaphthalene	162				Compound Not Detected.		
38 2-Nitroaniline	65				Compound Not Detected.		
39 Dimethylphthalate	163				Compound Not Detected.		
40 Acenaphthylene	152				Compound Not Detected.		
41 2,6-Dinitrotoluene	165				Compound Not Detected.		
* 42 Acenaphthene-d10	164	10.862	10.864	(1.000)	244281	20.0000	
43 3-Nitroaniline	138				Compound Not Detected.		
44 Acenaphthene	153				Compound Not Detected.		
45 2,4-Dinitrophenol	184				Compound Not Detected.		
46 Dibenzofuran	168				Compound Not Detected.		
47 4-Nitrophenol	109				Compound Not Detected.		
48 2,4-Dinitrotoluene	165				Compound Not Detected.		
50 Diethylphthalate	149				Compound Not Detected.		
49 Fluorene	166				Compound Not Detected.		
51 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
52 4-Nitroaniline	138				Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
54 N-Nitrosodiphenylamine	169				Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330	12.125	12.133	(1.116)	57766	27.4985	535.8(M)
56 4-Bromophenyl-phenylether	248				Compound Not Detected.		
57 Hexachlorobenzene	284				Compound Not Detected.		
58 Pentachlorophenol	266				Compound Not Detected.		
* 59 Phenanthrene-d10	188	13.136	13.143	(1.000)	342914	20.0000	
60 Phenanthrene	178	13.165	13.179	(1.002)	13272	0.59300	11.55(M)
61 Anthracene	178				Compound Not Detected.		
62 Carbazole	167				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149				Compound Not Detected.		
64 Fluoranthene	202	15.033	15.041	(1.144)	19617	0.88730 LDL	17.29
65 Pyrene	202	15.357	15.364	(0.888)	18913	0.71193 LDL	13.87
\$ 66 Terphenyl-d14	244	15.774	15.776	(0.912)	215729	13.3702	260.5
67 Butylbenzylphthalate	149				Compound Not Detected.		
68 Benzo(a)anthracene	228				Compound Not Detected.		
* 69 Chrysene-d12	240	17.301	17.309	(1.000)	331078	20.0000	
70 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
71 Chrysene	228				Compound Not Detected.		
72 bis(2-Ethylhexyl)phthalate	149				Compound Not Detected.		
* 134 Di-n-octylphthalate-d4	153	18.664	18.672	(1.000)	612584	20.0000	
73 Di-n-octylphthalate	149				Compound Not Detected.		
74 Benzo(b)fluoranthene	252				Compound Not Detected.		
75 Benzo(k)fluoranthene	252	18.876	18.919	(0.974)	12789	0.52390 LDL	10.21(M)
76 Benzo(a)pyrene	252				Compound Not Detected.		
* 77 Perylene-d12	264	19.375	19.383	(1.000)	354297	20.0000	
78 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
80 Benzo(g,h,i)perylene	276				Compound Not Detected.		
90 N-Nitrosodimethylamine	74				Compound Not Detected.		
91 Aniline	93				Compound Not Detected.		
93 Benzidine	184				Compound Not Detected.		
103 Pyridine	79				Compound Not Detected.		
105 1-methylnaphthalene	141				Compound Not Detected.		
111 Azobenzene (1,2-DP-Hydrazine)	77				Compound Not Detected.		

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90e.d
 Lab Smp Id: OW90E
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10072

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: 10654018
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	151463	-12.17
27 Naphthalene-d8	608124	304062	1216248	501792	-17.49
42 Acenaphthene-d10	305977	152988	611954	244281	-20.16
59 Phenanthrene-d10	428646	214323	857292	342914	-20.00
69 Chrysene-d12	348476	174238	696952	331078	-4.99
134 Di-n-octylphthala	674761	337380	1349522	612584	-9.21
77 Perylene-d12	426588	213294	853176	354297	-16.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.13
27 Naphthalene-d8	8.07	7.57	8.57	8.07	-0.10
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	-0.02
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	-0.06
69 Chrysene-d12	17.31	16.81	17.81	17.30	-0.04
134 Di-n-octylphthala	18.67	18.17	19.17	18.66	-0.04
77 Perylene-d12	19.38	18.88	19.88	19.38	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix
 Sample Matrix: SOLID
 Lab Smp Id: OW90E
 Level: LOW
 Data Type: MS DATA
 SpikeList File: PSDDALCS.spk
 Sublist File: PSDDA.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10072

Client SDG: OW90
 Fraction: SV
 Client Smp ID: 10654018
 Operator: LJR/VTS
 SampleType: SAMPLE
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	730.7	431.9	59.11	10-114
\$ 2 Phenol-d5	730.7	411.7	56.34	29-85
\$ 5 2-Chlorophenol-d4	730.7	430.6	58.94	30-84
\$ 10 1,2-Dichlorobenzen	487.1	279.5	57.38	25-82
\$ 18 Nitrobenzene-d5	487.1	277.7	57.01	29-87
\$ 36 2-Fluorobiphenyl	487.1	298.3	61.24	32-88
\$ 55 2,4,6-Tribromophen	730.7	535.8	73.33	25-103
\$ 66 Terphenyl-d14	487.1	260.5	53.48	21-97

Date : 06-MAY-2009 20:26

Client ID: 10654018

Sample Info: 0M90E

Volume Injected (uL): 1.0

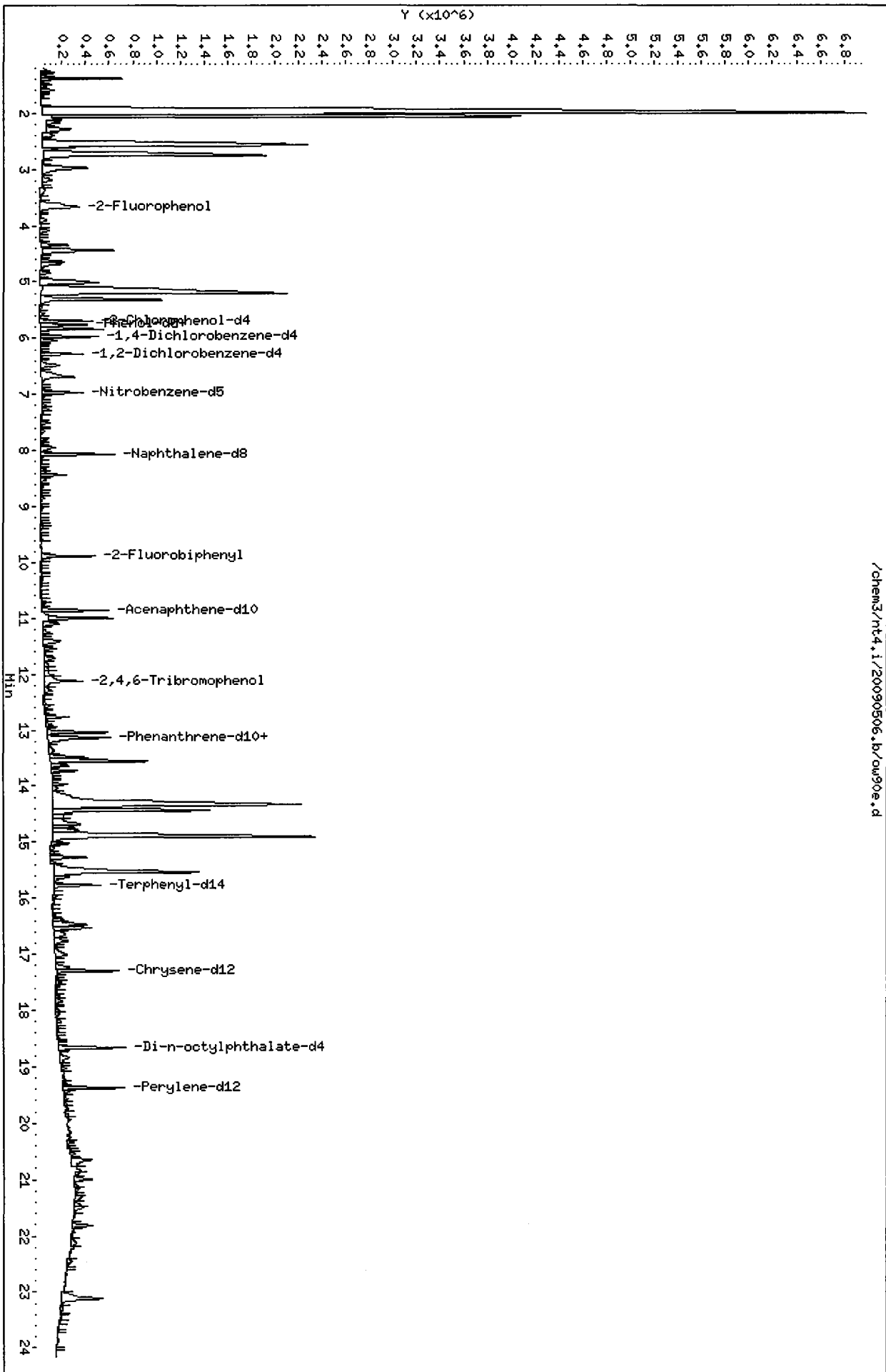
Column phase: ZB-5

Instrument: nt4.i

Operator: LJR/VTS

Column diameter: 0.32

/chem3/nt4.i/20090506.b/aw90e.d



0490 : 00131

Date : 06-MAY-2009 20:26

Client ID: 10654018

Instrument: nt4.i

Sample Info: OW90E

Volume Injected (uL): 1.0

Operator: LJR/VTS

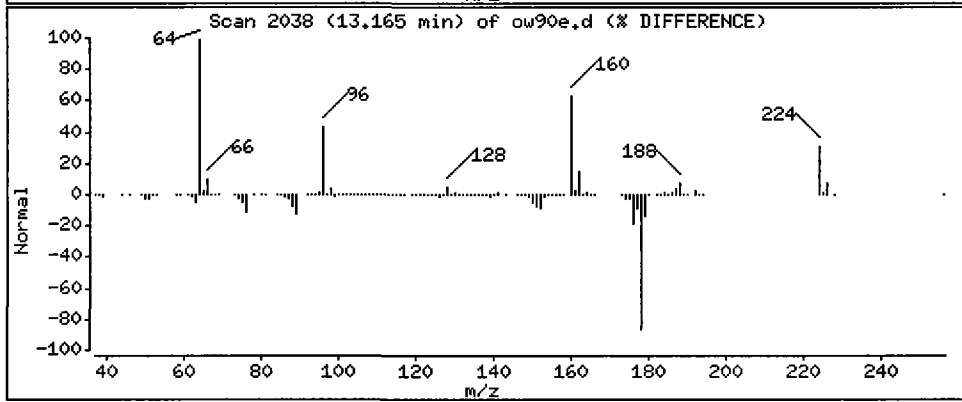
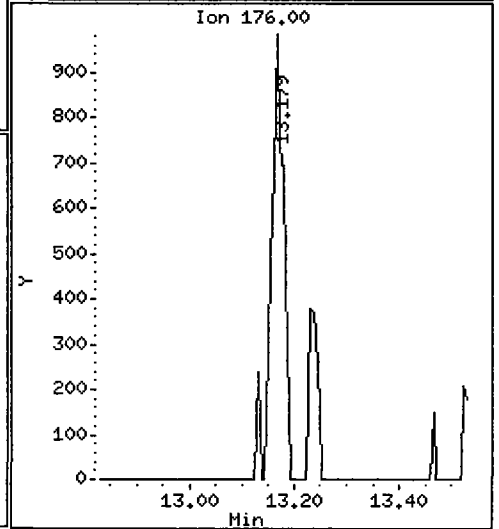
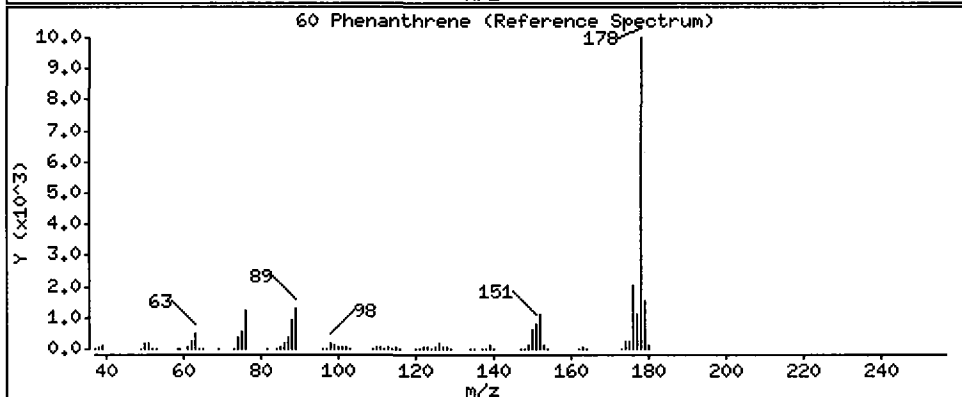
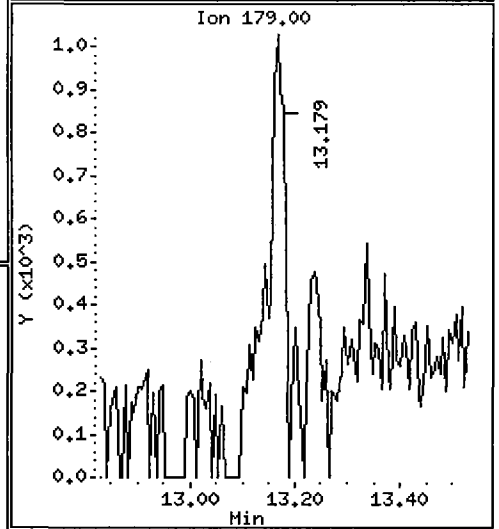
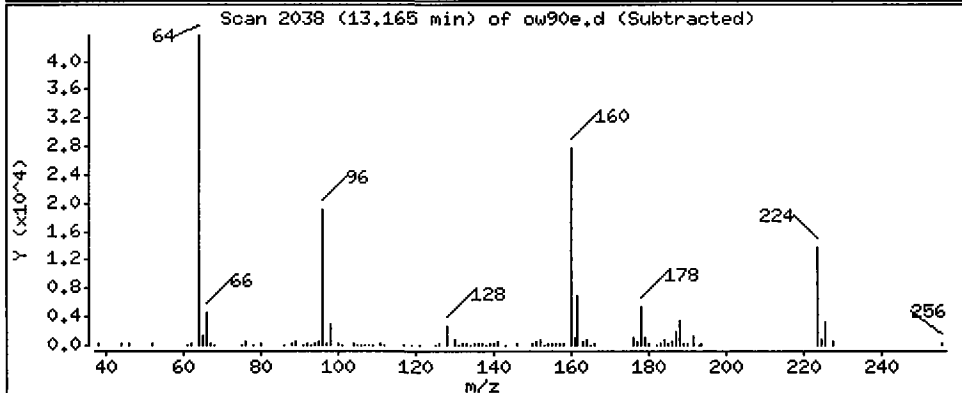
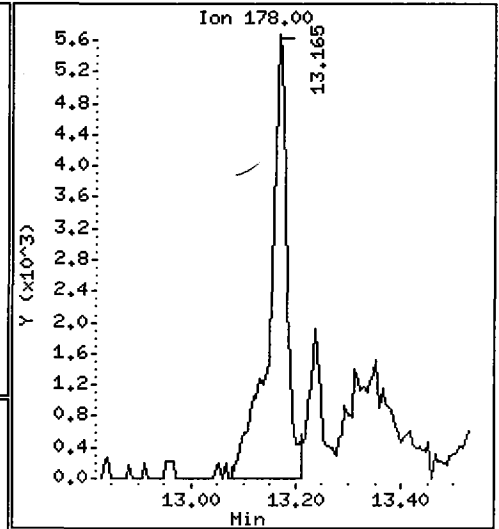
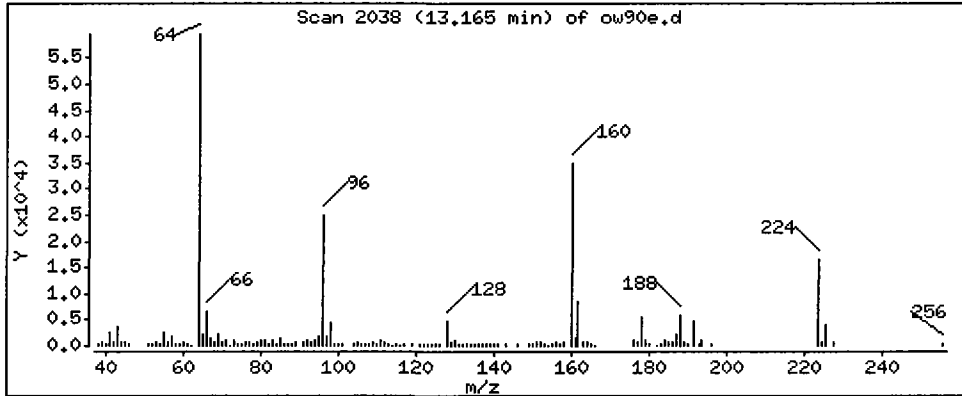
Column phase: ZB-5

Column diameter: 0.32

JCL

60 Phenanthrene

Concentration: 11.55 ug/kg



Date : 06-MAY-2009 20:26

Client ID: 10654018

Instrument: nt4.i

Sample Info: OW90E

Volume Injected (uL): 1.0

Operator: LJR/VTS

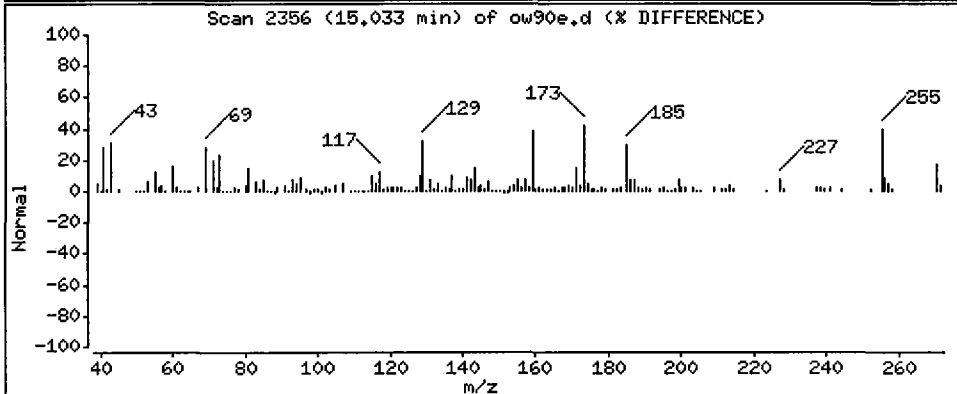
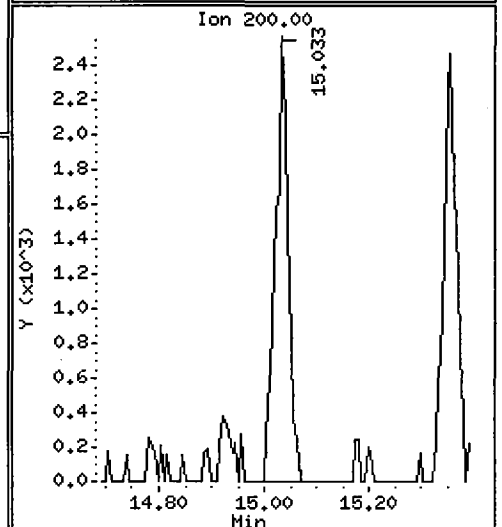
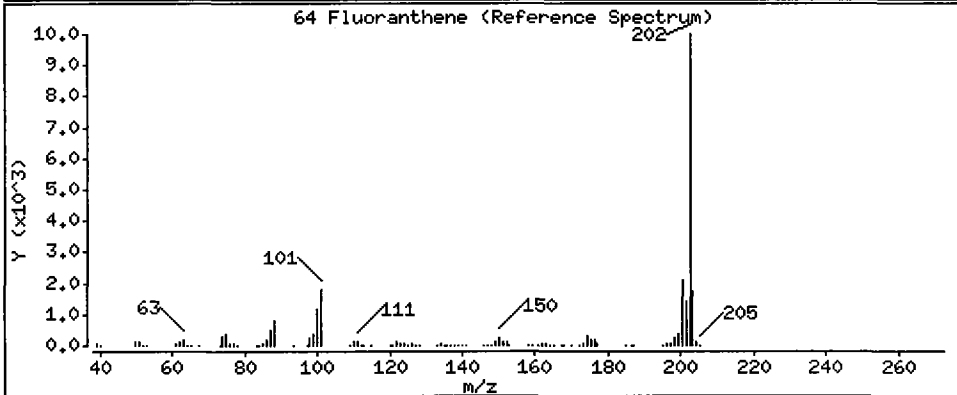
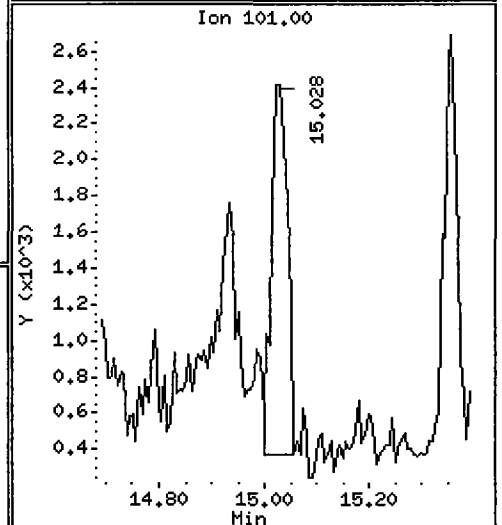
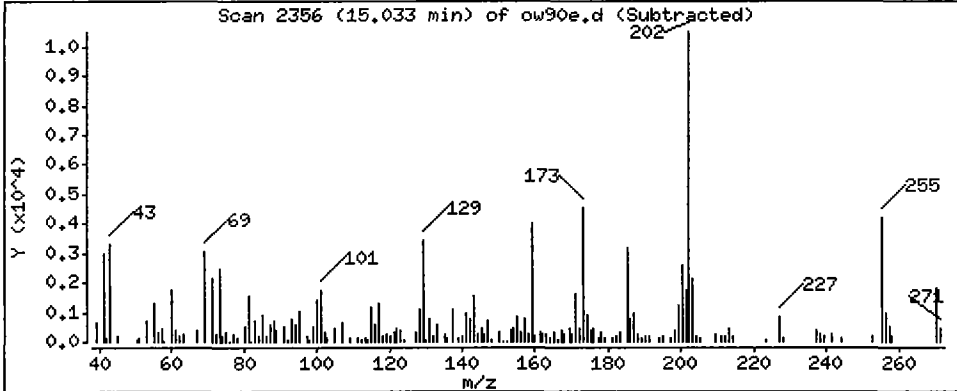
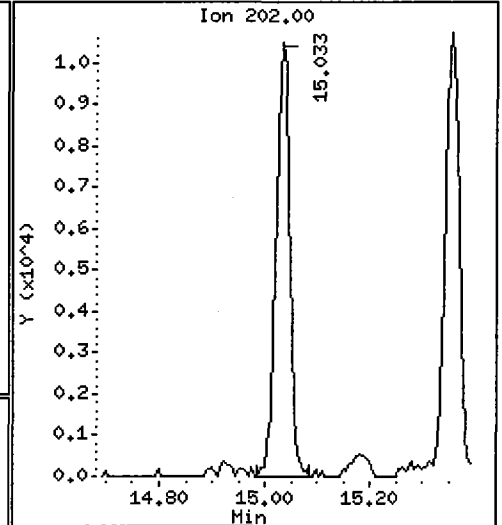
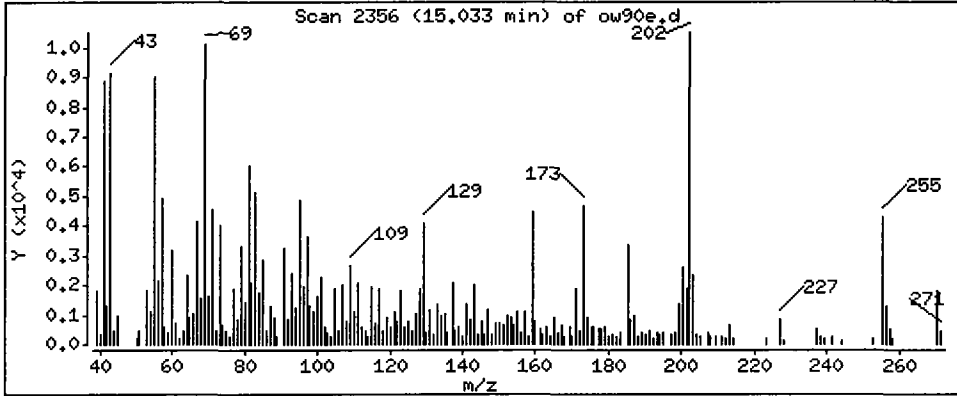
Column phase: ZB-5

Column diameter: 0.32

JLR

64 Fluoranthene

Concentration: 17.29 ug/kg



Date : 06-MAY-2009 20:26

Client ID: 10654018

Instrument: nt4.i

Sample Info: OW90E

Volume Injected (uL): 1.0

Operator: LJR/VTS

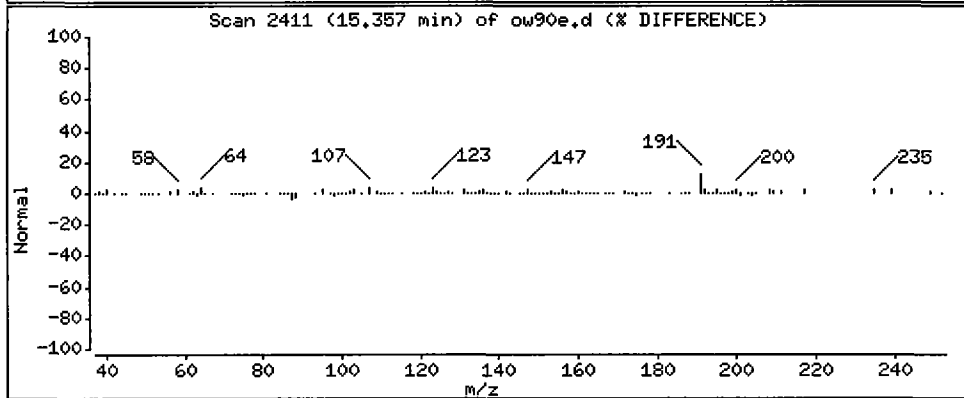
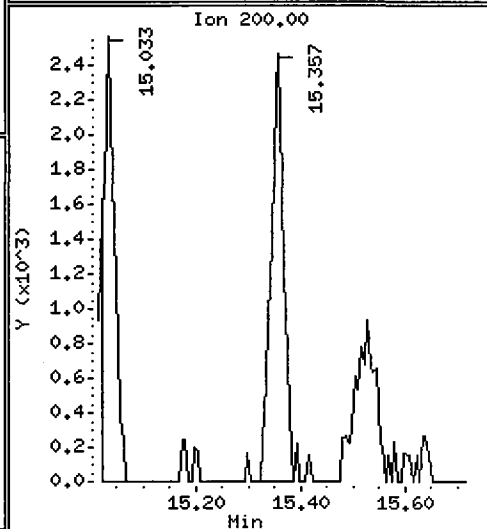
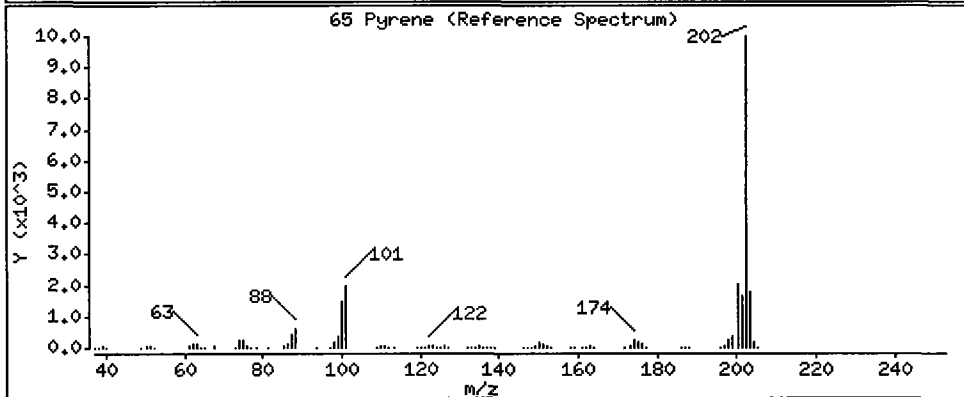
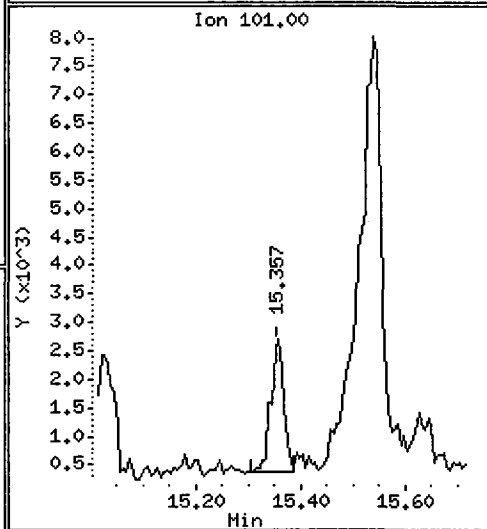
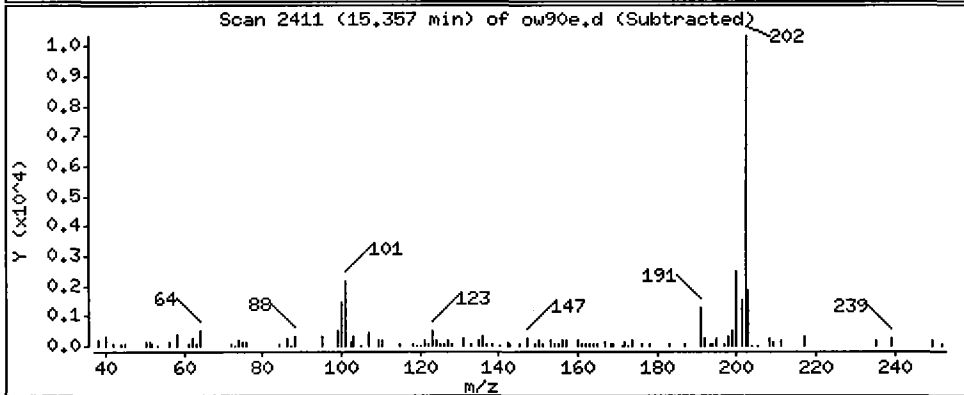
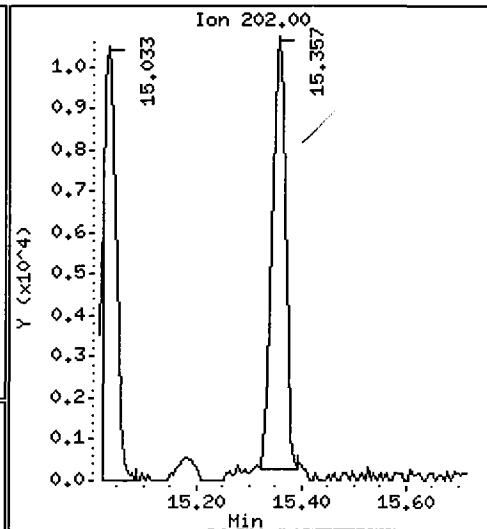
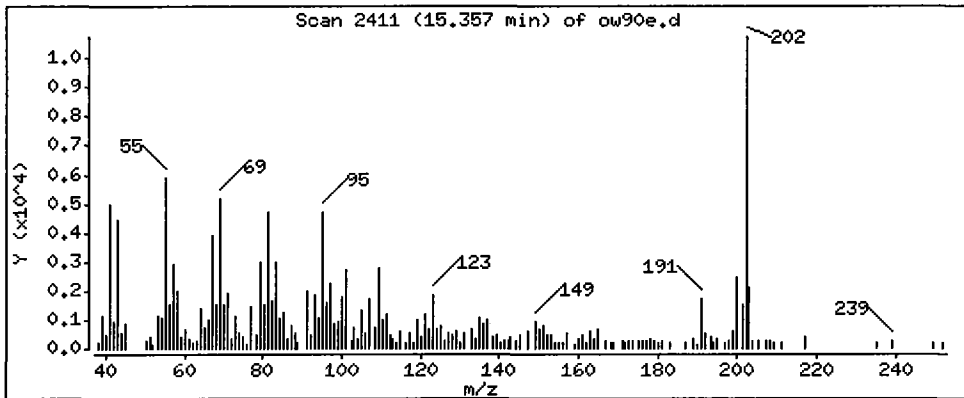
Column phase: ZB-5

Column diameter: 0.32

65 Pyrene

Concentration: 13.87 ug/kg

JLR



Date : 06-MAY-2009 20:26

Client ID: 10654018

Instrument: nt4.i

Sample Info: OW90E

Volume Injected (uL): 1.0

Operator: LJR/VTS

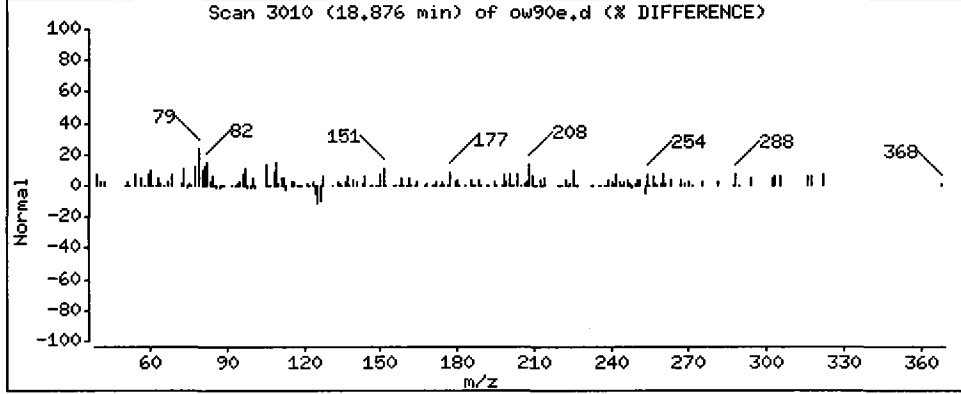
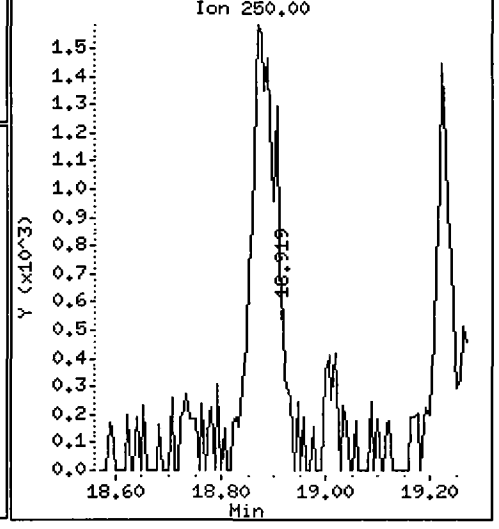
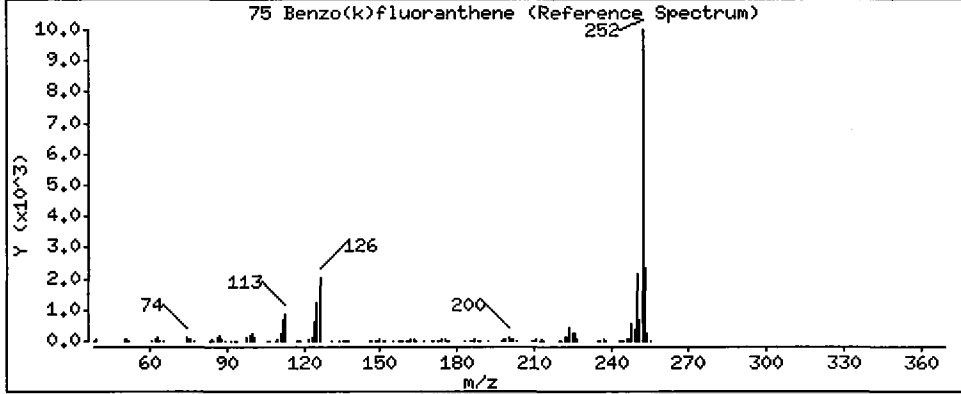
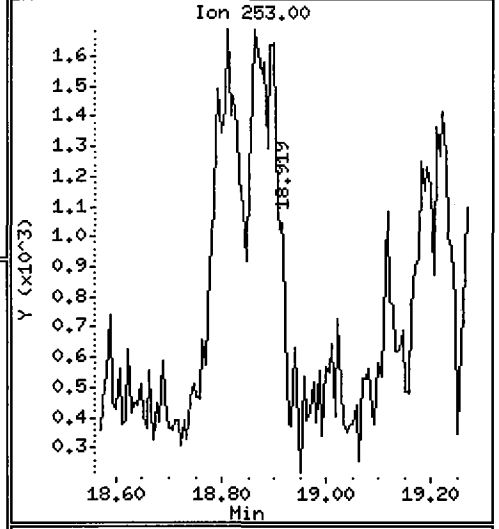
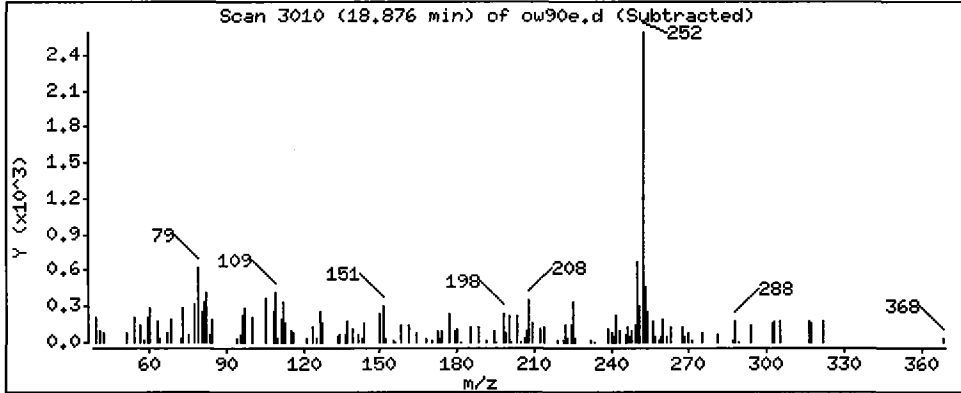
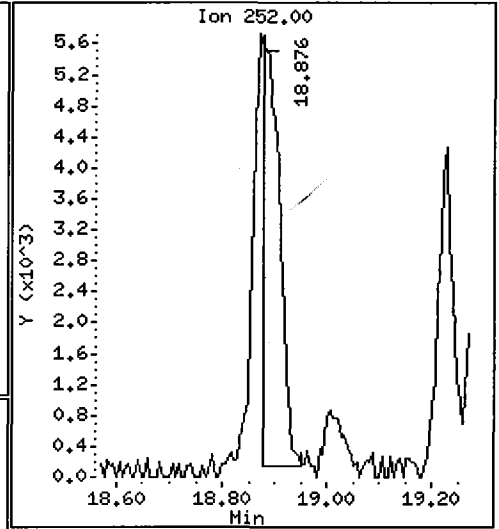
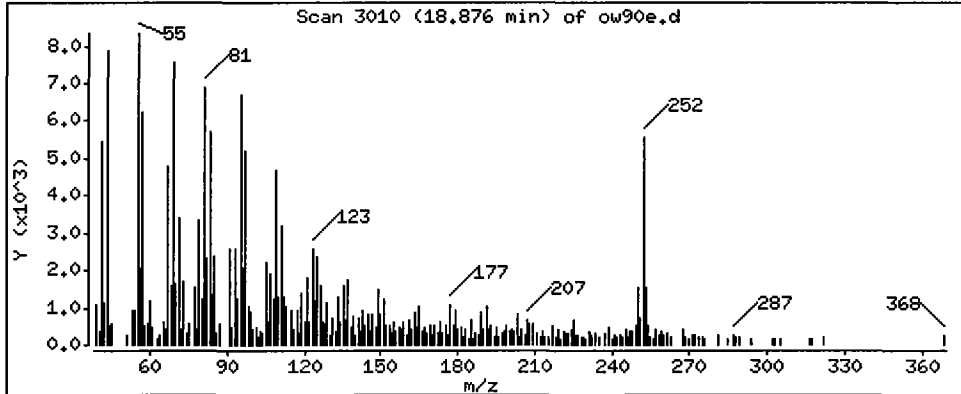
Column phase: ZB-5

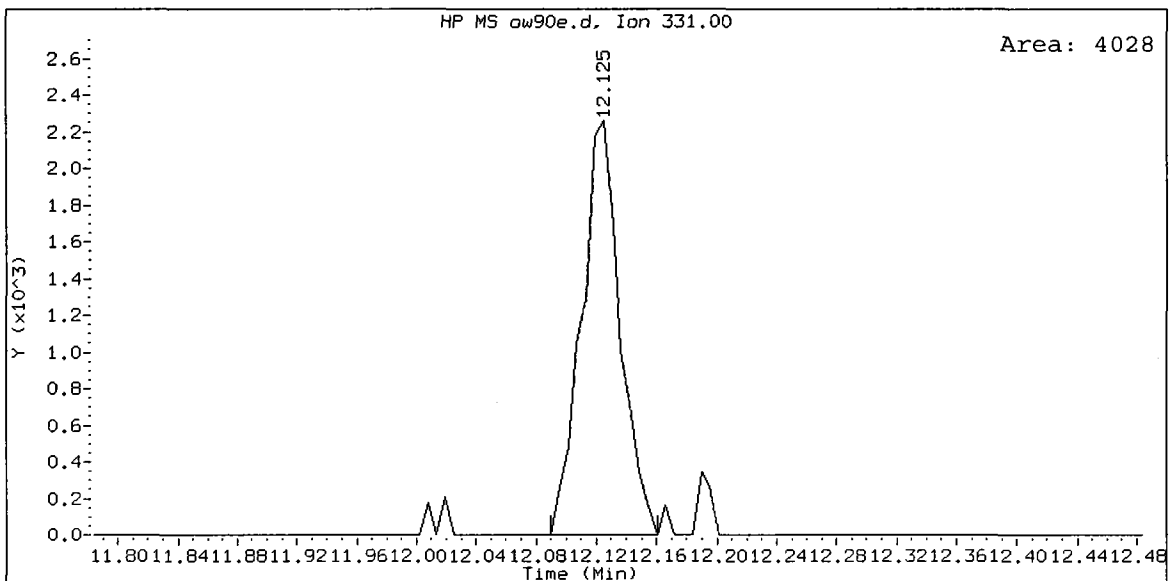
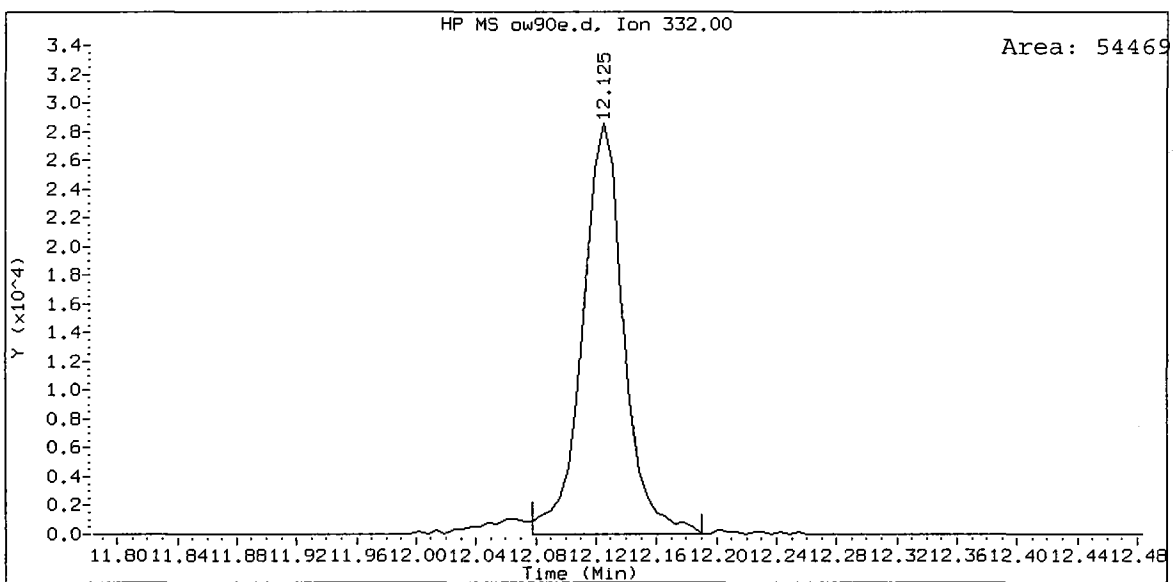
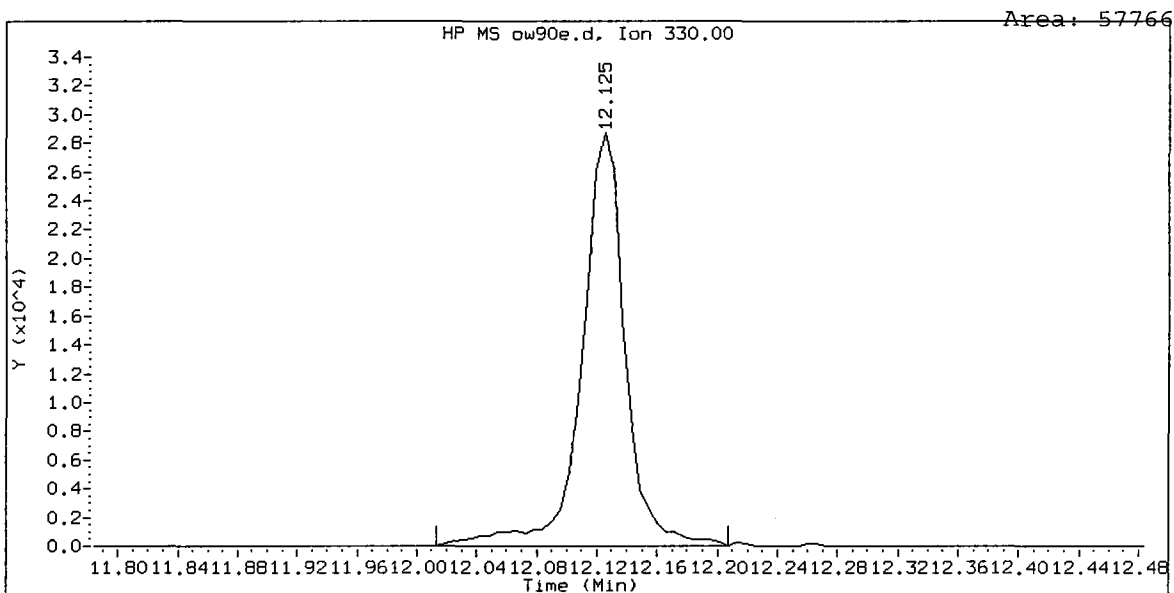
Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 10.21 ug/kg


JLR





ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654028
SAMPLE

Lab Sample ID: OW90F
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 20:59
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.7 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 35.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	97	< 97 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	9.9 J
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo (a) anthracene	20	< 20 U
117-81-7	bis (2-Ethylhexyl) phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo (b) fluoranthene	20	< 20 U
207-08-9	Benzo (k) fluoranthene	20	< 20 U
50-32-8	Benzo (a) pyrene	20	< 20 U
193-39-5	Indeno (1,2,3-cd) pyrene	20	< 20 U
53-70-3	Dibenz (a,h) anthracene	20	< 20 U
191-24-2	Benzo (g,h,i) perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.4%	2-Fluorobiphenyl	66.4%
d14-p-Terphenyl	62.4%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	58.4%	2-Fluorophenol	60.5%
2,4,6-Tribromophenol	76.5%	d4-2-Chlorophenol	60.3%

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090506.b/ow90f.d
 Lab Smp Id: OW90F Client Smp ID: 10654028
 Inj Date : 06-MAY-2009 20:59
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90F
 Misc Info : 09-10073
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:50 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 3.50

LJR
5/7/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	39.50000	Weight of sample extracted (g)
M	35.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112		3.688	3.619	(0.617)	286433	22.7480	443.0
\$ 2 Phenol-d5	99		5.750	5.734	(0.963)	367711	21.8702	425.9
3 Phenol	94					Compound Not Detected.		
\$ 5 2-Chlorophenol-d4	132		5.691	5.676	(0.953)	228426	22.6348	440.8
4 Bis(2-Chloroethyl) ether	93					Compound Not Detected.		
6 2-Chlorophenol	128					Compound Not Detected.		
7 1,3-Dichlorobenzene	146					Compound Not Detected.		
* 8 1,4-Dichlorobenzene-d4	152		5.973	5.975	(1.000)	154078	20.0000	
9 1,4-Dichlorobenzene	146					Compound Not Detected.		
\$ 10 1,2-Dichlorobenzene-d4	152		6.279	6.281	(1.051)	105371	14.7236	286.9
12 1,2-Dichlorobenzene	146					Compound Not Detected.		
11 Benzyl alcohol	108					Compound Not Detected.		
14 2,2'-oxybis(1-Chloropropane)	45					Compound Not Detected.		
13 2-Methylphenol	108					Compound Not Detected.		
17 Hexachloroethane	117					Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
15 4-Methylphenol	108				Compound Not Detected.		
\$ 18 Nitrobenzene-d5	82	6.972	6.980	(0.864)	196832	14.1432	275.4
19 Nitrobenzene	77				Compound Not Detected.		
20 Isophorone	82				Compound Not Detected.		
21 2-Nitrophenol	139				Compound Not Detected.		
22 2,4-Dimethylphenol	107				Compound Not Detected.		
23 Bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
24 Benzoic acid	105				Compound Not Detected.		
25 2,4-Dichlorophenol	162				Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
* 27 Naphthalene-d8	136	8.065	8.073	(1.000)	507782	20.0000	
28 Naphthalene	128				Compound Not Detected.		
29 4-Chloroaniline	127				Compound Not Detected.		
30 Hexachlorobutadiene	225				Compound Not Detected.		
31 4-Chloro-3-methylphenol	107				Compound Not Detected.		
32 2-Methylnaphthalene	141				Compound Not Detected.		
33 Hexachlorocyclopentadiene	237				Compound Not Detected.		
34 2,4,6-Trichlorophenol	196				Compound Not Detected.		
35 2,4,5-Trichlorophenol	196				Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172	9.886	9.894	(0.910)	302009	16.6003	323.3
37 2-Chloronaphthalene	162				Compound Not Detected.		
38 2-Nitroaniline	65				Compound Not Detected.		
39 Dimethylphthalate	163				Compound Not Detected.		
40 Acenaphthylene	152				Compound Not Detected.		
41 2,6-Dinitrotoluene	165				Compound Not Detected.		
* 42 Acenaphthene-d10	164	10.861	10.864	(1.000)	246068	20.0000	
43 3-Nitroaniline	138				Compound Not Detected.		
44 Acenaphthene	153				Compound Not Detected.		
45 2,4-Dinitrophenol	184				Compound Not Detected.		
46 Dibenzofuran	168				Compound Not Detected.		
47 4-Nitrophenol	109				Compound Not Detected.		
48 2,4-Dinitrotoluene	165				Compound Not Detected.		
50 Diethylphthalate	149				Compound Not Detected.		
49 Fluorene	166				Compound Not Detected.		
51 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
52 4-Nitroaniline	138				Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
54 N-Nitrosodiphenylamine	169				Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330	12.125	12.133	(1.116)	60777	28.7218	559.3
56 4-Bromophenyl-phenylether	248				Compound Not Detected.		
57 Hexachlorobenzene	284				Compound Not Detected.		
58 Pentachlorophenol	266				Compound Not Detected.		
* 59 Phenanthrene-d10	188	13.135	13.143	(1.000)	343322	20.0000	
60 Phenanthrene	178				Compound Not Detected.		
61 Anthracene	178				Compound Not Detected.		
62 Carbazole	167				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149				Compound Not Detected.		
64 Fluoranthene	202	15.045	15.041	(1.145)	11268	0.50906	9.914
65 Pyrene	202				Compound Not Detected.		
* 66 Terphenyl-d14	244	15.779	15.776	(0.912)	235314	15.5874	303.6
67 Butylbenzylphthalate	149				Compound Not Detected.		
68 Benzo(a)anthracene	228				Compound Not Detected.		
* 69 Chrysene-d12	240	17.307	17.309	(1.000)	309768	20.0000	
70 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
71 Chrysene	228				Compound Not Detected.		
72 bis(2-Ethylhexyl)phthalate	149				Compound Not Detected.		
* 134 Di-n-octylphthalate-d4	153	18.664	18.672	(1.000)	551899	20.0000	
73 Di-n-octylphthalate	149				Compound Not Detected.		
74 Benzo(b)fluoranthene	252				Compound Not Detected.		
75 Benzo(k)fluoranthene	252				Compound Not Detected.		
76 Benzo(a)pyrene	252				Compound Not Detected.		
* 77 Perylene-d12	264	19.375	19.383	(1.000)	338013	20.0000	
78 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
80 Benzo(g,h,i)perylene	276				Compound Not Detected.		
90 N-Nitrosodimethylamine	74				Compound Not Detected.		
91 Aniline	93				Compound Not Detected.		
93 Benzidine	184				Compound Not Detected.		
103 Pyridine	79				Compound Not Detected.		
105 1-methylnaphthalene	141				Compound Not Detected.		
111 Azobenzene (1,2-DP-Hydrazine)	77				Compound Not Detected.		

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90f.d
 Lab Smp Id: OW90F
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: 10654028
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	154078	-10.66
27 Naphthalene-d8	608124	304062	1216248	507782	-16.50
42 Acenaphthene-d10	305977	152988	611954	246068	-19.58
59 Phenanthrene-d10	428646	214323	857292	343322	-19.91
69 Chrysene-d12	348476	174238	696952	309768	-11.11
134 Di-n-octylphthala	674761	337380	1349522	551899	-18.21
77 Perylene-d12	426588	213294	853176	338013	-20.76

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.04
27 Naphthalene-d8	8.07	7.57	8.57	8.06	-0.10
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	-0.02
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	-0.06
69 Chrysene-d12	17.31	16.81	17.81	17.31	-0.01
134 Di-n-octylphthala	18.67	18.17	19.17	18.66	-0.04
77 Perylene-d12	19.38	18.88	19.88	19.38	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix
 Sample Matrix: SOLID
 Lab Smp Id: OW90F
 Level: LOW
 Data Type: MS DATA
 SpikeList File: PSDDALCS.spk
 Sublist File: PSDDA.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

Client SDG: OW90
 Fraction: SV
 Client Smp ID: 10654028
 Operator: LJR/VTS
 SampleType: SAMPLE
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	730.3	443.0	60.66	10-114
\$ 2 Phenol-d5	730.3	425.9	58.32	29-85
\$ 5 2-Chlorophenol-d4	730.3	440.8	60.36	30-84
\$ 10 1,2-Dichlorobenzen	486.9	286.9	58.93	25-82
\$ 18 Nitrobenzene-d5	486.9	275.4	56.57	29-87
\$ 36 2-Fluorobiphenyl	486.9	323.3	66.40	32-88
\$ 55 2,4,6-Tribromophen	730.3	559.3	76.59	25-103
\$ 66 Terphenyl-d14	486.9	303.6	62.35	21-97

Date : 06-MAY-2009 20:59

Client ID: 10654028

Sample Info: 0M30F

Volume Injected (uL): 1.0

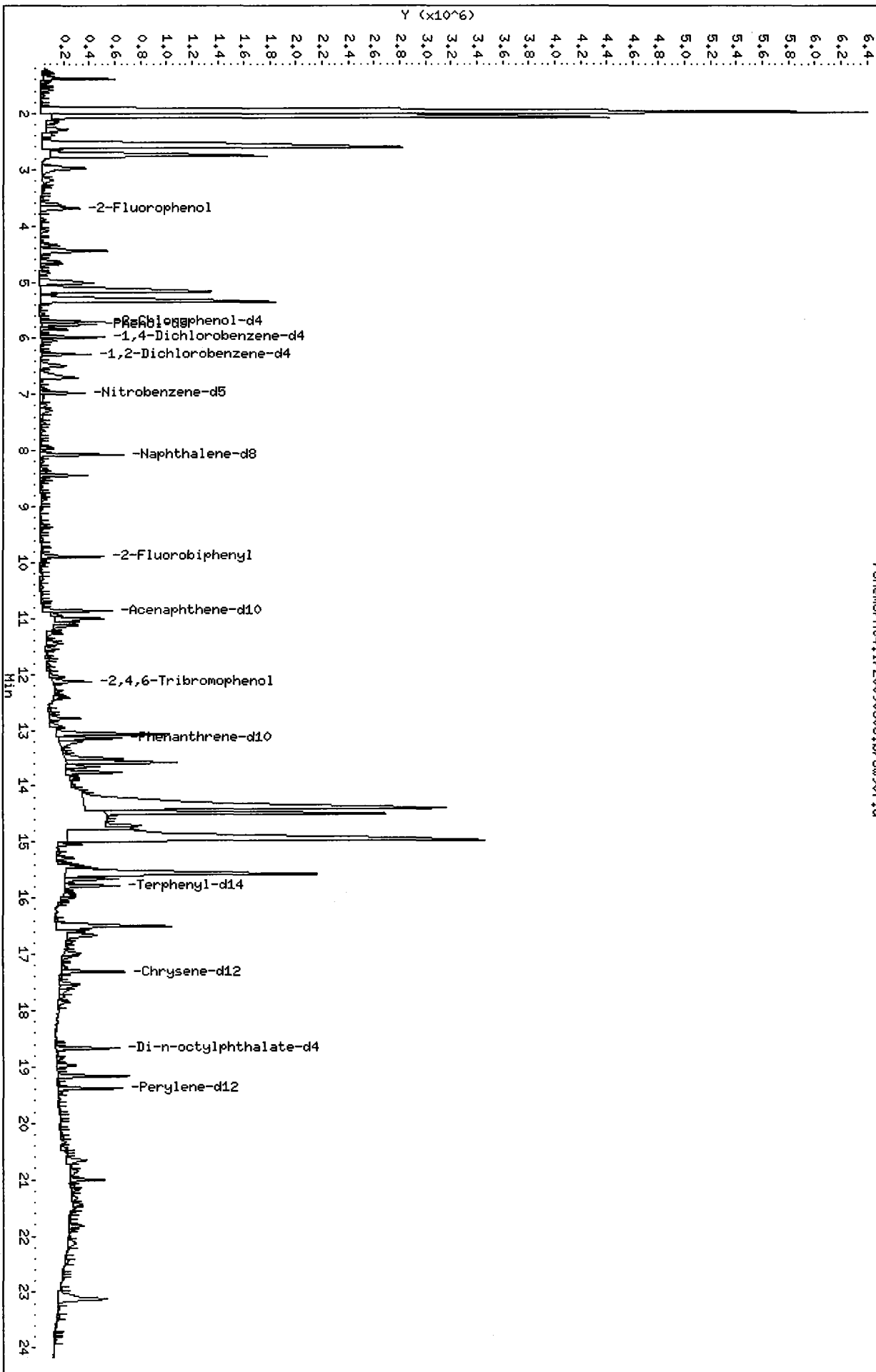
Column phase: ZB-5

Instrument: nt4.i

Operator: LJR/VTS

Column diameter: 0.32

/chem3/nt4,i/20090506.b/ow30f.d



07:11:00 : 0030

Date : 06-MAY-2009 20:59

Client ID: 10654028

Instrument: nt4.i

Sample Info: OW90F

Volume Injected (uL): 1.0

Operator: LJR/VTS

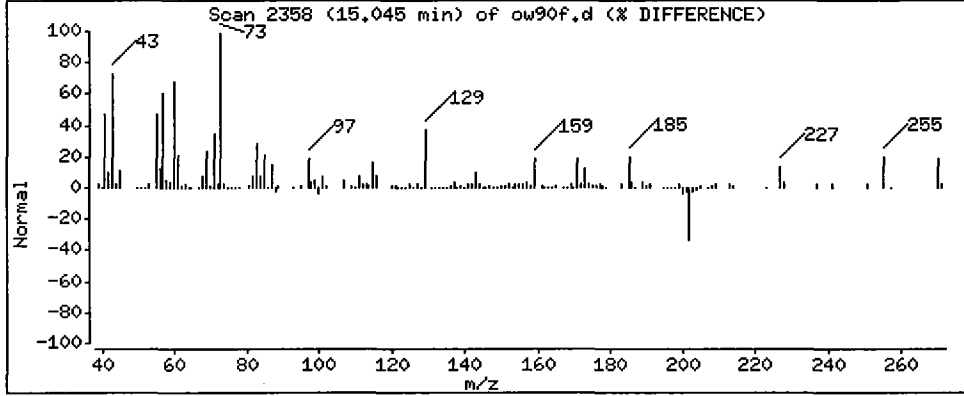
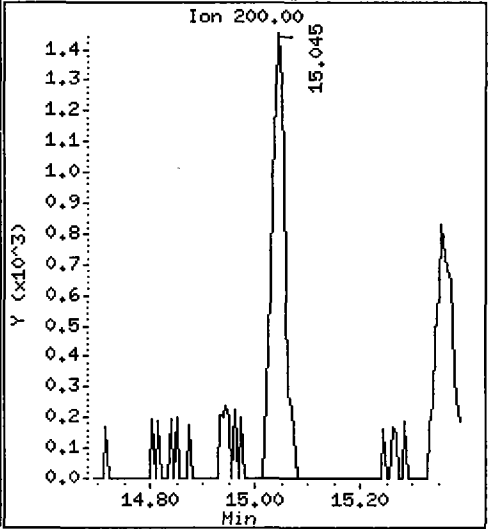
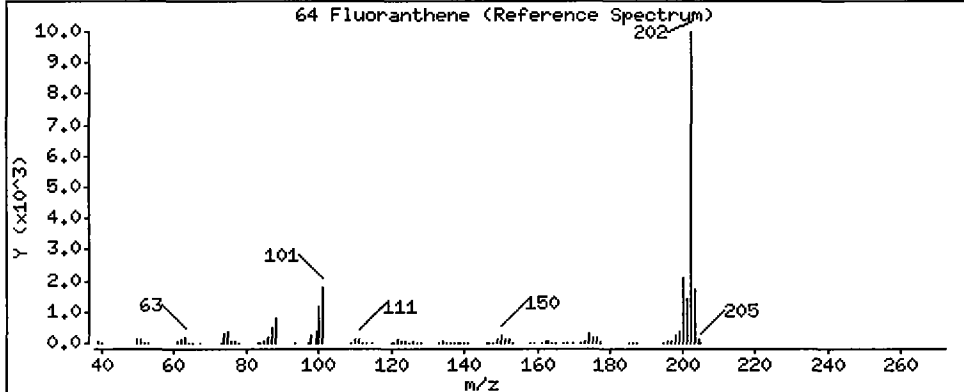
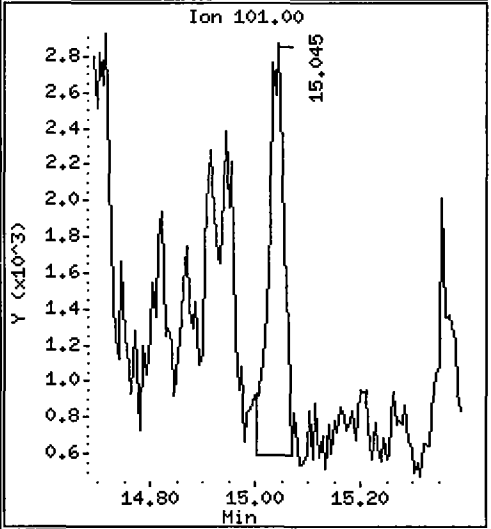
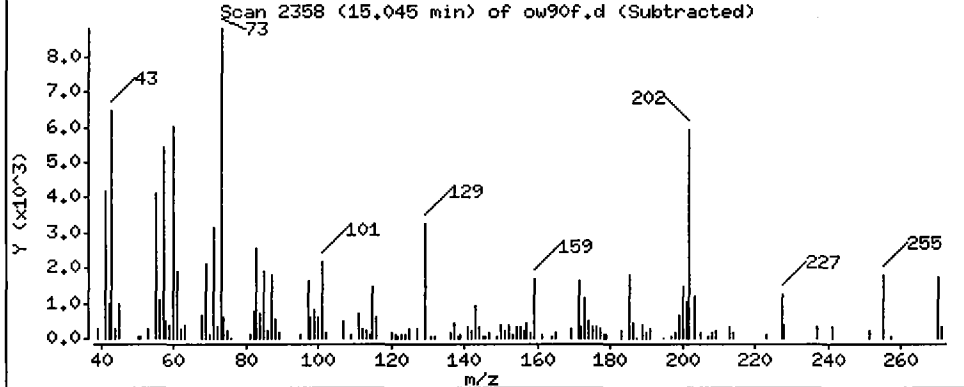
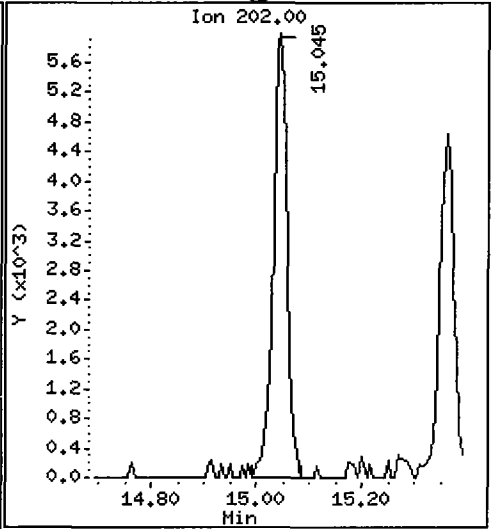
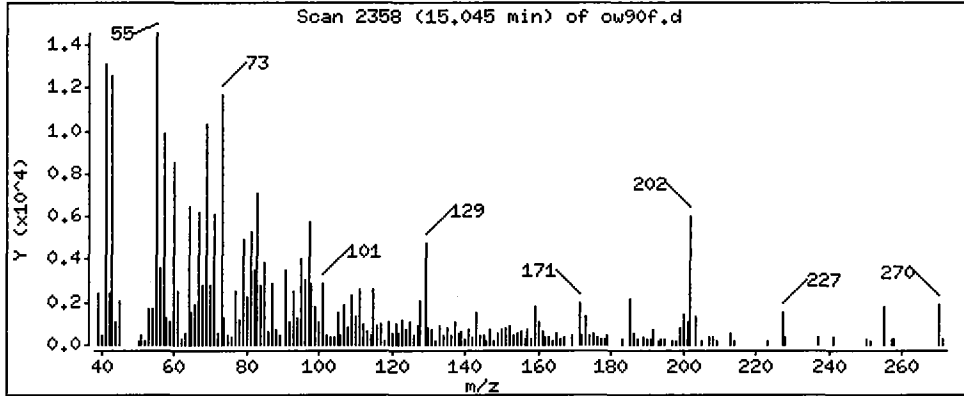
Column phase: ZB-5

Column diameter: 0.32

JLR

64 Fluoranthene

Concentration: 9.914 ug/kg



Semivolatile Analysis
Standard Raw Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

OW90 : 00145

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No: OW90

Project: FORMER CUSTOM PLYWOO

Instrument ID: NT4

Calibration Date: 04/08/09

LAB FILE ID:	RRF1 =0010408	RRF5 =0050408	RRF10 =0100408
	RRF25 =0250408	RRF40 =0400408	RRF80 =0800408

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	RRF	%RSD /R^2
Phenol	2.927	2.951	2.801	2.486	2.284	2.022	2.578	14.7
Bis(2-Chloroethyl)ether	2.188	2.112	2.086	1.830	1.741	1.592	1.925	12.4
2-Chlorophenol	1.710	1.744	1.664	1.491	1.428	1.274	1.552	11.9
1,3-Dichlorobenzene	1.806	1.812	1.816	1.580	1.547	1.438	1.666	9.9
1,4-Dichlorobenzene	1.810	1.821	1.770	1.567	1.513	1.367	1.641	11.4
1,2-Dichlorobenzene	1.736	1.737	1.708	1.459	1.400	1.233	1.546	13.8
Benzyl alcohol	1.157	1.288	1.256	1.181	1.081	0.977	1.157	9.9
2,2'-oxybis(1-Chloropropane)	2.425	2.385	2.272	1.952	1.710	1.369	2.019	0.999
2-Methylphenol	1.697	1.799	1.728	1.568	1.491	1.305	1.598	11.4
Hexachloroethane	0.741	0.765	0.773	0.673	0.647	0.578	0.696	11.0
N-Nitroso-di-n-propylamine	1.592	1.567	1.494	1.292	1.179	1.057	1.364	16.2
4-Methylphenol	1.831	1.877	1.792	1.603	1.490	1.299	1.649	13.7
Nitrobenzene	0.660	0.654	0.640	0.548	0.505	0.447	0.576	15.5
Isophorone	1.111	1.145	1.103	0.970	0.909	0.883	1.020	11.1
2-Nitrophenol		0.249	0.246	0.224	0.225	0.213	0.231	6.7
2,4-Dimethylphenol	0.508	0.528	0.516	0.460	0.441	0.398	0.475	10.6
Bis(2-Chloroethoxy)methane	0.673	0.687	0.658	0.573	0.540	0.497	0.605	13.0
2,4-Dichlorophenol	0.328	0.356	0.340	0.312	0.298	0.279	0.319	8.9
1,2,4-Trichlorobenzene	0.366	0.366	0.359	0.313	0.306	0.284	0.332	10.8
Naphthalene	1.315	1.295	1.256	1.061	0.971	0.838	1.123	17.4
Benzoic acid		0.343	0.367	0.376	0.376	0.380	0.368	4.1
4-Chloroaniline	0.540	0.555	0.531	0.493	0.445	0.410	0.496	11.7
Hexachlorobutadiene	0.184	0.184	0.185	0.159	0.158	0.148	0.170	9.9
4-Chloro-3-methylphenol		0.440	0.427	0.390	0.371	0.349	0.395	9.6
2-Methylnaphthalene	0.692	0.719	0.674	0.618	0.566	0.518	0.631	12.4
Hexachlorocyclopentadiene		0.260	0.302	0.308	0.319	0.332	0.304	8.9
2,4,6-Trichlorophenol		0.414	0.420	0.386	0.394	0.397	0.402	3.5
2,4,5-Trichlorophenol		0.411	0.426	0.406	0.408	0.411	0.412	1.9
2-Chloronaphthalene	1.450	1.444	1.402	1.176	1.078	0.937	1.248	17.3
2-Nitroaniline		0.592	0.568	0.536	0.495	0.469	0.532	9.5
Acenaphthylene	2.360	2.421	2.379	2.051	1.944	1.779	2.156	12.4
Dimethylphthalate	1.553	1.601	1.570	1.369	1.332	1.351	1.463	8.5
2,6-Dinitrotoluene		0.364	0.356	0.312	0.306	0.308	0.329	8.7
Acenaphthene	1.457	1.451	1.427	1.242	1.182	1.088	1.308	12.1
3-Nitroaniline		0.433	0.419	0.386	0.375	0.378	0.398	6.6
2,4-Dinitrophenol		0.094	0.128	0.148	0.161	0.159	0.138	0.996
Dibenzofuran	1.967	2.001	1.896	1.731	1.609	1.544	1.791	10.7

<- Outside QC limits: <20% RSD or >0.990 R^2

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No: OW90

Project: FORMER CUSTOM PLYWOO

Instrument ID: NT4

Calibration Date: 04/08/09

LAB FILE ID:	RRF1 =0010408	RRF5 =0050408	RRF10 =0100408
	RRF25 =0250408	RRF40 =0400408	RRF80 =0800408

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	RRF	%RSD /R^2
4-Nitrophenol		0.221	0.226	0.216	0.211	0.188	0.212	6.9
2,4-Dinitrotoluene		0.458	0.462	0.410	0.412	0.423	0.433	5.8
Fluorene	1.596	1.620	1.590	1.365	1.281	1.129	1.430	14.2
4-Chlorophenyl-phenylether	0.675	0.675	0.661	0.565	0.539	0.499	0.602	12.9
Diethylphthalate	1.563	1.606	1.594	1.384	1.359	1.332	1.473	8.7
4-Nitroaniline		0.402	0.394	0.378	0.368	0.387	0.386	3.4
4,6-Dinitro-2-methylphenol		0.131	0.152	0.150	0.157	0.149	0.148	6.5
N-Nitrosodiphenylamine (1)	0.777	0.802	0.781	0.677	0.638	0.565	0.707	13.5
4-Bromophenyl-phenylether	0.262	0.271	0.268	0.237	0.229	0.214	0.247	9.5
Hexachlorobenzene	0.271	0.272	0.269	0.237	0.230	0.216	0.249	9.8
Pentachlorophenol		0.135	0.147	0.147	0.154	0.153	0.147	5.2
Phenanthrene	1.442	1.472	1.446	1.246	1.176	1.050	1.305	13.3
Anthracene	1.539	1.498	1.492	1.292	1.197	1.048	1.344	14.7
Carbazole	1.366	1.367	1.341	1.180	1.126	1.007	1.231	12.2
Di-n-butylphthalate	1.720	1.812	1.810	1.557	1.474	1.276	1.608	13.2
Fluoranthene	1.379	1.440	1.420	1.230	1.184	1.083	1.289	11.3
Pyrene	1.712	1.815	1.742	1.543	1.468	1.348	1.605	11.3
Butylbenzylphthalate	0.900	0.935	0.928	0.847	0.804	0.753	0.861	8.5
Benzo(a)anthracene	1.600	1.577	1.535	1.340	1.279	1.200	1.422	12.0
3,3'-Dichlorobenzidine		0.583	0.561	0.517	0.484	0.448	0.519	10.6
Chrysene	1.535	1.531	1.522	1.334	1.269	1.211	1.400	10.5
bis(2-Ethylhexyl)phthalate	0.661	0.689	0.691	0.618	0.599	0.546	0.634	9.0
Di-n-octylphthalate	1.257	1.220	1.205	1.074	1.032	0.943	1.122	11.1
Benzo(b)fluoranthene	1.508	1.541	1.584	1.272	1.304	1.394	1.434	9.1
Benzo(k)fluoranthene	1.699	1.579	1.451	1.364	1.222	0.952	1.378	19.3
Benzo(a)pyrene	1.451	1.448	1.390	1.228	1.175	1.114	1.301	11.3
Indeno(1,2,3-cd)pyrene	1.730	1.768	1.732	1.562	1.500	1.416	1.618	9.0
Dibenzo(a,h)anthracene	1.438	1.483	1.455	1.296	1.224	1.112	1.335	11.2
Benzo(g,h,i)perylene	1.510	1.527	1.522	1.404	1.345	1.287	1.432	7.2
N-Nitrosodimethylamine		1.391	1.371	1.243	1.221	1.255	1.296	6.1
Aniline		3.423	3.170	2.926	2.509	2.364	2.878	15.4
Benzidine		0.806	0.682	0.771	0.464	0.383	0.621	30.3 <-
Pyridine		2.529	2.144	2.019	2.187	2.186	2.213	8.6
1-methylnaphthalene	0.668	0.679	0.664	0.579	0.545	0.489	0.604	12.9
Azobenzene (1,2-DP-Hydrazine)	2.218	2.259	2.202	1.886	1.697	1.533	1.966	15.6
2-Fluorophenol		1.718	1.746	1.603	1.569	1.536	1.634	5.7

(1) Cannot be separated from Diphenylamine

<- Outside QC limits: <20% RSD or >0.990 R^2

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-APR-2009 17:00
 End Cal Date : 08-APR-2009 19:52
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff
 Curve Type : Average

Calibration File Names:

- Level 1: /chem3/nt4.i/20090408.b/0010408.d
- Level 2: /chem3/nt4.i/20090408.b/0050408.d
- Level 3: /chem3/nt4.i/20090408.b/0100408.d
- Level 4: /chem3/nt4.i/20090408.b/0250408.d
- Level 5: /chem3/nt4.i/20090408.b/0400408.d
- Level 6: /chem3/nt4.i/20090408.b/0800408.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
179 n-Decane	2.14228	2.12293	1.98678	1.81371	1.57576	1.30562	1.82451	18.139	
180 n-Octadecane	0.86392	0.87229	0.82078	0.71615	0.60511	0.47934	0.72627	21.767	<- QUAD
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
168 Pentachlorobenzene	0.47592	0.49111	0.47304	0.41682	0.40301	0.39507	0.44249	9.524	
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

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 Cal Date : 09-Apr-2009 09:19 jeff
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
141 Diallate B	++++	++++	++++	++++	++++	++++	++++	++++	<-
142 1,2-Dibromo-3-Chloropropane	++++	++++	++++	++++	++++	++++	++++	++++	<-
135 2,3,5,6-Tetrachlorophenol	++++	++++	++++	++++	++++	++++	++++	++++	<-
136 2,3,4,5-tetrachlorophenol	++++	++++	++++	++++	++++	++++	++++	++++	<-
133 Butylatedhydroxytoluene	0.98157	0.97450	0.93112	0.90336	0.81103	0.69760	0.88320	12.441	
132 3,6-Dimethylphenanthrene	++++	++++	++++	++++	++++	++++	++++	++++	<-
131 1-Methylphenanthrene	++++	++++	++++	++++	++++	++++	++++	++++	<-
130 Dibenzothiophene	++++	++++	++++	++++	++++	++++	++++	++++	<-
129 1-Methylfluorene	++++	++++	++++	++++	++++	++++	++++	++++	<-
128 N-Hexadecane	++++	++++	++++	++++	++++	++++	++++	++++	<-
127 2-Isopropyl-naphthalene	++++	++++	++++	++++	++++	++++	++++	++++	<-
126 N-Tetradecane	++++	++++	++++	++++	++++	++++	++++	++++	<-
144 alpha-Terpineol	0.37103	0.37188	0.34753	0.30207	0.26405	0.22113	0.31295	19.689	
125 Safrole	++++	++++	++++	++++	++++	++++	++++	++++	<-
124 3,4-Dimethylphenol	++++	++++	++++	++++	++++	++++	++++	++++	<-
123 Acetophenone	2.47220	2.51749	2.47449	2.16578	2.06719	1.94876	2.27432	10.753	
122 Furfuraldehyde	++++	++++	++++	++++	++++	++++	++++	++++	<-
143 1,4-Dioxane	0.91448	0.87137	0.87551	0.76237	0.80155	0.78999	0.83588	7.117	
121 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++	<-
120 2,3,4,6-Tetrachlorophenol	++++	++++	++++	++++	++++	++++	++++	++++	<-
178 2-Benzyl-4-Chlorophenol	++++	++++	++++	++++	++++	++++	++++	++++	<-
119 7,12-Dimethylbenz(a)anthracen	++++	++++	++++	++++	++++	++++	++++	++++	<-
118 Triphenyl Phosphate	0.26490	0.27814	0.28007	0.25802	0.25729	0.25594	0.26573	4.077	
117 Butyl Diphenyl Phosphate	0.46350	0.48063	0.46078	0.41332	0.38039	0.31858	0.41953	14.743	
116 Dibutyl Phenyl Phosphate	0.72604	0.77405	0.76814	0.68965	0.67611	0.58046	0.70241	10.215	
115 Tributyl Phosphate	1.60281	1.65453	1.58218	1.34942	1.23412	1.01135	1.40573	17.997	
114 Beta-Pinene	++++	++++	++++	++++	++++	++++	++++	++++	<-
113 Diphenyl Oxide	++++	0.96598	0.92878	0.86620	0.81355	0.78507	0.87192	8.709	
112 Biphenyl	++++	2.06745	1.94099	1.70165	1.48716	1.19416	1.67828	20.895	<- QUAD

Analytical Resources, Inc.

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 Cal Date : 09-Apr-2009 09:19 jeff
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD
111 Azobenzene (1,2-DP-Hydrazine)	2.21805	2.25915	2.20204	1.88603	1.69715	1.53335	1.96596	15.612
110 Tetrachloroguaiacol	++++	++++	++++	++++	++++	++++	++++	++++ <-
109 3,4,5-Trichloroguaiacol	++++	++++	++++	++++	++++	++++	++++	++++ <-
181 3,4,6-Trichloroguaiacol	++++	++++	++++	++++	++++	++++	++++	++++ <-
108 4,5,6-Trichloroguaiacol	++++	++++	++++	++++	++++	++++	++++	++++ <-
184 3,4-Dichloroguaiacol	++++	++++	++++	++++	++++	++++	++++	++++ <-
107 4,5-Dichloroguaiacol	++++	++++	++++	++++	++++	++++	++++	++++ <-
182 4,6-Dichloroguaiacol	++++	++++	++++	++++	++++	++++	++++	++++ <-
185 4-Chloroguaiacol	++++	++++	++++	++++	++++	++++	++++	++++ <-
106 Guaiacol	++++	++++	++++	++++	++++	++++	++++	++++ <-
105 1-methylnaphthalene	0.66776	0.67906	0.66380	0.57940	0.54549	0.48894	0.60408	12.938
151 1,2,4,5-Tetrachlorobenzene	++++	++++	++++	++++	++++	++++	++++	++++ <-
152 Benzo(e)pyrene	++++	++++	++++	++++	++++	++++	++++	++++ <-
153 Chlorpyrifos	++++	++++	++++	++++	++++	++++	++++	++++ <-
154 Diazinon	++++	++++	++++	++++	++++	++++	++++	++++ <-
155 Kelthane	++++	++++	++++	++++	++++	++++	++++	++++ <-
156 Methyl Parathion	++++	++++	++++	++++	++++	++++	++++	++++ <-
157 Ethyl Parathion	++++	++++	++++	++++	++++	++++	++++	++++ <-
158 Ethion	++++	++++	++++	++++	++++	++++	++++	++++ <-
159 4-Nonylphenol	++++	++++	++++	++++	++++	++++	++++	++++ <-
160 Tetraethyl Tin	++++	++++	++++	++++	++++	++++	++++	++++ <-
161 1,2,3-Trichloronaphthalene	++++	++++	++++	++++	++++	++++	++++	++++ <-
162 1,2,3,4-Tetrachloronaphthalene	++++	++++	++++	++++	++++	++++	++++	++++ <-
163 1,2,3,5,8-Pentachloronaphthal	++++	++++	++++	++++	++++	++++	++++	++++ <-
164 1,2,3,4,6,7-Hexachloronaphtha	++++	++++	++++	++++	++++	++++	++++	++++ <-
165 1,2,3,4,5,6,7-Heptachloronaph	++++	++++	++++	++++	++++	++++	++++	++++ <-
166 Octachloronaphthalene	++++	++++	++++	++++	++++	++++	++++	++++ <-
167 2,2',4,4',5-Pentabromobipheny	++++	++++	++++	++++	++++	++++	++++	++++ <-
3 Phenol	2.92707	2.95092	2.80121	2.48632	2.28374	2.02252	2.57863	14.658

Analytical Resources, Inc.

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 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD
4 Bis(2-Chloroethyl)ether	2.18836	2.11184	2.08644	1.83054	1.74142	1.59226	1.92514	12.372
6 2-Chlorophenol	1.71055	1.74458	1.66377	1.49084	1.42796	1.27418	1.55198	11.917
7 1,3-Dichlorobenzene	1.80620	1.81225	1.81647	1.58039	1.54681	1.43774	1.66664	9.944
9 1,4-Dichlorobenzene	1.80962	1.82075	1.76998	1.56695	1.51330	1.36673	1.64122	11.379
11 Benzyl alcohol	1.15689	1.28854	1.25577	1.18103	1.08139	0.97684	1.15674	9.918
12 1,2-Dichlorobenzene	1.73652	1.73689	1.70754	1.45866	1.40005	1.23283	1.54542	13.752
13 2-Methylphenol	1.69727	1.79882	1.72800	1.56850	1.49149	1.30474	1.59814	11.377
14 2,2'-oxybis(1-Chloropropane)	2.42461	2.38536	2.27199	1.95240	1.71051	1.36887	2.01896	20.838 <-QUAD
15 4-Methylphenol	1.83133	1.87717	1.79216	1.60262	1.49024	1.29909	1.64877	13.713
16 N-Nitroso-di-n-propylamine	1.59195	1.56687	1.49400	1.29186	1.17916	1.05687	1.36345	16.192
17 Hexachloroethane	0.74099	0.76535	0.77314	0.67343	0.64715	0.57813	0.69636	11.044
19 Nitrobenzene	0.65988	0.65403	0.63973	0.54853	0.50490	0.44663	0.57562	15.486
20 Isophorone	1.11098	1.14511	1.10344	0.97023	0.90908	0.88280	1.02028	11.132
21 2-Nitrophenol	++++	0.24886	0.24637	0.22458	0.22460	0.21329	0.23154	6.654
22 2,4-Dimethylphenol	0.50772	0.52757	0.51559	0.46014	0.44074	0.39840	0.47503	10.628
23 Bis(2-Chloroethoxy)methane	0.67291	0.68663	0.65801	0.57321	0.53956	0.49692	0.60454	13.037
24 Benzoic acid	++++	0.34276	0.36662	0.37573	0.37573	0.38029	0.36823	4.095
25 2,4-Dichlorophenol	0.32783	0.35629	0.34043	0.31200	0.29810	0.27866	0.31888	8.915
26 1,2,4-Trichlorobenzene	0.36586	0.36618	0.35921	0.31270	0.30551	0.28354	0.33217	10.836
28 Naphthalene	1.31477	1.29466	1.25628	1.06097	0.97126	0.83851	1.12274	17.445
29 4-Chloroaniline	0.54015	0.55498	0.53142	0.49288	0.44493	0.40981	0.49569	11.669
30 Hexachlorobutadiene	0.18447	0.18430	0.18511	0.15918	0.15760	0.14769	0.16973	9.895
31 4-Chloro-3-methylphenol	++++	0.44037	0.42673	0.39008	0.37144	0.34905	0.39553	9.589
32 2-Methylnaphthalene	0.69238	0.71917	0.67443	0.61823	0.56622	0.51795	0.63140	12.383
33 Hexachlorocyclopentadiene	++++	0.26024	0.30241	0.30753	0.31898	0.33194	0.30422	8.904
34 2,4,6-Trichlorophenol	++++	0.41448	0.41972	0.38594	0.39390	0.39740	0.40229	3.546
35 2,4,5-Trichlorophenol	++++	0.41097	0.42598	0.40648	0.40847	0.41136	0.41265	1.868
37 2-Chloronaphthalene	1.44996	1.44357	1.40205	1.17633	1.07835	0.93714	1.24790	17.311
38 2-Nitroaniline	++++	0.59223	0.56766	0.53650	0.49470	0.46892	0.53200	9.533

Analytical Resources, Inc.

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 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD
39 Dimethylphthalate	1.55308	1.60141	1.56964	1.36939	1.33240	1.35090	1.46280	8.485
40 Acenaphthylene	2.35951	2.42134	2.37914	2.05093	1.94427	1.77881	2.15567	12.443
41 2,6-Dinitrotoluene	++++	0.36459	0.35597	0.31169	0.30580	0.30846	0.32930	8.661
43 3-Nitroaniline	++++	0.43303	0.41871	0.38621	0.37464	0.37764	0.39804	6.593
44 Acenaphthene	1.45695	1.45103	1.42675	1.24191	1.18244	1.08800	1.30785	12.103
45 2,4-Dinitrophenol	++++	0.09358	0.12860	0.14805	0.16123	0.15927	0.13815	20.328 <- LIN
46 Dibenzofuran	1.96726	2.00090	1.89643	1.73086	1.60919	1.54408	1.79145	10.705
47 4-Nitrophenol	++++	0.22115	0.22643	0.21594	0.21063	0.18853	0.21253	6.894
48 2,4-Dinitrotoluene	++++	0.45766	0.46240	0.41038	0.41234	0.42297	0.43315	5.785
49 Fluorene	1.59645	1.62022	1.58970	1.36488	1.28076	1.12865	1.43011	14.218
50 Diethylphthalate	1.56293	1.60618	1.59430	1.38359	1.35862	1.33257	1.47303	8.658
51 4-Chlorophenyl-phenylether	0.67478	0.67499	0.66090	0.56539	0.53861	0.49931	0.60233	12.860
52 4-Nitroaniline	++++	0.40220	0.39371	0.37811	0.36812	0.38668	0.38576	3.439
53 4,6-Dinitro-2-methylphenol	++++	0.13142	0.15176	0.14979	0.15662	0.14923	0.14776	6.490
54 N-Nitrosodiphenylamine	0.77724	0.80218	0.78071	0.67694	0.63836	0.56500	0.70674	13.454
56 4-Bromophenyl-phenylether	0.26201	0.27079	0.26755	0.23737	0.22929	0.21363	0.24677	9.475
57 Hexachlorobenzene	0.27062	0.27188	0.26925	0.23680	0.22971	0.21645	0.24912	9.802
58 Pentachlorophenol	++++	0.13465	0.14737	0.14747	0.15426	0.15283	0.14732	5.248
60 Phenanthrene	1.44180	1.47174	1.44650	1.24591	1.17565	1.05054	1.30536	13.336
61 Anthracene	1.53883	1.49835	1.49194	1.29237	1.19742	1.04835	1.34454	14.696
62 Carbazole	1.36568	1.36722	1.34135	1.18017	1.12571	1.00664	1.23113	12.204
63 Di-n-butylphthalate	1.71966	1.81256	1.81011	1.55738	1.47368	1.27638	1.60829	13.212
64 Fluoranthene	1.37930	1.44056	1.42046	1.23005	1.18368	1.08270	1.28946	11.267
65 Pyrene	1.71222	1.81545	1.74190	1.54334	1.46828	1.34765	1.60481	11.259
67 Butylbenzylphthalate	0.89980	0.93468	0.92774	0.84707	0.80367	0.75322	0.86103	8.453
68 Benzo(a)anthracene	1.60042	1.57677	1.53479	1.33995	1.27916	1.20010	1.42186	11.972
70 3,3'-Dichlorobenzidine	++++	0.58274	0.56129	0.51723	0.48410	0.44802	0.51867	10.608
71 Chrysene	1.53549	1.53128	1.52175	1.33409	1.26936	1.21104	1.40050	10.471
72 bis(2-Ethylhexyl)phthalate	0.66066	0.68916	0.69125	0.61768	0.59893	0.54651	0.63403	8.973

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-APR-2009 17:00
 End Cal Date : 08-APR-2009 19:52
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD
73 Di-n-octylphthalate	1.25725	1.22053	1.20493	1.07365	1.03197	0.94282	1.12186	11.092
74 Benzo(b)fluoranthene	1.50791	1.54129	1.58446	1.27216	1.30380	1.39424	1.43398	9.057
75 Benzo(k)fluoranthene	1.69895	1.57942	1.45116	1.36404	1.22198	0.95249	1.37801	19.324
76 Benzo(a)pyrene	1.45123	1.44825	1.39038	1.22779	1.17519	1.11435	1.30120	11.309
78 Indeno(1,2,3-cd)pyrene	1.72953	1.76857	1.73259	1.56252	1.50060	1.41559	1.61823	9.001
79 Dibenzo(a,h)anthracene	1.43791	1.48348	1.45515	1.29615	1.22423	1.11154	1.33474	11.152
80 Benzo(g,h,i)perylene	1.50976	1.52684	1.52244	1.40406	1.34531	1.28727	1.43261	7.150
90 N-Nitrosodimethylamine	++++	1.39146	1.37108	1.24329	1.22107	1.25547	1.29647	6.071
91 Aniline	++++	3.42288	3.16989	2.92610	2.50880	2.36434	2.87840	15.386
92 1,2-Diphenylhydrazine	++++	++++	++++	++++	++++	++++	++++	++++
93 Benzidine	++++	0.80619	0.68249	0.77141	0.46430	0.38268	0.62141	30.326
96 p-Cymene	++++	++++	++++	++++	++++	++++	++++	++++
97 Caffeine	++++	++++	++++	++++	++++	++++	++++	++++
98 Retene	0.54446	0.57304	0.55827	0.51879	0.51217	0.48049	0.53120	6.383
99 Perylene	++++	++++	++++	++++	++++	++++	++++	++++
100 3-beta-Coprostanol	++++	++++	++++	++++	++++	++++	++++	++++
101 Cholesterol	++++	++++	++++	++++	++++	++++	++++	++++
102 beta-Sitosterol	++++	++++	++++	++++	++++	++++	++++	++++
103 Pyridine	++++	2.52945	2.14386	2.01925	2.18745	2.18625	2.21325	8.568
\$ 1 2-Fluorophenol	++++	1.71788	1.74616	1.60266	1.56913	1.53637	1.63444	5.669
\$ 137 d8-1,4-Dioxane	++++	0.79395	0.80060	0.68107	0.72661	0.72564	0.74557	6.801
\$ 2 Phenol-d5	2.40754	2.49332	2.38502	2.09746	1.93724	1.77407	2.18244	13.319
\$ 5 2-Chlorophenol-d4	++++	1.47029	1.42538	1.28034	1.23463	1.13916	1.30996	10.436
\$ 10 1,2-Dichlorobenzene-d4	1.02976	1.03895	1.01126	0.90002	0.84678	0.74321	0.92833	12.847
\$ 18 Nitrobenzene-d5	++++	0.61944	0.60039	0.53752	0.50885	0.47456	0.54815	11.128
\$ 36 2-Fluorobiphenyl	++++	1.67060	1.61820	1.43112	1.36644	1.30712	1.47870	10.724
\$ 55 2,4,6-Tribromophenol	++++	0.17361	0.17975	0.16611	0.16584	0.17464	0.17199	3.469
\$ 66 Terphenyl-d14	++++	1.09253	1.04343	0.95517	0.91575	0.86657	0.97469	9.481

Analytical Resources, Inc.

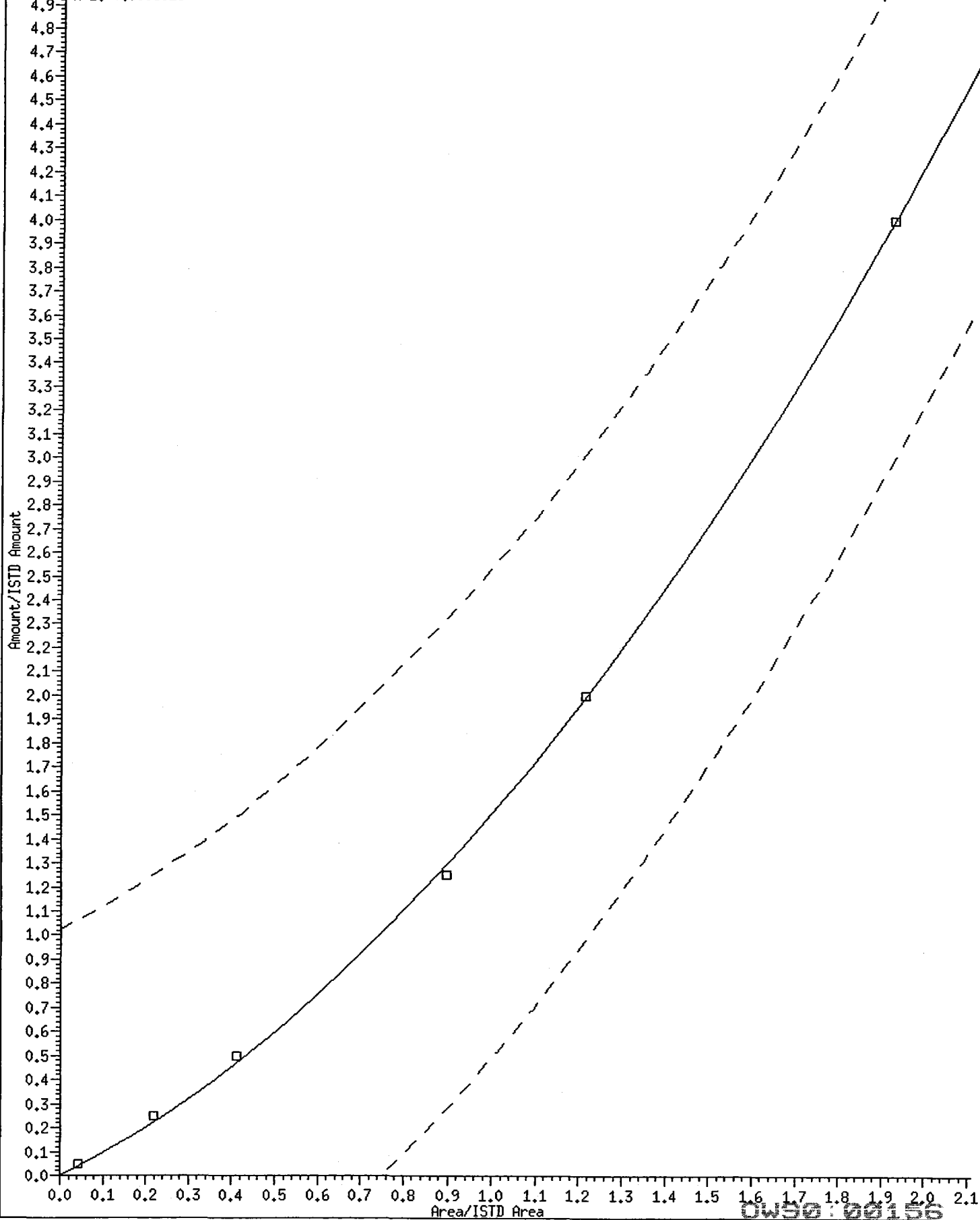
INITIAL CALIBRATION DATA

Start Cal Date : 08-APR-2009 17:00
 End Cal Date : 08-APR-2009 19:52
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
\$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
\$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
\$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
\$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
\$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
\$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

180 n-Octadecane

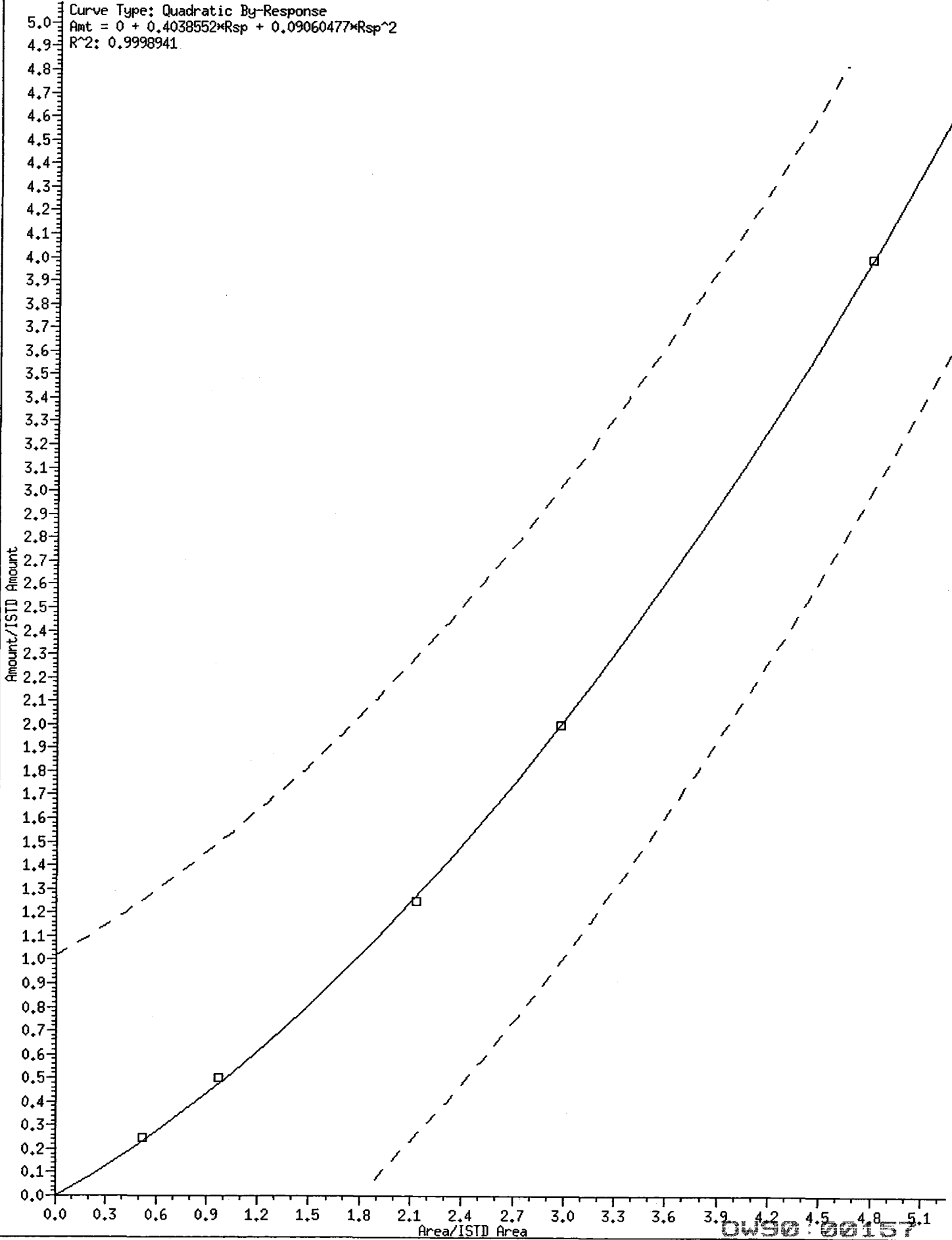
Curve Type: Quadratic By-Response
Amt = 0 + 0.8861657*Rsp + 0.6250471*Rsp^2
R^2: 0.9996928



0050:00156

112 Biphenyl

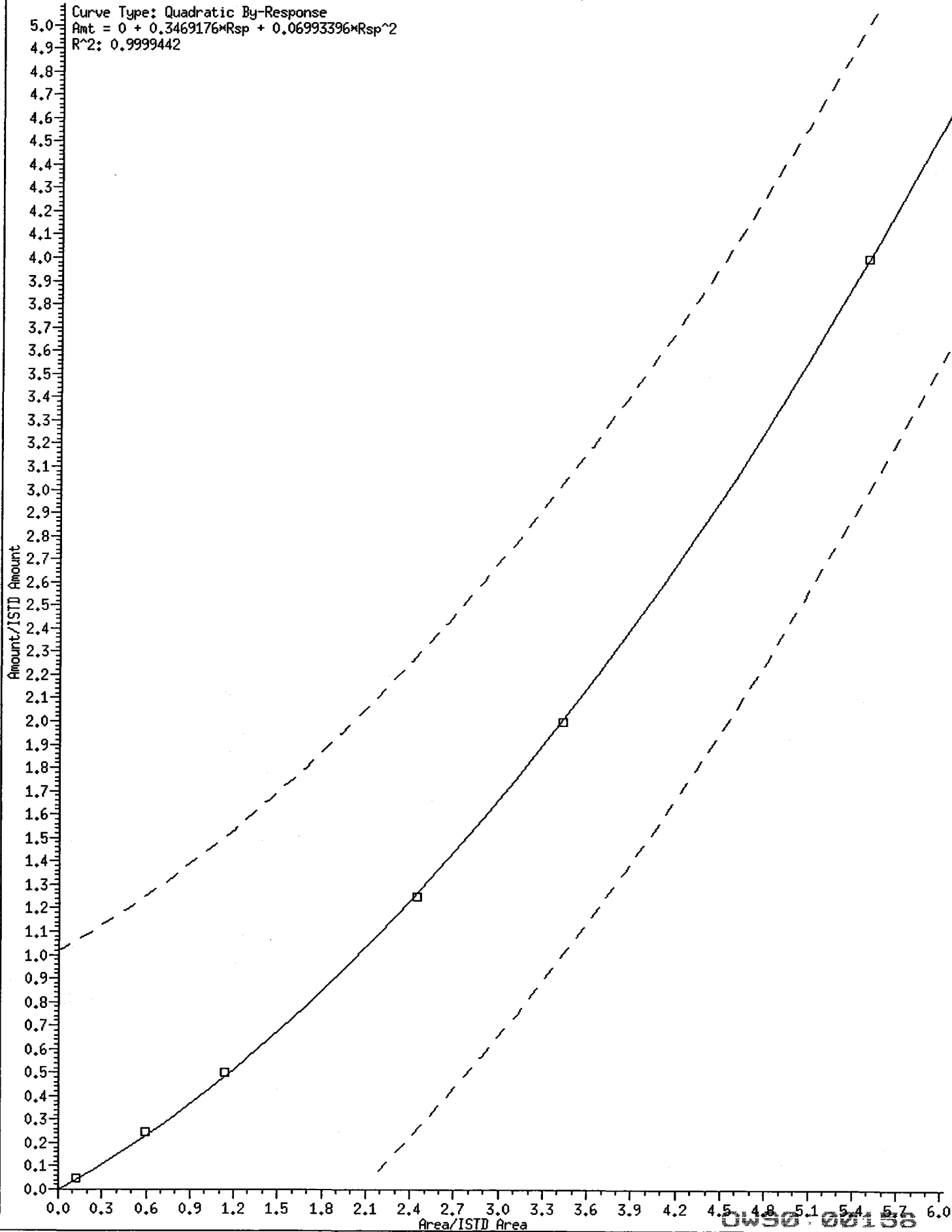
Curve Type: Quadratic By-Response
Amt = 0 + 0.4038552*Rsp + 0.09060477*Rsp^2
R^2: 0.9998941



0050.00157

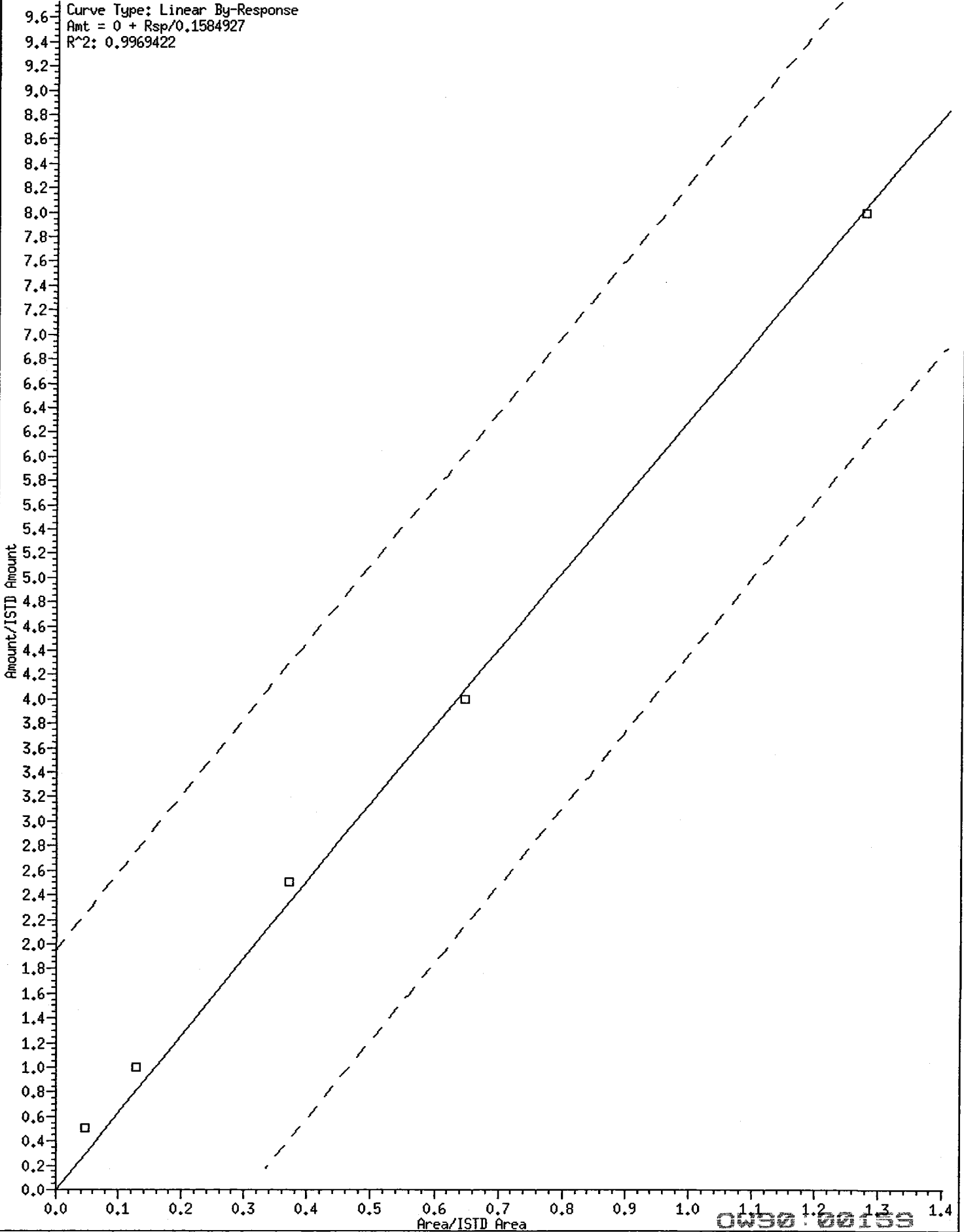
14 2,2'-oxybis(1-Chloropropane)

Curve Type: Quadratic By-Response
Amt = 0 + 0.3469176*Rsp + 0.06993396*Rsp^2
R^2: 0.9999442



0W30-00150

45 2,4-Dinitrophenol



0030:00153

Analytical Resources, Inc.

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 Target Version : 3.50
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 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff

Calibration File Names:

Level 1: /chem3/nt4.i/20090408.b/0010408.d
 Level 2: /chem3/nt4.i/20090408.b/0050408.d
 Level 3: /chem3/nt4.i/20090408.b/0100408.d
 Level 4: /chem3/nt4.i/20090408.b/0250408.d
 Level 5: /chem3/nt4.i/20090408.b/0400408.d
 Level 6: /chem3/nt4.i/20090408.b/0800408.d

Compound	Level						Coefficients		RSD or R^2
	1	5	10	25	40	80	b	m1 m2	
179 n-Decane	2.14228	2.12293	1.98678	1.81371	1.57576	1.30562	0.000e+00	1.82451	18.13860
180 n-Octadecane	22187	107731	200732	383721	581594	937152	0.000e+00	0.88617	0.99969
169 4-tert-Butylphenol	++++	++++	++++	++++	++++	++++		0.000e+00	<
170 N,N-Dimethylaniline	++++	++++	++++	++++	++++	++++		0.000e+00	<
171 2,3-Dimethylaniline	++++	++++	++++	++++	++++	++++		0.000e+00	<
172 2,4-Dimethylaniline	++++	++++	++++	++++	++++	++++		0.000e+00	<
173 2,5-Dimethylaniline	++++	++++	++++	++++	++++	++++		0.000e+00	<
174 2,6-Dimethylaniline	++++	++++	++++	++++	++++	++++		0.000e+00	<
175 3,4-Dimethylaniline	++++	++++	++++	++++	++++	++++		0.000e+00	<
176 3,5-Dimethylaniline	++++	++++	++++	++++	++++	++++		0.000e+00	<
177 p-Benzoquinone	++++	++++	++++	++++	++++	++++		0.000e+00	<
168 Pentachlorobenzene	0.47592	0.49111	0.47304	0.41682	0.40301	0.39507	0.44249	0.44249	9.52430
145 4,4'-DDE	++++	++++	++++	++++	++++	++++		0.000e+00	<
146 4,4'-DDD	++++	++++	++++	++++	++++	++++		0.000e+00	<

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff

Compound	1	5	10	25	40	80	Curve	b	Coefficients ml	m2	%RSD or R ²
123 Acetophenone	2.47220	2.51749	2.47449	2.16578	2.06719	1.94876	AVRG		2.27432		10.75278
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
143 1,4-Dioxane	0.91448	0.87137	0.87551	0.76237	0.80155	0.78999	AVRG		0.83588		7.11703
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
118 Triphenyl Phosphate	0.26490	0.27814	0.28007	0.25802	0.25729	0.25594	AVRG		0.26573		4.07701
117 Butyl Diphenyl Phosphate	0.46350	0.48063	0.46078	0.41332	0.38039	0.31858	AVRG		0.41953		14.74346
116 Dibutyl Phenyl Phosphate	0.72604	0.77405	0.76814	0.68965	0.67611	0.58046	AVRG		0.70241		10.21461
115 Tributyl Phosphate	1.60281	1.65453	1.58218	1.34942	1.23412	1.01135	AVRG		1.40573		17.99747
114 Beta-Finene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
113 Diphenyl Oxide	+++++	0.96598	0.92878	0.86620	0.81355	0.78507	AVRG		0.87192		8.70875
112 Biphenyl	+++++	183629	341849	650833	985554	1470561	QUAD	0.000e+00	0.40386	0.09060	0.99989
111 Azobenzene (1,2-DP-Hydrazine)	2.21805	2.25915	2.20204	1.88603	1.69715	1.53335	AVRG		1.96596		15.61236
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
181 3,4,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	b	Coefficients		%RSD or R^2
									ml	m2	
185 4-Chloroguaiacol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
106 Guaiacol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
105 1-methylnaphthalene	0.66776	0.67906	0.66380	0.57940	0.54549	0.48894	AVRG		0.60408		12.93820
151 1,2,4,5-Tetrachlorobenzene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
152 Benzo(e)pyrene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
153 Chlorpyrifos	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
154 Diazinon	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
155 Kelthane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
156 Methyl Parathion	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
157 Ethyl Parathion	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
158 Ethion	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
159 4-Nonylphenol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
160 Tetraethyl Tin	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
161 1,2,3-Trichloronaphthalene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
162 1,2,3,4-Tetrachloronaphthalene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
163 1,2,3,5,8-Pentachloronaphthal	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
164 1,2,3,4,6,7-Heptachloronaphtha	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
165 1,2,3,4,5,6,7-Heptachloronaph	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
166 Octachloronaphthalene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
167 2,2',4,4',5-Pentabromobipheny	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
3 Phenol	2.92707	2.95092	2.80121	2.48632	2.28374	2.02252	AVRG		2.57863		14.65758
4 Bis(2-Chloroethyl) ether	2.18836	2.11184	2.08644	1.83054	1.74142	1.59226	AVRG		1.92514		12.37247

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Analytical Resources, Inc.
INITIAL CALIBRATION DATA

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 Cal Date : 09-Apr-2009 09:19 jeff

Compound	1		5		10		25		40		80		Coefficients		R^2 or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2					
6 2-Chlorophenol	1.71055	1.74458	1.66377	1.49084	1.42796	1.27418	AVRG		1.55198					11.91682	
7 1,3-Dichlorobenzene	1.80620	1.81225	1.81647	1.58039	1.54681	1.43774	AVRG		1.66664					9.94353	
9 1,4-Dichlorobenzene	1.80962	1.82075	1.76998	1.56695	1.51330	1.36673	AVRG		1.64122					11.37924	
11 Benzyl alcohol	1.15689	1.28854	1.25577	1.18103	1.08139	0.97684	AVRG		1.15674					9.91810	
12 1,2-Dichlorobenzene	1.73652	1.73689	1.70754	1.45866	1.40005	1.23283	AVRG		1.54542					13.75208	
13 2-Methylphenol	1.69727	1.79882	1.72800	1.56850	1.49149	1.30474	AVRG		1.59814					11.37709	
14 2,2'-oxybis(1-Chloropropane)	25575	120036	229788	420886	644378	979644	QUAD	0.000e+00	0.34692	0.06993				0.99994	
15 4-Methylphenol	1.83133	1.87717	1.79216	1.60262	1.49024	1.29909	AVRG		1.64877					13.71283	
16 N-Nitroso-di-n-propylamine	1.59195	1.56687	1.49400	1.29186	1.17916	1.05687	AVRG		1.36345					16.19236	
17 Hexachloroethane	0.74099	0.76535	0.77314	0.67343	0.64715	0.57813	AVRG		0.69636					11.04371	
19 Nitrobenzene	0.65988	0.65403	0.63973	0.54853	0.50490	0.44663	AVRG		0.57562					15.48606	
20 Isophorone	1.11098	1.14511	1.10344	0.97023	0.90908	0.88280	AVRG		1.02028					11.13181	
21 2-Nitrophenol	++++	0.24886	0.24637	0.22458	0.22460	0.21329	AVRG		0.23154					6.65405	
22 2,4-Dimethylphenol	0.50772	0.52757	0.51559	0.46014	0.44074	0.39840	AVRG		0.47503					10.62825	
23 Bis(2-Chloroethoxy)methane	0.67291	0.68663	0.65801	0.57321	0.53956	0.49692	AVRG		0.60454					13.03705	
24 Benzoic acid	++++	0.34276	0.36662	0.37573	0.37573	0.38029	AVRG		0.36823					4.09463	
25 2,4-Dichlorophenol	0.32783	0.35629	0.34043	0.31200	0.29810	0.27866	AVRG		0.31888					8.91460	
26 1,2,4-Trichlorobenzene	0.36586	0.36618	0.35921	0.31270	0.30551	0.28354	AVRG		0.33217					10.83609	
28 Naphthalene	1.31477	1.29466	1.25628	1.06097	0.97126	0.83951	AVRG		1.12274					17.44536	
29 4-Chloroaniline	0.54015	0.55498	0.53142	0.49288	0.44493	0.40981	AVRG		0.49569					11.66857	
30 Hexachlorobutadiene	0.18447	0.18430	0.18511	0.15918	0.15760	0.14769	AVRG		0.16973					9.89534	
31 4-Chloro-3-methylphenol	++++	0.44037	0.42673	0.39008	0.37144	0.34905	AVRG		0.39553					9.58935	

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 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff

Compound	1	5	10	25	40	80	Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	b	m1 m2	
32 2-Methylnaphthalene	0.69238	0.71917	0.67443	0.61823	0.56622	0.51795	0.63140	12.38329	
33 Hexachlorocyclopentadiene	++++	0.26024	0.30241	0.30753	0.31898	0.33194	0.30422	8.90403	
34 2,4,6-Trichlorophenol	++++	0.41448	0.41972	0.38594	0.39390	0.39740	0.40229	3.54595	
35 2,4,5-Trichlorophenol	++++	0.41097	0.42598	0.40648	0.40847	0.41136	0.41265	1.86833	
37 2-Chloronaphthalene	1.44996	1.44357	1.40205	1.17633	1.07835	0.93714	1.24790	17.31060	
38 2-Nitroaniline	++++	0.59223	0.56766	0.53650	0.49470	0.46892	0.53200	9.53345	
39 Dimethylphthalate	1.55308	1.60141	1.56964	1.36939	1.33240	1.35090	1.46280	8.48512	
40 Acenaphthylene	2.35951	2.42134	2.37914	2.05093	1.94427	1.77881	2.15567	12.44332	
41 2,6-Dinitrotoluene	++++	0.36459	0.35597	0.31169	0.30580	0.30846	0.32930	8.66142	
43 3-Nitroaniline	++++	0.43303	0.41871	0.38621	0.37464	0.37764	0.39804	6.59322	
44 Acenaphthene	1.45695	1.45103	1.42675	1.24191	1.18244	1.08800	1.30785	12.10292	
45 2,4-Dinitrophenol	++++	16624	45298	113247	213704	392278	0.000e+00	0.99694	
46 Dibenzofuran	1.96726	2.00090	1.89643	1.73086	1.60919	1.54408	1.79145	10.70481	
47 4-Nitrophenol	++++	0.22115	0.22643	0.21594	0.21063	0.18853	0.21253	6.89363	
48 2,4-Dinitrotoluene	++++	0.45766	0.46240	0.41038	0.41234	0.42297	0.43315	5.78510	
49 Fluorene	1.59645	1.62022	1.58970	1.36488	1.28076	1.12865	1.43011	14.21807	
50 Diethylphthalate	1.56293	1.60618	1.59430	1.38359	1.35862	1.33257	1.47303	8.65844	
51 4-Chlorophenyl-phenylether	0.67478	0.67499	0.66090	0.55539	0.53861	0.49931	0.60233	12.85956	
52 4-Nitroaniline	++++	0.40220	0.39371	0.37811	0.36812	0.38668	0.38576	3.43867	
53 4,6-Dinitro-2-methylphenol	++++	0.13142	0.15176	0.14979	0.15662	0.14923	0.14776	6.49004	
54 N-Nitrosodiphenylamine	0.77724	0.80218	0.78071	0.67694	0.63836	0.56500	0.70674	13.45378	
56 4-Bromophenyl-phenylether	0.26201	0.27079	0.26755	0.23737	0.22929	0.21363	0.24677	9.47537	

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-APR-2009 17:00
 End Cal Date : 08-APR-2009 19:52
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff

Compound	Level										Coefficients		%RSD or R ²
	1	5	10	25	40	80	Curve	b	m1	m2			
57 Hexachlorobenzene	0.27062	0.27188	0.26925	0.23680	0.22971	0.21645	AVRG	0.24912		9.80177			
58 Pentachlorophenol	++++	0.13465	0.14737	0.14747	0.15426	0.15283	AVRG	0.14732		5.24817			
60 Phenanthrene	1.44180	1.47174	1.44650	1.24591	1.17565	1.05054	AVRG	1.30536		13.33552			
61 Anthracene	1.53883	1.49835	1.49194	1.29237	1.19742	1.04835	AVRG	1.34454		14.69650			
62 Carbazole	1.36568	1.36722	1.34135	1.18017	1.12571	1.00664	AVRG	1.23113		12.20438			
63 Di-n-butylphthalate	1.71966	1.81256	1.81011	1.55738	1.47368	1.27638	AVRG	1.60829		13.21151			
64 Fluoranthene	1.37930	1.44056	1.42046	1.23005	1.18368	1.08270	AVRG	1.28946		11.26699			
65 Pyrene	1.71222	1.81545	1.74190	1.54334	1.46828	1.34765	AVRG	1.60481		11.25940			
67 Butylbenzylphthalate	0.89980	0.93468	0.92774	0.84707	0.80367	0.75322	AVRG	0.86103		8.45261			
68 Benzo(a)anthracene	1.60042	1.57677	1.53479	1.33995	1.27916	1.20010	AVRG	1.42186		11.97194			
70 3,3'-Dichlorobenzidine	++++	0.58274	0.56129	0.51723	0.48410	0.44802	AVRG	0.51867		10.60785			
71 Chrysene	1.53549	1.53128	1.52175	1.33409	1.26936	1.21104	AVRG	1.40050		10.47123			
72 bis(2-Ethylhexyl)phthalate	0.66066	0.68916	0.69125	0.61768	0.59893	0.54651	AVRG	0.63403		8.97252			
73 Di-n-octylphthalate	1.25725	1.22053	1.20493	1.07365	1.03197	0.94282	AVRG	1.12186		11.09226			
74 Benzo(b)fluoranthene	1.50791	1.54129	1.58446	1.27216	1.30380	1.39424	AVRG	1.43398		9.05704			
75 Benzo(k)fluoranthene	1.69895	1.57942	1.45116	1.36404	1.22198	0.95249	AVRG	1.37801		19.32352			
76 Benzo(a)pyrene	1.45123	1.44825	1.39038	1.22779	1.17519	1.11435	AVRG	1.30120		11.30871			
78 Indeno(1,2,3-cd)pyrene	1.72953	1.76857	1.73259	1.56252	1.50060	1.41559	AVRG	1.61823		9.00059			
79 Dibenzo(a,h)anthracene	1.43791	1.48348	1.45515	1.29615	1.22423	1.11154	AVRG	1.33474		11.15208			
80 Benzo(g,h,i)perylene	1.50976	1.52684	1.52244	1.40406	1.34531	1.28727	AVRG	1.43261		7.15018			
90 N-Nitrosodimethylamine	++++	1.39146	1.37108	1.24329	1.22107	1.25547	AVRG	1.29647		6.07129			
91 Aniline	++++	3.42288	3.16989	2.92610	2.50880	2.36434	AVRG	2.87840		15.38621			

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-APR-2009 17:00
 End Cal Date : 08-APR-2009 19:52
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff

Compound	Level										Coefficients		%RSD or R ²
	1	5	10	25	40	80	Curve	b	ml	m2			
92 1,2-Diphenylhydrazine	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	<	
93 Benzidine	++++	0.80619	0.68249	0.77141	0.46430	0.38268	AVRG		0.62141		30.32565	<	
96 p-Cymene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	<	
97 Caffeine	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	<	
98 Retene	0.54446	0.57304	0.55827	0.51879	0.51217	0.48049	AVRG		0.53120		6.38254	<	
99 Perylene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	<	
100 3-beta-Coprostanol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	<	
101 Cholesterol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	<	
102 beta-Sitosterol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	<	
103 Pyridine	++++	2.52945	2.14386	2.01925	2.18745	2.18625	AVRG		2.21325		8.56767	<	
\$ 1 2-Fluorophenol	++++	1.71788	1.74616	1.60266	1.56913	1.53637	AVRG		1.63444		5.66868	<	
\$ 137 d8-1,4-Dioxane	++++	0.79395	0.80060	0.68107	0.72661	0.72564	AVRG		0.74557		6.80143	<	
\$ 2 Phenol-d5	2.40754	2.49332	2.38502	2.09746	1.93724	1.77407	AVRG		2.18244		13.31888	<	
\$ 5 2-Chlorophenol-d4	++++	1.47029	1.42538	1.28034	1.23463	1.13916	AVRG		1.30996		10.43563	<	
\$ 10 1,2-Dichlorobenzene-d4	1.02976	1.03895	1.01126	0.90002	0.84678	0.74321	AVRG		0.92833		12.84739	<	
\$ 18 Nitrobenzene-d5	++++	0.61944	0.60039	0.53752	0.50885	0.47456	AVRG		0.54815		11.12799	<	
36 2-Fluorobiphenyl	++++	1.67060	1.61820	1.43112	1.36644	1.30712	AVRG		1.47870		10.72419	<	
55 2,4,6-Tribromophenol	++++	0.17361	0.17975	0.16611	0.16584	0.17464	AVRG		0.17199		3.46855	<	
66 Terphenyl-d14	++++	1.09253	1.04343	0.95517	0.91575	0.86657	AVRG		0.97469		9.48055	<	
85 p-Cresol-d4	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	<	
86 Anthracene-d10	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	<	

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-APR-2009 17:00
 End Cal Date : 08-APR-2009 19:52
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff

Compound	Level					Level					Coefficients		%RSD or R^2
	1	5	10	25	40	80	Level 6	Curve	b	m1	m2		
\$ 87 Fluoranthene-d10	++++	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	
\$ 88 Dibenz(a,h)anthracene-d14	++++	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	
\$ 89 Diphenyl-d10	++++	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	
\$ 95 D10-1-methylnaphthalene	++++	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-APR-2009 17:00
 End Cal Date : 08-APR-2009 19:52
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt4.i/20090408.b/SW846.m
 Cal Date : 09-Apr-2009 09:19 jeff

Curve	Formula	Units
Averaged	Ant = Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response
Quad	Ant = b + m1*Rsp + m2*Rsp^2	Response

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Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090408.b/0010408.d
 Lab Smp Id: ABN 1
 Inj Date : 08-APR-2009 18:09
 Operator : LJR/VTS
 Smp Info : ABN 1
 Misc Info :
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090408.b/SW846.m
 Meth Date : 09-Apr-2009 09:50 jeff
 Cal Date : 08-APR-2009 17:34
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt4.i
 Quant Type: ISTD
 Cal File: 0800408.d
 Calibration Sample, Level: 1
 Compound Sublist: ICAL.sub

LJR
4/9/09

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112		6.398	6.405	(0.766)	17125	1.00000	0.9933	
\$ 2 Phenol-d5	99		7.897	7.932	(0.946)	25395	1.00000	1.103	
3 Phenol	94		7.914	7.956	(0.948)	30875	1.00000	1.135	
\$ 5 2-Chlorophenol-d4	132		8.044	8.067	(0.963)	14922	1.00000	1.080	
4 Bis(2-Chloroethyl) ether	93		8.008	8.032	(0.959)	23083	1.00000	1.137	
6 2-Chlorophenol	128		8.067	8.091	(0.966)	18043	1.00000	1.102	
7 1,3-Dichlorobenzene	146		8.285	8.303	(0.992)	19052	1.00000	1.084	
* 8 1,4-Dichlorobenzene-d4	152		8.349	8.361	(1.000)	210962	20.0000		
9 1,4-Dichlorobenzene	146		8.373	8.385	(1.003)	19088	1.00000	1.103	
\$ 10 1,2-Dichlorobenzene-d4	152		8.649	8.661	(1.036)	10862	1.00000	1.109	
12 1,2-Dichlorobenzene	146		8.666	8.684	(1.038)	18317	1.00000	1.124	
11 Benzyl alcohol	108		8.619	8.649	(1.032)	12203	1.00000	1.000(M)	
14 2,2'-oxybis(1-Chloropropane)	45		8.878	8.890	(1.063)	25575	1.00000	0.8617	
13 2-Methylphenol	108		8.849	8.872	(1.060)	17903	1.00000	1.062	
17 Hexachloroethane	117		9.154	9.166	(1.096)	7816	1.00000	1.064	
16 N-Nitroso-di-n-propylamine	70		9.084	9.137	(1.088)	16792	1.00000	1.168	
15 4-Methylphenol	108		9.078	9.107	(1.087)	19317	1.00000	1.111	
\$ 18 Nitrobenzene-d5	82		9.272	9.295	(0.893)	22500	1.00000	1.112	
19 Nitrobenzene	77		9.301	9.331	(0.895)	24360	1.00000	1.146	
20 Isophorone	82		9.677	9.719	(0.932)	41013	1.00000	1.089	
21 2-Nitrophenol	139		9.818	9.836	(0.945)	8540	1.00000	0.9991	
22 2,4-Dimethylphenol	107		9.912	9.942	(0.954)	18743	1.00000	1.069	
23 Bis(2-Chloroethoxy)methane	93		10.065	10.089	(0.969)	24841	1.00000	1.113	
24 Benzoic acid	105		10.024	10.318	(0.965)	19302	5.00000	1.420(M)	
25 2,4-Dichlorophenol	162		10.200	10.224	(0.982)	12102	1.00000	1.028	
26 1,2,4-Trichlorobenzene	180		10.329	10.347	(0.994)	13506	1.00000	1.101	
* 27 Naphthalene-d8	136		10.388	10.406	(1.000)	738318	20.0000		

Compounds	QUANT SIG			AMOUNTS		
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
28 Naphthalene	128	10.423	10.441 (1.003)	48536	1.00000	1.171
29 4-Chloroaniline	127	10.558	10.582 (1.016)	19940	1.00000	1.090
30 Hexachlorobutadiene	225	10.735	10.741 (1.033)	6810	1.00000	1.087
31 4-Chloro-3-methylphenol	107	11.363	11.381 (1.094)	14604	1.00000	1.000 (M)
32 2-Methylnaphthalene	141	11.540	11.558 (1.111)	25560	1.00000	1.097
33 Hexachlorocyclopentadiene	237	11.921	11.928 (0.899)	3129	1.00000	0.5570
34 2,4,6-Trichlorophenol	196	12.057	12.075 (0.909)	6668	1.00000	0.8976
35 2,4,5-Trichlorophenol	196	12.115	12.133 (0.914)	7401	1.00000	0.9713 (M)
\$ 36 2-Fluorobiphenyl	172	12.180	12.198 (0.918)	30320	1.00000	1.110
37 2-Chloronaphthalene	162	12.327	12.351 (0.930)	26774	1.00000	1.162
38 2-Nitroaniline	65	12.556	12.580 (0.947)	9816	1.00000	0.9992
39 Dimethylphthalate	163	12.920	12.950 (0.974)	28678	1.00000	1.062
40 Acenaphthylene	152	13.003	13.021 (0.980)	43569	1.00000	1.095
41 2,6-Dinitrotoluene	165	13.014	13.044 (0.981)	5692	1.00000	0.9361
* 42 Acenaphthene-d10	164	13.261	13.273 (1.000)	369306	20.0000	
43 3-Nitroaniline	138	13.232	13.267 (0.998)	7324	1.00000	0.9965
44 Acenaphthene	153	13.308	13.332 (1.004)	26903	1.00000	1.114
45 2,4-Dinitrophenol	184	13.402	13.438 (1.011)	692	5.00000	0.2365
46 Dibenzofuran	168	13.567	13.596 (1.023)	36326	1.00000	1.098
47 4-Nitrophenol	109	13.537	13.567 (1.021)	3279	1.00000	0.8355
48 2,4-Dinitrotoluene	165	13.649	13.679 (1.029)	7291	1.00000	0.9116
50 Diethylphthalate	149	14.072	14.102 (1.061)	28860	1.00000	1.061
49 Fluorene	166	14.131	14.149 (1.066)	29479	1.00000	1.116
51 4-Chlorophenyl-phenylether	204	14.148	14.166 (1.067)	12460	1.00000	1.120
52 4-Nitroaniline	138	14.225	14.290 (1.073)	6836	1.00000	0.9597
53 4,6-Dinitro-2-methylphenol	198	14.301	14.354 (0.914)	3472	5.00000	0.9149
54 N-Nitrosodiphenylamine	169	14.354	14.384 (0.917)	19961	1.00000	1.100
\$ 55 2,4,6-Tribromophenol	330	14.554	14.578 (1.097)	2689	1.00000	0.8467
56 4-Bromophenyl-phenylether	248	14.936	14.948 (0.955)	6729	1.00000	1.062
57 Hexachlorobenzene	284	15.159	15.177 (0.969)	6950	1.00000	1.086
58 Pentachlorophenol	266	15.458	15.482 (0.988)	2420	1.00000	0.6396
* 59 Phenanthrene-d10	188	15.646	15.659 (1.000)	513636	20.0000	
60 Phenanthrene	178	15.682	15.700 (1.002)	37028	1.00000	1.105
61 Anthracene	178	15.752	15.776 (1.007)	39520	1.00000	1.145
62 Carbazole	167	16.034	16.058 (1.025)	35073	1.00000	1.109
63 Di-n-butylphthalate	149	16.733	16.746 (1.069)	44164	1.00000	1.069
64 Fluoranthene	202	17.626	17.645 (1.127)	35423	1.00000	1.070
65 Pyrene	202	17.985	18.009 (0.900)	36313	1.00000	1.067
\$ 66 Terphenyl-d14	244	18.290	18.303 (0.916)	22505	1.00000	1.089
67 Butylbenzylphthalate	149	19.166	19.184 (0.959)	19083	1.00000	1.045
68 Benzo(a)anthracene	228	19.947	19.971 (0.999)	33942	1.00000	1.126
* 69 Chrysene-d12	240	19.977	20.001 (1.000)	424163	20.0000	
70 3,3'-Dichlorobenzidine	252	19.953	19.977 (0.999)	13066	1.00000	1.188
71 Chrysene	228	20.012	20.048 (1.002)	32565	1.00000	1.096
72 bis(2-Ethylhexyl)phthalate	149	20.153	20.165 (0.956)	26564	1.00000	1.042
* 134 Di-n-octylphthalate-d4	153	21.087	21.105 (1.000)	804169	20.0000	
73 Di-n-octylphthalate	149	21.099	21.117 (1.001)	50552	1.00000	1.121

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	====	==	=====	=====	=====	=====	=====
74 Benzo(b)fluoranthene	252	21.604	21.652	(0.975)	36681	1.00000	1.052 (H)
75 Benzo(k)fluoranthene	252	21.639	21.687	(0.977)	41328	1.00000	1.233
76 Benzo(a)pyrene	252	22.062	22.098	(0.996)	35302	1.00000	1.115
* 77 Perylene-d12	264	22.151	22.163	(1.000)	486513	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.772	23.849	(1.073)	42072	1.00000	1.069
79 Dibenzo(a,h)anthracene	278	23.796	23.878	(1.074)	34978	1.00000	1.077
80 Benzo(g,h,i)perylene	276	24.231	24.331	(1.094)	36726	1.00000	1.054
90 N-Nitrosodimethylamine	74	3.854	3.890	(0.462)	14253	1.00000	1.042
103 Pyridine	79	3.854	3.825	(0.462)	25651	1.00000	1.099 (M)
91 Aniline	93	7.903	7.921	(0.947)	36369	1.00000	1.198
105 1-methylnaphthalene	141	11.716	11.734	(1.128)	24651	1.00000	1.105
93 Benzidine	184	17.873	17.885	(0.895)	18893	1.00000	1.434
111 Azobenzene (1,2-DP-Hydrazine)	77	14.401	14.425	(1.086)	40957	1.00000	1.128
143 1,4-Dioxane	88	3.091	3.091	(0.370)	9646	1.00000	1.094
§ 137 d8-1,4-Dioxane	96	3.032	3.026	(0.363)	8256	1.00000	1.050
144 alpha-Terpineol	59	10.435	10.459	(1.005)	13697	1.00000	1.186
98 Retene	219	18.543	18.555	(0.928)	11547	1.00000	1.025
133 Butylatedhydroxytoluene	205	13.420	13.438	(1.012)	18125	1.00000	1.111
115 Tributyl Phosphate	99	14.430	14.472	(0.922)	41163	1.00000	1.140
116 Dibutyl Phenyl Phosphate	175	16.175	16.193	(1.034)	18646	1.00000	1.034
117 Butyl Diphenyl Phosphate	94	17.873	17.891	(0.895)	9830	1.00000	1.105
118 Triphenyl Phosphate	326	19.483	19.501	(0.975)	5618	1.00000	0.9969
123 Acetophenone	105	9.037	9.066	(1.082)	26077	1.00000	1.087
179 n-Decane	57	8.167	8.179	(0.978)	22597	1.00000	1.174
180 n-Octadecane	57	15.535	15.547	(0.993)	22187	1.00000	0.7889
168 Pentachlorobenzene	250	13.614	13.637	(1.027)	8788	1.00000	1.076
113 Diphenyl Oxide	170	12.509	12.521	(0.943)	17654	1.00000	1.097
112 Biphenyl	154	12.321	12.339	(0.929)	37266	1.00000	0.8335

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: 0010408.d
 Lab Smp Id: ABN 1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090408.b/SW846.m
 Misc Info:

Calibration Date: 08-APR-2009
 Calibration Time: 17:00

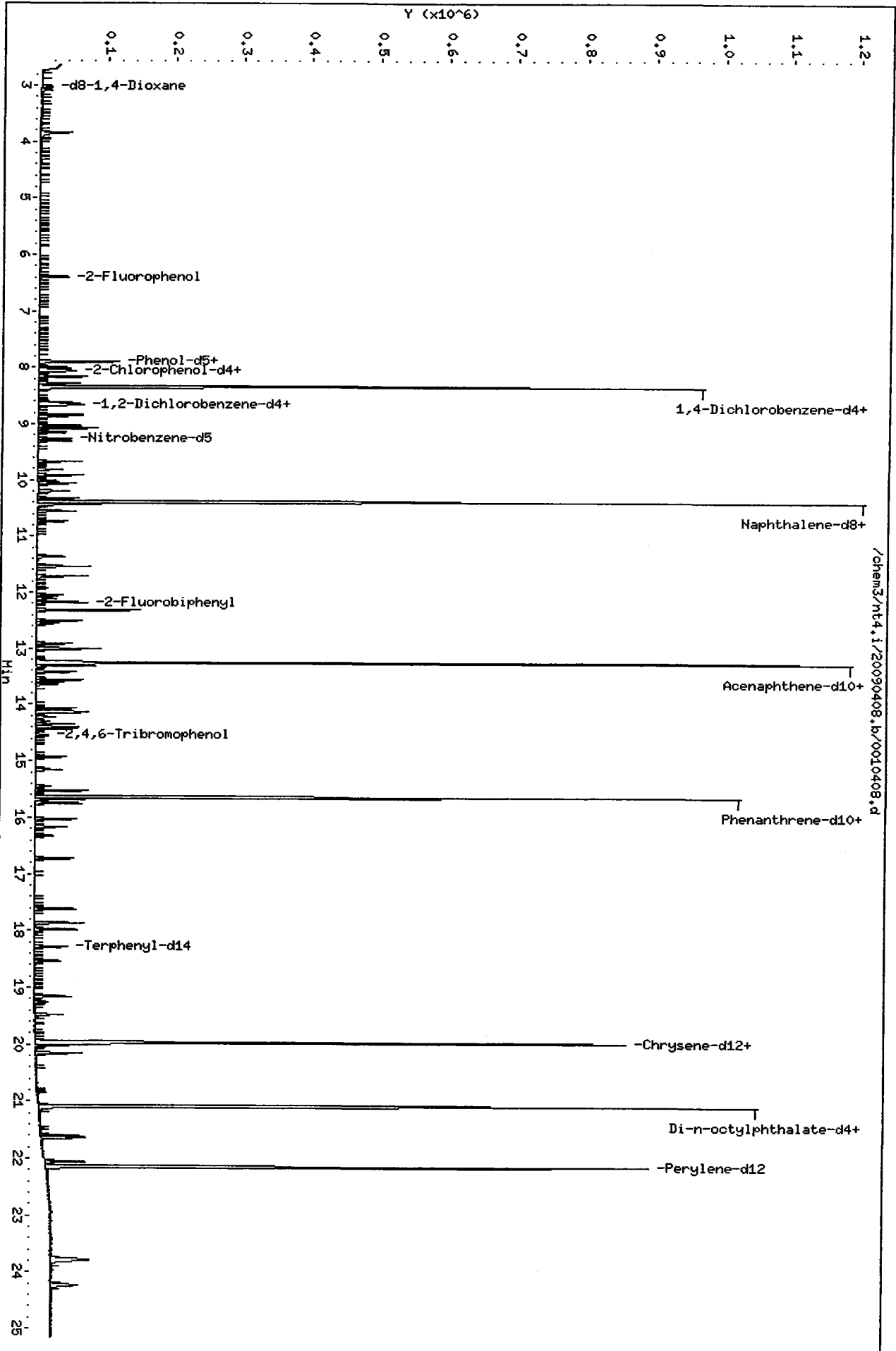
Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

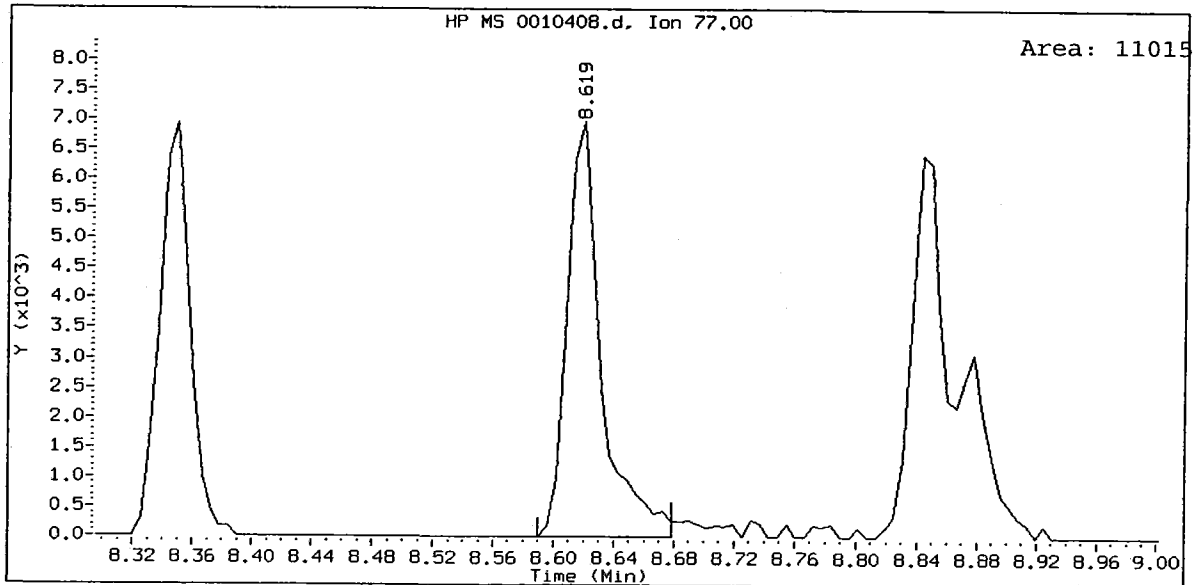
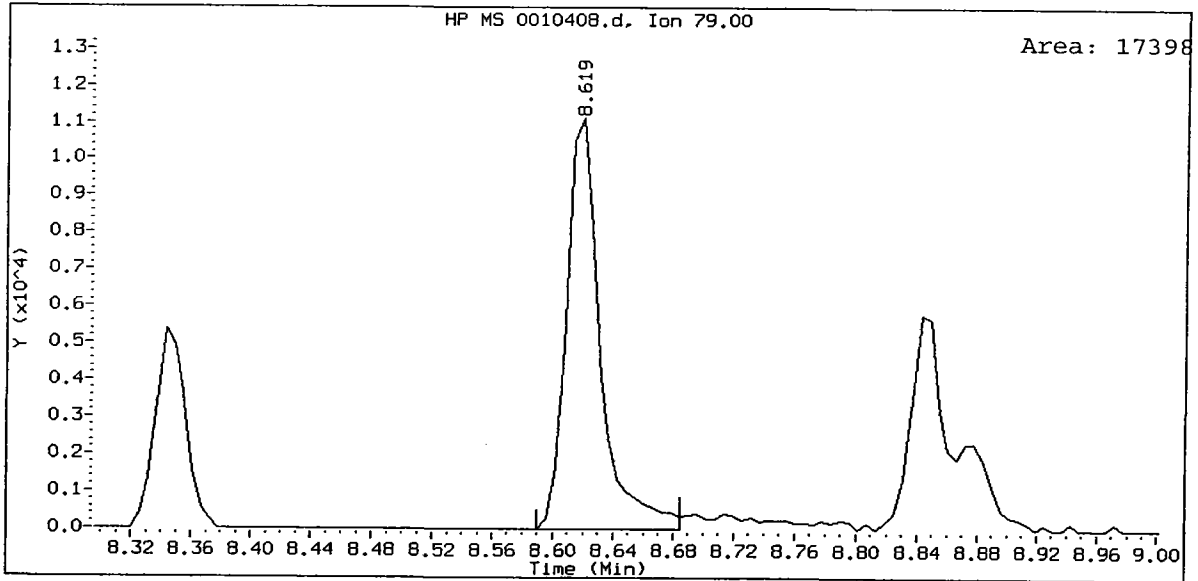
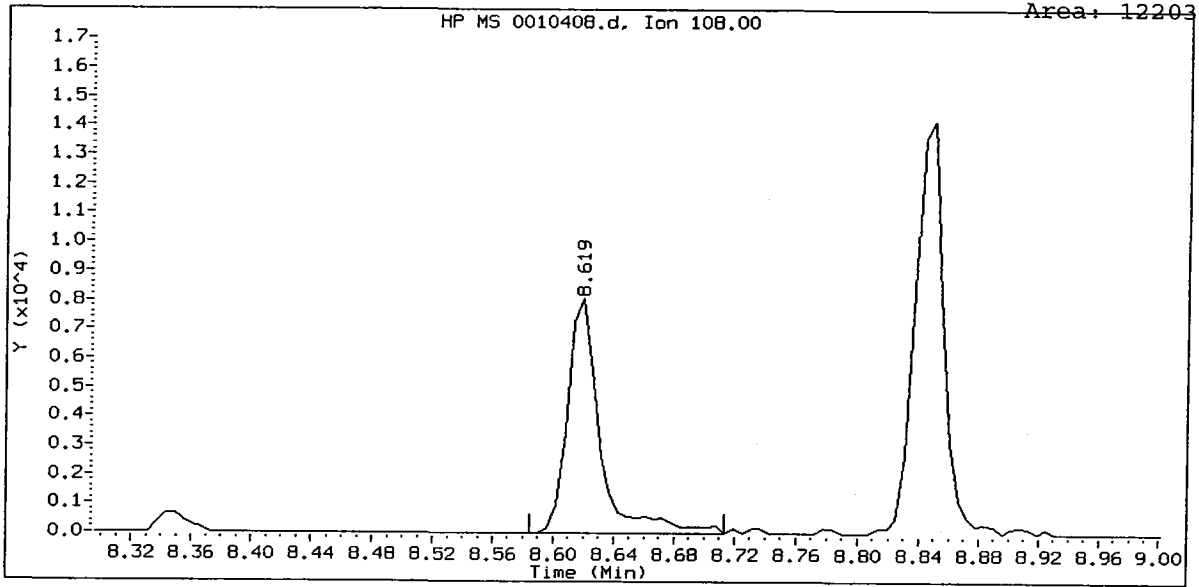
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	210962	22.33
27 Naphthalene-d8	608124	304062	1216248	738318	21.41
42 Acenaphthene-d10	305977	152988	611954	369306	20.70
59 Phenanthrene-d10	428646	214323	857292	513636	19.83
69 Chrysene-d12	348476	174238	696952	424163	21.72
134 Di-n-octylphthala	674761	337380	1349522	804169	19.18
77 Perylene-d12	426588	213294	853176	486513	14.05

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.35	7.85	8.85	8.35	-0.03
27 Naphthalene-d8	10.40	9.90	10.90	10.39	-0.08
42 Acenaphthene-d10	13.26	12.76	13.76	13.26	-0.02
59 Phenanthrene-d10	15.65	15.15	16.15	15.65	-0.02
69 Chrysene-d12	19.98	19.48	20.48	19.98	-0.04
134 Di-n-octylphthala	21.10	20.60	21.60	21.09	-0.04
77 Perylene-d12	22.15	21.65	22.65	22.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

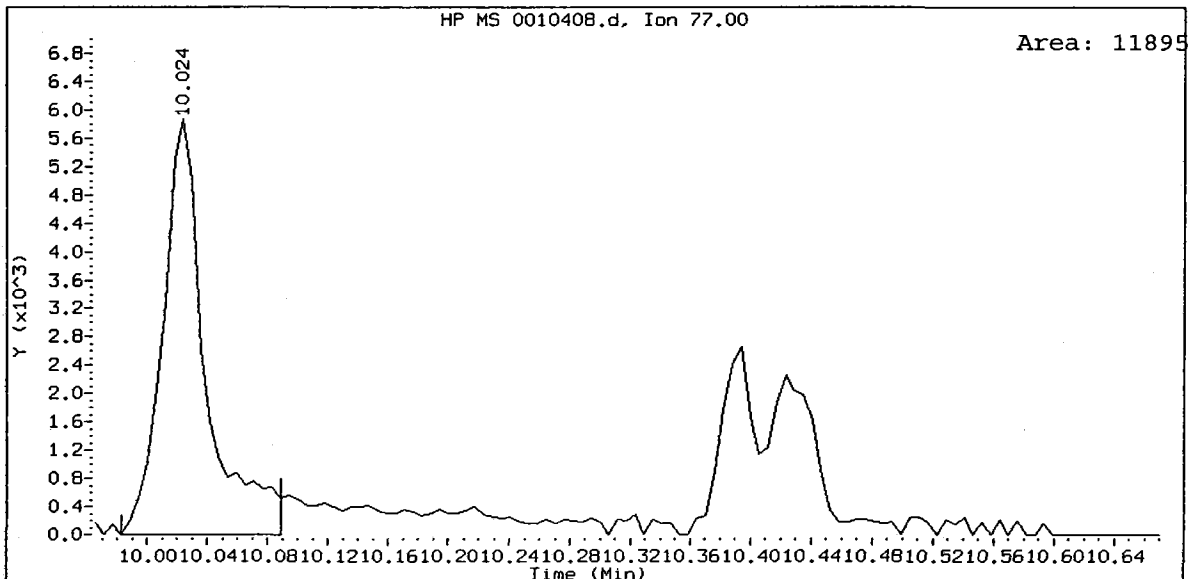
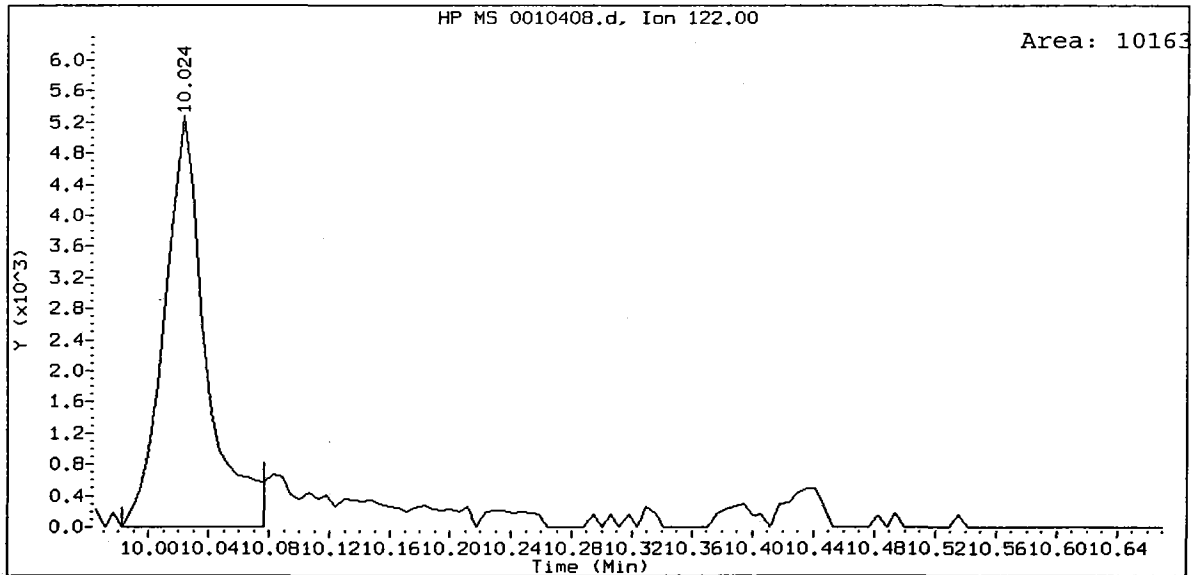
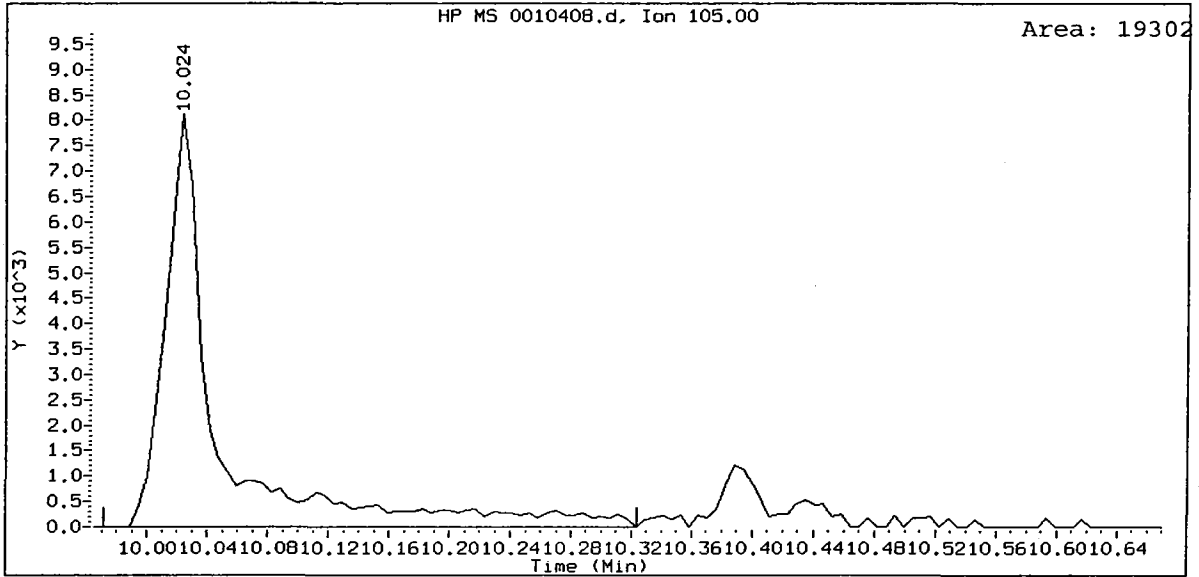


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Benzyl alcohol Amount: 1.00



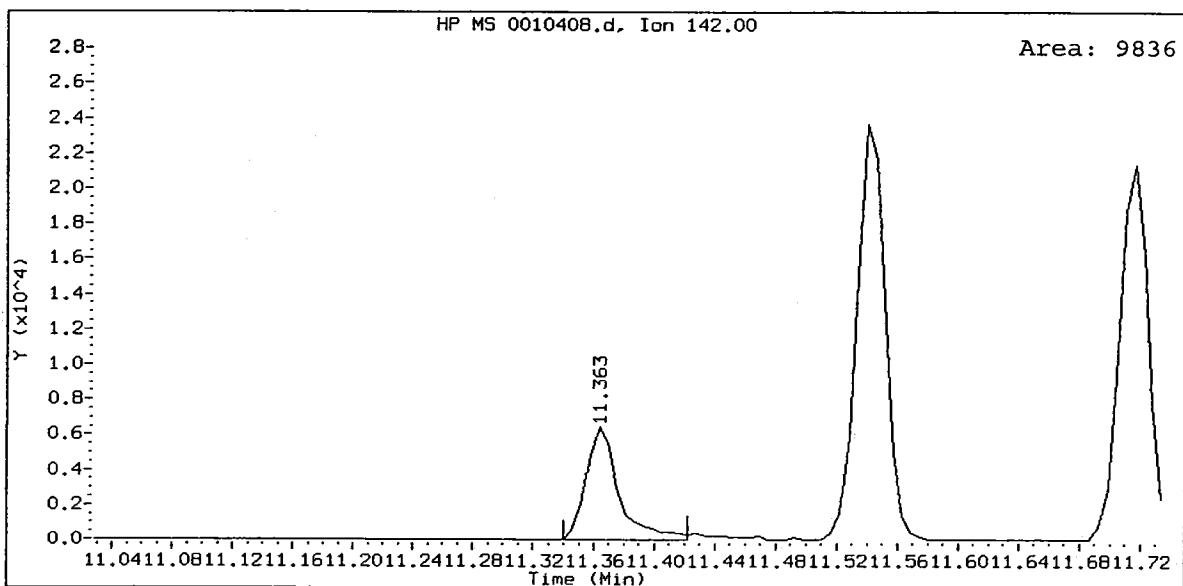
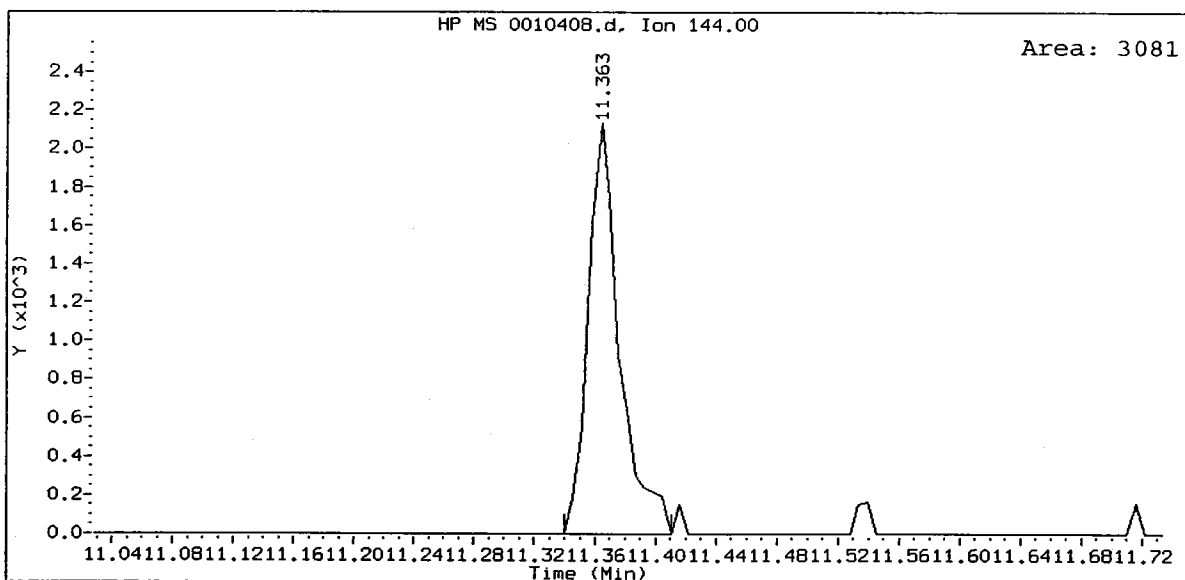
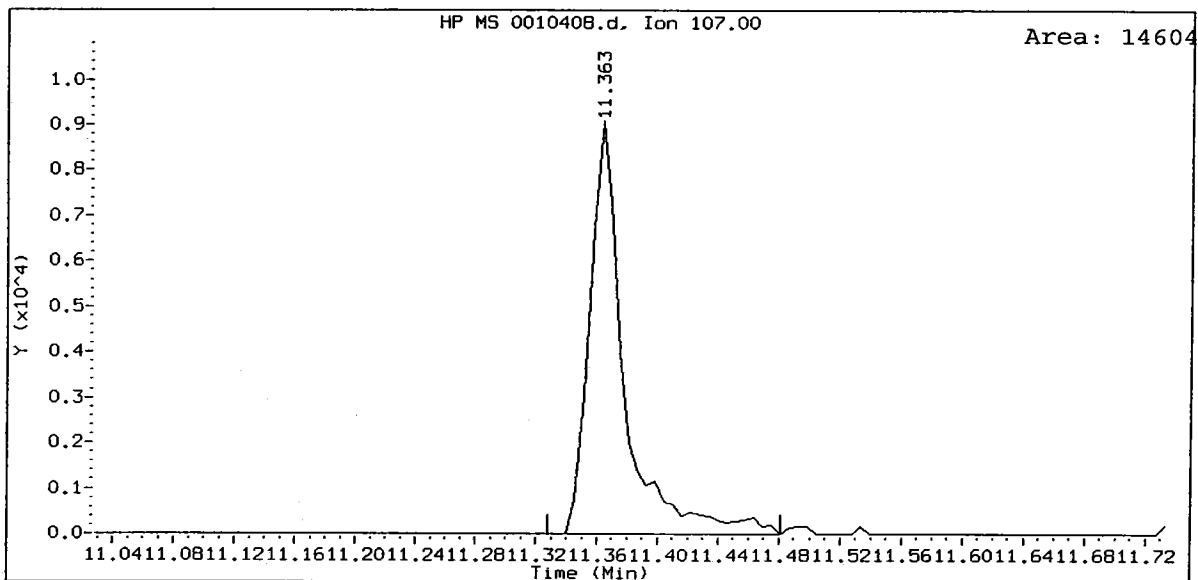
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Benzoic acid Amount: 1.42

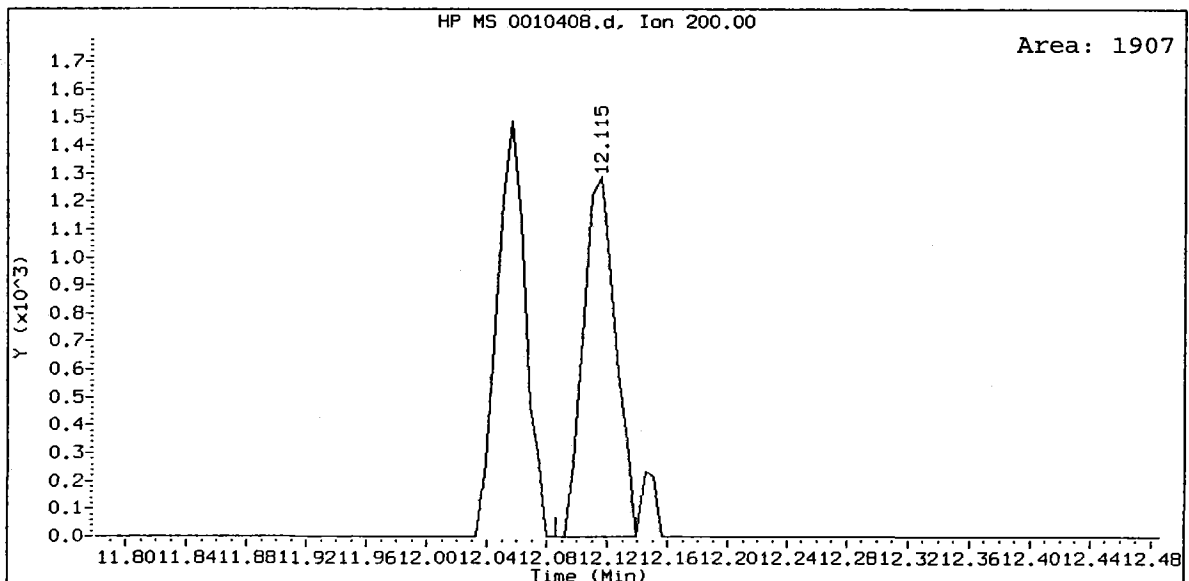
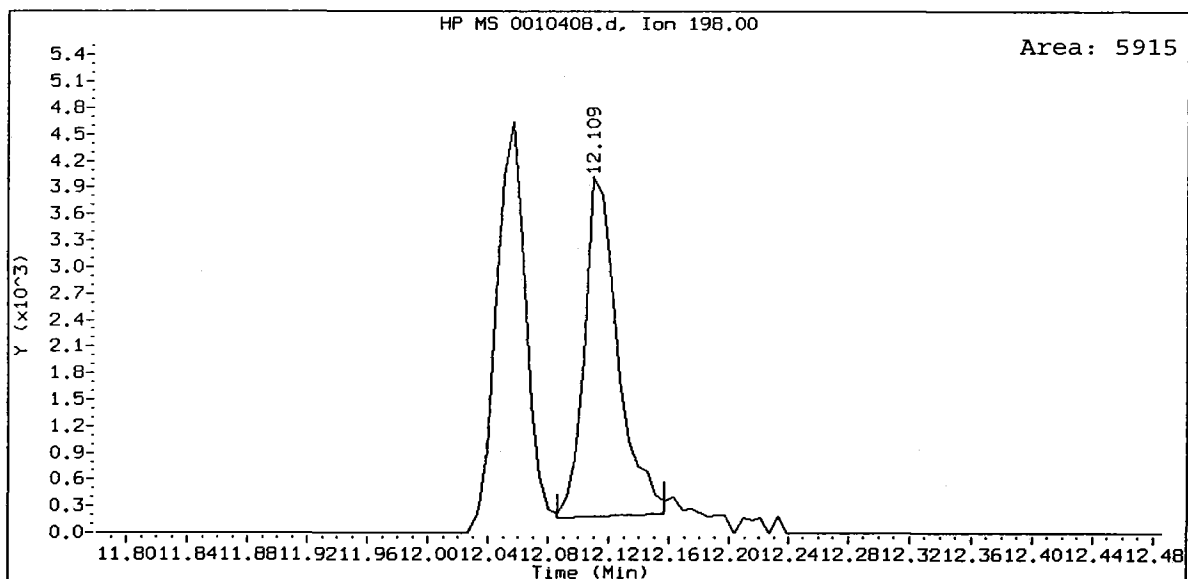
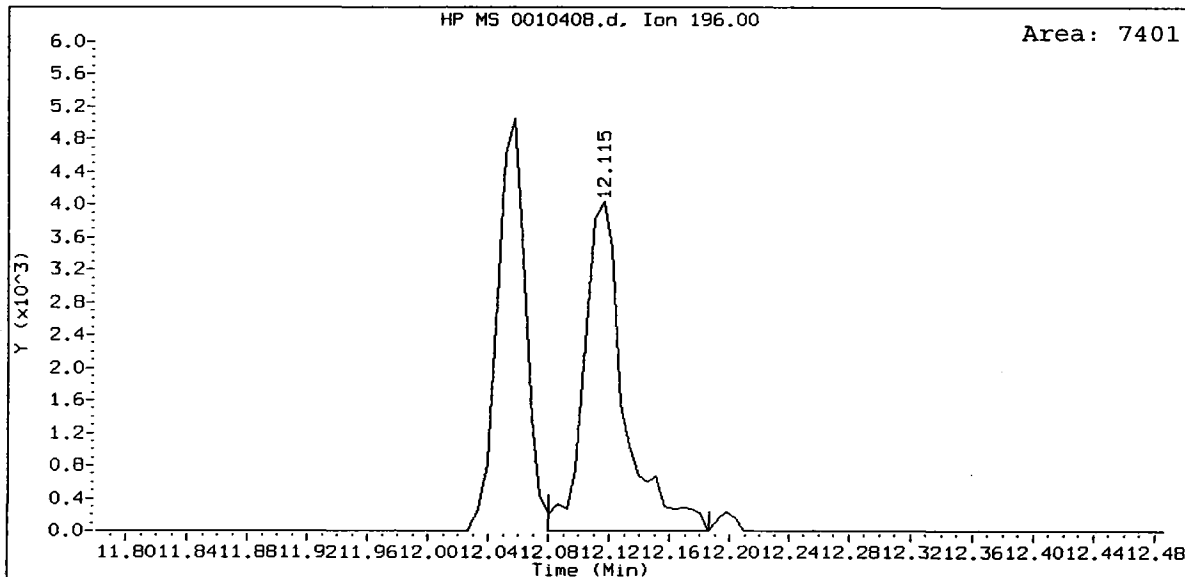


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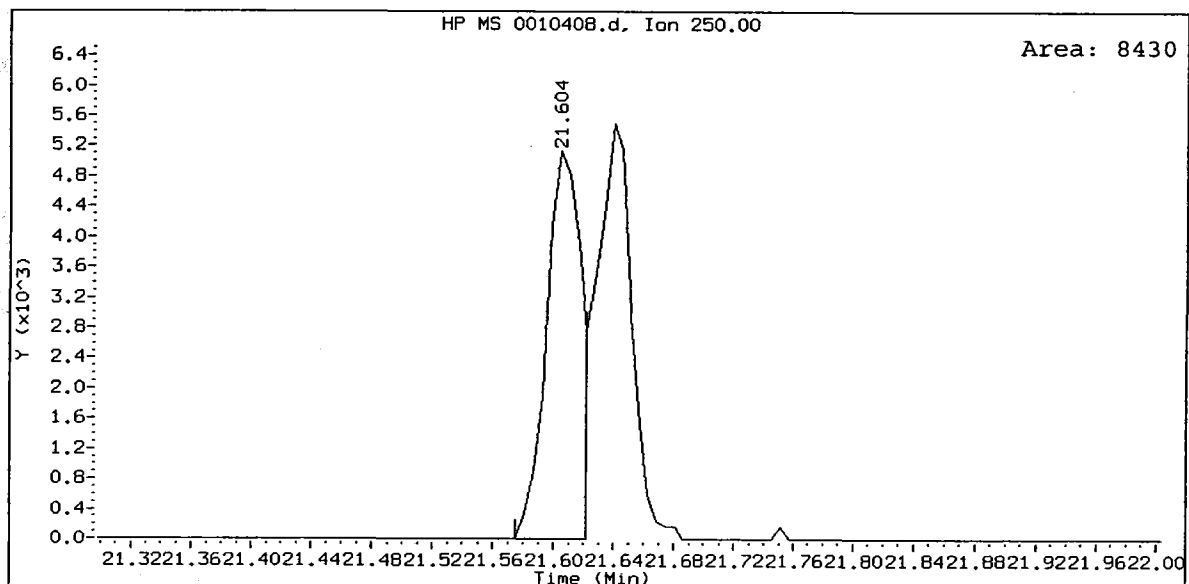
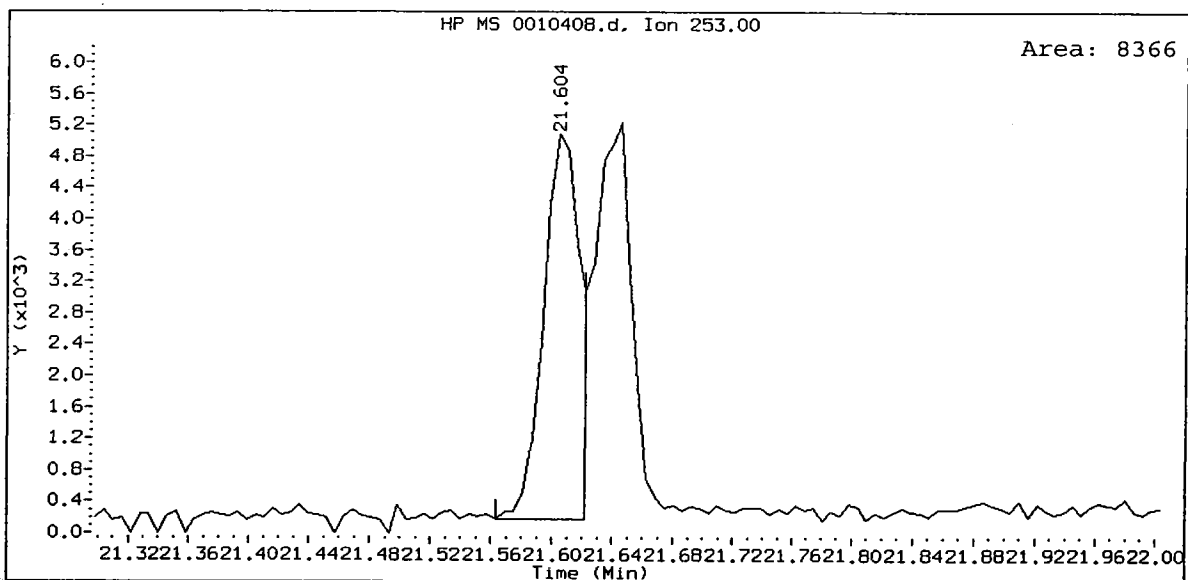
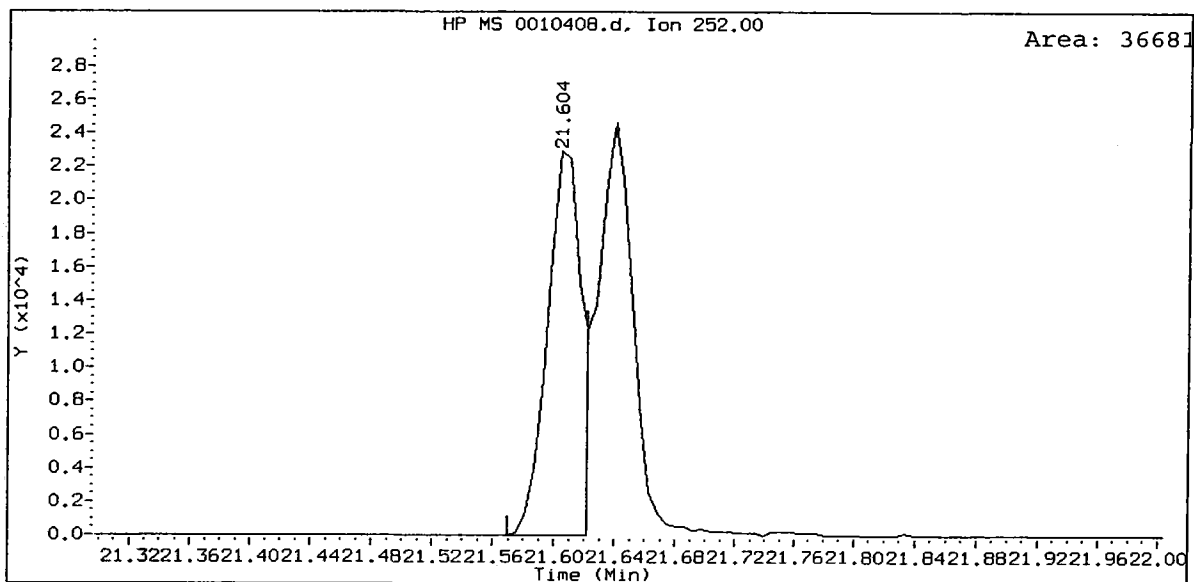
ABN 1, /chem3/nt4.i/20090408.b/0010408.d
4-Chloro-3-methylphenol Amount: 1.00



ABN 1, /chem3/nt4.i/20090408.b/0010408.d
2,4,5-Trichlorophenol Amount: 0.97

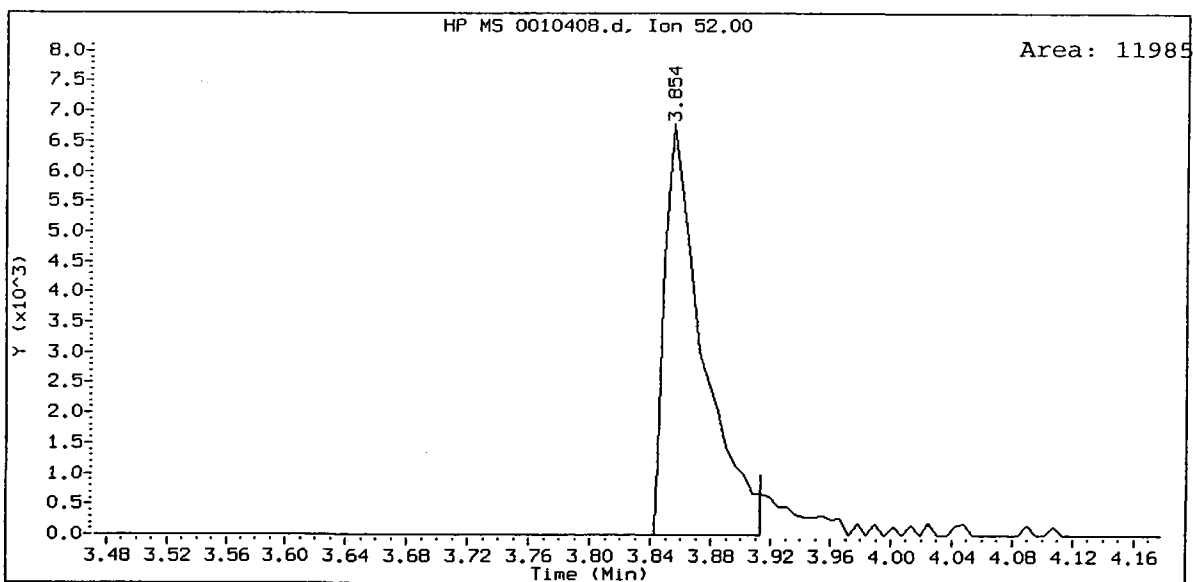
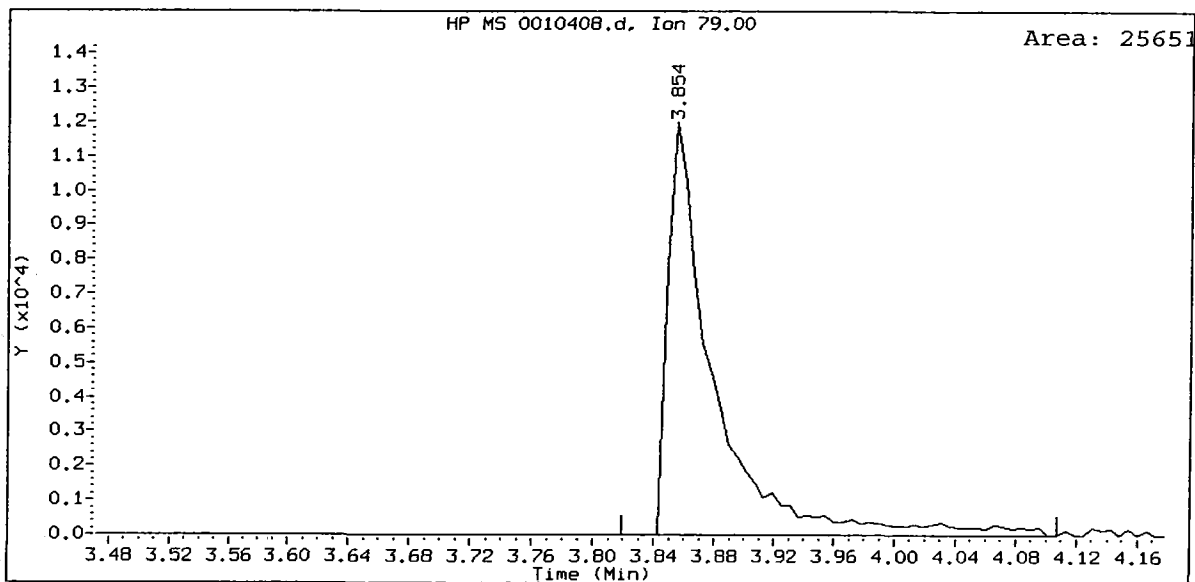


ABN 1, /chem3/nt4.i/20090408.b/0010408.d
Benzo(b)fluoranthene Amount: 1.05



0490:00179

ABN 1, /chem3/nt4.i/20090408.b/0010408.d
Pyridine Amount: 1.10



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090408.b/0050408.d
 Lab Smp Id: ABN 5
 Inj Date : 08-APR-2009 19:18
 Operator : LJR/VTS
 Smp Info : ABN 5
 Misc Info :
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090408.b/SW846.m
 Meth Date : 09-Apr-2009 09:50 jeff
 Cal Date : 08-APR-2009 17:34
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt4.i
 Quant Type: ISTD
 Cal File: 0800408.d
 Calibration Sample, Level: 2
 Compound Sublist: ICAL.sub

LJR
4/7/09

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
\$ 1 2-Fluorophenol	112	6.397	6.405 (0.766)	86447	5.00000	5.255	
\$ 2 Phenol-d5	99	7.896	7.932 (0.946)	125469	5.00000	5.712	
3 Phenol	94	7.919	7.956 (0.949)	148496	5.00000	5.722	
\$ 5 2-Chlorophenol-d4	132	8.048	8.067 (0.964)	73988	5.00000	5.612	
4 Bis(2-Chloroethyl)ether	93	8.007	8.032 (0.959)	106272	5.00000	5.485	
6 2-Chlorophenol	128	8.066	8.091 (0.966)	87791	5.00000	5.621	
7 1,3-Dichlorobenzene	146	8.283	8.303 (0.992)	91196	5.00000	5.437	
* 8 1,4-Dichlorobenzene-d4	152	8.348	8.361 (1.000)	201288	20.0000		
9 1,4-Dichlorobenzene	146	8.372	8.385 (1.003)	91624	5.00000	5.547	
\$ 10 1,2-Dichlorobenzene-d4	152	8.648	8.661 (1.036)	52282	5.00000	5.596	
12 1,2-Dichlorobenzene	146	8.665	8.684 (1.038)	87404	5.00000	5.620	
11 Benzyl alcohol	108	8.618	8.649 (1.032)	64842	5.00000	5.570(M)	
14 2,2'-oxybis(1-Chloropropane)	45	8.877	8.890 (1.063)	120036	5.00000	4.635	
13 2-Methylphenol	108	8.847	8.872 (1.060)	90520	5.00000	5.628	
17 Hexachloroethane	117	9.159	9.166 (1.097)	38514	5.00000	5.495	
16 N-Nitroso-di-n-propylamine	70	9.088	9.137 (1.089)	78848	5.00000	5.746	
15 4-Methylphenol	108	9.077	9.107 (1.087)	94463	5.00000	5.693	
\$ 18 Nitrobenzene-d5	82	9.271	9.295 (0.892)	108128	5.00000	5.650	
19 Nitrobenzene	77	9.300	9.331 (0.895)	114166	5.00000	5.681	
20 Isophorone	82	9.676	9.719 (0.931)	199889	5.00000	5.612	
21 2-Nitrophenol	139	9.817	9.836 (0.945)	43440	5.00000	5.374	
22 2,4-Dimethylphenol	107	9.917	9.942 (0.954)	92092	5.00000	5.553	
23 Bis(2-Chloroethoxy)methane	93	10.064	10.089 (0.968)	119857	5.00000	5.679	
24 Benzoic acid	105	10.075	10.318 (0.969)	119663	10.0000	9.308(M)	
25 2,4-Dichlorophenol	162	10.199	10.224 (0.981)	62193	5.00000	5.586	
26 1,2,4-Trichlorobenzene	180	10.328	10.347 (0.994)	63920	5.00000	5.512	
* 27 Naphthalene-d8	136	10.393	10.406 (1.000)	698234	20.0000		

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
28 Naphthalene	128	10.422	10.441	(1.003)	225994	5.00000	5.766
29 4-Chloroaniline	127	10.557	10.582	(1.016)	96876	5.00000	5.598
30 Hexachlorobutadiene	225	10.733	10.741	(1.033)	32171	5.00000	5.429
31 4-Chloro-3-methylphenol	107	11.362	11.381	(1.093)	76870	5.00000	5.567
32 2-Methylnaphthalene	141	11.544	11.558	(1.111)	125537	5.00000	5.695
33 Hexachlorocyclopentadiene	237	11.920	11.928	(0.899)	23114	5.00000	4.277
34 2,4,6-Trichlorophenol	196	12.055	12.075	(0.909)	36814	5.00000	5.152
35 2,4,5-Trichlorophenol	196	12.114	12.133	(0.914)	36502	5.00000	4.980
§ 36 2-Fluorobiphenyl	172	12.185	12.198	(0.919)	148381	5.00000	5.649
37 2-Chloronaphthalene	162	12.326	12.351	(0.930)	128217	5.00000	5.784
38 2-Nitroaniline	65	12.555	12.580	(0.947)	52601	5.00000	5.566
39 Dimethylphthalate	163	12.919	12.950	(0.974)	142236	5.00000	5.474
40 Acenaphthylene	152	13.007	13.021	(0.981)	215062	5.00000	5.616
41 2,6-Dinitrotoluene	165	13.019	13.044	(0.982)	32383	5.00000	5.536
* 42 Acenaphthene-d10	164	13.260	13.273	(1.000)	355277	20.0000	
43 3-Nitroaniline	138	13.231	13.267	(0.998)	38461	5.00000	5.439
44 Acenaphthene	153	13.307	13.332	(1.004)	128879	5.00000	5.547
45 2,4-Dinitrophenol	184	13.395	13.438	(1.010)	16624	10.0000	5.905
46 Dibenzofuran	168	13.571	13.596	(1.023)	177718	5.00000	5.585
47 4-Nitrophenol	109	13.530	13.567	(1.020)	19642	5.00000	5.203
48 2,4-Dinitrotoluene	165	13.648	13.679	(1.029)	40649	5.00000	5.283
50 Diethylphthalate	149	14.077	14.102	(1.062)	142660	5.00000	5.452
49 Fluorene	166	14.130	14.149	(1.066)	143907	5.00000	5.665
51 4-Chlorophenyl-phenylether	204	14.147	14.166	(1.067)	59952	5.00000	5.603
52 4-Nitroaniline	138	14.229	14.290	(1.073)	35723	5.00000	5.213
53 4,6-Dinitro-2-methylphenol	198	14.306	14.354	(0.914)	32461	10.0000	8.894
54 N-Nitrosodiphenylamine	169	14.353	14.384	(0.917)	99072	5.00000	5.675
§ 55 2,4,6-Tribromophenol	330	14.558	14.578	(1.098)	15420	5.00000	5.047
56 4-Bromophenyl-phenylether	248	14.934	14.948	(0.955)	33444	5.00000	5.487
57 Hexachlorobenzene	284	15.164	15.177	(0.969)	33578	5.00000	5.457
58 Pentachlorophenol	266	15.457	15.482	(0.988)	16630	5.00000	4.570
* 59 Phenanthrene-d10	188	15.645	15.659	(1.000)	494013	20.0000	
60 Phenanthrene	178	15.681	15.700	(1.002)	181765	5.00000	5.637
61 Anthracene	178	15.751	15.776	(1.007)	185051	5.00000	5.572
62 Carbazole	167	16.033	16.058	(1.025)	168856	5.00000	5.553
63 Di-n-butylphthalate	149	16.732	16.746	(1.069)	223857	5.00000	5.635
64 Fluoranthene	202	17.625	17.645	(1.127)	177914	5.00000	5.586
65 Pyrene	202	17.984	18.009	(0.900)	182783	5.00000	5.656
§ 66 Terphenyl-d14	244	18.289	18.303	(0.916)	109998	5.00000	5.604
67 Butylbenzylphthalate	149	19.165	19.184	(0.959)	94105	5.00000	5.428
68 Benzo(a)anthracene	228	19.946	19.971	(0.999)	158752	5.00000	5.545
* 69 Chrysene-d12	240	19.976	20.001	(1.000)	402728	20.0000	
70 3,3'-Dichlorobenzidine	252	19.952	19.977	(0.999)	58671	5.00000	5.618
71 Chrysene	228	20.017	20.048	(1.002)	154172	5.00000	5.467
72 bis(2-Ethylhexyl)phthalate	149	20.158	20.165	(0.956)	130883	5.00000	5.435
* 134 Di-n-octylphthalate-d4	153	21.092	21.105	(1.000)	759665	20.0000	
73 Di-n-octylphthalate	149	21.098	21.117	(1.000)	231798	5.00000	5.440

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ug/mL)	ON-COL (ug/mL)
74 Benzo(b)fluoranthene	252	21.609	21.652	(0.976)	181212	5.00000	5.374 (H)
75 Benzo(k)fluoranthene	252	21.644	21.687	(0.977)	185695	5.00000	5.731
76 Benzo(a)pyrene	252	22.061	22.098	(0.996)	170274	5.00000	5.565
* 77 Perylene-dl2	264	22.150	22.163	(1.000)	470288	20.00000	
78 Indeno(1,2,3-cd)pyrene	276	23.777	23.849	(1.073)	207934	5.00000	5.465
79 Dibenzo(a,h)anthracene	278	23.801	23.878	(1.075)	174416	5.00000	5.557
80 Benzo(g,h,i)perylene	276	24.241	24.331	(1.094)	179514	5.00000	5.329
90 N-Nitrosodimethylamine	74	3.847	3.890	(0.461)	70021	5.00000	5.366
103 Pyridine	79	3.836	3.825	(0.459)	127287	5.00000	5.714 (M)
91 Aniline	93	7.902	7.921	(0.946)	172246	5.00000	5.946
105 1-methylnaphthalene	141	11.715	11.734	(1.127)	118536	5.00000	5.621
93 Benzidine	184	17.872	17.885	(0.895)	81169	5.00000	6.487
111 Azobenzene (1,2-DP-Hydrazine)	77	14.400	14.425	(1.086)	200656	5.00000	5.746
143 1,4-Dioxane	88	3.084	3.091	(0.369)	43849	5.00000	5.212
§ 137 d8-1,4-Dioxane	96	3.025	3.026	(0.362)	39953	5.00000	5.324
144 alpha-Terpineol	59	10.440	10.459	(1.005)	64914	5.00000	5.941
98 Retene	219	18.536	18.555	(0.928)	57695	5.00000	5.394
133 Butylatedhydroxytoluene	205	13.419	13.438	(1.012)	86554	5.00000	5.517
115 Tributyl Phosphate	99	14.429	14.472	(0.922)	204340	5.00000	5.885
116 Dibutyl Phenyl Phosphate	175	16.174	16.193	(1.034)	95598	5.00000	5.510
117 Butyl Diphenyl Phosphate	94	17.872	17.891	(0.895)	48391	5.00000	5.728
118 Triphenyl Phosphate	326	19.482	19.501	(0.975)	28004	5.00000	5.234
123 Acetophenone	105	9.035	9.066	(1.082)	126685	5.00000	5.535
179 n-Decane	57	8.166	8.179	(0.978)	106830	5.00000	5.818
180 n-Octadecane	57	15.534	15.547	(0.993)	107731	5.00000	4.459
168 Pentachlorobenzene	250	13.612	13.637	(1.027)	43620	5.00000	5.549
113 Diphenyl Oxide	170	12.508	12.521	(0.943)	85798	5.00000	5.539
112 Biphenyl	154	12.320	12.339	(0.929)	183629	5.00000	4.659

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: 0050408.d
 Lab Smp Id: ABN 5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090408.b/SW846.m
 Misc Info:

Calibration Date: 08-APR-2009
 Calibration Time: 17:00

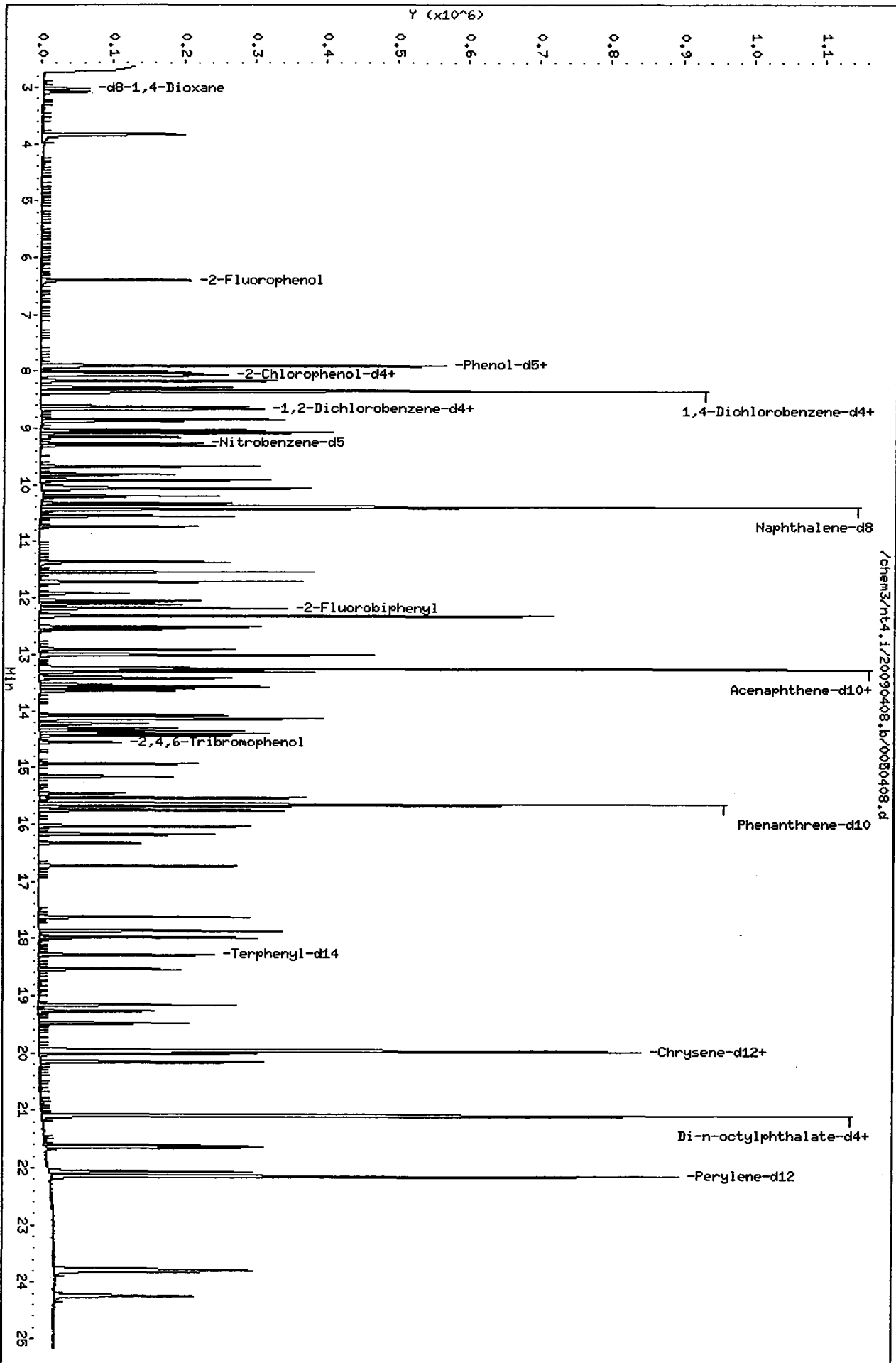
Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

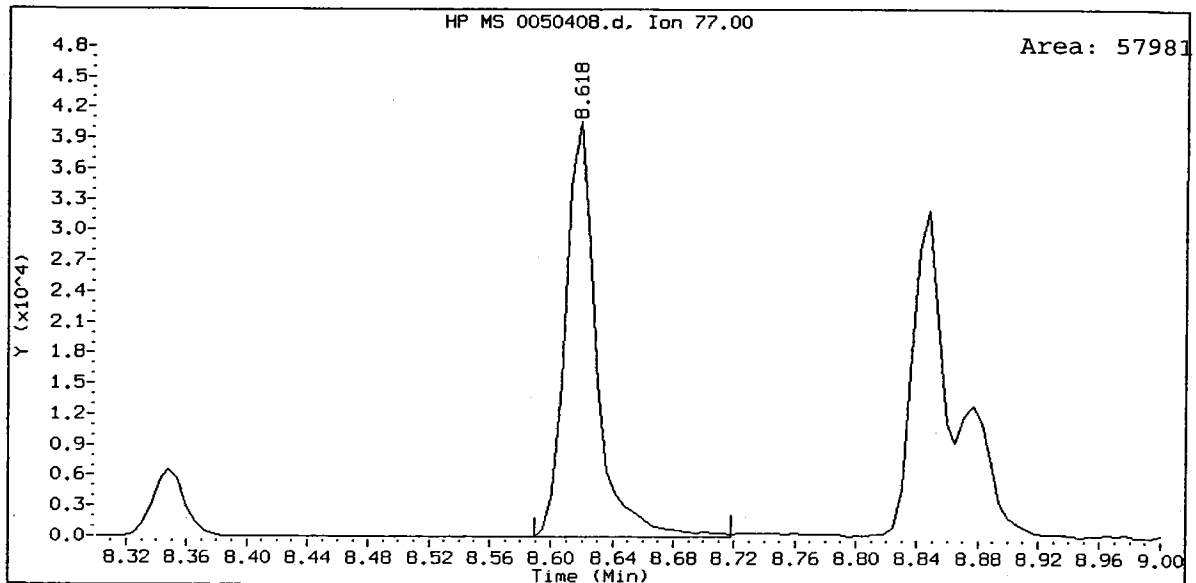
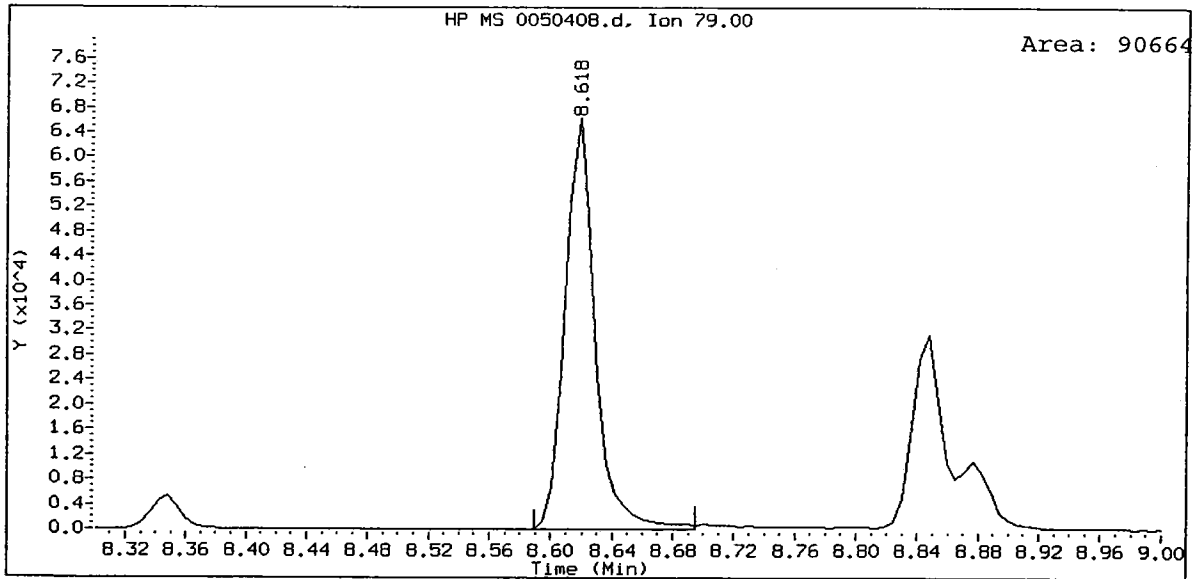
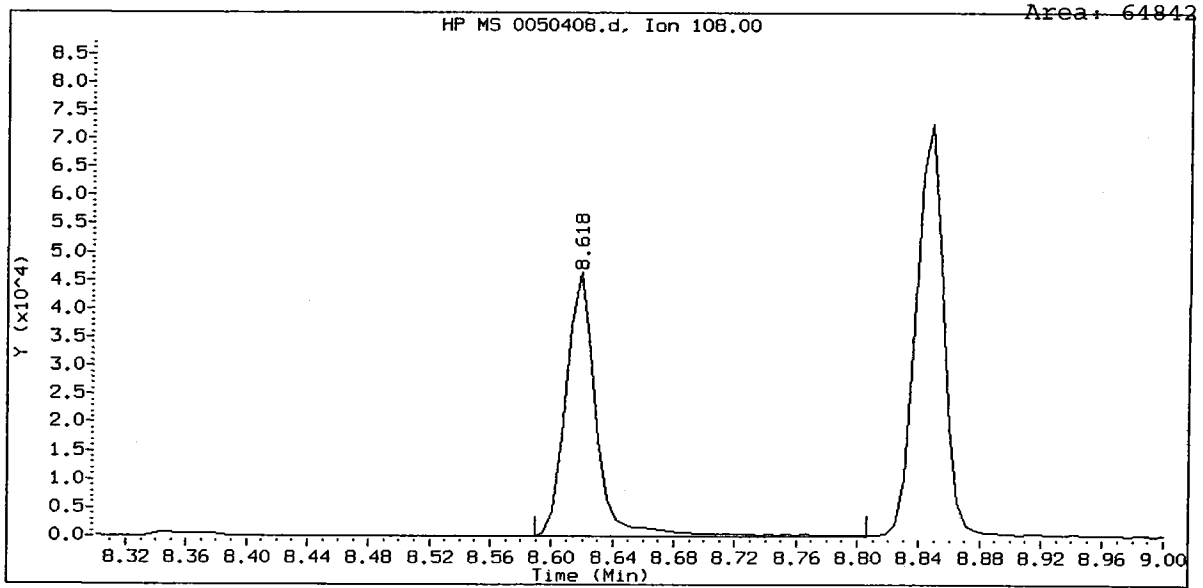
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	201288	16.72
27 Naphthalene-d8	608124	304062	1216248	698234	14.82
42 Acenaphthene-d10	305977	152988	611954	355277	16.11
59 Phenanthrene-d10	428646	214323	857292	494013	15.25
69 Chrysene-d12	348476	174238	696952	402728	15.57
134 Di-n-octylphthala	674761	337380	1349522	759665	12.58
77 Perylene-d12	426588	213294	853176	470288	10.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.35	7.85	8.85	8.35	-0.04
27 Naphthalene-d8	10.40	9.90	10.90	10.39	-0.03
42 Acenaphthene-d10	13.26	12.76	13.76	13.26	-0.03
59 Phenanthrene-d10	15.65	15.15	16.15	15.65	-0.02
69 Chrysene-d12	19.98	19.48	20.48	19.98	-0.05
134 Di-n-octylphthala	21.10	20.60	21.60	21.09	-0.02
77 Perylene-d12	22.15	21.65	22.65	22.15	-0.02

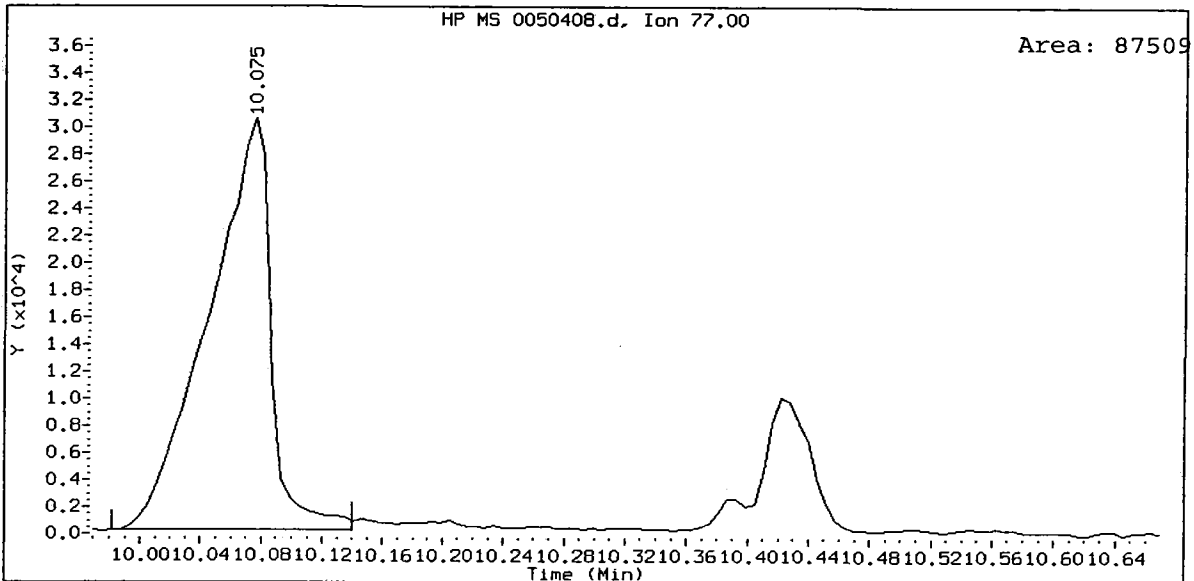
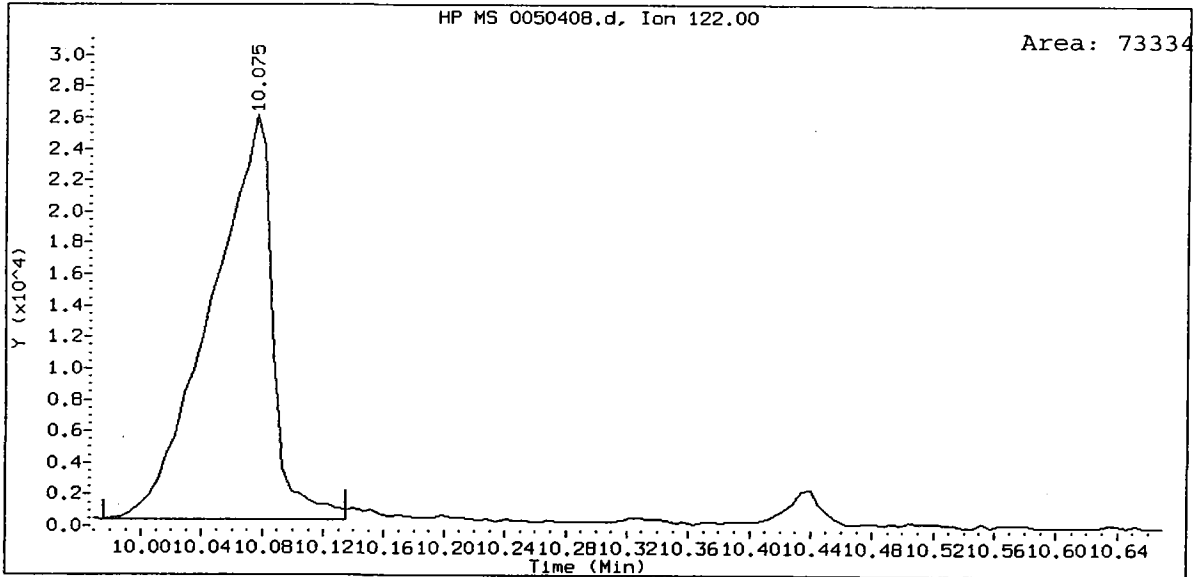
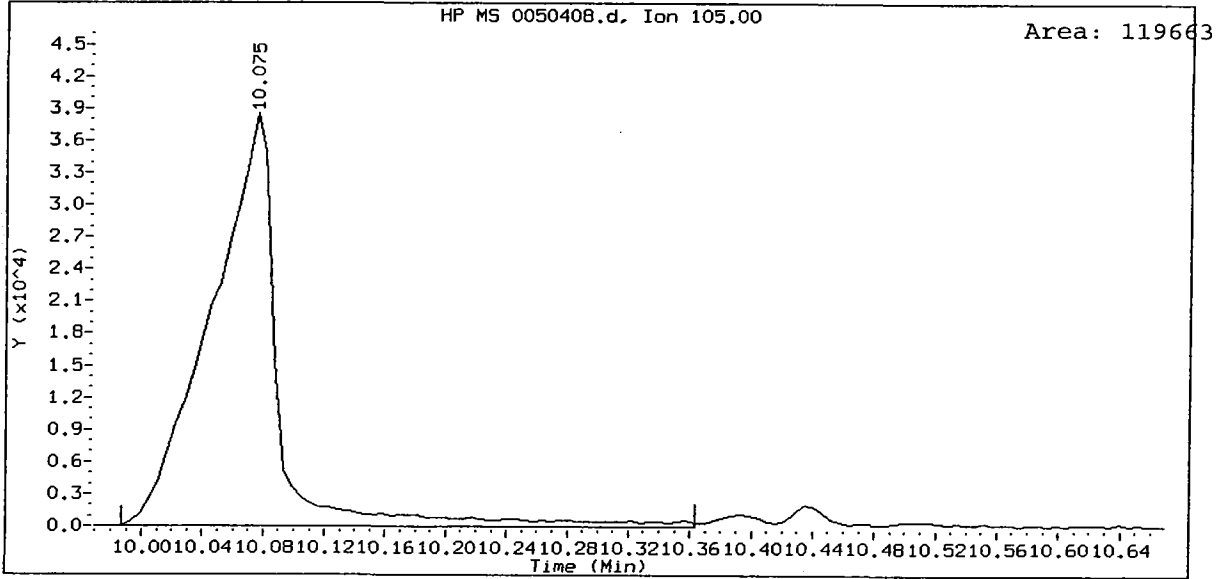
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 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



ABN 5, /chem3/nt4.i/20090408.b/0050408.d
Benzyl alcohol Amount: 5.57

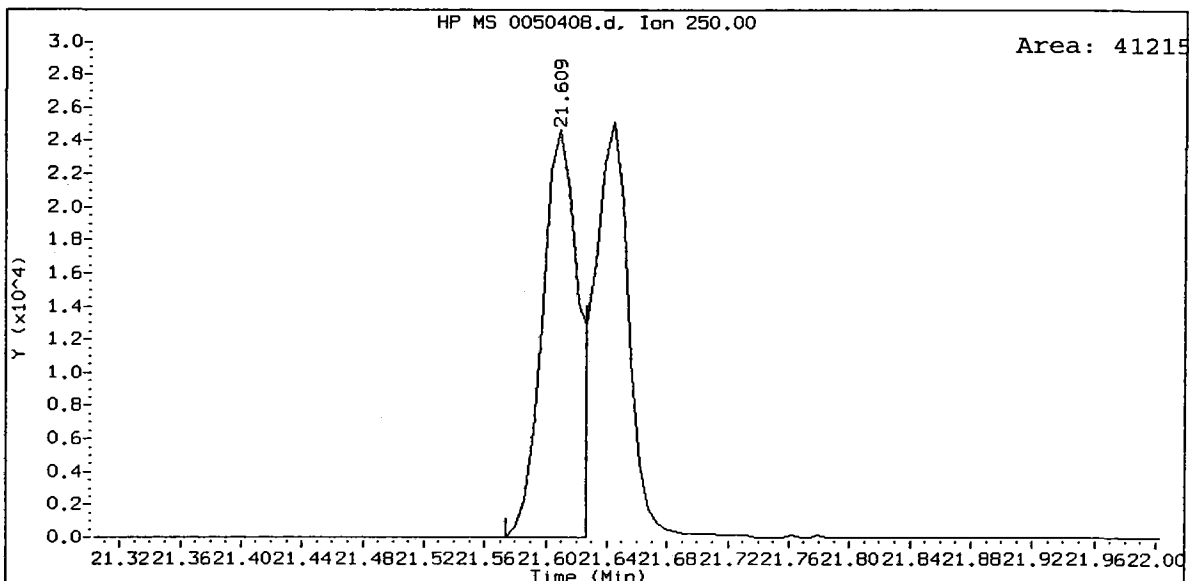
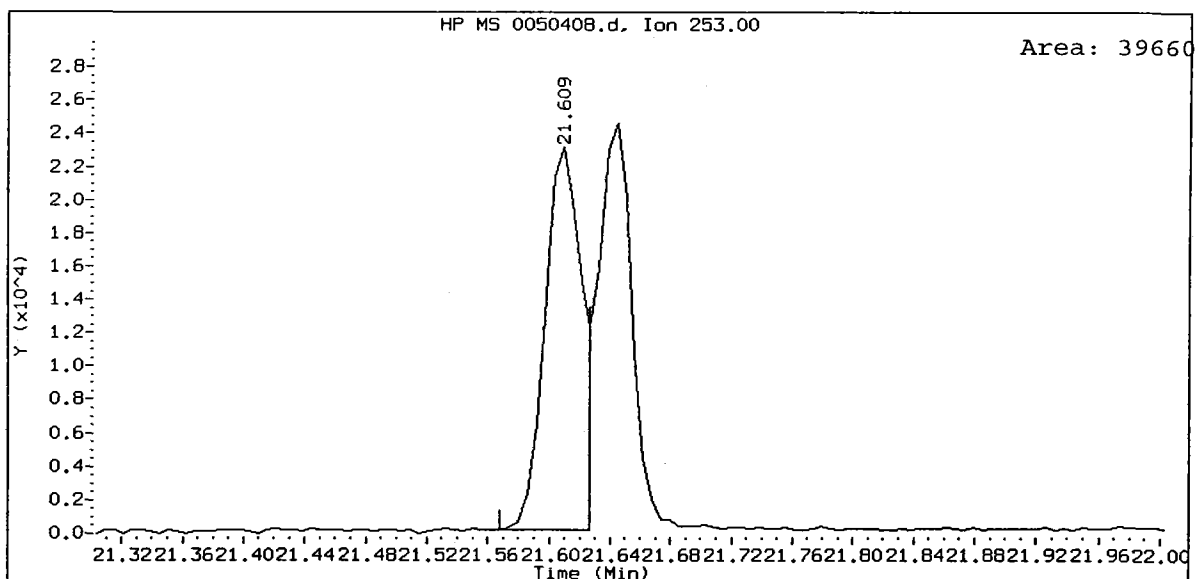
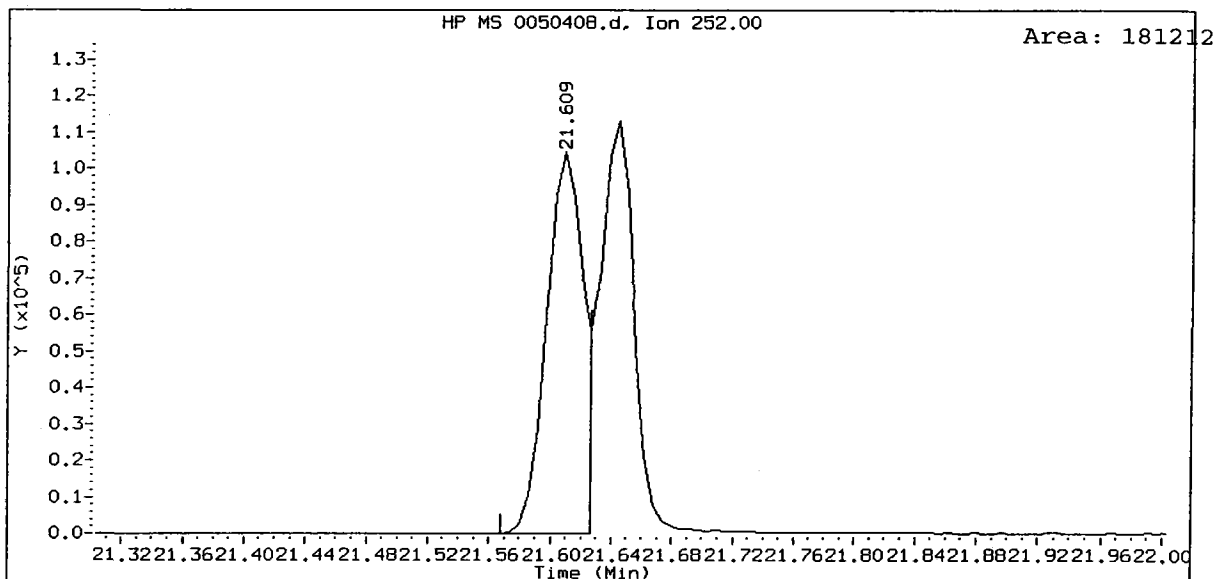


ABN 5, /chem3/nt4.i/20090408.b/0050408.d
Benzoic acid Amount: 9.31

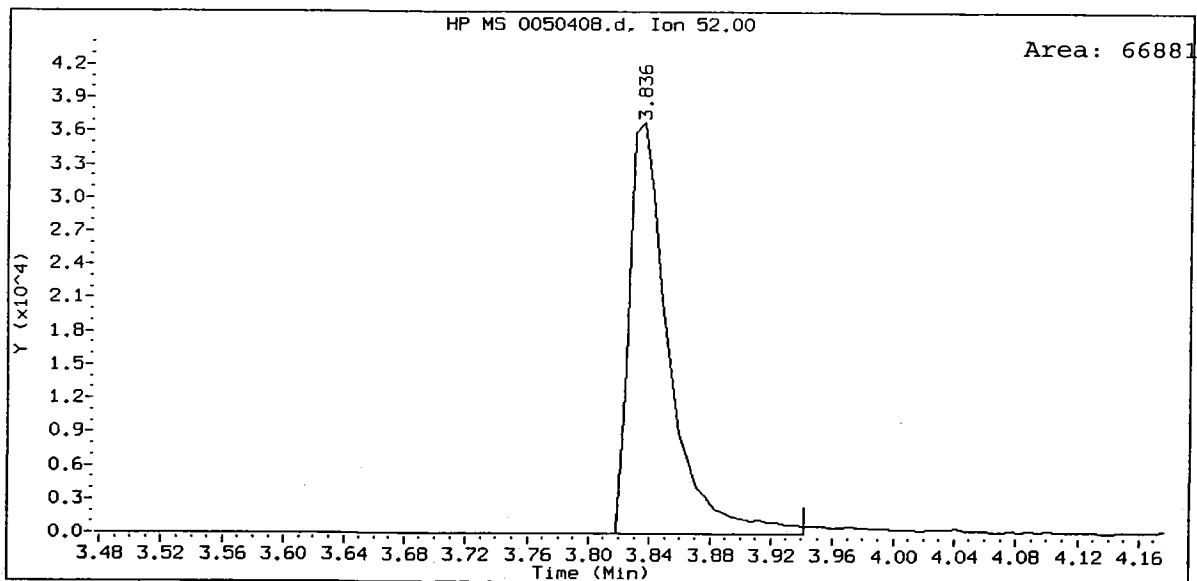
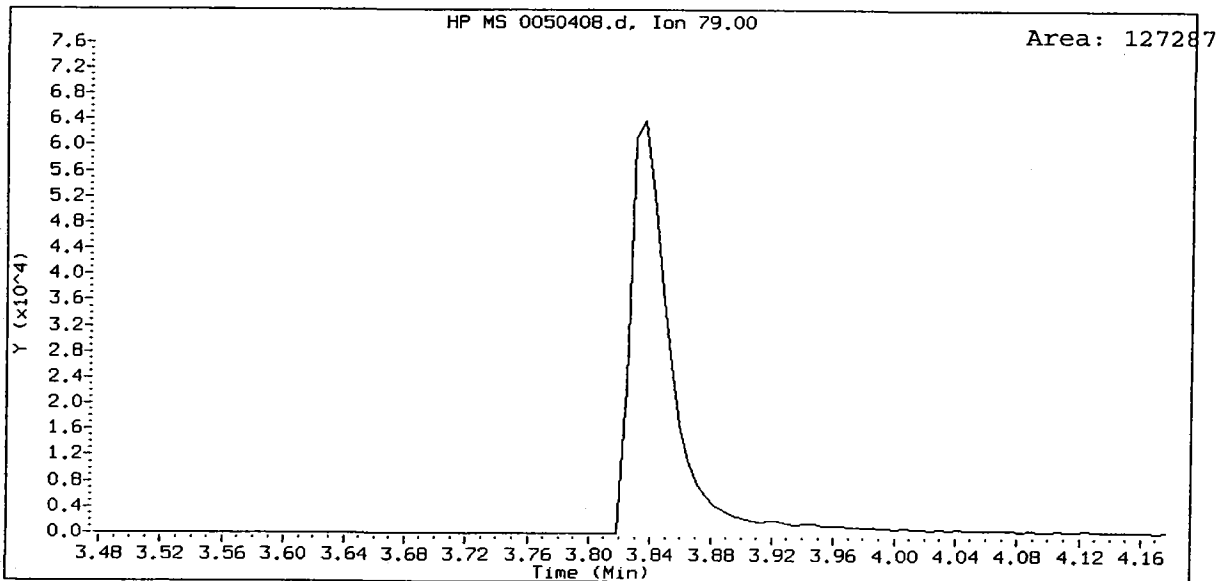


0W98:00187

ABN 5, /chem3/nt4.i/20090408.b/0050408.d
Benzo(b)fluoranthene Amount: 5.37



ABN 5, /chem3/nt4.i/20090408.b/0050408.d
Pyridine Amount: 5.71



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090408.b/0100408.d
 Lab Smp Id: ABN 10
 Inj Date : 08-APR-2009 19:52
 Operator : LJR/VTS
 Smp Info : ABN 10
 Misc Info :
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090408.b/SW846.m
 Meth Date : 09-Apr-2009 09:50 jeff
 Cal Date : 08-APR-2009 17:34
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt4.i
 Quant Type: ISTD
 Cal File: 0800408.d
 Calibration Sample, Level: 3
 Compound Sublist: ICAL.sub

LJR
4/7/09

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112	6.396	6.405	(0.766)	176606	10.0000	10.68
\$ 2 Phenol-d5	99	7.900	7.932	(0.946)	241220	10.0000	10.93
3 Phenol	94	7.917	7.956	(0.948)	283313	10.0000	10.86
\$ 5 2-Chlorophenol-d4	132	8.047	8.067	(0.963)	144162	10.0000	10.88
4 Bis(2-Chloroethyl)ether	93	8.011	8.032	(0.959)	211022	10.0000	10.84
6 2-Chlorophenol	128	8.070	8.091	(0.966)	168273	10.0000	10.72
7 1,3-Dichlorobenzene	146	8.288	8.303	(0.992)	183717	10.0000	10.90
* 8 1,4-Dichlorobenzene-d4	152	8.352	8.361	(1.000)	202279	20.0000	
9 1,4-Dichlorobenzene	146	8.376	8.385	(1.003)	179015	10.0000	10.78
\$ 10 1,2-Dichlorobenzene-d4	152	8.646	8.661	(1.035)	102278	10.0000	10.89
12 1,2-Dichlorobenzene	146	8.669	8.684	(1.038)	172700	10.0000	11.05
11 Benzyl alcohol	108	8.622	8.649	(1.032)	127008	10.0000	10.86(M)
14 2,2'-oxybis(1-Chloropropane)	45	8.875	8.890	(1.063)	229788	10.0000	9.687
13 2-Methylphenol	108	8.846	8.872	(1.059)	174769	10.0000	10.81
17 Hexachloroethane	117	9.157	9.166	(1.096)	78195	10.0000	11.10
16 N-Nitroso-di-n-propylamine	70	9.093	9.137	(1.089)	151102	10.0000	10.96
15 4-Methylphenol	108	9.075	9.107	(1.087)	181258	10.0000	10.87
\$ 18 Nitrobenzene-d5	82	9.275	9.295	(0.893)	210156	10.0000	10.95
19 Nitrobenzene	77	9.304	9.331	(0.895)	223927	10.0000	11.11
20 Isophorone	82	9.680	9.719	(0.932)	386243	10.0000	10.82
21 2-Nitrophenol	139	9.821	9.836	(0.945)	86238	10.0000	10.64
22 2,4-Dimethylphenol	107	9.915	9.942	(0.954)	180475	10.0000	10.85
23 Bis(2-Chloroethoxy)methane	93	10.068	10.089	(0.969)	230327	10.0000	10.88
24 Benzoic acid	105	10.121	10.318	(0.974)	256656	20.0000	19.91(M)
25 2,4-Dichlorophenol	162	10.203	10.224	(0.982)	119162	10.0000	10.68
26 1,2,4-Trichlorobenzene	180	10.332	10.347	(0.994)	125735	10.0000	10.81
* 27 Naphthalene-d8	136	10.391	10.406	(1.000)	700068	20.0000	

Compounds	QUANT		SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT	CAL-AMT (ug/mL)		ON-COL (ug/mL)	
=====	=====	==	=====	=====	=====	=====	=====	
28 Naphthalene	128	10.426	10.441	(1.003)	439740	10.0000	11.19	
29 4-Chloroaniline	127	10.561	10.582	(1.016)	186015	10.0000	10.72	
30 Hexachlorobutadiene	225	10.738	10.741	(1.033)	64795	10.0000	10.91	
31 4-Chloro-3-methylphenol	107	11.366	11.381	(1.094)	149370	10.0000	10.79	
32 2-Methylnaphthalene	141	11.543	11.558	(1.111)	236074	10.0000	10.68	
33 Hexachlorocyclopentadiene	237	11.925	11.928	(0.899)	53260	10.0000	9.940	
34 2,4,6-Trichlorophenol	196	12.054	12.075	(0.909)	73921	10.0000	10.43	
35 2,4,5-Trichlorophenol	196	12.113	12.133	(0.913)	75024	10.0000	10.32	
\$ 36 2-Fluorobiphenyl	172	12.183	12.198	(0.918)	284999	10.0000	10.94	
37 2-Chloronaphthalene	162	12.324	12.351	(0.929)	246931	10.0000	11.24	
38 2-Nitroaniline	65	12.553	12.580	(0.946)	99977	10.0000	10.67	
39 Dimethylphthalate	163	12.923	12.950	(0.974)	276447	10.0000	10.73	
40 Acenaphthylene	152	13.011	13.021	(0.981)	419017	10.0000	11.04	
41 2,6-Dinitrotoluene	165	13.023	13.044	(0.982)	62694	10.0000	10.81	
* 42 Acenaphthene-d10	164	13.264	13.273	(1.000)	352242	20.0000		
43 3-Nitroaniline	138	13.235	13.267	(0.998)	73743	10.0000	10.52	
44 Acenaphthene	153	13.311	13.332	(1.004)	251280	10.0000	10.91	
45 2,4-Dinitrophenol	184	13.399	13.438	(1.010)	45298	20.0000	16.23	
46 Dibenzofuran	168	13.576	13.596	(1.023)	334001	10.0000	10.59	
47 4-Nitrophenol	109	13.534	13.567	(1.020)	39879	10.0000	10.65	
48 2,4-Dinitrotoluene	165	13.652	13.679	(1.029)	81439	10.0000	10.68	
50 Diethylphthalate	149	14.081	14.102	(1.062)	280789	10.0000	10.82	
49 Fluorene	166	14.134	14.149	(1.066)	279980	10.0000	11.12	
51 4-Chlorophenyl-phenylether	204	14.151	14.166	(1.067)	116399	10.0000	10.97	
52 4-Nitroaniline	138	14.234	14.290	(1.073)	69340	10.0000	10.21	
53 4,6-Dinitro-2-methylphenol	198	14.310	14.354	(0.914)	74230	20.0000	20.54	
54 N-Nitrosodiphenylamine	169	14.357	14.384	(0.917)	190931	10.0000	11.05	
\$ 55 2,4,6-Tribromophenol	330	14.557	14.578	(1.097)	31658	10.0000	10.45	
56 4-Bromophenyl-phenylether	248	14.939	14.948	(0.955)	65433	10.0000	10.84	
57 Hexachlorobenzene	284	15.162	15.177	(0.969)	65848	10.0000	10.81	
58 Pentachlorophenol	266	15.456	15.482	(0.988)	36040	10.0000	10.00	
* 59 Phenanthrene-d10	188	15.650	15.659	(1.000)	489124	20.0000		
60 Phenanthrene	178	15.685	15.700	(1.002)	353759	10.0000	11.08	
61 Anthracene	178	15.755	15.776	(1.007)	364872	10.0000	11.10	
62 Carbazole	167	16.037	16.058	(1.025)	328043	10.0000	10.90	
63 Di-n-butylphthalate	149	16.737	16.746	(1.069)	442685	10.0000	11.25	
64 Fluoranthene	202	17.630	17.645	(1.127)	347391	10.0000	11.02	
65 Pyrene	202	17.988	18.009	(0.900)	358756	10.0000	10.85	
\$ 66 Terphenyl-d14	244	18.288	18.303	(0.915)	214902	10.0000	10.71	
67 Butylbenzylphthalate	149	19.163	19.184	(0.959)	191074	10.0000	10.77	
68 Benzo(a)anthracene	228	19.950	19.971	(0.999)	316100	10.0000	10.79	
* 69 Chrysene-d12	240	19.980	20.001	(1.000)	411914	20.0000		
70 3,3'-Dichlorobenzidine	252	19.950	19.977	(0.999)	115601	10.0000	10.82	
71 Chrysene	228	20.015	20.048	(1.002)	313416	10.0000	10.87	
72 bis(2-Ethylhexyl)phthalate	149	20.156	20.165	(0.956)	271462	10.0000	10.90	
* 134 Di-n-octylphthalate-d4	153	21.090	21.105	(1.000)	785424	20.0000		
73 Di-n-octylphthalate	149	21.102	21.117	(1.001)	473190	10.0000	10.74	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
74 Benzo(b)fluoranthene	252	21.613	21.652	(0.976)	387786	10.0000	11.05(H)
75 Benzo(k)fluoranthene	252	21.648	21.687	(0.977)	355162	10.0000	10.53
76 Benzo(a)pyrene	252	22.066	22.098	(0.996)	340286	10.0000	10.69
* 77 Perylene-d12	264	22.148	22.163	(1.000)	489487	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.781	23.849	(1.074)	424040	10.0000	10.71
79 Dibenzo(a,h)anthracene	278	23.805	23.878	(1.075)	356138	10.0000	10.90
80 Benzo(g,h,i)perylene	276	24.245	24.331	(1.095)	372607	10.0000	10.63
90 N-Nitrosodimethylamine	74	3.857	3.890	(0.462)	138670	10.0000	10.58
103 Pyridine	79	3.828	3.825	(0.458)	216829	10.0000	9.686
91 Aniline	93	7.900	7.921	(0.946)	320601	10.0000	11.01
105 1-methylnaphthalene	141	11.719	11.734	(1.128)	232354	10.0000	10.99
93 Benzidine	184	17.870	17.885	(0.894)	140564	10.0000	10.98
111 Azobenzene (1,2-DP-Hydrazine)	77	14.404	14.425	(1.086)	387825	10.0000	11.20
143 1,4-Dioxane	88	3.088	3.091	(0.370)	88549	10.0000	10.47
\$ 137 d8-1,4-Dioxane	96	3.029	3.026	(0.363)	80972	10.0000	10.74
144 alpha-Terpineol	59	10.438	10.459	(1.005)	121648	10.0000	11.11
98 Retene	219	18.540	18.555	(0.928)	114980	10.0000	10.51
133 Butylatedhydroxytoluene	205	13.423	13.438	(1.012)	163989	10.0000	10.54
115 Tributyl Phosphate	99	14.433	14.472	(0.922)	386942	10.0000	11.26
116 Dibutyl Phenyl Phosphate	175	16.178	16.193	(1.034)	187858	10.0000	10.94
117 Butyl Diphenyl Phosphate	94	17.870	17.891	(0.894)	94901	10.0000	10.98
118 Triphenyl Phosphate	326	19.486	19.501	(0.975)	57682	10.0000	10.54
123 Acetophenone	105	9.040	9.066	(1.082)	250269	10.0000	10.88
179 n-Decane	57	8.170	8.179	(0.978)	200942	10.0000	10.89
180 n-Octadecane	57	15.532	15.547	(0.992)	200732	10.0000	9.379
168 Pentachlorobenzene	250	13.617	13.637	(1.027)	83312	10.0000	10.69
113 Diphenyl Oxide	170	12.512	12.521	(0.943)	163578	10.0000	10.65
112 Biphenyl	154	12.324	12.339	(0.929)	341849	10.0000	9.546

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: 0100408.d
 Lab Smp Id: ABN 10
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090408.b/SW846.m
 Misc Info:

Calibration Date: 08-APR-2009
 Calibration Time: 17:00

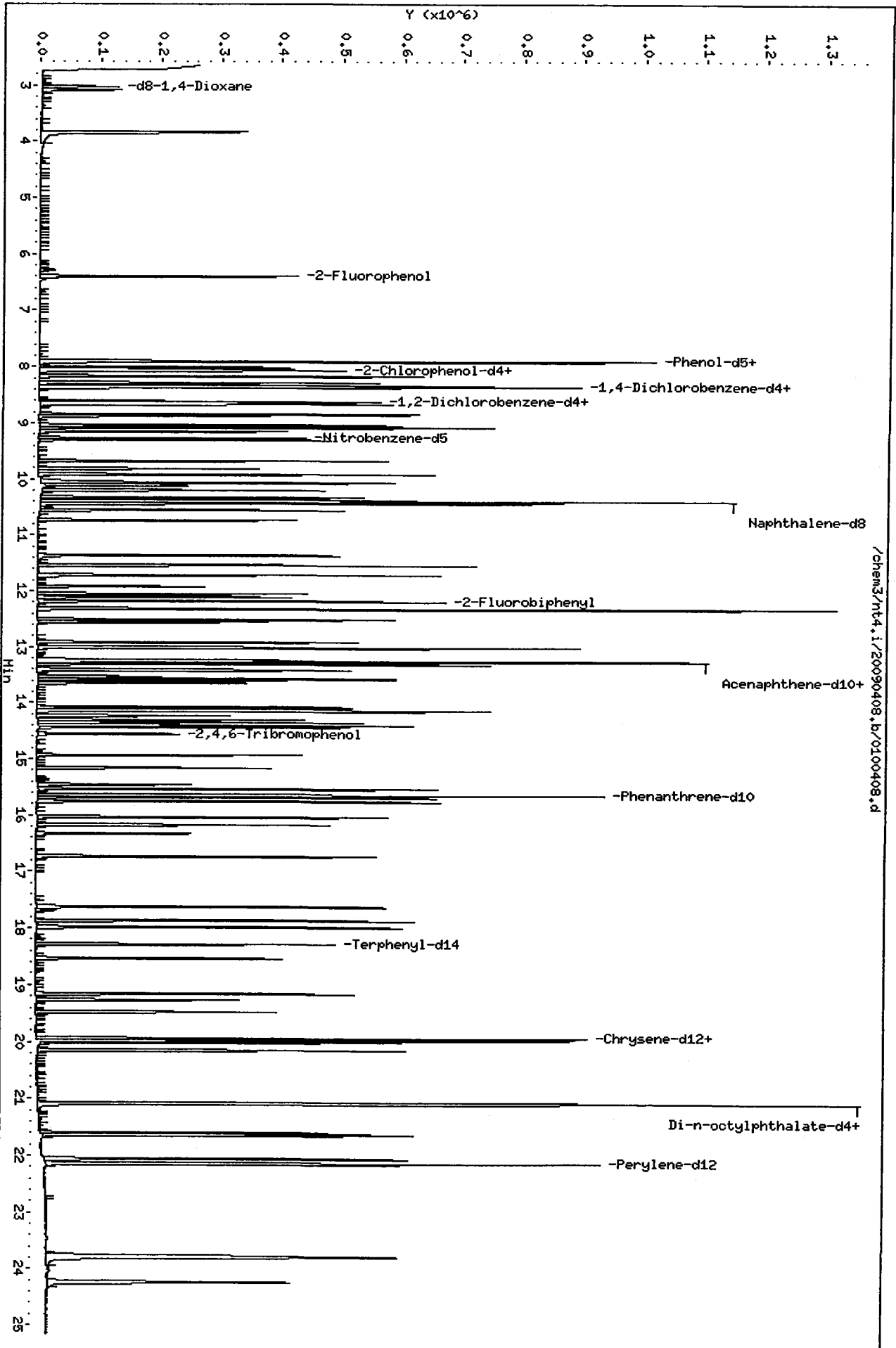
Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	202279	17.29
27 Naphthalene-d8	608124	304062	1216248	700068	15.12
42 Acenaphthene-d10	305977	152988	611954	352242	15.12
59 Phenanthrene-d10	428646	214323	857292	489124	14.11
69 Chrysene-d12	348476	174238	696952	411914	18.20
134 Di-n-octylphthala	674761	337380	1349522	785424	16.40
77 Perylene-d12	426588	213294	853176	489487	14.74

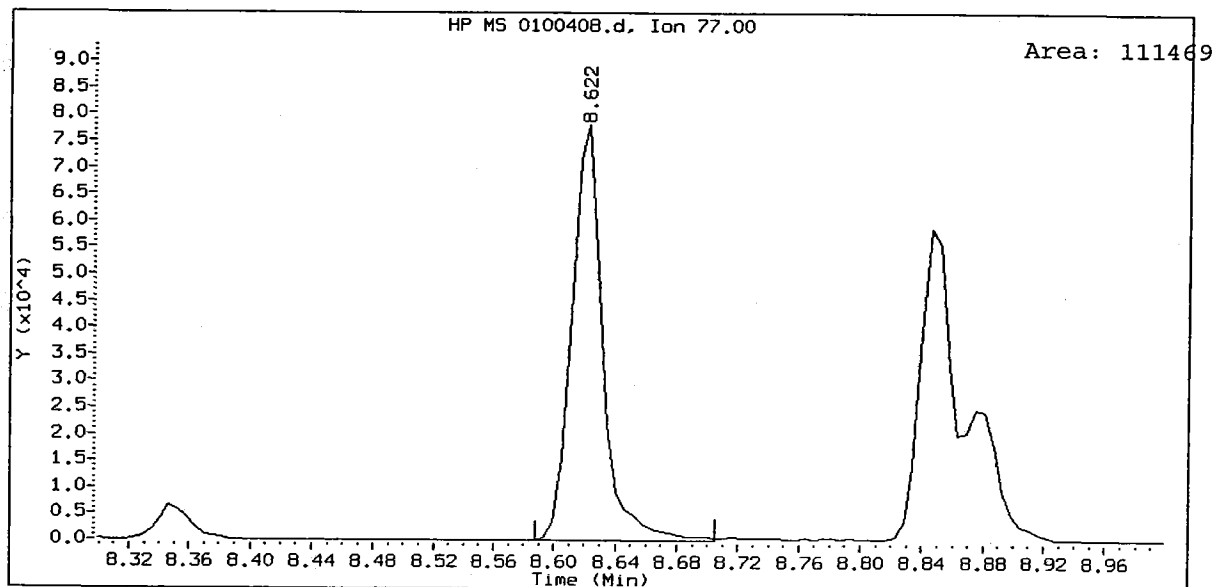
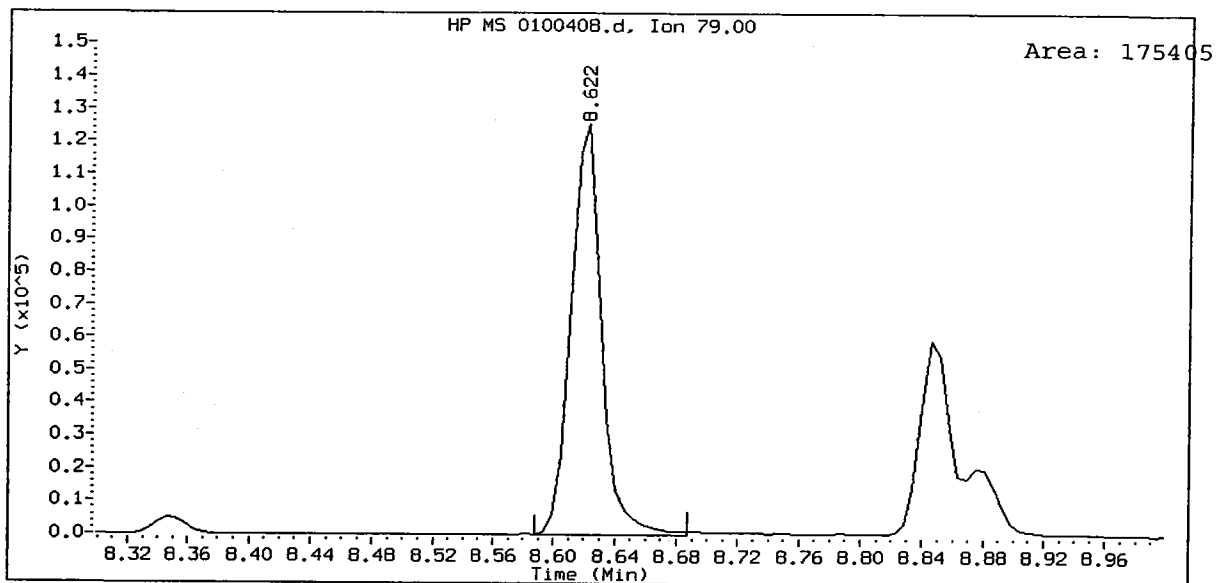
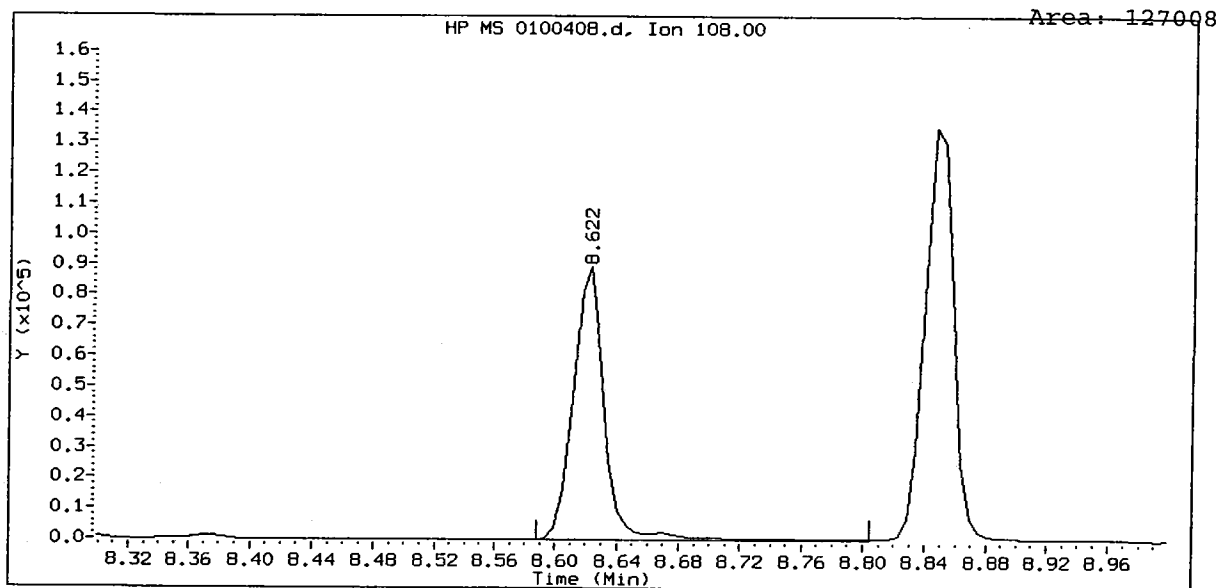
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.35	7.85	8.85	8.35	0.01
27 Naphthalene-d8	10.40	9.90	10.90	10.39	-0.05
42 Acenaphthene-d10	13.26	12.76	13.76	13.26	0.01
59 Phenanthrene-d10	15.65	15.15	16.15	15.65	0.00
69 Chrysene-d12	19.98	19.48	20.48	19.98	-0.03
134 Di-n-octylphthala	21.10	20.60	21.60	21.09	-0.02
77 Perylene-d12	22.15	21.65	22.65	22.15	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

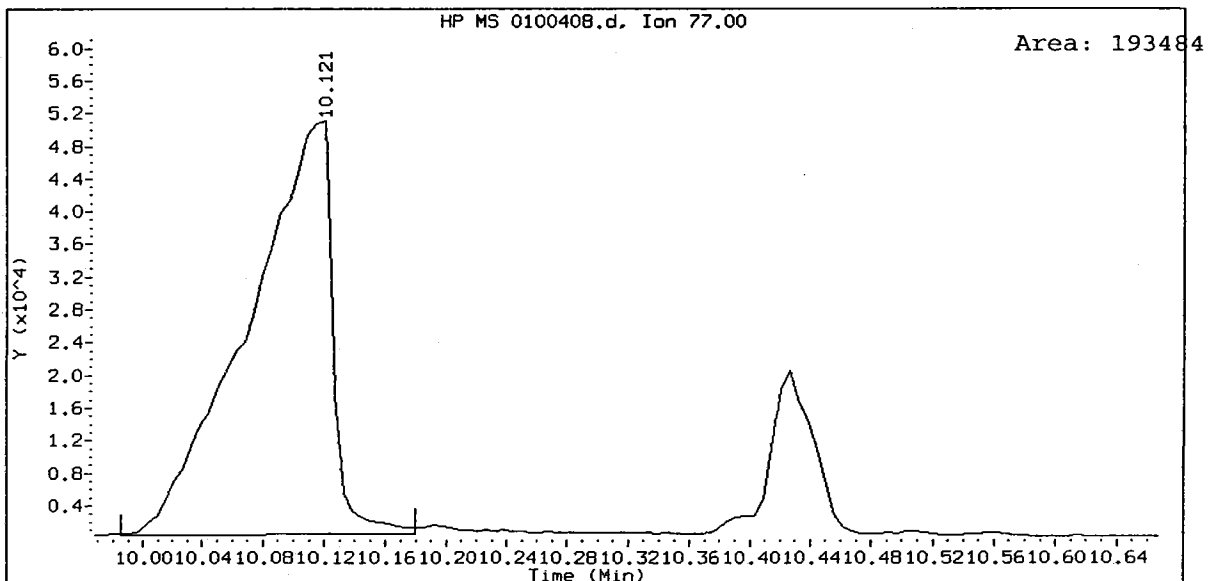
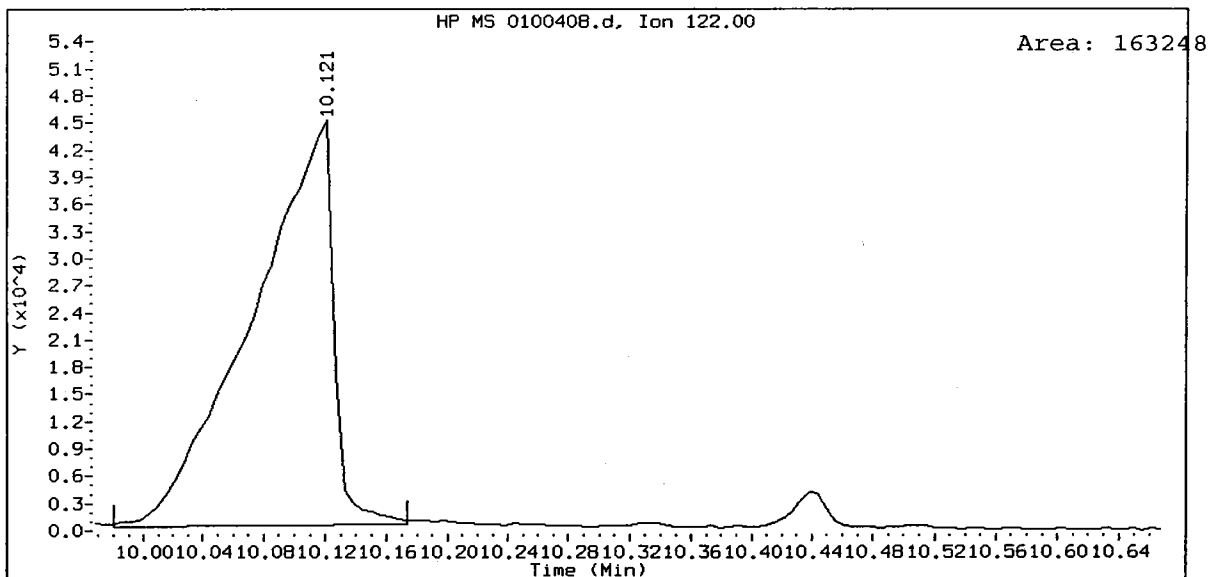
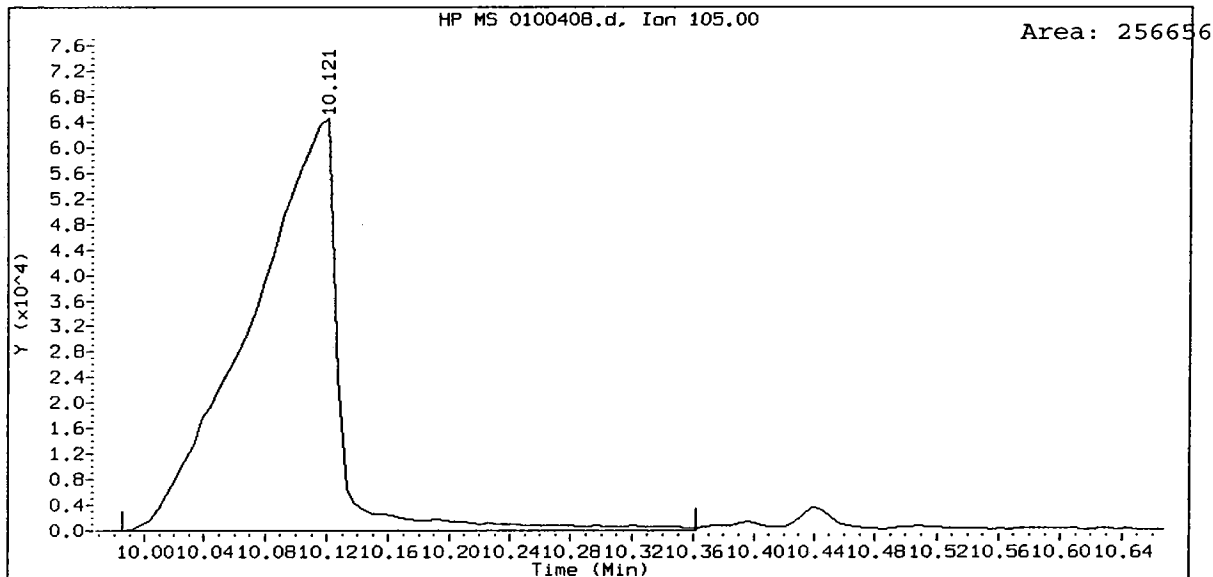


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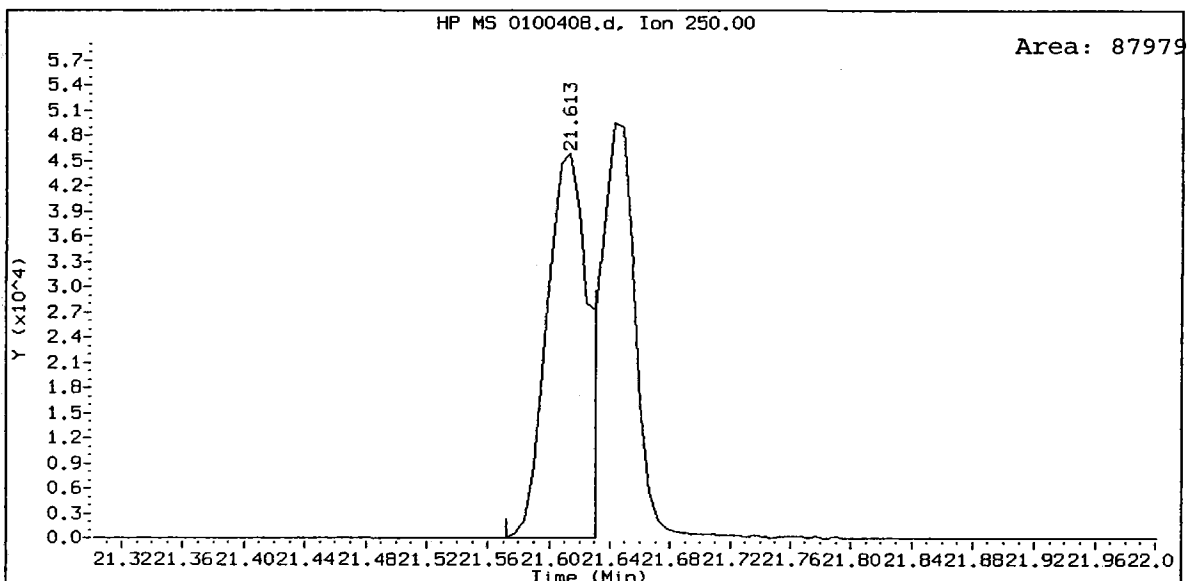
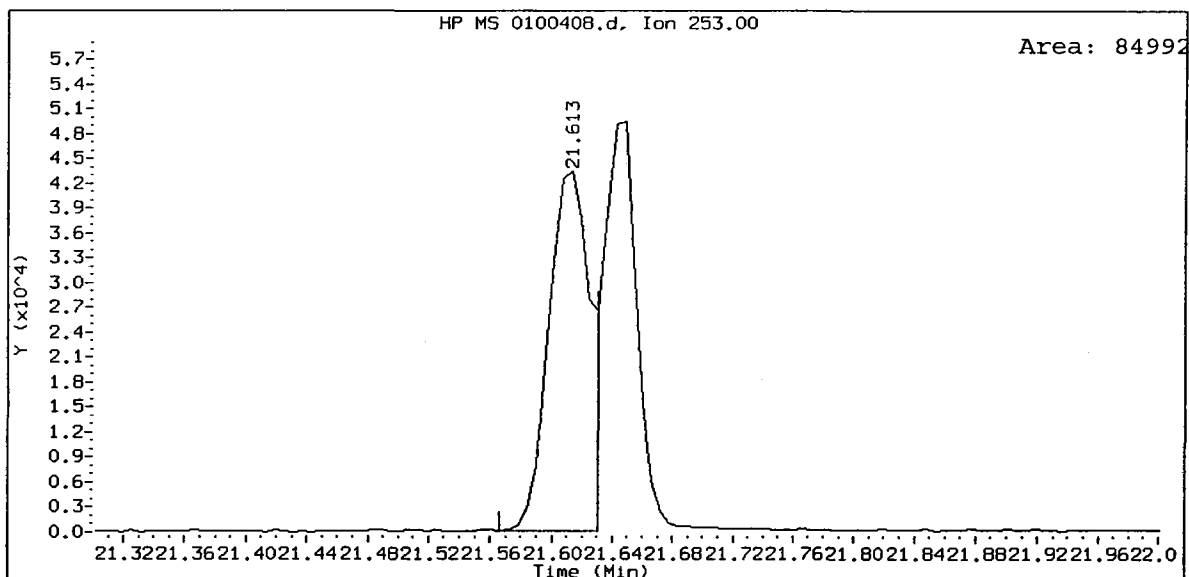
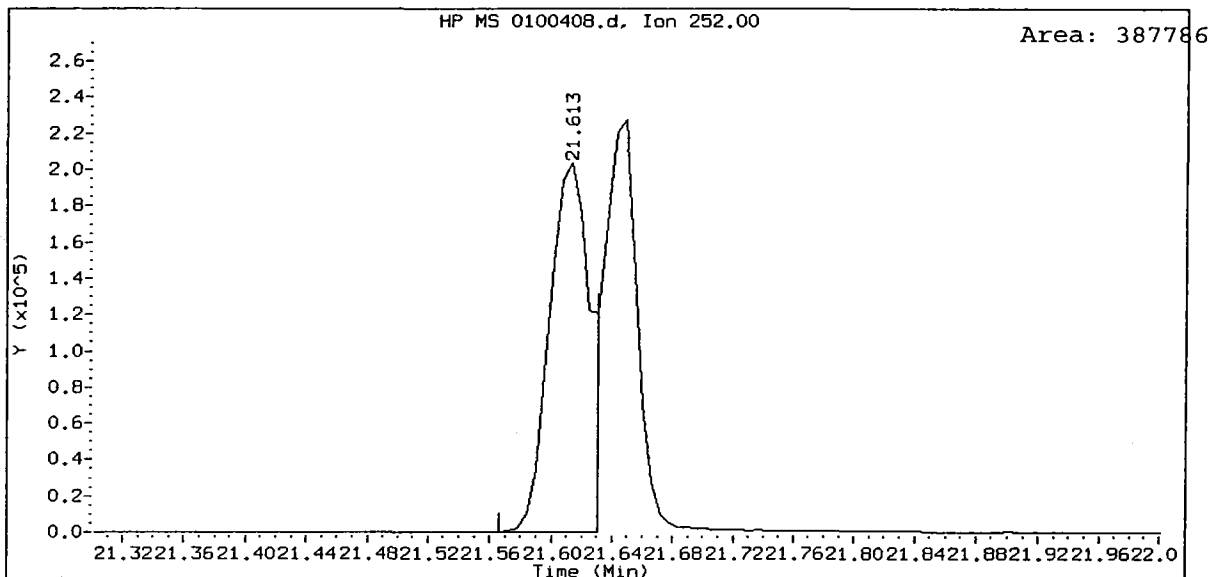
ABN 10, /chem3/nt4.i/20090408.b/0100408.d
Benzyl alcohol Amount: 10.86



ABN 10, /chem3/nt4.i/20090408.b/0100408.d
Benzoic acid Amount: 19.91



ABN 10, /chem3/nt4.i/20090408.b/0100408.d
Benzo(b)fluoranthene Amount: 11.05



Analytical Resources, Inc.

Semivolatible Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090408.b/0250408.d
Lab Smp Id: ABN 25
Inj Date : 08-APR-2009 17:00
Operator : LJR/VTS
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20090408.b/SW846.m
Meth Date : 09-Apr-2009 09:50 jeff
Cal Date : 08-APR-2009 17:34
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

Inst ID: nt4.i
Quant Type: ISTD
Cal File: 0800408.d
Calibration Sample, Level: 4
Compound Sublist: ICAL.sub

LTK
4/9/09

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112	6.401	6.405	(0.766)	345492	25.0000	24.51
\$ 2 Phenol-d5	99	7.911	7.932	(0.947)	452158	25.0000	24.03
3 Phenol	94	7.928	7.956	(0.949)	535985	25.0000	24.11
\$ 5 2-Chlorophenol-d4	132	8.052	8.067	(0.964)	276008	25.0000	24.43
4 Bis(2-Chloroethyl)ether	93	8.017	8.032	(0.960)	394616	25.0000	23.77
6 2-Chlorophenol	128	8.075	8.091	(0.967)	321386	25.0000	24.02
7 1,3-Dichlorobenzene	146	8.293	8.303	(0.993)	340691	25.0000	23.71
* 8 1,4-Dichlorobenzene-d4	152	8.352	8.361	(1.000)	172459	20.0000	
9 1,4-Dichlorobenzene	146	8.375	8.385	(1.003)	337794	25.0000	23.87
\$ 10 1,2-Dichlorobenzene-d4	152	8.651	8.661	(1.036)	194021	25.0000	24.24
12 1,2-Dichlorobenzene	146	8.675	8.684	(1.039)	314449	25.0000	23.60
11 Benzyl alcohol	108	8.628	8.649	(1.033)	254598	25.0000	25.52(M)
14 2,2'-oxybis(1-Chloropropane)	45	8.880	8.890	(1.063)	420886	25.0000	25.26
13 2-Methylphenol	108	8.857	8.872	(1.060)	338127	25.0000	24.54
17 Hexachloroethane	117	9.156	9.166	(1.096)	145173	25.0000	24.18
16 N-Nitroso-di-n-propylamine	70	9.104	9.137	(1.090)	278492	25.0000	23.69
15 4-Methylphenol	108	9.086	9.107	(1.088)	345482	25.0000	24.30
\$ 18 Nitrobenzene-d5	82	9.280	9.295	(0.893)	408600	25.0000	24.52
19 Nitrobenzene	77	9.309	9.331	(0.895)	416968	25.0000	23.82
20 Isophorone	82	9.685	9.719	(0.932)	737527	25.0000	23.77
21 2-Nitrophenol	139	9.820	9.836	(0.945)	170712	25.0000	24.25
22 2,4-Dimethylphenol	107	9.920	9.942	(0.954)	349775	25.0000	24.22
23 Bis(2-Chloroethoxy)methane	93	10.073	10.089	(0.969)	435729	25.0000	23.70
24 Benzoic acid	105	10.179	10.318	(0.979)	571232	50.0000	51.02(M)
25 2,4-Dichlorophenol	162	10.202	10.224	(0.981)	237170	25.0000	24.46
26 1,2,4-Trichlorobenzene	180	10.337	10.347	(0.994)	237699	25.0000	23.53
* 27 Naphthalene-d8	136	10.396	10.406	(1.000)	608124	20.0000	

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	==	=====	=====	-----	-----	-----
28 Naphthalene	128	10.426	10.441	(1.003)	806499	25.0000	23.62
29 4-Chloroaniline	127	10.567	10.582	(1.016)	374667	25.0000	24.86
30 Hexachlorobutadiene	225	10.737	10.741	(1.033)	121003	25.0000	23.45
31 4-Chloro-3-methylphenol	107	11.366	11.381	(1.093)	296523	25.0000	24.66
32 2-Methylnaphthalene	141	11.548	11.558	(1.111)	469950	25.0000	24.48
33 Hexachlorocyclopentadiene	237	11.924	11.928	(0.899)	117622	25.0000	25.27
34 2,4,6-Trichlorophenol	196	12.059	12.075	(0.909)	147610	25.0000	23.98
35 2,4,5-Trichlorophenol	196	12.118	12.133	(0.914)	155467	25.0000	24.63
\$ 36 2-Fluorobiphenyl	172	12.188	12.198	(0.919)	547363	25.0000	24.20
37 2-Chloronaphthalene	162	12.335	12.351	(0.930)	449913	25.0000	23.57
38 2-Nitroaniline	65	12.564	12.580	(0.947)	205194	25.0000	25.21
39 Dimethylphthalate	163	12.929	12.950	(0.975)	523753	25.0000	23.40
40 Acenaphthylene	152	13.011	13.021	(0.981)	784421	25.0000	23.79
41 2,6-Dinitrotoluene	165	13.028	13.044	(0.982)	119212	25.0000	23.66
* 42 Acenaphthene-d10	164	13.263	13.273	(1.000)	305977	20.0000	23.74
43 3-Nitroaniline	138	13.240	13.267	(0.998)	147716	25.0000	24.26
44 Acenaphthene	153	13.316	13.332	(1.004)	474996	25.0000	23.74
45 2,4-Dinitrophenol	184	13.410	13.438	(1.011)	113247	50.0000	46.70
46 Dibenzofuran	168	13.581	13.596	(1.024)	662004	25.0000	24.15
47 4-Nitrophenol	109	13.545	13.567	(1.021)	82589	25.0000	25.40
48 2,4-Dinitrotoluene	165	13.657	13.679	(1.030)	156958	25.0000	23.69
50 Diethylphthalate	149	14.086	14.102	(1.062)	529183	25.0000	23.48
49 Fluorene	166	14.139	14.149	(1.066)	522028	25.0000	23.86
51 4-Chlorophenyl-phenylether	204	14.156	14.166	(1.067)	216244	25.0000	23.47
52 4-Nitroaniline	138	14.245	14.290	(1.074)	144615	25.0000	24.50
53 4,6-Dinitro-2-methylphenol	198	14.315	14.354	(0.915)	160517	50.0000	50.69
54 N-Nitrosodiphenylamine	169	14.362	14.384	(0.918)	362710	25.0000	23.95
\$ 55 2,4,6-Tribromophenol	330	14.562	14.578	(1.098)	63531	25.0000	24.14
56 4-Bromophenyl-phenylether	248	14.938	14.948	(0.955)	127182	25.0000	24.05
57 Hexachlorobenzene	284	15.167	15.177	(0.969)	126881	25.0000	23.76
58 Pentachlorophenol	266	15.461	15.482	(0.988)	79015	25.0000	25.03
* 59 Phenanthrene-d10	188	15.649	15.659	(1.000)	428646	20.0000	23.86
60 Phenanthrene	178	15.690	15.700	(1.003)	667566	25.0000	24.03
61 Anthracene	178	15.761	15.776	(1.007)	692462	25.0000	23.97
62 Carbazole	167	16.043	16.058	(1.025)	632345	25.0000	24.21
63 Di-n-butylphthalate	149	16.742	16.746	(1.070)	834454	25.0000	23.85
64 Fluoranthene	202	17.635	17.645	(1.127)	659071	25.0000	24.04
65 Pyrene	202	17.993	18.009	(0.900)	672273	25.0000	24.50
\$ 66 Terphenyl-d14	244	18.293	18.303	(0.915)	416067	25.0000	24.59
67 Butylbenzylphthalate	149	19.168	19.184	(0.959)	368979	25.0000	23.56
68 Benzo(a)anthracene	228	19.956	19.971	(0.999)	583677	25.0000	24.93
* 69 Chrysene-d12	240	19.985	20.001	(1.000)	348476	20.0000	23.81
70 3,3'-Dichlorobenzidine	252	19.956	19.977	(0.999)	225302	25.0000	24.36
71 Chrysene	228	20.026	20.048	(1.002)	581122	25.0000	23.93
72 bis(2-Ethylhexyl)phthalate	149	20.155	20.165	(0.955)	520986	25.0000	24.36
* 134 Di-n-octylphthalate-d4	153	21.095	21.105	(1.000)	674761	20.0000	23.93
73 Di-n-octylphthalate	149	21.101	21.117	(1.000)	905571	25.0000	23.93

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ug/mL)	ON-COL (ug/mL)
74 Benzo(b)fluoranthene	252	21.618	21.652	(0.976)	678358	25.0000	22.18
75 Benzo(k)fluoranthene	252	21.654	21.687	(0.977)	727353	25.0000	24.75
76 Benzo(a)pyrene	252	22.071	22.098	(0.996)	654700	25.0000	23.59
* 77 Perylene-d12	264	22.153	22.163	(1.000)	426588	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.798	23.849	(1.074)	833188	25.0000	24.14
79 Dibenzo(a,h)anthracene	278	23.828	23.878	(1.076)	691150	25.0000	24.28
80 Benzo(g,h,i)perylene	276	24.268	24.331	(1.095)	748693	25.0000	24.50
90 N-Nitrosodimethylamine	74	3.863	3.890	(0.462)	268020	25.0000	23.97
103 Pyridine	79	3.827	3.825	(0.458)	435297	25.0000	22.81
91 Aniline	93	7.905	7.921	(0.947)	630791	25.0000	25.41
105 1-methylnaphthalene	141	11.718	11.734	(1.127)	440437	25.0000	23.98
93 Benzidine	184	17.876	17.885	(0.894)	336021	25.0000	31.03
111 Azobenzene (1,2-DP-Hydrazine)	77	14.409	14.425	(1.086)	721352	25.0000	23.98
143 1,4-Dioxane	88	3.087	3.091	(0.370)	164348	25.0000	22.80
\$ 137 d8-1,4-Dioxane	96	3.028	3.026	(0.363)	146820	25.0000	22.84
144 alpha-Terpineol	59	10.443	10.459	(1.005)	229623	25.0000	24.13
98 Retene	219	18.545	18.555	(0.928)	225982	25.0000	24.42
133 Butylatedhydroxytoluene	205	13.422	13.438	(1.012)	345510	25.0000	25.57
115 Tributyl Phosphate	99	14.444	14.472	(0.923)	723030	25.0000	24.00
116 Dibutyl Phenyl Phosphate	175	16.184	16.193	(1.034)	369517	25.0000	24.55
117 Butyl Diphenyl Phosphate	94	17.876	17.891	(0.894)	180040	25.0000	24.63
118 Triphenyl Phosphate	326	19.491	19.501	(0.975)	112394	25.0000	24.28
123 Acetophenone	105	9.045	9.066	(1.083)	466885	25.0000	23.81
179 n-Decane	57	8.169	8.179	(0.978)	390988	25.0000	24.85
180 n-Octadecane	57	15.537	15.547	(0.993)	383721	25.0000	25.88
168 Pentachlorobenzene	250	13.622	13.637	(1.027)	159421	25.0000	23.55
113 Diphenyl Oxide	170	12.517	12.521	(0.944)	331297	25.0000	24.84
112 Biphenyl	154	12.323	12.339	(0.929)	650833	25.0000	25.38

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: 0250408.d
 Lab Smp Id: ABN 25
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090408.b/SW846.m
 Misc Info:

Calibration Date: 08-APR-2009
 Calibration Time: 17:00

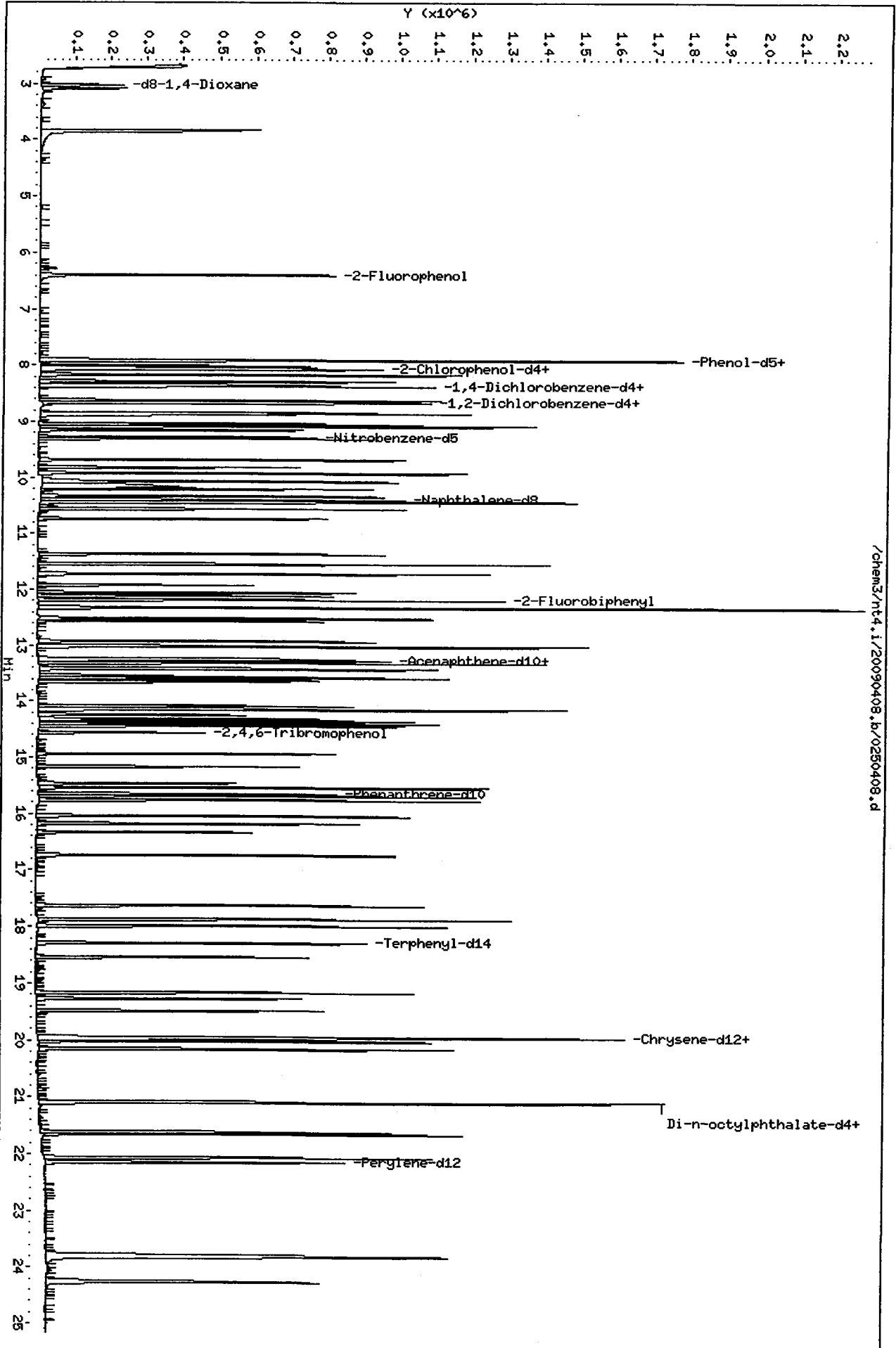
Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	172459	0.00
27 Naphthalene-d8	608124	304062	1216248	608124	0.00
42 Acenaphthene-d10	305977	152988	611954	305977	0.00
59 Phenanthrene-d10	428646	214323	857292	428646	0.00
69 Chrysene-d12	348476	174238	696952	348476	0.00
134 Di-n-octylphthala	674761	337380	1349522	674761	0.00
77 Perylene-d12	426588	213294	853176	426588	0.00

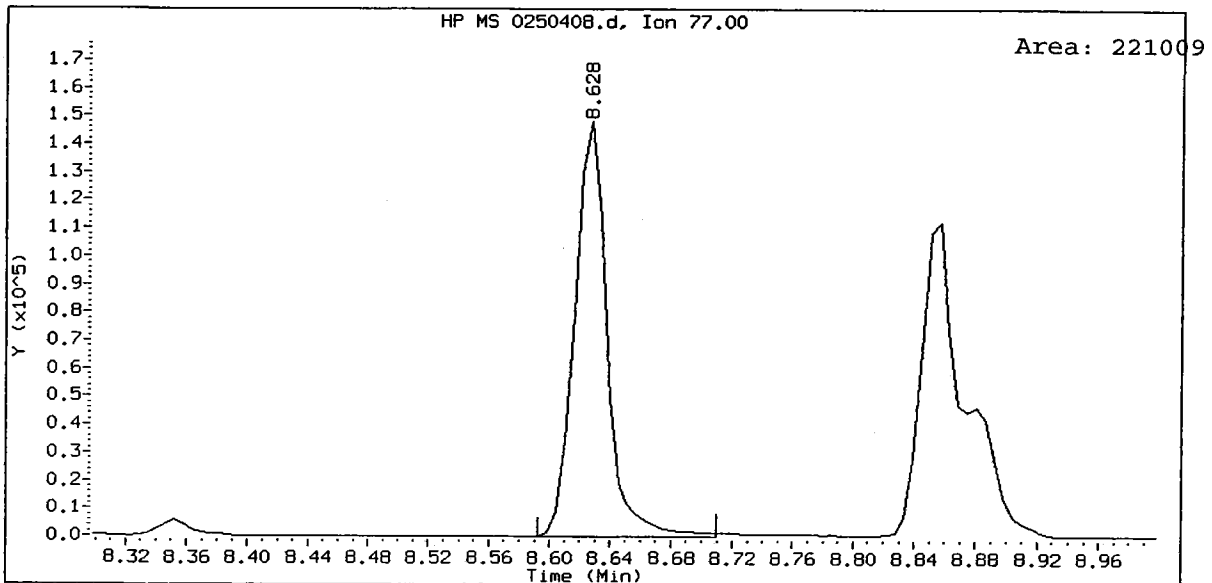
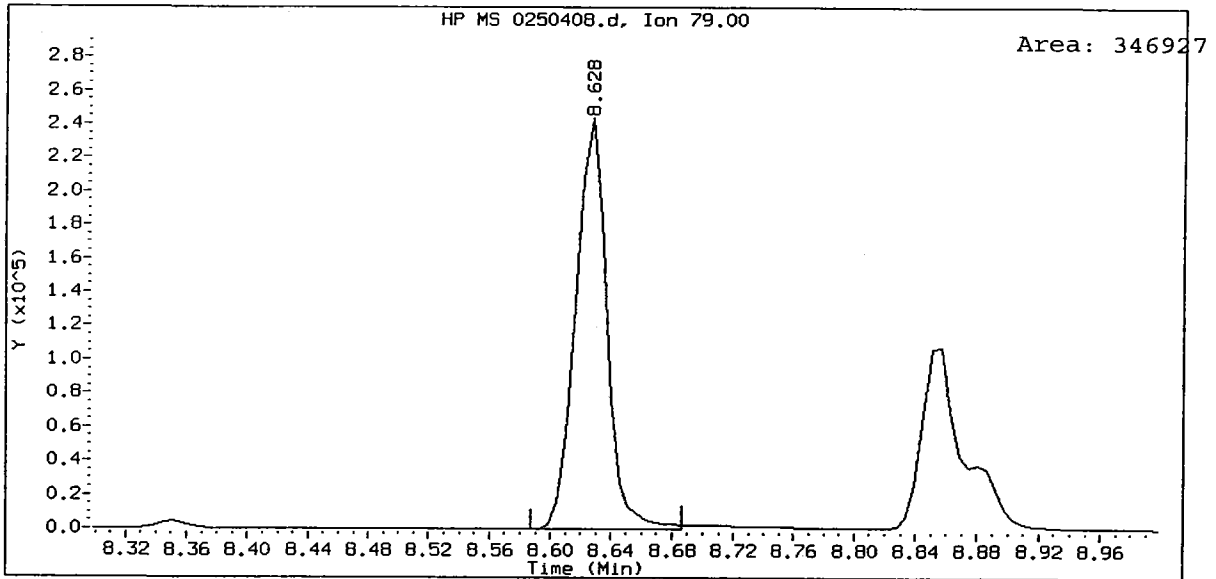
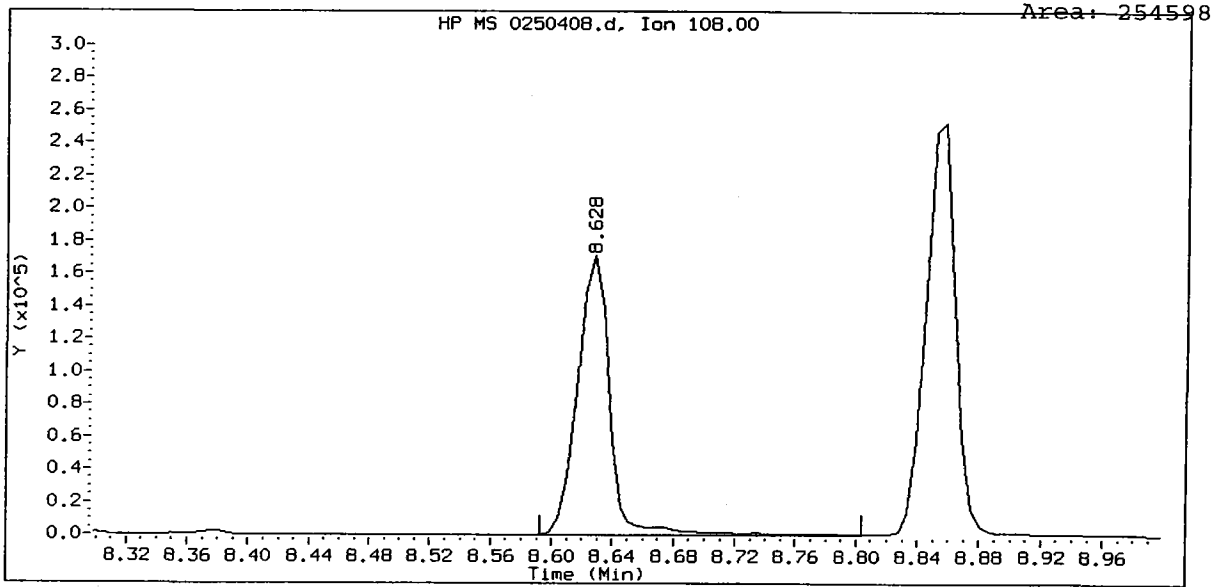
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.35	7.85	8.85	8.35	0.00
27 Naphthalene-d8	10.40	9.90	10.90	10.40	0.00
42 Acenaphthene-d10	13.26	12.76	13.76	13.26	0.00
59 Phenanthrene-d10	15.65	15.15	16.15	15.65	0.00
69 Chrysene-d12	19.98	19.48	20.48	19.98	0.00
134 Di-n-octylphthala	21.10	20.60	21.60	21.10	0.00
77 Perylene-d12	22.15	21.65	22.65	22.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

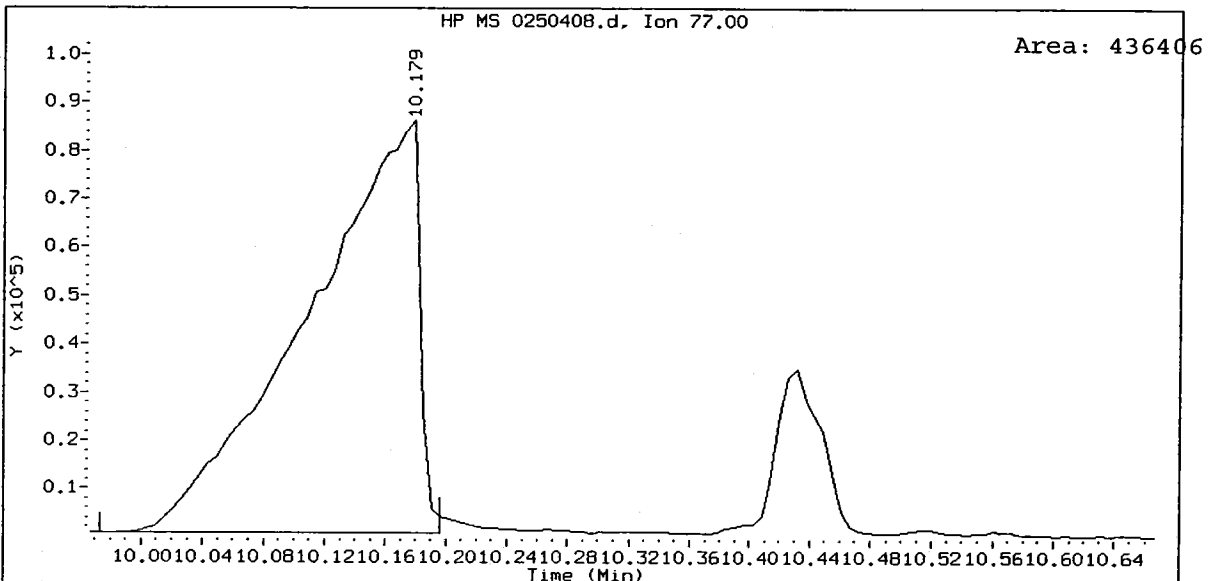
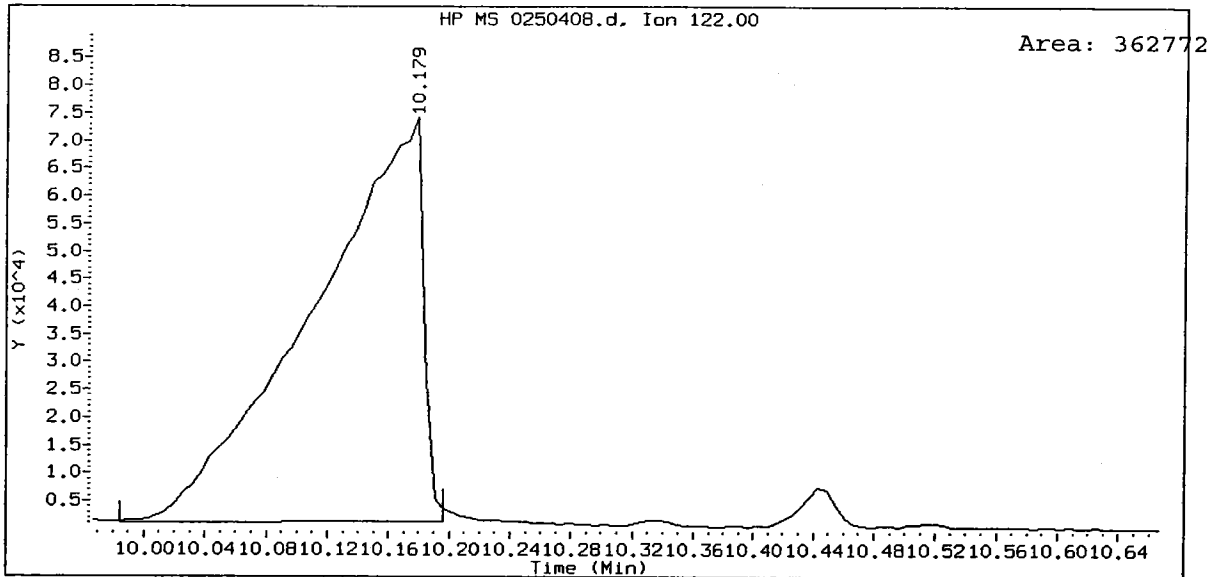
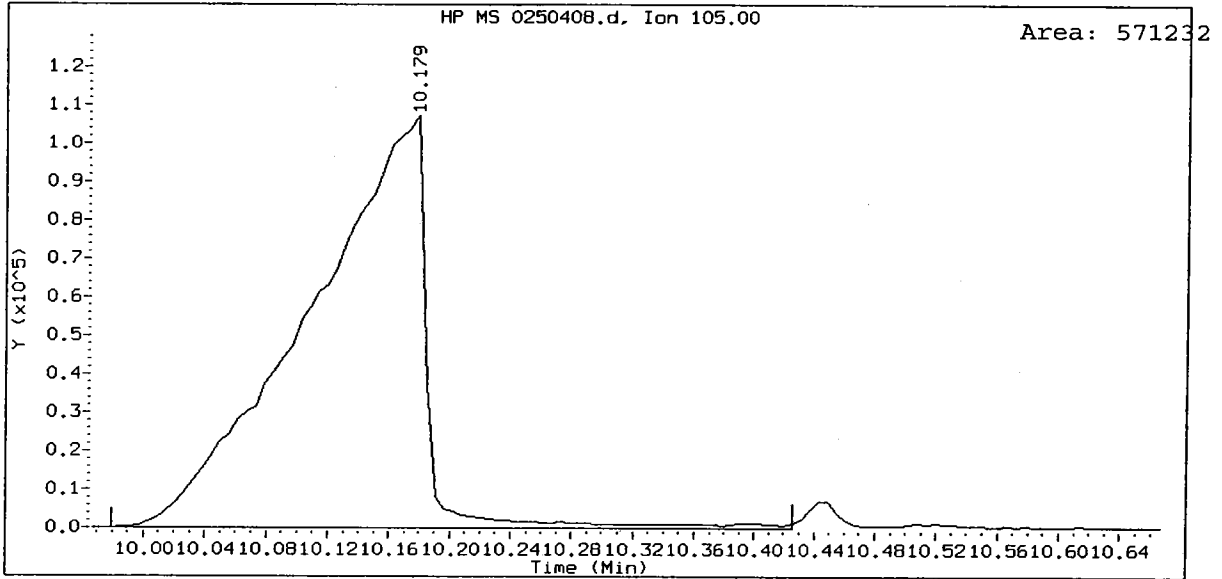


/chem3/nt4.i/20090408.b/0250408.d

ABN 25, /chem3/nt4.i/20090408.b/0250408.d
Benzyl alcohol Amount: 25.52



ABN 25, /chem3/nt4.i/20090408.b/0250408.d
Benzoic acid Amount: 51.02



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20090408.b/ddt.b/0250408.d ARI ID:
Method: /chem3/nt4.i/20090408.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 08-APR-2009 17:00 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	15.461	78294
Benzidine	17.876	336021
4,4'-DDE	-----	-----
4,4'-DDD	18.798	3120
4,4'-DDT	19.274	191185

LTK
4/7/09

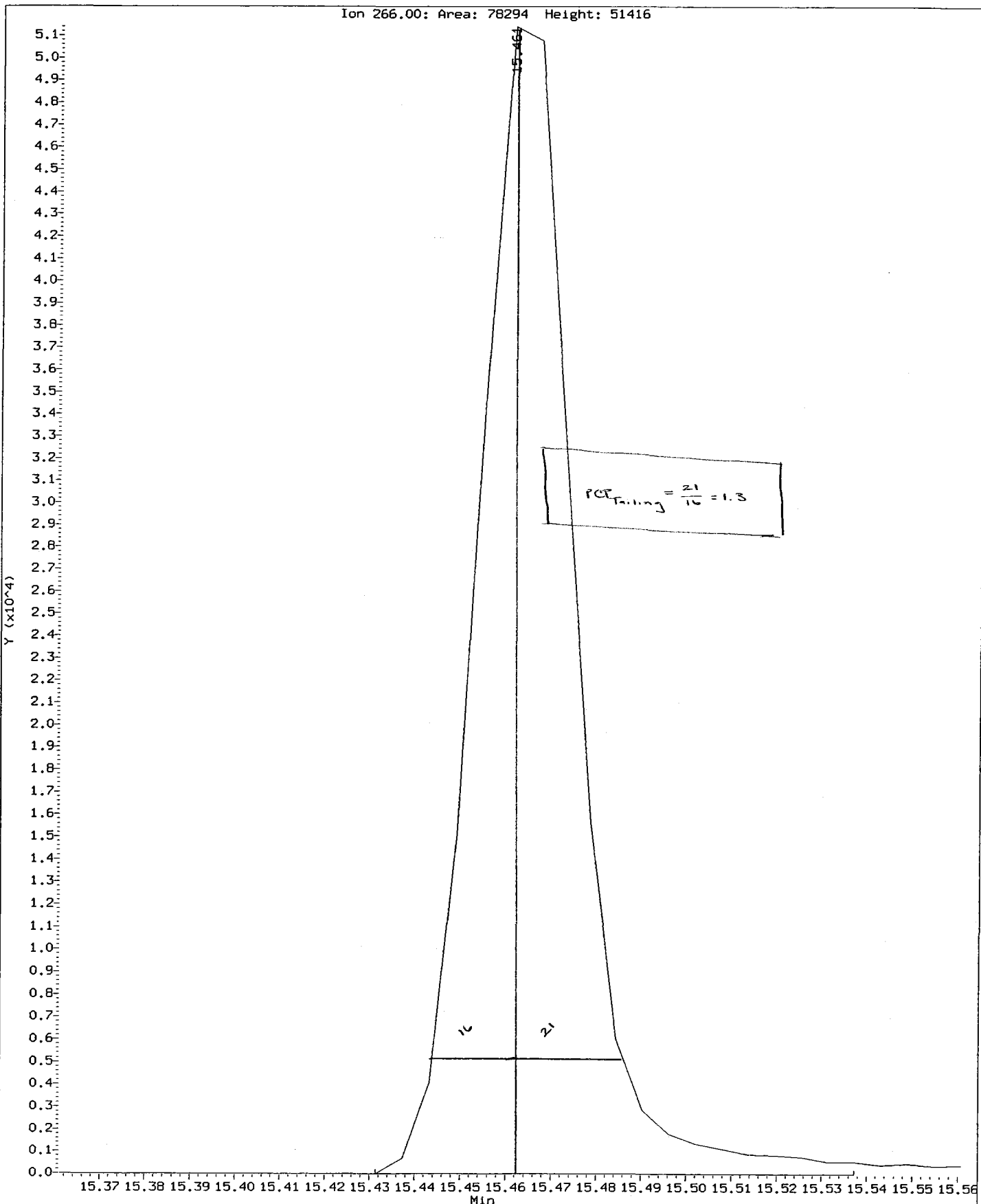
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 3120) * 100}{(0 + 3120 + 191185)}$$

$$\text{DDT Percent Breakdown} = \boxed{1.6 \%}$$

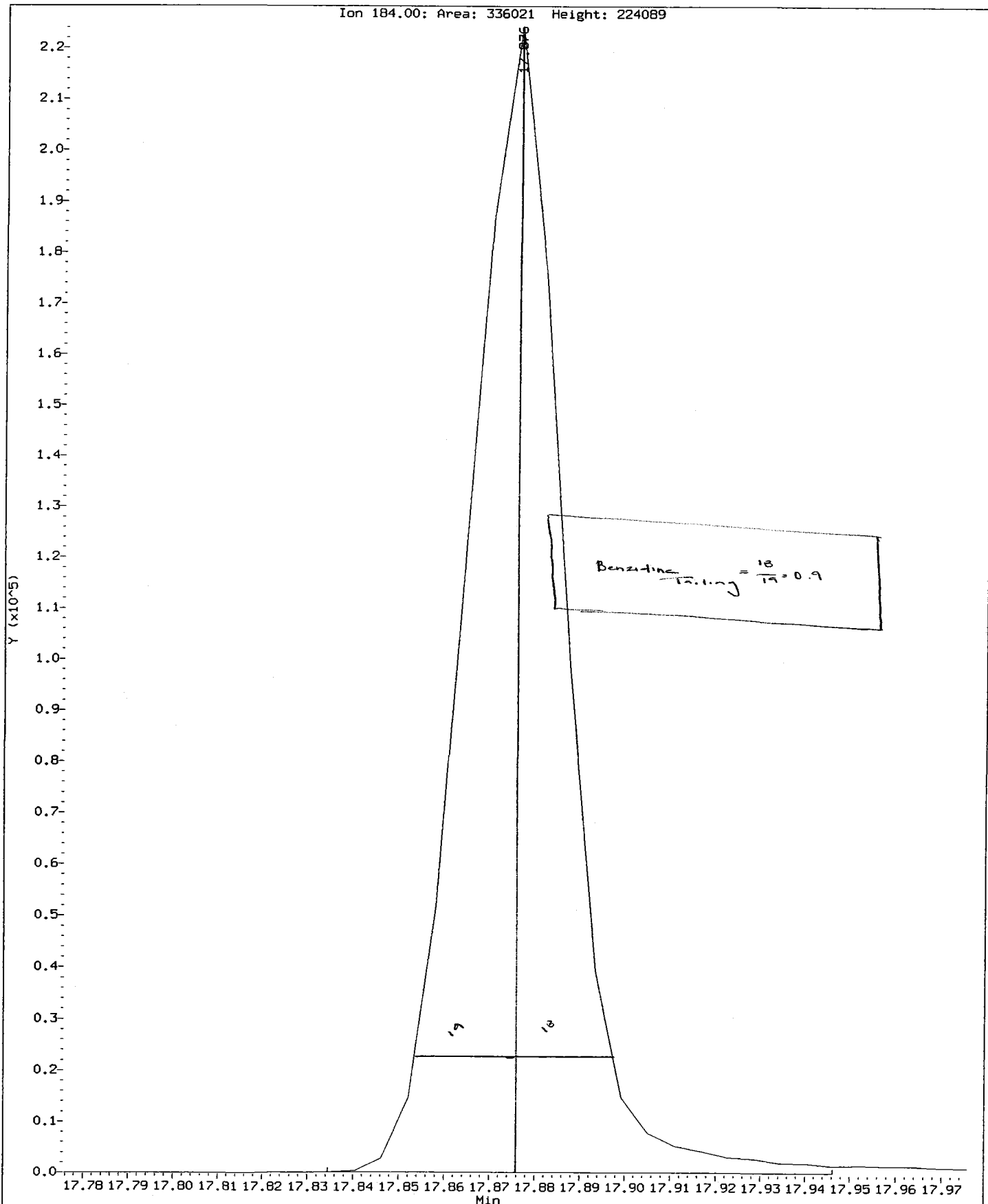
Data File: /chem3/nt4.1/20090408.b/ddt.b/0250408.d
Injection Date: 08-APR-2009 17:00
Instrument: nt4.1
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.1/20090408.b/ddt.b/0250408.d
Injection Date: 08-APR-2009 17:00
Instrument: nt4.1
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090408.b/0400408.d
 Lab Smp Id: ABN 40
 Inj Date : 08-APR-2009 18:43
 Operator : LJR/VTS
 Smp Info : ABN 40
 Misc Info :
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090408.b/SW846.m
 Meth Date : 09-Apr-2009 09:50 jeff
 Cal Date : 08-APR-2009 17:34
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt4.i
 Quant Type: ISTD
 Cal File: 0800408.d
 Calibration Sample, Level: 5
 Compound Sublist: ICAL.sub

LJR
4/9/09

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112		6.398	6.405	(0.766)	591115	40.0000	38.40
\$ 2 Phenol-d5	99		7.914	7.932	(0.947)	729789	40.0000	35.51
3 Phenol	94		7.938	7.956	(0.950)	860323	40.0000	35.43
\$ 5 2-Chlorophenol-d4	132		8.055	8.067	(0.964)	465105	40.0000	37.70
4 Bis(2-Chloroethyl)ether	93		8.020	8.032	(0.960)	656021	40.0000	36.18
6 2-Chlorophenol	128		8.079	8.091	(0.967)	537936	40.0000	36.80
7 1,3-Dichlorobenzene	146		8.296	8.303	(0.993)	582709	40.0000	37.12
* 8 1,4-Dichlorobenzene-d4	152		8.355	8.361	(1.000)	188358	20.0000	
9 1,4-Dichlorobenzene	146		8.378	8.385	(1.003)	570086	40.0000	36.88
\$ 10 1,2-Dichlorobenzene-d4	152		8.655	8.661	(1.036)	318996	40.0000	36.49
12 1,2-Dichlorobenzene	146		8.672	8.684	(1.038)	527422	40.0000	36.24
11 Benzyl alcohol	108		8.631	8.649	(1.033)	407378	40.0000	37.39
14 2,2'-oxybis(1-Chloropropane)	45		8.884	8.890	(1.063)	644378	40.0000	40.11
13 2-Methylphenol	108		8.860	8.872	(1.060)	561870	40.0000	37.33
17 Hexachloroethane	117		9.160	9.166	(1.096)	243792	40.0000	37.17
16 N-Nitroso-di-n-propylamine	70		9.113	9.137	(1.091)	444209	40.0000	34.59
15 4-Methylphenol	108		9.089	9.107	(1.088)	561396	40.0000	36.15
\$ 18 Nitrobenzene-d5	82		9.283	9.295	(0.893)	676129	40.0000	37.13
19 Nitrobenzene	77		9.313	9.331	(0.895)	670888	40.0000	35.09
20 Isophorone	82		9.695	9.719	(0.932)	1207943	40.0000	35.64
21 2-Nitrophenol	139		9.824	9.836	(0.945)	298437	40.0000	38.80
22 2,4-Dimethylphenol	107		9.930	9.942	(0.955)	585634	40.0000	37.11
23 Bis(2-Chloroethoxy)methane	93		10.076	10.089	(0.969)	716943	40.0000	35.70
24 Benzoic acid	105		10.229	10.318	(0.984)	998492	80.0000	81.63 (M)
25 2,4-Dichlorophenol	162		10.212	10.224	(0.982)	396102	40.0000	37.39
26 1,2,4-Trichlorobenzene	180		10.335	10.347	(0.994)	405947	40.0000	36.79
* 27 Naphthalene-d8	136		10.400	10.406	(1.000)	664374	20.0000	

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
28 Naphthalene	128	10.429	10.441	(1.003)	1290555	40.0000	34.60
29 4-Chloroaniline	127	10.570	10.582	(1.016)	591203	40.0000	35.90
30 Hexachlorobutadiene	225	10.740	10.741	(1.033)	209414	40.0000	37.14
31 4-Chloro-3-methylphenol	107	11.369	11.381	(1.093)	493545	40.0000	37.56
32 2-Methylnaphthalene	141	11.551	11.558	(1.111)	752370	40.0000	35.87
33 Hexachlorocyclopentadiene	237	11.927	11.928	(0.899)	211388	40.0000	41.94
34 2,4,6-Trichlorophenol	196	12.062	12.075	(0.909)	261044	40.0000	39.17
35 2,4,5-Trichlorophenol	196	12.121	12.133	(0.914)	270694	40.0000	39.59
\$ 36 2-Fluorobiphenyl	172	12.192	12.198	(0.919)	905554	40.0000	36.96
37 2-Chloronaphthalene	162	12.339	12.351	(0.930)	714634	40.0000	34.57
38 2-Nitroaniline	65	12.568	12.580	(0.947)	327840	40.0000	37.20
39 Dimethylphthalate	163	12.932	12.950	(0.975)	882994	40.0000	36.43
40 Acenaphthylene	152	13.014	13.021	(0.981)	1288488	40.0000	36.08
41 2,6-Dinitrotoluene	165	13.032	13.044	(0.982)	202654	40.0000	37.14
* 42 Acenaphthene-d10	164	13.267	13.273	(1.000)	331355	20.0000	
43 3-Nitroaniline	138	13.249	13.267	(0.999)	248275	40.0000	37.65
44 Acenaphthene	153	13.320	13.332	(1.004)	783613	40.0000	36.16
45 2,4-Dinitrophenol	184	13.414	13.438	(1.011)	213704	80.0000	81.38
46 Dibenzofuran	168	13.584	13.596	(1.024)	1066424	40.0000	35.93
47 4-Nitrophenol	109	13.549	13.567	(1.021)	139585	40.0000	39.64
48 2,4-Dinitrotoluene	165	13.661	13.679	(1.030)	273264	40.0000	38.08
50 Diethylphthalate	149	14.089	14.102	(1.062)	900374	40.0000	36.89
49 Fluorene	166	14.142	14.149	(1.066)	848772	40.0000	35.82
51 4-Chlorophenyl-phenylether	204	14.154	14.166	(1.067)	356942	40.0000	35.77
52 4-Nitroaniline	138	14.254	14.290	(1.074)	243959	40.0000	38.17
53 4,6-Dinitro-2-methylphenol	198	14.330	14.354	(0.916)	301070	80.0000	84.80
54 N-Nitrosodiphenylamine	169	14.366	14.384	(0.918)	613556	40.0000	36.13
\$ 55 2,4,6-Tribromophenol	330	14.565	14.578	(1.098)	109903	40.0000	38.57
56 4-Bromophenyl-phenylether	248	14.941	14.948	(0.955)	220379	40.0000	37.17
57 Hexachlorobenzene	284	15.171	15.177	(0.969)	220787	40.0000	36.88
58 Pentachlorophenol	266	15.470	15.482	(0.988)	148269	40.0000	41.89
* 59 Phenanthrene-d10	188	15.652	15.659	(1.000)	480572	20.0000	
60 Phenanthrene	178	15.693	15.700	(1.003)	1129965	40.0000	36.03
61 Anthracene	178	15.764	15.776	(1.007)	1150892	40.0000	35.62
62 Carbazole	167	16.046	16.058	(1.025)	1081971	40.0000	36.57
63 Di-n-butylphthalate	149	16.739	16.746	(1.069)	1416417	40.0000	36.65
64 Fluoranthene	202	17.638	17.645	(1.127)	1137683	40.0000	36.72
65 Pyrene	202	17.997	18.009	(0.900)	1153606	40.0000	36.60
\$ 66 Terphenyl-d14	244	18.296	18.303	(0.915)	719492	40.0000	37.58
67 Butylbenzylphthalate	149	19.172	19.184	(0.959)	631432	40.0000	37.34
68 Benzo(a)anthracene	228	19.959	19.971	(0.999)	1005017	40.0000	35.99
* 69 Chrysene-d12	240	19.988	20.001	(1.000)	392842	20.0000	
70 3,3'-Dichlorobenzidine	252	19.959	19.977	(0.999)	380348	40.0000	37.33
71 Chrysene	228	20.030	20.048	(1.002)	997315	40.0000	36.25
72 bis(2-Ethylhexyl)phthalate	149	20.159	20.165	(0.956)	865083	40.0000	37.79
* 134 Di-n-octylphthalate-d4	153	21.093	21.105	(1.000)	722188	20.0000	
73 Di-n-octylphthalate	149	21.105	21.117	(1.001)	1490556	40.0000	36.80

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
74 Benzo(b)fluoranthene	252	21.628	21.652	(0.976)	1250697	40.0000	36.37 (H)
75 Benzo(k)fluoranthene	252	21.663	21.687	(0.978)	1172210	40.0000	35.47
76 Benzo(a)pyrene	252	22.080	22.098	(0.997)	1127330	40.0000	36.13
* 77 Perylene-d12	264	22.156	22.163	(1.000)	479636	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.813	23.849	(1.075)	1439481	40.0000	37.09
79 Dibenzo(a,h)anthracene	278	23.837	23.878	(1.076)	1174369	40.0000	36.69
80 Benzo(g,h,i)perylene	276	24.283	24.331	(1.096)	1290515	40.0000	37.56
90 N-Nitrosodimethylamine	74	3.872	3.890	(0.463)	459998	40.0000	37.67
103 Pyridine	79	3.831	3.825	(0.458)	824047	40.0000	39.53
91 Aniline	93	7.908	7.921	(0.947)	945104	40.0000	34.86
105 1-methylnaphthalene	141	11.722	11.734	(1.127)	724819	40.0000	36.12
93 Benzidine	184	17.879	17.885	(0.894)	364791	40.0000	29.89
111 Azobenzene (1,2-DP-Hydrazine)	77	14.413	14.425	(1.086)	1124718	40.0000	34.53
143 1,4-Dioxane	88	3.085	3.091	(0.369)	301958	40.0000	38.36
\$ 137 d8-1,4-Dioxane	96	3.026	3.026	(0.362)	273724	40.0000	38.98
144 alpha-Terpineol	59	10.447	10.459	(1.005)	350852	40.0000	33.75
98 Retene	219	18.549	18.555	(0.928)	402405	40.0000	38.57
133 Butylatedhydroxytoluene	205	13.425	13.438	(1.012)	537475	40.0000	36.73
115 Tributyl Phosphate	99	14.448	14.472	(0.923)	1186164	40.0000	35.12
116 Dibutyl Phenyl Phosphate	175	16.181	16.193	(1.034)	649840	40.0000	38.50
117 Butyl Diphenyl Phosphate	94	17.879	17.891	(0.894)	298870	40.0000	36.27
118 Triphenyl Phosphate	326	19.495	19.501	(0.975)	202150	40.0000	38.73
123 Acetophenone	105	9.048	9.066	(1.083)	778743	40.0000	36.36
179 n-Decane	57	8.173	8.179	(0.978)	593613	40.0000	34.55
180 n-Octadecane	57	15.541	15.547	(0.993)	581594	40.0000	39.76
168 Pentachlorobenzene	250	13.625	13.637	(1.027)	267082	40.0000	36.43
113 Diphenyl Oxide	170	12.515	12.521	(0.943)	539151	40.0000	37.32
112 Biphenyl	154	12.327	12.339	(0.929)	985554	40.0000	40.05

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: 0400408.d
 Lab Smp Id: ABN 40
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090408.b/SW846.m
 Misc Info:

Calibration Date: 08-APR-2009
 Calibration Time: 17:00

Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	188358	9.22
27 Naphthalene-d8	608124	304062	1216248	664374	9.25
42 Acenaphthene-d10	305977	152988	611954	331355	8.29
59 Phenanthrene-d10	428646	214323	857292	480572	12.11
69 Chrysene-d12	348476	174238	696952	392842	12.73
134 Di-n-octylphthala	674761	337380	1349522	722188	7.03
77 Perylene-d12	426588	213294	853176	479636	12.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.35	7.85	8.85	8.35	0.04
27 Naphthalene-d8	10.40	9.90	10.90	10.40	0.03
42 Acenaphthene-d10	13.26	12.76	13.76	13.27	0.03
59 Phenanthrene-d10	15.65	15.15	16.15	15.65	0.02
69 Chrysene-d12	19.98	19.48	20.48	19.99	0.02
134 Di-n-octylphthala	21.10	20.60	21.60	21.09	-0.01
77 Perylene-d12	22.15	21.65	22.65	22.16	0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Date: 08-APR-2009 18:43

Client ID:

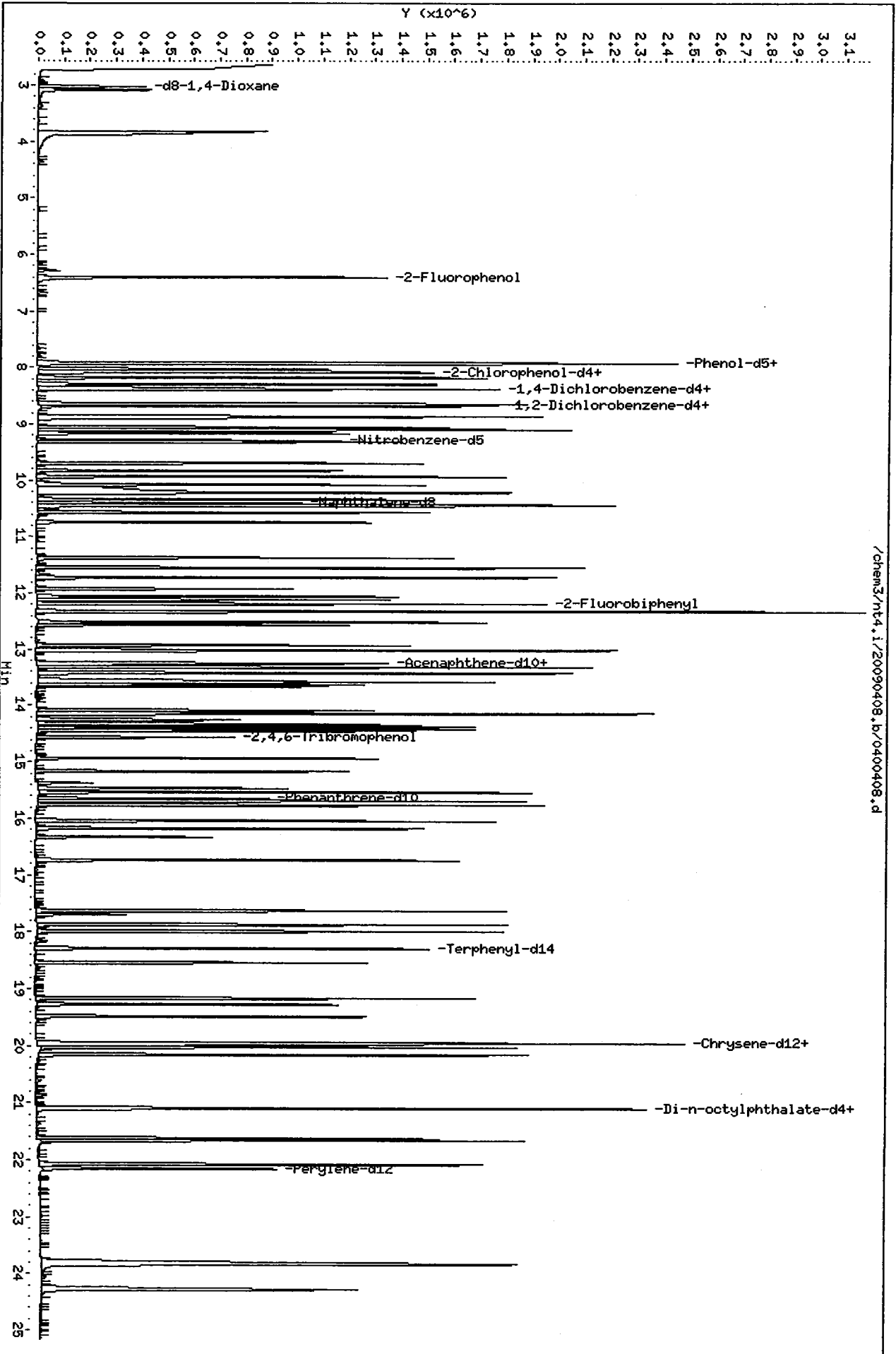
Sample Info: ABN 40

Column phase: ZB-5

Instrument: nt4.i

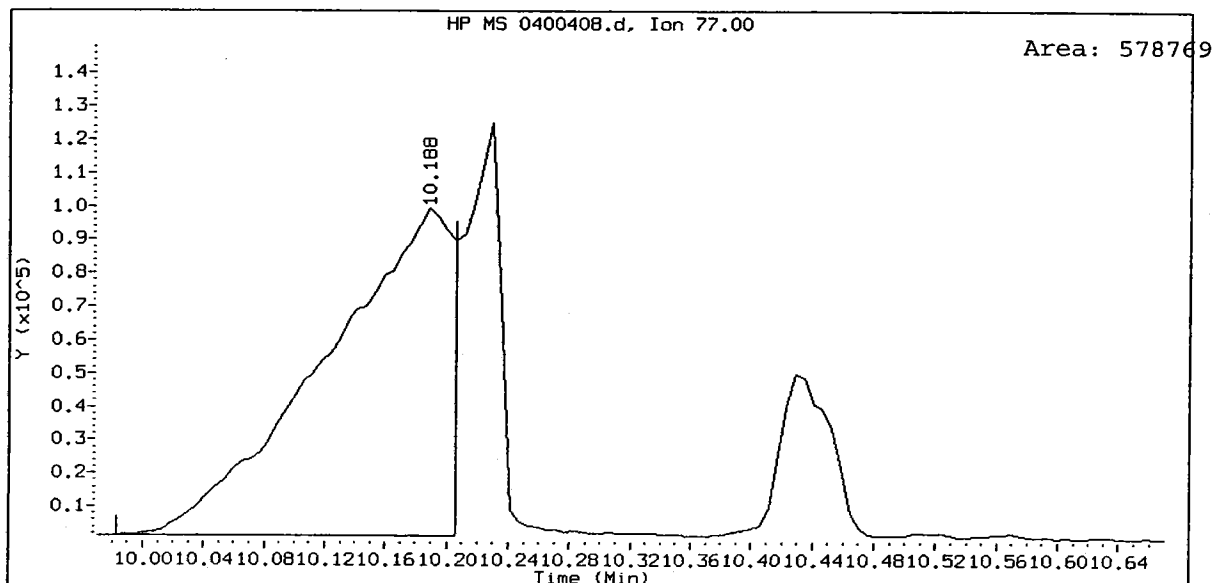
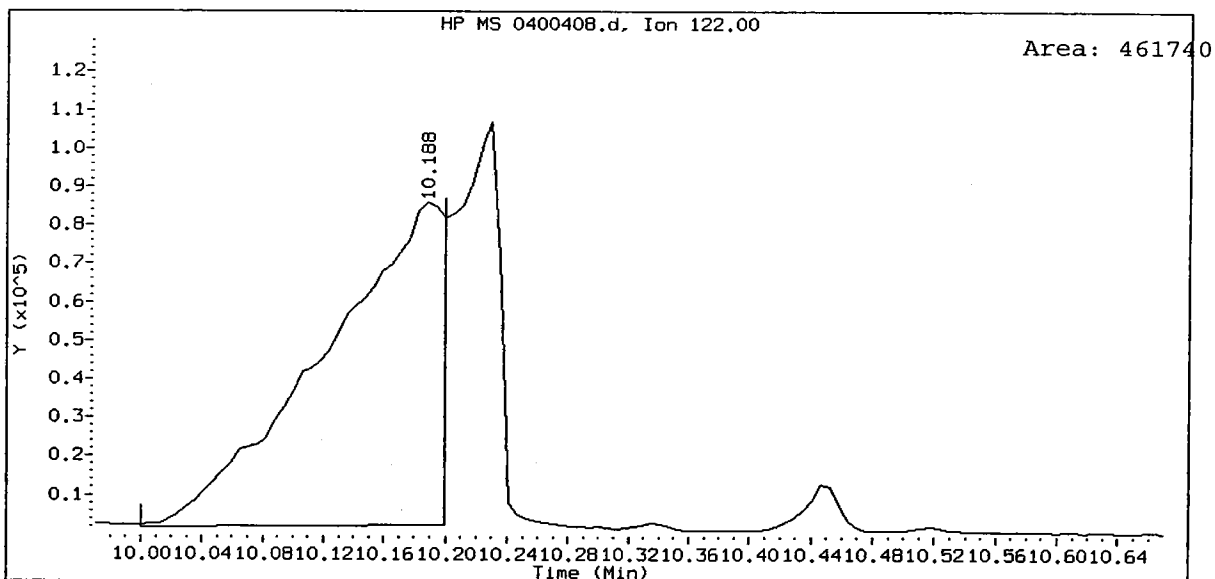
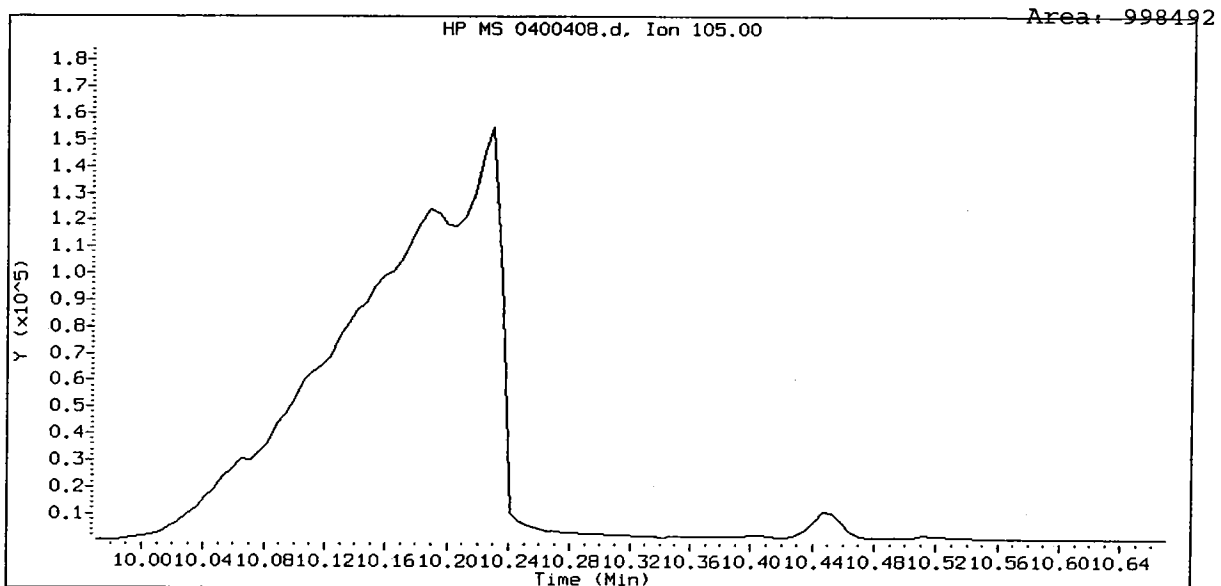
Operator: LJR/VTS

Column diameter: 0.32

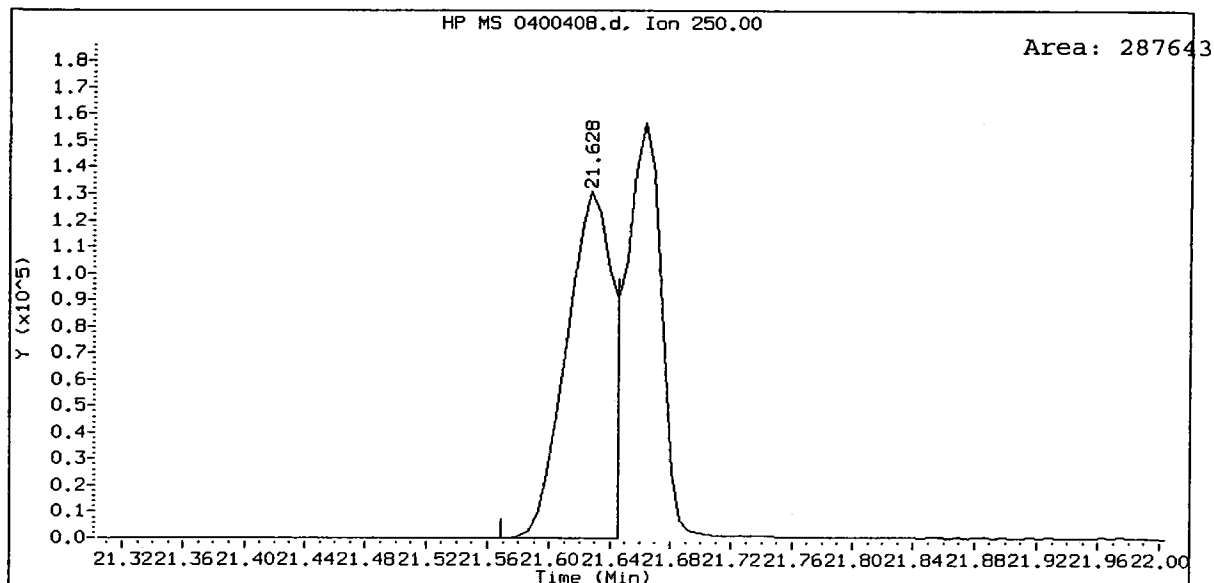
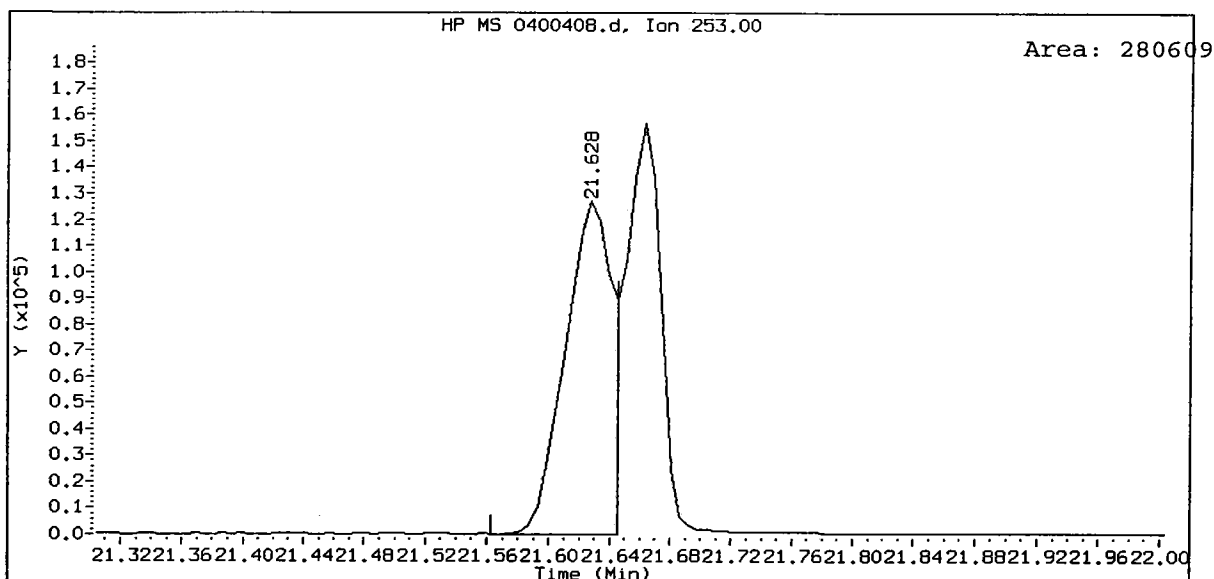
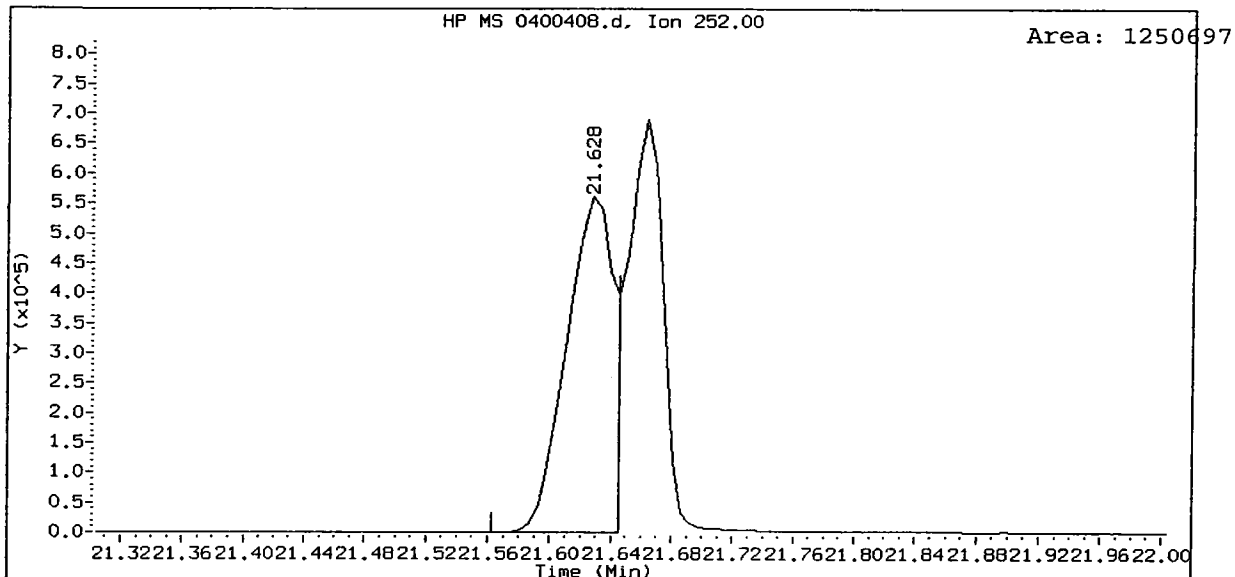


0400408.d

ABN 40, /chem3/nt4.i/20090408.b/0400408.d
Benzoic acid Amount: 81.63



ABN 40, /chem3/nt4.i/20090408.b/0400408.d
Benzo(b)fluoranthene Amount: 36.37



0400 : 00214

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090408.b/0800408.d
 Lab Smp Id: ABN 80
 Inj Date : 08-APR-2009 17:34
 Operator : LJR/VTS
 Smp Info : ABN 80
 Misc Info :
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090408.b/SW846.m
 Meth Date : 09-Apr-2009 09:50 jeff
 Cal Date : 08-APR-2009 17:34
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt4.i
 Quant Type: ISTD
 Cal File: 0800408.d
 Calibration Sample, Level: 6
 Compound Sublist: ICAL.sub

LJR
4/9/09

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112	6.405	6.405	(0.766)	1099519	80.0000	75.20
\$ 2 Phenol-d5	99	7.932	7.932	(0.949)	1269634	80.0000	65.03
3 Phenol	94	7.956	7.956	(0.952)	1447436	80.0000	62.75
\$ 5 2-Chlorophenol-d4	132	8.067	8.067	(0.965)	815254	80.0000	69.57
4 Bis(2-Chloroethyl)ether	93	8.032	8.032	(0.961)	1139520	80.0000	66.17
6 2-Chlorophenol	128	8.091	8.091	(0.968)	911882	80.0000	65.68
7 1,3-Dichlorobenzene	146	8.303	8.303	(0.993)	1028934	80.0000	69.01
* 8 1,4-Dichlorobenzene-d4	152	8.361	8.361	(1.000)	178915	20.0000	
9 1,4-Dichlorobenzene	146	8.385	8.385	(1.003)	978111	80.0000	66.62
\$ 10 1,2-Dichlorobenzene-d4	152	8.661	8.661	(1.036)	531886	80.0000	64.05
12 1,2-Dichlorobenzene	146	8.684	8.684	(1.039)	882286	80.0000	63.82
11 Benzyl alcohol	108	8.649	8.649	(1.034)	699082	80.0000	67.56(M)
14 2,2'-oxybis(1-Chloropropane)	45	8.890	8.890	(1.063)	979644	80.0000	79.92
13 2-Methylphenol	108	8.872	8.872	(1.061)	933752	80.0000	65.31
17 Hexachloroethane	117	9.166	9.166	(1.096)	413747	80.0000	66.42
16 N-Nitroso-di-n-propylamine	70	9.137	9.137	(1.093)	756362	80.0000	62.01
15 4-Methylphenol	108	9.107	9.107	(1.089)	929710	80.0000	63.03
\$ 18 Nitrobenzene-d5	82	9.295	9.295	(0.893)	1203273	80.0000	69.26
19 Nitrobenzene	77	9.331	9.331	(0.897)	1132449	80.0000	62.07
20 Isophorone	82	9.719	9.719	(0.934)	2238369	80.0000	69.22
21 2-Nitrophenol	139	9.836	9.836	(0.945)	540808	80.0000	73.70
22 2,4-Dimethylphenol	107	9.942	9.942	(0.955)	1010150	80.0000	67.09
23 Bis(2-Chloroethoxy)methane	93	10.089	10.089	(0.970)	1259950	80.0000	65.76
24 Benzoic acid	105	10.318	10.318	(0.992)	1928473	160.0000	165.2(M)
25 2,4-Dichlorophenol	162	10.224	10.224	(0.982)	706548	80.0000	69.91
26 1,2,4-Trichlorobenzene	180	10.347	10.347	(0.994)	718917	80.0000	68.29
* 27 Naphthalene-d8	136	10.406	10.406	(1.000)	633883	20.0000	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	==	=====	=====	=====	=====	=====
28 Naphthalene	128	10.441	10.441	(1.003)	2126059	80.0000	59.75
29 4-Chloroaniline	127	10.582	10.582	(1.017)	1039086	80.0000	66.14
30 Hexachlorobutadiene	225	10.741	10.741	(1.032)	374469	80.0000	69.61
31 4-Chloro-3-methylphenol	107	11.381	11.381	(1.094)	885028	80.0000	70.60
32 2-Methylnaphthalene	141	11.558	11.558	(1.111)	1313275	80.0000	65.63
33 Hexachlorocyclopentadiene	237	11.928	11.928	(0.899)	408773	80.0000	87.29
34 2,4,6-Trichlorophenol	196	12.075	12.075	(0.910)	489389	80.0000	79.03
35 2,4,5-Trichlorophenol	196	12.133	12.133	(0.914)	506573	80.0000	79.75
\$ 36 2-Fluorobiphenyl	172	12.198	12.198	(0.919)	1609676	80.0000	70.72
37 2-Chloronaphthalene	162	12.351	12.351	(0.930)	1154053	80.0000	60.08
38 2-Nitroaniline	65	12.580	12.580	(0.948)	577462	80.0000	70.51
39 Dimethylphthalate	163	12.950	12.950	(0.976)	1663580	80.0000	73.88
40 Acenaphthylene	152	13.021	13.021	(0.981)	2190543	80.0000	66.01
41 2,6-Dinitrotoluene	165	13.044	13.044	(0.983)	379854	80.0000	74.94
* 42 Acenaphthene-d10	164	13.273	13.273	(1.000)	307866	20.0000	
43 3-Nitroaniline	138	13.267	13.267	(1.000)	465046	80.0000	75.90
44 Acenaphthene	153	13.332	13.332	(1.004)	1339837	80.0000	66.55
45 2,4-Dinitrophenol	184	13.438	13.438	(1.012)	392278	160.0000	160.8
46 Dibenzofuran	168	13.596	13.596	(1.024)	1901474	80.0000	68.95
47 4-Nitrophenol	109	13.567	13.567	(1.022)	232168	80.0000	70.96
48 2,4-Dinitrotoluene	165	13.679	13.679	(1.031)	520869	80.0000	78.12
50 Diethylphthalate	149	14.102	14.102	(1.062)	1641014	80.0000	72.37
49 Fluorene	166	14.149	14.149	(1.066)	1389887	80.0000	63.14
51 4-Chlorophenyl-phenylether	204	14.166	14.166	(1.067)	614879	80.0000	66.32
52 4-Nitroaniline	138	14.290	14.290	(1.077)	476184	80.0000	80.19
53 4,6-Dinitro-2-methylphenol	198	14.354	14.354	(0.917)	583498	160.0000	161.6
54 N-Nitrosodiphenylamine	169	14.384	14.384	(0.919)	1104625	80.0000	63.96
\$ 55 2,4,6-Tribromophenol	330	14.578	14.578	(1.098)	215065	80.0000	81.23
56 4-Bromophenyl-phenylether	248	14.948	14.948	(0.955)	417664	80.0000	69.26
57 Hexachlorobenzene	284	15.177	15.177	(0.969)	423173	80.0000	69.51
58 Pentachlorophenol	266	15.482	15.482	(0.989)	298802	80.0000	83.00
* 59 Phenanthrene-d10	188	15.659	15.659	(1.000)	488770	20.0000	
60 Phenanthrene	178	15.700	15.700	(1.003)	2053893	80.0000	64.38
61 Anthracene	178	15.776	15.776	(1.008)	2049603	80.0000	62.38
62 Carbazole	167	16.058	16.058	(1.026)	1968057	80.0000	65.41
63 Di-n-butylphthalate	149	16.746	16.746	(1.069)	2495426	80.0000	63.49
64 Fluoranthene	202	17.645	17.645	(1.127)	2116757	80.0000	67.17
65 Pyrene	202	18.009	18.009	(0.900)	2121455	80.0000	67.18
\$ 66 Terphenyl-d14	244	18.303	18.303	(0.915)	1364148	80.0000	71.13
67 Butylbenzylphthalate	149	19.184	19.184	(0.959)	1185710	80.0000	69.98
68 Benzo(a)anthracene	228	19.971	19.971	(0.999)	1889181	80.0000	67.52
* 69 Chrysene-d12	240	20.001	20.001	(1.000)	393547	20.0000	
70 3,3'-Dichlorobenzidine	252	19.977	19.977	(0.999)	705273	80.0000	69.10
71 Chrysene	228	20.048	20.048	(1.002)	1906411	80.0000	69.18
72 bis(2-Ethylhexyl)phthalate	149	20.165	20.165	(0.955)	1547853	80.0000	68.96
* 134 Di-n-octylphthalate-d4	153	21.105	21.105	(1.000)	708064	20.0000	
73 Di-n-octylphthalate	149	21.117	21.117	(1.001)	2670302	80.0000	67.23

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	==	=====	=====	-----	-----	
74 Benzo(b)fluoranthene	252	21.652	21.652	(0.977)	2808832	80.0000	77.78
75 Benzo(k)fluoranthene	252	21.687	21.687	(0.979)	1918889	80.0000	55.30 (H)
76 Benzo(a)pyrene	252	22.098	22.098	(0.997)	2244975	80.0000	68.51
* 77 Perylene-d12	264	22.163	22.163	(1.000)	503650	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.849	23.849	(1.076)	2851857	80.0000	69.98
79 Dibenzo(a,h)anthracene	278	23.878	23.878	(1.077)	2239318	80.0000	66.62
80 Benzo(g,h,i)perylene	276	24.331	24.331	(1.098)	2593325	80.0000	71.88
90 N-Nitrosodimethylamine	74	3.890	3.890	(0.465)	898493	80.0000	77.47
103 Pyridine	79	3.825	3.825	(0.458)	1564609	80.0000	79.02
91 Aniline	93	7.921	7.921	(0.947)	1692064	80.0000	65.71
105 1-methylnaphthalene	141	11.734	11.734	(1.128)	1239734	80.0000	64.75
93 Benzidine	184	17.885	17.885	(0.894)	602412	80.0000	49.27
111 Azobenzene (1,2-DP-Hydrazine)	77	14.425	14.425	(1.087)	1888270	80.0000	62.40
143 1,4-Dioxane	88	3.091	3.091	(0.370)	565363	80.0000	75.61
\$ 137 d8-1,4-Dioxane	96	3.026	3.026	(0.362)	519313	80.0000	77.86
144 alpha-Terpineol	59	10.459	10.459	(1.005)	560672	80.0000	56.53
98 Retene	219	18.555	18.555	(0.928)	756375	80.0000	72.36
133 Butylatedhydroxytoluene	205	13.438	13.438	(1.012)	859070	80.0000	63.19
115 Tributyl Phosphate	99	14.472	14.472	(0.924)	1977266	80.0000	57.56
116 Dibutyl Phenyl Phosphate	175	16.193	16.193	(1.034)	1134837	80.0000	66.11
117 Butyl Diphenyl Phosphate	94	17.891	17.891	(0.895)	501505	80.0000	60.75
118 Triphenyl Phosphate	326	19.501	19.501	(0.975)	402893	80.0000	77.05
123 Acetophenone	105	9.066	9.066	(1.084)	1394650	80.0000	68.55
179 n-Decane	57	8.179	8.179	(0.978)	934377	80.0000	57.25
180 n-Octadecane	57	15.547	15.547	(0.993)	937152	80.0000	79.94
168 Pentachlorobenzene	250	13.637	13.637	(1.027)	486512	80.0000	71.43
113 Diphenyl Oxide	170	12.521	12.521	(0.943)	966786	80.0000	72.03
112 Biphenyl	154	12.339	12.339	(0.930)	1470561	80.0000	79.93

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: 0800408.d
 Lab Smp Id: ABN 80
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090408.b/SW846.m
 Misc Info:

Calibration Date: 08-APR-2009
 Calibration Time: 17:00

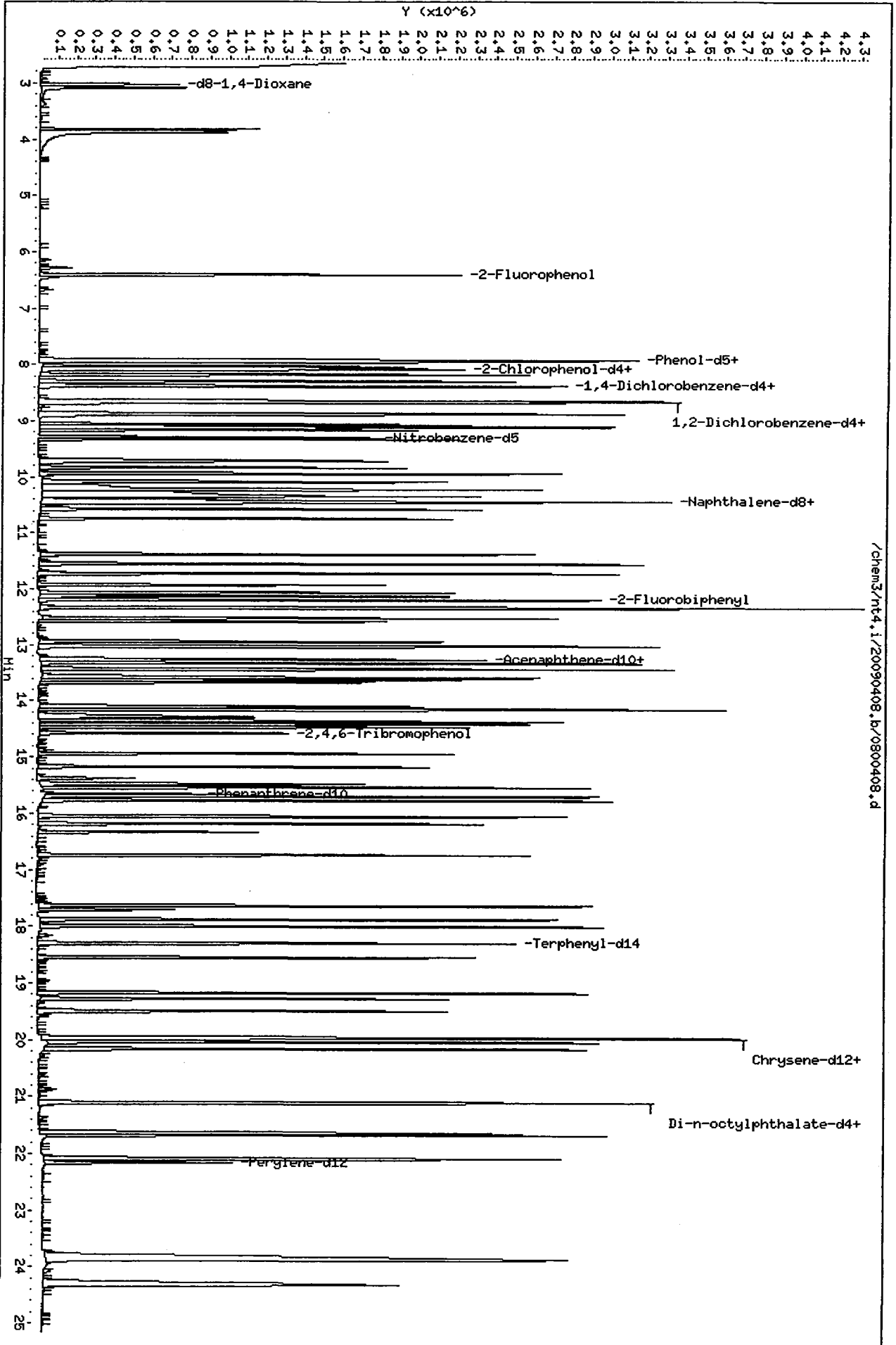
Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	178915	3.74
27 Naphthalene-d8	608124	304062	1216248	633883	4.24
42 Acenaphthene-d10	305977	152988	611954	307866	0.62
59 Phenanthrene-d10	428646	214323	857292	488770	14.03
69 Chrysene-d12	348476	174238	696952	393547	12.93
134 Di-n-octylphthala	674761	337380	1349522	708064	4.94
77 Perylene-d12	426588	213294	853176	503650	18.06

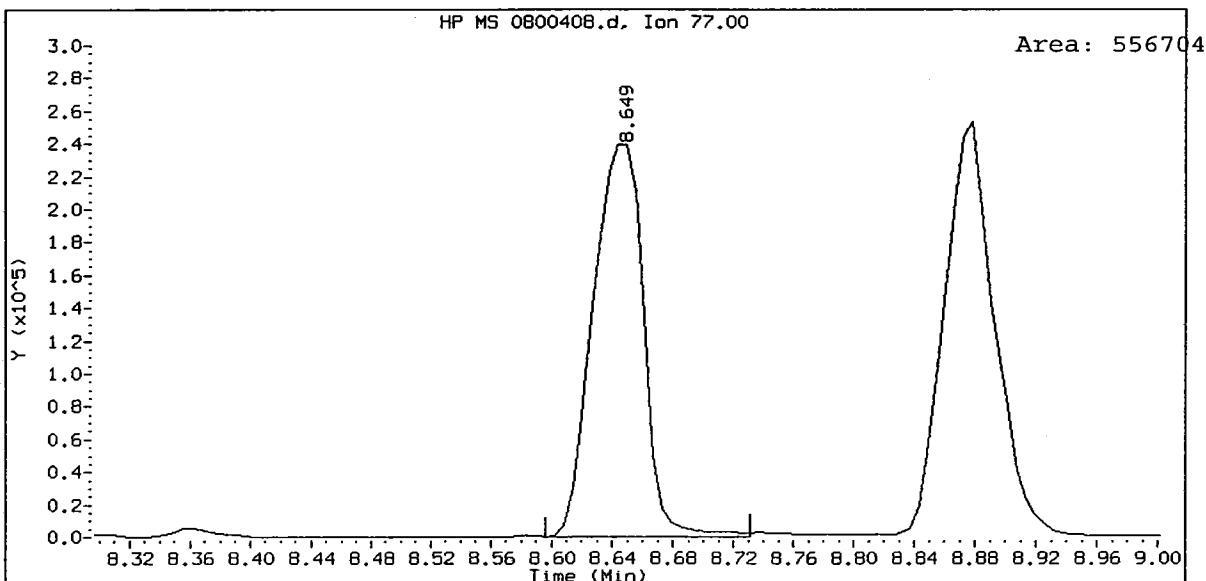
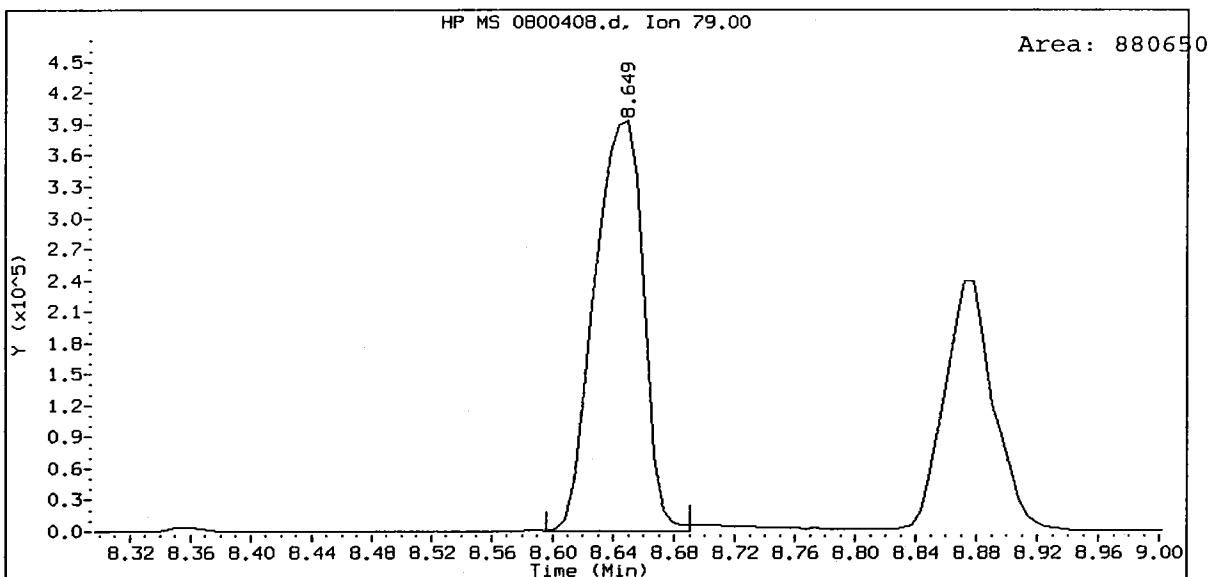
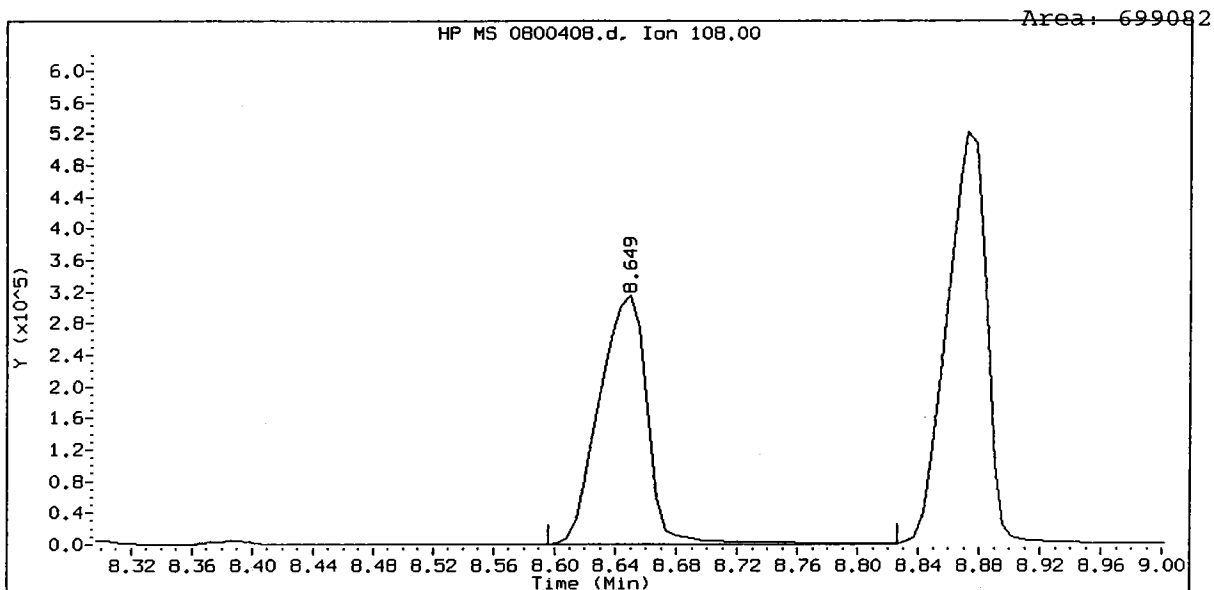
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.35	7.85	8.85	8.36	0.12
27 Naphthalene-d8	10.40	9.90	10.90	10.41	0.09
42 Acenaphthene-d10	13.26	12.76	13.76	13.27	0.07
59 Phenanthrene-d10	15.65	15.15	16.15	15.66	0.06
69 Chrysene-d12	19.98	19.48	20.48	20.00	0.08
134 Di-n-octylphthala	21.10	20.60	21.60	21.11	0.05
77 Perylene-d12	22.15	21.65	22.65	22.16	0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

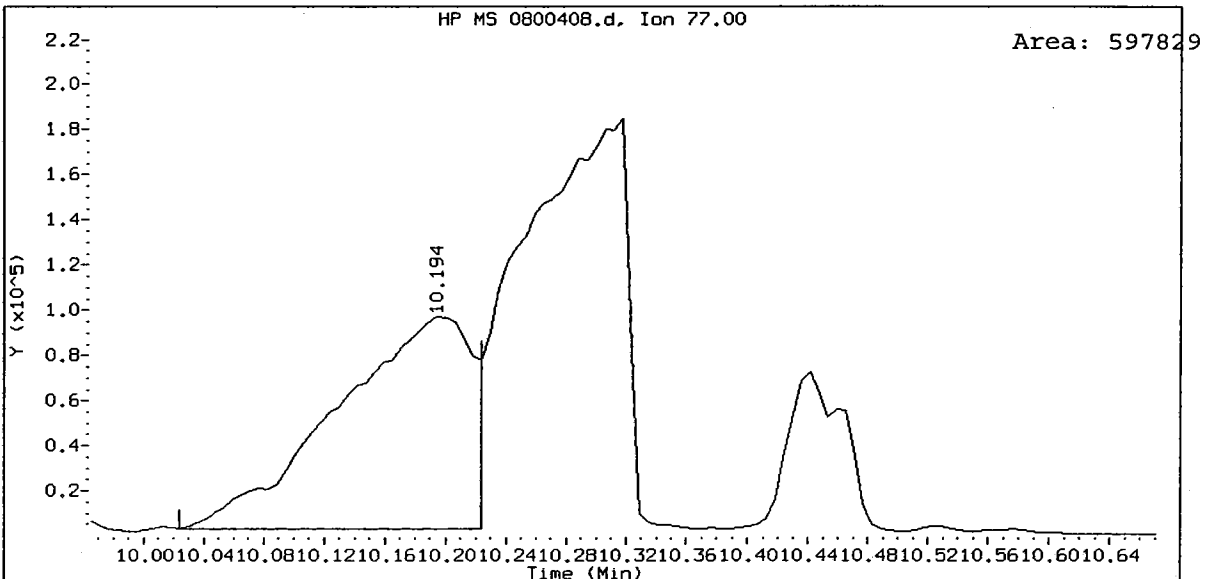
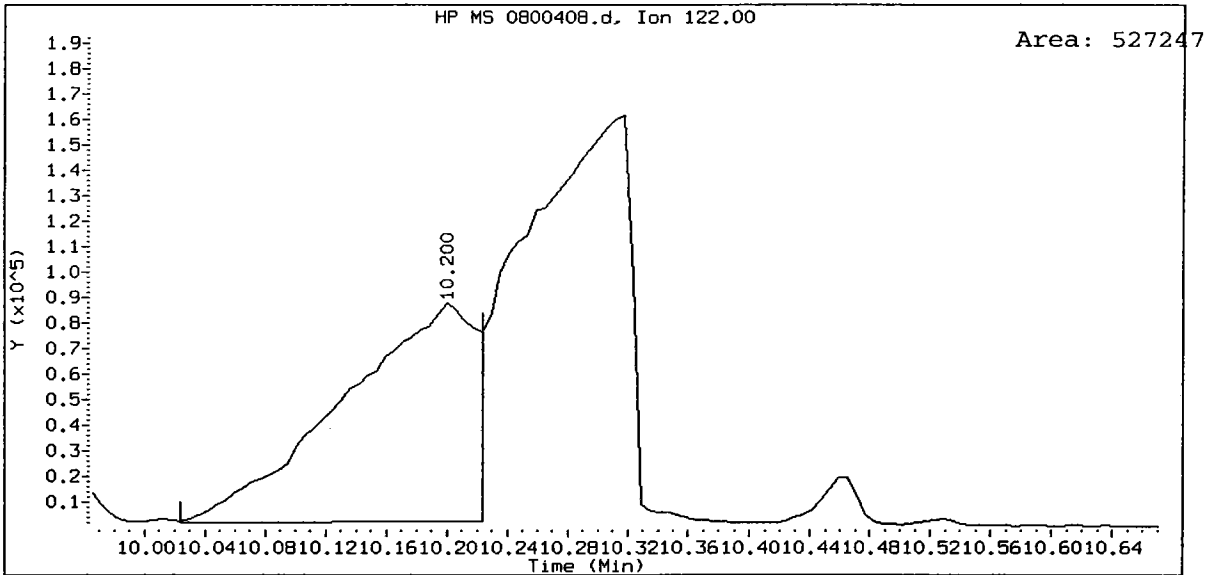
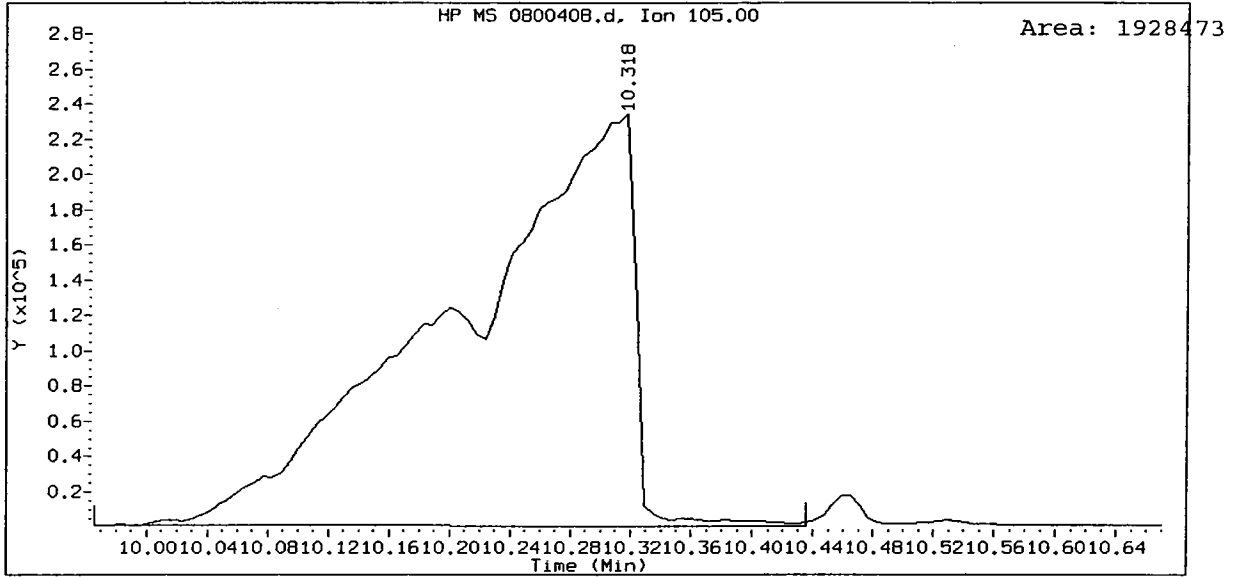


0456 : 00219

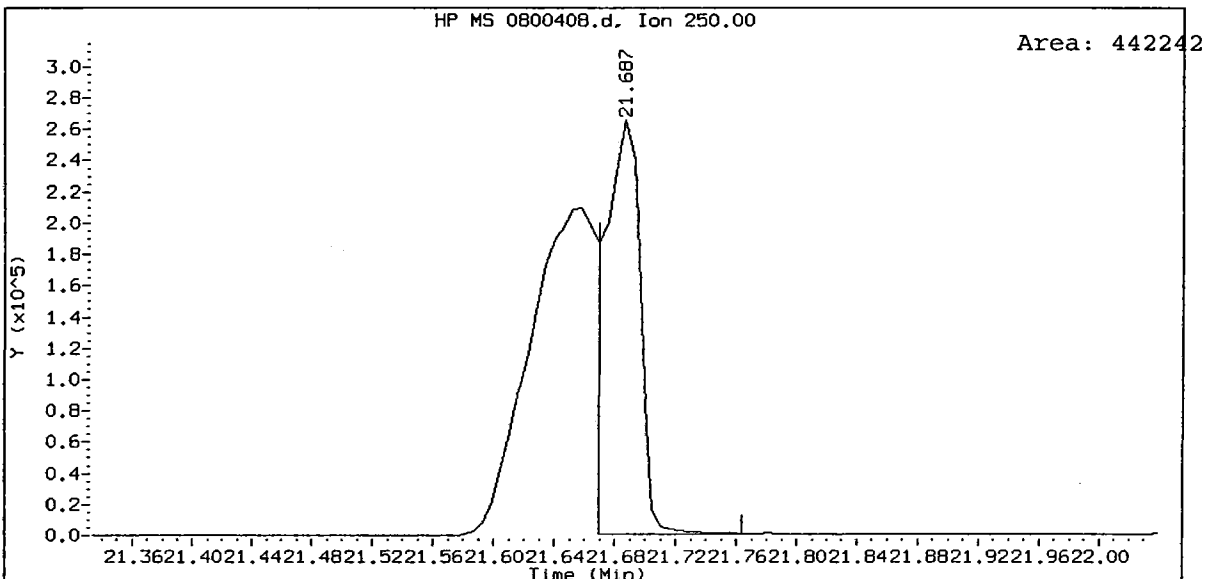
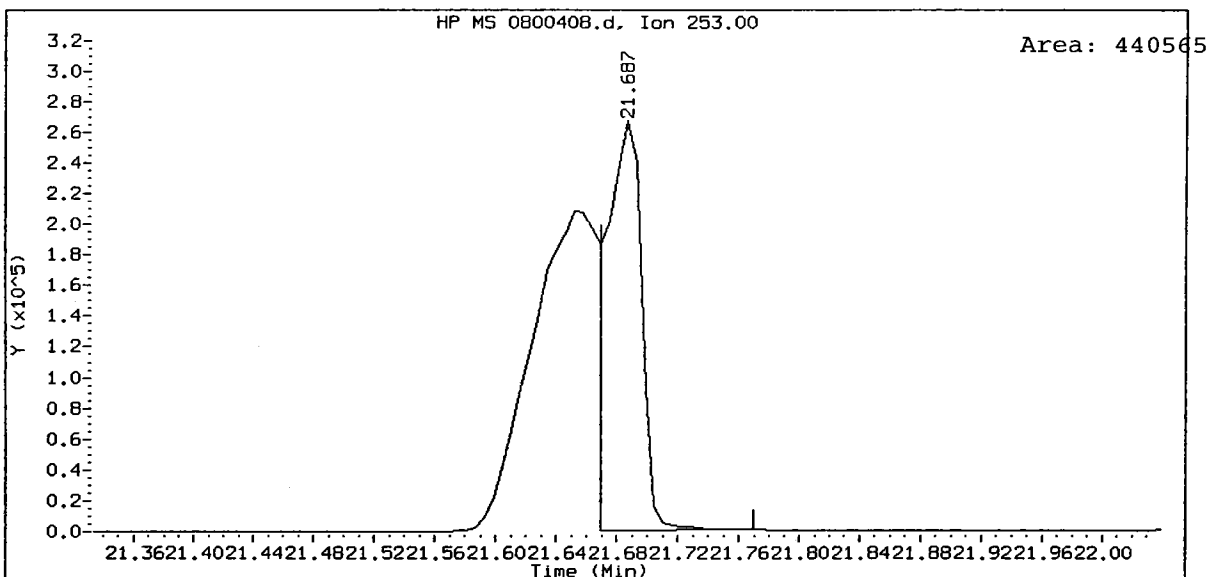
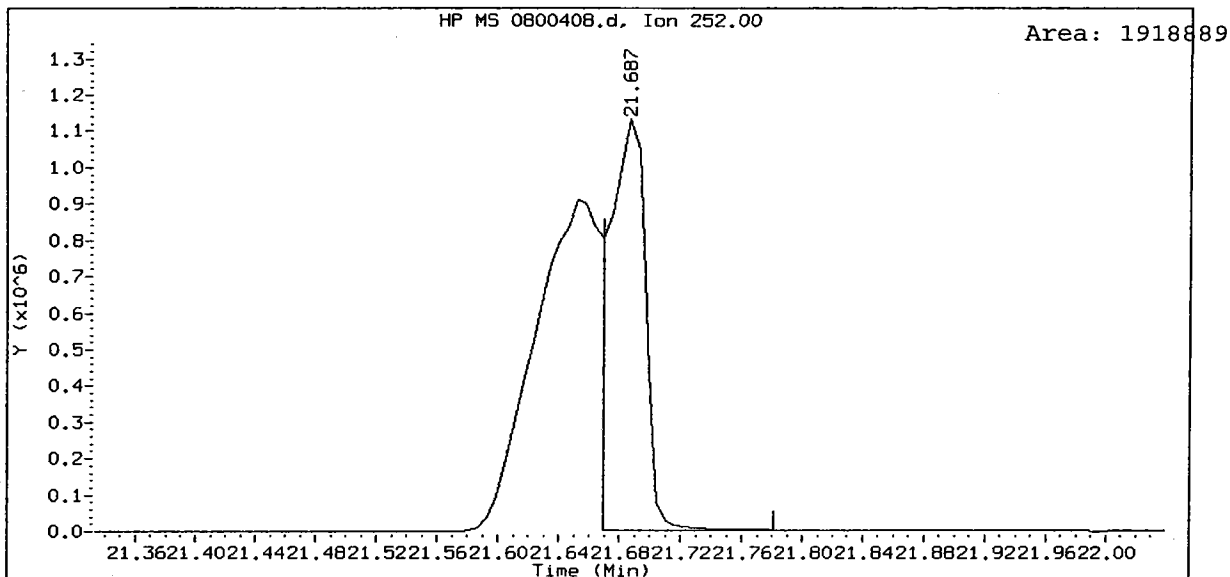
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Benzyl alcohol Amount: 67.56



ABN 80, /chem3/nt4.i/20090408.b/0800408.d
Benzoic acid Amount: 165.24



ABN 80, /chem3/nt4.i/20090408.b/0800408.d
Benzo(k)fluoranthene Amount: 55.30



Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090408.b/icv0408.d
 Lab Smp Id: ABN ICV
 Inj Date : 08-APR-2009 20:27
 Operator : LJR/VTB
 Smp Info : ABN ICV
 Misc Info :
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090408.b/SW846.m
 Meth Date : 09-Apr-2009 09:50 jeff
 Cal Date : 08-APR-2009 17:34
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt4.i
 Quant Type: ISTD
 Cal File: 0800408.d
 QC Sample: LCS
 Compound Sublist: ICV.sub

LJK
4/9/09

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
3 Phenol	94		7.923	7.956	(0.949)	656478	24.7855	24.79
4 Bis(2-Chloroethyl)ether	93		8.017	8.032	(0.960)	472096	23.8744	23.87
6 2-Chlorophenol	128		8.075	8.091	(0.967)	397704	24.9482	24.95
7 1,3-Dichlorobenzene	146		8.287	8.303	(0.992)	420557	24.5668	24.57
* 8 1,4-Dichlorobenzene-d4	152		8.352	8.361	(1.000)	205430	20.0000	
9 1,4-Dichlorobenzene	146		8.375	8.385	(1.003)	414504	24.5882	24.59
11 Benzyl alcohol	108		8.628	8.649	(1.033)	340283	28.6398	28.64
12 1,2-Dichlorobenzene	146		8.669	8.684	(1.038)	396396	24.9718	24.97
13 2-Methylphenol	108		8.857	8.872	(1.060)	407378	24.8170	24.82
14 2,2'-oxybis(1-Chloropropane)	45		8.880	8.890	(1.063)	489608	24.4813	24.48
15 4-Methylphenol	108		9.086	9.107	(1.088)	417312	24.6415	24.64
16 N-Nitroso-di-n-propylamine	70		9.104	9.137	(1.090)	321963	22.9897	22.99
17 Hexachloroethane	117		9.157	9.166	(1.096)	176021	24.6090	24.61
19 Nitrobenzene	77		9.309	9.331	(0.895)	509698	24.2782	24.28
20 Isophorone	82		9.685	9.719	(0.932)	828550	22.2658	22.27
21 2-Nitrophenol	139		9.820	9.836	(0.945)	215228	25.4866	25.49
22 2,4-Dimethylphenol	107		9.920	9.942	(0.954)	430422	24.8435	24.84
23 Bis(2-Chloroethoxy)methane	93		10.073	10.089	(0.969)	526776	23.8912	23.89
24 Benzoic acid	105		10.197	10.318	(0.981)	734808	54.7139	54.71(M)
25 2,4-Dichlorophenol	162		10.208	10.224	(0.982)	293449	25.2311	25.23
26 1,2,4-Trichlorobenzene	180		10.338	10.347	(0.994)	297909	24.5904	24.59
* 27 Naphthalene-d8	136		10.396	10.406	(1.000)	729446	20.0000	
28 Naphthalene	128		10.426	10.441	(1.003)	996909	24.3452	24.35
29 4-Chloroaniline	127		10.567	10.582	(1.016)	438444	24.2514	24.25
30 Hexachlorobutadiene	225		10.737	10.741	(1.033)	156864	25.3403	25.34
31 4-Chloro-3-methylphenol	107		11.366	11.381	(1.093)	372719	25.8366	25.84
32 2-Methylnaphthalene	141		11.548	11.558	(1.111)	558206	24.2398	24.24

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
33 Hexachlorocyclopentadiene	237	11.924	11.928	(0.899)	150311	26.2346	26.23
34 2,4,6-Trichlorophenol	196	12.059	12.075	(0.909)	188451	24.8731	24.87
35 2,4,5-Trichlorophenol	196	12.118	12.133	(0.914)	198312	25.5173	25.52
37 2-Chloronaphthalene	162	12.329	12.351	(0.930)	611548	26.0207	26.02
38 2-Nitroaniline	65	12.564	12.580	(0.947)	251764	25.1276	25.13
39 Dimethylphthalate	163	12.929	12.950	(0.975)	667855	24.2418	24.24
40 Acenaphthylene	152	13.011	13.021	(0.981)	930407	22.9171	22.92
41 2,6-Dinitrotoluene	165	13.028	13.044	(0.982)	153874	24.8108	24.81
* 42 Acenaphthene-d10	164	13.264	13.273	(1.000)	376670	20.0000	
43 3-Nitroaniline	138	13.240	13.267	(0.998)	188190	25.1035	25.10
44 Acenaphthene	153	13.316	13.332	(1.004)	604429	24.5390	24.54
45 2,4-Dinitrophenol	184	13.410	13.438	(1.011)	174215	58.3640	58.36
46 Dibenzofuran	168	13.581	13.596	(1.024)	799150	23.6860	23.69
47 4-Nitrophenol	109	13.540	13.567	(1.021)	105481	26.3521	26.35
48 2,4-Dinitrotoluene	165	13.657	13.679	(1.030)	204860	25.1123	25.11
49 Fluorene	166	14.139	14.149	(1.066)	666305	24.7384	24.74
50 Diethylphthalate	149	14.086	14.102	(1.062)	686210	24.7351	24.74
51 4-Chlorophenyl-phenylether	204	14.157	14.166	(1.067)	272860	24.0533	24.05
52 4-Nitroaniline	138	14.251	14.290	(1.074)	181038	24.9183	24.92
53 4,6-Dinitro-2-methylphenol	198	14.321	14.354	(0.915)	230354	57.8468	57.85
54 N-Nitrosodiphenylamine	169	14.362	14.384	(0.918)	337537	17.7220	17.72
56 4-Bromophenyl-phenylether	248	14.938	14.948	(0.955)	164016	24.6624	24.66
57 Hexachlorobenzene	284	15.167	15.177	(0.969)	164956	24.5703	24.57
58 Pentachlorophenol	266	15.461	15.482	(0.988)	104679	26.3668	26.37
* 59 Phenanthrene-d10	188	15.649	15.659	(1.000)	538990	20.0000	
60 Phenanthrene	178	15.690	15.700	(1.003)	871735	24.7802	24.78
61 Anthracene	178	15.761	15.776	(1.007)	862782	23.8109	23.81
62 Carbazole	167	16.043	16.058	(1.025)	781594	23.5574	23.56
63 Di-n-butylphthalate	149	16.742	16.746	(1.070)	1047542	24.1688	24.17
64 Fluoranthene	202	17.635	17.645	(1.127)	846274	24.3530	24.35
65 Pyrene	202	17.993	18.009	(0.900)	864092	25.5996	25.60
67 Butylbenzylphthalate	149	19.168	19.184	(0.959)	456684	25.2170	25.22
68 Benzo(a)anthracene	228	19.956	19.971	(0.999)	749282	25.0543	25.05
* 69 Chrysene-d12	240	19.985	20.001	(1.000)	420663	20.0000	
70 3,3'-Dichlorobenzidine	252	19.956	19.977	(0.999)	273453	25.0659	25.07
71 Chrysene	228	20.026	20.048	(1.002)	727483	24.6965	24.70
72 bis(2-Ethylhexyl)phthalate	149	20.155	20.165	(0.956)	627067	25.1030	25.10
* 134 Di-n-octylphthalate-d4	153	21.090	21.105	(1.000)	787964	20.0000	
73 Di-n-octylphthalate	149	21.101	21.117	(1.001)	1047410	23.6975	23.70
74 Benzo(b)fluoranthene	252	21.624	21.652	(0.976)	822389	22.7860	22.79 (H)
75 Benzo(k)fluoranthene	252	21.654	21.687	(0.977)	882437	25.4429	25.44
76 Benzo(a)pyrene	252	22.071	22.098	(0.996)	778369	23.7670	23.77
* 77 Perylene-d12	264	22.153	22.163	(1.000)	503381	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.804	23.849	(1.075)	1007595	24.7388	24.74
79 Dibenzo(a,h)anthracene	278	23.822	23.878	(1.075)	829159	24.6816	24.68
80 Benzo(g,h,i)perylene	276	24.262	24.331	(1.095)	891223	24.7167	24.72
103 Pyridine	79	3.828	3.825	(0.458)	475648	20.9229	20.92

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
90 N-Nitrosodimethylamine	74	3.863	3.890	(0.463)	321635	24.1527	24.15
91 Aniline	93	7.905	7.921	(0.947)	720625	24.3738	24.37
105 1-methylnaphthalene	141	11.718	11.734	(1.127)	553777	25.1350	25.14
111 Azobenzene (1,2-DP-Hydrazine)	77	14.409	14.425	(1.086)	855609	23.1084	23.11
93 Benzidine	184	17.870	17.885	(0.894)	250288	19.1494	19.15

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: icv0408.d
 Lab Smp Id: ABN ICV
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090408.b/SW846.m
 Misc Info:

Calibration Date: 08-APR-2009
 Calibration Time: 17:00

Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	205430	19.12
27 Naphthalene-d8	608124	304062	1216248	729446	19.95
42 Acenaphthene-d10	305977	152988	611954	376670	23.10
59 Phenanthrene-d10	428646	214323	857292	538990	25.74
69 Chrysene-d12	348476	174238	696952	420663	20.72
134 Di-n-octylphthala	674761	337380	1349522	787964	16.78
77 Perylene-d12	426588	213294	853176	503381	18.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.35	7.85	8.85	8.35	0.00
27 Naphthalene-d8	10.40	9.90	10.90	10.40	0.00
42 Acenaphthene-d10	13.26	12.76	13.76	13.26	0.00
59 Phenanthrene-d10	15.65	15.15	16.15	15.65	0.00
69 Chrysene-d12	19.98	19.48	20.48	19.99	0.00
134 Di-n-octylphthala	21.10	20.60	21.60	21.09	-0.03
77 Perylene-d12	22.15	21.65	22.65	22.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

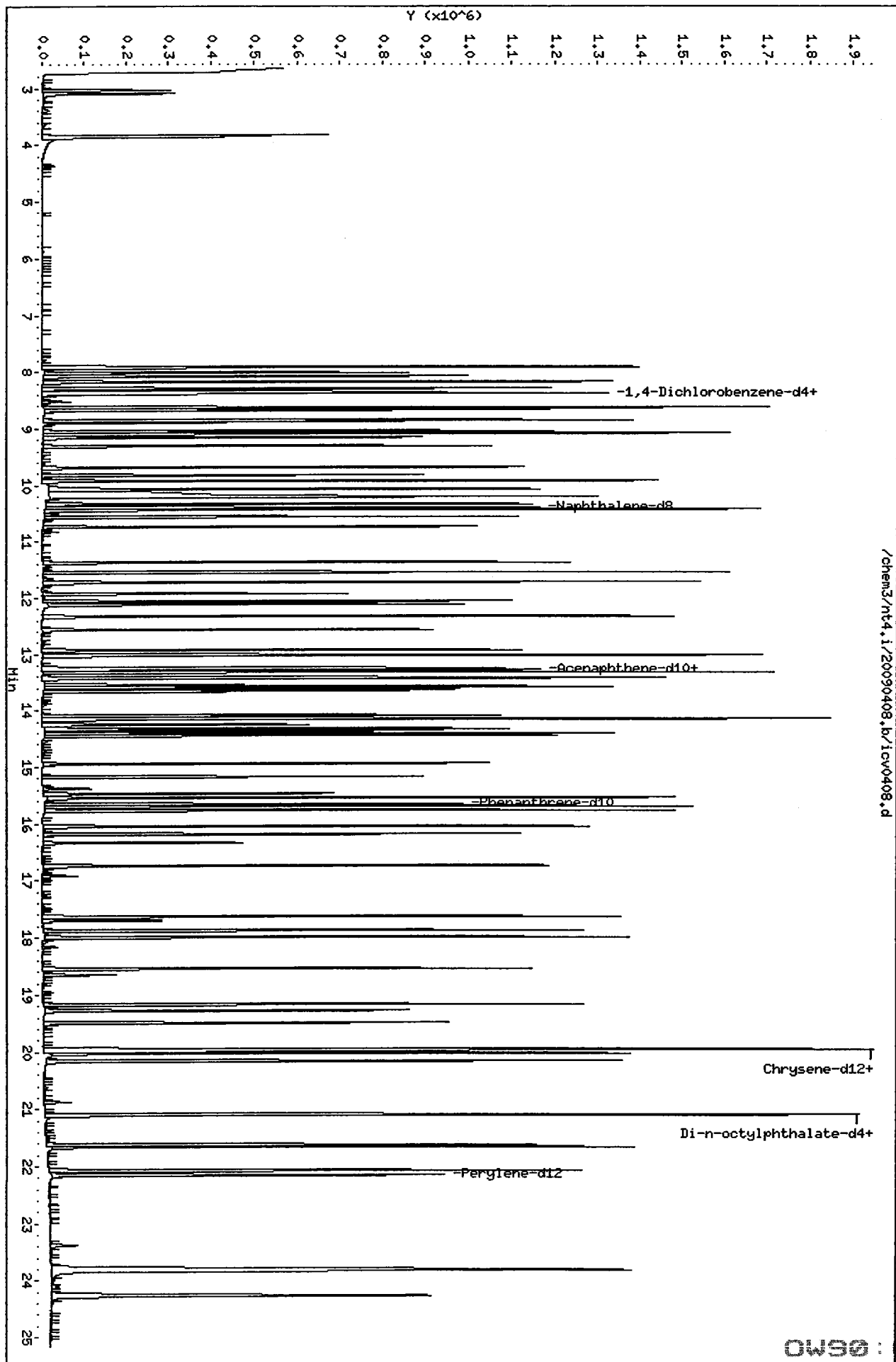
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 Sample Matrix: NONE Fraction: SV
 Lab Smp Id: ABN ICV
 Level: Operator: LJR/VTS
 Data Type: MS DATA SampleType: LCS
 SpikeList File: ICV.spk Quant Type: ISTD
 Sublist File: ICV.sub
 Method File: /chem3/nt4.i/20090408.b/SW846.m
 Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3 Phenol	25.00	24.79	99.14	
4 Bis(2-Chloroethyl)	25.00	23.87	95.50	
6 2-Chlorophenol	25.00	24.95	99.79	
7 1,3-Dichlorobenzen	25.00	24.57	98.27	
9 1,4-Dichlorobenzen	25.00	24.59	98.35	
11 Benzyl alcohol	25.00	28.64	114.56	
12 1,2-Dichlorobenzen	25.00	24.97	99.89	
13 2-Methylphenol	25.00	24.82	99.27	
14 2,2'-oxybis(1-Chlo	25.00	24.48	97.93	
15 4-Methylphenol	25.00	24.64	98.57	
16 N-Nitroso-di-n-pro	25.00	22.99	91.96	
17 Hexachloroethane	25.00	24.61	98.44	
19 Nitrobenzene	25.00	24.28	97.11	
20 Isophorone	25.00	22.27	89.06	
21 2-Nitrophenol	25.00	25.49	101.95	
22 2,4-Dimethylphenol	25.00	24.84	99.37	
23 Bis(2-Chloroethoxy	25.00	23.89	95.56	OK
24 Benzoic acid	50.00	54.71	109.43	
25 2,4-Dichlorophenol	25.00	25.23	100.92	
26 1,2,4-Trichloroben	25.00	24.59	98.36	
28 Naphthalene	25.00	24.35	97.38	
29 4-Chloroaniline	25.00	24.25	97.01	
30 Hexachlorobutadien	25.00	25.34	101.36	
31 4-Chloro-3-methylp	25.00	25.84	103.35	
32 2-Methylnaphthalen	25.00	24.24	96.96	
33 Hexachlorocyclopen	25.00	26.23	104.94	
34 2,4,6-Trichlorophe	25.00	24.87	99.49	
35 2,4,5-Trichlorophe	25.00	25.52	102.07	
37 2-Chloronaphthalen	25.00	26.02	104.08	
38 2-Nitroaniline	25.00	25.13	100.51	
39 Dimethylphthalate	25.00	24.24	96.97	
40 Acenaphthylene	25.00	22.92	91.67	
41 2,6-Dinitrotoluene	25.00	24.81	99.24	

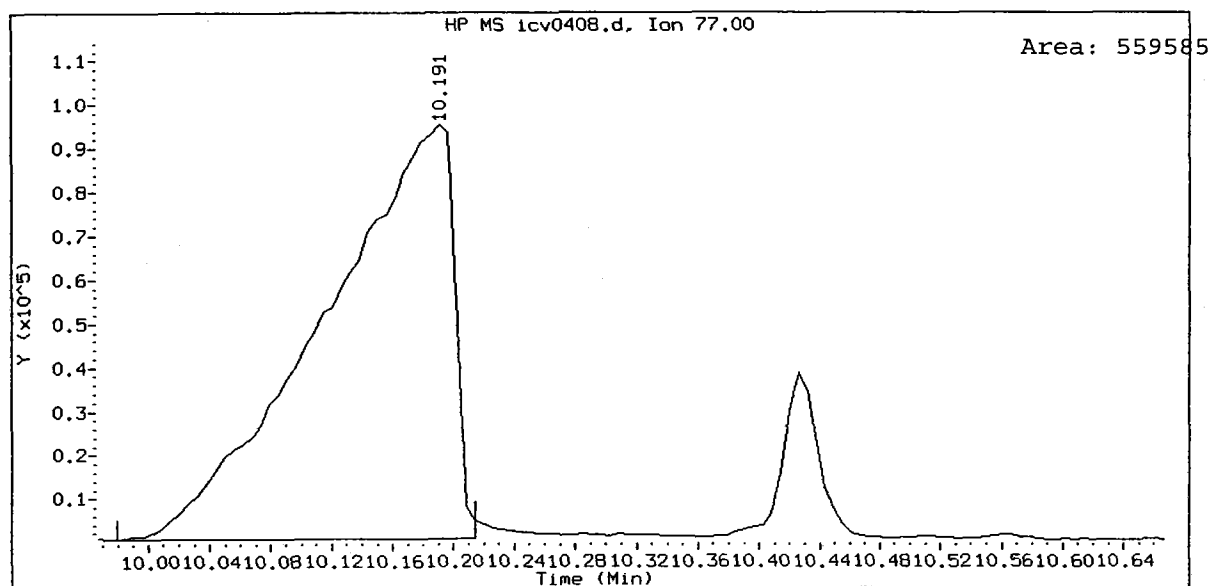
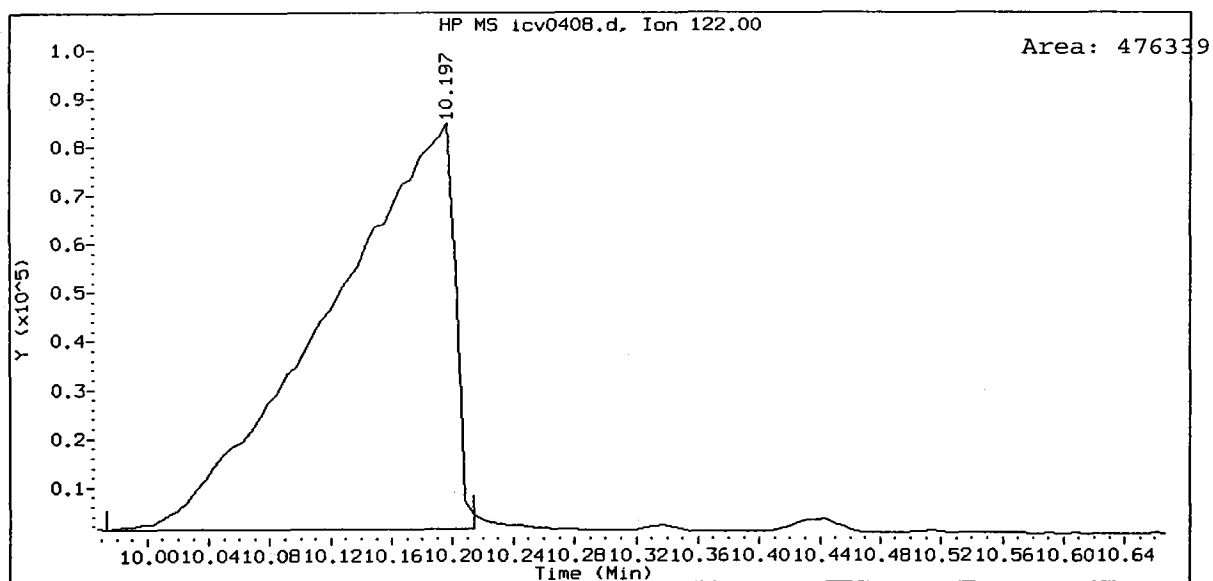
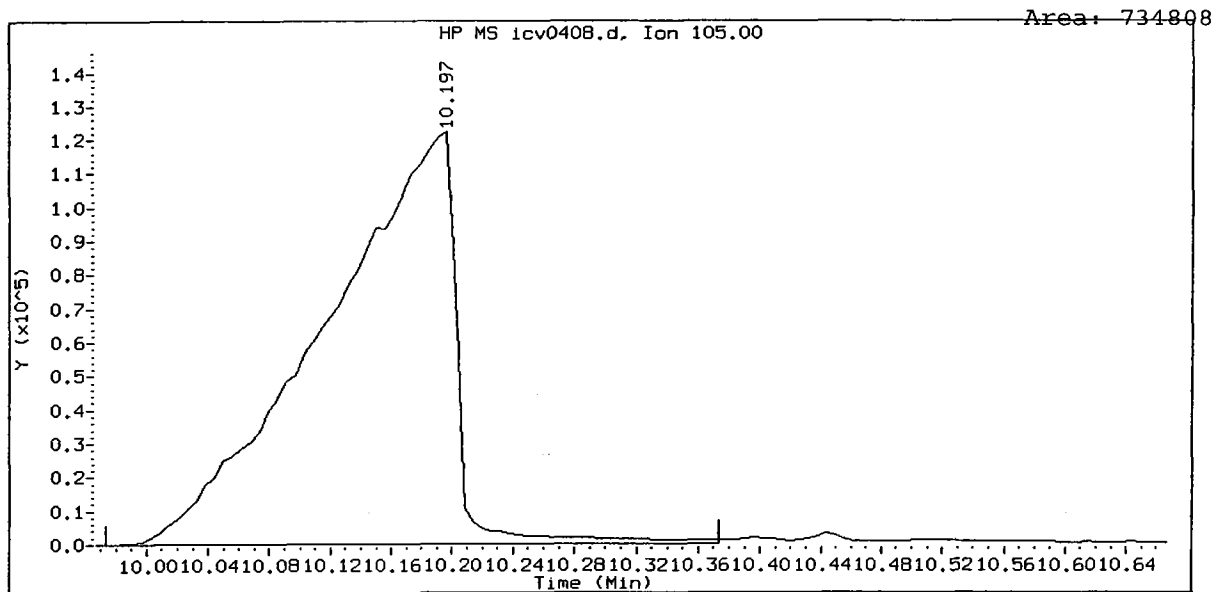
SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43 3-Nitroaniline	25.00	25.10	100.41	
44 Acenaphthene	25.00	24.54	98.16	
45 2,4-Dinitrophenol	50.00	58.36	116.73	
46 Dibenzofuran	25.00	23.69	94.74	
47 4-Nitrophenol	25.00	26.35	105.41	
48 2,4-Dinitrotoluene	25.00	25.11	100.45	
49 Fluorene	25.00	24.74	98.95	
50 Diethylphthalate	25.00	24.74	98.94	
51 4-Chlorophenyl-phe	25.00	24.05	96.21	
52 4-Nitroaniline	25.00	24.92	99.67	
53 4,6-Dinitro-2-meth	50.00	57.85	115.69	
54 N-Nitrosodiphenyla	25.00	17.72	70.89	
56 4-Bromophenyl-phen	25.00	24.66	98.65	
57 Hexachlorobenzene	25.00	24.57	98.28	
58 Pentachlorophenol	25.00	26.37	105.47	
60 Phenanthrene	25.00	24.78	99.12	
61 Anthracene	25.00	23.81	95.24	
62 Carbazole	25.00	23.56	94.23	
63 Di-n-butylphthalat	25.00	24.17	96.68	
64 Fluoranthene	25.00	24.35	97.41	
65 Pyrene	25.00	25.60	102.40	
67 Butylbenzylphthala	25.00	25.22	100.87	
68 Benzo(a)anthracene	25.00	25.05	100.22	
70 3,3'-Dichlorobenzi	25.00	25.07	100.26	
71 Chrysene	25.00	24.70	98.79	
72 bis(2-Ethylhexyl)p	25.00	25.10	100.41	
73 Di-n-octylphthalat	25.00	23.70	94.79	
74 Benzo(b)fluoranthene	25.00	22.79	91.14	
75 Benzo(k)fluoranthene	25.00	25.44	101.77	
76 Benzo(a)pyrene	25.00	23.77	95.07	
78 Indeno(1,2,3-cd)py	25.00	24.74	98.96	
79 Dibenzo(a,h)anthra	25.00	24.68	98.73	
80 Benzo(g,h,i)perylene	25.00	24.72	98.87	
90 N-Nitrosodimethyla	25.00	24.15	96.61	
91 Aniline	25.00	24.37	97.50	
93 Benzidine	25.00	19.15	76.60	
103 Pyridine	25.00	20.92	83.69	
105 1-methylnaphthalen	25.00	25.14	100.54	

OK

/chem3/nt4.1/20090408.b/1cv0408.d

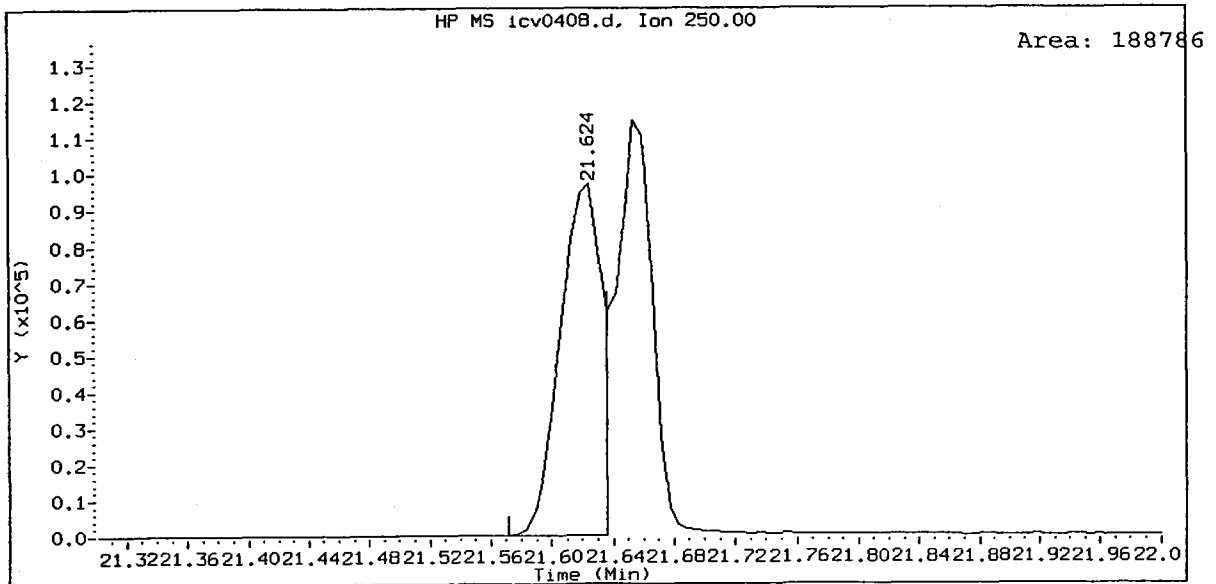
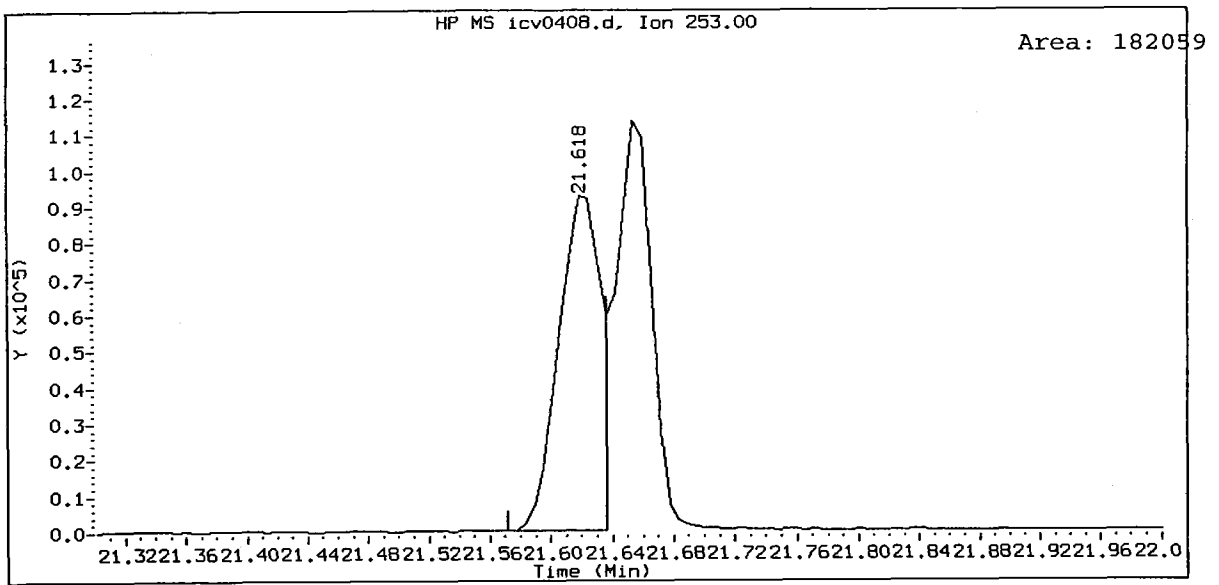
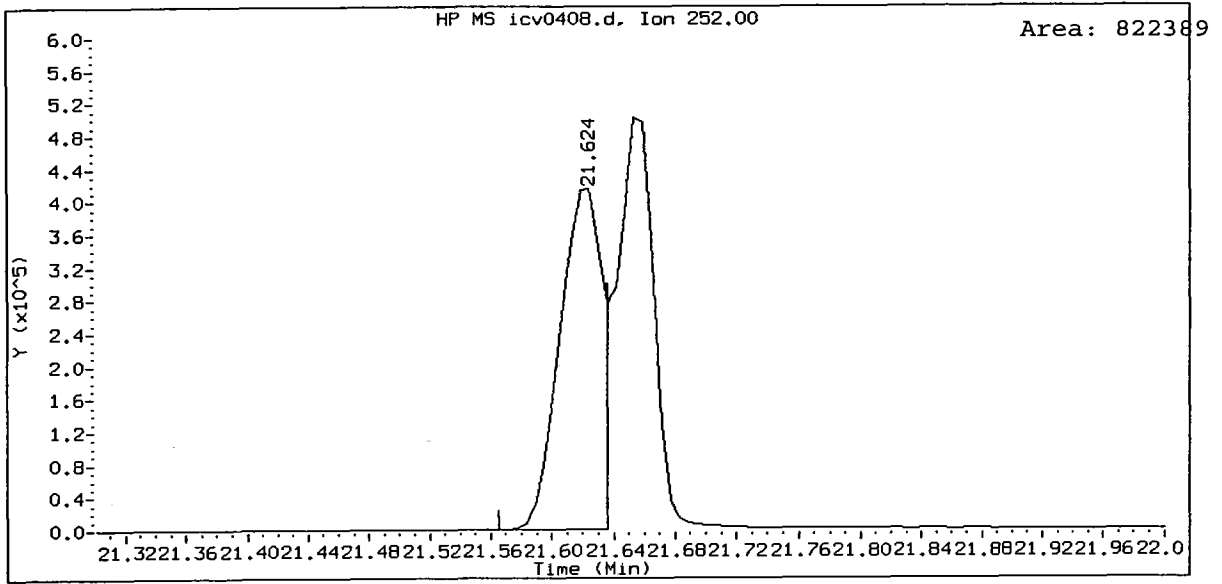


ABN ICV, /chem3/nt4.i/20090408.b/icv0408.d
Benzoic acid Amount: 54.71



0W90 : 00230

ABN ICV, /chem3/nt4.i/20090408.b/icv0408.d
Benzo(b)fluoranthene Amount: 22.79



SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No: OW90

Project: FORMER CUSTOM PLYWOO

Instrument ID: NT4

Cont. Calib. Date: 05/06/09

Init. Calib. Date: 04/08/09

Cont. Calib. Time: 1454

COMPOUND	RRF	RRF25	MIN RRF	CURVE TYPE	%D or Drift
Phenol	2.578	2.142	0.800	AVRG	16.9
Bis(2-Chloroethyl)ether	1.925	1.613	0.700	AVRG	16.2
2-Chlorophenol	1.552	1.460	0.800	AVRG	5.9
1,3-Dichlorobenzene	1.666	1.564	0.010	AVRG	6.1
1,4-Dichlorobenzene	1.641	1.522	0.010	AVRG	7.2
1,2-Dichlorobenzene	1.546	1.513	0.010	AVRG	2.1
Benzyl alcohol	1.157	1.053	0.010	AVRG	9.0
2,2'-oxybis(1-Chloropropane)	2.019	1.704	0.010	2ORDR	15.6
2-Methylphenol	1.598	1.493	0.700	AVRG	6.6
Hexachloroethane	0.696	0.677	0.300	AVRG	2.7
N-Nitroso-di-n-propylamine	1.364	1.099	0.500	AVRG	19.4
4-Methylphenol	1.649	1.514	0.600	AVRG	8.2
Nitrobenzene	0.576	0.500	0.200	AVRG	13.2
Isophorone	1.020	0.856	0.400	AVRG	16.1
2-Nitrophenol	0.231	0.238	0.100	AVRG	-3.0
2,4-Dimethylphenol	0.475	0.437	0.200	AVRG	8.0
Bis(2-Chloroethoxy)methane	0.605	0.542	0.300	AVRG	10.4
2,4-Dichlorophenol	0.319	0.334	0.200	AVRG	-4.7
1,2,4-Trichlorobenzene	0.332	0.362	0.010	AVRG	-9.0
Naphthalene	1.123	1.094	0.700	AVRG	2.6
Benzoic acid	0.368	0.294	0.010	AVRG	20.1
4-Chloroaniline	0.496	0.486	0.010	AVRG	2.0
Hexachlorobutadiene	0.170	0.171	0.010	AVRG	-0.6
4-Chloro-3-methylphenol	0.395	0.337	0.200	AVRG	14.7
2-Methylnaphthalene	0.631	0.600	0.400	AVRG	4.9
Hexachlorocyclopentadiene	0.304	0.335	0.050	AVRG	-10.2
2,4,6-Trichlorophenol	0.402	0.437	0.200	AVRG	-8.7
2,4,5-Trichlorophenol	0.412	0.450	0.200	AVRG	-9.2
2-Chloronaphthalene	1.248	1.284	0.800	AVRG	-2.9
2-Nitroaniline	0.532	0.444	0.010	AVRG	16.5
Acenaphthylene	2.156	2.061	0.900	AVRG	4.4
Dimethylphthalate	1.463	1.305	0.010	AVRG	10.8
2,6-Dinitrotoluene	0.329	0.312	0.200	AVRG	5.2
Acenaphthene	1.308	1.185	0.900	AVRG	9.4
3-Nitroaniline	0.398	0.360	0.010	AVRG	9.5
2,4-Dinitrophenol	0.138	0.165	0.010	LINR	-19.6
Dibenzofuran	1.791	1.620	0.800	AVRG	9.5

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No: OW90

Project: FORMER CUSTOM PLYWOO

Instrument ID: NT4

Cont. Calib. Date: 05/06/09

Init. Calib. Date: 04/08/09

Cont. Calib. Time: 1454

COMPOUND	RRF	RRF25	MIN RRF	CURVE TYPE	%D or Drift
4-Nitrophenol	0.212	0.191	0.010	AVRG	9.9
2,4-Dinitrotoluene	0.433	0.390	0.200	AVRG	9.9
Fluorene	1.430	1.325	0.900	AVRG	7.3
4-Chlorophenyl-phenylether	0.602	0.600	0.400	AVRG	0.3
Diethylphthalate	1.473	1.232	0.010	AVRG	16.4
4-Nitroaniline	0.386	0.346	0.010	AVRG	10.4
4,6-Dinitro-2-methylphenol	0.148	0.154	0.010	AVRG	-4.0
N-Nitrosodiphenylamine (1)	0.707	0.614	0.010	AVRG	13.2
4-Bromophenyl-phenylether	0.247	0.220	0.100	AVRG	10.9
Hexachlorobenzene	0.249	0.237	0.100	AVRG	4.8
Pentachlorophenol	0.147	0.125	0.050	AVRG	15.0
Phenanthrene	1.305	1.258	0.700	AVRG	3.6
Anthracene	1.344	1.264	0.700	AVRG	6.0
Carbazole	1.231	1.041	0.010	AVRG	15.4
Di-n-butylphthalate	1.608	1.375	0.010	AVRG	14.5
Fluoranthene	1.289	1.165	0.600	AVRG	9.6
Pyrene	1.605	1.762	0.600	AVRG	-9.8
Butylbenzylphthalate	0.861	0.830	0.010	AVRG	3.6
Benzo(a)anthracene	1.422	1.406	0.800	AVRG	1.1
3,3'-Dichlorobenzidine	0.519	0.521	0.010	AVRG	-0.4
Chrysene	1.400	1.338	0.700	AVRG	4.4
bis(2-Ethylhexyl)phthalate	0.634	0.638	0.010	AVRG	-0.6
Di-n-octylphthalate	1.122	1.083	0.010	AVRG	3.5
Benzo(b)fluoranthene	1.434	1.360	0.700	AVRG	5.2
Benzo(k)fluoranthene	1.378	1.306	0.700	AVRG	5.2
Benzo(a)pyrene	1.301	1.233	0.700	AVRG	5.2
Indeno(1,2,3-cd)pyrene	1.618	1.472	0.500	AVRG	9.0
Dibenzo(a,h)anthracene	1.335	1.442	0.400	AVRG	-8.0
Benzo(g,h,i)perylene	1.432	1.559	0.500	AVRG	-8.9
N-Nitrosodimethylamine	1.296	1.011	0.010	AVRG	22.0
Aniline	2.878	2.632	0.010	AVRG	8.5
Benzidine	0.621	0.588	0.010	AVRG	5.3
Pyridine	2.213	1.792	0.010	AVRG	19.0
1-methylnaphthalene	0.604	0.556	0.010	AVRG	7.9
Azobenzene (1,2-DP-Hydrazine	1.966	1.726	0.010	AVRG	12.2

(1) Cannot be separated from Diphenylamine

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No: OW90

Project: FORMER CUSTOM PLYWOO

Instrument ID: NT4

Cont. Calib. Date: 05/06/09

Init. Calib. Date: 04/08/09

Cont. Calib. Time: 1454

COMPOUND	RRF	RRF25	MIN RRF	CURVE TYPE	%D or Drift
2-Fluorophenol	1.634	1.520	0.010	AVRG	7.0
Phenol-d5	2.182	2.049	0.010	AVRG	6.1
2-Chlorophenol-d4	1.310	1.277	0.010	AVRG	2.5
1,2-Dichlorobenzene-d4	0.928	0.932	0.010	AVRG	-0.4
Nitrobenzene-d5	0.548	0.478	0.010	AVRG	12.8
2-Fluorobiphenyl	1.478	1.444	0.010	AVRG	2.3
2,4,6-Tribromophenol	0.172	0.172	0.010	AVRG	0.0
Terphenyl-d14	0.974	0.990	0.010	AVRG	-1.6

<- Exceeds QC limit of 20% D
 * RF less than minimum RF

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 06-MAY-2009 14:54
 Lab File ID: cc0506.d Init. Cal. Date(s): 08-APR-2009 13-APR-2009
 Analysis Type: Init. Cal. Times: 17:00 15:20
 Lab Sample ID: ABN 25 Quant Type: ISTD
 Method: /chem3/nt4.i/20090506.b/SW846.m

COMPOUND	RF25		CCAL	MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF25	RRF25	RRF	%D / %DRIFT	%D / %DRIFT		
\$ 1 2-Fluorophenol	1.63444	1.52058	1.52058	0.010	-6.96612	20.00000	Averaged	
\$ 2 Phenol-d5	2.18244	2.04862	2.04862	0.010	-6.13182	20.00000	Averaged	
3 Phenol	2.57863	2.14203	2.14203	0.800	-16.93130	20.00000	Averaged	
\$ 5 2-Chlorophenol-d4	1.30996	1.27736	1.27736	0.010	-2.48898	20.00000	Averaged	
4 Bis(2-Chloroethyl)ether	1.92514	1.61336	1.61336	0.700	-16.19531	20.00000	Averaged	
6 2-Chlorophenol	1.55198	1.46037	1.46037	0.800	-5.90295	20.00000	Averaged	
7 1,3-Dichlorobenzene	1.66664	1.56423	1.56423	0.010	-6.14476	20.00000	Averaged	
9 1,4-Dichlorobenzene	1.64122	1.52169	1.52169	0.010	-7.28304	20.00000	Averaged	
\$ 10 1,2-Dichlorobenzene-d4	0.92833	0.93219	0.93219	0.010	0.41617	20.00000	Averaged	
12 1,2-Dichlorobenzene	1.54542	1.51330	1.51330	0.010	-2.07815	20.00000	Averaged	
11 Benzyl alcohol	1.15674	1.05350	1.05350	0.010	-8.92544	20.00000	Averaged	
14 2,2'-oxybis(1-Chloropropane	21.12776	25.00000	1.70421	0.010	-15.48897	20.00000	Quadratic	
13 2-Methylphenol	1.59814	1.49345	1.49345	0.700	-6.55036	20.00000	Averaged	
17 Hexachloroethane	0.69636	0.67710	0.67710	0.300	-2.76675	20.00000	Averaged	
16 N-Nitroso-di-n-propylamine	1.36345	1.09867	1.09867	0.500	-19.41996	20.00000	Averaged	
15 4-Methylphenol	1.64877	1.51394	1.51394	0.600	-8.17715	20.00000	Averaged	
\$ 18 Nitrobenzene-d5	0.54815	0.47790	0.47790	0.010	-12.81600	20.00000	Averaged	
19 Nitrobenzene	0.57562	0.50041	0.50041	0.200	-13.06452	20.00000	Averaged	
20 Isophorone	1.02028	0.85567	0.85567	0.400	-16.13319	20.00000	Averaged	
21 2-Nitrophenol	0.23154	0.23819	0.23819	0.100	2.87303	20.00000	Averaged	
22 2,4-Dimethylphenol	0.47503	0.43726	0.43726	0.200	-7.95131	20.00000	Averaged	
23 Bis(2-Chloroethoxy)methane	0.60454	0.54179	0.54179	0.300	-10.37931	20.00000	Averaged	
24 Benzoic acid	0.36822	0.29403	0.29403	0.010	-20.14966	20.00000	Averaged	
25 2,4-Dichlorophenol	0.31888	0.33395	0.33395	0.200	4.72491	20.00000	Averaged	
26 1,2,4-Trichlorobenzene	0.33217	0.36152	0.36152	0.010	8.83779	20.00000	Averaged	
28 Naphthalene	1.12274	1.09405	1.09405	0.700	-2.55541	20.00000	Averaged	
29 4-Chloroaniline	0.49569	0.48608	0.48608	0.010	-1.94011	20.00000	Averaged	
30 Hexachlorobutadiene	0.16973	0.17126	0.17126	0.010	0.90194	20.00000	Averaged	
31 4-Chloro-3-methylphenol	0.39553	0.33683	0.33683	0.200	-14.84101	20.00000	Averaged	
32 2-Methylnaphthalene	0.63140	0.59985	0.59985	0.400	-4.99725	20.00000	Averaged	
33 Hexachlorocyclopentadiene	0.30422	0.33537	0.33537	0.050	10.23925	20.00000	Averaged	
34 2,4,6-Trichlorophenol	0.40229	0.43663	0.43663	0.200	8.53723	20.00000	Averaged	
35 2,4,5-Trichlorophenol	0.41265	0.45000	0.45000	0.200	9.05126	20.00000	Averaged	
\$ 36 2-Fluorobiphenyl	1.47870	1.44416	1.44416	0.010	-2.33534	20.00000	Averaged	
37 2-Chloronaphthalene	1.24790	1.28401	1.28401	0.800	2.89392	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 06-MAY-2009 14:54
 Lab File ID: cc0506.d Init. Cal. Date(s): 08-APR-2009 13-APR-2009
 Analysis Type: Init. Cal. Times: 17:00 15:20
 Lab Sample ID: ABN 25 Quant Type: ISTD
 Method: /chem3/nt4.i/20090506.b/SW846.m

COMPOUND	RF25		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF25	RRF25	RRF	%D / %DRIFT	%D / %DRIFT	
38 2-Nitroaniline	0.53200	0.44407	0.44407	0.010	-16.52759	20.00000	Averaged
39 Dimethylphthalate	1.46280	1.30496	1.30496	0.010	-10.79044	20.00000	Averaged
40 Acenaphthylene	2.15567	2.06079	2.06079	0.900	-4.40131	20.00000	Averaged
41 2,6-Dinitrotoluene	0.32930	0.31248	0.31248	0.200	-5.10698	20.00000	Averaged
43 3-Nitroaniline	0.39804	0.35956	0.35956	0.010	-9.66921	20.00000	Averaged
44 Acenaphthene	1.30785	1.18490	1.18490	0.900	-9.40077	20.00000	Averaged
45 2,4-Dinitrophenol	52.10227	50.00000	0.16516	0.010	4.20454	20.00000	Linear
46 Dibenzofuran	1.79145	1.61982	1.61982	0.800	-9.58052	20.00000	Averaged
47 4-Nitrophenol	0.21253	0.19063	0.19063	0.010	-10.30735	20.00000	Averaged
48 2,4-Dinitrotoluene	0.43315	0.39008	0.39008	0.200	-9.94331	20.00000	Averaged
50 Diethylphthalate	1.47303	1.23221	1.23221	0.010	-16.34879	20.00000	Averaged
49 Fluorene	1.43011	1.32510	1.32510	0.900	-7.34319	20.00000	Averaged
51 4-Chlorophenyl-phenylether	0.60233	0.59964	0.59964	0.400	-0.44583	20.00000	Averaged
52 4-Nitroaniline	0.38576	0.34632	0.34632	0.010	-10.22547	20.00000	Averaged
53 4,6-Dinitro-2-methylphenol	0.14776	0.15450	0.15450	0.010	4.56006	20.00000	Averaged
54 N-Nitrosodiphenylamine	0.70674	0.61428	0.61428	0.010	-13.08272	20.00000	Averaged
55 2,4,6-Tribromophenol	0.17199	0.17225	0.17225	0.010	-9.15238	20.00000	Averaged
56 4-Bromophenyl-phenylether	0.24677	0.21993	0.21993	0.100	-10.87985	20.00000	Averaged
57 Hexachlorobenzene	0.24912	0.23680	0.23680	0.100	-4.94376	20.00000	Averaged
58 Pentachlorophenol	0.14732	0.12473	0.12473	0.050	-15.32933	20.00000	Averaged
60 Phenanthrene	1.30536	1.25849	1.25849	0.700	-3.59010	20.00000	Averaged
61 Anthracene	1.34454	1.26432	1.26432	0.700	-5.96668	20.00000	Averaged
62 Carbazole	1.23113	1.04119	1.04119	0.010	-15.42793	20.00000	Averaged
63 Di-n-butylphthalate	1.60829	1.37524	1.37524	0.010	-14.49051	20.00000	Averaged
64 Fluoranthene	1.28946	1.16481	1.16481	0.600	-9.66687	20.00000	Averaged
65 Pyrene	1.60481	1.76229	1.76229	0.600	9.81297	20.00000	Averaged
66 Terphenyl-d14	0.97469	0.99045	0.99045	0.010	1.61651	20.00000	Averaged
67 Butylbenzylphthalate	0.86103	0.82965	0.82965	0.010	-3.64371	20.00000	Averaged
68 Benzo(a)anthracene	1.42186	1.40599	1.40599	0.800	-1.11645	20.00000	Averaged
70 3,3'-Dichlorobenzidine	0.51867	0.52061	0.52061	0.010	0.37264	20.00000	Averaged
71 Chrysene	1.40050	1.33751	1.33751	0.700	-4.49793	20.00000	Averaged
72 bis(2-Ethylhexyl)phthalate	0.63403	0.63839	0.63839	0.010	0.68673	20.00000	Averaged
73 Di-n-octylphthalate	1.12186	1.08342	1.08342	0.010	-3.42617	20.00000	Averaged
74 Benzo(b)fluoranthene	1.43398	1.36036	1.36036	0.700	-5.13343	20.00000	Averaged
75 Benzo(k)fluoranthene	1.37801	1.30604	1.30604	0.700	-5.22207	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 06-MAY-2009 14:54
 Lab File ID: cc0506.d Init. Cal. Date(s): 08-APR-2009 13-APR-2009
 Analysis Type: Init. Cal. Times: 17:00 15:20
 Lab Sample ID: ABN 25 Quant Type: ISTD
 Method: /chem3/nt4.i/20090506.b/SW846.m

COMPOUND	RF25		CCAL	MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF25	RRF25	RRF	%D / %DRIFT	%D / %DRIFT		
76 Benzo(a)pyrene	1.30120	1.23307	1.23307	0.700	-5.23554	20.00000	Averaged	
78 Indeno(1,2,3-cd)pyrene	1.61823	1.47167	1.47167	0.500	-9.05715	20.00000	Averaged	
79 Dibenzo(a,h)anthracene	1.33474	1.44151	1.44151	0.400	7.99880	20.00000	Averaged	
80 Benzo(g,h,i)perylene	1.43261	1.55938	1.55938	0.500	8.84886	20.00000	Averaged	
90 N-Nitrosodimethylamine	1.29647	1.01100	1.01100	0.010	-22.01897	20.00000	Averaged <-	
103 Pyridine	2.21325	1.79249	1.79249	0.010	-19.01087	20.00000	Averaged	
91 Aniline	2.87840	2.63152	2.63152	0.010	-8.57706	20.00000	Averaged	
105 1-methylnaphthalene	0.60408	0.55653	0.55653	0.010	-7.87061	20.00000	Averaged	
93 Benzidine	0.62141	0.58833	0.58833	0.010	-5.32459	20.00000	Averaged	
111 Azobenzene (1,2-DP-Hydrazin	1.96596	1.72597	1.72597	0.010	-12.20715	20.00000	Averaged	
143 1,4-Dioxane	0.83588	0.00035	0.00035	0.010	-100	20.00000	Averaged <-	
\$ 137 d8-1,4-Dioxane	0.74557	0.00107	0.00107	0.010	-100	20.00000	Averaged <-	
144 alpha-Terpineol	0.31295	0.27560	0.27560	0.010	-11.93557	20.00000	Averaged	
98 Retene	0.53120	0.51102	0.51102	0.010	-3.79924	20.00000	Averaged	
133 Butylatedhydroxytoluene	0.88320	0.86816	0.86816	0.010	-1.70206	20.00000	Averaged	
115 Tributyl Phosphate	1.40573	1.21898	1.21898	0.010	-13.28540	20.00000	Averaged	
116 Dibutyl Phenyl Phosphate	0.70241	0.63952	0.63952	0.010	-8.95366	20.00000	Averaged	
117 Butyl Diphenyl Phosphate	0.41953	0.40139	0.40139	0.010	-4.32515	20.00000	Averaged	
118 Triphenyl Phosphate	0.26573	0.23782	0.23782	0.010	-10.50033	20.00000	Averaged	
123 Acetophenone	2.27432	1.87531	1.87531	0.010	-17.54419	20.00000	Averaged	
179 n-Decane	1.82451	1.38874	1.38874	0.010	-23.88429	20.00000	Averaged <-	
180 n-Octadecane	18.30776	25.00000	0.55490	0.010	-26.76898	20.00000	Quadratic <-	
168 Pentachlorobenzene	0.44249	0.42599	0.42599	0.010	-3.72990	20.00000	Averaged	
113 Diphenyl Oxide	0.87192	0.83291	0.83291	0.010	-4.47416	20.00000	Averaged	
112 Biphenyl	25.56760	25.00000	1.71119	0.010	2.27040	20.00000	Quadratic	

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090506.b/cc0506.d
 Lab Smp Id: ABN 25
 Inj Date : 06-MAY-2009 14:54
 Operator : LJR/VTS
 Smp Info : ABN 25
 Misc Info :
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:49 jeff
 Cal Date : 13-APR-2009 13:04
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt4.i
 Quant Type: ISTD
 Cal File: 0800413.d
 Continuing Calibration Sample
 Compound Sublist: ICAL.sub

LJR
5/7/09

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112		3.619	3.619	(0.606)	320938	25.0000	23.26
\$ 2 Phenol-d5	99		5.734	5.734	(0.960)	432387	25.0000	23.47
3 Phenol	94		5.752	5.752	(0.963)	452103	25.0000	20.77
\$ 5 2-Chlorophenol-d4	132		5.676	5.676	(0.950)	269602	25.0000	24.38
4 Bis(2-Chloroethyl) ether	93		5.705	5.705	(0.955)	340520	25.0000	20.95
6 2-Chlorophenol	128		5.705	5.705	(0.955)	308229	25.0000	23.52
7 1,3-Dichlorobenzene	146		5.893	5.893	(0.986)	330151	25.0000	23.46
* 8 1,4-Dichlorobenzene-d4	152		5.975	5.975	(1.000)	168850	20.0000	
9 1,4-Dichlorobenzene	146		5.999	5.999	(1.004)	321172	25.0000	23.18
\$ 10 1,2-Dichlorobenzene-d4	152		6.281	6.281	(1.051)	196751	25.0000	25.10
12 1,2-Dichlorobenzene	146		6.304	6.304	(1.055)	319401	25.0000	24.48
11 Benzyl alcohol	108		6.375	6.375	(1.067)	222354	25.0000	22.77 (M)
14 2,2'-oxybis(1-Chloropropane)	45		6.645	6.645	(1.112)	359695	25.0000	21.13
13 2-Methylphenol	108		6.716	6.716	(1.124)	315212	25.0000	23.36
17 Hexachloroethane	117		6.804	6.804	(1.139)	142910	25.0000	24.31
16 N-Nitroso-di-n-propylamine	70		6.880	6.880	(1.151)	231888	25.0000	20.15
15 4-Methylphenol	108		6.968	6.968	(1.166)	319537	25.0000	22.96
\$ 18 Nitrobenzene-d5	82		6.980	6.980	(0.850)	327627	25.0000	21.80
19 Nitrobenzene	77		7.009	7.009	(0.853)	343062	25.0000	21.73
20 Isophorone	82		7.421	7.421	(0.903)	586611	25.0000	20.97
21 2-Nitrophenol	139		7.538	7.538	(0.918)	163293	25.0000	25.72
22 2,4-Dimethylphenol	107		7.785	7.785	(0.948)	299763	25.0000	23.01
23 Bis(2-Chloroethoxy)methane	93		7.891	7.891	(0.961)	371429	25.0000	22.41
24 Benzoic acid	105		8.173	8.173	(0.995)	403146	50.0000	39.93 (M)
25 2,4-Dichlorophenol	162		7.967	7.967	(0.970)	228942	25.0000	26.18
26 1,2,4-Trichlorobenzene	180		8.038	8.038	(0.979)	247843	25.0000	27.21
* 27 Naphthalene-d8	136		8.073	8.073	(1.000)	548444	20.0000	(H)

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====	==	=====	=====	=====	=====	=====
28 Naphthalene	128	8.102	8.102	(0.986)	750031	25.0000	24.36
29 4-Chloroaniline	127	8.320	8.320	(1.013)	333233	25.0000	24.51
30 Hexachlorobutadiene	225	8.467	8.467	(1.031)	117406	25.0000	25.23
31 4-Chloro-3-methylphenol	107	9.230	9.230	(1.124)	230917	25.0000	21.29
32 2-Methylnaphthalene	141	9.219	9.219	(1.122)	411227	25.0000	23.75 (H)
33 Hexachlorocyclopentadiene	237	9.606	9.606	(0.884)	114855	25.0000	27.56
34 2,4,6-Trichlorophenol	196	9.783	9.783	(0.900)	149536	25.0000	27.13
35 2,4,5-Trichlorophenol	196	9.841	9.841	(0.906)	154114	25.0000	27.26
\$ 36 2-Fluorobiphenyl	172	9.894	9.894	(0.911)	494590	25.0000	24.42
37 2-Chloronaphthalene	162	9.971	9.971	(0.918)	439743	25.0000	25.72
38 2-Nitroaniline	65	10.259	10.259	(0.944)	152084	25.0000	20.87
39 Dimethylphthalate	163	10.670	10.670	(0.982)	446916	25.0000	22.30
40 Acenaphthylene	152	10.611	10.611	(0.977)	705769	25.0000	23.90
41 2,6-Dinitrotoluene	165	10.740	10.740	(0.989)	107018	25.0000	23.72
* 42 Acenaphthene-d10	164	10.864	10.864	(1.000)	273980	20.0000	
43 3-Nitroaniline	138	10.923	10.923	(1.005)	123139	25.0000	22.58
44 Acenaphthene	153	10.911	10.911	(1.004)	405798	25.0000	22.65
45 2,4-Dinitrophenol	184	11.093	11.093	(1.021)	113124	50.0000	52.10
46 Dibenzofuran	168	11.175	11.175	(1.029)	554748	25.0000	22.60
47 4-Nitrophenol	109	11.369	11.369	(1.046)	65285	25.0000	22.42
48 2,4-Dinitrotoluene	165	11.334	11.334	(1.043)	133593	25.0000	22.51
50 Diethylphthalate	149	11.810	11.810	(1.087)	422001	25.0000	20.91
49 Fluorene	166	11.704	11.704	(1.077)	453812	25.0000	23.16
51 4-Chlorophenyl-phenylether	204	11.792	11.792	(1.085)	205363	25.0000	24.89
52 4-Nitroaniline	138	11.892	11.892	(1.095)	118605	25.0000	22.44
53 4,6-Dinitro-2-methylphenol	198	11.962	11.962	(0.910)	150094	50.0000	52.28
54 N-Nitrosodiphenylamine	169	12.009	12.009	(0.914)	298378	25.0000	21.73
\$ 55 2,4,6-Tribromophenol	330	12.133	12.133	(1.117)	58992	25.0000	25.04
56 4-Bromophenyl-phenylether	248	12.532	12.532	(0.954)	106826	25.0000	22.28
57 Hexachlorobenzene	284	12.697	12.697	(0.966)	115024	25.0000	23.76
58 Pentachlorophenol	266	13.026	13.026	(0.991)	60588	25.0000	21.17
* 59 Phenanthrene-d10	188	13.143	13.143	(1.000)	388590	20.0000	
60 Phenanthrene	178	13.179	13.179	(1.003)	611297	25.0000	24.10
61 Anthracene	178	13.243	13.243	(1.008)	614127	25.0000	23.51
62 Carbazole	167	13.578	13.578	(1.033)	505745	25.0000	21.14
63 Di-n-butylphthalate	149	14.395	14.395	(1.095)	668008	25.0000	21.38
64 Fluoranthene	202	15.041	15.041	(1.144)	565791	25.0000	22.58
65 Pyrene	202	15.364	15.364	(0.888)	570853	25.0000	27.45
\$ 66 Terphenyl-d14	244	15.776	15.776	(0.911)	320833	25.0000	25.40
67 Butylbenzylphthalate	149	16.716	16.716	(0.966)	268748	25.0000	24.09
68 Benzo(a)anthracene	228	17.286	17.286	(0.999)	455439	25.0000	24.72
* 69 Chrysene-d12	240	17.309	17.309	(1.000)	259142	20.0000	
70 3,3'-Dichlorobenzidine	252	17.374	17.374	(1.004)	168639	25.0000	25.09
71 Chrysene	228	17.344	17.344	(1.002)	433256	25.0000	23.88
72 bis(2-Ethylhexyl)phthalate	149	17.750	17.750	(0.951)	365757	25.0000	25.17
* 134 Di-n-octylphthalate-d4	153	18.672	18.672	(1.000)	458352	20.0000	
73 Di-n-octylphthalate	149	18.678	18.678	(1.000)	620735	25.0000	24.14

Compounds	QUANT SIG		AMOUNTS					
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
74 Benzo(b)fluoranthene	252	18.884	18.884	(0.974)	504392	25.0000	23.72	
75 Benzo(k)fluoranthene	252	18.919	18.919	(0.976)	484252	25.0000	23.69	
76 Benzo(a)pyrene	252	19.301	19.301	(0.996)	457196	25.0000	23.69	
* 77 Perylene-d12	264	19.383	19.383	(1.000)	296622	20.0000		
78 Indeno(1,2,3-cd)pyrene	276	20.699	20.699	(1.068)	545661	25.0000	22.74	
79 Dibenzo(a,h)anthracene	278	20.746	20.746	(1.070)	534478	25.0000	27.00	
80 Benzo(g,h,i)perylene	276	20.981	20.981	(1.082)	578184	25.0000	27.21	
90 N-Nitrosodimethylamine	74	1.293	1.293	(0.216)	213385	25.0000	19.50	
103 Pyridine	79	1.281	1.281	(0.214)	378328	25.0000	20.25	
91 Aniline	93	5.523	5.523	(0.924)	555415	25.0000	22.86	
105 1-methylnaphthalene	141	9.377	9.377	(1.142)	381534	25.0000	23.03	
93 Benzidine	184	15.376	15.376	(0.888)	190575	25.0000	23.67	
111 Azobenzene (1,2-DP-Hydrazine)	77	12.027	12.027	(1.107)	591103	25.0000	21.95	
143 1,4-Dioxane	88	Compound Not Detected.						
\$ 137 d8-1,4-Dioxane	96	Compound Not Detected.						
144 alpha-Terpineol	59	8.214	8.214	(1.000)	188936	25.0000	22.02	
98 Retene	219	15.981	15.981	(0.923)	165534	25.0000	24.05	
133 Butylatedhydroxytoluene	205	11.152	11.152	(1.026)	297324	25.0000	24.57	
115 Tributyl Phosphate	99	12.227	12.227	(0.930)	592103	25.0000	21.68	
116 Dibutyl Phenyl Phosphate	175	13.860	13.860	(1.055)	310637	25.0000	22.76	
117 Butyl Diphenyl Phosphate	94	15.464	15.464	(0.893)	130021	25.0000	23.92	
118 Triphenyl Phosphate	326	16.998	16.998	(0.982)	77038	25.0000	22.37	
123 Acetophenone	105	6.763	6.763	(1.132)	395807	25.0000	20.61	
179 n-Decane	57	5.905	5.905	(0.988)	293111	25.0000	19.03	
180 n-Octadecane	57	13.284	13.284	(1.011)	269536	25.0000	18.31	
168 Pentachlorobenzene	250	11.216	11.216	(1.032)	145891	25.0000	24.07	
113 Diphenyl Oxide	170	10.212	10.212	(0.940)	285250	25.0000	23.88	
112 Biphenyl	154	10.006	10.006	(0.921)	586039	25.0000	25.57	

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: cc0506.d
 Lab Smp Id: ABN 25
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info:

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54

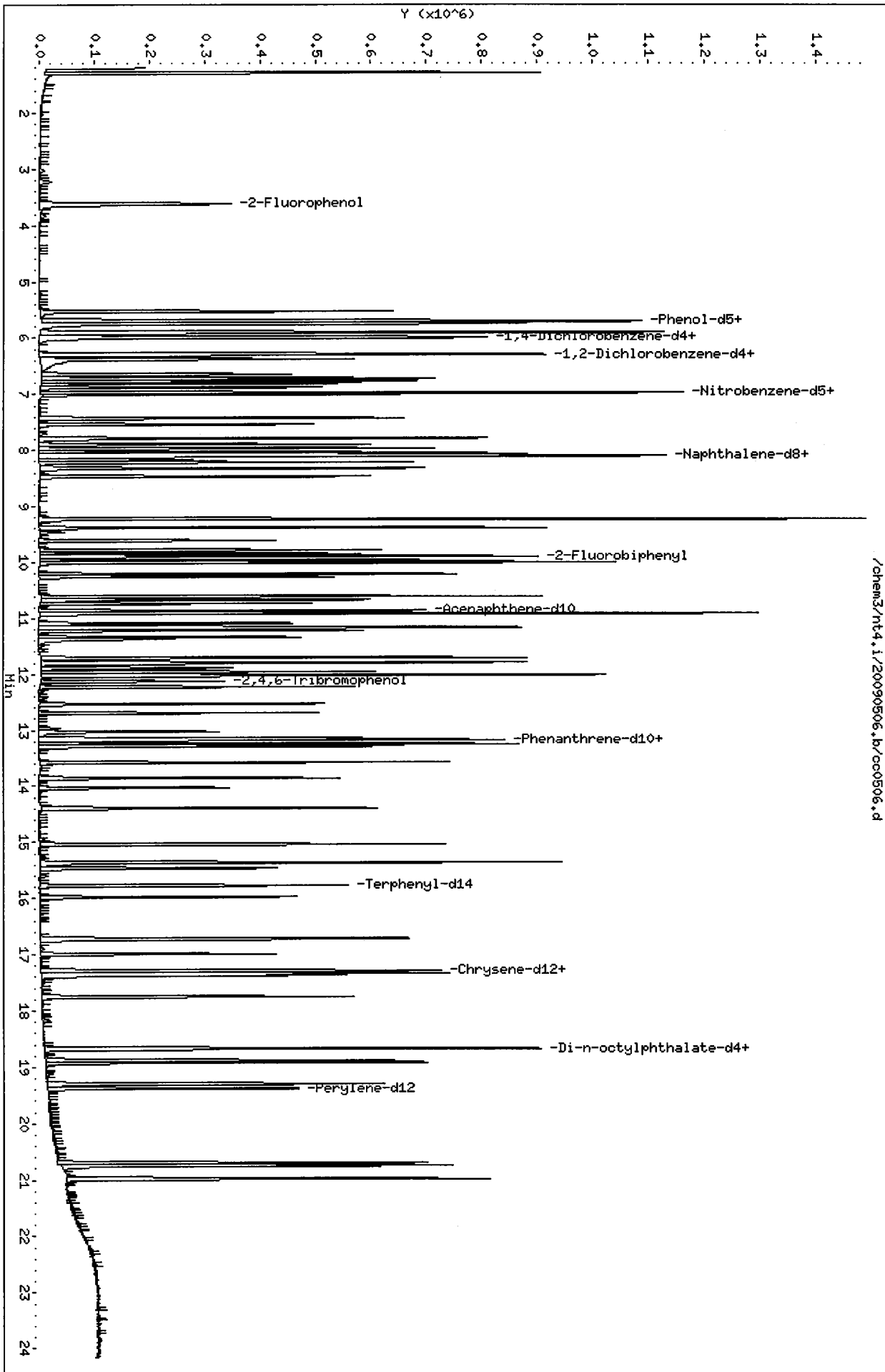
Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

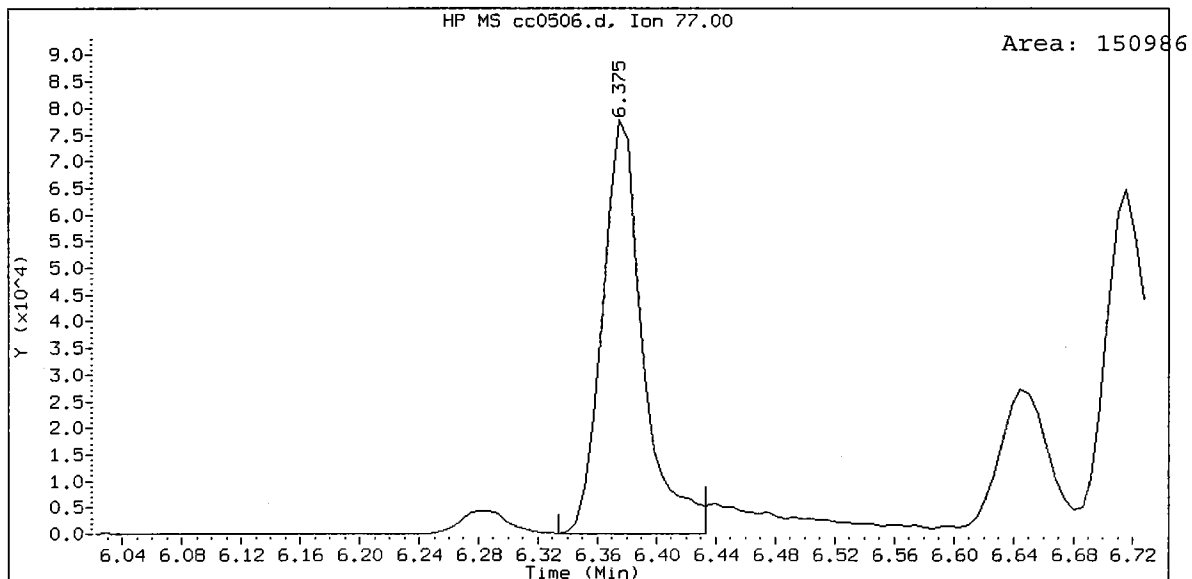
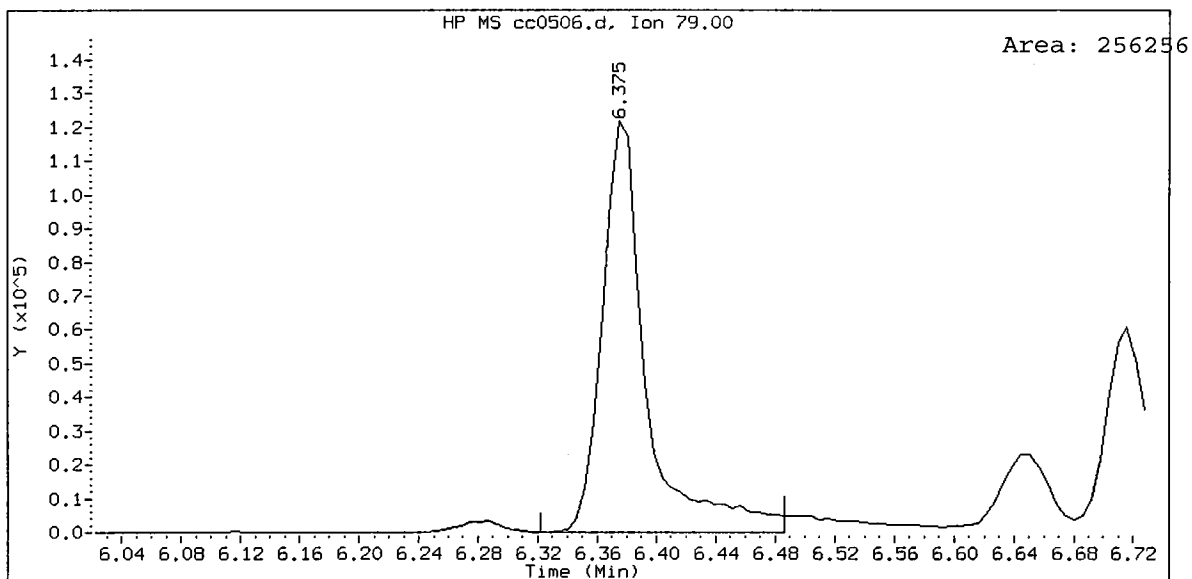
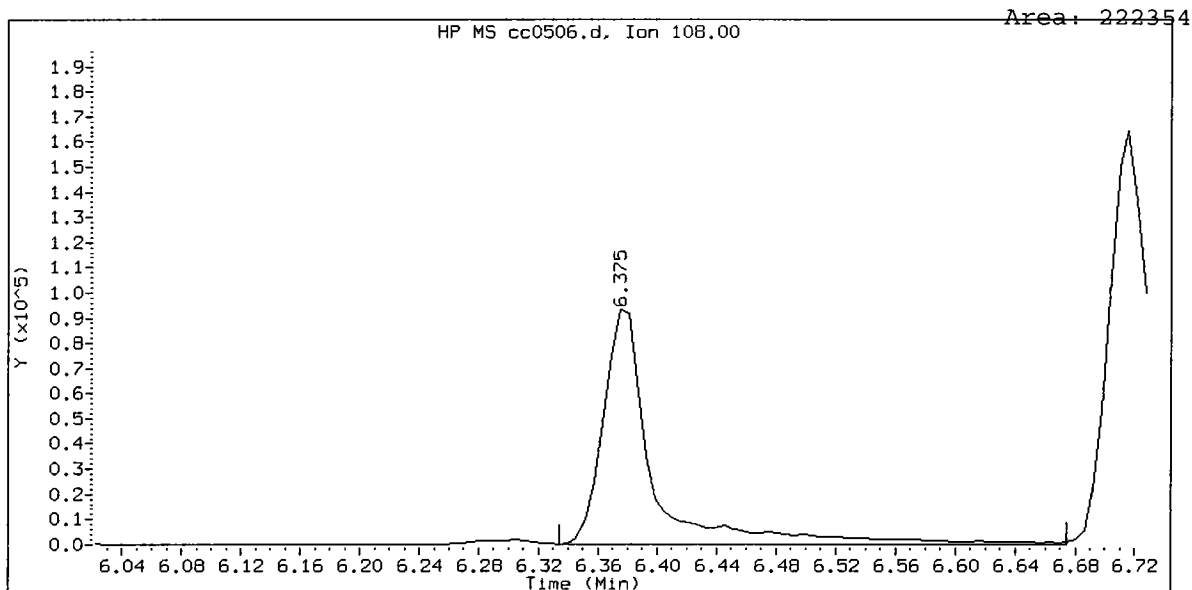
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	168850	-2.09
27 Naphthalene-d8	608124	304062	1216248	548444	-9.81
42 Acenaphthene-d10	305977	152988	611954	273980	-10.46
59 Phenanthrene-d10	428646	214323	857292	388590	-9.34
69 Chrysene-d12	348476	174238	696952	259142	-25.64
134 Di-n-octylphthala	674761	337380	1349522	458352	-32.07
77 Perylene-d12	426588	213294	853176	296622	-30.47

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.98	0.00
27 Naphthalene-d8	8.07	7.57	8.57	8.07	0.00
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	0.00
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	0.00
69 Chrysene-d12	17.31	16.81	17.81	17.31	0.00
134 Di-n-octylphthala	18.67	18.17	19.17	18.67	0.00
77 Perylene-d12	19.38	18.88	19.88	19.38	0.00

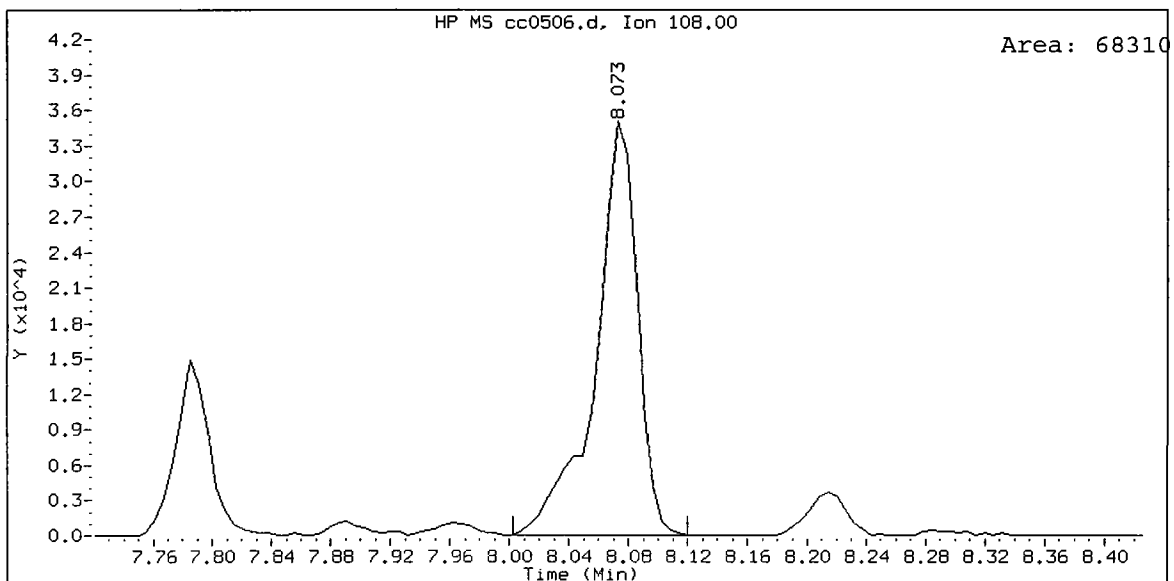
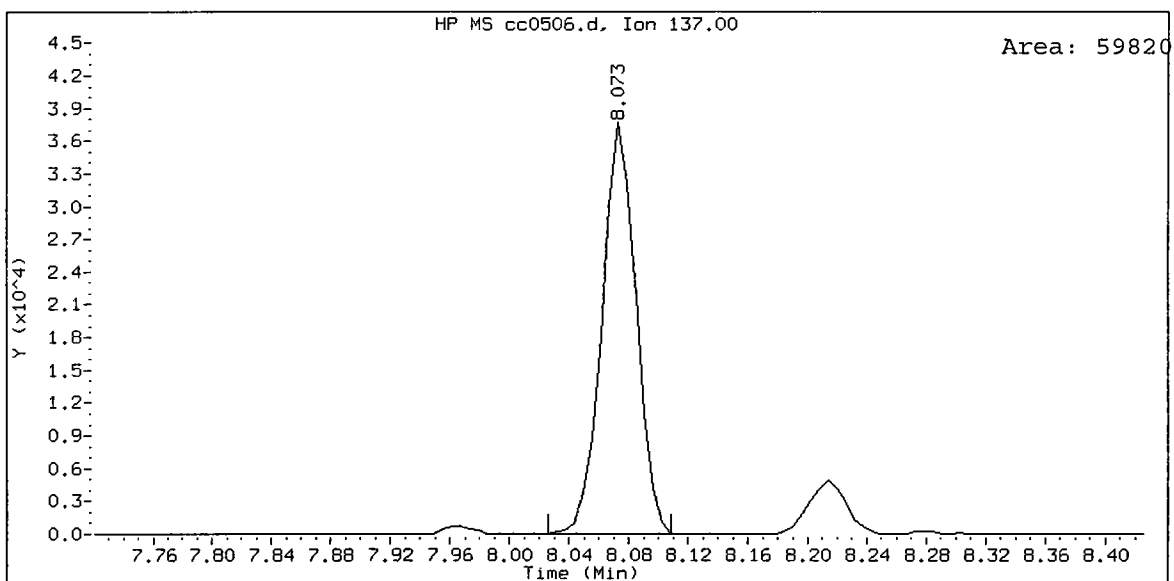
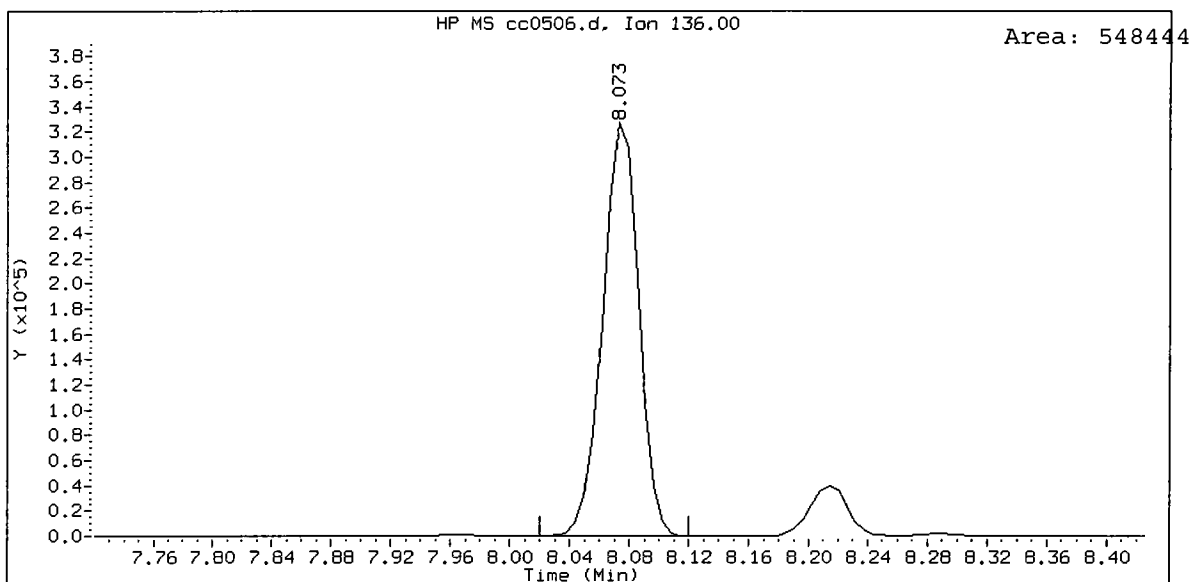
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



ABN 25, /chem3/nt4.i/20090506.b/cc0506.d
Benzyl alcohol Amount: 22.77

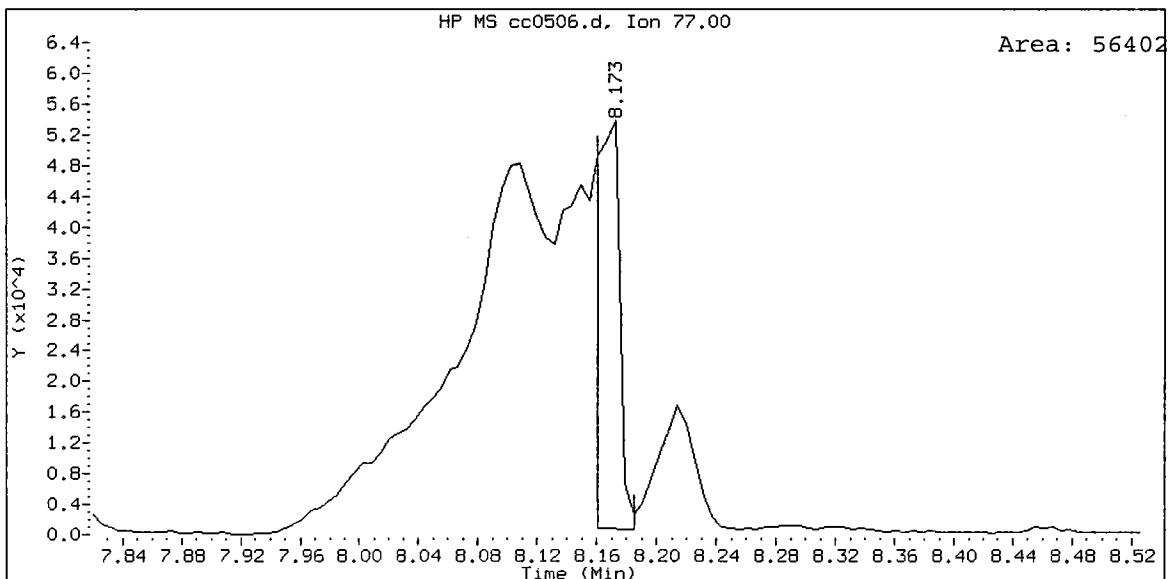
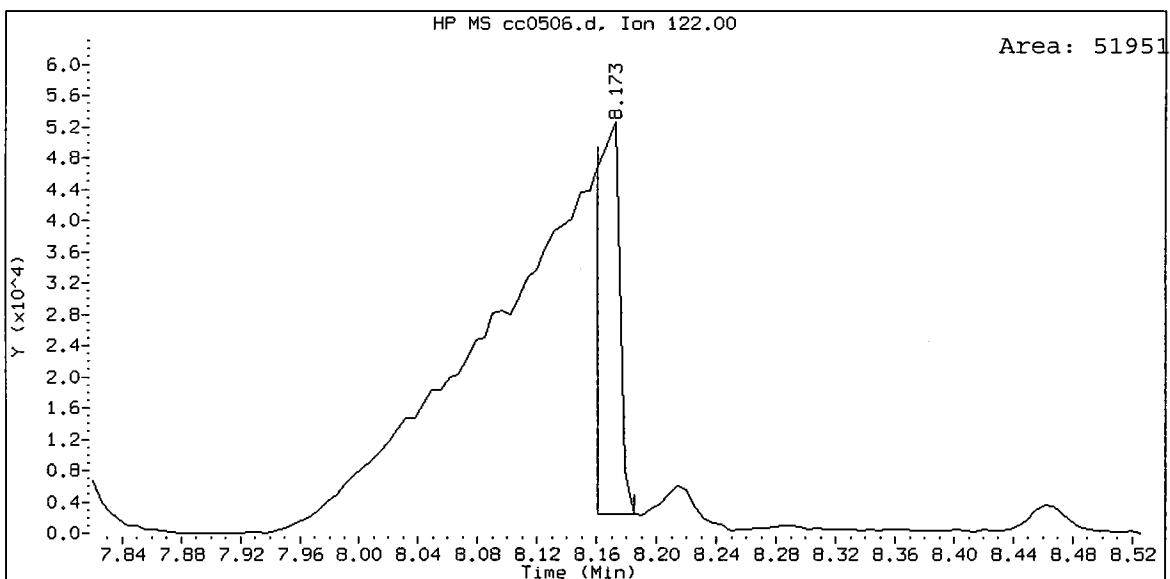
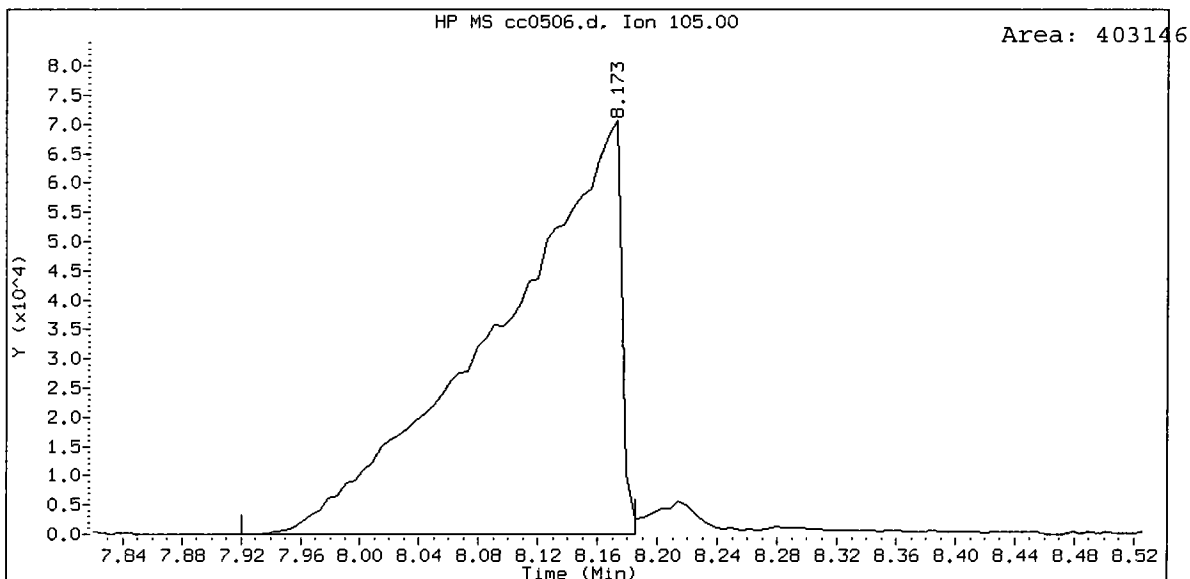


ABN 25, /chem3/nt4.i/20090506.b/cc0506.d
Naphthalene-d8 Amount: 20.00

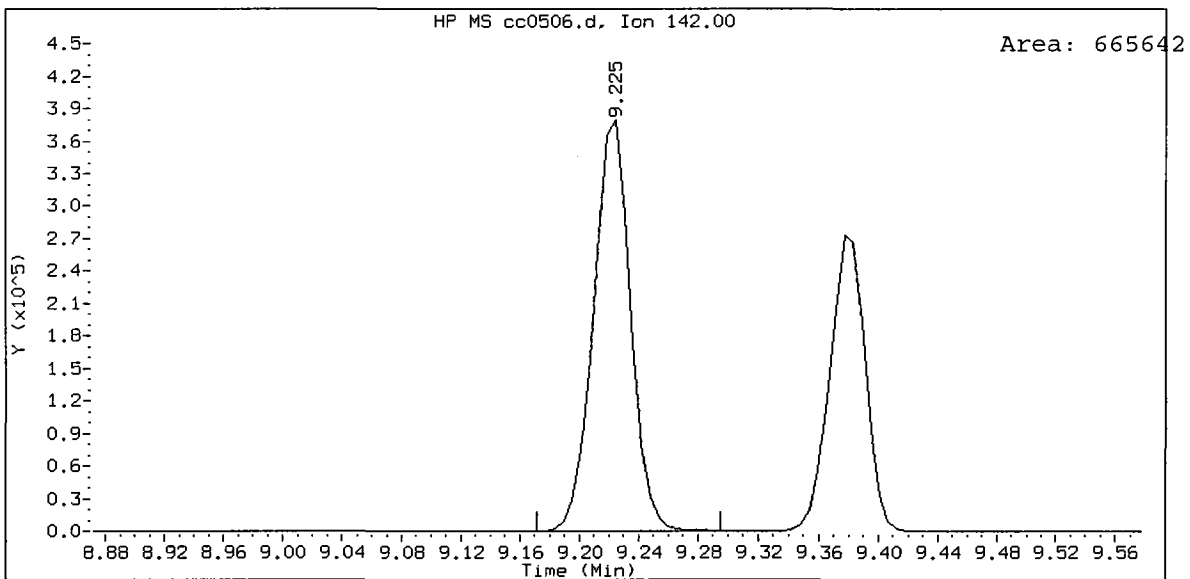
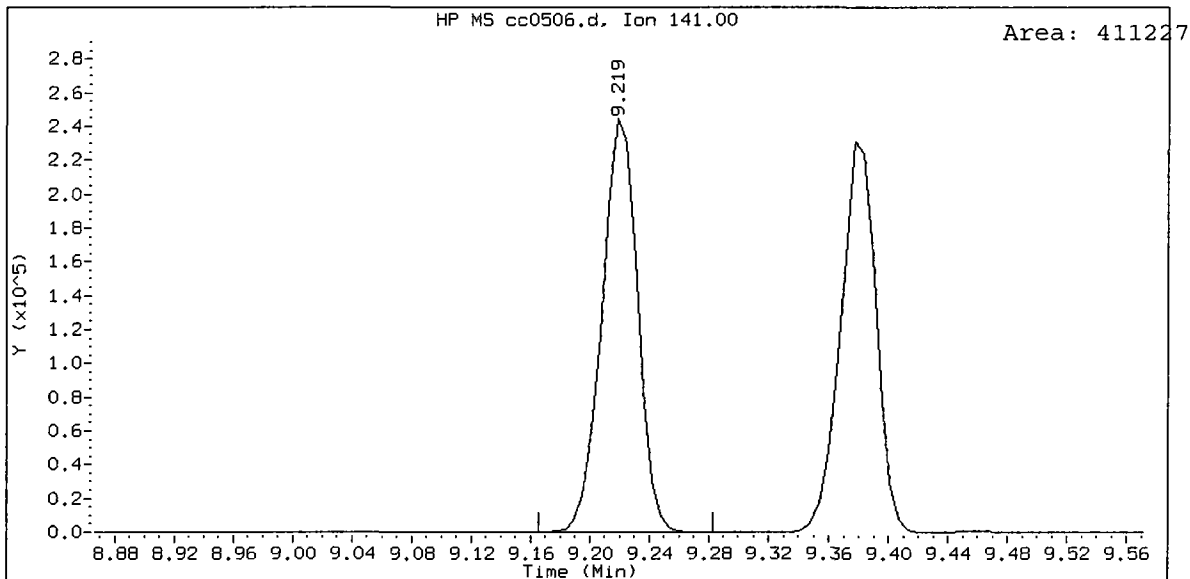


0450 : 00244

ABN 25, /chem3/nt4.i/20090506.b/cc0506.d
Benzoic acid Amount: 39.93



ABN 25, /chem3/nt4.i/20090506.b/cc0506.d
2-Methylnaphthalene Amount: 23.75



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20090506.b/ddt.b/cc0506.d
Method: /chem3/nt4.i/20090506.b/ddt.b/sw846ddt.m
Analysis Date: 06-MAY-2009 14:54

ARI ID:
Misc:
Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	13.026	60588
Benzidine	15.376	186143
4,4'-DDE	----	----
4,4'-DDD	16.281	2433
4,4'-DDT	16.739	141025

LTK
5/7/09

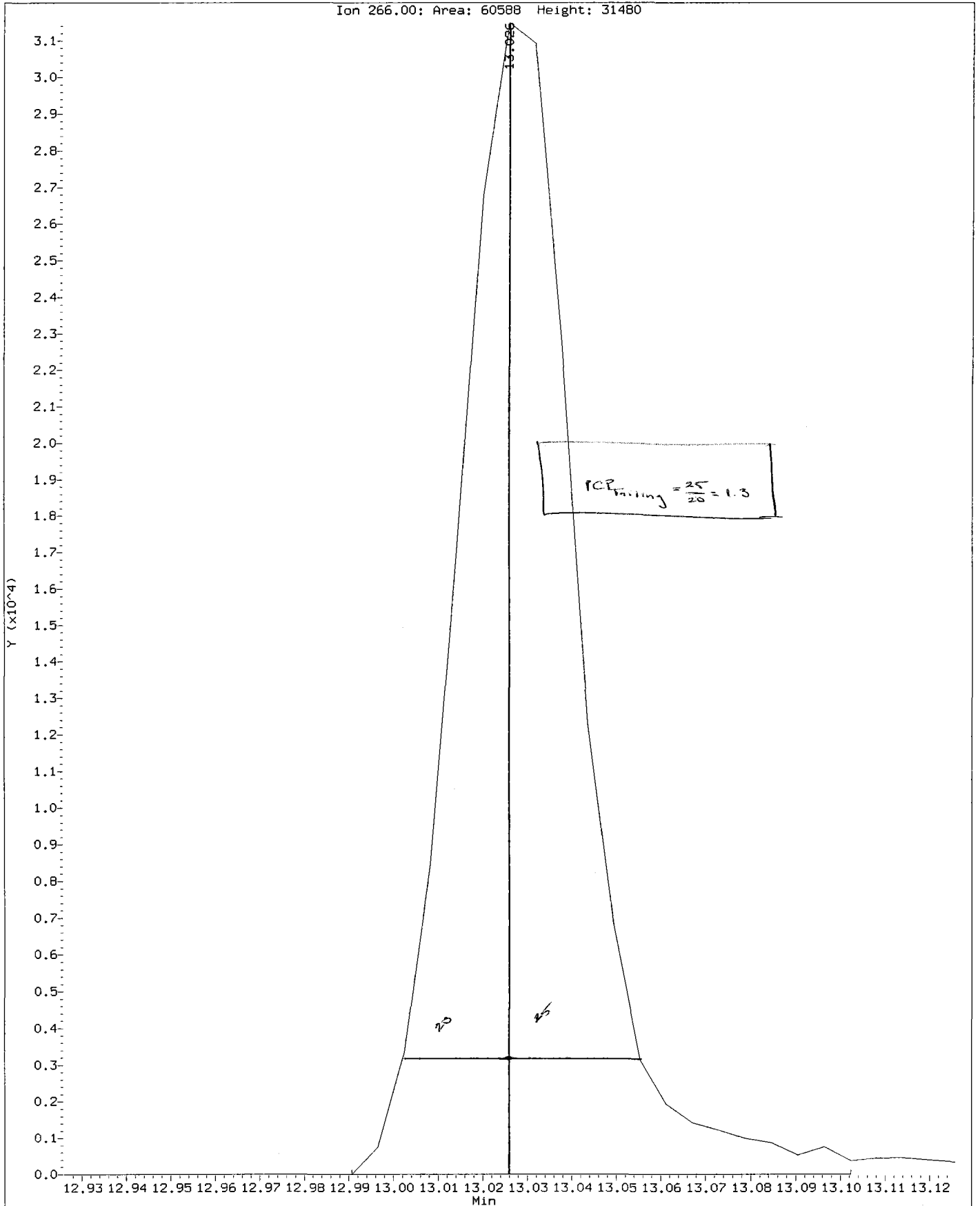
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 2433) * 100}{(0 + 2433 + 141025)}$$

$$\text{DDT Percent Breakdown} = \boxed{1.7 \%}$$

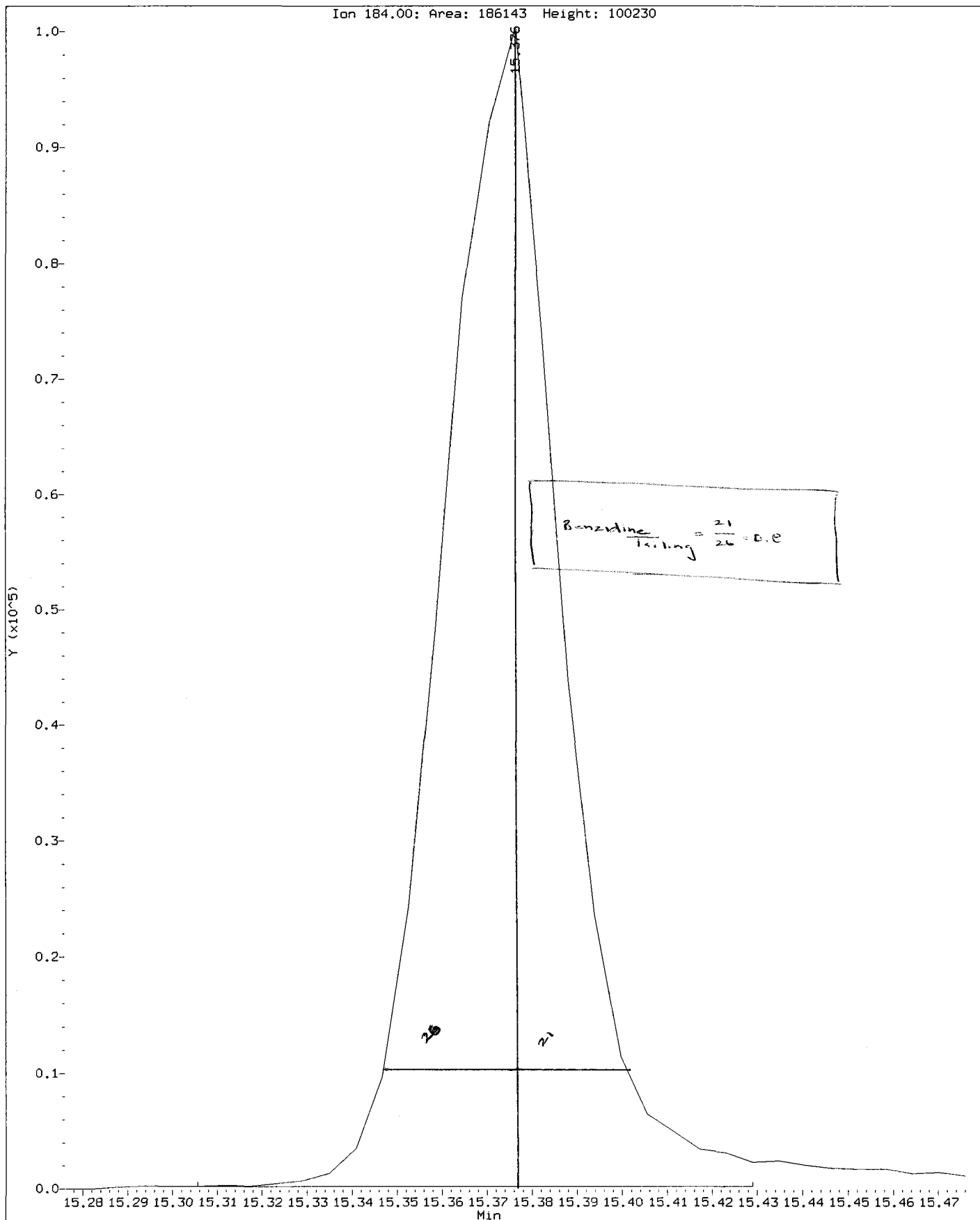
Data File: /chem3/nt4.i/20090506.b/ddt.b/cc0506.d
Injection Date: 06-MAY-2009 14:54
Instrument: nt4.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20090506.b/ddt.b/cc0506.d
Injection Date: 06-MAY-2009 14:54
Instrument: nt4.i
Client Sample ID:

Compound: Benzidine
CAS Number:



0490 : 00249

Semivolatile Analysis
QC Raw Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

Date : 08-APR-2009 17:00

Client ID:

Instrument: nt4.i

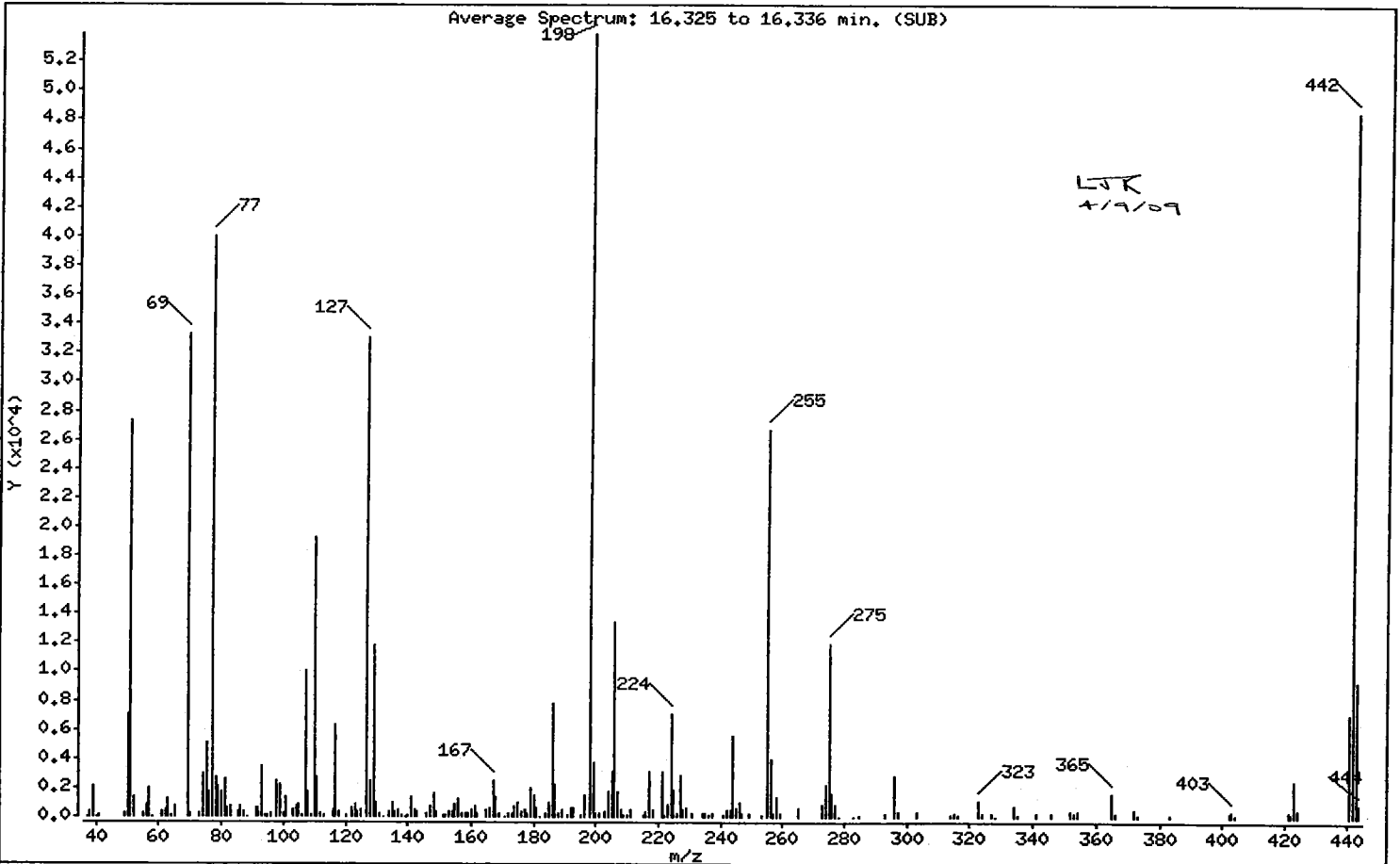
Sample Info: ABN 25

Operator: LJR

Column phase: ZB-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	50.66
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	61.82
70	Less than 2.00% of mass 69	0.42 (0.68)
127	25.00 - 75.00% of mass 198	61.24
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 30.00% of mass 198	22.23
365	Greater than 0.75% of mass 198	2.92
441	Present, but less than mass 443	13.06
442	40.00 - 110.00% of mass 198	90.18
443	15.00 - 24.00% of mass 442	17.37 (19.26)

Date : 08-APR-2009 17:00

Client ID:

Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR

Column phase: ZB-5

Column diameter: 0.32

Data File: 0250408.d

Spectrum: Average Spectrum: 16.325 to 16.336 min. (SUB)

Location of Maximum: 198.00

Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	51	112.00	283	178.00	216	249.00	216
38.00	323	113.00	68	179.00	2045	253.00	186
39.00	2057	116.00	484	180.00	1494	255.00	26760
40.00	36	117.00	6334	181.00	640	256.00	3999
41.00	92	118.00	423	182.00	60	257.00	278
49.00	252	120.00	137	184.00	198	258.00	1413
50.00	7078	122.00	642	185.00	934	259.00	218
51.00	27304	123.00	882	186.00	7791	265.00	562
52.00	1381	124.00	383	187.00	2253	273.00	913
55.00	240	125.00	438	188.00	204	274.00	2267
56.00	889	127.00	33008	189.00	442	275.00	11983
57.00	2025	128.00	2499	191.00	121	276.00	1584
58.00	50	129.00	11848	192.00	635	277.00	917
61.00	402	130.00	1038	193.00	667	278.00	60
62.00	490	131.00	211	195.00	123	283.00	62
63.00	1252	132.00	54	196.00	1451	285.00	128
64.00	64	134.00	334	198.00	53896	293.00	203
65.00	714	135.00	960	199.00	3705	296.00	2909
69.00	33320	136.00	430	200.00	271	297.00	387
70.00	226	137.00	515	201.00	293	303.00	416
73.00	228	138.00	76	203.00	398	314.00	136
74.00	2958	139.00	58	204.00	1777	315.00	298
75.00	5142	140.00	154	205.00	3046	316.00	177
76.00	1773	141.00	1403	206.00	13405	323.00	1138
77.00	39936	142.00	460	207.00	1743	324.00	200
78.00	2746	143.00	325	208.00	440	327.00	235
79.00	2154	146.00	214	209.00	140	328.00	57
80.00	1718	147.00	702	210.00	163	334.00	776
81.00	2659	148.00	1598	211.00	491	335.00	180
82.00	654	149.00	317	215.00	69	341.00	199
83.00	758	151.00	68	216.00	311	346.00	301
85.00	387	152.00	129	217.00	3133	352.00	408
86.00	687	153.00	425	218.00	486	353.00	261
87.00	321	154.00	411	221.00	3106	354.00	373
88.00	57	155.00	820	222.00	158	365.00	1574

Date : 08-APR-2009 17:00

Client ID:

Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR

Column phase: ZB-5

Column diameter: 0.32

Data File: 0250408.d

Spectrum: Average Spectrum: 16.325 to 16.336 min. (SUB)

Location of Maximum: 198.00

Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	594	156.00	1259	223.00	849	366.00	261
92.00	634	157.00	276	224.00	7123	372.00	539
93.00	3422	158.00	243	225.00	1890	373.00	86
94.00	127	159.00	200	226.00	231	383.00	168
95.00	115	160.00	472	227.00	2831	402.00	272
96.00	227	161.00	689	228.00	435	403.00	361
98.00	2496	162.00	223	229.00	580	404.00	80
99.00	2232	165.00	523	231.00	299	421.00	350
100.00	219	166.00	581	234.00	199	422.00	304
101.00	1331	167.00	2532	235.00	203	423.00	2462
103.00	480	168.00	1308	236.00	169	424.00	508
104.00	723	169.00	281	237.00	255	441.00	7039
105.00	852	171.00	57	241.00	124	442.00	48608
106.00	118	172.00	222	242.00	453	443.00	9363
107.00	10061	173.00	274	243.00	437	444.00	859
108.00	1778	174.00	696	244.00	5589		
109.00	104	175.00	1044	245.00	666		
110.00	19296	176.00	369	246.00	949		
111.00	2728	177.00	455	247.00	190		

Date : 08-APR-2009 17:00

Client ID:

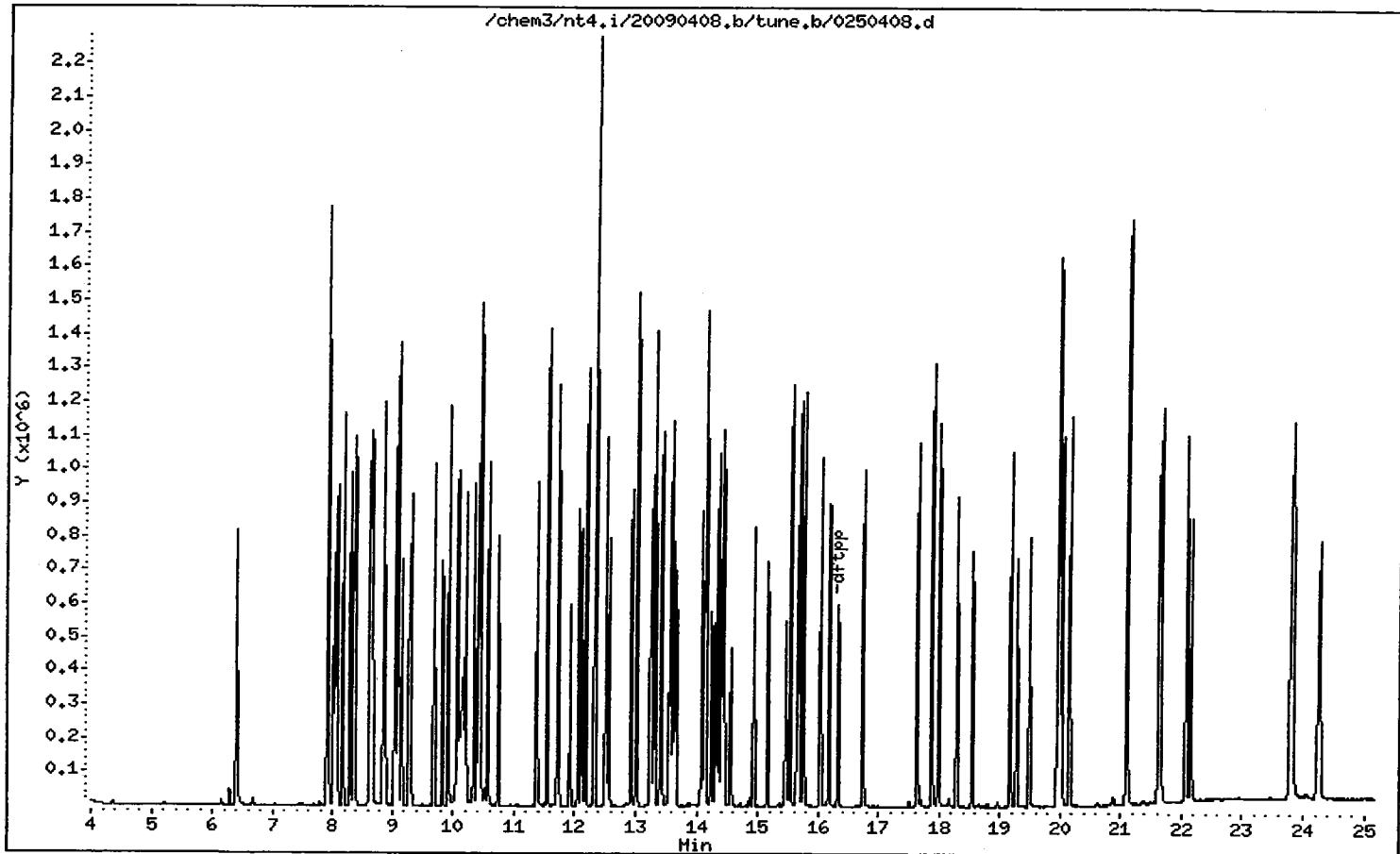
Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR

Column phase: ZB-5

Column diameter: 0,32



Date : 06-MAY-2009 14:54

Client ID:

Instrument: nt4.i

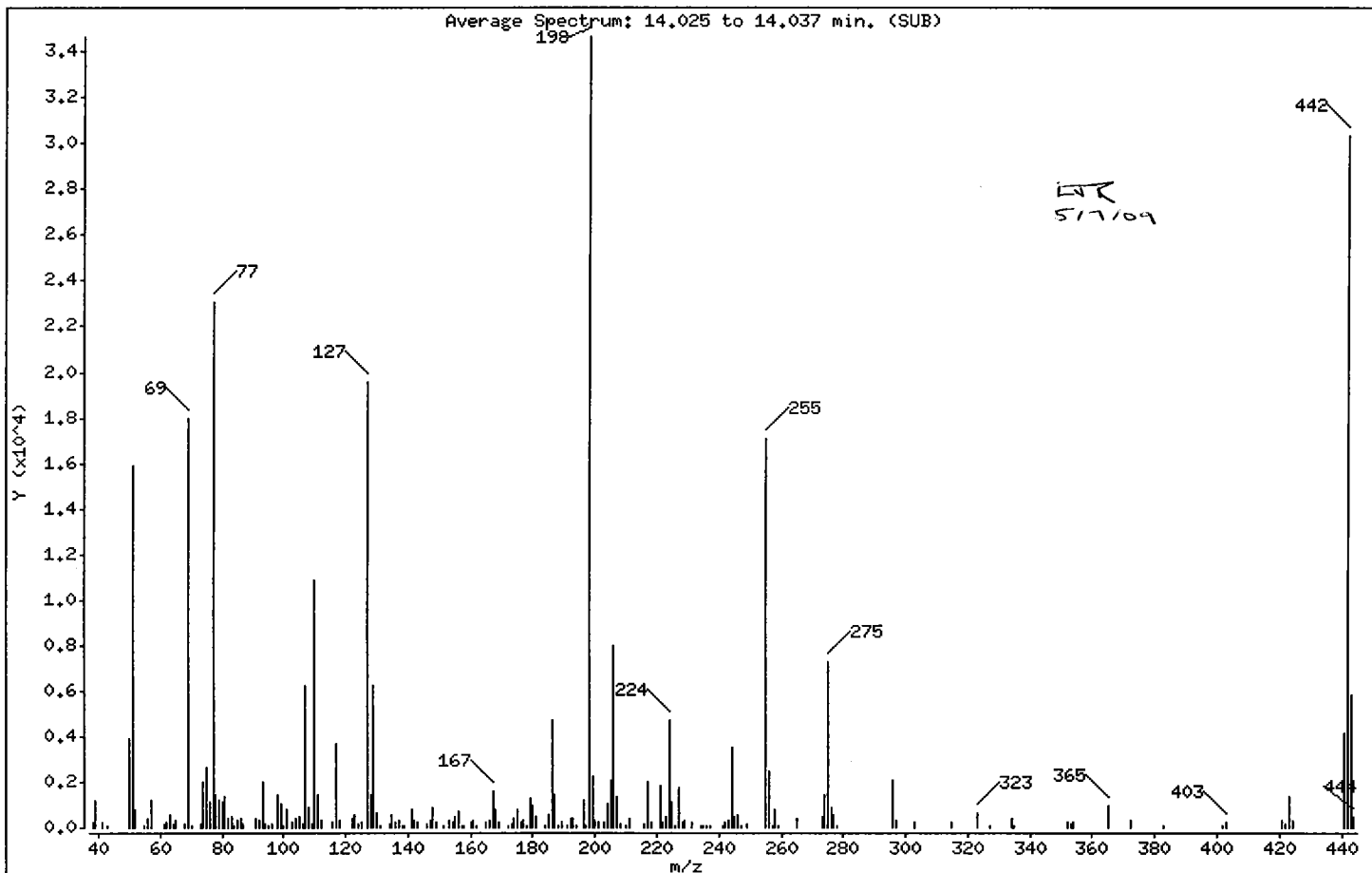
Sample Info: ABN 25

Operator: LJR

Column phase: ZB-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	45.83
68	Less than 2.00% of mass 69	0.39 (0.74)
69	Mass 69 relative abundance	51.92
70	Less than 2.00% of mass 69	0.23 (0.44)
127	25.00 - 75.00% of mass 198	56.43
197	Less than 1.00% of mass 198	0.27
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 30.00% of mass 198	20.90
365	Greater than 0.75% of mass 198	2.80
441	Present, but less than mass 443	12.04
442	40.00 - 110.00% of mass 198	87.47
443	15.00 - 24.00% of mass 442	16.88 (19.30)

Date : 06-MAY-2009 14:54

Client ID:

Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR

Column phase: ZB-5

Column diameter: 0,32

Data File: cc0506.d
 Spectrum: Average Spectrum: 14.025 to 14.037 min. (SUB)
 Location of Maximum: 198.00
 Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38,00	237	108,00	914	175,00	788	241,00	51
39,00	1192	109,00	144	176,00	260	242,00	209
41,00	258	110,00	10853	177,00	342	243,00	322
43,00	67	111,00	1417	178,00	62	244,00	3505
50,00	3934	112,00	294	179,00	1240	245,00	466
51,00	15884	116,00	273	180,00	950	246,00	579
52,00	821	117,00	3698	181,00	458	247,00	60
55,00	89	118,00	295	184,00	69	249,00	137
56,00	424	122,00	374	185,00	568	255,00	17104
57,00	1228	123,00	540	186,00	4692	256,00	2497
61,00	177	124,00	166	187,00	1413	257,00	119
62,00	244	125,00	250	188,00	119	258,00	835
63,00	589	127,00	19552	189,00	261	259,00	83
64,00	135	128,00	1444	191,00	55	265,00	415
65,00	356	129,00	6191	192,00	426	273,00	489
68,00	134	130,00	609	193,00	410	274,00	1443
69,00	17992	131,00	62	194,00	63	275,00	7242
70,00	79	134,00	122	196,00	1230	276,00	903
73,00	121	135,00	543	197,00	94	277,00	588
74,00	2012	136,00	224	198,00	34656	278,00	55
75,00	2645	137,00	351	199,00	2254	296,00	2064
76,00	1134	138,00	50	200,00	293	297,00	310
77,00	23112	139,00	63	201,00	221	303,00	257
78,00	1452	141,00	787	203,00	251	315,00	268
79,00	1203	142,00	307	204,00	1035	323,00	676
80,00	1088	143,00	225	205,00	2044	327,00	51
81,00	1372	146,00	130	206,00	8013	334,00	418
82,00	385	147,00	328	207,00	1333	335,00	119
83,00	454	148,00	909	208,00	173	352,00	276
84,00	67	149,00	225	210,00	53	353,00	143
85,00	331	151,00	67	211,00	374	354,00	252
86,00	388	153,00	299	216,00	136	365,00	972
87,00	133	154,00	275	217,00	1994	372,00	297
91,00	366	155,00	464	218,00	269	383,00	50
92,00	327	156,00	693	221,00	1803	402,00	80

Date : 06-MAY-2009 14:54

Client ID:

Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR

Column phase: ZB-5

Column diameter: 0.32

Data File: cc0506.d
Spectrum: Average Spectrum: 14.025 to 14.037 min. (SUB)
Location of Maximum: 198.00
Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
93.00	1990	157.00	112	222.00	235	403.00	220
94.00	167	158.00	61	223.00	482	421.00	282
95.00	115	160.00	233	224.00	4734	422.00	175
96.00	171	161.00	324	225.00	1137	423.00	1362
98.00	1448	162.00	52	226.00	63	424.00	315
99.00	1060	165.00	239	227.00	1786	441.00	4173
100.00	55	166.00	333	228.00	248	442.00	30312
101.00	830	167.00	1616	229.00	290	443.00	5850
103.00	263	168.00	820	231.00	271	444.00	510
104.00	417	169.00	210	234.00	75		
105.00	464	172.00	68	235.00	112		
106.00	169	173.00	145	236.00	58		
107.00	6265	174.00	433	237.00	55		

Date : 06-MAY-2009 14:54

Client ID:

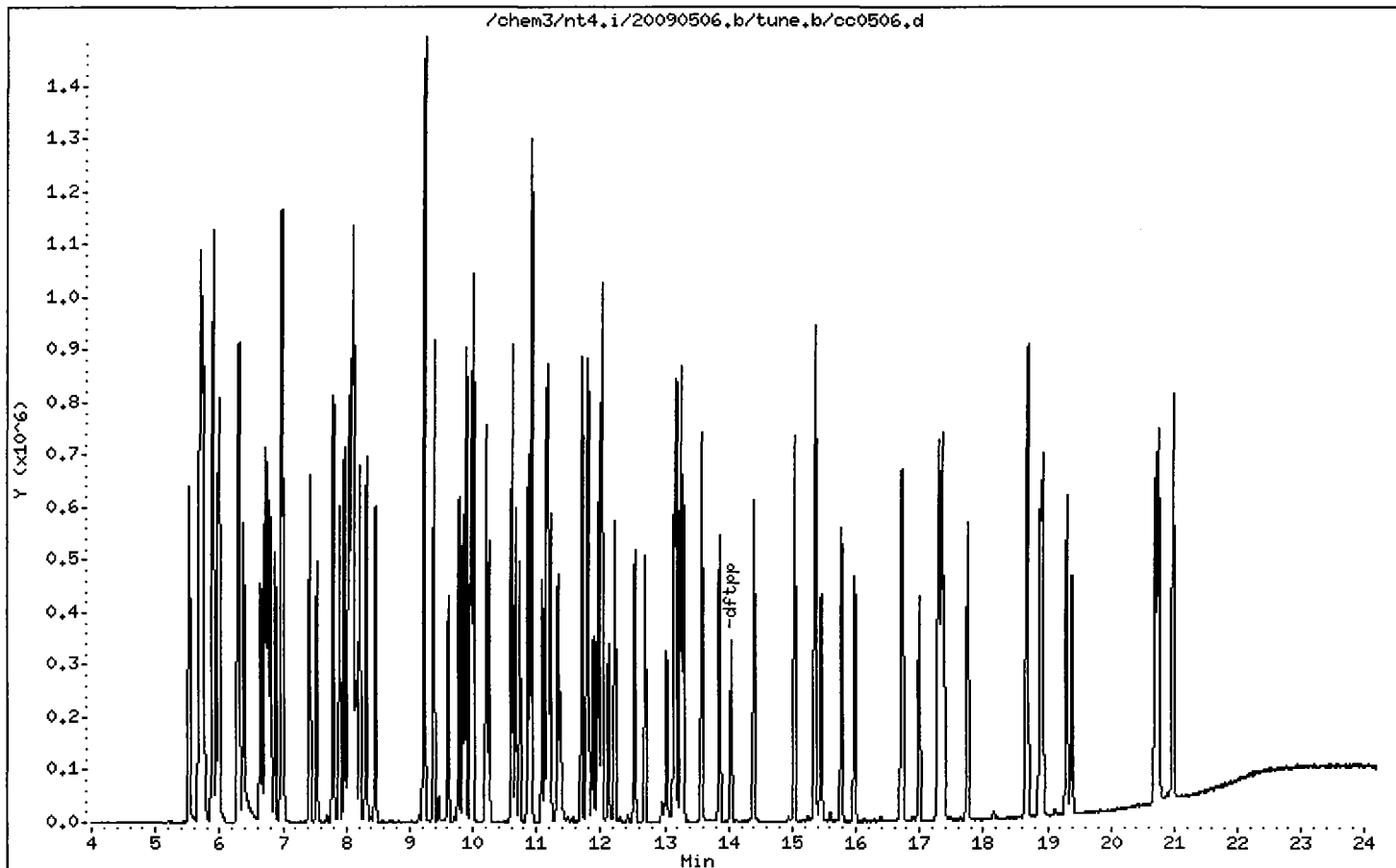
Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR

Column phase: ZB-5

Column diameter: 0.32



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: MB-050109
METHOD BLANK

Lab Sample ID: MB-050109
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: NA
 Date Received: NA

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 16:34
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.0 g
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo (a) anthracene	20	< 20 U
117-81-7	bis (2-Ethylhexyl) phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo (b) fluoranthene	20	< 20 U
207-08-9	Benzo (k) fluoranthene	20	< 20 U
50-32-8	Benzo (a) pyrene	20	< 20 U
193-39-5	Indeno (1,2,3-cd) pyrene	20	< 20 U
53-70-3	Dibenz (a,h) anthracene	20	< 20 U
191-24-2	Benzo (g,h,i) perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.6%	2-Fluorobiphenyl	68.4%
d14-p-Terphenyl	79.6%	d4-1,2-Dichlorobenzene	68.8%
d5-Phenol	64.3%	2-Fluorophenol	64.5%
2,4,6-Tribromophenol	74.9%	d4-2-Chlorophenol	66.7%

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090506.b/ow90mb.d
 Lab Smp Id: OW90MBS1 Client Smp ID: OW90MBS1
 Inj Date : 06-MAY-2009 16:34
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90MBS1
 Misc Info : 09-10073
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:50 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 3 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSSDAMBLCS.sub
 Target Version: 3.50

LTK
5/7/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112			3.644	3.619	(0.611)	299184	24.1644	483.3
\$ 2 Phenol-d5	99			5.730	5.734	(0.961)	398414	24.0969	482.0
3 Phenol	94						Compound Not Detected.		
\$ 5 2-Chlorophenol-d4	132			5.677	5.676	(0.952)	248178	25.0098	500.2
4 Bis(2-Chloroethyl) ether	93						Compound Not Detected.		
6 2-Chlorophenol	128						Compound Not Detected.		
7 1,3-Dichlorobenzene	146						Compound Not Detected.		
* 8 1,4-Dichlorobenzene-d4	152			5.965	5.975	(1.000)	151504	20.0000	
9 1,4-Dichlorobenzene	146						Compound Not Detected.		
\$ 10 1,2-Dichlorobenzene-d4	152			6.277	6.281	(1.052)	120668	17.1592	343.2
12 1,2-Dichlorobenzene	146						Compound Not Detected.		
11 Benzyl alcohol	108						Compound Not Detected.		
14 2,2'-oxybis(1-Chloropropane)	45						Compound Not Detected.		
13 2-Methylphenol	108						Compound Not Detected.		
17 Hexachloroethane	117						Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
15 4-Methylphenol	108				Compound Not Detected.		
\$ 18 Nitrobenzene-d5	82	6.970	6.980	(0.864)	219661	15.4066	308.1
19 Nitrobenzene	77				Compound Not Detected.		
20 Isophorone	82				Compound Not Detected.		
21 2-Nitrophenol	139				Compound Not Detected.		
22 2,4-Dimethylphenol	107				Compound Not Detected.		
23 Bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
24 Benzoic acid	105				Compound Not Detected.		
25 2,4-Dichlorophenol	162				Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
* 27 Naphthalene-d8	136	8.069	8.073	(1.000)	520206	20.0000	
28 Naphthalene	128				Compound Not Detected.		
29 4-Chloroaniline	127				Compound Not Detected.		
30 Hexachlorobutadiene	225				Compound Not Detected.		
31 4-Chloro-3-methylphenol	107				Compound Not Detected.		
32 2-Methylnaphthalene	141				Compound Not Detected.		
33 Hexachlorocyclopentadiene	237				Compound Not Detected.		
34 2,4,6-Trichlorophenol	196				Compound Not Detected.		
35 2,4,5-Trichlorophenol	196				Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172	9.890	9.894	(0.911)	335537	17.1362	342.7
37 2-Chloronaphthalene	162				Compound Not Detected.		
38 2-Nitroaniline	65				Compound Not Detected.		
39 Dimethylphthalate	163				Compound Not Detected.		
40 Acenaphthylene	152				Compound Not Detected.		
41 2,6-Dinitrotoluene	165				Compound Not Detected.		
* 42 Acenaphthene-d10	164	10.860	10.864	(1.000)	264836	20.0000	
43 3-Nitroaniline	138				Compound Not Detected.		
44 Acenaphthene	153				Compound Not Detected.		
45 2,4-Dinitrophenol	184				Compound Not Detected.		
46 Dibenzofuran	168				Compound Not Detected.		
47 4-Nitrophenol	109				Compound Not Detected.		
48 2,4-Dinitrotoluene	165				Compound Not Detected.		
50 Diethylphthalate	149				Compound Not Detected.		
49 Fluorene	166				Compound Not Detected.		
51 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
52 4-Nitroaniline	138				Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
54 N-Nitrosodiphenylamine	169				Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330	12.123	12.133	(1.116)	64092	28.1419	562.8
56 4-Bromophenyl-phenylether	248				Compound Not Detected.		
57 Hexachlorobenzene	284				Compound Not Detected.		
58 Pentachlorophenol	266				Compound Not Detected.		
* 59 Phenanthrene-d10	188	13.139	13.143	(1.000)	378654	20.0000	
60 Phenanthrene	178				Compound Not Detected.		
61 Anthracene	178				Compound Not Detected.		
62 Carbazole	167				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149				Compound Not Detected.		
64 Fluoranthene	202				Compound Not Detected.		
65 Pyrene	202				Compound Not Detected.		
\$ 66 Terphenyl-d14	244	15.771	15.776	(0.912)	280299	19.8508	397.0
67 Butylbenzylphthalate	149				Compound Not Detected.		
68 Benzo(a)anthracene	228				Compound Not Detected.		
* 69 Chrysene-d12	240	17.293	17.309	(1.000)	289743	20.0000	
70 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
71 Chrysene	228				Compound Not Detected.		
72 bis(2-Ethylhexyl)phthalate	149				Compound Not Detected.		
* 134 Di-n-octylphthalate-d4	153	18.662	18.672	(1.000)	515291	20.0000	
73 Di-n-octylphthalate	149				Compound Not Detected.		
74 Benzo(b)fluoranthene	252				Compound Not Detected.		
75 Benzo(k)fluoranthene	252				Compound Not Detected.		
76 Benzo(a)pyrene	252				Compound Not Detected.		
* 77 Perylene-d12	264	19.373	19.383	(1.000)	291436	20.0000	
78 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
80 Benzo(g,h,i)perylene	276				Compound Not Detected.		
90 N-Nitrosodimethylamine	74				Compound Not Detected.		
91 Aniline	93				Compound Not Detected.		
93 Benzidine	184				Compound Not Detected.		
103 Pyridine	79				Compound Not Detected.		
105 1-methylnaphthalene	141				Compound Not Detected.		
111 Azobenzene (1,2-DP-Hydrazine)	77				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90mb.d
 Lab Smp Id: OW90MBS1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: OW90MBS1
 Level: LOW
 Sample Type: Solid

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	151504	-12.15
27 Naphthalene-d8	608124	304062	1216248	520206	-14.46
42 Acenaphthene-d10	305977	152988	611954	264836	-13.45
59 Phenanthrene-d10	428646	214323	857292	378654	-11.66
69 Chrysene-d12	348476	174238	696952	289743	-16.85
134 Di-n-octylphthala	674761	337380	1349522	515291	-23.63
77 Perylene-d12	426588	213294	853176	291436	-31.68

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.17
27 Naphthalene-d8	8.07	7.57	8.57	8.07	-0.05
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	-0.04
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	-0.03
69 Chrysene-d12	17.31	16.81	17.81	17.29	-0.09
134 Di-n-octylphthala	18.67	18.17	19.17	18.66	-0.05
77 Perylene-d12	19.38	18.88	19.88	19.37	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix
 Sample Matrix: SOLID
 Lab Smp Id: OW90MBS1
 Level: LOW
 Data Type: MS DATA
 SpikeList File: PSDDALCS.spk
 Sublist File: PSDDAMBLCS.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

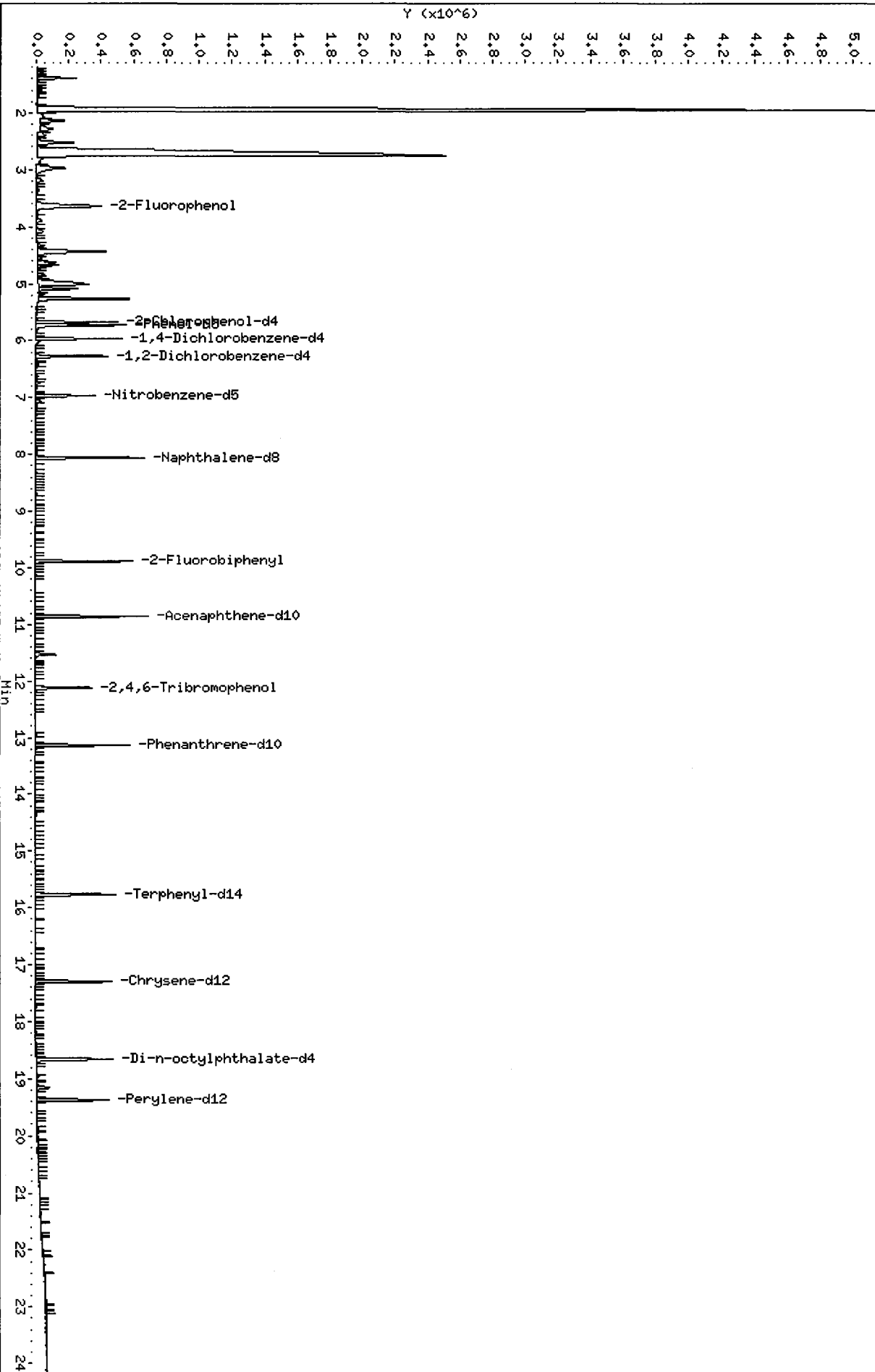
Client SDG: OW90
 Fraction: SV
 Client Smp ID: OW90MBS1
 Operator: LJR/VTS
 SampleType: BLANK
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	750.0	483.3	64.44	11-106
\$ 2 Phenol-d5	750.0	482.0	64.26	31-91
\$ 5 2-Chlorophenol-d4	750.0	500.2	66.69	32-91
\$ 10 1,2-Dichlorobenzen	500.0	343.2	68.64	35-85
\$ 18 Nitrobenzene-d5	500.0	308.1	61.62	34-91
\$ 36 2-Fluorobiphenyl	500.0	342.7	68.54	37-94
\$ 55 2,4,6-Tribromophen	750.0	562.8	75.05	25-117
\$ 66 Terphenyl-d14	500.0	397.0	79.40	39-105

Data File: /chem3/nt4.1/20090506.b/aw90mb.d
Date : 06-MAY-2009 16:34
Client ID: OM90MB01
Sample Info: OM90MB01
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.1
Operator: LJR/VTS
Column diameter: 0.32

/chem3/nt4.1/20090506.b/aw90mb.d



Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D
 Data file : /chem3/nt4.i/20090506.b/ow90sb.d
 Lab Smp Id: OW90LCSS1 Client Smp ID: OW90LCSS1
 Inj Date : 06-MAY-2009 17:07
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90LCSS1
 Misc Info : 09-10073
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:49 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 4 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSSDAMBLCS.sub
 Target Version: 3.50

LTK
5/11/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112		3.641	3.619	(0.610)	325502	24.7437	494.9
\$ 2 Phenol-d5	99		5.733	5.734	(0.961)	435515	24.7936	495.9
3 Phenol	94		5.750	5.752	(0.964)	318771	15.3592	307.2
\$ 5 2-Chlorophenol-d4	132		5.680	5.676	(0.952)	269558	25.5666	511.3
4 Bis(2-Chloroethyl)ether	93		5.703	5.705	(0.956)	218599	14.1080	282.2
6 2-Chlorophenol	128		5.703	5.705	(0.956)	203257	16.2719	325.4
7 1,3-Dichlorobenzene	146		5.891	5.893	(0.987)	219325	16.3503	327.0
* 8 1,4-Dichlorobenzene-d4	152		5.968	5.975	(1.000)	160972	20.0000	
9 1,4-Dichlorobenzene	146		5.997	5.999	(1.005)	220458	16.6893	333.8
\$ 10 1,2-Dichlorobenzene-d4	152		6.279	6.281	(1.052)	131478	17.5967	351.9
12 1,2-Dichlorobenzene	146		6.303	6.304	(1.056)	216147	17.3773	347.5
11 Benzyl alcohol	108		6.379	6.375	(1.069)	259245	27.8454	556.9 (M)
14 2,2'-oxybis(1-Chloropropane)	45		6.644	6.645	(1.113)	237895	13.3088	266.2
13 2-Methylphenol	108		6.714	6.716	(1.125)	210484	16.3638	327.3
17 Hexachloroethane	117		6.796	6.804	(1.139)	93649	16.7088	334.2

Compounds	QUANT		CONCENTRATIONS					
	MASS	SIG	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70		6.873	6.880	(1.152)	156757	14.2846	285.7
15 4-Methylphenol	108		6.973	6.968	(1.168)	424485	31.9877	639.8
\$ 18 Nitrobenzene-d5	82		6.973	6.980	(0.864)	228915	15.5506	311.0
19 Nitrobenzene	77		7.002	7.009	(0.868)	380030	24.5843	491.7 (R)
20 Isophorone	82		7.419	7.421	(0.919)	428922	15.6543	313.1
21 2-Nitrophenol	139		7.531	7.538	(0.933)	110515	17.7734	355.5
22 2,4-Dimethylphenol	107		7.783	7.785	(0.964)	174678	13.6928	273.9
23 Bis(2-Chloroethoxy)methane	93		7.889	7.891	(0.977)	256779	15.8164	316.3
24 Benzoic acid	105		8.183	8.173	(1.014)	508706	51.4431	1029 (M)
25 2,4-Dichlorophenol	162		7.960	7.967	(0.986)	157391	18.3789	367.6
26 1,2,4-Trichlorobenzene	180		8.036	8.038	(0.996)	173052	19.3997	388.0
* 27 Naphthalene-d8	136		8.071	8.073	(1.000)	537102	20.0000	
28 Naphthalene	128		8.101	8.102	(1.004)	529242	17.5529	351.1
29 4-Chloroaniline	127		8.318	8.320	(1.031)	222490	16.7136	334.3
30 Hexachlorobutadiene	225		8.465	8.467	(1.049)	83518	18.3233	366.5
31 4-Chloro-3-methylphenol	107		9.229	9.230	(1.143)	167771	15.7945	315.9
32 2-Methylnaphthalene	141		9.217	9.219	(1.142)	287966	16.9829	339.7
33 Hexachlorocyclopentadiene	237		9.605	9.606	(0.884)	230859	55.9879	1120
34 2,4,6-Trichlorophenol	196		9.775	9.783	(0.899)	100076	18.3537	367.1
35 2,4,5-Trichlorophenol	196		9.846	9.841	(0.906)	106485	19.0388	380.8
\$ 36 2-Fluorobiphenyl	172		9.893	9.894	(0.910)	351723	17.5491	351.0
37 2-Chloronaphthalene	162		9.963	9.971	(0.917)	313375	18.5275	370.5
38 2-Nitroaniline	65		10.257	10.259	(0.944)	110658	15.3463	306.9
39 Dimethylphthalate	163		10.668	10.670	(0.982)	330407	16.6646	333.3
40 Acenaphthylene	152		10.609	10.611	(0.976)	486732	16.6587	333.2
41 2,6-Dinitrotoluene	165		10.739	10.740	(0.988)	81025	18.1534	363.1
* 42 Acenaphthene-d10	164		10.868	10.864	(1.000)	271080	20.0000	
43 3-Nitroaniline	138		10.927	10.923	(1.005)	119301	22.1129	442.3
44 Acenaphthene	153		10.909	10.911	(1.004)	299143	16.8754	337.5
45 2,4-Dinitrophenol	184		11.091	11.093	(1.021)	154135	71.7504	1435
46 Dibenzofuran	168		11.174	11.175	(1.028)	413989	17.0497	341.0
47 4-Nitrophenol	109		11.367	11.369	(1.046)	43883	15.2336	304.7
48 2,4-Dinitrotoluene	165		11.332	11.334	(1.043)	103542	17.6364	352.7
50 Diethylphthalate	149		11.808	11.810	(1.087)	324240	16.2400	324.8
49 Fluorene	166		11.702	11.704	(1.077)	337076	17.3896	347.8
51 4-Chlorophenyl-phenylether	204		11.785	11.792	(1.084)	147365	18.0507	361.0
52 4-Nitroaniline	138		11.884	11.892	(1.094)	54123	10.3513	207.0
53 4,6-Dinitro-2-methylphenol	198		11.955	11.962	(0.910)	191503	69.5473	1391
54 N-Nitrosodiphenylamine	169		12.008	12.009	(0.914)	211084	16.0275	320.6
\$ 55 2,4,6-Tribromophenol	330		12.125	12.133	(1.116)	67761	29.0676	581.4
56 4-Bromophenyl-phenylether	248		12.531	12.532	(0.954)	79601	17.3097	346.2
57 Hexachlorobenzene	284		12.689	12.697	(0.966)	89303	19.2367	384.7
58 Pentachlorophenol	266		13.024	13.026	(0.991)	44558	16.2310	324.6
* 59 Phenanthrene-d10	188		13.142	13.143	(1.000)	372700	20.0000	
60 Phenanthrene	178		13.171	13.179	(1.002)	471867	19.3982	388.0
61 Anthracene	178		13.242	13.243	(1.008)	433029	17.2827	345.7
62 Carbazole	167		13.571	13.578	(1.033)	408887	17.8226	356.5

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/mL)	FINAL (ug/kg)	
63 Di-n-butylphthalate	149	14.393	14.395	(1.095)	530893	17.7138	354.3	
64 Fluoranthene	202	15.034	15.041	(1.144)	457184	19.0263	380.5	
65 Pyrene	202	15.357	15.364	(0.888)	462819	21.4678	429.4	
\$ 66 Terphenyl-d14	244	15.774	15.776	(0.912)	263784	20.1456	402.9	
67 Butylbenzylphthalate	149	16.708	16.716	(0.966)	221451	19.1452	382.9	
68 Benzo(a)anthracene	228	17.284	17.286	(0.999)	373821	19.5706	391.4	
* 69 Chrysene-d12	240	17.302	17.309	(1.000)	268677	20.0000		
70 3,3'-Dichlorobenzidine	252	17.372	17.374	(1.004)	69493	9.97346	199.5	
71 Chrysene	228	17.337	17.344	(1.002)	381750	20.2906	405.8	
72 bis(2-Ethylhexyl)phthalate	149	17.754	17.750	(0.951)	306699	20.3101	406.2	
* 134 Di-n-octylphthalate-d4	153	18.665	18.672	(1.000)	476343	20.0000		
73 Di-n-octylphthalate	149	18.676	18.678	(1.001)	528470	19.7785	395.6	
74 Benzo(b)fluoranthene	252	18.882	18.884	(0.975)	426903	19.3670	387.3	
75 Benzo(k)fluoranthene	252	18.911	18.919	(0.976)	467793	22.0840	441.7(M)	
76 Benzo(a)pyrene	252	19.293	19.301	(0.996)	361610	18.0789	361.6	
* 77 Perylene-d12	264	19.376	19.383	(1.000)	307436	20.0000		
78 Indeno(1,2,3-cd)pyrene	276	20.698	20.699	(1.068)	479933	19.2937	385.9	
79 Dibenzo(a,h)anthracene	278	20.745	20.746	(1.071)	472044	23.0070	460.1	
80 Benzo(g,h,i)perylene	276	20.974	20.981	(1.082)	499233	22.6699	453.4	
90 N-Nitrosodimethylamine	74	1.320	1.293	(0.221)	139133	13.3336	266.7	
91 Aniline	93	5.527	5.523	(0.926)	418868	18.0803	361.6(R)	
93 Benzidine	184	Compound Not Detected.						
103 Pyridine	79	1.309	1.281	(0.219)	175783	9.86793	197.4	
105 1-methylnaphthalene	141	9.376	9.377	(1.162)	285990	17.6291	352.6	
111 Azobenzene (1,2-DP-Hydrazine)	77	12.025	12.027	(1.107)	426048	15.9888	319.8	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90sb.d
 Lab Smp Id: OW90LCSS1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: OW90LCSS1
 Level: LOW
 Sample Type: Solid

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	160972	-6.66
27 Naphthalene-d8	608124	304062	1216248	537102	-11.68
42 Acenaphthene-d10	305977	152988	611954	271080	-11.41
59 Phenanthrene-d10	428646	214323	857292	372700	-13.05
69 Chrysene-d12	348476	174238	696952	268677	-22.90
134 Di-n-octylphthala	674761	337380	1349522	476343	-29.41
77 Perylene-d12	426588	213294	853176	307436	-27.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.13
27 Naphthalene-d8	8.07	7.57	8.57	8.07	-0.02
42 Acenaphthene-d10	10.86	10.36	11.36	10.87	0.04
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	-0.01
69 Chrysene-d12	17.31	16.81	17.81	17.30	-0.04
134 Di-n-octylphthala	18.67	18.17	19.17	18.66	-0.04
77 Perylene-d12	19.38	18.88	19.88	19.38	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix Client SDG: OW90
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: OW90LCSS1 Client Smp ID: OW90LCSS1
 Level: LOW Operator: LJR/VTS
 Data Type: MS DATA SampleType: LCS
 SpikeList File: PSDDALCS.spk Quant Type: ISTD
 Sublist File: PSDDAMBLCS.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	500.0	307.2	61.44	37-92
4 Bis(2-Chloroethyl)	500.0	282.2	56.43	40-83
6 2-Chlorophenol	500.0	325.4	65.09	42-80
7 1,3-Dichlorobenzen	500.0	327.0	65.40	39-75
9 1,4-Dichlorobenzen	500.0	333.8	66.76	40-75
11 Benzyl alcohol	1000	556.9	55.69	25-90
12 1,2-Dichlorobenzen	500.0	347.5	69.51	40-76
13 2-Methylphenol	500.0	327.3	65.46	40-86
14 2,2'-oxybis(1-Chlo	500.0	266.2	53.24	26-100
15 4-Methylphenol	1000	639.8	63.98	40-92
16 N-Nitroso-di-n-pro	500.0	285.7	57.14	29-95
17 Hexachloroethane	500.0	334.2	66.84	37-73
19 Nitrobenzene	500.0	491.7	98.34*	37-85
20 Isophorone	500.0	313.1	62.62	42-91
21 2-Nitrophenol	500.0	355.5	71.09	40-86
22 2,4-Dimethylphenol	500.0	273.9	54.77	23-85
23 Bis(2-Chloroethoxy	500.0	316.3	63.27	40-87
24 Benzoic acid	1500	1029	68.59	29-104
25 2,4-Dichlorophenol	500.0	367.6	73.52	42-88
26 1,2,4-Trichloroben	500.0	388.0	77.60	40-81
28 Naphthalene	500.0	351.1	70.21	41-80
29 4-Chloroaniline	1200	334.3	27.86	14-80
30 Hexachlorobutadien	500.0	366.5	73.29	37-85
31 4-Chloro-3-methylp	500.0	315.9	63.18	40-94
32 2-Methylnaphthalen	500.0	339.7	67.93	44-82
33 Hexachlorocyclopen	1500	1120	74.65	10-98
34 2,4,6-Trichlorophe	500.0	367.1	73.41	42-88
35 2,4,5-Trichlorophe	500.0	380.8	76.16	41-89
37 2-Chloronaphthalen	500.0	370.5	74.11	42-82
38 2-Nitroaniline	500.0	306.9	61.39	35-101
39 Dimethylphthalate	500.0	333.3	66.66	44-91
40 Acenaphthylene	500.0	333.2	66.63	44-84
41 2,6-Dinitrotoluene	500.0	363.1	72.61	42-97

OK

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	1280	442.3	34.55	25-93
44 Acenaphthene	500.0	337.5	67.50	42-85
45 2,4-Dinitrophenol	1500	1435	95.67	10-179
46 Dibenzofuran	500.0	341.0	68.20	46-84
47 4-Nitrophenol	500.0	304.7	60.93	26-97
48 2,4-Dinitrotoluene	500.0	352.7	70.55	41-101
49 Fluorene	500.0	347.8	69.56	44-88
50 Diethylphthalate	500.0	324.8	64.96	46-94
51 4-Chlorophenyl-phe	500.0	361.0	72.20	44-87
52 4-Nitroaniline	500.0	207.0	41.41	24-89
53 4,6-Dinitro-2-meth	1500	1391	92.73	22-128
54 N-Nitrosodiphenyla	500.0	320.6	64.11	40-111
56 4-Bromophenyl-phen	500.0	346.2	69.24	43-91
57 Hexachlorobenzene	500.0	384.7	76.95	42-90
58 Pentachlorophenol	500.0	324.6	64.92	34-94
60 Phenanthrene	500.0	388.0	77.59	45-90
61 Anthracene	500.0	345.7	69.13	42-87
62 Carbazole	500.0	356.5	71.29	43-93
63 Di-n-butylphthalat	500.0	354.3	70.86	48-99
64 Fluoranthene	500.0	380.5	76.11	43-98
65 Pyrene	500.0	429.4	85.87	39-99
67 Butylbenzylphthala	500.0	382.9	76.58	41-105
68 Benzo(a)anthracene	500.0	391.4	78.28	42-94
70 3,3'-Dichlorobenzi	1280	199.5	15.58	14-84
71 Chrysene	500.0	405.8	81.16	45-92
72 bis(2-Ethylhexyl)p	500.0	406.2	81.24	34-111
73 Di-n-octylphthalat	500.0	395.6	79.11	32-107
74 Benzo(b)fluoranth	500.0	387.3	77.47	43-105
75 Benzo(k)fluoranth	500.0	441.7	88.34	40-108
76 Benzo(a)pyrene	500.0	361.6	72.32	41-95
78 Indeno(1,2,3-cd)py	500.0	385.9	77.17	28-101
79 Dibenzo(a,h)anthra	500.0	460.1	92.03	32-104
80 Benzo(g,h,i)peryle	500.0	453.4	90.68	18-106
91 Aniline	500.0	361.6	72.32*	10-71
111 Azobenzene (1,2-DP	500.0	319.8	63.96	40-94
90 N-Nitrosodimethyla	500.0	266.7	53.33	31-75
105 1-methylnaphthalen	500.0	352.6	70.52	43-87

OK

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	750.0	494.9	65.98	11-106
\$ 2 Phenol-d5	750.0	495.9	66.12	31-91
\$ 5 2-Chlorophenol-d4	750.0	511.3	68.18	32-91

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 10 1,2-Dichlorobenzen	500.0	351.9	70.29	35-85
\$ 18 Nitrobenzene-d5	500.0	311.0	62.20	34-91
\$ 36 2-Fluorobiphenyl	500.0	351.0	70.20	37-94
\$ 55 2,4,6-Tribromophen	750.0	581.4	77.51	25-117
\$ 66 Terphenyl-d14	500.0	402.9	80.58	39-105

Date: 06-MAY-2009 17:07

Client ID: QW90LCSS1

Sample Info: QW90LCSS1

Volume Injected (uL): 1.0

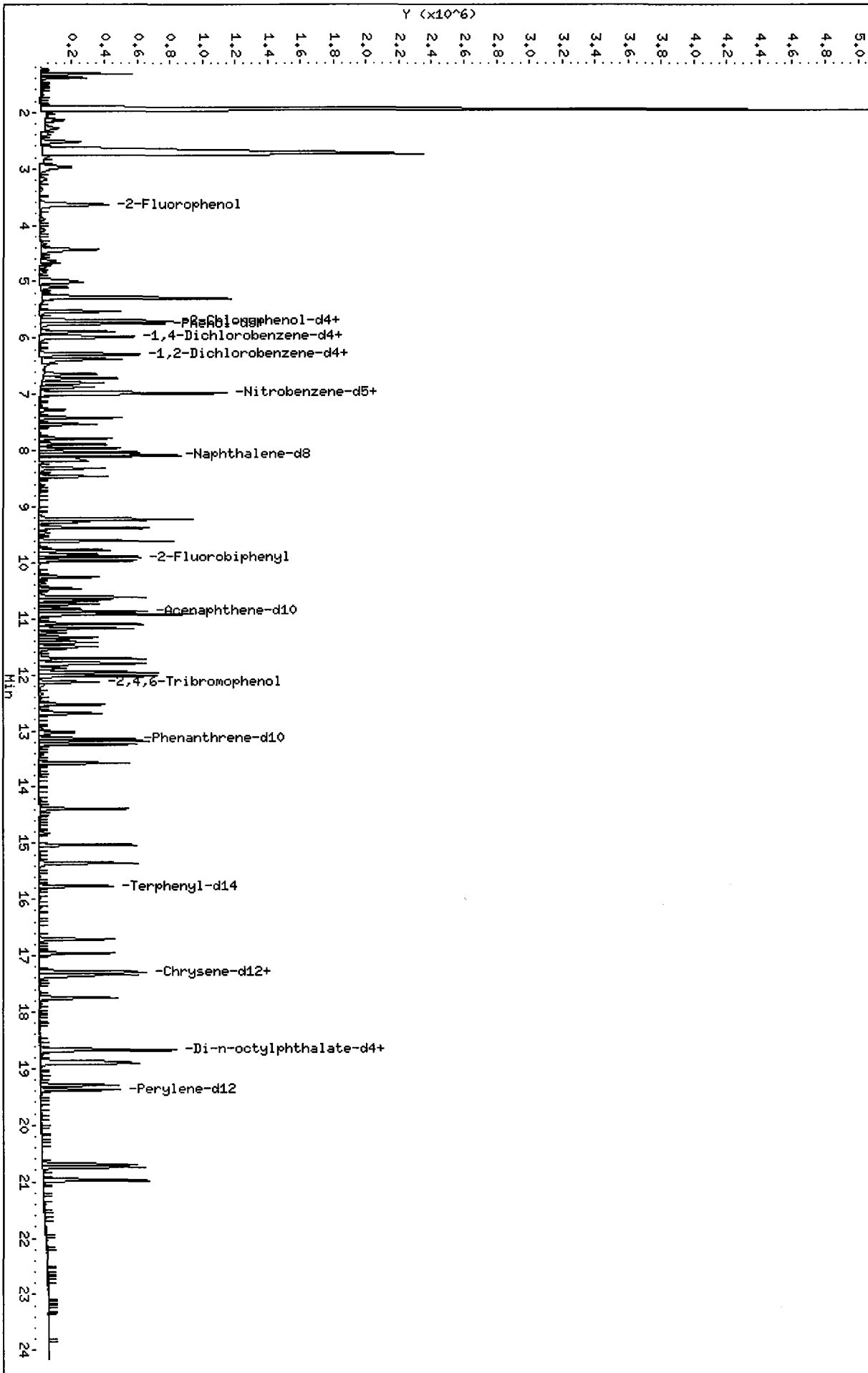
Column phase: ZB-5

Instrument: nt4.1

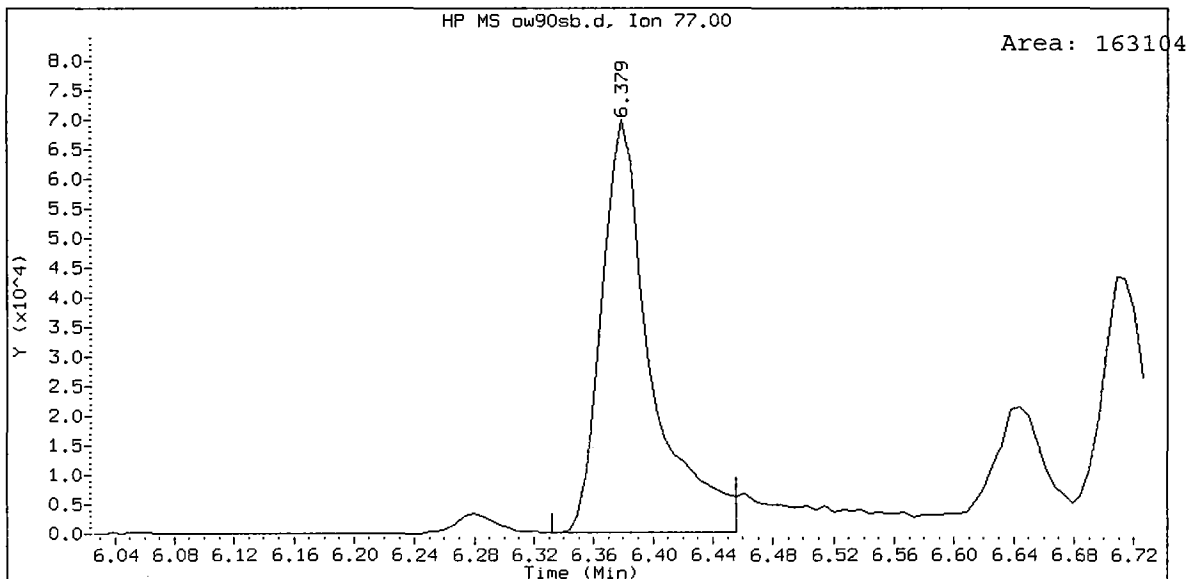
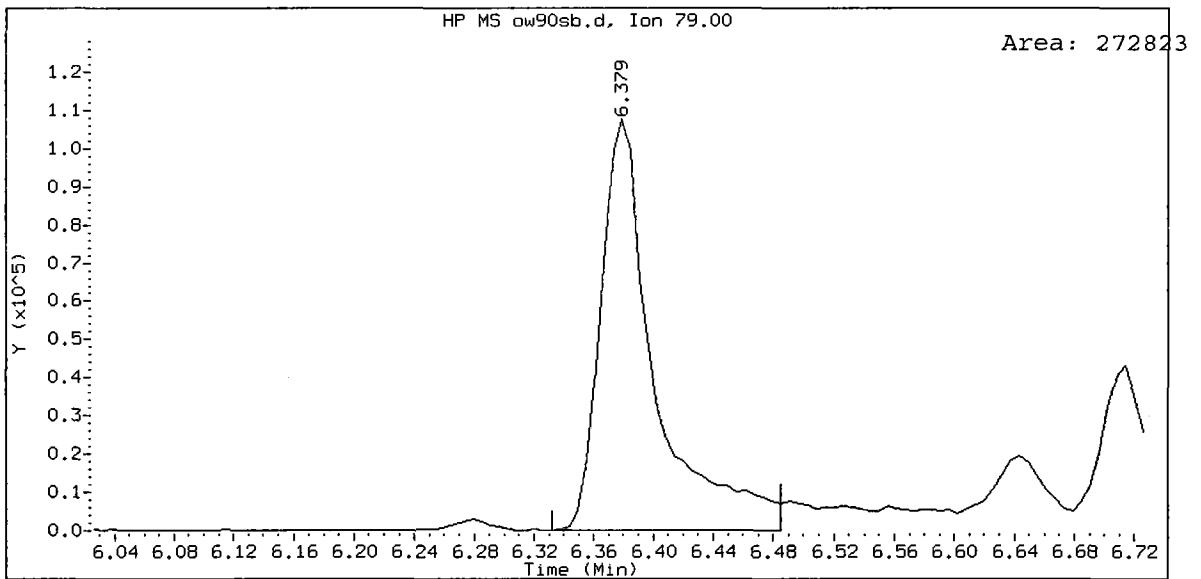
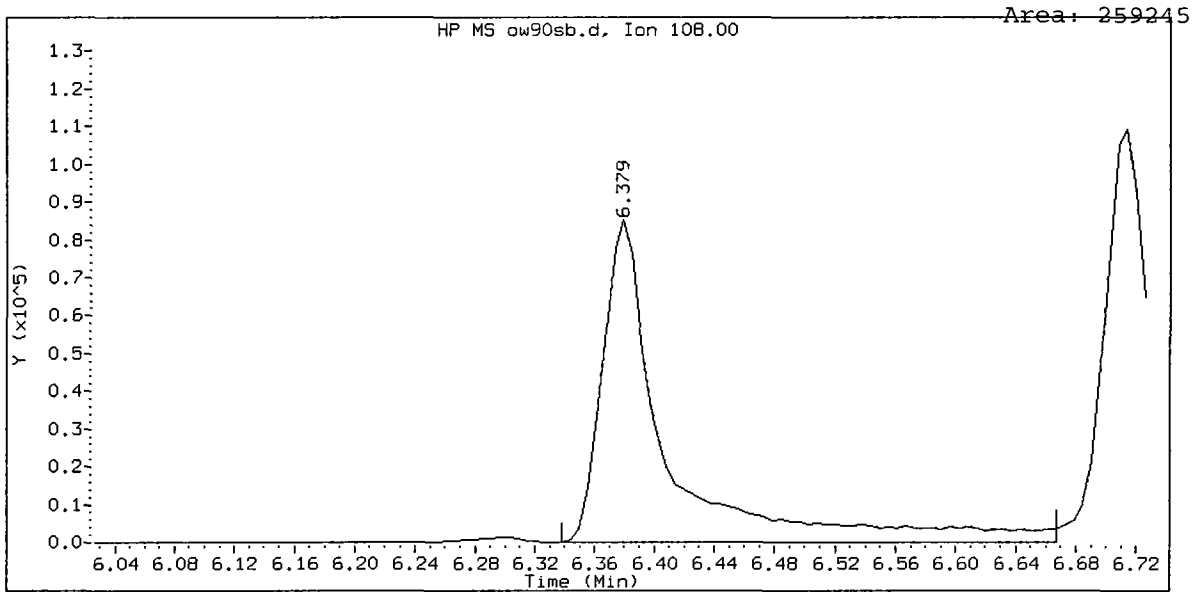
Operator: LJR/VTS

Column diameter: 0.32

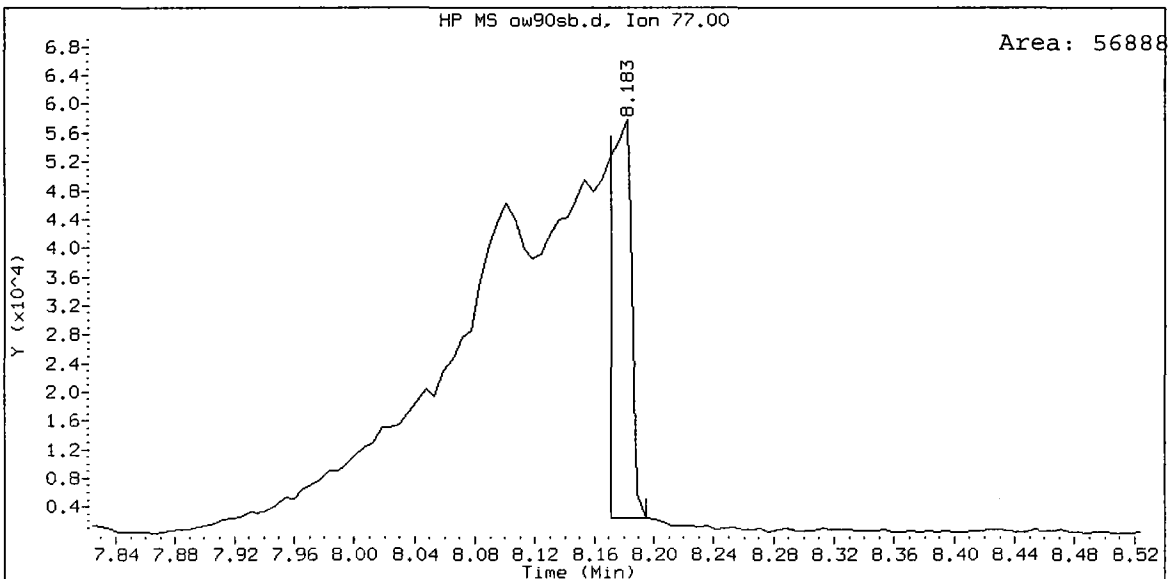
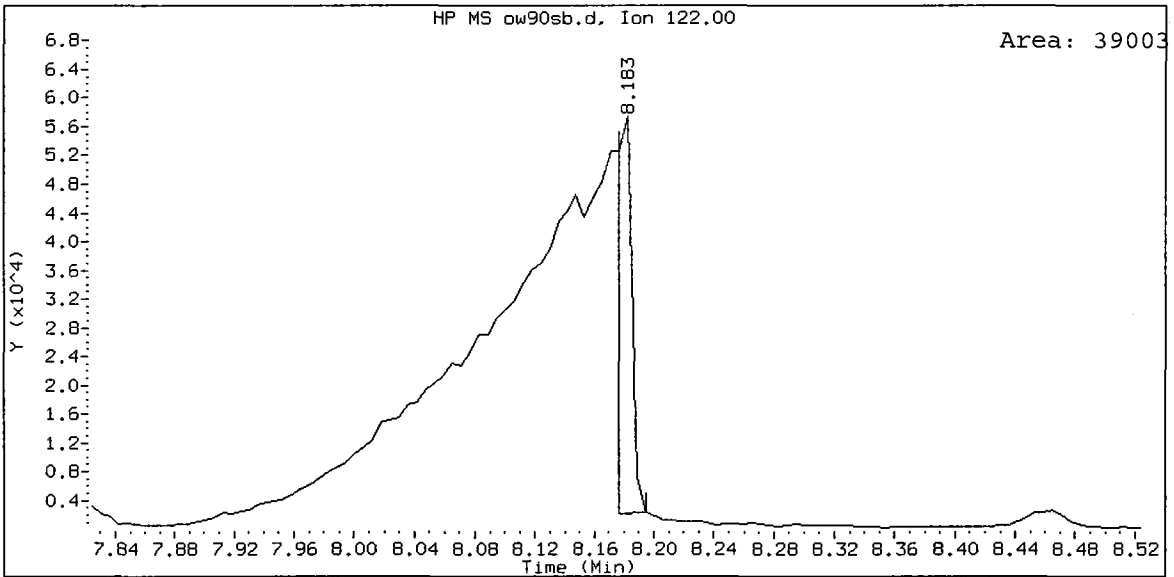
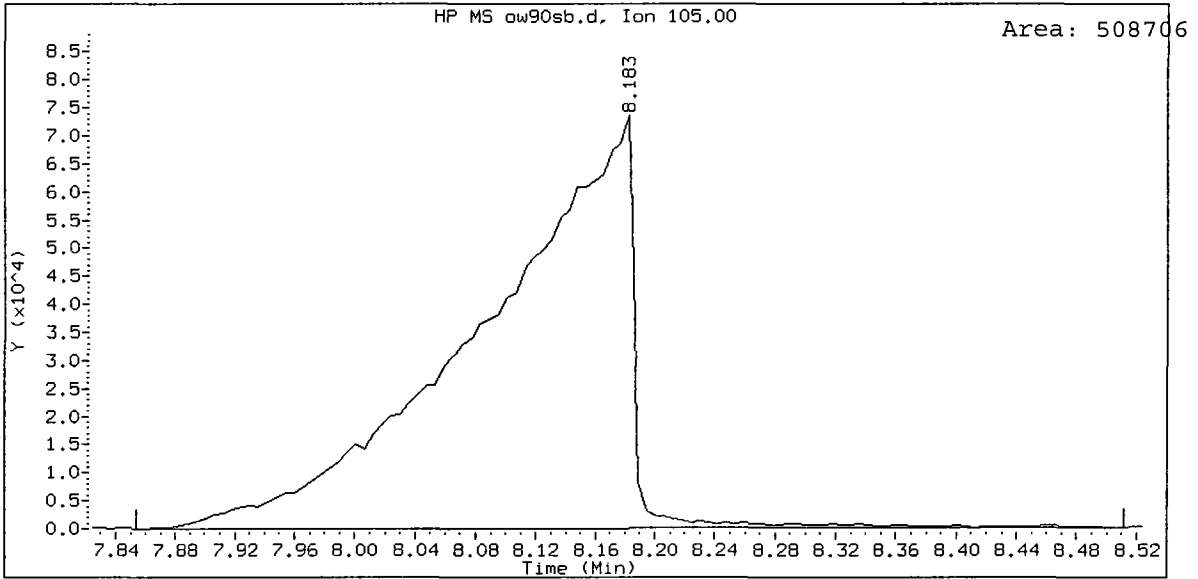
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OW90LCSS1, /chem3/nt4.i/20090506.b/ow90sb.d
Benzyl alcohol Amount: 27.85

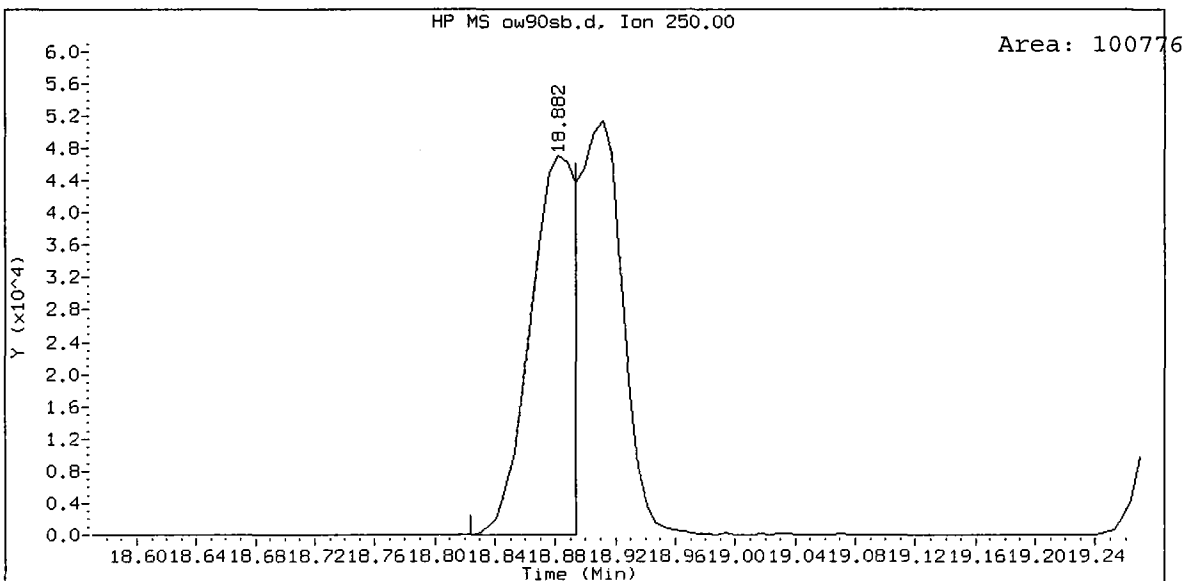
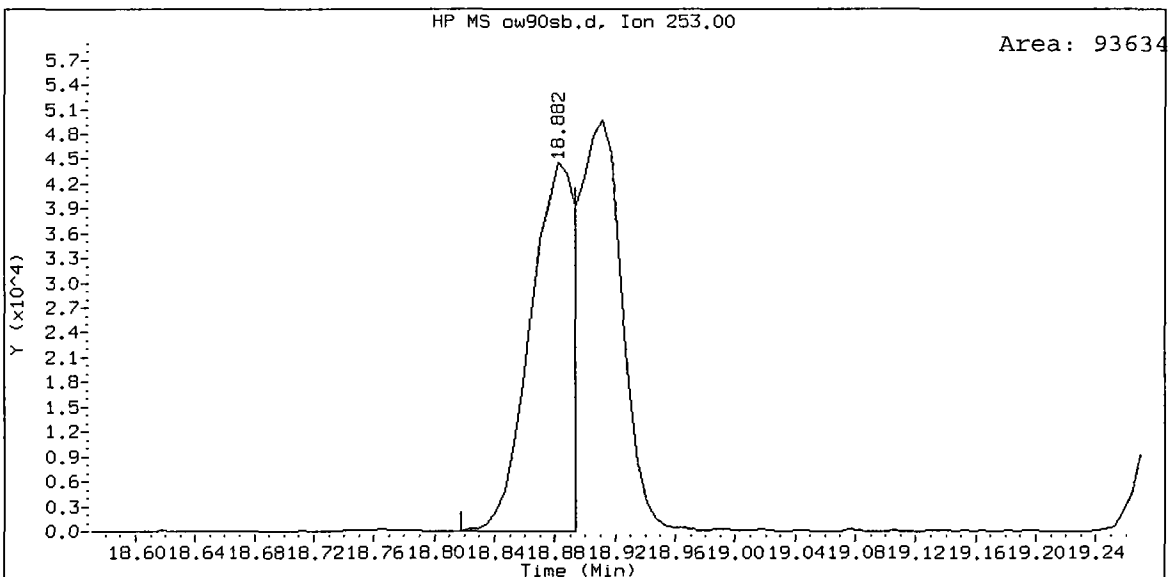
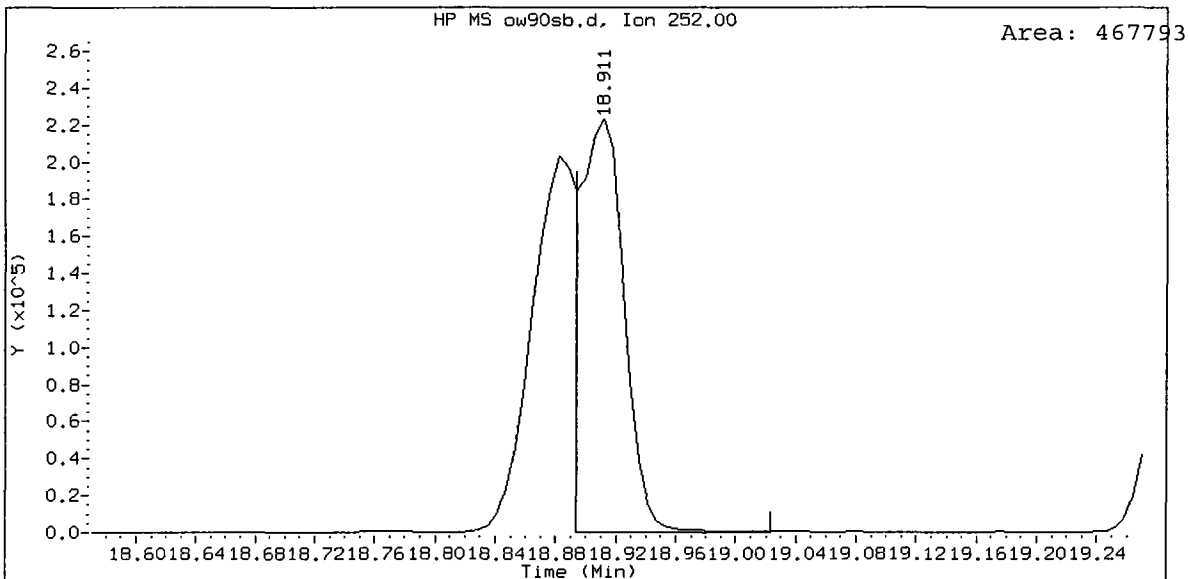


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Benzoic acid Amount: 51.44




OW90 : 00275

OW90LCSS1, /chem3/nt4.i/20090506.b/ow90sb.d
Benzo(k)fluoranthene Amount: 22.08



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654028
MATRIX SPIKE

Lab Sample ID: OW90F
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 21:33
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.7 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 35.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	19	---
106-46-7	1,4-Dichlorobenzene	19	---
100-51-6	Benzyl Alcohol	19	---
95-50-1	1,2-Dichlorobenzene	19	---
95-48-7	2-Methylphenol	19	---
106-44-5	4-Methylphenol	19	---
105-67-9	2,4-Dimethylphenol	19	---
65-85-0	Benzoic Acid	190	---
120-82-1	1,2,4-Trichlorobenzene	19	---
91-20-3	Naphthalene	19	---
87-68-3	Hexachlorobutadiene	19	---
91-57-6	2-Methylnaphthalene	19	---
131-11-3	Dimethylphthalate	19	---
208-96-8	Acenaphthylene	19	---
83-32-9	Acenaphthene	19	---
132-64-9	Dibenzofuran	19	---
84-66-2	Diethylphthalate	19	---
86-73-7	Fluorene	19	---
86-30-6	N-Nitrosodiphenylamine	19	---
118-74-1	Hexachlorobenzene	19	---
87-86-5	Pentachlorophenol	97	---
85-01-8	Phenanthrene	19	---
120-12-7	Anthracene	19	---
84-74-2	Di-n-Butylphthalate	19	---
206-44-0	Fluoranthene	19	---
129-00-0	Pyrene	19	---
85-68-7	Butylbenzylphthalate	19	---
56-55-3	Benzo (a) anthracene	19	---
117-81-7	bis (2-Ethylhexyl) phthalate	19	---
218-01-9	Chrysene	19	---
117-84-0	Di-n-Octyl phthalate	19	---
205-99-2	Benzo (b) fluoranthene	19	---
207-08-9	Benzo (k) fluoranthene	19	---
50-32-8	Benzo (a) pyrene	19	---
193-39-5	Indeno (1,2,3-cd) pyrene	19	---
53-70-3	Dibenz (a,h) anthracene	19	---
191-24-2	Benzo (g,h,i) perylene	19	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.6%	2-Fluorobiphenyl	65.2%
d14-p-Terphenyl	60.0%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	61.1%	2-Fluorophenol	58.4%
2,4,6-Tribromophenol	74.4%	d4-2-Chlorophenol	61.6%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090506.b/ow90fms.d
 Lab Smp Id: OW90FMS Client Smp ID: 10654028 MS
 Inj Date : 06-MAY-2009 21:33
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90FMS
 Misc Info : 09-10073
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:49 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 12 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 3.50

ETK
5/7/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	39.60000	Weight of sample extracted (g)
M	35.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol		112	3.678	3.619	(0.616)	269183	21.8586	424.6
\$ 2 Phenol-d5		99	5.758	5.734	(0.965)	375862	22.8575	444.0
3 Phenol		94	5.781	5.752	(0.968)	262652	13.5187	262.6
\$ 5 2-Chlorophenol-d4		132	5.693	5.676	(0.954)	227877	23.0879	448.5
4 Bis(2-Chloroethyl)ether		93	5.711	5.705	(0.957)	191438	13.1980	256.4
6 2-Chlorophenol		128	5.723	5.705	(0.959)	172723	14.7709	286.9
7 1,3-Dichlorobenzene		146	5.893	5.893	(0.987)	184539	14.6956	285.5
* 8 1,4-Dichlorobenzene-d4		152	5.969	5.975	(1.000)	150691	20.0000	
9 1,4-Dichlorobenzene		146	5.999	5.999	(1.005)	179302	14.4997	281.7
\$ 10 1,2-Dichlorobenzene-d4		152	6.281	6.281	(1.052)	107637	15.3887	298.9
12 1,2-Dichlorobenzene		146	6.304	6.304	(1.056)	178818	15.3571	298.3
11 Benzyl alcohol		108	6.469	6.375	(1.084)	216221	24.8087	481.9(M)
14 2,2'-oxybis(1-Chloropropane)		45	6.645	6.645	(1.113)	210799	12.4430	241.7
13 2-Methylphenol		108	6.721	6.716	(1.126)	179463	14.9040	289.5
17 Hexachloroethane		117	6.798	6.804	(1.139)	77674	14.8041	287.6

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)	
-----	----	==	-----	-----	-----	-----	-----	
16 N-Nitroso-di-n-propylamine	70	6.880	6.880	(1.153)	134379	13.0808	254.1	
15 4-Methylphenol	108	6.986	6.968	(1.170)	361706	29.1165	565.6	
\$ 18 Nitrobenzene-d5	82	6.974	6.980	(0.865)	202581	14.9413	290.2	
19 Nitrobenzene	77	6.998	7.009	(0.867)	327617	23.0104	447.0 (R)	
20 Isophorone	82	7.426	7.421	(0.921)	363747	14.4136	280.0	
21 2-Nitrophenol	139	7.532	7.538	(0.934)	94213	16.4505	319.6	
22 2,4-Dimethylphenol	107	7.791	7.785	(0.966)	170934	14.5480	282.6	
23 Bis(2-Chloroethoxy)methane	93	7.885	7.891	(0.977)	218785	14.6313	284.2	
24 Benzoic acid	105	8.155	8.173	(1.011)	299909	32.9282	639.6 (M)	
25 2,4-Dichlorophenol	162	7.967	7.967	(0.988)	133472	16.9219	328.7	
26 1,2,4-Trichlorobenzene	180	8.032	8.038	(0.996)	143226	17.4325	338.6	
* 27 Naphthalene-d8	136	8.067	8.073	(1.000)	494696	20.0000		
28 Naphthalene	128	8.096	8.102	(1.004)	452703	16.3014	316.7	
29 4-Chloroaniline	127	Compound Not Detected.						
30 Hexachlorobutadiene	225	8.461	8.467	(1.049)	68916	16.4158	318.9	
31 4-Chloro-3-methylphenol	107	9.236	9.230	(1.145)	152163	15.5531	302.1	
32 2-Methylnaphthalene	141	9.218	9.219	(1.143)	248434	15.9074	309.0	
33 Hexachlorocyclopentadiene	237	9.606	9.606	(0.884)	135446	36.0405	700.1	
34 2,4,6-Trichlorophenol	196	9.777	9.783	(0.900)	101210	20.3655	395.6	
35 2,4,5-Trichlorophenol	196	9.847	9.841	(0.906)	89303	17.5184	340.3	
\$ 36 2-Fluorobiphenyl	172	9.888	9.894	(0.910)	297685	16.2963	316.6	
37 2-Chloronaphthalene	162	9.965	9.971	(0.917)	271445	17.6081	342.0	
38 2-Nitroaniline	65	10.258	10.259	(0.944)	82792	12.5976	244.7	
39 Dimethylphthalate	163	10.670	10.670	(0.982)	269900	14.9358	290.1	
40 Acenaphthylene	152	10.605	10.611	(0.976)	435178	16.3416	317.4	
41 2,6-Dinitrotoluene	165	10.734	10.740	(0.988)	66032	16.2320	315.3	
* 42 Acenaphthene-d10	164	10.864	10.864	(1.000)	247070	20.0000		
43 3-Nitroaniline	138	10.934	10.923	(1.006)	18767	3.81658	74.14 (R)	
44 Acenaphthene	153	10.911	10.911	(1.004)	261257	16.1704	314.1	
45 2,4-Dinitrophenol	184	11.087	11.093	(1.021)	133946	68.4117	1329	
46 Dibenzofuran	168	11.169	11.175	(1.028)	362638	16.3862	318.3	
47 4-Nitrophenol	109	11.381	11.369	(1.048)	49460	18.8381	365.9	
48 2,4-Dinitrotoluene	165	11.328	11.334	(1.043)	92942	17.3693	337.4	
50 Diethylphthalate	149	11.804	11.810	(1.087)	276093	15.1724	294.7	
49 Fluorene	166	11.704	11.704	(1.077)	297141	16.8191	326.7	
51 4-Chlorophenyl-phenylether	204	11.786	11.792	(1.085)	129071	17.3462	337.0	
52 4-Nitroaniline	138	11.892	11.892	(1.095)	21861	4.58732	89.11 (RM)	
53 4,6-Dinitro-2-methylphenol	198	11.956	11.962	(0.910)	166943	64.9847	1262	
54 N-Nitrosodiphenylamine	169	12.009	12.009	(0.914)	175463	14.2802	277.4	
\$ 55 2,4,6-Tribromophenol	330	12.127	12.133	(1.116)	59174	27.8508	541.0	
56 4-Bromophenyl-phenylether	248	12.532	12.532	(0.954)	68633	15.9972	310.7	
57 Hexachlorobenzene	284	12.691	12.697	(0.966)	76136	17.5789	341.5	
58 Pentachlorophenol	266	13.026	13.026	(0.991)	48551	18.9564	368.2	
* 59 Phenanthrene-d10	188	13.143	13.143	(1.000)	347713	20.0000		
60 Phenanthrene	178	13.173	13.179	(1.002)	438984	19.3432	375.7	
61 Anthracene	178	13.243	13.243	(1.008)	367614	15.7263	305.5	
62 Carbazole	167	13.578	13.578	(1.033)	360188	16.8281	326.9	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)	
63 Di-n-butylphthalate	149	14.407	14.395	(1.096)	440676	15.7602	306.1	
64 Fluoranthene	202	15.047	15.041	(1.145)	431425	19.2445	373.8	
65 Pyrene	202	15.364	15.364	(0.888)	448200	17.1457	333.1	
* 66 Terphenyl-d14	244	15.775	15.776	(0.911)	238394	15.0153	291.7	
67 Butylbenzylphthalate	149	16.716	16.716	(0.966)	231710	16.5209	320.9	
68 Benzo(a)anthracene	228	17.285	17.286	(0.999)	422322	18.2344	354.2	
* 69 Chrysene-d12	240	17.309	17.309	(1.000)	325780	20.0000		
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
71 Chrysene	228	17.344	17.344	(1.002)	424653	18.6147	361.6	
72 bis(2-Ethylhexyl)phthalate	149	17.756	17.750	(0.951)	328523	18.1672	352.9	
* 134 Di-n-octylphthalate-d4	153	18.666	18.672	(1.000)	570421	20.0000		
73 Di-n-octylphthalate	149	18.678	18.678	(1.001)	579791	18.1204	352.0	
74 Benzo(b)fluoranthene	252	18.884	18.884	(0.975)	447218	17.8998	347.7	
75 Benzo(k)fluoranthene	252	18.913	18.919	(0.976)	537360	22.3812	434.8 (M)	
76 Benzo(a)pyrene	252	19.301	19.301	(0.996)	393756	17.3681	337.4	
* 77 Perylene-d12	264	19.377	19.383	(1.000)	348466	20.0000		
78 Indeno(1,2,3-cd)pyrene	276	20.699	20.699	(1.068)	424546	15.0575	292.5	
79 Dibenzo(a,h)anthracene	278	20.740	20.746	(1.070)	423241	18.1995	353.5	
80 Benzo(g,h,i)perylene	276	20.975	20.981	(1.082)	422303	16.9186	328.6	
90 N-Nitrosodimethylamine	74	1.322	1.293	(0.221)	121095	12.3967	240.8	
91 Aniline	93	Compound Not Detected.						
93 Benzidine	184	Compound Not Detected.						
103 Pyridine	79	1.433	1.281	(0.240)	32880	1.97171	38.30 (H)	
105 1-methylnaphthalene	141	9.377	9.377	(1.162)	247468	16.5622	321.7	
111 Azobenzene (1,2-DP-Hydrazine)	77	12.021	12.027	(1.107)	344969	14.2041	275.9	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90fms.d
 Lab Smp Id: OW90FMS
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: 10654028 MS
 Level: LOW
 Sample Type: Sediment

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	150691	-12.62
27 Naphthalene-d8	608124	304062	1216248	494696	-18.65
42 Acenaphthene-d10	305977	152988	611954	247070	-19.25
59 Phenanthrene-d10	428646	214323	857292	347713	-18.88
69 Chrysene-d12	348476	174238	696952	325780	-6.51
134 Di-n-octylphthala	674761	337380	1349522	570421	-15.46
77 Perylene-d12	426588	213294	853176	348466	-18.31

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.10
27 Naphthalene-d8	8.07	7.57	8.57	8.07	-0.07
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	0.00
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	0.00
69 Chrysene-d12	17.31	16.81	17.81	17.31	0.00
134 Di-n-octylphthala	18.67	18.17	19.17	18.67	-0.03
77 Perylene-d12	19.38	18.88	19.88	19.38	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix Client SDG: OW90
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: OW90FMS Client Smp ID: 10654028 MS
 Level: LOW Operator: LJR/VTS
 Data Type: MS DATA SampleType: MS
 SpikeList File: PSDDALCS.spk Quant Type: ISTD
 Sublist File: PSDDA.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	485.6	262.6	54.07	37-92
4 Bis(2-Chloroethyl)	485.6	256.4	52.79	40-83
6 2-Chlorophenol	485.6	286.9	59.08	42-80
7 1,3-Dichlorobenzen	485.6	285.5	58.78	39-75
9 1,4-Dichlorobenzen	485.6	281.7	58.00	40-75
11 Benzyl alcohol	971.3	481.9	49.62	25-90
12 1,2-Dichlorobenzen	485.6	298.3	61.43	40-76
13 2-Methylphenol	485.6	289.5	59.62	40-86
14 2,2'-oxybis(1-Chlo	485.6	241.7	49.77	26-100
15 4-Methylphenol	971.3	565.6	58.23	40-92
16 N-Nitroso-di-n-pro	485.6	254.1	52.32	29-95
17 Hexachloroethane	485.6	287.6	59.22	37-73
19 Nitrobenzene	485.6	447.0	92.04*	37-85
20 Isophorone	485.6	280.0	57.65	42-91
21 2-Nitrophenol	485.6	319.6	65.80	40-86
22 2,4-Dimethylphenol	485.6	282.6	58.19	23-85
23 Bis(2-Chloroethoxy	485.6	284.2	58.53	40-87
24 Benzoic acid	1457	639.6	43.90	29-104
25 2,4-Dichlorophenol	485.6	328.7	67.69	42-88
26 1,2,4-Trichloroben	485.6	338.6	69.73	40-81
28 Naphthalene	485.6	316.7	65.21	41-80
29 4-Chloroaniline	1166	0.000	*	14-80
30 Hexachlorobutadien	485.6	318.9	65.66	37-85
31 4-Chloro-3-methylp	485.6	302.1	62.21	40-94
32 2-Methylnaphthalen	485.6	309.0	63.63	44-82
33 Hexachlorocyclopen	1457	700.1	48.05	10-98
34 2,4,6-Trichlorophe	485.6	395.6	81.46	42-88
35 2,4,5-Trichlorophe	485.6	340.3	70.07	41-89
37 2-Chloronaphthalen	485.6	342.0	70.43	42-82
38 2-Nitroaniline	485.6	244.7	50.39	35-101
39 Dimethylphthalate	485.6	290.1	59.74	44-91
40 Acenaphthylene	485.6	317.4	65.37	44-84
41 2,6-Dinitrotoluene	485.6	315.3	64.93	42-97

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	1243	74.14	5.96*	25-93
44 Acenaphthene	485.6	314.1	64.68	42-85
45 2,4-Dinitrophenol	1457	1329	91.22	10-179
46 Dibenzofuran	485.6	318.3	65.54	46-84
47 4-Nitrophenol	485.6	365.9	75.35	26-97
48 2,4-Dinitrotoluene	485.6	337.4	69.48	41-101
49 Fluorene	485.6	326.7	67.28	44-88
50 Diethylphthalate	485.6	294.7	60.69	46-94
51 4-Chlorophenyl-phe	485.6	337.0	69.38	44-87
52 4-Nitroaniline	485.6	89.11	18.35*	24-89
53 4,6-Dinitro-2-meth	1457	1262	86.65	22-128
54 N-Nitrosodiphenyla	485.6	277.4	57.12	40-111
56 4-Bromophenyl-phen	485.6	310.7	63.99	43-91
57 Hexachlorobenzene	485.6	341.5	70.32	42-90
58 Pentachlorophenol	485.6	368.2	75.83	34-94
60 Phenanthrene	485.6	375.7	77.37	45-90
61 Anthracene	485.6	305.5	62.91	42-87
62 Carbazole	485.6	326.9	67.31	43-93
63 Di-n-butylphthalat	485.6	306.1	63.04	48-99
64 Fluoranthene	485.6	373.8	76.98	43-98
65 Pyrene	485.6	333.1	68.58	39-99
67 Butylbenzylphthala	485.6	320.9	66.08	41-105
68 Benzo(a)anthracene	485.6	354.2	72.94	42-94
70 3,3'-Dichlorobenz	1243	0.000	*	14-84
71 Chrysene	485.6	361.6	74.46	45-92
72 bis(2-Ethylhexyl)p	485.6	352.9	72.67	34-111
73 Di-n-octylphthalat	485.6	352.0	72.48	32-107
74 Benzo(b)fluoranthe	485.6	347.7	71.60	43-105
75 Benzo(k)fluoranthe	485.6	434.8	89.52	40-108
76 Benzo(a)pyrene	485.6	337.4	69.47	41-95
78 Indeno(1,2,3-cd)py	485.6	292.5	60.23	28-101
79 Dibenzo(a,h) anthra	485.6	353.5	72.80	32-104
80 Benzo(g,h,i)peryle	485.6	328.6	67.67	18-106
91 Aniline	485.6	0.000	*	10-71
111 Azobenzene (1,2-DP	485.6	275.9	56.82	40-94
90 N-Nitrosodimethyla	485.6	240.8	49.59	31-75
105 1-methylnaphthalen	485.6	321.7	66.25	43-87

OK

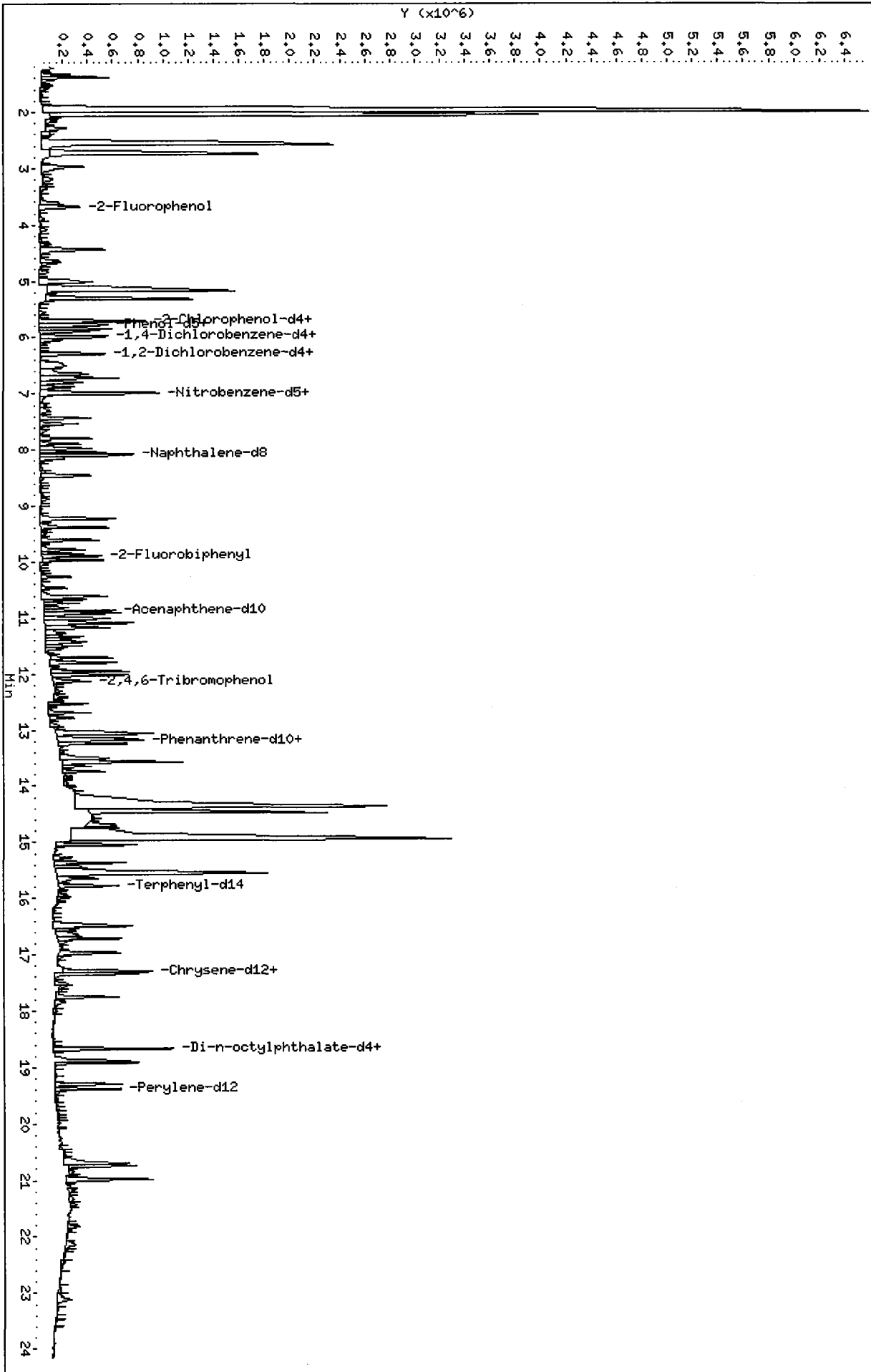
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	728.4	424.6	58.29	10-114
\$ 2 Phenol-d5	728.4	444.0	60.95	29-85
\$ 5 2-Chlorophenol-d4	728.4	448.5	61.57	30-84

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 10 1,2-Dichlorobenzen	485.6	298.9	61.55	25-82
\$ 18 Nitrobenzene-d5	485.6	290.2	59.77	29-87
\$ 36 2-Fluorobiphenyl	485.6	316.6	65.19	32-88
\$ 55 2,4,6-Tribromophen	728.4	541.0	74.27	25-103
\$ 66 Terphenyl-d14	485.6	291.7	60.06	21-97

Data File: /chem3/nt4.1/20090506.b/0w90fms.d
Date : 06-MAY-2009 21:33
Client ID: 10654028 HS
Sample Info: 0W90FMS
Volume Injected (uL): 1.0
Column phase: ZB-5

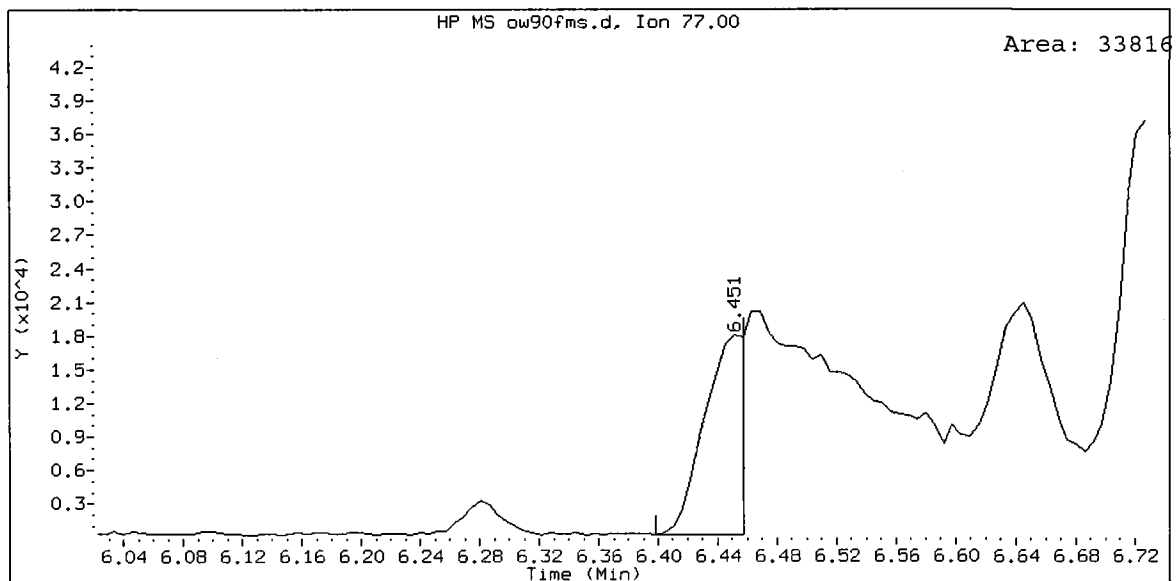
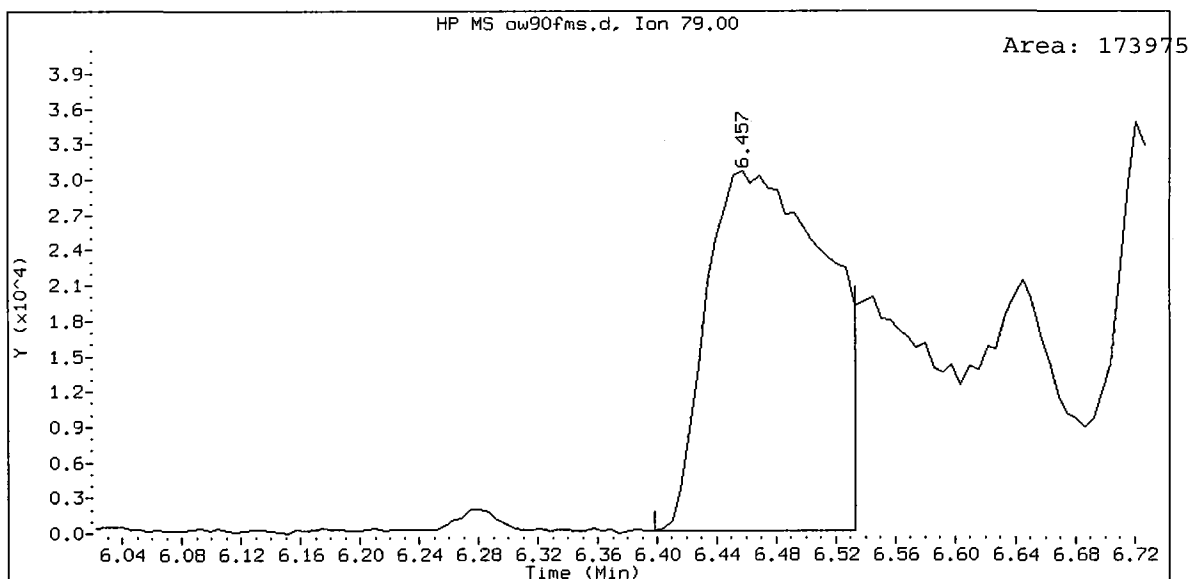
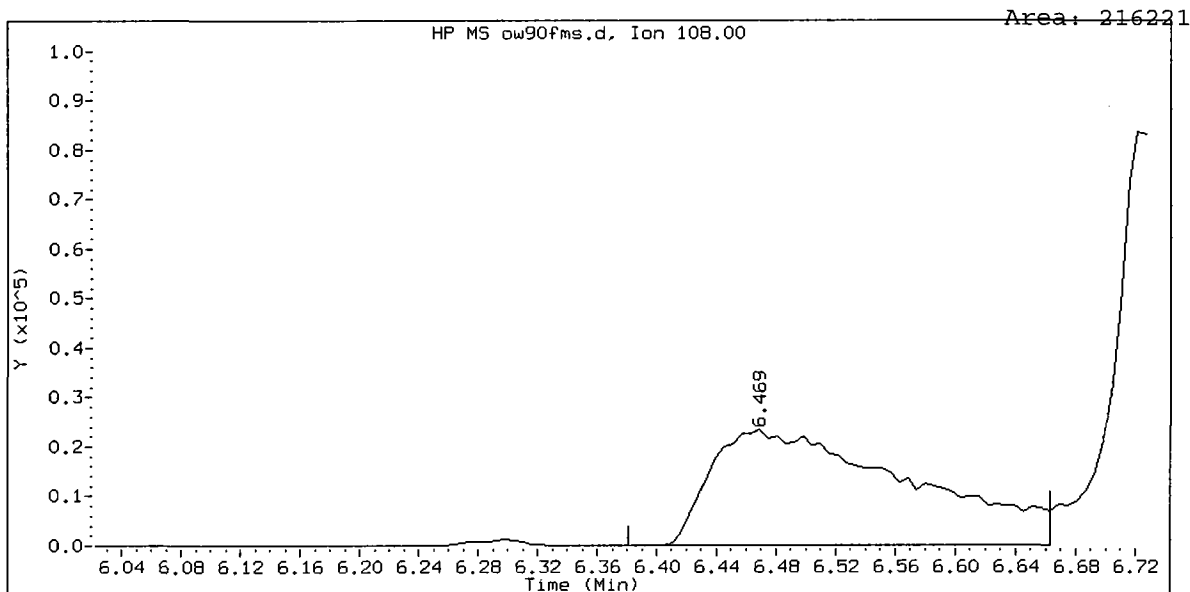
Instrument: nt4.1
Operator: LJR/VTS
Column diameter: 0.32

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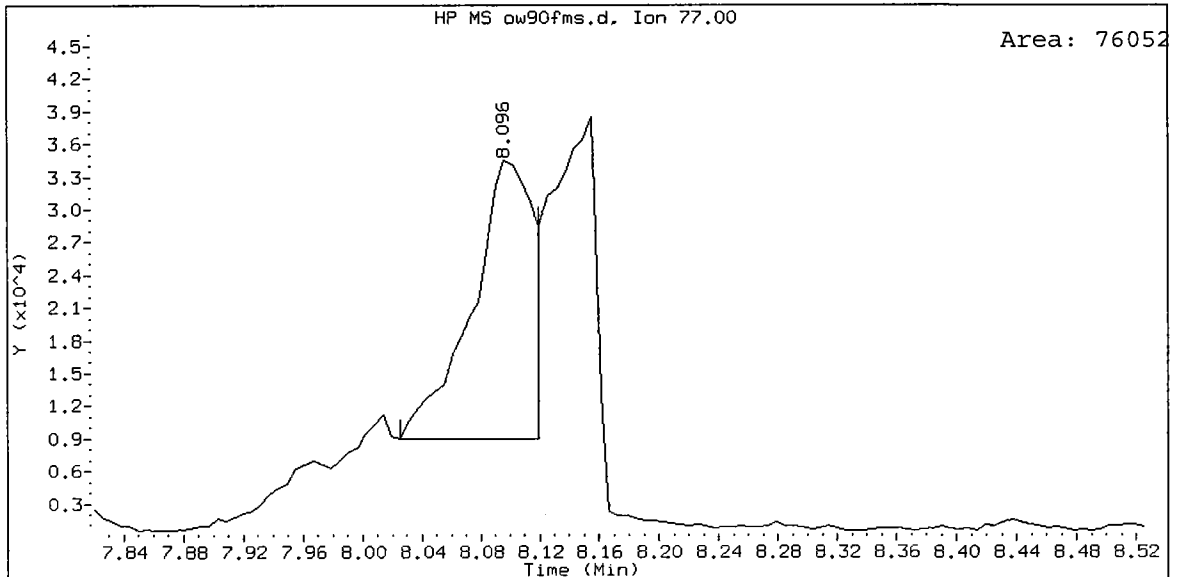
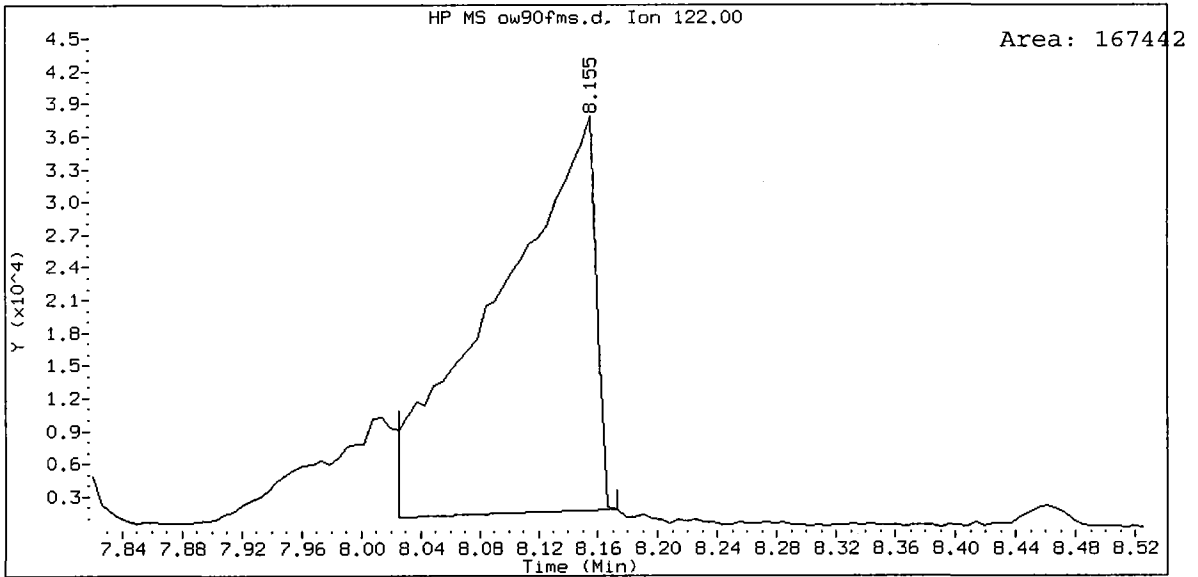
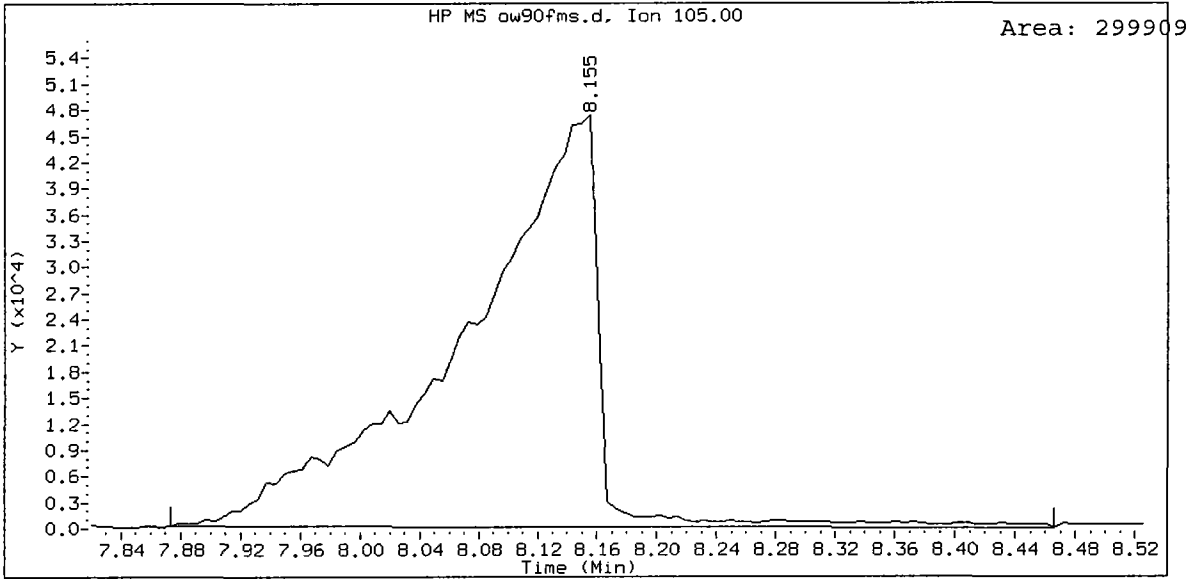


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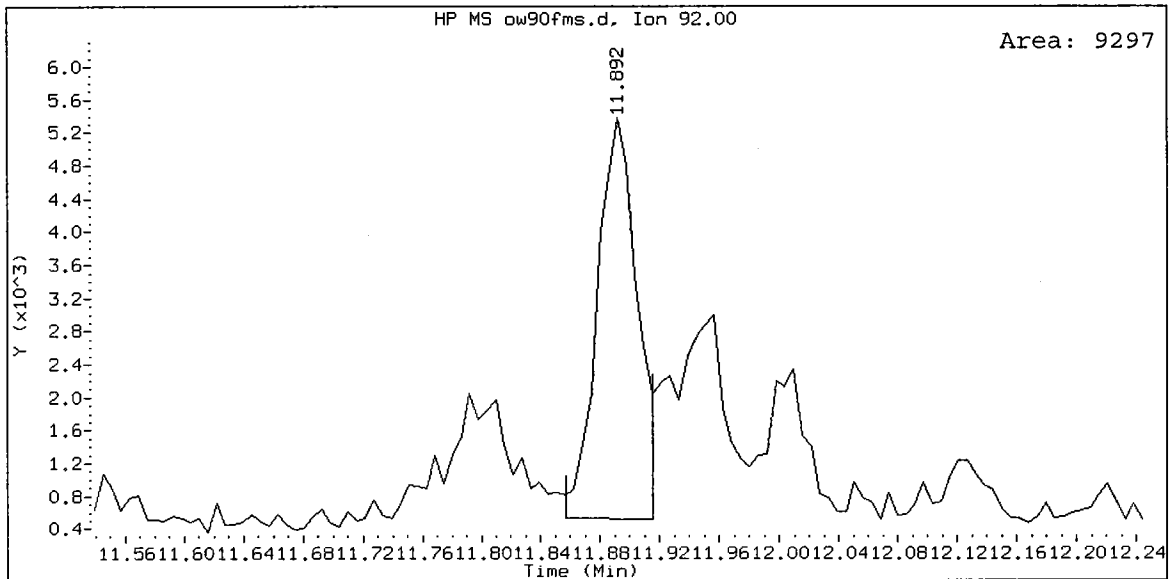
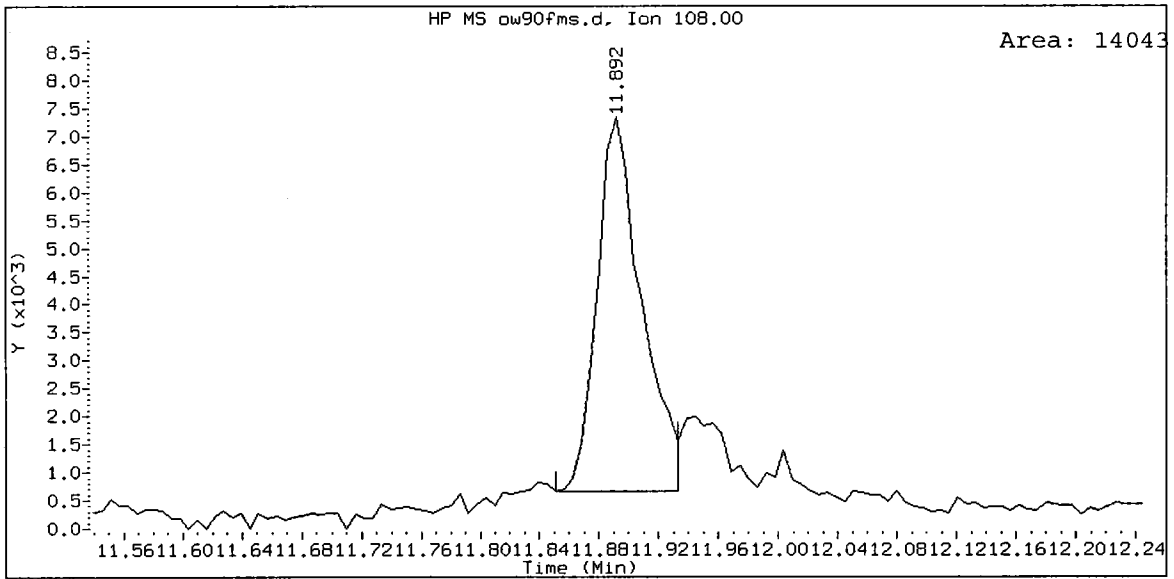
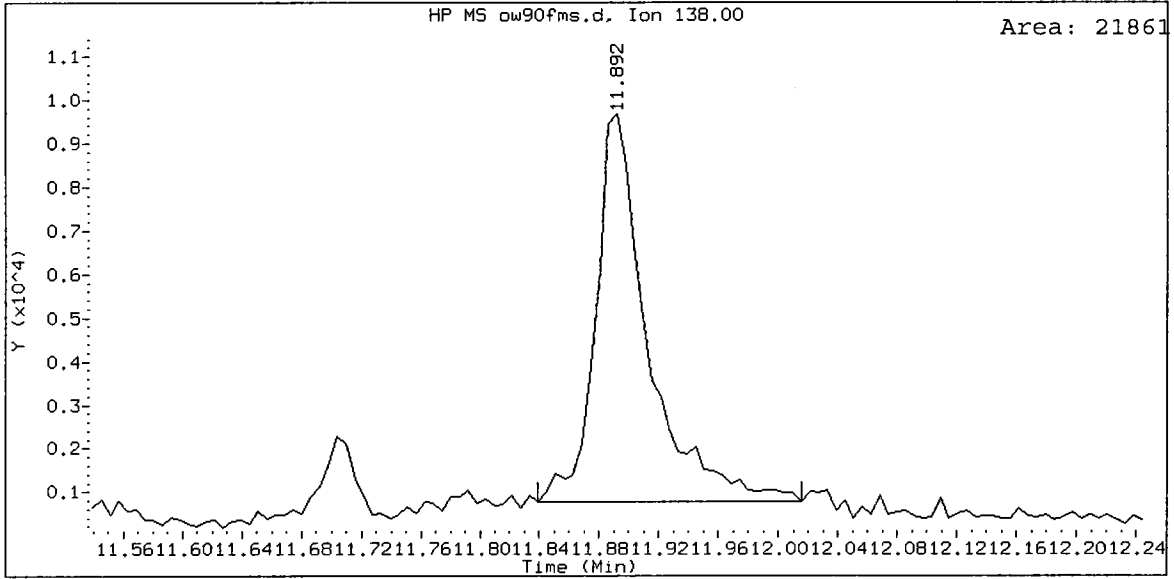
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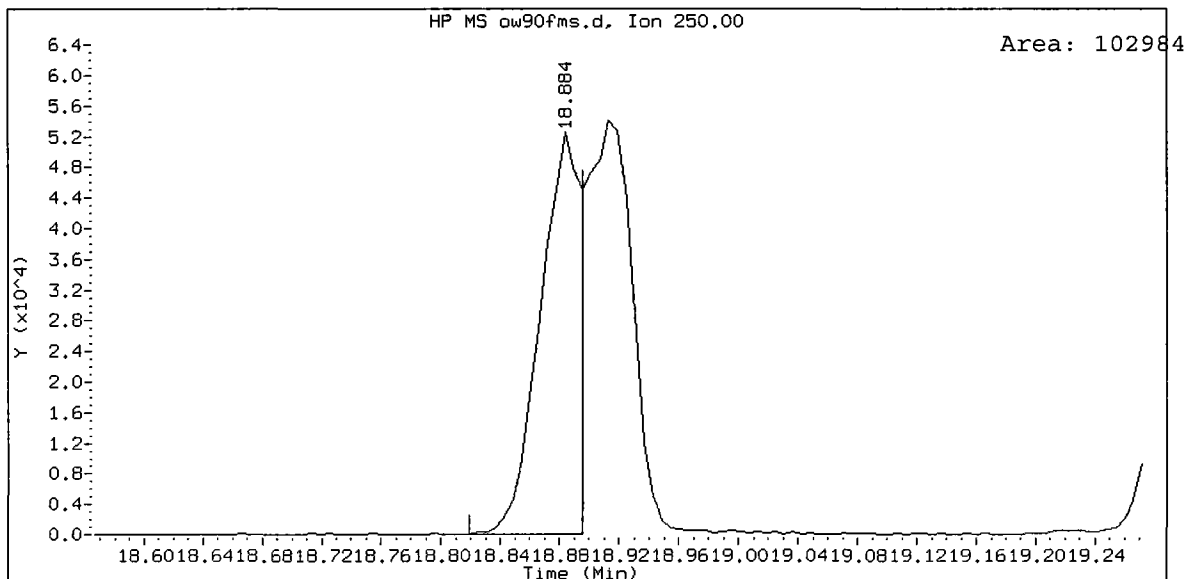
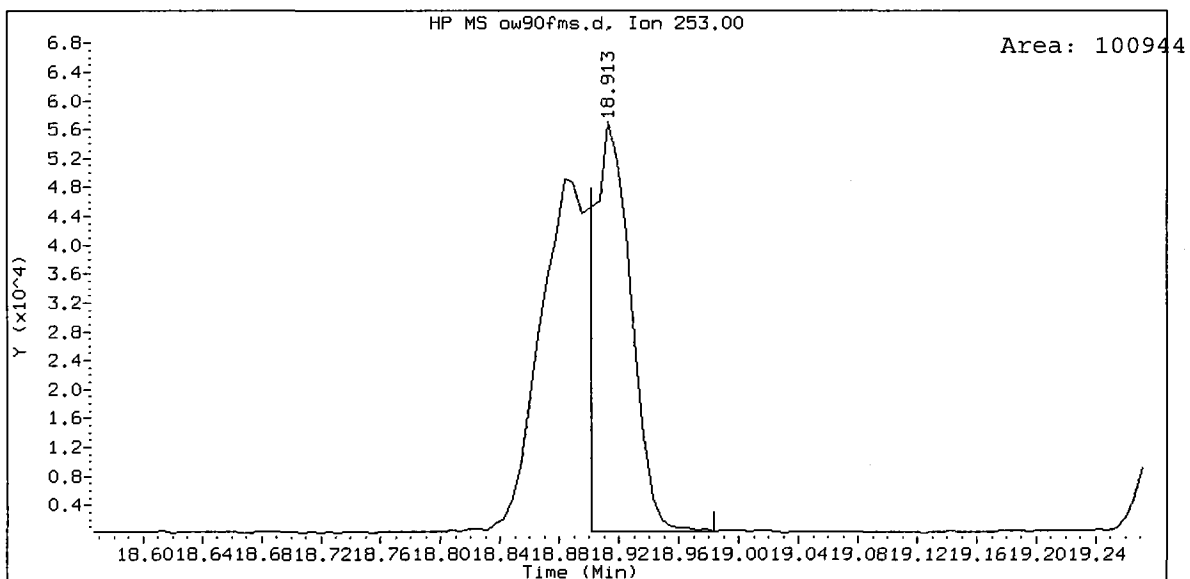
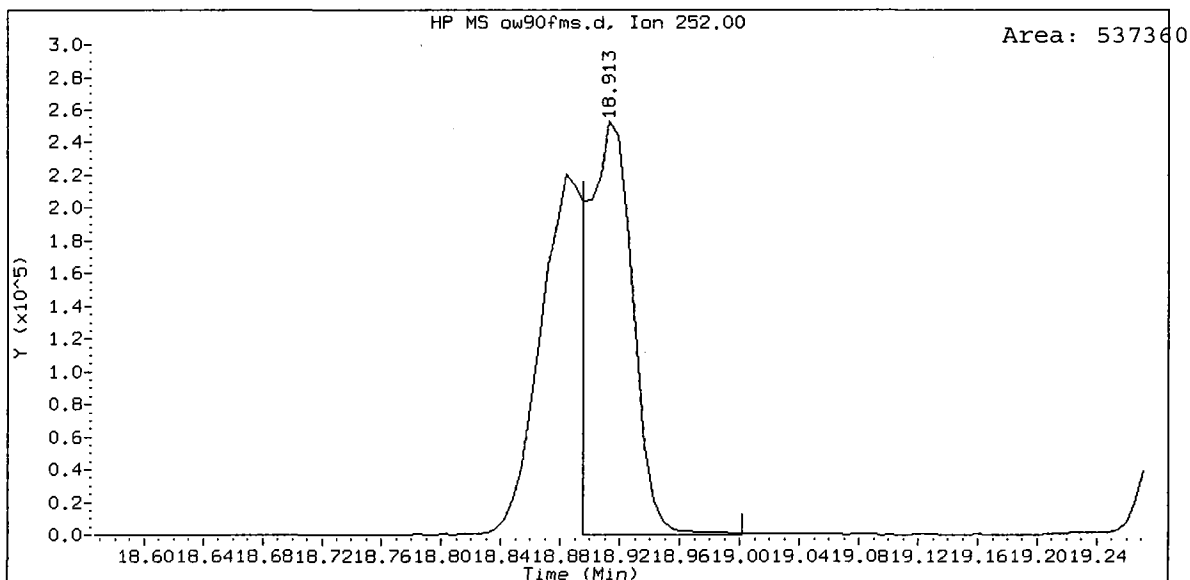
OW90FMS, /chem3/nt4.i/20090506.b/ow90fms.d
Benzoic acid Amount: 32.93



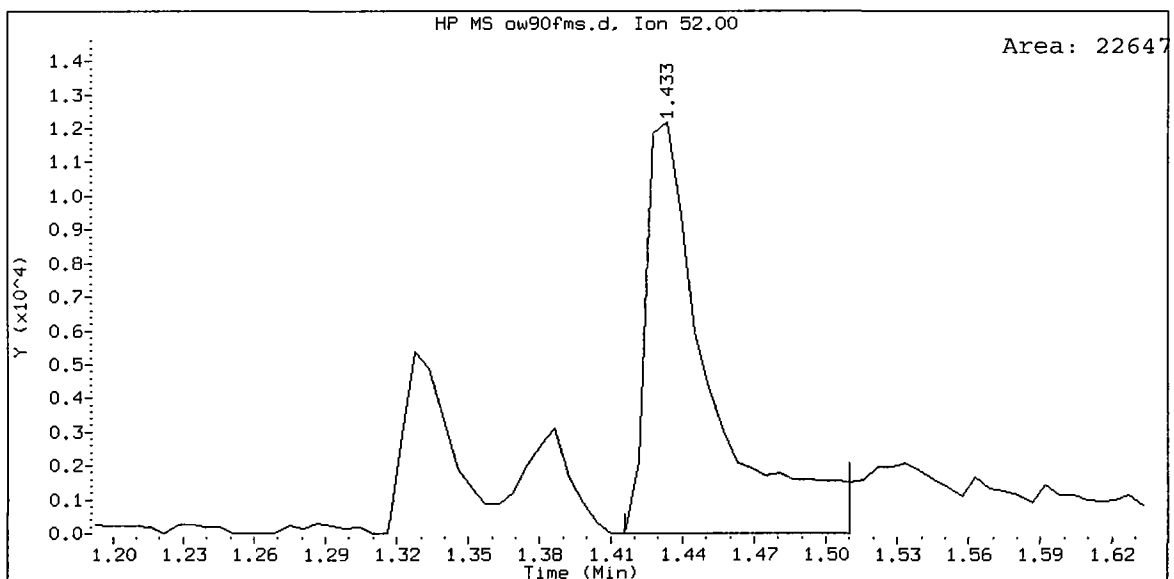
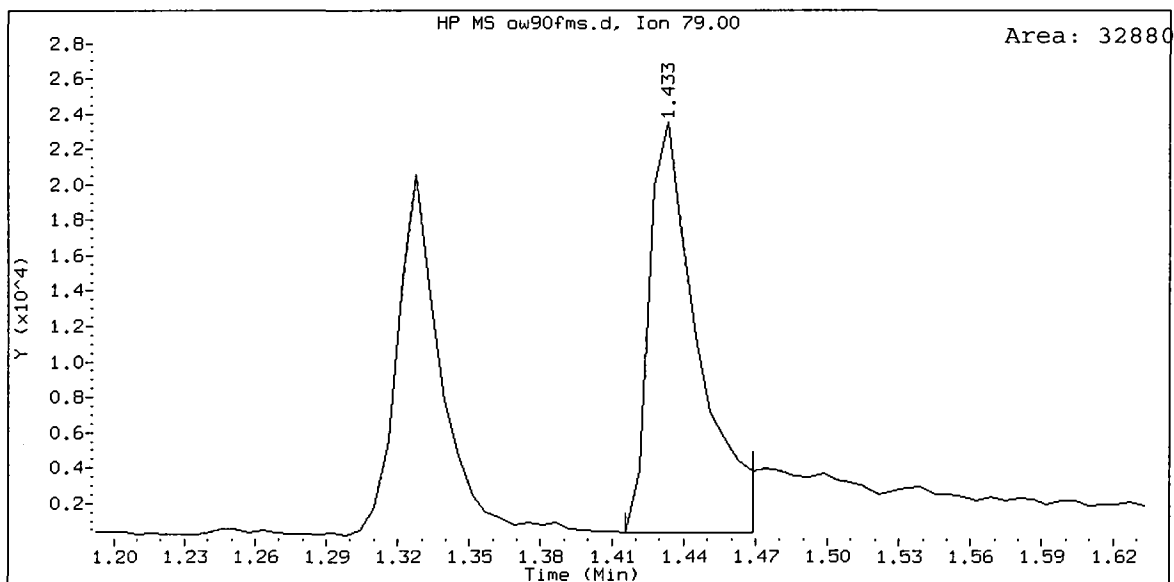
OW90FMS, /chem3/nt4.i/20090506.b/ow90fms.d
4-Nitroaniline Amount: 4.59



OW90FMS, /chem3/nt4.i/20090506.b/ow90fms.d
Benzo(k)fluoranthene Amount: 22.38



OW90FMS, /chem3/nt4.i/20090506.b/ow90fms.d
Pyridine Amount: 1.97



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
 Page 1 of 1

Sample ID: 10654028
MATRIX SPIKE DUPLICATE

Lab Sample ID: OW90F
 LIMS ID: 09-10073
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/07/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/05/08
 Date Received: 09/12/08

Date Extracted: 05/01/09
 Date Analyzed: 05/06/09 22:06
 Instrument/Analyst: NT4/LJR
 GPC Cleanup: Yes

Sample Amount: 25.6 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 35.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	---
106-46-7	1,4-Dichlorobenzene	20	---
100-51-6	Benzyl Alcohol	20	---
95-50-1	1,2-Dichlorobenzene	20	---
95-48-7	2-Methylphenol	20	---
106-44-5	4-Methylphenol	20	---
105-67-9	2,4-Dimethylphenol	20	---
65-85-0	Benzoic Acid	200	---
120-82-1	1,2,4-Trichlorobenzene	20	---
91-20-3	Naphthalene	20	---
87-68-3	Hexachlorobutadiene	20	---
91-57-6	2-Methylnaphthalene	20	---
131-11-3	Dimethylphthalate	20	---
208-96-8	Acenaphthylene	20	---
83-32-9	Acenaphthene	20	---
132-64-9	Dibenzofuran	20	---
84-66-2	Diethylphthalate	20	---
86-73-7	Fluorene	20	---
86-30-6	N-Nitrosodiphenylamine	20	---
118-74-1	Hexachlorobenzene	20	---
87-86-5	Pentachlorophenol	98	---
85-01-8	Phenanthrene	20	---
120-12-7	Anthracene	20	---
84-74-2	Di-n-Butylphthalate	20	---
206-44-0	Fluoranthene	20	---
129-00-0	Pyrene	20	---
85-68-7	Butylbenzylphthalate	20	---
56-55-3	Benzo(a)anthracene	20	---
117-81-7	bis(2-Ethylhexyl)phthalate	20	---
218-01-9	Chrysene	20	---
117-84-0	Di-n-Octyl phthalate	20	---
205-99-2	Benzo(b)fluoranthene	20	---
207-08-9	Benzo(k)fluoranthene	20	---
50-32-8	Benzo(a)pyrene	20	---
193-39-5	Indeno(1,2,3-cd)pyrene	20	---
53-70-3	Dibenz(a,h)anthracene	20	---
191-24-2	Benzo(g,h,i)perylene	20	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.0%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	64.0%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	65.3%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	84.0%	d4-2-Chlorophenol	66.4%

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D
 Data file : /chem3/nt4.i/20090506.b/ow90fmd.d
 Lab Smp Id: OW90FMSD Client Smp ID: 10654028 MSD
 Inj Date : 06-MAY-2009 22:06
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90FMSD
 Misc Info : 09-10073
 Comment : 1ul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:49 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 13 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 3.50

LTK
5/7/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	39.30000	Weight of sample extracted (g)
M	35.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112		3.684	3.619	(0.617)	265577	22.7643	445.6
\$ 2 Phenol-d5	99		5.752	5.734	(0.964)	382013	24.5227	480.0
3 Phenol	94		5.776	5.752	(0.968)	263654	14.3245	280.4
\$ 5 2-Chlorophenol-d4	132		5.694	5.676	(0.954)	232509	24.8665	486.7
4 Bis(2-Chloroethyl)ether	93		5.711	5.705	(0.957)	192571	14.0139	274.3
6 2-Chlorophenol	128		5.717	5.705	(0.958)	171418	15.4740	302.9
7 1,3-Dichlorobenzene	146		5.893	5.893	(0.987)	184050	15.4712	302.8
* 8 1,4-Dichlorobenzene-d4	152		5.970	5.975	(1.000)	142757	20.0000	
9 1,4-Dichlorobenzene	146		5.999	5.999	(1.005)	180858	15.4384	302.2
\$ 10 1,2-Dichlorobenzene-d4	152		6.281	6.281	(1.052)	106642	16.0938	315.0
12 1,2-Dichlorobenzene	146		6.305	6.304	(1.056)	180709	16.3820	320.6
11 Benzyl alcohol	108		6.493	6.375	(1.088)	185491	22.4656	439.7 (M)
14 2,2'-oxybis(1-Chloropropane)	45		6.645	6.645	(1.113)	229234	14.7478	288.7
13 2-Methylphenol	108		6.728	6.716	(1.127)	193679	16.9786	332.3
17 Hexachloroethane	117		6.798	6.804	(1.139)	76848	15.4607	302.6

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ug/mL)	FINAL (ug/kg)	
16 N-Nitroso-di-n-propylamine	70	6.874	6.880	(1.152)	132846	13.6503	267.2	
15 4-Methylphenol	108	6.986	6.968	(1.170)	361646	30.7296	601.5	
\$ 18 Nitrobenzene-d5	82	6.974	6.980	(0.865)	196965	15.4510	302.4	
19 Nitrobenzene	77	6.998	7.009	(0.867)	327143	24.4384	478.3(R)	
20 Isophorone	82	7.427	7.421	(0.921)	365782	15.4160	301.7	
21 2-Nitrophenol	139	7.533	7.538	(0.934)	94557	17.5605	343.7	
22 2,4-Dimethylphenol	107	7.791	7.785	(0.966)	174918	15.8338	309.9	
23 Bis(2-Chloroethoxy)methane	93	7.885	7.891	(0.977)	220873	15.7103	307.5	
24 Benzoic acid	105	8.114	8.173	(1.006)	171617	20.0408	392.3(RM)	
25 2,4-Dichlorophenol	162	7.967	7.967	(0.988)	133250	17.9681	351.7	
26 1,2,4-Trichlorobenzene	180	8.032	8.038	(0.996)	143123	18.5277	362.6	
* 27 Naphthalene-d8	136	8.067	8.073	(1.000)	465117	20.0000		
28 Naphthalene	128	8.097	8.102	(1.004)	450366	17.2486	337.6	
29 4-Chloroaniline	127	Compound Not Detected.						
30 Hexachlorobutadiene	225	8.461	8.467	(1.049)	68214	17.2820	338.3	
31 4-Chloro-3-methylphenol	107	9.236	9.230	(1.145)	148840	16.1810	316.7	
32 2-Methylnaphthalene	141	9.219	9.219	(1.143)	249613	16.9993	332.7	
33 Hexachlorocyclopentadiene	237	9.607	9.606	(0.884)	141391	40.9327	801.2	
34 2,4,6-Trichlorophenol	196	9.777	9.783	(0.900)	91051	19.9334	390.2	
35 2,4,5-Trichlorophenol	196	9.847	9.841	(0.906)	91529	19.5349	382.4	
\$ 36 2-Fluorobiphenyl	172	9.889	9.894	(0.910)	296926	17.6849	346.2	
37 2-Chloronaphthalene	162	9.965	9.971	(0.917)	269823	19.0429	372.7	
38 2-Nitroaniline	65	10.259	10.259	(0.944)	88094	14.5837	285.5	
39 Dimethylphthalate	163	10.670	10.670	(0.982)	268084	16.1406	315.9	
40 Acenaphthylene	152	10.611	10.611	(0.977)	435434	17.7899	348.2	
41 2,6-Dinitrotoluene	165	10.735	10.740	(0.988)	65170	17.4296	341.2	
* 42 Acenaphthene-d10	164	10.864	10.864	(1.000)	227089	20.0000		
43 3-Nitroaniline	138	10.940	10.923	(1.007)	27122	6.00101	117.5(R)	
44 Acenaphthene	153	10.911	10.911	(1.004)	260810	17.5631	343.8	
45 2,4-Dinitrophenol	184	11.087	11.093	(1.021)	137208	76.2437	1492	
46 Dibenzofuran	168	11.169	11.175	(1.028)	367051	18.0449	353.2	
47 4-Nitrophenol	109	11.387	11.369	(1.048)	52208	21.6343	423.5	
48 2,4-Dinitrotoluene	165	11.328	11.334	(1.043)	89017	18.0996	354.3	
50 Diethylphthalate	149	11.804	11.810	(1.087)	296547	17.7303	347.0	
49 Fluorene	166	11.704	11.704	(1.077)	298911	18.4080	360.3	
51 4-Chlorophenyl-phenylether	204	11.786	11.792	(1.085)	133929	19.5828	383.3	
52 4-Nitroaniline	138	11.892	11.892	(1.095)	31164	7.11486	139.3	
53 4,6-Dinitro-2-methylphenol	198	11.957	11.962	(0.910)	175667	72.3783	1417	
54 N-Nitrosodiphenylamine	169	12.010	12.009	(0.914)	190279	16.3914	320.8	
\$ 55 2,4,6-Tribromophenol	330	12.127	12.133	(1.116)	61589	31.5380	617.3	
56 4-Bromophenyl-phenylether	248	12.533	12.532	(0.954)	68707	16.9506	331.8	
57 Hexachlorobenzene	284	12.691	12.697	(0.966)	76979	18.8127	368.2	
58 Pentachlorophenol	266	13.026	13.026	(0.991)	50364	20.8138	407.4	
* 59 Phenanthrene-d10	188	13.144	13.143	(1.000)	328508	20.0000		
60 Phenanthrene	178	13.173	13.179	(1.002)	440996	20.5679	402.6	
61 Anthracene	178	13.243	13.243	(1.008)	382135	17.3032	338.7	
62 Carbazole	167	13.578	13.578	(1.033)	376343	18.6108	364.3	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)	
63 Di-n-butylphthalate	149	14.407	14.395	(1.096)	451007	17.0727	334.2	
64 Fluoranthene	202	15.047	15.041	(1.145)	474068	22.3830	438.1	
65 Pyrene	202	15.365	15.364	(0.888)	489330	18.8198	368.4	
* 66 Terphenyl-d14	244	15.776	15.776	(0.911)	252001	15.9577	312.3	
67 Butylbenzylphthalate	149	16.716	16.716	(0.966)	246040	17.6370	345.2	
68 Benzo(a)anthracene	228	17.292	17.286	(0.999)	466249	20.2393	396.1	
* 69 Chrysene-d12	240	17.309	17.309	(1.000)	324037	20.0000		
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
71 Chrysene	228	17.345	17.344	(1.002)	469781	20.7036	405.2	
72 bis(2-Ethylhexyl)phthalate	149	17.756	17.750	(0.951)	353186	19.7017	385.6	
* 134 Di-n-octylphthalate-d4	153	18.667	18.672	(1.000)	565483	20.0000		
73 Di-n-octylphthalate	149	18.678	18.678	(1.001)	627020	19.7676	386.9	
74 Benzo(b)fluoranthene	252	18.890	18.884	(0.975)	536722	22.1242	433.0	
75 Benzo(k)fluoranthene	252	18.919	18.919	(0.976)	531397	22.7944	446.2 (M)	
76 Benzo(a)pyrene	252	19.301	19.301	(0.996)	427501	19.4202	380.1	
* 77 Perylene-d12	264	19.383	19.383	(1.000)	338353	20.0000		
78 Indeno(1,2,3-cd)pyrene	276	20.699	20.699	(1.068)	444011	16.2186	317.5	
79 Dibenzo(a,h)anthracene	278	20.746	20.746	(1.070)	451513	19.9955	391.4	
80 Benzo(g,h,i)perylene	276	20.976	20.981	(1.082)	438154	18.0783	353.9	
90 N-Nitrosodimethylamine	74	1.322	1.293	(0.221)	121523	13.1319	257.0	
91 Aniline	93	5.711	5.523	(0.957)	192571	9.37286	183.5	
93 Benzidine	184	Compound Not Detected.						
103 Pyridine	79	1.422	1.281	(0.238)	29993	1.89855	37.16 (H)	
105 1-methylnaphthalene	141	9.377	9.377	(1.162)	241873	17.2172	337.0	
111 Azobenzene (1,2-DP-Hydrazine)	77	12.021	12.027	(1.107)	347126	15.5506	304.4	

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90fmd.d
 Lab Smp Id: OW90FMSD
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: 10654028 MSD
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	142757	-17.22
27 Naphthalene-d8	608124	304062	1216248	465117	-23.52
42 Acenaphthene-d10	305977	152988	611954	227089	-25.78
59 Phenanthrene-d10	428646	214323	857292	328508	-23.36
69 Chrysene-d12	348476	174238	696952	324037	-7.01
134 Di-n-octylphthala	674761	337380	1349522	565483	-16.20
77 Perylene-d12	426588	213294	853176	338353	-20.68

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.10
27 Naphthalene-d8	8.07	7.57	8.57	8.07	-0.07
42 Acenaphthene-d10	10.86	10.36	11.36	10.86	0.00
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	0.00
69 Chrysene-d12	17.31	16.81	17.81	17.31	0.00
134 Di-n-octylphthala	18.67	18.17	19.17	18.67	-0.03
77 Perylene-d12	19.38	18.88	19.88	19.38	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix Client SDG: OW90
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: OW90FMSD Client Smp ID: 10654028 MSD
 Level: LOW Operator: LJR/VTS
 Data Type: MS DATA SampleType: MSD
 SpikeList File: PSDDALCS.spk Quant Type: ISTD
 Sublist File: PSDDA.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	489.3	280.4	57.30	37-92
4 Bis(2-Chloroethyl)	489.3	274.3	56.06	40-83
6 2-Chlorophenol	489.3	302.9	61.90	42-80
7 1,3-Dichlorobenzen	489.3	302.8	61.88	39-75
9 1,4-Dichlorobenzen	489.3	302.2	61.75	40-75
11 Benzyl alcohol	978.7	439.7	44.93	25-90
12 1,2-Dichlorobenzen	489.3	320.6	65.53	40-76
13 2-Methylphenol	489.3	332.3	67.91	40-86
14 2,2'-oxybis(1-Chlo	489.3	288.7	58.99	26-100
15 4-Methylphenol	978.7	601.5	61.46	40-92
16 N-Nitroso-di-n-pro	489.3	267.2	54.60	29-95
17 Hexachloroethane	489.3	302.6	61.84	37-73
19 Nitrobenzene	489.3	478.3	97.75*	37-85
20 Isophorone	489.3	301.7	61.66	42-91
21 2-Nitrophenol	489.3	343.7	OK 70.24	40-86
22 2,4-Dimethylphenol	489.3	309.9	63.34	23-85
23 Bis(2-Chloroethoxy	489.3	307.5	62.84	40-87
24 Benzoic acid	1468	392.3	26.72*	29-104
25 2,4-Dichlorophenol	489.3	351.7	71.87	42-88
26 1,2,4-Trichloroben	489.3	362.6	74.11	40-81
28 Naphthalene	489.3	337.6	68.99	41-80
29 4-Chloroaniline	1174	0.000	*	14-80
30 Hexachlorobutadien	489.3	338.3	69.13	37-85
31 4-Chloro-3-methylp	489.3	316.7	64.72	40-94
32 2-Methylnaphthalen	489.3	332.7	68.00	44-82
33 Hexachlorocyclopen	1468	801.2	54.58	10-98
34 2,4,6-Trichlorophe	489.3	390.2	79.73	42-88
35 2,4,5-Trichlorophe	489.3	382.4	78.14	41-89
37 2-Chloronaphthalen	489.3	372.7	76.17	42-82
38 2-Nitroaniline	489.3	285.5	58.33	35-101
39 Dimethylphthalate	489.3	315.9	64.56	44-91
40 Acenaphthylene	489.3	348.2	71.16	44-84
41 2,6-Dinitrotoluene	489.3	341.2	69.72	42-97

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	1253	117.5	9.38*	25-93
44 Acenaphthene	489.3	343.8	70.25	42-85
45 2,4-Dinitrophenol	1468	1492	101.66	10-179
46 Dibenzofuran	489.3	353.2	72.18	46-84
47 4-Nitrophenol	489.3	423.5	86.54	26-97
48 2,4-Dinitrotoluene	489.3	354.3	72.40	41-101
49 Fluorene	489.3	360.3	73.63	44-88
50 Diethylphthalate	489.3	347.0	70.92	46-94
51 4-Chlorophenyl-phe	489.3	383.3	78.33	44-87
52 4-Nitroaniline	489.3	139.3	28.46	24-89
53 4,6-Dinitro-2-meth	1468	1417	96.50	22-128
54 N-Nitrosodiphenyla	489.3	320.8	65.57	40-111
56 4-Bromophenyl-phen	489.3	331.8	67.80	43-91
57 Hexachlorobenzene	489.3	368.2	75.25	42-90
58 Pentachlorophenol	489.3	407.4	83.26	34-94
60 Phenanthrene	489.3	402.6	82.27	45-90
61 Anthracene	489.3	338.7	69.21	42-87
62 Carbazole	489.3	364.3	74.44	43-93
63 Di-n-butylphthalat	489.3	334.2	68.29	48-99
64 Fluoranthene	489.3	438.1	89.53	43-98
65 Pyrene	489.3	368.4	75.28	39-99
67 Butylbenzylphthala	489.3	345.2	70.55	41-105
68 Benzo(a)anthracene	489.3	396.1	80.96	42-94
70 3,3'-Dichlorobenz	1253	0.000	*	14-84
71 Chrysene	489.3	405.2	82.81	45-92
72 bis(2-Ethylhexyl)p	489.3	385.6	78.81	34-111
73 Di-n-octylphthalat	489.3	386.9	79.07	32-107
74 Benzo(b)fluoranth	489.3	433.0	88.50	43-105
75 Benzo(k)fluoranth	489.3	446.2	91.18	40-108
76 Benzo(a)pyrene	489.3	380.1	77.68	41-95
78 Indeno(1,2,3-cd)py	489.3	317.5	64.87	28-101
79 Dibenzo(a,h) anthra	489.3	391.4	79.98	32-104
80 Benzo(g,h,i)peryle	489.3	353.9	72.31	18-106
91 Aniline	489.3	183.5	37.49	10-71
111 Azobenzene (1,2-DP	489.3	304.4	62.20	40-94
90 N-Nitrosodimethyla	489.3	257.0	52.53	31-75
105 1-methylnaphthalen	489.3	337.0	68.87	43-87

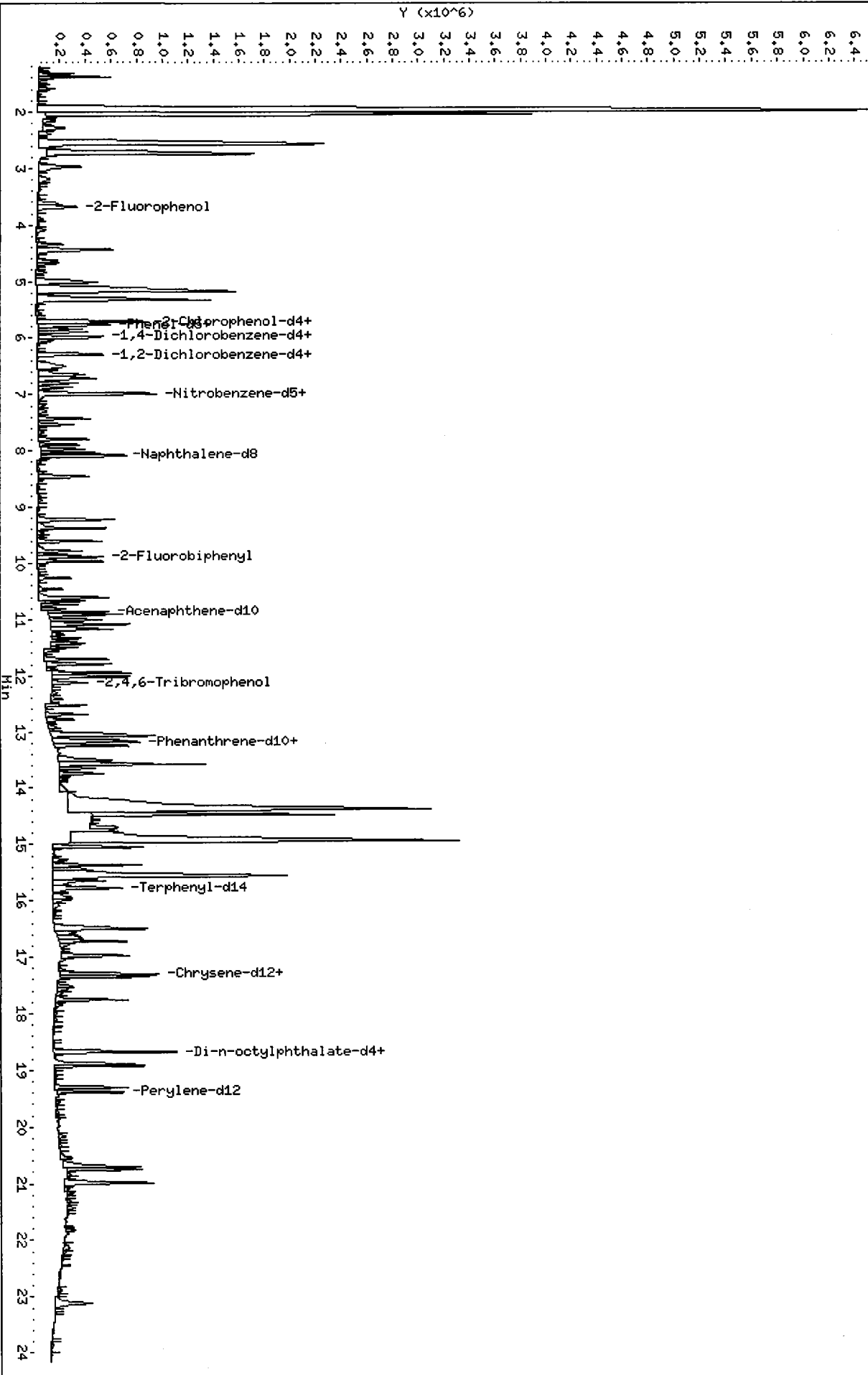
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	734.0	445.6	60.70	10-114
\$ 2 Phenol-d5	734.0	480.0	65.39	29-85
\$ 5 2-Chlorophenol-d4	734.0	486.7	66.31	30-84

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 10 1,2-Dichlorobenzen	489.3	315.0	64.38	25-82
\$ 18 Nitrobenzene-d5	489.3	302.4	61.80	29-87
\$ 36 2-Fluorobiphenyl	489.3	346.2	70.74	32-88
\$ 55 2,4,6-Tribromophen	734.0	617.3	84.10	25-103
\$ 66 Terphenyl-d14	489.3	312.3	63.83	21-97

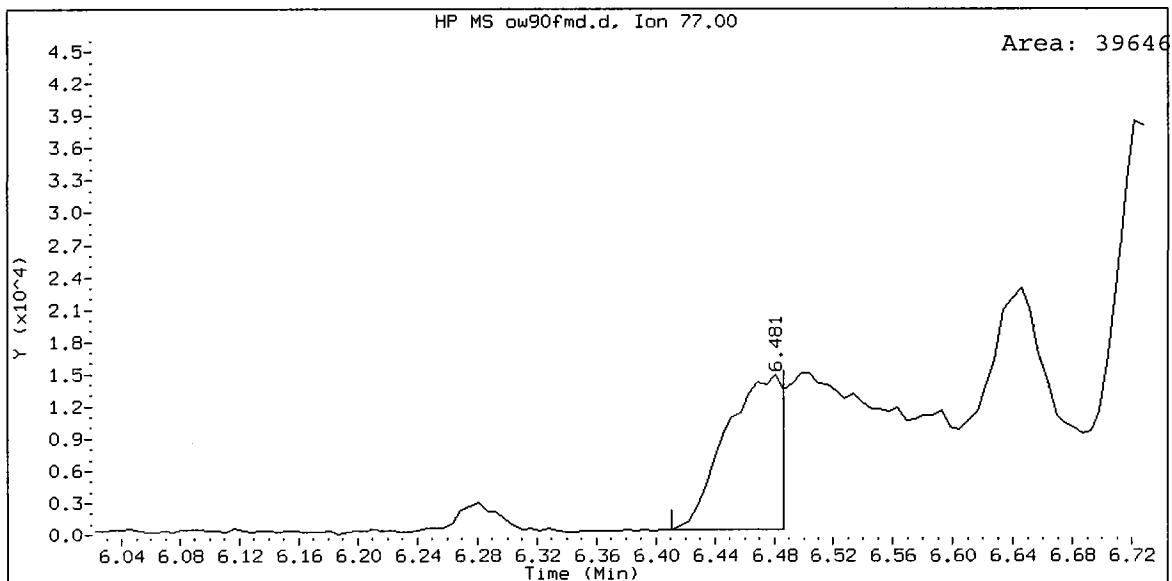
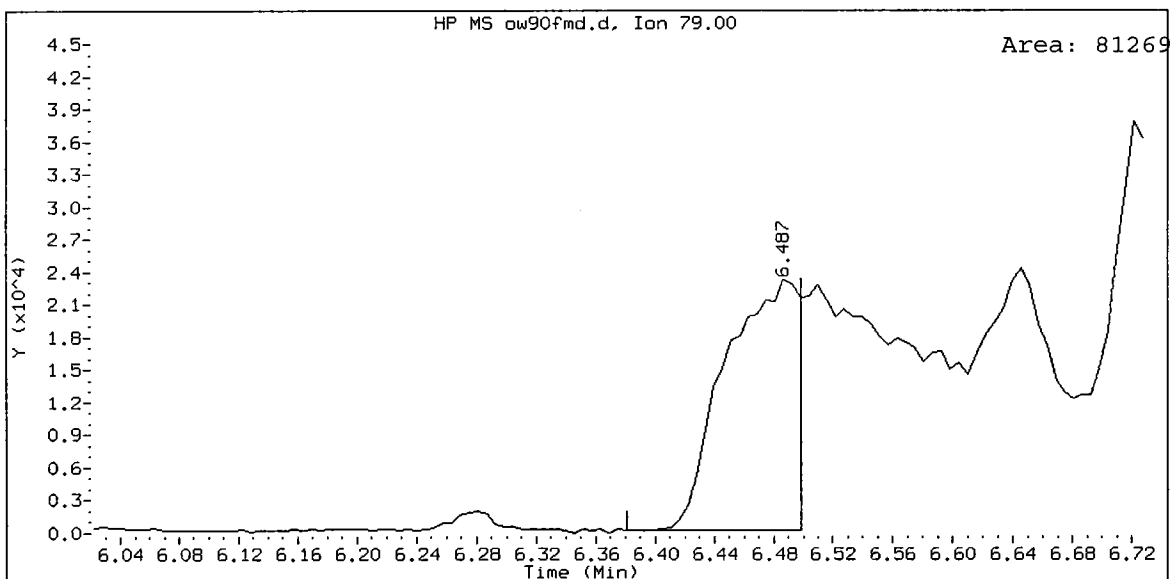
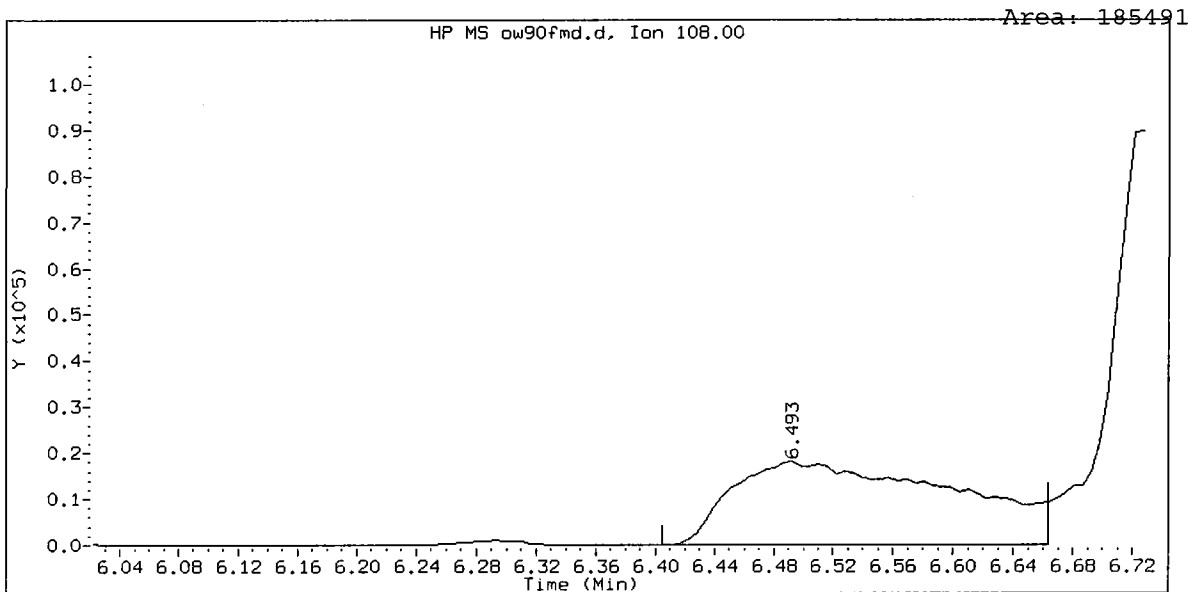
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Date : 06-MAY-2009 22:06
Client ID: 10654028 HSD
Sample Info: 0M90FHSD
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.1
Operator: LJR/VTS
Column diameter: 0.32

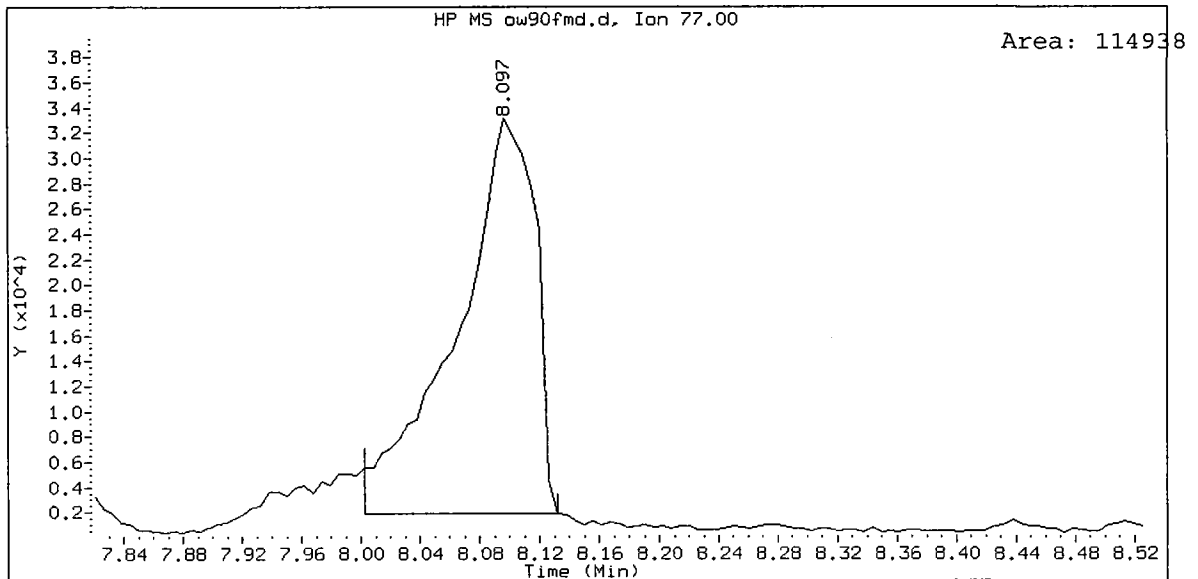
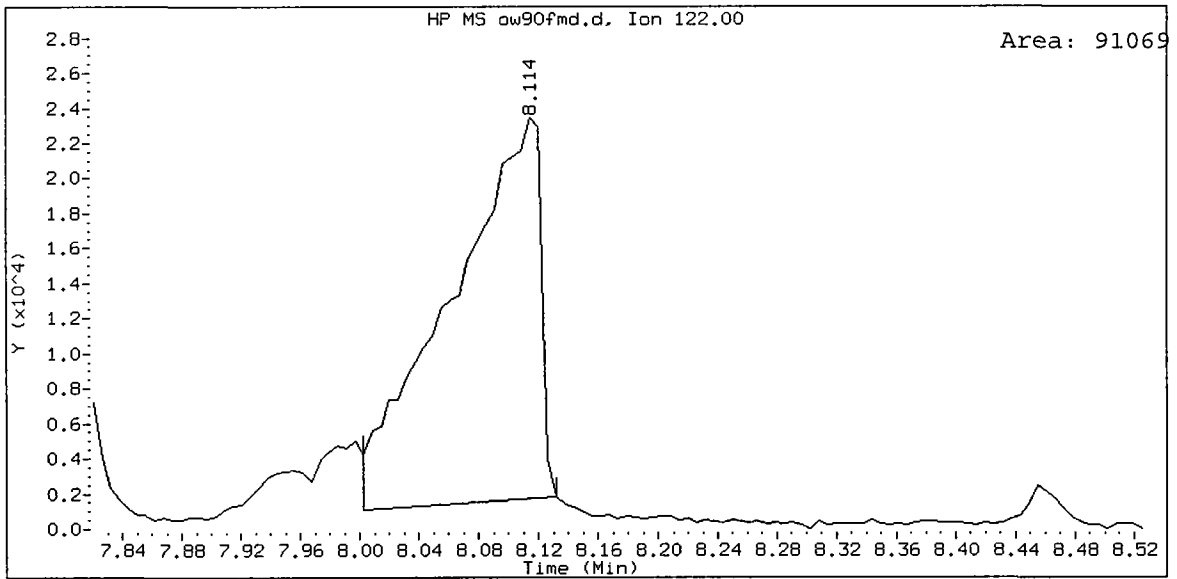
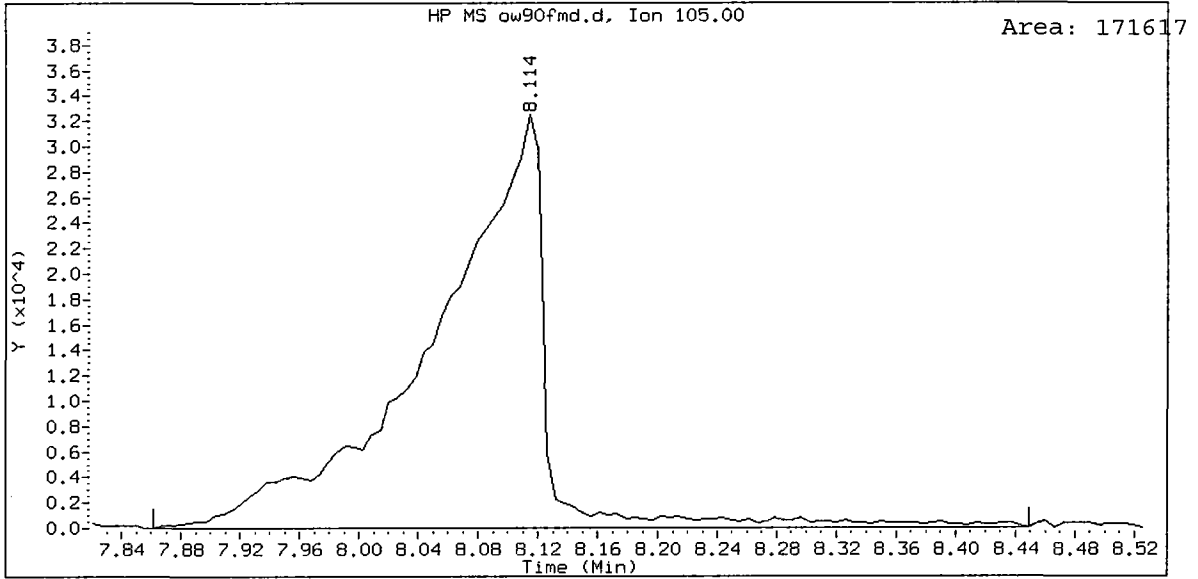
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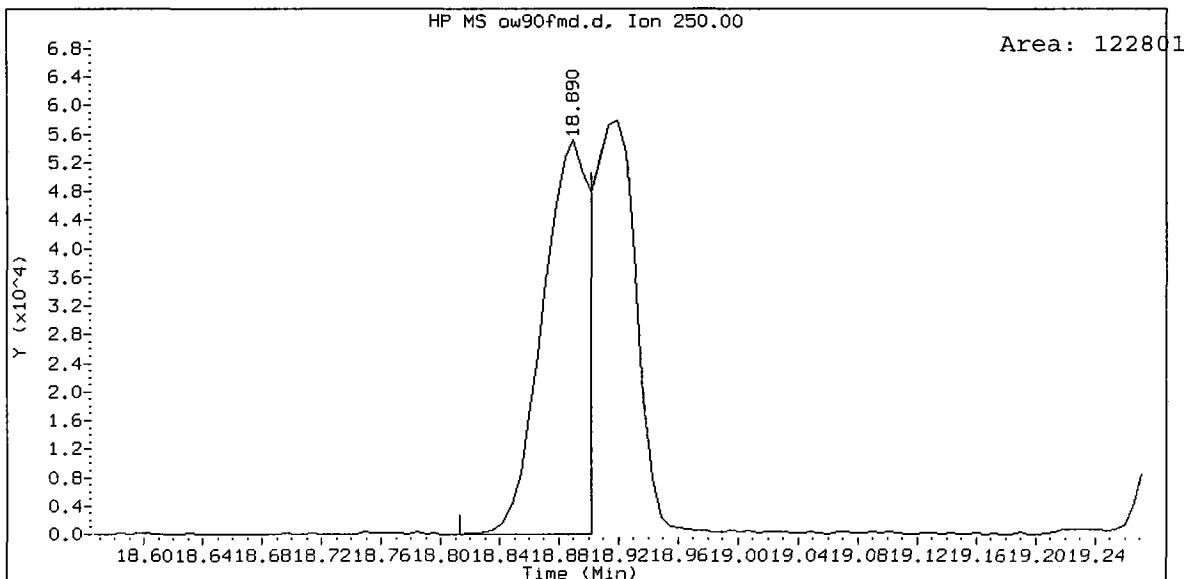
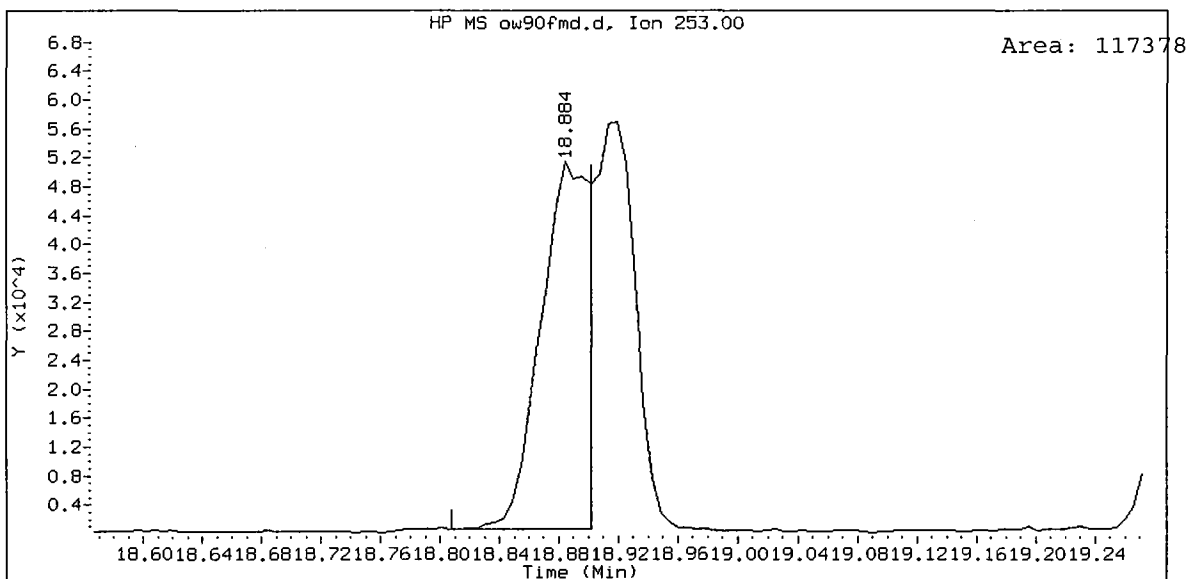
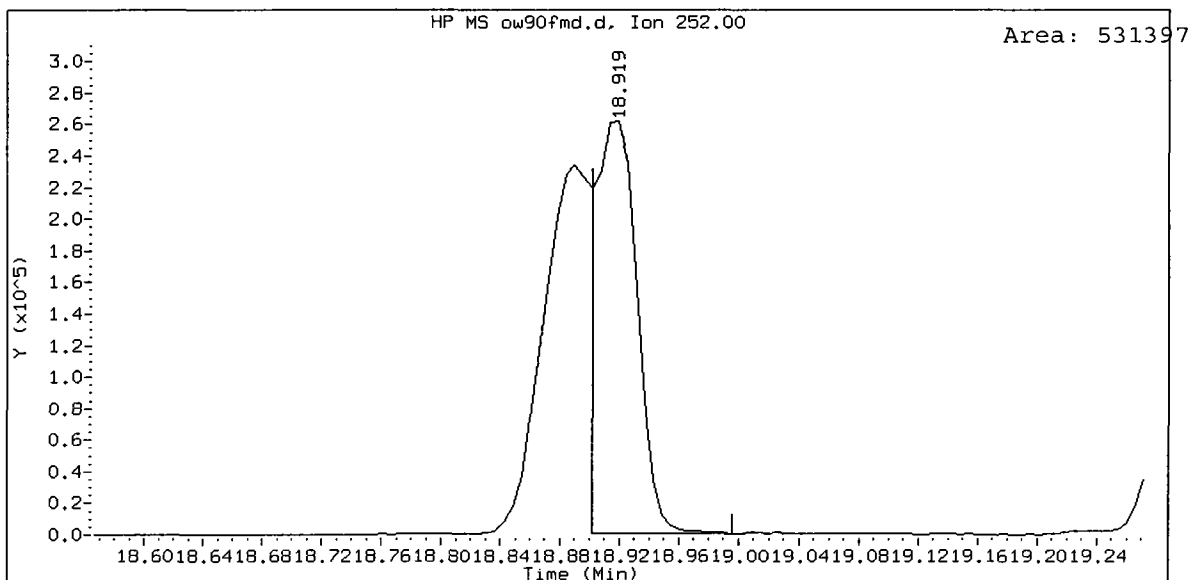
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Benzyl alcohol Amount: 22.47



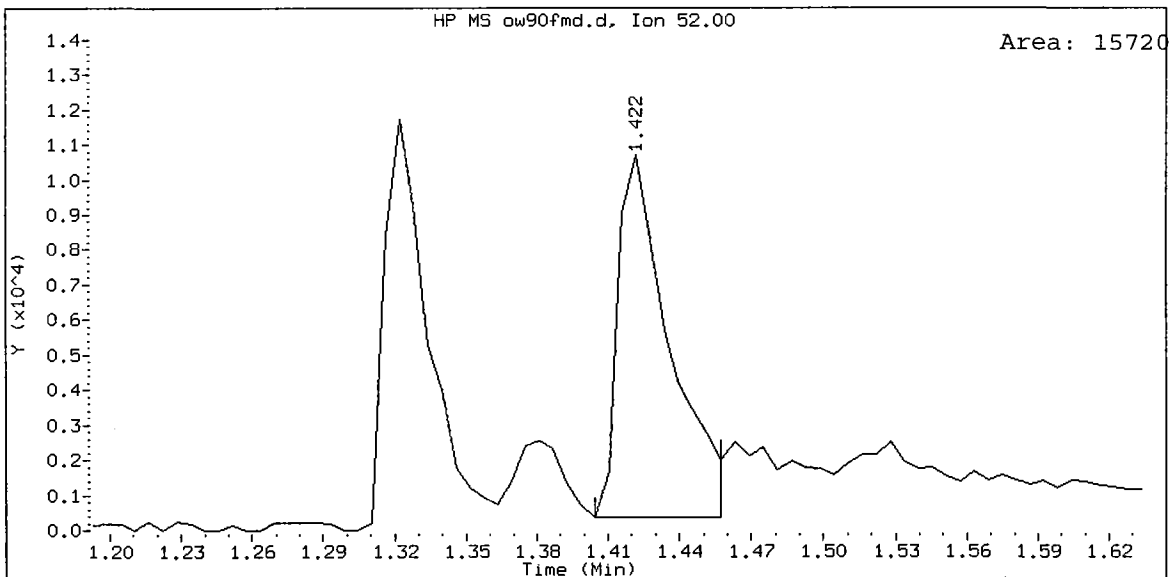
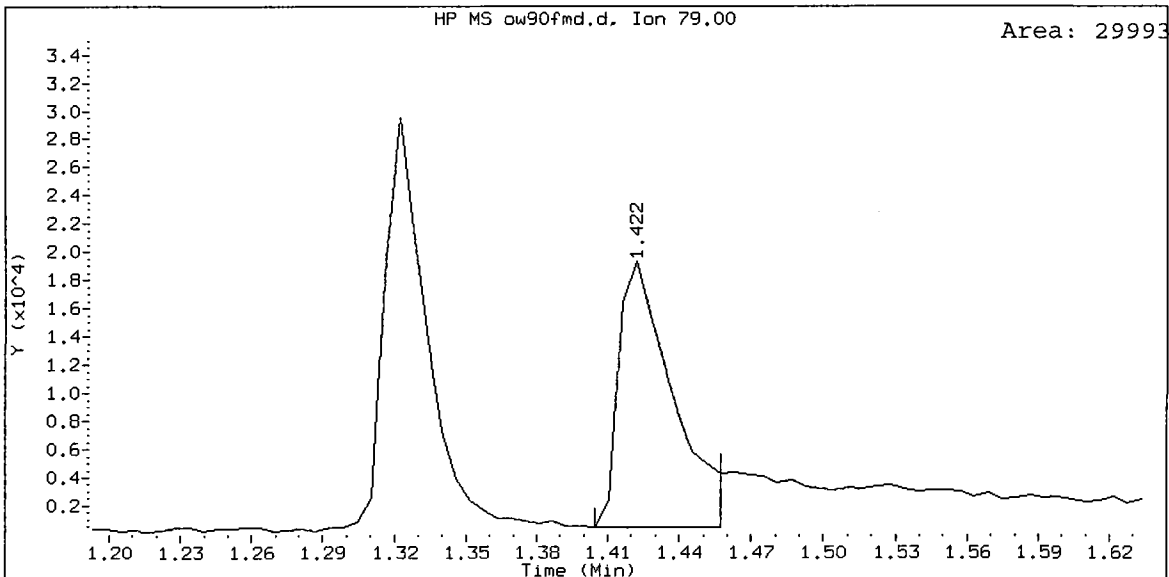
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Benzoic acid Amount: 20.04



OW90FMSD, /chem3/nt4.i/20090506.b/ow90fmd.d
Benzo(k)fluoranthene Amount: 22.79



OW90FMSD, /chem3/nt4.i/20090506.b/ow90fmd.d
Pyridine Amount: 1.90



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 1

Sample ID: SQ-1 050109
STANDARD REFERENCE

Lab Sample ID: SRM-050109
LIMS ID: 09-10073
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 05/07/09

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001
Date Sampled: NA
Date Received: NA

Date Extracted: 05/01/09
Date Analyzed: 05/06/09 17:40
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 18.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 40.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	28	33
106-46-7	1,4-Dichlorobenzene	28	< 28 U
100-51-6	Benzyl Alcohol	28	< 28 U
95-50-1	1,2-Dichlorobenzene	28	< 28 U
95-48-7	2-Methylphenol	28	< 28 U
106-44-5	4-Methylphenol	28	25 J
105-67-9	2,4-Dimethylphenol	28	< 28 U
65-85-0	Benzoic Acid	280	220 J
120-82-1	1,2,4-Trichlorobenzene	28	< 28 U
91-20-3	Naphthalene	28	27 J
87-68-3	Hexachlorobutadiene	28	< 28 U
91-57-6	2-Methylnaphthalene	28	27 J
131-11-3	Dimethylphthalate	28	< 28 U
208-96-8	Acenaphthylene	28	< 28 U
83-32-9	Acenaphthene	28	26 J
132-64-9	Dibenzofuran	28	< 28 U
84-66-2	Diethylphthalate	28	< 28 U
86-73-7	Fluorene	28	24 J
86-30-6	N-Nitrosodiphenylamine	28	< 28 U
118-74-1	Hexachlorobenzene	28	< 28 U
87-86-5	Pentachlorophenol	140	160
85-01-8	Phenanthrene	28	41
120-12-7	Anthracene	28	24 J
84-74-2	Di-n-Butylphthalate	28	< 28 U
206-44-0	Fluoranthene	28	30
129-00-0	Pyrene	28	29
85-68-7	Butylbenzylphthalate	28	< 28 U
56-55-3	Benzo (a) anthracene	28	24 J
117-81-7	bis (2-Ethylhexyl) phthalate	28	27 J
218-01-9	Chrysene	28	36
117-84-0	Di-n-Octyl phthalate	28	< 28 U
205-99-2	Benzo (b) fluoranthene	28	22 J
207-08-9	Benzo (k) fluoranthene	28	< 28 U
50-32-8	Benzo (a) pyrene	28	28
193-39-5	Indeno (1,2,3-cd) pyrene	28	< 28 U
53-70-3	Dibenz (a,h) anthracene	28	43
191-24-2	Benzo (g,h,i) perylene	28	44

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	55.2%	2-Fluorobiphenyl	62.4%
d14-p-Terphenyl	67.6%	d4-1,2-Dichlorobenzene	56.8%
d5-Phenol	56.0%	2-Fluorophenol	57.6%
2,4,6-Tribromophenol	65.9%	d4-2-Chlorophenol	57.3%

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem3/nt4.i/20090506.b/ow90srm.d
 Lab Smp Id: OW90SRM1 Client Smp ID: SQ-1
 Inj Date : 06-MAY-2009 17:40
 Operator : LJR/VTS Inst ID: nt4.i
 Smp Info : OW90SRM1
 Misc Info : 09-10073
 Comment : lul Injection
 Method : /chem3/nt4.i/20090506.b/SW846.m
 Meth Date : 07-May-2009 10:50 jeff Quant Type: ISTD
 Cal Date : 13-APR-2009 13:04 Cal File: 0800413.d
 Als bottle: 5 QC Sample: SRM
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSSDA.sub
 Target Version: 3.50

LJR
5/7/09

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	30.20000	Weight of sample extracted (g)
M	40.20000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112			3.668	3.619	(0.614)	281890	21.5896	597.7
\$ 2 Phenol-d5	99			5.742	5.734	(0.962)	366848	21.0446	582.6
3 Phenol	94			5.765	5.752	(0.966)	24464	1.18761	32.88
\$ 5 2-Chlorophenol-d4	132			5.689	5.676	(0.953)	224814	21.4832	594.8
4 Bis(2-Chloroethyl)ether	93						Compound Not Detected.		
6 2-Chlorophenol	128						Compound Not Detected.		
7 1,3-Dichlorobenzene	146						Compound Not Detected.		
* 8 1,4-Dichlorobenzene-d4	152			5.971	5.975	(1.000)	159770	20.0000	
9 1,4-Dichlorobenzene	146						Compound Not Detected.		
\$ 10 1,2-Dichlorobenzene-d4	152			6.282	6.281	(1.052)	105462	14.2209	393.7
12 1,2-Dichlorobenzene	146						Compound Not Detected.		
11 Benzyl alcohol	108						Compound Not Detected.		
14 2,2'-oxybis(1-Chloropropane)	45						Compound Not Detected.		
13 2-Methylphenol	108						Compound Not Detected.		
17 Hexachloroethane	117						Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
15 4-Methylphenol	108	6.970	6.968	(1.167)	11721	0.88990 (J)	24.64
\$ 18 Nitrobenzene-d5	82	6.970	6.980	(0.864)	201695	13.7567	380.9
19 Nitrobenzene	77				Compound Not Detected.		
20 Isophorone	82	7.410	7.421	(0.918)	37346	1.36850	37.89
21 2-Nitrophenol	139				Compound Not Detected.		
22 2,4-Dimethylphenol	107				Compound Not Detected.		
23 Bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
24 Benzoic acid	105	8.051	8.173	(0.998)	79446	8.06627 (J)	223.3 (M)
25 2,4-Dichlorophenol	162				Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
* 27 Naphthalene-d8	136	8.068	8.073	(1.000)	534947	20.0000	
28 Naphthalene	128	8.092	8.102	(1.003)	29583	0.98510 (J)	27.27
29 4-Chloroaniline	127				Compound Not Detected.		
30 Hexachlorobutadiene	225				Compound Not Detected.		
31 4-Chloro-3-methylphenol	107				Compound Not Detected.		
32 2-Methylnaphthalene	141	9.214	9.219	(1.142)	16307	0.96558 (J)	26.73
33 Hexachlorocyclopentadiene	237				Compound Not Detected.		
34 2,4,6-Trichlorophenol	196				Compound Not Detected.		
35 2,4,5-Trichlorophenol	196				Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172	9.890	9.894	(0.910)	298050	15.5515	430.6
37 2-Chloronaphthalene	162				Compound Not Detected.		
38 2-Nitroaniline	65				Compound Not Detected.		
39 Dimethylphthalate	163				Compound Not Detected.		
40 Acenaphthylene	152				Compound Not Detected.		
41 2,6-Dinitrotoluene	165				Compound Not Detected.		
* 42 Acenaphthene-d10	164	10.865	10.864	(1.000)	259219	20.0000	
43 3-Nitroaniline	138				Compound Not Detected.		
44 Acenaphthene	153	10.906	10.911	(1.004)	15789	0.93145 (J)	25.79
45 2,4-Dinitrophenol	184				Compound Not Detected.		
46 Dibenzofuran	168				Compound Not Detected.		
47 4-Nitrophenol	109				Compound Not Detected.		
48 2,4-Dinitrotoluene	165				Compound Not Detected.		
50 Diethylphthalate	149				Compound Not Detected.		
49 Fluorene	166	11.699	11.704	(1.077)	16246	0.87648 (J)	24.27
51 4-Chlorophenyl-phenylether	204	11.787	11.792	(1.085)	7021	0.89935 (J)	24.90
52 4-Nitroaniline	138				Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
54 N-Nitrosodiphenylamine	169				Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330	12.122	12.133	(1.116)	54959	24.6547	682.6
56 4-Bromophenyl-phenylether	248	12.528	12.532	(0.953)	8049	1.89568	52.48
57 Hexachlorobenzene	284				Compound Not Detected.		
58 Pentachlorophenol	266	13.021	13.026	(0.991)	14270	5.62982	155.9
* 59 Phenanthrene-d10	188	13.139	13.143	(1.000)	344118	20.0000	
60 Phenanthrene	178	13.174	13.179	(1.003)	33497	1.49142	41.29
61 Anthracene	178	13.239	13.243	(1.008)	20256	0.87559 (J)	24.24
62 Carbazole	167				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149				Compound Not Detected.		
64 Fluoranthene	202	15.048	15.041	(1.145)	24019	1.08261	29.97
65 Pyrene	202	15.366	15.364	(0.888)	22831	1.05793	29.29
\$ 66 Terphenyl-d14	244	15.777	15.776	(0.912)	221036	16.8636	466.9
67 Butylbenzylphthalate	149				Compound Not Detected.		
68 Benzo(a)anthracene	228	17.275	17.286	(0.999)	16870	0.88229	24.43
* 69 Chrysene-d12	240	17.299	17.309	(1.000)	268952	20.0000	
70 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
71 Chrysene	228	17.334	17.344	(1.002)	24612	1.30683	36.18
72 bis(2-Ethylhexyl)phthalate	149	17.745	17.750	(0.951)	13903	0.96353	26.68
* 134 Di-n-octylphthalate-d4	153	18.668	18.672	(1.000)	455160	20.0000	
73 Di-n-octylphthalate	149				Compound Not Detected.		
74 Benzo(b)fluoranthene	252	18.873	18.884	(0.974)	16990	0.79310	21.96
75 Benzo(k)fluoranthene	252				Compound Not Detected.		
76 Benzo(a)pyrene	252	19.290	19.301	(0.995)	19560	1.00624	27.86
* 77 Perylene-d12	264	19.379	19.383	(1.000)	298781	20.0000	
78 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278	20.736	20.746	(1.070)	30628	1.53602	42.53
80 Benzo(g,h,i)perylene	276	20.953	20.981	(1.081)	34471	1.61065	44.59
90 N-Nitrosodimethylamine	74				Compound Not Detected.		
91 Aniline	93				Compound Not Detected.		
93 Benzidine	184				Compound Not Detected.		
103 Pyridine	79				Compound Not Detected.		
105 1-methylnaphthalene	141	9.373	9.377	(1.162)	17019	1.05332	29.16
111 Azobenzene (1,2-DP-Hydrazine)	77				Compound Not Detected.		

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt4.i
 Lab File ID: ow90srm.d
 Lab Smp Id: OW90SRM1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: LJR/VTS
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

Calibration Date: 06-MAY-2009
 Calibration Time: 14:54
 Client Smp ID: SQ-1
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	172459	86230	344918	159770	-7.36
27 Naphthalene-d8	608124	304062	1216248	534947	-12.03
42 Acenaphthene-d10	305977	152988	611954	259219	-15.28
59 Phenanthrene-d10	428646	214323	857292	344118	-19.72
69 Chrysene-d12	348476	174238	696952	268952	-22.82
134 Di-n-octylphthala	674761	337380	1349522	455160	-32.55
77 Perylene-d12	426588	213294	853176	298781	-29.96

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	5.98	5.48	6.48	5.97	-0.08
27 Naphthalene-d8	8.07	7.57	8.57	8.07	-0.06
42 Acenaphthene-d10	10.86	10.36	11.36	10.87	0.01
59 Phenanthrene-d10	13.14	12.64	13.64	13.14	-0.03
69 Chrysene-d12	17.31	16.81	17.81	17.30	-0.06
134 Di-n-octylphthala	18.67	18.17	19.17	18.67	-0.02
77 Perylene-d12	19.38	18.88	19.88	19.38	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Geomatrix
 Sample Matrix: SOLID
 Lab Smp Id: OW90SRM1
 Level: LOW
 Data Type: MS DATA
 SpikeList File: PSDDALCS.spk
 Sublist File: PSDDA.sub
 Method File: /chem3/nt4.i/20090506.b/SW846.m
 Misc Info: 09-10073

Client SDG: OW90
 Fraction: SV
 Client Smp ID: SQ-1
 Operator: LJR/VTS
 SampleType: SRM
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	1038	597.7	57.57	10-114
\$ 2 Phenol-d5	1038	582.6	56.11	29-85
\$ 5 2-Chlorophenol-d4	1038	594.8	57.29	30-84
\$ 10 1,2-Dichlorobenzen	692.2	393.7	56.88	25-82
\$ 18 Nitrobenzene-d5	692.2	380.9	55.03	29-87
\$ 36 2-Fluorobiphenyl	692.2	430.6	62.21	32-88
\$ 55 2,4,6-Tribromophen	1038	682.6	65.75	25-103
\$ 66 Terphenyl-d14	692.2	466.9	67.45	21-97

Date: 06-MAY-2009 17:40

Client ID: SQ-1

Sample Info: OW90SRM1

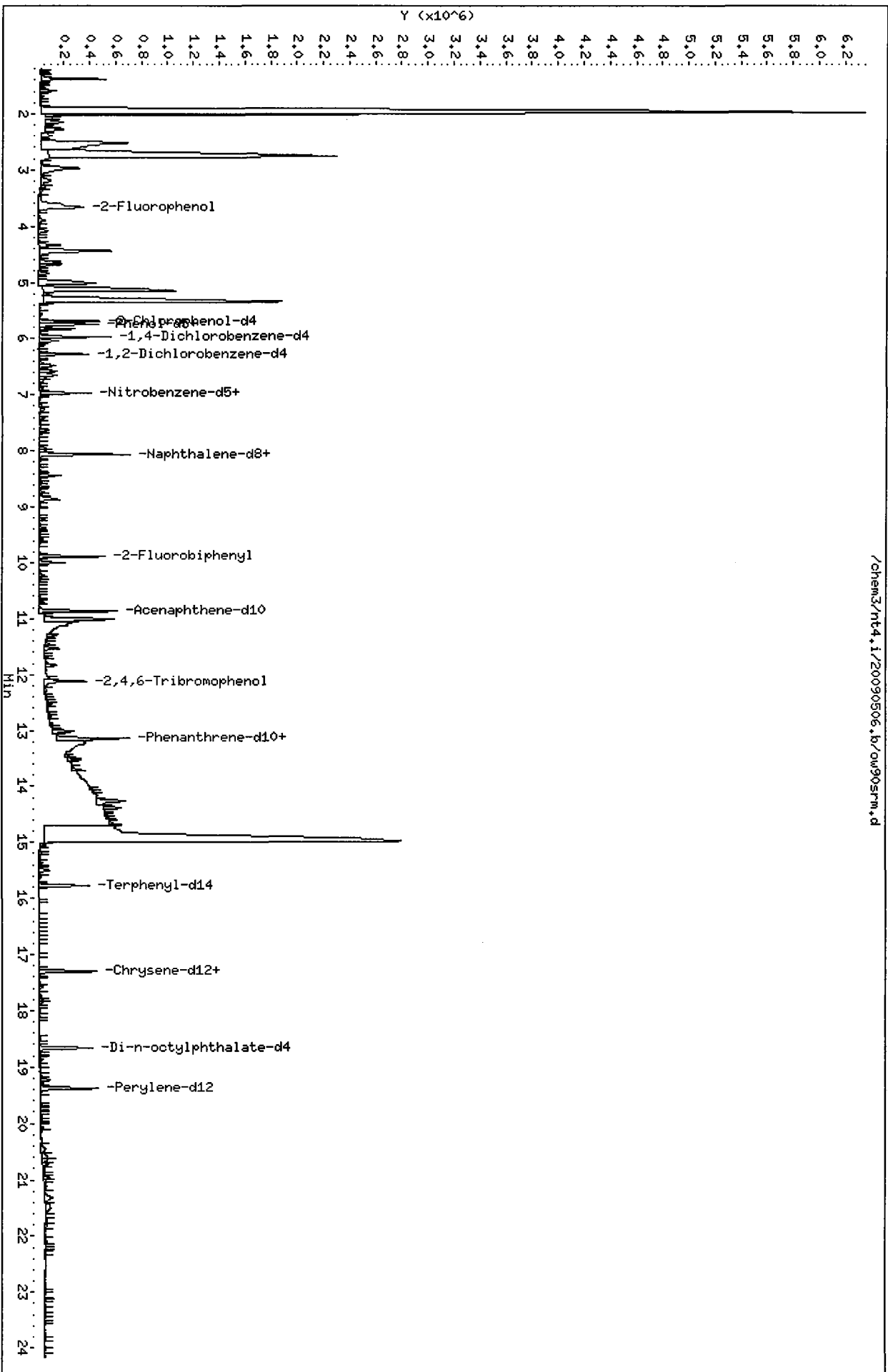
Volume Injected (uL): 1.0

Column phase: ZB-5

Instrument: nt4.i

Operator: LJR/VTS

Column diameter: 0.32



01000 : 00010

Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

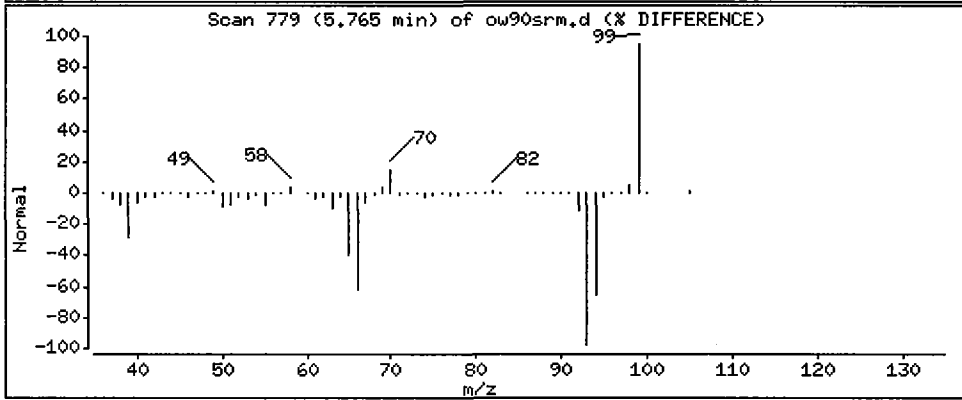
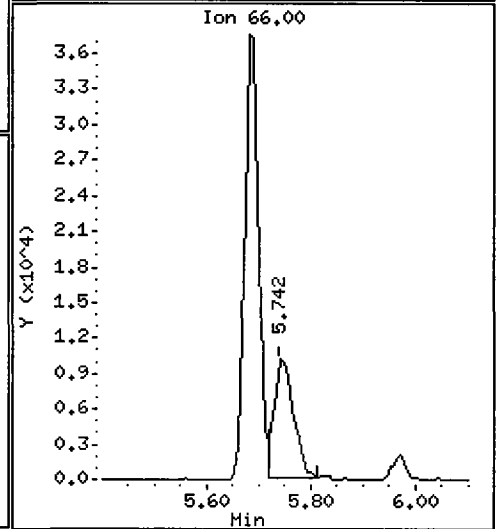
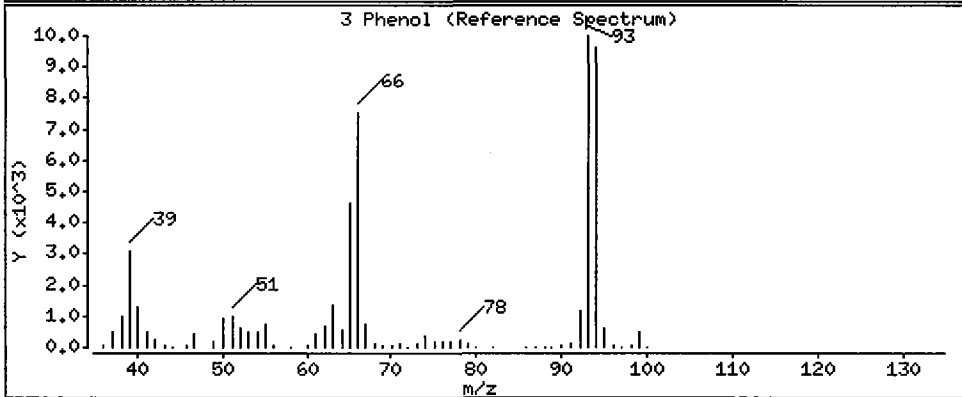
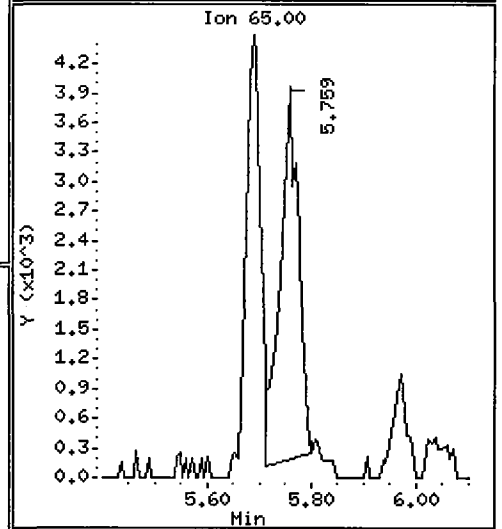
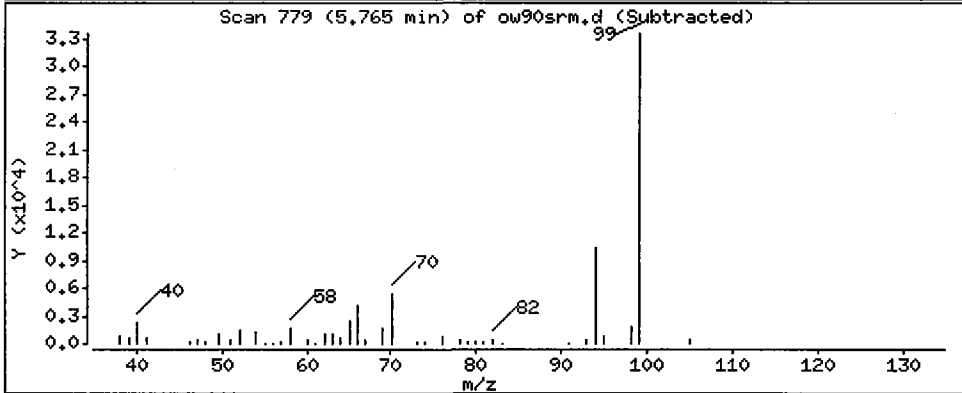
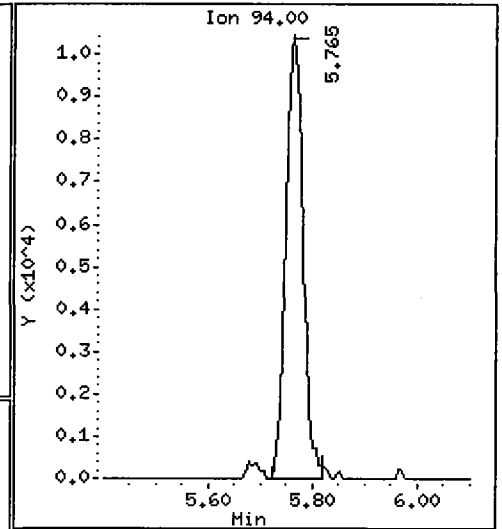
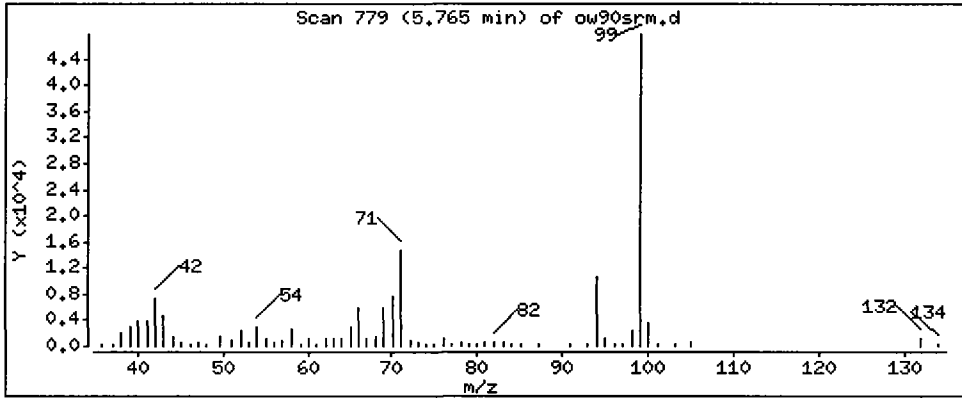
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

3 Phenol

Concentration: 32.88 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

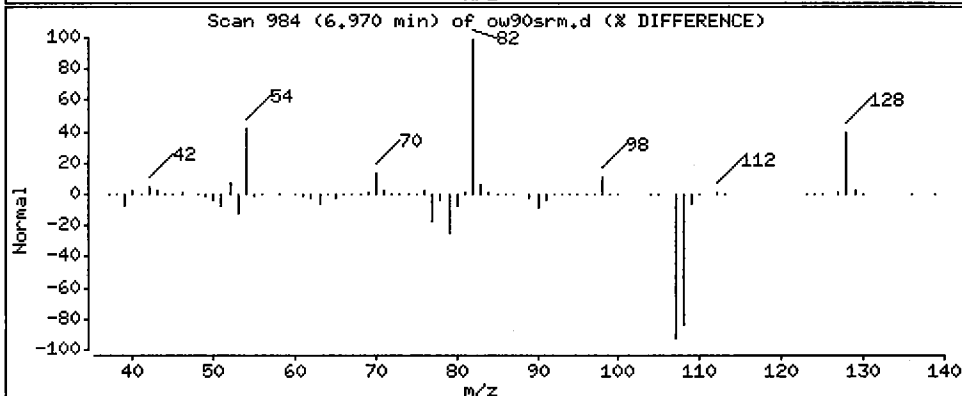
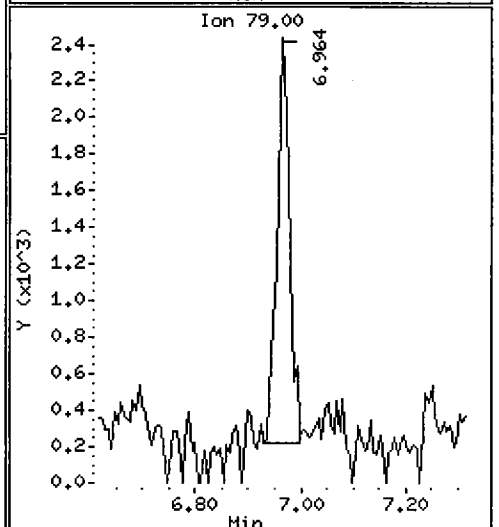
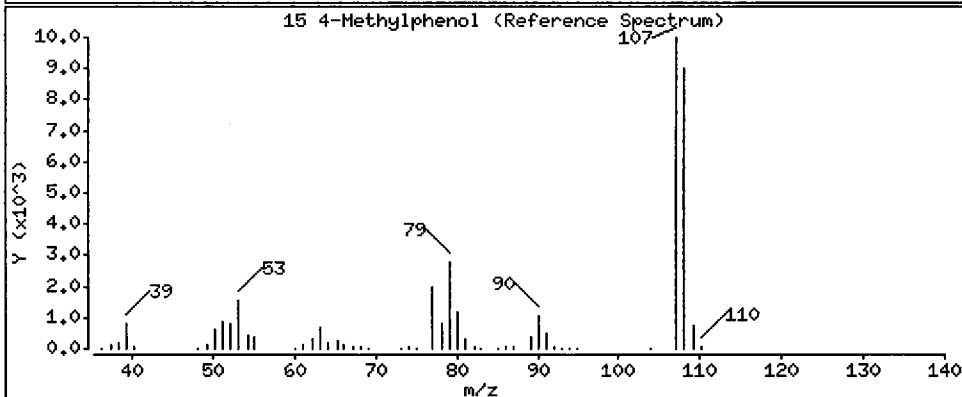
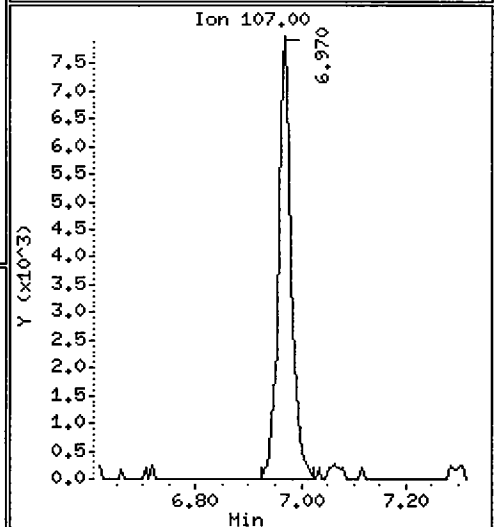
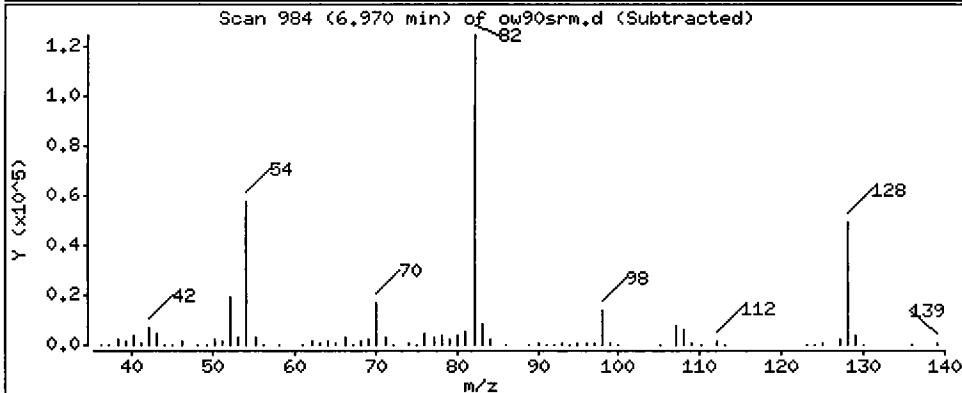
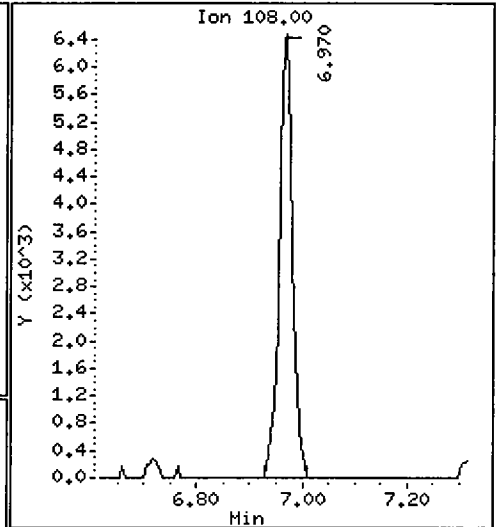
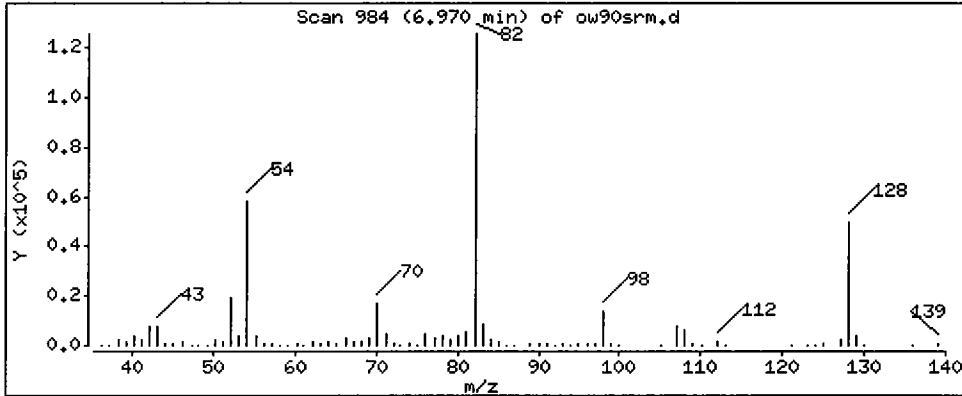
Column phase: ZB-5

Column diameter: 0.32

15 4-Methylphenol

Concentration: 24.64 ug/kg

JCR



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

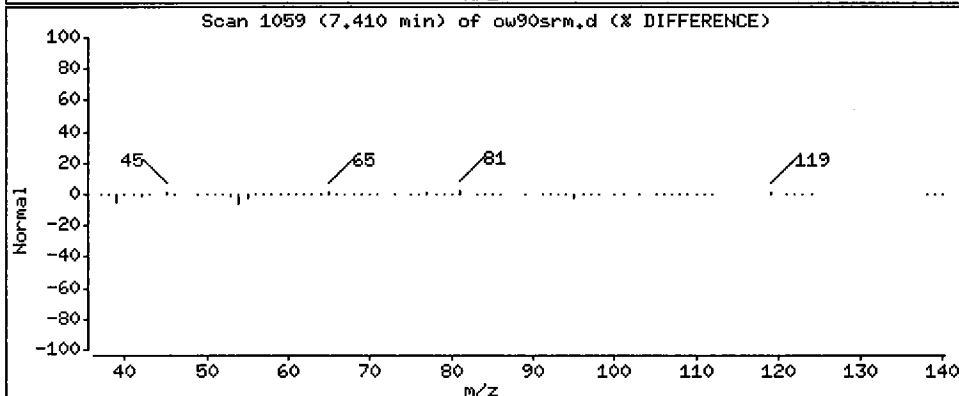
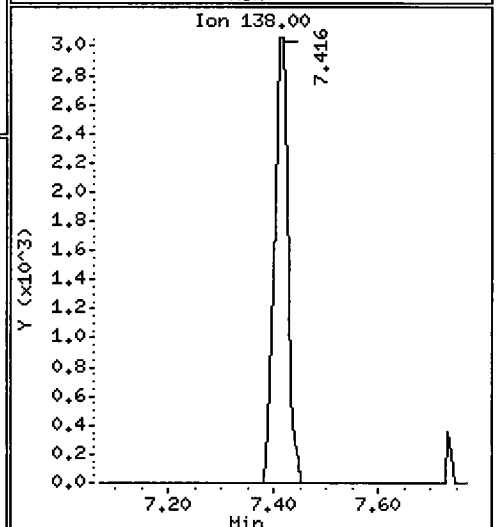
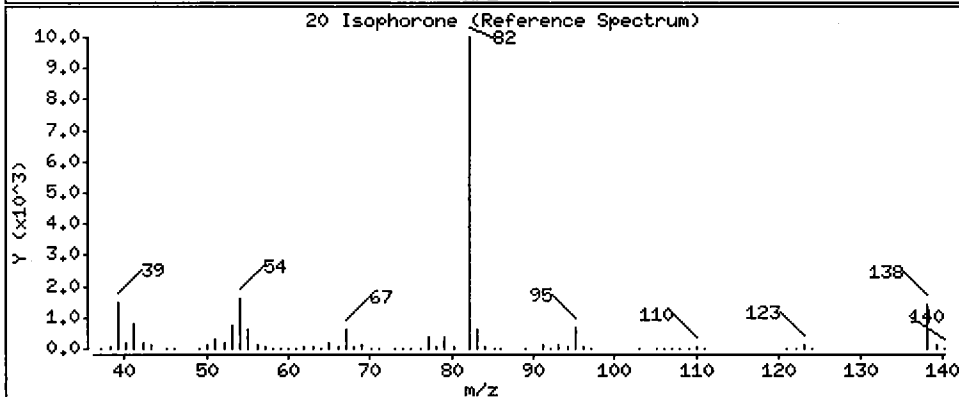
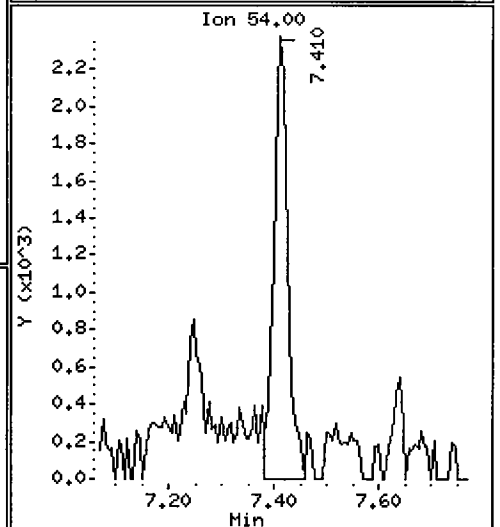
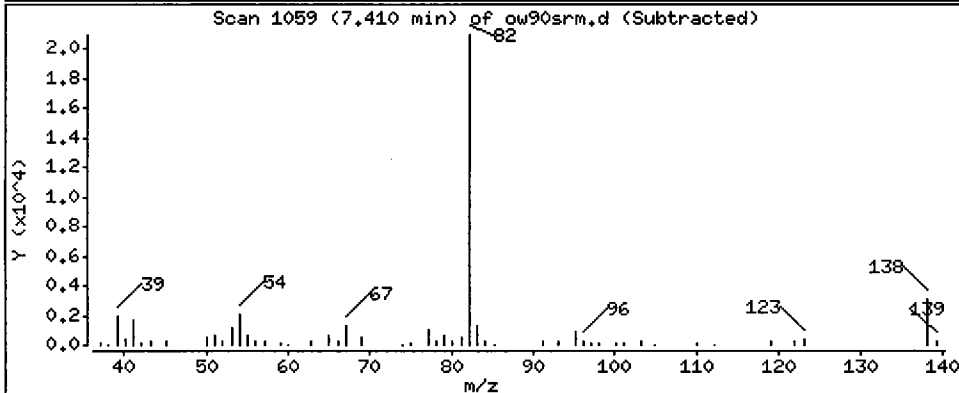
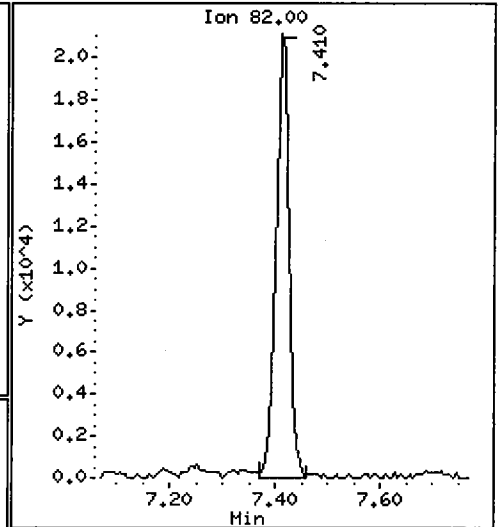
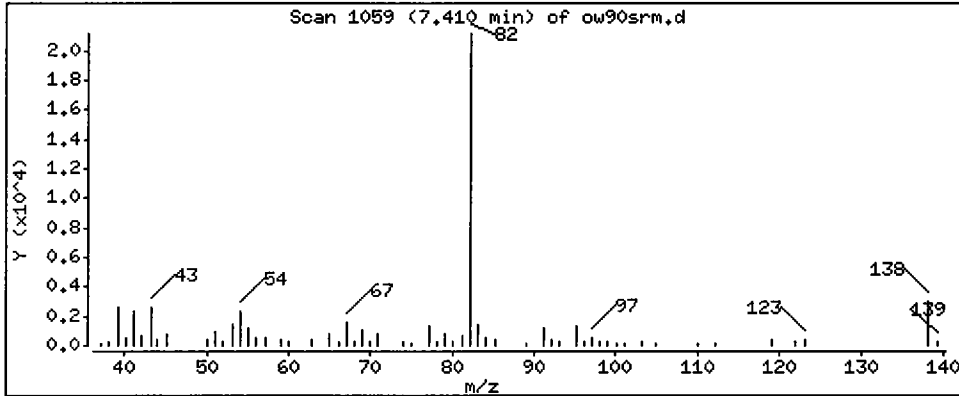
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

20 Isophorone

Concentration: 37.89 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

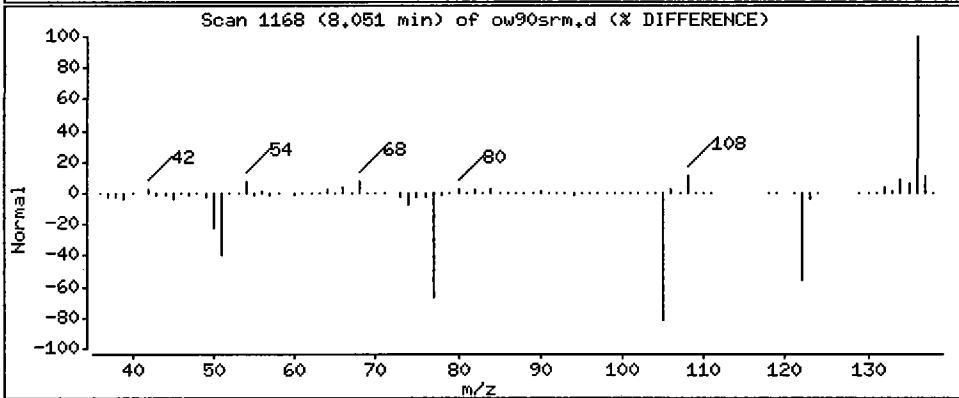
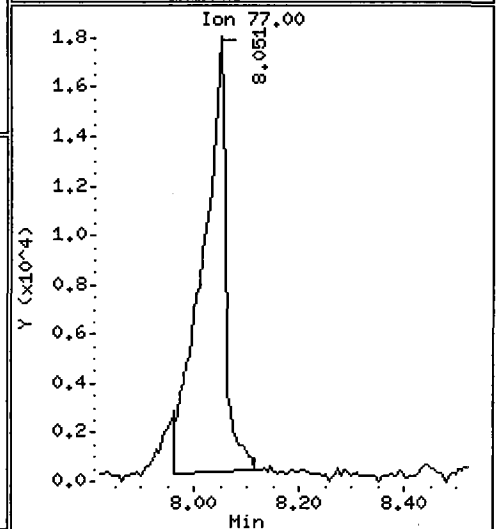
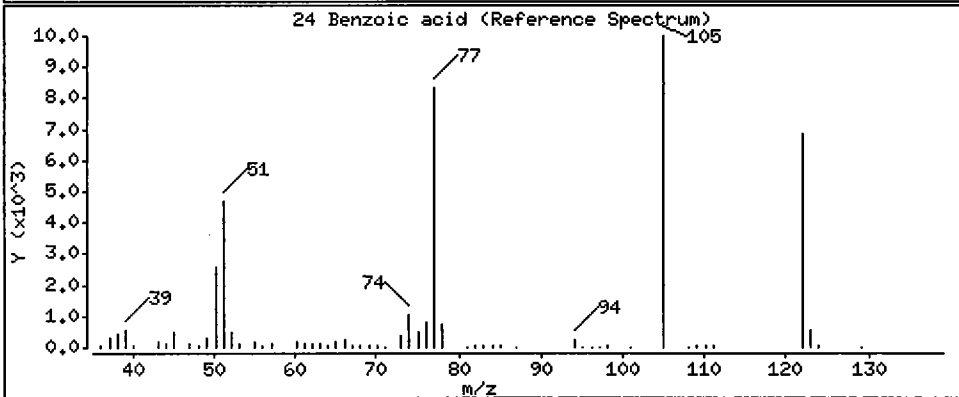
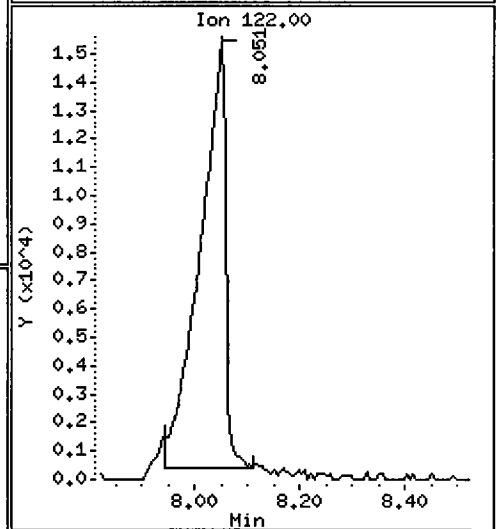
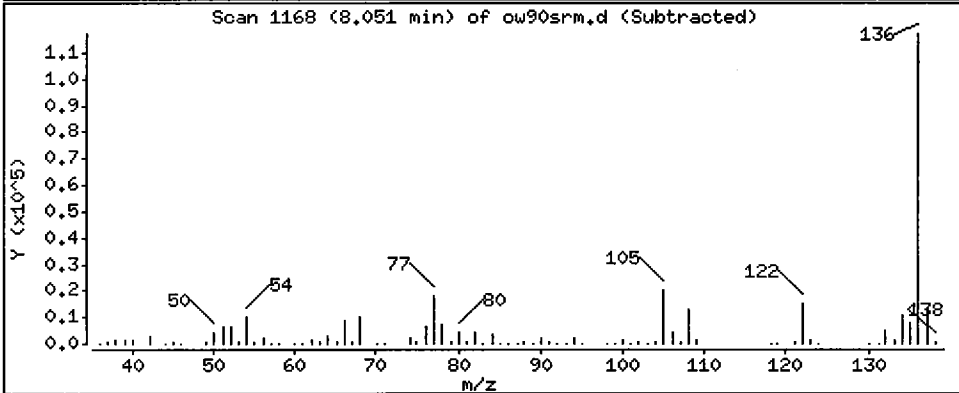
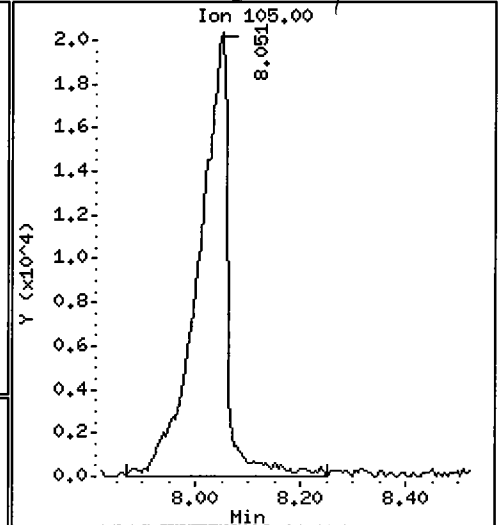
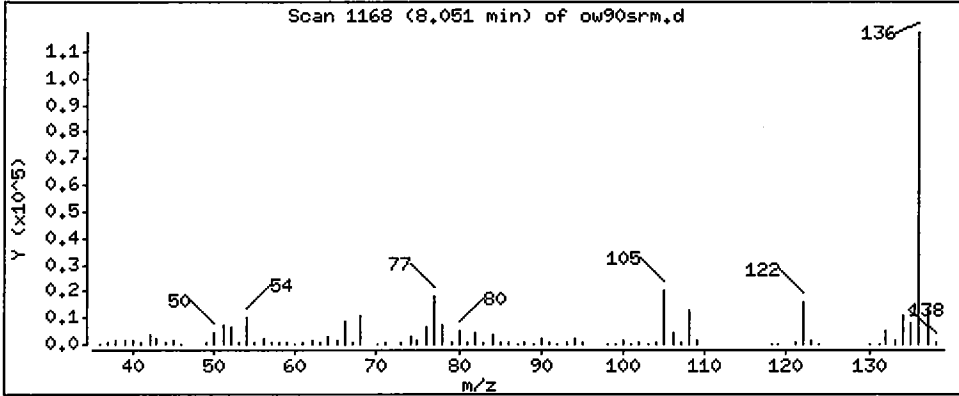
Column phase: ZB-5

Column diameter: 0,32

24 Benzoic acid

Concentration: 223,3 ug/kg

Handwritten notes: LJR, CUT



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

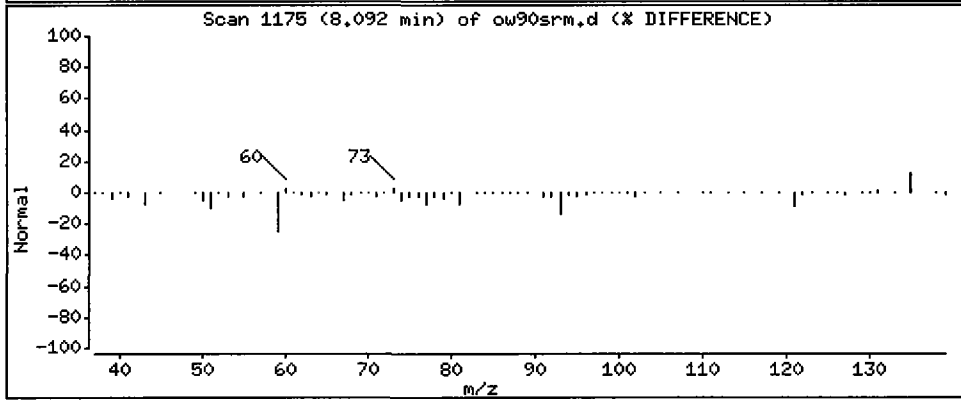
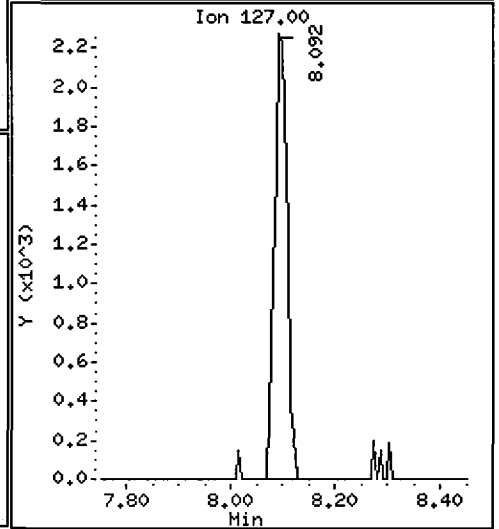
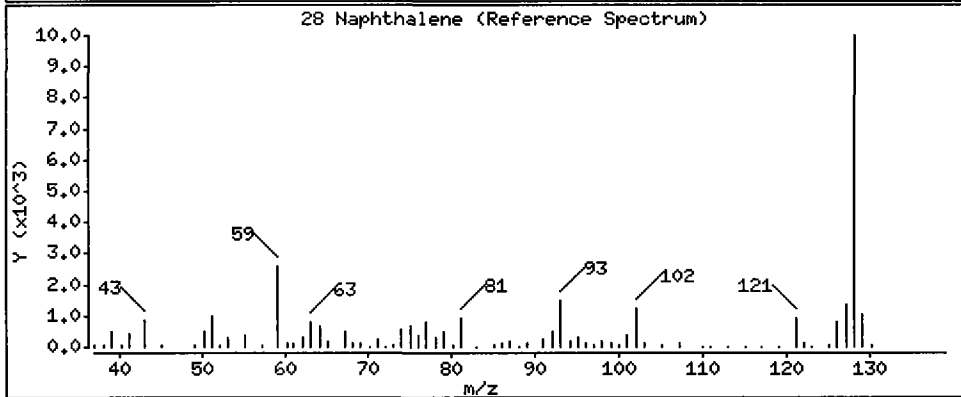
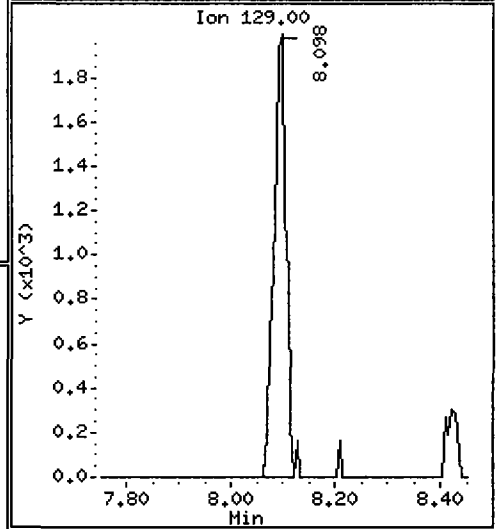
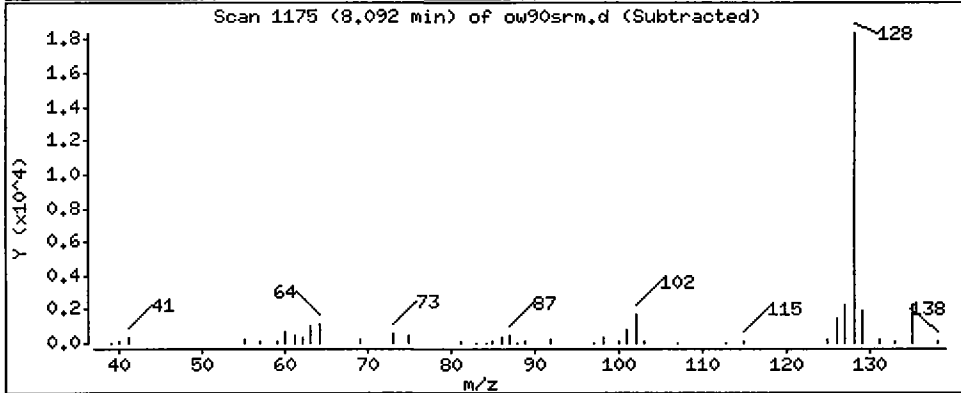
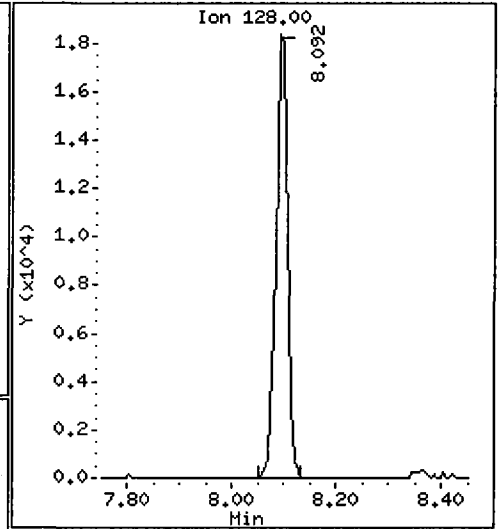
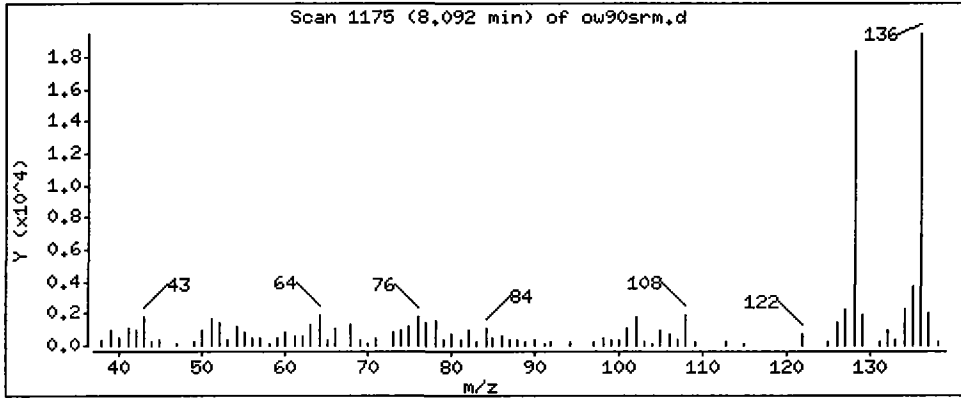
Column phase: ZB-5

Column diameter: 0.32

TLR

28 Naphthalene

Concentration: 27.27 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

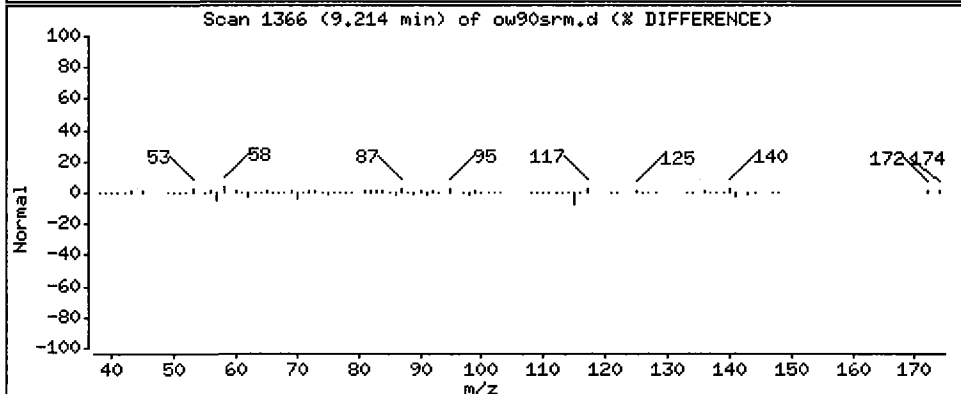
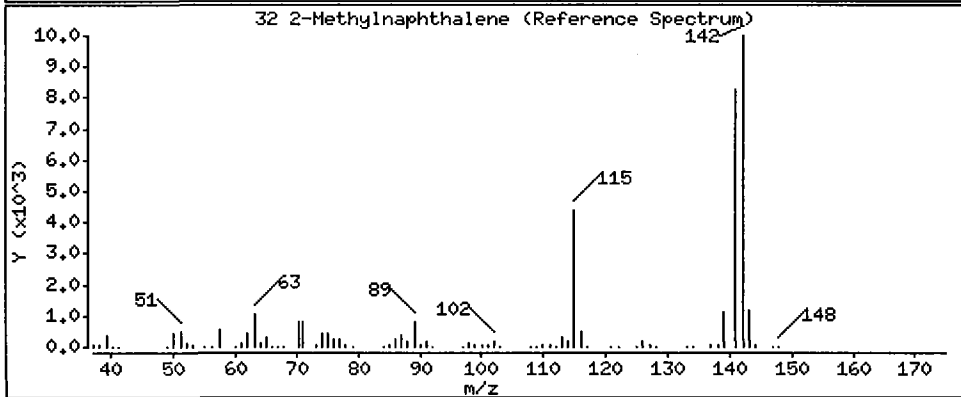
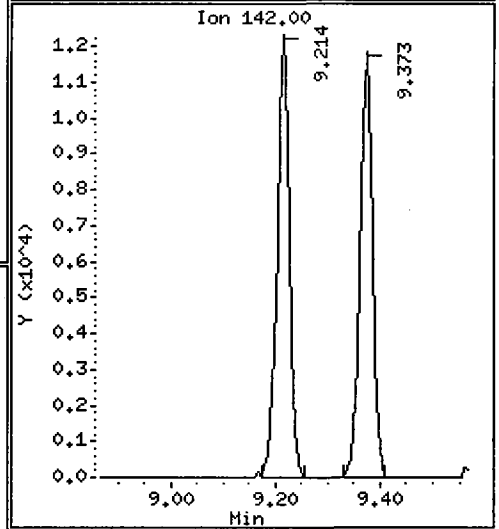
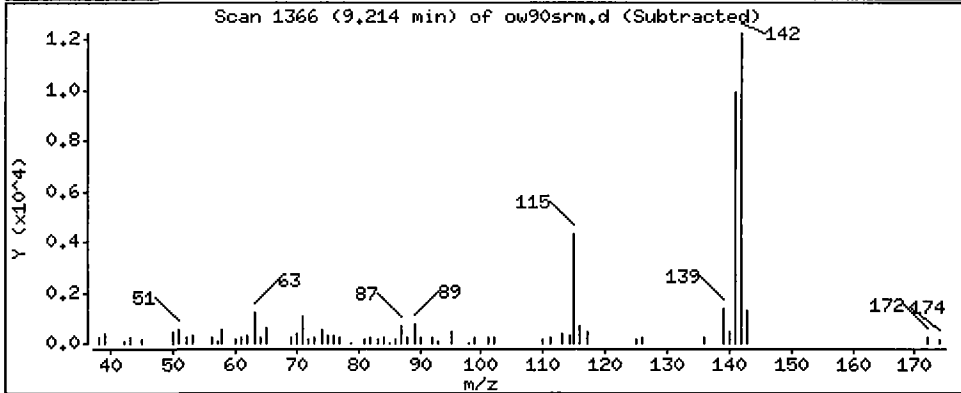
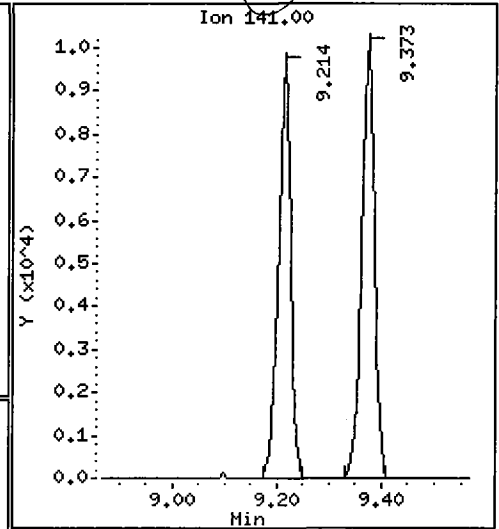
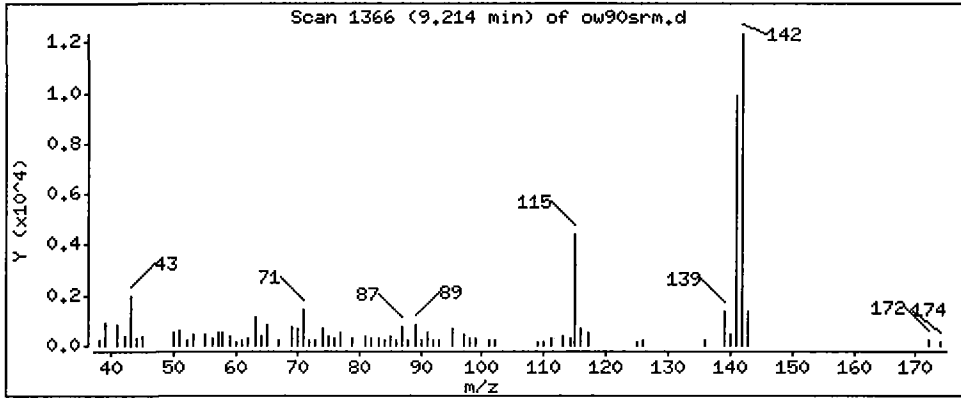
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

32 2-Methylnaphthalene

Concentration: 26.73 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

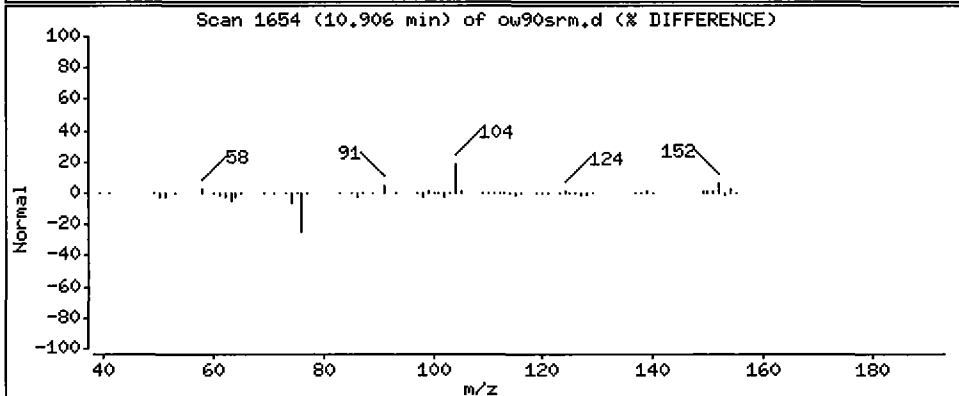
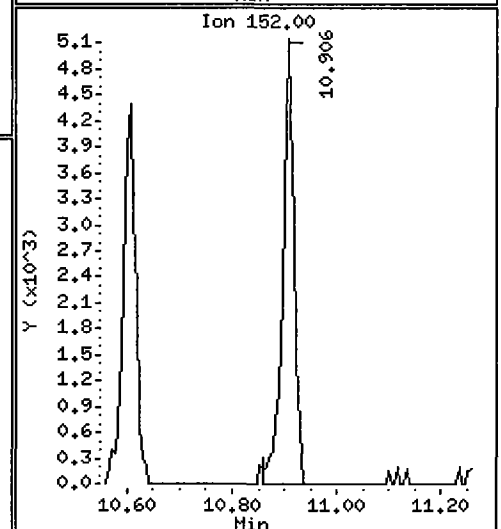
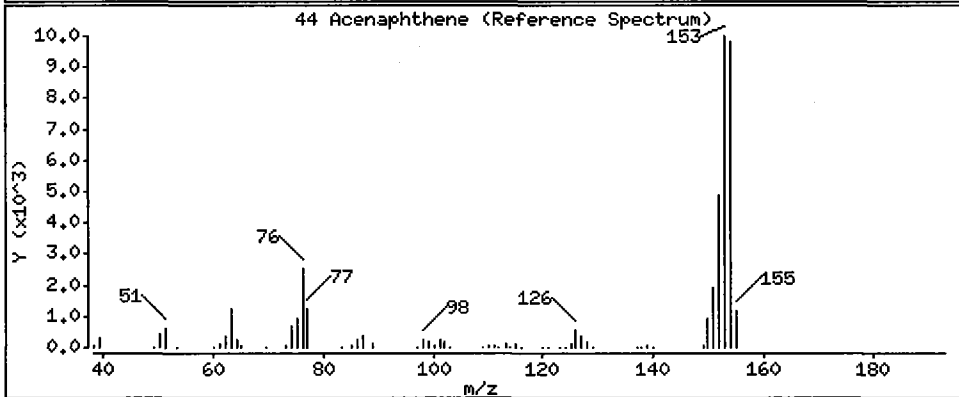
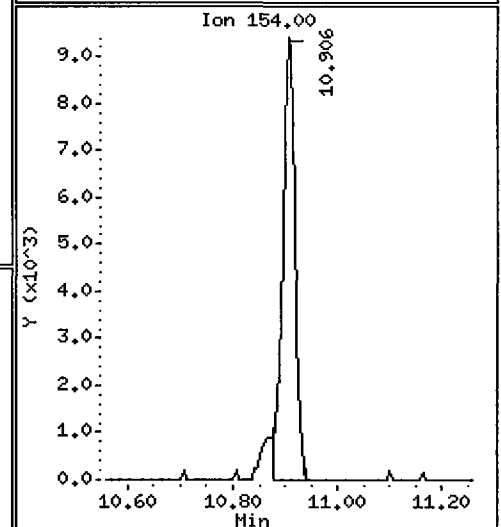
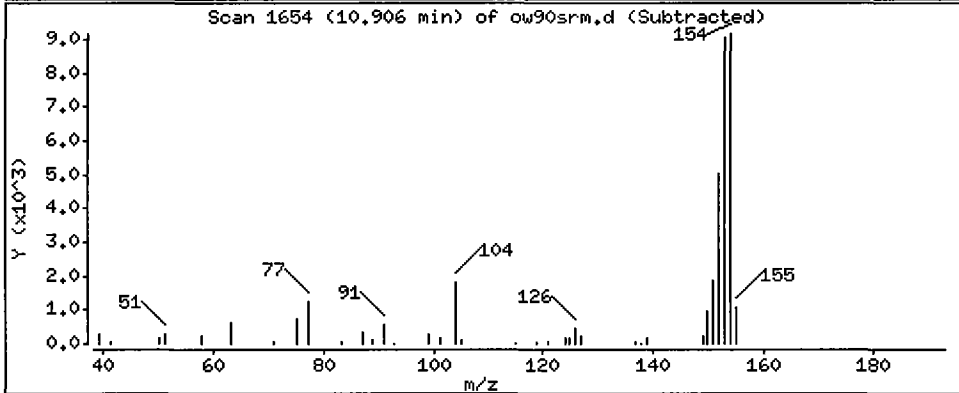
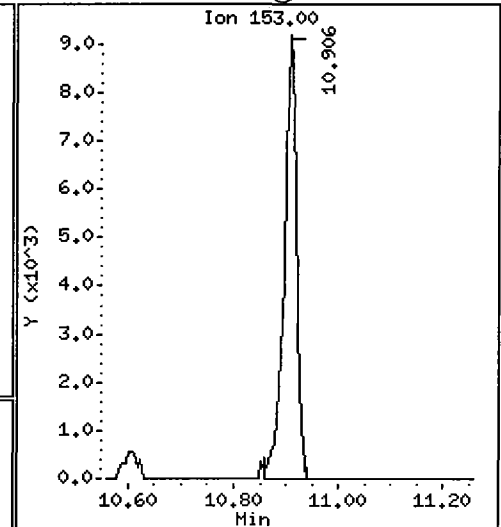
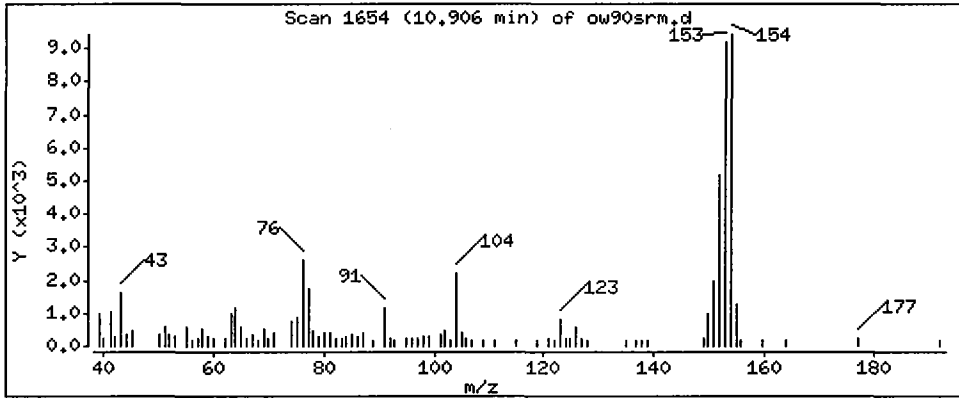
Column phase: ZB-5

Column diameter: 0.32

44 Acenaphthene

Concentration: 25.79 ug/kg

JLR



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

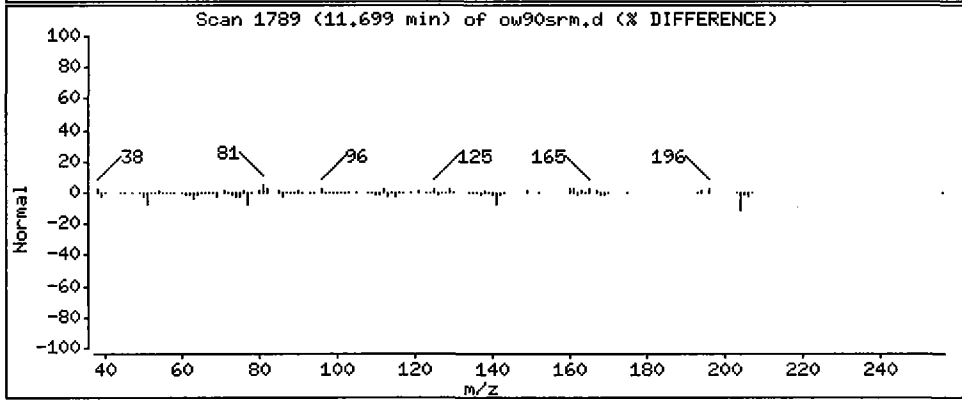
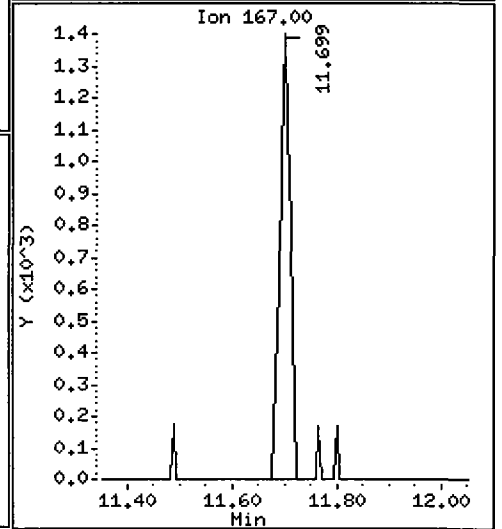
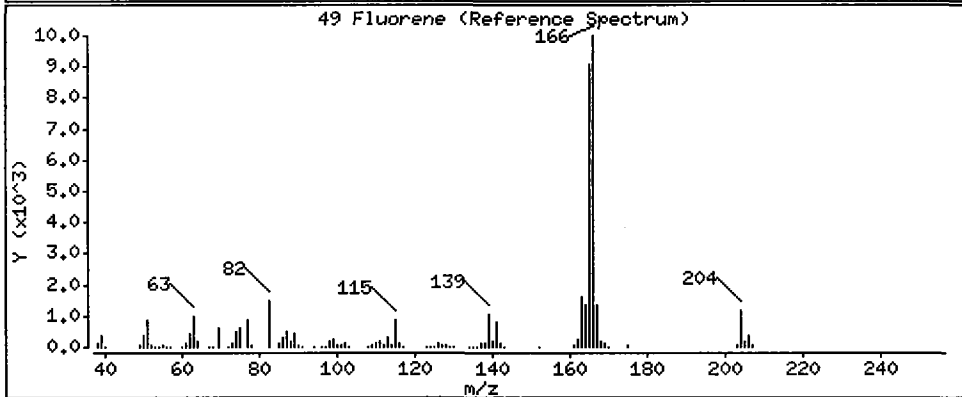
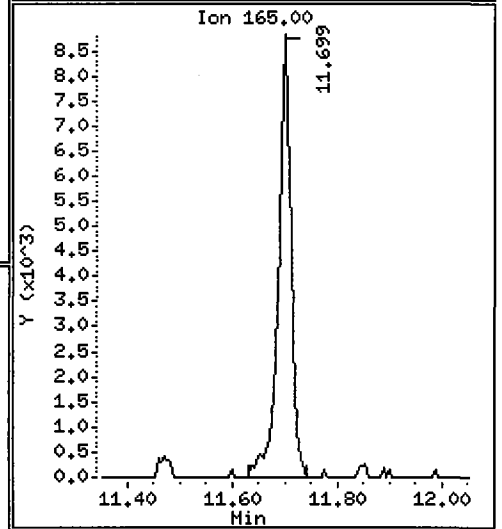
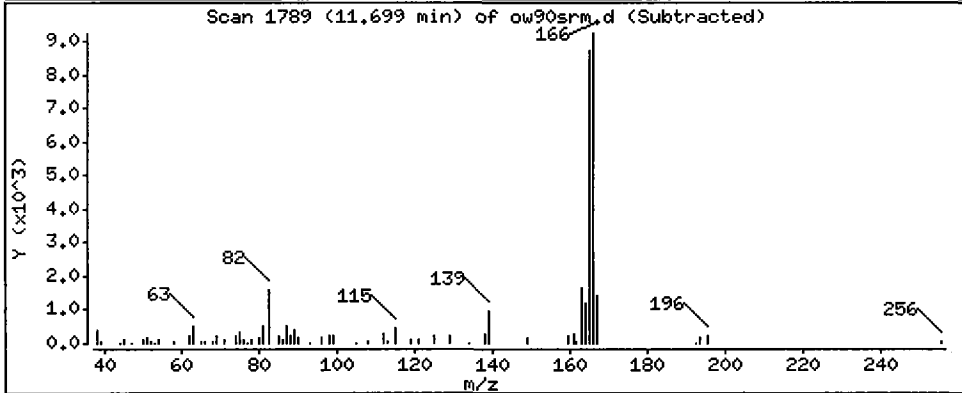
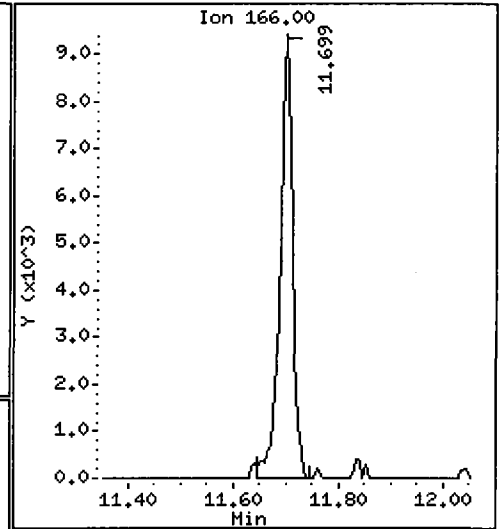
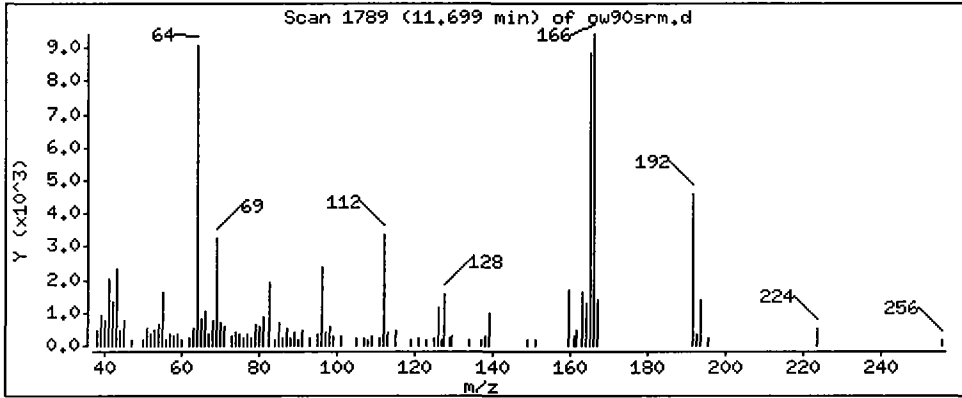
Column phase: ZB-5

Column diameter: 0.32

FLR

49 Fluorene

Concentration: 24.27 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

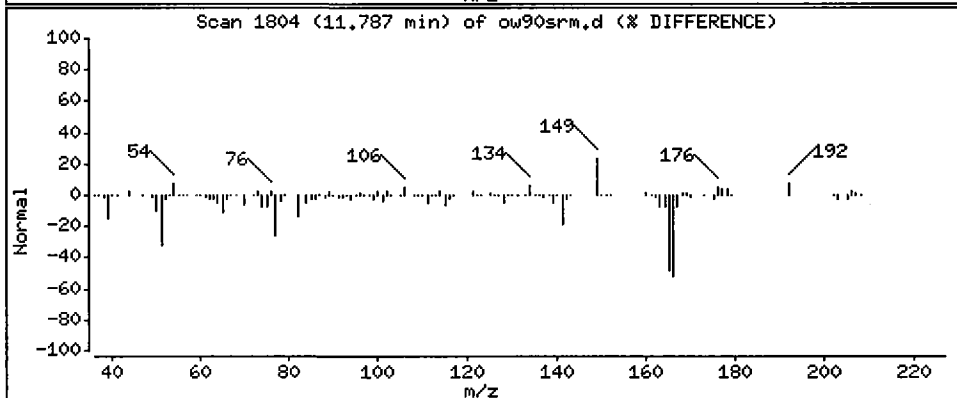
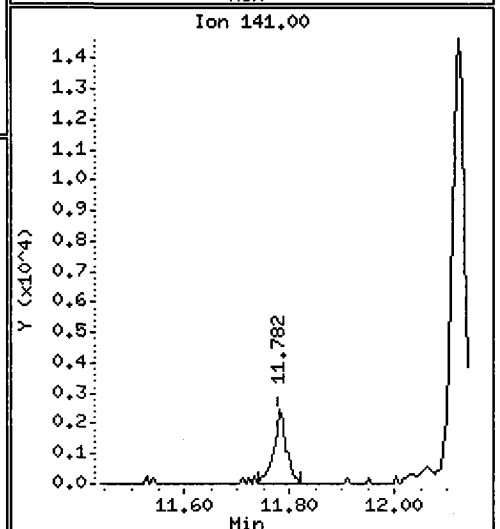
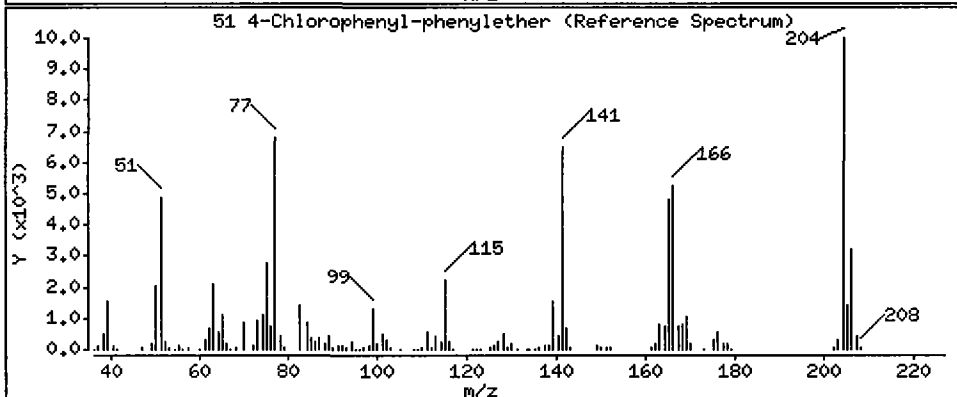
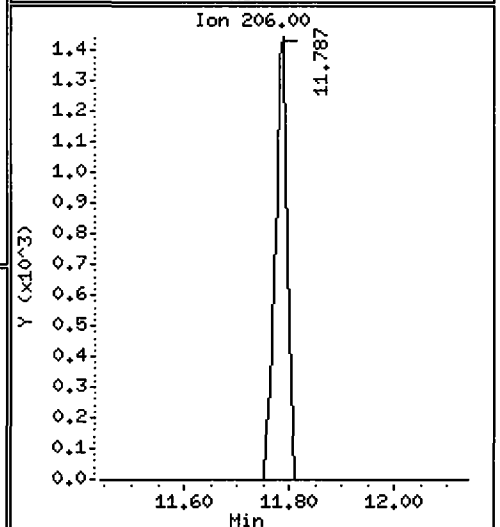
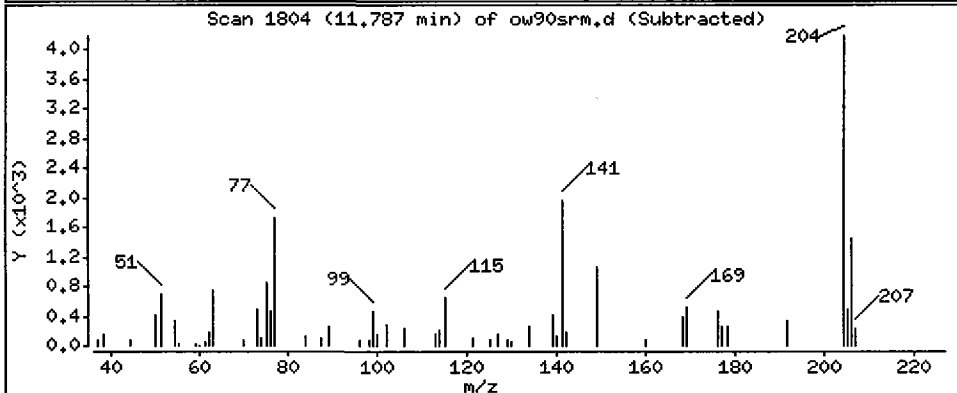
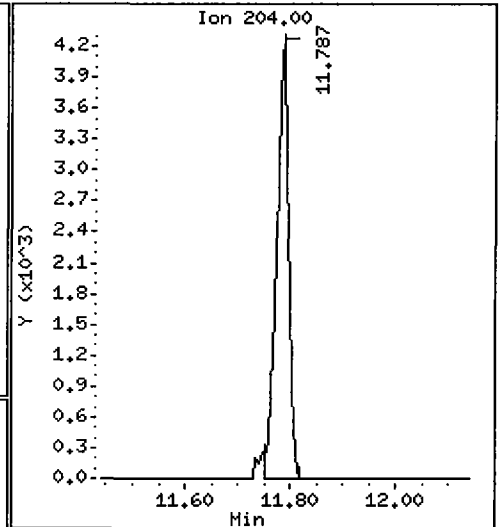
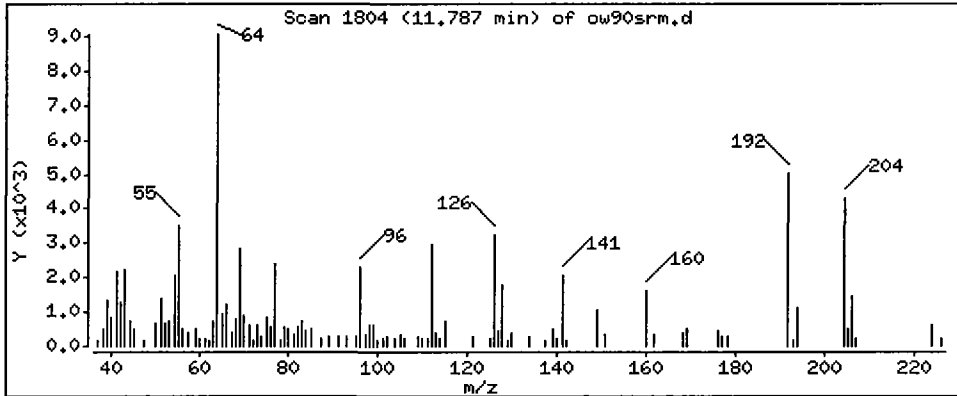
Column phase: ZB-5

Column diameter: 0.32

51 4-Chlorophenyl-phenylether

Concentration: 24.90 ug/kg

Handwritten signature



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

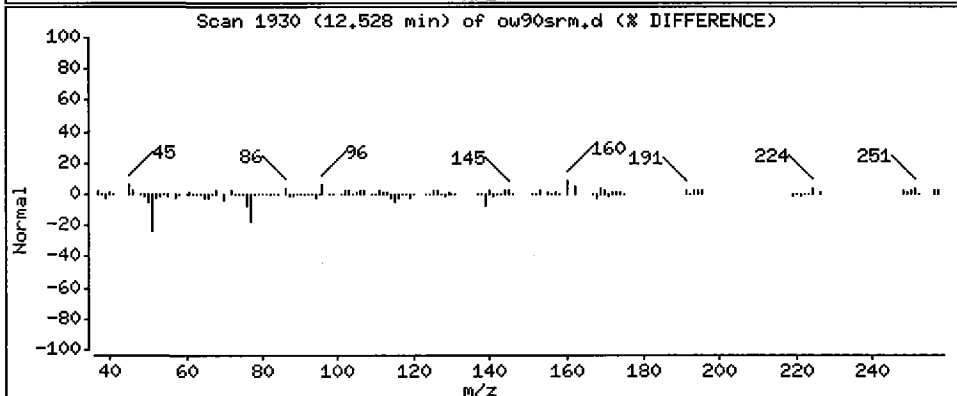
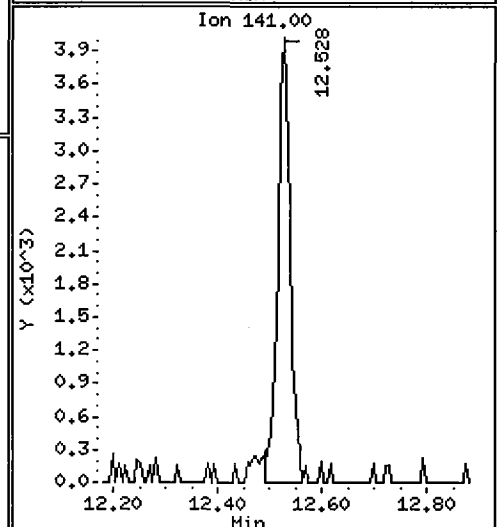
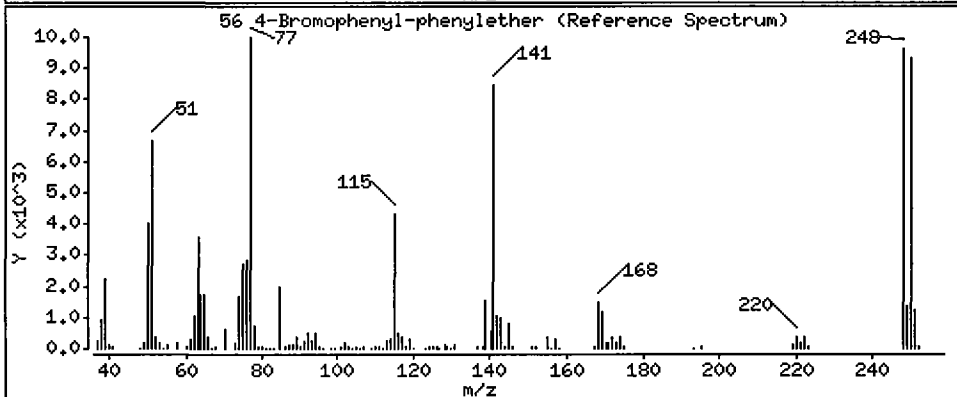
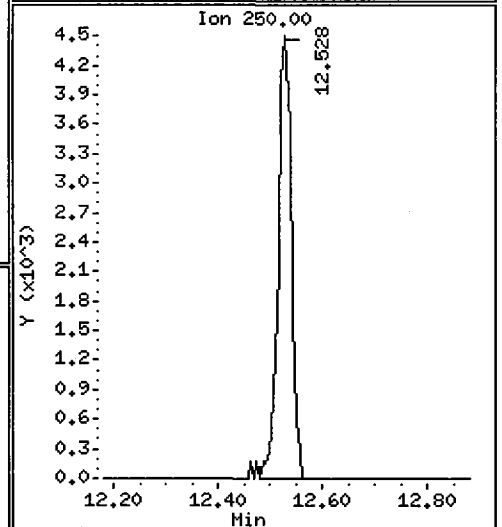
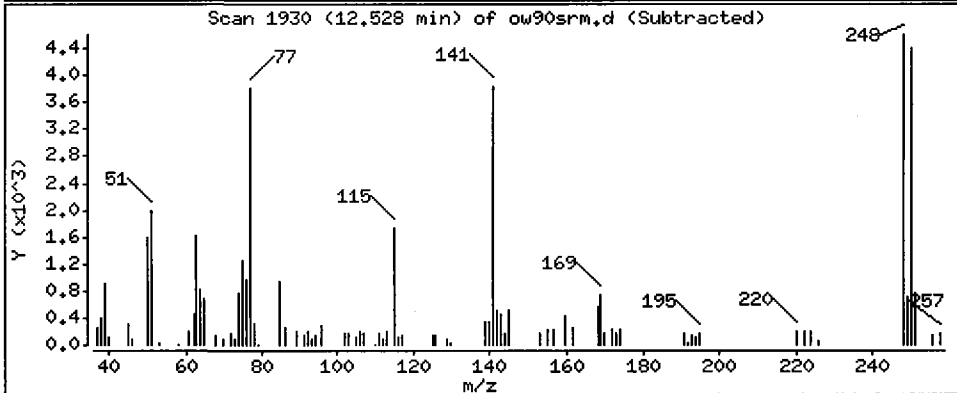
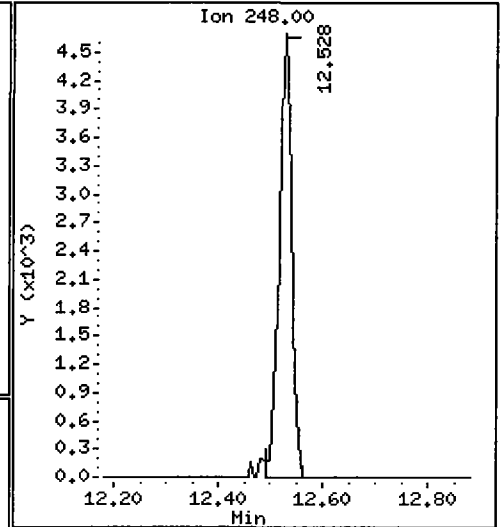
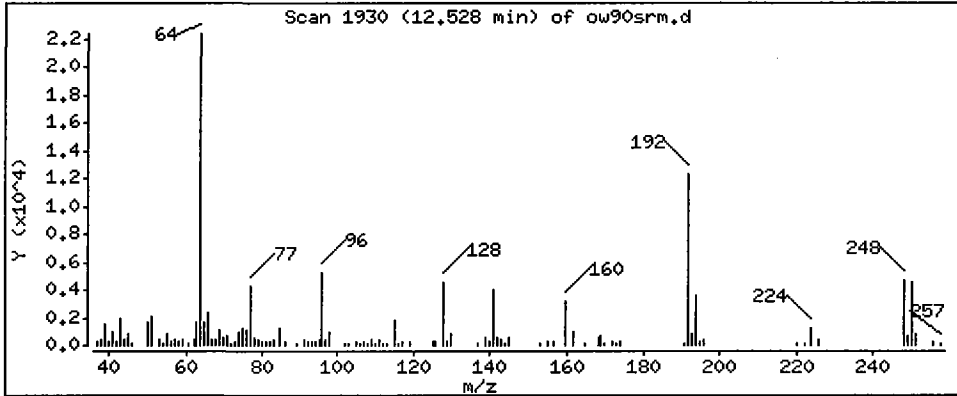
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

56 4-Bromophenyl-phenylether

Concentration: 52.48 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

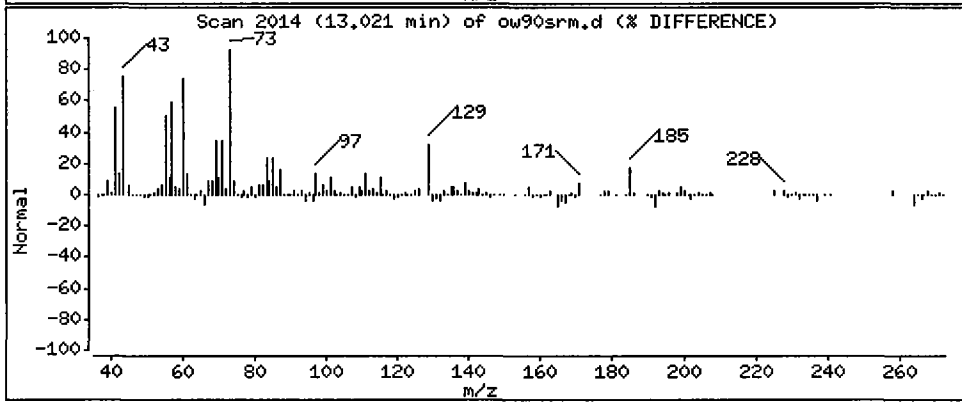
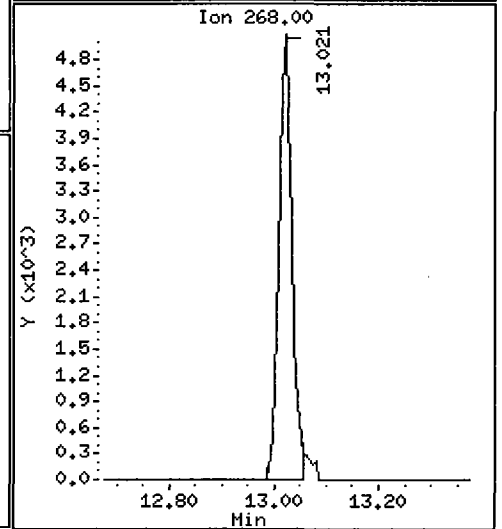
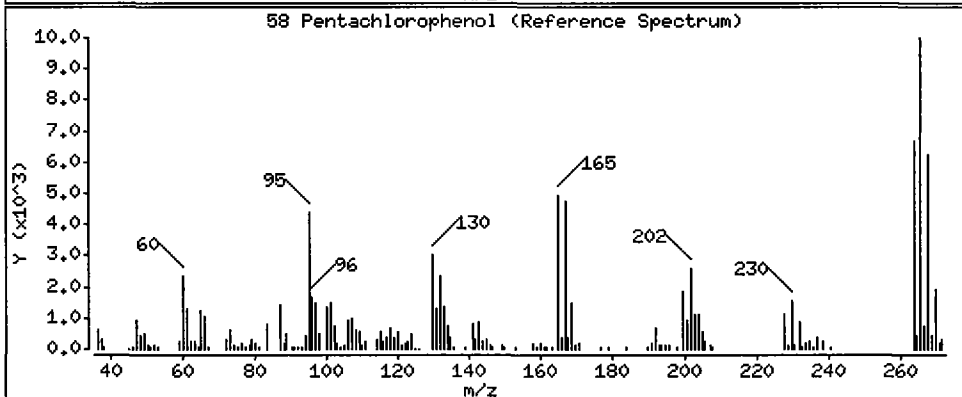
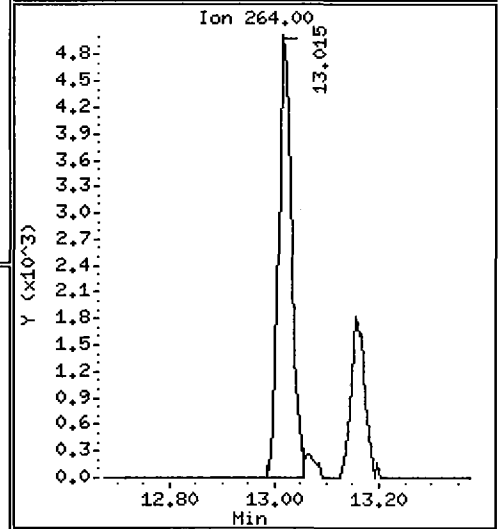
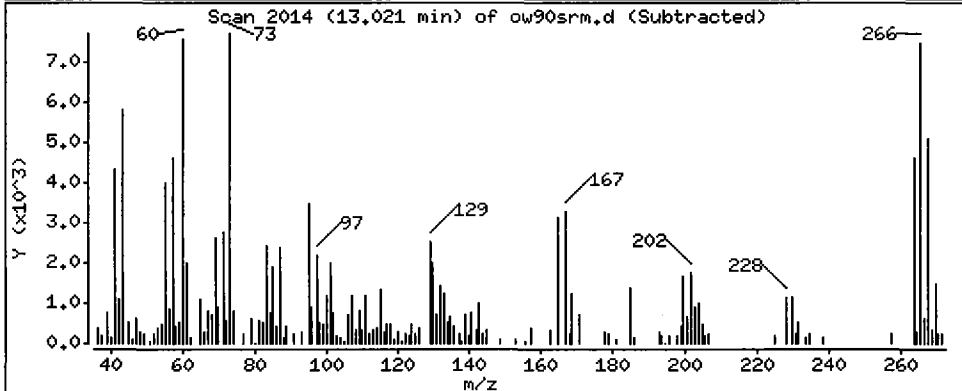
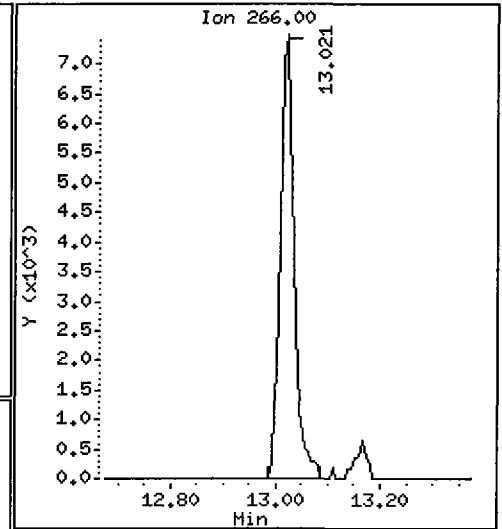
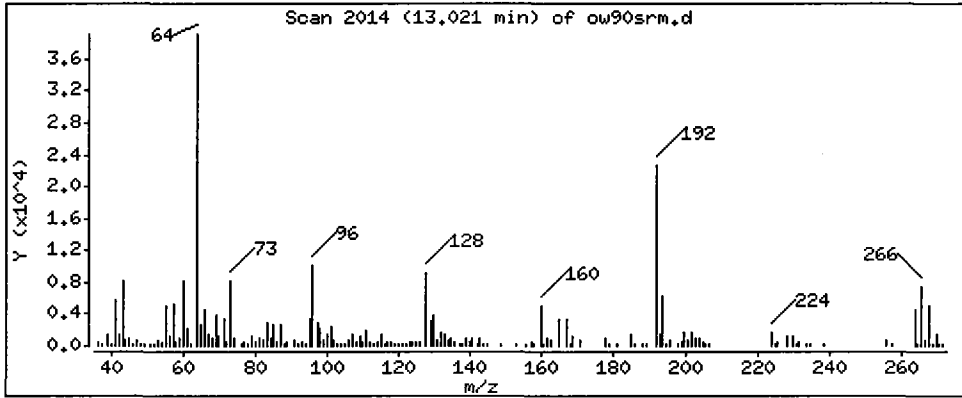
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

58 Pentachlorophenol

Concentration: 155.9 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

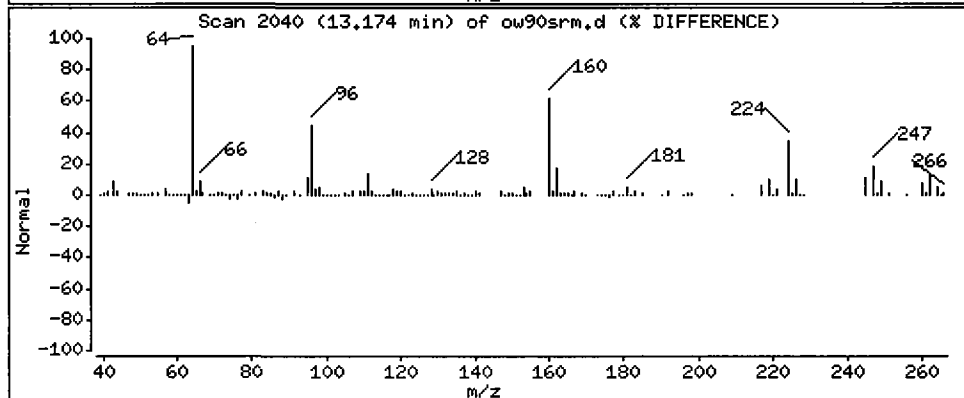
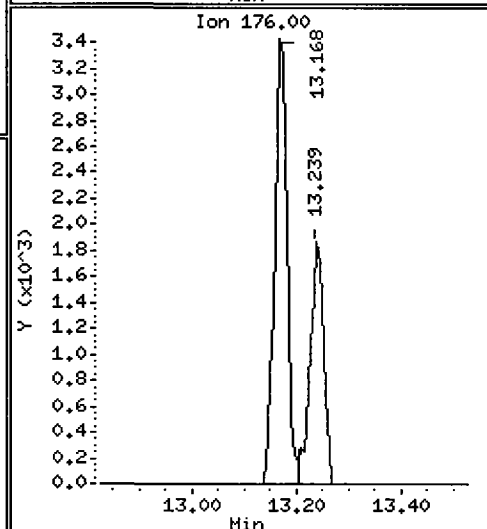
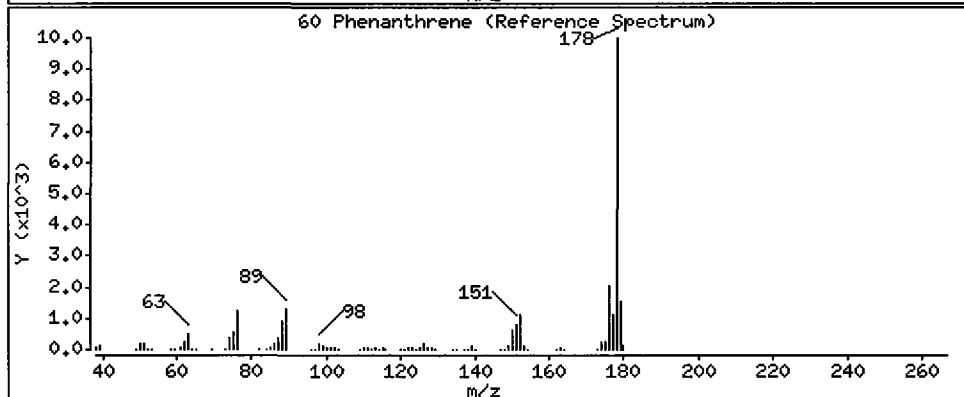
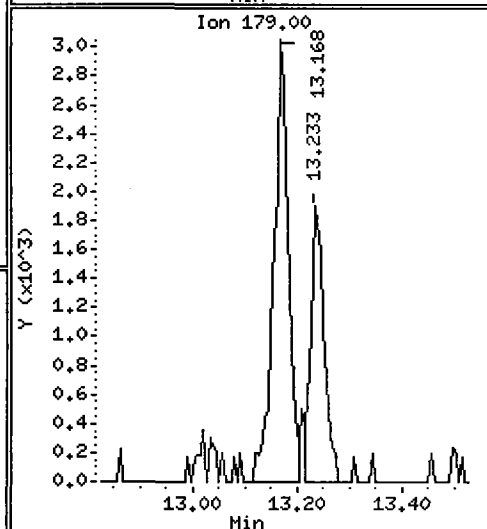
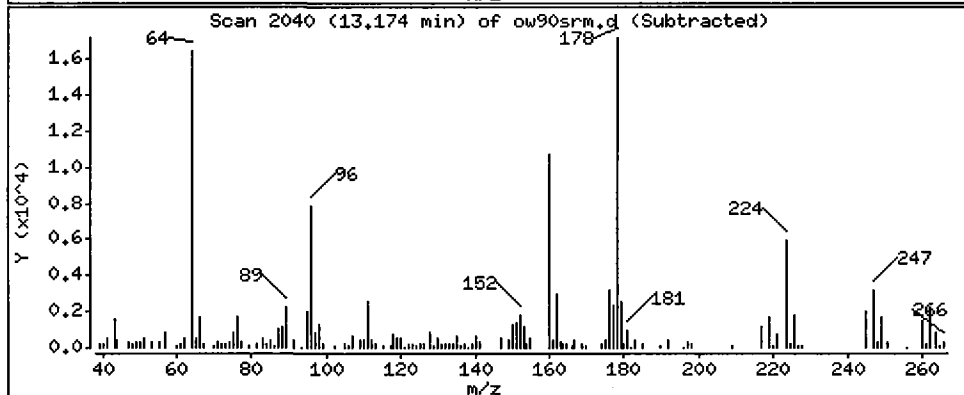
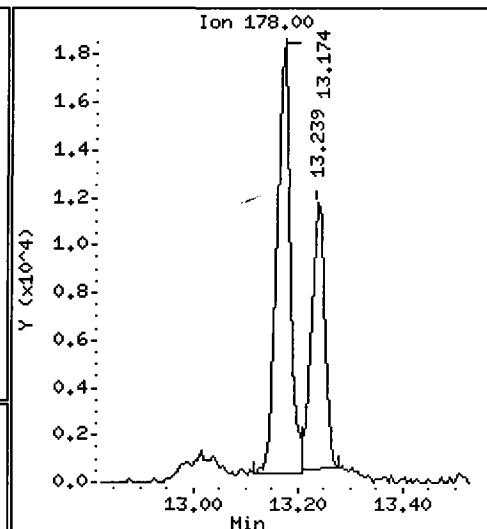
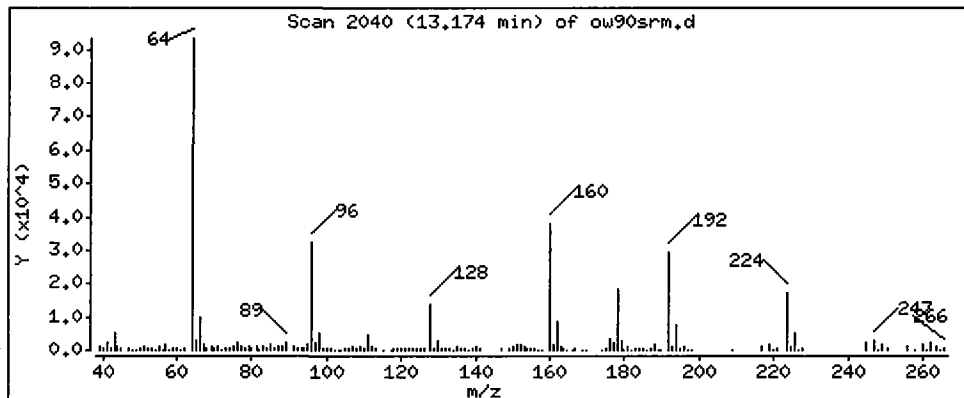
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

60 Phenanthrene

Concentration: 41.29 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

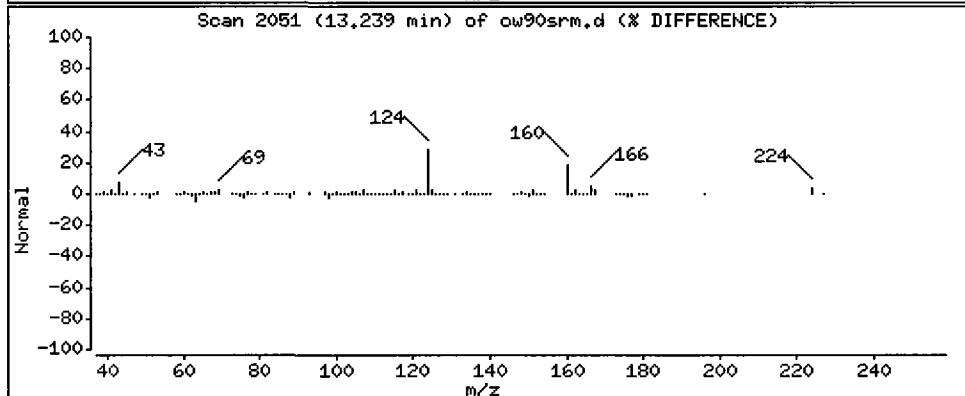
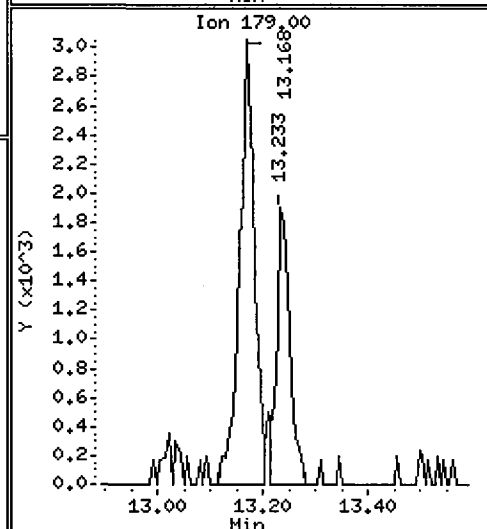
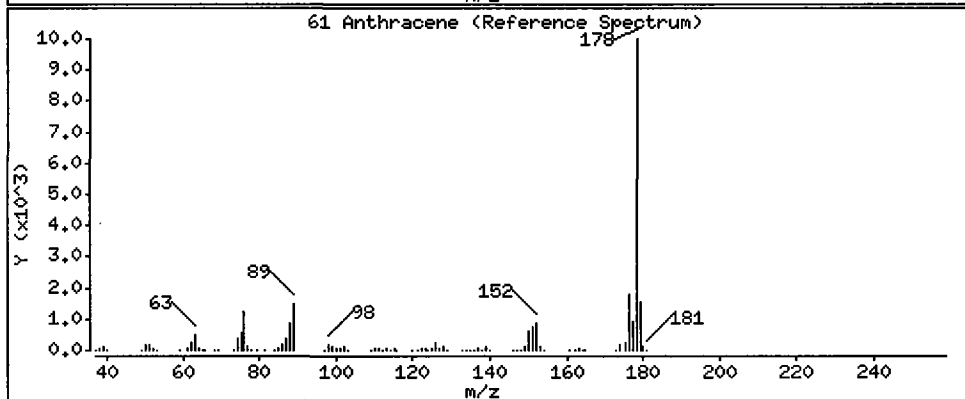
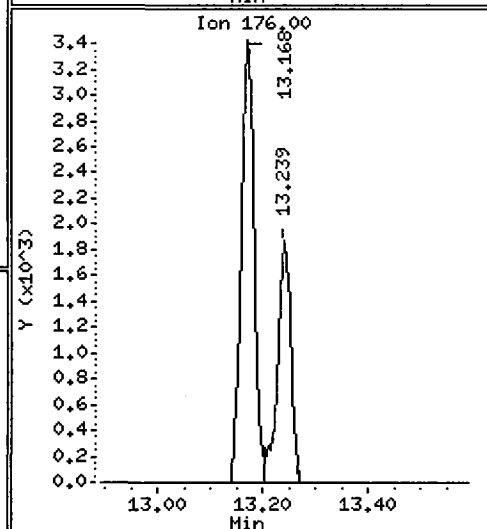
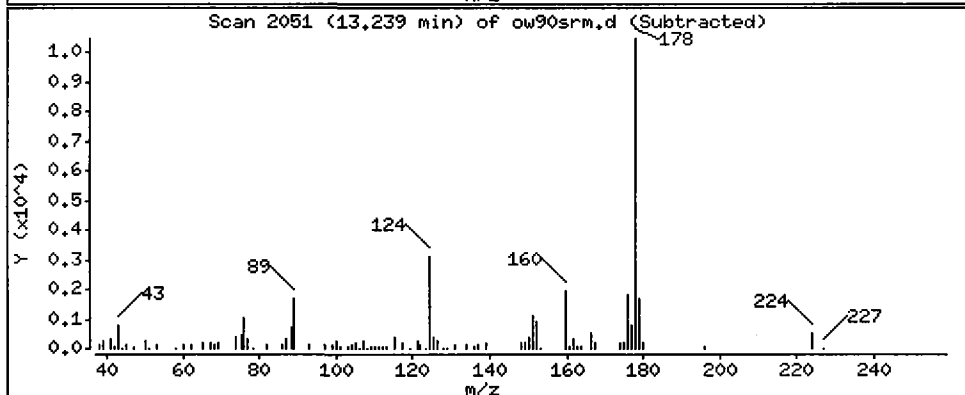
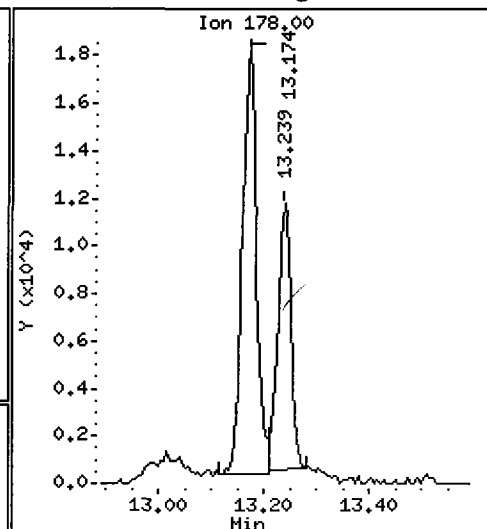
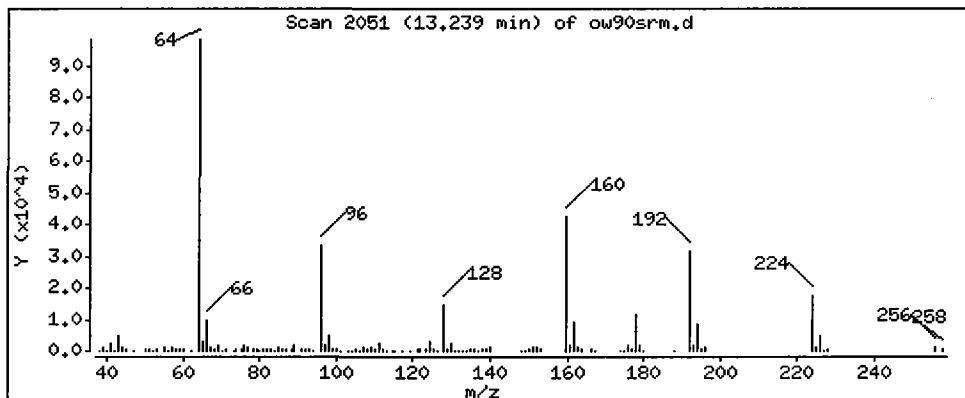
Column phase: ZB-5

Column diameter: 0.32

Over

61 Anthracene

Concentration: 24.24 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

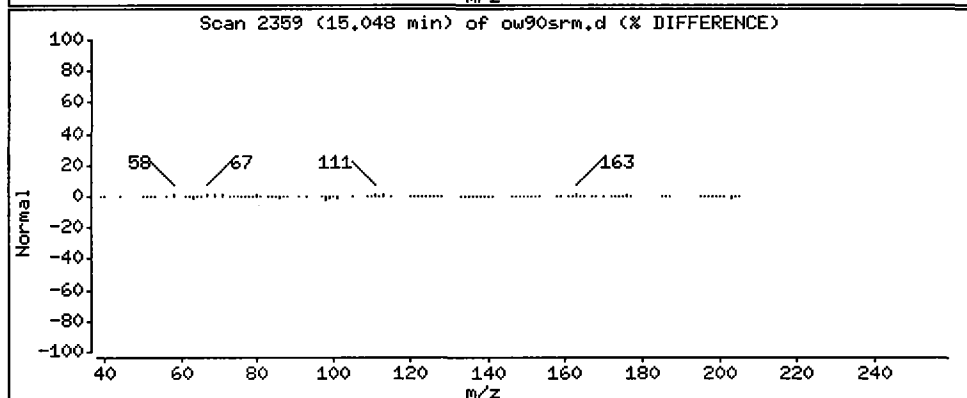
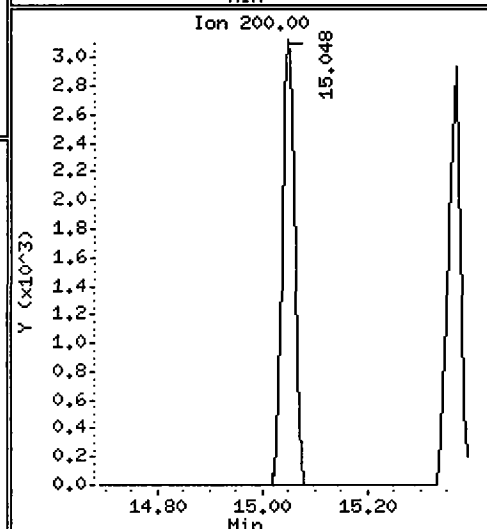
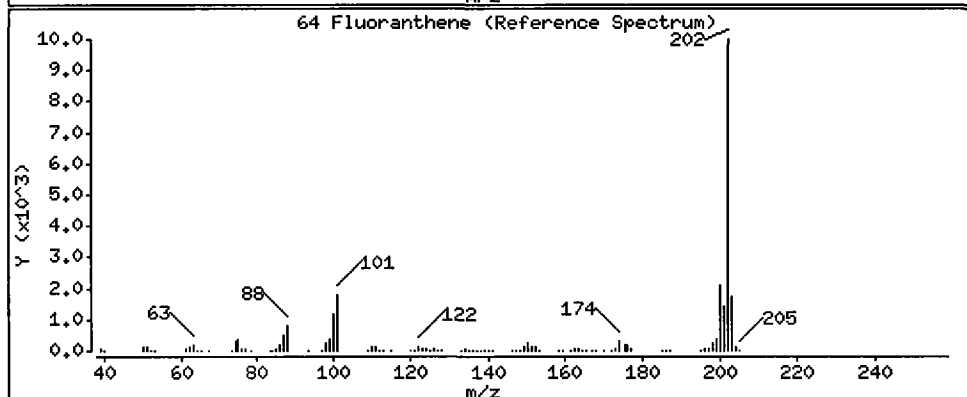
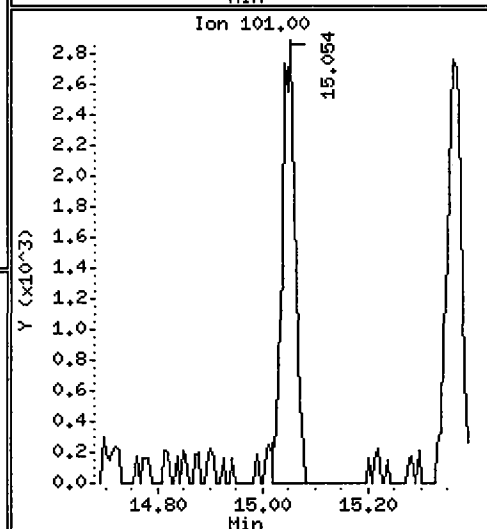
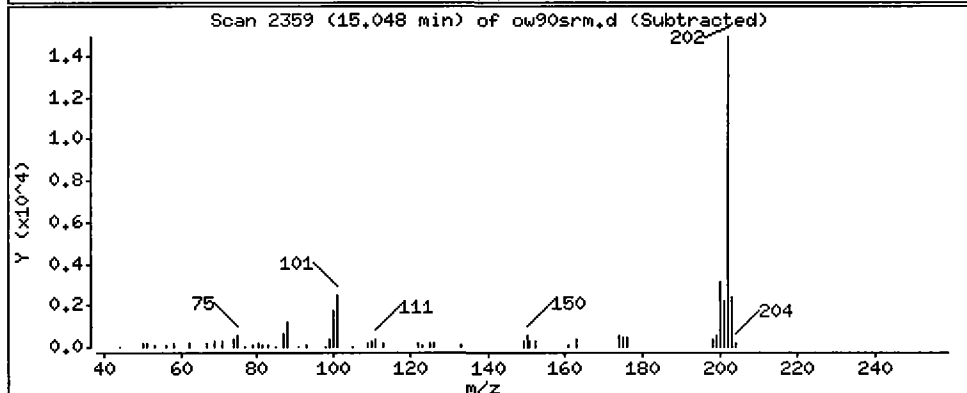
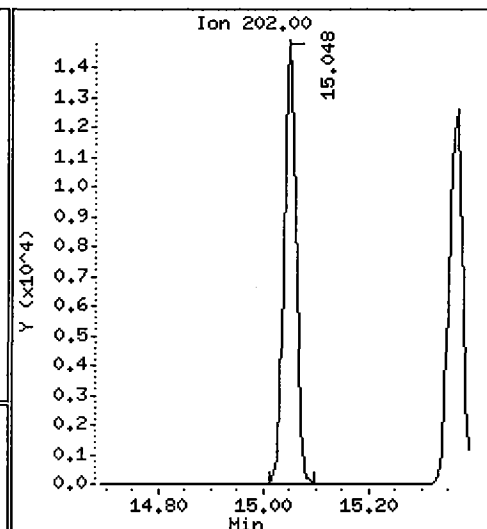
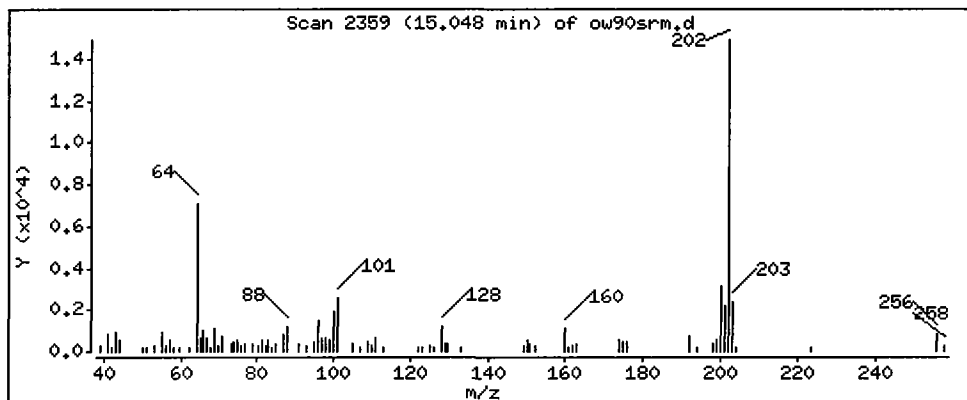
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

64 Fluoranthene

Concentration: 29.97 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

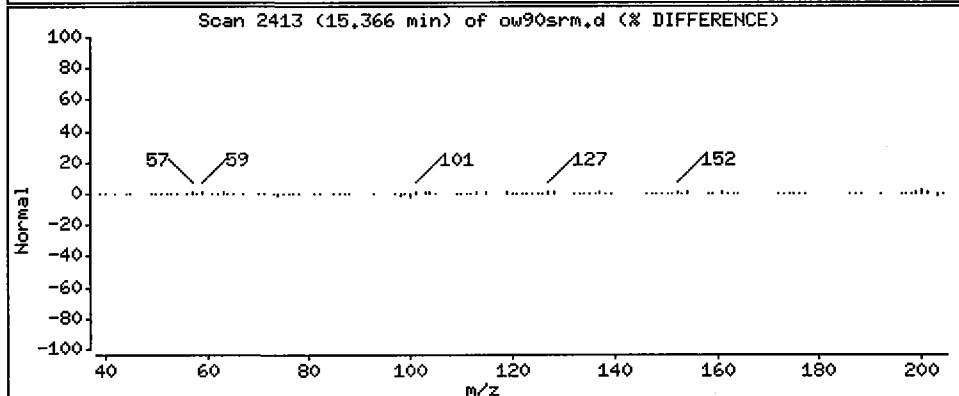
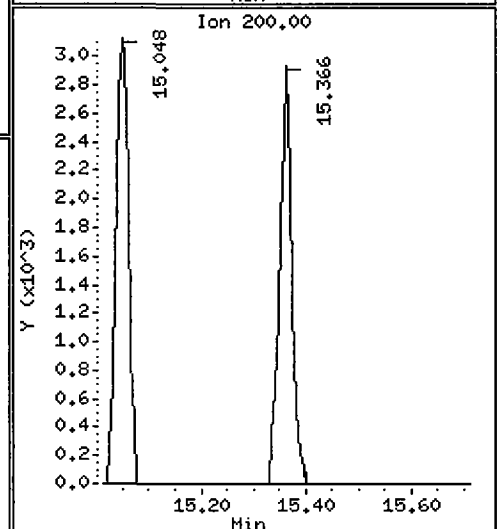
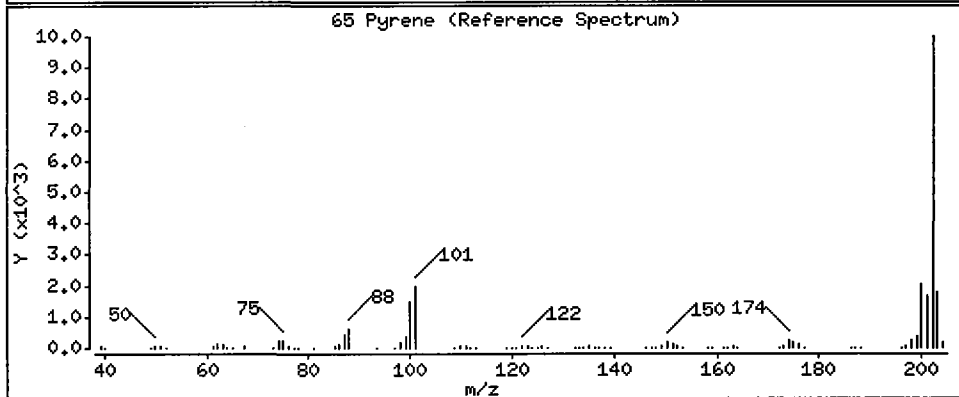
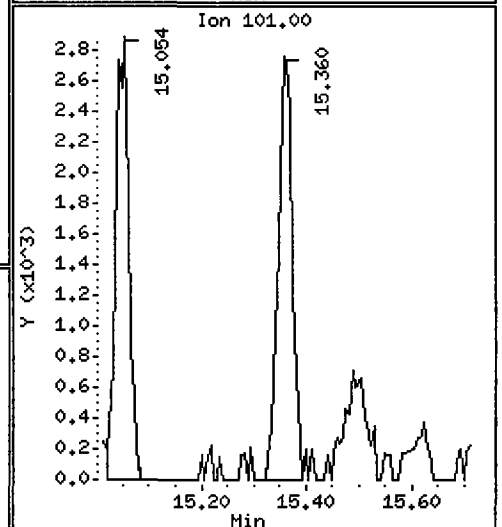
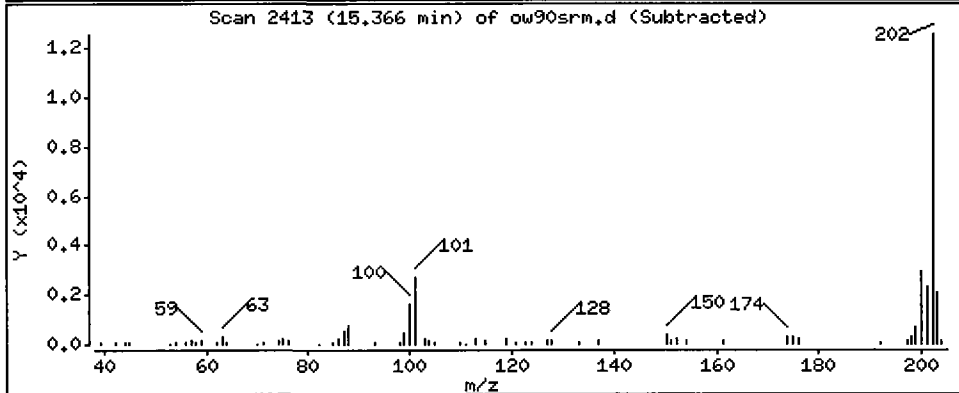
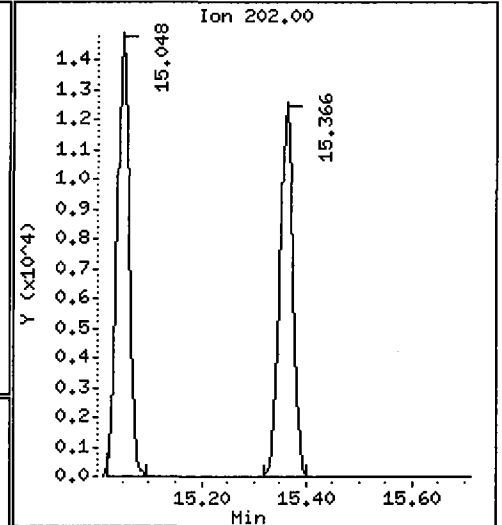
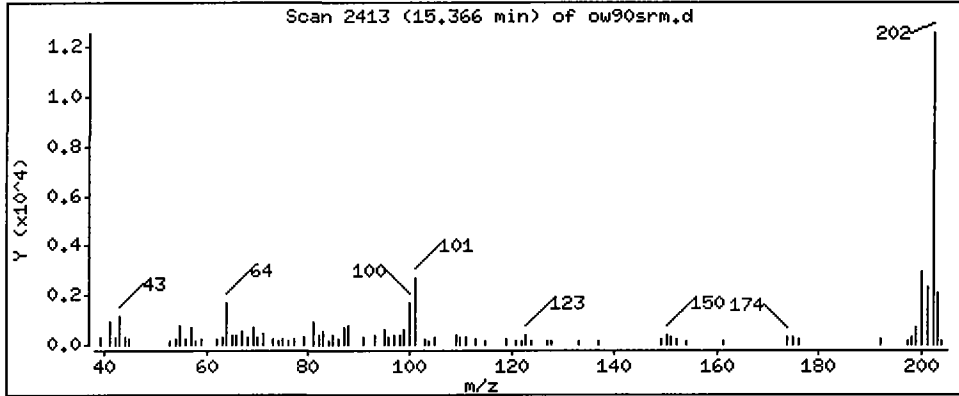
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

65 Pyrene

Concentration: 29.29 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

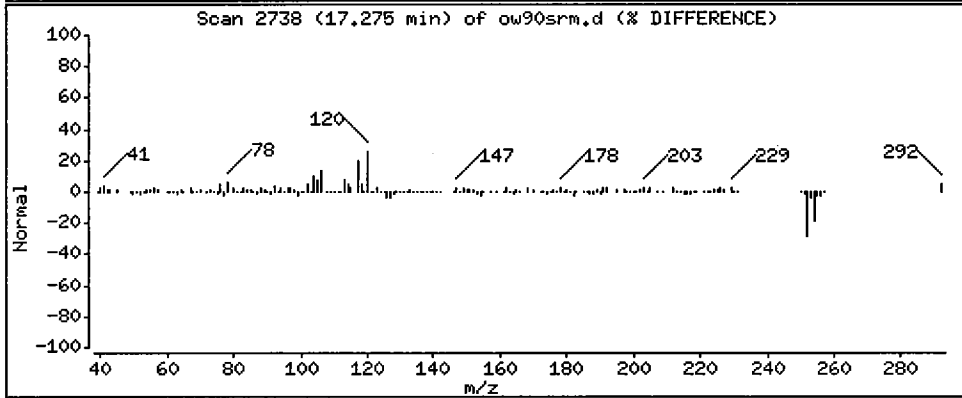
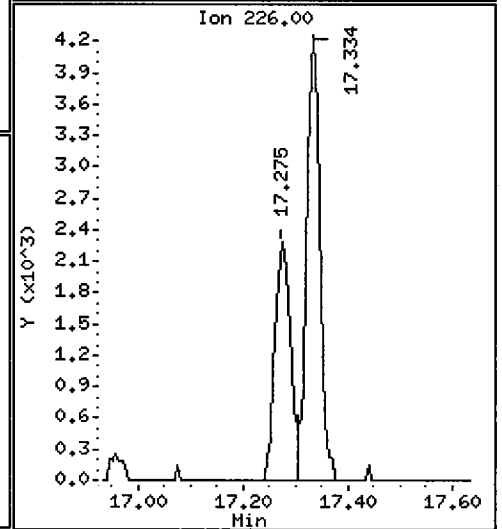
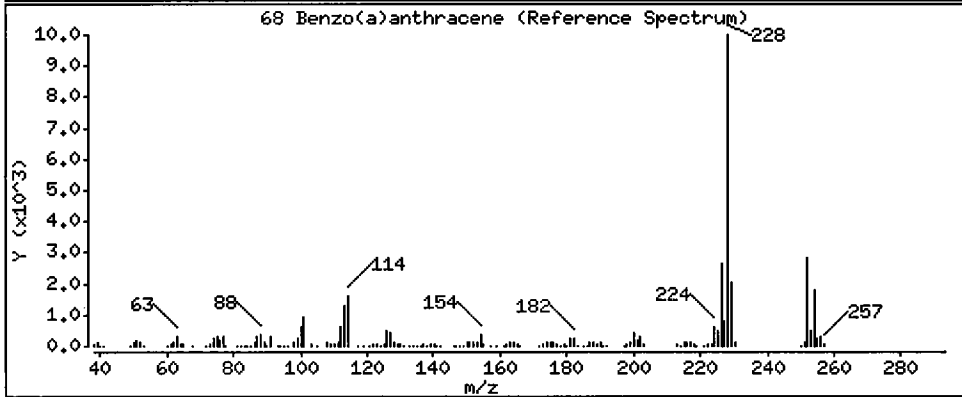
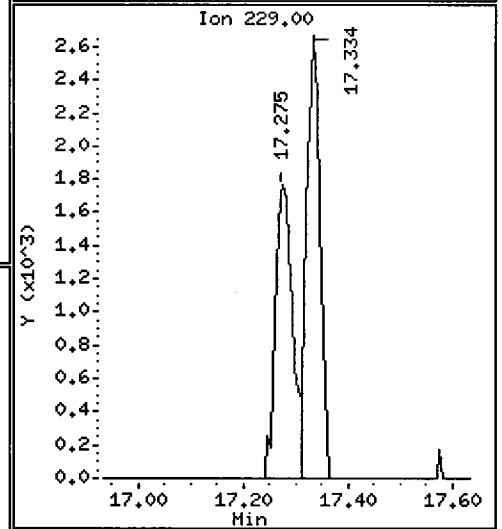
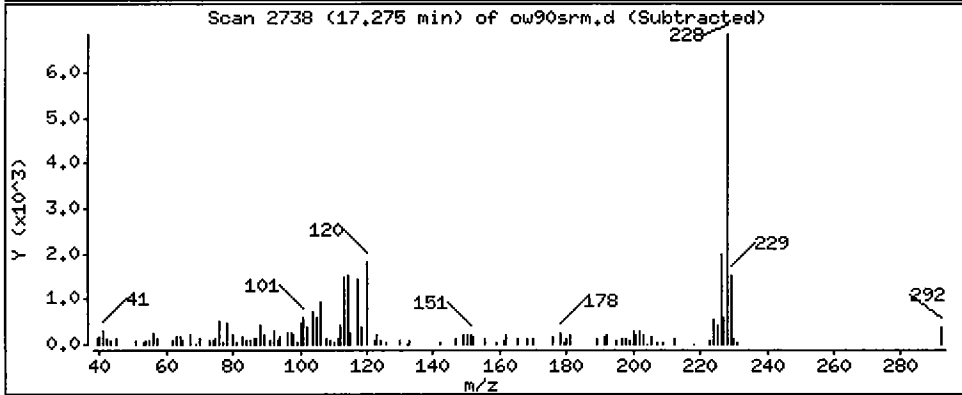
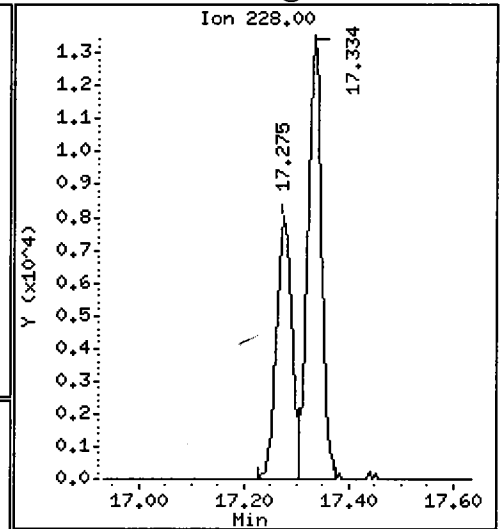
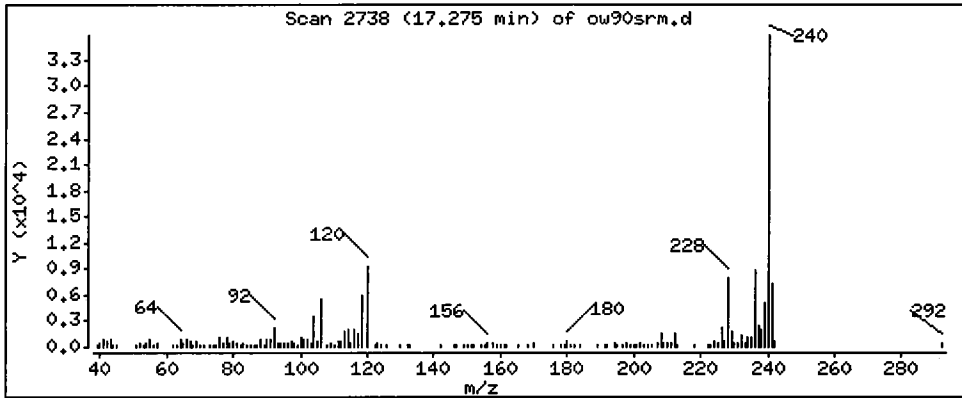
Column phase: ZB-5

Column diameter: 0.32

68 Benzo(a)anthracene

Concentration: 24.43 ug/kg

OK



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

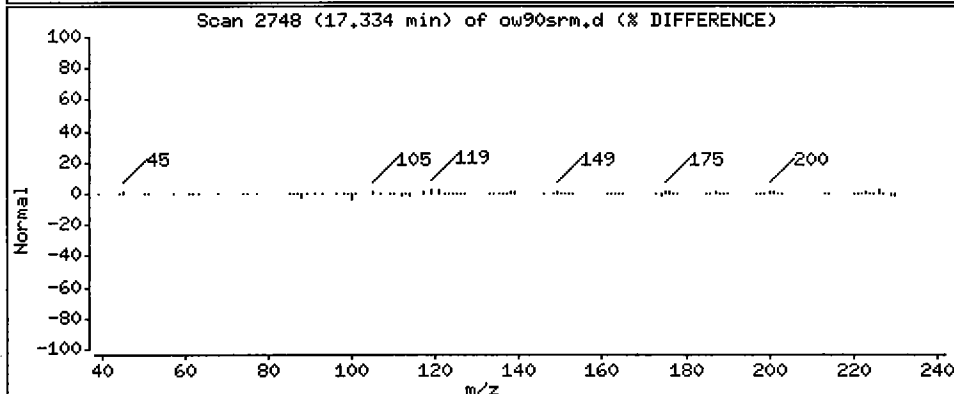
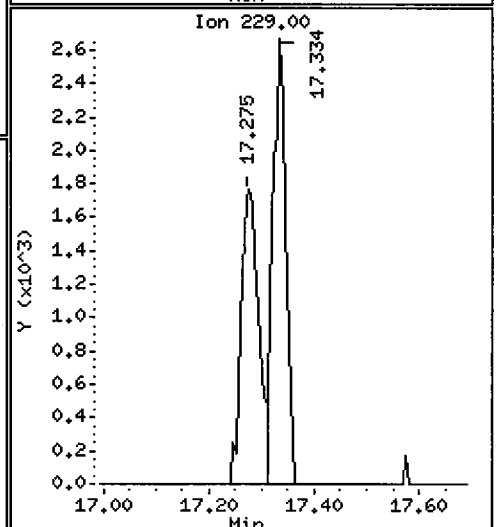
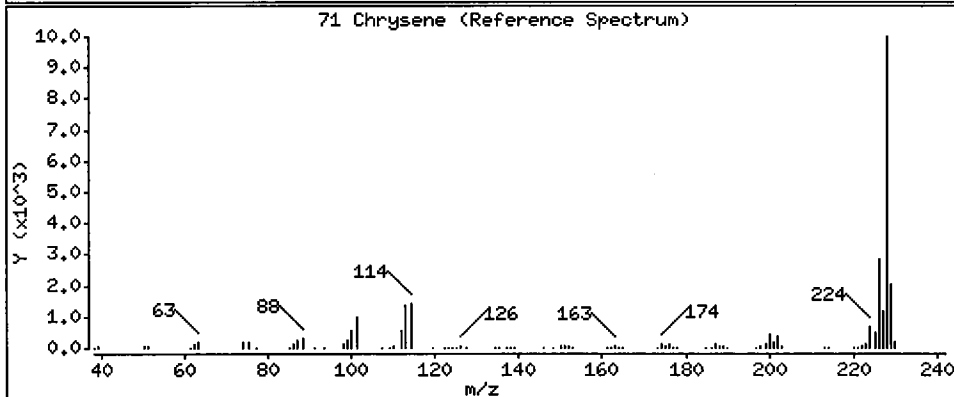
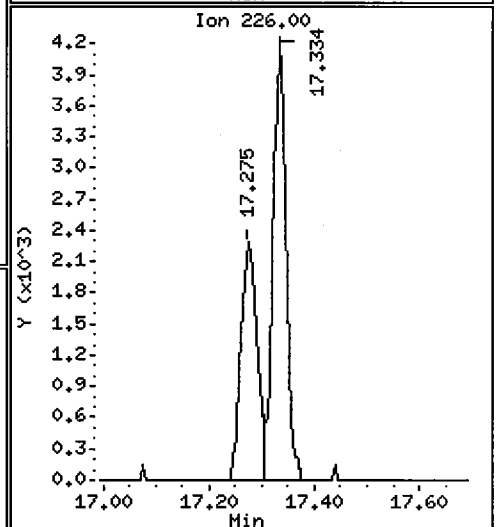
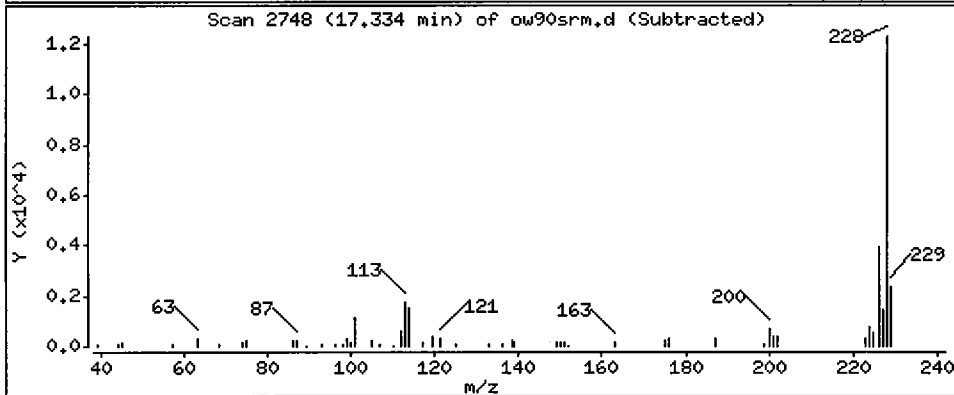
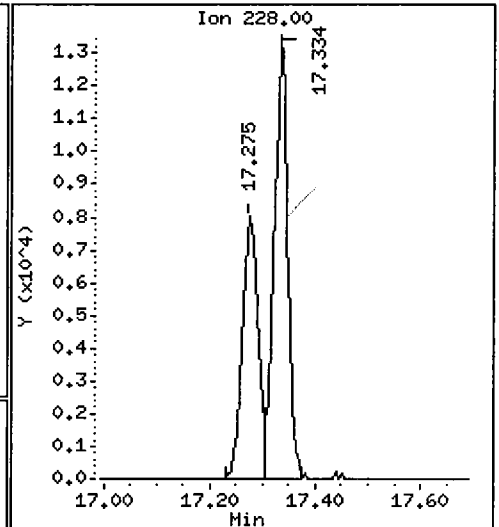
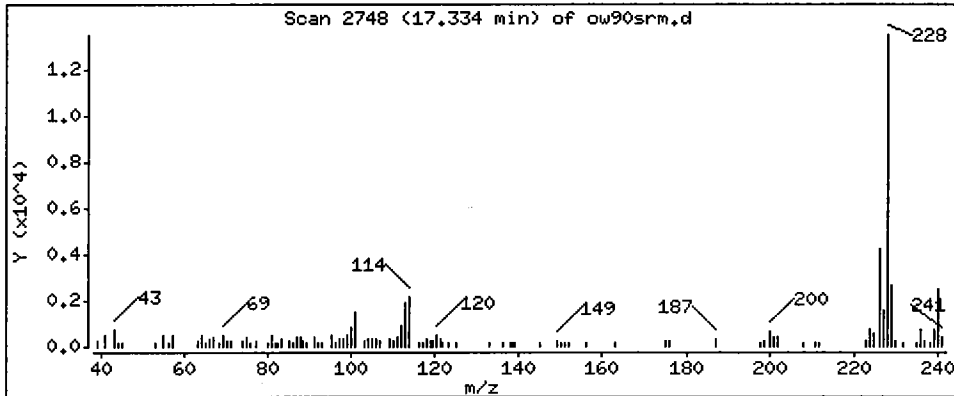
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

71 Chrysene

Concentration: 36.18 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

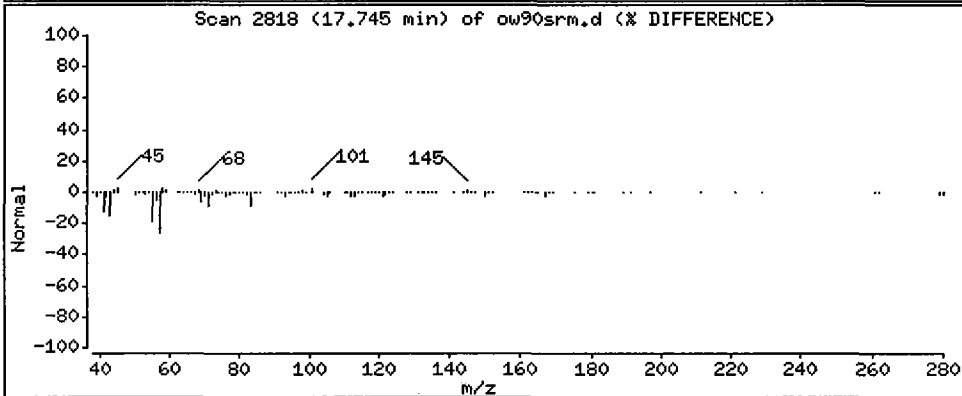
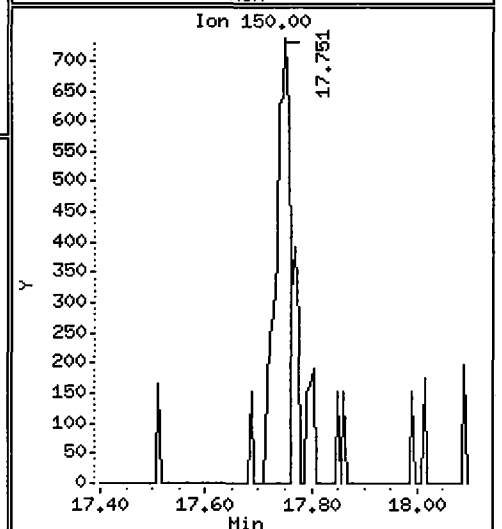
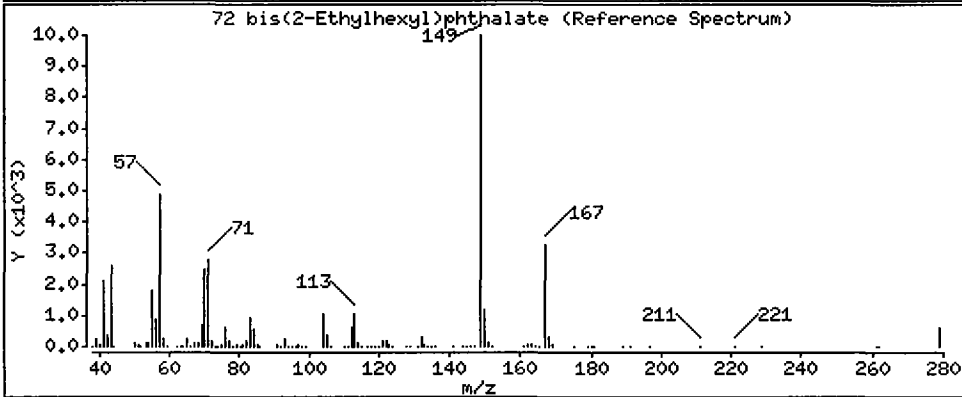
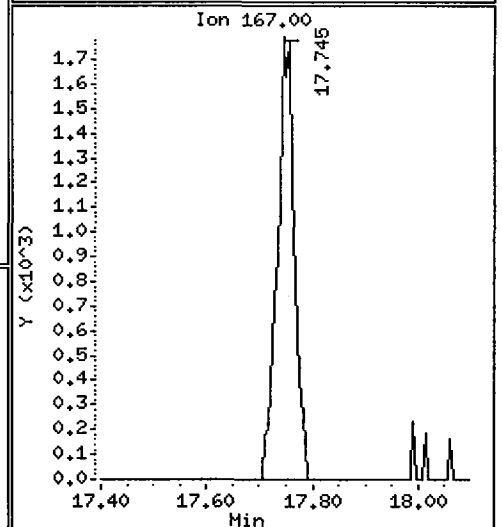
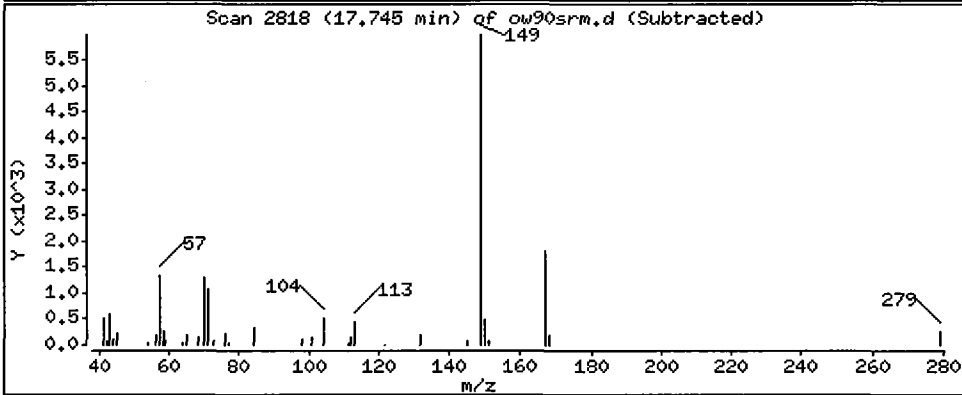
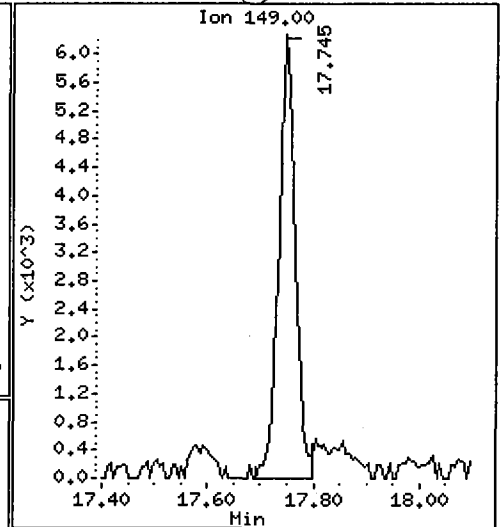
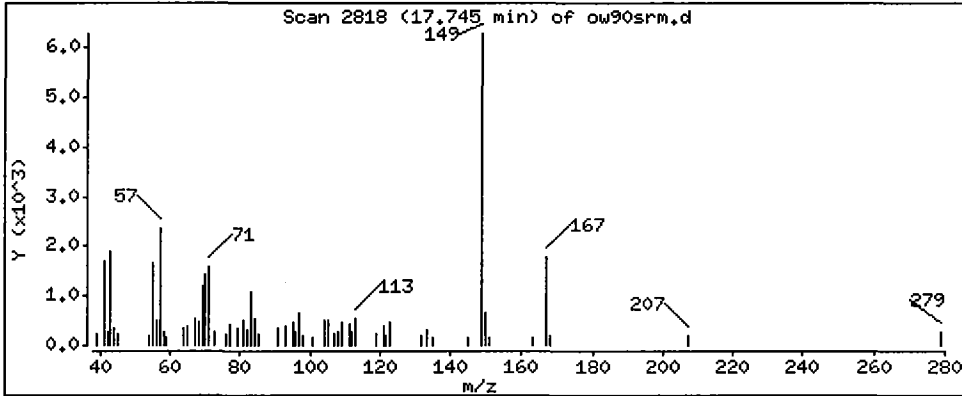
Column phase: ZB-5

Column diameter: 0.32

72 bis(2-Ethylhexyl)phthalate

Concentration: 26.68 ug/kg

OK



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

Operator: LJR/VTS

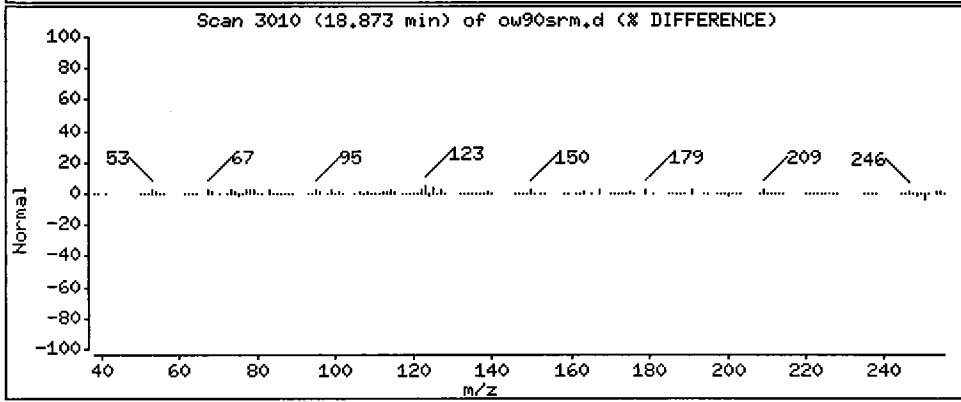
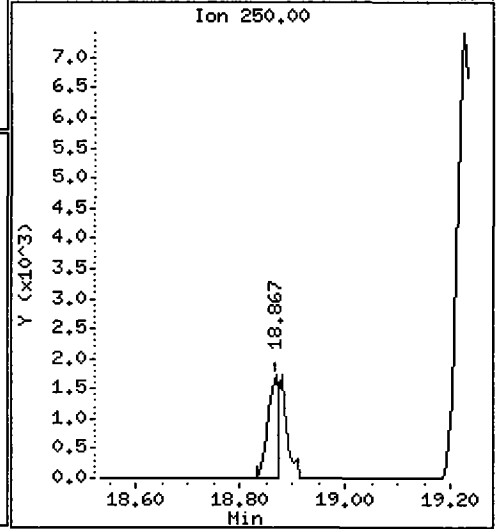
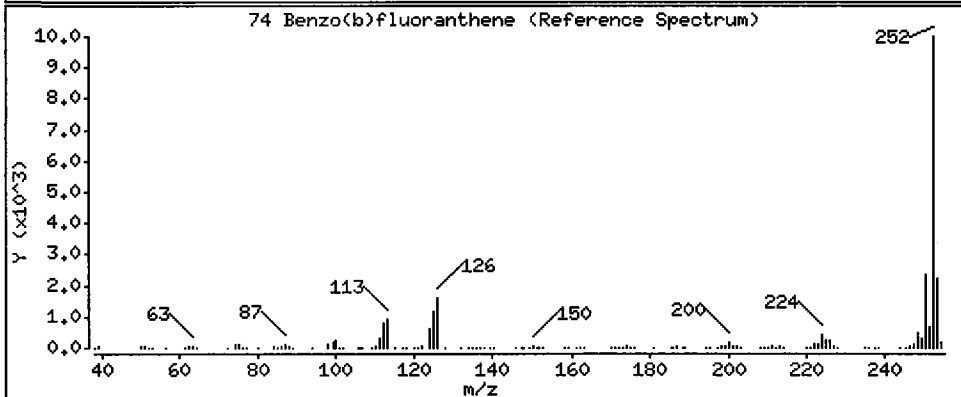
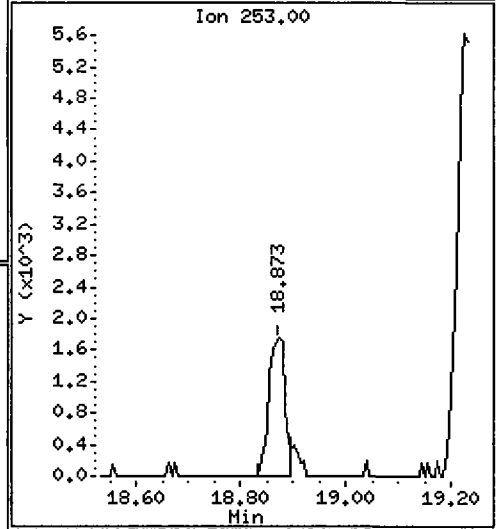
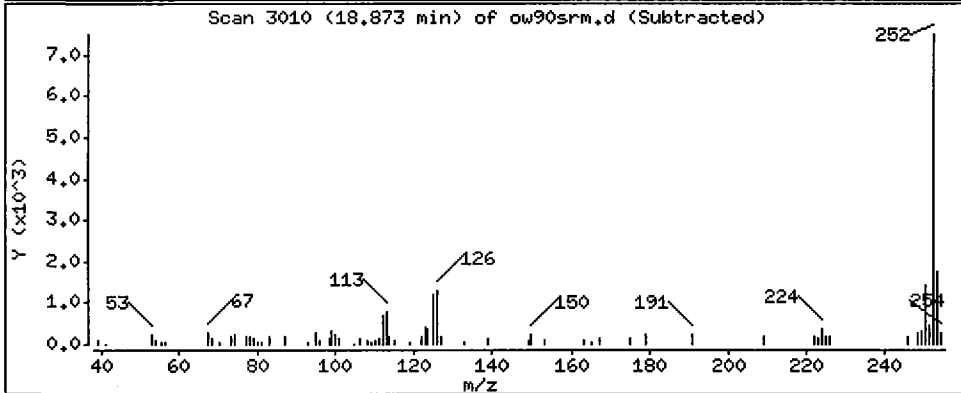
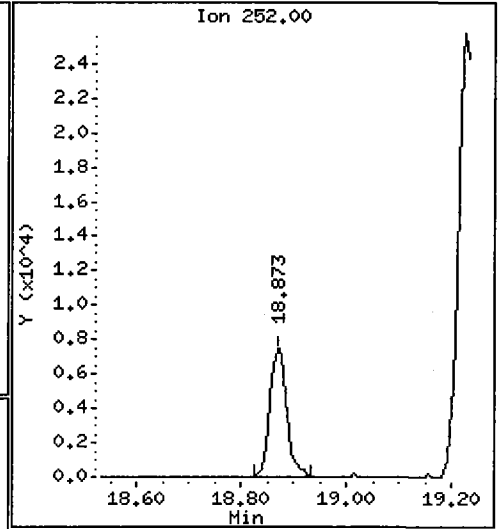
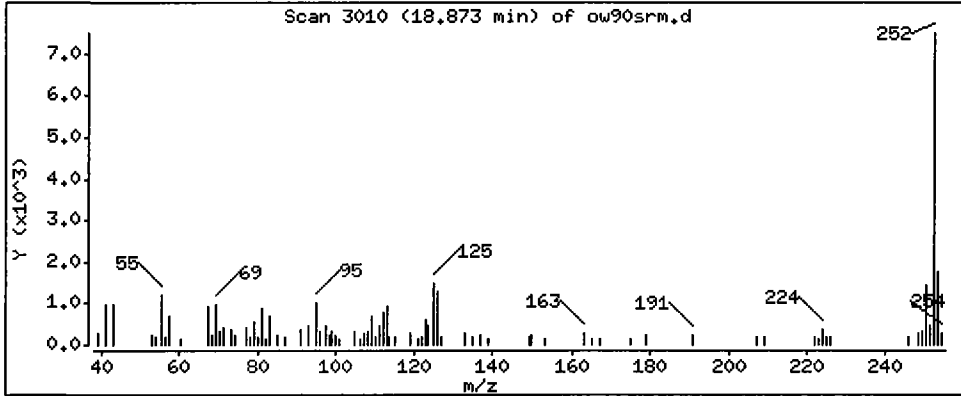
Column phase: ZB-5

Column diameter: 0.32

OK

74 Benzo(b)fluoranthene

Concentration: 21.96 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

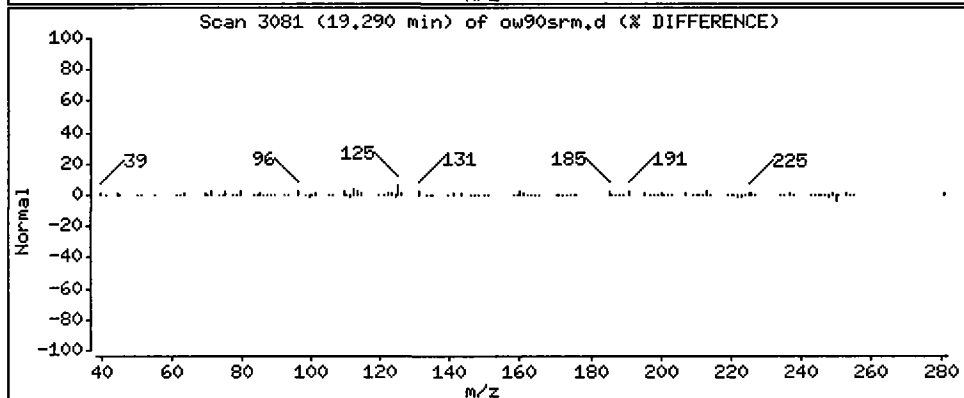
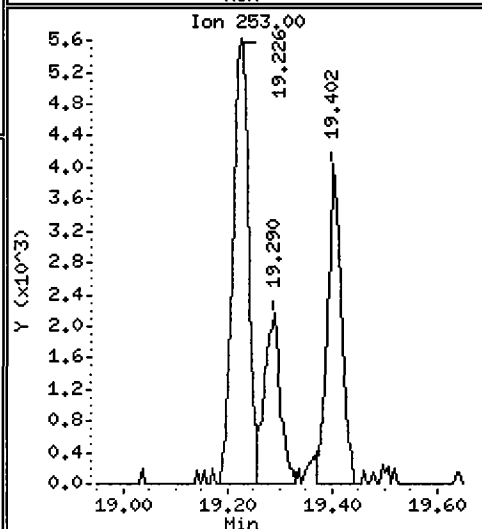
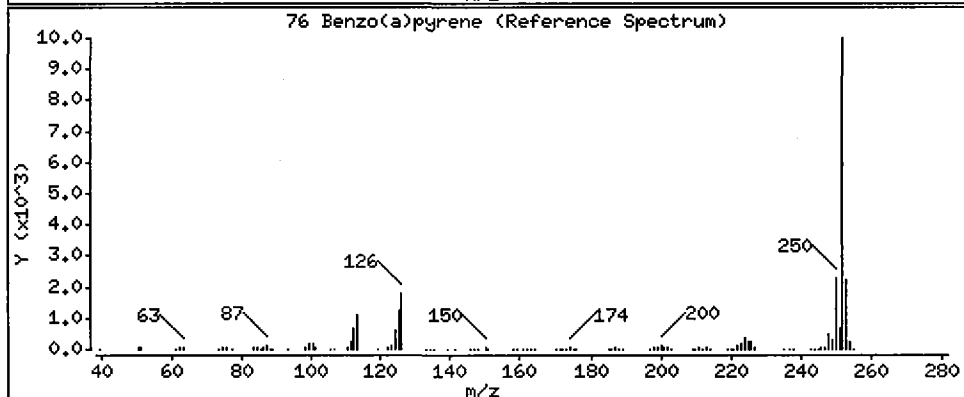
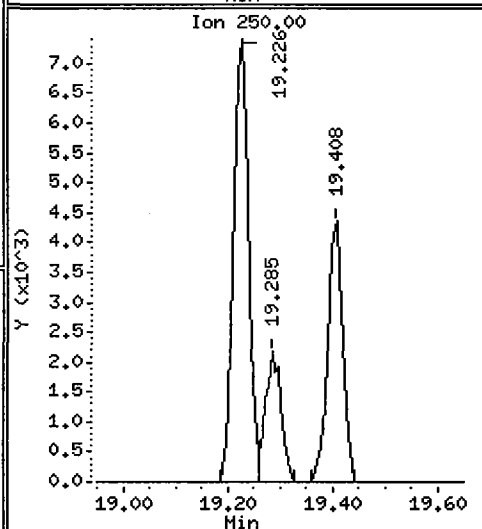
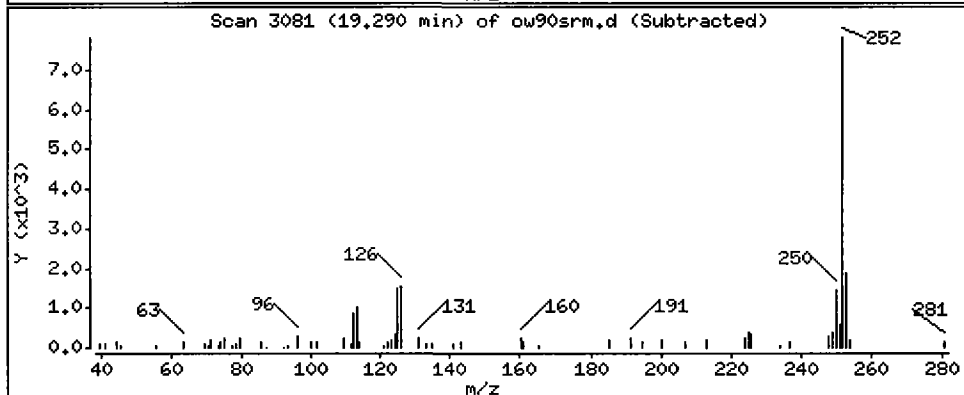
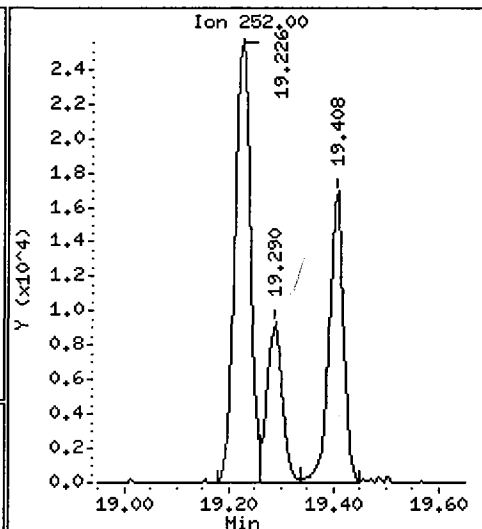
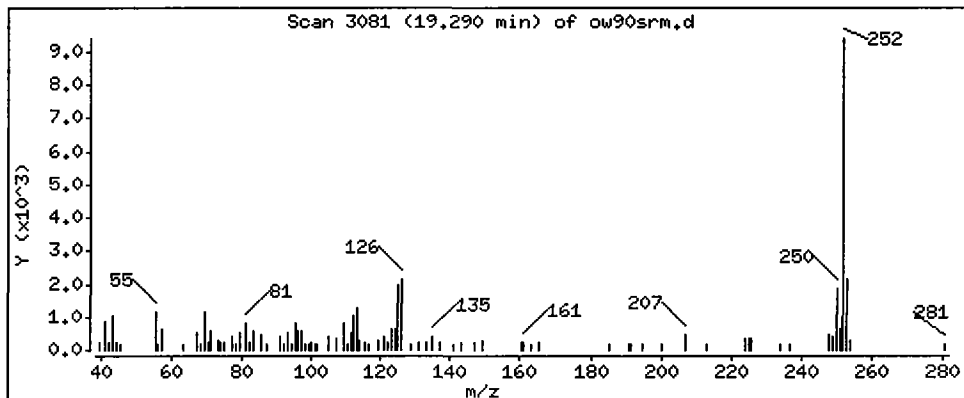
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

76 Benzo(a)pyrene

Concentration: 27.86 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

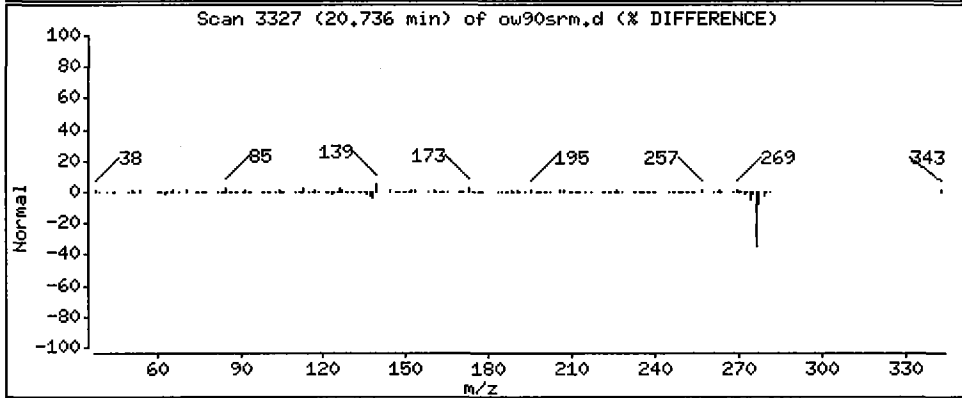
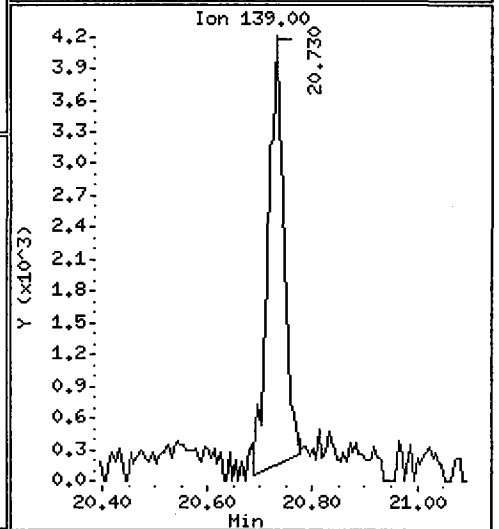
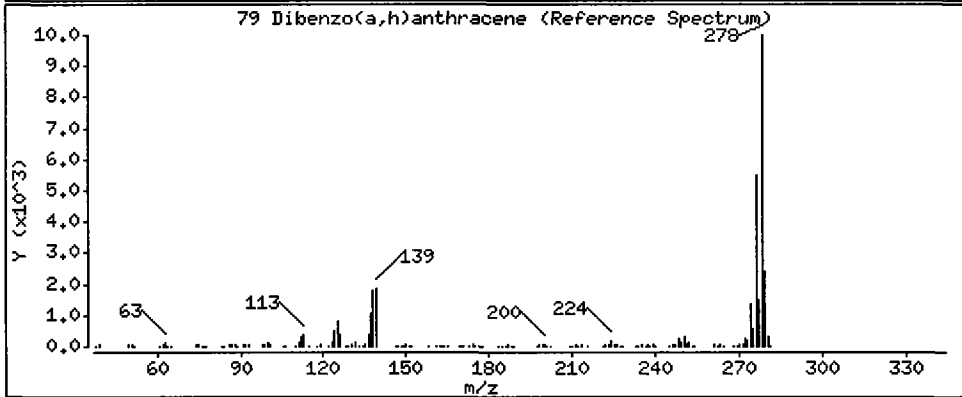
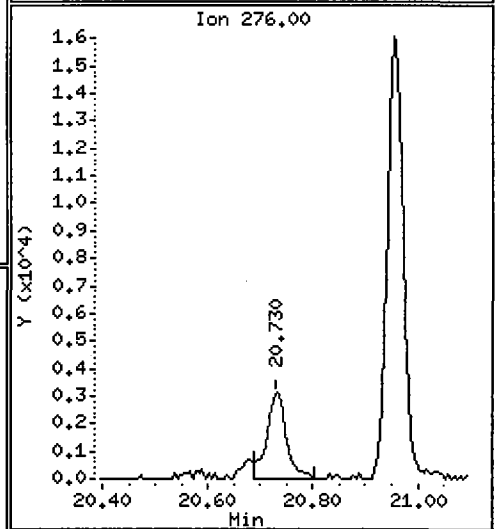
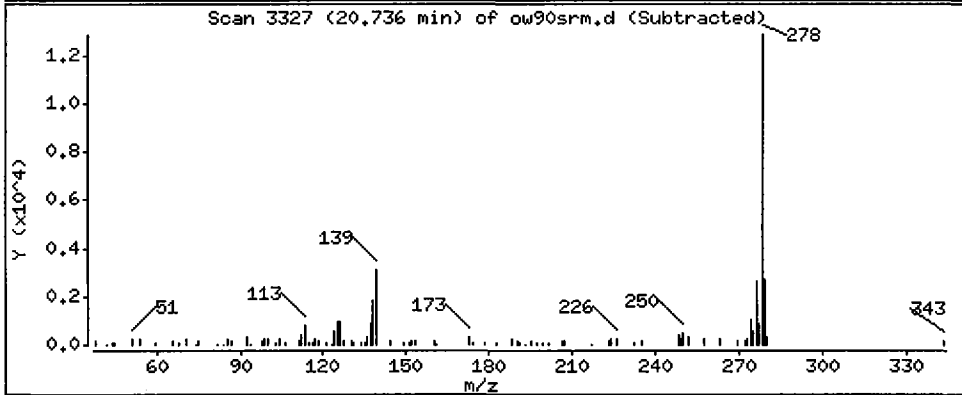
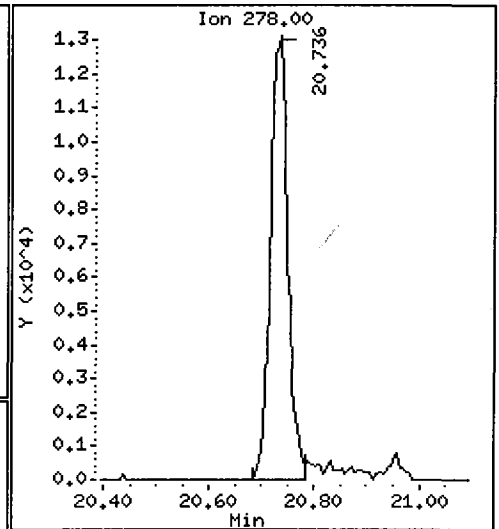
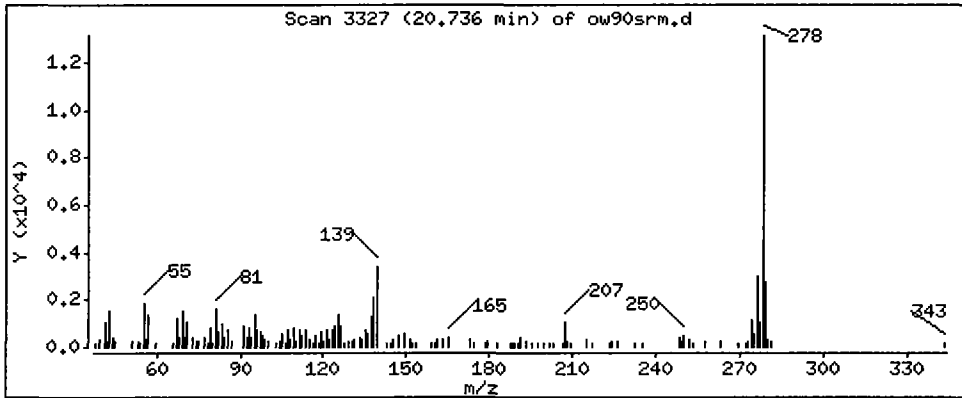
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

79 Dibenzo(a,h)anthracene

Concentration: 42.53 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

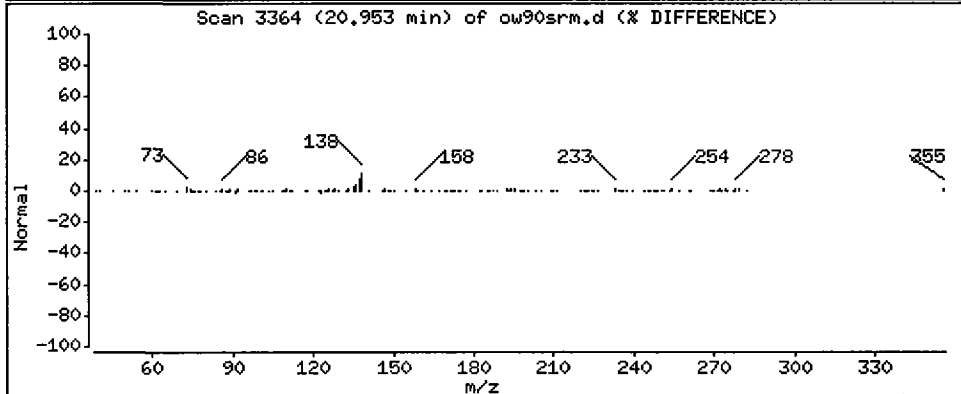
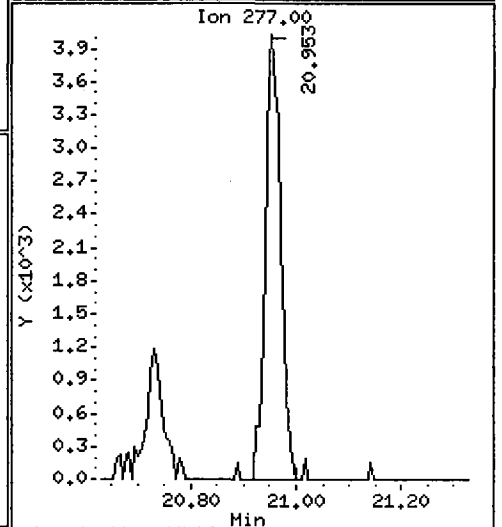
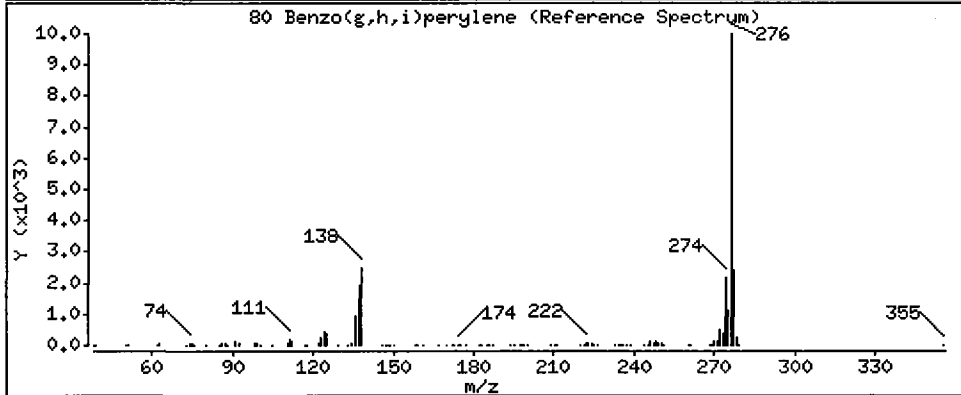
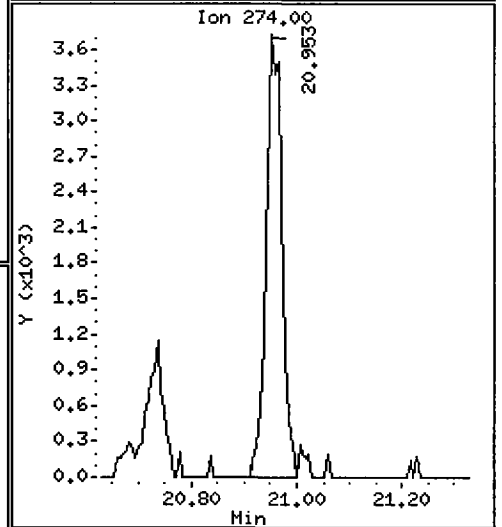
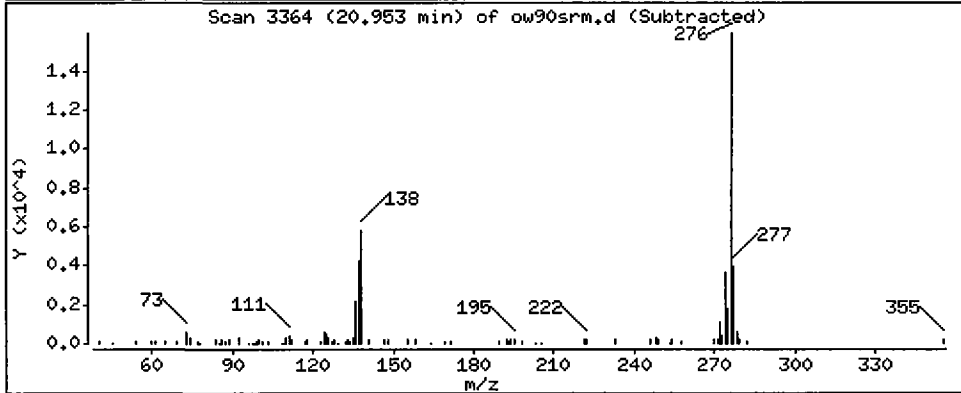
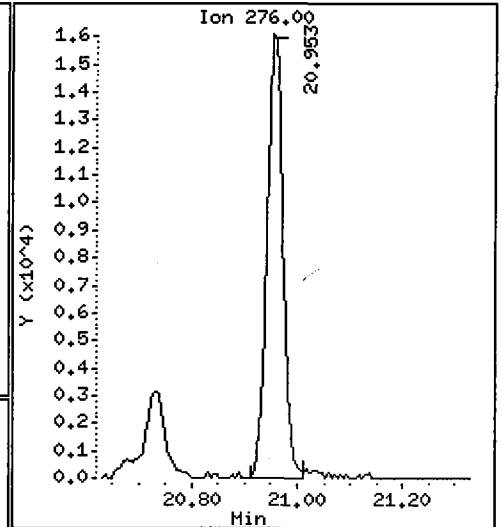
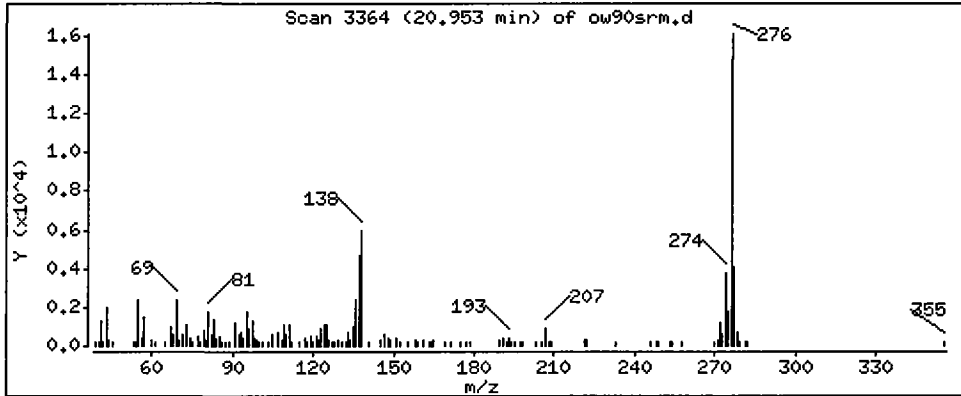
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

80 Benzo(g,h,i)perylene

Concentration: 44.59 ug/kg



Date : 06-MAY-2009 17:40

Client ID: SQ-1

Instrument: nt4.i

Sample Info: OW90SRM1

Volume Injected (uL): 1.0

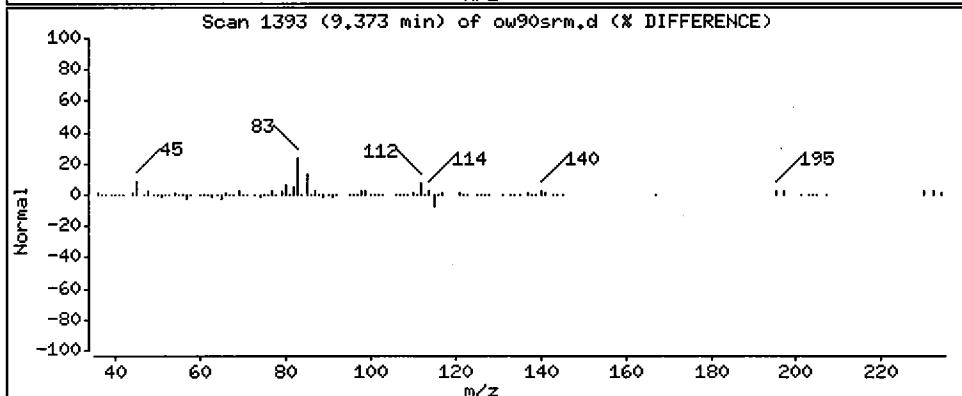
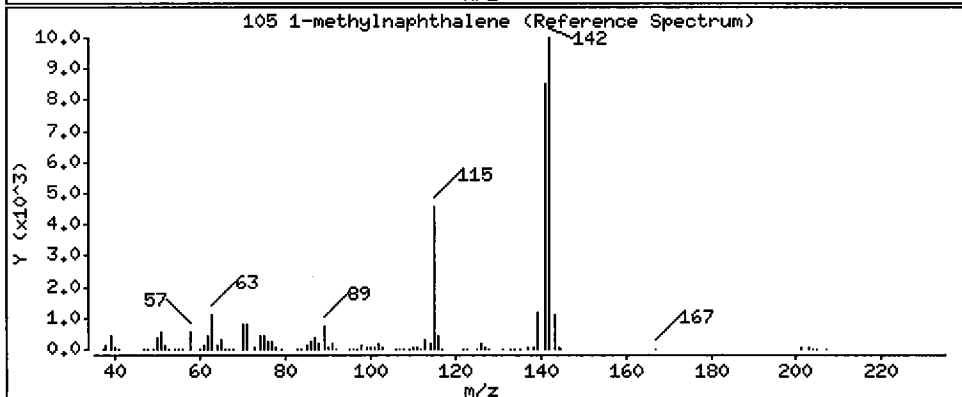
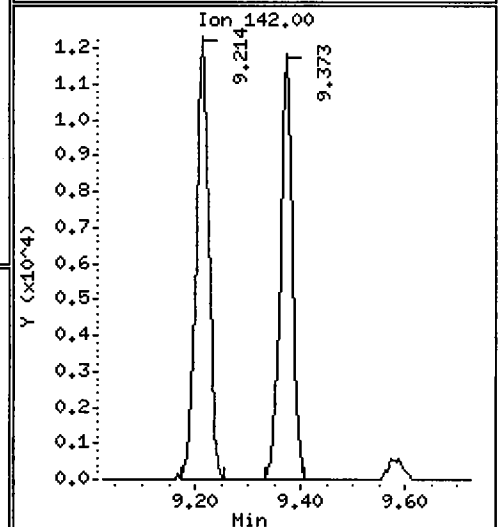
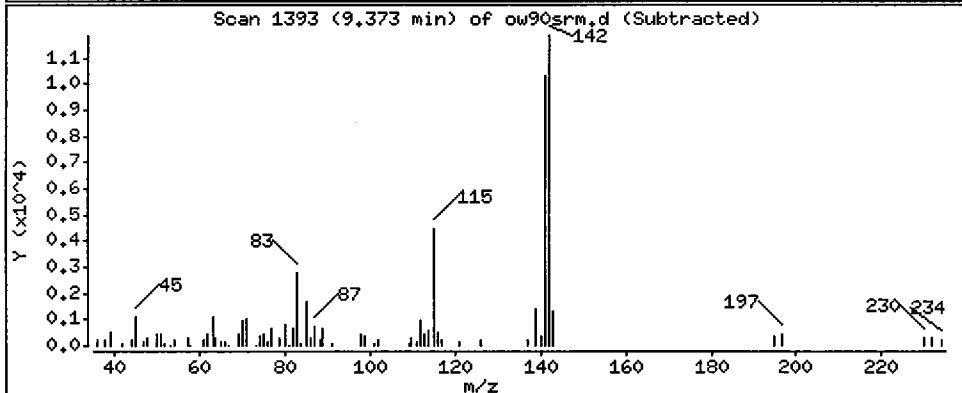
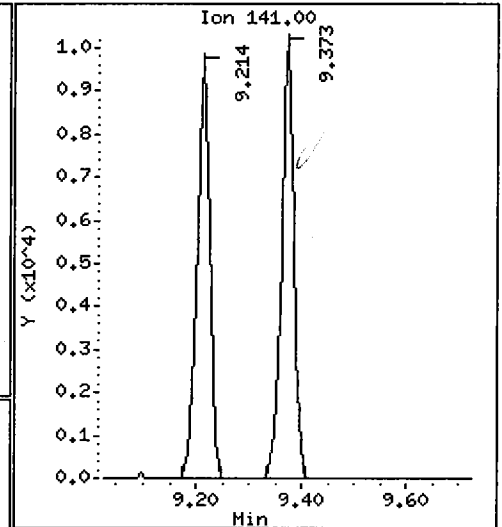
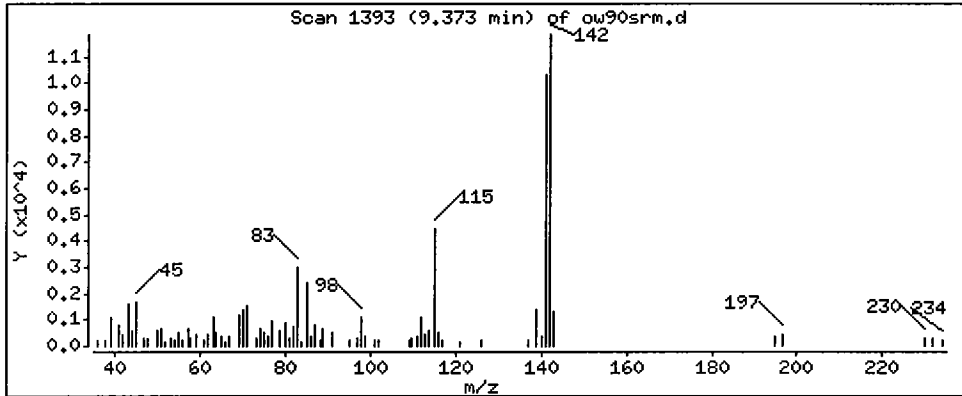
Operator: LJR/VTS

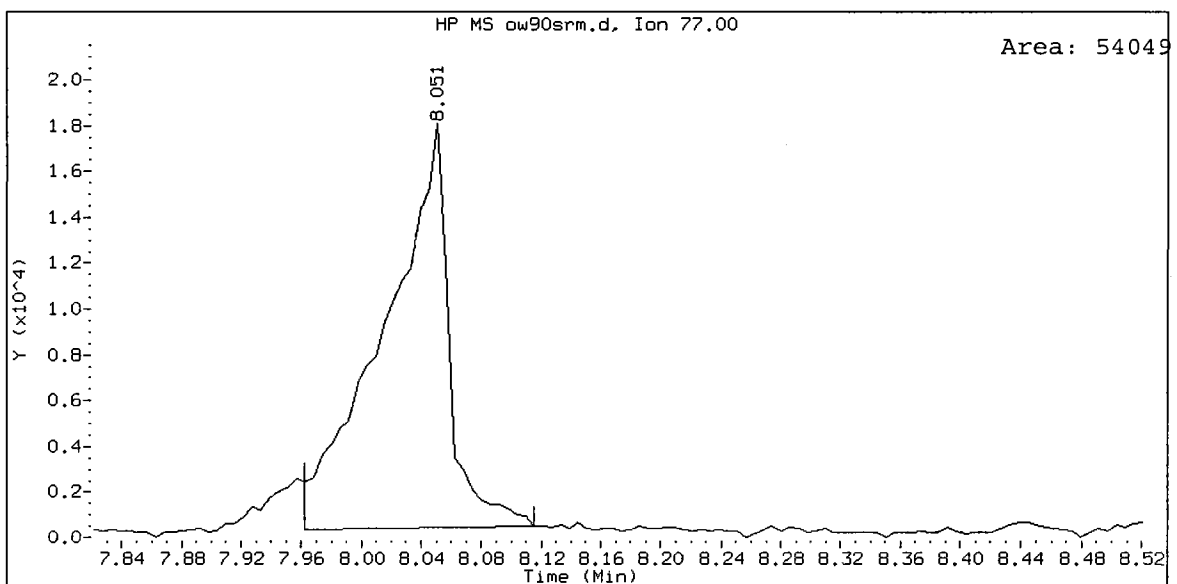
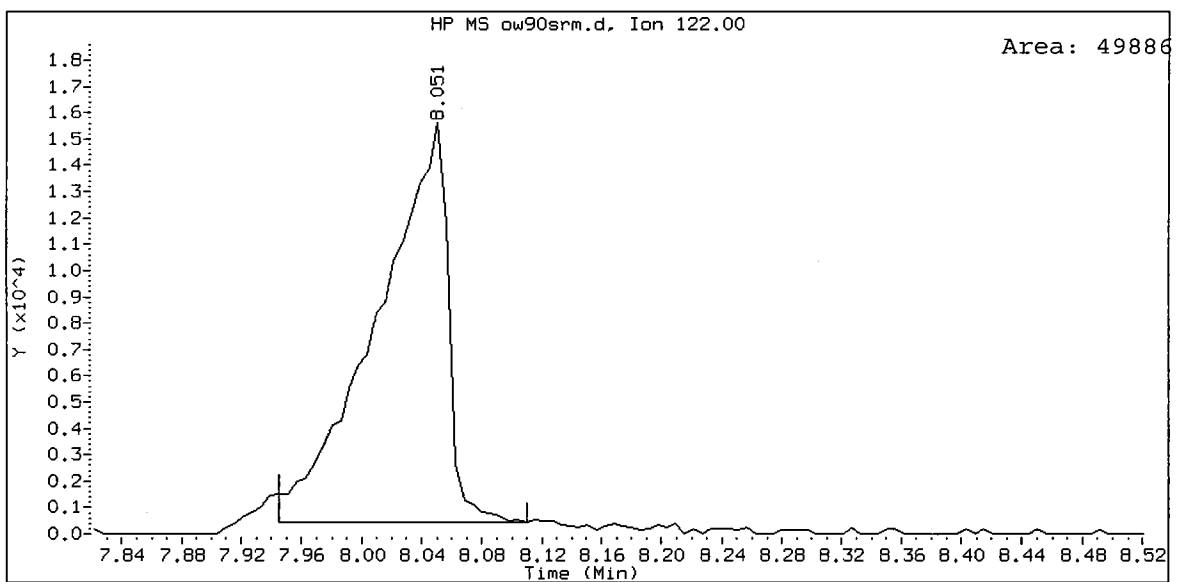
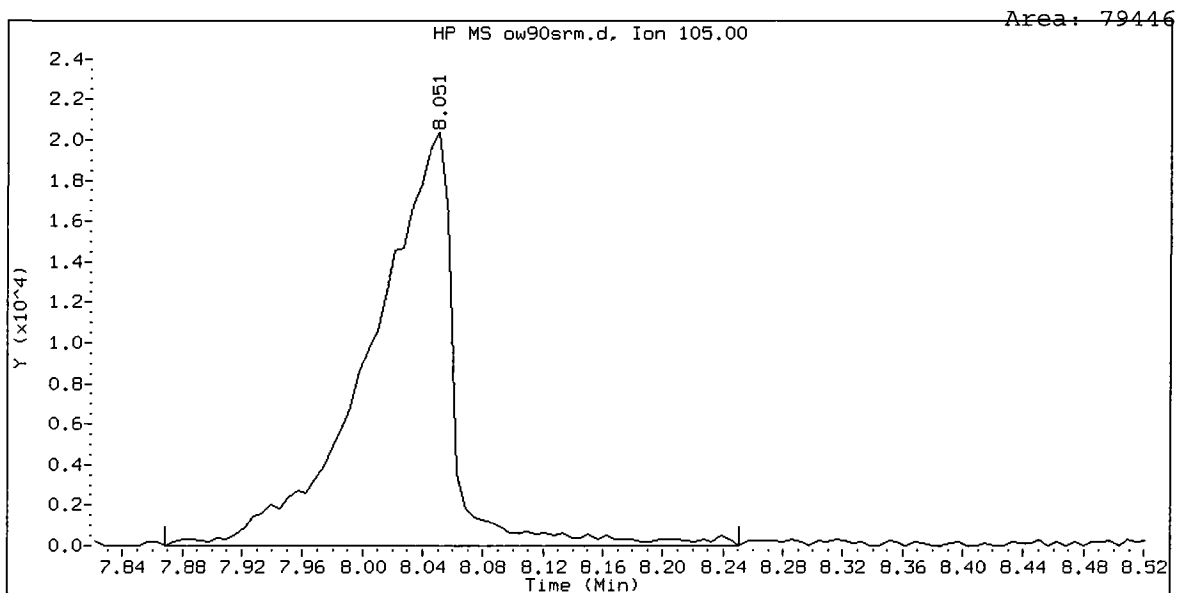
Column phase: ZB-5

Column diameter: 0.32

105 1-methylnaphthalene

Concentration: 29.16 ug/kg





Semivolatile Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.



Preparation Test BAN # 6

ARI Job No(s) OW9φ

PSDDA
Batch set up by: JD

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	KD	Turbo Vap 1 2 3	GPC Prep Filter (1:1)	GPC (Optional) GPC (1:1) 1 or 2 Y/N	Post GPC KD	Turbo Vap 1 2 3	Final Effective Volume	Volume to Lab	Comments
	MBS <u>OW9φ</u>	Date <u>5/11/09</u>	25g	↓	↓	↓	↓	↓	↓	0.5mL	0.5mL	(Use 5g Pre-Deactivated Sodium Sulfate for Blanks)
	SBS ↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
	SBS Dup.	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1	<u>OW9φ SQ-1</u>	<u>Verma</u>	3φ.22		<u>5/14/09 #1</u>	<u>5/14/09 #2</u>	<u>5/14/09</u>					
	A	↓	62.16		↓	↓	↓					
	B	↓	63.12		↓	↓	↓					
	C	↓	57.51		↓	↓	↓					
	D	↓	51.45		↓	↓	↓					
	E	↓	56.85		↓	↓	↓					
	F	↓	39.48		↓	↓	↓					
	Fms	↓	39.55		<u>#2</u>	<u>1:1</u>	<u>#1</u>					
	Fmsd	↓	39.32	↓	<u>5/14/09</u>	<u>5/14/09</u>	<u>5/14/09</u>	↓	↓	↓	↓	

Analyst/Date: NZ 5/01/09 (weight) 5/11/09

CSZ
5/5/09 →

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	<u>A2</u>	<u>125μL</u>	<u>2/18/1φ</u>	<u>NZ</u>	<u>WC</u>
Full List Spike	<u>7</u>	<u>125μL</u>	<u>2/11/1φ</u>	<u>NZ</u>	<u>WC</u>
Base Spike	<u>12</u>	<u>125μL</u>	<u>2/5/1φ</u>	<u>NZ</u>	<u>WC</u>
Acid Spike	<u>10</u>	<u>125μL</u>	<u>1φ/21/φ9</u>	<u>NZ</u>	<u>WC</u>
Extraction Time:	<u>11:3φ</u>				

SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into 600mL or 400mL beakers (Dry using sodium sulfate-25g Max).
2. Use 5g Pre-Deactivated Sodium Sulfate for Blanks. 3. Sonicate 2X with 1:1 DCM/Acetone + 1X DCM only.
4. Collect into 500mL flask + Lg funnel with glasswool pre-rinsed with 0.05% HCL in Acetone X 1, followed by 2X DCM Rinse. NO SODIUM SULFATE. 5. KD (Normal Drying Column)- (Blanks=only 5g Sodium Sulfate)-Pre-rinsed with 0.05% HCL in Acetone X 1, followed by 2X DCM Rinse) at 85-90°. 6. TurboVap. 7. GPC Optional (1:1) 8. KD (if GPC=No drying column) on 80°. 9. TurboVap. 10. Vial.

A. Need Total Solids Y (N) B. Archive/Freeze Y (N)

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 4/18/09 Analysis: BANS Analyst: LTK

GC Program: ABN Column No: 162505 Column Type: ZB-S MS

Instrument Tune (U or .CT.): 090408 EM Voltage: 1247

Calibration File: 0250408 Curve Date: 4/18/09

IS/SS	Ical/Ccal	LCS/ICV
1564-1	1550-1,2	1507-1
	1551-1	1508-1
	1552-1	1509-1
	1553-1	1510-1

Time	Filename	LabID	ClientID	DF
1 1700	0250408.d	ABN 25		1 8.35 172459 10.40 608124 13.26 305977 15.65 428646 19.98 348476 22.15 426588 21.10 674761
2 1734	0800408.d	ABN 80		1 8.36 178915 10.41 633883 13.27 307866 15.66 488770 20.00 393547 22.16 503650 21.11 708064
3 1809	0010408.d	ABN 1		1 8.35 210962 10.39 738318 13.26 369306 15.65 513636 19.98 424163 22.15 486513 21.09 804169
4 1843	0400408.d	ABN 40		1 8.35 188358 10.40 664374 13.27 331355 15.65 480572 19.99 392842 22.16 479636 21.09 722188
5 1918	0050408.d	ABN 5		1 8.35 201288 10.39 698234 13.26 355277 15.65 494013 19.98 402728 22.15 470288 21.09 759665
6 1952	0100408.d	ABN 10		1 8.35 202279 10.39 700068 13.26 352242 15.65 489124 19.98 411914 22.15 489487 21.09 785424
7 2027	1cv0408.d	ABN ICV		1 8.35 205430 10.40 729446 13.26 376670 15.65 538990 19.99 420663 22.15 503381 21.09 787964

LTK
4/17/09

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet body
g seal.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): 0250408

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 5/16/09 Analysis: BANS Analyst: LJK

GC Program: ABN Column No: 162505 Column Type: ZB-S MS1

Instrument Tune (U or .CT.): 090430 EM Voltage: 1318

Calibration File: cc0506 Curve Date: 4/8/09

IS/SS	Ical/Ccal	LCS/ICV
<u>154-2</u>	<u>1550-1,2</u>	
	<u>1551-1</u>	
	<u>1552-1</u>	
	<u>1553-1</u>	

Time	Filename	LabID	ClientId	DF
1	1454	cc0506.d	ABN 25	1 5.98 168850 8.07 548444 10.86 273980 13.14 388590 17.31 259142 19.38 296622 18.67 458352
2	1527	ow96mb.d	OW96MBS1	OW96MBS1 1 5.96 156189 8.07 538305 10.86 270908 13.14 376444 17.30 273512 18.67 489978 19.37 278174
3	1600	ow96sb.d	OW96LCSS1	OW96LCSS1 1 5.97 164629 8.07 542430 10.87 267916 13.14 370946 17.30 268650 18.67 475730 19.38 294253
4	1634	ow90mb.d	OW90MBS1	OW90MBS1 1 5.97 151504 8.07 520206 10.86 264836 13.14 378654 17.29 289743 18.66 515291 19.37 291436
5	1707	ow90sb.d	OW90LCSS1	OW90LCSS1 1 5.97 160972 8.07 537102 10.87 271080 13.14 372700 17.30 268677 18.66 476343 19.38 307436
6	1740	ow90brm.d	OW90SRM1	SQ-1 1 5.97 159770 8.07 534947 10.87 259219 13.14 344118 17.30 268952 18.67 455160 19.38 298781
7	1813	ow90a.d	OW90A	10654007 1 5.97 155415 8.07 523435 10.86 254243 13.14 347046 17.30 267748 18.66 495026 19.38 291066
8	1846	ow90b.d	OW90B	10654008 1 5.98 156014 8.07 519289 10.86 255409 13.14 346507 17.30 283901 18.66 518435 19.37 314948
9	1920	ow90c.d	OW90C	10654009 1 5.97 149954 8.06 513855 10.86 251835 13.14 356737 17.30 280498 18.66 503798 19.37 309342
10	1953	ow90d.d	OW90D	10654011 1 5.97 138642 8.07 471676 10.86 232482 13.14 323919 17.30 245534 18.66 446062 19.37 261074
11	2026	ow90e.d	OW90E	10654018 1 5.97 151463 8.07 501792 10.86 244281 13.14 342914 17.30 331078 18.66 612584 19.38 354297
12	2059	ow90f.d	OW90F	10654028 1 5.97 154078 8.06 507782 10.86 246068 13.14 343322 17.31 309768 18.66 551899 19.38 338013
13	2133	ow90fms.d	OW90FMS	10654028 MS 1 5.97 150691 8.07 494696 10.86 247070 13.14 347713 17.31 325780 18.67 570421 19.38 348466
14	2206	ow90fmsd.d	OW90FMSD	10654028 MSD 1 5.97 142757 8.07 465117 10.86 227089 13.14 328508 17.31 324037 18.67 565483 19.38 338353
15	2239	ow96a.d	OW96A	Thatcher 1 5.96 134562 8.06 450914 10.86 229668 13.13 356174 17.29 326502 18.66 575847 19.37 318967
16	2312	ow96adup.d	OW96ADUP	Thatcher DUP 1 5.97 157834 8.06 522221 10.86 252527 13.14 361434 17.30 334635 18.66 556061 19.38 351898
17	2345	ow96ams.d	OW96AMS	Thatcher MS 1 5.97 152372 8.07 505416 10.87 250682 13.13 353868 17.30 302133 18.67 491819 19.38 324436

LJK
5/17/09

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal.

Performance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc0506
 must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

PCB Analysis
QC Summary Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: OW90-Geomatrix
Project: Former Custom Plywood Site
10654.001

<u>Client ID</u>	<u>DCBP % REC</u>	<u>DCBP LCL-UCL</u>	<u>TCMX % REC</u>	<u>TCMX LCL-UCL</u>	<u>TOT OUT</u>
10654007	76.8%	43-148	75.5%	48-123	0
10654008	76.0%	43-148	74.0%	48-123	0
10654009	71.0%	43-148	69.8%	48-123	0
10654011	77.8%	43-148	76.2%	48-123	0
MB-050409	69.0%	48-119	74.8%	47-110	0
LCS-050409	75.0%	48-119	79.2%	47-110	0
SRM SQ-1	75.8%	43-148	91.8%	48-123	0
10654018	73.0%	43-148	74.2%	48-123	0
10654018 MS	76.5%	43-148	80.2%	48-123	0
10654018 MSD	78.5%	43-148	77.8%	48-123	0
10654028	75.0%	43-148	75.2%	48-123	0

PSDDA Control Limits

Prep Method: SW3550B

Log Number Range: 09-10068 to 09-10073

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: 10654018

MS/MSD

Lab Sample ID: OW90E

LIMS ID: 09-10072

Matrix: Sediment

Data Release Authorized: *B*

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted MS/MSD: 05/04/09

Sample Amount MS: 25.6 g-dry-wt

MSD: 25.5 g-dry-wt

Date Analyzed MS: 05/07/09 02:34

Final Extract Volume MS: 5.0 mL

MSD: 05/07/09 02:51

MSD: 5.0 mL

Instrument/Analyst MS: ECD5/YZ

Dilution Factor MS: 1.00

MSD: ECD5/YZ

MSD: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: Yes

Percent Moisture: 54.9%

Acid Cleanup: Yes

Florisil Cleanup: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 19.8 U	74.4	97.8	76.1%	78.1	97.9	79.8%	4.9%
Aroclor 1260	< 19.8 U	258	97.8	264%	103	97.9	105%	85.9%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1


Sample ID: LCS-050409

LAB CONTROL

Lab Sample ID: LCS-050409

LIMS ID: 09-10072

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: NA

Date Received: NA

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 00:34

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	82.8	100	82.8%
Aroclor 1260	92.6	100	92.6%

PCB Surrogate Recovery

Decachlorobiphenyl	75.0%
Tetrachlorometaxylene	79.2%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

4
PCB METHOD BLANK SUMMARY

BLANK NO.

OW90MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOO

Lab Sample ID: OW90MBS1

Lab File ID: 0506B062

Date Extracted: 05/04/09

Matrix: SOLID

Date Analyzed: 05/07/09

Instrument ID: ECD5

Time Analyzed: 0017

GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	OW90LCSS1	OW90LCSS1	05/07/09
02	SQ-1	OW90SRM1	05/07/09
03	10654007	OW90A	05/07/09
04	10654008	OW90B	05/07/09
05	10654009	OW90C	05/07/09
06	10654011	OW90D	05/07/09
07	10654018	OW90E	05/07/09
08	10654018 MS	OW90EMS	05/07/09
09	10654018 MSD	OW90EMSD	05/07/09
10	10654028	OW90F	05/07/09

ALL RUNS ARE DUAL COLUMN

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 05/06/09

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

					IS1 AREA	RT	IS2 AREA	RT
=====					=====	=====	=====	=====
				ICAL MIDPT	26636297	1.961	6745626	11.375
				UPPER LIMIT	53272594	2.061	13491252	11.475
				LOWER LIMIT	13318148	1.861	3372813	11.275
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT	
=====	=====	=====	=====	=====	=====	=====	=====	
01	AR1660	05/06/09	0000	26463812	1.958	6334805	11.375	
02	ZZZZZ	05/06/09	1434	25196780	1.960	6438678	11.375	
03	0.25 PPM AR1	05/06/09	1451	26636297	1.961	6745626	11.375	
04	0.02 PPM AR1	05/06/09	1508	25184803	1.958	6507462	11.376	
05	1 PPM AR1660	05/06/09	1525	26621047	1.958	6871049	11.374	
06	0.1 PPM AR16	05/06/09	1542	26940317	1.962	6993060	11.374	
07	0.5 PPM AR16	05/06/09	1559	26975710	1.958	7029395	11.374	
08	ZZZZZ	05/06/09	1617	26668042	1.964	6899658	11.376	
09	AR1242	05/06/09	1634	25830944	1.962	6700013	11.376	
10	AR1248	05/06/09	1651	25986111	1.961	6980507	11.376	
11	AR1254	05/06/09	1708	26112580	1.961	6904827	11.375	
12	AR2162	05/06/09	1725	25776309	1.956	6832299	11.374	
13	AR3268	05/06/09	1742	26132961	1.958	6927049	11.374	
14	AR1242	05/06/09	2343	25896424	1.963	6108222	11.375	
15	OW90MBS1	05/07/09	0017	31694896	1.963	7943454	11.375	
16	OW90LCSS1	05/07/09	0034	31306423	1.962	7945842	11.375	
17	SQ-1	05/07/09	0051	29285541	1.961	7914867	11.374	
18	10654007	05/07/09	0108	28837064	1.962	8182343	11.372	
19	10654008	05/07/09	0125	29661056	1.962	8115434	11.372	
20	10654009	05/07/09	0142	29749351	1.960	8998021	11.372	
21	10654011	05/07/09	0159	29597723	1.960	8119418	11.373	
22	10654018	05/07/09	0216	30430377	1.960	8286500	11.374	
23	10654018 MS	05/07/09	0234	29582255	1.962	8568833	11.372	
24	10654018 MSD	05/07/09	0251	29389465	1.960	8207813	11.373	
25	10654028	05/07/09	0308	28879130	1.963	8446192	11.374	
26	AR1254	05/07/09	0325	26286832	1.960	7155381	11.376	
27	AR1660	05/07/09	0342	26597312	1.964	7168475	11.377	

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 05/06/09

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

				IS1 AREA	RT	IS2 AREA	RT	
=====				=====	=====	=====	=====	
ICAL MIDPT				24954796	3.288	6589208	12.512	
UPPER LIMIT				49909592	3.388	13178416	12.612	
LOWER LIMIT				12477398	3.188	3294604	12.412	
=====				=====	=====	=====	=====	
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT	
=====								
01	AR1660	05/06/09	0000	25327518	3.283	6341607	12.509	
02	ZZZZZ	ZZZZZ	05/06/09	1434	23270331	3.288	6341968	12.510
03	0.25 PPM AR1	05/06/09	1451	24954796	3.288	6589208	12.512	
04	0.02 PPM AR1	05/06/09	1508	23536407	3.287	5936154	12.513	
05	1 PPM AR1660	05/06/09	1525	24644141	3.285	6478316	12.512	
06	0.1 PPM AR16	05/06/09	1542	25039502	3.288	6722542	12.511	
07	0.5 PPM AR16	05/06/09	1559	25522185	3.286	6702754	12.511	
08	ZZZZZ	ZZZZZ	05/06/09	1617	24795304	3.289	6483664	12.512
09	AR1242	05/06/09	1634	24056818	3.291	6164994	12.511	
10	AR1248	05/06/09	1651	24958522	3.288	6466042	12.512	
11	AR1254	05/06/09	1708	24543042	3.287	6623690	12.511	
12	AR2162	05/06/09	1725	23972359	3.286	6475379	12.511	
13	AR3268	05/06/09	1742	24735691	3.284	6239683	12.509	
14	AR1242	05/06/09	2343	24897156	3.288	7128477	12.510	
15	OW90MBS1	OW90MBS1	05/07/09	0017	30476382	3.288	7612133	12.510
16	OW90LCSS1	OW90LCSS1	05/07/09	0034	30368932	3.288	7684869	12.510
17	SQ-1	OW90SRM1	05/07/09	0051	26777578	3.288	7339046	12.510
18	10654007	OW90A	05/07/09	0108	29495653	3.287	7351035	12.509
19	10654008	OW90B	05/07/09	0125	29158999	3.288	7299953	12.510
20	10654009	OW90C	05/07/09	0142	30606651	3.286	7960781	12.509
21	10654011	OW90D	05/07/09	0159	28857014	3.286	7398112	12.510
22	10654018	OW90E	05/07/09	0216	29503735	3.286	7289896	12.510
23	10654018 MS	OW90EMS	05/07/09	0234	29915887	3.288	7817626	12.509
24	10654018 MSD	OW90EMSD	05/07/09	0251	28918953	3.287	7413010	12.509
25	10654028	OW90F	05/07/09	0308	28562216	3.287	7234975	12.511
26		AR1254	05/07/09	0325	25546915	3.286	6445260	12.511
27		AR1660	05/07/09	0342	25511700	3.286	6539607	12.511

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

PCB Analysis
Sample Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: 10654007

SAMPLE

Lab Sample ID: OW90A

LIMS ID: 09-10068

Matrix: Sediment

Data Release Authorized: *AB*

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 01:08

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 59.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	75.5%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/0506-1.b/0506B065.d
Data file 2: 20090506.b/0506-2.b/0506B065.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90A *yz 5/8/09*
Client ID: 10654007
Injection Date: 07-MAY-2009 01:08
Report Date: 05/08/2009 11:29
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.507	0.002	11364576	5.145	0.000	10601268	30.2	28.9	4.4	Tetrachloro-m-xylene
11.120	-0.001	7913962	11.844	0.001	6714481	27.9	30.7	9.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	75.4	72.2
Decachlorobiphenyl	69.8	76.6

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	28837064	8.3
Hexabromobiphenyl	6745626	8182343	21.3

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	29495653	18.2
Hexabromobiphenyl	6589208	7351035	11.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.946	-0.043	348709	37.0	1	6.707	0.005	2115980	150.8	
Aroclor-1016	2	6.316	-0.054	132611	4.9	2	7.329	0.051	245398	9.2	
Aroclor-1016	3	6.430	-0.080	170246	12.9	3	7.508	0.040	324639	29.5	
Aroclor-1016	4	6.812	-0.007	61811	7.9	4	8.009	-0.031	78512	9.5	
Total CollAve (4 peaks):				15.7	Total Col2Ave (4 peaks):				49.7	RPD = 104*	
Corrected Ave (3 peaks):				8.6	Corrected Ave (3 peaks):				16.1	RPD = 61*	
Aroclor-1221	1	---	---		0.0	1	5.796	0.056	421879	90.2	
Aroclor-1221	2	---	---		0.0	2	6.016	0.056	83601	30.9	
Aroclor-1221	3	---	---		0.0	3	6.103	0.036	72142	8.2	
Aroclor-1221	NS	---	---		----	4	6.707	-0.012	2115980	707.3	
CollAve: <3 Quant Peaks						Col2Ave: 209.1					
Aroclor-1232	1	5.000	-0.096	229353	25.6	1	6.103	0.035	72142	8.7	
Aroclor-1232	2	5.946	-0.044	348709	84.8	2	6.707	0.003	2115980	322.1	
Aroclor-1232	3	6.430	0.057	170246	14.1	3	7.329	0.051	245398	21.1	
Aroclor-1232	4	---	---		0.0	4	7.508	0.039	324639	64.4	
Total CollAve (3 peaks):				41.5	Total Col2Ave (4 peaks):				104.1	RPD = 86*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				31.4		
Aroclor-1242	1	5.946	-0.044	348709	40.1	1	6.707	0.006	2115980	183.0	
Aroclor-1242	2	6.316	-0.055	132611	5.5	2	7.329	0.052	245398	11.0	
Aroclor-1242	3	6.430	-0.080	170246	14.4	3	7.508	0.039	324639	34.6	
Aroclor-1242	4	7.357	0.086	96391	9.0	4	8.383	0.002	94584	11.4	
Total CollAve (4 peaks):				17.2	Total Col2Ave (4 peaks):				60.0	RPD = 111*	
Corrected Ave (3 peaks):				9.6	Corrected Ave (3 peaks):				19.0	RPD = 66*	
Aroclor-1248	1	6.316	-0.050	132611	8.5	1	7.329	0.056	245398	16.9	
Aroclor-1248	2	6.812	-0.006	61811	5.3	2	7.687	0.003	40128	4.7	
Aroclor-1248	3	7.357	0.088	96391	6.1	3	8.009	-0.031	78512	7.2	
Aroclor-1248	4	7.644	-0.001	142675	5.2	4	8.383	0.003	94584	6.6	
Total CollAve (4 peaks):				6.3	Total Col2Ave (4 peaks):				8.8	RPD = 34	
Corrected Ave (3 peaks):				5.5	Corrected Ave (3 peaks):				6.2	RPD = 11	
Aroclor-1254	1	7.644	0.003	142675	6.3	1	8.607	-0.001	148875	9.9	
Aroclor-1254	2	7.891	-0.003	159329	7.2	2	9.011	0.004	120243	11.5	
Aroclor-1254	3	8.190	-0.005	115432	8.4	3	9.116	0.000	178337	7.9	
Aroclor-1254	4	8.299	-0.003	284992	10.6	4	9.295	0.019	251643	11.1	
Aroclor-1254	5	9.056	-0.003	218075	9.4	5	9.665	-0.002	77440	5.4	
Total CollAve (5 peaks):				8.4	Total Col2Ave (5 peaks):				9.2	RPD = 9	
Corrected Ave (4 peaks):				7.8	Corrected Ave (4 peaks):				8.6	RPD = 9	
Aroclor-1260	1	9.212	-0.001	42785	2.8	1	10.190	0.004	143580	11.8	
Aroclor-1260	2	9.433	-0.006	27051	1.9	2	10.271	0.006	51725	5.7	
Aroclor-1260	3	9.683	-0.003	158388	4.4	3	10.345	0.000	197549	7.0	
Aroclor-1260	4	9.963	-0.003	74029	4.3	4	10.744	-0.003	69866	4.0	
Aroclor-1260	5	10.105	0.019	218183	24.8	NS	---	---	---	----	
Total CollAve (5 peaks):				7.6	Total Col2Ave (4 peaks):				7.1	RPD = 7	
Corrected Ave (4 peaks):				3.3	Corrected Ave (3 peaks):				5.6	RPD = 50*	
Aroclor-1262	1	9.433	-0.006	27051	1.3	1	10.190	0.005	143580	8.8	
Aroclor-1262	2	9.683	-0.001	158388	3.3	2	10.345	0.000	197549	5.5	
Aroclor-1262	3	9.963	-0.002	74029	4.8	3	10.691	-0.008	333991	23.2	
Aroclor-1262	4	10.105	0.021	218183	10.3	4	10.744	-0.003	69866	3.2	
Aroclor-1262	5	10.519	-0.001	298687	20.8	5	11.223	0.011	120647	10.9	
Total CollAve (5 peaks):				8.1	Total Col2Ave (5 peaks):				10.3	RPD = 24	
Corrected Ave (4 peaks):				4.9	Corrected Ave (4 peaks):				7.1	RPD = 36	
Aroclor-1268	1	9.963	-0.069	74029	1.3	1	10.691	-0.006	333991	8.0	
Aroclor-1268	2	10.105	0.023	218183	4.0	2	10.744	-0.001	69866	1.8	
Aroclor-1268	3	10.303	-0.038	99884	2.4	3	11.013	-0.002	159955	5.5	
Aroclor-1268	4	10.870	0.019	696178	7.0	4	11.533	-0.015	93261	1.1	
Total CollAve (4 peaks):				3.7	Total Col2Ave (4 peaks):				4.1	RPD = 11	
Corrected Ave (3 peaks):				2.6	Corrected Ave (3 peaks):				2.8	RPD = 8	

Total PCB Area Col1 (4.605 - 11.021) = 15388305

Col1 Total PCB = 0.1 ppm*

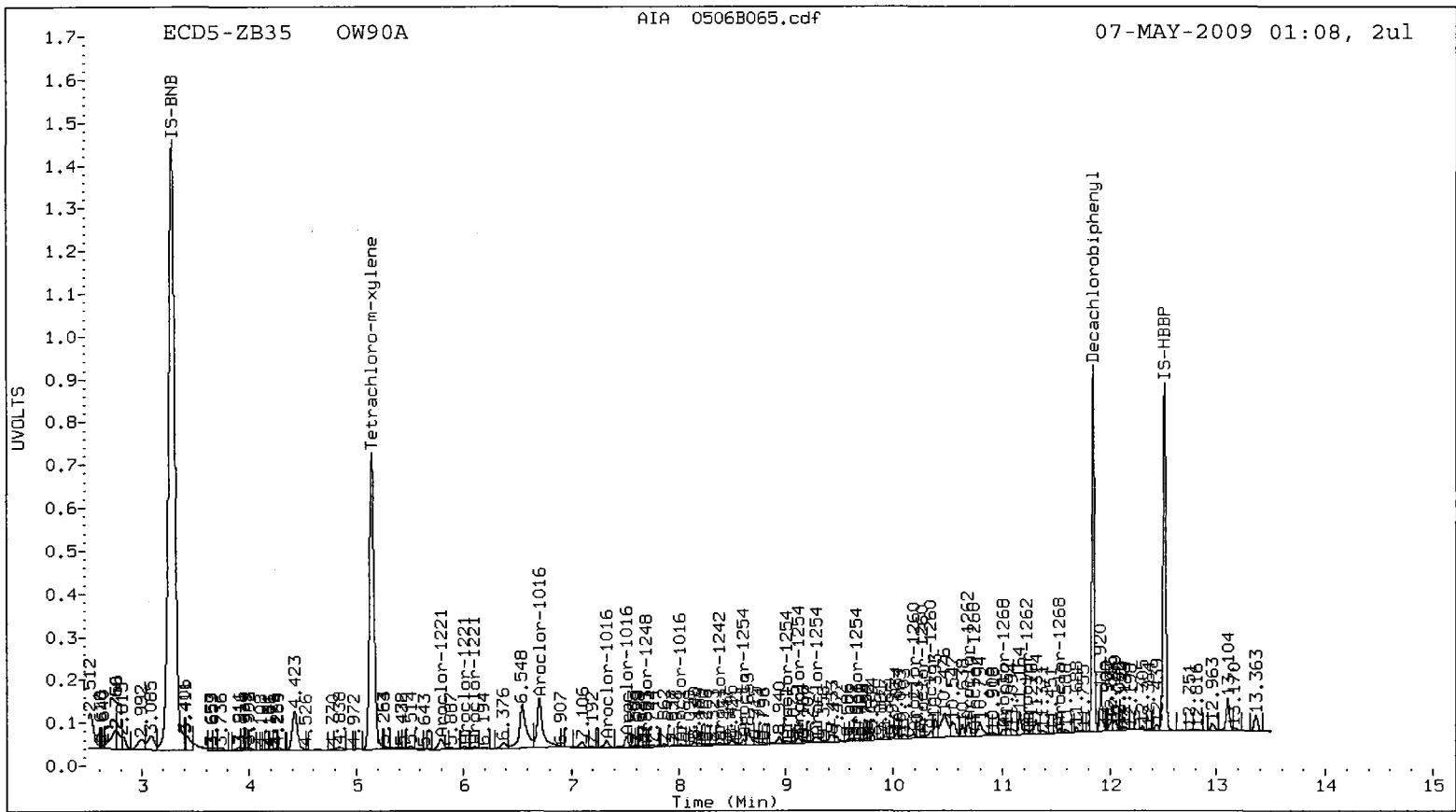
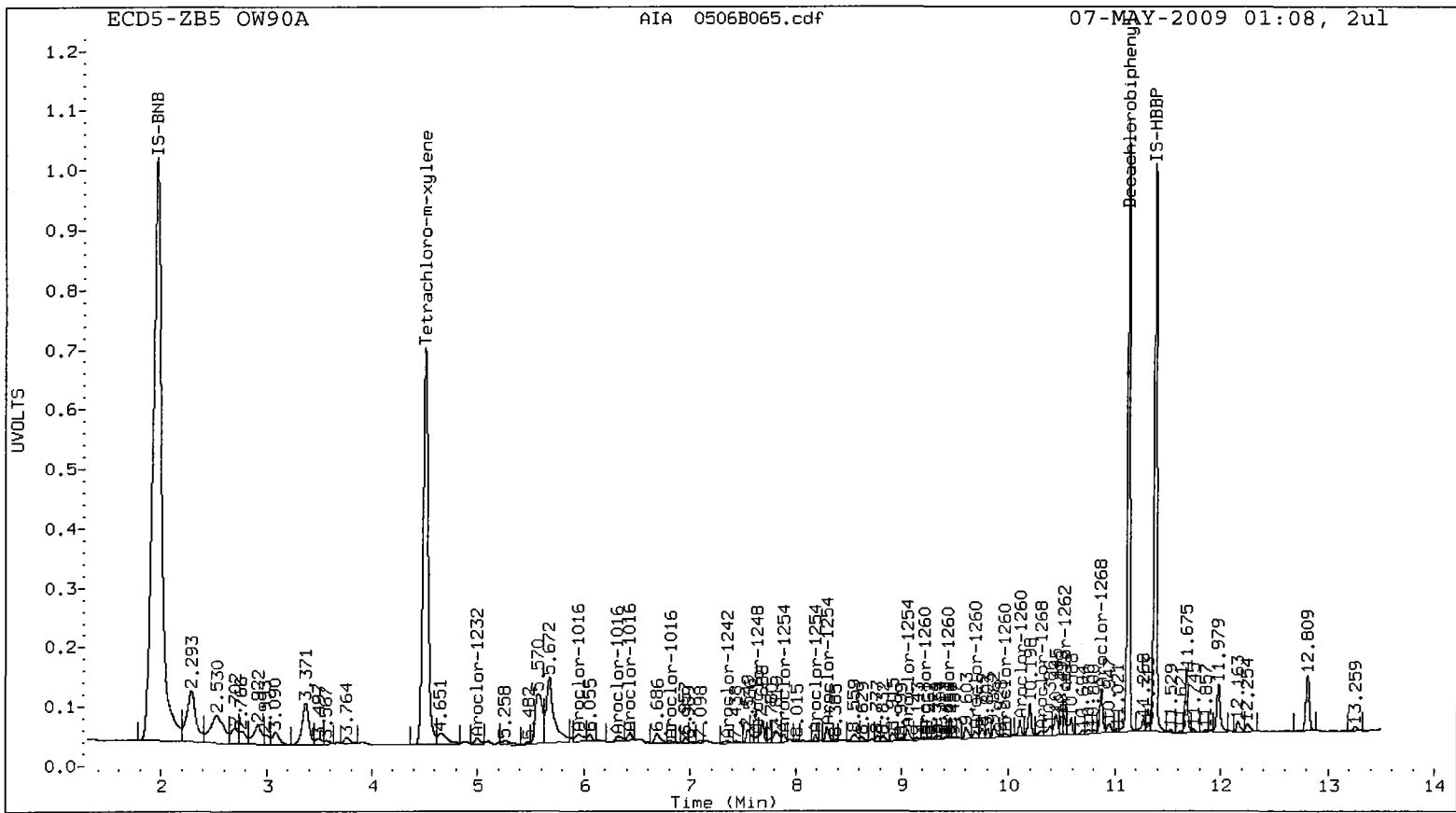
Total PCB Area Col2 (5.245 - 11.743) = 16305633

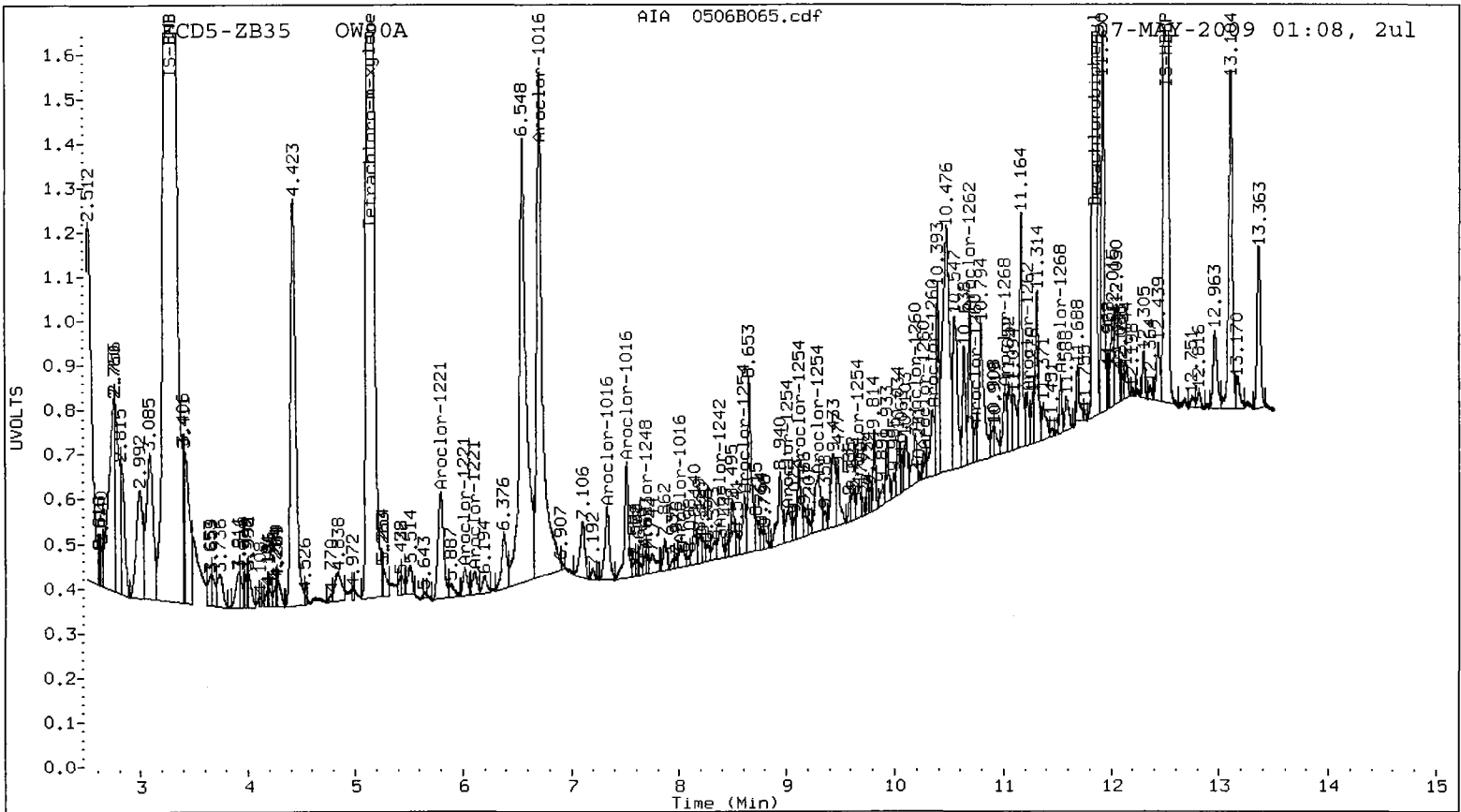
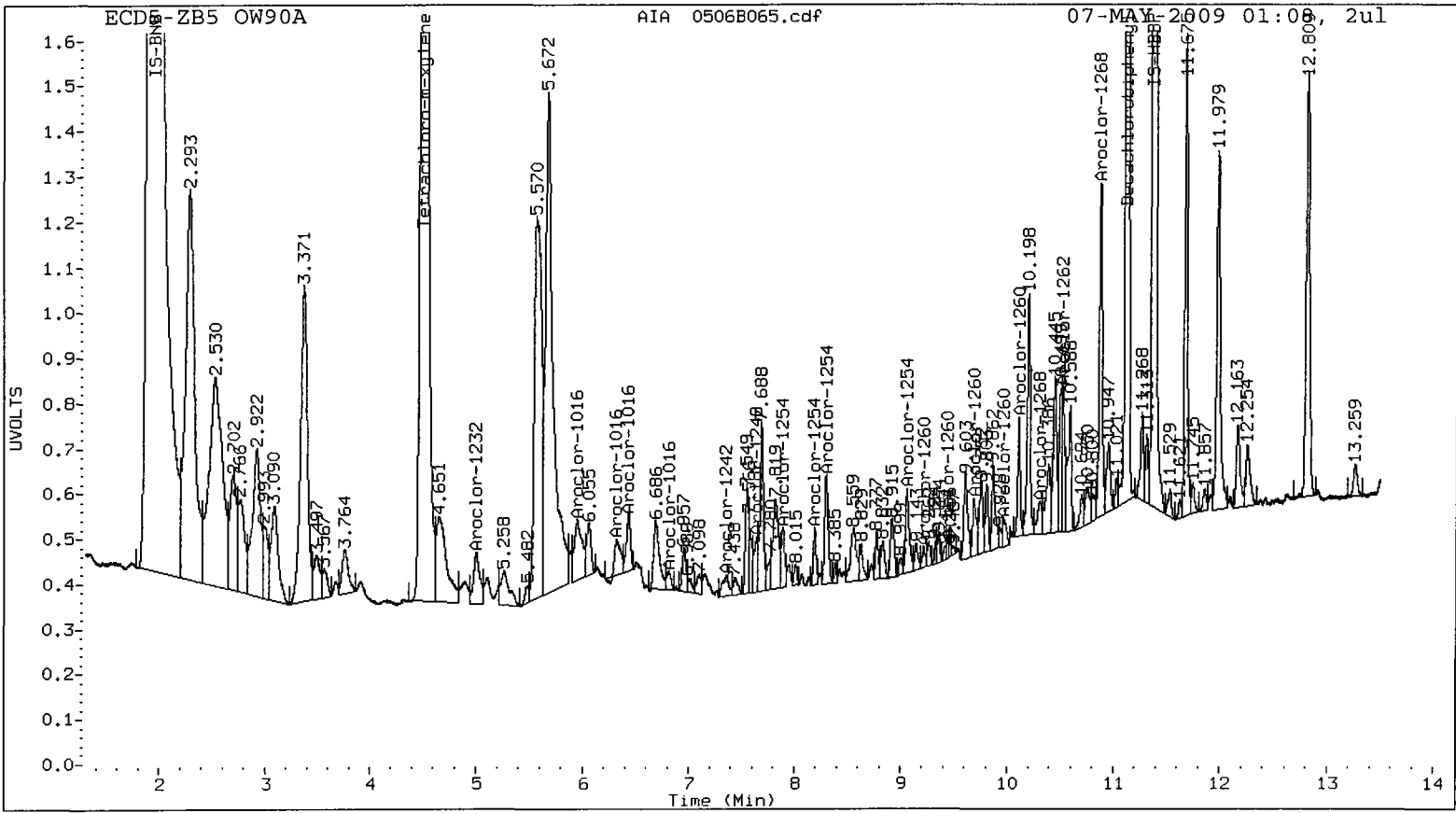
Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0450 : 00350





ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

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Sample ID: 10654008

SAMPLE

Lab Sample ID: OW90B

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 01:25

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 59.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.0%
Tetrachlorometaxylene	74.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/0506-1.b/0506B066.d
Data file 2: 20090506.b/0506-2.b/0506B066.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90B
Client ID: 10654008
Injection Date: 07-MAY-2009 01:25
Report Date: 05/08/2009 11:29
Matrix: SOIL
Dilution Factor: 1.000

YZ 5/8/09

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.506	0.001	11462003	5.146	0.001	10445320	29.6	28.8	2.8	Tetrachloro-m-xylene
11.120	-0.001	7798867	11.844	0.001	6605735	27.7	30.4	9.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	74.0	72.0
Decachlorobiphenyl	69.4	75.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	29661056	11.4
Hexabromobiphenyl	6745626	8115434	20.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	29158999	16.8
Hexabromobiphenyl	6589208	7299953	10.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.991	0.003	91701	9.4	1	6.709	0.007	360032	26.0
Aroclor-1016	2	6.318	-0.052	281666	10.0	2	7.311	0.033	95963	3.6
Aroclor-1016	3	6.432	-0.077	324721	24.0	3	7.458	-0.010	42886	3.9
Aroclor-1016	4	6.804	-0.015	158124	19.7	4	8.011	-0.030	107402	13.2
Total CollAve (4 peaks):				15.8		Total Col2Ave (4 peaks):				11.7 RPD = 30
Corrected Ave (3 peaks):				13.1		Corrected Ave (3 peaks):				6.9 RPD = 62*
Aroclor-1221	1	4.736	-0.099	102454	24.8	1	5.792	0.052	288059	62.3
Aroclor-1221	2	4.999	0.003	186000	68.7	2	6.018	0.057	65548	24.5
Aroclor-1221	3	5.086	-0.007	101562	10.0	3	6.108	0.040	86436	10.0
Aroclor-1221	NS	---	---	---	---	4	6.709	-0.010	360032	121.7
Total CollAve (3 peaks):				34.5		Total Col2Ave (4 peaks):				54.6 RPD = 45*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				32.3
Aroclor-1232	1	5.086	-0.011	101562	11.0	1	6.108	0.040	86436	10.6
Aroclor-1232	2	5.991	0.002	91701	21.7	2	6.709	0.005	360032	55.4
Aroclor-1232	3	6.318	-0.055	281666	22.7	3	7.311	0.032	95963	8.4
Aroclor-1232	4	6.432	-0.080	324721	52.3	4	7.458	-0.011	42886	8.6
Total CollAve (4 peaks):				26.9		Total Col2Ave (4 peaks):				20.7 RPD = 26
Corrected Ave (3 peaks):				18.5		Corrected Ave (3 peaks):				9.2 RPD = 67*
Aroclor-1242	1	5.991	0.001	91701	10.3	1	6.709	0.008	360032	31.5
Aroclor-1242	2	6.318	-0.053	281666	11.3	2	7.311	0.033	95963	4.4
Aroclor-1242	3	6.432	-0.077	324721	26.6	3	7.458	-0.011	42886	4.6
Aroclor-1242	4	---	---	---	0.0	4	8.376	-0.005	117752	14.3
Total CollAve (3 peaks):				16.1		Total Col2Ave (4 peaks):				13.7 RPD = 16
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				7.8
Aroclor-1248	1	6.318	-0.048	281666	17.5	1	7.311	0.038	95963	6.7
Aroclor-1248	2	6.804	-0.014	158124	13.3	2	7.687	0.002	76404	9.0
Aroclor-1248	3	---	---	---	0.0	3	8.011	-0.029	107402	10.0
Aroclor-1248	4	7.635	-0.010	138270	4.9	4	8.376	-0.004	117752	8.3
Total CollAve (3 peaks):				11.9		Total Col2Ave (4 peaks):				8.5 RPD = 33
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				8.0
Aroclor-1254	1	7.635	-0.006	138270	5.9	1	8.606	-0.002	87735	5.9
Aroclor-1254	2	7.892	-0.002	89657	4.0	2	9.004	-0.003	114363	11.1
Aroclor-1254	3	8.191	-0.004	70999	5.0	3	9.123	0.006	171171	7.7
Aroclor-1254	4	8.301	-0.001	134797	4.9	4	9.276	0.000	205375	9.2
Aroclor-1254	5	9.058	-0.001	204233	8.6	5	9.662	-0.005	88863	6.2
Total CollAve (5 peaks):				5.7		Total Col2Ave (5 peaks):				8.0 RPD = 35
Corrected Ave (4 peaks):				4.9		Corrected Ave (4 peaks):				7.2 RPD = 38
Aroclor-1260	1	9.216	0.003	66772	4.4	1	10.191	0.004	77019	6.4
Aroclor-1260	2	9.457	0.018	47540	3.3	2	10.271	0.006	40655	4.5
Aroclor-1260	3	9.684	-0.002	114171	3.2	3	10.349	0.004	68573	2.4
Aroclor-1260	4	9.930	-0.037	73296	4.3	4	10.794	0.048	283191	16.5
Aroclor-1260	5	10.106	0.021	167480	19.2	NS	---	---	---	---
Total CollAve (5 peaks):				6.9		Total Col2Ave (4 peaks):				7.4 RPD = 8
Corrected Ave (4 peaks):				3.8		Corrected Ave (3 peaks):				4.4 RPD = 16
Aroclor-1262	1	9.457	0.018	47540	2.3	1	10.191	0.005	77019	4.7
Aroclor-1262	2	9.684	-0.001	114171	2.4	2	10.349	0.004	68573	1.9
Aroclor-1262	3	9.930	-0.035	73296	4.8	3	10.694	-0.004	192401	13.5
Aroclor-1262	4	10.106	0.022	167480	8.0	4	10.794	0.047	283191	12.9
Aroclor-1262	5	10.498	-0.022	412105	29.0	5	11.222	0.011	119897	10.9
Total CollAve (5 peaks):				9.3		Total Col2Ave (5 peaks):				8.8 RPD = 6
Corrected Ave (4 peaks):				4.4		Corrected Ave (4 peaks):				7.6 RPD = 54*
Aroclor-1268	1	10.106	0.074	167480	2.9	1	10.694	-0.003	192401	4.6
Aroclor-1268	2	---	---	---	0.0	2	10.794	0.049	283191	7.3
Aroclor-1268	3	10.393	0.052	99002	2.4	3	11.013	-0.002	162977	5.6
Aroclor-1268	4	10.871	0.020	682805	6.9	4	11.533	-0.015	102968	1.3
Total CollAve (3 peaks):				4.1		Total Col2Ave (4 peaks):				4.7 RPD = 14

Corrected Ave: < 3 Peaks

Corrected Ave (3 peaks): 3.8

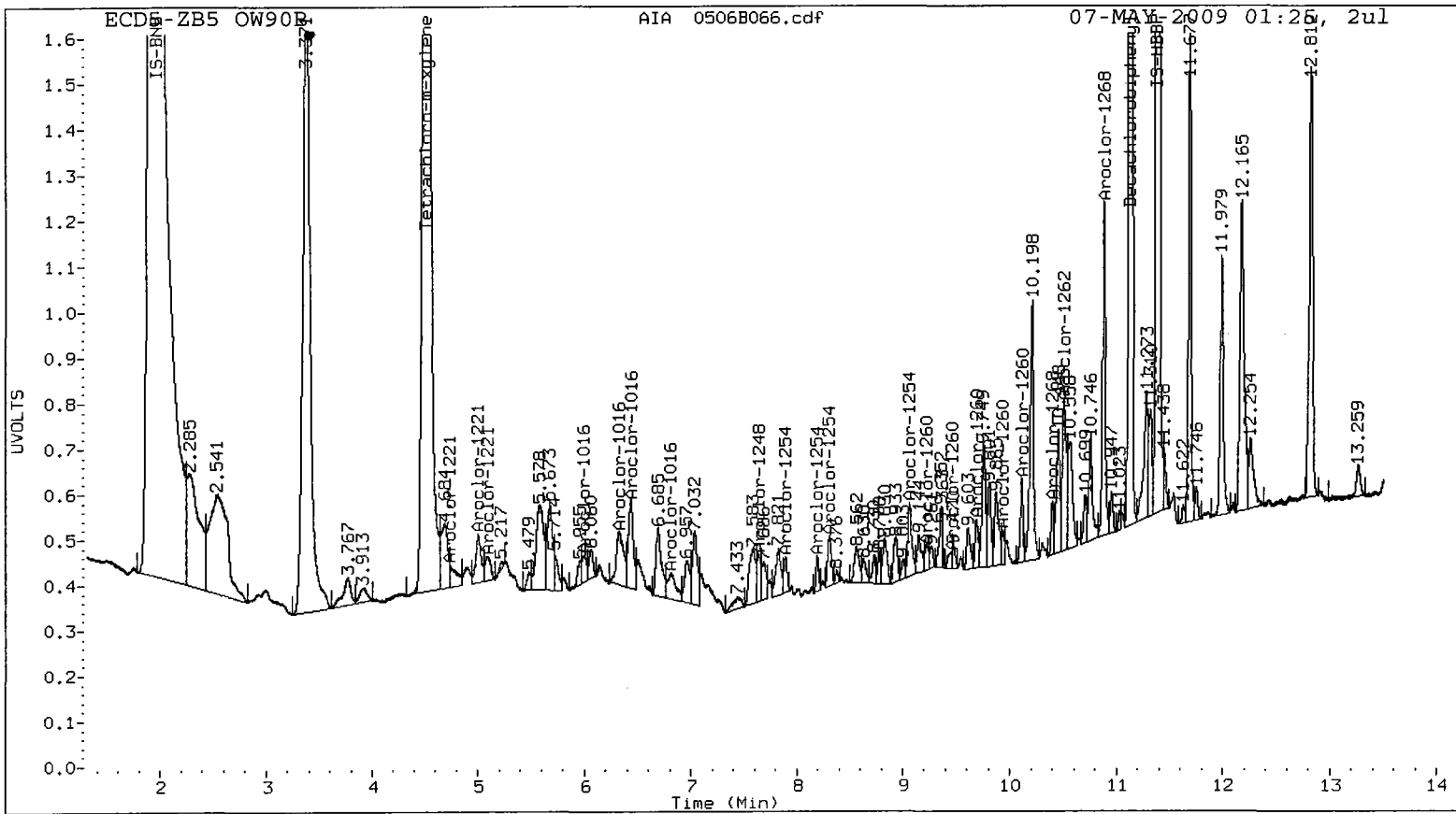
Total PCB Area Col1 (4.605 - 11.021) = 10035095 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.245 - 11.743) = 10479786 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0490 : 00356



ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1


Sample ID: 10654009

SAMPLE

Lab Sample ID: OW90C

LIMS ID: 09-10070

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 01:42

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 55.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	71.0%
Tetrachlorometaxylene	69.8%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

1/2 5/19/09

Data file 1: 20090506.b/0506-1.b/0506B067.d
Data file 2: 20090506.b/0506-2.b/0506B067.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90C
Client ID: 10654009
Injection Date: 07-MAY-2009 01:42
Report Date: 05/08/2009 11:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.505	0.000	10834133	5.145	0.000	10379140	27.9	27.2	2.3	Tetrachloro-m-xylene
11.121	0.000	7947682	11.844	0.002	6728079	25.5	28.4	10.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	69.7	68.1
Decachlorobiphenyl	63.7	70.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	29749351	11.7
Hexabromobiphenyl	6745626	8998021	33.4

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	30606651	22.6
Hexabromobiphenyl	6589208	7960781	20.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.991	0.002	118244	12.1	1	6.704	0.003	270958	18.6	
Aroclor-1016	2	6.348	-0.022	340185	12.1	2	7.325	0.047	252134	9.1	
Aroclor-1016	3	6.500	-0.010	174802	12.9	3	7.508	0.040	274773	24.0	
Aroclor-1016	4	6.807	-0.011	227985	28.3	4	8.041	0.001	134808	15.8	
Total CollAve (4 peaks):				16.4	Total Col2Ave (4 peaks):				16.9	RPD = 3	
Corrected Ave (3 peaks):				12.4	Corrected Ave (3 peaks):				14.5	RPD = 16	
Aroclor-1221	1	---			0.0	1	5.794	0.055	287648	59.2	
Aroclor-1221	2	---			0.0	2	5.934	-0.027	12852	4.6	
Aroclor-1221	3	---			0.0	3	6.103	0.035	143221	15.8	
Aroclor-1221	NS	---			---	4	6.704	-0.014	270958	87.3	
CollAve: <3 Quant Peaks						Col2Ave: 41.7					
Aroclor-1232	1	4.997	-0.099	209239	22.7	1	6.103	0.035	143221	16.7	
Aroclor-1232	2	5.991	0.001	118244	27.9	2	6.704	0.000	270958	39.8	
Aroclor-1232	3	6.348	-0.025	340185	27.4	3	7.325	0.047	252134	20.9	
Aroclor-1232	4	6.500	-0.013	174802	28.1	4	7.508	0.039	274773	52.5	
Total CollAve (4 peaks):				26.5	Total Col2Ave (4 peaks):				32.5	RPD = 20	
Corrected Ave (3 peaks):				26.0	Corrected Ave (3 peaks):				25.8	RPD = 1	
Aroclor-1242	1	5.991	0.001	118244	13.2	1	6.704	0.004	270958	22.6	
Aroclor-1242	2	6.348	-0.024	340185	13.6	2	7.325	0.048	252134	10.9	
Aroclor-1242	3	6.500	-0.010	174802	14.3	3	7.508	0.039	274773	28.3	
Aroclor-1242	4	7.259	-0.012	71342	6.5	4	8.381	0.000	152415	17.6	
Total CollAve (4 peaks):				11.9	Total Col2Ave (4 peaks):				19.8	RPD = 50*	
Corrected Ave (3 peaks):				11.1	Corrected Ave (3 peaks):				17.0	RPD = 42*	
Aroclor-1248	1	6.348	-0.019	340185	21.1	1	7.325	0.053	252134	16.7	
Aroclor-1248	2	6.807	-0.010	227985	19.1	2	7.683	-0.001	141203	15.8	
Aroclor-1248	3	7.259	-0.010	71342	4.4	3	8.041	0.001	134808	12.0	
Aroclor-1248	4	7.639	-0.006	259188	9.1	4	8.381	0.001	152415	10.2	
Total CollAve (4 peaks):				13.4	Total Col2Ave (4 peaks):				13.7	RPD = 2	
Corrected Ave (3 peaks):				10.9	Corrected Ave (3 peaks):				12.7	RPD = 15	
Aroclor-1254	1	7.639	-0.002	259188	11.0	1	8.605	-0.002	144776	9.3	
Aroclor-1254	2	7.889	-0.005	206835	9.1	2	9.007	0.000	137418	12.7	
Aroclor-1254	3	8.186	-0.009	276009	19.5	3	9.115	-0.001	236659	10.1	
Aroclor-1254	4	8.295	-0.007	341396	12.3	4	9.297	0.021	106747	4.5	
Aroclor-1254	5	9.055	-0.004	259900	10.8	5	9.665	-0.002	93619	6.3	
Total CollAve (5 peaks):				12.5	Total Col2Ave (5 peaks):				8.6	RPD = 37	
Corrected Ave (4 peaks):				10.8	Corrected Ave (4 peaks):				7.6	RPD = 36	
Aroclor-1260	1	9.213	0.000	149213	8.8	1	10.189	0.003	206261	15.6	
Aroclor-1260	2	9.435	-0.004	197614	12.4	2	10.297	0.032	390229	40.0	
Aroclor-1260	3	9.682	-0.004	254804	6.5	3	10.349	0.004	402841	13.1	
Aroclor-1260	4	9.963	-0.004	125537	6.6	4	10.745	-0.001	130972	7.0	
Aroclor-1260	5	10.103	0.018	267546	27.6	NS	---			---	
Total CollAve (5 peaks):				12.4	Total Col2Ave (4 peaks):				18.9	RPD = 42*	
Corrected Ave (4 peaks):				8.6	Corrected Ave (3 peaks):				11.9	RPD = 32	
Aroclor-1262	1	9.435	-0.004	197614	8.7	1	10.189	0.003	206261	11.6	
Aroclor-1262	2	9.682	-0.002	254804	4.8	2	10.349	0.003	402841	10.4	
Aroclor-1262	3	9.963	-0.003	125537	7.4	3	10.690	-0.008	2146782	137.7	
Aroclor-1262	4	10.103	0.020	267546	11.5	4	10.745	-0.002	130972	5.5	
Aroclor-1262	5	10.527	0.008	1939585	123.0	5	11.225	0.014	246729	20.5	
Total CollAve (5 peaks):				31.1	Total Col2Ave (5 peaks):				37.1	RPD = 18	
Corrected Ave (4 peaks):				8.1	Corrected Ave (4 peaks):				12.0	RPD = 39	
Aroclor-1268	1	10.034	0.002	77811	1.2	1	10.690	-0.007	2146782	47.4	
Aroclor-1268	2	10.103	0.022	267546	4.5	2	10.745	0.000	130972	3.1	
Aroclor-1268	3	10.302	-0.039	46412	1.0	3	11.013	-0.002	187298	5.9	
Aroclor-1268	4	10.868	0.016	745321	6.8	4	11.534	-0.014	824172	9.2	
Total CollAve (4 peaks):				3.4	Total Col2Ave (4 peaks):				16.4	RPD = 132*	
Corrected Ave (3 peaks):				2.2	Corrected Ave (3 peaks):				6.1	RPD = 92*	

Total PCB Area Col1 (4.605 - 11.021) = 26570754

Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (5.245 - 11.743) = 23141128

Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0450 : 00362

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: 10654011

SAMPLE

Lab Sample ID: OW90D

LIMS ID: 09-10071

Matrix: Sediment

Data Release Authorized: *RB*

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 01:59

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 50.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.8%
Tetrachlorometaxylene	76.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

YZ 5/8/09

Data file 1: 20090506.b/0506-1.b/0506B068.d
Data file 2: 20090506.b/0506-2.b/0506B068.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90D
Client ID: 10654011
Injection Date: 07-MAY-2009 01:59
Report Date: 05/08/2009 11:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.505	0.000	11778670	5.146	0.001	10641360	30.5	29.6	2.8	Tetrachloro-m-xylene
11.122	0.001	7888707	11.845	0.002	6855896	28.0	31.1	10.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	76.2	74.1
Decachlorobiphenyl	70.1	77.8

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	29597723	11.1
Hexabromobiphenyl	6745626	8119418	20.4

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	28857014	15.6
Hexabromobiphenyl	6589208	7398112	12.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.994	0.006	115800	12.0	1	6.704	0.003	94630	6.9	
Aroclor-1016	2	6.326	-0.045	199247	7.1	2	7.299	0.022	107893	4.1	
Aroclor-1016	3	6.433	-0.077	279984	20.7	3	7.474	0.006	12182	1.1	
Aroclor-1016	4	---	---	---	0.0	4	8.008	-0.032	61384	7.6	
Total CollAve (3 peaks):				13.3	Total Col2Ave (4 peaks):				4.9	RPD = 92*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				4.0		
Aroclor-1221	1	---	---	---	0.0	1	5.792	0.052	254513	55.6	
Aroclor-1221	2	---	---	---	0.0	2	6.018	0.057	45391	17.2	
Aroclor-1221	3	---	---	---	0.0	3	6.102	0.035	87294	10.2	
Aroclor-1221	NS	---	---	---	----	4	6.704	-0.014	94630	32.3	
CollAve: <3 Quant Peaks					Col2Ave:				28.8		
Aroclor-1232	1	4.998	-0.098	115722	12.6	1	6.102	0.035	87294	10.8	
Aroclor-1232	2	5.994	0.005	115800	27.4	2	6.704	0.000	94630	14.7	
Aroclor-1232	3	6.326	-0.048	199247	16.1	3	7.299	0.021	107893	9.5	
Aroclor-1232	4	6.433	-0.080	279984	45.2	4	7.474	0.005	12182	2.5	
Total CollAve (4 peaks):				25.3	Total Col2Ave (4 peaks):				9.4	RPD = 92*	
Corrected Ave (3 peaks):				18.7	Corrected Ave (3 peaks):				7.6	RPD = 85*	
Aroclor-1242	1	5.994	0.004	115800	13.0	1	6.704	0.003	94630	8.4	
Aroclor-1242	2	6.326	-0.046	199247	8.0	2	7.299	0.022	107893	4.9	
Aroclor-1242	3	6.433	-0.077	279984	23.0	3	7.474	0.005	12182	1.3	
Aroclor-1242	4	---	---	---	0.0	4	8.359	-0.022	93602	11.5	
Total CollAve (3 peaks):				14.7	Total Col2Ave (4 peaks):				6.5	RPD = 77*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				4.9		
Aroclor-1248	1	6.326	-0.041	199247	12.4	1	7.299	0.027	107893	7.6	
Aroclor-1248	2	---	---	---	0.0	2	7.689	0.005	50499	6.0	
Aroclor-1248	3	---	---	---	0.0	3	8.008	-0.032	61384	5.8	
Aroclor-1248	4	7.634	-0.011	219970	7.8	4	8.359	-0.021	93602	6.7	
CollAve: <3 Quant Peaks					Col2Ave:				6.5		
Aroclor-1254	1	7.634	-0.006	219970	9.4	1	8.606	-0.002	63607	4.3	
Aroclor-1254	2	7.823	-0.070	747159	33.0	2	9.015	0.008	71947	7.1	
Aroclor-1254	3	8.192	-0.003	53730	3.8	3	9.121	0.005	100793	4.6	
Aroclor-1254	4	8.319	0.017	103126	3.7	4	9.277	0.001	130485	5.9	
Aroclor-1254	5	9.058	-0.001	145865	6.1	5	9.669	0.002	37969	2.7	
Total CollAve (5 peaks):				11.2	Total Col2Ave (5 peaks):				4.9	RPD = 78*	
Corrected Ave (4 peaks):				5.8	Corrected Ave (4 peaks):				4.4	RPD = 28	
Aroclor-1260	1	9.263	0.050	72948	4.8	1	10.191	0.005	52034	4.2	
Aroclor-1260	2	9.354	-0.085	101672	7.1	2	10.270	0.006	22944	2.5	
Aroclor-1260	3	9.683	-0.002	76964	2.2	3	10.352	0.007	49674	1.7	
Aroclor-1260	4	---	---	---	0.0	4	10.793	0.047	242020	13.9	
Aroclor-1260	5	10.107	0.021	115025	13.2	NS	---	---	---	----	
Total CollAve (4 peaks):				6.8	Total Col2Ave (4 peaks):				5.6	RPD = 19	
Corrected Ave (3 peaks):				4.7	Corrected Ave (3 peaks):				2.8	RPD = 49*	
Aroclor-1262	1	9.354	-0.084	101672	5.0	1	10.191	0.006	52034	3.2	
Aroclor-1262	2	9.683	-0.001	76964	1.6	2	10.352	0.007	49674	1.4	
Aroclor-1262	3	9.866	-0.100	89096	5.8	3	10.694	-0.004	105458	7.3	
Aroclor-1262	4	10.107	0.023	115025	5.5	4	10.793	0.047	242020	10.9	
Aroclor-1262	5	10.499	-0.021	288084	20.2	5	11.224	0.013	120185	10.8	
Total CollAve (5 peaks):				7.6	Total Col2Ave (5 peaks):				6.7	RPD = 13	
Corrected Ave (4 peaks):				4.5	Corrected Ave (4 peaks):				5.6	RPD = 23	
Aroclor-1268	1	10.107	0.075	115025	2.0	1	10.694	-0.003	105458	2.5	
Aroclor-1268	2	---	---	---	0.0	2	10.793	0.048	242020	6.2	
Aroclor-1268	3	10.300	-0.041	41366	1.0	3	11.012	-0.003	141772	4.8	
Aroclor-1268	4	10.874	0.022	678907	6.9	4	11.534	-0.014	130138	1.6	
Total CollAve (3 peaks):				3.3	Total Col2Ave (4 peaks):				3.8	RPD = 13	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				3.0		

Total PCB Area Col1 (4.605 - 11.021) = 6639832

Col1 Total PCB = 0.0 ppm*

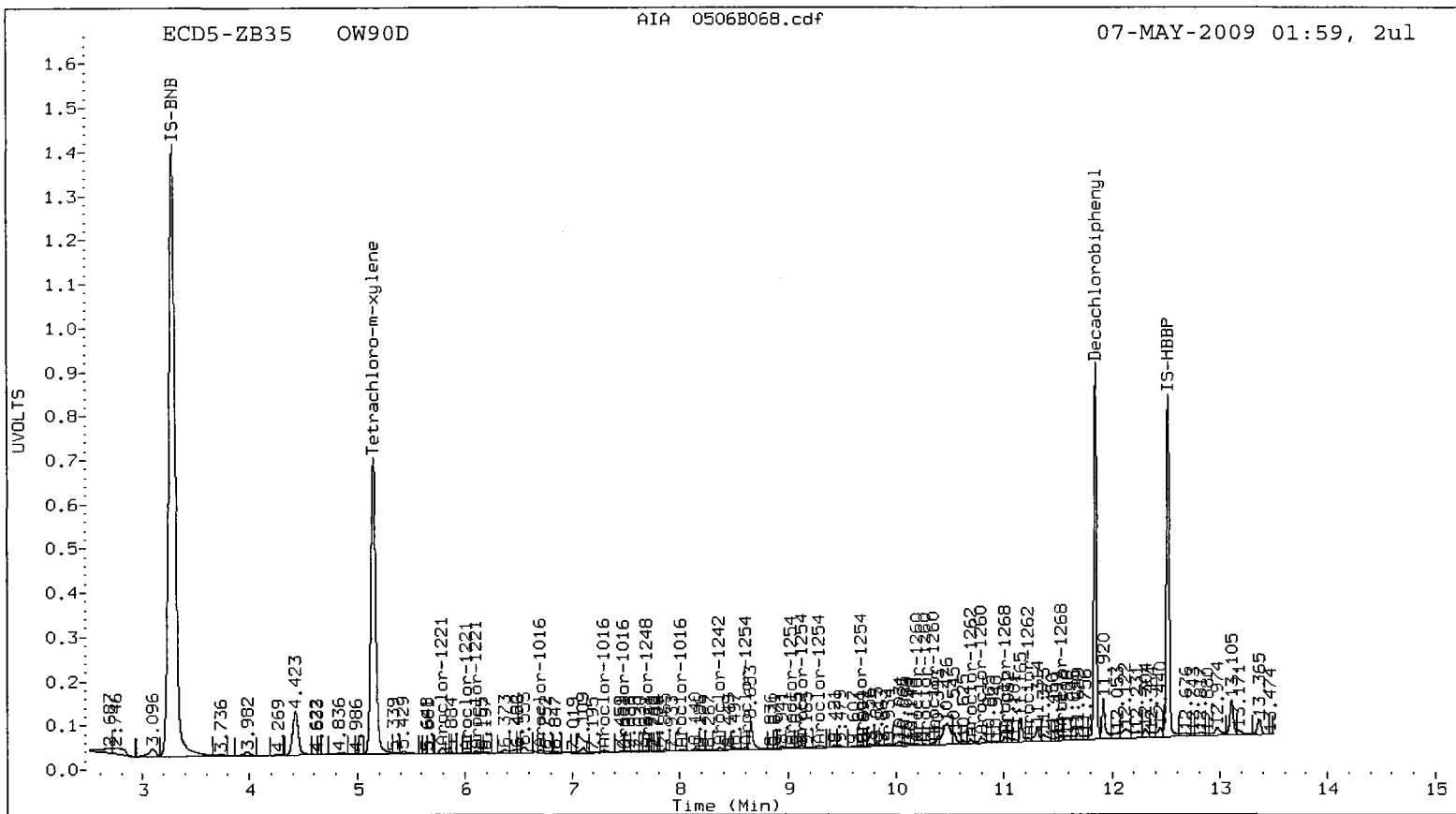
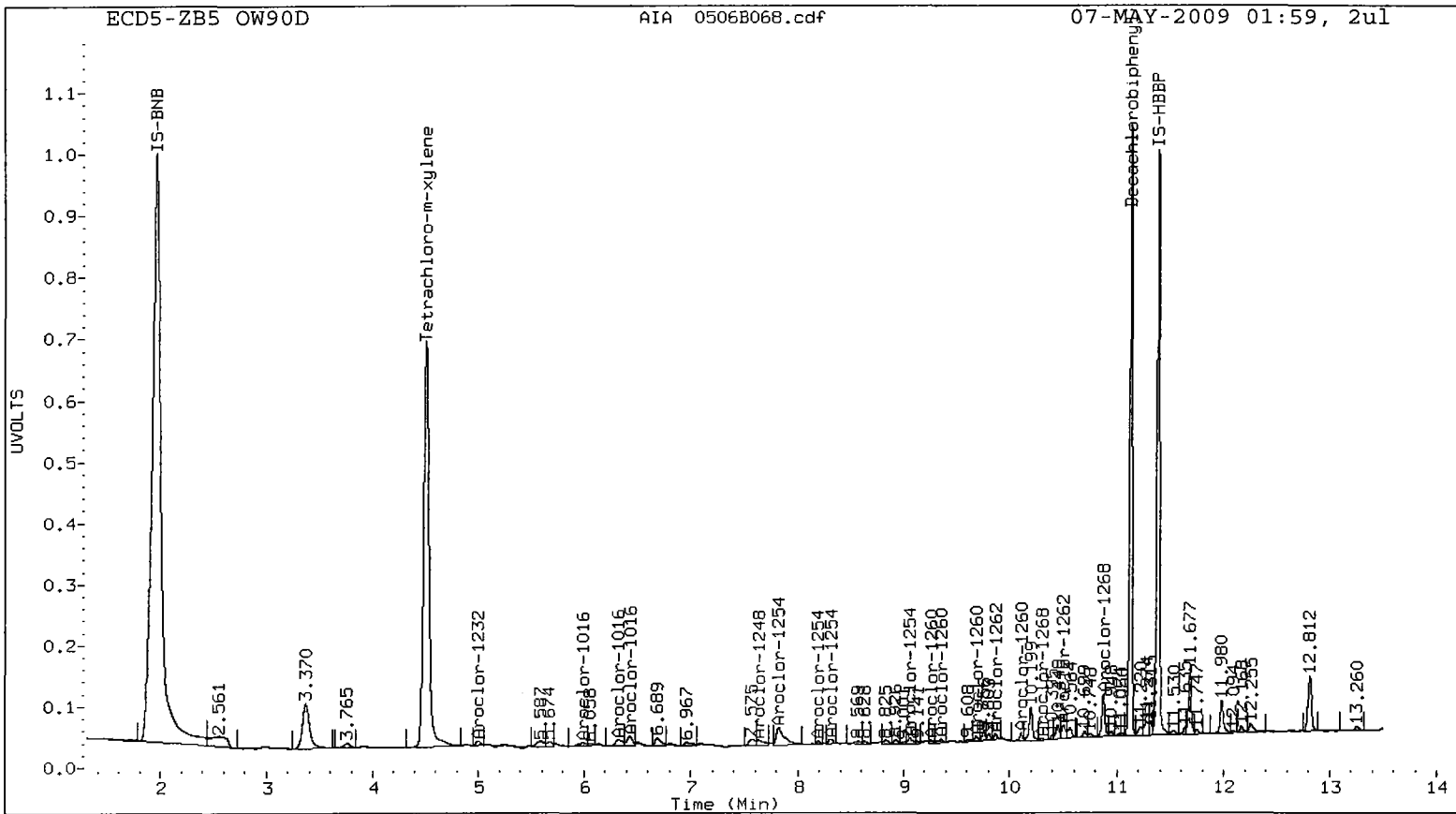
Total PCB Area Col2 (5.245 - 11.743) = 9553163

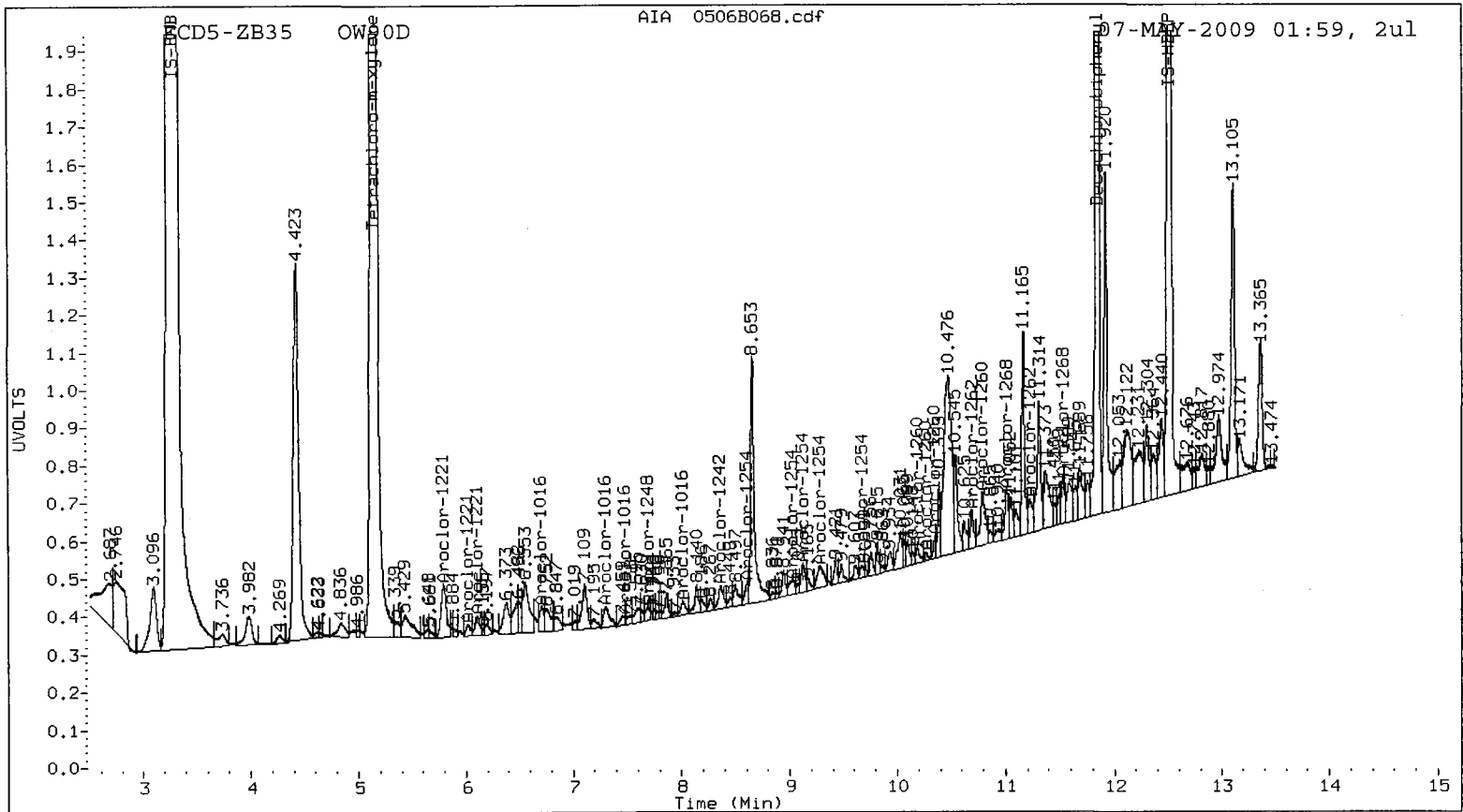
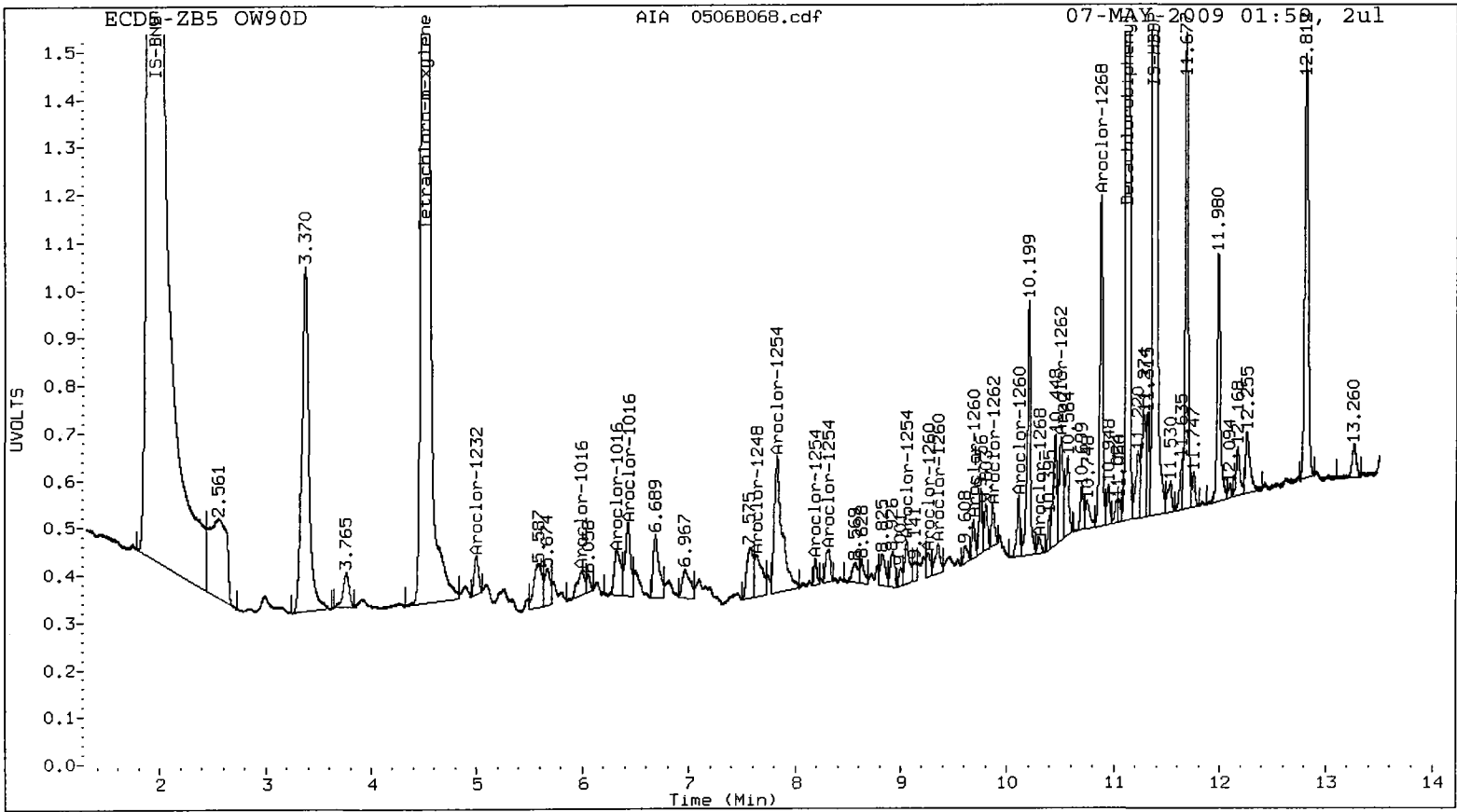
Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0490 : 00368





OW90: 00370

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: 10654018

SAMPLE

Lab Sample ID: OW90E

LIMS ID: 09-10072

Matrix: Sediment

Data Release Authorized: *AB*

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 02:16

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.0%
Tetrachlorometaxylene	74.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Y2 5/8/09

Data file 1: 20090506.b/0506-1.b/0506B069.d
Data file 2: 20090506.b/0506-2.b/0506B069.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90E
Client ID: 10654018
Injection Date: 07-MAY-2009 02:16
Report Date: 05/08/2009 11:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.506	0.001	11814220	5.147	0.002	10355811	29.7	28.2	5.3	Tetrachloro-m-xylene
11.121	0.000	7660901	11.844	0.002	6346601	26.7	29.2	9.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	74.3	70.5
Decachlorobiphenyl	66.7	73.0

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	30430377	14.2
Hexabromobiphenyl	6745626	8286500	22.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	29503735	18.2
Hexabromobiphenyl	6589208	7289896	10.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.955	-0.034	108794	10.9	1	6.708	0.006	72994	5.2	
Aroclor-1016	2	6.430	0.060	58226	2.0	2	7.299	0.021	87379	3.3	
Aroclor-1016	3	---	---	---	0.0	3	---	---	---	0.0	
Aroclor-1016	4	---	---	---	0.0	4	8.012	-0.028	85228	10.3	
CollAve: <3 Quant Peaks						Col2Ave: 6.3					
Aroclor-1221	1	4.891	0.056	84907	20.0	1	5.786	0.046	227432	48.6	
Aroclor-1221	2	5.001	0.004	176892	63.7	2	6.019	0.058	11470	4.2	
Aroclor-1221	3	5.106	0.013	55944	5.4	3	6.107	0.040	46963	5.4	
Aroclor-1221	NS	---	---	---	----	4	6.708	-0.011	72994	24.4	
Total CollAve (3 peaks):				29.7	Total Col2Ave (4 peaks):				20.6	RPD = 36	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				11.3		
Aroclor-1232	1	5.106	0.009	55944	5.9	1	6.107	0.040	46963	5.7	
Aroclor-1232	2	5.955	-0.035	108794	25.1	2	6.708	0.004	72994	11.1	
Aroclor-1232	3	6.430	0.057	58226	4.6	3	7.299	0.021	87379	7.5	
Aroclor-1232	4	---	---	---	0.0	4	---	---	---	0.0	
Total CollAve (3 peaks):				11.9	Total Col2Ave (3 peaks):				8.1	RPD = 38	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						
Aroclor-1242	1	5.955	-0.035	108794	11.9	1	6.708	0.007	72994	6.3	
Aroclor-1242	2	6.430	0.059	58226	2.3	2	7.299	0.022	87379	3.9	
Aroclor-1242	3	---	---	---	0.0	3	---	---	---	0.0	
Aroclor-1242	4	---	---	---	0.0	4	8.359	-0.022	92354	11.1	
CollAve: <3 Quant Peaks						Col2Ave: 7.1					
Aroclor-1248	1	6.430	0.064	58226	3.5	1	7.299	0.027	87379	6.0	
Aroclor-1248	2	---	---	---	0.0	2	7.611	-0.074	14651	1.7	
Aroclor-1248	3	---	---	---	0.0	3	8.012	-0.028	85228	7.9	
Aroclor-1248	4	7.643	-0.002	41610	1.4	4	8.359	-0.021	92354	6.4	
CollAve: <3 Quant Peaks						Col2Ave: 5.5					
Aroclor-1254	1	7.643	0.003	41610	1.7	1	8.604	-0.003	49030	3.3	
Aroclor-1254	2	7.839	-0.055	10619	0.5	2	9.000	-0.007	22622	2.2	
Aroclor-1254	3	8.192	-0.003	35741	2.5	3	9.126	0.010	85975	3.8	
Aroclor-1254	4	8.323	0.020	76263	2.7	4	9.288	0.013	85809	3.8	
Aroclor-1254	5	9.057	-0.002	101324	4.1	5	9.673	0.006	20789	1.4	
Total CollAve (5 peaks):				2.3	Total Col2Ave (5 peaks):				2.9	RPD = 23	
Corrected Ave (4 peaks):				1.8	Corrected Ave (4 peaks):				2.7	RPD = 37	
Aroclor-1260	1	9.133	-0.079	43187	2.8	1	10.191	0.005	49198	4.1	
Aroclor-1260	2	---	---	---	0.0	2	10.269	0.004	12162	1.4	
Aroclor-1260	3	9.689	0.003	148551	4.1	3	10.352	0.007	52361	1.9	
Aroclor-1260	4	9.932	-0.034	253304	14.6	4	10.792	0.046	246147	14.3	
Aroclor-1260	5	10.108	0.023	77927	8.7	NS	---	---	---	----	
Total CollAve (4 peaks):				7.5	Total Col2Ave (4 peaks):				5.4	RPD = 33	
Corrected Ave (3 peaks):				5.2	Corrected Ave (3 peaks):				2.4	RPD = 73*	
Aroclor-1262	1	---	---	---	0.0	1	10.191	0.006	49198	3.0	
Aroclor-1262	2	9.689	0.005	148551	3.1	2	10.352	0.007	52361	1.5	
Aroclor-1262	3	9.932	-0.033	253304	16.3	3	10.696	-0.002	69154	4.8	
Aroclor-1262	4	10.108	0.025	77927	3.6	4	10.792	0.045	246147	11.2	
Aroclor-1262	5	10.501	-0.019	491493	33.8	5	11.224	0.013	57946	5.3	
Total CollAve (4 peaks):				14.2	Total Col2Ave (5 peaks):				5.2	RPD = 93*	
Corrected Ave (3 peaks):				7.7	Corrected Ave (4 peaks):				3.7	RPD = 71*	
Aroclor-1268	1	10.108	0.076	77927	1.3	1	10.696	-0.001	69154	1.7	
Aroclor-1268	2	---	---	---	0.0	2	10.792	0.047	246147	6.4	
Aroclor-1268	3	10.400	0.059	125344	3.0	3	11.016	0.001	178579	6.1	
Aroclor-1268	4	10.876	0.024	670468	6.6	4	11.531	-0.017	31917	0.4	
Total CollAve (3 peaks):				3.7	Total Col2Ave (4 peaks):				3.6	RPD = 0	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				2.7		

Total PCB Area Col1 (4.605 - 11.021) = 5943932

Col1 Total PCB = 0.0 ppm*

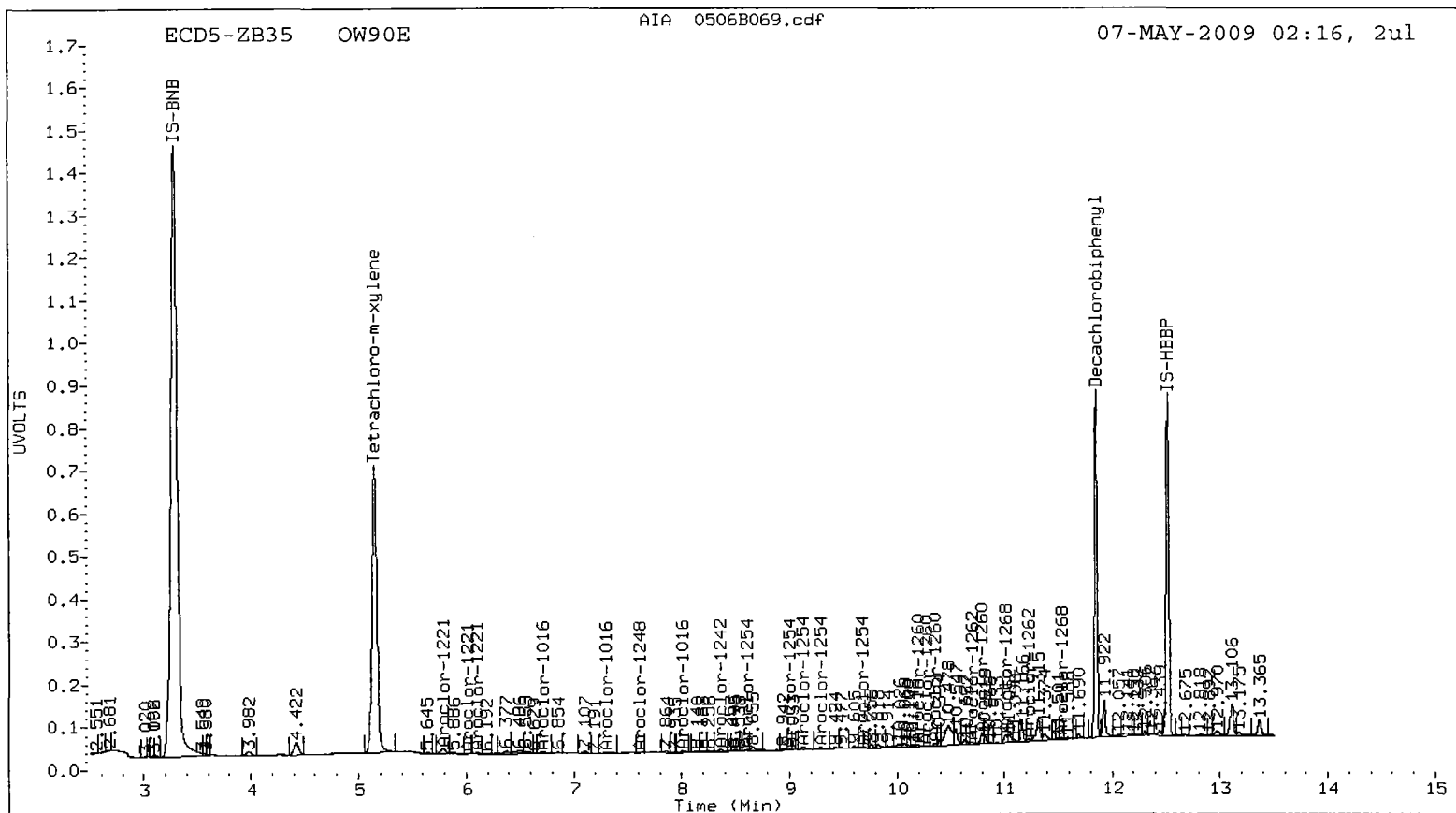
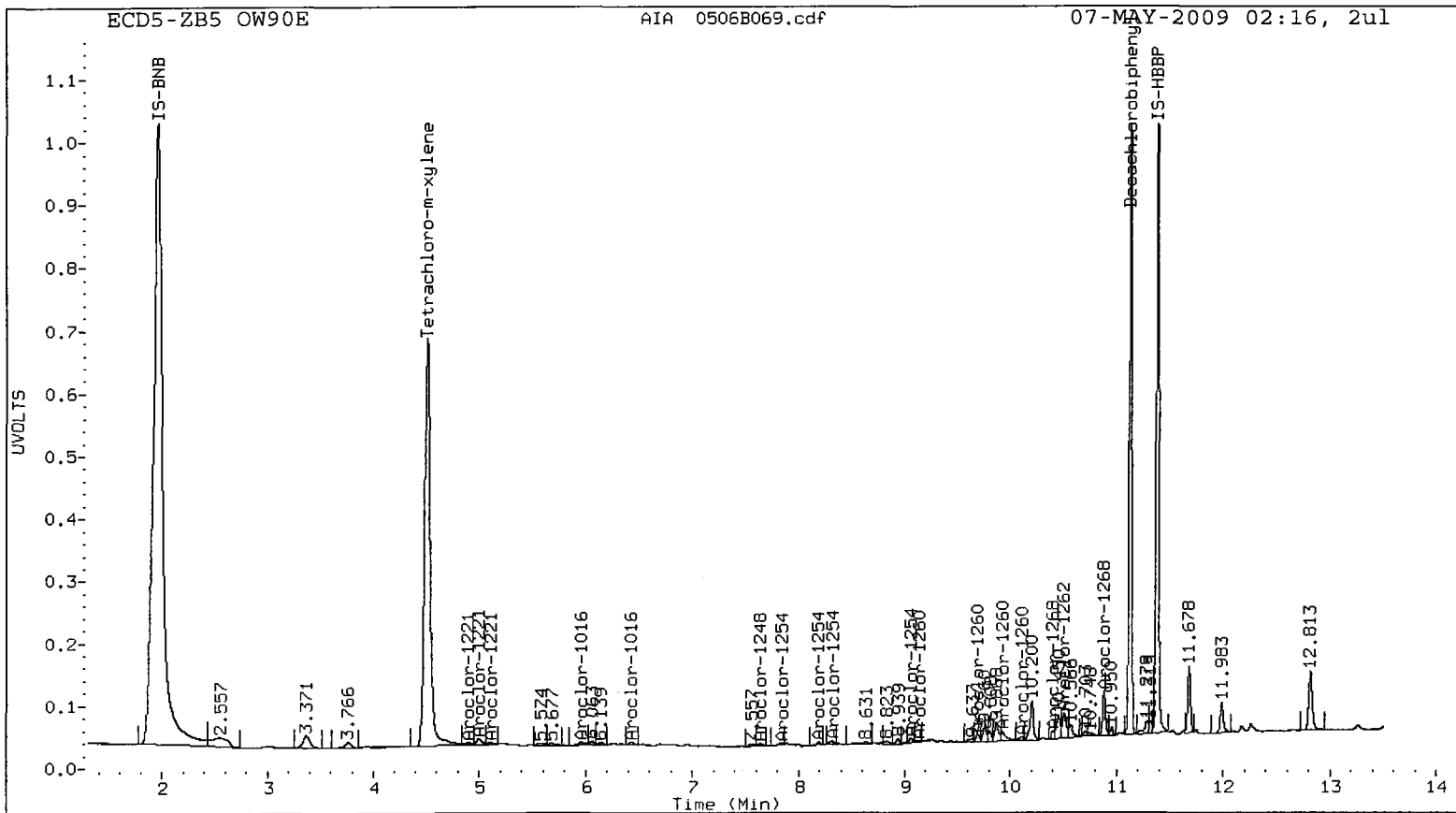
Total PCB Area Col2 (5.245 - 11.743) = 6998167

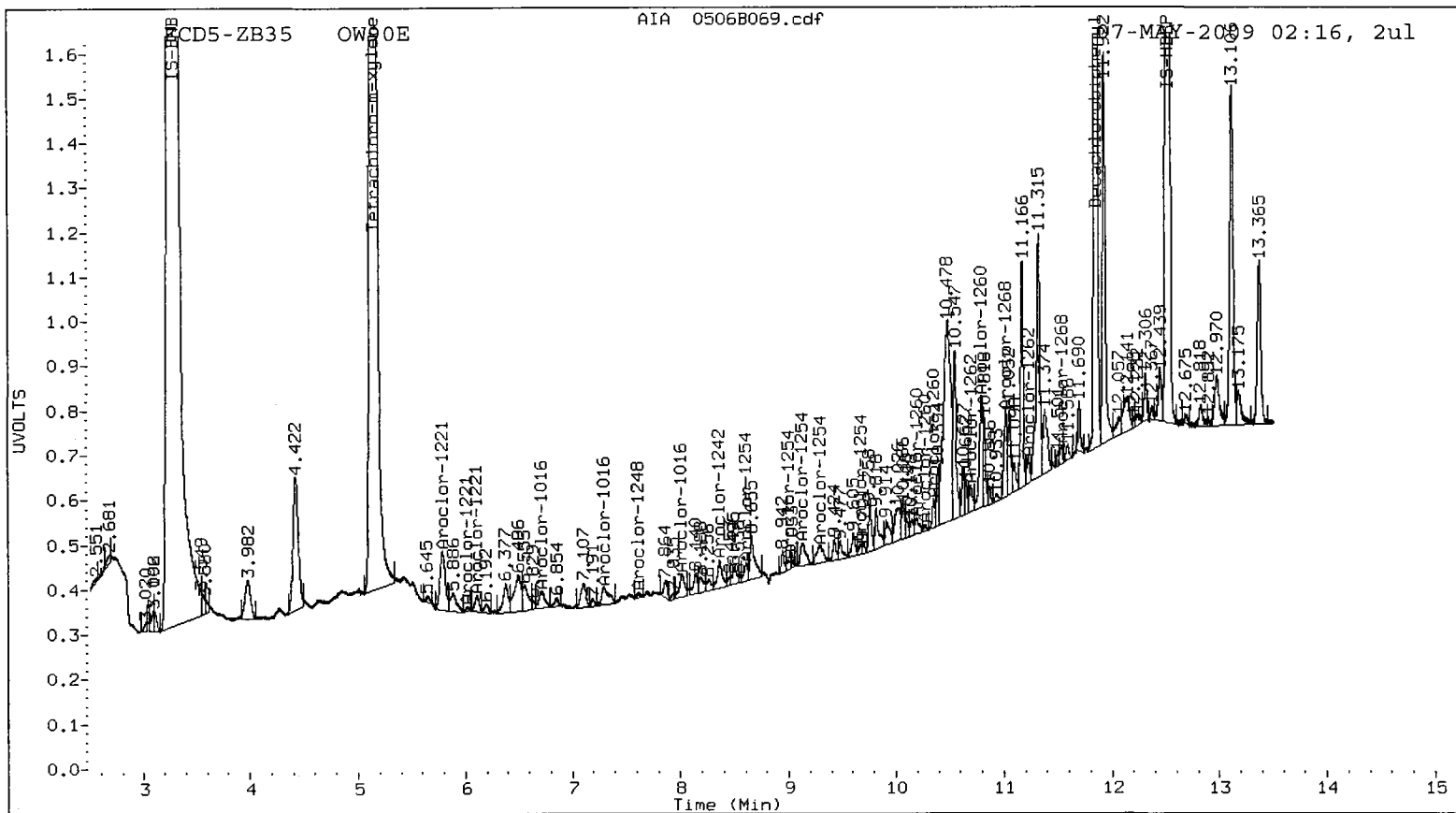
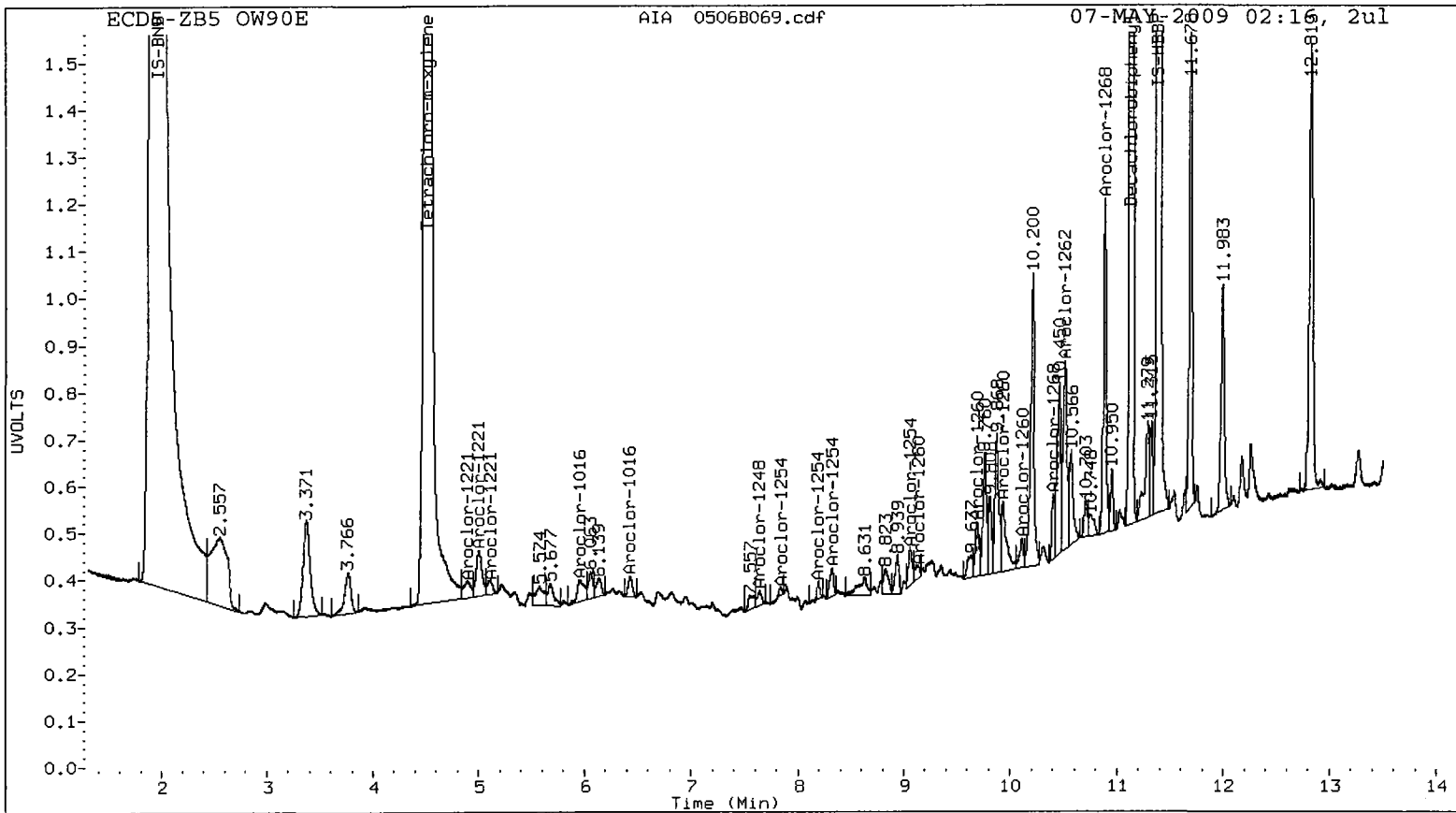
Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0450 : 00374





ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1


Sample ID: 10654028

SAMPLE

Lab Sample ID: OW90F

LIMS ID: 09-10073

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/05/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 03:08

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 35.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	75.0%
Tetrachlorometaxylene	75.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/0506-1.b/0506B072.d
Data file 2: 20090506.b/0506-2.b/0506B072.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90F *Y2 5/8/09*
Client ID: 10654028
Injection Date: 07-MAY-2009 03:08
Report Date: 05/08/2009 11:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.507	0.002	11370202	5.145	0.001	10520620	30.1	29.6	1.8	Tetrachloro-m-xylene
11.121	0.000	7999491	11.844	0.001	6470360	27.3	30.0	9.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	75.4	74.0
Decachlorobiphenyl	68.3	75.0

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	28879130	8.4
Hexabromobiphenyl	6745626	8446192	25.2

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	28562216	14.5
Hexabromobiphenyl	6589208	7234975	9.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.997	0.008	174336	18.4	1	6.702	0.000	17620	1.3	
Aroclor-1016	2	6.322	-0.048	285319	10.5	2	7.291	0.013	145133	5.6	
Aroclor-1016	3	6.497	-0.013	119574	9.1	3	7.457	-0.012	38390	3.6	
Aroclor-1016	4	6.801	-0.018	13655946	1745.6	4	8.008	-0.033	13413976	1680.3	
Total CollAve (4 peaks):				445.9		Total Col2Ave (4 peaks):				422.7	RPD = 5
Corrected Ave (3 peaks):				12.7		Corrected Ave (3 peaks):				3.5	RPD = 113*
Aroclor-1221	1	---			0.0	1	5.707	-0.033	26064	5.8	
Aroclor-1221	2	4.999	0.003	232041	88.0	2	5.908	-0.053	81839	31.2	
Aroclor-1221	3	5.095	0.002	256441	26.0	3	6.108	0.041	50299	5.9	
Aroclor-1221	NS	---			----	4	6.702	-0.016	17620	6.1	
CollAve: <3 Quant Peaks						Col2Ave:				12.3	
Aroclor-1232	1	5.095	-0.002	256441	28.6	1	6.108	0.041	50299	6.3	
Aroclor-1232	2	5.997	0.007	174336	42.3	2	6.702	-0.002	17620	2.8	
Aroclor-1232	3	6.322	-0.051	285319	23.7	3	7.291	0.013	145133	12.9	
Aroclor-1232	4	6.497	-0.016	119574	19.8	4	7.457	-0.013	38390	7.9	
Total CollAve (4 peaks):				28.6		Total Col2Ave (4 peaks):				7.5	RPD = 117*
Corrected Ave (3 peaks):				24.0		Corrected Ave (3 peaks):				5.6	RPD = 124*
Aroclor-1242	1	5.997	0.007	174336	20.0	1	6.702	0.001	17620	1.6	
Aroclor-1242	2	6.322	-0.049	285319	11.8	2	7.291	0.014	145133	6.7	
Aroclor-1242	3	6.497	-0.013	119574	10.1	3	7.457	-0.013	38390	4.2	
Aroclor-1242	4	7.262	-0.009	315747	29.4	4	8.357	-0.024	232151	28.8	
Total CollAve (4 peaks):				17.8		Total Col2Ave (4 peaks):				10.3	RPD = 53*
Corrected Ave (3 peaks):				14.0		Corrected Ave (3 peaks):				4.2	RPD = 108*
Aroclor-1248	1	6.322	-0.044	285319	18.2	1	7.291	0.019	145133	10.3	
Aroclor-1248	2	6.801	-0.017	13655946	1177.3	2	7.696	0.012	69214	8.3	
Aroclor-1248	3	7.262	-0.007	315747	20.0	3	8.008	-0.032	13413976	1277.9	
Aroclor-1248	4	7.685	0.040	120698	4.4	4	8.357	-0.023	232151	16.7	
Total CollAve (4 peaks):				305.0		Total Col2Ave (4 peaks):				328.3	RPD = 7
Corrected Ave (3 peaks):				14.2		Corrected Ave (3 peaks):				11.8	RPD = 19
Aroclor-1254	1	7.685	0.045	120698	5.3	1	8.605	-0.003	80037	5.5	
Aroclor-1254	2	7.889	-0.005	181687	8.2	2	9.026	0.019	23285	2.3	
Aroclor-1254	3	8.205	0.010	200319	14.6	3	9.122	0.006	67349	3.1	
Aroclor-1254	4	8.322	0.020	190375	7.1	4	9.289	0.013	257755	11.7	
Aroclor-1254	5	9.056	-0.003	150796	6.5	5	9.672	0.005	47180	3.4	
Total CollAve (5 peaks):				8.3		Total Col2Ave (5 peaks):				5.2	RPD = 46*
Corrected Ave (4 peaks):				6.8		Corrected Ave (4 peaks):				3.6	RPD = 62*
Aroclor-1260	1	9.139	-0.074	72528	4.5	1	10.189	0.003	27733	2.3	
Aroclor-1260	2	9.462	0.023	105808	7.1	2	10.270	0.006	14659	1.7	
Aroclor-1260	3	9.686	0.000	83955	2.3	3	10.350	0.006	59252	2.1	
Aroclor-1260	4	9.931	-0.035	85716	4.8	4	10.736	-0.010	33435	2.0	
Aroclor-1260	5	10.106	0.020	144773	15.9	NS	---			----	
Total CollAve (5 peaks):				6.9		Total Col2Ave (4 peaks):				2.0	RPD = 110*
Corrected Ave (4 peaks):				4.7		Corrected Ave (3 peaks):				1.9	RPD = 84*
Aroclor-1262	1	9.462	0.023	105808	5.0	1	10.189	0.004	27733	1.7	
Aroclor-1262	2	9.686	0.002	83955	1.7	2	10.350	0.005	59252	1.7	
Aroclor-1262	3	9.931	-0.034	85716	5.4	3	10.694	-0.004	69985	4.9	
Aroclor-1262	4	10.106	0.022	144773	6.6	4	10.736	-0.011	33435	1.5	
Aroclor-1262	5	10.501	-0.019	195301	13.2	5	11.224	0.013	64618	5.9	
Total CollAve (5 peaks):				6.4		Total Col2Ave (5 peaks):				3.2	RPD = 68*
Corrected Ave (4 peaks):				4.7		Corrected Ave (4 peaks):				2.5	RPD = 62*
Aroclor-1268	1	10.020	-0.012	73673	1.2	1	10.694	-0.003	69985	1.7	
Aroclor-1268	2	10.106	0.024	144773	2.6	2	10.736	-0.009	33435	0.9	
Aroclor-1268	3	---			0.0	3	11.009	-0.005	67471	2.3	
Aroclor-1268	4	10.874	0.023	743393	7.2	4	11.533	-0.014	41571	0.5	
Total CollAve (3 peaks):				3.7		Total Col2Ave (4 peaks):				1.4	RPD = 92*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				1.0	

Total PCB Area Col1 (4.605 - 11.021) = 25513951

Col1 Total PCB = 0.1 ppm*

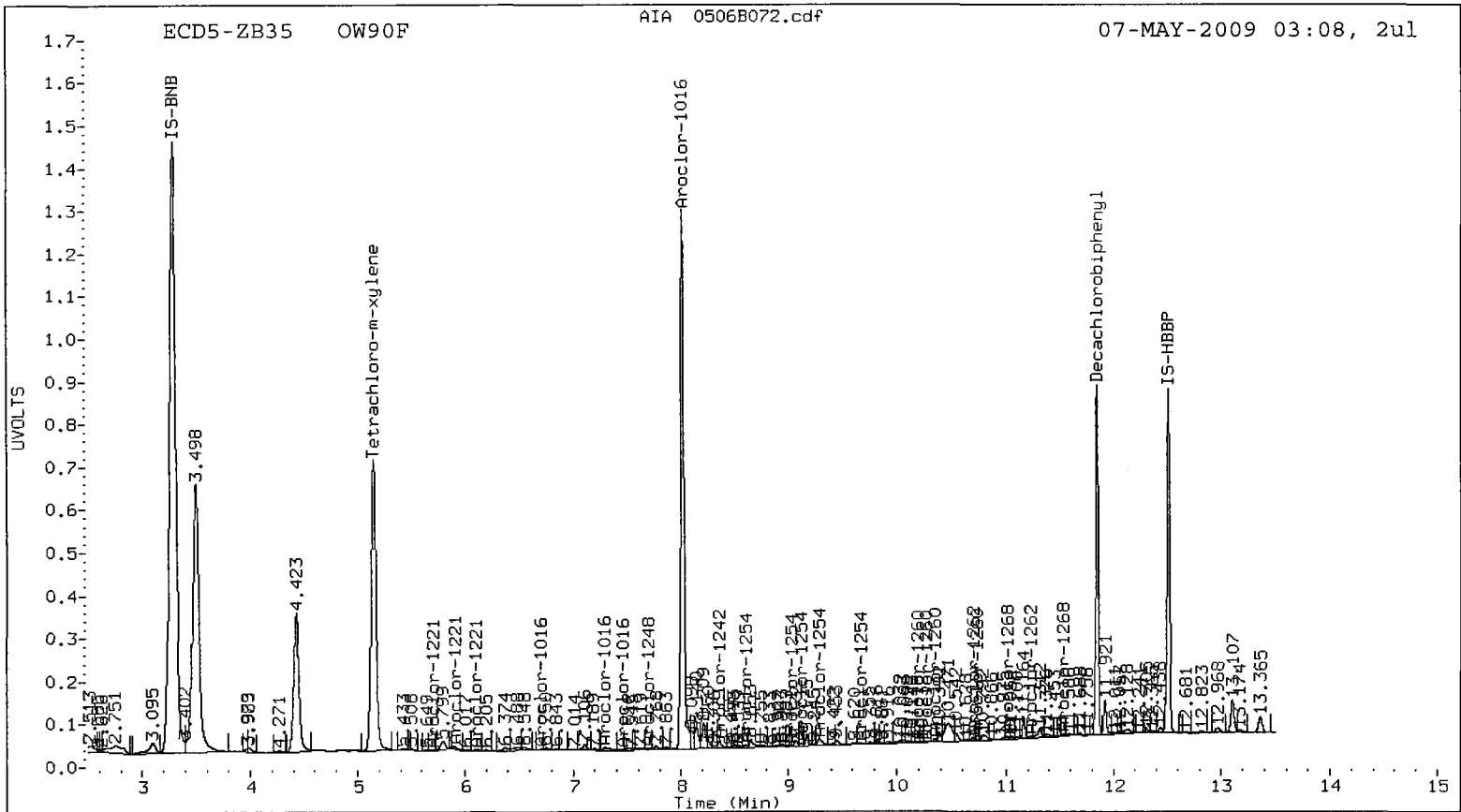
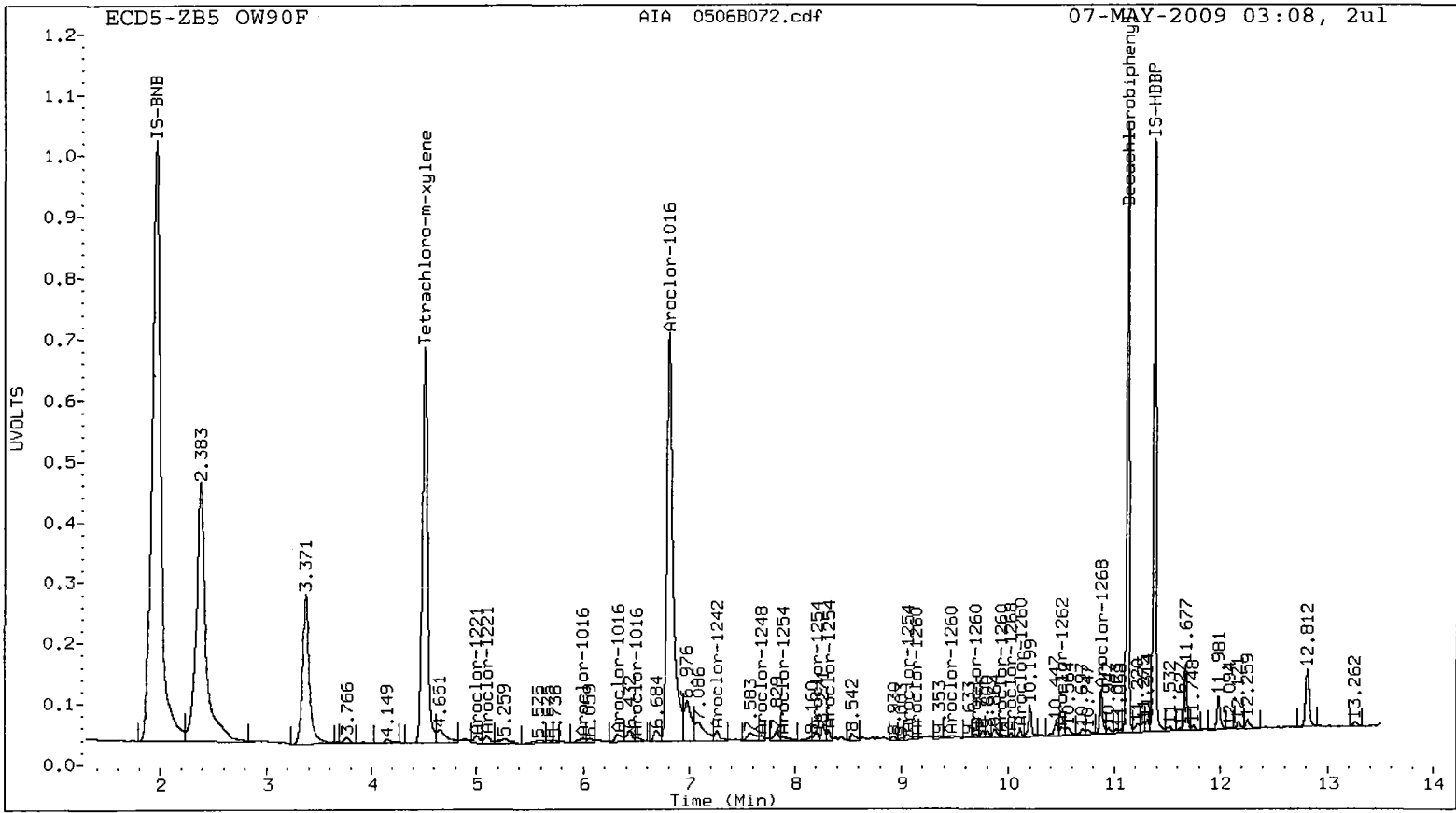
Total PCB Area Col2 (5.245 - 11.743) = 23102422

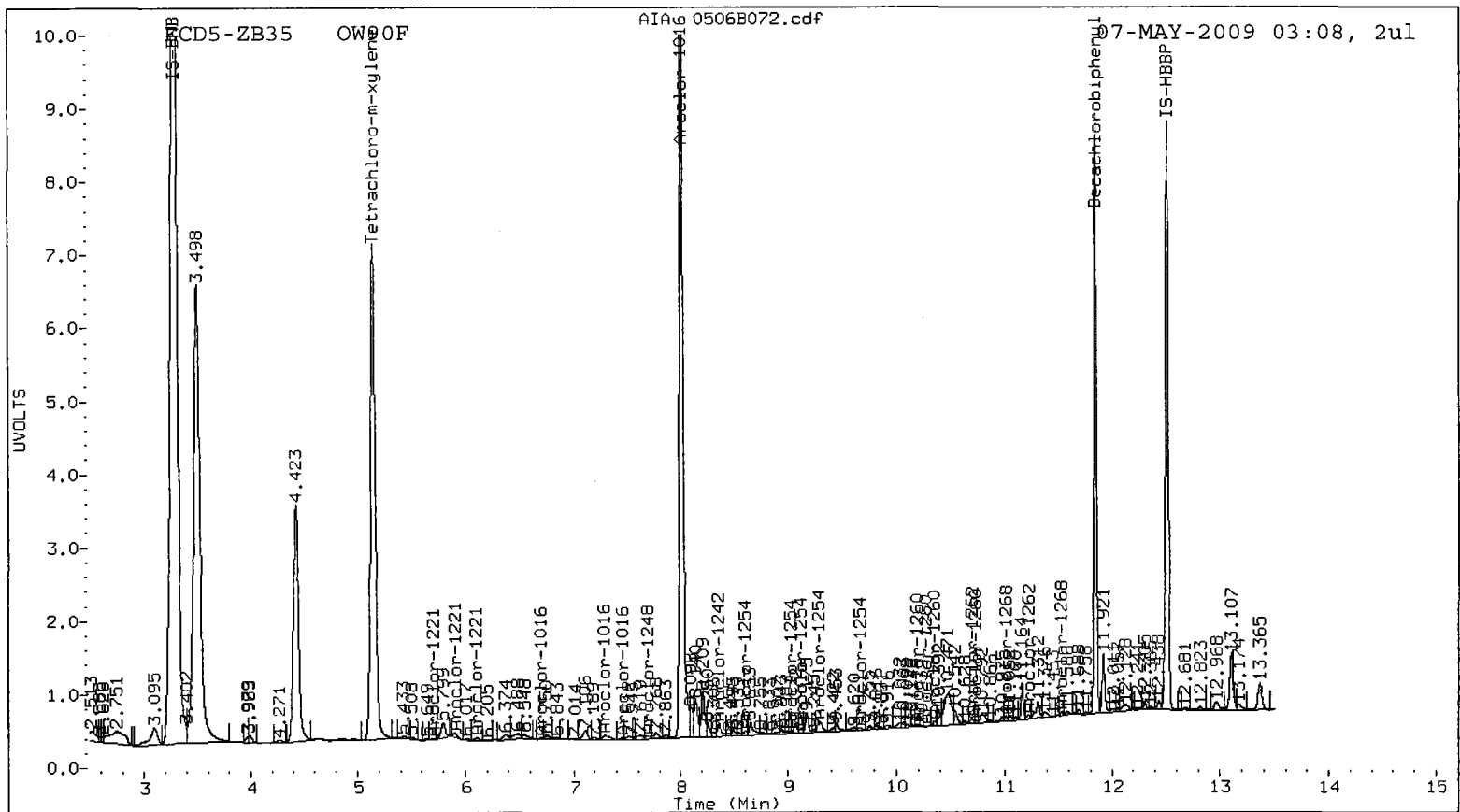
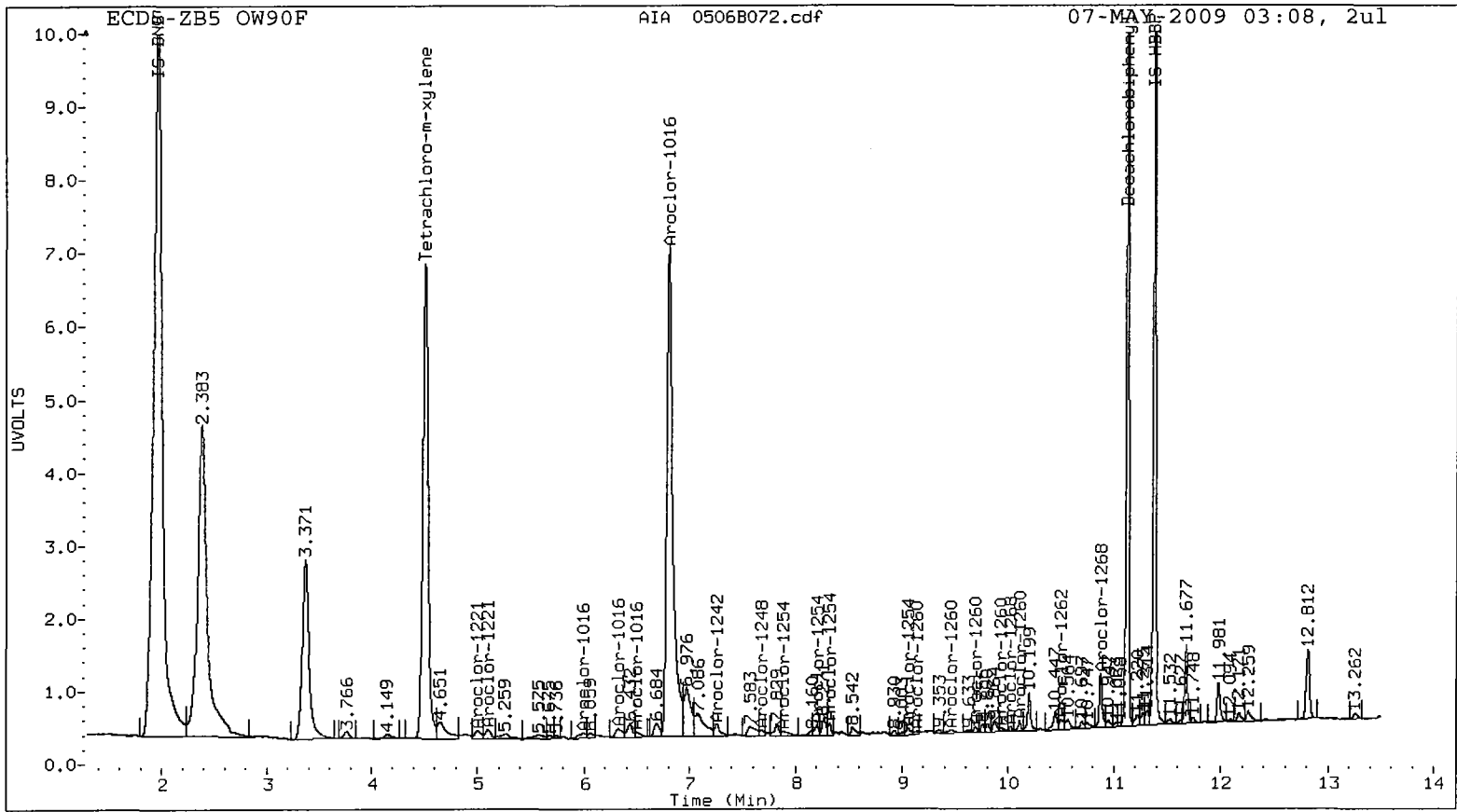
Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0450 : 00360





PCB Analysis
Standard Raw Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

6F
8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 05/06/09

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	4.41- 4.61	1.1644	0.9497	1.0647	0.9987	1.0462	1.0447	7.7
DCB	11.02-11.22	3.7282	2.6908	2.5394	2.3888	2.5097	2.7714	19.7

Aroclor-1016		LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak	RT WIN	.02	0.1	.25	0.5	1.0		
1	5.89- 6.09	0.0303	0.0252	0.0274	0.0250	0.0229	0.0262	10.7
2	6.27- 6.47	0.0811	0.0750	0.0769	0.0738	0.0712	0.0756	4.9
3	6.41- 6.61	0.0419	0.0384	0.0368	0.0341	0.0313	0.0365	11.1
4	6.72- 6.92	0.0240	0.0208	0.0229	0.0210	0.0197	0.0217	8.0

AROCLOR AVERAGE %RSD = 8.7

Aroclor-1260		LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak	RT WIN	.02	0.1	.25	0.5	1.0		
1	9.11- 9.31	0.1745	0.1551	0.1495	0.1388	0.1386	0.1513	9.8
2	9.34- 9.54	0.1598	0.1438	0.1401	0.1309	0.1316	0.1412	8.3
3	9.59- 9.79	0.3865	0.3456	0.3547	0.3382	0.3237	0.3498	6.7
4	9.87-10.07	0.1865	0.1690	0.1627	0.1599	0.1619	0.1680	6.5
5	9.99-10.19	0.0923	0.0877	0.0853	0.0830	0.0826	0.0862	4.6

AROCLOR AVERAGE %RSD = 7.2

6F
8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 05/06/09

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	5.04- 5.24	1.1230	0.9987	0.9442	0.9214	0.9906	0.9956	7.8
DCB	11.74-11.94	2.8504	2.3802	2.2211	2.1326	2.3348	2.3838	11.7

Aroclor-1016		LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak	RT WIN	.02	0.1	.25	0.5	1.0		
1	6.60- 6.80	0.0490	0.0423	0.0348	0.0323	0.0319	0.0381	19.4
2	7.18- 7.38	0.0892	0.0744	0.0686	0.0650	0.0659	0.0726	13.7
3	7.37- 7.57	0.0360	0.0323	0.0287	0.0266	0.0257	0.0299	14.3
4	7.94- 8.14	0.0287	0.0230	0.0209	0.0195	0.0197	0.0224	17.0

AROCLOR AVERAGE %RSD = 16.1

Aroclor-1260		LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak	RT WIN	.02	0.1	.25	0.5	1.0		
1	10.09-10.29	0.1632	0.1295	0.1233	0.1201	0.1280	0.1328	13.1
2	10.16-10.36	0.1185	0.0975	0.0921	0.0888	0.0939	0.0982	12.0
3	10.24-10.44	0.3598	0.2953	0.2899	0.2863	0.3109	0.3084	9.8
4	10.65-10.85	0.2366	0.1811	0.1735	0.1701	0.1814	0.1885	14.5

AROCLOR AVERAGE %RSD = 12.4

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 05/06/09

Aroclor-1221			
Peak	RT	RT WIN	Cal Factor
1	4.835	4.73- 4.93	0.01114
2	4.996	4.90- 5.10	0.00730
3	5.093	4.99- 5.19	0.02727
Aroclor-1232			
Peak	RT	RT WIN	Cal Factor
1	5.097	5.00- 5.20	0.02483
2	5.990	5.89- 6.09	0.01141
3	6.373	6.27- 6.47	0.03341
4	6.512	6.41- 6.61	0.01674
Aroclor-1242			
Peak	RT	RT WIN	Cal Factor
1	5.990	5.89- 6.09	0.02411
2	6.371	6.27- 6.47	0.06713
3	6.510	6.41- 6.61	0.03288
4	7.271	7.17- 7.37	0.02973
Aroclor-1248			
Peak	RT	RT WIN	Cal Factor
1	6.366	6.27- 6.47	0.04345
2	6.818	6.72- 6.92	0.03213
3	7.269	7.17- 7.37	0.04372
4	7.645	7.54- 7.74	0.07661

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 05/06/09

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	7.642	7.54- 7.74	0.06322
2	7.895	7.79- 7.99	0.06119
3	8.197	8.10- 8.30	0.03813
4	8.304	8.20- 8.40	0.07471
5	9.061	8.96- 9.16	0.06442

Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	9.439	9.34- 9.54	0.20108
2	9.685	9.58- 9.78	0.46815
3	9.965	9.87-10.07	0.15007
4	10.083	9.98-10.18	0.20667
5	10.520	10.42-10.62	0.14020

Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	10.032	9.93-10.13	0.56370
2	10.082	9.98-10.18	0.53335
3	10.342	10.24-10.44	0.40019
4	10.852	10.75-10.95	0.97625

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 05/06/09

Aroclor-1221				Cal
Peak	RT	RT WIN		Factor
1	5.739	5.64- 5.84		0.01269
2	5.961	5.86- 6.06		0.00734
3	6.067	5.97- 6.17		0.02373
4	6.718	6.62- 6.82		0.00811
Aroclor-1232				Cal
Peak	RT	RT WIN		Factor
1	6.067	5.97- 6.17		0.02248
2	6.704	6.60- 6.80		0.01782
3	7.278	7.18- 7.38		0.03150
4	7.469	7.37- 7.57		0.01367
Aroclor-1242				Cal
Peak	RT	RT WIN		Factor
1	6.701	6.60- 6.80		0.03136
2	7.277	7.18- 7.38		0.06043
3	7.469	7.37- 7.57		0.02542
4	8.381	8.28- 8.48		0.02259
Aroclor-1248				Cal
Peak	RT	RT WIN		Factor
1	7.273	7.17- 7.37		0.03949
2	7.684	7.58- 7.78		0.02339
3	8.040	7.94- 8.14		0.02940
4	8.380	8.28- 8.48		0.03899

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 05/06/09

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	8.608	8.51- 8.71	0.04089
2	9.007	8.91- 9.11	0.02824
3	9.116	9.02- 9.22	0.06095
4	9.276	9.18- 9.38	0.06157
5	9.667	9.57- 9.77	0.03903

Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	10.186	10.09-10.29	0.17811
2	10.345	10.25-10.45	0.38878
3	10.698	10.60-10.80	0.15672
4	10.746	10.65-10.85	0.24025
5	11.212	11.11-11.31	0.12077

Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	10.697	10.60-10.80	0.45532
2	10.745	10.64-10.84	0.42361
3	11.015	10.91-11.11	0.31889
4	11.548	11.45-11.65	0.89578

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB1.m
 Cal Date : 07-May-2009 10:39 peter
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd5.i/20090506.b/ical-1.b/0506B030.d
 Level 2: /chem2/ecd5.i/20090506.b/ical-1.b/0506B032.d
 Level 3: /chem2/ecd5.i/20090506.b/ical-1.b/0506B029.d
 Level 4: /chem2/ecd5.i/20090506.b/ical-1.b/0506B033.d
 Level 5: /chem2/ecd5.i/20090506.b/ical-1.b/0506B031.d
 Level 6: /chem2/ecd5.i/20090506.b/ddt-1.b/0506B040.d
 Level 7: /chem2/ecd5.i/20090506.b/ical-1.b/0506B039.d

Compound	20.000	100.000	250.000	500.000	1000.000	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000							
	Level 7							
2 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.01114						0.01114	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.00730						0.00730	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02727						0.02727	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02411						0.02411	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.06713						0.06713	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03288						0.03288	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB1.m
 Cal Date : 07-May-2009 10:39 peter
 Curve Type : Average

Compound	20.000	100.000	250.000	500.000	1000.000	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000							
	Level 7							
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.02973	0.000
	0.02973							
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02483	0.000
	0.02483							
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01141	0.000
	0.01141							
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.03341	0.000
	0.03341							
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.01674	0.000
	0.01674							
7 Aroclor-1016(1)	0.03030	0.02524	0.02740	0.02504	0.02292	+++++	0.02618	10.684
	+++++							
(2)	0.08108	0.07503	0.07693	0.07385	0.07115	+++++	0.07561	4.901
	+++++							
(3)	0.04194	0.03836	0.03682	0.03411	0.03129	+++++	0.03651	11.130
	+++++							
(4)	0.02401	0.02078	0.02289	0.02098	0.01969	+++++	0.02167	8.049
	+++++							

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB1.m
 Cal Date : 07-May-2009 10:39 peter
 Curve Type : Average

Compound	20.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	0.000e+00 Level 6	RRF	% RSD
6 Aroclor-1248(1)	+++++ 0.04345	+++++	+++++	+++++	+++++	+++++	0.04345	0.000
(2)	+++++ 0.03213	+++++	+++++	+++++	+++++	+++++	0.03213	0.000
(3)	+++++ 0.04372	+++++	+++++	+++++	+++++	+++++	0.04372	0.000
(4)	+++++ 0.07661	+++++	+++++	+++++	+++++	+++++	0.07661	0.000
8 Aroclor-1254(1)	+++++ 0.06322	+++++	+++++	+++++	+++++	+++++	0.06322	0.000
(2)	+++++ 0.06119	+++++	+++++	+++++	+++++	+++++	0.06119	0.000
(3)	+++++ 0.03813	+++++	+++++	+++++	+++++	+++++	0.03813	0.000
(4)	+++++ 0.07471	+++++	+++++	+++++	+++++	+++++	0.07471	0.000
(5)	+++++ 0.06442	+++++	+++++	+++++	+++++	+++++	0.06442	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB1.m
 Cal Date : 07-May-2009 10:39 peter
 Curve Type : Average

Compound	20.000	100.000	250.000	500.000	1000.000	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000							
	Level 7							
9 Aroclor-1260 (1)	0.17453 ++++	0.15506	0.14953	0.13877	0.13857	++++	0.15129	9.781
(2)	0.15982 ++++	0.14380	0.14005	0.13089	0.13161	++++	0.14124	8.326
(3)	0.38648 ++++	0.34561	0.35474	0.33819	0.32374	++++	0.34975	6.708
(4)	0.18646 ++++	0.16903	0.16271	0.15988	0.16186	++++	0.16799	6.478
(5)	0.09225 ++++	0.08773	0.08532	0.08302	0.08259	++++	0.08618	4.602
10 Aroclor-1262 (1)	++++ 0.20108	++++	++++	++++	++++	++++	0.20108	0.000
(2)	++++ 0.46815	++++	++++	++++	++++	++++	0.46815	0.000
(3)	++++ 0.15007	++++	++++	++++	++++	++++	0.15007	0.000
(4)	++++ 0.20667	++++	++++	++++	++++	++++	0.20667	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB1.m
 Cal Date : 07-May-2009 10:39 peter
 Curve Type : Average

Compound	20.000	100.000	250.000	500.000	1000.000	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000							
	Level 7							
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.14020						0.14020	0.000
11 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.56370						0.56370	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.53335						0.53335	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.40019						0.40019	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.97625						0.97625	0.000
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	849		
	+++++						849	0.000
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	901		
	+++++						901	0.000
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	1004		
	+++++						1004	0.000
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	1332		
	+++++						1332	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB1.m
 Cal Date : 07-May-2009 10:39 peter
 Curve Type : Average

Compound	20.000	100.000	250.000	500.000	1000.000	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000							
	Level 7							
47 4,4-DDD	++++	++++	++++	++++	++++	1155	1155	0.000
48 4,4-DDT	++++	++++	++++	++++	++++	977	977	0.000
\$ 1 Tetrachloro-m-xylene	1.16444	0.94966	1.06473	0.99870	1.04619	++++	1.04474	7.701
\$ 13 Decachlorobiphenyl	3.72824	2.69079	2.53940	2.38878	2.50975	++++	2.77139	19.687

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB2.m
 Cal Date : 07-May-2009 10:35 peter
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd5.i/20090506.b/ical-2.b/0506B030.d
 Level 2: /chem2/ecd5.i/20090506.b/ical-2.b/0506B032.d
 Level 3: /chem2/ecd5.i/20090506.b/ical-2.b/0506B029.d
 Level 4: /chem2/ecd5.i/20090506.b/ical-2.b/0506B033.d
 Level 5: /chem2/ecd5.i/20090506.b/ical-2.b/0506B031.d
 Level 6: /chem2/ecd5.i/20090506.b/ddt-2.b/0506B040.d
 Level 7: /chem2/ecd5.i/20090506.b/ddt-2.b/0506B040.d

Compound	20.000	100.000	250.000	500.000	1000.000	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000							
	Level 7							
1 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.01269						0.01269	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.00734						0.00734	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02373						0.02373	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.00811						0.00811	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02248						0.02248	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.01782						0.01782	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB2.m
 Cal Date : 07-May-2009 10:35 peter
 Curve Type : Average

Compound	20.000	100.000	250.000	500.000	1000.000	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000							
	Level 7							
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03150						0.03150	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.01367						0.01367	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03136						0.03136	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.06043						0.06043	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02542						0.02542	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02259						0.02259	0.000
6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03949						0.03949	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02339						0.02339	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02940						0.02940	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB2.m
 Cal Date : 07-May-2009 10:35 peter
 Curve Type : Average

Compound	20.000	100.000	250.000	500.000	1000.000	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000							
	Level 7							
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03899						0.03899	0.000
7 Aroclor-1016(1)	0.04895	0.04232	0.03484	0.03229	0.03187	+++++	0.03806	19.432
	+++++							
(2)	0.08923	0.07436	0.06856	0.06498	0.06593	+++++	0.07261	13.749
	+++++							
(3)	0.03604	0.03231	0.02867	0.02662	0.02572	+++++	0.02987	14.317
	+++++							
(4)	0.02867	0.02304	0.02088	0.01954	0.01967	+++++	0.02236	16.983
	+++++							
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.04089						0.04089	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.02824	0.000
	0.02824							
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.06095	0.000
	0.06095							
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.06157	0.000
	0.06157							

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB2.m
 Cal Date : 07-May-2009 10:35 peter
 Curve Type : Average

Compound	20.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	0.000e+00 Level 6	RRF	% RSD
(5)	++++ 0.03903	++++	++++	++++	++++	++++	0.03903	0.000
10 Aroclor-1262(1)	++++ 0.17811	++++	++++	++++	++++	++++	0.17811	0.000
(2)	++++ 0.38878	++++	++++	++++	++++	++++	0.38878	0.000
(3)	++++ 0.15672	++++	++++	++++	++++	++++	0.15672	0.000
(4)	++++ 0.24025	++++	++++	++++	++++	++++	0.24025	0.000
(5)	++++ 0.12077	++++	++++	++++	++++	++++	0.12077	0.000
9 Aroclor-1260(1)	0.16321 ++++	0.12955	0.12332	0.12013	0.12799	++++	0.13284	13.086
(2)	0.11852 ++++	0.09752	0.09205	0.08878	0.09387	++++	0.09815	12.040
(3)	0.35975 ++++	0.29527	0.28989	0.28633	0.31091	++++	0.30843	9.788

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB2.m
 Cal Date : 07-May-2009 10:35 peter
 Curve Type : Average

Compound	20.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	0.000e+00 Level 6	RRF	% RSD
(4)	0.23663 ++++	0.18108	0.17345	0.17010	0.18142	++++	0.18854	14.493
11 Aroclor-1268(1)	++++ 0.45532	++++	++++	++++	++++	++++	0.45532	0.000
(2)	++++ 0.42361	++++	++++	++++	++++	++++	0.42361	0.000
(3)	++++ 0.31889	++++	++++	++++	++++	++++	0.31889	0.000
(4)	++++ 0.89578	++++	++++	++++	++++	++++	0.89578	0.000
41 2,4-DDE	++++ ++++	++++	++++	++++	++++	765	765	0.000
42 2,4-DDD	++++ ++++	++++	++++	++++	++++	756	756	0.000
44 4,4-DDE	++++ ++++	++++	++++	++++	++++	1229	1229	0.000
45 4,4-DDD/2,4-DDT	++++ ++++	++++	++++	++++	++++	1001	1001	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2009 14:51
 End Cal Date : 06-MAY-2009 17:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090506.b/PCB2.m
 Cal Date : 07-May-2009 10:35 peter
 Curve Type : Average

Compound	20.000	100.000	250.000	500.000	1000.000	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000							
	Level 7							
46 4,4-DDT	+++++	+++++	+++++	+++++	+++++	873	873	0.000
\$ 2 Tetrachloro-m-xylene	1.12300	0.99867	0.94420	0.92136	0.99065	+++++	0.99558	7.848
\$ 13 Decachlorobiphenyl	2.85041	2.38018	2.22113	2.13256	2.33478	+++++	2.38381	11.673

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B028.d
Data file 2: 20090506.b/ical-2.b/0506B028.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 06-MAY-2009 14:34
Report Date: 05/07/2009 11:15
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.505	-0.001	13191253	5.148	0.002	11369729	40.1	39.3	2.1	Tetrachloro-m-xylene
11.120	0.001	7987495	11.845	0.001	7005529	35.8	37.1	3.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	100.2	98.2
Decachlorobiphenyl	89.5	92.7

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	25196780	-5.4
Hexabromobiphenyl	6745626	6438678	-4.6

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	23270331	-6.8
Hexabromobiphenyl	6589208	6341968	-3.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	5.788	0.049	148038	40.1
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	6.107	0.040	32760	4.7
Aroclor-1221	NS	---			----	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	6.107	0.040	32760	5.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	7.310	0.032	14049	1.5
Aroclor-1232	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	7.310	0.032	14049	0.8
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	8.379	-0.002	22940	3.5
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	7.310	0.036	14049	1.2
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	8.379	-0.004	22940	2.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	8.611	0.003	14457	1.2
Aroclor-1254	2	---			0.0	2	8.953	-0.054	11427	1.4
Aroclor-1254	3	---			0.0	3	9.162	0.046	24074	1.4
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	9.592	-0.075	23959	2.1
CollAve: <3 Quant Peaks						Col2Ave: 1.5				
Aroclor-1260	1	---			0.0	1	10.279	0.091	10869	1.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	10.701	-0.047	10146	0.7
Aroclor-1260	5	---			0.0	NS	---			----
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	10.279	0.093	10869	0.8
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	10.701	0.002	10146	0.8
Aroclor-1262	4	---			0.0	4	---			0.0
Aroclor-1262	5	---			0.0	5	11.166	-0.046	355007	37.1
CollAve: <3 Quant Peaks						Col2Ave: 12.9				
Aroclor-1268	1	---			0.0	1	10.701	0.004	10146	0.3
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	11.002	-0.012	55820	2.2
Aroclor-1268	4	---			0.0	4	11.597	0.050	113593	1.6
CollAve: <3 Quant Peaks						Col2Ave: 1.4				

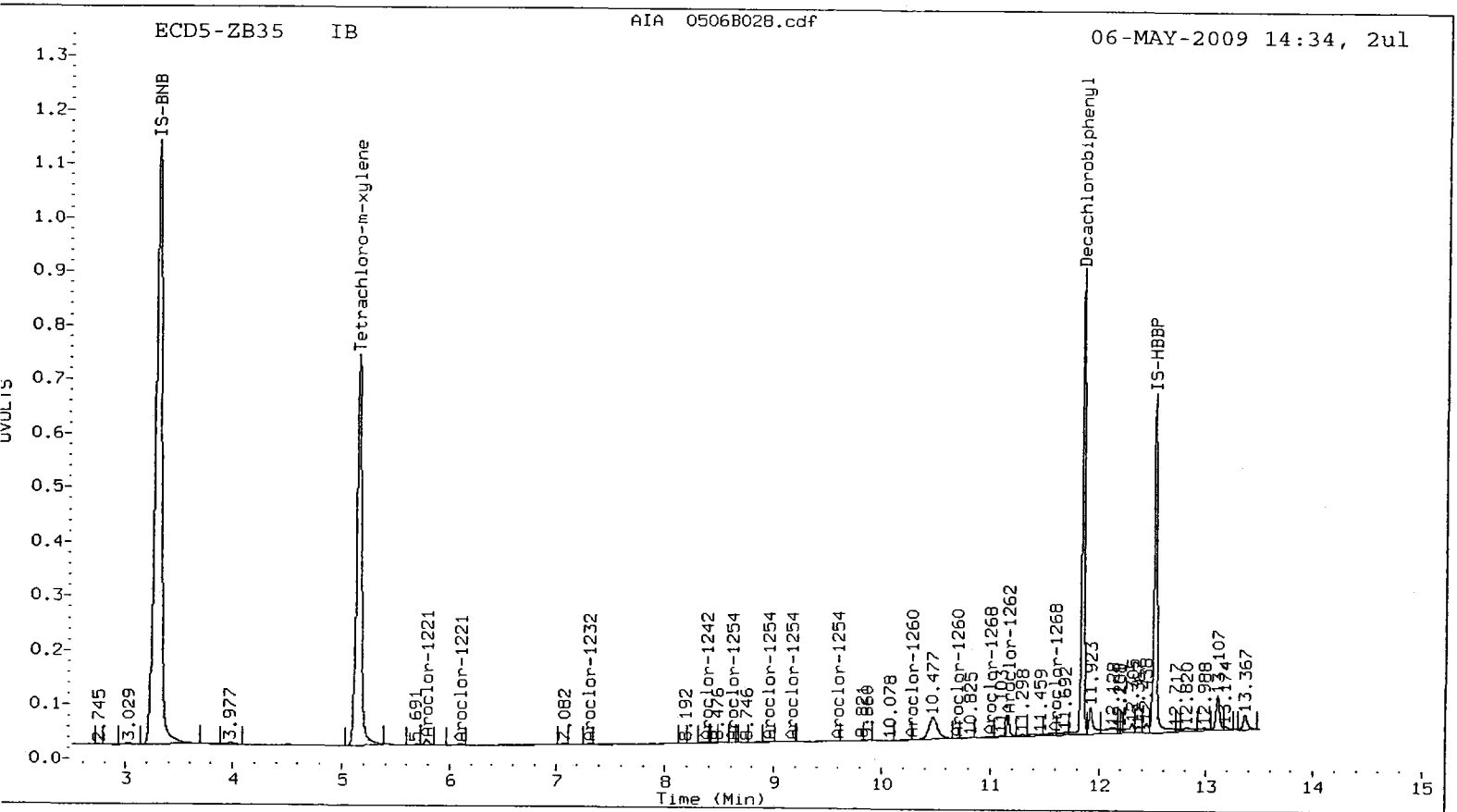
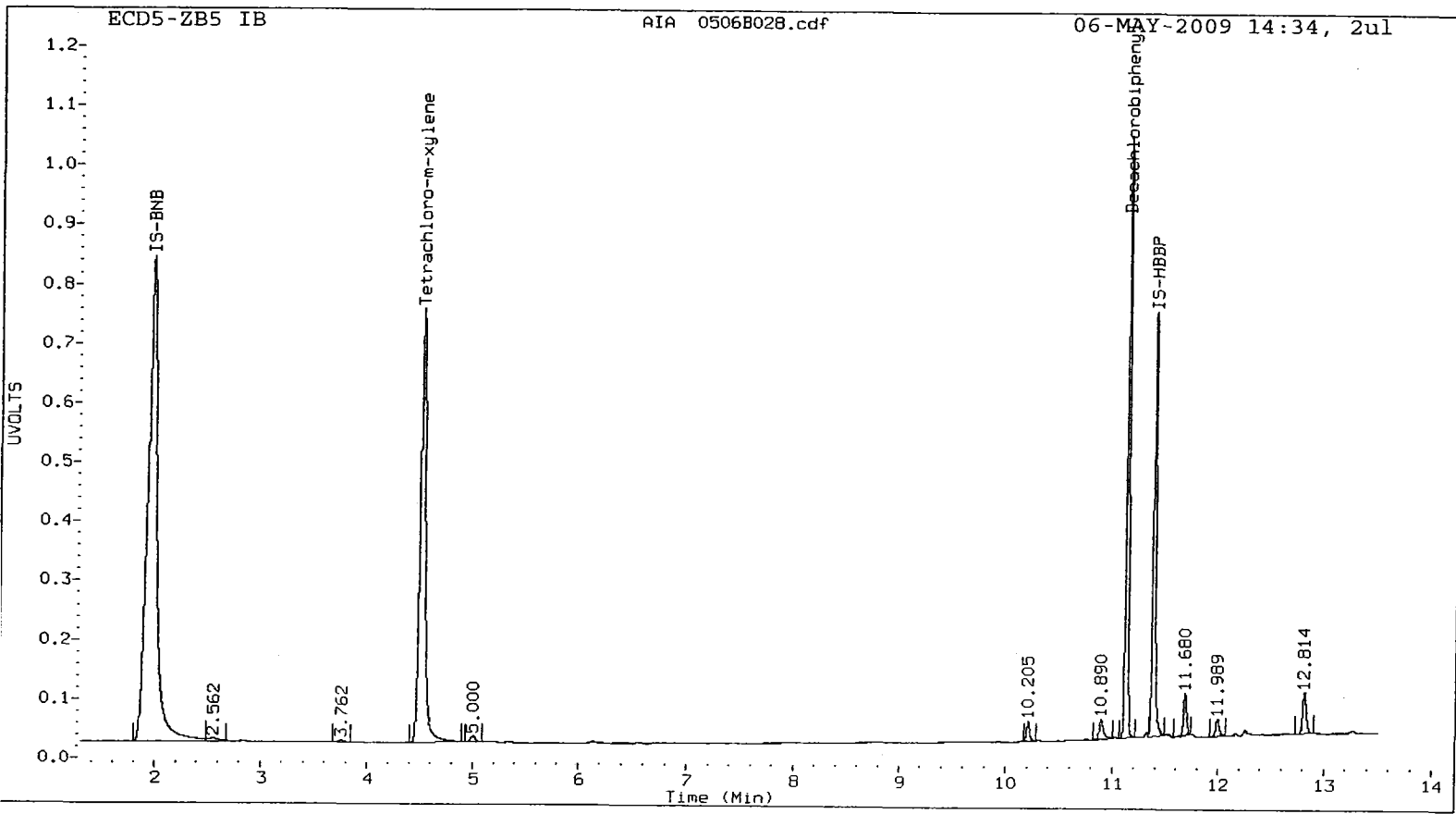
Total PCB Area Coll1 (4.607 - 11.020) = 940842

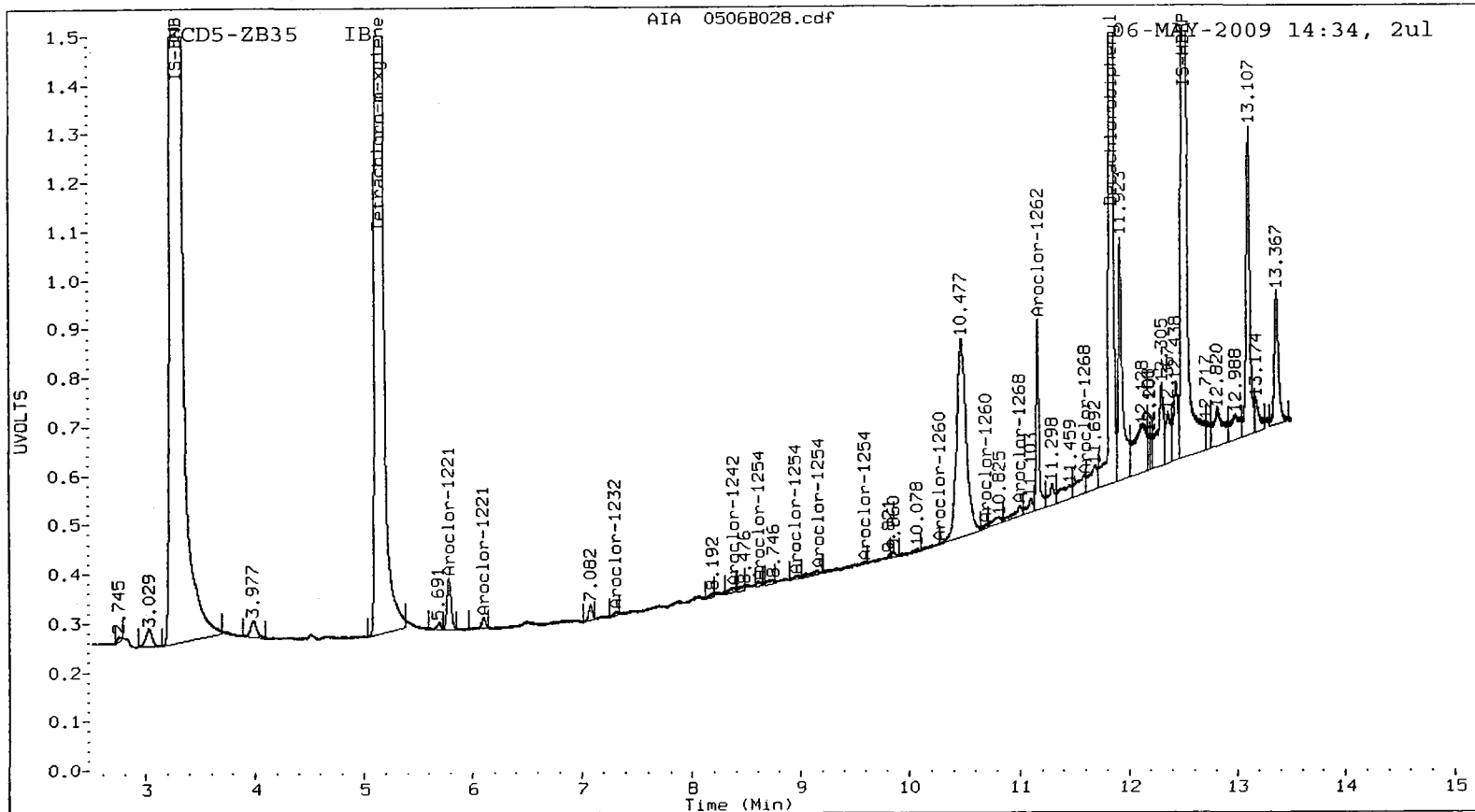
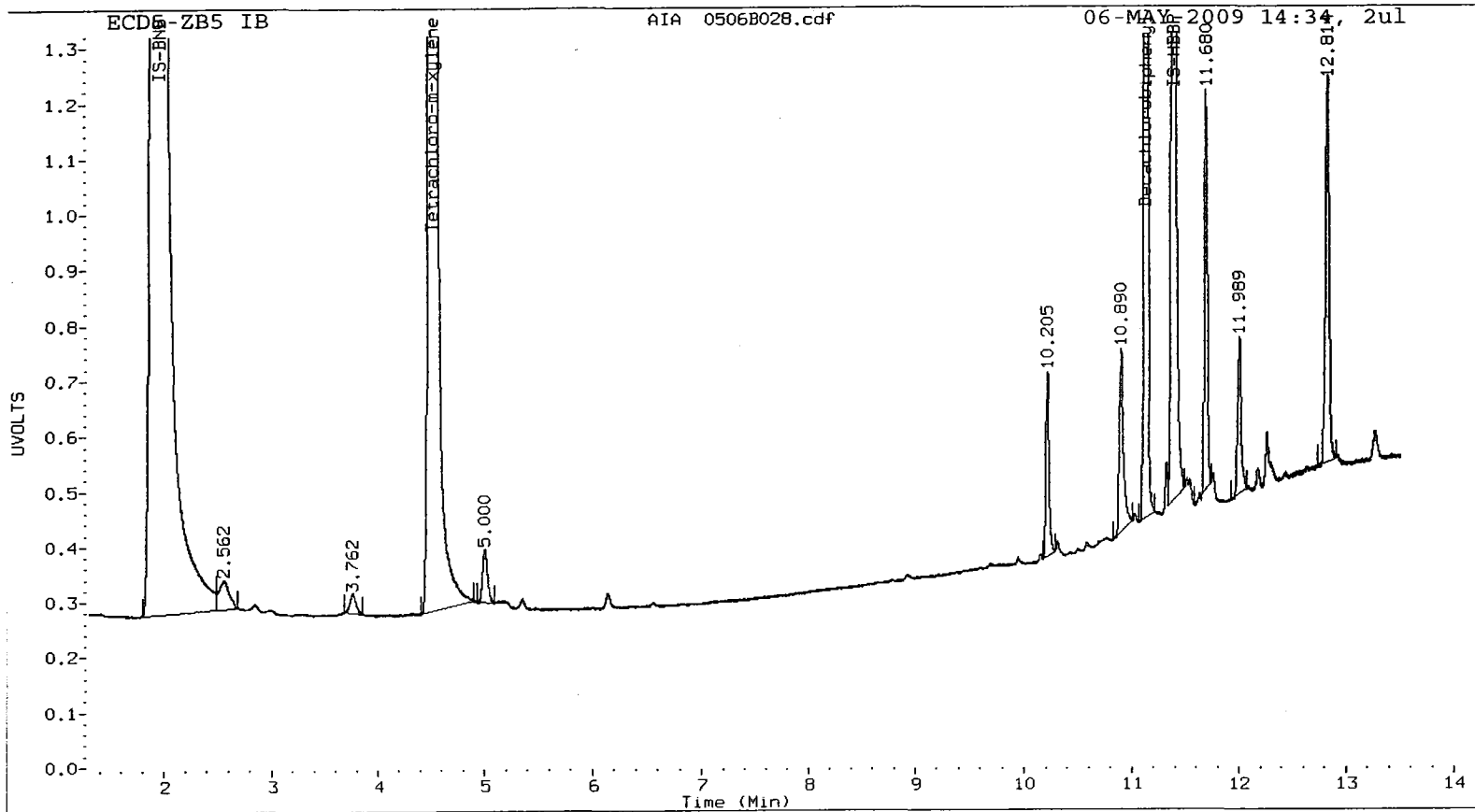
Coll1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 2553257

Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B029.d
Data file 2: 20090506.b/ical-2.b/0506B029.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25 PPM AR1660
Client ID:
Injection Date: 06-MAY-2009 14:51
Report Date: 05/07/2009 11:15
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col		RT	ZB35 Col		ZB5 on col	ZB35 on col	RPD	Compound/Flag
	Shift	Response		Shift	Response				
4.506	-0.001	7090125	5.145	0.000	5890576	20.4	19.0	7.2	Tetrachloro-m-xylene
11.120	0.001	4282466	11.845	0.001	3658866	18.3	18.6	1.7	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	51.0	47.4
Decachlorobiphenyl	45.8	46.6

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	26636297	0.0
Hexabromobiphenyl	6745626	6745626	0.0

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	24954796	0.0
Hexabromobiphenyl	6589208	6589208	0.0

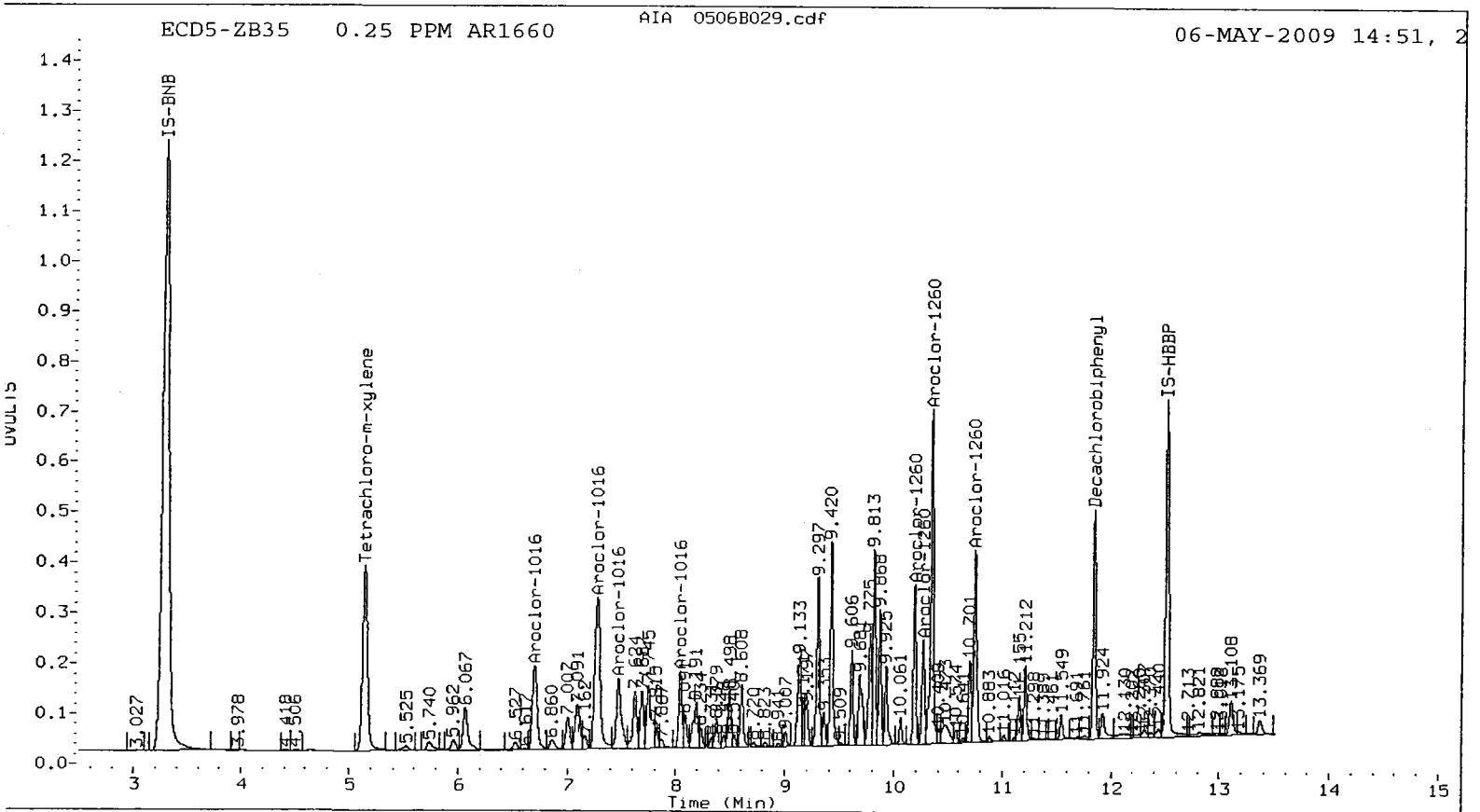
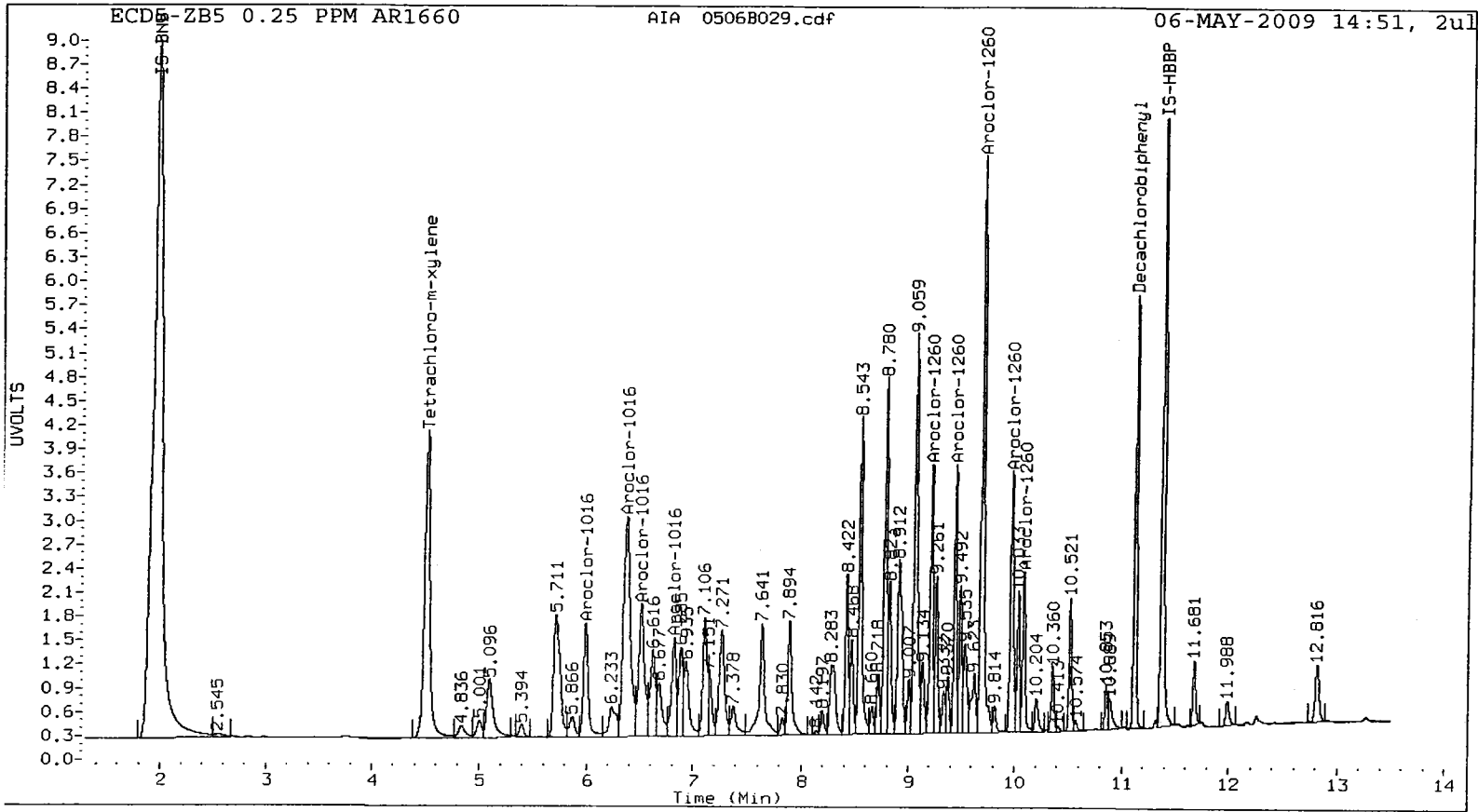
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
<- Indicates standard response outside Limits (-50 to +100%)

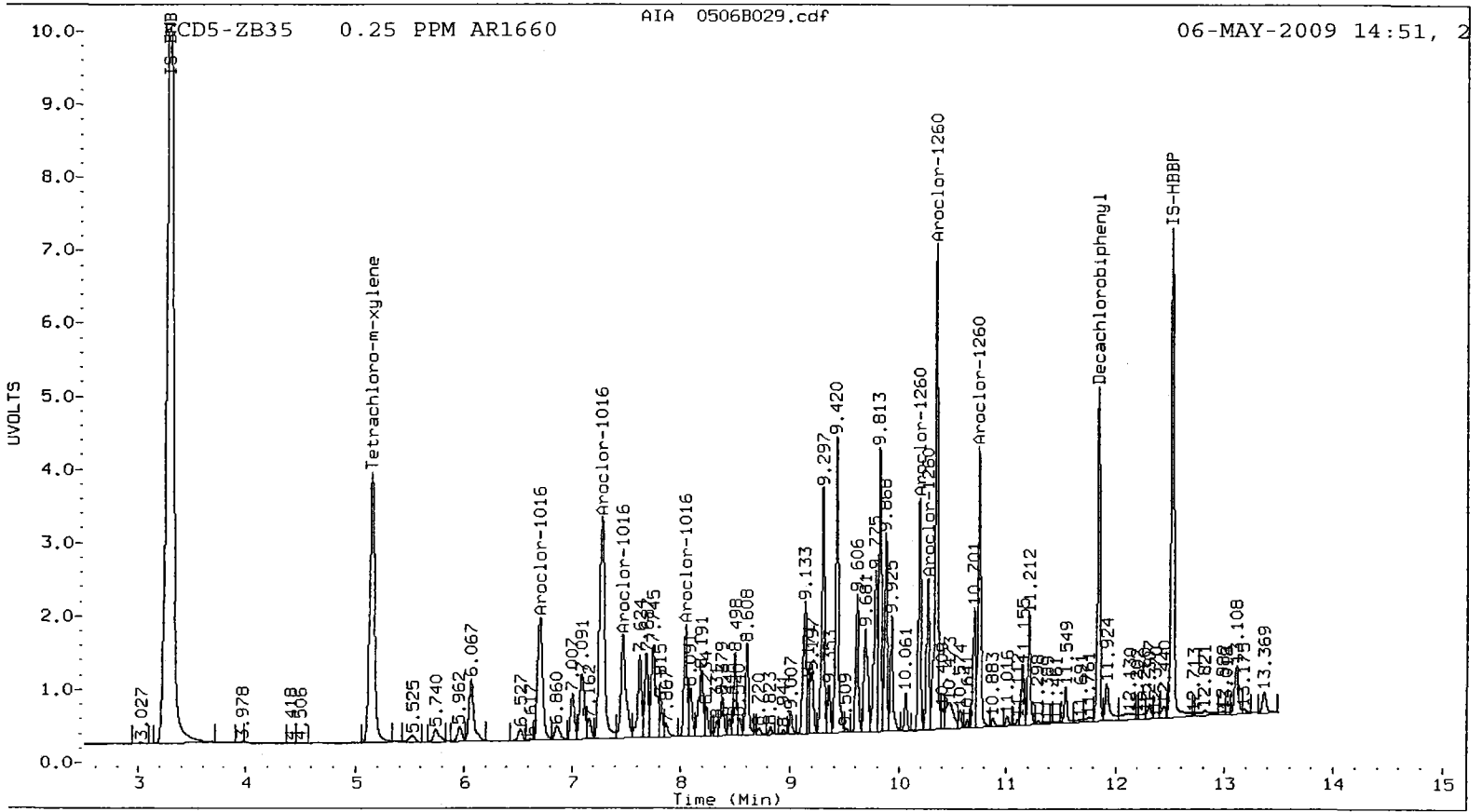
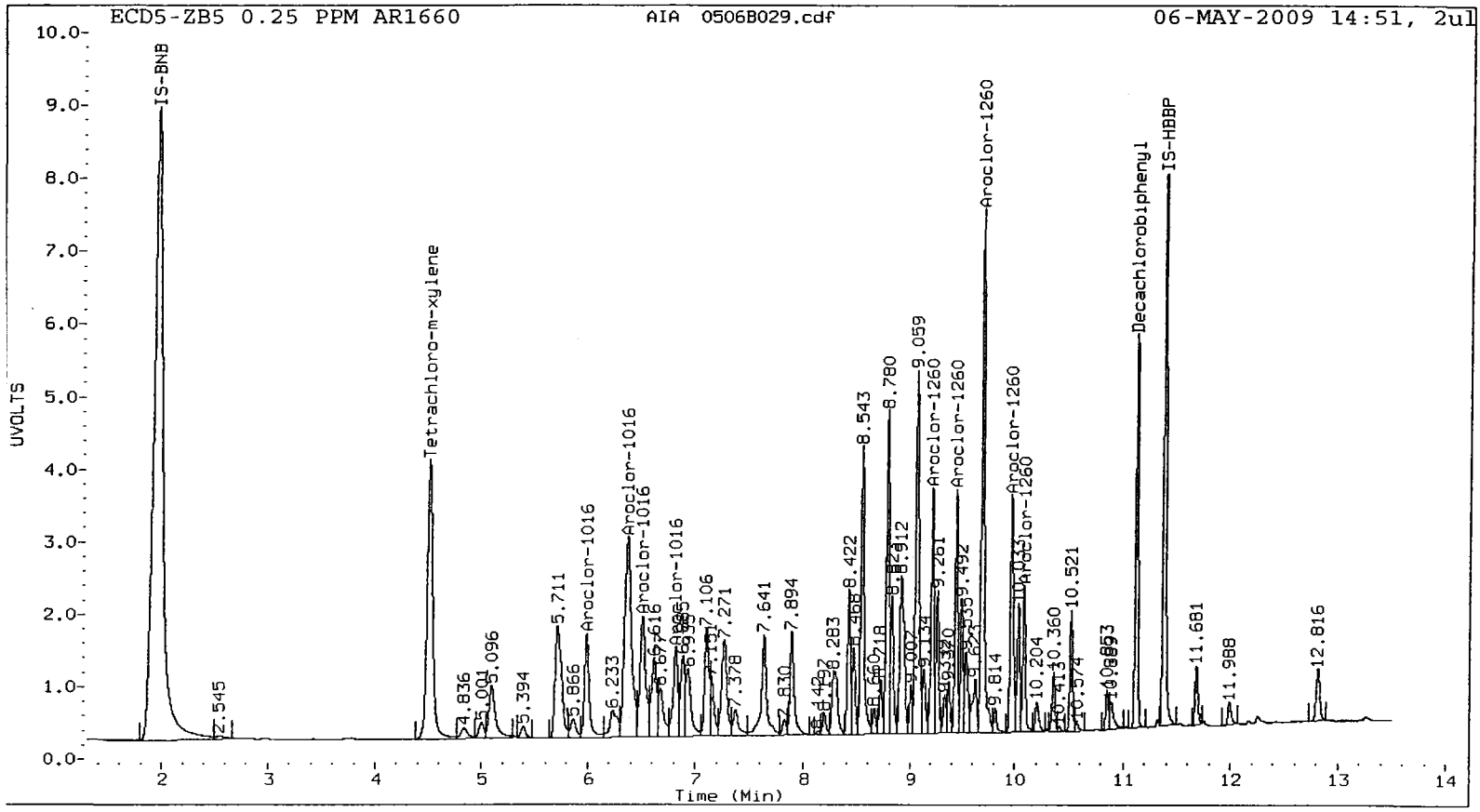
ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.989	-0.002	2280610	261.6	1	6.701	-0.001	2717060	228.9	
Aroclor-1016	2	6.371	-0.007	6403436	254.4	2	7.277	-0.001	5346553	236.0	
Aroclor-1016	3	6.509	-0.005	3065058	252.2	3	7.470	0.000	2236050	240.0	
Aroclor-1016	4	6.817	-0.004	1905346	264.1	4	8.041	-0.001	1628250	233.4	
Total Col1Ave (4 peaks):				258.1	Total Col2Ave (4 peaks):				234.6	RPD = 10	
Corrected Ave (3 peaks):				256.1	Corrected Ave (3 peaks):				232.8	RPD = 10	
Aroclor-1260	1	9.211	-0.002	3152182	247.1	1	10.187	-0.001	2539328	232.1	
Aroclor-1260	2	9.438	-0.002	2952293	247.9	2	10.266	-0.001	1895475	234.5	
Aroclor-1260	3	9.686	-0.003	7477979	253.6	3	10.346	0.000	5969248	235.0	
Aroclor-1260	4	9.965	-0.005	3429915	242.1	4	10.747	0.000	3571641	230.0	
Aroclor-1260	5	10.084	-0.001	1798551	247.5	NS	---			----	
Total Col1Ave (5 peaks):				247.6	Total Col2Ave (4 peaks):				232.9	RPD = 6	
Corrected Ave (4 peaks):				246.2	Corrected Ave (3 peaks):				232.2	RPD = 6	

Total PCB Area Col1 (4.607 - 11.020) = 96709183 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 72391948 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B030.d
Data file 2: 20090506.b/ical-2.b/0506B030.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02 PPM AR1660
Client ID:
Injection Date: 06-MAY-2009 15:08
Report Date: 05/07/2009 11:15
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.505	-0.001	586523	5.146	1.8	1.8	1.2	Tetrachloro-m-xylene
11.120	0.000	485228	11.845	2.2	1.9	11.8	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	4.5	4.5
Decachlorobiphenyl	5.4	4.8

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	25184803	-5.4
Hexabromobiphenyl	6745626	6507462	-3.5

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	23536407	-5.7
Hexabromobiphenyl	6589208	5936154	-9.9

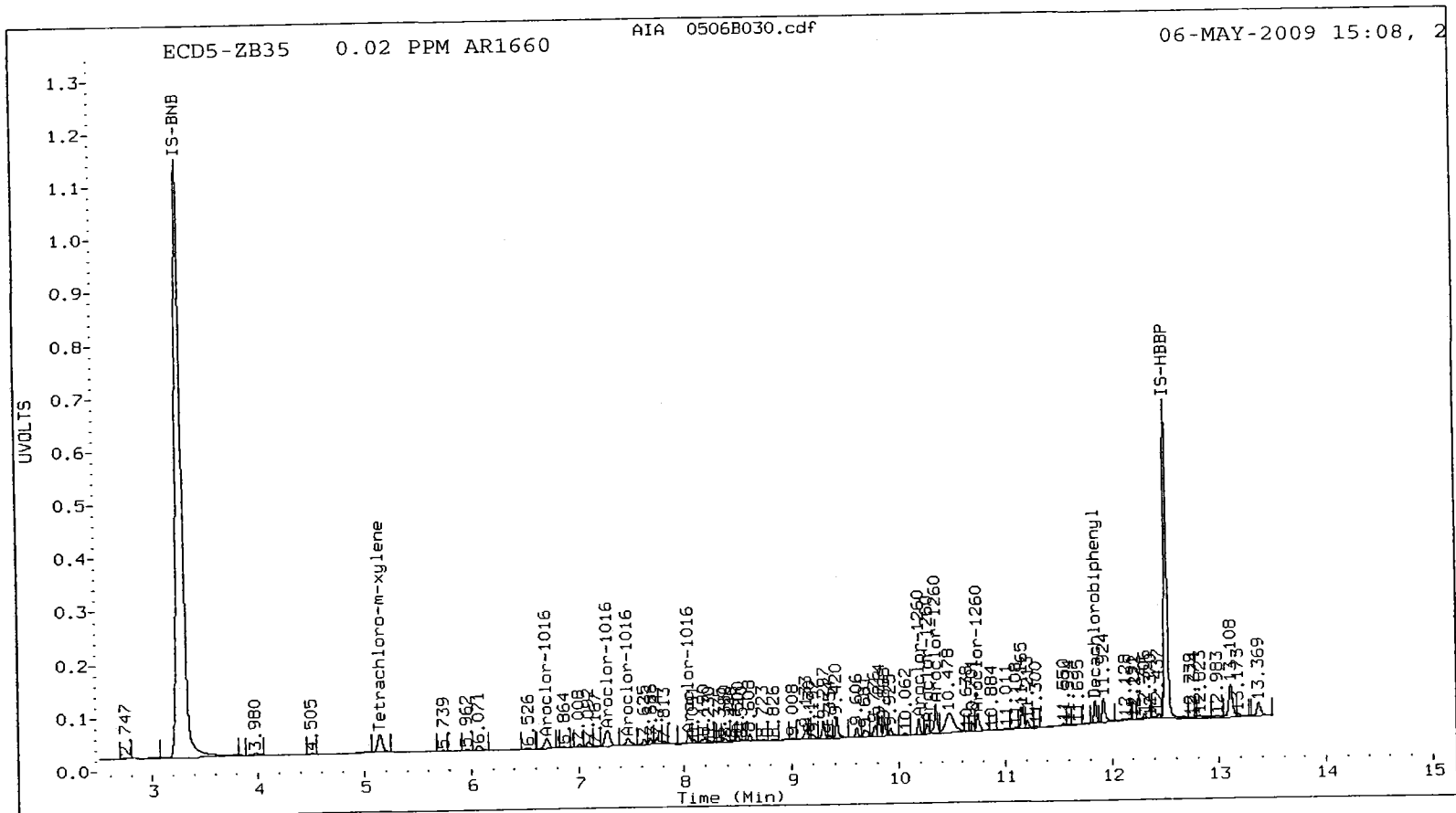
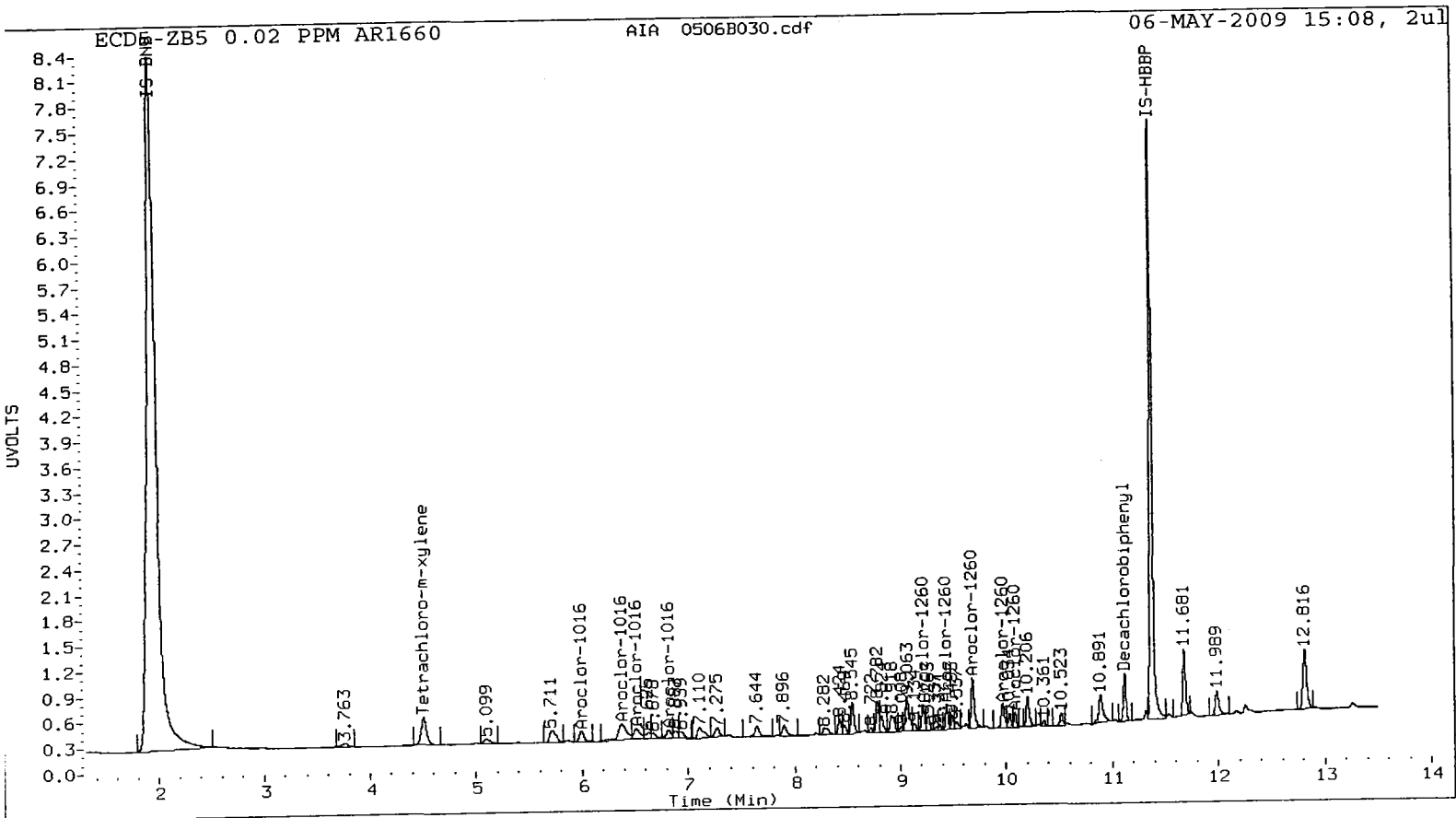
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
<- Indicates standard response outside Limits (-50 to +100%)

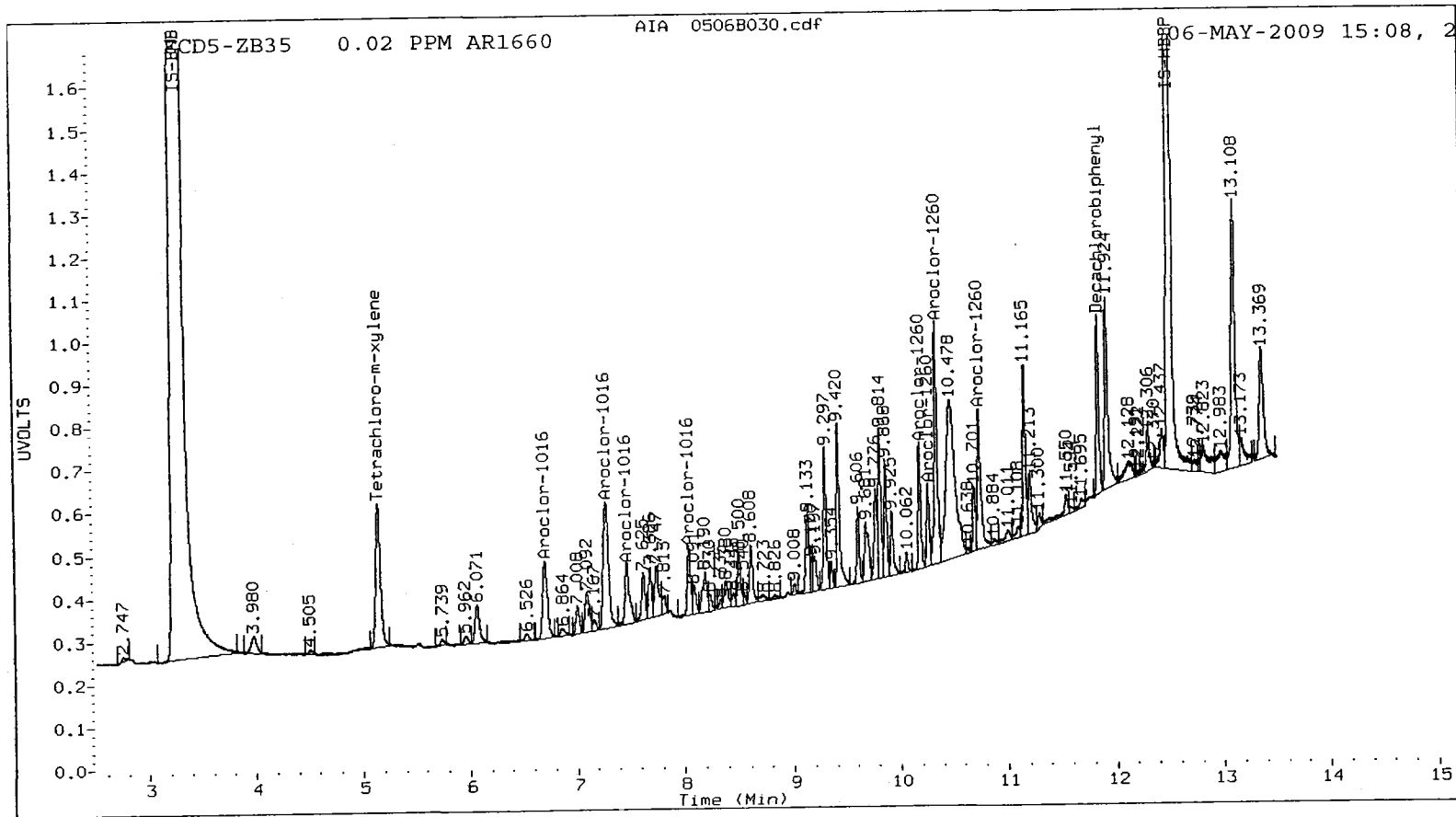
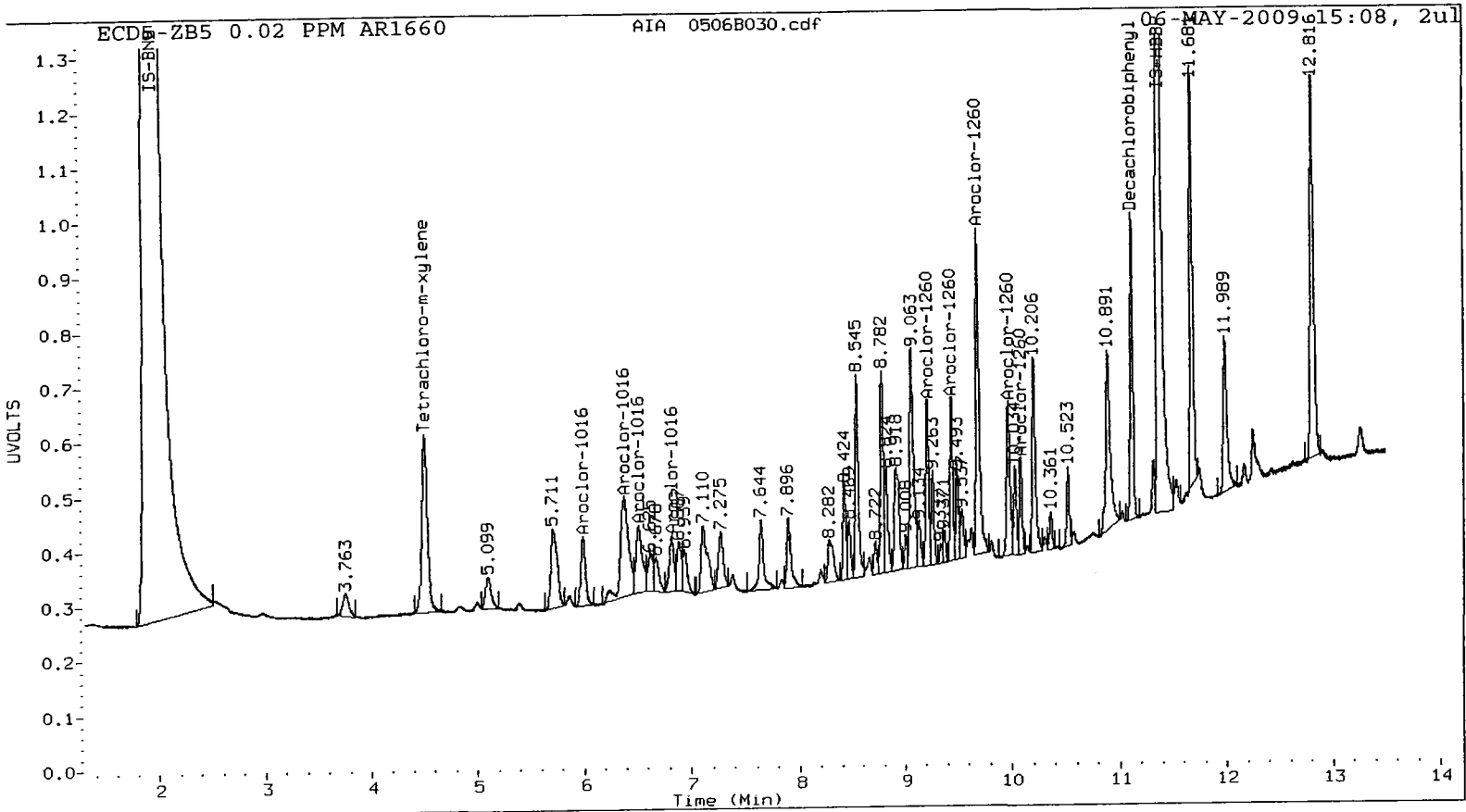
ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.991	0.000	190806	23.2	1	6.702	0.000	288029	25.7	
Aroclor-1016	2	6.378	0.000	510466	21.4	2	7.279	0.000	525066	24.6	
Aroclor-1016	3	6.514	0.000	264083	23.0	3	7.471	0.000	212052	24.1	
Aroclor-1016	4	6.822	0.000	151200	22.2	4	8.043	0.000	168714	25.6	
Total CollAve (4 peaks):				22.4	Total Col2Ave (4 peaks):				25.0	RPD = 11	
Corrected Ave (3 peaks):				22.2	Corrected Ave (3 peaks):				24.8	RPD = 11	
Aroclor-1260	1	9.213	0.000	283939	23.1	1	10.188	0.000	242212	24.6	
Aroclor-1260	2	9.440	0.000	260011	22.6	2	10.266	0.000	175890	24.2	
Aroclor-1260	3	9.689	0.000	628754	22.1	3	10.346	0.000	533889	23.3	
Aroclor-1260	4	9.970	0.000	303349	22.2	4	10.747	0.000	351166	25.1	
Aroclor-1260	5	10.085	0.000	150084	21.4	NS	---			----	
Total CollAve (5 peaks):				22.3	Total Col2Ave (4 peaks):				24.3	RPD = 9	
Corrected Ave (4 peaks):				22.1	Corrected Ave (3 peaks):				24.0	RPD = 8	

Total PCB Area Coll (4.607 - 11.020) = 8441244 Coll Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 8501646 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B031.d
 Data file 2: 20090506.b/ical-2.b/0506B031.d
 Method: /chem2/ecd5.i/20090506.b/PCB1.m
 Compound Sublist: AR1660
 Instrument, Inj. Vol.: ecd5.i, 2ul
 Quant Method: Internal Std

ARI ID: 1 PPM AR1660
 Client ID:
 Injection Date: 06-MAY-2009 15:25
 Report Date: 05/07/2009 11:15
 Matrix: SOIL
 Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.505	-0.002	27850571	5.146	0.001	24413606	80.1	79.6	0.6	Tetrachloro-m-xylene
11.120	0.000	17244615	11.845	0.001	15125429	72.4	78.4	7.8	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	200.3	199.0
Decachlorobiphenyl	181.1	195.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	26621047	-0.1
Hexabromobiphenyl	6745626	6871049	1.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	24644141	-1.2
Hexabromobiphenyl	6589208	6478316	-1.7

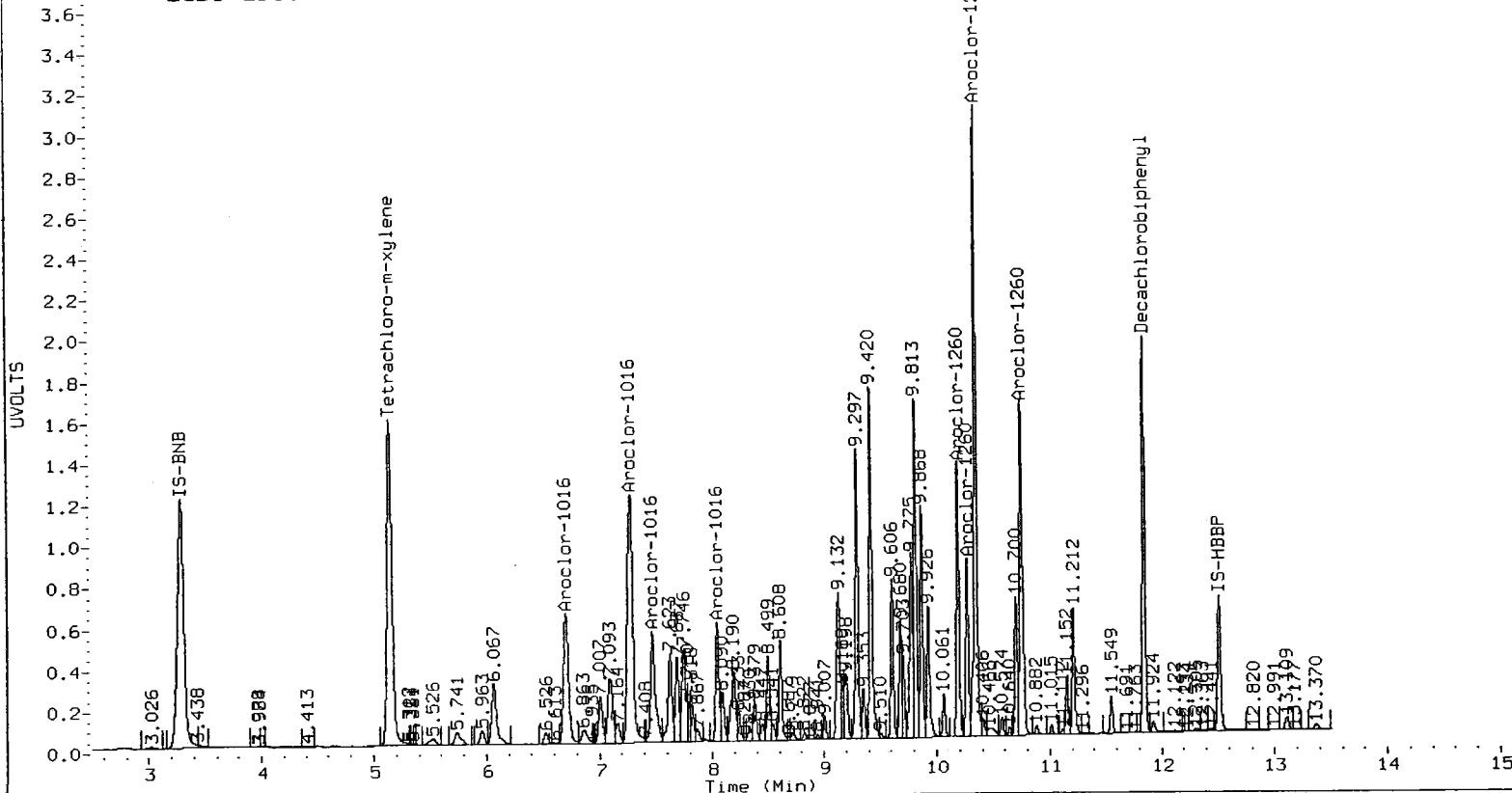
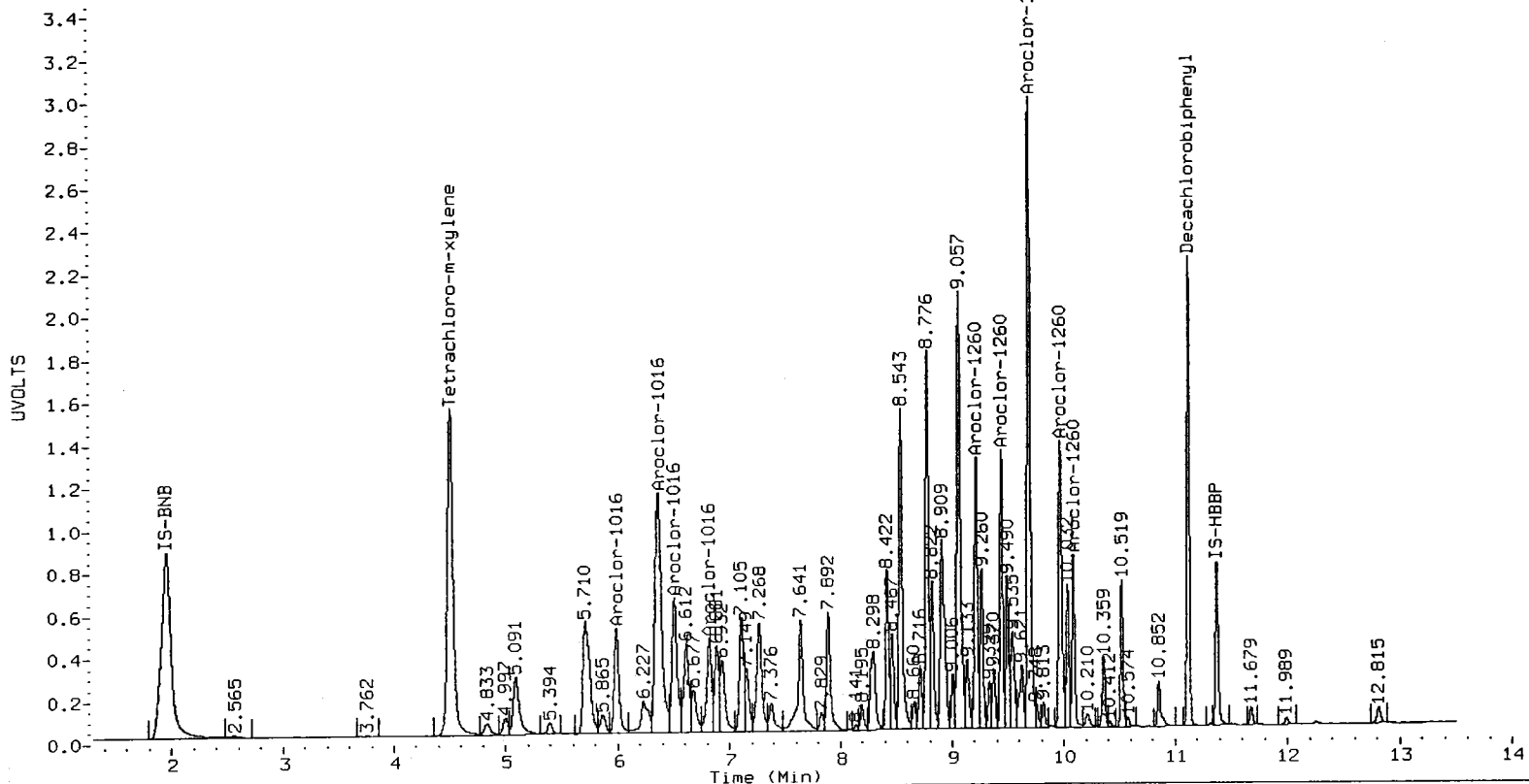
- * Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

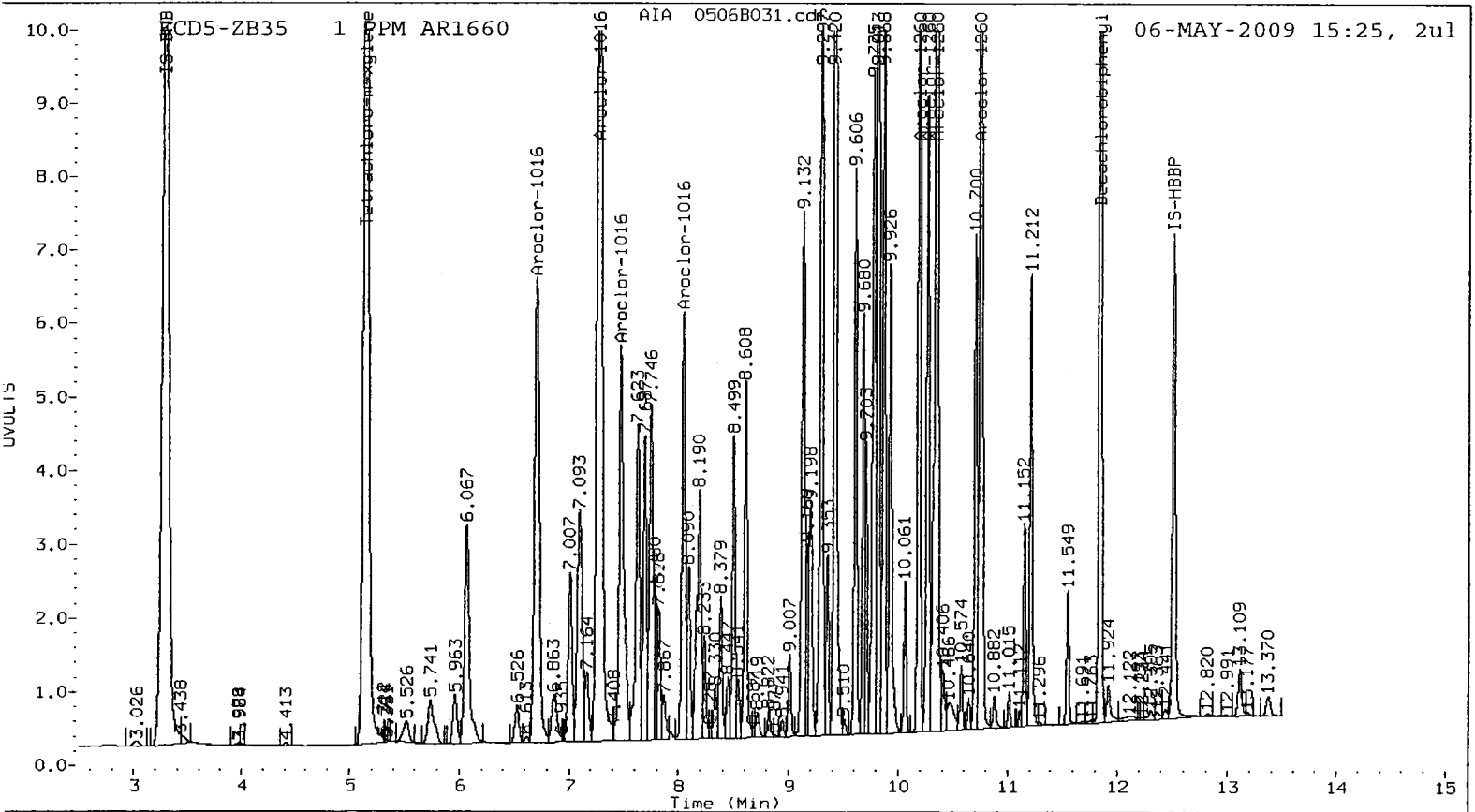
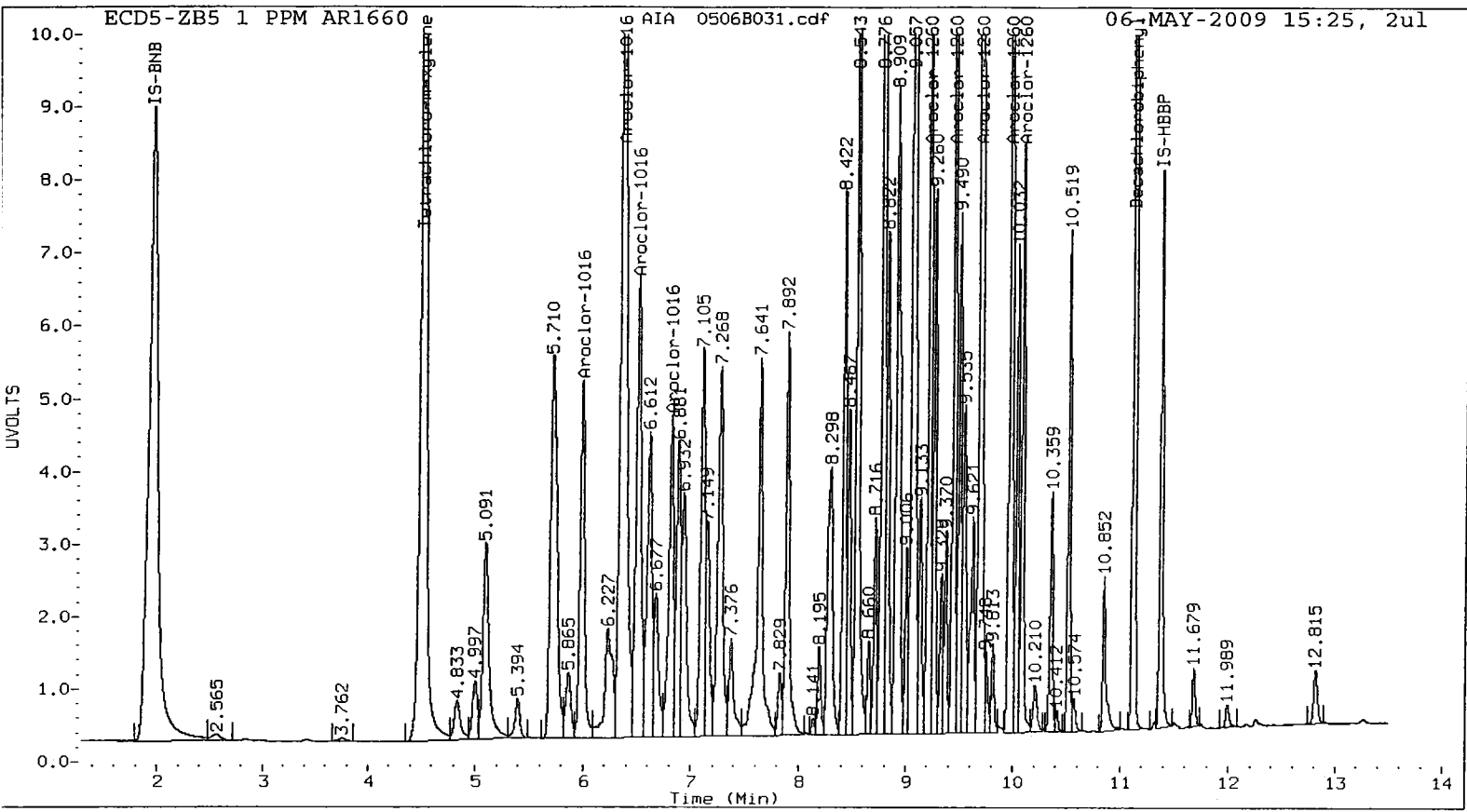
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.987	-0.004	7628044	875.6	1	6.701	-0.001	9817907	837.5
Aroclor-1016	2	6.364	-0.015	23676565	941.1	2	7.278	0.000	20310476	908.0
Aroclor-1016	3	6.504	-0.010	10413284	857.2	3	7.470	-0.001	7924586	861.1
Aroclor-1016	4	6.816	-0.006	6552924	908.7	4	8.041	-0.001	6060831	879.9
Total Col1Ave (4 peaks):				895.6	Total Col2Ave (4 peaks):				871.6	RPD = 3
Corrected Ave (3 peaks):				880.5	Corrected Ave (3 peaks):				859.5	RPD = 2
Aroclor-1260	1	9.211	-0.002	11901570	915.9	1	10.187	-0.001	10364842	963.5
Aroclor-1260	2	9.438	-0.002	11303679	931.8	2	10.265	-0.001	7601865	956.4
Aroclor-1260	3	9.684	-0.005	27805102	925.6	3	10.346	0.000	25177181	1008.0
Aroclor-1260	4	9.963	-0.007	13901615	963.5	4	10.746	-0.001	14691271	962.3
Aroclor-1260	5	10.082	-0.003	7093496	958.3	NS	---			----
Total Col1Ave (5 peaks):				939.0	Total Col2Ave (4 peaks):				972.6	RPD = 4
Corrected Ave (4 peaks):				932.9	Corrected Ave (3 peaks):				960.7	RPD = 3

Total PCB Area Col1 (4.607 - 11.020) = 356548521 Col1 Total PCB = 1.8 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 272773994 Col2 Total PCB = 1.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B032.d
Data file 2: 20090506.b/ical-2.b/0506B032.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1 PPM AR1660
Client ID:
Injection Date: 06-MAY-2009 15:42
Report Date: 05/07/2009 11:15
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.506	-0.001	2558405	5.147	0.002	2500624	7.3	8.0	9.8	Tetrachloro-m-xylene
11.121	0.001	1881684	11.844	0.000	1600084	7.8	8.0	2.8	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	18.2	20.1
Decachlorobiphenyl	19.4	20.0

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	26940317	1.1
Hexabromobiphenyl	6745626	6993060	3.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	25039502	0.3
Hexabromobiphenyl	6589208	6722542	2.0

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

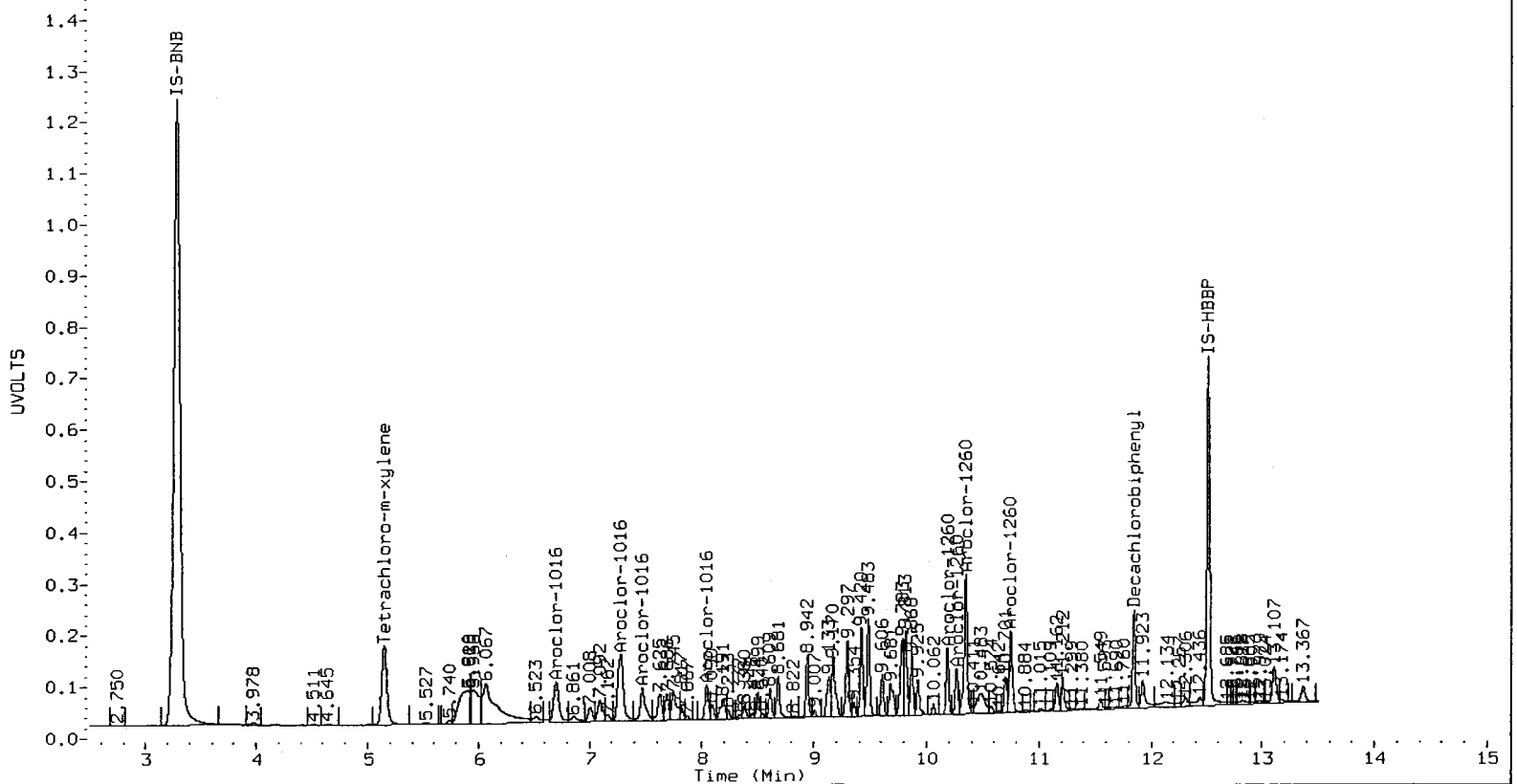
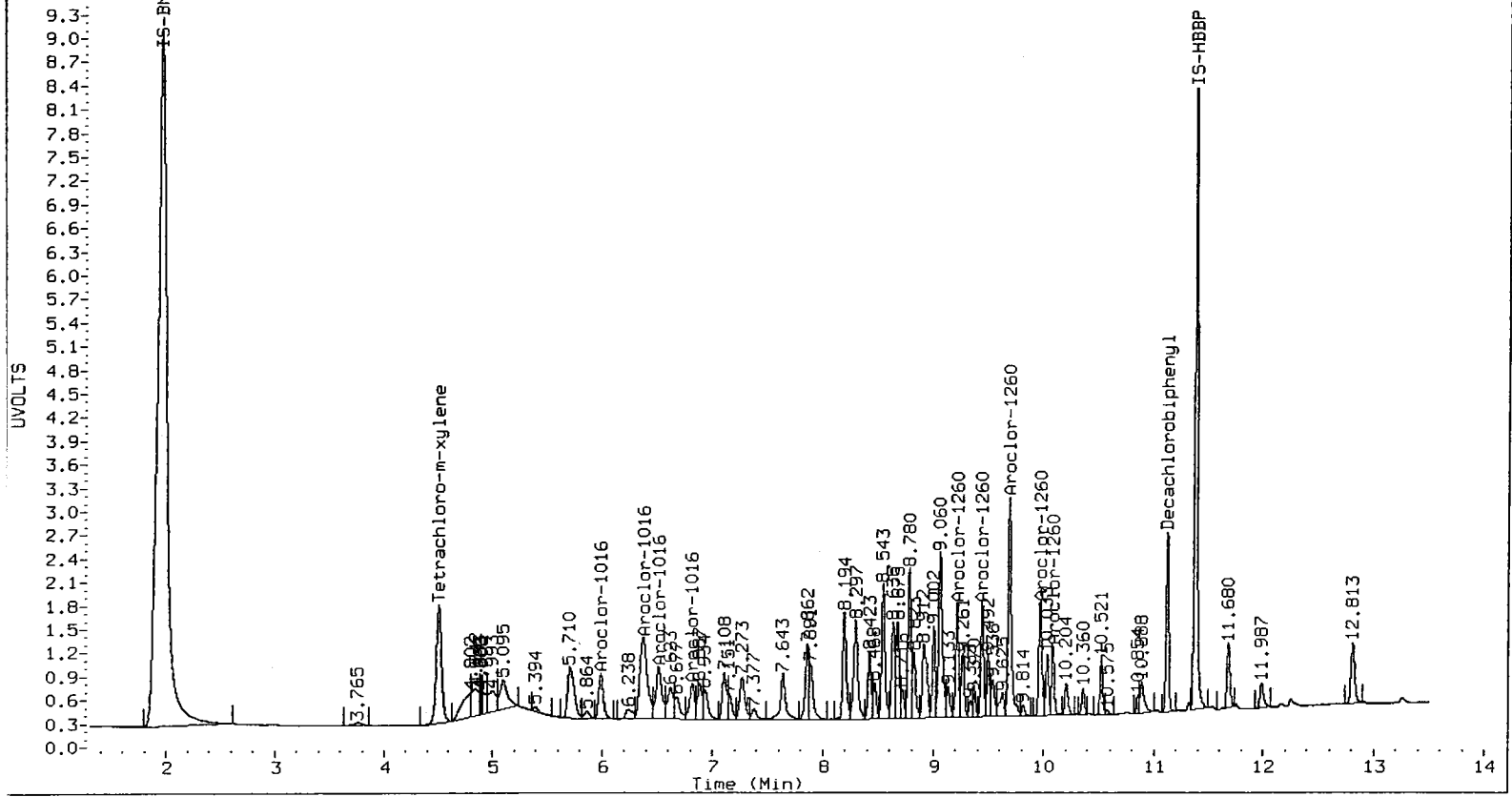
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.990	-0.001	849968	96.4	1	6.702	0.000	1324686	111.2
Aroclor-1016	2	6.375	-0.003	2526766	99.2	2	7.278	0.000	2327391	102.4
Aroclor-1016	3	6.512	-0.003	1291859	105.1	3	7.471	0.000	1011199	108.1
Aroclor-1016	4	6.819	-0.003	699759	95.9	4	8.041	-0.002	721062	103.0
Total Col1Ave (4 peaks):				99.2		Total Col2Ave (4 peaks):				106.2 RPD = 7
Corrected Ave (3 peaks):				97.2		Corrected Ave (3 peaks):				104.5 RPD = 7

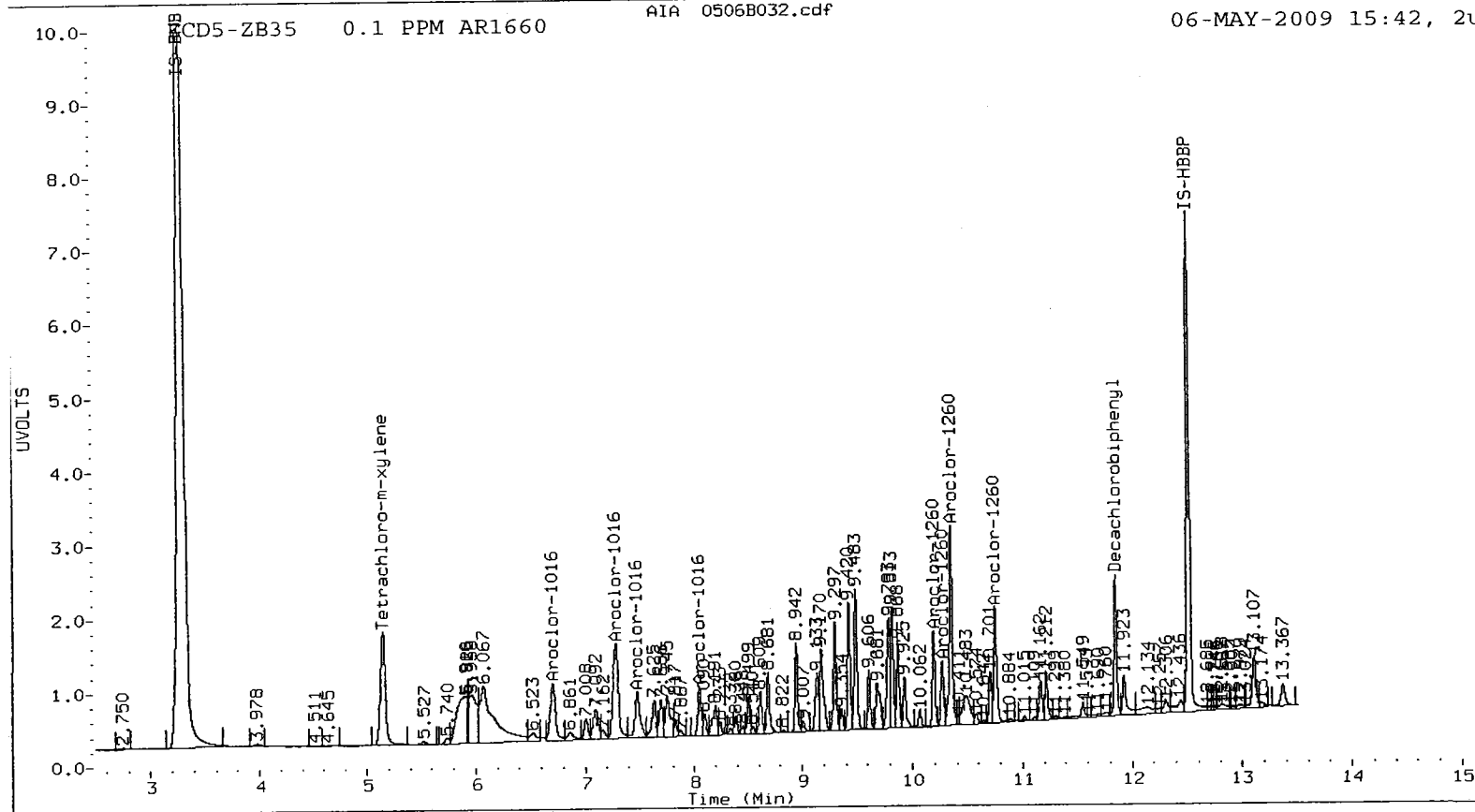
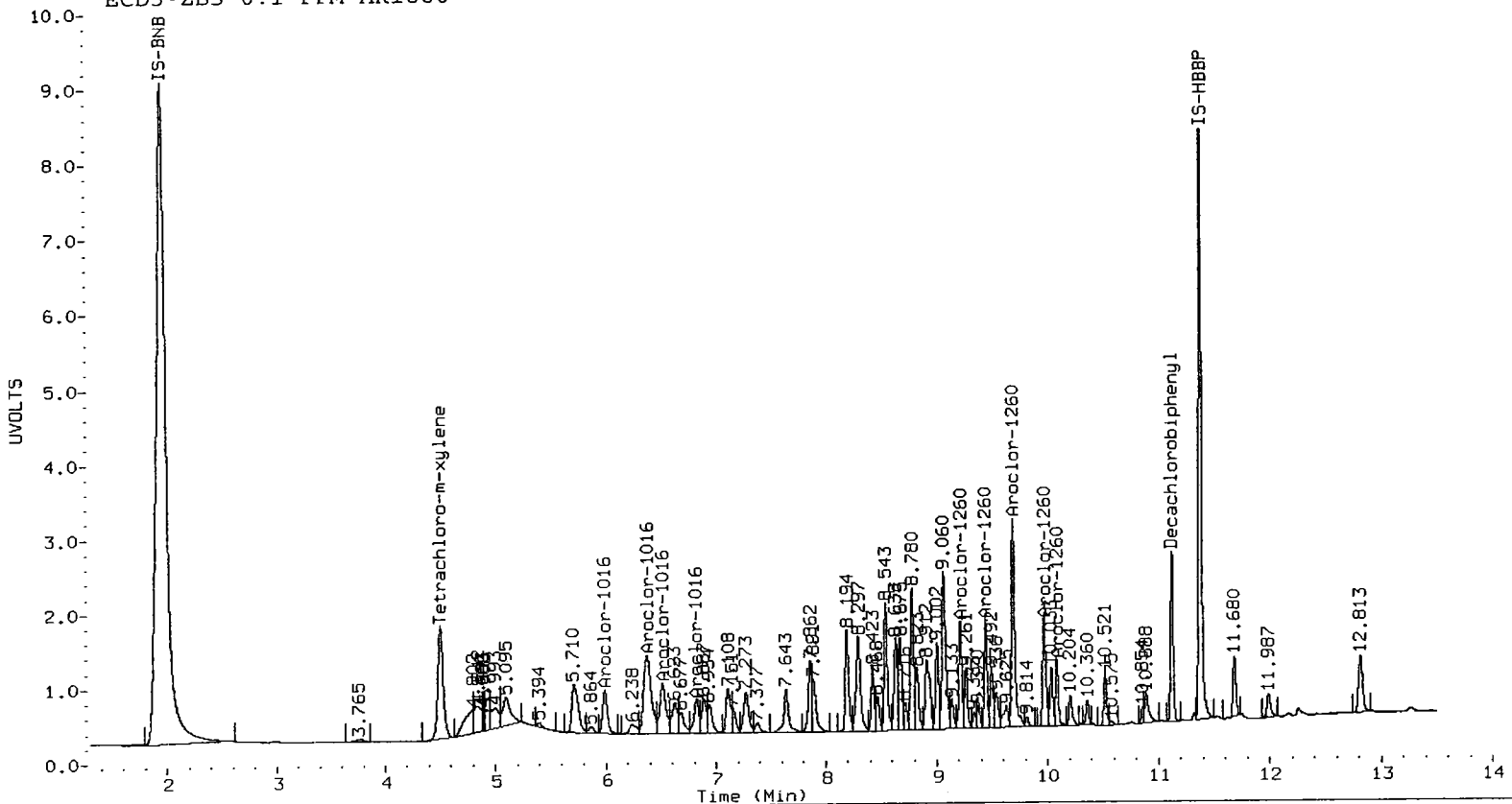
Aroclor-1260	1	9.212	-0.001	1355414	102.5	1	10.188	0.000	1088616	97.5
Aroclor-1260	2	9.438	-0.002	1257019	101.8	2	10.266	0.000	819491	99.4
Aroclor-1260	3	9.686	-0.002	3021066	98.8	3	10.346	0.000	2481247	95.7
Aroclor-1260	4	9.967	-0.003	1477565	100.6	4	10.747	0.000	1521636	96.0
Aroclor-1260	5	10.085	-0.001	766898	101.8	NS	---			----
Total Col1Ave (5 peaks):				101.1		Total Col2Ave (4 peaks):				97.2 RPD = 4
Corrected Ave (4 peaks):				100.8		Corrected Ave (3 peaks):				96.4 RPD = 4

Total PCB Area Col1 (4.607 - 11.020) = 49421899 Coll Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 44301357 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B033.d
Data file 2: 20090506.b/ical-2.b/0506B033.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5 PPM AR1660
Client ID:
Injection Date: 06-MAY-2009 15:59
Report Date: 05/07/2009 11:15
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.505	-0.001	13470267	5.146	0.001	11757595	38.2	37.0	3.2	Tetrachloro-m-xylene
11.120	0.000	8395835	11.845	0.001	7146999	34.5	35.8	3.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	95.6	92.5
Decachlorobiphenyl	86.2	89.5

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	26975710	1.3
Hexabromobiphenyl	6745626	7029395	4.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	25522185	2.3
Hexabromobiphenyl	6589208	6702754	1.7

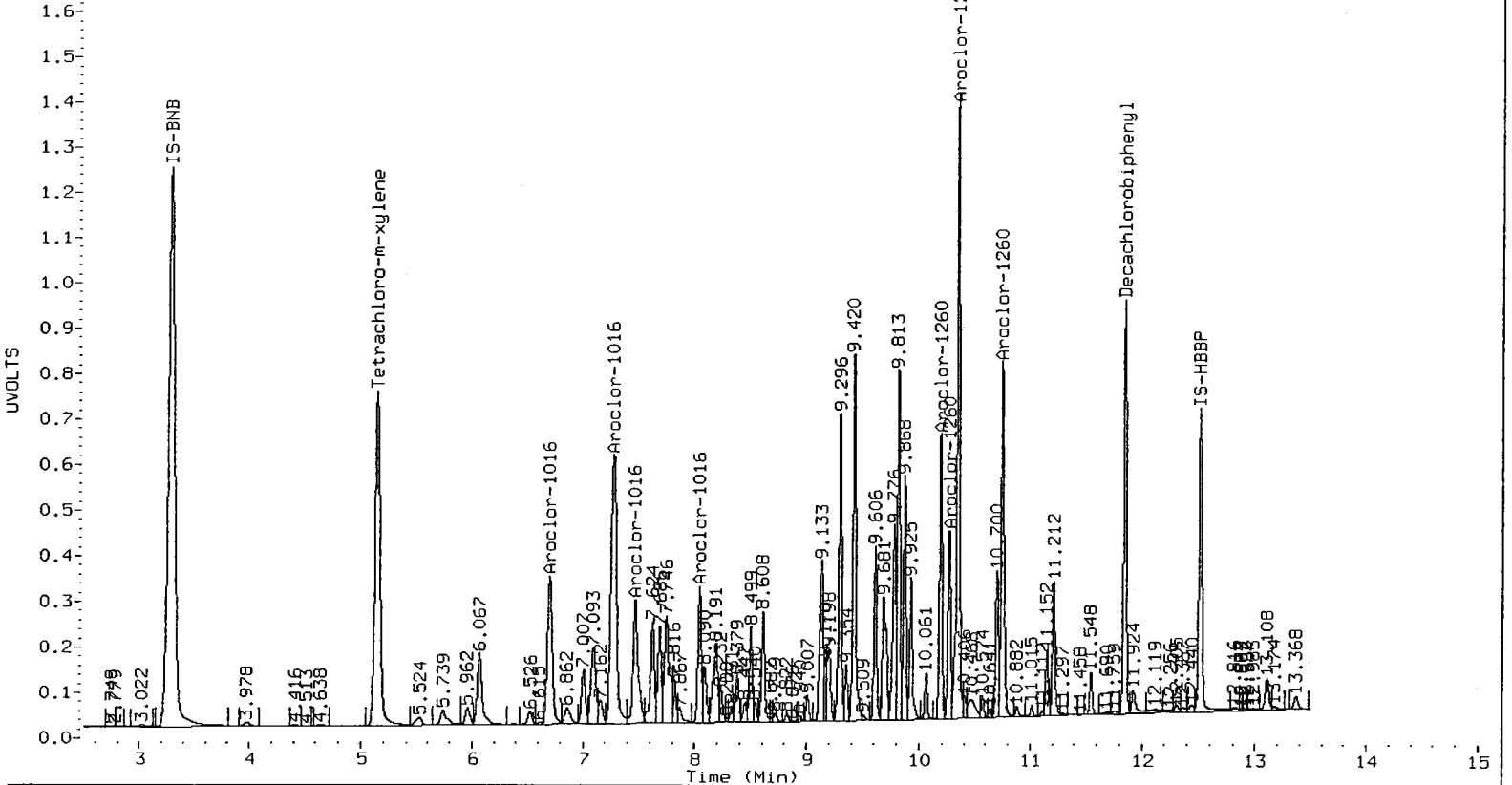
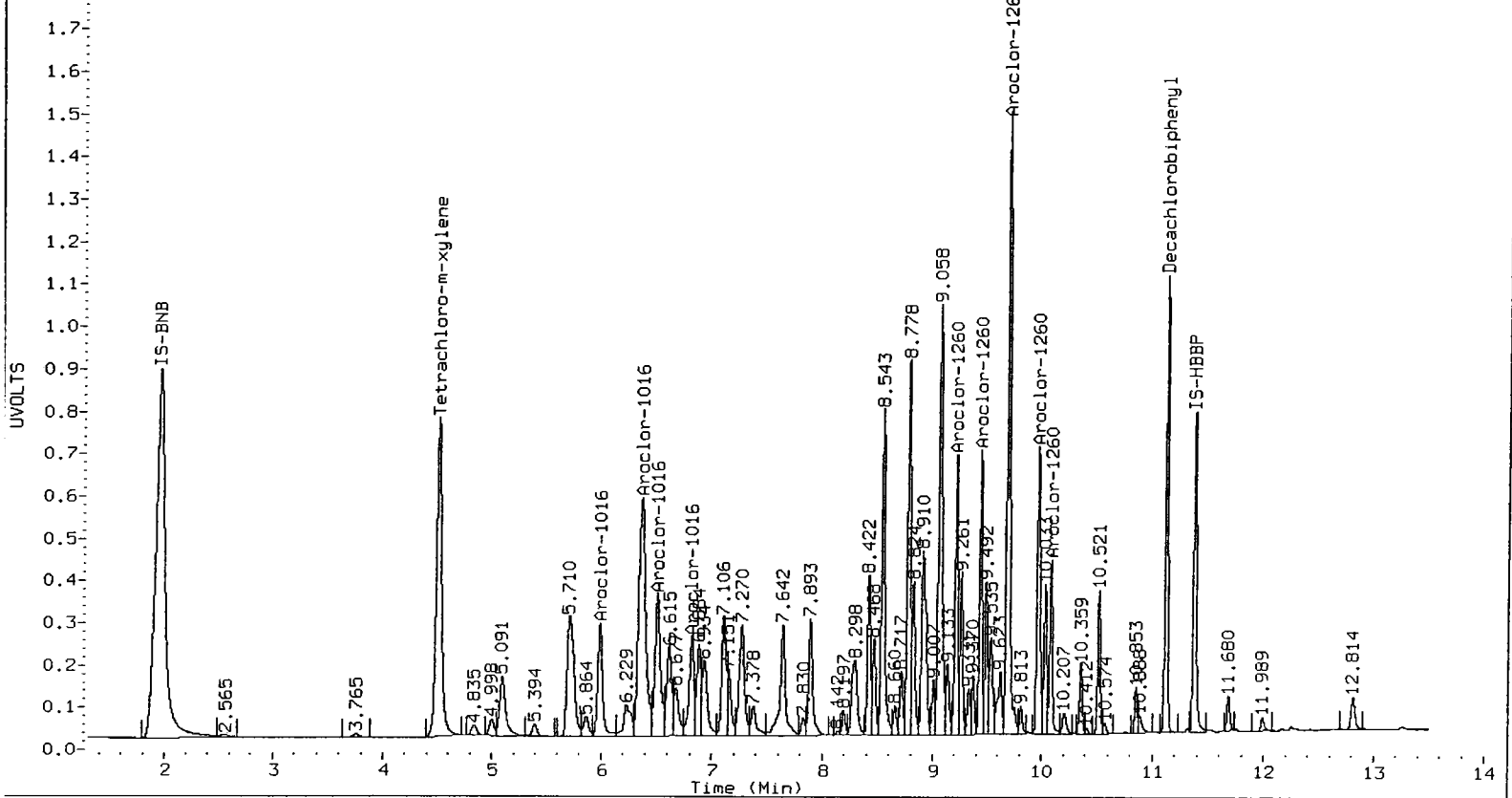
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

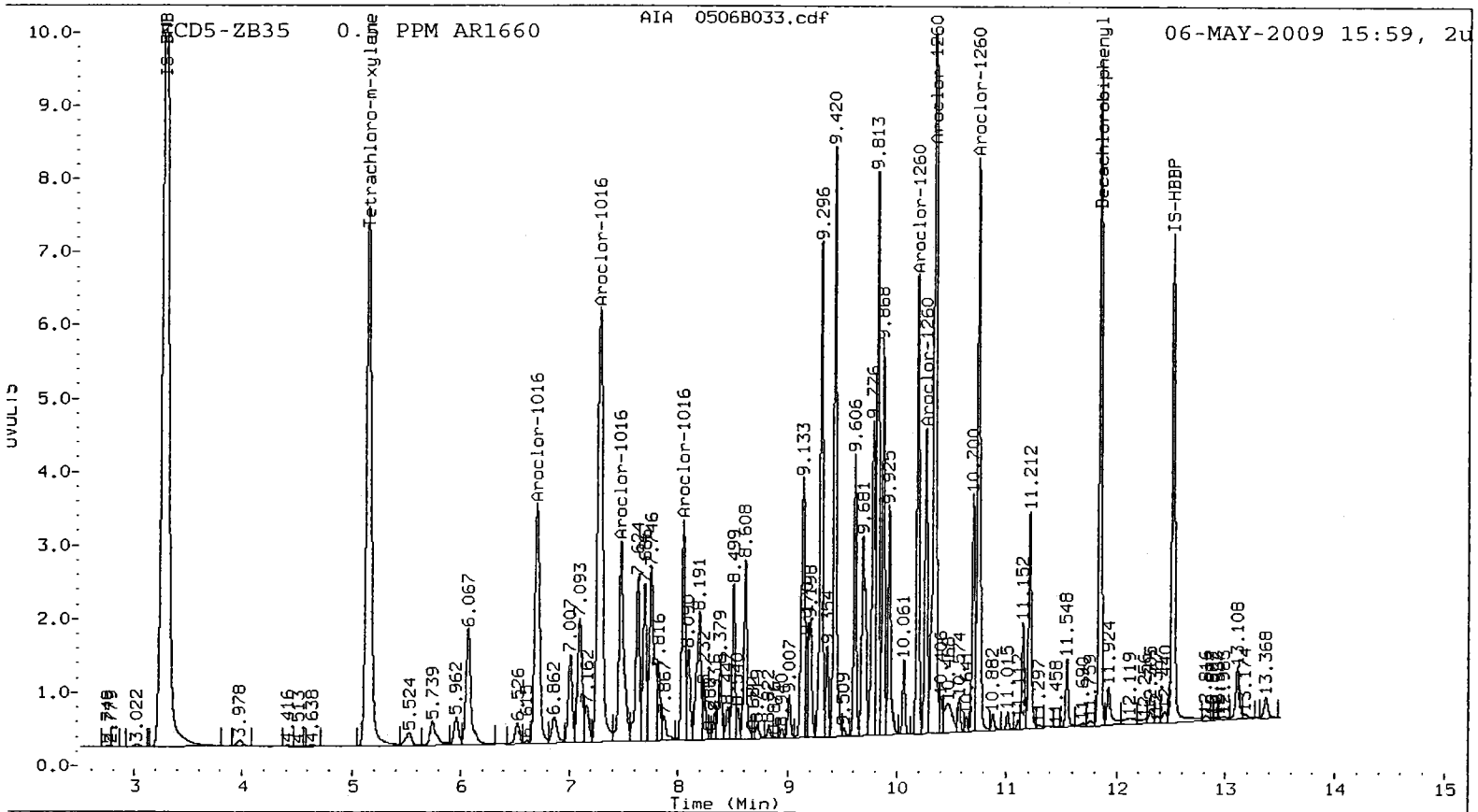
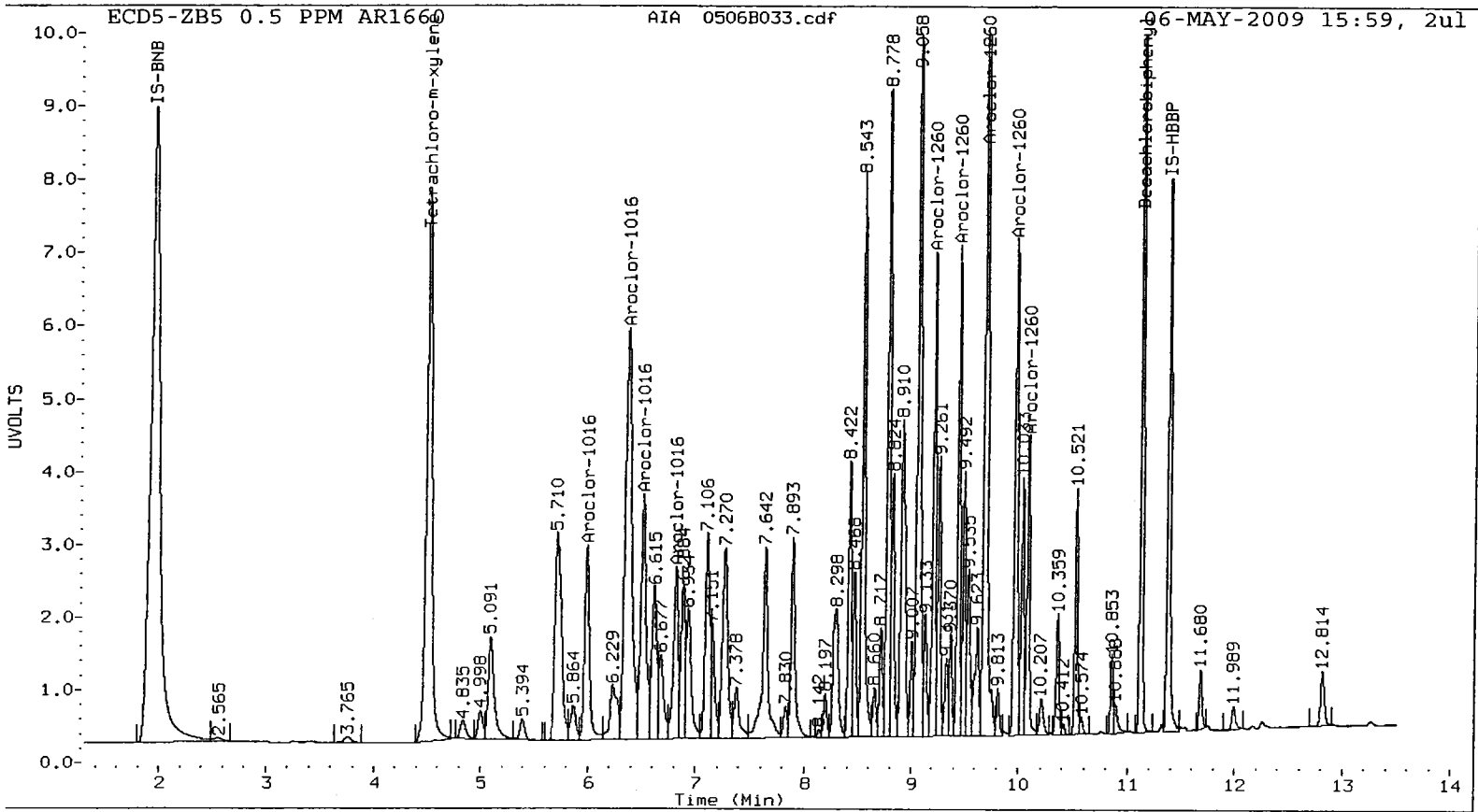
ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.988	-0.003	4221070	478.1	1	6.702	0.000	5150687	424.3	
Aroclor-1016	2	6.367	-0.012	12450479	488.4	2	7.278	-0.001	10364747	447.4	
Aroclor-1016	3	6.506	-0.008	5750341	467.1	3	7.470	0.000	4246251	445.6	
Aroclor-1016	4	6.817	-0.004	3536664	484.0	4	8.042	-0.001	3116373	436.9	
Total Col1Ave (4 peaks):				479.4	Total Col2Ave (4 peaks):				438.5	RPD = 9	
Corrected Ave (3 peaks):				476.4	Corrected Ave (3 peaks):				435.6	RPD = 9	
Aroclor-1260	1	9.212	-0.001	6096694	458.6	1	10.187	-0.001	5032625	452.2	
Aroclor-1260	2	9.438	-0.002	5750668	463.4	2	10.266	-0.001	3719265	452.3	
Aroclor-1260	3	9.685	-0.003	14858126	483.5	3	10.346	-0.001	11994970	464.2	
Aroclor-1260	4	9.965	-0.005	7024013	475.9	4	10.747	-0.001	7125999	451.1	
Aroclor-1260	5	10.084	-0.002	3647326	481.6	NS	---			----	
Total Col1Ave (5 peaks):				472.6	Total Col2Ave (4 peaks):				454.9	RPD = 4	
Corrected Ave (4 peaks):				469.9	Corrected Ave (3 peaks):				451.9	RPD = 4	

Total PCB Area Col1 (4.607 - 11.020) = 185411725 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 138759507 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B034.d
Data file 2: 20090506.b/ical-2.b/0506B034.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660 ICV
Client ID:
Injection Date: 06-MAY-2009 16:17
Report Date: 05/07/2009 11:15
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.452	-0.055	234404	5.147	0.001	48259	0.7	0.2	124.6*	Tetrachloro-m-xylene
11.116	-0.004	201744	11.846	0.002	201186	0.8	1.0	20.9	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	1.7	0.4
Decachlorobiphenyl	2.1	2.6

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	26668042	0.1
Hexabromobiphenyl	6745626	6899658	2.3

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	24795304	-0.6
Hexabromobiphenyl	6589208	6483664	-1.6

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 06-MAY-2009

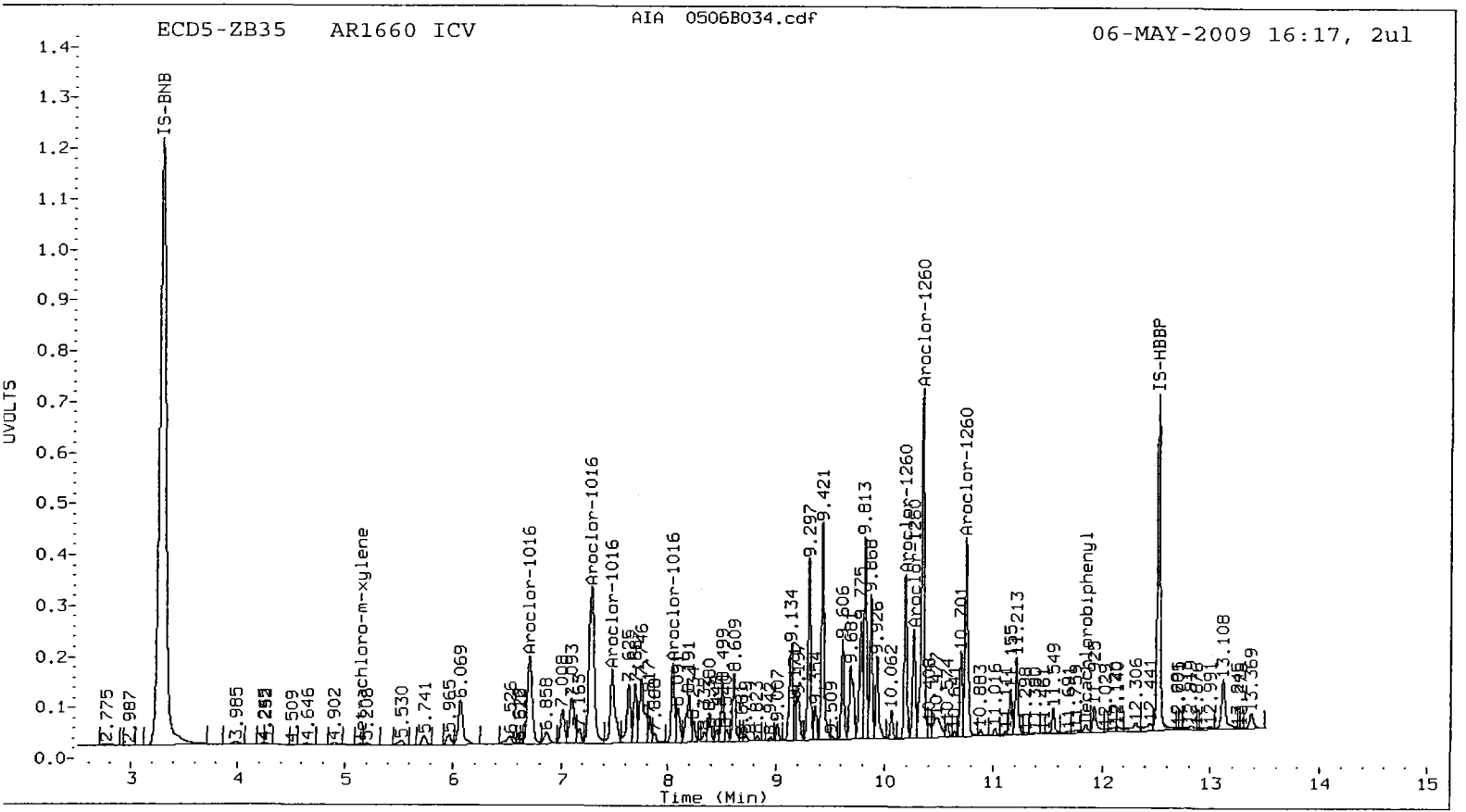
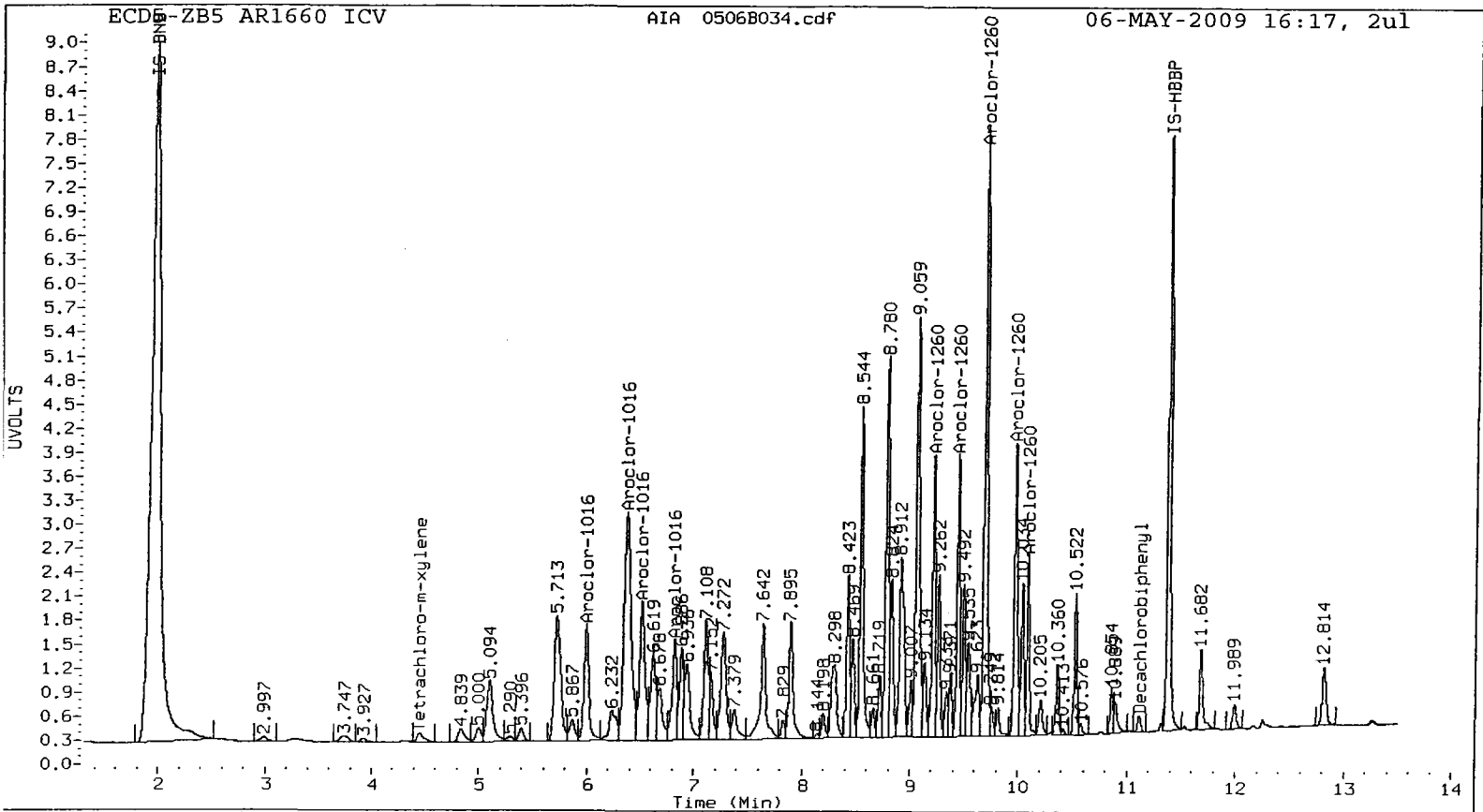
<- Indicates standard response outside Limits (-50 to +100%)

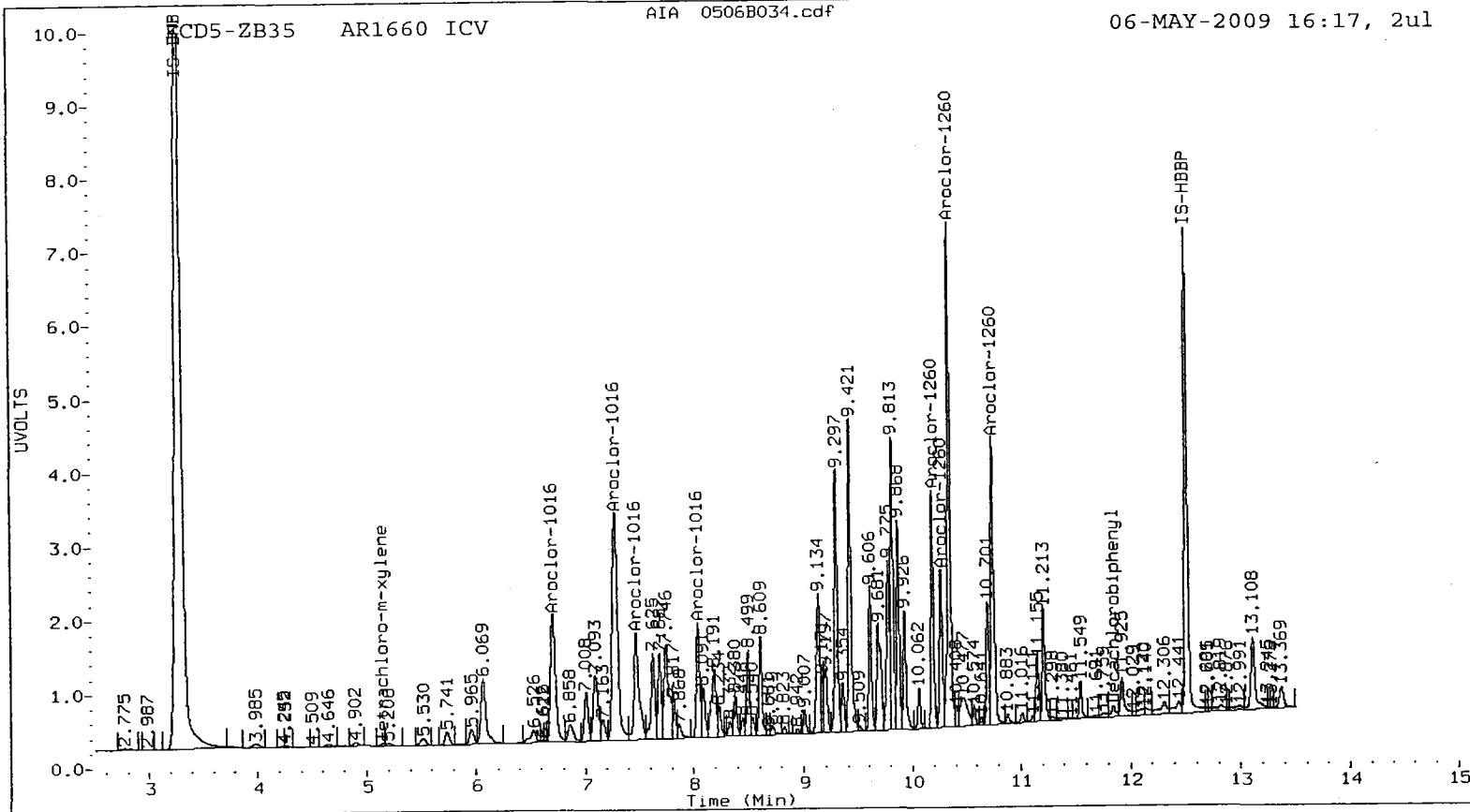
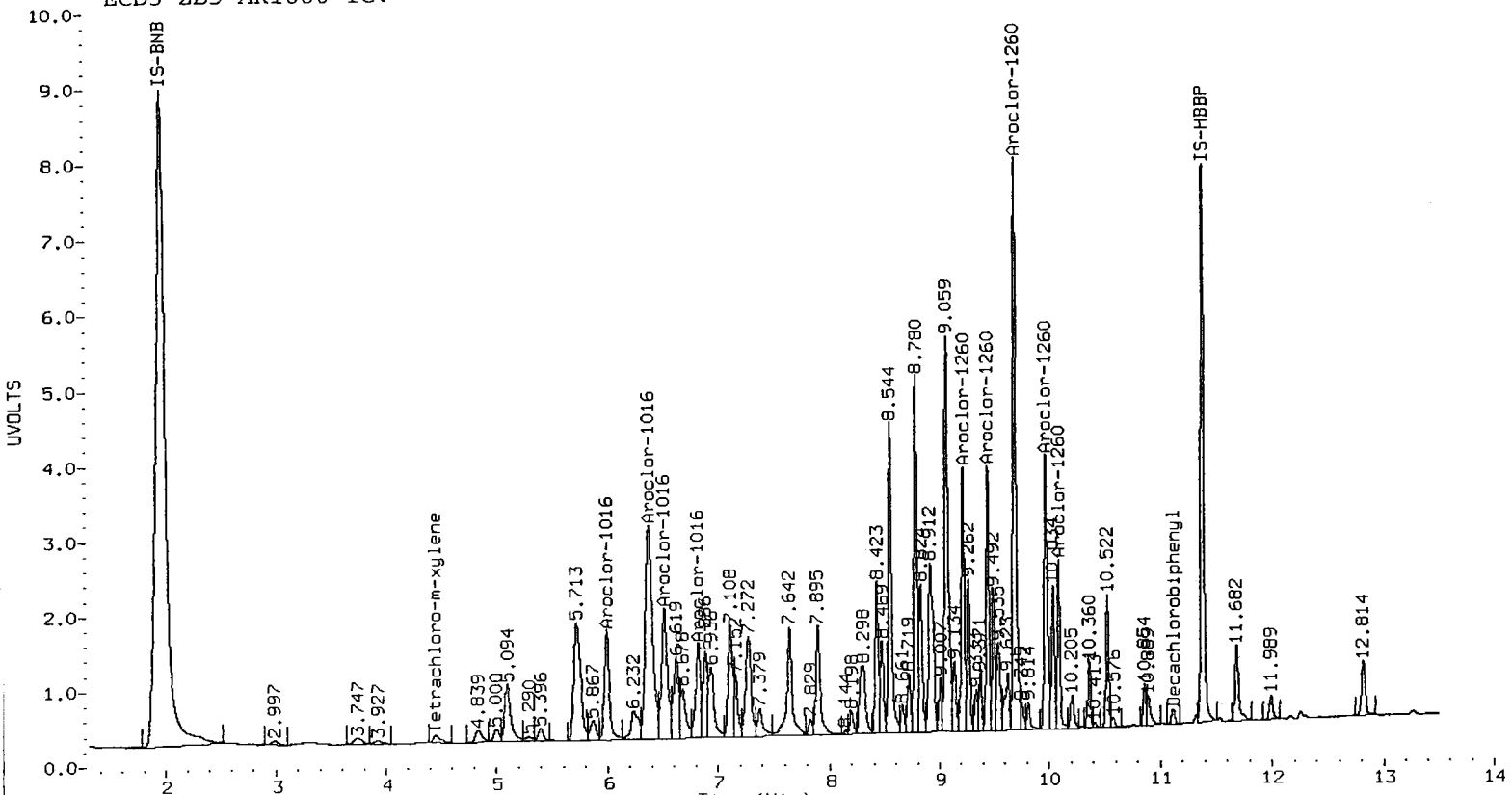
ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.990	0.000	2298985	263.4	1	6.705	0.003	2772797	235.1	
Aroclor-1016	2	6.368	-0.011	6579837	261.1	2	7.279	0.001	5457171	242.5	
Aroclor-1016	3	6.510	-0.005	3152930	259.1	3	7.471	0.000	2296474	248.0	
Aroclor-1016	4	6.820	-0.001	1916191	265.3	4	8.042	-0.001	1679912	242.4	
Total Col1Ave (4 peaks):				262.2	Total Col2Ave (4 peaks):				242.0	RPD = 8	
Corrected Ave (3 peaks):				261.2	Corrected Ave (3 peaks):				240.0	RPD = 8	
Aroclor-1260	1	9.212	-0.001	3316023	254.1	1	10.188	0.000	2641414	245.3	
Aroclor-1260	2	9.438	-0.002	3100855	254.6	2	10.265	-0.001	1966763	247.2	
Aroclor-1260	3	9.686	-0.003	7574413	251.1	3	10.346	-0.001	6187370	247.5	
Aroclor-1260	4	9.967	-0.003	3741147	258.2	4	10.746	-0.001	3705213	242.5	
Aroclor-1260	5	10.085	-0.001	1982852	266.8	NS	---			----	
Total Col1Ave (5 peaks):				257.0	Total Col2Ave (4 peaks):				245.6	RPD = 4	
Corrected Ave (4 peaks):				254.5	Corrected Ave (3 peaks):				245.0	RPD = 4	

Total PCB Area Col1 (4.607 - 11.020) = 100539776 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 74988725 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B035.d
Data file 2: 20090506.b/ical-2.b/0506B035.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 06-MAY-2009 16:34
Report Date: 05/07/2009 11:15
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.507	0.000	7162140	5.149	0.003	6026863	21.2	20.1	5.3	Tetrachloro-m-xylene
11.121	0.001	4381034	11.844	0.000	3652074	18.9	19.9	5.2	Decachlorobiphenyl

- * Indicates RPD > 40%
- ¶ Indicates Column 1 peak was manually integrated
- ¶ Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	53.1	50.3
Decachlorobiphenyl	47.2	49.7

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	25830944	-3.0
Hexabromobiphenyl	6745626	6700013	-0.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	24056818	-3.6
Hexabromobiphenyl	6589208	6164994	-6.4

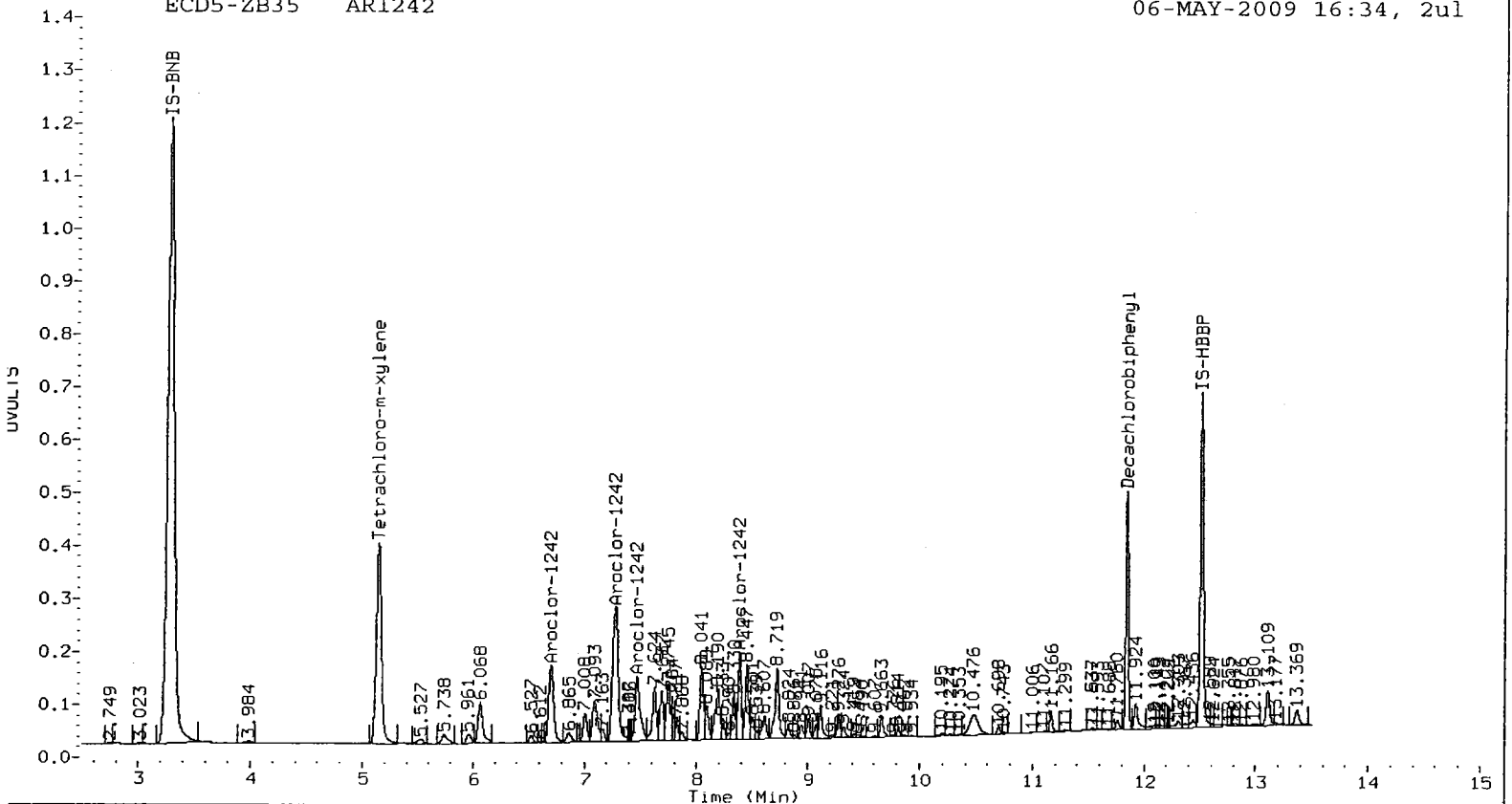
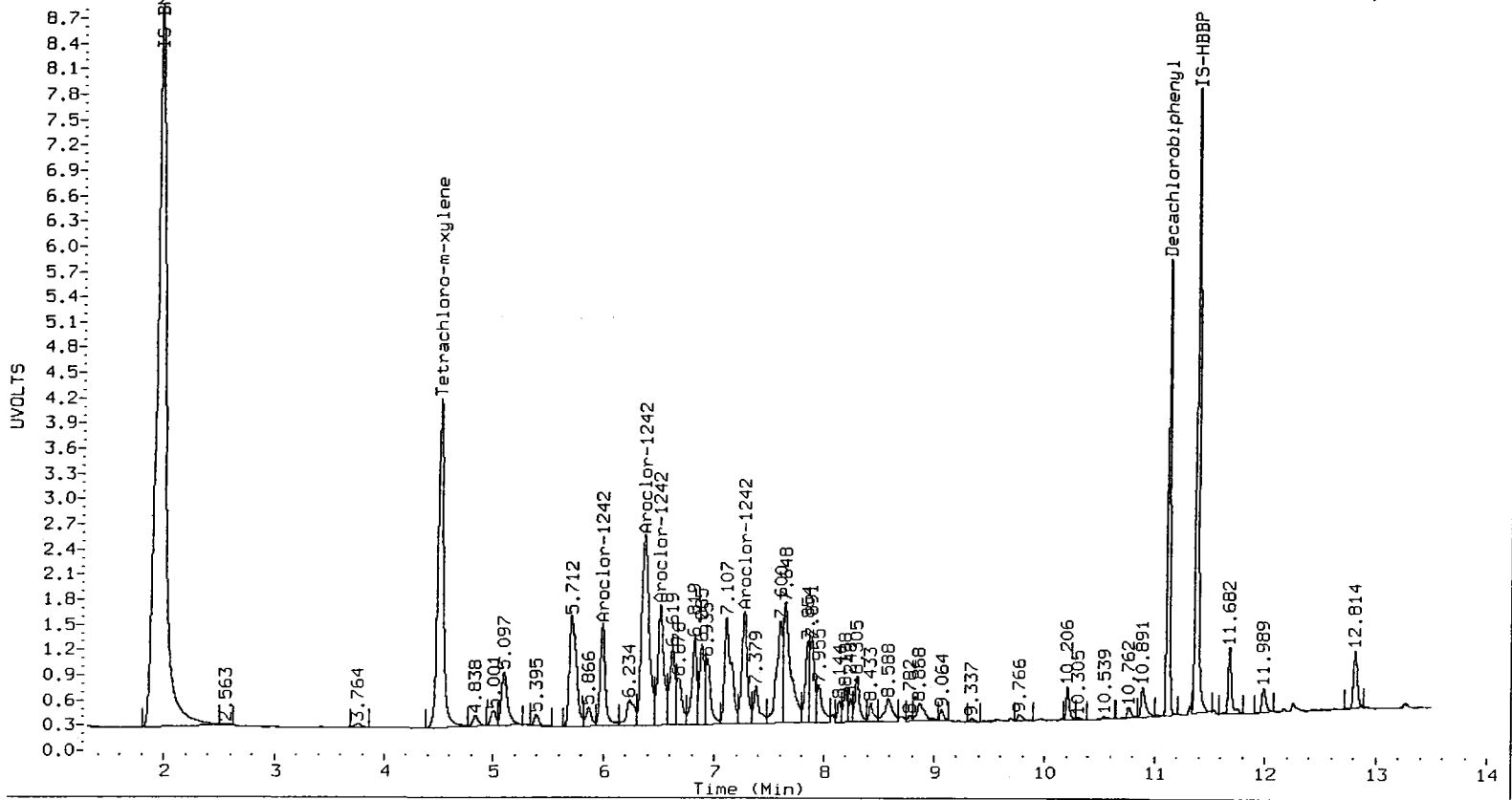
- * Standard Areas taken from Initial Cal Level 3
- Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

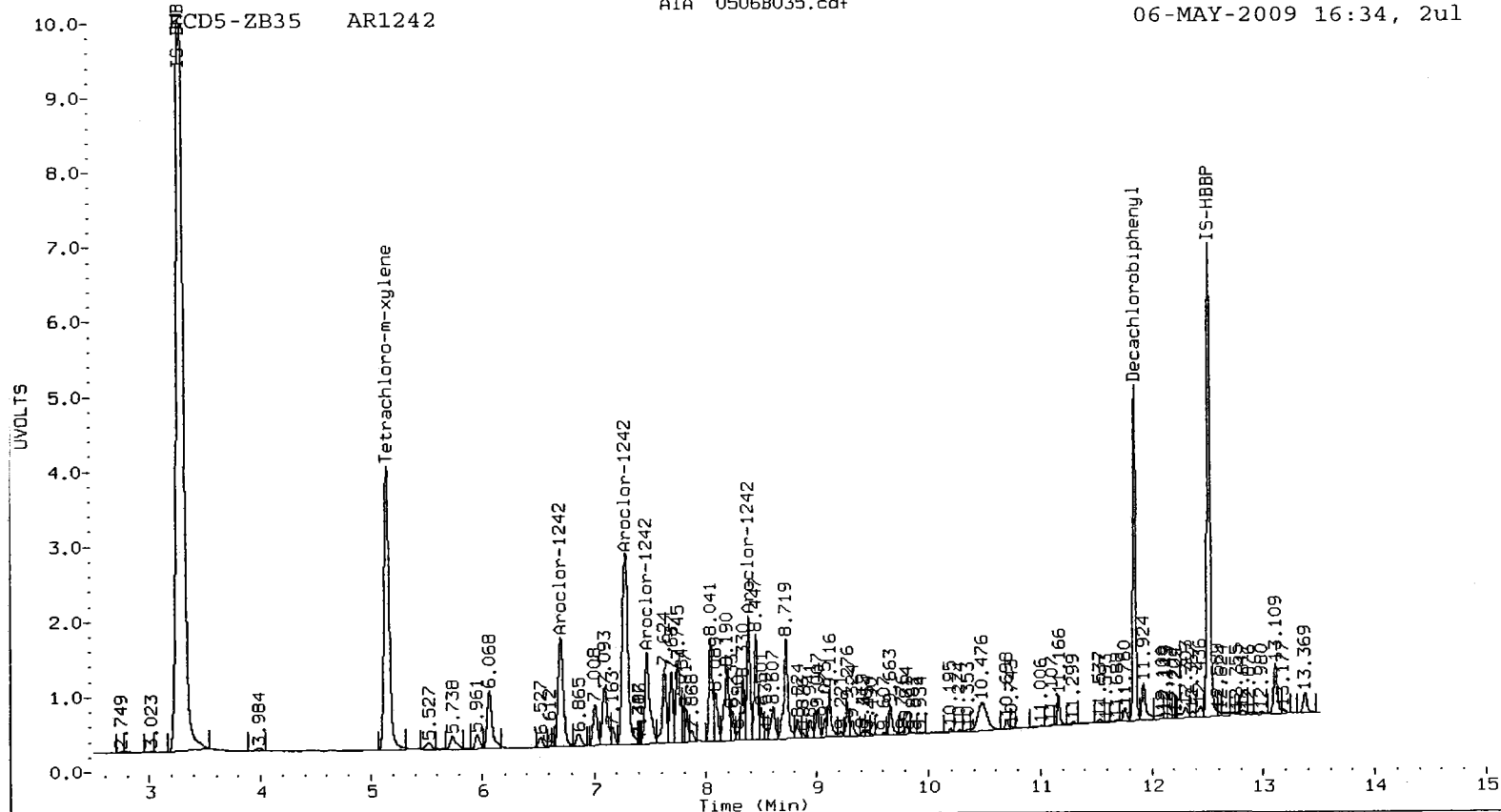
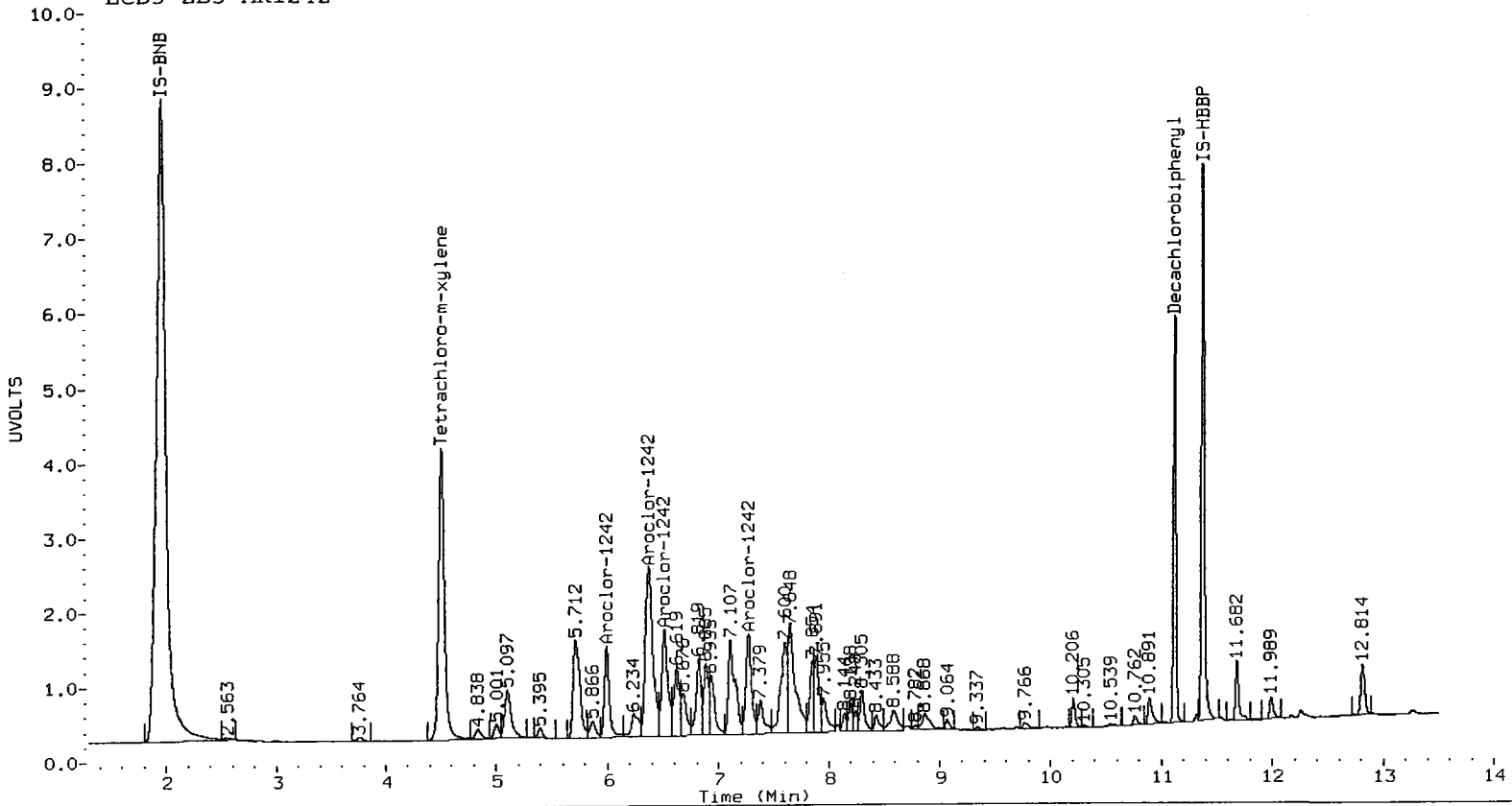
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	5.990	0.000	1945884	250.0	1	6.701	0.000	2357376	250.0
Aroclor-1242	2	6.370	0.000	5418632	250.0	2	7.278	0.000	4542875	250.0
Aroclor-1242	3	6.510	0.000	2653938	250.0	3	7.469	0.000	1910791	250.0
Aroclor-1242	4	7.272	0.000	2400096	250.0	4	8.381	0.000	1698117	250.0
Total CollAve (4 peaks):				250.0		Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Coll (4.607 - 11.020) = 42831220 Coll Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 34093752 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B036.d
Data file 2: 20090506.b/ical-2.b/0506B036.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 06-MAY-2009 16:51
Report Date: 05/07/2009 11:16
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.506	0.000 8368091	5.147 0.001 7132871	5.147	24.7	23.0	7.1	Tetrachloro-m-xylene
11.121	0.001 5201447	11.845 0.001 4388521	11.845	21.5	22.8	5.7	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	61.6	57.4
Decachlorobiphenyl	53.8	56.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	25986111	-2.4
Hexabromobiphenyl	6745626	6980507	3.5

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	24958522	0.0
Hexabromobiphenyl	6589208	6466042	-1.9

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 06-MAY-2009

<- Indicates standard response outside Limits (-50 to +100%)

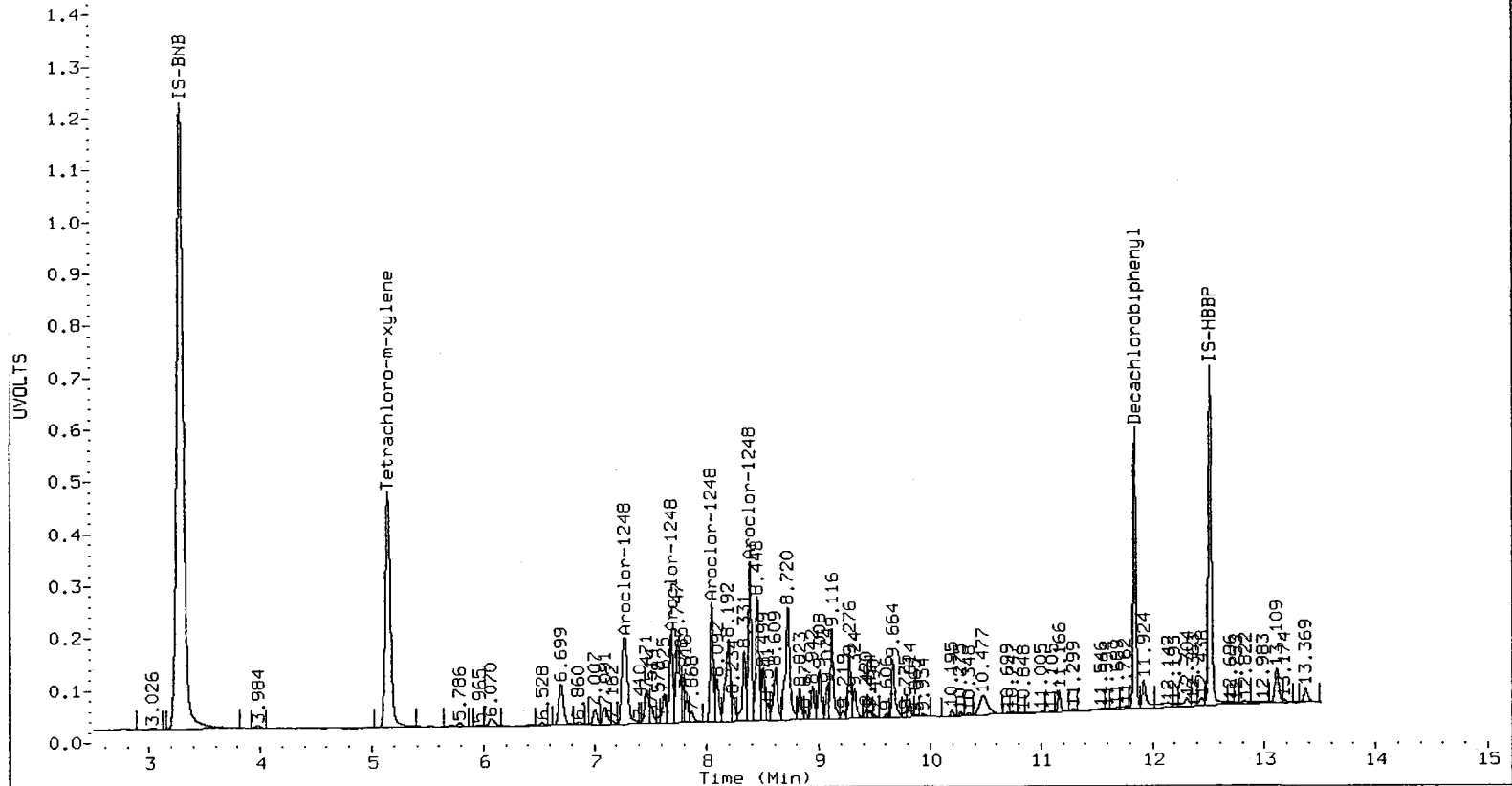
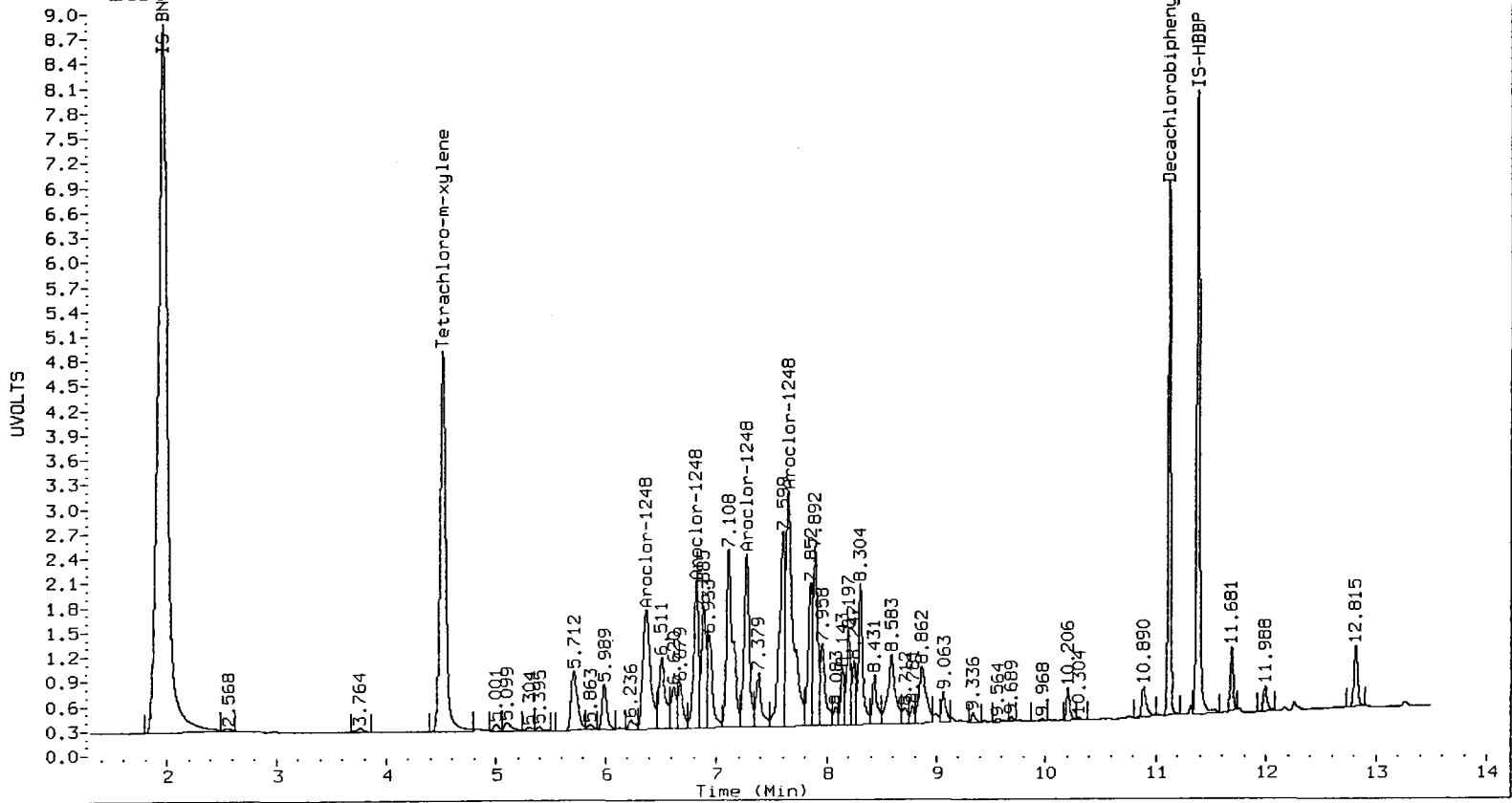
		ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	6.373	0.000	3528639	250.0	1	7.274	0.000	3079708	250.0
Aroclor-1248	2	6.819	0.000	2609244	250.0	2	7.687	0.000	1824019	250.0
Aroclor-1248	3	7.270	0.000	3550700	250.0	3	8.042	0.000	2293139	250.0
Aroclor-1248	4	7.645	0.000	6221642	250.0	4	8.383	0.000	3040968	250.0
Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

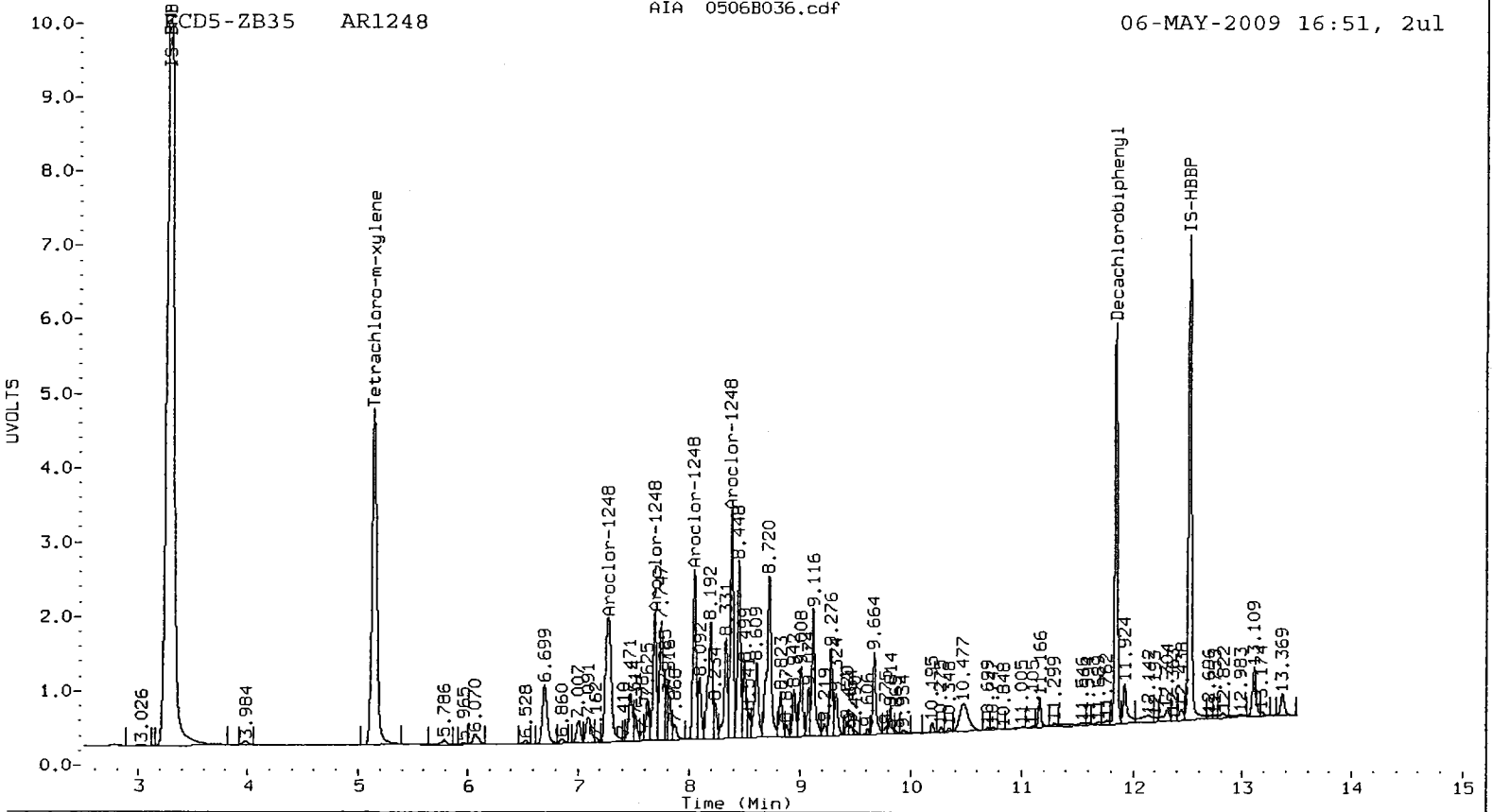
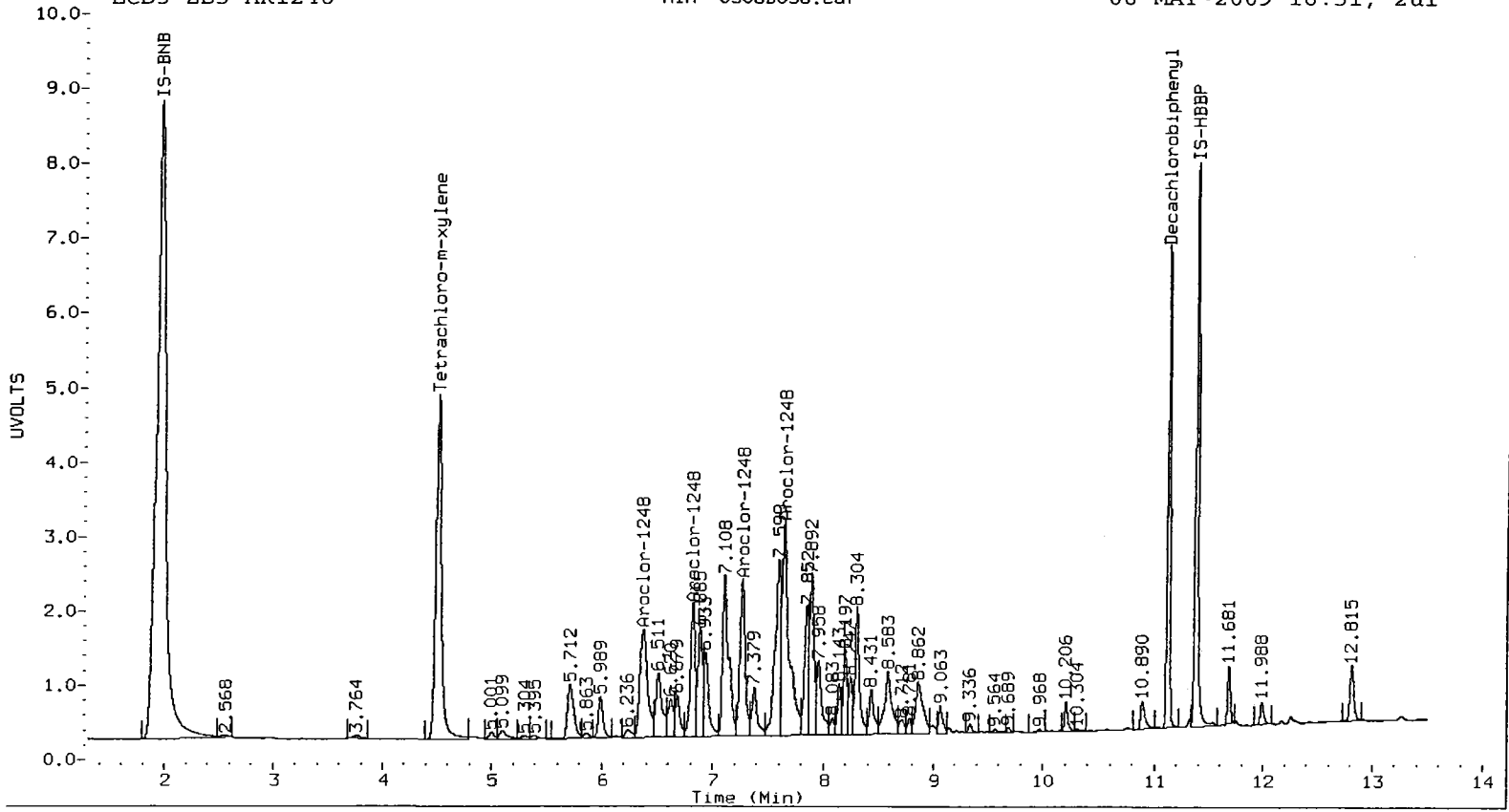
Total PCB Area Col1 (4.607 - 11.020) = 55263442 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 41883138 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B037.d
Data file 2: 20090506.b/ical-2.b/0506B037.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 06-MAY-2009 17:08
Report Date: 05/07/2009 11:16
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.507	0.000 8278368	5.147 0.001 7105611	5.147	24.3	23.3	4.3	Tetrachloro-m-xylene
11.120	0.000 5232700	11.844 0.000 4435571	11.844	21.9	22.5	2.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- 4 Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	60.7	58.2
Decachlorobiphenyl	54.7	56.2

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	26112580	-2.0
Hexabromobiphenyl	6745626	6904827	2.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	24543042	-1.6
Hexabromobiphenyl	6589208	6623690	0.5

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

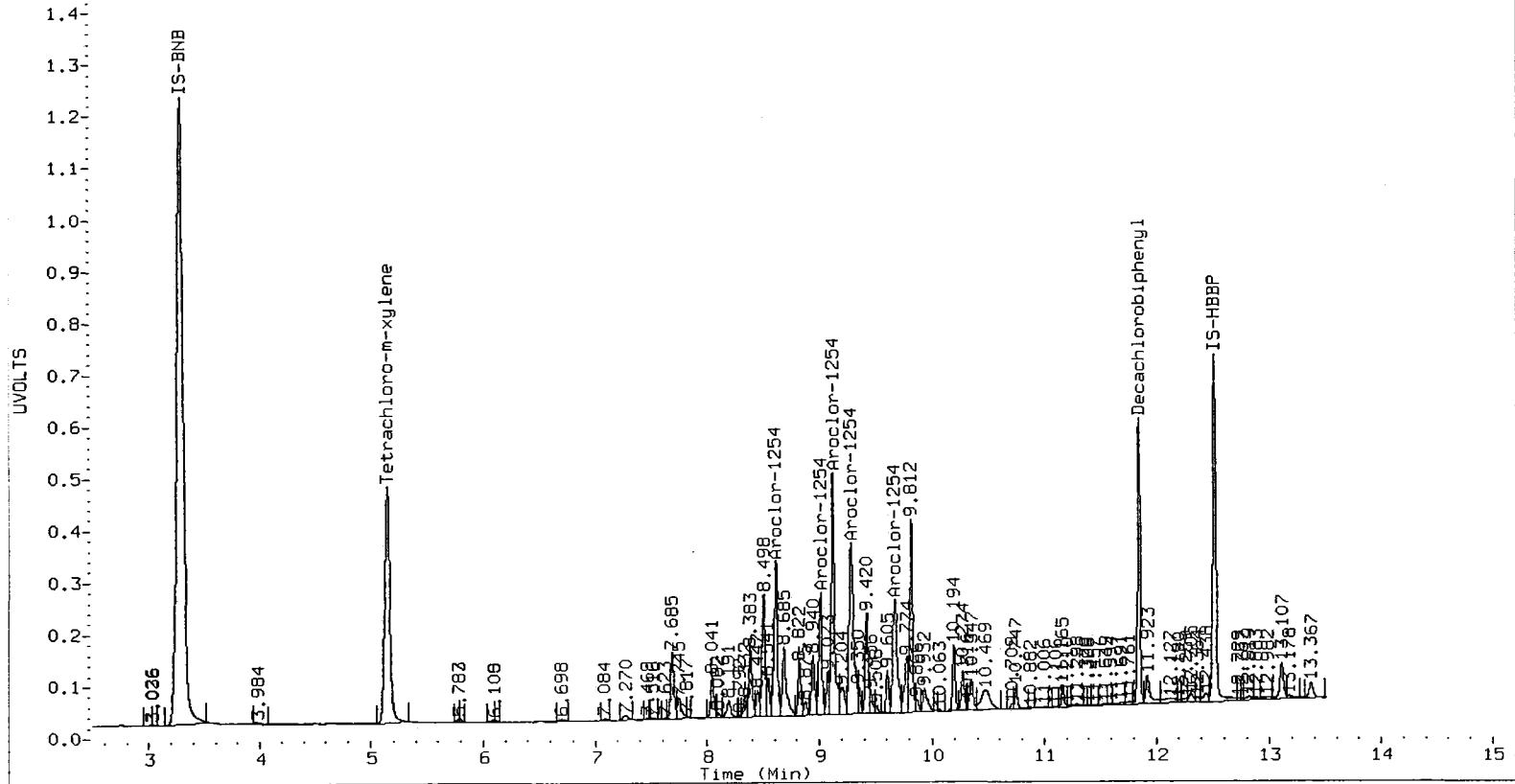
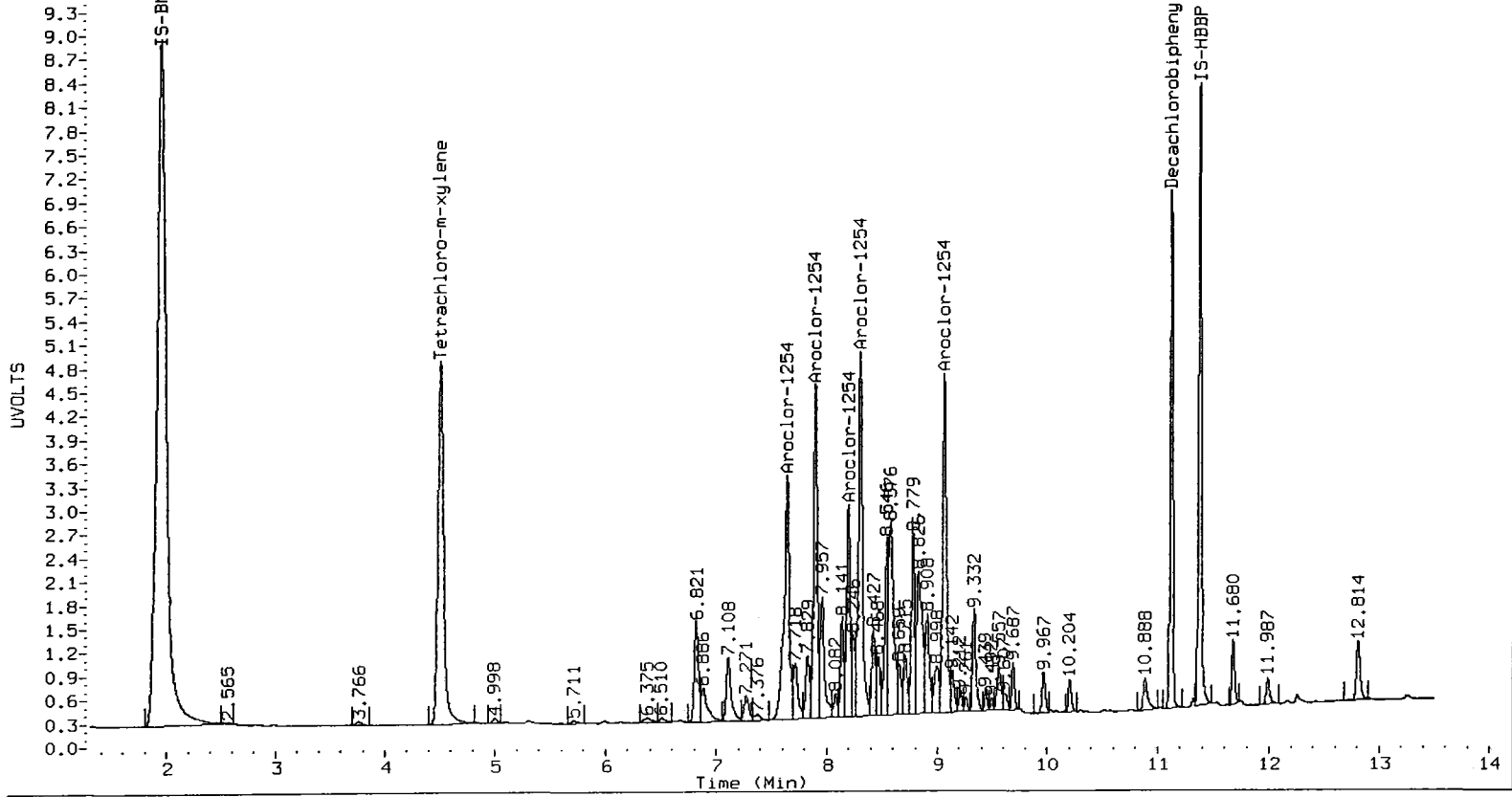
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	7.641	0.000	5158940	250.0	1	8.608	0.000	3136068	250.0
Aroclor-1254	2	7.894	0.000	4993541	250.0	2	9.007	0.000	2165845	250.0
Aroclor-1254	3	8.196	0.000	3111078	250.0	3	9.116	0.000	4674461	250.0
Aroclor-1254	4	8.302	0.000	6096098	250.0	4	9.276	0.000	4722588	250.0
Aroclor-1254	5	9.060	0.000	5256870	250.0	5	9.667	0.000	2993632	250.0
Total Col1Ave (5 peaks):				250.0		Total Col2Ave (5 peaks):				250.0 RPD = 0
Corrected Ave (4 peaks):				250.0		Corrected Ave (4 peaks):				250.0 RPD = 0

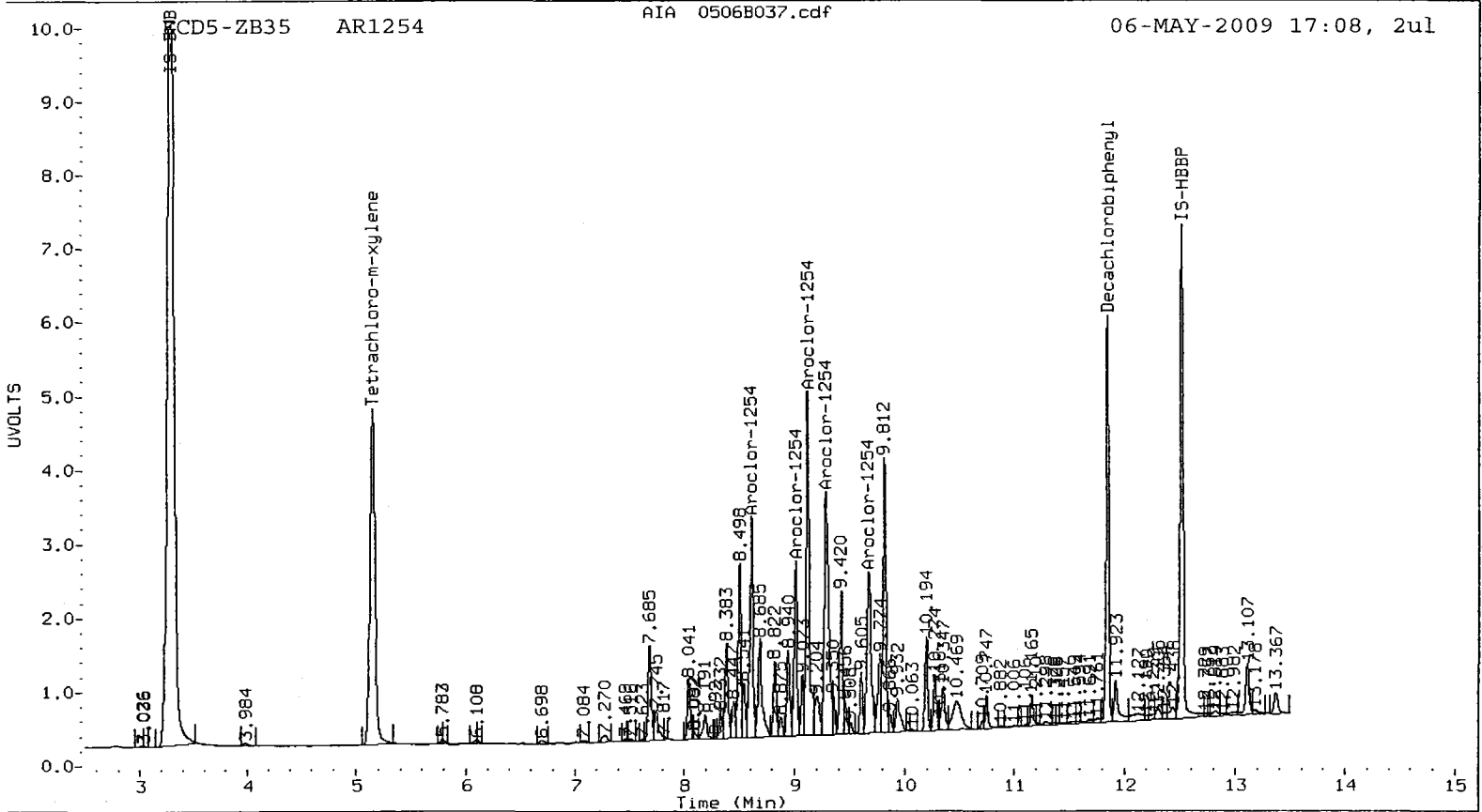
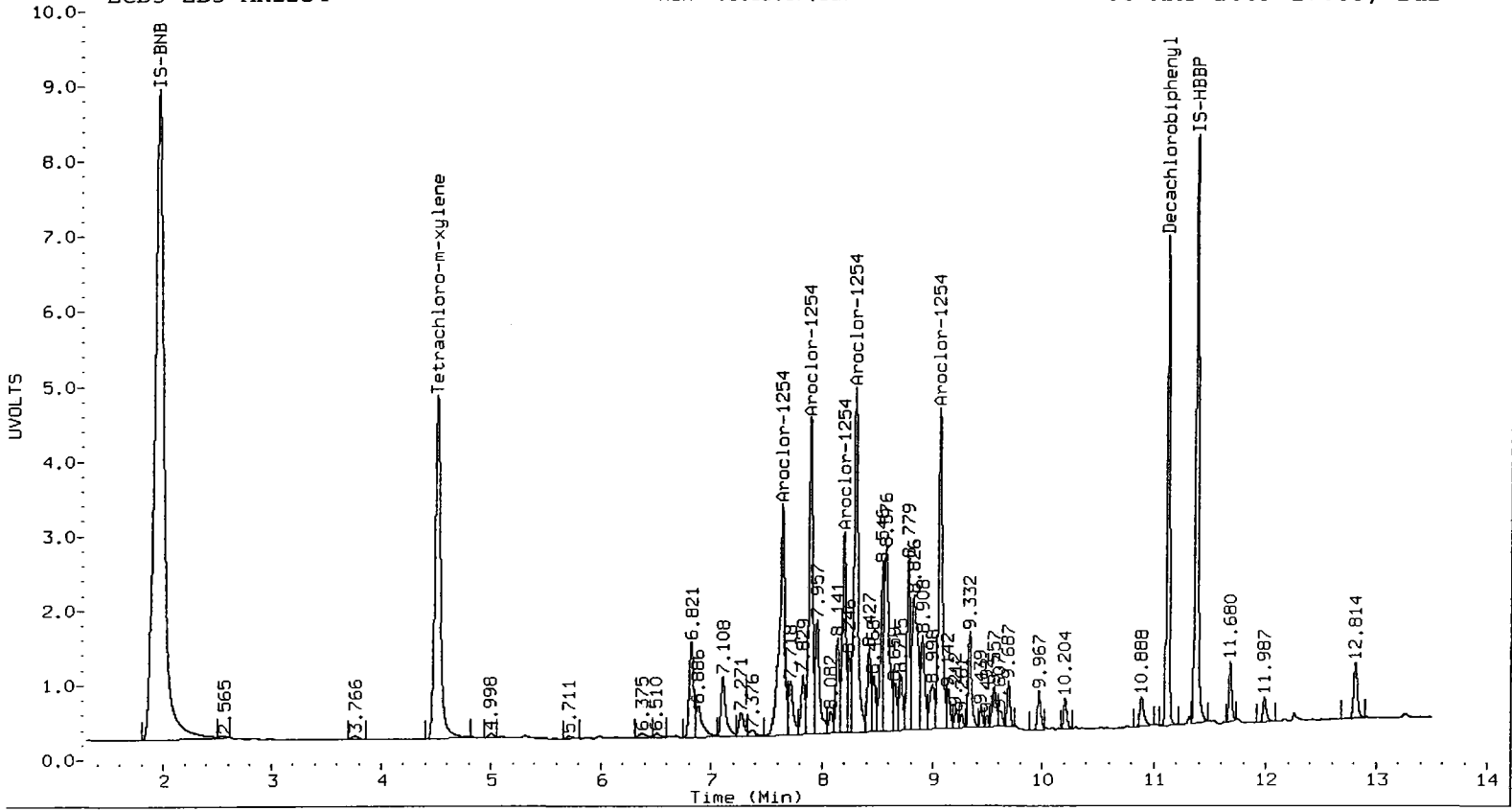
Total PCB Area Col1 (4.607 - 11.020) = 59630104 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 45154821 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B038.d
Data file 2: 20090506.b/ical-2.b/0506B038.d
Method: /chem2/ecd5.i/20090506.b/PCBl.m
Compound Sublist: AR2162
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162
Client ID:
Injection Date: 06-MAY-2009 17:25
Report Date: 05/07/2009 11:16
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.504	-0.002	8524568	5.146	0.000	7137701	25.3	23.9	5.7	Tetrachloro-m-xylene
11.119	0.000	5374896	11.844	0.000	4503657	22.7	23.3	2.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	63.3	59.8
Decachlorobiphenyl	56.8	58.4

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	25776309	-3.2
Hexabromobiphenyl	6745626	6832299	1.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	23972359	-3.9
Hexabromobiphenyl	6589208	6475379	-1.7

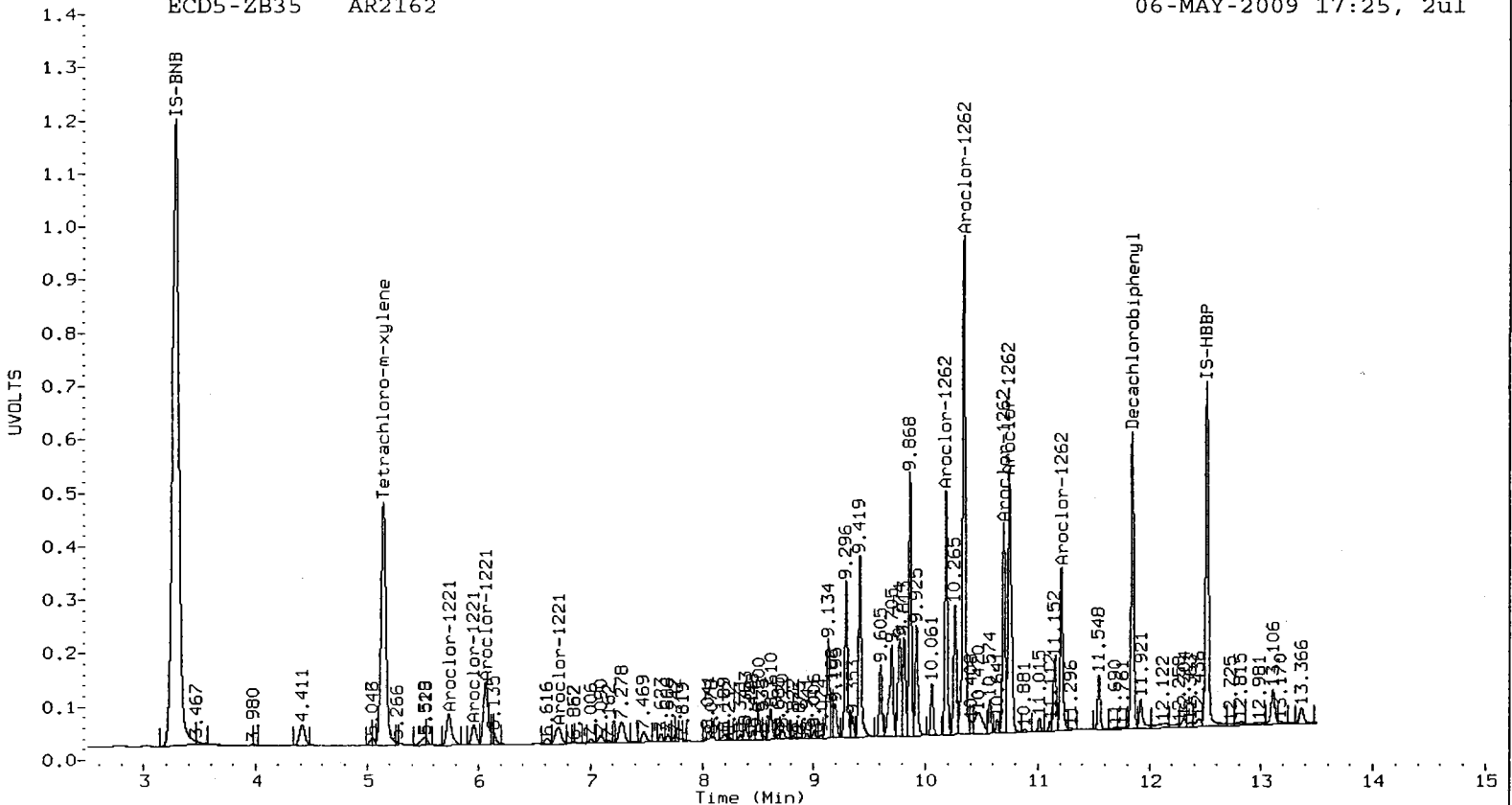
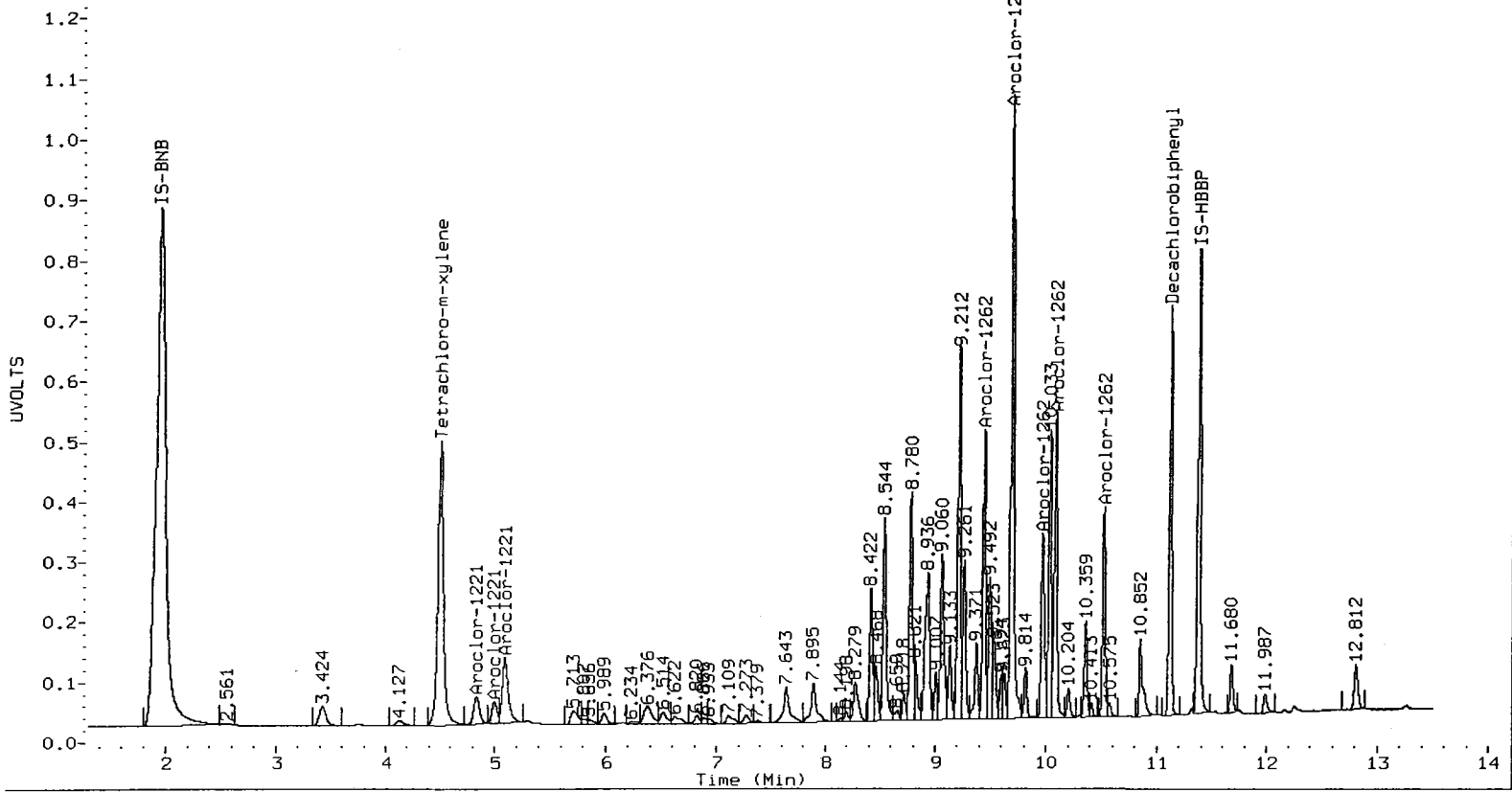
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

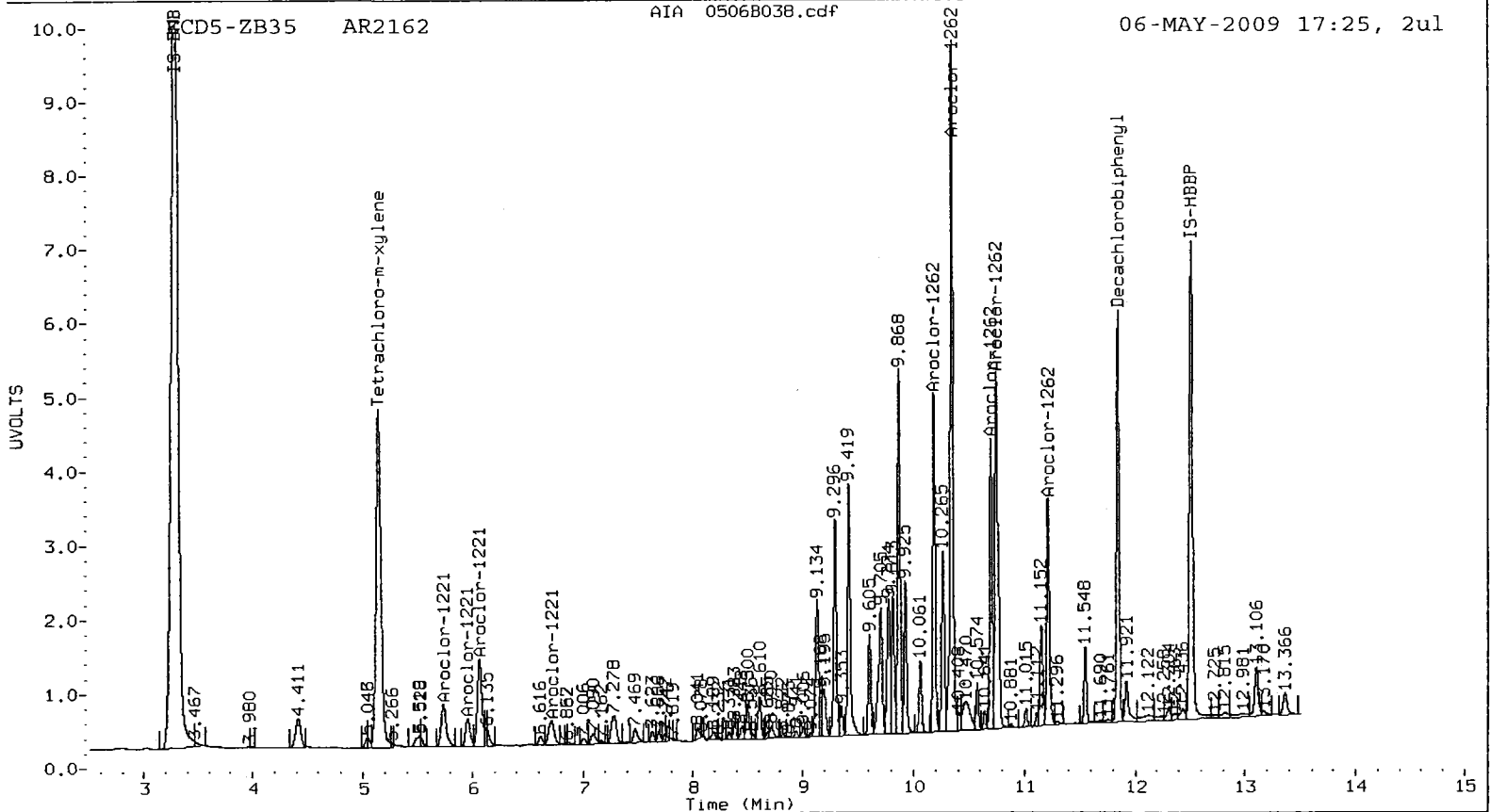
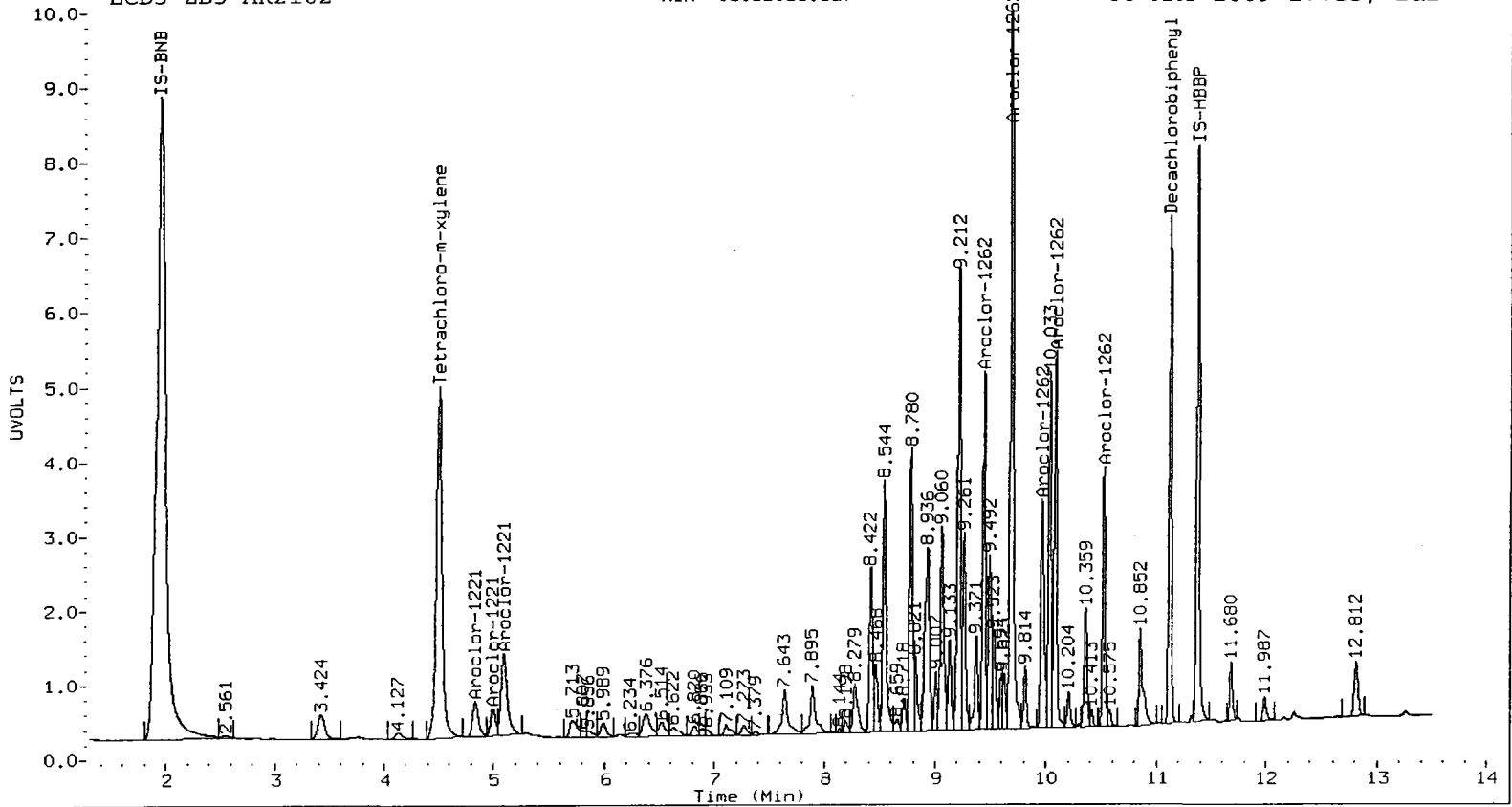
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.835	0.000	897705	250.0	1	5.739	0.000	950835	250.0
Aroclor-1221	2	4.996	0.000	588373	250.0	2	5.961	0.000	549554	250.0
Aroclor-1221	3	5.093	0.000	2196932	250.0	3	6.067	0.000	1778027	250.0
Aroclor-1221 NS	---				----	4	6.718	0.000	607869	250.0
Total Col1Ave (3 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				250.0	
Aroclor-1262	1	9.439	0.000	4293258	250.0	1	10.186	0.000	3604178	250.0
Aroclor-1262	2	9.685	0.000	9995430	250.0	2	10.345	0.000	7867180	250.0
Aroclor-1262	3	9.965	0.000	3204169	250.0	3	10.698	0.000	3171390	250.0
Aroclor-1262	4	10.083	0.000	4412557	250.0	4	10.746	0.000	4861512	250.0
Aroclor-1262	5	10.520	0.000	2993400	250.0	5	11.212	0.000	2443871	250.0
Total Col1Ave (5 peaks):				250.0	Total Col2Ave (5 peaks):				250.0	RPD = 0
Corrected Ave (4 peaks):				250.0	Corrected Ave (4 peaks):				250.0	RPD = 0

Total PCB Area Col1 (4.607 - 11.020) = 79800599 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 59313389 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/ical-1.b/0506B039.d
Data file 2: 20090506.b/ical-2.b/0506B039.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR3268
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 06-MAY-2009 17:42
Report Date: 05/07/2009 11:16
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.505	-0.002	8323798	5.144	-0.001	7055808	24.4	22.9	6.2	Tetrachloro-m-xylene
11.120	0.000	8309609	11.843	-0.001	6944346	34.6	37.3	7.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	61.0	57.3
Decachlorobiphenyl	86.6	93.4

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	26132961	-1.9
Hexabromobiphenyl	6745626	6927049	2.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	24735691	-0.9
Hexabromobiphenyl	6589208	6239683	-5.3

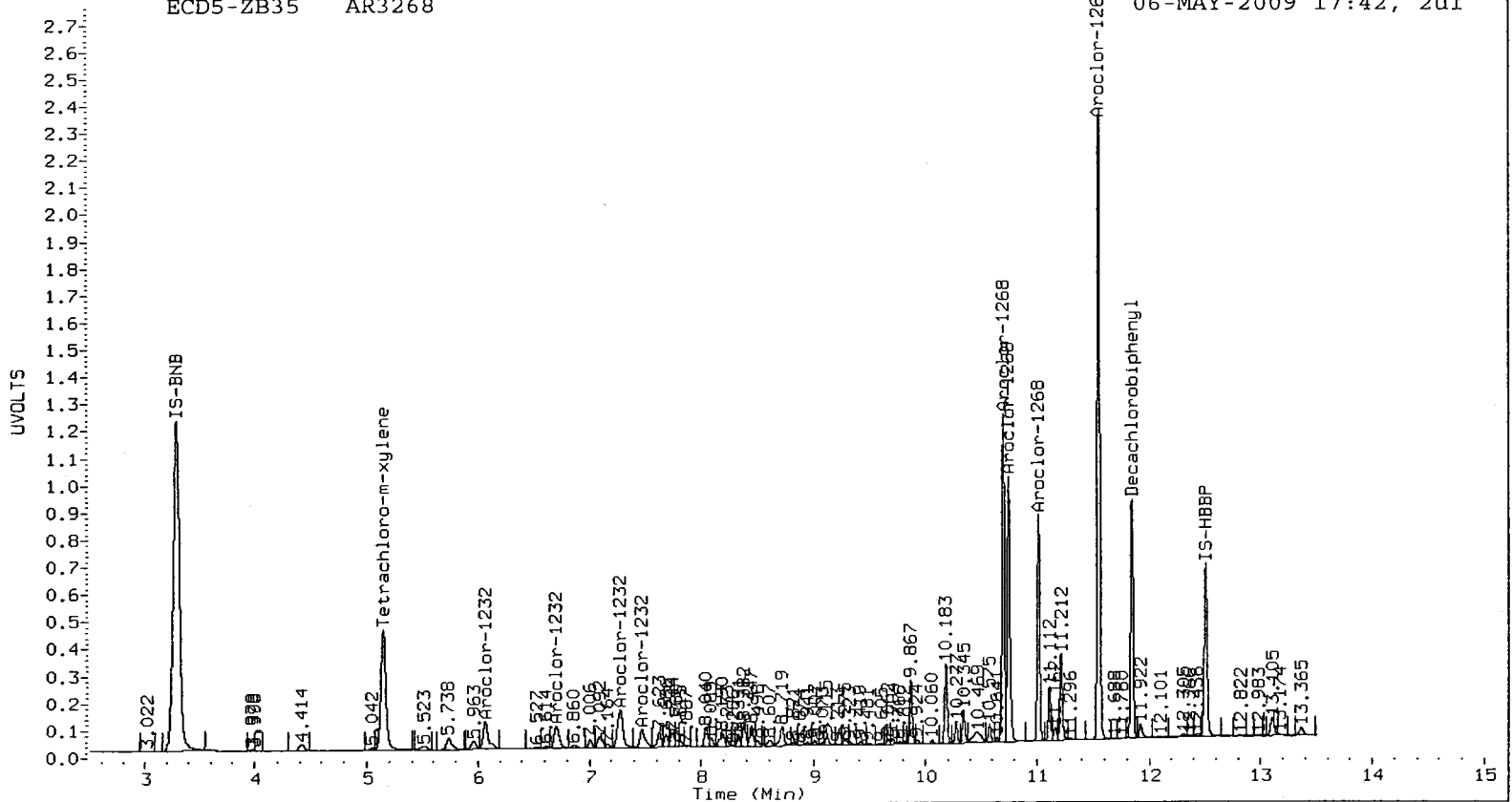
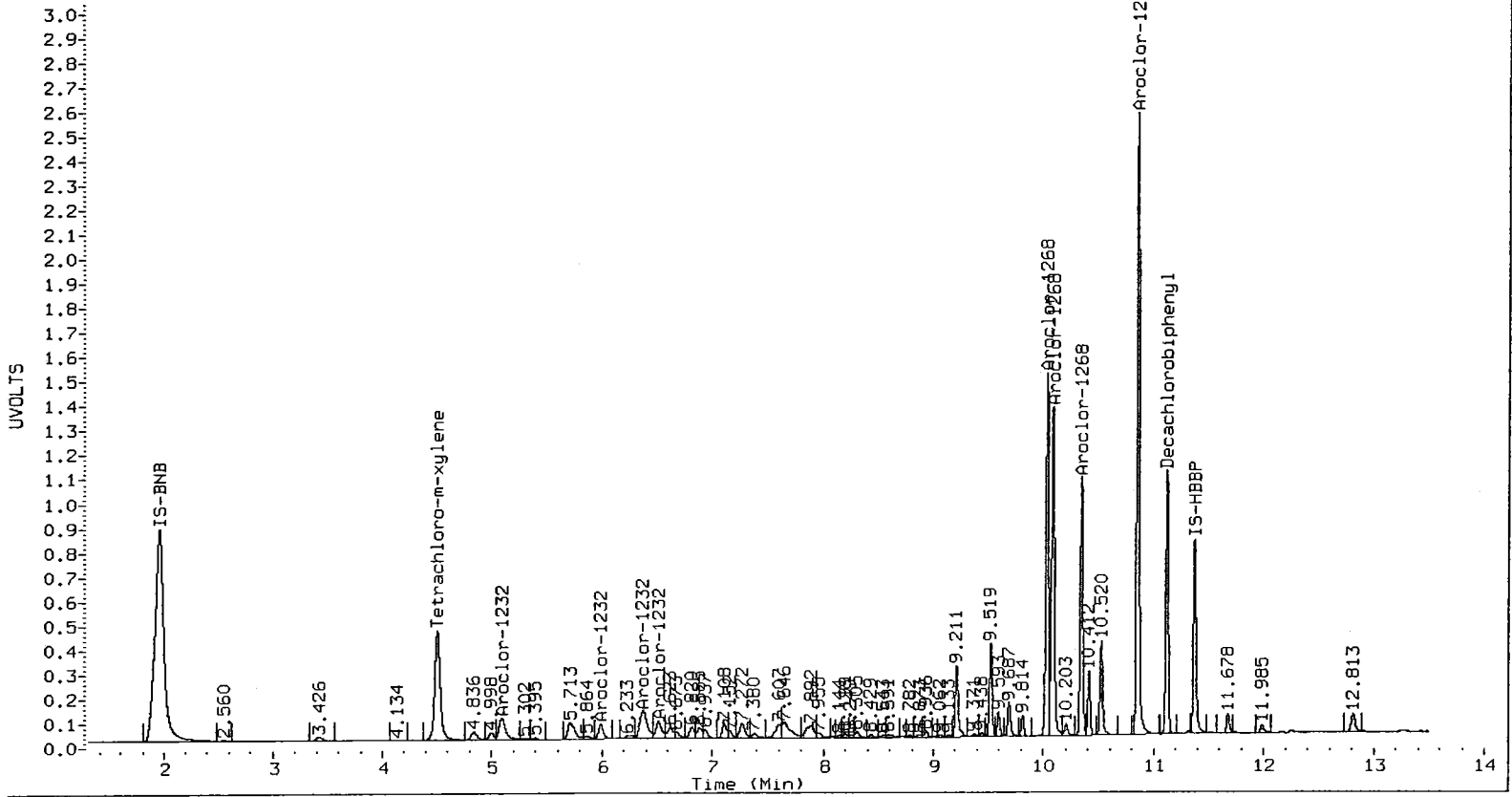
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

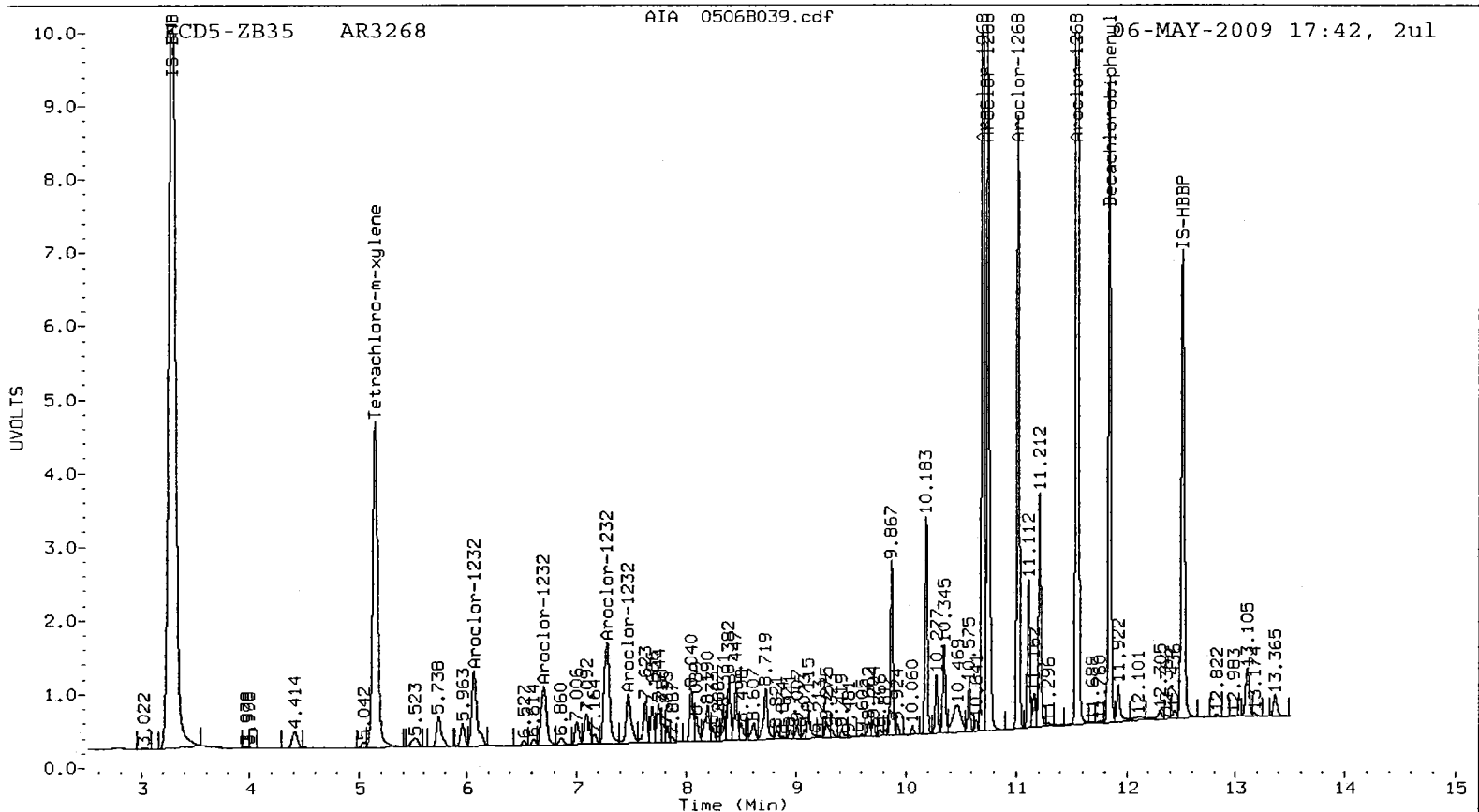
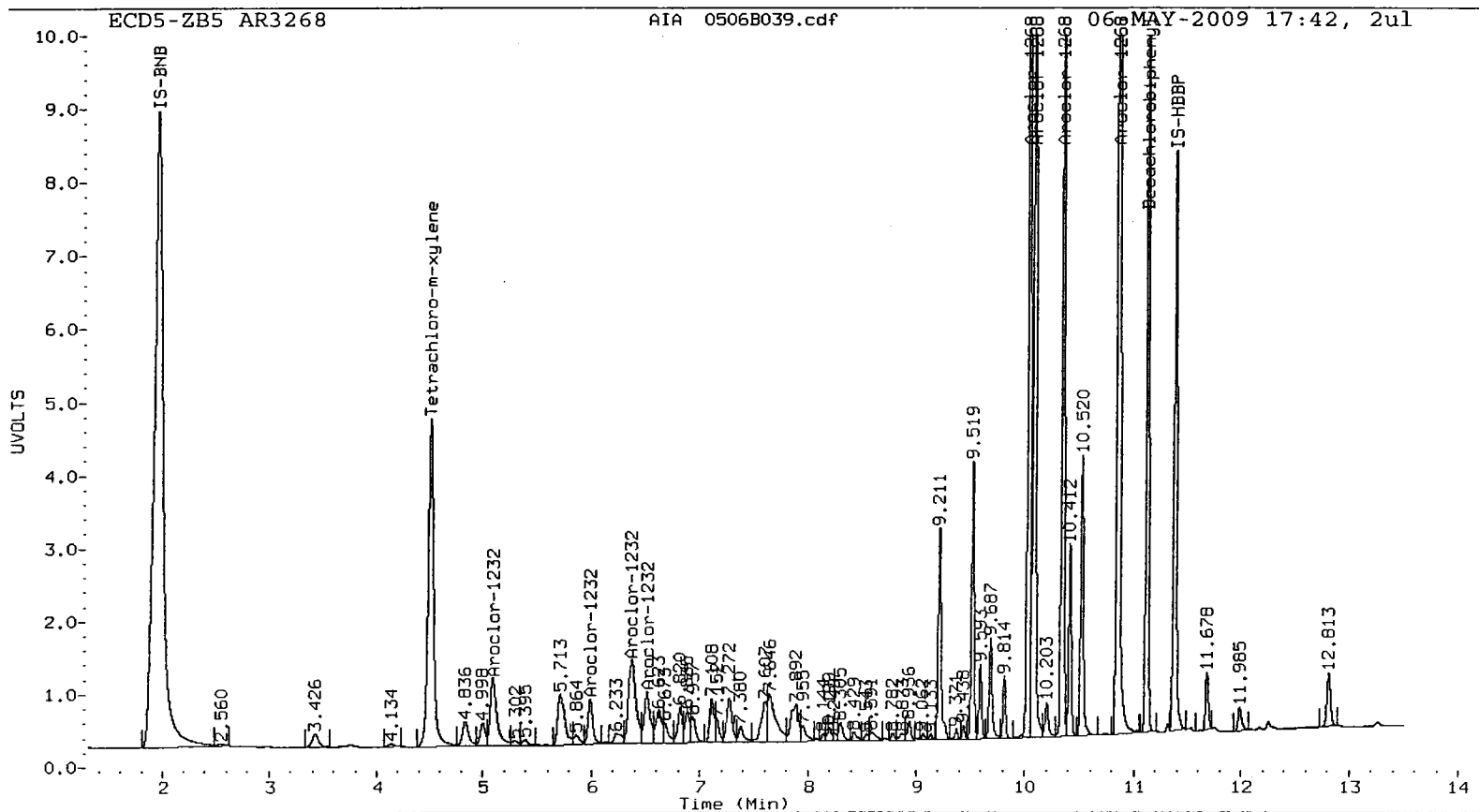
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	5.097	0.000	2028100	250.0	1	6.067	0.000	1737320	250.0
Aroclor-1232	2	5.990	0.000	931582	250.0	2	6.704	0.000	1377217	250.0
Aroclor-1232	3	6.373	0.000	2728088	250.0	3	7.278	0.000	2434665	250.0
Aroclor-1232	4	6.512	0.000	1367305	250.0	4	7.469	0.000	1056771	250.0
Total Col1Ave (4 peaks):				250.0		Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	10.032	0.000	12202495	250.0	1	10.697	0.000	8878207	250.0
Aroclor-1268	2	10.082	0.000	11545360	250.0	2	10.745	0.000	8259960	250.0
Aroclor-1268	3	10.342	0.000	8662880	250.0	3	11.015	0.000	6218032	250.0
Aroclor-1268	4	10.852	0.000	21133005	250.0	4	11.548	0.000	17466796	250.0
Total Col1Ave (4 peaks):				250.0		Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (4.607 - 11.020) = 91763858 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.246 - 11.744) = 72561380 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20090506.b/ddt-1.b/0506B040.d

ARI ID: 0.1 PPM DDTS

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
7.860	0.000	27249819	8.681	0.000	23320344	0.100	0.100	0.0	2,4-DDE
8.293	0.000	28901321	9.171	0.000	23027632	0.100	0.100	0.0	2,4-DDD
8.675	0.000	32227045	3.288	0.000	24374997	0.100	----	---	2,4-DDT
8.191	0.000	42762654	8.941	0.000	37433911	0.100	0.100	0.0	4,4-DDE
8.628	0.000	37050433	9.484	0.000	60982240	0.100	0.200	---	4,4-DDD
8.999	0.000	31338117	9.787	0.000	26599143	0.100	0.100	0.0	4,4-DDT

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20090506.b/ddt-1.b/0506B041.d

ARI ID: DDTS BD

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
0.000	-7.860	0	0.000	-8.681	0	0.000	0.000	---	2,4-DDE
8.283	-0.011	41366	0.000	-9.171	0	0.000	0.000	---	2,4-DDD
0.000	-8.675	0	3.284	-0.004	26187912	0.000	----	---	2,4-DDT
8.199	0.008	136632	8.941	0.000	96442	0.000	0.000	20.9	4,4-DDE
8.637	0.009	4656323	9.481	-0.003	3354520	0.012	0.010	---	4,4-DDD
9.000	0.001	22489829	9.787	-0.001	18080263	0.066	0.063	4.9	4,4-DDT

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/06/09

Date Analyzed :05/06/09

Lab Standard ID: AR1242

Time Analyzed :2343

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1242-1	5.99	5.89	6.09	222.1	250.0	-11.2
Aroclor-1242-2	6.37	6.27	6.47	226.5	250.0	-9.4
Aroclor-1242-3	6.51	6.41	6.61	217.9	250.0	-12.8
Aroclor-1242-4	7.27	7.17	7.37	204.4	250.0	-18.2

AVERAGE %D = 12.9

FORM VII PCB

OW90 : 00452

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/06/09

Date Analyzed :05/06/09

Lab Standard ID: AR1242

Time Analyzed :2343

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
===== Aroclor-1242-1	6.70	6.60	6.80	232.3	250.0	-7.1
Aroclor-1242-2	7.28	7.18	7.38	236.6	250.0	-5.4
Aroclor-1242-3	7.47	7.37	7.57	229.5	250.0	-8.2
Aroclor-1242-4	8.38	8.28	8.48	233.1	250.0	-6.7

AVERAGE %D = 6.8

FORM VII PCB

OW90 : 00453

Analytical Resources Inc.
Dual Column PCB Quantitation Report

YZ 5/8/09

Data file 1: 20090506.b/0506-1.b/0506B060.d
Data file 2: 20090506.b/0506-2.b/0506B060.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 06-MAY-2009 23:43
Report Date: 05/08/2009 11:55
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.507	-0.001	6848380	5.146	0.001	5875610	20.3	19.0	6.6	Tetrachloro-m-xylene
11.120	-0.001	3891405	11.844	0.001	3677230	18.4	17.3	6.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	50.6	47.4
Decachlorobiphenyl	46.0	43.3

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	25896424	-2.8
Hexabromobiphenyl	6745626	6108222	-9.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	24897156	-0.2
Hexabromobiphenyl	6589208	7128477	8.2

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

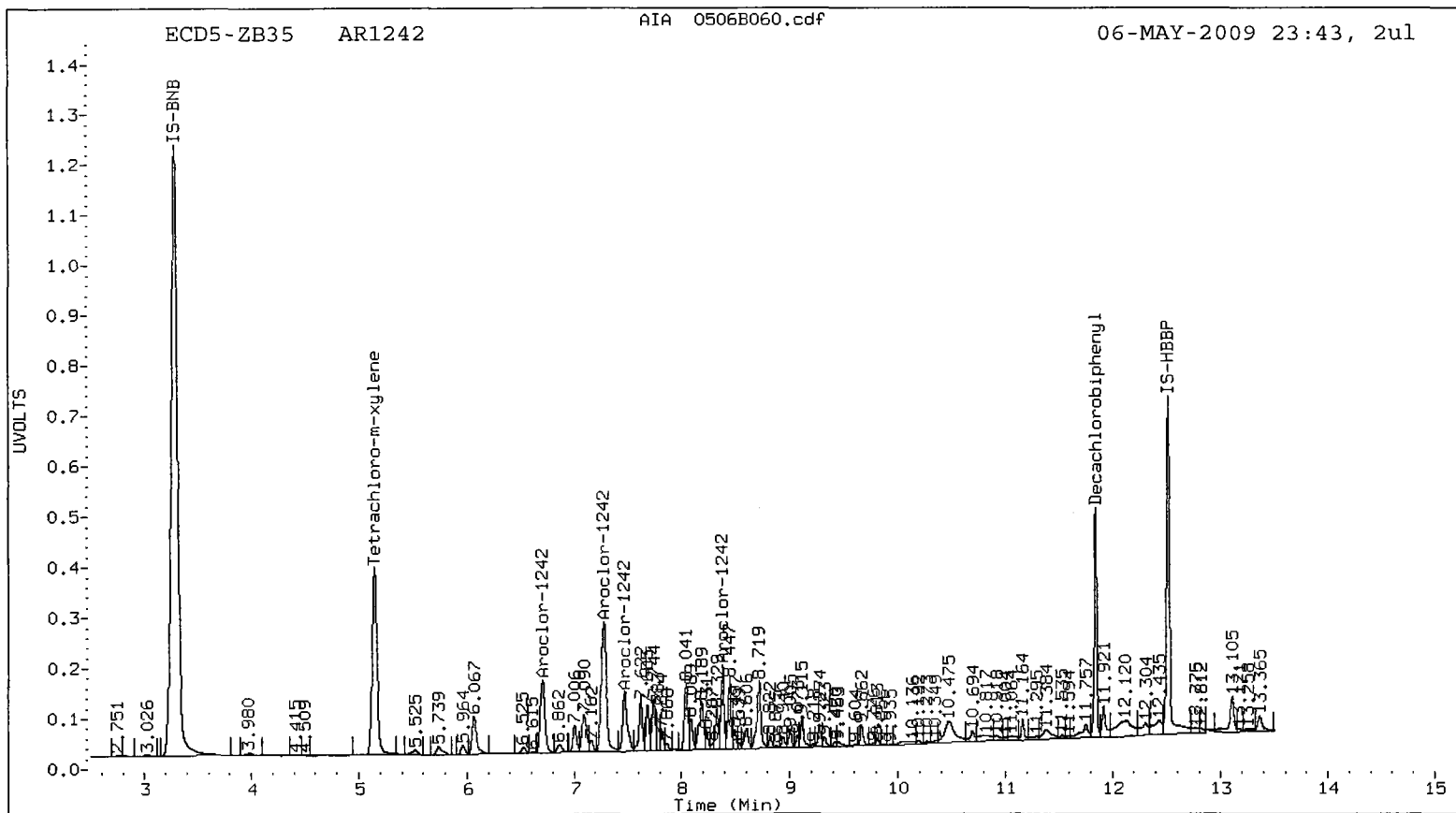
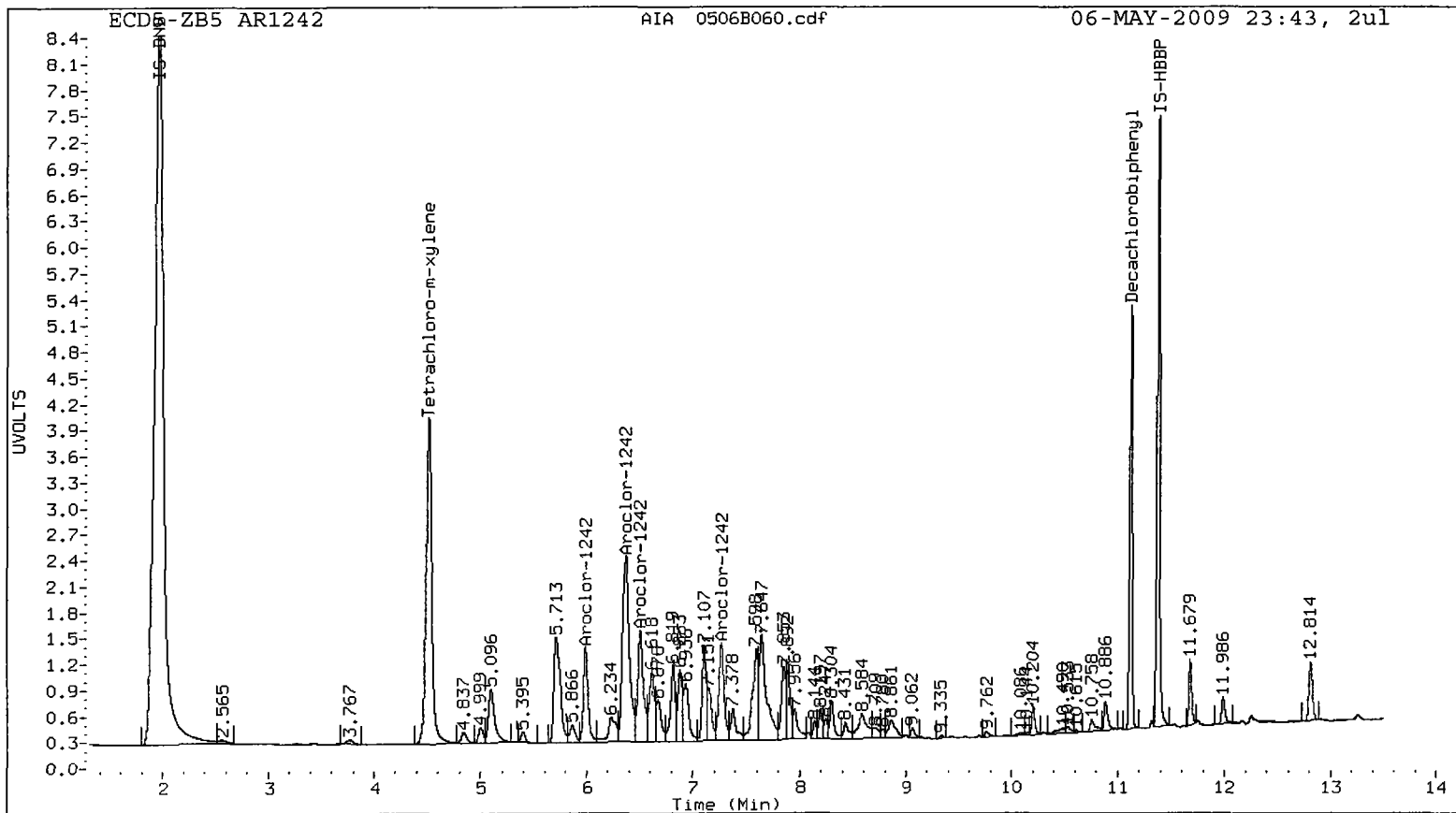
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1242	1	5.990	0.000	1732967	222.1	1	6.701	0.000	2266882	232.3	
Aroclor-1242	2	6.371	0.000	4922606	226.5	2	7.277	0.000	4449562	236.6	
Aroclor-1242	3	6.510	0.000	2319493	217.9	3	7.469	0.000	1815669	229.5	
Aroclor-1242	4	7.271	0.000	1967318	204.4	4	8.381	0.000	1638853	233.1	
Total Col1Ave (4 peaks):				217.7		Total Col2Ave (4 peaks):				232.9	RPD = 7
Corrected Ave (3 peaks):				214.8		Corrected Ave (3 peaks):				231.7	RPD = 8

Total PCB Area Col1 (4.608 - 11.022) = 37995223 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.245 - 11.743) = 35202165 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.



0400 : 00456

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB5

Instrument: ECD5

Init. Calib. Date: 05/06/09

Date Analyzed :05/06/09

Lab Standard ID: AR1660

Time Analyzed :0000

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1016-1	5.99	5.89	6.09	253.2	250.0	1.3
Aroclor-1016-2	6.37	6.27	6.47	242.8	250.0	-2.9
Aroclor-1016-3	6.51	6.41	6.61	240.1	250.0	-4.0
Aroclor-1016-4	6.82	6.72	6.92	245.6	250.0	-1.8

AVERAGE %D = 2.5

Date Analyzed :05/06/09

Lab Standard ID: AR1660

Time Analyzed :0000

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1260-1	9.21	9.11	9.31	225.1	250.0	-9.9
Aroclor-1260-2	9.44	9.34	9.54	223.6	250.0	-10.6
Aroclor-1260-3	9.69	9.59	9.79	232.4	250.0	-7.0
Aroclor-1260-4	9.97	9.87	10.07	230.5	250.0	-7.8
Aroclor-1260-5	10.09	9.99	10.19	238.5	250.0	-4.6

AVERAGE %D = 8.0

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/06/09

Date Analyzed :05/06/09

Lab Standard ID: AR1660

Time Analyzed :0000

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1016-1	6.70	6.60	6.80	224.9	250.0	-10.0
Aroclor-1016-2	7.27	7.18	7.38	233.2	250.0	-6.7
Aroclor-1016-3	7.47	7.37	7.57	231.9	250.0	-7.2
Aroclor-1016-4	8.04	7.94	8.14	226.1	250.0	-9.5

AVERAGE %D = 8.3

Date Analyzed :05/06/09

Lab Standard ID: AR1660

Time Analyzed :0000

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1260-1	10.19	10.09	10.29	241.9	250.0	-3.2
Aroclor-1260-2	10.27	10.16	10.36	244.1	250.0	-2.4
Aroclor-1260-3	10.34	10.24	10.44	246.0	250.0	-1.6
Aroclor-1260-4	10.75	10.65	10.85	242.5	250.0	-3.0

AVERAGE %D = 2.5

Analytical Resources Inc.
Dual Column PCB Quantitation Report

YE 5/8/09

Data file 1: 20090506.b/0506-1.b/0506B061.d
Data file 2: 20090506.b/0506-2.b/0506B061.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 06-MAY-2009 00:00
Report Date: 05/08/2009 11:55
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.505	-0.003	6985382	5.144	-0.001	5966014	20.2	18.9	6.6	Tetrachloro-m-xylene
11.121	0.000	4025039	11.844	0.001	3544666	18.3	18.8	2.2	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	50.5	47.3
Decachlorobiphenyl	45.9	46.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	26463812	-0.6
Hexabromobiphenyl	6745626	6334805	-6.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	25327518	1.5
Hexabromobiphenyl	6589208	6341607	-3.8

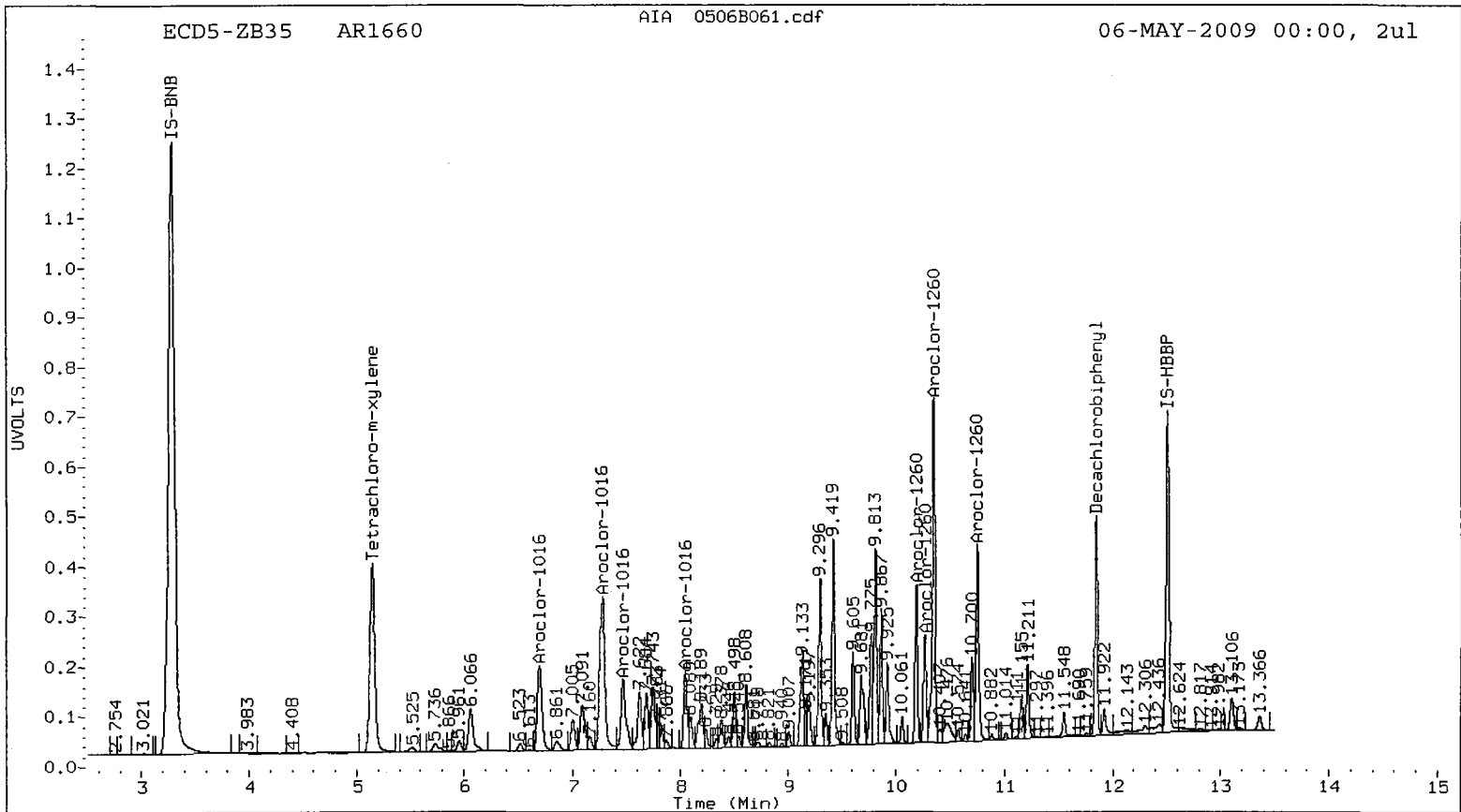
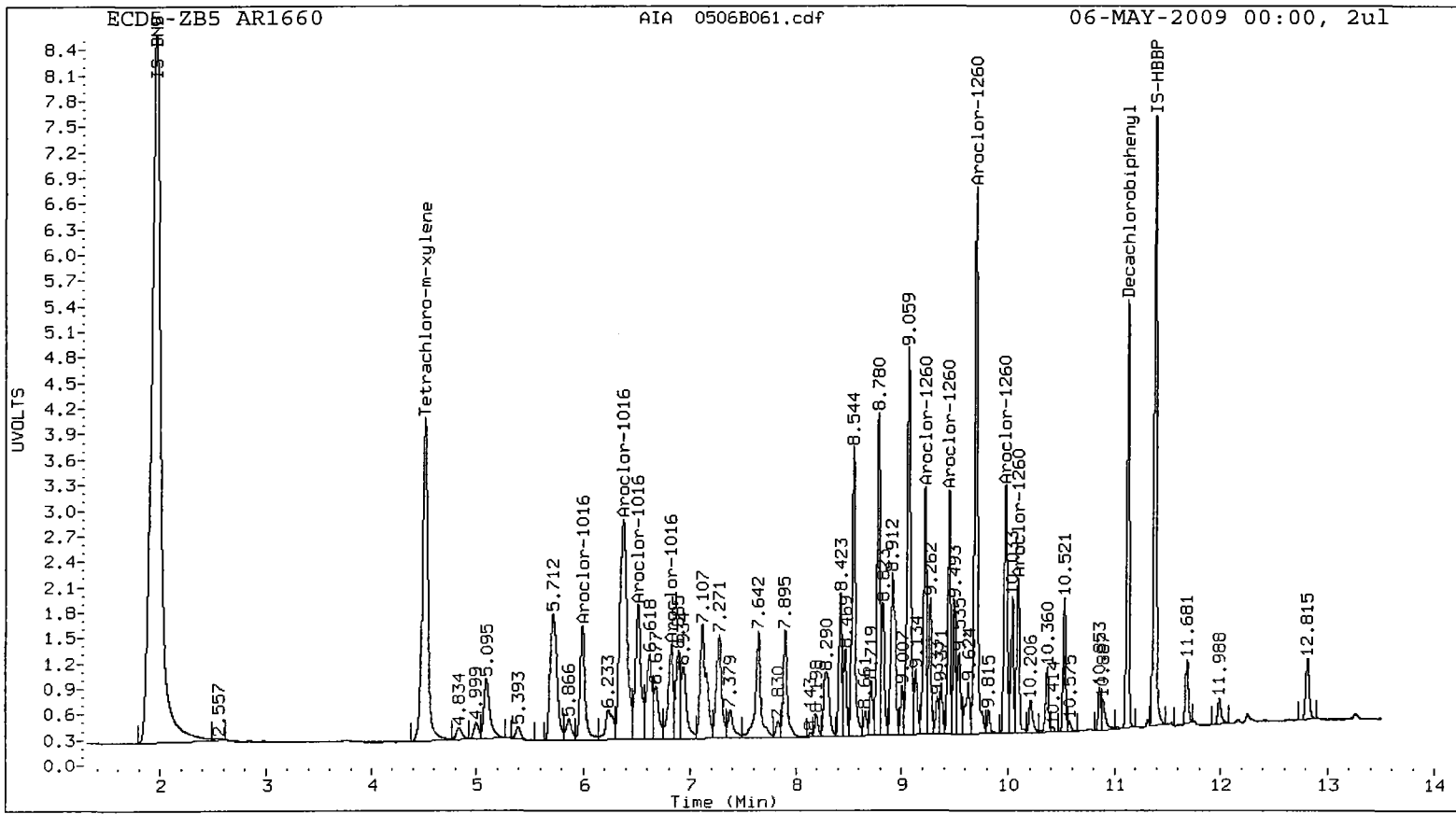
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.989	-0.002	2193006	253.2	1	6.700	-0.002	2709143	224.9	
Aroclor-1016	2	6.370	0.001	6072064	242.8	2	7.275	-0.003	5360064	233.2	
Aroclor-1016	3	6.509	-0.001	2898858	240.1	3	7.468	0.000	2193184	231.9	
Aroclor-1016	4	6.818	-0.001	1760492	245.6	4	8.040	0.000	1600927	226.1	
Total Col1Ave (4 peaks):				245.4		Total Col2Ave (4 peaks):				229.0	RPD = 7
Corrected Ave (3 peaks):				242.8		Corrected Ave (3 peaks):				227.6	RPD = 6
Aroclor-1260	1	9.213	0.000	2697185	225.1	1	10.186	0.000	2546949	241.9	
Aroclor-1260	2	9.439	-0.001	2500575	223.6	2	10.265	0.000	1899168	244.1	
Aroclor-1260	3	9.686	-0.001	6436802	232.4	3	10.345	0.000	6014657	246.0	
Aroclor-1260	4	9.967	0.000	3065825	230.5	4	10.746	0.000	3624110	242.5	
Aroclor-1260	5	10.085	0.000	1627771	238.5	NS	---			---	
Total Col1Ave (5 peaks):				230.0		Total Col2Ave (4 peaks):				243.6	RPD = 6
Corrected Ave (4 peaks):				227.9		Corrected Ave (3 peaks):				242.8	RPD = 6

Total PCB Area Col1 (4.608 - 11.022) = 86060940 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.245 - 11.743) = 71670158 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/06/09

Date Analyzed :05/07/09

Lab Standard ID: AR1254

Time Analyzed :0325

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1254-1	7.64	7.54	7.74	251.2	250.0	0.5
Aroclor-1254-2	7.89	7.79	7.99	243.3	250.0	-2.7
Aroclor-1254-3	8.20	8.10	8.30	244.1	250.0	-2.3
Aroclor-1254-4	8.30	8.20	8.40	240.2	250.0	-3.9
Aroclor-1254-5	9.06	8.96	9.16	242.8	250.0	-2.9

AVERAGE %D = 2.5

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/06/09

Date Analyzed :05/07/09

Lab Standard ID: AR1254

Time Analyzed :0325

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1254-1	8.61	8.51	8.71	244.6	250.0	-2.2
Aroclor-1254-2	9.01	8.91	9.11	243.7	250.0	-2.5
Aroclor-1254-3	9.12	9.02	9.22	245.2	250.0	-1.9
Aroclor-1254-4	9.28	9.18	9.38	248.2	250.0	-0.7
Aroclor-1254-5	9.67	9.57	9.77	245.2	250.0	-1.9

AVERAGE %D = 1.8

FORM VII PCB

OW90:00463

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/0506-1.b/0506B073.d
Data file 2: 20090506.b/0506-2.b/0506B073.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 07-MAY-2009 03:25
Report Date: 05/08/2009 11:30
Matrix: SOIL
Dilution Factor: 1.000

YE 5/8/09

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.507	0.000	8211159	5.147	0.002	7237800	23.9	22.8	4.9	Tetrachloro-m-xylene
11.122	0.000	5518719	11.845	0.003	4522260	22.3	23.5	5.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	59.8	56.9
Decachlorobiphenyl	55.7	58.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	26286832	-1.3
Hexabromobiphenyl	6745626	7155381	6.1

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	25546915	2.4
Hexabromobiphenyl	6589208	6445260	-2.2

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	7.642	0.000	5218793	251.2	1	8.608	0.000	3193676	244.6
Aroclor-1254	2	7.895	0.000	4892346	243.3	2	9.007	0.000	2197530	243.7
Aroclor-1254	3	8.197	0.000	3058307	244.1	3	9.116	0.000	4772191	245.2
Aroclor-1254	4	8.304	0.000	5895829	240.2	4	9.276	0.000	4879395	248.2
Aroclor-1254	5	9.061	0.000	5140495	242.8	5	9.667	0.000	3055714	245.2
Total Col1Ave (5 peaks):				244.3	Total Col2Ave (5 peaks):				245.4	RPD = 0
Corrected Ave (4 peaks):				242.6	Corrected Ave (4 peaks):				244.7	RPD = 1

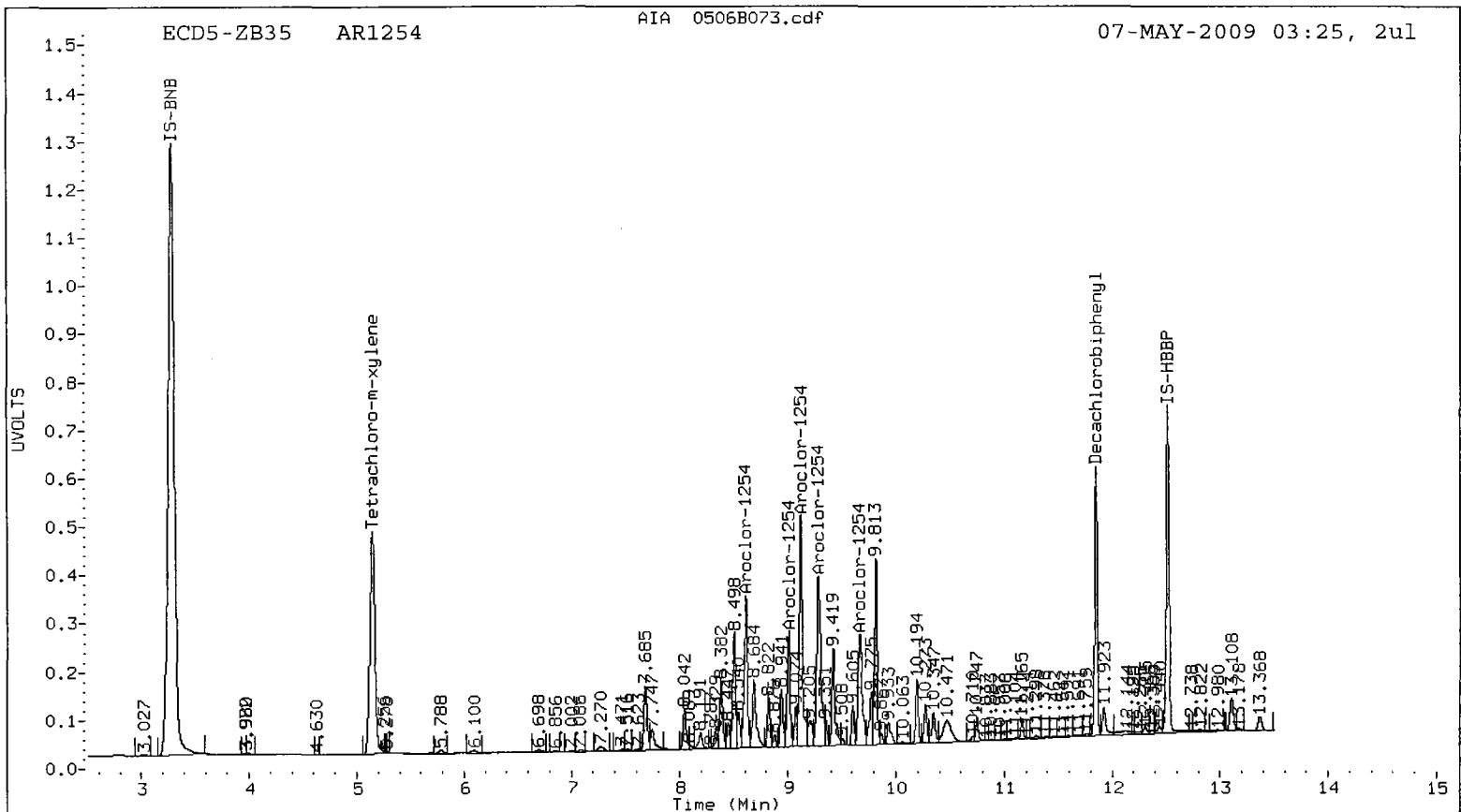
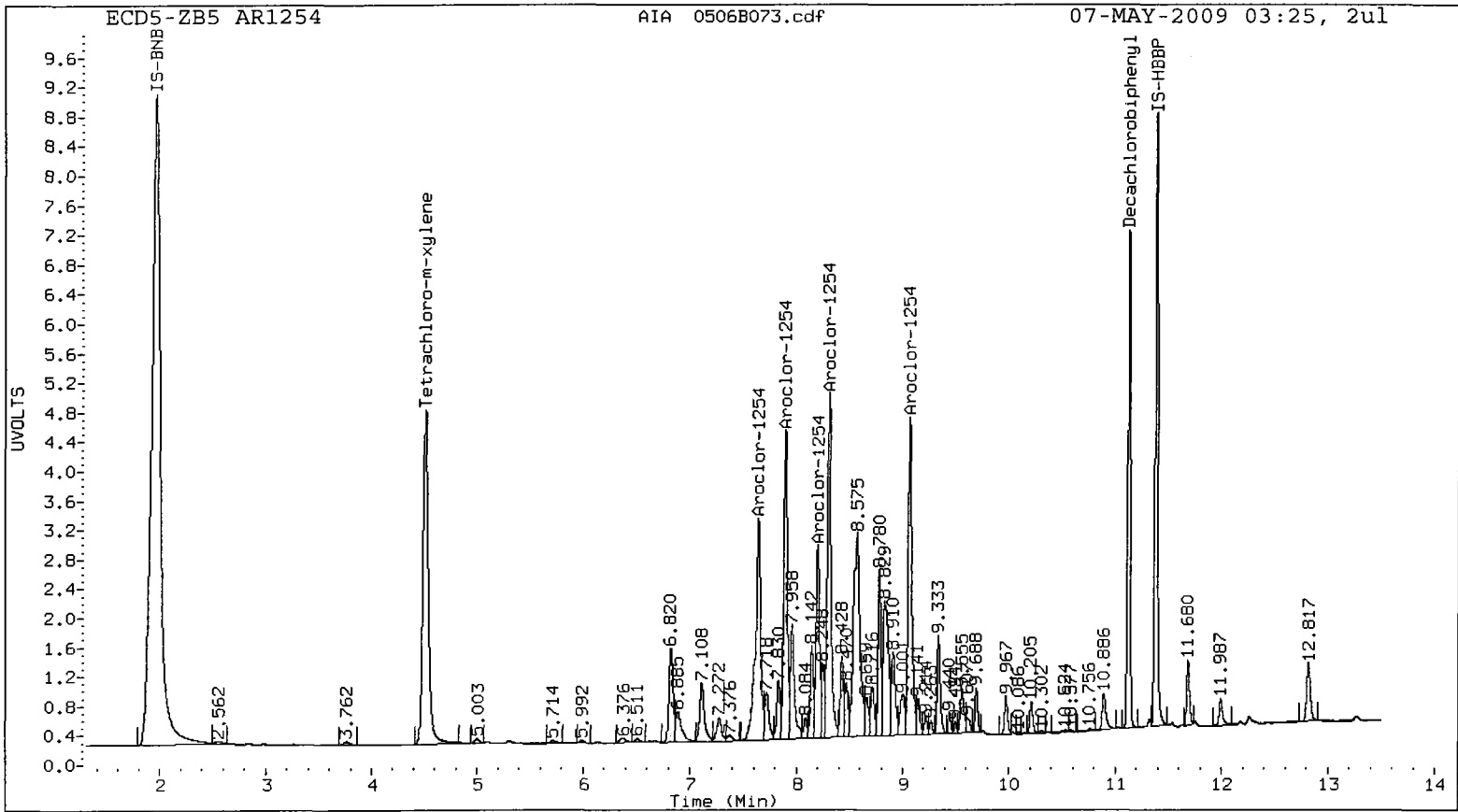
Total PCB Area Col1 (4.607 - 11.022) = 58535503 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.245 - 11.743) = 46007342 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0W90:00465



7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/06/09

Date Analyzed :05/07/09

Lab Standard ID: AR1660

Time Analyzed :0342

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1016-1	5.99	5.89	6.09	260.0	250.0	4.0
Aroclor-1016-2	6.37	6.27	6.47	258.4	250.0	3.4
Aroclor-1016-3	6.51	6.41	6.61	254.3	250.0	1.7
Aroclor-1016-4	6.82	6.72	6.92	255.7	250.0	2.3

AVERAGE %D = 2.8

Date Analyzed :05/07/09

Lab Standard ID: AR1660

Time Analyzed :0342

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1260-1	9.21	9.11	9.31	232.2	250.0	-7.1
Aroclor-1260-2	9.44	9.34	9.54	232.7	250.0	-6.9
Aroclor-1260-3	9.69	9.59	9.79	229.8	250.0	-8.1
Aroclor-1260-4	9.97	9.87	10.07	240.3	250.0	-3.9
Aroclor-1260-5	10.09	9.99	10.19	245.5	250.0	-1.8

AVERAGE %D = 5.6

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

ARI Job No.: OW90

Project: FORMER CUSTOM PLYWOOD SITE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/06/09

Date Analyzed :05/07/09

Lab Standard ID: AR1660

Time Analyzed :0342

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1016-1	6.70	6.60	6.80	228.9	250.0	-8.4
Aroclor-1016-2	7.28	7.18	7.38	238.2	250.0	-4.7
Aroclor-1016-3	7.47	7.37	7.57	240.2	250.0	-3.9
Aroclor-1016-4	8.04	7.94	8.14	234.9	250.0	-6.0

AVERAGE %D = 5.8

Date Analyzed :05/07/09

Lab Standard ID: AR1660

Time Analyzed :0342

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1260-1	10.19	10.09	10.29	245.2	250.0	-1.9
Aroclor-1260-2	10.27	10.16	10.36	248.9	250.0	-0.4
Aroclor-1260-3	10.35	10.24	10.44	249.8	250.0	-0.1
Aroclor-1260-4	10.75	10.65	10.85	245.2	250.0	-1.9

AVERAGE %D = 1.1

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/0506-1.b/0506B074.d
Data file 2: 20090506.b/0506-2.b/0506B074.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID: *57809*
Injection Date: 07-MAY-2009 03:42
Report Date: 05/08/2009 11:30
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.508	0.000 6984248	5.146 0.001 6133503	20.1	19.3	4.0	Tetrachloro-m-xylene
11.122	0.000 4654019	11.845 0.002 3827980	18.7	19.6	4.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	50.3	48.3
Decachlorobiphenyl	46.9	49.1

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	26597312	-0.1
Hexabromobiphenyl	6745626	7168475	6.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	25511700	2.2
Hexabromobiphenyl	6589208	6539607	-0.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

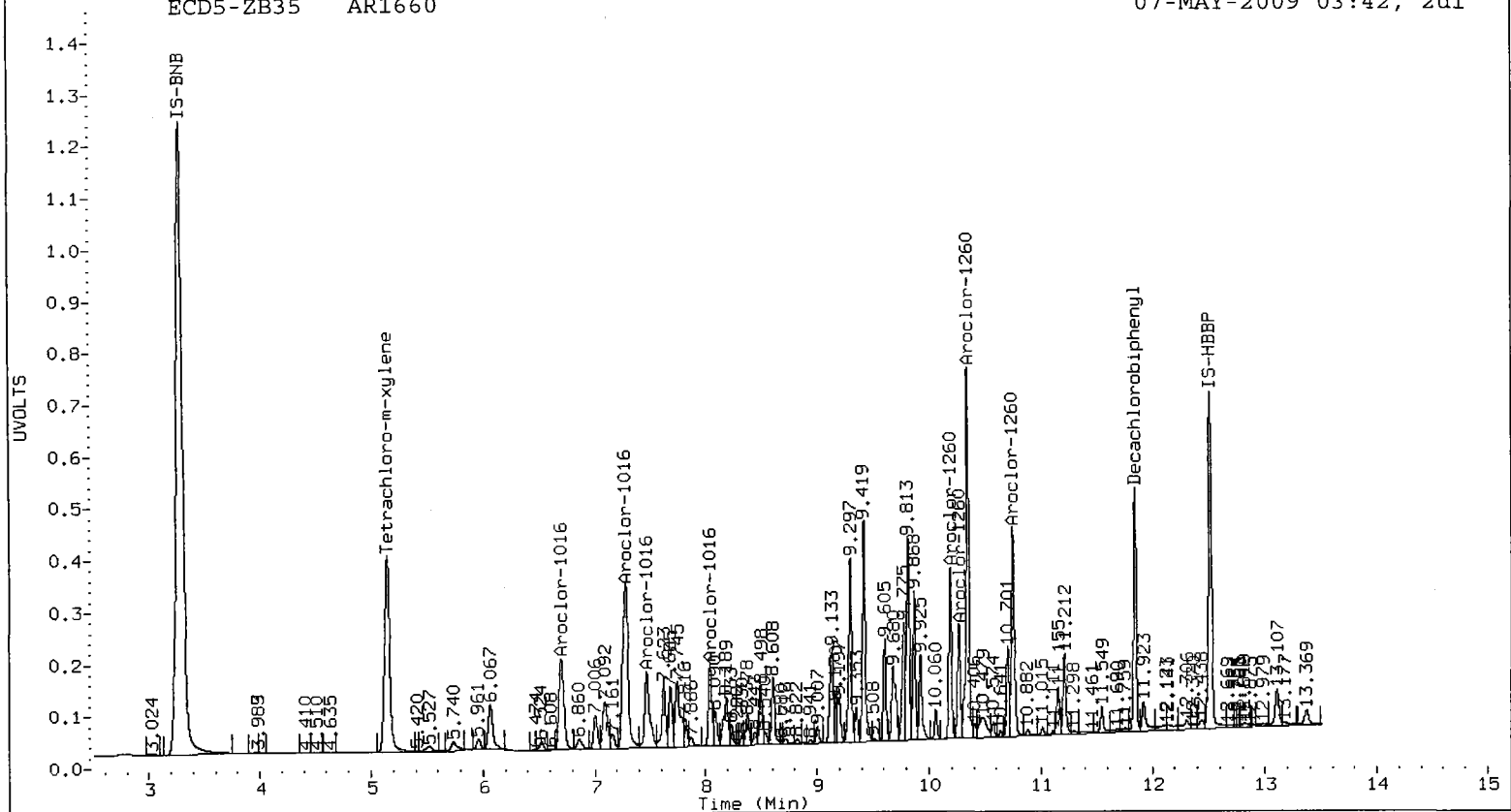
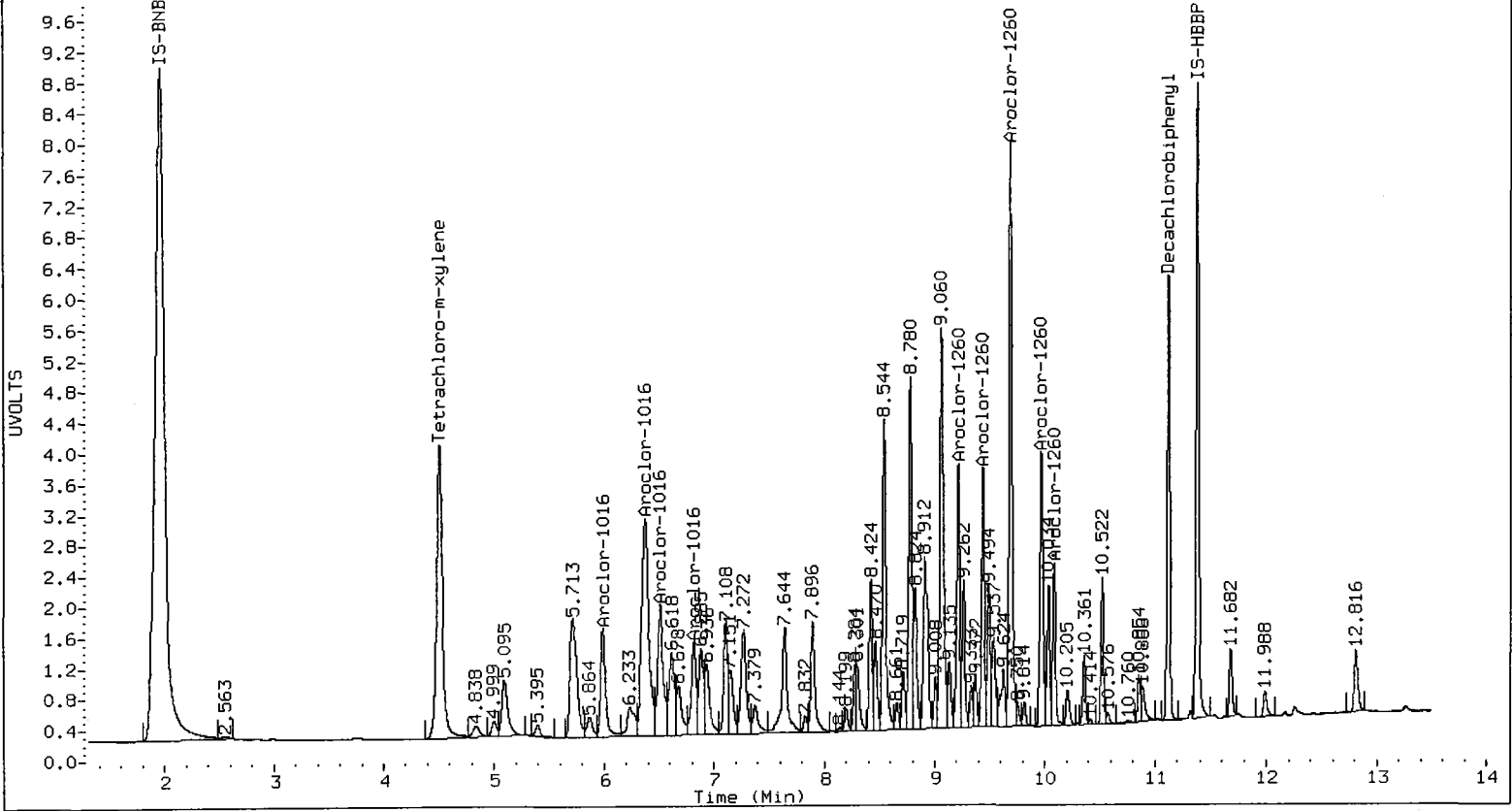
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.990	0.000	2263381	260.0	1	6.701	-0.001	2778345	228.9	
Aroclor-1016	2	6.369	0.000	6495544	258.4	2	7.276	-0.002	5515713	238.2	
Aroclor-1016	3	6.510	0.000	3085865	254.3	3	7.469	0.001	2288573	240.2	
Aroclor-1016	4	6.820	0.000	1842376	255.7	4	8.041	0.000	1674672	234.9	
Total Col1Ave (4 peaks):				257.1		Total Col2Ave (4 peaks):				235.6	RPD = 9
Corrected Ave (3 peaks):				256.1		Corrected Ave (3 peaks):				234.0	RPD = 9

Aroclor-1260	1	9.213	0.000	3147707	232.2	1	10.187	0.000	2662260	245.2	
Aroclor-1260	2	9.440	0.000	2945077	232.7	2	10.265	0.000	1997370	248.9	
Aroclor-1260	3	9.687	0.000	7201235	229.8	3	10.345	0.000	6298874	249.8	
Aroclor-1260	4	9.967	0.000	3616459	240.3	4	10.746	0.000	3779277	245.2	
Aroclor-1260	5	10.085	0.000	1895600	245.5	NS	---			----	
Total Col1Ave (5 peaks):				236.1		Total Col2Ave (4 peaks):				247.3	RPD = 5
Corrected Ave (4 peaks):				233.7		Corrected Ave (3 peaks):				246.4	RPD = 5

Total PCB Area Col1 (4.608 - 11.022) = 96771838 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.245 - 11.743) = 75050875 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



PCB Analysis
QC Raw Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1


Sample ID: MB-050409

METHOD BLANK

Lab Sample ID: MB-050409

LIMS ID: 09-10072

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: NA

Date Received: NA

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 00:17

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.0 g

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.0%
Tetrachlorometaxylene	74.8%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

YZ 5/8/09

Data file 1: 20090506.b/0506-1.b/0506B062.d
Data file 2: 20090506.b/0506-2.b/0506B062.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90MBS1
Client ID: OW90MBS1
Injection Date: 07-MAY-2009 00:17
Report Date: 05/08/2009 11:29
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.506	0.001	12395281	5.146	0.001	10729902	29.9	28.3	5.7	Tetrachloro-m-xylene
11.121	0.000	7174333	11.844	0.001	6268845	26.1	27.6	5.8	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	74.9	70.7
Decachlorobiphenyl	65.2	69.1

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	26636297	31694896	19.0
Hexabromobiphenyl	6745626	7943454	17.8

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24954796	30476382	22.1
Hexabromobiphenyl	6589208	7612133	15.5

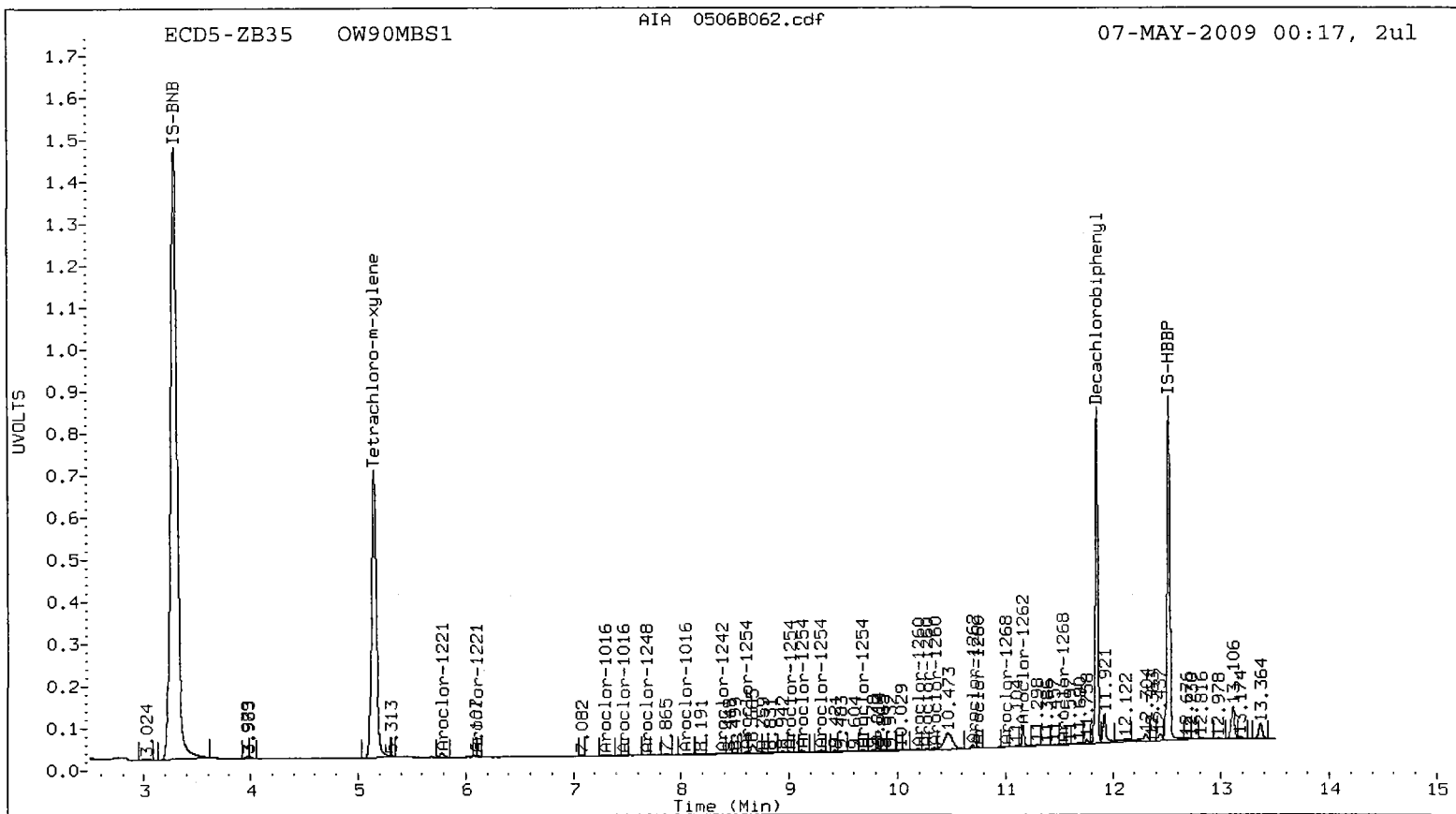
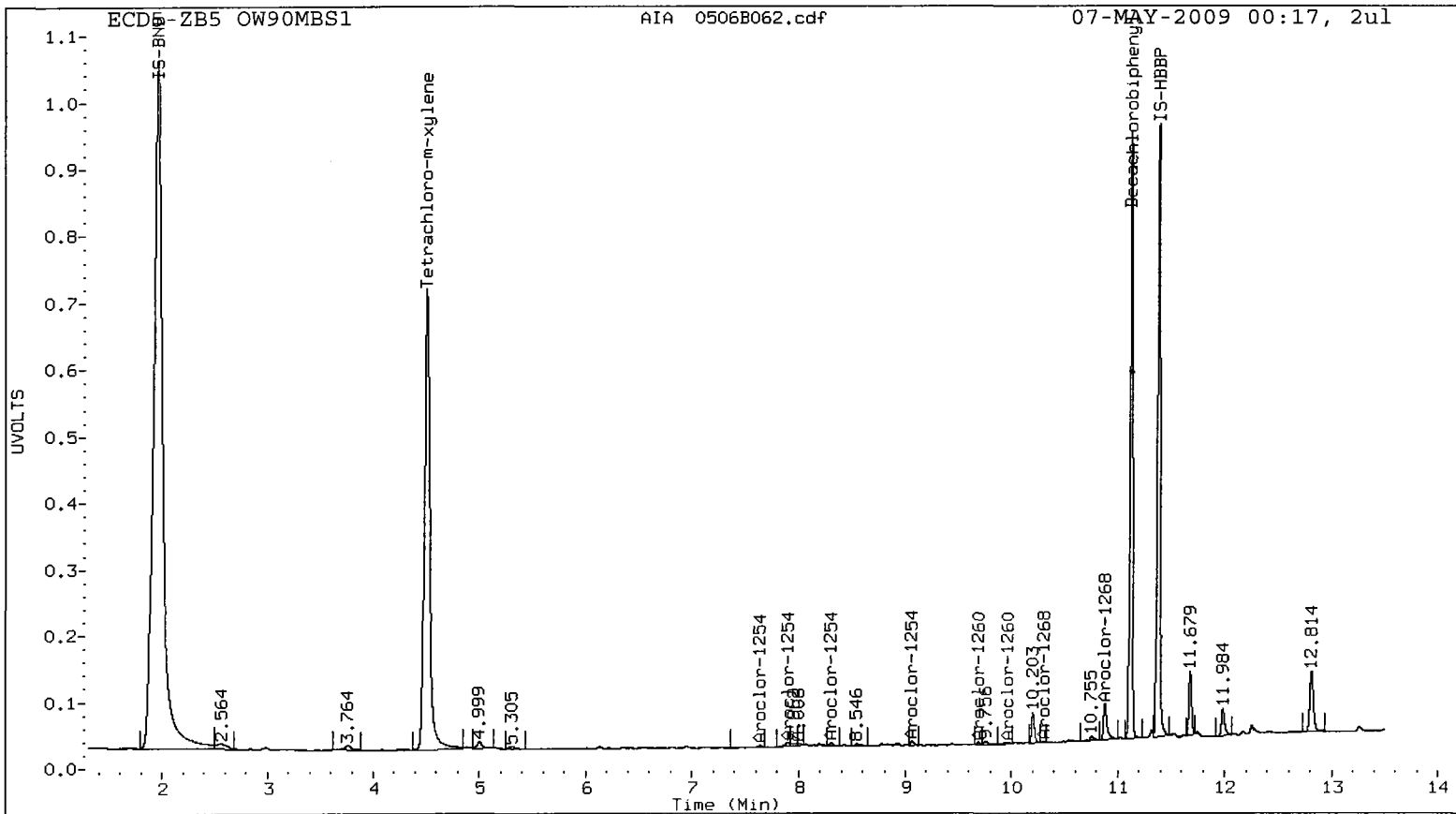
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	7.301	0.023	65013	2.4
Aroclor-1016	3	---			0.0	3	7.470	0.002	16273	1.4
Aroclor-1016	4	---			0.0	4	8.041	0.001	38253	4.5
CollAve: <3 Quant Peaks						Col2Ave: 2.8				
Aroclor-1221	1	---			0.0	1	5.787	0.048	138806	28.7
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	6.102	0.035	35337	3.9
Aroclor-1221	NS	---			---	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	6.102	0.034	35337	4.1
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	7.301	0.023	65013	5.4
Aroclor-1232	4	---			0.0	4	7.470	0.001	16273	3.1
CollAve: <3 Quant Peaks						Col2Ave: 4.2				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	7.301	0.024	65013	2.8
Aroclor-1242	3	---			0.0	3	7.470	0.001	16273	1.7
Aroclor-1242	4	---			0.0	4	8.383	0.002	39404	4.6
CollAve: <3 Quant Peaks						Col2Ave: 3.0				
Aroclor-1248	1	---			0.0	1	7.301	0.029	65013	4.3
Aroclor-1248	2	---			0.0	2	7.683	-0.001	22649	2.5
Aroclor-1248	3	---			0.0	3	8.041	0.001	38253	3.4
Aroclor-1248	4	---			0.0	4	8.383	0.003	39404	2.7
CollAve: <3 Quant Peaks						Col2Ave: 3.2				
Aroclor-1254	1	7.644	0.004	34998	1.4	1	8.609	0.001	47385	3.0
Aroclor-1254	2	7.899	0.005	98498	4.1	2	9.008	0.001	21913	2.0
Aroclor-1254	3	---			0.0	3	9.117	0.000	71803	3.1
Aroclor-1254	4	8.305	0.003	55264	1.9	4	9.295	0.019	62187	2.7
Aroclor-1254	5	9.063	0.004	65788	2.6	5	9.679	0.012	43961	3.0
Total CollAve (4 peaks):				2.5	Total Col2Ave (5 peaks):				2.8	RPD = 11
Corrected Ave (3 peaks):				1.9	Corrected Ave (4 peaks):				2.7	RPD = 31
Aroclor-1260	1	---			0.0	1	10.191	0.004	30367	2.4
Aroclor-1260	2	---			0.0	2	10.267	0.002	15135	1.6
Aroclor-1260	3	9.686	0.000	41799	1.2	3	10.347	0.002	39679	1.4
Aroclor-1260	4	9.966	-0.001	53258	3.2	4	10.747	0.001	25893	1.4
Aroclor-1260	5	---			0.0	NS	---			---
CollAve: <3 Quant Peaks						Col2Ave: 1.7				
Aroclor-1262	1	---			0.0	1	10.191	0.005	30367	1.8
Aroclor-1262	2	9.686	0.002	41799	0.9	2	10.347	0.002	39679	1.1
Aroclor-1262	3	9.966	0.001	53258	3.6	3	10.695	-0.003	72738	4.9
Aroclor-1262	4	---			0.0	4	10.747	0.000	25893	1.1
Aroclor-1262	5	---			0.0	5	11.164	-0.047	389997	33.9
CollAve: <3 Quant Peaks						Col2Ave: 8.6				
Aroclor-1268	1	9.966	-0.066	53258	1.0	1	10.695	-0.002	72738	1.7
Aroclor-1268	2	---			0.0	2	10.747	0.002	25893	0.6
Aroclor-1268	3	10.301	-0.040	22965	0.6	3	11.006	-0.009	19692	0.6
Aroclor-1268	4	10.881	0.029	607827	6.3	4	11.537	-0.011	37325	0.4
Total CollAve (3 peaks):				2.6	Total Col2Ave (4 peaks):				0.9	RPD = 101*
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				0.6	
Total PCB Area Coll (4.605 - 11.021) =					1968008	Coll Total PCB = 0.0 ppm*				
Total PCB Area Col2 (5.245 - 11.743) =					3295683	Col2 Total PCB = 0.0 ppm*				

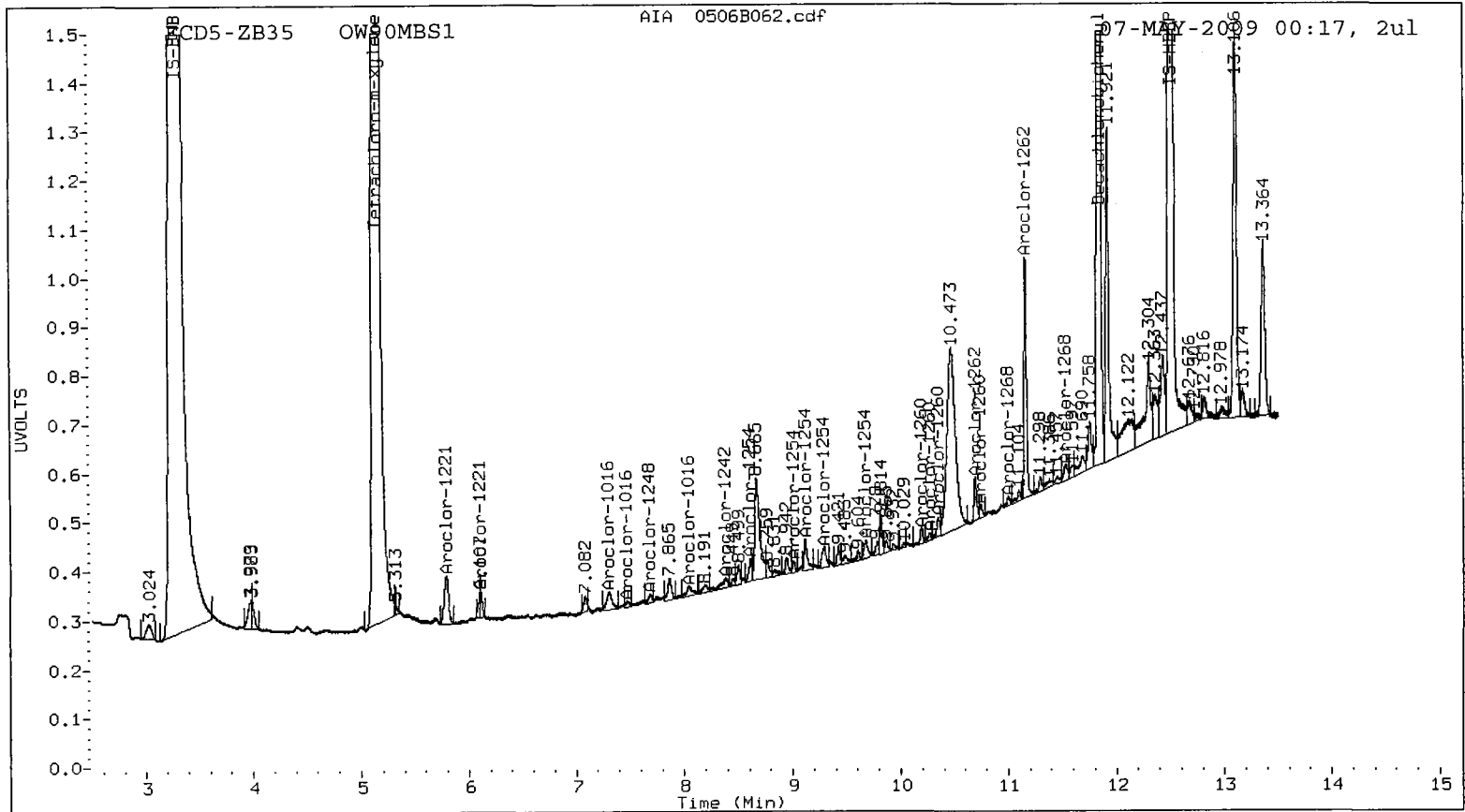
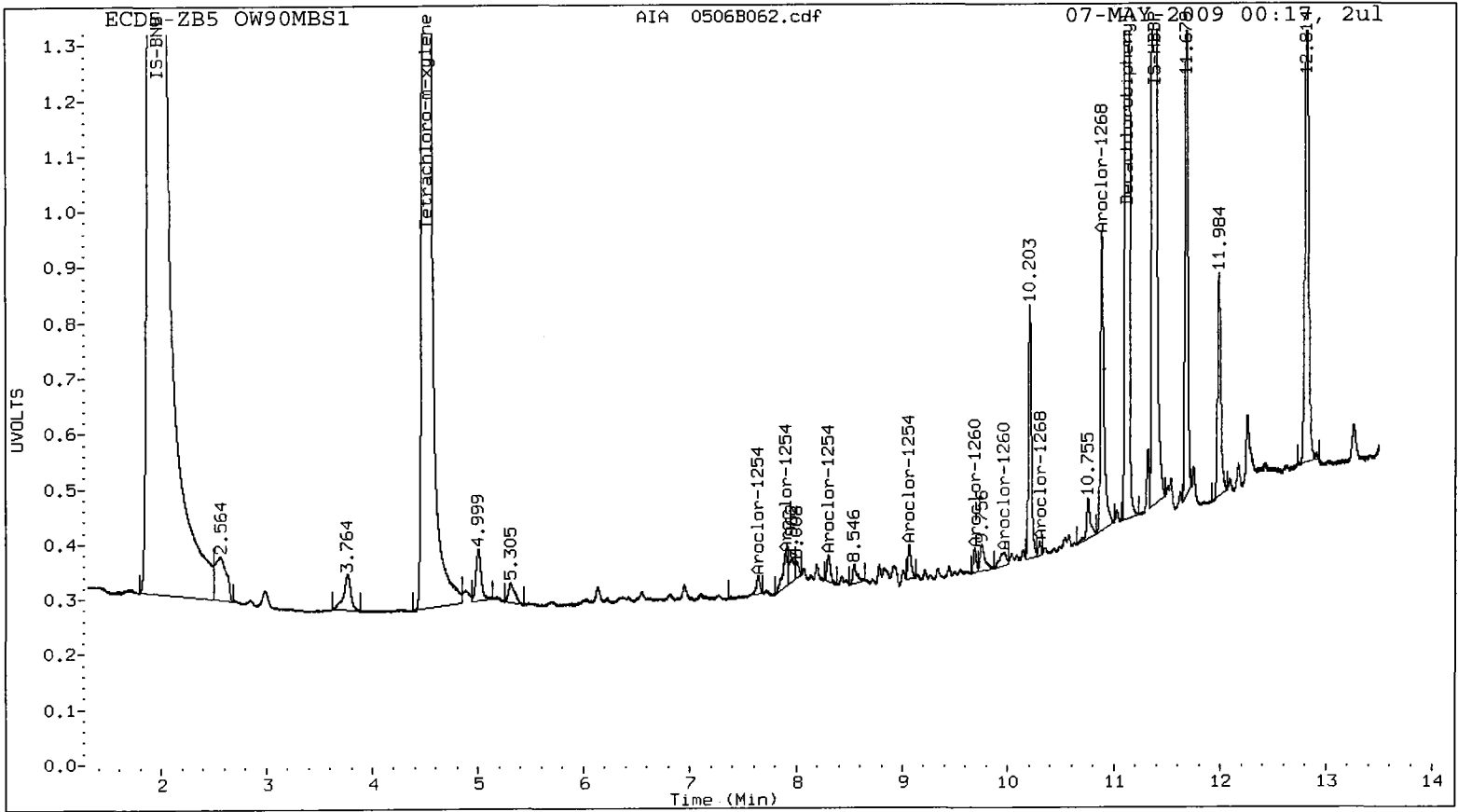
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0490 : 00476



0490:00477



Analytical Resources Inc.
Dual Column PCB Quantitation Report

YZ 5/8/09

Data file 1: 20090506.b/0506-1.b/0506B063.d
Data file 2: 20090506.b/0506-2.b/0506B063.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90LCSS1
Client ID: OW90LCSS1
Injection Date: 07-MAY-2009 00:34
Report Date: 05/08/2009 11:29
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.506	0.001	12939815	5.147	0.002	11311985	31.7	29.9	5.6	Tetrachloro-m-xylene
11.121	0.000	7870571	11.844	0.001	6874167	28.6	30.0	4.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	79.1	74.8
Decachlorobiphenyl	71.5	75.0

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	31306423	17.5
Hexabromobiphenyl	6745626	7945842	17.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	30368932	21.7
Hexabromobiphenyl	6589208	7684869	16.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.989	0.000	4228751	412.8	1	6.702	0.001	5278333	365.4	
Aroclor-1016	2	6.368	-0.002	12691370	428.9	2	7.278	0.000	10766117	390.6	
Aroclor-1016	3	6.507	-0.002	5765178	403.6	3	7.470	0.002	4354405	384.0	
Aroclor-1016	4	6.818	-0.001	3479829	410.3	4	8.041	0.001	3500221	412.4	
Total CollAve (4 peaks):				413.9		Total Col2Ave (4 peaks):				388.1	RPD = 6
Corrected Ave (3 peaks):				408.9		Corrected Ave (3 peaks):				380.0	RPD = 7
Aroclor-1221	1	4.837	0.002	631424	144.8	1	5.739	-0.001	660026	137.0	
Aroclor-1221	2	4.999	0.003	684922	239.6	2	5.963	0.002	546178	196.1	
Aroclor-1221	3	5.095	0.002	3084722	289.0	3	6.068	0.001	2597739	288.3	
Aroclor-1221	NS	---				4	6.702	-0.016	5278333	1713.6	
Total CollAve (3 peaks):				224.5		Total Col2Ave (4 peaks):				583.8	RPD = 89*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				207.1	
Aroclor-1232	1	5.095	-0.002	3084722	317.4	1	6.068	0.001	2597739	304.5	
Aroclor-1232	2	5.989	-0.001	4228751	947.3	2	6.702	-0.002	5278333	780.4	
Aroclor-1232	3	6.368	-0.005	12691370	970.8	3	7.278	0.000	10766117	900.4	
Aroclor-1232	4	6.507	-0.005	5765178	879.9	4	7.470	0.001	4354405	839.0	
Total CollAve (4 peaks):				778.9		Total Col2Ave (4 peaks):				706.1	RPD = 10
Corrected Ave (3 peaks):				714.9		Corrected Ave (3 peaks):				641.3	RPD = 11
Aroclor-1242	1	5.989	-0.001	4228751	448.3	1	6.702	0.001	5278333	443.4	
Aroclor-1242	2	6.368	-0.003	12691370	483.1	2	7.278	0.001	10766117	469.3	
Aroclor-1242	3	6.507	-0.002	5765178	448.1	3	7.470	0.001	4354405	451.3	
Aroclor-1242	4	7.270	-0.001	5239975	450.3	4	8.381	0.000	1861506	217.1	
Total CollAve (4 peaks):				457.5		Total Col2Ave (4 peaks):				395.3	RPD = 15
Corrected Ave (3 peaks):				448.9		Corrected Ave (3 peaks):				370.6	RPD = 19
Aroclor-1248	1	6.368	0.002	12691370	746.4	1	7.278	0.006	10766117	718.3	
Aroclor-1248	2	6.818	0.000	3479829	276.8	2	7.686	0.002	2323272	261.7	
Aroclor-1248	3	7.270	0.001	5239975	306.2	3	8.041	0.001	3500221	313.6	
Aroclor-1248	4	7.644	-0.001	4843972	161.6	4	8.381	0.001	1861506	125.8	
Total CollAve (4 peaks):				372.7		Total Col2Ave (4 peaks):				354.8	RPD = 5
Corrected Ave (3 peaks):				248.2		Corrected Ave (3 peaks):				233.7	RPD = 6
Aroclor-1254	1	7.644	0.004	4843972	195.8	1	8.609	0.002	2258685	145.5	
Aroclor-1254	2	7.895	0.001	3273737	136.7	2	9.007	0.000	395133	36.9	
Aroclor-1254	3	8.198	0.003	470396	31.5	3	9.134	0.018	3952064	170.8	
Aroclor-1254	4	8.285	-0.017	2694682	92.2	4	9.297	0.021	6183215	264.5	
Aroclor-1254	5	9.060	0.001	10387632	412.0	5	9.681	0.014	2010822	135.7	
Total CollAve (5 peaks):				173.6		Total Col2Ave (5 peaks):				150.7	RPD = 14
Corrected Ave (4 peaks):				114.1		Corrected Ave (4 peaks):				122.2	RPD = 7
Aroclor-1260	1	9.212	0.000	6797733	452.4	1	10.187	0.000	5889098	461.5	
Aroclor-1260	2	9.439	0.000	6115926	436.0	2	10.265	0.000	4178906	443.2	
Aroclor-1260	3	9.686	0.000	15666720	451.0	3	10.345	0.000	14332962	483.8	
Aroclor-1260	4	9.966	-0.001	6886977	412.8	4	10.746	0.000	8410366	464.4	
Aroclor-1260	5	10.085	0.000	4420604	516.4	NS	---				
Total CollAve (5 peaks):				453.7		Total Col2Ave (4 peaks):				463.2	RPD = 2
Corrected Ave (4 peaks):				438.0		Corrected Ave (3 peaks):				456.4	RPD = 4
Aroclor-1262	1	9.439	0.000	6115926	306.2	1	10.187	0.001	5889098	344.2	
Aroclor-1262	2	9.686	0.001	15666720	336.9	2	10.345	0.000	14332962	383.8	
Aroclor-1262	3	9.966	0.000	6886977	462.0	3	10.699	0.001	3661443	243.2	
Aroclor-1262	4	10.085	0.002	4420604	215.4	4	10.746	0.000	8410366	364.4	
Aroclor-1262	5	10.521	0.002	3683894	264.6	5	11.212	0.000	3182387	274.3	
Total CollAve (5 peaks):				317.0		Total Col2Ave (5 peaks):				322.0	RPD = 2
Corrected Ave (4 peaks):				280.8		Corrected Ave (4 peaks):				306.5	RPD = 9
Aroclor-1268	1	10.034	0.002	3733380	66.7	1	10.699	0.002	3661443	83.7	
Aroclor-1268	2	10.085	0.003	4420604	83.4	2	10.746	0.001	8410366	206.7	
Aroclor-1268	3	10.361	0.020	1764231	44.4	3	11.014	0.000	189190	6.2	
Aroclor-1268	4	10.853	0.002	885385	9.1	4	11.548	0.000	800588	9.3	
Total CollAve (4 peaks):				50.9		Total Col2Ave (4 peaks):				76.5	RPD = 40*

Corrected Ave (3 peaks): 40.1 Corrected Ave (3 peaks): 33.1 RPD = 19

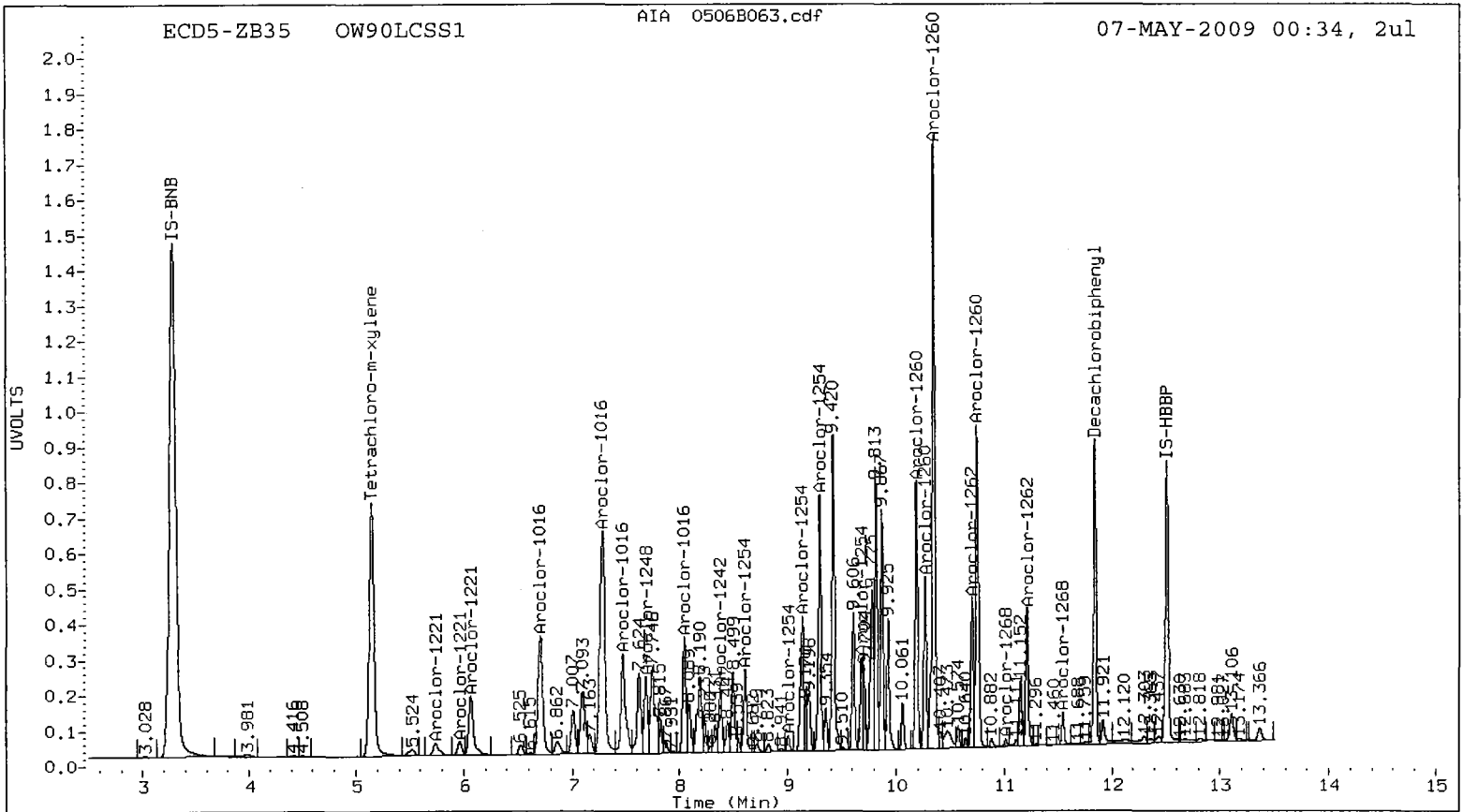
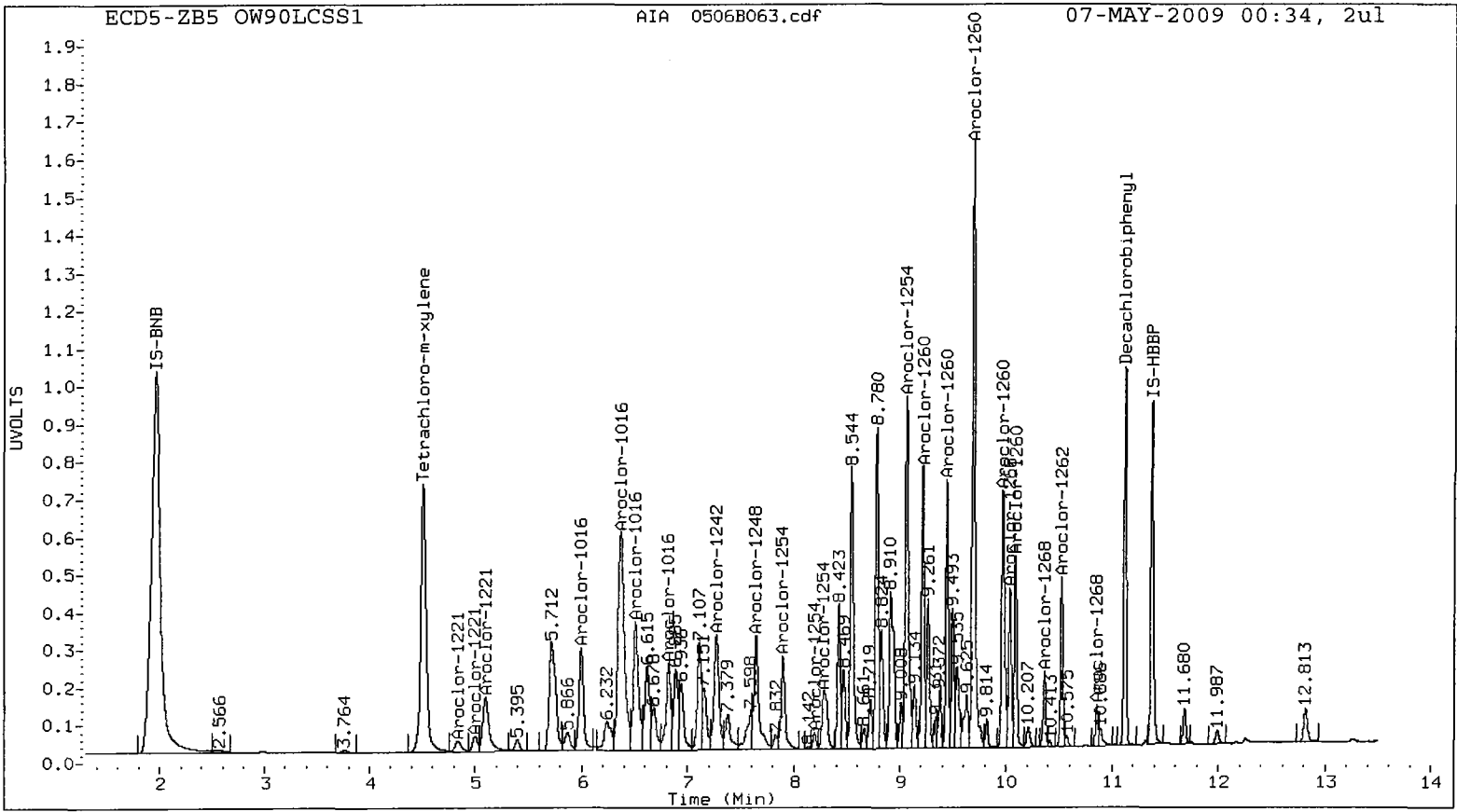
Total PCB Area Col1 (4.605 - 11.021) = 189819801 Col1 Total PCB = 0.8 ppm*

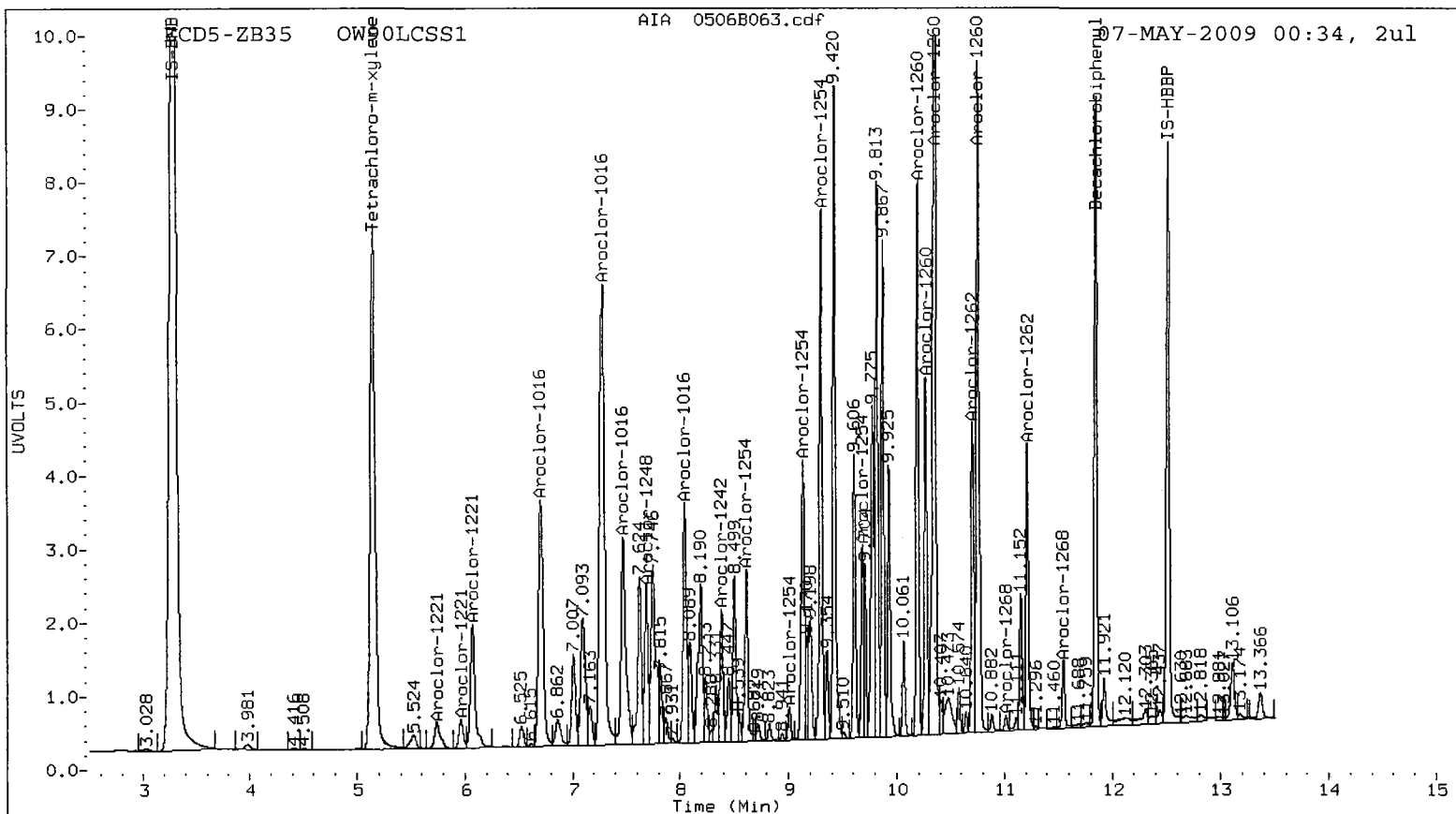
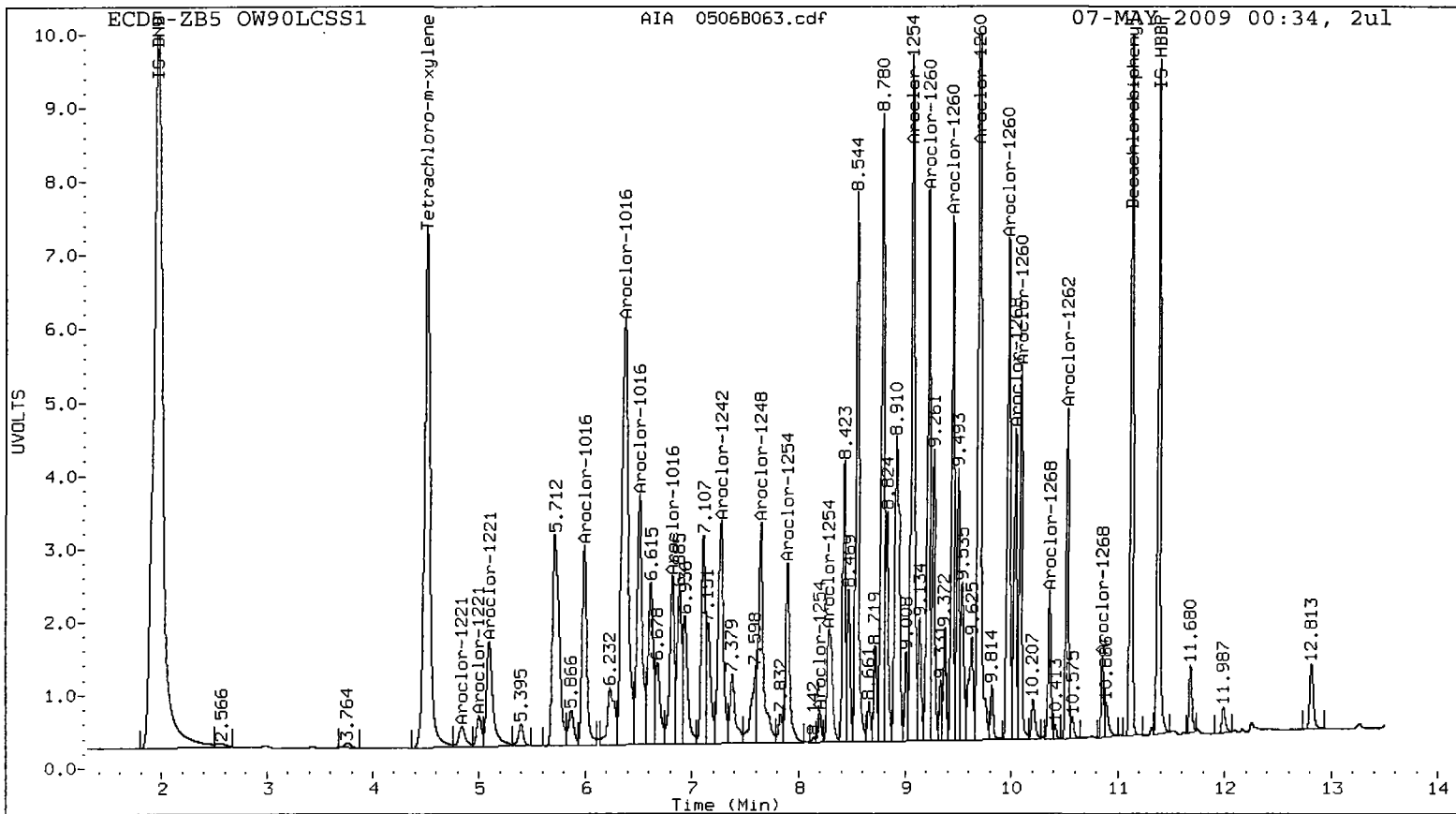
Total PCB Area Col2 (5.245 - 11.743) = 152107121 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0W90:00461





ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
 Page 1 of 1

Sample ID: 10654018
MATRIX SPIKE

Lab Sample ID: OW90E
 LIMS ID: 09-10072
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/08/09

QC Report No: OW90-Geomatrix
 Project: Former Custom Plywood Site
 10654.001
 Date Sampled: 09/04/08
 Date Received: 09/12/08

Date Extracted: 05/04/09
 Date Analyzed: 05/07/09 02:34
 Instrument/Analyst: ECD5/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
 Final Extract Volume: 5.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	---
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	---
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.5%
Tetrachlorometaxylene	80.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

YZ 5/8/09

Data file 1: 20090506.b/0506-1.b/0506B070.d
Data file 2: 20090506.b/0506-2.b/0506B070.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90EMS
Client ID: 10654018 MS
Injection Date: 07-MAY-2009 02:34
Report Date: 05/08/2009 11:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.505	0.000	12382259	5.146	0.001	11015931	32.1	29.6	8.0	Tetrachloro-m-xylene
11.121	0.000	8198787	11.843	0.001	7117548	27.6	30.6	10.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	80.1	74.0
Decachlorobiphenyl	69.0	76.4

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	29582255	11.1
Hexabromobiphenyl	6745626	8568833	27.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	29915887	19.9
Hexabromobiphenyl	6589208	7817626	18.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.986	-0.002	3872898	400.1	1	6.701	0.000	4984144	350.2	
Aroclor-1016	2	6.363	-0.007	10945168	391.5	2	7.276	-0.002	10467269	385.5	
Aroclor-1016	3	6.502	-0.007	4522863	335.1	3	7.468	-0.001	4034503	361.2	
Aroclor-1016	4	6.815	-0.004	2777352	346.6	4	8.041	0.000	3550324	424.6	
Total CollAve (4 peaks):				368.3	Total Col2Ave (4 peaks):				380.4	RPD = 3	
Corrected Ave (3 peaks):				357.7	Corrected Ave (3 peaks):				365.6	RPD = 2	
Aroclor-1221	1	4.834	-0.001	708956	172.0	1	5.738	-0.001	650429	137.0	
Aroclor-1221	2	4.997	0.001	707475	261.9	2	5.962	0.001	501204	182.7	
Aroclor-1221	3	5.091	-0.002	3046339	302.1	3	6.066	-0.001	2455463	276.7	
Aroclor-1221	NS	---	---	---	---	4	6.701	-0.017	4984144	1642.6	
Total CollAve (3 peaks):				245.3	Total Col2Ave (4 peaks):				559.7	RPD = 78*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				198.8		
Aroclor-1232	1	5.091	-0.005	3046339	331.7	1	6.066	-0.001	2455463	292.2	
Aroclor-1232	2	5.986	-0.003	3872898	918.1	2	6.701	-0.003	4984144	748.1	
Aroclor-1232	3	6.363	-0.011	10945168	886.1	3	7.276	-0.002	10467269	888.7	
Aroclor-1232	4	6.502	-0.010	4522863	730.5	4	7.468	-0.002	4034503	789.2	
Total CollAve (4 peaks):				716.6	Total Col2Ave (4 peaks):				679.5	RPD = 5	
Corrected Ave (3 peaks):				649.4	Corrected Ave (3 peaks):				609.8	RPD = 6	
Aroclor-1242	1	5.986	-0.004	3872898	434.5	1	6.701	0.000	4984144	425.0	
Aroclor-1242	2	6.363	-0.009	10945168	440.9	2	7.276	-0.001	10467269	463.2	
Aroclor-1242	3	6.502	-0.008	4522863	372.0	3	7.468	-0.002	4034503	424.5	
Aroclor-1242	4	7.265	-0.006	4229908	384.7	4	8.378	-0.003	1909166	226.0	
Total CollAve (4 peaks):				408.0	Total Col2Ave (4 peaks):				384.7	RPD = 6	
Corrected Ave (3 peaks):				397.1	Corrected Ave (3 peaks):				358.5	RPD = 10	
Aroclor-1248	1	6.363	-0.004	10945168	681.2	1	7.276	0.003	10467269	708.9	
Aroclor-1248	2	6.815	-0.003	2777352	233.8	2	7.684	-0.001	2141124	244.8	
Aroclor-1248	3	7.265	-0.004	4229908	261.6	3	8.041	0.001	3550324	322.9	
Aroclor-1248	4	7.640	-0.005	4525254	159.7	4	8.378	-0.002	1909166	130.9	
Total CollAve (4 peaks):				334.1	Total Col2Ave (4 peaks):				351.9	RPD = 5	
Corrected Ave (3 peaks):				218.4	Corrected Ave (3 peaks):				232.9	RPD = 6	
Aroclor-1254	1	7.640	0.000	4525254	193.6	1	8.607	-0.001	3593370	235.0	
Aroclor-1254	2	7.890	-0.004	4541221	200.7	2	9.006	-0.001	764878	72.4	
Aroclor-1254	3	8.193	-0.002	892634	63.3	3	9.132	0.015	8608840	377.7	
Aroclor-1254	4	8.291	-0.011	5067768	183.5	4	9.296	0.020	14583121	633.3	
Aroclor-1254	5	9.054	-0.004	27564386	1157.1	5	9.680	0.013	5233936	358.6	
Total CollAve (5 peaks):				359.6	Total Col2Ave (5 peaks):				335.4	RPD = 7	
Corrected Ave (4 peaks):				160.3	Corrected Ave (4 peaks):				260.9	RPD = 48*	
Aroclor-1260	1	9.210	-0.002	15900854	981.2	1	10.186	0.000	16184053	1246.7	
Aroclor-1260	2	9.437	-0.002	15285487	1010.4	2	10.265	0.000	11930535	1243.9	
Aroclor-1260	3	9.682	-0.004	41444956	1106.3	3	10.345	0.000	42870089	1422.4	
Aroclor-1260	4	9.962	-0.004	20376972	1132.5	4	10.746	0.000	25001571	1357.0	
Aroclor-1260	5	10.083	-0.002	10478587	1135.1	NS	---	---	---	---	
Total CollAve (5 peaks):				1073.1	Total Col2Ave (4 peaks):				1317.9	RPD = 20	
Corrected Ave (4 peaks):				1057.6	Corrected Ave (3 peaks):				1282.5	RPD = 19	
Aroclor-1262	1	9.437	-0.002	15285487	709.7	1	10.186	0.000	16184053	929.8	
Aroclor-1262	2	9.682	-0.002	41444956	826.5	2	10.345	0.000	42870089	1128.4	
Aroclor-1262	3	9.962	-0.003	20376972	1267.7	3	10.700	0.002	9746630	636.4	
Aroclor-1262	4	10.083	0.000	10478587	473.4	4	10.746	-0.001	25001571	1064.9	
Aroclor-1262	5	10.519	-0.001	10304474	686.2	5	11.210	-0.001	8407077	712.4	
Total CollAve (5 peaks):				792.7	Total Col2Ave (5 peaks):				894.4	RPD = 12	
Corrected Ave (4 peaks):				673.9	Corrected Ave (4 peaks):				835.9	RPD = 21	
Aroclor-1268	1	10.032	0.000	8358718	138.4	1	10.700	0.003	9746630	219.1	
Aroclor-1268	2	10.083	0.001	10478587	183.4	2	10.746	0.001	25001571	604.0	
Aroclor-1268	3	10.359	0.017	4518731	105.4	3	11.014	-0.001	594859	19.1	
Aroclor-1268	4	10.853	0.002	2430025	23.2	4	11.547	-0.001	1787593	20.4	
Total CollAve (4 peaks):				112.6	Total Col2Ave (4 peaks):				215.6	RPD = 63*	

Corrected Ave (3 peaks): 89.0 Corrected Ave (3 peaks): 86.2 RPD = 3

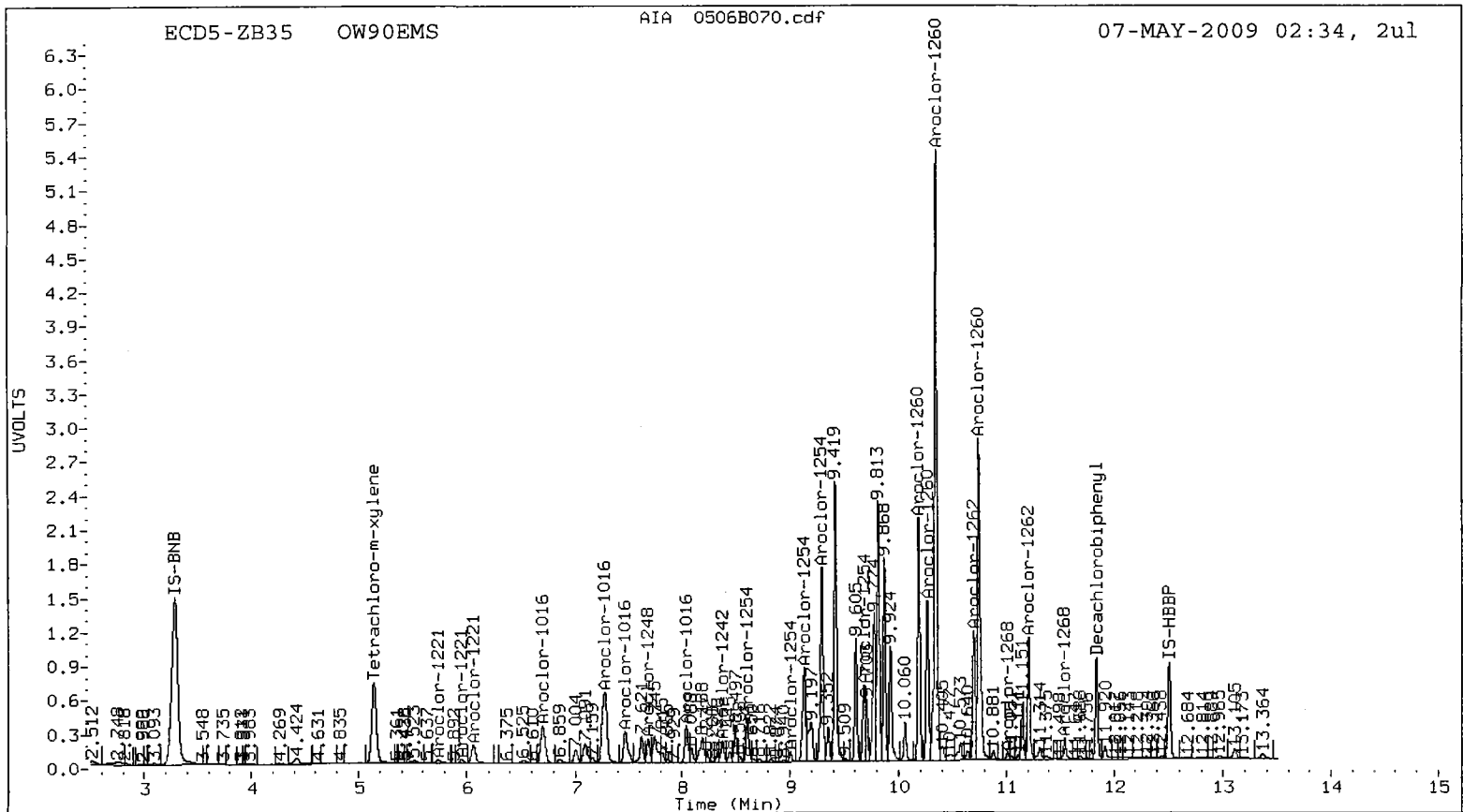
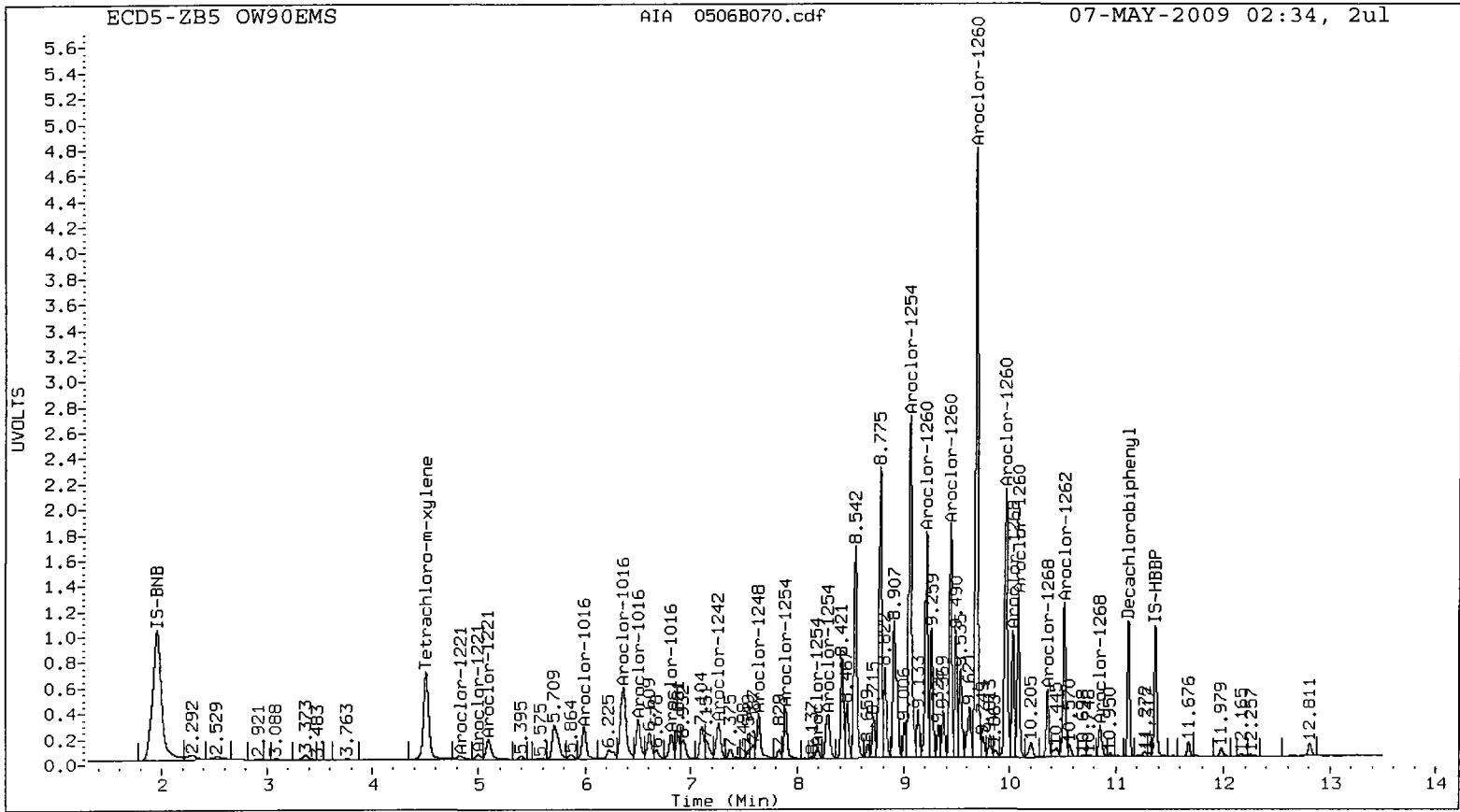
Total PCB Area Col1 (4.605 - 11.021) = 350276049 Col1 Total PCB = 1.6 ppm*

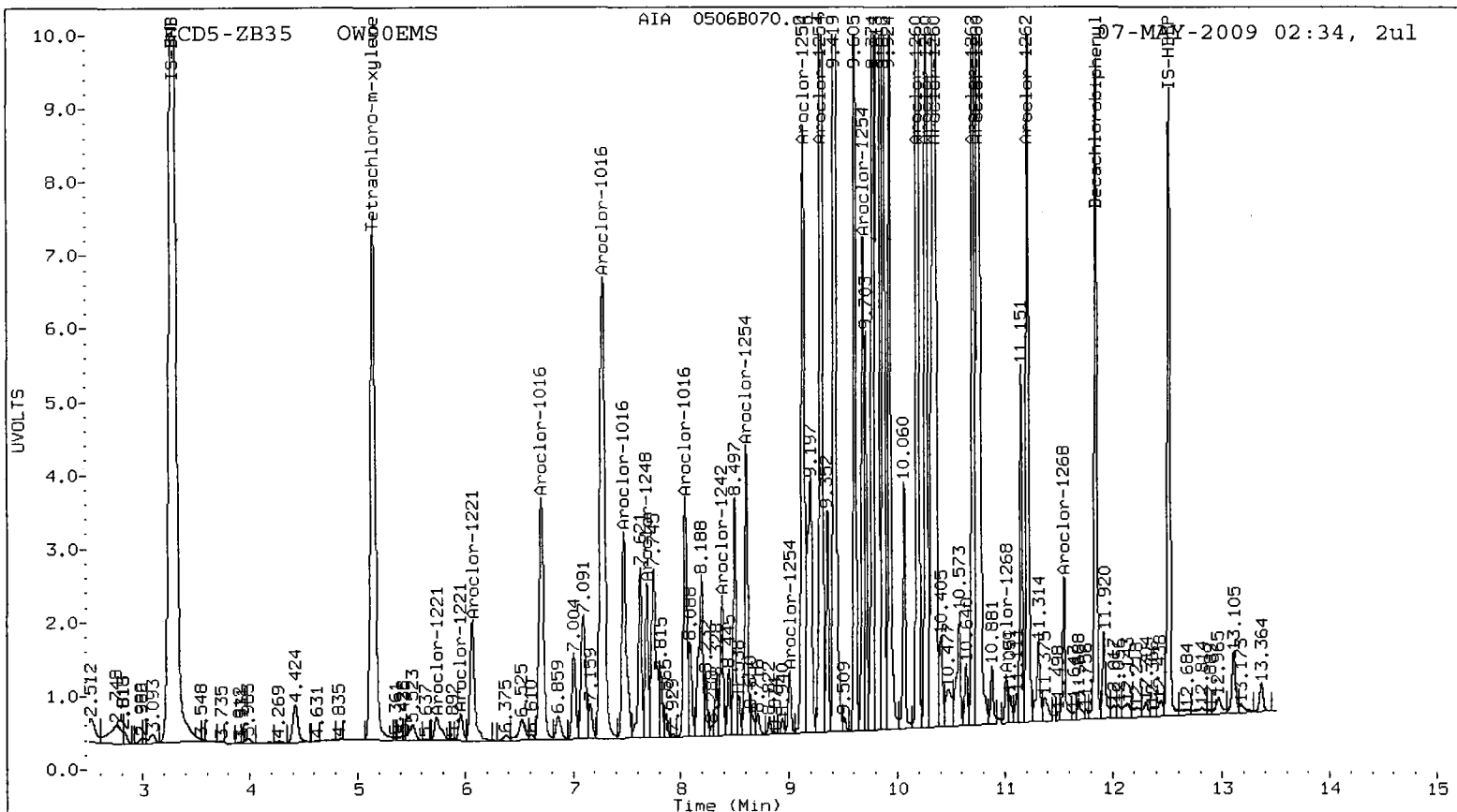
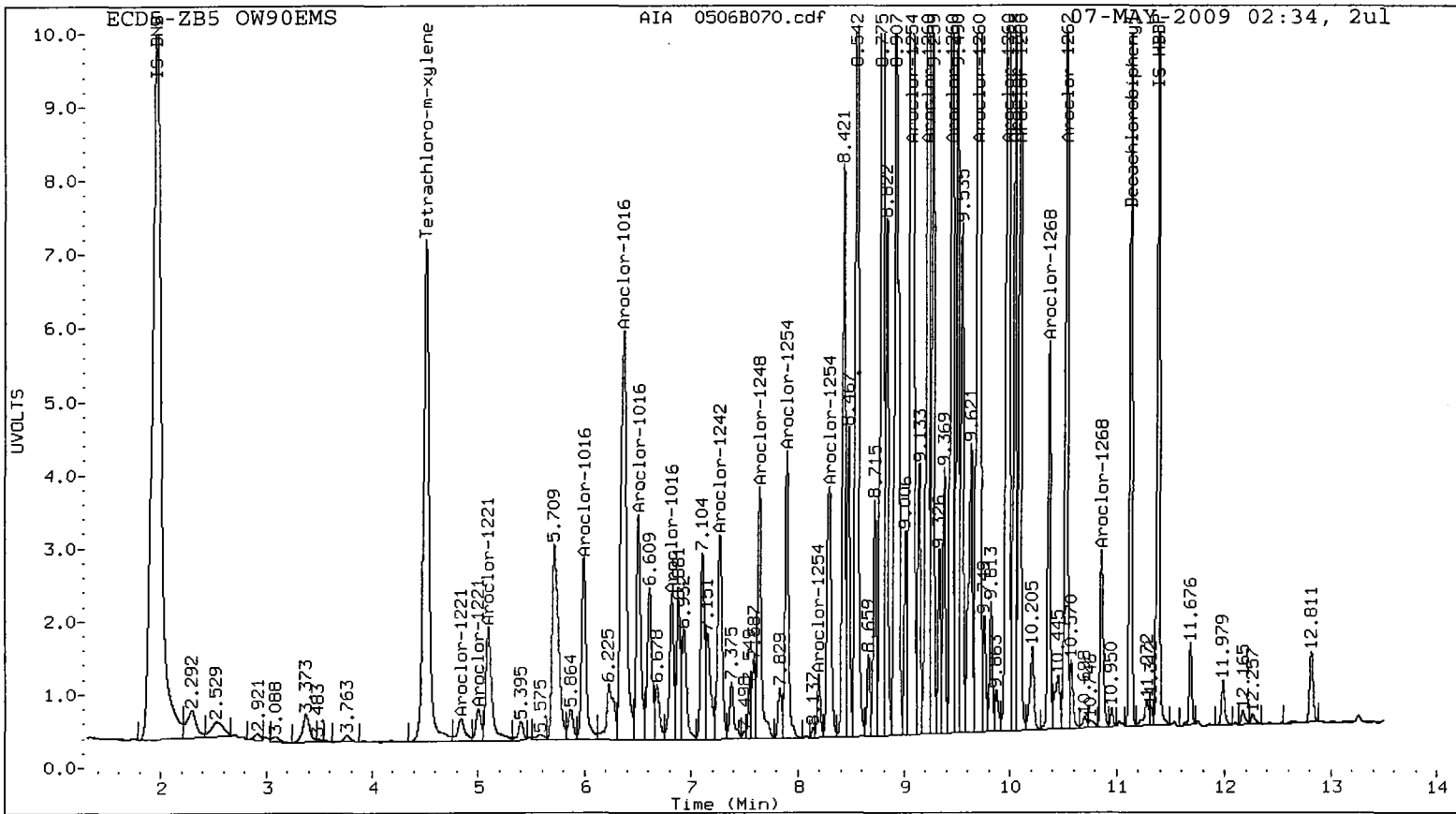
Total PCB Area Col2 (5.245 - 11.743) = 311188820 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

OWS0:00487





ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1


Sample ID: 10654018

MATRIX SPIKE DUP

Lab Sample ID: OW90E

LIMS ID: 09-10072

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 02:51

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	---
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	---
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.5%
Tetrachlorometaxylene	77.8%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

YZ 5/11/09

Data file 1: 20090506.b/0506-1.b/0506B071.d
Data file 2: 20090506.b/0506-2.b/0506B071.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90EMSD
Client ID: 10654018 MSD
Injection Date: 07-MAY-2009 02:51
Report Date: 05/08/2009 11:30
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.506	0.001 11944870	5.148 0.004 10894757	31.1	30.3	2.8	Tetrachloro-m-xylene
11.121	0.000 8133519	11.845 0.002 6934743	28.6	31.4	9.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	77.8	75.7
Decachlorobiphenyl	71.5	78.5

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	29389465	10.3
Hexabromobiphenyl	6745626	8207813	21.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	28918953	15.9
Hexabromobiphenyl	6589208	7413010	12.5

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col							
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount		
Aroclor-1016	1	5.988	0.000	3826967	397.9	1	6.702	0.000	5061070	367.9		
Aroclor-1016	2	6.365	-0.005	11059513	398.2	2	7.277	-0.001	10601736	403.9		
Aroclor-1016	3	6.504	-0.005	4600781	343.1	3	7.469	0.001	4079799	377.8		
Aroclor-1016	4	6.817	-0.001	2832733	355.8	4	8.042	0.001	3603871	445.9		
Total Coll1Ave (4 peaks):					373.7	Total Col2Ave (4 peaks):					398.9	RPD = 7
Corrected Ave (3 peaks):					365.6	Corrected Ave (3 peaks):					383.2	RPD = 5
Aroclor-1221	1	4.834	-0.001	672478	164.3	1	5.741	0.002	477042	104.0		
Aroclor-1221	2	4.997	0.000	685049	255.3	2	5.962	0.002	516464	194.8		
Aroclor-1221	3	5.092	-0.001	3022307	301.6	3	6.067	-0.001	2489125	290.1		
Aroclor-1221	NS	---	---	---	---	4	6.702	-0.017	5061070	1725.4		
Total Coll1Ave (3 peaks):					240.4	Total Col2Ave (4 peaks):					578.6	RPD = 83*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):					196.3	
Aroclor-1232	1	5.092	-0.005	3022307	331.3	1	6.067	-0.001	2489125	306.4		
Aroclor-1232	2	5.988	-0.001	3826967	913.2	2	6.702	-0.002	5061070	785.8		
Aroclor-1232	3	6.365	-0.008	11059513	901.2	3	7.277	-0.002	10601736	931.1		
Aroclor-1232	4	6.504	-0.008	4600781	748.0	4	7.469	0.000	4079799	825.5		
Total Coll1Ave (4 peaks):					723.4	Total Col2Ave (4 peaks):					712.2	RPD = 2
Corrected Ave (3 peaks):					660.2	Corrected Ave (3 peaks):					639.2	RPD = 3
Aroclor-1242	1	5.988	-0.002	3826967	432.1	1	6.702	0.001	5061070	446.5		
Aroclor-1242	2	6.365	-0.006	11059513	448.5	2	7.277	-0.001	10601736	485.3		
Aroclor-1242	3	6.504	-0.006	4600781	380.9	3	7.469	0.000	4079799	444.0		
Aroclor-1242	4	7.268	-0.003	4402956	403.1	4	8.379	-0.002	1893719	231.9		
Total Coll1Ave (4 peaks):					416.2	Total Col2Ave (4 peaks):					401.9	RPD = 3
Corrected Ave (3 peaks):					405.4	Corrected Ave (3 peaks):					374.1	RPD = 8
Aroclor-1248	1	6.365	-0.001	11059513	692.8	1	7.277	0.004	10601736	742.8		
Aroclor-1248	2	6.817	0.000	2832733	240.0	2	7.686	0.001	2176751	257.5		
Aroclor-1248	3	7.268	-0.001	4402956	274.1	3	8.042	0.002	3603871	339.1		
Aroclor-1248	4	7.641	-0.004	3375966	119.9	4	8.379	0.000	1893719	134.4		
Total Coll1Ave (4 peaks):					331.7	Total Col2Ave (4 peaks):					368.4	RPD = 10
Corrected Ave (3 peaks):					211.3	Corrected Ave (3 peaks):					243.6	RPD = 14
Aroclor-1254	1	7.641	0.001	3375966	145.4	1	8.608	0.001	2466695	166.9		
Aroclor-1254	2	7.892	-0.002	2909981	129.4	2	9.006	-0.001	458507	44.9		
Aroclor-1254	3	8.194	-0.002	528321	37.7	3	9.133	0.016	4242519	192.6		
Aroclor-1254	4	8.291	-0.012	2768559	100.9	4	9.296	0.020	6572261	295.3		
Aroclor-1254	5	9.057	-0.002	11126752	470.2	5	9.681	0.014	2159223	153.0		
Total Coll1Ave (5 peaks):					176.7	Total Col2Ave (5 peaks):					170.5	RPD = 4
Corrected Ave (4 peaks):					103.4	Corrected Ave (4 peaks):					139.3	RPD = 30
Aroclor-1260	1	9.211	-0.002	7077537	456.0	1	10.186	0.000	6369925	517.5		
Aroclor-1260	2	9.438	-0.001	6450114	445.1	2	10.265	0.000	4535777	498.7		
Aroclor-1260	3	9.684	-0.002	16070197	447.8	3	10.346	0.001	15432985	540.0		
Aroclor-1260	4	9.964	-0.003	7833321	454.5	4	10.746	0.000	9579237	548.3		
Aroclor-1260	5	10.084	-0.001	4657155	526.7	NS	---	---	---	---		
Total Coll1Ave (5 peaks):					466.0	Total Col2Ave (4 peaks):					526.1	RPD = 12
Corrected Ave (4 peaks):					450.9	Corrected Ave (3 peaks):					518.7	RPD = 14
Aroclor-1262	1	9.438	-0.001	6450114	312.7	1	10.186	0.001	6369925	386.0		
Aroclor-1262	2	9.684	0.000	16070197	334.6	2	10.346	0.000	15432985	428.4		
Aroclor-1262	3	9.964	-0.002	7833321	508.8	3	10.700	0.002	4042237	278.3		
Aroclor-1262	4	10.084	0.001	4657155	219.6	4	10.746	0.000	9579237	430.3		
Aroclor-1262	5	10.520	0.000	5376256	373.8	5	11.211	0.000	3515102	314.1		
Total Coll1Ave (5 peaks):					349.9	Total Col2Ave (5 peaks):					367.4	RPD = 5
Corrected Ave (4 peaks):					310.2	Corrected Ave (4 peaks):					351.7	RPD = 13
Aroclor-1268	1	10.033	0.001	3857506	66.7	1	10.700	0.003	4042237	95.8		
Aroclor-1268	2	10.084	0.002	4657155	85.1	2	10.746	0.001	9579237	244.0		
Aroclor-1268	3	10.360	0.018	1942316	47.3	3	11.015	0.000	418709	14.2		
Aroclor-1268	4	10.854	0.003	1581924	15.8	4	11.547	0.000	1052709	12.7		
Total Coll1Ave (4 peaks):					53.7	Total Col2Ave (4 peaks):					91.7	RPD = 52*

Corrected Ave (3 peaks): 43.3 Corrected Ave (3 peaks): 40.9 RPD = 6

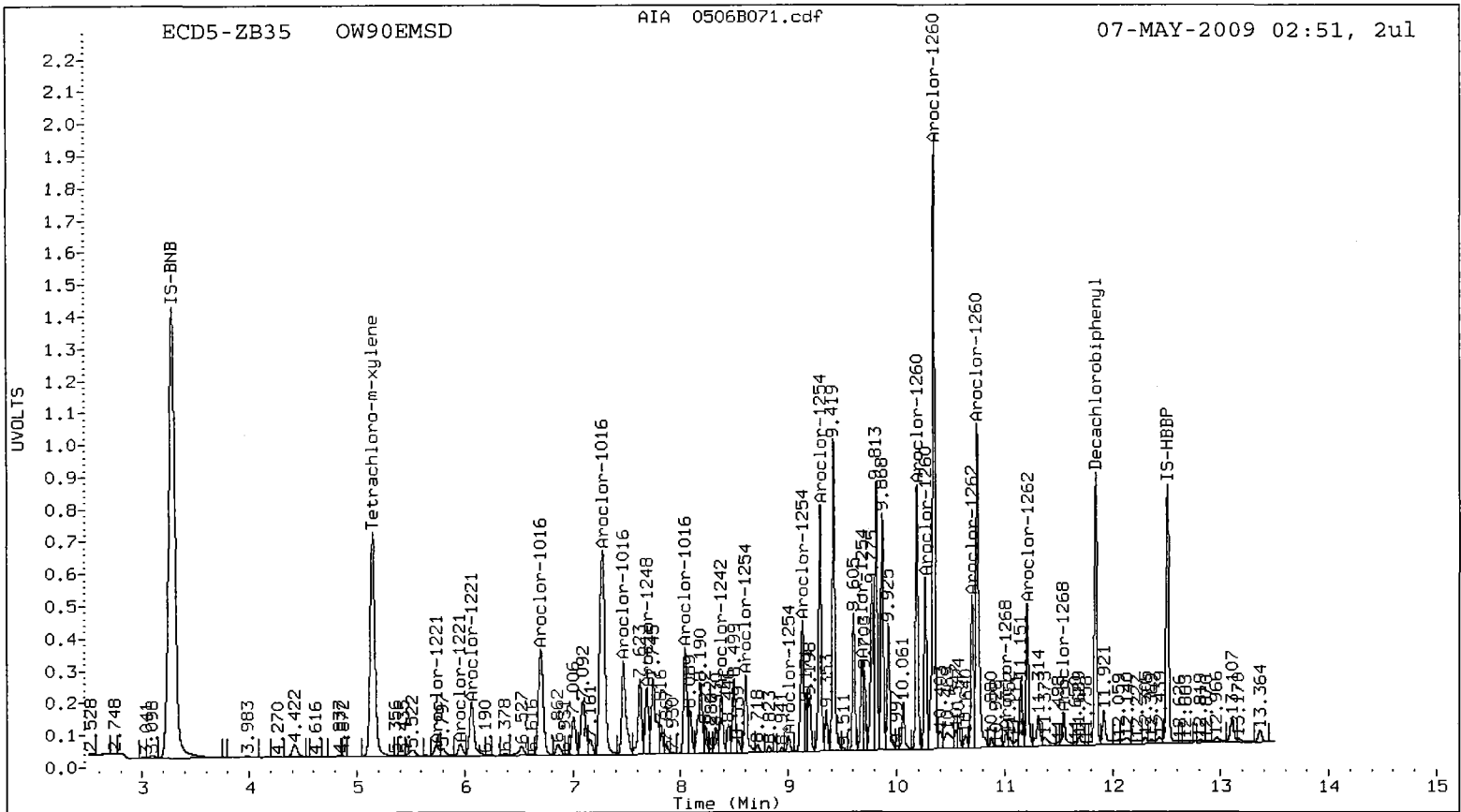
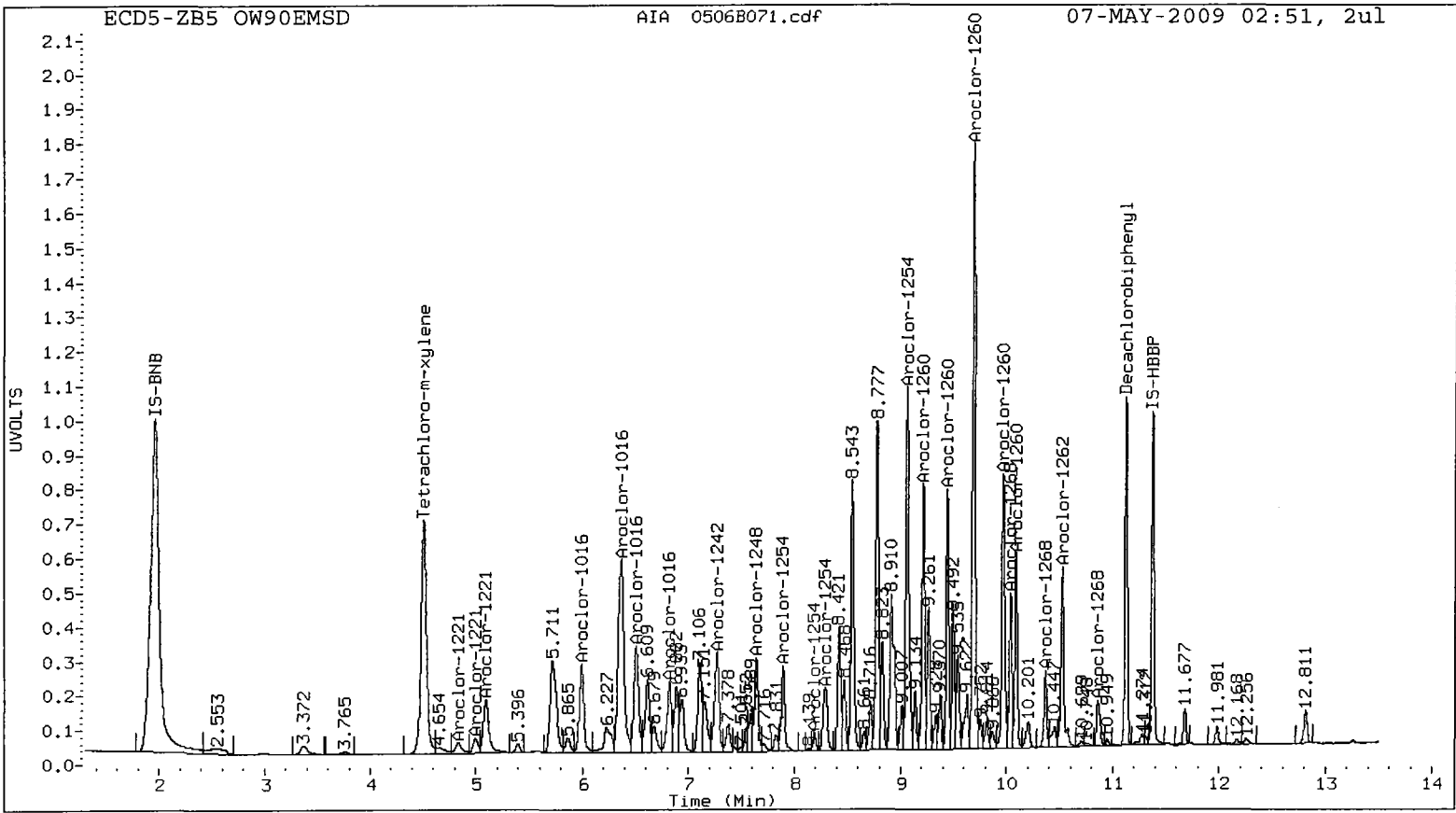
Total PCB Area Col1 (4.605 - 11.021) = 189769654 Col1 Total PCB = 0.9 ppm*

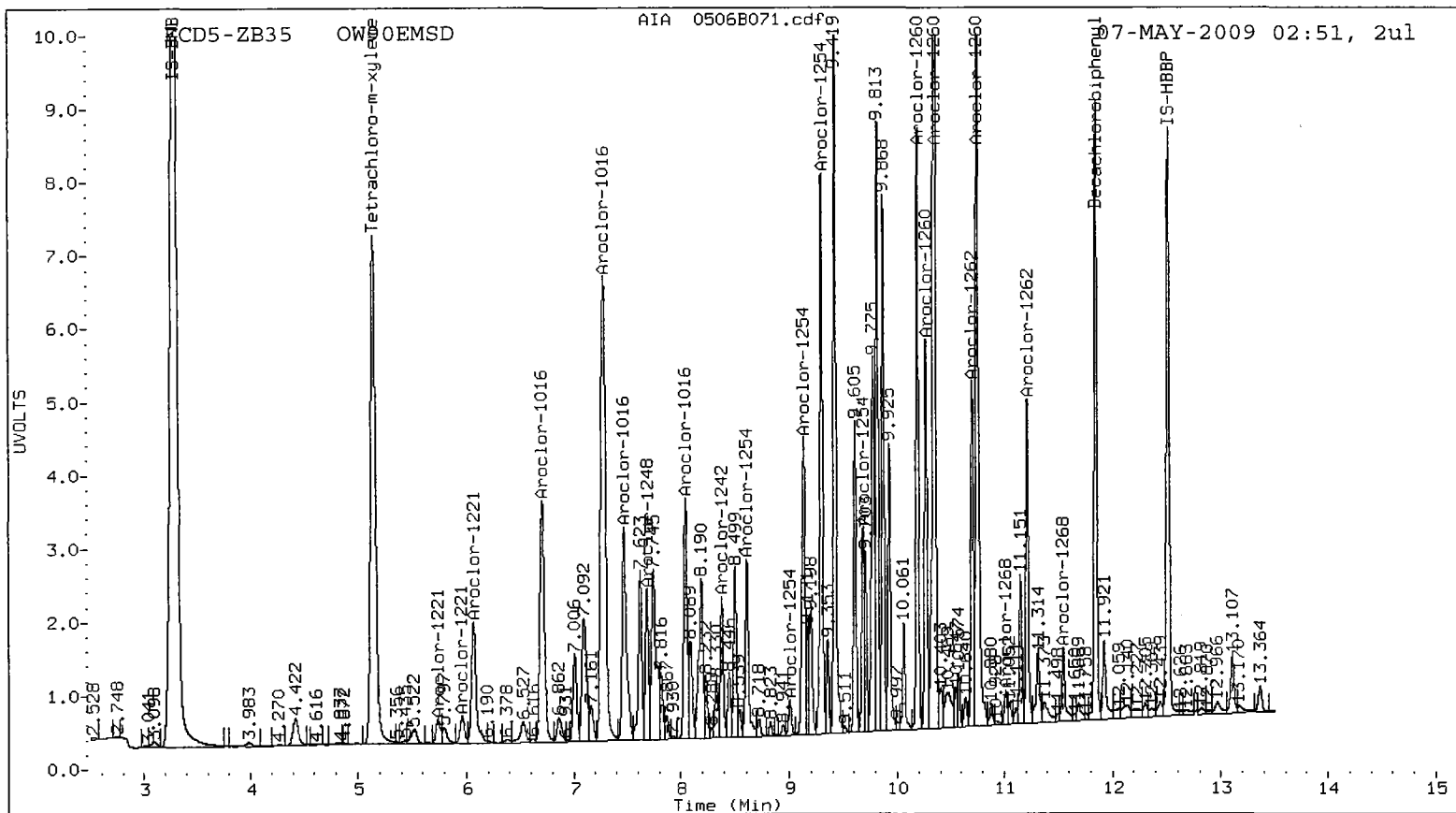
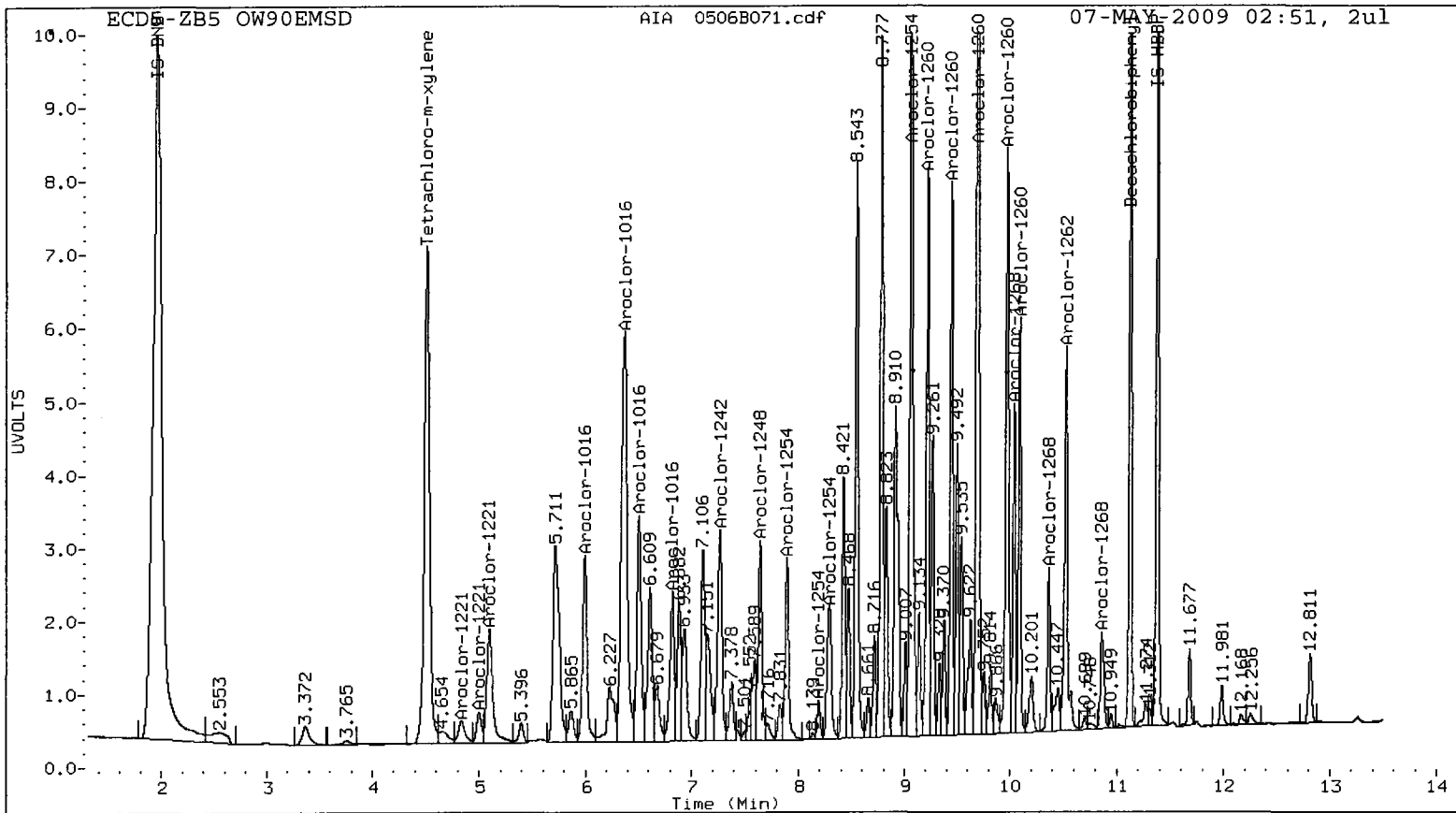
Total PCB Area Col2 (5.245 - 11.743) = 162211590 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0W50 : 00493





ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1


Sample ID: SRM SQ-1

STANDARD REFERENCE

Lab Sample ID: SRM SQ-1

LIMS ID: 09-10072

Matrix: Sediment

Data Release Authorized: 

Reported: 05/08/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: NA

Date Received: NA

Date Extracted: 05/04/09

Date Analyzed: 05/07/09 00:51

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 15.0 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 40.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	86
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	75.8%
Tetrachlorometaxylene	91.8%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090506.b/0506-1.b/0506B064.d
Data file 2: 20090506.b/0506-2.b/0506B064.d
Method: /chem2/ecd5.i/20090506.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: OW90SRM1 *YZ 5/8/09*
Client ID: SQ-1
Injection Date: 07-MAY-2009 00:51
Report Date: 05/08/2009 11:29
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.507	0.002	14048468	5.148	0.003	10044123	36.7	30.1	19.7	Tetrachloro-m-xylene
11.121	0.000	7737266	11.844	0.002	6618082	28.2	30.3	7.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	91.8	75.4
Decachlorobiphenyl	70.5	75.7

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	26636297	29285541	9.9
Hexabromobiphenyl	6745626	7914867	17.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	24954796	26777578	7.3
Hexabromobiphenyl	6589208	7339046	11.4

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-MAY-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	6.710	0.008	246627838	19361.9
Aroclor-1016	2	6.325	-0.046	5603024	202.4	2	7.250	-0.028	2510069	103.3
Aroclor-1016	3	---			0.0	3	7.473	0.005	153512	15.4
Aroclor-1016	4	6.820	0.001	2503827	315.6	4	8.041	0.001	1829867	244.5
CollAve: <3 Quant Peaks						Col2Ave: 4931.2				
Aroclor-1221	1	4.780	-0.055	685210	168.0	1	5.802	0.062	3299005	776.5
Aroclor-1221	2	5.015	0.019	4559169	1705.1	2	6.020	0.059	6214416	2530.9
Aroclor-1221	3	5.101	0.008	2946517	295.1	3	---			0.0
Aroclor-1221	NS	---			----	4	6.710	-0.009	246627838	90805.4
Total CollAve (3 peaks):				722.7		Total Col2Ave (3 peaks):				31370.9 RPD = 191*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	5.101	0.005	2946517	324.1	1	6.020	-0.048	6214416	826.1
Aroclor-1232	2	---			0.0	2	6.710	0.005	246627838	41355.4
Aroclor-1232	3	6.325	-0.049	5603024	458.2	3	7.250	-0.028	2510069	238.1
Aroclor-1232	4	---			0.0	4	7.473	0.004	153512	33.5
CollAve: <3 Quant Peaks						Col2Ave: 10613.3				
Aroclor-1242	1	---			0.0	1	6.710	0.009	246627838	23497.4
Aroclor-1242	2	6.325	-0.047	5603024	228.0	2	7.250	-0.027	2510069	124.1
Aroclor-1242	3	---			0.0	3	7.473	0.004	153512	18.0
Aroclor-1242	4	7.266	-0.005	1717875	157.8	4	8.388	0.007	2657397	351.5
CollAve: <3 Quant Peaks						Col2Ave: 5997.8				
Aroclor-1248	1	6.325	-0.042	5603024	352.2	1	7.250	-0.022	2510069	189.9
Aroclor-1248	2	6.820	0.002	2503827	212.9	2	7.686	0.001	1921707	245.5
Aroclor-1248	3	7.266	-0.003	1717875	107.3	3	8.041	0.001	1829867	185.9
Aroclor-1248	4	7.639	-0.006	4324868	154.2	4	8.388	0.008	2657397	203.6
Total CollAve (4 peaks):				206.7		Total Col2Ave (4 peaks):				206.2 RPD = 0
Corrected Ave (3 peaks):				158.1		Corrected Ave (3 peaks):				193.2 RPD = 20
Aroclor-1254	1	7.639	-0.001	4324868	186.9	1	8.609	0.002	3171280	231.7
Aroclor-1254	2	7.892	-0.002	7743986	345.7	2	9.007	0.000	2404949	254.4
Aroclor-1254	3	8.193	-0.002	4585730	328.6	3	9.116	0.000	4449018	218.1
Aroclor-1254	4	8.300	-0.002	6617015	242.0	4	9.276	0.000	4792877	232.5
Aroclor-1254	5	9.059	0.000	4527213	192.0	5	9.666	-0.001	2977091	227.9
Total CollAve (5 peaks):				259.0		Total Col2Ave (5 peaks):				232.9 RPD = 11
Corrected Ave (4 peaks):				237.3		Corrected Ave (4 peaks):				227.6 RPD = 4
Aroclor-1260	1	9.212	-0.001	258333	17.3	1	10.194	0.007	1061937	87.1
Aroclor-1260	2	9.439	-0.001	249194	17.8	2	10.273	0.008	678030	75.3
Aroclor-1260	3	9.685	-0.001	493964	14.3	3	10.346	0.002	611595	21.6
Aroclor-1260	4	9.965	-0.002	460099	27.7	4	10.746	0.000	373017	21.6
Aroclor-1260	5	10.085	0.000	72316	8.5	NS	---			----
Total CollAve (5 peaks):				17.1		Total Col2Ave (4 peaks):				51.4 RPD = 100*
Corrected Ave (4 peaks):				14.5		Corrected Ave (3 peaks):				39.5 RPD = 93*
Aroclor-1262	1	9.439	0.000	249194	12.5	1	10.194	0.008	1061937	65.0
Aroclor-1262	2	9.685	0.001	493964	10.7	2	10.346	0.001	611595	17.1
Aroclor-1262	3	9.965	-0.001	460099	31.0	3	10.703	0.005	677155	47.1
Aroclor-1262	4	10.085	0.002	72316	3.5	4	10.746	0.000	373017	16.9
Aroclor-1262	5	10.528	0.008	146053	10.5	5	11.212	0.000	41196	3.7
Total CollAve (5 peaks):				13.6		Total Col2Ave (5 peaks):				30.0 RPD = 75*
Corrected Ave (4 peaks):				9.3		Corrected Ave (4 peaks):				21.2 RPD = 78*
Aroclor-1268	1	10.035	0.003	606122	10.9	1	10.703	0.006	677155	16.2
Aroclor-1268	2	10.085	0.003	72316	1.4	2	10.746	0.001	373017	9.6
Aroclor-1268	3	---			0.0	3	11.014	-0.001	34812	1.2
Aroclor-1268	4	10.873	0.022	673781	7.0	4	11.538	-0.010	61577	0.7
Total CollAve (3 peaks):				6.4		Total Col2Ave (4 peaks):				6.9 RPD = 8
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				3.8

Total PCB Area Col1 (4.605 - 11.021) = 489401721

Col1 Total PCB = 2.3 ppm*

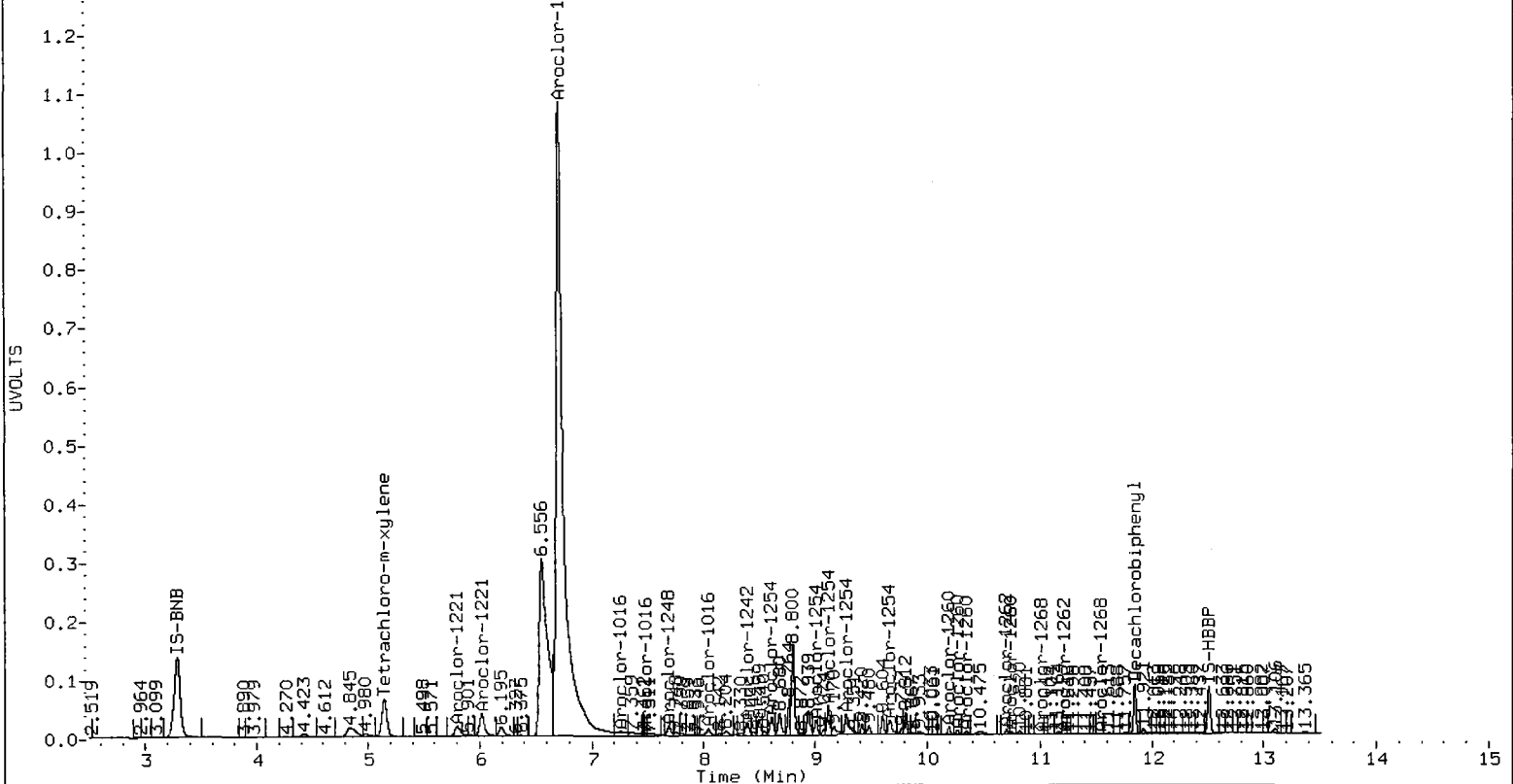
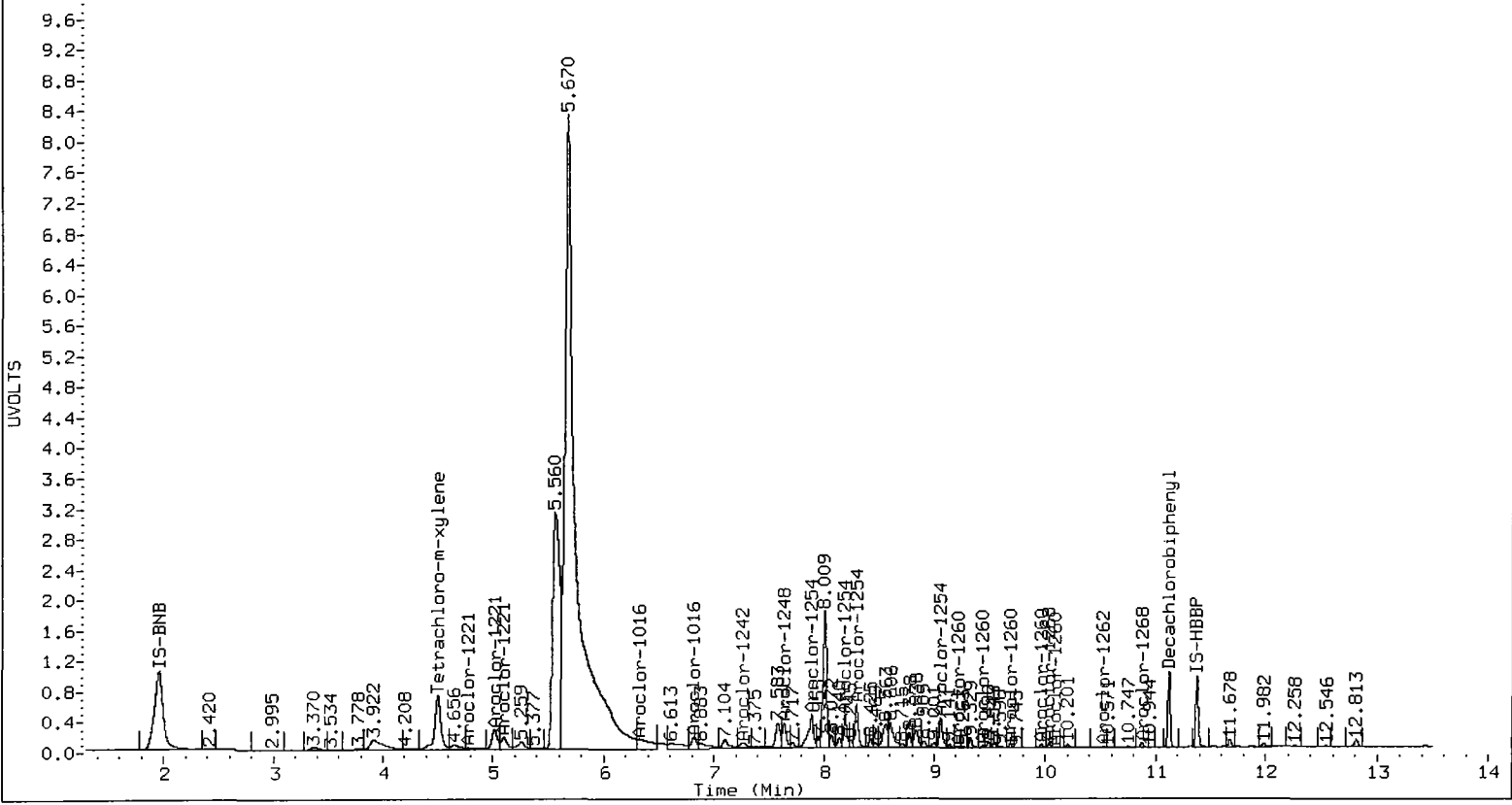
Total PCB Area Col2 (5.245 - 11.743) = 418960494

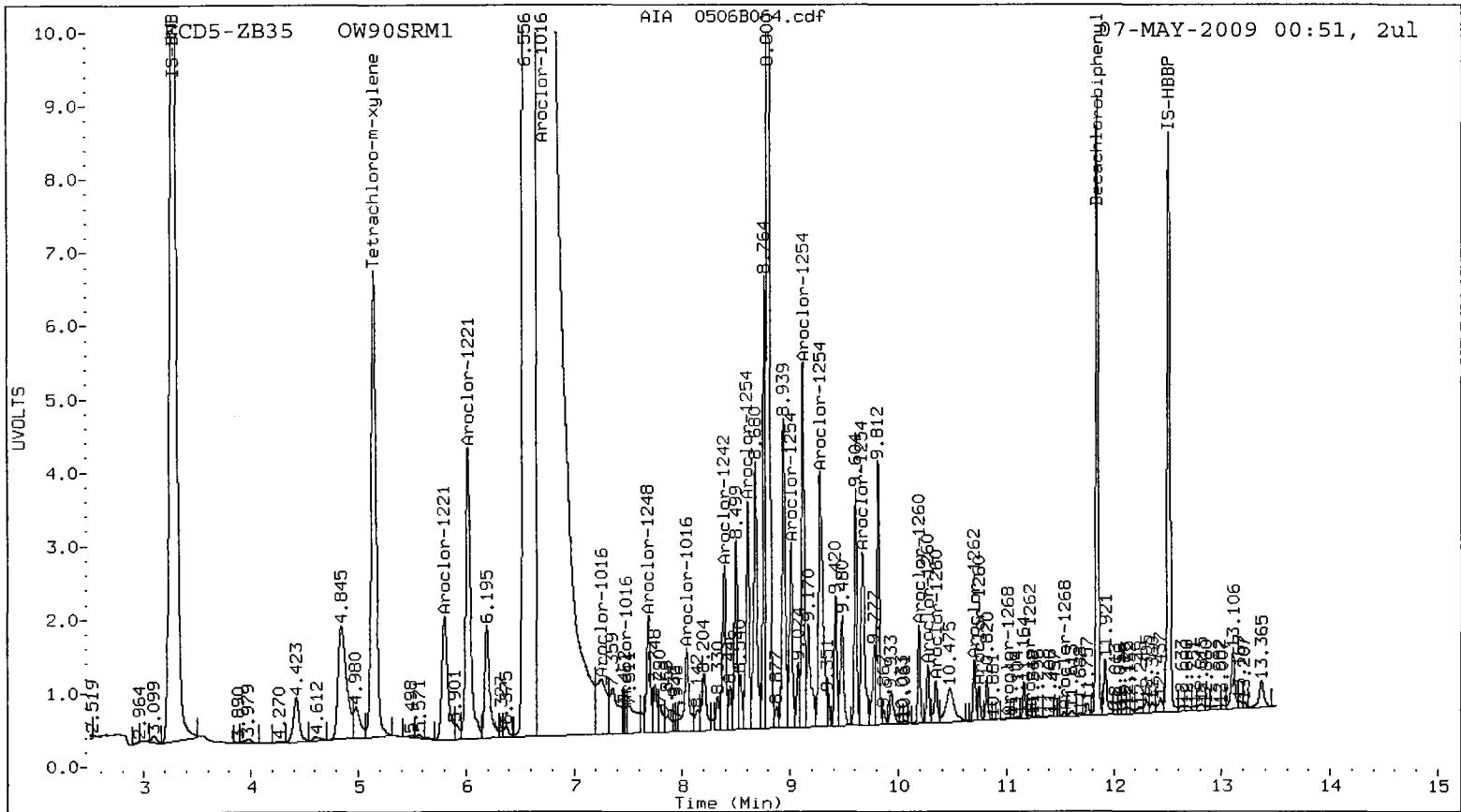
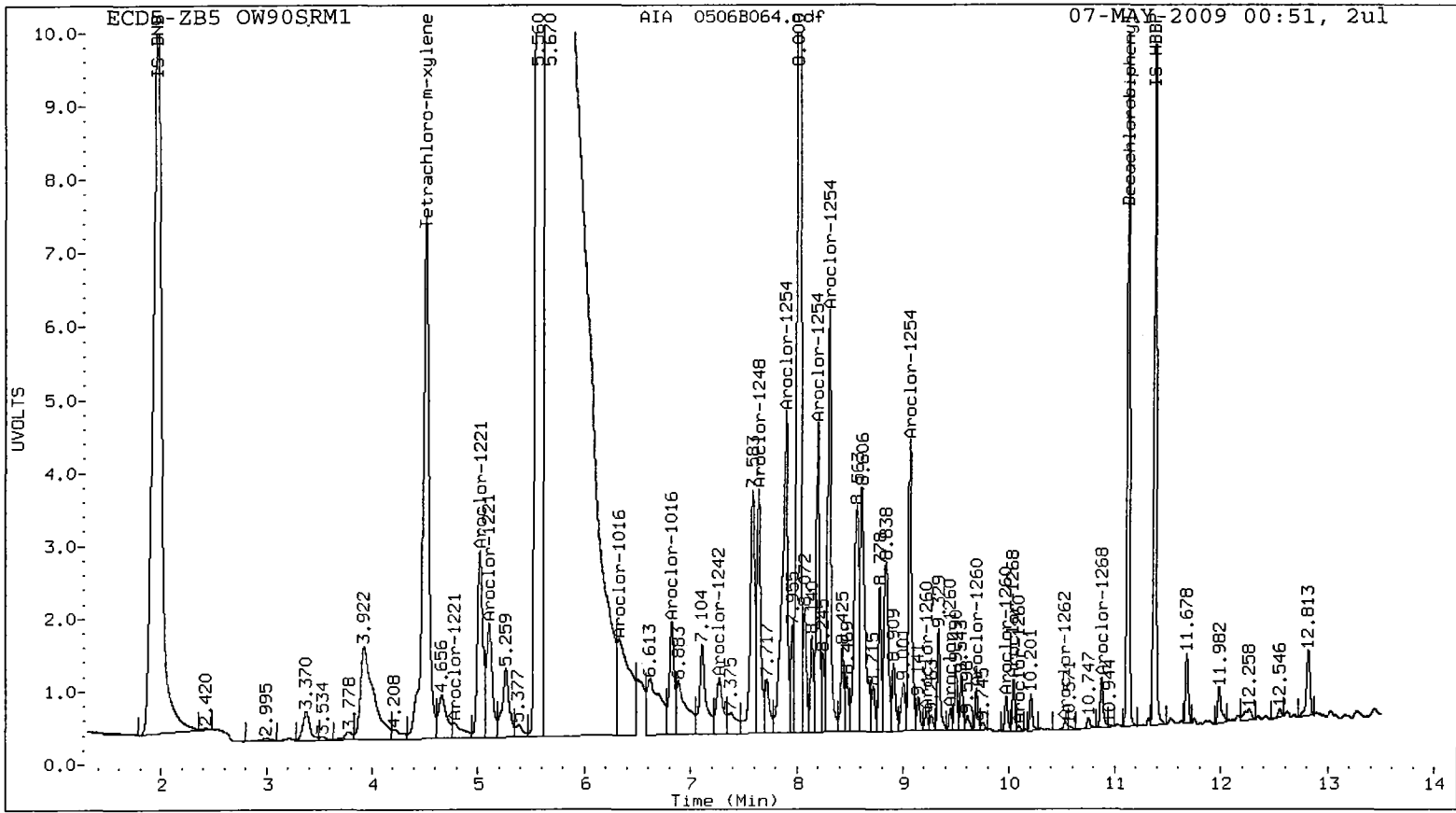
Col2 Total PCB = 2.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

0450 : 00499





PCB Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

OW90 : 00502



Preparation Test PCB # 5

ARI Job No(s) OW 90

PSDDA (20ppb)

Batch set up by: SP

Bottle #	ARI Sample I.D.	Verify Client ID	Volume Extracted	KD Exchange To Hexane (X 2)	Turbo Vap	(REQ) Acid Clean	(REQ) Sulfur Clean	(opt) Silica Gel Clean (1:5)	Turbo Vap	Final Effective Volume	Volume to Lab	Comments
					① 2 3	Ⓚ	Ⓚ	Y/N	1 2 3			
	<u>OW90</u> ^{MBS}	Date <u>5/4/09</u>	25.00g		↓	5mL	5mL	4mL	↓	5mL	1mL	10g Actual Weight
	↓ SBS	↓	↓		↓	↓	↓	↓	↓	↓	↓	↓
	↓ SBS Dup											
N/A	<u>OW9050-1</u>		25.12		↓	↓	↓	↓	↓	↓	↓	
1	A	<u>Checked</u>	62.03		↓	↓	↓	↓	↓	↓	↓	
3	B		63.14		↓	↓	↓	↓	↓	↓	↓	
↓	C		57.03		↓	↓	↓	↓	↓	↓	↓	
1	D		51.19		↓	↓	↓	↓	↓	↓	↓	
↓	E		56.07		↓	↓	↓	↓	↓	↓	↓	
↓	EMS		56.70		↓	↓	↓	↓	↓	↓	↓	
↓	EMSD		56.60		↓	↓	↓	↓	↓	↓	↓	
↓	F		39.14		↓	↓	↓	↓	↓	↓	↓	

CJE

Analyst/Date: WC 5/4/09 TKY 5/4/09 RRJAB 5/05/09 Y 5/5/09

Standard Surrogate	Standard ID	Volume	Expiration Date	Analyst	Witness
	<u>N 2</u>	<u>100µL</u>	<u>7/31/09</u>	<u>WC</u>	<u>SP</u>
Spike	<u>1</u>	<u>125µL</u>	<u>10/10/09</u>	<u>WC</u>	<u>SP</u>

Extraction Time: 1335

- SPECIAL INSTRUCTIONS: 1. Weigh into 400mL beakers. 2. Extract 3X with 8:2 Hexane/Acetone. 3. Collect into 500mL E-Flask with 15-20g sodium sulfate in the bottom+large funnel with neutral glasswool plug. (NO SULFATE IN FUNNEL). 4. KD (Normal Drying Column) on 100° bath. 5. Exchange (2 X with 20mL) Hexane. 6. TurboVap. 7. Clean-ups. 8. TurboVap (if Silica Clean). 9. Vial with Hexane. A. Need Total Solids Y/N (N) B. Archive/Freeze Y/N (N)

Analytical Resources Inc.: Organics Instrument Log

ECD5 Serial No.: US00034118

Date: 05/06/09 Analysis: PCBs Analyst: JK/PL/YZ
 GC Program: PCB2 Column No: B5079/148679 Column Type: ZB5/ZB35
 Instrument Tune (.U or .CT.): NA EM Voltage: NA
 Calibration File: NA Curve Date: 05/06/09

IS/SS	Ical/Ccal	LCS/ICV
1546-3	1540-1	
	1548-1,2,3	
	1549-1,2	

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd5.i/20090506.b/ical-1.b
 /chem2/ecd5.i/20090506.b/ical-2.b

Inject	Date/Time	Filename	DF	LabID	ClientID
1	06-MAY-2009 14:34	0506B028.d	1	IB	
2	06-MAY-2009 14:51	0506B029.d	1	0.25 PPM AR1660	
3	06-MAY-2009 15:08	0506B030.d	1	0.02 PPM AR1660	
4	06-MAY-2009 15:25	0506B031.d	1	1 PPM AR1660	
5	06-MAY-2009 15:42	0506B032.d	1	0.1 PPM AR1660	
6	06-MAY-2009 15:59	0506B033.d	1	0.5 PPM AR1660	
7	06-MAY-2009 16:17	0506B034.d	1	AR1660 ICV	
8	06-MAY-2009 16:34	0506B035.d	1	AR1242	
9	06-MAY-2009 16:51	0506B036.d	1	AR1248	
10	06-MAY-2009 17:08	0506B037.d	1	AR1254	
11	06-MAY-2009 17:25	0506B038.d	1	AR2162	
12	06-MAY-2009 17:42	0506B039.d	1	AR3268	
13	06-MAY-2009 18:34	0506B042.d	1	0.1 PPM DDTs	
14	06-MAY-2009 18:51	0506B043.d	1	AR1660	
15	06-MAY-2009 19:08	0506B044.d	1	AR1254	
16	06-MAY-2009 19:25	0506B045.d	1	OW95MBS1	OW95MBS1
17	06-MAY-2009 19:43	0506B046.d	1	OW95LCSS1	OW95LCSS1
18	06-MAY-2009 20:00	0506B047.d	1	OW95LCSDS1	OW95LCSDS1
19	06-MAY-2009 20:17	0506B048.d	1	OW95SRM1	SQ-1
20	06-MAY-2009 20:34	0506B049.d	5	OW95A	LDW-ISWM-A5-01-S
21	06-MAY-2009 20:51	0506B050.d	5	OW95B	LDW-ISWM-A6-01-S
22	06-MAY-2009 21:08	0506B051.d	5	OW95C	LDW-ISWM-A7-01-S
23	06-MAY-2009 21:26	0506B052.d	5	OW95D	LDW-ISWM-A8-01-S
24	06-MAY-2009 21:43	0506B053.d	5	OW95E	LDW-ISWM-A1-01-S
25	06-MAY-2009 22:00	0506B054.d	1	AR1248	
26	06-MAY-2009 22:17	0506B055.d	1	AR1660	
27	06-MAY-2009 22:34	0506B056.d	1	OW95F	LDW-ISWM-A2-01-S
28	06-MAY-2009 22:51	0506B057.d	5	OW95G	LDW-ISWM-A3-01-S
29	06-MAY-2009 23:08	0506B058.d	5	OW95H	LDW-ISWM-A3-02-S
30	06-MAY-2009 23:25	0506B059.d	5	OW95I	LDW-ISWM-A4-01-S
31	06-MAY-2009 23:43	0506B060.d	1	AR1242	
32	06-MAY-2009 00:00	0506B061.d	1	AR1660	
33	07-MAY-2009 00:17	0506B062.d	1	OW90MBS1	OW90MBS1
34	07-MAY-2009 00:34	0506B063.d	1	OW90LCSS1	OW90LCSS1
35	07-MAY-2009 00:51	0506B064.d	1	OW90SRM1	SQ-1
36	07-MAY-2009 01:08	0506B065.d	1	OW90A	10654007
37	07-MAY-2009 01:25	0506B066.d	1	OW90B	10654008
38	07-MAY-2009 01:42	0506B067.d	1	OW90C	10654009
39	07-MAY-2009 01:59	0506B068.d	1	OW90D	10654011
40	07-MAY-2009 02:16	0506B069.d	1	OW90E	10654018
41	07-MAY-2009 02:34	0506B070.d	1	OW90EMS	10654018 MS
42	07-MAY-2009 02:51	0506B071.d	1	OW90EMSD	10654018 MSD
43	07-MAY-2009 03:08	0506B072.d	1	OW90F	10654028
44	07-MAY-2009 03:25	0506B073.d	1	AR1254	
45	07-MAY-2009 03:42	0506B074.d	1	AR1660	
46	07-MAY-2009 03:59	0506B075.d	1	RINSE	
47	07-MAY-2009 04:16	0506B076.d	1	RINSE	
48	07-MAY-2009 04:33	0506B077.d	1	RINSE	

YZ 5/16/09

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

ECD5 Serial No.: US00034118

Date: 05/06/09 Analysis: PCBs Analyst: JK/PK/YZ
 GC Program: PCB2 Column No: 135079/148679 Column Type: ZB5/ZB35
 Instrument Tune (.U or .CT.): NA EM Voltage: NA
 Calibration File: NA Curve Date: 05/06/09

IS/SS	Ical/Ccal	LCS/ICV
<u>1546-3</u>	<u>1540-1</u>	
	<u>1548-1,2,3</u>	
	<u>1549-1,2</u>	

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd5.i/20090506.b/ical-1.b
 /chem2/ecd5.i/20090506.b/ical-2.b

Inject	Date/Time	Filename	DF	LabID	ClientID
1	06-MAY-2009 14:34	0506B028.d	1	IB	
2	06-MAY-2009 14:51	0506B029.d	1	0.25 PPM AR1660	
3	06-MAY-2009 15:08	0506B030.d	1	0.02 PPM AR1660	
4	06-MAY-2009 15:25	0506B031.d	1	1 PPM AR1660	
5	06-MAY-2009 15:42	0506B032.d	1	0.1 PPM AR1660	
6	06-MAY-2009 15:59	0506B033.d	1	0.5 PPM AR1660	
7	06-MAY-2009 16:17	0506B034.d	1	AR1660 ICV	
8	06-MAY-2009 16:34	0506B035.d	1	AR1242	
9	06-MAY-2009 16:51	0506B036.d	1	AR1248	
10	06-MAY-2009 17:08	0506B037.d	1	AR1254	
11	06-MAY-2009 17:25	0506B038.d	1	AR2162	
12	06-MAY-2009 17:42	0506B039.d	1	AR3268	
13	06-MAY-2009 18:34	0506B042.d	1	0.1 PPM DDTS	
14	06-MAY-2009 18:51	0506B043.d	1	AR1660	
15	06-MAY-2009 19:08	0506B044.d	1	AR1254	
16	06-MAY-2009 19:25	0506B045.d	1	OW95MBS1	OW95MBS1
17	06-MAY-2009 19:43	0506B046.d	1	OW95LCSS1	OW95LCSS1
18	06-MAY-2009 20:00	0506B047.d	1	OW95LCSDS1	OW95LCSDS1
19	06-MAY-2009 20:17	0506B048.d	1	OW95SRM1	SQ-1
20	06-MAY-2009 20:34	0506B049.d	5	OW95A	LDW-ISWM-A5-01-S
21	06-MAY-2009 20:51	0506B050.d	5	OW95B	LDW-ISWM-A6-01-S
22	06-MAY-2009 21:08	0506B051.d	5	OW95C	LDW-ISWM-A7-01-S
23	06-MAY-2009 21:26	0506B052.d	5	OW95D	LDW-ISWM-A8-01-S
24	06-MAY-2009 21:43	0506B053.d	5	OW95E	LDW-ISWM-A1-01-S
25	06-MAY-2009 22:00	0506B054.d	1	AR1248	
26	06-MAY-2009 22:17	0506B055.d	1	AR1660	
27	06-MAY-2009 22:34	0506B056.d	1	OW95F	LDW-ISWM-A2-01-S
28	06-MAY-2009 22:51	0506B057.d	5	OW95G	LDW-ISWM-A3-01-S
29	06-MAY-2009 23:08	0506B058.d	5	OW95H	LDW-ISWM-A3-02-S
30	06-MAY-2009 23:25	0506B059.d	5	OW95I	LDW-ISWM-A4-01-S
31	06-MAY-2009 23:43	0506B060.d	1	AR1242	
32	06-MAY-2009 00:00	0506B061.d	1	AR1660	
33	07-MAY-2009 00:17	0506B062.d	1	OW90MBS1	OW90MBS1
34	07-MAY-2009 00:34	0506B063.d	1	OW90LCSS1	OW90LCSS1
35	07-MAY-2009 00:51	0506B064.d	1	OW90SRM1	SQ-1
36	07-MAY-2009 01:08	0506B065.d	1	OW90A	10654007
37	07-MAY-2009 01:25	0506B066.d	1	OW90B	10654008
38	07-MAY-2009 01:42	0506B067.d	1	OW90C	10654009
39	07-MAY-2009 01:59	0506B068.d	1	OW90D	10654011
40	07-MAY-2009 02:16	0506B069.d	1	OW90E	10654018
41	07-MAY-2009 02:34	0506B070.d	1	OW90EMS	10654018 MS
42	07-MAY-2009 02:51	0506B071.d	1	OW90EMSD	10654018 MSD
43	07-MAY-2009 03:08	0506B072.d	1	OW90F	10654028
44	07-MAY-2009 03:25	0506B073.d	1	AR1254	
45	07-MAY-2009 03:42	0506B074.d	1	AR1660	
46	07-MAY-2009 03:59	0506B075.d	1	RINSE	
47	07-MAY-2009 04:16	0506B076.d	1	RINSE	
48	07-MAY-2009 04:33	0506B077.d	1	RINSE	

YZ 5/6/09

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Metals Analysis
QC Summary Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Geomatrix

PROJECT: Former Custom Plywoo

SDG: OW90

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
10654007	OW90A	09-10068	
10654007D	OW90ADUP	09-10068	
10654007S	OW90ASPK	09-10068	
10654008	OW90B	09-10069	
PBS	OW90MB1	09-10069	
LCSS	OW90MB1SPK	09-10069	
LCSS	OW90REF1	09-10069	
10654009	OW90C	09-10070	
10654011	OW90D	09-10071	
10654018	OW90E	09-10072	
10654028	OW90F	09-10073	

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: 

Name: Jay Kuhn

Date: 5/8/09

Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

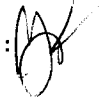
Page 1 of 1

**Sample ID: 10654007
DUPLICATE**

Lab Sample ID: OW90A

LIMS ID: 09-10068

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	10	10	0.0%	+/- 10	L
Cadmium	6010B	1.7	1.6	6.1%	+/- 0.5	L
Chromium	6010B	38	37	2.7%	+/- 20%	
Copper	6010B	44.9	43.3	3.6%	+/- 20%	
Lead	6010B	10	9	10.5%	+/- 5	L
Silver	6010B	0.7 U	0.7 U	0.0%	+/- 0.7	L
Zinc	6010B	95	94	1.1%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654007

MATRIX SPIKE

Lab Sample ID: OW90A

LIMS ID: 09-10068

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	10	490	477	101%	
Cadmium	6010B	1.7	119	119	98.6%	
Chromium	6010B	38	161	119	103%	
Copper	6010B	44.9	160	119	96.7%	
Lead	6010B	10	472	477	96.9%	
Silver	6010B	0.7 U	110	119	92.4%	
Zinc	6010B	95	217	119	103%	

Reported in mg/kg-dry

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: OW90MB

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: NA

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	5	5	U
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	0.5	0.5	U
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.2	0.2	U
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	2	2	U
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.3	0.3	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: OW90LCS

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	206	200	103%	
Cadmium	6010B	50.1	50.0	100%	
Chromium	6010B	49.9	50.0	99.8%	
Copper	6010B	50.7	50.0	101%	
Lead	6010B	202	200	101%	
Silver	6010B	49.7	50.0	99.4%	
Zinc	6010B	48	50	96.0%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: STD REFERENCE
ERA D053540

Lab Sample ID: OW90SRM

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: NA

Date Received: NA

Analyte	Analysis Method	Analysis Date	mg/kg-dry	Certified Value	Advisory Range
Arsenic	6010B	05/06/09	146	132	106-157
Cadmium	6010B	05/06/09	76.4	66.5	54.6-78.4
Chromium	6010B	05/06/09	80.0	72.9	57.8-88.1
Copper	6010B	05/06/09	74.8	68.5	57.0-80.0
Lead	6010B	05/06/09	142	130	106-154
Silver	6010B	05/06/09	113	101	66.9-135
Zinc	6010B	05/06/09	186	177	140-214

Calibration Verification



CLIENT: Geomatrix

PROJECT: Former Custom Plywoo

UNITS: ug/L

SDG: OW90

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	ICP	IP050671	2000.0	1963.07	98.2	2000.0	1972.89	98.6	2000.67	100.0	2003.74	100.2	2027.36	101.4	1998.94	99.9
Cadmium	CD	ICP	IP050671	1000.0	989.22	98.9	1000.0	993.49	99.3	986.57	98.7	986.49	98.6	1002.63	100.3	973.45	97.3
Chromium	CR	ICP	IP050671	1000.0	1009.70	101.0	1000.0	1027.09	102.7	1018.60	101.9	1019.76	102.0	1021.79	102.2	1023.18	102.3
Copper	CU	ICP	IP050671	1000.0	973.17	97.3	1000.0	973.79	97.4	991.11	99.1	996.68	99.7	1030.53	103.1	984.06	98.4
Lead	PB	ICP	IP050671	2000.0	2005.83	100.3	2000.0	2028.07	101.4	2020.02	101.0	2024.77	101.2	2050.99	102.5	2018.83	100.9
Silver	AG	ICP	IP050671	1000.0	949.19	94.9	1000.0	949.52	95.0	972.89	97.3	972.24	97.2	1013.54	101.4	961.02	96.1
Zinc	ZN	ICP	IP050671	1000.0	999.09	99.9	1000.0	1014.04	101.4	998.53	99.9	992.93	99.3	1000.77	100.1	1000.05	100.0

Control Limits: Mercury 80-120; Other Metals 90-110

0490 : 00510

CRDL Standard

CLIENT: Geomatrix

PROJECT: Former Custom Plywoo

SDG: OW90



UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Arsenic	AS	ICP	IP050671	50.0		50.98	102.0										
Cadmium	CD	ICP	IP050671	2.0		2.06	103.0										
Chromium	CR	ICP	IP050671	5.0		4.97	99.4										
Copper	CU	ICP	IP050671	2.0		2.04	102.0										
Lead	PB	ICP	IP050671	20.0		20.37	101.9										
Silver	AG	ICP	IP050671	3.0		2.90	96.7										
Zinc	ZN	ICP	IP050671	10.0		10.44	104.4										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks



CLIENT: Geomatrix

PROJECT: Former Custom Plywoo

UNITS: ug/L

SDG: OW90

ANALYTE	EL METH	RUN	CRDL	IDL	ICB	ICB C	CCB1	CCB1 C	CCB2	CCB2 C	CCB3	CCB3 C	CCB4	CCB4 C	CCB5	CCB5 C
Arsenic	AS ICP	IP050671	10.0	50.0	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Cadmium	CD ICP	IP050671	5.0	2.0	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Chromium	CR ICP	IP050671	10.0	5.0	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Copper	CU ICP	IP050671	25.0	2.0	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Lead	PB ICP	IP050671	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U
Silver	AG ICP	IP050671	10.0	3.0	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
Zinc	ZN ICP	IP050671	20.0	10.0	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

OW90 : 00515

ICP Interference Check Sample



CLIENT: Geomatrix

ICS SOURCE: I.V.

PROJECT: Former Custom Plywoo

RUNID: IP050671

SDG: OW90

INSTRUMENT ID: OPTIMA ICP 2

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	206513.5	201781.8	100.9						
Antimony	1000	1000	20.1	1092.8	109.3						
Arsenic	1000	1000	30.5	1063.2	106.3						
Barium	1000	1000	0.6	1022.9	102.3						
Beryllium	1000	1000	0.1	1026.4	102.6						
Boron			-9.9		-9.0						
Cadmium	1000	1000	-0.1	1046.1	104.6						
Calcium	100000	100000	102787.3	102006.5	102.0						
Chromium	1000	1000	1.1	1043.9	104.4						
Cobalt	1000	1000	3.0	1003.6	100.4						
Copper	1000	1000	2.2	1053.7	105.4						
Iron	200000	200000	197359.3	196519.9	98.3						
Lead	1000	1000	-6.0	1015.5	101.6						
Magnesium	100000	100000	105551.7	101772.6	101.8						
Manganese	1000	1000	2.4	986.8	98.7						
Molybdenum			-0.9		-1.1						
Nickel	1000	1000	1.6	986.3	98.6						
Potassium			16.7		-110.5						
Selenium	1000	1000	15.2	1044.6	104.5						
Silicon			-3.1		-15.9						
Silver	1000	1000	-1.2	1007.2	100.7						
Sodium			6.4		12.0						
Strontium			0.8		0.9						
Thallium	1000	1000	9.0	970.9	97.1						
Tin			-8.2		-8.5						
Titanium			4.7		6.3						
Vanadium	1000	1000	2.0	999.4	99.9						
Zinc	1000	1000	-2.4	986.7	98.7						

0490 : 00516

IDLs and ICP Linear Ranges



CLIENT: Geomatrix

PROJECT: Former Custom Plywoo

SDG: OW90

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENGTH (nm)	GFA BACK- GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	ICP	OPTIMA ICP 2	197.20		10	50.0	4/22/2009	30000.0	4/23/2009
Cadmium	CD	ICP	OPTIMA ICP 2	228.80		5	2.0	4/22/2009	20000.0	4/23/2009
Chromium	CR	ICP	OPTIMA ICP 2	267.72		10	5.0	4/22/2009	100000.0	4/23/2009
Copper	CU	ICP	OPTIMA ICP 2	324.75		25	2.0	4/22/2009	40000.0	4/23/2009
Lead	PB	ICP	OPTIMA ICP 2	220.35		3	20.0	4/22/2009	300000.0	4/23/2009
Silver	AG	ICP	OPTIMA ICP 2	328.07		10	3.0	4/22/2009	5000.0	4/23/2009
Zinc	ZN	ICP	OPTIMA ICP 2	213.86		20	10.0	4/22/2009	100000.0	4/23/2009

ICP Interelement Correction Factors



CLIENT: Geomatrix

PROJECT: Former Custom Plywoo

SDG: OW90

IEC DATE: 5/6/2009

INSTRUMENT ID: OPTIMA ICP 2

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	12.2555000	0.0000000	0.0000000
Arsenic	188.98	0.0000000	0.0000000	0.0000000	0.0000000	0.4582600	0.0000000	0.0000000	1.9261900	0.0000000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2681720	0.0000000	0.0000000	0.0766825
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	8.9479900	0.0000000	0.0000000	0.0000000	0.0000000	0.0748695	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.5759660	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0066757	0.0000000	-0.0487207	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0672567	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2685770	-0.0241546	0.0000000	-0.0635206
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.0133600	0.0000000	0.0000000
Lead	220.35	-0.1716510	0.0000000	0.0000000	0.0000000	-0.0199170	0.0000000	0.0000000	-2.3249200	1.6326000	0.0692720
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.1378510	0.0000000	-1.4651500	-1.0373900	0.0000000	0.2753410
Manganese	257.61	0.0058111	0.0000000	0.0000000	0.0000000	0.0027386	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0106954	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.1792350	0.0000000	0.0000000	0.0000000	0.3817060	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.0048500	0.0000000	-0.1166660
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0988868	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	8.7819900	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0440471	0.0000000	0.0000000	0.5186210	0.0000000	-0.1330600
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	-0.0341028	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.1040910	0.0000000	0.0000000	0.1180350	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-4.3567700	0.0000000	0.0271017
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0283603	0.3827210	0.0000000	0.1358710	0.0000000	0.0000000

FORM XI

ICP Interelement Correction Factors



CLIENT: Geomatrix

PROJECT: Former Custom Plywoo

SDG: OW90

IEC DATE: 5/6/2009

INSTRUMENT ID: OPTIMA ICP 2

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.000000	0.000000	13.654000	0.000000	0.000000	0.000000	0.8734310	0.000000	15.5728000	0.0000000
Antimony	206.84	0.000000	0.000000	0.000000	-0.2336600	0.000000	0.000000	-0.2111370	0.000000	-3.8296900	0.0000000
Arsenic	188.98	0.0271683	0.000000	-0.3024190	0.000000	0.000000	0.000000	0.7555900	0.000000	0.0000000	0.0000000
Barium	233.53	0.000000	0.000000	0.000000	0.0611586	0.000000	0.000000	0.000000	0.000000	0.7332740	0.0000000
Beryllium	313.04	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	3.3358400	0.0000000
Cadmium	228.80	0.000000	0.000000	0.000000	-0.8762680	0.000000	0.000000	0.000000	0.000000	0.0720255	0.0000000
Calcium	317.93	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Chromium	267.72	0.0656034	0.1496880	0.000000	0.000000	0.000000	0.000000	0.000000	-0.1852410	0.2168120	0.0000000
Cobalt	228.62	0.000000	0.000000	-0.3838350	0.1729370	0.000000	0.000000	1.9752600	0.000000	0.0000000	0.0000000
Copper	324.75	0.0051701	0.000000	0.3020870	0.000000	0.000000	0.000000	0.2335750	0.000000	0.0000000	0.0000000
Iron	273.96	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	13.3912000	0.0000000
Lead	220.35	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Magnesium	279.08	0.000000	0.000000	-2.5084000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Manganese	257.61	0.0074464	0.000000	0.000000	0.000000	-0.2285650	0.000000	0.0105028	0.000000	-0.0271638	0.0000000
Molybdenum	202.03	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	-0.0608730
Nickel	231.60	0.000000	0.000000	0.000000	0.000000	0.000000	-0.9036400	0.000000	0.000000	0.0000000	0.0000000
Potassium	766.49	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Selenium	196.03	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Silicon	288.16	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.9788200	0.000000	0.0000000	0.0000000
Silver	328.07	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.1912750	0.0000000
Sodium	589.59	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Thallium	190.80	0.000000	0.000000	-2.8707400	0.000000	0.000000	0.000000	0.3748190	0.000000	4.5219600	0.0000000
Tin	189.93	0.000000	0.000000	0.000000	0.000000	-0.0338435	-1.0198200	-0.4754160	0.000000	0.0000000	0.0000000
Titanium	334.90	0.000000	0.000000	2.4190100	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Vanadium	292.40	0.000000	-0.1493740	-0.4730220	0.000000	0.000000	0.000000	0.6244000	0.000000	0.0000000	0.0000000
Zinc	206.20	0.000000	0.000000	0.2630070	0.000000	-0.0715634	0.000000	0.000000	0.000000	0.0000000	0.0000000

Preparation Log



CLIENT: Geomatrix

ANALYSIS METHOD: ICP

PROJECT: Former Custom Plywoo

ARI PREP CODE: SWC

SDG: OW90

PREPDATE: 5/4/2009

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
10654007	OW90A	1.060	0.0	50.0
10654007D	OW90ADUP	1.060	0.0	50.0
10654007S	OW90ASPK	1.055	0.0	50.0
10654008	OW90B	1.080	0.0	50.0
10654009	OW90C	1.056	0.0	50.0
10654011	OW90D	1.018	0.0	50.0
10654018	OW90E	1.090	0.0	50.0
10654028	OW90F	1.047	0.0	50.0
PBS	OW90MB1	1.000	0.0	50.0
LCSS	OW90MB1SPK	1.000	0.0	50.0
LCSS	OW90REF1	1.005	0.0	50.0

Analysis Run Log

CLIENT: Geomatrix

PROJECT: Former Custom Plywoo

SDG: OW90

INSTRUMENT ID: OPTIMA ICP 2

RUNID: IP050671 METHOD: ICP

START DATE: 5/6/2009

END DATE: 5/6/2009



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN			
S0	S0	1.00	09023		X																												X			
S2	S2	1.00	09060																															X		
S3	S3	1.00	09074		X																													X		
S4	S4	1.00	09094																																	
S5	S5	1.00	09112																																	
S0	S0	1.00	09133		X																													X		
S5	S5	1.00	09170																																	
ICV	ICV	1.00	09204		X																														X	
ICB	ICB	1.00	09235		X																														X	
CRI	CRII	1.00	09272		X																														X	
ICSA	ICSAI	1.00	09305		X																														X	
ICSAB	ICSABE	1.00	09344		X																														X	
CCV	CCV1	1.00	09375		X																														X	
CCB	CCB1	1.00	09411		X																														X	
ZZZZZZ	OX06MB1	1.00	09444																																	
ZZZZZZ	OX06B	1.00	09481																																	
ZZZZZZ	OX06C	1.00	09520																																	
ZZZZZZ	OX06D	1.00	09553																																	
ZZZZZZ	OX06E	1.00	09591																																	
ZZZZZZ	OX06F	1.00	10025																																	
ZZZZZZ	OX06ADUP	1.00	10064																																	
ZZZZZZ	OX06A	1.00	10102																																	
ZZZZZZ	OX06ASP	1.00	10141																																	
ZZZZZZ	OX06MB1SPK	1.00	10174																																	
CCV	CCV2	1.00	10211		X																														X	
CCB	CCB2	1.00	10243		X																														X	
ZZZZZZ	OX06G	1.00	10280																																	
ZZZZZZ	OX06H	1.00	10314																																	
ZZZZZZ	OX06I	1.00	10353																																	
ZZZZZZ	OX06J	1.00	10394																																	
ZZZZZZ	OX06K	1.00	10434																																	
ZZZZZZ	OX06L	1.00	10475																																	
ZZZZZZ	OX06M	1.00	10514																																	
ZZZZZZ	OX06N	1.00	10552																																	
LCSS	OW90REF1	2.00	10585																																	

Analysis Run Log

CLIENT: Geomatrix

PROJECT: Former Custom Plywoo

SDG: OW90

INSTRUMENT ID: OPTIMA ICP 2

RUNID: IP050671 METHOD: ICP

START DATE: 5/6/2009

END DATE: 5/6/2009



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN		
ZZZZZZ	OX06MB1SPD	1.00	11022																															X	
CCV	CCV3	1.00	11055	X																				X										X	
CCB	CCB3	1.00	11091	X																				X											X
ZZZZZZ	ZZZZZZ	2.00	11123																																
PBS	OW90MB1	2.00	11163	X																				X											X
10654008	OW90B	2.00	11195	X																				X											X
10654009	OW90C	2.00	11234	X																				X											X
10654011	OW90D	2.00	11271	X																				X											X
10654018	OW90E	2.00	11310	X																				X											X
10654028	OW90F	2.00	11344	X																				X											X
10654007D	OW90ADUP	2.00	11381	X																				X											X
10654007	OW90A	2.00	11414	X																				X											X
10654007S	OW90ASP	2.00	11451	X																				X											X
CCV	CCV4	1.00	11483	X																				X											X
CCB	CCB4	1.00	11520	X																				X											X
ZZZZZZ	ZZZZZZ	2.00	11553																																
LCSS	OW90REF1	2.00	12023	X																				X											X
LCSS	OW90MB1SPK	2.00	12052	X																				X											X
CCV	CCV5	1.00	12085	X																				X											X
CCB	CCB5	1.00	12121	X																				X											X

Metals Analysis
Sample Data

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: 10654007

SAMPLE

Lab Sample ID: OW90A

LIMS ID: 09-10068

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/03/08

Date Received: 09/12/08

Percent Total Solids: 39.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.5	1.7	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	38	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.5	44.9	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	5	10	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.7	0.7	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	95	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: 10654008
SAMPLE

Lab Sample ID: OW90B

LIMS ID: 09-10069

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 40.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.5	1.7	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	41	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.5	31.8	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	5	8	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.7	0.7	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	74	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: 10654009
SAMPLE

Lab Sample ID: OW90C

LIMS ID: 09-10070

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 42.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.5	1.3	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	33	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.5	36.0	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	5	40	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.7	0.7	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	89	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: 10654011
SAMPLE

Lab Sample ID: OW90D

LIMS ID: 09-10071

Matrix: Sediment

Data Release Authorized 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 49.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.4	1.3	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	31	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.4	20.6	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	4	5	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.6	0.6	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	60	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

**Sample ID: 10654018
SAMPLE**

Lab Sample ID: OW90E

LIMS ID: 09-10072

Matrix: Sediment

Data Release Authorized 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/04/08

Date Received: 09/12/08

Percent Total Solids: 47.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	10	10	
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.4	1.2	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	1	26	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.4	17.9	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	4	6	
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.6	0.6	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	2	50	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

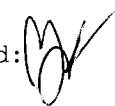
Page 1 of 1

Sample ID: 10654028
SAMPLE

Lab Sample ID: OW90F

LIMS ID: 09-10073

Matrix: Sediment

Data Release Authorized: 

Reported: 05/07/09

QC Report No: OW90-Geomatrix

Project: Former Custom Plywood Site

10654.001

Date Sampled: 09/05/08

Date Received: 09/12/08

Percent Total Solids: 67.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/04/09	6010B	05/06/09	7440-38-2	Arsenic	7	7	U
3050B	05/04/09	6010B	05/06/09	7440-43-9	Cadmium	0.3	0.4	
3050B	05/04/09	6010B	05/06/09	7440-47-3	Chromium	0.7	11.8	
3050B	05/04/09	6010B	05/06/09	7440-50-8	Copper	0.3	7.6	
3050B	05/04/09	6010B	05/06/09	7439-92-1	Lead	3	3	U
3050B	05/04/09	6010B	05/06/09	7440-22-4	Silver	0.4	0.4	U
3050B	05/04/09	6010B	05/06/09	7440-66-6	Zinc	1	22	

U-Analyte undetected at given RL

RL-Reporting Limit

Metals Analysis
Instrument Raw Data and Logs

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.



IEC Date: 5-6-09 Analysis Date: 5/6/09 Analyst: HA
LR Date: 4-22-09 Page: 1 of 5

All corrections made by analyst unless otherwise noted. HA 5/6

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		S700			2587-5
		2			-1
		3			-2
		4			-3
		5			-4 sl noisy
		0			
		5			
		ICV			2577-5
		ICB			
		ICI			
		ICSA			Co Cu Mn cont
		ICSA0			
		CCVI			
		CUBI			
		0720 MBI	DMJ		
		B			
		C			
07		D			
		E			
		F			
		ADup			
		A			
		Aspk			✓ 0.008ml H2O500 0.000ml T ₂ 2000
		MBIsplc			✓ 0.00ml ICPSPK 0.016ml Sb1000



IEC Date: _____

Analysis Date: 5-6-09

Analyst: AT

LR Date: _____

Page: 2 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		CCV2			
		CCB2			
		OTXde G	DMW		
		H			
		I			
		J			
		K			
		L			
		M			
		N			
	✓	OW90 Rept	SWC	Z	RR most low
		OTXde MB5PD	DMW		0.008ml M0500 0.008ml L1 2000 0.008 ml ICP SWC 0.016ml S6 000
		CCV3			
		CCB3			
Label		222222			
		OW90 M501	SWC	Z	
		B			
		C			
		D			
		E			
		F			
		ADup			
		A			
		Asplc			



IEC Date: _____ Analysis Date: 5-6-09 Analyst: MT
LR Date: _____ Page: 3 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		CCV4			
		CCB4			
Label		zzzzzz			Are
		OW90 Rebl	Swc	2	✓
		↓ MBuspk	↓	↓	✓
		CCV5			
		CCB5			
		Fe 41-7			250 ppm 99.2%
		blk			
		Fe 44-1			Re-run (500 ppm)
		blk			
		Fe 44-1			✓ 250 ppm 102.1%
		blk			
		Al 47-5			250 ppm 100.0%
		blk			
		Al 43-19			✓ 250 ppm 100.4%
		blk			
		CCV 6			
		CCB 6			
	✓	OXDP MBZ	twc		Sc noisy Re-run
		↓ Q	↓		
		↓ R	↓		
		↓ S	↓		
		↓ T	↓		

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 5-6-09

OPT 2	Analyst M5-7	Peer W.D. 5-7-09	Comment
Logbook			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	see log
Curve fit	✓	✓	
Calibration Verification			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	see log
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	✓	✓	
Matrix QC			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAP's	✓	✓	

Nebulizer Parameters: Hg_ReAlign

Analyte Back Pressure Flow
All 222.0 kPa 0.75 L/min

5/6/2009 8:45:26 AM Hg ReAlign... Actual peak offset (nm): 0.002
Drift (nm): 0.000 Slit adjustment: 0

Analysis Begun

Start Time: 5/6/2009 9:02:30 AM Plasma On Time: 5/6/2009 7:59:12 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 7300 DV, S/N 077C8121202Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif
Batch ID:
Results Data Set: I2090506
Results Library: C:\pe\metals\Results\Results.mdb

Method Loaded

Method Name: 7300bcESI Method Last Saved: 5/6/2009 7:38:18 AM
IEC File: IEC1B.iec MSF File:
Method Description: 12Axial Elements

Table with 6 columns: Analyte, Calibration Equation, Processing, View, Internal Standard, IEC. Lists various elements like Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn and their corresponding calibration and processing details.

Sequence No.: 1
Sample ID: Calib Blank 1

Autosampler Location: 1
Date Collected: 5/6/2009 9:02:35 AM
Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte Back Pressure Flow
All 223.0 kPa 0.75 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected		Std.Dev.	RSD	Calib	
	Intensity				Conc.	Units
ScA 357.253	2525440.6		18269.67	0.72%	100.0	%
ScR 361.383	405939.6		3651.70	0.90%	100.0	%
Ag 328.068†	-134.4		29.25	21.76%	[0.00]	mg/L
Al 308.215†	-34.6		24.00	69.33%	[0.00]	mg/L
As 188.979†	-18.5		2.22	11.96%	[0.00]	mg/L
B 249.677†	-72.0		14.57	20.24%	[0.00]	mg/L
Ba 233.527†	84.0		6.59	7.85%	[0.00]	mg/L
Be 313.042†	2476.8		22.20	0.90%	[0.00]	mg/L
Ca 317.933†	495.4		24.79	5.00%	[0.00]	mg/L
Cd 228.802†	340.4		5.36	1.58%	[0.00]	mg/L
Co 228.616†	-85.2		3.87	4.54%	[0.00]	mg/L
Cr 267.716†	-365.2		14.12	3.87%	[0.00]	mg/L
Cu 324.752†	3204.6		56.99	1.78%	[0.00]	mg/L
Fe 273.955†	36.9		2.85	7.74%	[0.00]	mg/L
K 766.490†	-130.3		34.64	26.58%	[0.00]	mg/L
Mg 279.077†	19.9		8.07	40.46%	[0.00]	mg/L
Mn 257.610†	695.4		7.51	1.08%	[0.00]	mg/L
Mo 202.031†	50.7		4.99	9.85%	[0.00]	mg/L
Na 589.592†	1431.5		56.64	3.96%	[0.00]	mg/L
Na 330.237†	-492.9		2.48	0.50%	[0.00]	mg/L
Ni 231.604†	-85.3		2.26	2.65%	[0.00]	mg/L
Pb 220.353†	-106.0		3.09	2.92%	[0.00]	mg/L
Sb 206.836†	60.9		1.63	2.68%	[0.00]	mg/L
Se 196.026†	-58.8		5.10	8.68%	[0.00]	mg/L
Si 288.158†	153.1		4.71	3.08%	[0.00]	mg/L
Sn 189.927†	-18.1		1.18	6.53%	[0.00]	mg/L
Sr 421.552†	-436.4		8.15	1.87%	[0.00]	mg/L
Ti 334.903†	-322.9		17.54	5.43%	[0.00]	mg/L
Tl 190.801†	-32.2		2.78	8.63%	[0.00]	mg/L
V 292.402†	184.2		6.59	3.58%	[0.00]	mg/L
Zn 206.200†	-40.8		0.51	1.25%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 5/6/2009 9:06:09 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	223.0 kPa	0.75 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2568780.3	24930.88	0.97%	101.7	%
ScR 361.383	405633.4	1132.78	0.28%	99.92	%
Ba 233.527†	73123.6	463.17	0.63%	[10]	mg/L
Cd 228.802†	264469.1	880.03	0.33%	[10]	mg/L
Co 228.616†	369287.7	3430.08	0.93%	[10]	mg/L
Cr 267.716†	83140.0	375.63	0.45%	[10]	mg/L
Cu 324.752†	3359928.9	29387.57	0.87%	[10]	mg/L
Mn 257.610†	747265.9	4244.88	0.57%	[10]	mg/L
V 292.402†	1039498.0	1319.76	0.13%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 5/6/2009 9:07:40 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte Back Pressure Flow
All 223.0 kPa 0.75 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2527538.3	17472.67	0.69%	100.1	%
ScR 361.383	397873.0	3380.14	0.85%	98.01	%
Ag 328.068†	200335.4	1468.27	0.73%	[1.0]	mg/L
As 188.979†	13869.5	227.62	1.64%	[10]	mg/L
B 249.677†	129076.5	1419.64	1.10%	[10]	mg/L
Be 313.042†	4016931.1	38830.50	0.97%	[5.0]	mg/L
Na 589.592†	808640.4	8794.04	1.09%	[50]	mg/L
Ni 231.604†	40397.2	699.25	1.73%	[10]	mg/L
Pb 220.353†	71075.0	684.36	0.96%	[10]	mg/L
Se 196.026†	12103.6	154.69	1.28%	[10]	mg/L
Sr 421.552†	4598466.3	47709.81	1.04%	[5]	mg/L
Tl 190.801†	24711.3	256.22	1.04%	[10]	mg/L
Zn 206.200†	32842.2	360.75	1.10%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 5/6/2009 9:09:43 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	223.0 kPa	0.75 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2570733.7	10248.55	0.40%	101.8	%
ScR 361.383	408595.0	957.89	0.23%	100.7	%
Mo 202.031†	188036.5	864.27	0.46%	[10]	mg/L
Sb 206.836†	33178.1	186.43	0.56%	[10]	mg/L
Si 288.158†	30154.8	100.07	0.33%	[10]	mg/L
Sn 189.927†	35233.2	267.76	0.76%	[10]	mg/L
Ti 334.903†	248786.5	950.25	0.38%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 5/6/2009 9:11:26 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	222.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2398799.6	18718.70	0.78%	94.99	%
ScR 361.383	403607.3	5273.50	1.31%	99.43	%
Al 308.215†	78807.3	1875.92	2.38%	[30]	mg/L
Ca 317.933†	457614.3	10894.28	2.38%	[30]	mg/L
Fe 273.955†	188583.8	5968.75	3.17%	[100]	mg/L
K 766.490†	204726.9	5200.97	2.54%	[100]	mg/L
Mg 279.077†	49099.2	1266.09	2.58%	[30]	mg/L
Na 330.237†	4760.6	116.07	2.44%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	200300	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	2627	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1387	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	12910	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	7312	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	803400	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	15250	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	26450	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	36930	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	8314	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	336000	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1886	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2047	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1637	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	74730	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	18800	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	16170	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	47.61	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	4040	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7108	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	3318	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1210	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	3015	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3523	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	919700	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	24880	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2471	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	103900	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	3284	0.00000	1.000000	

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Analysis Begun

Start Time: 5/6/2009 9:13:37 AM

Plasma On Time: 5/6/2009 7:59:12 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: I2090506

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Sample ID: Calib Blank 1

Date Collected: 5/6/2009 9:13:38 AM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2561812.5	12201.42	0.48%	101.4 %
ScR 361.383	410209.0	3558.98	0.87%	101.1 %
Ag 328.068†	-124.9	58.12	46.53%	[0.00] mg/L
Al 308.215†	-47.2	13.76	29.17%	[0.00] mg/L
As 188.979†	-20.7	3.38	16.29%	[0.00] mg/L
B 249.677†	-18.1	7.84	43.41%	[0.00] mg/L
Ba 233.527†	86.5	3.50	4.04%	[0.00] mg/L
Be 313.042†	2570.1	19.48	0.76%	[0.00] mg/L
Ca 317.933†	560.0	28.77	5.14%	[0.00] mg/L
Cd 228.802†	337.9	3.51	1.04%	[0.00] mg/L
Co 228.616†	-83.8	2.73	3.26%	[0.00] mg/L
Cr 267.716†	-372.1	3.41	0.92%	[0.00] mg/L
Cu 324.752†	3392.4	65.17	1.92%	[0.00] mg/L
Fe 273.955†	64.3	1.83	2.84%	[0.00] mg/L
K 766.490†	-115.2	12.14	10.54%	[0.00] mg/L
Mg 279.077†	28.1	8.29	29.54%	[0.00] mg/L
Mn 257.610†	720.7	4.61	0.64%	[0.00] mg/L
Mo 202.031†	52.3	2.35	4.50%	[0.00] mg/L
Na 589.592†	1700.7	46.51	2.73%	[0.00] mg/L
Na 330.237†	-515.9	21.67	4.20%	[0.00] mg/L
Ni 231.604†	-93.0	5.10	5.48%	[0.00] mg/L
Pb 220.353†	-102.9	1.30	1.27%	[0.00] mg/L
Sb 206.836†	66.7	1.78	2.67%	[0.00] mg/L
Se 196.026†	-59.0	4.06	6.89%	[0.00] mg/L
Si 288.158†	159.1	4.52	2.84%	[0.00] mg/L
Sn 189.927†	-18.3	1.56	8.52%	[0.00] mg/L
Sr 421.552†	-444.7	45.31	10.19%	[0.00] mg/L
Ti 334.903†	-330.5	39.23	11.87%	[0.00] mg/L
Tl 190.801†	-34.5	3.03	8.79%	[0.00] mg/L
V 292.402†	182.8	6.73	3.68%	[0.00] mg/L
Zn 206.200†	-42.6	3.27	7.68%	[0.00] mg/L

Sequence No.: 2
Sample ID: STD5

Date Collected: 5/6/2009 9:17:08 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte Back Pressure Flow
All 223.0 kPa 0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
ScA 357.253	2419875.9	12815.22	0.53%	95.82	%
ScR 361.383	409292.8	1499.76	0.37%	100.8	%
Al 308.215†	77236.1	574.07	0.74%	[30]	mg/L
Ca 317.933†	456893.5	2101.57	0.46%	[30]	mg/L
Fe 273.955†	185100.0	1122.78	0.61%	[100]	mg/L
K 766.490†	200492.2	1822.51	0.91%	[100]	mg/L
Mg 279.077†	48121.1	265.67	0.55%	[30]	mg/L
Na 330.237†	4701.2	36.60	0.78%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	200300	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	2575	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1387	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	12910	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	7312	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	803400	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	15230	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	26450	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	36930	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	8314	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	336000	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1851	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2005	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1604	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	74730	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	18800	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	16170	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	47.01	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	4040	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7108	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	3318	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1210	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	3015	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3523	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	919700	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	24880	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2471	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	103900	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	3284	0.00000	1.000000	

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Analysis Begun

Start Time: 5/6/2009 9:20:38 AM

Plasma On Time: 5/6/2009 7:59:12 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: I2090506

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 5/6/2009 9:20:40 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2561459.6	101.4 %	0.44			0.44%
ScR 361.383	405742.7	99.95 %	0.659			0.66%
Ag 328.068†	190139.7	0.9492 mg/L	0.00467	0.9492 mg/L	0.00467	0.49%
Al 308.215†	5302.9	2.030 mg/L	0.0223	2.030 mg/L	0.0223	1.10%
As 188.979†	2725.4	1.963 mg/L	0.0070	1.963 mg/L	0.0070	0.36%
B 249.677†	12420.3	0.9614 mg/L	0.01027	0.9614 mg/L	0.01027	1.07%
Ba 233.527†	7275.6	0.9943 mg/L	0.01041	0.9943 mg/L	0.01041	1.05%
Be 313.042†	804269.8	0.9979 mg/L	0.01184	0.9979 mg/L	0.01184	1.19%
Ca 317.933†	30248.1	1.986 mg/L	0.0229	1.986 mg/L	0.0229	1.15%
Cd 228.802†	26608.0	0.9892 mg/L	0.00761	0.9892 mg/L	0.00761	0.77%
Co 228.616†	36827.2	0.9954 mg/L	0.00427	0.9954 mg/L	0.00427	0.43%
Cr 267.716†	8397.2	1.010 mg/L	0.0120	1.010 mg/L	0.0120	1.19%
Cu 324.752†	327017.9	0.9732 mg/L	0.00643	0.9732 mg/L	0.00643	0.66%
Fe 273.955†	3796.8	2.039 mg/L	0.0214	2.039 mg/L	0.0214	1.05%
K 766.490†	39379.7	19.64 mg/L	0.205	19.64 mg/L	0.205	1.04%
Mg 279.077†	3257.8	2.035 mg/L	0.0308	2.035 mg/L	0.0308	1.51%
Mn 257.610†	72237.4	0.9671 mg/L	0.01231	0.9671 mg/L	0.01231	1.27%
Mo 202.031†	18577.7	0.9880 mg/L	0.00435	0.9880 mg/L	0.00435	0.44%
Na 589.592†	769363.8	47.57 mg/L	0.480	47.57 mg/L	0.480	1.01%
Na 330.237†	2316.7	49.08 mg/L	0.166	49.08 mg/L	0.166	0.34%
Ni 231.604†	3949.4	0.9789 mg/L	0.00646	0.9789 mg/L	0.00646	0.66%
Pb 220.353†	14249.2	2.006 mg/L	0.0071	2.006 mg/L	0.0071	0.35%
Sb 206.836†	6592.7	1.988 mg/L	0.0066	1.988 mg/L	0.0066	0.33%
Se 196.026†	2359.8	1.950 mg/L	0.0035	1.950 mg/L	0.0035	0.18%
Si 288.158†	6336.9	2.101 mg/L	0.0204	2.101 mg/L	0.0204	0.97%
Sn 189.927†	3441.1	0.9793 mg/L	0.00220	0.9793 mg/L	0.00220	0.22%
Sr 421.552†	938445.5	1.020 mg/L	0.0088	1.020 mg/L	0.0088	0.86%
Ti 334.903†	24711.9	0.9906 mg/L	0.01422	0.9906 mg/L	0.01422	1.44%
Tl 190.801†	4867.9	1.960 mg/L	0.0070	1.960 mg/L	0.0070	0.36%
V 292.402†	99806.1	0.9645 mg/L	0.00802	0.9645 mg/L	0.00802	0.83%
Zn 206.200†	3283.5	0.9991 mg/L	0.01346	0.9991 mg/L	0.01346	1.35%

Sequence No.: 2
 Sample ID:)CB

Autosampler Location: 1
 Date Collected: 5/6/2009 9:23:58 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 223.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2530321.3	100.2 %	%	0.34			0.34%
ScR 361.383	406851.5	100.2 %	%	1.01			1.00%
Ag 328.068†	26.6	0.00013 mg/L	mg/L	0.000436	0.00013 mg/L	0.000436	328.53%
Al 308.215†	35.9	0.01392 mg/L	mg/L	0.009605	0.01392 mg/L	0.009605	69.01%
As 188.979†	3.3	0.00236 mg/L	mg/L	0.002638	0.00236 mg/L	0.002638	111.62%
B 249.677†	-17.0	-0.00132 mg/L	mg/L	0.000227	-0.00132 mg/L	0.000227	17.23%
Ba 233.527†	0.2	0.00002 mg/L	mg/L	0.000982	0.00002 mg/L	0.000982	>999.9%
Be 313.042†	11.9	0.00001 mg/L	mg/L	0.000041	0.00001 mg/L	0.000041	311.69%
Ca 317.933†	-62.7	-0.00412 mg/L	mg/L	0.001831	-0.00412 mg/L	0.001831	44.45%
Cd 228.802†	10.4	0.00037 mg/L	mg/L	0.000193	0.00037 mg/L	0.000193	51.82%
Co 228.616†	8.5	0.00023 mg/L	mg/L	0.000255	0.00023 mg/L	0.000255	110.71%
Cr 267.716†	-3.9	-0.00047 mg/L	mg/L	0.000526	-0.00047 mg/L	0.000526	111.61%
Cu 324.752†	4.4	0.00001 mg/L	mg/L	0.000204	0.00001 mg/L	0.000204	>999.9%
Fe 273.955†	-26.1	-0.01410 mg/L	mg/L	0.001078	-0.01410 mg/L	0.001078	7.65%
K 766.490†	-1.5	-0.00076 mg/L	mg/L	0.024242	-0.00076 mg/L	0.024242	>999.9%
Mg 279.077†	-0.6	-0.00034 mg/L	mg/L	0.007090	-0.00034 mg/L	0.007090	>999.9%
Mn 257.610†	-6.1	-0.00008 mg/L	mg/L	0.000076	-0.00008 mg/L	0.000076	93.76%
Mo 202.031†	7.7	0.00041 mg/L	mg/L	0.000441	0.00041 mg/L	0.000441	107.31%
Na 589.592†	-55.6	-0.00344 mg/L	mg/L	0.000634	-0.00344 mg/L	0.000634	18.45%
Na 330.237†	24.2	0.5137 mg/L	mg/L	0.28357	0.5137 mg/L	0.28357	55.20%
Ni 231.604†	6.1	0.00152 mg/L	mg/L	0.001168	0.00152 mg/L	0.001168	77.11%
Pb 220.353†	3.9	0.00055 mg/L	mg/L	0.000534	0.00055 mg/L	0.000534	97.77%
Sb 206.836†	3.9	0.00118 mg/L	mg/L	0.001120	0.00118 mg/L	0.001120	94.57%
Se 196.026†	0.5	0.00039 mg/L	mg/L	0.003347	0.00039 mg/L	0.003347	864.03%
Si 288.158†	-8.1	-0.00268 mg/L	mg/L	0.002842	-0.00268 mg/L	0.002842	106.22%
Sn 189.927†	4.2	0.00119 mg/L	mg/L	0.000237	0.00119 mg/L	0.000237	19.96%
Sr 421.552†	98.2	0.00011 mg/L	mg/L	0.000028	0.00011 mg/L	0.000028	26.46%
Ti 334.903†	-2.3	-0.00009 mg/L	mg/L	0.001224	-0.00009 mg/L	0.001224	>999.9%
Tl 190.801†	5.9	0.00240 mg/L	mg/L	0.001354	0.00240 mg/L	0.001354	56.34%
V 292.402†	55.4	0.00053 mg/L	mg/L	0.000317	0.00053 mg/L	0.000317	59.60%
Zn 206.200†	0.4	0.00011 mg/L	mg/L	0.001295	0.00011 mg/L	0.001295	>999.9%

Sequence No.: 3
Sample ID: CRI

Autosampler Location: 301
Date Collected: 5/6/2009 9:27:28 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	223.0 kPa	0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2519376.3	99.76	%	1.338				1.34%
ScR 361.383	403182.0	99.32	%	0.171				0.17%
Ag 328.068†	581.8	0.00290	mg/L	0.000106	0.00290	mg/L	0.000106	3.67%
Al 308.215†	148.8	0.05768	mg/L	0.004787	0.05768	mg/L	0.004787	8.30%
As 188.979†	70.7	0.05098	mg/L	0.001083	0.05098	mg/L	0.001083	2.12%
B 249.677†	207.5	0.01607	mg/L	0.000376	0.01607	mg/L	0.000376	2.34%
Ba 233.527†	21.3	0.00291	mg/L	0.000233	0.00291	mg/L	0.000233	8.00%
Be 313.042†	718.4	0.00088	mg/L	0.000006	0.00088	mg/L	0.000006	0.71%
Ca 317.933†	685.1	0.04498	mg/L	0.001502	0.04498	mg/L	0.001502	3.34%
Cd 228.802†	66.4	0.00206	mg/L	0.000146	0.00206	mg/L	0.000146	7.08%
Co 228.616†	106.9	0.00289	mg/L	0.000155	0.00289	mg/L	0.000155	5.36%
Cr 267.716†	41.3	0.00497	mg/L	0.000548	0.00497	mg/L	0.000548	11.02%
Cu 324.752†	686.5	0.00204	mg/L	0.000158	0.00204	mg/L	0.000158	7.75%
Fe 273.955†	66.1	0.03570	mg/L	0.000859	0.03570	mg/L	0.000859	2.41%
K 766.490†	982.4	0.4900	mg/L	0.01110	0.4900	mg/L	0.01110	2.26%
Mg 279.077†	70.0	0.04366	mg/L	0.010395	0.04366	mg/L	0.010395	23.81%
Mn 257.610†	66.0	0.00089	mg/L	0.000104	0.00089	mg/L	0.000104	11.72%
Mo 202.031†	96.1	0.00511	mg/L	0.000136	0.00511	mg/L	0.000136	2.66%
Na 589.592†	7348.5	0.4544	mg/L	0.00456	0.4544	mg/L	0.00456	1.00%
Na 330.237†	35.0	0.7409	mg/L	0.09889	0.7409	mg/L	0.09889	13.35%
Ni 231.604†	42.1	0.01046	mg/L	0.002389	0.01046	mg/L	0.002389	22.85%
Pb 220.353†	144.7	0.02037	mg/L	0.000546	0.02037	mg/L	0.000546	2.68%
Sb 206.836†	172.0	0.05188	mg/L	0.001030	0.05188	mg/L	0.001030	1.99%
Se 196.026†	59.1	0.04886	mg/L	0.003219	0.04886	mg/L	0.003219	6.59%
Si 288.158†	175.2	0.05810	mg/L	0.003993	0.05810	mg/L	0.003993	6.87%
Sn 189.927†	35.9	0.01024	mg/L	0.000101	0.01024	mg/L	0.000101	0.99%
Sr 421.552†	961.4	0.00105	mg/L	0.000037	0.00105	mg/L	0.000037	3.51%
Ti 334.903†	106.1	0.00425	mg/L	0.000632	0.00425	mg/L	0.000632	14.89%
Tl 190.801†	124.0	0.05015	mg/L	0.000342	0.05015	mg/L	0.000342	0.68%
V 292.402†	329.0	0.00319	mg/L	0.000117	0.00319	mg/L	0.000117	3.67%
Zn 206.200†	34.3	0.01044	mg/L	0.002269	0.01044	mg/L	0.002269	21.74%

Sequence No.: 4
Sample ID: ICSA

Autosampler Location: 302
Date Collected: 5/6/2009 9:30:57 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
All 223.0 kPa 0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2462029.2	97.49 %	%	0.486			0.50%
ScR 361.383	393548.0	96.95 %	%	0.777			0.80%
Ag 328.068†	-240.0	-0.00120	mg/L	0.000076	-0.00120 mg/L	0.000076	6.40%
Al 308.215†	531677.0	206.5	mg/L	2.00	206.5 mg/L	2.00	0.97%
As 188.979†	111.7	0.03054	mg/L ✓	0.002284	0.03054 mg/L	0.002284	7.48%
B 249.677†	-128.0	-0.00992	mg/L	0.002204	-0.00992 mg/L	0.002204	22.21%
Ba 233.527†	114.8	0.00056	mg/L	0.000965	0.00056 mg/L	0.000965	172.14%
Be 313.042†	88.7	0.00009	mg/L	0.000041	0.00009 mg/L	0.000041	48.23%
Ca 317.933†	1565427.6	102.8	mg/L	0.67	102.8 mg/L	0.67	0.65%
Cd 228.802†	16.1	-0.00011	mg/L	0.000231	-0.00011 mg/L	0.000231	208.53%
Co 228.616†	113.6	0.00304	mg/L <i>Cont</i>	0.000118	0.00304 mg/L	0.000118	3.89%
Cr 267.716†	-46.1	0.00110	mg/L	0.001360	0.00110 mg/L	0.001360	124.02%
Cu 324.752†	-3276.3	0.00224	mg/L <i>Cont</i>	0.000040	0.00224 mg/L	0.000040	1.77%
Fe 273.955†	365312.3	197.4	mg/L	1.98	197.4 mg/L	1.98	1.01%
K 766.490†	33.6	0.01674	mg/L	0.009315	0.01674 mg/L	0.009315	55.63%
Mg 279.077†	169418.9	105.6	mg/L <i>Cont</i>	0.40	105.6 mg/L	0.40	0.38%
Mn 257.610†	348.2	0.00238	mg/L <i>Cont</i>	0.000163	0.00238 mg/L	0.000163	6.84%
Mo 202.031†	4.1	-0.00088	mg/L	0.000530	-0.00088 mg/L	0.000530	60.21%
Na 589.592†	103.7	0.00641	mg/L	0.000890	0.00641 mg/L	0.000890	13.87%
Na 330.237†	51.7	0.1991	mg/L	0.20181	0.1991 mg/L	0.20181	101.35%
Ni 231.604†	6.6	0.00164	mg/L	0.000603	0.00164 mg/L	0.000603	36.81%
Pb 220.353†	-212.3	-0.00605	mg/L	0.001192	-0.00605 mg/L	0.001192	19.70%
Sb 206.836†	66.7	0.02009	mg/L	0.002046	0.02009 mg/L	0.002046	10.18%
Se 196.026†	-9.5	0.01517	mg/L	0.007179	0.01517 mg/L	0.007179	47.31%
Si 288.158†	-9.2	-0.00308	mg/L	0.002220	-0.00308 mg/L	0.002220	72.02%
Sn 189.927†	-41.4	-0.00822	mg/L	0.001446	-0.00822 mg/L	0.001446	17.59%
Sr 421.552†	747.6	0.00081	mg/L	0.000078	0.00081 mg/L	0.000078	9.65%
Ti 334.903†	383.2	0.00470	mg/L	0.001509	0.00470 mg/L	0.001509	32.08%
Tl 190.801†	-31.4	0.00896	mg/L	0.002802	0.00896 mg/L	0.002802	31.28%
V 292.402†	771.6	0.00204	mg/L	0.000347	0.00204 mg/L	0.000347	17.00%
Zn 206.200†	1.6	-0.00242	mg/L	0.001313	-0.00242 mg/L	0.001313	54.26%

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 303
Date Collected: 5/6/2009 9:34:42 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
All 223.0 kPa 0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2496894.7	98.87 %	0.710			0.72%
ScR 361.383	403730.7	99.46 %	0.503			0.51%
Ag 328.068†	201755.8	1.007 mg/L	0.0053	1.007 mg/L	0.0053	0.53%
Al 308.215†	519534.9	201.8 mg/L	1.24	201.8 mg/L	1.24	0.61%
As 188.979†	1544.1	1.063 mg/L	0.0086	1.063 mg/L	0.0086	0.81%
B 249.677†	-95.2	-0.00904 mg/L	0.000872	-0.00904 mg/L	0.000872	9.64%
Ba 233.527†	7593.9	1.023 mg/L	0.0026	1.023 mg/L	0.0026	0.26%
Be 313.042†	827295.8	1.026 mg/L	0.0039	1.026 mg/L	0.0039	0.38%
Ca 317.933†	1553537.6	102.0 mg/L	0.25	102.0 mg/L	0.25	0.25%
Cd 228.802†	27909.4	1.046 mg/L	0.0096	1.046 mg/L	0.0096	0.92%
Co 228.616†	37072.6	1.004 mg/L	0.0061	1.004 mg/L	0.0061	0.60%
Cr 267.716†	8624.4	1.044 mg/L	0.0029	1.044 mg/L	0.0029	0.27%
Cu 324.752†	349935.5	1.054 mg/L	0.0061	1.054 mg/L	0.0061	0.58%
Fe 273.955†	363781.3	196.5 mg/L	1.43	196.5 mg/L	1.43	0.73%
K 766.490†	-221.6	-0.1105 mg/L	0.00391	-0.1105 mg/L	0.00391	3.54%
Mg 279.077†	163352.5	101.8 mg/L	0.42	101.8 mg/L	0.42	0.42%
Mn 257.610†	73886.4	0.9868 mg/L	0.00630	0.9868 mg/L	0.00630	0.64%
Mo 202.031†	-2.2	-0.00115 mg/L	0.000184	-0.00115 mg/L	0.000184	16.10%
Na 589.592†	193.4	0.01196 mg/L	0.001878	0.01196 mg/L	0.001878	15.71%
Na 330.237†	70.8	0.2305 mg/L	0.15619	0.2305 mg/L	0.15619	67.77%
Ni 231.604†	3982.8	0.9863 mg/L	0.00404	0.9863 mg/L	0.00404	0.41%
Pb 220.353†	7049.0	1.016 mg/L	0.0035	1.016 mg/L	0.0035	0.35%
Sb 206.836†	3654.7	1.093 mg/L	0.0125	1.093 mg/L	0.0125	1.14%
Se 196.026†	1236.6	1.045 mg/L	0.0071	1.045 mg/L	0.0071	0.68%
Si 288.158†	-51.1	-0.01594 mg/L	0.003469	-0.01594 mg/L	0.003469	21.76%
Sn 189.927†	-46.1	-0.00845 mg/L	0.001366	-0.00845 mg/L	0.001366	16.16%
Sr 421.552†	860.4	0.00094 mg/L	0.000034	0.00094 mg/L	0.000034	3.67%
Ti 334.903†	424.4	0.00632 mg/L	0.000630	0.00632 mg/L	0.000630	9.97%
Tl 190.801†	2375.9	0.9709 mg/L	0.00515	0.9709 mg/L	0.00515	0.53%
V 292.402†	103953.8	0.9994 mg/L	0.00588	0.9994 mg/L	0.00588	0.59%
Zn 206.200†	3251.7	0.9867 mg/L	0.00283	0.9867 mg/L	0.00283	0.29%

Sequence No.: 6
Sample ID: CV \

Autosampler Location: 7
Date Collected: 5/6/2009 9:37:59 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	223.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2565586.1	101.6	%	0.17				0.17%
ScR 361.383	401516.5	98.91	%	0.994				1.00%
Ag 328.068†	190205.2	0.9495	mg/L	0.00255	0.9495	mg/L	0.00255	0.27%
Al 308.215†	5431.7	2.080	mg/L	0.0242	2.080	mg/L	0.0242	1.17%
As 188.979†	2739.1	1.973	mg/L	0.0111	1.973	mg/L	0.0111	0.56%
B 249.677†	12573.9	0.9733	mg/L	0.01202	0.9733	mg/L	0.01202	1.23%
Ba 233.527†	7397.7	1.011	mg/L	0.0150	1.011	mg/L	0.0150	1.48%
Be 313.042†	805236.4	0.9991	mg/L	0.01258	0.9991	mg/L	0.01258	1.26%
Ca 317.933†	30609.1	2.010	mg/L	0.0277	2.010	mg/L	0.0277	1.38%
Cd 228.802†	26722.9	0.9935	mg/L	0.00426	0.9935	mg/L	0.00426	0.43%
Co 228.616†	37161.0	1.004	mg/L	0.0013	1.004	mg/L	0.0013	0.12%
Cr 267.716†	8541.7	1.027	mg/L	0.0145	1.027	mg/L	0.0145	1.41%
Cu 324.752†	327228.2	0.9738	mg/L	0.00256	0.9738	mg/L	0.00256	0.26%
Fe 273.955†	3856.1	2.071	mg/L	0.0351	2.071	mg/L	0.0351	1.69%
K 766.490†	39587.3	19.75	mg/L	0.230	19.75	mg/L	0.230	1.17%
Mg 279.077†	3328.7	2.079	mg/L	0.0274	2.079	mg/L	0.0274	1.32%
Mn 257.610†	72827.7	0.9750	mg/L	0.01095	0.9750	mg/L	0.01095	1.12%
Mo 202.031†	18779.5	0.9988	mg/L	0.00156	0.9988	mg/L	0.00156	0.16%
Na 589.592†	770314.4	47.63	mg/L	0.536	47.63	mg/L	0.536	1.13%
Na 330.237†	2347.7	49.74	mg/L	0.721	49.74	mg/L	0.721	1.45%
Ni 231.604†	4024.8	0.9976	mg/L	0.01250	0.9976	mg/L	0.01250	1.25%
Pb 220.353†	14407.0	2.028	mg/L	0.0031	2.028	mg/L	0.0031	0.15%
Sb 206.836†	6654.5	2.006	mg/L	0.0042	2.006	mg/L	0.0042	0.21%
Se 196.026†	2372.2	1.960	mg/L	0.0055	1.960	mg/L	0.0055	0.28%
Si 288.158†	6433.0	2.132	mg/L	0.0325	2.132	mg/L	0.0325	1.52%
Sn 189.927†	3472.7	0.9883	mg/L	0.00055	0.9883	mg/L	0.00055	0.06%
Sr 421.552†	938575.0	1.021	mg/L	0.0120	1.021	mg/L	0.0120	1.18%
Ti 334.903†	24952.0	1.000	mg/L	0.0104	1.000	mg/L	0.0104	1.04%
Tl 190.801†	4907.0	1.976	mg/L	0.0021	1.976	mg/L	0.0021	0.10%
V 292.402†	99899.0	0.9654	mg/L	0.00553	0.9654	mg/L	0.00553	0.57%
Zn 206.200†	3332.6	1.014	mg/L	0.0115	1.014	mg/L	0.0115	1.14%

Sequence No.: 7
Sample ID: CB

Autosampler Location: 1
Date Collected: 5/6/2009 9:41:17 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 223.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2517211.2	99.67	%	0.619			0.62%
ScR 361.383	408046.4	100.5	%	0.89			0.88%
Ag 328.068†	76.0	0.00038	mg/L	0.000308	0.00038 mg/L	0.000308	81.13%
Al 308.215†	30.7	0.01188	mg/L	0.005000	0.01188 mg/L	0.005000	42.08%
As 188.979†	4.9	0.00353	mg/L	0.000903	0.00353 mg/L	0.000903	25.60%
B 249.677†	-10.9	-0.00085	mg/L	0.000497	-0.00085 mg/L	0.000497	58.59%
Ba 233.527†	5.7	0.00078	mg/L	0.000636	0.00078 mg/L	0.000636	81.94%
Be 313.042†	41.7	0.00005	mg/L	0.000059	0.00005 mg/L	0.000059	122.48%
Ca 317.933†	-43.8	-0.00288	mg/L	0.001731	-0.00288 mg/L	0.001731	60.13%
Cd 228.802†	33.4	0.00123	mg/L	0.000886	0.00123 mg/L	0.000886	71.94%
Co 228.616†	36.2	0.00098	mg/L	0.001185	0.00098 mg/L	0.001185	120.81%
Cr 267.716†	-4.6	-0.00055	mg/L	0.000792	-0.00055 mg/L	0.000792	143.20%
Cu 324.752†	135.2	0.00040	mg/L	0.000528	0.00040 mg/L	0.000528	131.49%
Fe 273.955†	-20.6	-0.01115	mg/L	0.000683	-0.01115 mg/L	0.000683	6.13%
K 766.490†	-41.4	-0.02064	mg/L	0.010712	-0.02064 mg/L	0.010712	51.89%
Mg 279.077†	2.6	0.00164	mg/L	0.005171	0.00164 mg/L	0.005171	314.53%
Mn 257.610†	5.8	0.00008	mg/L	0.000098	0.00008 mg/L	0.000098	126.45%
Mo 202.031†	12.4	0.00066	mg/L	0.001157	0.00066 mg/L	0.001157	175.09%
Na 589.592†	-78.2	-0.00483	mg/L	0.001260	-0.00483 mg/L	0.001260	26.06%
Na 330.237†	9.5	0.2016	mg/L	0.12867	0.2016 mg/L	0.12867	63.82%
Ni 231.604†	6.5	0.00161	mg/L	0.001720	0.00161 mg/L	0.001720	106.56%
Pb 220.353†	11.9	0.00168	mg/L	0.002157	0.00168 mg/L	0.002157	128.38%
Sb 206.836†	6.3	0.00191	mg/L	0.001368	0.00191 mg/L	0.001368	71.51%
Se 196.026†	1.5	0.00123	mg/L	0.007425	0.00123 mg/L	0.007425	604.55%
Si 288.158†	-0.6	-0.00020	mg/L	0.002512	-0.00020 mg/L	0.002512	>999.9%
Sn 189.927†	6.0	0.00170	mg/L	0.001912	0.00170 mg/L	0.001912	112.78%
Sr 421.552†	99.6	0.00011	mg/L	0.000052	0.00011 mg/L	0.000052	47.90%
Ti 334.903†	-2.6	-0.00011	mg/L	0.000684	-0.00011 mg/L	0.000684	650.11%
Tl 190.801†	9.6	0.00387	mg/L	0.002828	0.00387 mg/L	0.002828	73.16%
V 292.402†	119.2	0.00114	mg/L	0.001290	0.00114 mg/L	0.001290	112.73%
Zn 206.200†	2.2	0.00067	mg/L	0.000546	0.00067 mg/L	0.000546	81.57%

Sequence No.: 8

Autosampler Location: 304

Sample ID: OX06 MB1 DMN

Date Collected: 5/6/2009 9:44:47 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 MB1 DMN

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: OX06 MB1 DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2611545.4	103.4	%	0.77			0.74%
ScR 361.383	429134.9	105.7	%	1.76			1.66%
Ag 328.068†	-6.6	-0.00003	mg/L	0.000075	-0.00003 mg/L	0.000075	228.80%
Al 308.215†	23.3	0.00905	mg/L	0.004459	0.00905 mg/L	0.004459	49.28%
As 188.979†	3.3	0.00238	mg/L	0.003165	0.00238 mg/L	0.003165	132.76%
B 249.677†	35.0	0.00271	mg/L	0.000826	0.00271 mg/L	0.000826	30.45%
Ba 233.527†	-5.0	-0.00068	mg/L	0.000446	-0.00068 mg/L	0.000446	65.59%
Be 313.042†	-191.8	-0.00024	mg/L	0.000096	-0.00024 mg/L	0.000096	40.40%
Ca 317.933†	17.1	0.00113	mg/L	0.001406	0.00113 mg/L	0.001406	125.02%
Cd 228.802†	4.9	0.00017	mg/L	0.000130	0.00017 mg/L	0.000130	77.95%
Co 228.616†	11.4	0.00030	mg/L	0.000055	0.00030 mg/L	0.000055	18.18%
Cr 267.716†	15.0	0.00181	mg/L	0.000318	0.00181 mg/L	0.000318	17.56%
Cu 324.752†	-151.3	-0.00045	mg/L	0.000203	-0.00045 mg/L	0.000203	44.99%
Fe 273.955†	-24.0	-0.01299	mg/L	0.001139	-0.01299 mg/L	0.001139	8.77%
K 766.490†	10.7	0.00532	mg/L	0.007691	0.00532 mg/L	0.007691	144.47%
Mg 279.077†	-4.2	-0.00263	mg/L	0.007055	-0.00263 mg/L	0.007055	268.13%
Mn 257.610†	-41.2	-0.00055	mg/L	0.000230	-0.00055 mg/L	0.000230	41.67%
Mo 202.031†	-1.6	-0.00008	mg/L	0.000146	-0.00008 mg/L	0.000146	173.17%
Na 589.592†	810.6	0.05012	mg/L	0.004175	0.05012 mg/L	0.004175	8.33%
Na 330.237†	23.1	0.4909	mg/L	0.24558	0.4909 mg/L	0.24558	50.03%
Ni 231.604†	11.0	0.00271	mg/L	0.000415	0.00271 mg/L	0.000415	15.30%
Pb 220.353†	1.1	0.00016	mg/L	0.000406	0.00016 mg/L	0.000406	255.03%
Sb 206.836†	-10.3	-0.00314	mg/L	0.000687	-0.00314 mg/L	0.000687	21.89%
Se 196.026†	1.3	0.00105	mg/L	0.001394	0.00105 mg/L	0.001394	133.26%
Si 288.158†	8.8	0.00291	mg/L	0.003107	0.00291 mg/L	0.003107	106.64%
Sn 189.927†	-1.5	-0.00044	mg/L	0.000265	-0.00044 mg/L	0.000265	60.04%
Sr 421.552†	59.3	0.00006	mg/L	0.000019	0.00006 mg/L	0.000019	29.57%
Ti 334.903†	39.1	0.00157	mg/L	0.000624	0.00157 mg/L	0.000624	39.72%
Tl 190.801†	6.2	0.00251	mg/L	0.000658	0.00251 mg/L	0.000658	26.22%
V 292.402†	4.6	0.00005	mg/L	0.000078	0.00005 mg/L	0.000078	152.77%
Zn 206.200†	4.3	0.00132	mg/L	0.000686	0.00132 mg/L	0.000686	52.00%

Sequence No.: 9

Autosampler Location: 305

Sample ID: OX06 B DMN

Date Collected: 5/6/2009 9:48:17 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 B DMN

Analyte	Back Pressure	Flow
All	223.0 kPa	0.75 L/min

Mean Data: OX06 B DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
ScA 357.253	2581734.9	102.2	%	1.34			1.31%
ScR 361.383	422273.2	104.0	%	0.64			0.62%
Ag 328.068†	-34.3	-0.00017	mg/L	0.000187	-0.00017 mg/L	0.000187	109.26%
Al 308.215†	39.7	0.01535	mg/L	0.004089	0.01535 mg/L	0.004089	26.64%
As 188.979†	50.6	0.02192	mg/L	0.004948	0.02192 mg/L	0.004948	22.58%
B 249.677†	335.1	0.02596	mg/L	0.000190	0.02596 mg/L	0.000190	0.73%
Ba 233.527†	384.4	0.05246	mg/L	0.000058	0.05246 mg/L	0.000058	0.11%
Be 313.042†	-67.8	-0.00009	mg/L	0.000034	-0.00009 mg/L	0.000034	39.98%
Ca 317.933†	456991.3	30.01	mg/L	0.130	30.01 mg/L	0.130	0.43%
Cd 228.802†	-4.9	-0.00051	mg/L	0.000125	-0.00051 mg/L	0.000125	24.58%
Co 228.616†	17.2	0.00045	mg/L	0.000037	0.00045 mg/L	0.000037	8.20%
Cr 267.716†	35.6	0.00221	mg/L	0.000794	0.00221 mg/L	0.000794	35.88%
Cu 324.752†	11.9	-0.00003	mg/L	0.000196	-0.00003 mg/L	0.000196	607.55%
Fe 273.955†	2521.5	1.362	mg/L	0.0082	1.362 mg/L	0.0082	0.60%
K 766.490†	11996.9	5.984	mg/L	0.0661	5.984 mg/L	0.0661	1.10%
Mg 279.077†	47136.9	29.38	mg/L	0.254	29.38 mg/L	0.254	0.87%
Mn 257.610†	21247.7	0.2840	mg/L	0.00232	0.2840 mg/L	0.00232	0.82%
Mo 202.031†	87.2	0.00431	mg/L	0.000267	0.00431 mg/L	0.000267	6.18%
Na 589.592†	356781.1	22.06	mg/L	0.119	22.06 mg/L	0.119	0.54%
Na 330.237†	1102.6	23.19	mg/L	0.375	23.19 mg/L	0.375	1.62%
Ni 231.604†	13.5	0.00334	mg/L	0.001729	0.00334 mg/L	0.001729	51.83%
Pb 220.353†	-23.8	-0.00283	mg/L	0.000810	-0.00283 mg/L	0.000810	28.66%
Sb 206.836†	-2.4	-0.00081	mg/L	0.000519	-0.00081 mg/L	0.000519	63.94%
Se 196.026†	13.5	0.01128	mg/L	0.003198	0.01128 mg/L	0.003198	28.35%
Si 288.158†	45580.5	15.12	mg/L	0.131	15.12 mg/L	0.131	0.87%
Sn 189.927†	-18.8	-0.00431	mg/L	0.000672	-0.00431 mg/L	0.000672	15.58%
Sr 421.552†	171281.6	0.1862	mg/L	0.00099	0.1862 mg/L	0.00099	0.53%
Ti 334.903†	129.5	0.00207	mg/L	0.000487	0.00207 mg/L	0.000487	23.52%
Tl 190.801†	21.1	0.00742	mg/L	0.001736	0.00742 mg/L	0.001736	23.38%
V 292.402†	22.2	0.00024	mg/L	0.000101	0.00024 mg/L	0.000101	42.66%
Zn 206.200†	3.4	0.00018	mg/L	0.000899	0.00018 mg/L	0.000899	500.96%

Sequence No.: 10

Autosampler Location: 306

Sample ID: OX06 C DMN

Date Collected: 5/6/2009 9:52:01 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 C DMN

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: OX06 C DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2584829.3	102.4 %	%	1.54			1.50%
ScR 361.383	424547.9	104.6 %	%	1.33			1.27%
Ag 328.068†	-27.8	-0.00014 mg/L	mg/L	0.000101	-0.00014 mg/L	0.000101	73.25%
Al 308.215†	1.8	0.00062 mg/L	mg/L	0.008499	0.00062 mg/L	0.008499	>999.9%
As 188.979†	40.2	0.01910 mg/L	mg/L	0.002633	0.01910 mg/L	0.002633	13.78%
B 249.677†	170.4	0.01320 mg/L	mg/L	0.000511	0.01320 mg/L	0.000511	3.87%
Ba 233.527†	60.6	0.00828 mg/L	mg/L	0.000200	0.00828 mg/L	0.000200	2.41%
Be 313.042†	-134.9	-0.00017 mg/L	mg/L	0.000030	-0.00017 mg/L	0.000030	17.35%
Ca 317.933†	312148.9	20.50 mg/L	mg/L	0.095	20.50 mg/L	0.095	0.47%
Cd 228.802†	-7.1	-0.00052 mg/L	mg/L	0.000187	-0.00052 mg/L	0.000187	35.97%
Co 228.616†	49.4	0.00133 mg/L	mg/L	0.000043	0.00133 mg/L	0.000043	3.23%
Cr 267.716†	29.4	0.00208 mg/L	mg/L	0.000089	0.00208 mg/L	0.000089	4.29%
Cu 324.752†	176.6	0.00043 mg/L	mg/L	0.000202	0.00043 mg/L	0.000202	47.40%
Fe 273.955†	52.4	0.02829 mg/L	mg/L	0.000384	0.02829 mg/L	0.000384	1.36%
K 766.490†	10295.0	5.135 mg/L	mg/L	0.0254	5.135 mg/L	0.0254	0.49%
Mg 279.077†	30760.4	19.17 mg/L	mg/L	0.038	19.17 mg/L	0.038	0.20%
Mn 257.610†	29202.3	0.3906 mg/L	mg/L	0.00240	0.3906 mg/L	0.00240	0.61%
Mo 202.031†	71.3	0.00357 mg/L	mg/L	0.000319	0.00357 mg/L	0.000319	8.94%
Na 589.592†	251381.0	15.54 mg/L	mg/L	0.030	15.54 mg/L	0.030	0.19%
Na 330.237†	774.3	16.29 mg/L	mg/L	0.764	16.29 mg/L	0.764	4.69%
Ni 231.604†	32.1	0.00794 mg/L	mg/L	0.001502	0.00794 mg/L	0.001502	18.93%
Pb 220.353†	-18.8	-0.00224 mg/L	mg/L	0.000733	-0.00224 mg/L	0.000733	32.76%
Sb 206.836†	-3.6	-0.00117 mg/L	mg/L	0.002469	-0.00117 mg/L	0.002469	211.67%
Se 196.026†	15.7	0.01298 mg/L	mg/L	0.001573	0.01298 mg/L	0.001573	12.13%
Si 288.158†	39451.0	13.08 mg/L	mg/L	0.034	13.08 mg/L	0.034	0.26%
Sn 189.927†	-16.8	-0.00406 mg/L	mg/L	0.000666	-0.00406 mg/L	0.000666	16.41%
Sr 421.552†	141811.9	0.1542 mg/L	mg/L	0.00071	0.1542 mg/L	0.00071	0.46%
Ti 334.903†	101.3	0.00193 mg/L	mg/L	0.000854	0.00193 mg/L	0.000854	44.31%
Tl 190.801†	19.0	0.00678 mg/L	mg/L	0.000408	0.00678 mg/L	0.000408	6.02%
V 292.402†	143.9	0.00146 mg/L	mg/L	0.000005	0.00146 mg/L	0.000005	0.32%
Zn 206.200†	5.5	0.00110 mg/L	mg/L	0.001083	0.00110 mg/L	0.001083	98.90%

Sequence No.: 11
 Sample ID: *OC06 D DMN*
 Dilution: 1X *56-09*

Autosampler Location: 307
 Date Collected: 5/6/2009 9:55:30 AM
 Data Type: Original

Nebulizer Parameters: *OC06 D DMN*
 Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: *OC06 D DMN*

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2587106.1	102.4	%	0.40			0.39%
ScR 361.383	416483.8	102.6	%	0.80			0.78%
Ag 328.068†	-74.7	-0.00037	mg/L	0.000099	-0.00037	0.000099	26.50%
Al 308.215†	33.0	0.01253	mg/L	0.006033	0.01253	0.006033	48.14%
As 188.979†	66.9	0.02238	mg/L	0.001373	0.02238	0.001373	6.13%
B 249.677†	2390.5	0.1852	mg/L	0.00149	0.1852	0.00149	0.81%
Ba 233.527†	1320.2	0.1805	mg/L	0.00129	0.1805	0.00129	0.72%
Be 313.042†	-30.6	-0.00004	mg/L	0.000077	-0.00004	0.000077	200.20%
Ca 317.933†	836581.2	54.93	mg/L	0.586	54.93	0.586	1.07%
Cd 228.802†	-17.6	-0.00109	mg/L	0.000104	-0.00109	0.000104	9.49%
Co 228.616†	28.4	0.00074	mg/L	0.000167	0.00074	0.000167	22.37%
Cr 267.716†	42.4	0.00315	mg/L	0.001428	0.00315	0.001428	45.31%
Cu 324.752†	72.6	0.00009	mg/L	0.000072	0.00009	0.000072	84.45%
Fe 273.955†	10.5	0.00567	mg/L	0.001742	0.00567	0.001742	30.71%
K 766.490†	18257.2	9.106	mg/L	0.0605	9.106	0.0605	0.66%
Mg 279.077†	37993.5	23.68	mg/L	0.239	23.68	0.239	1.01%
Mn 257.610†	16869.7	0.2254	mg/L	0.00174	0.2254	0.00174	0.77%
Mo 202.031†	383.0	0.01978	mg/L	0.000181	0.01978	0.000181	0.91%
Na 589.592†	492894.6	30.48	mg/L	0.273	30.48	0.273	0.90%
Na 330.237†	1505.8	31.55	mg/L	0.487	31.55	0.487	1.54%
Ni 231.604†	9.1	0.00221	mg/L	0.002075	0.00221	0.002075	93.91%
Pb 220.353†	-23.6	-0.00221	mg/L	0.000834	-0.00221	0.000834	37.74%
Sb 206.836†	-5.9	-0.00190	mg/L	0.001266	-0.00190	0.001266	66.73%
Se 196.026†	17.8	0.01468	mg/L	0.005611	0.01468	0.005611	38.22%
Si 288.158†	18962.9	6.289	mg/L	0.0655	6.289	0.0655	1.04%
Sn 189.927†	-23.5	-0.00478	mg/L	0.000552	-0.00478	0.000552	11.53%
Sr 421.552†	290044.6	0.3154	mg/L	0.00260	0.3154	0.00260	0.82%
Ti 334.903†	252.4	0.00438	mg/L	0.000720	0.00438	0.000720	16.44%
Tl 190.801†	30.4	0.00995	mg/L	0.002378	0.00995	0.002378	23.91%
V 292.402†	16.0	0.00021	mg/L	0.000086	0.00021	0.000086	40.41%
Zn 206.200†	8.3	0.00097	mg/L	0.000480	0.00097	0.000480	49.59%

Sequence No.: 12
 Sample ID: OX06 E DMN

Autosampler Location: 308
 Date Collected: 5/6/2009 9:59:14 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 E DMN

Analyte Back Pressure Flow
 All 225.0 kPa 0.75 L/min

Mean Data: OX06 E DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
SCA 357.253	2543693.1	100.7	%	1.15			1.14%
ScR 361.383	415284.2	102.3	%	1.08			1.06%
Ag 328.068†	-76.8	-0.00038	mg/L	0.000052	-0.00038 mg/L	0.000052	13.57%
Al 308.215†	24.3	0.00935	mg/L	0.002726	0.00935 mg/L	0.002726	29.14%
As 188.979†	75.0	0.02465	mg/L	0.000793	0.02465 mg/L	0.000793	3.22%
B 249.677†	3277.3	0.2539	mg/L	0.00179	0.2539 mg/L	0.00179	0.71%
Ba 233.527†	650.2	0.08891	mg/L	0.001028	0.08891 mg/L	0.001028	1.16%
Be 313.042†	18.9	0.00002	mg/L	0.000053	0.00002 mg/L	0.000053	239.83%
Ca 317.933†	945769.1	62.10	mg/L	0.866	62.10 mg/L	0.866	1.39%
Cd 228.802†	-16.8	-0.00112	mg/L	0.000181	-0.00112 mg/L	0.000181	16.15%
Co 228.616†	26.8	0.00070	mg/L	0.000105	0.00070 mg/L	0.000105	14.98%
Cr 267.716†	43.3	0.00238	mg/L	0.000567	0.00238 mg/L	0.000567	23.87%
Cu 324.752†	110.6	0.00014	mg/L	0.000205	0.00014 mg/L	0.000205	143.35%
Fe 273.955†	124.3	0.06715	mg/L	0.001170	0.06715 mg/L	0.001170	1.74%
K 766.490†	30097.3	15.01	mg/L	0.197	15.01 mg/L	0.197	1.31%
Mg 279.077†	57957.9	36.12	mg/L	0.347	36.12 mg/L	0.347	0.96%
Mn 257.610†	24863.4	0.3323	mg/L	0.00351	0.3323 mg/L	0.00351	1.06%
Mo 202.031†	97.6	0.00452	mg/L	0.000318	0.00452 mg/L	0.000318	7.03%
Na 589.592†	1512606.9	93.53	mg/L	1.176	93.53 mg/L	1.176	1.26%
Na 330.237†	4565.0	96.56	mg/L	1.022	96.56 mg/L	1.022	1.06%
Ni 231.604†	7.1	0.00173	mg/L	0.001858	0.00173 mg/L	0.001858	107.21%
Pb 220.353†	-34.3	-0.00358	mg/L	0.000622	-0.00358 mg/L	0.000622	17.40%
Sb 206.836†	-1.2	-0.00049	mg/L	0.001550	-0.00049 mg/L	0.001550	317.11%
Se 196.026†	20.5	0.01694	mg/L	0.001479	0.01694 mg/L	0.001479	8.73%
Si 288.158†	25189.6	8.353	mg/L	0.0828	8.353 mg/L	0.0828	0.99%
Sn 189.927†	-21.0	-0.00385	mg/L	0.000286	-0.00385 mg/L	0.000286	7.42%
Sr 421.552†	351928.3	0.3827	mg/L	0.00445	0.3827 mg/L	0.00445	1.16%
Ti 334.903†	247.4	0.00347	mg/L	0.001474	0.00347 mg/L	0.001474	42.54%
Tl 190.801†	31.7	0.01012	mg/L	0.002658	0.01012 mg/L	0.002658	26.25%
V 292.402†	37.8	0.00043	mg/L	0.000046	0.00043 mg/L	0.000046	10.70%
Zn 206.200†	4.4	-0.00042	mg/L	0.001087	-0.00042 mg/L	0.001087	260.89%

Sequence No.: 13

Autosampler Location: 309

Sample ID: OX06 F DMN

Date Collected: 5/6/2009 10:02:59 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 F DMN

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: OX06 F DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2561520.3	101.4	%	0.92			0.91%
ScR 361.383	414795.4	102.2	%	1.24			1.21%
Ag 328.068†	-56.6	-0.00028	mg/L	0.000127	-0.00028 mg/L	0.000127	45.08%
Al 308.215†	13.1	0.00501	mg/L	0.004801	0.00501 mg/L	0.004801	95.89%
As 188.979†	79.1	0.02399	mg/L	0.004057	0.02399 mg/L	0.004057	16.91%
B 249.677†	3333.8	0.2583	mg/L	0.00261	0.2583 mg/L	0.00261	1.01%
Ba 233.527†	529.6	0.07212	mg/L	0.000726	0.07212 mg/L	0.000726	1.01%
Be 313.042†	-14.8	-0.00002	mg/L	0.000103	-0.00002 mg/L	0.000103	507.68%
Ca 317.933†	1065858.5	69.99	mg/L	0.280	69.99 mg/L	0.280	0.40%
Cd 228.802†	-20.5	-0.00128	mg/L	0.000245	-0.00128 mg/L	0.000245	19.07%
Co 228.616†	46.5	0.00123	mg/L	0.000112	0.00123 mg/L	0.000112	9.08%
Cr 267.716†	44.3	0.00266	mg/L	0.000953	0.00266 mg/L	0.000953	35.78%
Cu 324.752†	56.8	0.00023	mg/L	0.000161	0.00023 mg/L	0.000161	70.76%
Fe 273.955†	7300.5	3.944	mg/L	0.0600	3.944 mg/L	0.0600	1.52%
K 766.490†	31537.8	15.73	mg/L	0.121	15.73 mg/L	0.121	0.77%
Mg 279.077†	58614.9	36.53	mg/L	0.485	36.53 mg/L	0.485	1.33%
Mn 257.610†	40785.5	0.5453	mg/L	0.00655	0.5453 mg/L	0.00655	1.20%
Mo 202.031†	93.2	0.00421	mg/L	0.000038	0.00421 mg/L	0.000038	0.90%
Na 589.592†	890092.6	55.04	mg/L	0.290	55.04 mg/L	0.290	0.53%
Na 330.237†	2688.4	56.57	mg/L	0.295	56.57 mg/L	0.295	0.52%
Ni 231.604†	11.5	0.00282	mg/L	0.001488	0.00282 mg/L	0.001488	52.75%
Pb 220.353†	-35.4	-0.00385	mg/L	0.000430	-0.00385 mg/L	0.000430	11.17%
Sb 206.836†	0.3	-0.00002	mg/L	0.001612	-0.00002 mg/L	0.001612	>999.9%
Se 196.026†	19.4	0.01645	mg/L	0.003297	0.01645 mg/L	0.003297	20.04%
Si 288.158†	32459.3	10.76	mg/L	0.132	10.76 mg/L	0.132	1.22%
Sn 189.927†	-21.8	-0.00380	mg/L	0.000958	-0.00380 mg/L	0.000958	25.19%
Sr 421.552†	374832.9	0.4076	mg/L	0.00384	0.4076 mg/L	0.00384	0.94%
Ti 334.903†	285.8	0.00419	mg/L	0.001646	0.00419 mg/L	0.001646	39.29%
Tl 190.801†	32.7	0.01067	mg/L	0.000707	0.01067 mg/L	0.000707	6.62%
V 292.402†	56.5	0.00054	mg/L	0.000062	0.00054 mg/L	0.000062	11.53%
Zn 206.200†	6.9	0.00011	mg/L	0.000535	0.00011 mg/L	0.000535	477.68%

Sequence No.: 14
 Sample ID: OX06 ADUP DMN

Autosampler Location: 310
 Date Collected: 5/6/2009 10:06:43 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 ADUP DMN

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: OX06 ADUP DMN

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2549469.9	101.0 %	0.92			0.91%
ScR 361.383	414599.5	102.1 %	1.07			1.05%
Ag 328.068†	-13.3	-0.00007 mg/L	0.000107	-0.00007 mg/L	0.000107	161.15%
Al 308.215†	7.5	0.00284 mg/L	0.005225	0.00284 mg/L	0.005225	183.72%
As 188.979†	47.9	0.01988 mg/L	0.003009	0.01988 mg/L	0.003009	15.13%
B 249.677†	377.9	0.02928 mg/L	0.001609	0.02928 mg/L	0.001609	5.50%
Ba 233.527†	370.4	0.05062 mg/L	0.001653	0.05062 mg/L	0.001653	3.26%
Be 313.042†	-22.1	-0.00003 mg/L	0.000045	-0.00003 mg/L	0.000045	160.98%
Ca 317.933†	459910.6	30.20 mg/L	0.532	30.20 mg/L	0.532	1.76%
Cd 228.802†	-6.4	-0.00055 mg/L	0.000191	-0.00055 mg/L	0.000191	34.83%
Co 228.616†	17.2	0.00045 mg/L	0.000109	0.00045 mg/L	0.000109	24.11%
Cr 267.716†	32.9	0.00180 mg/L	0.001187	0.00180 mg/L	0.001187	65.94%
Cu 324.752†	97.8	0.00016 mg/L	0.000118	0.00016 mg/L	0.000118	73.93%
Fe 273.955†	691.8	0.3737 mg/L	0.00290	0.3737 mg/L	0.00290	0.78%
K 766.490†	12032.8	6.002 mg/L	0.0324	6.002 mg/L	0.0324	0.54%
Mg 279.077†	47447.1	29.58 mg/L	0.351	29.58 mg/L	0.351	1.19%
Mn 257.610†	20832.2	0.2785 mg/L	0.00296	0.2785 mg/L	0.00296	1.06%
Mo 202.031†	78.7	0.00386 mg/L	0.000285	0.00386 mg/L	0.000285	7.38%
Na 589.592†	365964.0	22.63 mg/L	0.416	22.63 mg/L	0.416	1.84%
Na 330.237†	1118.0	23.52 mg/L	0.453	23.52 mg/L	0.453	1.93%
Ni 231.604†	14.7	0.00364 mg/L	0.000983	0.00364 mg/L	0.000983	26.99%
Pb 220.353†	-26.4	-0.00313 mg/L	0.000809	-0.00313 mg/L	0.000809	25.82%
Sb 206.836†	1.2	0.00026 mg/L	0.000405	0.00026 mg/L	0.000405	156.12%
Se 196.026†	15.5	0.01283 mg/L	0.001492	0.01283 mg/L	0.001492	11.63%
Si 288.158†	45856.3	15.21 mg/L	0.150	15.21 mg/L	0.150	0.99%
Sn 189.927†	-19.9	-0.00461 mg/L	0.001633	-0.00461 mg/L	0.001633	35.40%
Sr 421.552†	173265.8	0.1884 mg/L	0.00354	0.1884 mg/L	0.00354	1.88%
Ti 334.903†	126.8	0.00194 mg/L	0.002171	0.00194 mg/L	0.002171	111.65%
Tl 190.801†	20.6	0.00704 mg/L	0.000017	0.00704 mg/L	0.000017	0.24%
V 292.402†	15.3	0.00020 mg/L	0.000017	0.00020 mg/L	0.000017	8.88%
Zn 206.200†	0.3	-0.00076 mg/L	0.000350	-0.00076 mg/L	0.000350	45.85%

Sequence No.: 15
 Sample ID: OX06 A DMN

Autosampler Location: 311
 Date Collected: 5/6/2009 10:10:27 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 A DMN

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: OX06 A DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2553693.0	101.1 %	%	0.41			0.41%
ScR 361.383	419785.4	103.4 %	%	0.84			0.81%
Ag 328.068†	-17.9	-0.00009 mg/L	mg/L	0.000102	-0.00009 mg/L	0.000102	114.60%
Al 308.215†	24.6	0.00950 mg/L	mg/L	0.005200	0.00950 mg/L	0.005200	54.74%
As 188.979†	45.4	0.01817 mg/L	mg/L	0.001420	0.01817 mg/L	0.001420	7.82%
B 249.677†	362.1	0.02805 mg/L	mg/L	0.001457	0.02805 mg/L	0.001457	5.19%
Ba 233.527†	365.2	0.04992 mg/L	mg/L	0.001013	0.04992 mg/L	0.001013	2.03%
Be 313.042†	-33.0	-0.00004 mg/L	mg/L	0.000032	-0.00004 mg/L	0.000032	77.52%
Ca 317.933†	456568.7	29.98 mg/L	mg/L	0.209	29.98 mg/L	0.209	0.70%
Cd 228.802†	-5.0	-0.00048 mg/L	mg/L	0.000104	-0.00048 mg/L	0.000104	21.66%
Co 228.616†	11.9	0.00031 mg/L	mg/L	0.000074	0.00031 mg/L	0.000074	23.69%
Cr 267.716†	30.2	0.00150 mg/L	mg/L	0.000835	0.00150 mg/L	0.000835	55.54%
Cu 324.752†	90.1	0.00014 mg/L	mg/L	0.000035	0.00014 mg/L	0.000035	25.44%
Fe 273.955†	677.8	0.3662 mg/L	mg/L	0.00245	0.3662 mg/L	0.00245	0.67%
K 766.490†	11903.9	5.937 mg/L	mg/L	0.0450	5.937 mg/L	0.0450	0.76%
Mg 279.077†	46918.5	29.25 mg/L	mg/L	0.198	29.25 mg/L	0.198	0.68%
Mn 257.610†	20656.4	0.2761 mg/L	mg/L	0.00213	0.2761 mg/L	0.00213	0.77%
Mo 202.031†	80.1	0.00394 mg/L	mg/L	0.000164	0.00394 mg/L	0.000164	4.18%
Na 589.592†	361071.0	22.33 mg/L	mg/L	0.122	22.33 mg/L	0.122	0.55%
Na 330.237†	1083.6	22.79 mg/L	mg/L	0.173	22.79 mg/L	0.173	0.76%
Ni 231.604†	9.5	0.00234 mg/L	mg/L	0.000788	0.00234 mg/L	0.000788	33.68%
Pb 220.353†	-23.7	-0.00275 mg/L	mg/L	0.001331	-0.00275 mg/L	0.001331	48.35%
Sb 206.836†	-0.6	-0.00027 mg/L	mg/L	0.000441	-0.00027 mg/L	0.000441	163.05%
Se 196.026†	12.3	0.01021 mg/L	mg/L	0.003255	0.01021 mg/L	0.003255	31.89%
Si 288.158†	45297.3	15.02 mg/L	mg/L	0.117	15.02 mg/L	0.117	0.78%
Sn 189.927†	-21.0	-0.00493 mg/L	mg/L	0.000729	-0.00493 mg/L	0.000729	14.80%
Sr 421.552†	171063.3	0.1860 mg/L	mg/L	0.00076	0.1860 mg/L	0.00076	0.41%
Ti 334.903†	129.7	0.00208 mg/L	mg/L	0.000963	0.00208 mg/L	0.000963	46.28%
Tl 190.801†	23.7	0.00834 mg/L	mg/L	0.000549	0.00834 mg/L	0.000549	6.58%
V 292.402†	18.2	0.00022 mg/L	mg/L	0.000053	0.00022 mg/L	0.000053	23.89%
Zn 206.200†	1.9	-0.00027 mg/L	mg/L	0.000242	-0.00027 mg/L	0.000242	88.16%

Sequence No.: 16
Sample ID: OX06 ASPK DMN

Autosampler Location: 312
Date Collected: 5/6/2009 10:14:11 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 ASPK DMN

Analyte Back Pressure Flow
All 224.0 kPa 0.75 L/min

Mean Data: OX06 ASPK DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2567474.5	101.7	%	0.63			0.62%
ScR 361.383	409781.8	100.9	%	1.63			1.62%
Ag 328.068†	92524.5	0.4619	mg/L	0.00670	0.4619 mg/L	0.00670	1.45%
Al 308.215†	5316.9	2.048	mg/L	0.0304	2.048 mg/L	0.0304	1.48%
As 188.979†	2939.8	2.099	mg/L	0.0166	2.099 mg/L	0.0166	0.79%
B 249.677†	355.1	0.02717	mg/L	0.001279	0.02717 mg/L	0.001279	4.71%
Ba 233.527†	14771.4	2.020	mg/L	0.0224	2.020 mg/L	0.0224	1.11%
Be 313.042†	385398.3	0.4781	mg/L	0.00306	0.4781 mg/L	0.00306	0.64%
Ca 317.933†	596968.1	39.20	mg/L	0.260	39.20 mg/L	0.260	0.66%
Cd 228.802†	13722.6	0.5002	mg/L	0.00452	0.5002 mg/L	0.00452	0.90%
Co 228.616†	17680.6	0.4745	mg/L	0.00593	0.4745 mg/L	0.00593	1.25%
Cr 267.716†	4146.3	0.4959	mg/L	0.00489	0.4959 mg/L	0.00489	0.99%
Cu 324.752†	163551.8	0.4862	mg/L	0.00640	0.4862 mg/L	0.00640	1.32%
Fe 273.955†	4318.9	2.327	mg/L	0.0195	2.327 mg/L	0.0195	0.84%
K 766.490†	31388.7	15.66	mg/L	0.104	15.66 mg/L	0.104	0.67%
Mg 279.077†	60978.7	38.01	mg/L	0.228	38.01 mg/L	0.228	0.60%
Mn 257.610†	55739.3	0.7459	mg/L	0.00536	0.7459 mg/L	0.00536	0.72%
Mo 202.031†	10086.2	0.5360	mg/L	0.00271	0.5360 mg/L	0.00271	0.50%
Na 589.592†	512763.2	31.71	mg/L	0.188	31.71 mg/L	0.188	0.59%
Na 330.237†	1561.7	33.15	mg/L	0.161	33.15 mg/L	0.161	0.49%
Ni 231.604†	1884.4	0.4678	mg/L	0.00478	0.4678 mg/L	0.00478	1.02%
Pb 220.353†	13813.3	1.945	mg/L	0.0204	1.945 mg/L	0.0204	1.05%
Sb 206.836†	6954.1	2.092	mg/L	0.0106	2.092 mg/L	0.0106	0.50%
Se 196.026†	2707.8	2.237	mg/L	0.0168	2.237 mg/L	0.0168	0.75%
Si 288.158†	44582.5	14.78	mg/L	0.084	14.78 mg/L	0.084	0.57%
Sn 189.927†	-30.6	-0.00412	mg/L	0.000570	-0.00412 mg/L	0.000570	13.84%
Sr 421.552†	603065.4	0.6557	mg/L	0.00293	0.6557 mg/L	0.00293	0.45%
Ti 334.903†	53527.0	2.146	mg/L	0.0231	2.146 mg/L	0.0231	1.08%
Tl 190.801†	4885.4	1.970	mg/L	0.0076	1.970 mg/L	0.0076	0.39%
V 292.402†	50552.1	0.4874	mg/L	0.00578	0.4874 mg/L	0.00578	1.19%
Zn 206.200†	1554.7	0.4720	mg/L	0.00698	0.4720 mg/L	0.00698	1.48%

Sequence No.: 17

Autosampler Location: 313

Sample ID: OX06 MB1SPK DMN

Date Collected: 5/6/2009 10:17:43 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 MB1SPK DMN

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: OX06 MB1SPK DMN

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2574519.6		101.9 %	0.67			0.66%
ScR 361.383	424214.2		104.5 %	0.84			0.80%
Ag 328.068†	101990.9		0.5091 mg/L	0.00430	0.5091 mg/L	0.00430	0.84%
Al 308.215†	5156.0		1.986 mg/L	0.0121	1.986 mg/L	0.0121	0.61%
As 188.979†	2901.1		2.085 mg/L	0.0193	2.085 mg/L	0.0193	0.92%
B 249.677†	22.0	0.00134	mg/L	0.000356	0.00134 mg/L	0.000356	26.65%
Ba 233.527†	14139.7		1.933 mg/L	0.0109	1.933 mg/L	0.0109	0.56%
Be 313.042†	387186.0		0.4803 mg/L	0.00211	0.4803 mg/L	0.00211	0.44%
Ca 317.933†	146464.2		9.617 mg/L	0.0564	9.617 mg/L	0.0564	0.59%
Cd 228.802†	14001.9		0.5111 mg/L	0.00398	0.5111 mg/L	0.00398	0.78%
Co 228.616†	18363.9		0.4931 mg/L	0.00428	0.4931 mg/L	0.00428	0.87%
Cr 267.716†	4061.1		0.4877 mg/L	0.00132	0.4877 mg/L	0.00132	0.27%
Cu 324.752†	163757.3		0.4869 mg/L	0.00303	0.4869 mg/L	0.00303	0.62%
Fe 273.955†	3536.5		1.905 mg/L	0.0093	1.905 mg/L	0.0093	0.49%
K 766.490†	19220.9		9.587 mg/L	0.0099	9.587 mg/L	0.0099	0.10%
Mg 279.077†	16005.2		9.979 mg/L	0.0440	9.979 mg/L	0.0440	0.44%
Mn 257.610†	35024.9		0.4690 mg/L	0.00108	0.4690 mg/L	0.00108	0.23%
Mo 202.031†	10221.3		0.5435 mg/L	0.00566	0.5435 mg/L	0.00566	1.04%
Na 589.592†	147396.5		9.114 mg/L	0.0155	9.114 mg/L	0.0155	0.17%
Na 330.237†	448.1		9.721 mg/L	0.1257	9.721 mg/L	0.1257	1.29%
Ni 231.604†	1876.6		0.4660 mg/L	0.00107	0.4660 mg/L	0.00107	0.23%
Pb 220.353†	14326.7		2.016 mg/L	0.0164	2.016 mg/L	0.0164	0.81%
Sb 206.836†	7143.1		2.149 mg/L	0.0223	2.149 mg/L	0.0223	1.04%
Se 196.026†	2707.6		2.237 mg/L	0.0226	2.237 mg/L	0.0226	1.01%
Si 288.158†	10.9	-0.00014	mg/L	0.002141	-0.00014 mg/L	0.002141	>999.9%
Sn 189.927†	-20.6	-0.00224	mg/L	0.000303	-0.00224 mg/L	0.000303	13.56%
Sr 421.552†	424414.4		0.4615 mg/L	0.00170	0.4615 mg/L	0.00170	0.37%
Ti 334.903†	53195.4		2.136 mg/L	0.0052	2.136 mg/L	0.0052	0.24%
Tl 190.801†	5001.0		2.018 mg/L	0.0163	2.018 mg/L	0.0163	0.81%
V 292.402†	51217.8		0.4938 mg/L	0.00200	0.4938 mg/L	0.00200	0.41%
Zn 206.200†	1543.6		0.4695 mg/L	0.00314	0.4695 mg/L	0.00314	0.67%

Sequence No.: 18

Autosampler Location: 7

Sample ID: CV 2

Date Collected: 5/6/2009 10:21:13 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
ScA 357.253	2535520.0	100.4	%	0.78				0.78%
ScR 361.383	396961.9	97.79	%	0.391				0.40%
Ag 328.068†	194885.8	0.9729	mg/L	0.00149	0.9729	mg/L	0.00149	0.15%
Al 308.215†	5385.9	2.062	mg/L	0.0133	2.062	mg/L	0.0133	0.65%
As 188.979†	2777.6	2.001	mg/L	0.0115	2.001	mg/L	0.0115	0.58%
B 249.677†	12617.7	0.9767	mg/L	0.00808	0.9767	mg/L	0.00808	0.83%
Ba 233.527†	7280.0	0.9949	mg/L	0.00728	0.9949	mg/L	0.00728	0.73%
Be 313.042†	807085.8	1.001	mg/L	0.0070	1.001	mg/L	0.0070	0.70%
Ca 317.933†	30127.7	1.978	mg/L	0.0178	1.978	mg/L	0.0178	0.90%
Cd 228.802†	26547.0	0.9866	mg/L	0.00890	0.9866	mg/L	0.00890	0.90%
Co 228.616†	37195.1	1.005	mg/L	0.0065	1.005	mg/L	0.0065	0.65%
Cr 267.716†	8471.2	1.019	mg/L	0.0084	1.019	mg/L	0.0084	0.82%
Cu 324.752†	333048.8	0.9911	mg/L	0.00525	0.9911	mg/L	0.00525	0.53%
Fe 273.955†	3694.5	1.984	mg/L	0.0138	1.984	mg/L	0.0138	0.69%
K 766.490†	39585.7	19.74	mg/L	0.042	19.74	mg/L	0.042	0.21%
Mg 279.077†	3280.1	2.049	mg/L	0.0197	2.049	mg/L	0.0197	0.96%
Mn 257.610†	72399.7	0.9693	mg/L	0.00476	0.9693	mg/L	0.00476	0.49%
Mo 202.031†	18679.7	0.9934	mg/L	0.00734	0.9934	mg/L	0.00734	0.74%
Na 589.592†	775503.4	47.95	mg/L	0.275	47.95	mg/L	0.275	0.57%
Na 330.037†	2332.4	49.42	mg/L	0.266	49.42	mg/L	0.266	0.54%
Ni 231.604†	3926.7	0.9733	mg/L	0.00863	0.9733	mg/L	0.00863	0.89%
Pb 220.353†	14350.1	2.020	mg/L	0.0110	2.020	mg/L	0.0110	0.55%
Sb 206.836†	6649.7	2.005	mg/L	0.0135	2.005	mg/L	0.0135	0.67%
Se 196.026†	2409.5	1.991	mg/L	0.0086	1.991	mg/L	0.0086	0.43%
Si 288.158†	6395.3	2.120	mg/L	0.0151	2.120	mg/L	0.0151	0.71%
Sn 189.927†	3485.4	0.9919	mg/L	0.00670	0.9919	mg/L	0.00670	0.68%
Sr 421.552†	939127.7	1.021	mg/L	0.0067	1.021	mg/L	0.0067	0.66%
Ti 334.903†	25290.8	1.014	mg/L	0.0122	1.014	mg/L	0.0122	1.20%
Tl 190.801†	4920.9	1.982	mg/L	0.0130	1.982	mg/L	0.0130	0.66%
V 292.402†	101134.0	0.9773	mg/L	0.00309	0.9773	mg/L	0.00309	0.32%
Zn 206.200†	3281.7	0.9985	mg/L	0.00762	0.9985	mg/L	0.00762	0.76%

Sequence No.: 19
 Sample ID: CB 2

Autosampler Location: 1
 Date Collected: 5/6/2009 10:24:32 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2516438.9	99.64 %	%	0.271			0.27%
ScR 361.383	408073.5	100.5 %	%	0.60			0.60%
Ag 328.068†	46.9	0.00023 mg/L	mg/L	0.000247	0.00023 mg/L	0.000247	105.24%
Al 308.215†	51.9	0.02013 mg/L	mg/L	0.013295	0.02013 mg/L	0.013295	66.06%
As 188.979†	3.7	0.00264 mg/L	mg/L	0.004840	0.00264 mg/L	0.004840	183.28%
B 249.677†	-22.0	-0.00170 mg/L	mg/L	0.000985	-0.00170 mg/L	0.000985	57.78%
Ba 233.527†	3.6	0.00050 mg/L	mg/L	0.000302	0.00050 mg/L	0.000302	60.73%
Be 313.042†	120.6	0.00015 mg/L	mg/L	0.000065	0.00015 mg/L	0.000065	43.93%
Ca 317.933†	-34.3	-0.00225 mg/L	mg/L	0.001547	-0.00225 mg/L	0.001547	68.66%
Cd 228.802†	25.9	0.00096 mg/L	mg/L	0.000804	0.00096 mg/L	0.000804	83.87%
Co 228.616†	27.4	0.00074 mg/L	mg/L	0.001025	0.00074 mg/L	0.001025	138.06%
Cr 267.716†	4.0	0.00047 mg/L	mg/L	0.001039	0.00047 mg/L	0.001039	219.07%
Cu 324.752†	216.8	0.00064 mg/L	mg/L	0.000336	0.00064 mg/L	0.000336	52.19%
Fe 273.955†	-28.5	-0.01542 mg/L	mg/L	0.001644	-0.01542 mg/L	0.001644	10.66%
K 766.490†	-45.0	-0.02245 mg/L	mg/L	0.019537	-0.02245 mg/L	0.019537	87.01%
Mg 279.077†	-4.0	-0.00250 mg/L	mg/L	0.005784	-0.00250 mg/L	0.005784	231.02%
Mn 257.610†	10.2	0.00014 mg/L	mg/L	0.000028	0.00014 mg/L	0.000028	20.53%
Mo 202.031†	16.1	0.00086 mg/L	mg/L	0.000988	0.00086 mg/L	0.000988	115.46%
Na 589.592†	1.2	0.00007 mg/L	mg/L	0.003858	0.00007 mg/L	0.003858	>999.9%
Na 330.237†	4.9	0.1050 mg/L	mg/L	0.20230	0.1050 mg/L	0.20230	192.63%
Ni 231.604†	6.0	0.00149 mg/L	mg/L	0.000622	0.00149 mg/L	0.000622	41.63%
Pb 220.353†	3.9	0.00056 mg/L	mg/L	0.000959	0.00056 mg/L	0.000959	172.08%
Sb 206.836†	8.7	0.00264 mg/L	mg/L	0.001283	0.00264 mg/L	0.001283	48.62%
Se 196.026†	-0.4	-0.00034 mg/L	mg/L	0.002914	-0.00034 mg/L	0.002914	869.71%
Si 288.158†	0.1	0.00002 mg/L	mg/L	0.000457	0.00002 mg/L	0.000457	>999.9%
Sn 189.927†	2.8	0.00079 mg/L	mg/L	0.001335	0.00079 mg/L	0.001335	168.06%
Sr 421.552†	221.3	0.00024 mg/L	mg/L	0.000113	0.00024 mg/L	0.000113	47.00%
Ti 334.903†	-2.9	-0.00012 mg/L	mg/L	0.000926	-0.00012 mg/L	0.000926	789.13%
Tl 190.801†	7.0	0.00282 mg/L	mg/L	0.002937	0.00282 mg/L	0.002937	104.01%
V 292.402†	94.4	0.00091 mg/L	mg/L	0.000979	0.00091 mg/L	0.000979	107.47%
Zn 206.200†	1.3	0.00038 mg/L	mg/L	0.000555	0.00038 mg/L	0.000555	145.70%

Sequence No.: 20
 Sample ID: OX06 G DMN

Autosampler Location: 314
 Date Collected: 5/6/2009 10:28:02 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 G DMN

Analyte Back Pressure Flow
 All 223.0 kPa 0.75 L/min

Mean Data: OX06 G DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2587400.5	102.5 %	%	0.47			0.46%
ScR 361.383	415931.4	102.5 %	%	0.73			0.71%
Ag 328.068†	-19.5	-0.00010 mg/L	mg/L	0.000108	-0.00010 mg/L	0.000108	110.62%
Al 308.215†	14.1	0.00522 mg/L	mg/L	0.004840	0.00522 mg/L	0.004840	92.71%
As 188.979†	72.6	0.02435 mg/L	mg/L	0.002312	0.02435 mg/L	0.002312	9.50%
B 249.677†	2854.5	0.2212 mg/L	mg/L	0.00161	0.2212 mg/L	0.00161	0.73%
Ba 233.527†	518.7	0.07093 mg/L	mg/L	0.000503	0.07093 mg/L	0.000503	0.71%
Be 313.042†	-71.4	-0.00009 mg/L	mg/L	0.000027	-0.00009 mg/L	0.000027	30.21%
Ca 317.933†	907452.0	59.58 mg/L	mg/L	0.436	59.58 mg/L	0.436	0.73%
Cd 228.802†	-17.0	-0.00111 mg/L	mg/L	0.000138	-0.00111 mg/L	0.000138	12.50%
Co 228.616†	31.6	0.00084 mg/L	mg/L	0.000145	0.00084 mg/L	0.000145	17.27%
Cr 267.716†	36.2	0.00232 mg/L	mg/L	0.000485	0.00232 mg/L	0.000485	20.90%
Cu 324.752†	142.4	0.00029 mg/L	mg/L	0.000063	0.00029 mg/L	0.000063	21.83%
Fe 273.955†	-21.4	-0.01154 mg/L	mg/L	0.000998	-0.01154 mg/L	0.000998	8.65%
K 766.490†	20660.8	10.31 mg/L	mg/L	0.058	10.31 mg/L	0.058	0.57%
Mg 279.077†	39294.5	24.49 mg/L	mg/L	0.137	24.49 mg/L	0.137	0.56%
Mn 257.610†	12618.4	0.1685 mg/L	mg/L	0.00071	0.1685 mg/L	0.00071	0.42%
Mo 202.031†	362.3	0.01863 mg/L	mg/L	0.000248	0.01863 mg/L	0.000248	1.33%
Na 589.592†	522223.8	32.29 mg/L	mg/L	0.346	32.29 mg/L	0.346	1.07%
Na 330.237†	1594.5	33.39 mg/L	mg/L	0.725	33.39 mg/L	0.725	2.17%
Ni 231.604†	11.7	0.00288 mg/L	mg/L	0.001649	0.00288 mg/L	0.001649	57.29%
Pb 220.353†	-26.2	-0.00249 mg/L	mg/L	0.001503	-0.00249 mg/L	0.001503	60.46%
Sb 206.836†	1.1	0.00023 mg/L	mg/L	0.001441	0.00023 mg/L	0.001441	615.73%
Se 196.026†	11.4	0.00944 mg/L	mg/L	0.002710	0.00944 mg/L	0.002710	28.71%
Si 288.158†	21233.9	7.042 mg/L	mg/L	0.0520	7.042 mg/L	0.0520	0.74%
Sn 189.927†	-22.7	-0.00440 mg/L	mg/L	0.001583	-0.00440 mg/L	0.001583	35.95%
Sr 421.552†	300849.6	0.3271 mg/L	mg/L	0.00390	0.3271 mg/L	0.00390	1.19%
Ti 334.903†	257.2	0.00409 mg/L	mg/L	0.000203	0.00409 mg/L	0.000203	4.96%
Tl 190.801†	31.6	0.01022 mg/L	mg/L	0.001600	0.01022 mg/L	0.001600	15.65%
V 292.402†	19.2	0.00023 mg/L	mg/L	0.000146	0.00023 mg/L	0.000146	62.84%
Zn 206.200†	8.1	0.00076 mg/L	mg/L	0.001110	0.00076 mg/L	0.001110	145.99%

Sequence No.: 21
 Sample ID: OX06 H DMN

Autosampler Location: 315
 Date Collected: 5/6/2009 10:31:47 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 H DMN

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: OX06 H DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2561780.5	101.4 %	%	0.92			0.91%
ScR 361.383	409867.8	101.0 %	%	1.11			1.10%
Ag 328.068†	-27.9	-0.00014 mg/L	mg/L	0.000152	-0.00014 mg/L	0.000152	108.84%
Al 308.215†	29.1	0.01123 mg/L	mg/L	0.007109	0.01123 mg/L	0.007109	63.30%
As 188.979†	39.0	0.02017 mg/L	mg/L	0.001730	0.02017 mg/L	0.001730	8.58%
B 249.677†	1072.1	0.08306 mg/L	mg/L	0.000508	0.08306 mg/L	0.000508	0.61%
Ba 233.527†	458.7	0.06273 mg/L	mg/L	0.000513	0.06273 mg/L	0.000513	0.82%
Be 313.042†	-8.7	-0.00001 mg/L	mg/L	0.000061	-0.00001 mg/L	0.000061	520.04%
Ca 317.933†	248582.3	16.32 mg/L	mg/L	0.068	16.32 mg/L	0.068	0.42%
Cd 228.802†	4.1	-0.00009 mg/L	mg/L	0.000132	-0.00009 mg/L	0.000132	139.53%
Co 228.616†	10.5	0.00028 mg/L	mg/L	0.000022	0.00028 mg/L	0.000022	7.87%
Cr 267.716†	17.2	0.00082 mg/L	mg/L	0.000241	0.00082 mg/L	0.000241	29.59%
Cu 324.752†	-25.0	-0.00017 mg/L	mg/L	0.000193	-0.00017 mg/L	0.000193	117.00%
Fe 273.955†	-16.5	-0.00890 mg/L	mg/L	0.000681	-0.00890 mg/L	0.000681	7.65%
K 766.490†	7411.9	3.697 mg/L	mg/L	0.0169	3.697 mg/L	0.0169	0.46%
Mg 279.077†	27422.7	17.09 mg/L	mg/L	0.132	17.09 mg/L	0.132	0.77%
Mn 257.610†	9259.4	0.1237 mg/L	mg/L	0.00097	0.1237 mg/L	0.00097	0.78%
Mo 202.031†	85.1	0.00435 mg/L	mg/L	0.000125	0.00435 mg/L	0.000125	2.88%
Na 589.592†	783368.3	48.44 mg/L	mg/L	0.230	48.44 mg/L	0.230	0.48%
Na 330.237†	2355.5	49.96 mg/L	mg/L	0.362	49.96 mg/L	0.362	0.73%
Ni 231.604†	12.9	0.00317 mg/L	mg/L	0.000380	0.00317 mg/L	0.000380	11.97%
Pb 220.353†	-20.5	-0.00255 mg/L	mg/L	0.001677	-0.00255 mg/L	0.001677	65.64%
Sb 206.836†	2.2	0.00063 mg/L	mg/L	0.001729	0.00063 mg/L	0.001729	275.71%
Se 196.026†	12.5	0.01036 mg/L	mg/L	0.000533	0.01036 mg/L	0.000533	5.14%
Si 288.158†	63229.4	20.97 mg/L	mg/L	0.134	20.97 mg/L	0.134	0.64%
Sn 189.927†	-8.0	-0.00171 mg/L	mg/L	0.001407	-0.00171 mg/L	0.001407	82.17%
Sr 421.552†	109139.3	0.1187 mg/L	mg/L	0.00087	0.1187 mg/L	0.00087	0.73%
Ti 334.903†	47.5	0.00020 mg/L	mg/L	0.001546	0.00020 mg/L	0.001546	782.54%
Tl 190.801†	12.8	0.00446 mg/L	mg/L	0.002108	0.00446 mg/L	0.002108	47.31%
V 292.402†	27.6	0.00029 mg/L	mg/L	0.000067	0.00029 mg/L	0.000067	22.73%
Zn 206.200†	-3.7	-0.00159 mg/L	mg/L	0.000806	-0.00159 mg/L	0.000806	50.81%

Sequence No.: 22
 Sample ID: OX06 I DMN

Autosampler Location: 316
 Date Collected: 5/6/2009 10:35:31 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 I DMN

Analyte Back Pressure Flow
 All 225.0 kPa 0.75 L/min

Mean Data: OX06 I DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2401563.3	95.09 %	%	0.953			1.00%
ScR 361.383	407062.5	100.3 %	%	0.79			0.79%
Ag 328.068†	-61.8	-0.00031 mg/L	mg/L	0.000157	-0.00031 mg/L	0.000157	50.85%
Al 308.215†	58.3	0.02250 mg/L	mg/L	0.006046	0.02250 mg/L	0.006046	26.87%
As 188.979†	78.1	0.02465 mg/L	mg/L	0.002770	0.02465 mg/L	0.002770	11.24%
B 249.677†	7593.9	0.5883 mg/L	mg/L	0.00297	0.5883 mg/L	0.00297	0.51%
Ba 233.527†	84.1	0.01148 mg/L	mg/L	0.000092	0.01148 mg/L	0.000092	0.80%
Be 313.042†	87.9	0.00010 mg/L	mg/L	0.000089	0.00010 mg/L	0.000089	90.16%
Ca 317.933†	921159.9	60.48 mg/L	mg/L	0.175	60.48 mg/L	0.175	0.29%
Cd 228.802†	-0.1	-0.00050 mg/L	mg/L	0.000086	-0.00050 mg/L	0.000086	17.06%
Co 228.616†	28.4	0.00075 mg/L	mg/L	0.000198	0.00075 mg/L	0.000198	26.39%
Cr 267.716†	96.4	0.00163 mg/L	mg/L	0.001497	0.00163 mg/L	0.001497	91.87%
Cu 324.752†	1096.5	0.00252 mg/L	mg/L	0.000182	0.00252 mg/L	0.000182	7.23%
Fe 273.955†	315.6	0.1705 mg/L	mg/L	0.00348	0.1705 mg/L	0.00348	2.04%
K 766.490†	100009.6	49.88 mg/L	mg/L	0.152	49.88 mg/L	0.152	0.31%
Mg 279.077†	233325.9	145.5 mg/L	mg/L	0.71	145.5 mg/L	0.71	0.49%
Mn 257.610†	12372.9	0.1643 mg/L	mg/L	0.00077	0.1643 mg/L	0.00077	0.47%
Mo 202.031†	137.3	0.00665 mg/L	mg/L	0.000217	0.00665 mg/L	0.000217	3.26%
Na 589.592†	17303036.0	1070 mg/L	mg/L	9.8	1070 mg/L	9.8	0.91%
Na 330.237†	59087.9	1256 mg/L	mg/L	8.4	1256 mg/L	8.4	0.67%
Ni 231.604†	13.2	0.00326 mg/L	mg/L	0.000948	0.00326 mg/L	0.000948	29.06%
Pb 220.353†	-46.6	-0.00533 mg/L	mg/L	0.000328	-0.00533 mg/L	0.000328	6.16%
Sb 206.836†	7.7	0.00213 mg/L	mg/L	0.002879	0.00213 mg/L	0.002879	135.34%
Se 196.026†	18.6	0.01535 mg/L	mg/L	0.004024	0.01535 mg/L	0.004024	26.22%
Si 288.158†	47215.8	15.66 mg/L	mg/L	0.106	15.66 mg/L	0.106	0.68%
Sn 189.927†	-30.8	-0.00666 mg/L	mg/L	0.000962	-0.00666 mg/L	0.000962	14.45%
Sr 421.552†	737827.2	0.8023 mg/L	mg/L	0.00713	0.8023 mg/L	0.00713	0.89%
Ti 334.903†	270.1	0.00454 mg/L	mg/L	0.001811	0.00454 mg/L	0.001811	39.86%
Tl 190.801†	23.4	0.00681 mg/L	mg/L	0.001781	0.00681 mg/L	0.001781	26.17%
V 292.402†	324.3	0.00319 mg/L	mg/L	0.000142	0.00319 mg/L	0.000142	4.44%
Zn 206.200†	0.3	-0.00161 mg/L	mg/L	0.001313	-0.00161 mg/L	0.001313	81.30%

Sequence No.: 23
 Sample ID: OX06 J DMN

Autosampler Location: 317
 Date Collected: 5/6/2009 10:39:46 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 J DMN

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: OX06 J DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2471686.7	97.87 %		1.141			1.17%
ScR 361.383	408267.1	100.6 %		2.45			2.43%
Ag 328.068†	-38.0	-0.00019 mg/L		0.000169	-0.00019 mg/L	0.000169	89.55%
Al 308.215†	74.5	0.02879 mg/L		0.003196	0.02879 mg/L	0.003196	11.10%
As 188.979†	56.8	0.02185 mg/L		0.002442	0.02185 mg/L	0.002442	11.17%
B 249.677†	2264.1	0.1754 mg/L		0.00173	0.1754 mg/L	0.00173	0.99%
Ba 233.527†	70.1	0.00956 mg/L		0.000797	0.00956 mg/L	0.000797	8.34%
Be 313.042†	12.7	0.00001 mg/L		0.000065	0.00001 mg/L	0.000065	>999.9%
Ca 317.933†	576524.9	37.86 mg/L		0.293	37.86 mg/L	0.293	0.78%
Cd 228.802†	1.7	-0.00030 mg/L		0.000180	-0.00030 mg/L	0.000180	60.49%
Co 228.616†	24.0	0.00064 mg/L		0.000068	0.00064 mg/L	0.000068	10.68%
Cr 267.716†	38.1	0.00019 mg/L		0.001034	0.00019 mg/L	0.001034	550.60%
Cu 324.752†	740.3	0.00190 mg/L		0.000096	0.00190 mg/L	0.000096	5.06%
Fe 273.955†	690.3	0.3729 mg/L		0.00660	0.3729 mg/L	0.00660	1.77%
K 766.490†	33673.5	16.80 mg/L		0.167	16.80 mg/L	0.167	1.00%
Mg 279.077†	101302.5	63.15 mg/L		0.475	63.15 mg/L	0.475	0.75%
Mn 257.610†	11902.2	0.1587 mg/L		0.00147	0.1587 mg/L	0.00147	0.93%
Mo 202.031†	122.7	0.00612 mg/L		0.000193	0.00612 mg/L	0.000193	3.15%
Na 589.592†	4907698.4	303.5 mg/L		3.82	303.5 mg/L	3.82	1.26%
Na 330.237†	15232.2	323.7 mg/L		2.21	323.7 mg/L	2.21	0.68%
Ni 231.604†	16.7	0.00412 mg/L		0.001126	0.00412 mg/L	0.001126	27.33%
Pb 220.353†	-40.0	-0.00489 mg/L		0.001403	-0.00489 mg/L	0.001403	28.67%
Sb 206.836†	5.5	0.00153 mg/L		0.002579	0.00153 mg/L	0.002579	168.65%
Se 196.026†	14.4	0.01193 mg/L		0.002950	0.01193 mg/L	0.002950	24.72%
Si 288.158†	46857.7	15.54 mg/L		0.153	15.54 mg/L	0.153	0.98%
Sn 189.927†	-28.1	-0.00667 mg/L		0.001696	-0.00667 mg/L	0.001696	25.44%
Sr 421.552†	322421.1	0.3506 mg/L		0.00297	0.3506 mg/L	0.00297	0.85%
Ti 334.903†	195.0	0.00388 mg/L		0.001074	0.00388 mg/L	0.001074	27.66%
Tl 190.801†	23.7	0.00796 mg/L		0.001649	0.00796 mg/L	0.001649	20.71%
V 292.402†	296.2	0.00288 mg/L		0.000108	0.00288 mg/L	0.000108	3.75%
Zn 206.200†	-0.7	-0.00128 mg/L		0.000913	-0.00128 mg/L	0.000913	71.49%

Sequence No.: 24

Autosampler Location: 318

Sample ID: OX06 K DMN

Date Collected: 5/6/2009 10:43:47 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 K DMN

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: OX06 K DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2427454.5	96.12	%	1.013			1.05%
ScR 361.383	401491.6	98.90	%	0.367			0.37%
Ag 328.068†	-76.0	-0.00038	mg/L	0.000127	-0.00038 mg/L	0.000127	33.56%
Al 308.215†	58.5	0.02262	mg/L	0.005330	0.02262 mg/L	0.005330	23.57%
As 188.979†	78.0	0.02623	mg/L	0.005004	0.02623 mg/L	0.005004	19.08%
B 249.677†	4355.1	0.3374	mg/L	0.00128	0.3374 mg/L	0.00128	0.38%
Ba 233.527†	163.5	0.02236	mg/L	0.000566	0.02236 mg/L	0.000566	2.53%
Be 313.042†	71.7	0.00009	mg/L	0.000034	0.00009 mg/L	0.000034	39.41%
Ca 317.933†	904063.1	59.36	mg/L	0.549	59.36 mg/L	0.549	0.92%
Cd 228.802†	-4.8	-0.00068	mg/L	0.000129	-0.00068 mg/L	0.000129	18.98%
Co 228.616†	43.4	0.00116	mg/L	0.000124	0.00116 mg/L	0.000124	10.68%
Cr 267.716†	62.7	0.00032	mg/L	0.000576	0.00032 mg/L	0.000576	180.91%
Cu 324.752†	875.5	0.00208	mg/L	0.000196	0.00208 mg/L	0.000196	9.46%
Fe 273.955†	39.8	0.02149	mg/L	0.000754	0.02149 mg/L	0.000754	3.51%
K 766.490†	64283.7	32.06	mg/L	0.402	32.06 mg/L	0.402	1.25%
Mg 279.077†	163988.3	102.2	mg/L	0.50	102.2 mg/L	0.50	0.49%
Mn 257.610†	59469.3	0.7949	mg/L	0.00114	0.7949 mg/L	0.00114	0.14%
Mo 202.031†	90.9	0.00420	mg/L	0.000407	0.00420 mg/L	0.000407	9.71%
Na 589.592†	11169503.4	690.6	mg/L	5.81	690.6 mg/L	5.81	0.84%
Na 330.237†	36634.9	778.7	mg/L	5.81	778.7 mg/L	5.81	0.75%
Ni 231.604†	17.3	0.00428	mg/L	0.001364	0.00428 mg/L	0.001364	31.90%
Pb 220.353†	-47.7	-0.00551	mg/L	0.000662	-0.00551 mg/L	0.000662	12.00%
Sb 206.836†	-0.4	-0.00027	mg/L	0.001899	-0.00027 mg/L	0.001899	716.31%
Se 196.026†	22.2	0.01831	mg/L	0.008457	0.01831 mg/L	0.008457	46.20%
Si 288.158†	27809.8	9.222	mg/L	0.0656	9.222 mg/L	0.0656	0.71%
Sn 189.927†	-27.1	-0.00567	mg/L	0.000390	-0.00567 mg/L	0.000390	6.87%
Sr 421.552†	570697.2	0.6205	mg/L	0.00369	0.6205 mg/L	0.00369	0.60%
Ti 334.903†	241.1	0.00350	mg/L	0.000902	0.00350 mg/L	0.000902	25.76%
Tl 190.801†	35.1	0.01157	mg/L	0.002577	0.01157 mg/L	0.002577	22.27%
V 292.402†	102.6	0.00113	mg/L	0.000178	0.00113 mg/L	0.000178	15.66%
Zn 206.200†	30.2	0.00752	mg/L	0.001121	0.00752 mg/L	0.001121	14.92%

Sequence No.: 25
 Sample ID: OX06 L DMN

Autosampler Location: 319
 Date Collected: 5/6/2009 10:47:54 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 L DMN

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: OX06 L DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2226699.3	88.17 %	%	0.304			0.34%
ScR 361.383	391339.5	96.40 %	%	1.288			1.34%
Ag 328.068†	-141.5	-0.00071 mg/L	mg/L	0.000083	-0.00071 mg/L	0.000083	11.81%
Al 308.215†	41.1	0.01577 mg/L	mg/L	0.008940	0.01577 mg/L	0.008940	56.70%
As 188.979†	124.0	0.02179 mg/L	mg/L	0.005977	0.02179 mg/L	0.005977	27.43%
B 249.677†	16785.8	1.300 mg/L	mg/L	0.0162	1.300 mg/L	0.0162	1.25%
Ba 233.527†	100.8	0.01378 mg/L	mg/L	0.000479	0.01378 mg/L	0.000479	3.48%
Be 313.042†	103.4	0.00011 mg/L	mg/L	0.000060	0.00011 mg/L	0.000060	52.59%
Ca 317.933†	1923719.4	126.3 mg/L	mg/L	1.12	126.3 mg/L	1.12	0.89%
Cd 228.802†	-4.7	-0.00098 mg/L	mg/L	0.000163	-0.00098 mg/L	0.000163	16.72%
Co 228.616†	55.6	0.00147 mg/L	mg/L	0.000063	0.00147 mg/L	0.000063	4.31%
Cr 267.716†	210.1	0.00102 mg/L	mg/L	0.000538	0.00102 mg/L	0.000538	52.81%
Cu 324.752†	1468.0	0.00252 mg/L	mg/L	0.000077	0.00252 mg/L	0.000077	3.05%
Fe 273.955†	70.3	0.03795 mg/L	mg/L	0.002418	0.03795 mg/L	0.002418	6.37%
K 766.490†	247259.2	123.3 mg/L	mg/L	1.14	123.3 mg/L	1.14	0.92%
Mg 279.077†	571207.3	356.1 mg/L	mg/L	2.57	356.1 mg/L	2.57	0.72%
Mn 257.610†	21828.6	0.2891 mg/L	mg/L	0.00346	0.2891 mg/L	0.00346	1.20%
Mo 202.031†	169.4	0.00766 mg/L	mg/L	0.000195	0.00766 mg/L	0.000195	2.54%
Na 589.592†	Saturated3						
Na 330.237†	158411.2	3368 mg/L	mg/L	23.1	3368 mg/L	23.1	0.69%
Ni 231.604†	7.3	0.00180 mg/L	mg/L	0.001690	0.00180 mg/L	0.001690	93.84%
Pb 220.353†	-76.6	-0.00821 mg/L	mg/L	0.001338	-0.00821 mg/L	0.001338	16.29%
Sb 206.836†	8.0	0.00203 mg/L	mg/L	0.000784	0.00203 mg/L	0.000784	38.63%
Se 196.026†	32.8	0.02706 mg/L	mg/L	0.002922	0.02706 mg/L	0.002922	10.80%
Si 288.158†	30925.3	10.26 mg/L	mg/L	0.115	10.26 mg/L	0.115	1.12%
Sn 189.927†	-41.1	-0.00733 mg/L	mg/L	0.000291	-0.00733 mg/L	0.000291	3.97%
Sr 421.552†	1708953.0	1.858 mg/L	mg/L	0.0074	1.858 mg/L	0.0074	0.40%
Ti 334.903†	497.0	0.00680 mg/L	mg/L	0.001640	0.00680 mg/L	0.001640	24.11%
Tl 190.801†	35.5	0.00880 mg/L	mg/L	0.001107	0.00880 mg/L	0.001107	12.58%
V 292.402†	437.6	0.00435 mg/L	mg/L	0.000105	0.00435 mg/L	0.000105	2.41%
Zn 206.200†	15.4	0.00109 mg/L	mg/L	0.001465	0.00109 mg/L	0.001465	134.67%

Sequence No.: 26
Sample ID: OX06 M DMN

Autosampler Location: 320
Date Collected: 5/6/2009 10:51:40 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 M DMN

Analyte Back Pressure Flow
All 223.0 kPa 0.75 L/min

Mean Data: OX06 M DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
SCA 357.253	2565159.8	101.6 %	%	0.67			0.66%
ScR 361.383	416731.8	102.7 %	%	0.71			0.69%
Ag 328.068†	-40.8	-0.00020 mg/L	mg/L	0.000023	-0.00020 mg/L	0.000023	11.28%
Al 308.215†	61.2	0.02362 mg/L	mg/L	0.008744	0.02362 mg/L	0.008744	37.02%
As 188.979†	53.0	0.02299 mg/L	mg/L	0.001915	0.02299 mg/L	0.001915	8.33%
B 249.677†	330.3	0.02559 mg/L	mg/L	0.000820	0.02559 mg/L	0.000820	3.20%
Ba 233.527†	64.4	0.00880 mg/L	mg/L	0.000561	0.00880 mg/L	0.000561	6.37%
Be 313.042†	-42.0	-0.00006 mg/L	mg/L	0.000015	-0.00006 mg/L	0.000015	23.74%
Ca 317.933†	474054.6	31.13 mg/L	mg/L	0.666	31.13 mg/L	0.666	2.14%
Cd 228.802†	-4.2	-0.00050 mg/L	mg/L	0.000092	-0.00050 mg/L	0.000092	18.55%
Co 228.616†	13.2	0.00035 mg/L	mg/L	0.000033	0.00035 mg/L	0.000033	9.57%
Cr 267.716†	33.8	0.00153 mg/L	mg/L	0.001008	0.00153 mg/L	0.001008	65.85%
Cu 324.752†	359.4	0.00088 mg/L	mg/L	0.000148	0.00088 mg/L	0.000148	16.81%
Fe 273.955†	-26.4	-0.01428 mg/L	mg/L	0.001826	-0.01428 mg/L	0.001826	12.79%
K 766.490†	10453.0	5.214 mg/L	mg/L	0.0573	5.214 mg/L	0.0573	1.10%
Mg 279.077†	56716.5	35.35 mg/L	mg/L	0.260	35.35 mg/L	0.260	0.74%
Mn 257.610†	1570.8	0.02067 mg/L	mg/L	0.000199	0.02067 mg/L	0.000199	0.96%
Mo 202.031†	128.3	0.00649 mg/L	mg/L	0.000082	0.00649 mg/L	0.000082	1.26%
Na 589.592†	293278.8	18.13 mg/L	mg/L	0.559	18.13 mg/L	0.559	3.08%
Na 330.237†	897.6	18.82 mg/L	mg/L	0.353	18.82 mg/L	0.353	1.88%
Ni 231.604†	23.2	0.00575 mg/L	mg/L	0.001659	0.00575 mg/L	0.001659	28.85%
Pb 220.353†	-26.8	-0.00313 mg/L	mg/L	0.000734	-0.00313 mg/L	0.000734	23.41%
Sb 206.836†	-1.7	-0.00061 mg/L	mg/L	0.002214	-0.00061 mg/L	0.002214	360.53%
Se 196.026†	13.9	0.01147 mg/L	mg/L	0.005577	0.01147 mg/L	0.005577	48.62%
Si 288.158†	56915.2	18.87 mg/L	mg/L	0.156	18.87 mg/L	0.156	0.82%
Sn 189.927†	-21.9	-0.00515 mg/L	mg/L	0.000841	-0.00515 mg/L	0.000841	16.33%
Sr 421.552†	141402.1	0.1537 mg/L	mg/L	0.00276	0.1537 mg/L	0.00276	1.79%
Ti 334.903†	149.4	0.00275 mg/L	mg/L	0.000281	0.00275 mg/L	0.000281	10.22%
Tl 190.801†	21.4	0.00729 mg/L	mg/L	0.000984	0.00729 mg/L	0.000984	13.51%
V 292.402†	334.1	0.00324 mg/L	mg/L	0.000098	0.00324 mg/L	0.000098	3.03%
Zn 206.200†	1.5	-0.00043 mg/L	mg/L	0.001204	-0.00043 mg/L	0.001204	277.16%

Sequence No.: 27

Autosampler Location: 321

Sample ID: OX06 N DMN

Date Collected: 5/6/2009 10:55:24 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 N DMN

Analyte	Back Pressure	Flow
All	225.0 kPa	0.75 L/min

Mean Data: OX06 N DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2595294.8	102.8	%	1.37			1.33%
ScR 361.383	423067.6	104.2	%	2.30			2.21%
Ag 328.068†	-9.9	-0.00005	mg/L	0.000201	-0.00005 mg/L	0.000201	407.52%
Al 308.215†	25.5	0.00991	mg/L	0.004245	0.00991 mg/L	0.004245	42.84%
As 188.979†	5.8	0.00419	mg/L	0.002926	0.00419 mg/L	0.002926	69.81%
B 249.677†	-19.0	-0.00147	mg/L	0.000471	-0.00147 mg/L	0.000471	32.01%
Ba 233.527†	-3.9	-0.00053	mg/L	0.000784	-0.00053 mg/L	0.000784	148.62%
Be 313.042†	-175.4	-0.00022	mg/L	0.000081	-0.00022 mg/L	0.000081	37.04%
Ca 317.933†	361.6	0.02374	mg/L	0.001102	0.02374 mg/L	0.001102	4.64%
Cd 228.802†	2.9	0.00008	mg/L	0.000242	0.00008 mg/L	0.000242	321.26%
Co 228.616†	7.6	0.00021	mg/L	0.000091	0.00021 mg/L	0.000091	44.18%
Cr 267.716†	13.6	0.00163	mg/L	0.001322	0.00163 mg/L	0.001322	81.19%
Cu 324.752†	-42.9	-0.00013	mg/L	0.000146	-0.00013 mg/L	0.000146	113.57%
Fe 273.955†	-28.1	-0.01519	mg/L	0.002722	-0.01519 mg/L	0.002722	17.92%
K 766.490†	84.3	0.04205	mg/L	0.015390	0.04205 mg/L	0.015390	36.60%
Mg 279.077†	17.1	0.01064	mg/L	0.005913	0.01064 mg/L	0.005913	55.57%
Mn 257.610†	-30.9	-0.00041	mg/L	0.000259	-0.00041 mg/L	0.000259	62.66%
Mo 202.031†	0.2	0.00001	mg/L	0.000108	0.00001 mg/L	0.000108	869.00%
Na 589.592†	6663.3	0.4120	mg/L	0.00886	0.4120 mg/L	0.00886	2.15%
Na 330.237†	33.0	0.7018	mg/L	0.98615	0.7018 mg/L	0.98615	140.52%
Ni 231.604†	8.5	0.00210	mg/L	0.002006	0.00210 mg/L	0.002006	95.55%
Pb 220.353†	10.6	0.00150	mg/L	0.001999	0.00150 mg/L	0.001999	133.16%
Sb 206.836†	-8.2	-0.00250	mg/L	0.001398	-0.00250 mg/L	0.001398	55.91%
Se 196.026†	4.0	0.00330	mg/L	0.002964	0.00330 mg/L	0.002964	89.79%
Si 288.158†	-7.9	-0.00263	mg/L	0.000697	-0.00263 mg/L	0.000697	26.46%
Sn 189.927†	0.3	0.00010	mg/L	0.000273	0.00010 mg/L	0.000273	286.83%
Sr 421.552†	148.1	0.00016	mg/L	0.000054	0.00016 mg/L	0.000054	33.46%
Ti 334.903†	5.8	0.00023	mg/L	0.001354	0.00023 mg/L	0.001354	586.55%
Tl 190.801†	5.4	0.00217	mg/L	0.000788	0.00217 mg/L	0.000788	36.26%
V 292.402†	-4.2	-0.00003	mg/L	0.000084	-0.00003 mg/L	0.000084	251.27%
Zn 206.200†	5.5	0.00169	mg/L	0.001504	0.00169 mg/L	0.001504	89.08%

Sequence No.: 28
 Sample ID: OW90 REF1 SWC

DD
Review

Autosampler Location: 322
 Date Collected: 5/6/2009 10:58:52 AM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: OW90 REF1 SWC

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: OW90 REF1 SWC

Analyte	Mean Corrected			Std.Dev.	Sample		
	Intensity	Conc.	Calib. Units		Conc.	Units	Std.Dev.
ScA 357.253	2503463.5	99.13	%	1.091			1.10%
ScR 361.383	407006.3	100.3	%	0.40			0.40%
Ag 328.068†	151214.2	0.7549	mg/L	0.01249	1.510	mg/L	0.0250 1.65%
Al 308.215†	152670.4	59.29	mg/L	0.332	118.6	mg/L	0.66 0.56%
As 188.979†	1275.6	0.9063	mg/L	0.01045	1.813	mg/L	0.0209 1.15%
B 249.677†	9732.0	0.7535	mg/L	0.00598	1.507	mg/L	0.0120 0.79%
Ba 233.527†	14708.8	2.004	mg/L	0.0114	4.008	mg/L	0.0228 0.57%
Be 313.042†	451186.6	0.5597	mg/L	0.00430	1.119	mg/L	0.0086 0.77%
Ca 317.933†	382212.2	25.10	mg/L	0.256	50.19	mg/L	0.512 1.02%
Cd 228.802†	12338.3	0.4585	mg/L	0.01206	0.9170	mg/L	0.02413 2.63%
Co 228.616†	17337.4	0.4661	mg/L	0.00898	0.9323	mg/L	0.01796 1.93%
Cr 267.716†	3891.6	0.4728	mg/L	0.00293	0.9457	mg/L	0.00585 0.62%
Cu 324.752†	146890.2	0.4426	mg/L	0.00638	0.8851	mg/L	0.01276 1.44%
Fe 273.955†	169528.5	91.58	mg/L	0.406	183.2	mg/L	0.81 0.44%
K 766.490†	46007.4	22.95	mg/L	0.224	45.89	mg/L	0.447 0.97%
Mg 279.077†	28729.0	17.88	mg/L	0.129	35.77	mg/L	0.258 0.72%
Mn 257.610†	209359.9	2.801	mg/L	0.0256	5.603	mg/L	0.0511 0.91%
Mo 202.031†	5797.8	0.3081	mg/L	0.00325	0.6163	mg/L	0.00650 1.06%
Na 589.592†	58294.9	3.605	mg/L	0.0065	7.209	mg/L	0.0130 0.18%
Na 330.237†	187.0	3.685	mg/L	0.0818	7.370	mg/L	0.1635 2.22%
Ni 231.604†	1360.3	0.3365	mg/L	0.00240	0.6731	mg/L	0.00479 0.71%
Pb 220.353†	6231.0	0.8814	mg/L	0.01439	1.763	mg/L	0.0288 1.63%
Sb 206.836†	1254.9	0.3850	mg/L	0.00426	0.7700	mg/L	0.00852 1.11%
Se 196.026†	1346.8	1.123	mg/L	0.0123	2.247	mg/L	0.0246 1.10%
Si 288.158†	4237.7	1.403	mg/L	0.0043	2.805	mg/L	0.0087 0.31%
Sn 189.927†	3879.8	1.103	mg/L	0.0117	2.206	mg/L	0.0234 1.06%
Sr 421.552†	316388.2	0.3440	mg/L	0.00153	0.6880	mg/L	0.00305 0.44%
Ti 334.903†	41012.8	1.645	mg/L	0.0216	3.290	mg/L	0.0433 1.31%
Tl 190.801†	2368.2	0.9635	mg/L	0.00916	1.927	mg/L	0.0183 0.95%
V 292.402†	58252.1	0.5595	mg/L	0.01015	1.119	mg/L	0.0203 1.81%
Zn 206.200†	3576.1	1.088	mg/L	0.0057	2.176	mg/L	0.0113 0.52%

Sequence No.: 29

Autosampler Location: 323

Sample ID: OX06 MB1SPD DMN

Date Collected: 5/6/2009 11:02:22 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: OX06 MB1SPD DMN

Analyte	Back Pressure	Flow
All	225.0 kPa	0.75 L/min

Mean Data: OX06 MB1SPD DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
ScA 357.253	2563944.7	101.5 %		0.81				0.80%
ScR 361.383	426507.4	105.1 %		2.23				2.12%
Ag 328.068†	100165.9	0.5000 mg/L		0.00742	0.5000 mg/L		0.00742	1.48%
Al 308.215†	5171.0	1.991 mg/L		0.0263	1.991 mg/L		0.0263	1.32%
As 188.979†	2913.4	2.094 mg/L		0.0220	2.094 mg/L		0.0220	1.05%
B 249.677†	53.6	0.00378 mg/L		0.000770	0.00378 mg/L		0.000770	20.35%
Ba 233.527†	14152.7	1.935 mg/L		0.0255	1.935 mg/L		0.0255	1.32%
Be 313.042†	386180.2	0.4790 mg/L		0.00180	0.4790 mg/L		0.00180	0.38%
Ca 317.933†	147471.3	9.683 mg/L		0.0440	9.683 mg/L		0.0440	0.45%
Cd 228.802†	14086.1	0.5142 mg/L		0.00695	0.5142 mg/L		0.00695	1.35%
Co 228.616†	18572.2	0.4987 mg/L		0.00692	0.4987 mg/L		0.00692	1.39%
Cr 267.716†	4057.8	0.4873 mg/L		0.00529	0.4873 mg/L		0.00529	1.09%
Cu 324.752†	164786.1	0.4900 mg/L		0.00758	0.4900 mg/L		0.00758	1.55%
Fe 273.955†	3556.0	1.915 mg/L		0.0164	1.915 mg/L		0.0164	0.86%
K 766.490†	19125.6	9.539 mg/L		0.0508	9.539 mg/L		0.0508	0.53%
Mg 279.077†	16049.9	10.01 mg/L		0.126	10.01 mg/L		0.126	1.26%
Mn 257.610†	35001.0	0.4687 mg/L		0.00304	0.4687 mg/L		0.00304	0.65%
Mo 202.031†	10278.3	0.5465 mg/L		0.00588	0.5465 mg/L		0.00588	1.08%
Na 589.592†	148355.1	9.173 mg/L		0.0617	9.173 mg/L		0.0617	0.67%
Na 330.237†	447.4	9.709 mg/L		0.1319	9.709 mg/L		0.1319	1.36%
Ni 231.604†	1865.1	0.4631 mg/L		0.00783	0.4631 mg/L		0.00783	1.69%
Pb 220.353†	14402.5	2.027 mg/L		0.0304	2.027 mg/L		0.0304	1.50%
Sb 206.836†	7172.7	2.158 mg/L		0.0222	2.158 mg/L		0.0222	1.03%
Se 196.026†	2709.8	2.239 mg/L		0.0283	2.239 mg/L		0.0283	1.27%
Si 288.158†	-4.7	-0.00535 mg/L		0.002042	-0.00535 mg/L		0.002042	38.19%
Sn 189.927†	-16.3	-0.00101 mg/L		0.000111	-0.00101 mg/L		0.000111	10.96%
Sr 421.552†	423381.7	0.4604 mg/L		0.00384	0.4604 mg/L		0.00384	0.83%
Ti 334.903†	53621.3	2.153 mg/L		0.0096	2.153 mg/L		0.0096	0.45%
Tl 190.801†	5008.9	2.021 mg/L		0.0205	2.021 mg/L		0.0205	1.01%
V 292.402†	51753.1	0.4989 mg/L		0.00673	0.4989 mg/L		0.00673	1.35%
Zn 206.200†	1546.3	0.4703 mg/L		0.00763	0.4703 mg/L		0.00763	1.62%

Sequence No.: 30

Autosampler Location: 7

Sample ID: CV 3

Date Collected: 5/6/2009 11:05:52 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
SCA 357.253	2502036.0	99.07 %	0.824			0.83%
ScR 361.383	394454.6	97.17 %	0.329			0.34%
Ag 328.068†	194755.4	0.9722 mg/L	0.00632	0.9722 mg/L	0.00632	0.65%
Al 308.215†	5414.5	2.073 mg/L	0.0126	2.073 mg/L	0.0126	0.61%
As 188.979†	2781.9	2.004 mg/L	0.0171	2.004 mg/L	0.0171	0.85%
B 249.677†	12528.8	0.9698 mg/L	0.00713	0.9698 mg/L	0.00713	0.73%
Ba 233.527†	7275.1	0.9942 mg/L	0.00671	0.9942 mg/L	0.00671	0.67%
Be 313.042†	812310.4	1.008 mg/L	0.0019	1.008 mg/L	0.0019	0.19%
Ca 317.933†	30487.4	2.002 mg/L	0.0043	2.002 mg/L	0.0043	0.22%
Cd 228.802†	26545.7	0.9865 mg/L	0.01136	0.9865 mg/L	0.01136	1.15%
Co 228.616†	37545.9	1.015 mg/L	0.0067	1.015 mg/L	0.0067	0.66%
Cr 267.716†	8480.9	1.020 mg/L	0.0051	1.020 mg/L	0.0051	0.50%
Cu 324.752†	334918.9	0.9967 mg/L	0.00550	0.9967 mg/L	0.00550	0.55%
Fe 273.955†	3705.5	1.990 mg/L	0.0112	1.990 mg/L	0.0112	0.56%
K 766.490†	39935.4	19.92 mg/L	0.108	19.92 mg/L	0.108	0.54%
Mg 279.077†	3293.3	2.057 mg/L	0.0090	2.057 mg/L	0.0090	0.44%
Mn 257.610†	72903.2	0.9760 mg/L	0.00124	0.9760 mg/L	0.00124	0.13%
Mo 202.031†	18553.9	0.9868 mg/L	0.00616	0.9868 mg/L	0.00616	0.62%
Na 589.592†	780388.5	48.25 mg/L	0.147	48.25 mg/L	0.147	0.31%
Na 330.237†	2327.6	49.33 mg/L	0.347	49.33 mg/L	0.347	0.70%
Ni 231.604†	3910.9	0.9694 mg/L	0.00878	0.9694 mg/L	0.00878	0.91%
Pb 220.353†	14383.9	2.025 mg/L	0.0115	2.025 mg/L	0.0115	0.57%
Sb 206.836†	6612.2	1.994 mg/L	0.0121	1.994 mg/L	0.0121	0.61%
Se 196.026†	2405.2	1.987 mg/L	0.0142	1.987 mg/L	0.0142	0.72%
Si 288.158†	6416.3	2.127 mg/L	0.0109	2.127 mg/L	0.0109	0.51%
Sn 189.927†	3501.1	0.9964 mg/L	0.00780	0.9964 mg/L	0.00780	0.78%
Sr 421.552†	940291.6	1.022 mg/L	0.0049	1.022 mg/L	0.0049	0.48%
Ti 334.903†	25506.5	1.023 mg/L	0.0011	1.023 mg/L	0.0011	0.11%
Tl 190.801†	4922.5	1.982 mg/L	0.0139	1.982 mg/L	0.0139	0.70%
V 292.402†	102037.5	0.9860 mg/L	0.00740	0.9860 mg/L	0.00740	0.75%
Zn 206.200†	3263.3	0.9929 mg/L	0.00909	0.9929 mg/L	0.00909	0.92%

Sequence No.: 31

Sample ID: CB 3

Autosampler Location: 1

Date Collected: 5/6/2009 11:09:10 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2535187.7	100.4 %	%	0.18			0.18%
ScR 361.383	405085.6	99.79 %	%	1.450			1.45%
Ag 328.068†	58.4	0.00029 mg/L	mg/L	0.000328	0.00029 mg/L	0.000328	112.57%
Al 308.215†	42.1	0.01633 mg/L	mg/L	0.007334	0.01633 mg/L	0.007334	44.90%
As 188.979†	2.0	0.00147 mg/L	mg/L	0.000386	0.00147 mg/L	0.000386	26.14%
B 249.677†	0.2	0.00001 mg/L	mg/L	0.000866	0.00001 mg/L	0.000866	>999.9%
Ba 233.527†	5.0	0.00068 mg/L	mg/L	0.000860	0.00068 mg/L	0.000860	126.22%
Be 313.042†	33.6	0.00004 mg/L	mg/L	0.000068	0.00004 mg/L	0.000068	175.88%
Ca 317.933†	-53.7	-0.00353 mg/L	mg/L	0.001648	-0.00353 mg/L	0.001648	46.69%
Cd 228.802†	20.1	0.00075 mg/L	mg/L	0.000823	0.00075 mg/L	0.000823	109.81%
Co 228.616†	28.7	0.00078 mg/L	mg/L	0.000857	0.00078 mg/L	0.000857	109.98%
Cr 267.716†	1.8	0.00022 mg/L	mg/L	0.001081	0.00022 mg/L	0.001081	495.83%
Cu 324.752†	224.1	0.00067 mg/L	mg/L	0.000453	0.00067 mg/L	0.000453	68.01%
Fe 273.955†	-29.0	-0.01566 mg/L	mg/L	0.002044	-0.01566 mg/L	0.002044	13.05%
K 766.490†	-15.3	-0.00762 mg/L	mg/L	0.016528	-0.00762 mg/L	0.016528	216.96%
Mg 279.077†	-13.5	-0.00843 mg/L	mg/L	0.007057	-0.00843 mg/L	0.007057	83.66%
Mn 257.610†	-2.0	-0.00003 mg/L	mg/L	0.000017	-0.00003 mg/L	0.000017	65.99%
Mo 202.031†	21.1	0.00112 mg/L	mg/L	0.000867	0.00112 mg/L	0.000867	77.17%
Na 589.592†	981.6	0.06069 mg/L	mg/L	0.001873	0.06069 mg/L	0.001873	3.09%
Na 330.237†	8.3	0.1768 mg/L	mg/L	0.38841	0.1768 mg/L	0.38841	219.74%
Ni 231.604†	11.3	0.00281 mg/L	mg/L	0.000875	0.00281 mg/L	0.000875	31.13%
Pb 220.353†	3.2	0.00046 mg/L	mg/L	0.001106	0.00046 mg/L	0.001106	241.94%
Sb 206.836†	7.2	0.00220 mg/L	mg/L	0.002391	0.00220 mg/L	0.002391	108.79%
Se 196.026†	2.8	0.00235 mg/L	mg/L	0.005122	0.00235 mg/L	0.005122	217.90%
Si 288.158†	-3.6	-0.00119 mg/L	mg/L	0.003456	-0.00119 mg/L	0.003456	289.71%
Sn 189.927†	6.2	0.00177 mg/L	mg/L	0.001190	0.00177 mg/L	0.001190	67.11%
Sr 421.552†	133.4	0.00015 mg/L	mg/L	0.000068	0.00015 mg/L	0.000068	47.00%
Ti 334.903†	-8.8	-0.00036 mg/L	mg/L	0.002112	-0.00036 mg/L	0.002112	590.73%
Tl 190.801†	5.9	0.00239 mg/L	mg/L	0.000537	0.00239 mg/L	0.000537	22.45%
V 292.402†	98.7	0.00095 mg/L	mg/L	0.001075	0.00095 mg/L	0.001075	112.95%
Zn 206.200†	1.8	0.00056 mg/L	mg/L	0.000644	0.00056 mg/L	0.000644	114.70%

Sequence No.: 32

Autosampler Location: 323

Sample ID: OW90 MB1 SWC 222222

Date Collected: 5/6/2009 11:12:39 AM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: OW90 MB1 SWC

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: OW90 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	4879626.6	193.2 %	%	38.87			20.12%
ScR 361.383	1015947.4	250.3 %	%	20.34			8.13%
Ag 328.068†	13593.9	0.06786 mg/L	mg/L	0.064810	0.1357 mg/L	0.12962	95.50%
Al 308.215†	37.0	0.01196 mg/L	mg/L	0.000884	0.02392 mg/L	0.001769	7.39%
As 188.979†	534.9	0.3857 mg/L	mg/L	0.26150	0.7714 mg/L	0.52299	67.80%
B 249.677†	-2.2	-0.00020 mg/L	mg/L	0.000588	-0.00040 mg/L	0.001175	290.97%
Ba 233.527†	181.5	0.02479 mg/L	mg/L	0.053882	0.04958 mg/L	0.107764	217.34%
Be 313.042†	-1749.5	-0.00240 mg/L	mg/L	0.000132	-0.00481 mg/L	0.000264	5.50%
Ca 317.933†	-366.4	-0.02406 mg/L	mg/L	0.000799	-0.04811 mg/L	0.001598	3.32%
Cd 228.802†	1842.7	0.06623 mg/L	mg/L	0.064478	0.1325 mg/L	0.12896	97.35%
Co 228.616†	2518.9	0.06822 mg/L	mg/L	0.064566	0.1364 mg/L	0.12913	94.64%
Cr 267.716†	306.3	0.03682 mg/L	mg/L	0.013849	0.07364 mg/L	0.027697	37.61%
Cu 324.752†	20883.6	0.06214 mg/L	mg/L	0.062624	0.1243 mg/L	0.12525	100.78%
Fe 273.955†	7.1	0.00298 mg/L	mg/L	0.053958	0.00596 mg/L	0.107916	>999.9%
K 766.490†	88.1	0.04395 mg/L	mg/L	0.004888	0.08790 mg/L	0.009776	11.12%
Mg 279.077†	244.1	0.1526 mg/L	mg/L	0.27553	0.3052 mg/L	0.55107	180.58%
Mn 257.610†	65.8	0.00094 mg/L	mg/L	0.011772	0.00189 mg/L	0.023545	>999.9%
Mo 202.031†	1882.7	0.1001 mg/L	mg/L	0.06614	0.2003 mg/L	0.13228	66.06%
Na 589.592†	-838.3	-0.05183 mg/L	mg/L	0.004067	-0.1037 mg/L	0.00813	7.85%
Na 330.237†	354.2	7.529 mg/L	mg/L	0.3427	15.06 mg/L	0.685	4.55%
Ni 231.604†	94.2	0.02362 mg/L	mg/L	0.013378	0.04725 mg/L	0.026756	56.63%
Pb 220.353†	1942.1	0.2732 mg/L	mg/L	0.26057	0.5465 mg/L	0.52115	95.37%
Sb 206.836†	1246.7	0.3756 mg/L	mg/L	0.26418	0.7512 mg/L	0.52837	70.34%
Se 196.026†	490.3	0.4051 mg/L	mg/L	0.27715	0.8102 mg/L	0.55430	68.41%
Si 288.158†	-120.3	-0.03986 mg/L	mg/L	0.000736	-0.07973 mg/L	0.001472	1.85%
Sn 189.927†	4.9	0.00179 mg/L	mg/L	0.000421	0.00357 mg/L	0.000842	23.58%
Sr 421.552†	275.2	0.00030 mg/L	mg/L	0.000011	0.00060 mg/L	0.000023	3.76%
Ti 334.903†	219.5	0.00858 mg/L	mg/L	0.000889	0.01716 mg/L	0.001779	10.37%
Tl 190.801†	936.5	0.3785 mg/L	mg/L	0.25279	0.7569 mg/L	0.50558	66.80%
V 292.402†	7030.2	0.06783 mg/L	mg/L	0.064243	0.1357 mg/L	0.12849	94.71%
Zn 206.200†	54.1	0.01644 mg/L	mg/L	0.012748	0.03288 mg/L	0.025496	77.54%

Sequence No.: 33
Sample ID: OW90 B SWC
Dilution: 2X

Autosampler Location: 324
Date Collected: 5/6/2009 11:16:30 AM
Data Type: Original

Nebulizer Parameters: OW90 B SWC
Analyte Back Pressure Flow
All 224.0 kPa 0.75 L/min

Mean Data: OW90 B SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2542602.3	100.7	%	0.64			0.63%
ScR 361.383	405005.1	99.77	%	0.374			0.37%
Ag 328.068†	18.0	0.00009	mg/L	0.000126	0.00018 mg/L	0.000253	140.75%
Al 308.215†	50.5	0.01960	mg/L	0.005984	0.03919 mg/L	0.011968	30.54%
As 188.979†	2.2	0.00156	mg/L	0.001526	0.00312 mg/L	0.003052	97.74%
B 249.677†	-32.8	-0.00254	mg/L	0.000176	-0.00507 mg/L	0.000351	6.93%
Ba 233.527†	-1.0	-0.00014	mg/L	0.000298	-0.00027 mg/L	0.000595	218.88%
Be 313.042†	-81.6	-0.00010	mg/L	0.000009	-0.00020 mg/L	0.000018	8.81%
Ca 317.933†	17.2	0.00113	mg/L	0.001897	0.00226 mg/L	0.003795	168.17%
Cd 228.802†	3.6	0.00012	mg/L	0.000158	0.00025 mg/L	0.000315	128.60%
Co 228.616†	-3.2	-0.00009	mg/L	0.000043	-0.00017 mg/L	0.000087	50.50%
Cr 267.716†	14.3	0.00172	mg/L	0.000909	0.00344 mg/L	0.001819	52.90%
Cu 324.752†	147.5	0.00044	mg/L	0.000064	0.00088 mg/L	0.000129	14.71%
Fe 273.955†	-28.0	-0.01512	mg/L	0.002128	-0.03023 mg/L	0.004255	14.07%
K 766.490†	-27.0	-0.01346	mg/L	0.015988	-0.02691 mg/L	0.031976	118.81%
Mg 279.077†	-7.3	-0.00455	mg/L	0.003610	-0.00910 mg/L	0.007220	79.36%
Mn 257.610†	-5.9	-0.00008	mg/L	0.000004	-0.00016 mg/L	0.000008	5.22%
Mo 202.031†	6.5	0.00034	mg/L	0.000100	0.00069 mg/L	0.000200	29.10%
Na 589.592†	800.5	0.04950	mg/L	0.002750	0.09900 mg/L	0.005500	5.56%
Na 330.237†	20.2	0.4284	mg/L	0.08317	0.8568 mg/L	0.16633	19.41%
Ni 231.604†	10.0	0.00248	mg/L	0.001367	0.00497 mg/L	0.002733	55.04%
Pb 220.353†	2.1	0.00031	mg/L	0.000738	0.00061 mg/L	0.001475	240.80%
Sb 206.836†	4.8	0.00142	mg/L	0.000688	0.00285 mg/L	0.001377	48.36%
Se 196.026†	-0.3	-0.00022	mg/L	0.001607	-0.00045 mg/L	0.003214	717.54%
Si 288.158†	9.8	0.00326	mg/L	0.000848	0.00652 mg/L	0.001696	26.01%
Sn 189.927†	1.4	0.00039	mg/L	0.001083	0.00079 mg/L	0.002166	275.48%
Sr 421.552†	111.1	0.00012	mg/L	0.000058	0.00024 mg/L	0.000116	47.96%
Ti 334.903†	4.3	0.00017	mg/L	0.000717	0.00034 mg/L	0.001434	420.83%
Tl 190.801†	2.0	0.00080	mg/L	0.001258	0.00160 mg/L	0.002516	156.90%
V 292.402†	23.1	0.00023	mg/L	0.000184	0.00046 mg/L	0.000368	79.88%
Zn 206.200†	10.7	0.00325	mg/L	0.000228	0.00650 mg/L	0.000457	7.03%

Sequence No.: 34

Sample ID: OW90

Dilution: 2X

Autosampler Location: 325

Date Collected: 5/6/2009 11:19:58 AM

Data Type: Original

Nebulizer Parameters: OW90 SWCC

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: OW90 SWCC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2519316.0	99.76 %		0.827			0.83%
ScR 361.383	400634.6	98.69 %		0.981			0.99%
Ag 328.068†	-65.6	-0.00030 mg/L		0.000032	-0.00061 mg/L	0.000063	10.40%
Al 308.215†	175518.1	68.17 mg/L		0.621	136.3 mg/L	1.24	0.91%
As 188.979†	105.7	0.06002 mg/L		0.002561	0.1200 mg/L	0.00512	4.27%
B 249.677†	2519.9	0.1952 mg/L		0.00183	0.3904 mg/L	0.00365	0.94%
Ba 233.527†	1231.9	0.1608 mg/L		0.00152	0.3216 mg/L	0.00303	0.94%
Be 313.042†	1526.0	0.00125 mg/L		0.000071	0.00251 mg/L	0.000141	5.64%
Ca 317.933†	380978.7	25.02 mg/L		0.331	50.03 mg/L	0.661	1.32%
Cd 228.802†	207.1	0.00724 mg/L		0.000371	0.01448 mg/L	0.000743	5.13%
Co 228.616†	1290.4	0.02572 mg/L		0.000174	0.05144 mg/L	0.000348	0.68%
Cr 267.716†	1464.3	0.1802 mg/L		0.00140	0.3604 mg/L	0.00281	0.78%
Cu 324.752†	45113.2	0.1392 mg/L		0.00135	0.2784 mg/L	0.00270	0.97%
Fe 273.955†	181801.9	98.22 mg/L		0.407	196.4 mg/L	0.81	0.41%
K 766.490†	23460.6	11.70 mg/L		0.129	23.40 mg/L	0.258	1.10%
Mg 279.077†	65005.1	40.50 mg/L		0.311	80.99 mg/L	0.622	0.77%
Mn 257.610†	65957.9	0.8819 mg/L		0.00653	1.764 mg/L	0.0131	0.74%
Mo 202.031†	146.5	0.00754 mg/L		0.000275	0.01509 mg/L	0.000551	3.65%
Na 589.592†	1058281.3	65.44 mg/L		1.014	130.9 mg/L	2.03	1.55%
Na 330.237†	3180.4	68.30 mg/L		0.734	136.6 mg/L	1.47	1.08%
Ni 231.604†	485.1	0.1200 mg/L		0.00184	0.2401 mg/L	0.00367	1.53%
Pb 220.353†	218.8	0.03637 mg/L		0.000619	0.07275 mg/L	0.001238	1.70%
Sb 206.836†	31.5	0.00905 mg/L		0.001375	0.01811 mg/L	0.002750	15.19%
Se 196.026†	-3.8	0.00829 mg/L		0.004736	0.01658 mg/L	0.009472	57.13%
Si 288.158†	5861.7	1.935 mg/L		0.0130	3.870 mg/L	0.0260	0.67%
Sn 189.927†	-9.3	0.00044 mg/L		0.001879	0.00088 mg/L	0.003758	426.90%
Sr 421.552†	211189.3	0.2296 mg/L		0.00353	0.4593 mg/L	0.00705	1.54%
Ti 334.903†	115811.7	4.652 mg/L		0.0453	9.305 mg/L	0.0905	0.97%
Tl 190.801†	-13.9	0.00339 mg/L		0.001689	0.00678 mg/L	0.003378	49.84%
V 292.402†	20151.8	0.1892 mg/L		0.00192	0.3784 mg/L	0.00385	1.02%
Zn 206.200†	1065.9	0.3238 mg/L		0.00329	0.6477 mg/L	0.00658	1.02%

Sequence No.: 35
 Sample ID: OW90 Q SWC
 Dilution: 2X

Autosampler Location: 326
 Date Collected: 5/6/2009 11:23:43 AM
 Data Type: Original

Handwritten: 5-6-09

Nebulizer Parameters: OW90 Q SWC
 Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: OW90 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2496131.8	98.84 %	0.637			0.64%
ScR 361.383	400498.5	98.66 %	0.936			0.95%
Ag 328.068†	-114.8	-0.00055 mg/L	0.000141	-0.00110 mg/L	0.000282	25.58%
Al 308.215†	141007.1	54.76 mg/L	0.358	109.5 mg/L	0.72	0.65%
As 188.979†	158.4	0.06357 mg/L	0.001521	0.1271 mg/L	0.00304	2.39%
B 249.677†	4540.4	0.3517 mg/L	0.00137	0.7035 mg/L	0.00273	0.39%
Ba 233.527†	1927.7	0.2569 mg/L	0.00160	0.5139 mg/L	0.00319	0.62%
Be 313.042†	1368.3	0.00107 mg/L	0.000059	0.00214 mg/L	0.000117	5.50%
Ca 317.933†	1549330.1	101.7 mg/L	0.67	203.5 mg/L	1.35	0.66%
Cd 228.802†	175.1	0.00567 mg/L	0.000228	0.01133 mg/L	0.000456	4.03%
Co 228.616†	1054.0	0.02058 mg/L	0.000145	0.04117 mg/L	0.000290	0.71%
Cr 267.716†	1172.1	0.1442 mg/L	0.00140	0.2883 mg/L	0.00279	0.97%
Cu 324.752†	52184.0	0.1596 mg/L	0.00165	0.3192 mg/L	0.00331	1.04%
Fe 273.955†	157819.1	85.26 mg/L	0.529	170.5 mg/L	1.06	0.62%
K 766.490†	19847.4	9.899 mg/L	0.0612	19.80 mg/L	0.122	0.62%
Mg 279.077†	52673.6	32.80 mg/L	0.182	65.60 mg/L	0.364	0.56%
Mn 257.610†	52107.4	0.6965 mg/L	0.00451	1.393 mg/L	0.0090	0.65%
Mo 202.031†	463.7	0.02359 mg/L	0.000126	0.04719 mg/L	0.000253	0.54%
Na 589.592†	1063634.8	65.77 mg/L	0.258	131.5 mg/L	0.52	0.39%
Na 330.237†	3207.3	68.03 mg/L	0.166	136.1 mg/L	0.33	0.24%
Ni 231.604†	373.1	0.09230 mg/L	0.001159	0.1846 mg/L	0.00232	1.26%
Pb 220.353†	1208.7	0.1757 mg/L	0.00089	0.3513 mg/L	0.00178	0.51%
Sb 206.836†	34.8	0.01031 mg/L	0.000809	0.02062 mg/L	0.001618	7.84%
Se 196.026†	-0.5	0.00957 mg/L	0.001279	0.01914 mg/L	0.002558	13.37%
Si 288.158†	7862.4	2.600 mg/L	0.0172	5.199 mg/L	0.0343	0.66%
Sn 189.927†	-17.8	0.00033 mg/L	0.000441	0.00067 mg/L	0.000882	131.75%
Sr 421.552†	848668.5	0.9228 mg/L	0.00198	1.846 mg/L	0.0040	0.21%
Ti 334.903†	99928.9	4.006 mg/L	0.0346	8.012 mg/L	0.0693	0.86%
Tl 190.801†	10.8	0.00864 mg/L	0.001178	0.01727 mg/L	0.002356	13.64%
V 292.402†	19788.8	0.1863 mg/L	0.00254	0.3726 mg/L	0.00507	1.36%
Zn 206.200†	1309.5	0.3958 mg/L	0.00178	0.7917 mg/L	0.00357	0.45%

Sequence No.: 36
Sample ID: OW90 E SWC

#5607

Autosampler Location: 327
Date Collected: 5/6/2009 11:27:15 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: OW90 E SWC

Analyte Back Pressure Flow
All 225.0 kPa 0.75 L/min

Mean Data: OW90 E SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2548018.7	100.9	%	1.29			1.27%
ScR 361.383	402651.8	99.19	%	2.778			2.80%
Ag 328.068†	-98.3	-0.00047	mg/L	0.000161	-0.00093	0.000321	34.43%
Al 308.215†	171341.0	66.55	mg/L	2.002	133.1	4.00	3.01%
As 188.979†	101.2	0.05542	mg/L	0.004981	0.1108	0.00996	8.99%
B 249.677†	1820.3	0.1410	mg/L	0.00446	0.2820	0.00892	3.16%
Ba 233.527†	1238.6	0.1628	mg/L	0.00481	0.3257	0.00962	2.95%
Be 313.042†	1324.7	0.00106	mg/L	0.000128	0.00211	0.000256	12.15%
Ca 317.933†	429258.0	28.19	mg/L	0.905	56.37	1.809	3.21%
Cd 228.802†	188.5	0.00655	mg/L	0.000205	0.01310	0.000410	3.13%
Co 228.616†	1171.6	0.02228	mg/L	0.000327	0.04455	0.000654	1.47%
Cr 267.716†	1280.5	0.1574	mg/L	0.00343	0.3149	0.00685	2.18%
Cu 324.752†	33589.6	0.1040	mg/L	0.00172	0.2080	0.00343	1.65%
Fe 273.955†	155355.8	83.93	mg/L	2.421	167.9	4.84	2.88%
K 766.490†	20606.5	10.28	mg/L	0.312	20.56	0.624	3.04%
Mg 279.077†	55819.4	34.77	mg/L	1.033	69.55	2.067	2.97%
Mn 257.610†	60168.4	0.8044	mg/L	0.02518	1.609	0.0504	3.13%
Mo 202.031†	141.2	0.00722	mg/L	0.000378	0.01445	0.000756	5.23%
Na 589.592†	831794.1	51.43	mg/L	1.647	102.9	3.29	3.20%
Na 330.237†	2500.7	53.84	mg/L	1.186	107.7	2.37	2.20%
Ni 231.604†	417.0	0.1032	mg/L	0.00092	0.2064	0.00185	0.89%
Pb 220.353†	149.8	0.02744	mg/L	0.000093	0.05488	0.000186	0.34%
Sb 206.836†	26.6	0.00781	mg/L	0.003136	0.01562	0.006273	40.16%
Se 196.026†	-0.8	0.00911	mg/L	0.002604	0.01822	0.005208	28.58%
Si 288.158†	7765.2	2.566	mg/L	0.0715	5.132	0.1429	2.79%
Sn 189.927†	-17.3	-0.00168	mg/L	0.000555	-0.00337	0.001109	32.92%
Sr 421.552†	220930.2	0.2402	mg/L	0.00806	0.4804	0.01613	3.36%
Ti 334.903†	118684.3	4.768	mg/L	0.1327	9.535	0.2654	2.78%
Tl 190.801†	-5.0	0.00504	mg/L	0.002465	0.01008	0.004929	48.90%
V 292.402†	18493.9	0.1735	mg/L	0.00259	0.3469	0.00517	1.49%
Zn 206.200†	999.2	0.3034	mg/L	0.00735	0.6068	0.01471	2.42%

Sequence No.: 37
 Sample ID: OW90 ~~F~~ SWC

Autosampler Location: 328
 Date Collected: 5/6/2009 11:31:00 AM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: OW90 ~~F~~ SWC

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: OW90 ~~F~~ SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2535876.0	100.4 %	%	0.77			0.77%
ScR 361.383	401518.8	98.91 %	%	0.665			0.67%
Ag 328.068†	-85.5	-0.00040	mg/L	0.000068	-0.00081	0.000136	16.90%
Al 308.215†	148723.0	57.76	mg/L	0.344	115.5	0.69	0.60%
As 188.979†	97.5	0.05379	mg/L	0.000947	0.1076	0.00189	1.76%
B 249.677†	2469.7	0.1913	mg/L	0.00320	0.3826	0.00640	1.67%
Ba 233.527†	1096.2	0.1440	mg/L	0.00196	0.2881	0.00391	1.36%
Be 313.042†	1254.5	0.00101	mg/L	0.000051	0.00202	0.000101	5.02%
Ca 317.933†	408010.6	26.79	mg/L	0.241	53.58	0.483	0.90%
Cd 228.802†	183.6	0.00638	mg/L	0.000175	0.01276	0.000349	2.74%
Co 228.616†	1029.0	0.01927	mg/L	0.000179	0.03854	0.000359	0.93%
Cr 267.716†	1102.8	0.1357	mg/L	0.00109	0.2714	0.00219	0.81%
Cu 324.752†	29766.9	0.09219	mg/L	0.000169	0.1844	0.00034	0.18%
Fe 273.955†	138753.3	74.96	mg/L	0.608	149.9	1.22	0.81%
K 766.490†	18912.5	9.433	mg/L	0.0815	18.87	0.163	0.86%
Mg 279.077†	49711.3	30.97	mg/L	0.222	61.93	0.444	0.72%
Mn 257.610†	52912.9	0.7074	mg/L	0.00477	1.415	0.0095	0.67%
Mo 202.031†	261.8	0.01365	mg/L	0.000287	0.02730	0.000575	2.10%
Na 589.592†	848515.0	52.47	mg/L	0.187	104.9	0.37	0.36%
Na 330.237†	2530.7	54.42	mg/L	0.611	108.8	1.22	1.12%
Ni 231.604†	364.5	0.09020	mg/L	0.000485	0.1804	0.00097	0.54%
Pb 220.353†	171.5	0.02955	mg/L	0.000960	0.05910	0.001920	3.25%
Sb 206.836†	24.8	0.00739	mg/L	0.001902	0.01478	0.003805	25.74%
Se 196.026†	2.7	0.01098	mg/L	0.001807	0.02195	0.003613	16.46%
Si 288.158†	6789.0	2.243	mg/L	0.0220	4.486	0.0439	0.98%
Sn 189.927†	-13.9	-0.00096	mg/L	0.000617	-0.00192	0.001235	64.32%
Sr 421.552†	211538.5	0.2300	mg/L	0.00074	0.4600	0.00147	0.32%
Ti 334.903†	107992.9	4.338	mg/L	0.0151	8.676	0.0301	0.35%
Tl 190.801†	-3.3	0.00484	mg/L	0.001553	0.00968	0.003106	32.10%
V 292.402†	17181.8	0.1612	mg/L	0.00109	0.3225	0.00219	0.68%
Zn 206.200†	856.3	0.2599	mg/L	0.00542	0.5199	0.01084	2.08%

Sequence No.: 38

Autosampler Location: 329

Sample ID: OW90 ADUP SWC

Date Collected: 5/6/2009 11:34:45 AM

Dilution: 2X

Data Type: Original

Nebulizer Parameters: OW90 ADUP SWC

Analyte Back Pressure Flow
All 224.0 kPa 0.75 L/min

Mean Data: OW90 ADUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2513665.9	99.53	%	0.494			0.50%
ScR 361.383	410533.3	101.1	%	0.67			0.67%
Ag 328.068†	-112.4	-0.00054	mg/L	0.000138	-0.00109	0.000276	25.46%
Al 308.215†	96686.3	37.55	mg/L	0.159	75.10	0.317	0.42%
As 188.979†	104.2	0.04949	mg/L	0.002353	0.09897	0.004706	4.76%
B 249.677†	768.8	0.05953	mg/L	0.001213	0.1191	0.00243	2.04%
Ba 233.527†	745.7	0.09788	mg/L	0.001603	0.1958	0.00321	1.64%
Be 313.042†	817.9	0.00061	mg/L	0.000035	0.00121	0.000071	5.86%
Ca 317.933†	753607.0	49.48	mg/L	0.467	98.96	0.934	0.94%
Cd 228.802†	91.4	0.00283	mg/L	0.000161	0.00565	0.000321	5.69%
Co 228.616†	813.7	0.01592	mg/L	0.000120	0.03183	0.000239	0.75%
Cr 267.716†	676.2	0.08324	mg/L	0.000422	0.1665	0.00084	0.51%
Cu 324.752†	17039.8	0.05321	mg/L	0.000546	0.1064	0.00109	1.03%
Fe 273.955†	96978.3	52.39	mg/L	0.371	104.8	0.74	0.71%
K 766.490†	11016.4	5.495	mg/L	0.0101	10.99	0.020	0.18%
Mg 279.077†	35010.3	21.81	mg/L	0.165	43.61	0.329	0.75%
Mn 257.610†	49108.3	0.6566	mg/L	0.00305	1.313	0.0061	0.46%
Mo 202.031†	145.3	0.00721	mg/L	0.000191	0.01441	0.000381	2.65%
Na 589.592†	419810.3	25.96	mg/L	0.150	51.92	0.300	0.58%
Na 330.237†	1268.0	27.14	mg/L	0.156	54.27	0.312	0.58%
Ni 231.604†	246.6	0.06103	mg/L	0.001177	0.1221	0.00235	1.93%
Pb 220.353†	52.8	0.01134	mg/L	0.000327	0.02268	0.000654	2.88%
Sb 206.836†	24.6	0.00751	mg/L	0.003702	0.01502	0.007403	49.30%
Se 196.026†	-4.2	0.00266	mg/L	0.001476	0.00532	0.002953	55.45%
Si 288.158†	5293.3	1.749	mg/L	0.0121	3.499	0.0243	0.69%
Sn 189.927†	-23.9	-0.00361	mg/L	0.001833	-0.00722	0.003665	50.76%
Sr 421.552†	224456.4	0.2441	mg/L	0.00146	0.4881	0.00292	0.60%
Ti 334.903†	76882.1	3.085	mg/L	0.0231	6.170	0.0462	0.75%
Tl 190.801†	12.9	0.00814	mg/L	0.002200	0.01627	0.004401	27.04%
V 292.402†	12854.8	0.1208	mg/L	0.00088	0.2415	0.00177	0.73%
Zn 206.200†	516.0	0.1557	mg/L	0.00169	0.3114	0.00338	1.08%

Sequence No.: 42

Autosampler Location: 7

Sample ID: CV ↓

Date Collected: 5/6/2009 11:48:35 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2515571.1	99.61	%	0.855			0.86%
ScR 361.383	404532.7	99.65	%	0.420			0.42%
Ag 328.068†	203028.8	1.014	mg/L	0.0097	1.014 mg/L	0.0097	0.95%
Al 308.215†	5368.1	2.055	mg/L	0.0191	2.055 mg/L	0.0191	0.93%
As 188.979†	2814.7	2.027	mg/L	0.0124	2.027 mg/L	0.0124	0.61%
B 249.677†	12426.0	0.9618	mg/L	0.00487	0.9618 mg/L	0.00487	0.51%
Ba 233.527†	7281.4	0.9951	mg/L	0.00642	0.9951 mg/L	0.00642	0.64%
Be 313.042†	811239.5	1.006	mg/L	0.0157	1.006 mg/L	0.0157	1.56%
Ca 317.933†	30914.8	2.030	mg/L	0.0341	2.030 mg/L	0.0341	1.68%
Cd 228.802†	26978.2	1.003	mg/L	0.0126	1.003 mg/L	0.0126	1.26%
Co 228.616†	38002.1	1.027	mg/L	0.0089	1.027 mg/L	0.0089	0.87%
Cr 267.716†	8497.8	1.022	mg/L	0.0071	1.022 mg/L	0.0071	0.70%
Cu 324.752†	346291.2	1.031	mg/L	0.0092	1.031 mg/L	0.0092	0.89%
Fe 273.955†	3711.5	1.993	mg/L	0.0058	1.993 mg/L	0.0058	0.29%
K 766.490†	39255.5	19.58	mg/L	0.256	19.58 mg/L	0.256	1.31%
Mg 279.077†	3295.8	2.059	mg/L	0.0159	2.059 mg/L	0.0159	0.77%
Mn 257.610†	72753.1	0.9740	mg/L	0.01566	0.9740 mg/L	0.01566	1.61%
Mo 202.031†	18756.8	0.9975	mg/L	0.01177	0.9975 mg/L	0.01177	1.18%
Na 589.592†	766771.7	47.41	mg/L	0.660	47.41 mg/L	0.660	1.39%
Na 330.237†	2307.0	48.88	mg/L	0.024	48.88 mg/L	0.024	0.05%
Ni 231.604†	3922.3	0.9722	mg/L	0.00154	0.9722 mg/L	0.00154	0.16%
Pb 220.353†	14570.7	2.051	mg/L	0.0199	2.051 mg/L	0.0199	0.97%
Sb 206.836†	6651.2	2.006	mg/L	0.0234	2.006 mg/L	0.0234	1.17%
Se 196.026†	2415.1	1.996	mg/L	0.0150	1.996 mg/L	0.0150	0.75%
Si 288.158†	6370.5	2.112	mg/L	0.0162	2.112 mg/L	0.0162	0.77%
Sn 189.927†	3531.9	1.005	mg/L	0.0103	1.005 mg/L	0.0103	1.02%
Sr 421.552†	926093.5	1.007	mg/L	0.0153	1.007 mg/L	0.0153	1.52%
Ti 334.903†	25468.4	1.021	mg/L	0.0229	1.021 mg/L	0.0229	2.24%
Tl 190.801†	4970.9	2.002	mg/L	0.0168	2.002 mg/L	0.0168	0.84%
V 292.402†	104901.8	1.014	mg/L	0.0106	1.014 mg/L	0.0106	1.04%
Zn 206.200†	3289.1	1.001	mg/L	0.0105	1.001 mg/L	0.0105	1.05%

Sequence No.: 43
 Sample ID: CB 4

Autosampler Location: 1
 Date Collected: 5/6/2009 11:52:08 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2534771.5	100.4 %	%	0.71			0.70%
ScR 361.383	402433.1	99.14 %	%	1.624			1.64%
Ag 328.068†	49.2	0.00025	mg/L	0.000294	0.00025 mg/L	0.000294	119.51%
Al 308.215†	52.8	0.02048	mg/L	0.005969	0.02048 mg/L	0.005969	29.15%
As 188.979†	3.0	0.00216	mg/L	0.004762	0.00216 mg/L	0.004762	220.25%
B 249.677†	-16.5	-0.00128	mg/L	0.000432	-0.00128 mg/L	0.000432	33.84%
Ba 233.527†	3.3	0.00046	mg/L	0.000564	0.00046 mg/L	0.000564	123.80%
Be 313.042†	-18.7	-0.00003	mg/L	0.000082	-0.00003 mg/L	0.000082	297.43%
Ca 317.933†	-45.9	-0.00301	mg/L	0.003624	-0.00301 mg/L	0.003624	120.22%
Cd 228.802†	32.3	0.00120	mg/L	0.000913	0.00120 mg/L	0.000913	75.99%
Co 228.616†	30.4	0.00082	mg/L	0.001156	0.00082 mg/L	0.001156	140.62%
Cr 267.716†	-10.5	-0.00126	mg/L	0.000820	-0.00126 mg/L	0.000820	64.95%
Cu 324.752†	230.1	0.00068	mg/L	0.000500	0.00068 mg/L	0.000500	73.17%
Fe 273.955†	-25.2	-0.01365	mg/L	0.003812	-0.01365 mg/L	0.003812	27.92%
K 766.490†	-9.9	-0.00494	mg/L	0.019508	-0.00494 mg/L	0.019508	394.87%
Mg 279.077†	-0.6	-0.00036	mg/L	0.005822	-0.00036 mg/L	0.005822	>999.9%
Mn 257.610†	13.0	0.00017	mg/L	0.000119	0.00017 mg/L	0.000119	68.35%
Mo 202.031†	13.8	0.00073	mg/L	0.001083	0.00073 mg/L	0.001083	147.62%
Na 589.592†	351.4	0.02173	mg/L	0.004863	0.02173 mg/L	0.004863	22.38%
Na 330.237†	11.4	0.2428	mg/L	0.62865	0.2428 mg/L	0.62865	258.96%
Ni 231.604†	4.7	0.00115	mg/L	0.002004	0.00115 mg/L	0.002004	173.74%
Pb 220.353†	3.6	0.00051	mg/L	0.001609	0.00051 mg/L	0.001609	315.44%
Sb 206.836†	1.5	0.00050	mg/L	0.002179	0.00050 mg/L	0.002179	434.68%
Se 196.026†	-1.6	-0.00133	mg/L	0.002947	-0.00133 mg/L	0.002947	222.38%
Si 288.158†	-3.5	-0.00115	mg/L	0.004672	-0.00115 mg/L	0.004672	405.03%
Sn 189.927†	5.9	0.00168	mg/L	0.001605	0.00168 mg/L	0.001605	95.62%
Sr 421.552†	130.0	0.00014	mg/L	0.000059	0.00014 mg/L	0.000059	42.00%
Ti 334.903†	15.1	0.00061	mg/L	0.000920	0.00061 mg/L	0.000920	151.96%
Tl 190.801†	6.4	0.00259	mg/L	0.002179	0.00259 mg/L	0.002179	84.25%
V 292.402†	131.7	0.00126	mg/L	0.001423	0.00126 mg/L	0.001423	112.73%
Zn 206.200†	1.6	0.00048	mg/L	0.000897	0.00048 mg/L	0.000897	188.60%

Sequence No.: 44

Autosampler Location: 332

Sample ID: ~~OW90-REF1-SWC~~ 22222

Date Collected: 5/6/2009 11:55:38 AM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: OW90 REF1 SWC

Analyte Back Pressure Flow
All 224.0 kPa 0.75 L/min

Mean Data: OW90 REF1 SWC

Table with 8 columns: Analyte, Mean Corrected Intensity, Calib. Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like SCA, ScR, Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn with their respective intensity, concentration, and RSD values.

Sequence No.: 39 *dup*
 Sample ID: OW90 A SWC

Autosampler Location: 330
 Date Collected: 5/6/2009 11:38:15 AM
 Data Type: Original

Dilution: 2X

 Nebulizer Parameters: OW90 A SWC

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

 Mean Data: OW90 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2568859.6	101.7 %	0.51			0.50%
ScR 361.383	405468.0	99.88 %	0.647			0.65%
Ag 328.068†	-55.6	-0.00026 mg/L	0.000061	-0.00052 mg/L	0.000122	23.61%
Al 308.215†	154383.1	59.96 mg/L	0.286	119.9 mg/L	0.57	0.48%
As 188.979†	102.6	0.05648 mg/L	0.005940	0.1130 mg/L	0.01188	10.52%
B 249.677†	3501.9	0.2713 mg/L	0.00312	0.5425 mg/L	0.00623	1.15%
Ba 233.527†	1275.3	0.1671 mg/L	0.00220	0.3342 mg/L	0.00440	1.32%
Be 313.042†	1340.4	0.00104 mg/L	0.000039	0.00208 mg/L	0.000079	3.78%
Ca 317.933†	436823.9	28.68 mg/L	0.240	57.36 mg/L	0.480	0.84%
Cd 228.802†	192.9	0.00671 mg/L	0.000122	0.01343 mg/L	0.000243	1.81%
Co 228.616†	1252.2	0.02537 mg/L	0.000145	0.05073 mg/L	0.000290	0.57%
Cr 267.716†	1272.8	0.1570 mg/L	0.00158	0.3141 mg/L	0.00317	1.01%
Cu 324.752†	59735.7	0.1825 mg/L	0.00138	0.3651 mg/L	0.00277	0.76%
Fe 273.955†	172900.4	93.41 mg/L	0.796	186.8 mg/L	1.59	0.85%
K 766.490†	21110.6	10.53 mg/L	0.035	21.06 mg/L	0.070	0.33%
Mg 279.077†	59286.6	36.93 mg/L	0.217	73.86 mg/L	0.434	0.59%
Mn 257.610†	71218.3	0.9523 mg/L	0.00528	1.905 mg/L	0.0106	0.55%
Mo 202.031†	295.7	0.01544 mg/L	0.000168	0.03089 mg/L	0.000336	1.09%
Na 589.592†	1071654.7	66.26 mg/L	0.272	132.5 mg/L	0.54	0.41%
Na 330.237†	3205.1	68.69 mg/L	0.508	137.4 mg/L	1.02	0.74%
Ni 231.604†	452.7	0.1120 mg/L	0.00133	0.2241 mg/L	0.00267	1.19%
Pb 220.353†	228.7	0.03663 mg/L	0.001022	0.07327 mg/L	0.002045	2.79%
Sb 206.836†	29.3	0.00860 mg/L	0.001030	0.01721 mg/L	0.002060	11.97%
Se 196.026†	-3.1	0.00832 mg/L	0.003600	0.01663 mg/L	0.007201	43.29%
Si 288.158†	5913.4	1.953 mg/L	0.0144	3.905 mg/L	0.0289	0.74%
Sn 189.927†	1.8	0.00356 mg/L	0.000313	0.00711 mg/L	0.000627	8.81%
Sr 421.552†	223097.0	0.2426 mg/L	0.00126	0.4852 mg/L	0.00252	0.52%
Ti 334.903†	107271.4	4.309 mg/L	0.0242	8.617 mg/L	0.0484	0.56%
Tl 190.801†	-3.0	0.00722 mg/L	0.001199	0.01444 mg/L	0.002399	16.61%
V 292.402†	19524.7	0.1834 mg/L	0.00062	0.3668 mg/L	0.00124	0.34%
Zn 206.200†	1306.1	0.3968 mg/L	0.00534	0.7937 mg/L	0.01067	1.34%

Sequence No.: 40
Sample ID: OW90 ASPK SWC

Autosampler Location: 331
Date Collected: 5/6/2009 11:41:46 AM
Data Type: Original

Dilution: 2X

** 5/6/09*

Nebulizer Parameters: OW90 ASPK SWC

Analyte Back Pressure Flow
All 224.0 kPa 0.75 L/min

Mean Data: OW90 ASPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Units	Std.Dev.	RSD
ScA 357.253	2540489.8	100.6 %	%	1.02				1.01%
ScR 361.383	409707.5	100.9 %	%	0.56				0.56%
Ag 328.068†	-64.3	-0.00030	mg/L	0.000033	-0.00061	mg/L	0.000066	10.92%
Al 308.215†	156478.0	60.77	mg/L	0.236	121.5	mg/L	0.47	0.39%
As 188.979†	107.8	0.06072	mg/L	0.005194	0.1214	mg/L	0.01039	8.55%
B 249.677†	3283.2	0.2543	mg/L	0.00144	0.5086	mg/L	0.00289	0.57%
Ba 233.527†	1229.2	0.1607	mg/L	0.00103	0.3215	mg/L	0.00205	0.64%
Be 313.042†	1337.9	0.00103	mg/L	0.000025	0.00206	mg/L	0.000051	2.47%
Ca 317.933†	420779.2	27.63	mg/L	0.083	55.26	mg/L	0.165	0.30%
Cd 228.802†	201.9	0.00702	mg/L	0.000257	0.01404	mg/L	0.000514	3.66%
Co 228.616†	1301.5	0.02667	mg/L	0.000334	0.05334	mg/L	0.000669	1.25%
Cr 267.716†	1296.6	0.1599	mg/L	0.00052	0.3199	mg/L	0.00104	0.33%
Cu 324.752†	61879.4	0.1890	mg/L	0.00157	0.3779	mg/L	0.00314	0.83%
Fe 273.955†	174466.7	94.25	mg/L	0.147	188.5	mg/L	0.29	0.16%
K 766.490†	21120.0	10.53	mg/L	0.086	21.07	mg/L	0.173	0.82%
Mg 279.077†	60262.7	37.54	mg/L	0.127	75.08	mg/L	0.255	0.34%
Mn 257.610†	72375.3	0.9678	mg/L	0.00473	1.936	mg/L	0.0095	0.49%
Mo 202.031†	294.0	0.01536	mg/L	0.000175	0.03073	mg/L	0.000350	1.14%
Na 589.592†	1058241.8	65.43	mg/L	0.280	130.9	mg/L	0.56	0.43%
Na 330.237†	3158.7	67.71	mg/L	0.330	135.4	mg/L	0.66	0.49%
Ni 231.604†	460.0	0.1138	mg/L	0.00447	0.2277	mg/L	0.00894	3.93%
Pb 220.353†	258.5	0.04089	mg/L	0.000723	0.08178	mg/L	0.001446	1.77%
Sb 206.836†	22.1	0.00642	mg/L	0.002748	0.01284	mg/L	0.005496	42.81%
Se 196.026†	-3.9	0.00776	mg/L	0.003491	0.01553	mg/L	0.006982	44.97%
Si 288.158†	5995.3	1.980	mg/L	0.0158	3.960	mg/L	0.0317	0.80%
Sn 189.927†	-0.7	0.00281	mg/L	0.000582	0.00562	mg/L	0.001163	20.69%
Sr 421.552†	216182.4	0.2351	mg/L	0.00079	0.4701	mg/L	0.00158	0.34%
Ti 334.903†	107663.5	4.325	mg/L	0.0158	8.649	mg/L	0.0317	0.37%
Tl 190.801†	-6.5	0.00592	mg/L	0.000955	0.01185	mg/L	0.001910	16.12%
V 292.402†	19857.1	0.1866	mg/L	0.00188	0.3732	mg/L	0.00377	1.01%
Zn 206.200†	1309.8	0.3980	mg/L	0.00363	0.7960	mg/L	0.00725	0.91%

Sequence No.: 41 ~~ASPL~~
 Sample ID: OW90 ~~MBISPK SWC~~

Autosampler Location: 332
 Date Collected: 5/6/2009 11:45:17 AM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: OW90 ~~MBISPK SWC~~

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: OW90 ~~MBISPK SWC~~

Analyte	Mean Corrected			Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Calib. Units		Conc.	Units		
ScA 357.253	2581911.6	102.2	%	0.75				0.73%
ScR 361.383	403427.7	99.38	%	0.733				0.74%
Ag 328.068†	92672.9	0.4627	mg/L	0.00544	0.9253	mg/L	0.01088	1.18%
Al 308.215†	185666.0	72.10	mg/L	0.743	144.2	mg/L	1.49	1.03%
As 188.979†	2867.7	2.043	mg/L	0.0150	4.085	mg/L	0.0300	0.73%
B 249.677†	3677.6	0.2841	mg/L	0.00203	0.5681	mg/L	0.00406	0.72%
Ba 233.527†	16122.8	2.197	mg/L	0.0128	4.393	mg/L	0.0256	0.58%
Be 313.042†	403821.1	0.5004	mg/L	0.00654	1.001	mg/L	0.0131	1.31%
Ca 317.933†	649780.6	42.67	mg/L	0.611	85.33	mg/L	1.222	1.43%
Cd 228.802†	13626.5	0.4972	mg/L	0.00699	0.9943	mg/L	0.01398	1.41%
Co 228.616†	19123.6	0.5078	mg/L	0.00528	1.016	mg/L	0.0106	1.04%
Cr 267.716†	5574.9	0.6740	mg/L	0.00399	1.348	mg/L	0.0080	0.59%
Cu 324.752†	223127.4	0.6692	mg/L	0.00879	1.338	mg/L	0.0176	1.31%
Fe 273.955†	187318.9	101.2	mg/L	1.23	202.4	mg/L	2.46	1.22%
K 766.490†	43447.2	21.67	mg/L	0.230	43.34	mg/L	0.460	1.06%
Mg 279.077†	78993.3	49.21	mg/L	0.588	98.43	mg/L	1.177	1.20%
Mn 257.610†	113401.4	1.517	mg/L	0.0168	3.034	mg/L	0.0336	1.11%
Mo 202.031†	308.3	0.01599	mg/L	0.000081	0.03199	mg/L	0.000162	0.51%
Na 589.592†	1257686.9	77.77	mg/L	0.757	155.5	mg/L	1.51	0.97%
Na 330.237†	3757.6	80.26	mg/L	0.322	160.5	mg/L	0.64	0.40%
Ni 231.604†	2394.2	0.5921	mg/L	0.00413	1.184	mg/L	0.0083	0.70%
Pb 220.353†	14001.5	1.977	mg/L	0.0170	3.953	mg/L	0.0340	0.86%
Sb 206.836†	44.8	0.00902	mg/L	0.001713	0.01804	mg/L	0.003426	18.99%
Se 196.026†	2352.3	1.955	mg/L	0.0220	3.911	mg/L	0.0439	1.12%
Si 288.158†	7234.8	2.390	mg/L	0.0203	4.780	mg/L	0.0406	0.85%
Sn 189.927†	-5.4	0.00237	mg/L	0.000591	0.00474	mg/L	0.001181	24.93%
Sr 421.552†	694237.1	0.7549	mg/L	0.00945	1.510	mg/L	0.0189	1.25%
Ti 334.903†	123320.3	4.952	mg/L	0.0527	9.905	mg/L	0.1053	1.06%
Tl 190.801†	4578.3	1.855	mg/L	0.0186	3.711	mg/L	0.0372	1.00%
V 292.402†	69626.0	0.6671	mg/L	0.00873	1.334	mg/L	0.0175	1.31%
Zn 206.200†	2988.8	0.9087	mg/L	0.00826	1.817	mg/L	0.0165	0.91%

Sequence No.: 45
Sample ID: OW90 MB1SPK SWC

Autosampler Location: 333
Date Collected: 5/6/2009 11:59:25 AM
Data Type: Original

Dilution: 2X

5-6-09

Nebulizer Parameters: OW90 MB1SPK SWC

Analyte Back Pressure Flow
All 225.0 kPa 0.75 L/min

User canceled analysis.

Analysis Begun

Start Time: 5/6/2009 12:02:36 PM
Logged In Analyst: metals
Spectrometer Model: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 5/6/2009 7:59:12 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0506.sif
Batch ID:
Results Data Set: I2090506
Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 44
Sample ID: OW90 REF1 SWC

Autosampler Location: 332
Date Collected: 5/6/2009 12:02:37 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: OW90 REF1 SWC

Analyte Back Pressure Flow
All 224.0 kPa 0.75 L/min

Mean Data: OW90 REF1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
SCA 357.253	2479399.6	98.18 %		0.692			0.70%
ScR 361.383	406052.0	100.0 %		0.96			0.95%
Ag 328.068†	227129.9	1.134 mg/L ✓		0.0064	2.268 mg/L	0.0128	0.56%
Al 308.215†	262625.3	102.0 mg/L		0.45	204.0 mg/L	0.90	0.44%
As 188.979†	2071.9	1.471 mg/L ✓		0.0097	2.941 mg/L	0.0194	0.66%
B 249.677†	15684.9	1.214 mg/L		0.0091	2.428 mg/L	0.0181	0.75%
Ba 233.527†	25006.3	3.407 mg/L		0.0330	6.814 mg/L	0.0659	0.97%
Be 313.042†	768936.5	0.9539 mg/L		0.00625	1.908 mg/L	0.0125	0.65%
Ca 317.933†	658362.5	43.23 mg/L		0.220	86.46 mg/L	0.439	0.51%
Cd 228.802†	20653.3	0.7679 mg/L ✓		0.00434	1.536 mg/L	0.0087	0.57%
Co 228.616†	30096.5	0.8090 mg/L		0.00498	1.618 mg/L	0.0100	0.62%
Cr 267.716†	6614.1	0.8037 mg/L ✓		0.00707	1.607 mg/L	0.0141	0.88%
Cu 324.752†	249390.0	0.7515 mg/L ✓		0.00508	1.503 mg/L	0.0102	0.68%
Fe 273.955†	292078.9	157.8 mg/L		1.38	315.6 mg/L	2.76	0.88%
K 766.490†	77975.3	38.89 mg/L		0.133	77.78 mg/L	0.267	0.34%
Mg 279.077†	49344.3	30.72 mg/L		0.320	61.43 mg/L	0.641	1.04%
Mn 257.610†	358323.7	4.795 mg/L		0.0116	9.589 mg/L	0.0232	0.24%
Mo 202.031†	9479.1	0.5038 mg/L		0.00305	1.008 mg/L	0.0061	0.60%
Na 589.592†	94974.2	5.872 mg/L		0.0380	11.74 mg/L	0.076	0.65%
Na 330.237†	326.5	6.471 mg/L		0.3932	12.94 mg/L	0.786	6.08%
Ni 231.604†	2295.5	0.5678 mg/L		0.01053	1.136 mg/L	0.0211	1.85%
Pb 220.353†	10094.4	1.428 mg/L ✓		0.0072	2.857 mg/L	0.0145	0.51%
Sb 206.836†	1884.3	0.5795 mg/L		0.00224	1.159 mg/L	0.0045	0.39%
Se 196.026†	2143.2	1.789 mg/L		0.0106	3.578 mg/L	0.0212	0.59%
Si 288.158†	8754.1	2.898 mg/L		0.0261	5.796 mg/L	0.0522	0.90%
Sn 189.927†	6599.7	1.877 mg/L		0.0110	3.753 mg/L	0.0219	0.58%
Sr 421.552†	535287.0	0.5820 mg/L		0.00458	1.164 mg/L	0.0092	0.79%
Ti 334.903†	73374.5	2.943 mg/L		0.0125	5.887 mg/L	0.0249	0.42%
Tl 190.801†	3310.9	1.349 mg/L		0.0038	2.697 mg/L	0.0077	0.28%
V 292.402†	98903.7	0.9498 mg/L		0.00402	1.900 mg/L	0.0080	0.42%
Zn 206.200†	6128.2	1.864 mg/L ✓		0.0167	3.729 mg/L	0.0333	0.89%

Sequence No.: 45

Autosampler Location: 333

Sample ID: OW90 MB1SPK SWC

Date Collected: 5/6/2009 12:05:25 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: OW90 MB1SPK SWC

Analyte	Back Pressure	Flow
All	224.0 kPa	0.75 L/min

Mean Data: OW90 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
SCA 357.253	2536179.7	100.4 %	0.42			0.42%
SCR 361.383	411742.5	101.4 %	1.69			1.67%
Ag 328.068†	99640.9	0.4974 mg/L	0.00171	0.9948 mg/L	0.00341	0.34%
Al 308.215†	5278.6	2.042 mg/L	0.0306	4.085 mg/L	0.0612	1.50%
As 188.979†	2864.6	2.060 mg/L	0.0132	4.121 mg/L	0.0264	0.64%
B 249.677†	17.2	0.00050 mg/L	0.000342	0.00099 mg/L	0.000683	68.70%
Ba 233.527†	14473.1	1.979 mg/L	0.0343	3.958 mg/L	0.0685	1.73%
Be 313.042†	399345.4	0.4954 mg/L	0.01592	0.9908 mg/L	0.03185	3.21%
Ca 317.933†	150001.1	9.849 mg/L	0.3134	19.70 mg/L	0.627	3.18%
Cd 228.802†	13731.1	0.5011 mg/L	0.00282	1.002 mg/L	0.0056	0.56%
Co 228.616†	18566.7	0.5025 mg/L	0.00290	1.005 mg/L	0.0058	0.58%
Cr 267.716†	4157.2	0.4993 mg/L	0.00628	0.9986 mg/L	0.01257	1.26%
Cu 324.752†	170154.3	0.5066 mg/L	0.00230	1.013 mg/L	0.0046	0.45%
Fe 273.955†	3662.5	1.972 mg/L	0.0357	3.945 mg/L	0.0715	1.81%
K 766.490†	19356.7	9.655 mg/L	0.2238	19.31 mg/L	0.448	2.32%
Mg 279.077†	16280.2	10.15 mg/L	0.159	20.30 mg/L	0.317	1.56%
Mn 257.610†	35923.5	0.4811 mg/L	0.01448	0.9622 mg/L	0.02896	3.01%
Mo 202.031†	26.7	0.00134 mg/L	0.000391	0.00269 mg/L	0.000781	29.10%
Na 589.592†	149059.1	9.217 mg/L	0.2409	18.43 mg/L	0.482	2.61%
Na 330.237†	457.7	9.464 mg/L	0.0943	18.93 mg/L	0.189	1.00%
Ni 231.604†	1923.5	0.4756 mg/L	0.01024	0.9512 mg/L	0.02048	2.15%
Pb 220.353†	14347.9	2.019 mg/L	0.0069	4.039 mg/L	0.0137	0.34%
Sb 206.836†	17.6	0.00123 mg/L	0.001495	0.00246 mg/L	0.002990	121.60%
Se 196.026†	2473.2	2.044 mg/L	0.0197	4.087 mg/L	0.0395	0.97%
Si 288.158†	17.3	0.00622 mg/L	0.000937	0.01244 mg/L	0.001875	15.07%
Sn 189.927†	-2.7	-0.00035 mg/L	0.002340	-0.00070 mg/L	0.004679	671.33%
Sr 421.552†	430521.4	0.4681 mg/L	0.01119	0.9362 mg/L	0.02238	2.39%
Ti 334.903†	64.8	0.00152 mg/L	0.000692	0.00303 mg/L	0.001385	45.70%
Tl 190.801†	4975.0	2.007 mg/L	0.0105	4.014 mg/L	0.0209	0.52%
V 292.402†	52725.6	0.5094 mg/L	0.00222	1.019 mg/L	0.0044	0.44%
Zn 206.200†	1570.6	0.4778 mg/L	0.00614	0.9557 mg/L	0.01229	1.29%

Sequence No.: 46
 Sample ID: CV

Autosampler Location: 7
 Date Collected: 5/6/2009 12:08:55 PM
 Data Type: Original

Dilution: 1X

 Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

 Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
ScA 357.253	2560347.9	101.4 %		0.27				0.27%
ScR 361.383	400465.0	98.65 %		0.676				0.69%
Ag 328.068†	192508.1	0.9610 mg/L		0.00568	0.9610 mg/L		0.00568	0.59%
Al 308.215†	5400.4	2.068 mg/L		0.0180	2.068 mg/L		0.0180	0.87%
As 188.979†	2775.3	1.999 mg/L		0.0042	1.999 mg/L		0.0042	0.21%
B 249.677†	12492.1	0.9669 mg/L		0.00711	0.9669 mg/L		0.00711	0.74%
Ba 233.527†	7289.3	0.9962 mg/L		0.00516	0.9962 mg/L		0.00516	0.52%
Be 313.042†	813182.0	1.009 mg/L		0.0060	1.009 mg/L		0.0060	0.60%
Ca 317.933†	30744.9	2.019 mg/L		0.0106	2.019 mg/L		0.0106	0.52%
Cd 228.802†	26199.8	0.9735 mg/L		0.00684	0.9735 mg/L		0.00684	0.70%
Co 228.616†	37459.5	1.012 mg/L		0.0041	1.012 mg/L		0.0041	0.41%
Cr 267.716†	8509.3	1.023 mg/L		0.0041	1.023 mg/L		0.0041	0.40%
Cu 324.752†	330677.3	0.9841 mg/L		0.00936	0.9841 mg/L		0.00936	0.95%
Fe 273.955†	3707.5	1.991 mg/L		0.0107	1.991 mg/L		0.0107	0.54%
K 766.490†	39837.2	19.87 mg/L		0.102	19.87 mg/L		0.102	0.51%
Mg 279.077†	3287.6	2.054 mg/L		0.0048	2.054 mg/L		0.0048	0.23%
Mn 257.610†	73121.6	0.9790 mg/L		0.00541	0.9790 mg/L		0.00541	0.55%
Mo 202.031†	18494.3	0.9836 mg/L		0.00479	0.9836 mg/L		0.00479	0.49%
Na 589.592†	773207.2	47.81 mg/L		0.234	47.81 mg/L		0.234	0.49%
Na 330.237†	2327.7	49.33 mg/L		0.030	49.33 mg/L		0.030	0.06%
Ni 231.604†	3914.7	0.9703 mg/L		0.00188	0.9703 mg/L		0.00188	0.19%
Pb 220.353†	14341.5	2.019 mg/L		0.0103	2.019 mg/L		0.0103	0.51%
Sb 206.836†	6562.7	1.979 mg/L		0.0117	1.979 mg/L		0.0117	0.59%
Se 196.026†	2386.4	1.972 mg/L		0.0084	1.972 mg/L		0.0084	0.43%
Si 288.158†	6387.8	2.117 mg/L		0.0092	2.117 mg/L		0.0092	0.43%
Sn 189.927†	3482.5	0.9911 mg/L		0.00344	0.9911 mg/L		0.00344	0.35%
Sr 421.552†	928954.5	1.010 mg/L		0.0049	1.010 mg/L		0.0049	0.49%
Ti 334.903†	25576.8	1.025 mg/L		0.0056	1.025 mg/L		0.0056	0.55%
Tl 190.801†	4889.7	1.969 mg/L		0.0080	1.969 mg/L		0.0080	0.40%
V 292.402†	100875.9	0.9748 mg/L		0.00564	0.9748 mg/L		0.00564	0.58%
Zn 206.200†	3286.7	1.000 mg/L		0.0046	1.000 mg/L		0.0046	0.46%

Sequence No.: 47
 Sample ID: CB

Autosampler Location: 1
 Date Collected: 5/6/2009 12:12:13 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 224.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
SCA 357.253	2582375.9	102.3 %	%	0.91			0.89%
SCR 361.383	413615.4	101.9 %	%	1.58			1.56%
Ag 328.068†	30.8	0.00015	mg/L	0.000383	0.00015 mg/L	0.000383	248.86%
Al 308.215†	58.3	0.02263	mg/L	0.004547	0.02263 mg/L	0.004547	20.09%
As 188.979†	4.1	0.00293	mg/L	0.003554	0.00293 mg/L	0.003554	121.30%
B 249.677†	-0.8	-0.00006	mg/L	0.000453	-0.00006 mg/L	0.000453	764.41%
Ba 233.527†	-0.1	-0.00002	mg/L	0.000565	-0.00002 mg/L	0.000565	>999.9%
Be 313.042†	-79.8	-0.00010	mg/L	0.000045	-0.00010 mg/L	0.000045	43.46%
Ca 317.933†	-56.5	-0.00371	mg/L	0.001070	-0.00371 mg/L	0.001070	28.86%
Cd 228.802†	20.9	0.00077	mg/L	0.001009	0.00077 mg/L	0.001009	131.84%
Co 228.616†	29.7	0.00080	mg/L	0.001182	0.00080 mg/L	0.001182	146.84%
Cr 267.716†	12.0	0.00145	mg/L	0.000871	0.00145 mg/L	0.000871	60.17%
Cu 324.752†	185.1	0.00055	mg/L	0.000672	0.00055 mg/L	0.000672	122.17%
Fe 273.955†	-24.0	-0.01296	mg/L	0.002242	-0.01296 mg/L	0.002242	17.30%
K 766.490†	-14.4	-0.00717	mg/L	0.020091	-0.00717 mg/L	0.020091	280.37%
Mg 279.077†	-6.9	-0.00432	mg/L	0.000322	-0.00432 mg/L	0.000322	7.45%
Mn 257.610†	-9.4	-0.00013	mg/L	0.000025	-0.00013 mg/L	0.000025	19.94%
Mo 202.031†	17.0	0.00091	mg/L	0.001244	0.00091 mg/L	0.001244	137.27%
Na 589.592†	129.4	0.00800	mg/L	0.001769	0.00800 mg/L	0.001769	22.12%
Na 330.237†	6.3	0.1330	mg/L	0.28266	0.1330 mg/L	0.28266	212.61%
Ni 231.604†	5.1	0.00125	mg/L	0.001297	0.00125 mg/L	0.001297	103.61%
Pb 220.353†	4.9	0.00070	mg/L	0.001745	0.00070 mg/L	0.001745	250.86%
Sb 206.836†	2.5	0.00074	mg/L	0.002489	0.00074 mg/L	0.002489	335.70%
Se 196.026†	2.6	0.00212	mg/L	0.002761	0.00212 mg/L	0.002761	130.52%
Si 288.158†	-4.6	-0.00153	mg/L	0.000918	-0.00153 mg/L	0.000918	59.92%
Sn 189.927†	4.2	0.00119	mg/L	0.000672	0.00119 mg/L	0.000672	56.54%
Sr 421.552†	83.1	0.00009	mg/L	0.000022	0.00009 mg/L	0.000022	24.00%
Ti 334.903†	-3.0	-0.00012	mg/L	0.000816	-0.00012 mg/L	0.000816	662.58%
Tl 190.801†	9.1	0.00369	mg/L	0.003803	0.00369 mg/L	0.003803	103.01%
V 292.402†	117.9	0.00114	mg/L	0.001298	0.00114 mg/L	0.001298	113.73%
Zn 206.200†	1.5	0.00046	mg/L	0.000858	0.00046 mg/L	0.000858	188.01%

Metals Analysis
Prep Logs

prepared
for

Geomatrix

Project: Former Custom Plywood Site, 10654.001

ARI JOB NO: OW90

prepared
by

Analytical Resources, Inc.

OW90:00591



SPIKING LOG

Analyst: DM Final Volume 50 Sample ID OW00 ASPX, MBSAK

Date: 5-4-09 Final Volume (Hg): _____

Prepcode:	ICP Routine	ICP No GFA	GFA
Spike Solution:	2515-6		
Standard No.:	1.0		
Vol Added (mL):			
Ag	50 ✓		2.0
Al	200	200	
As	200 ✓		10
Ba	200	200	
Be	50	50	
Ca	1000	1000	
Cd	50 ✓		2.0
Co	50	50	
Cr	50 ✓	50	
Cu	50 ✓	50	
Fe	200	200	
K	1000	1000	
Mg	1000	1000	
Mn	50	50	
Na	1000	1000	
Ni	50	50	
Pb	200 ✓		10
Se	200		10
Sr	50	50	
Tl	200		10
V	50	50	
Zn	50 ✓	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Tl	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

OW00 : 00502



Digestion Log

Analyst: DM

Date: 5-04-09

Matrix: Soil

Block Temp: 90°C

ARI Sample ID	Btl #	pH<2	Prep Code: <u>SNC</u>		Prep Code: <u>SNN</u>		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
OX22 A	1	-	1.054	50.0			
" MB	-	-	-				
" MBSPK	-	-	-				
OX49 A	2	-	1.009				
" MB1	-	-	-				
" MB1SPK	-	-	-				
OW90 A	2	-	1.060				
" ADP	2	-	1.060				
" ASPK	2	-	1.055				
" B	2	-	1.080				
" C	2	-	1.056				
" D	2	-	1.018				
" E	1	-	1.090				
" F	1	-	1.047				
" REF1	D053	-	1.005				
" MB1	-	-	-				
" MB1SPK	-	-	-	50.0			
OX29 A	1	-			1.041	50.0	
" B	1	-			1.034		
" C	1	-			1.003		
" MB	-	-			-		
" MBSPK	-	-			-	50.0	

Chemical/Reagent ID:

HNO₃: MP1667 / I4674 HCl: I4399 H₂O₂: I4647 Tube Lot #: A811L5095

Memo

To: Kathleen Goodman
From: Crystal Neirby
Tel:
Fax:
Date: August 3, 2009

Project: 10654
cc: Project File

**Subject: Former Custom Plywood Plant, Sediment Sampling
Summary Data Quality Review – SDG PD91**

This memorandum presents a summary data quality review for analyses of five composite samples which were composed of thirty-four primary sediment samples collected between September 3 and 8, 2008. The samples were submitted to Analytical Resources Inc. (ARI), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Tukwila, Washington. The samples were analyzed for the following analytes:

- Polychlorinated Biphenyls (PCBs) by PSDDA PCB analysis (equivalent to EPA 8082).

The samples associated with this sample delivery group (SDG) and a summary of the data quality review are presented in Table 1, attached.

The samples were frozen upon receipt at ARI and were stored frozen until approximately 24 hours prior to extraction.

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Final Quality Assurance Project Plan (QAPP), Attachment A2 of Appendix A of the Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, (AMEC, 2008) as well as the Puget Sound Protocol (PSP) for Quality Assurance and Quality Control (QAQC) (PSP, 1997).

Hold times, method blanks, standard reference materials (SRM) results, matrix spike/matrix spike duplicate (MS/MSD) results, surrogate recoveries, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in EPA documents (EPA, 2008) and the PSP QAQC document.

Samples were analyzed for PCBs by the method identified in the introduction to this report and were evaluated for the following criteria.

1. Holding Times – Acceptable

Samples were received frozen and were kept frozen at the laboratory until the samples were composited and extracted and analyzed. The samples were extracted within the 1 year holding time.

Memo
August 3, 2009
Page 2 of 3

2. Blanks – Acceptable
3. SRM – Acceptable
4. MS/MSD – Acceptable
5. Surrogates – Acceptable
6. Reporting Limits – Acceptable

OVERALL ASSESSMENT OF DATA

The ARI SDG PD91 is 100% complete. The data usability is based on EPA's guidance documents and the QAPP. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

REFERENCES

EPA (U.S. Environmental Protection Agency), 1995, Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), Third Edition, September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995; Final Update III, December 1996; Final Update IIIA, April 1998.

EPA, 2008, U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-08-001, June.

AMEC Geomatrix, 2008. Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, September.

Puget Sound Protocol: Recommended Quality Assurance Quality Control Guidelines for the Collection of Environmental Data in Puget Sound, April 1997.

Recommended Guidelines For Measuring Organic Compounds In Puget Sound Water, Sediment And Tissue Samples, Puget Sound Water Quality Authority, April 1997.

Recommended Guidelines For Measuring Metals In Puget Sound Marine Water, Sediment And Tissue Samples, Puget Sound Water Quality Authority, April 1997



Sample ID	Laboratory Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
Composite Group 1	PD91A	none			
Composite Group 2	PD91B	none			
Composite Group 3	PD91C	none			
Composite Group 4	PD91D	none			
Composite Group 5	PD91E	none			



Analytical Resources, Incorporated
Analytical Chemists and Consultants

8 July 2009

Rob Gilmour
AMEC, Inc.
3500 188th Street SW, Suite 600
Lynnwood, WA 98037-4763

RE: Project: Former Custom Plywood Site
ARI Job No.: PD91

Dear Rob:


Please find enclosed the final data package for the samples from the project referenced above. Analytical Resources, Inc. received these sediment samples on September 12, 2008. The samples were composited and analyzed for PCBs as requested on 6/12/09.

Problems associated with these analyses are discussed in the case narrative.

A copy of this package will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file PD91

MDH/mdh

Chain of Custody
Documentation

prepared
for

AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT, 10654.000

ARI JOB NO: PD91

prepared
by

Analytical Resources, Inc.

NP12

CHAIN OF CUSTODY

FROZEN

Place COC Form Number Label Here
 or write in seq. number below

Requested Analysis										
SMS List of COCs	Mercury (digest and hold)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive		

Checked by: RG

AMEC Geomatrix
 10654001
 COC Form
 Initials: RG
 Date: 9/3/08 Time: 1128

AMEC Geomatrix
 10654002
 COC Form
 Initials: RG
 Date: 9/3/08 Time: 1239

AMEC Geomatrix
 10654003
 COC Form
 Initials: RG
 Date: 9/3/08 Time: 1321

AMEC Geomatrix
 10654004
 COC Form
 Initials: GS
 Date: 9-3-08 Time: 1414

AMEC Geomatrix
 10654005
 COC Form
 Initials: GS
 Date: 9-3-08 Time: 1617

AMEC Geomatrix
 10654006
 COC Form
 Initials: GS
 Date: 9-3-08 Time: 1709

AMEC Geomatrix
 10654007
 COC Form
 Initials: GS
 Date: 9-3-08 Time: 1759

Date:										3	Number of containers
Time:	1	1									5
Date:										3	Number of containers
Time:	1	1									5
Date:										3	Number of containers
Time:	1	1									5
Date:										3	Number of containers
Time:	1	1									5
Date:										3	Number of containers
Time:	1	1									5
Date:										3	Number of containers
Time:	1	1									5

Laboratory/Analysis Comments

Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

*Mercury (digest and hold)
 Archive SMS COCs and Archives
 until notified.*

Relinquished By	Transported By	Received By
Name: <u>Kate Wolff</u>		Name: <u>Bob Gray</u>
Date: <u>9/12/08</u>		Date: <u>9/12/08</u>
Time: <u>10:45</u>		Time: <u>10:50</u>
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site
 Attn: Mark Harris

NP12

CHAIN OF CUSTODY

AR1

Place COC Form Number Label Here
or write in seq. number below.

Requested Analysis								
SMS List of COCs	Mercury (digest and ho	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive

Checked by: R.H.C.

AMEC Geomatrix
10654008
COC Form
Initials: GSM
Date: 9-4-08 Time: 8:20

Date:										
Time:	1	1							3	Number of containers
										5

AMEC Geomatrix
10654009
COC Form
Initials: GSM
Date: 9-4-08 Time: 9:37

Date:										
Time:	1	1							3	Number of containers
										5

AMEC Geomatrix
10654010
COC Form
Initials: GSM
Date: 9-4-08 Time: 10:19

Date:										
Time:	1	1							3	Number of containers
										5

AMEC Geomatrix
10654011
COC Form
Initials: GSM
Date: 9-4-08 Time: 10:59

Date:										
Time:	1	1							3	Number of containers
										5

AMEC Geomatrix
10654012
COC Form
Initials: GSM
Date: 9-4-08 Time: 11:39

Date:										
Time:	1	1							3	Number of containers
										5

AMEC Geomatrix
10654013
COC Form
Initials: GSM
Date: 9-4-08 Time: 13:04

Date:										
Time:	1	1							3	Number of containers
										5

AMEC Geomatrix
10654014
COC Form
Initials: GSM
Date: 9-4-08 Time: 13:41

Date:										
Time:	1	1							3	Number of containers
										5

Laboratory/Analysis Comments
Project Number 10654.001 Former Custom Plywood Site Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003 Cliff Whitmus 425-921-4023 Mercury (digest and hold). Hold and archive SMS COLS and archives until notified Former Custom Plywood Site

Relinquished By	Transported By	Received By
Name: <u>Kerrie Wolff</u>		Name: <u>Rob Gilmour</u>
Date: <u>9/12/08</u>		Date: <u>9/12/08 10:50</u>
Time: <u>10:45</u>		Time:
Name:		Name:
Date:		Date:
Time:		Time:

Project manager Mark Harris



Cooler Receipt Form

ARI Client: AMEC/GEOMATRIX
COC No: _____
Assigned ARI Job No: NP12

Project Name: FRMR. CUSTOM PLYWOOD SITE
Delivered by: HAND
Tracking No: _____

Preliminary Examination Phase:

- Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
- Were custody papers included with the cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.) YES NO
- Record cooler temperature (recommended 2.0-6.0 °C for chemistry) 6 COOLERS - ALL SAMPLES °C FROZEN

Cooler Accepted by: BC Date: 9/12/07 Time: 1050

Complete custody forms and attach all shipping documents

Log-In Phase:

- Was a temperature blank included in the cooler? YES NO
- What kind of packing material was used? None
- Was sufficient ice used (if appropriate)? YES NO
- Were all bottles sealed in individual plastic bags? YES NO
- Did all bottle arrive in good condition (unbroken)? YES NO
- Were all bottle labels complete and legible? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were all bottles used correct for the requested analyses? YES NO
- Do any of the analyses (bottles) require preservation? (attach preservation checklist) YES NO
- Were all VOC vials free of air bubbles? NA YES NO
- Was sufficient amount of sample sent in each bottle? YES NO

Samples Logged by: J Date: 9/16/08 Time: 914

**** Notify Project Manager of discrepancies or concerns ****

Explain discrepancies or negative responses:

By: _____ Date: _____

NP13

CHAIN OF CUSTODY

ARI

Place COC Form Number Label Here
 or write in seq. number below

Requested Analysis										
SMS List of COCs	Mercury (digest and hg)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive		

Checked by: RUC

AMEC Geomatrix
 10654015
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1419

AMEC Geomatrix
 10654016
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1456

AMEC Geomatrix
 10654017
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1530

AMEC Geomatrix
 10654018
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1635

AMEC Geomatrix
 10654019
 COC Form
 Initials: GSM
 Date: 9-4-08 Time: 1707

AMEC Geomatrix
 10654020
 COC Form
 Initials: GSM
 Date: 9-5-08 Time: 831

AMEC Geomatrix
 10654021
 COC Form
 Initials: GSM
 Date: 9-5-08 Time: 923

Date:											Number of containers
Time:	1	1								3	5
Date:											Number of containers
Time:	1	1								3	5
Date:											Number of containers
Time:	1	1								3	5
Date:											Number of containers
Time:	1	1								3	5
Date:											Number of containers
Time:	1	1								3	5
Date:											Number of containers
Time:	1	1								3	5

Laboratory/Analysis Comments

Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023

Mercury (digest and hold)
Hold and archive SMS COCs and
archives until notified.

Relinquished By	Transported By	Received By
Name: <u>Kate Wolff</u>		Name: <u>Bob Galt</u>
Date: <u>9/12/08</u>		Date: <u>9/12/08 1050</u>
Time: <u>10:45</u>		Time:
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site Project Manager Mark Harris

NP13

CHAIN OF CUSTODY

AR1

Place COC Form Number Label Here
 or write in seq. number below

Requested Analysis								
SMS List of COCs	Mercury (digest and hold)	TVS/TOC/TN/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive

Checked by: R 46

AMEC Geomatrix
 10654022
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1015

AMEC Geomatrix
 10654023
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1057

AMEC Geomatrix
 10654024
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1032

AMEC Geomatrix
 10654025
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1308

AMEC Geomatrix
 10654026
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1342

AMEC Geomatrix
 10654027
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1433

AMEC Geomatrix
 10654028
 COC Form
 Initials: CSM
 Date: 9-5-08 Time: 1520

Date:	Time:	Number of containers
	11	5
	11	5
	11	5
	11	5
	11	5
	11	5
	11	5

Laboratory/Analysis Comments
 Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023
 Mercury (digest and hold) -
 Hold and archive SMS COCs
 and archives until notified

Relinquished By	Transported By	Received By
Name: <u>Kate Wolff</u> Date: <u>9/12/08</u> Time: <u>10:45</u>		Name: <u>Rob Crofts</u> Date: <u>9/12/08</u> Time: <u>1050</u>
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site
 Project manager Mark Harris

NP13

CHAIN OF CUSTODY

ARI

Place COC Form Number Label Here
 or write in seq. number below

Requested Analysis								
SMS List of COCs	Mercury (digest and hold)	TVS/TOC/TS/NH4	Grainsize	Porewater Ammonia	Porewater Sulfide	Bioassay	Bioassay (Microtox)	Archive

Checked by: RHG

AMEC Geomatrix
 10654029
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 0827

Date:										
Time:	1	1							1	Number of containers
										3

AMEC Geomatrix
 10654030
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 904

Date:										
Time:	1	1							2	Number of containers
										4

AMEC Geomatrix
 10654031
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 903

Date:										
Time:	1	1							2	Number of containers
										4

AMEC Geomatrix
 10654032
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 946

Date:										
Time:	1	1							2	Number of containers
										4

AMEC Geomatrix
 10654033
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 1024

Date:										
Time:	1	1							2	Number of containers
										4

AMEC Geomatrix
 10654034
 COC Form
 Initials: CSM
 Date: 9-8-08 Time: 9122

Date:										
Time:	1	1							3	Number of containers
										5

Place Sample ID Label Here
 or Write ID Number Here

Date:										
Time:										Number of containers

Laboratory/Analysis Comments
 Project Number 10654.001
 Former Custom Plywood Site
 Project Manager Kathleen Goodman cell 425-301-2700 Office 206-342-1780
 Field Contact Rob Gilmour cell 206-940-7635 Office 425-921-4003
 Cliff Whitmus 425-921-4023
 Mercury (digest and hold)
 Archive SMS COCs and archives
 until notified

Relinquished By	Transported By	Received By
Name: <u>Lothe Wolff</u>		Name: <u>Big Conklus</u>
Date: <u>9/12/08</u>		Date: <u>9/12/08 10:50</u>
Time: <u>10:45</u>		Time:
Name:		Name:
Date:		Date:
Time:		Time:

Former Custom Plywood Site
 Proj Manager Mark Harris



Cooler Receipt Form

ARI Client: AMEC/GEOMATRIX
COC No: _____
Assigned ARI Job No: NP13

Project Name: FRMR. CANTON PLYWOOD SITE
Delivered by: HAND
Tracking No: _____

Preliminary Examination Phase:

- Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
- Were custody papers included with the cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.) YES NO
- Record cooler temperature (recommended 2.0-6.0 °C for chemistry) 6 COOLERS - ALL SAMPLES °C FROZEN

Cooler Accepted by: BC Date: 9/12/07 Time: 1050

Complete custody forms and attach all shipping documents

Log-In Phase:

- Was a temperature blank included in the cooler? YES NO
- What kind of packing material was used? None
- Was sufficient ice used (if appropriate)? YES NO
- Were all bottles sealed in individual plastic bags? YES NO
- Did all bottle arrive in good condition (unbroken)? YES NO
- Were all bottle labels complete and legible? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were all bottles used correct for the requested analyses? YES NO
- Do any of the analyses (bottles) require preservation? (attach preservation checklist) YES NO
- Were all VOC vials free of air bubbles? NA YES NO
- Was sufficient amount of sample sent in each bottle? YES NO

Samples Logged by: JL Date: 9/16/08 Time: 947

**** Notify Project Manager of discrepancies or concerns ****

Explain discrepancies or negative responses:

AMEC GMX 10654034 misses one 80z jar

By: JL Date: 9/16

Case Narrative

prepared
for

AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT, 10654.000

ARI JOB NO: PD91

prepared
by

Analytical Resources, Inc.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Case Narrative

Client: AMEC, Inc.

Project: Former Custom Plywood Site

Matrix: Sediment

ARI Job No: PD91

Date: July 8, 2009

PCBs Analysis

These analyses proceeded with out incident of note.

Data Summary Package

prepared
for

AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT, 10654.000

ARI JOB NO: PD91

prepared
by

Analytical Resources, Inc.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Case Narrative

Client: AMEC, Inc.
Project: Former Custom Plywood Site
Matrix: Sediment
ARI Job No: PD91
Date: July 8, 2009

PCBs Analysis

These analyses proceeded with out incident of note.

PCB ANALYSIS

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: COMPOSITE GROUP1
SAMPLE

Lab Sample ID: PD91A

LIMS ID: 09-14456

Matrix: Sediment

Data Release Authorized: *VTS*

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000

Date Sampled: 06/22/09

Date Received: 06/22/09

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 17:06

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: No

Percent Moisture: 28.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.2%
Tetrachlorometaxylene	80.9%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1



Sample ID: COMPOSITE GROUP2

SAMPLE

Lab Sample ID: PD91B

LIMS ID: 09-14457

Matrix: Sediment

Data Release Authorized: VTS

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT

10654.000

Date Sampled: 06/22/09

Date Received: 06/22/09

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 17:57

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: No

Percent Moisture: 54.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.0%
Tetrachlorometaxylene	78.6%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1



Sample ID: COMPOSITE GROUP3
SAMPLE

Lab Sample ID: PD91C

LIMS ID: 09-14458

Matrix: Sediment

Data Release Authorized: VTS

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT

10654.000

Date Sampled: 06/22/09

Date Received: 06/22/09

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 18:14

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: No

Percent Moisture: 52.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.2%
Tetrachlorometaxylene	78.4%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP4
SAMPLE**

Lab Sample ID: PD91D

LIMS ID: 09-14459

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000

Date Sampled: 06/22/09

Date Received: 06/22/09

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 18:32

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: No

Percent Moisture: 49.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.5%
Tetrachlorometaxylene	76.8%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP5
SAMPLE**

Lab Sample ID: PD91E

LIMS ID: 09-14460

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000

Date Sampled: 06/22/09

Date Received: 06/22/09

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 18:49

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: No

Percent Moisture: 42.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.0%
Tetrachlorometaxylene	76.6%

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: PD91-AMEC Geomatrix
Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000

<u>Client ID</u>	<u>DCBP % REC</u>	<u>DCBP LCL-UCL</u>	<u>TCMX % REC</u>	<u>TCMX LCL-UCL</u>	<u>TOT OUT</u>
MB-070109	81.5%	48-119	69.8%	47-110	0
LCS-070109	85.5%	48-119	72.5%	47-110	0
SRM SQ-1	86.2%	40-130	76.8%	46-113	0
COMPOSITE GROUP1	94.2%	40-130	80.9%	46-113	0
COMPOSITE GROUP1 MS	95.8%	40-130	79.5%	46-113	0
COMPOSITE GROUP1 MSD	96.5%	40-130	80.4%	46-113	0
COMPOSITE GROUP2	93.0%	40-130	78.6%	46-113	0
COMPOSITE GROUP3	89.2%	40-130	78.4%	46-113	0
COMPOSITE GROUP4	91.5%	40-130	76.8%	46-113	0
COMPOSITE GROUP5	89.0%	40-130	76.6%	46-113	0

PSDDA Control Limits
Prep Method: SW3550B
Log Number Range: 09-14456 to 09-14460

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
 Page 1 of 1

Sample ID: COMPOSITE GROUP1
MS/MSD

Lab Sample ID: PD91A
 LIMS ID: 09-14456
 Matrix: Sediment
 Data Release Authorized: *VTS*
 Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix
 Project: FORMER CUSTOM PLYWOOD PROJECT
 10654.000
 Date Sampled: 06/22/09
 Date Received: 06/22/09

Date Extracted MS/MSD: 07/01/09
 Date Analyzed MS: 07/03/09 17:23
 MSD: 07/03/09 17:40
 Instrument/Analyst MS: ECD5/JGR
 MSD: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Sample Amount MS: 25.3 g-dry-wt
 MSD: 25.6 g-dry-wt
 Final Extract Volume MS: 5.0 mL
 MSD: 5.0 mL
 Dilution Factor MS: 5.00
 MSD: 5.00
 Silica Gel: No
 Percent Moisture: 28.4%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 19.9 U	91.9	98.9	92.9%	94.3	97.7	96.5%	2.6%
Aroclor 1260	< 19.9 U	90.8	98.9	91.8%	94.2	97.7	96.4%	3.7%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP1
MATRIX SPIKE**

Lab Sample ID: PD91A

LIMS ID: 09-14456

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT

10654.000

Date Sampled: 06/22/09

Date Received: 06/22/09

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 17:23

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: No

Percent Moisture: 28.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	---
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	---
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.8%
Tetrachlorometaxylene	79.5%

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
 Page 1 of 1

Sample ID: COMPOSITE GROUP1
MATRIX SPIKE DUP

Lab Sample ID: PD91A
 LIMS ID: 09-14456
 Matrix: Sediment
 Data Release Authorized: **VTS**
 Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix
 Project: FORMER CUSTOM PLYWOOD PROJECT
 10654.000
 Date Sampled: 06/22/09
 Date Received: 06/22/09

Date Extracted: 07/01/09
 Date Analyzed: 07/03/09 17:40
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
 Final Extract Volume: 5.0 mL
 Dilution Factor: 5.00
 Silica Gel: No
 Percent Moisture: 28.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	---
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	---
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.5%
Tetrachlorometaxylene	80.4%

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
 Page 1 of 1

Sample ID: SRM SQ-1
STANDARD REFERENCE

Lab Sample ID: SRM SQ-1
 LIMS ID: 09-14456
 Matrix: Sediment
 Data Release Authorized: **VTS**
 Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix
 Project: FORMER CUSTOM PLYWOOD PROJECT
 10654.000
 Date Sampled: NA
 Date Received: NA

Date Extracted: 07/01/09
 Date Analyzed: 07/03/09 16:49
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 15.0 g-dry-wt
 Final Extract Volume: 5.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: 40.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	6.7	< 6.7 U
53469-21-9	Aroclor 1242	6.7	< 6.7 U
12672-29-6	Aroclor 1248	83	< 83 Y
11097-69-1	Aroclor 1254	6.7	160
11096-82-5	Aroclor 1260	6.7	< 6.7 U
11104-28-2	Aroclor 1221	6.7	< 6.7 U
11141-16-5	Aroclor 1232	6.7	< 6.7 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.2%
Tetrachlorometaxylene	76.8%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: LCS-070109

LAB CONTROL

Lab Sample ID: LCS-070109

LIMS ID: 09-14456

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000

Date Sampled: NA

Date Received: NA

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 16:31

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	79.9	100	79.9%
Aroclor 1260	87.7	100	87.7%

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	72.5%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

4
PCB METHOD BLANK SUMMARY

BLANK NO.

PD91MBS1

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No.: PD91
Lab Sample ID: PD91MBS1
Date Extracted: 07/01/09
Date Analyzed: 07/03/09
Time Analyzed: 1614

Client: AMEC GEOMATRIX
Project: FORMER CUSTOM PLYWOO
Lab File ID: 0703B021
Matrix: SOLID
Instrument ID: ECD5
GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	PD91LCSS1	PD91LCSS1	07/03/09
02	SQ-1	PD91SRM1	07/03/09
03	COMPOSITE GROUP1	PD91A	07/03/09
04	COMPOSITE GROUP MS	PD91AMS	07/03/09
05	COMPOSITE GROUP MSD	PD91AMSD	07/03/09
06	COMPOSITE GROUP2	PD91B	07/03/09
07	COMPOSITE GROUP3	PD91C	07/03/09
08	COMPOSITE GROUP4	PD91D	07/03/09
09	COMPOSITE GROUP5	PD91E	07/03/09

ALL RUNS ARE DUAL COLUMN

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: MB-070109

METHOD BLANK

Lab Sample ID: MB-070109

LIMS ID: 09-14456

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT

10654.000

Date Sampled: NA

Date Received: NA

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 16:14

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.0 g

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	Aroclor 1254	4.0	< 4.0 U
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.5%
Tetrachlorometaxylene	69.8%

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Woo suk Chang
Created: 6/24/09

Worklist: 6417
Analyst: RVR
Comments:

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	PD91A 09-14456 COMPOSITE GROUP1	1.16	12.08	8.98	71.6	NR
2.	PD91B 09-14457 COMPOSITE GROUP2	1.19	10.64	5.46	45.2	NR
3.	PD91C 09-14458 COMPOSITE GROUP3	1.18	11.27	5.95	47.3	NR
4.	PD91D 09-14459 COMPOSITE GROUP4	1.15	11.68	6.50	50.8	NR
5.	PD91E 09-14460 COMPOSITE GROUP5	1.17	11.27	7.01	57.8	NR
6.	PD91F 09-14461 10654007	1.16	11.66	5.65	42.8	NR

Laboratory Data Package

prepared
for

AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT, 10654.000

ARI JOB NO: PD91

prepared
by

Analytical Resources, Inc.



Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for



- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

06/16/2009

LABESOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.	
1	1612-4	PCB	20	ACETONE	06/08/10
2#	1472-3	BCOC PEST	10	ACETONE	NA
3	1579-3	PEST	02/04/20	ACETONE	09/23/09
4	1594-2	LOW PEST	0.2/0.4/2	ACETONE	09/23/09
5	1580-2	EPH	1500	MECL2	01/29/10
6	1559-2	PCP	12.5/125	ACETONE	11/05/09
7	1613-4	ABN	100	ACETONE	02/01/10
8	1566-1	TBT	2.5	MECL2	12/04/09
9	1567-3	PORE TBT	.125/.25	MECL2	12/04/09
10	1596-2	ABN ACID	100/200	MEOH	10/21/09
11	1591-1	TPHD	15000	ACETONE	03/26/10
12	1597-3	ABN BASE	200	ACETONE	02/05/10
13	1613-1	LOW PCB	2	ACETONE	06/08/10
14*	1547-1	LOW ABN ACID	10/20	MEOH	04/10/10
15	1591-3	SIM PNA	15/75	MEOH	08/28/09
16	1602-3	DIOXANE	100	MEOH	03/20/10
17#	1516-2	1248 PCB	20	ACETONE	NA
18	1591-4	LOW SIM PNA	1.5	ACETONE	08/28/09
19	1574-4	AK103	7500	MECL2	12/02/09
20	1572-2	PNA	100	ACETONE	12/26/09
21	1593-3	SKY/BHT	100	MEOH	03/31/10
22	1603-1	HERB	12.5/12500	MEOH	08/18/09
23*	1505-1	LW ABN BASE	20	MEOH	03/20/10
24	1613-2	LOW ABN	10	ACETONE	02/28/10
25#	1481-1	DIPHENYL	100	MEOH	NA
26*	1545-2	OP-PEST	25	MEOH	02/16/10
27#	1495-1	STEROLS	200	MEOH	NA
28	1595-1	ADD. PEST	4	ACETONE	09/15/09
29#	1496-3	DECANES	100	MEOH	NA
30	1604-2	EDB/DBCP	0.1	HEXANE	05/20/10
31	1596-1	TERPINEOL	100	MEOH	04/03/10

LCS SOLUTIONS

06/16/2009

32	1598-1	GUAIACOL	50-200	ACETONE	04/30/10
33		NOT IN USE			
34	1530-2	CONGENERS	1	ACETONE	07/23/09
35	1601-2	ALKYL PNA A	10	MEOH	04/03/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1571-1	FULL RESIN	250	ACETONE	06/10/09
51	1611-3	DDTS	2.5	ACETONE	06/04/10
52#	1613-5	1232 PCB	20	ACETONE	06/16/10
		*=REVERIFIED SOLUTION			
		#=PROJECT SPECIFIC SOLUTION			

SURR SOLUTIONS

06/16/2009

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1584-5	ABN	100/150	MEOH	02/18/10
B	1572-1	SIM PNA	15/75	MEOH	08/28/09
C*	1559-1	SIM ABN	25/37.5	MEOH	03/13/10
D	1612-3	LOW PCB	0.2	ACETONE	05/29/10
E*	1478-1	HERB	62.5	MEOH	09/21/09
F	1574-3	PCP	12.5	ACETONE	01/06/10
G	1602-2	1,4DIOXANE	100	MEOH	03/20/10
H	1594-1	OP-PEST	25	MEOH	04/01/10
I	1559-4	LOW S. PNA	1.5	MEOH	08/28/09
J	1566-5	TBT-PORE	0.125	MECL2	12/04/09
K	1612-1	MED PCB	20	ACETONE	05/29/10
L	1584-4	TBT	2.5	MECL2	12/04/09
M	1578-1	EPH	1500	MECL2	12/09/09
N	1612-2	PCB	2	ACETONE	05/29/10
O	1606-2	TPH	450	MECL2	01/07/10
P	1598-2	HCID	2250	MECL2	01/07/10
Q	1604-5	EDB	2	HEXANE	05/22/10
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	1568-5	PBDE	.25	MEOH	12/11/09
T	1601-1	ALKYL PNA	10	MEOH	11/26/09
U	* = VERIFIED SOLUTION				
V					
W					
X					
Y					
Z					

PCB Analysis
QC Summary Data

prepared
for

AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT, 10654.000

ARI JOB NO: PD91

prepared
by

Analytical Resources, Inc.

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: PD91-AMEC Geomatrix
Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000

<u>Client ID</u>	<u>DCBP % REC</u>	<u>DCBP LCL-UCL</u>	<u>TCMX % REC</u>	<u>TCMX LCL-UCL</u>	<u>TOT</u>	<u>OUT</u>
MB-070109	81.5%	48-119	69.8%	47-110	0	
LCS-070109	85.5%	48-119	72.5%	47-110	0	
SRM SQ-1	86.2%	40-130	76.8%	46-113	0	
COMPOSITE GROUP1	94.2%	40-130	80.9%	46-113	0	
COMPOSITE GROUP1 MS	95.8%	40-130	79.5%	46-113	0	
COMPOSITE GROUP1 MSD	96.5%	40-130	80.4%	46-113	0	
COMPOSITE GROUP2	93.0%	40-130	78.6%	46-113	0	
COMPOSITE GROUP3	89.2%	40-130	78.4%	46-113	0	
COMPOSITE GROUP4	91.5%	40-130	76.8%	46-113	0	
COMPOSITE GROUP5	89.0%	40-130	76.6%	46-113	0	

PSDDA Control Limits

Prep Method: SW3550B

Log Number Range: 09-14456 to 09-14460

FORM-II SW8082

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP1
MS/MSD**

Lab Sample ID: PD91A
LIMS ID: 09-14456
Matrix: Sediment
Data Release Authorized: *VTS*
Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix
Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000
Date Sampled: 06/22/09
Date Received: 06/22/09

Date Extracted MS/MSD: 07/01/09
Date Analyzed MS: 07/03/09 17:23
MSD: 07/03/09 17:40
Instrument/Analyst MS: ECD5/JGR
MSD: ECD5/JGR

Sample Amount MS: 25.3 g-dry-wt
MSD: 25.6 g-dry-wt
Final Extract Volume MS: 5.0 mL
MSD: 5.0 mL
Dilution Factor MS: 5.00
MSD: 5.00
Silica Gel: No

GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Percent Moisture: 28.4%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 19.9 U	91.9	98.9	92.9%	94.3	97.7	96.5%	2.6%
Aroclor 1260	< 19.9 U	90.8	98.9	91.8%	94.2	97.7	96.4%	3.7%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: LCS-070109

LAB CONTROL

Lab Sample ID: LCS-070109

LIMS ID: 09-14456

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT

10654.000

Date Sampled: NA

Date Received: NA

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 16:31

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	79.9	100	79.9%
Aroclor 1260	87.7	100	87.7%

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	72.5%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

4
PCB METHOD BLANK SUMMARY

BLANK NO.

PD91MBS1

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No.: PD91
Lab Sample ID: PD91MBS1
Date Extracted: 07/01/09
Date Analyzed: 07/03/09
Time Analyzed: 1614

Client: AMEC GEOMATRIX
Project: FORMER CUSTOM PLYWOO
Lab File ID: 0703B021
Matrix: SOLID
Instrument ID: ECD5
GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	PD91LCSS1	PD91LCSS1	07/03/09
02	SQ-1	PD91SRM1	07/03/09
03	COMPOSITE GROUP1	PD91A	07/03/09
04	COMPOSITE GROUP MS	PD91AMS	07/03/09
05	COMPOSITE GROUP MSD	PD91AMSD	07/03/09
06	COMPOSITE GROUP2	PD91B	07/03/09
07	COMPOSITE GROUP3	PD91C	07/03/09
08	COMPOSITE GROUP4	PD91D	07/03/09
09	COMPOSITE GROUP5	PD91E	07/03/09

ALL RUNS ARE DUAL COLUMN

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 06/18/09

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

				IS1 AREA	RT	IS2 AREA	RT
=====				=====	=====	=====	=====
ICAL MIDPT				29940727	1.513	11475718	11.162
UPPER LIMIT				59881454	1.613	22951436	11.262
LOWER LIMIT				14970364	1.413	5737859	11.062
=====				=====	=====	=====	=====
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
=====							
01	IB	06/18/09	1642	30353085	1.524	11348250	11.162
02	AR1232 250	06/18/09	1700	29940727	1.513	11475718	11.162
03	AR1232 20	06/18/09	1717	30029260	1.517	11564782	11.162
04	AR1232 1000	06/18/09	1734	30456593	1.539	11580655	11.162
05	AR1232 100	06/18/09	1751	30368885	1.525	11811005	11.162
06	AR1232 500	06/18/09	1808	30707611	1.528	12026451	11.162
07	0.25 PPM AR1	06/18/09	1826	30797009	1.521	12091267	11.162
08	0.02 PPM AR1	06/18/09	1843	30289434	1.537	11967393	11.162
09	1 PPM AR1660	06/18/09	1900	31189539	1.520	12625989	11.162
10	0.1 PPM AR16	06/18/09	1918	30023155	1.522	11821688	11.162
11	0.5 PPM AR16	06/18/09	1935	31239323	1.530	12303836	11.160
12	ZZZZZ	06/18/09	1952	30611969	1.527	12581787	11.161
13	AR1242	06/18/09	2010	31547490	1.526	12664418	11.161
14	AR1248	06/18/09	2027	31385486	1.528	12648939	11.161
15	AR1254	06/18/09	2044	30980559	1.517	12451687	11.161
16	AR2162	06/18/09	2102	30251036	1.530	12315314	11.160
17	AR3268	06/18/09	2119	31543183	1.517	12926516	11.160
18	AR1248	07/03/09	1540	26114400	1.546	11312050	11.174
19	AR1660	07/03/09	1557	22609218	1.549	10252624	11.175
20	PD91MBS1	07/03/09	1614	31938131	1.544	14883194	11.175
21	PD91LCSS1	07/03/09	1631	32423353	1.547	15047022	11.175
22	SQ-1	07/03/09	1649	32349519	1.542	14033865	11.174
23	COMPOSITE GR PD91A	07/03/09	1706	31856498	1.545	14880345	11.175
24	COMPOSITE GR PD91AMS	07/03/09	1723	31936018	1.546	14705862	11.174
25	COMPOSITE GR PD91AMSD	07/03/09	1740	31962616	1.547	14731733	11.174
26	COMPOSITE GR PD91B	07/03/09	1757	31117031	1.541	14266835	11.174
27	COMPOSITE GR PD91C	07/03/09	1814	31464960	1.545	14443913	11.174
28	COMPOSITE GR PD91D	07/03/09	1832	31941031	1.544	14772680	11.175
29	COMPOSITE GR PD91E	07/03/09	1849	31917127	1.545	14896491	11.175
30	AR1242	07/03/09	1906	26257008	1.546	12200661	11.176
31	AR1660	07/03/09	1923	22708771	1.550	11017090	11.175

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 06/18/09

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

				IS1 AREA	RT	IS2 AREA	RT
=====				=====	=====	=====	=====
ICAL MIDPT				29694923	2.782	10677479	12.124
UPPER LIMIT				59389846	2.882	21354958	12.224
LOWER LIMIT				14847462	2.682	5338740	12.024
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
=====				=====	=====	=====	=====
01	IB	06/18/09	1642	30437848	2.785	10687181	12.124
02	AR1232 250	06/18/09	1700	29694923	2.782	10677479	12.124
03	AR1232 20	06/18/09	1717	30653654	2.779	10755261	12.123
04	AR1232 1000	06/18/09	1734	30109797	2.792	10797197	12.123
05	AR1232 100	06/18/09	1751	30665576	2.785	10894287	12.124
06	AR1232 500	06/18/09	1808	30755893	2.787	11020221	12.124
07	0.25 PPM AR1	06/18/09	1826	31223103	2.782	11173293	12.124
08	0.02 PPM AR1	06/18/09	1843	30944283	2.793	10897856	12.123
09	1 PPM AR1660	06/18/09	1900	32824690	2.782	11659261	12.124
10	0.1 PPM AR16	06/18/09	1918	31232934	2.783	11010078	12.122
11	0.5 PPM AR16	06/18/09	1935	31794094	2.789	11334893	12.123
12	ZZZZZ	06/18/09	1952	31935319	2.785	11509748	12.122
13	AR1242	06/18/09	2010	32576856	2.787	11665821	12.123
14	AR1248	06/18/09	2027	32445350	2.785	11647195	12.121
15	AR1254	06/18/09	2044	31896487	2.781	11427067	12.122
16	AR2162	06/18/09	2102	31356721	2.788	11365031	12.123
17	AR3268	06/18/09	2119	32040883	2.779	11812369	12.122
18	AR1248	07/03/09	1540	29125972	2.804	11045293	12.126
19	AR1660	07/03/09	1557	25853169	2.808	9276275	12.126
20	PD91MBS1	07/03/09	1614	36930912	2.802	14722818	12.128
21	PD91LCSS1	07/03/09	1631	36856280	2.808	14841433	12.127
22	SQ-1	07/03/09	1649	31460226	2.806	14590371	12.126
23	COMPOSITE GR PD91A	07/03/09	1706	35383540	2.805	15308307	12.127
24	COMPOSITE GR PD91AMS	07/03/09	1723	34613154	2.804	14939682	12.126
25	COMPOSITE GR PD91AMSD	07/03/09	1740	35544364	2.806	15043180	12.126
26	COMPOSITE GR PD91B	07/03/09	1757	34421221	2.802	14980971	12.127
27	COMPOSITE GR PD91C	07/03/09	1814	34614599	2.805	15116821	12.127
28	COMPOSITE GR PD91D	07/03/09	1832	36081045	2.805	15135306	12.126
29	COMPOSITE GR PD91E	07/03/09	1849	35739182	2.809	15130959	12.127
30	AR1242	07/03/09	1906	29259292	2.804	11925492	12.127
31	AR1660	07/03/09	1923	25577020	2.808	10695366	12.127

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

PCB Analysis
Sample Data

prepared
for

AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT, 10654.000

ARI JOB NO: PD91

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP1
SAMPLE**

Lab Sample ID: PD91A
LIMS ID: 09-14456
Matrix: Sediment
Data Release Authorized: *VTS*
Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix
Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000
Date Sampled: 06/22/09
Date Received: 06/22/09

Date Extracted: 07/01/09
Date Analyzed: 07/03/09 17:06
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No
Percent Moisture: 28.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.2%
Tetrachlorometaxylene	80.9%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B024.d
Data file 2: 20090618.B/0703-2.b/0703B024.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91A
Client ID: COMPOSITE GROUP1
Injection Date: 03-JUL-2009 17:06
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 5.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.226	0.002	2919100	4.703	-0.003	3018308	6.1	6.5	5.2	Tetrachloro-m-xylene
10.930	0.002	2439892	11.507	0.002	1852154	7.5	6.6	13.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	76.8	80.9
Decachlorobiphenyl	94.2	81.9

7/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31856498	3.4
Hexabromobiphenyl	12091267	14880345	23.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	35383540	13.3
Hexabromobiphenyl	11173293	15308307	37.0

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.704	-0.033	73254	7.0	1	6.290	0.008	2440805	150.9	
Aroclor-1016	2	6.184	0.074	56986	1.7	2	6.843	-0.022	26914	0.8	
Aroclor-1016	3	---	---	---	0.0	3	7.073	0.009	45416	3.5	
Aroclor-1016	4	---	---	---	0.0	4	7.218	-0.009	72004	8.7	
CollAve: <3 Quant Peaks					Col2Ave: 41.0						
Aroclor-1221	1	---	---	---	0.0	1	5.276	-0.012	77788	15.3	
Aroclor-1221	2	---	---	---	0.0	2	5.472	-0.042	58905	19.2	
Aroclor-1221	3	---	---	---	0.0	3	5.590	-0.030	132317	14.0	
Aroclor-1221	NS	---	---	---	---	4	7.073	0.028	45416	37.6	
CollAve: <3 Quant Peaks					Col2Ave: 21.5						
Aroclor-1232	1	---	---	---	0.0	1	5.590	-0.013	132317	16.2	
Aroclor-1232	2	5.704	-0.008	73254	15.4	2	6.290	0.039	2440805	308.1	
Aroclor-1232	3	6.184	0.093	56986	4.0	3	6.843	0.007	26914	1.8	
Aroclor-1232	4	---	---	---	0.0	4	7.073	0.035	45416	8.0	
CollAve: <3 Quant Peaks					Col2Ave: 83.5						
Aroclor-1242	1	5.704	-0.032	73254	9.3	1	6.290	0.007	2440805	205.7	
Aroclor-1242	2	6.184	0.075	56986	2.3	2	6.843	-0.020	26914	1.1	
Aroclor-1242	3	---	---	---	0.0	3	7.073	0.010	45416	4.8	
Aroclor-1242	4	7.342	-0.014	169402	20.2	4	7.980	0.009	52638	11.6	
Total CollAve (3 peaks):				10.6	Total Col2Ave (4 peaks):				55.8	RPD = 136*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				5.9		
Aroclor-1248	1	6.184	0.074	56986	3.6	1	6.843	-0.012	26914	1.7	
Aroclor-1248	2	6.541	-0.033	963177	88.0	2	7.308	0.007	81650	8.5	
Aroclor-1248	3	---	---	---	0.0	3	7.634	-0.038	1415092	116.0	
Aroclor-1248	4	7.413	0.003	68862	3.7	4	8.031	0.004	144960	9.2	
Total CollAve (3 peaks):				31.8	Total Col2Ave (4 peaks):				33.8	RPD = 6	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				6.5		
Aroclor-1254	1	7.670	-0.001	37249	1.7	1	8.264	0.001	217647	12.1	
Aroclor-1254	2	7.990	0.013	96717	6.9	2	8.660	-0.008	173834	13.9	
Aroclor-1254	3	8.085	0.000	58851	2.2	3	8.801	0.022	181838	7.4	
Aroclor-1254	4	8.350	0.001	38425	1.4	4	8.945	0.004	294271	10.6	
Aroclor-1254	5	8.575	-0.050	26978	1.6	5	9.331	-0.005	181945	10.3	
Total CollAve (5 peaks):				2.8	Total Col2Ave (5 peaks):				10.9	RPD = 119*	
Corrected Ave (4 peaks):				1.7	Corrected Ave (4 peaks):				10.1	RPD = 142*	
Aroclor-1260	1	9.019	0.008	89571	6.4	1	9.587	0.044	106427	8.3	
Aroclor-1260	2	---	---	---	0.0	2	10.029	0.005	152989	4.2	
Aroclor-1260	3	9.485	0.000	83258	2.5	3	10.371	-0.008	34270	3.9	
Aroclor-1260	4	9.728	-0.038	144727	8.4	4	10.468	0.044	92189	4.2	
Aroclor-1260	5	9.921	0.033	60775	6.9	NS	---	---	---	---	
Total CollAve (4 peaks):				6.1	Total Col2Ave (4 peaks):				5.1	RPD = 16	
Corrected Ave (3 peaks):				5.3	Corrected Ave (3 peaks):				4.1	RPD = 25	
Aroclor-1262	1	9.128	-0.090	75883	3.9	1	9.864	0.011	126786	5.7	
Aroclor-1262	2	9.485	0.018	83258	1.8	2	10.029	0.012	152989	3.2	
Aroclor-1262	3	9.728	-0.091	144727	7.5	3	10.371	0.000	34270	1.8	
Aroclor-1262	4	9.921	0.050	60775	3.0	4	---	---	---	0.0	
Aroclor-1262	5	10.306	-0.003	266603	16.6	5	10.841	0.045	461286	31.2	
Total CollAve (5 peaks):				6.6	Total Col2Ave (4 peaks):				10.5	RPD = 46*	
Corrected Ave (4 peaks):				4.0	Corrected Ave (3 peaks):				3.6	RPD = 12	
Aroclor-1268	1	9.921	0.070	60775	1.1	1	10.304	-0.008	118887	2.4	
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1268	3	10.100	-0.040	48450	1.2	3	10.692	0.004	367399	11.1	
Aroclor-1268	4	10.672	-0.016	187166	1.7	4	11.175	0.014	230656	2.3	
Total CollAve (3 peaks):				1.3	Total Col2Ave (3 peaks):				5.3	RPD = 119*	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						

Total PCB Area Col1 (4.324 - 10.827) = 8755973

Col1 Total PCB = 0.0 ppm*

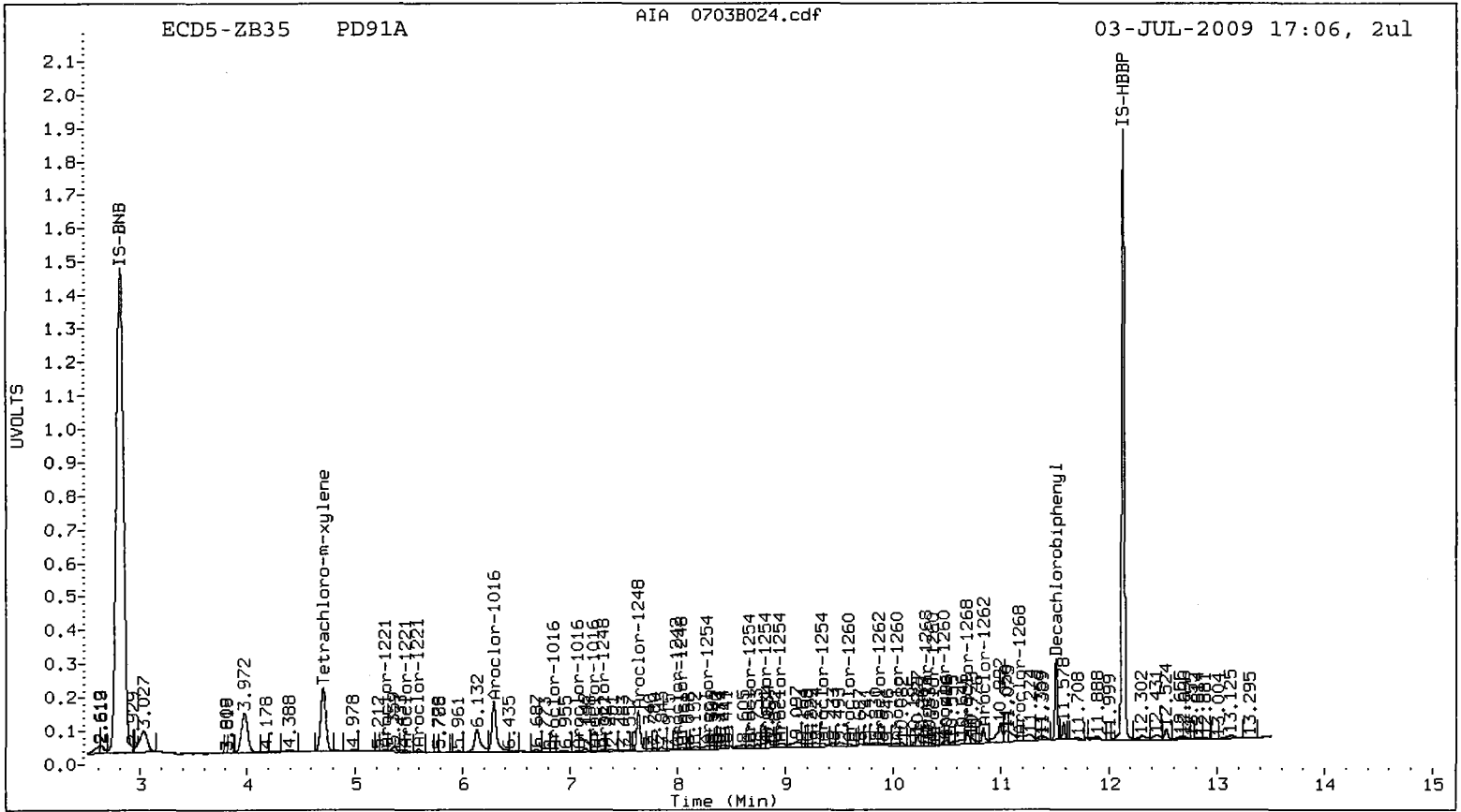
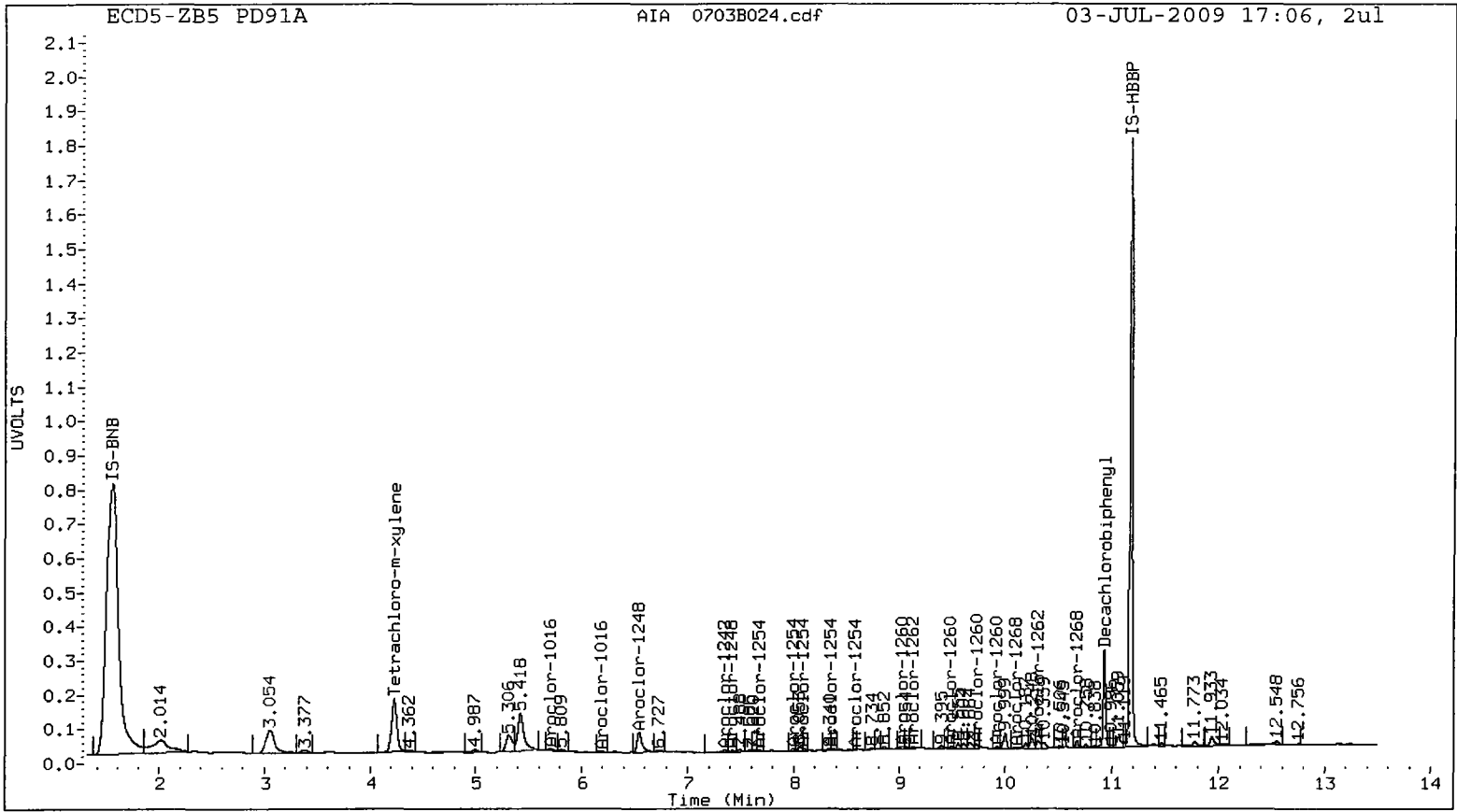
Total PCB Area Col2 (4.806 - 11.404) = 18206795

Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PDS1 : 00046



Lab Sample ID: PD91B
LIMS ID: 09-14457
Matrix: Sediment
Data Release Authorized: *VTS*
Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix
Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000
Date Sampled: 06/22/09
Date Received: 06/22/09

Date Extracted: 07/01/09
Date Analyzed: 07/03/09 17:57
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No
Percent Moisture: 54.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.0%
Tetrachlorometaxylene	78.6%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B027.d
Data file 2: 20090618.B/0703-2.b/0703B027.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91B
Client ID: COMPOSITE GROUP2
Injection Date: 03-JUL-2009 17:57
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 5.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.223	0.000	2691124	4.704	-0.003	2852532	5.8	6.3	8.1	Tetrachloro-m-xylene
10.929	0.002	2310398	11.507	0.003	1700406	7.4	6.1	19.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	72.4	78.6
Decachlorobiphenyl	93.0	76.9

07/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31117031	1.0
Hexabromobiphenyl	12091267	14266835	18.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	34421221	10.2
Hexabromobiphenyl	11173293	14980971	34.1

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.702	-0.034	146471	14.3	1	6.286	0.004	188573	12.0	
Aroclor-1016	2	6.104	-0.006	79163	2.5	2	6.853	-0.011	10132	0.3	
Aroclor-1016	3	6.185	-0.070	113772	8.4	3	7.068	0.004	27765	2.2	
Aroclor-1016	4	---	---	---	0.0	4	7.300	0.073	51189	6.4	
Total CollAve (3 peaks):				8.4	Total Col2Ave (4 peaks):				5.2	RPD = 46*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				3.0		

Aroclor-1221	1	---	---	---	0.0	1	5.221	-0.067	69866	14.1	
Aroclor-1221	2	---	---	---	0.0	2	5.473	-0.040	73555	24.7	
Aroclor-1221	3	---	---	---	0.0	3	5.592	-0.028	66542	7.3	
Aroclor-1221	NS	---	---	---	---	4	7.068	0.023	27765	23.6	
CollAve: < 3 Quant Peaks					Col2Ave:				17.4		

Aroclor-1232	1	---	---	---	0.0	1	5.592	-0.011	66542	8.4	
Aroclor-1232	2	5.702	-0.009	146471	31.6	2	6.286	0.035	188573	24.5	
Aroclor-1232	3	6.104	0.013	79163	5.7	3	6.844	0.008	13121	0.9	
Aroclor-1232	4	6.185	-0.051	113772	19.8	4	7.068	0.030	27765	5.0	
Total CollAve (3 peaks):				19.0	Total Col2Ave (4 peaks):				9.7	RPD = 65*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				4.8		

Aroclor-1242	1	5.702	-0.034	146471	18.9	1	6.286	0.003	188573	16.3	
Aroclor-1242	2	6.104	-0.005	79163	3.3	2	6.853	-0.010	10132	0.4	
Aroclor-1242	3	6.185	-0.071	113772	11.3	3	7.068	0.005	27765	3.0	
Aroclor-1242	4	7.342	-0.014	365382	44.6	4	7.977	0.006	33180	7.5	
Total CollAve (4 peaks):				19.5	Total Col2Ave (4 peaks):				6.8	RPD = 96*	
Corrected Ave (3 peaks):				11.2	Corrected Ave (3 peaks):				3.7	RPD = 101*	

Aroclor-1248	1	6.104	-0.006	79163	5.1	1	6.853	-0.002	10132	0.7	
Aroclor-1248	2	---	---	---	0.0	2	7.300	-0.001	51189	5.5	
Aroclor-1248	3	---	---	---	0.0	3	7.661	-0.010	21748	1.8	
Aroclor-1248	4	7.412	0.003	151901	8.4	4	8.029	0.002	70307	4.6	
CollAve: < 3 Quant Peaks					Col2Ave:				3.1		

Aroclor-1254	1	7.672	0.000	105662	4.9	1	8.262	0.000	92386	5.3	
Aroclor-1254	2	7.979	0.001	66101	4.8	2	8.670	0.002	118557	9.7	
Aroclor-1254	3	8.086	0.001	122918	4.7	3	8.781	0.002	166735	6.9	
Aroclor-1254	4	8.350	0.001	195898	7.2	4	8.944	0.003	237435	8.8	
Aroclor-1254	5	8.623	-0.002	86659	5.4	5	9.327	-0.009	113579	6.6	
Total CollAve (5 peaks):				5.4	Total Col2Ave (5 peaks):				7.5	RPD = 32	
Corrected Ave (4 peaks):				5.0	Corrected Ave (4 peaks):				6.9	RPD = 33	

Aroclor-1260	1	9.015	0.004	106630	8.0	1	9.540	-0.003	18572	1.5	
Aroclor-1260	2	9.220	-0.019	93274	7.3	2	10.028	0.003	149469	4.2	
Aroclor-1260	3	9.484	-0.001	163580	5.1	3	10.343	-0.036	472972	54.8	
Aroclor-1260	4	9.771	0.005	84234	5.1	4	10.467	0.043	288693	13.5	
Aroclor-1260	5	9.920	0.033	311487	36.9	NS	---	---	---	---	
Total CollAve (5 peaks):				12.5	Total Col2Ave (4 peaks):				18.5	RPD = 39	
Corrected Ave (4 peaks):				6.4	Corrected Ave (3 peaks):				6.4	RPD = 0	

Aroclor-1262	1	9.220	0.002	93274	5.0	1	9.866	0.013	81084	3.7	
Aroclor-1262	2	9.484	0.017	163580	3.6	2	10.028	0.011	149469	3.2	
Aroclor-1262	3	9.771	-0.048	84234	4.6	3	10.343	-0.028	472972	25.9	
Aroclor-1262	4	9.920	0.050	311487	15.9	4	10.467	0.049	288693	10.4	
Aroclor-1262	5	10.303	-0.006	584867	38.0	5	10.899	0.012	131983	9.1	
Total CollAve (5 peaks):				13.4	Total Col2Ave (5 peaks):				10.5	RPD = 25	
Corrected Ave (4 peaks):				7.3	Corrected Ave (4 peaks):				6.6	RPD = 10	

Aroclor-1268	1	9.920	0.070	311487	6.1	1	10.304	-0.008	86168	1.8	
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1268	3	10.119	-0.021	123150	3.2	3	10.692	0.004	458568	14.1	
Aroclor-1268	4	10.669	-0.019	177890	1.6	4	11.171	0.011	143844	1.5	
Total CollAve (3 peaks):				3.7	Total Col2Ave (3 peaks):				5.8	RPD = 45*	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						

Total PCB Area Col1 (4.324 - 10.827) = 10537933

Col1 Total PCB = 0.0 ppm*

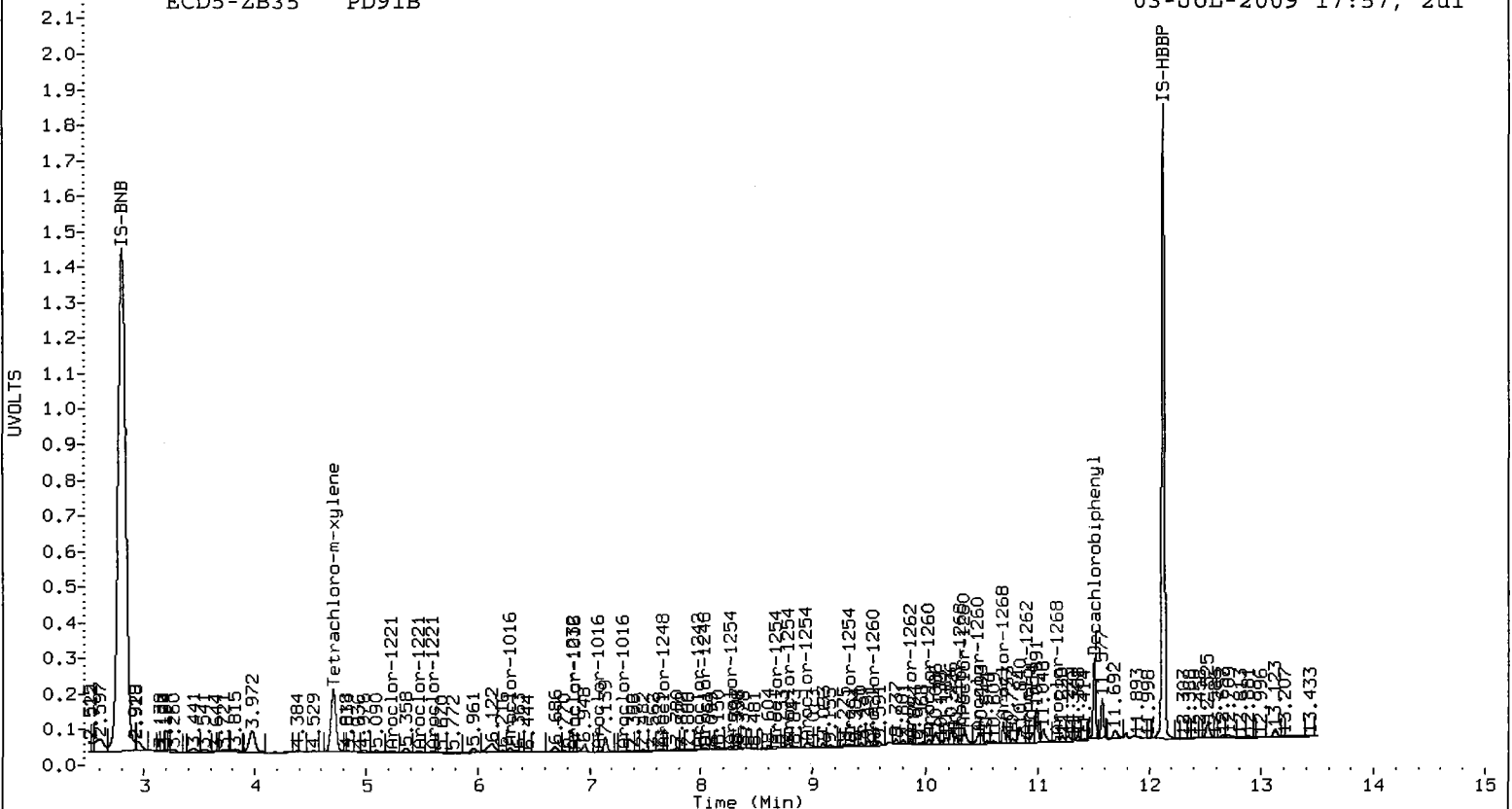
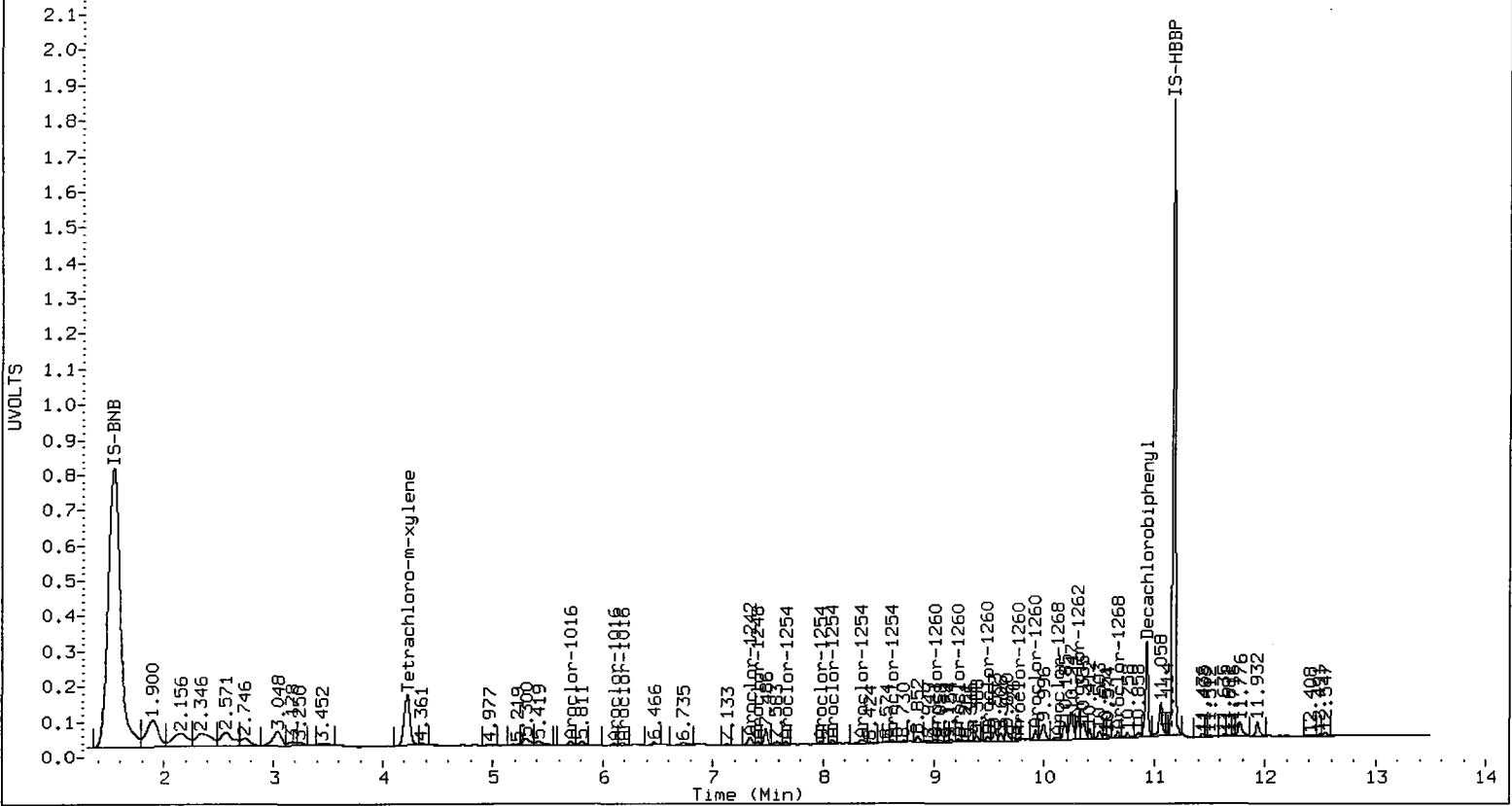
Total PCB Area Col2 (4.806 - 11.404) = 12333189

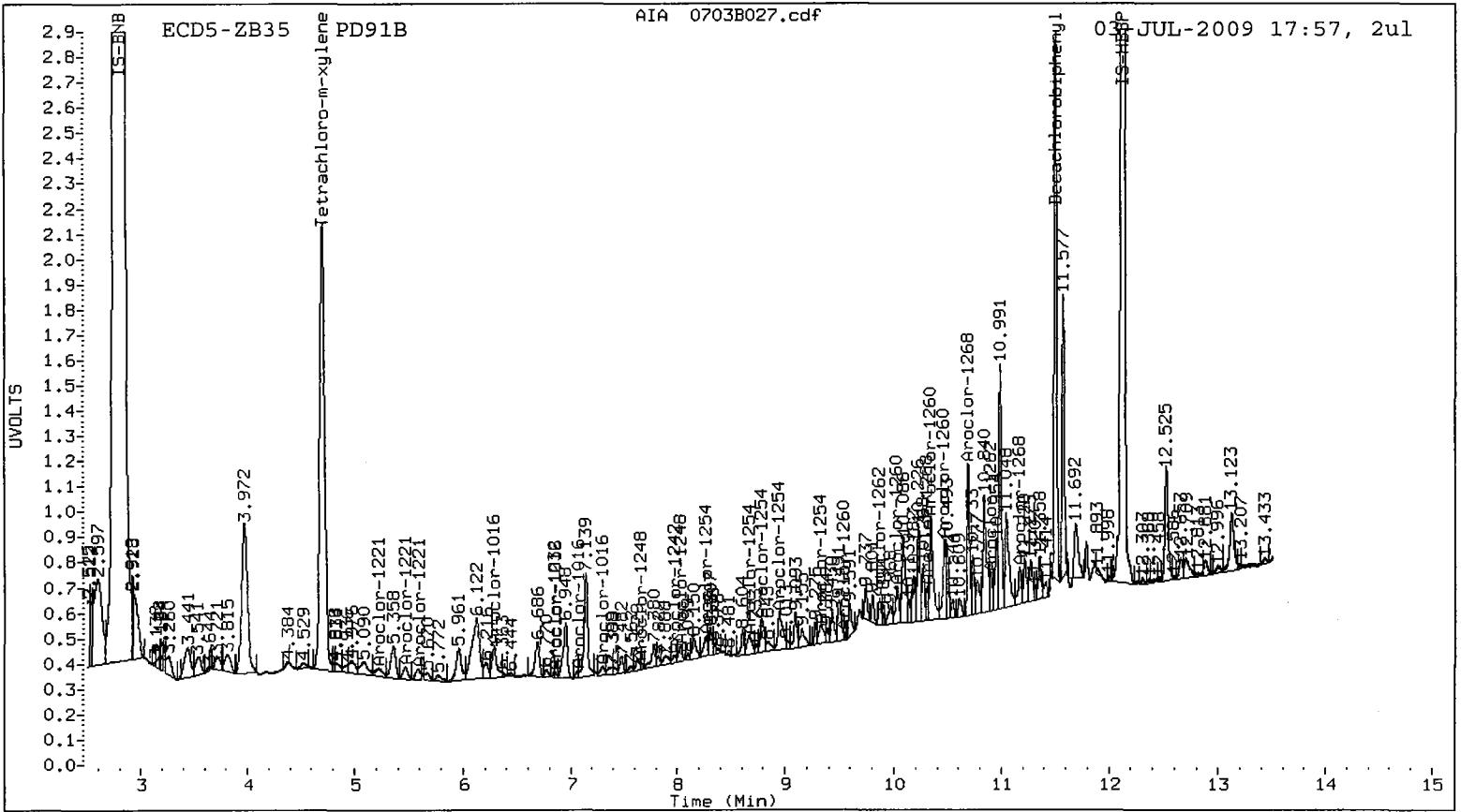
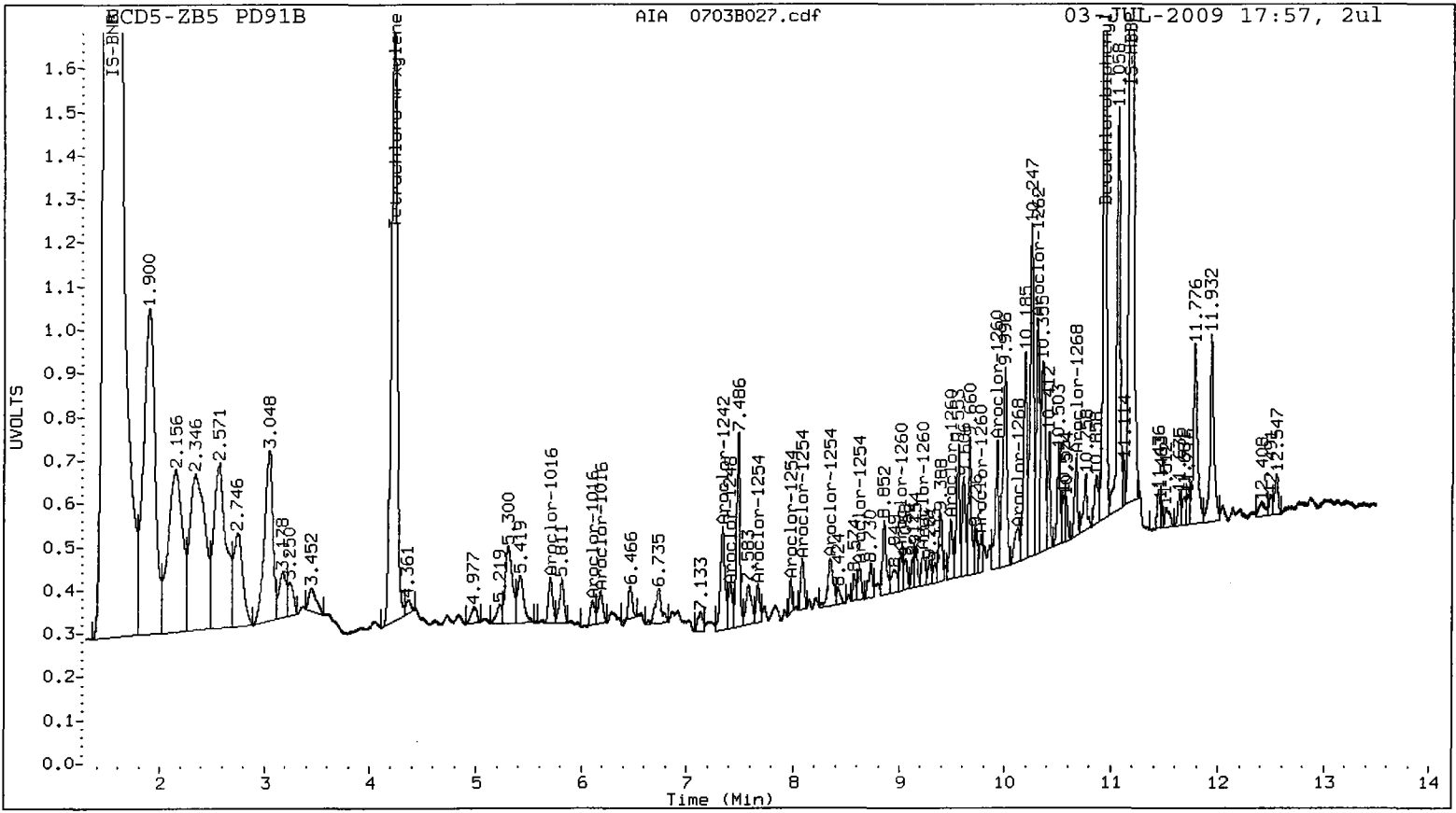
Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PDS1 : 00052





ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP3
SAMPLE**

Lab Sample ID: PD91C
LIMS ID: 09-14458
Matrix: Sediment
Data Release Authorized: **VTS**
Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix
Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000
Date Sampled: 06/22/09
Date Received: 06/22/09

Date Extracted: 07/01/09
Date Analyzed: 07/03/09 18:14
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No
Percent Moisture: 52.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.2%
Tetrachlorometaxylene	78.4%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B028.d
Data file 2: 20090618.B/0703-2.b/0703B028.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91C
Client ID: COMPOSITE GROUP3
Injection Date: 03-JUL-2009 18:14
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 5.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.225	0.001	2658300	4.704	-0.002	2863636	5.7	6.3	10.3	Tetrachloro-m-xylene
10.929	0.001	2243815	11.507	0.003	1715490	7.1	6.1	14.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	70.8	78.4
Decachlorobiphenyl	89.2	76.9

07/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31464960	2.2
Hexabromobiphenyl	12091267	14443913	19.5

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	34614599	10.9
Hexabromobiphenyl	11173293	15116821	35.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.705	-0.031	146221	14.1	1	6.285	0.003	177654	11.2
Aroclor-1016	2	6.183	0.074	112078	3.5	2	6.858	-0.007	19017	0.6
Aroclor-1016	3	---	---	---	0.0	3	7.074	0.010	23075	1.8
Aroclor-1016	4	---	---	---	0.0	4	7.237	0.010	41539	5.1

CollAve: <3 Quant Peaks Col2Ave: 4.7

Aroclor-1221	1	---	---	---	0.0	1	5.227	-0.061	152170	30.5
Aroclor-1221	2	---	---	---	0.0	2	5.476	-0.038	155275	51.8
Aroclor-1221	3	---	---	---	0.0	3	5.587	-0.033	102498	11.1
Aroclor-1221-NS	4	---	---	---	---	4	7.074	0.030	23075	19.5

CollAve: <3 Quant Peaks Col2Ave: 28.2

Aroclor-1232	1	---	---	---	0.0	1	5.587	-0.016	102498	12.8
Aroclor-1232	2	5.705	-0.007	146221	31.2	2	6.285	0.034	177654	22.9
Aroclor-1232	3	6.183	0.093	112078	8.0	3	6.858	0.022	19017	1.3
Aroclor-1232	4	---	---	---	0.0	4	7.074	0.037	23075	4.2

CollAve: <3 Quant Peaks Col2Ave: 10.3

Aroclor-1242	1	5.705	-0.031	146221	18.7	1	6.285	0.002	177654	15.3
Aroclor-1242	2	6.183	0.075	112078	4.7	2	6.858	-0.005	19017	0.8
Aroclor-1242	3	---	---	---	0.0	3	7.074	0.011	23075	2.5
Aroclor-1242	4	7.341	-0.014	134288	16.2	4	7.974	0.003	68506	15.5

Total CollAve (3 peaks): 13.2 Total Col2Ave (4 peaks): 8.5 RPD = 43*
Corrected Ave: < 3 Peaks Corrected Ave (3 peaks): 6.2

Aroclor-1248	1	6.183	0.074	112078	7.2	1	6.858	0.002	19017	1.3
Aroclor-1248	2	---	---	---	0.0	2	7.299	-0.002	47578	5.1
Aroclor-1248	3	---	---	---	0.0	3	7.633	-0.039	73434	6.2
Aroclor-1248	4	7.418	0.009	77115	4.2	4	8.031	0.005	98640	6.4

CollAve: <3 Quant Peaks Col2Ave: 4.7

Aroclor-1254	1	7.672	0.001	38428	1.8	1	8.261	-0.001	95107	5.4
Aroclor-1254	2	7.981	0.003	64444	4.6	2	8.672	0.004	91523	7.5
Aroclor-1254	3	8.084	-0.001	163413	6.2	3	8.781	0.002	100526	4.2
Aroclor-1254	4	8.344	-0.005	97137	3.5	4	8.926	-0.016	284105	10.5
Aroclor-1254	5	8.626	0.000	50321	3.1	5	9.320	-0.016	51120	3.0

Total CollAve (5 peaks): 3.8 Total Col2Ave (5 peaks): 6.1 RPD = 45*
Corrected Ave (4 peaks): 3.3 Corrected Ave (4 peaks): 5.0 RPD = 42*

Aroclor-1260	1	---	---	---	0.0	1	9.542	-0.001	30086	2.4
Aroclor-1260	2	9.237	-0.001	55780	4.3	2	10.028	0.003	100727	2.8
Aroclor-1260	3	9.486	0.001	97902	3.0	3	10.367	-0.012	153090	17.6
Aroclor-1260	4	9.768	0.003	44690	2.7	4	10.425	0.000	29487	1.4
Aroclor-1260	5	9.920	0.032	199152	23.2	NS	---	---	---	---

Total CollAve (4 peaks): 8.3 Total Col2Ave (4 peaks): 6.0 RPD = 32
Corrected Ave (3 peaks): 3.3 Corrected Ave (3 peaks): 2.2 RPD = 42*

Aroclor-1262	1	9.237	0.019	55780	2.9	1	9.865	0.012	52283	2.4
Aroclor-1262	2	9.486	0.019	97902	2.2	2	10.028	0.011	100727	2.2
Aroclor-1262	3	9.841	0.022	37808	2.0	3	10.367	-0.004	153090	8.3
Aroclor-1262	4	---	---	---	0.0	4	10.425	0.007	29487	1.0
Aroclor-1262	5	10.355	0.046	448545	28.8	5	10.905	0.019	59465	4.1

Total CollAve (4 peaks): 9.0 Total Col2Ave (5 peaks): 3.6 RPD = 86*
Corrected Ave (3 peaks): 2.4 Corrected Ave (4 peaks): 2.4 RPD = 2

Aroclor-1268	1	9.841	-0.010	37808	0.7	1	10.305	-0.007	29048	0.6
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0
Aroclor-1268	3	10.099	-0.041	35531	0.9	3	10.692	0.004	114782	3.5
Aroclor-1268	4	10.669	-0.019	193661	1.8	4	11.172	0.012	43772	0.4

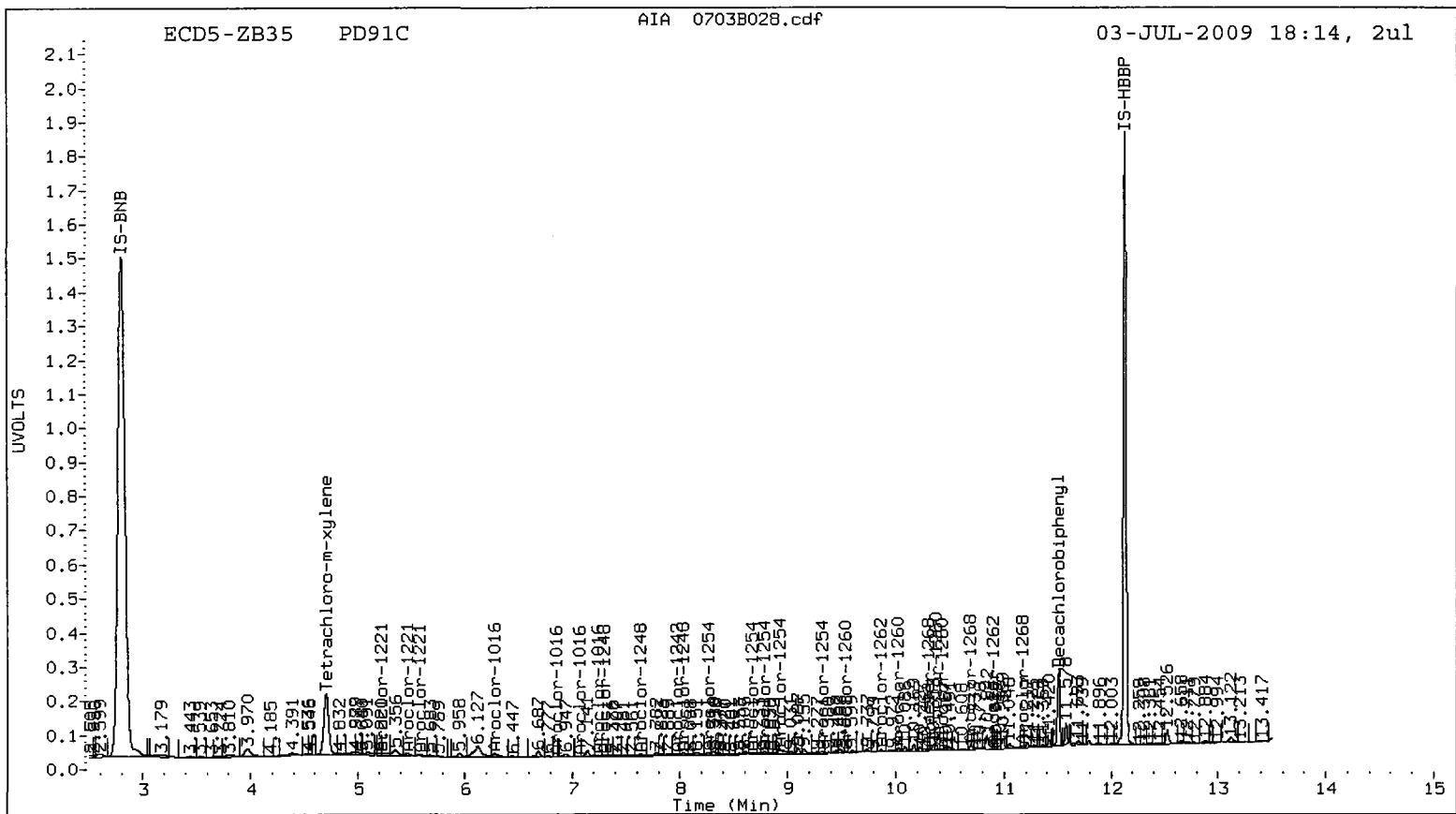
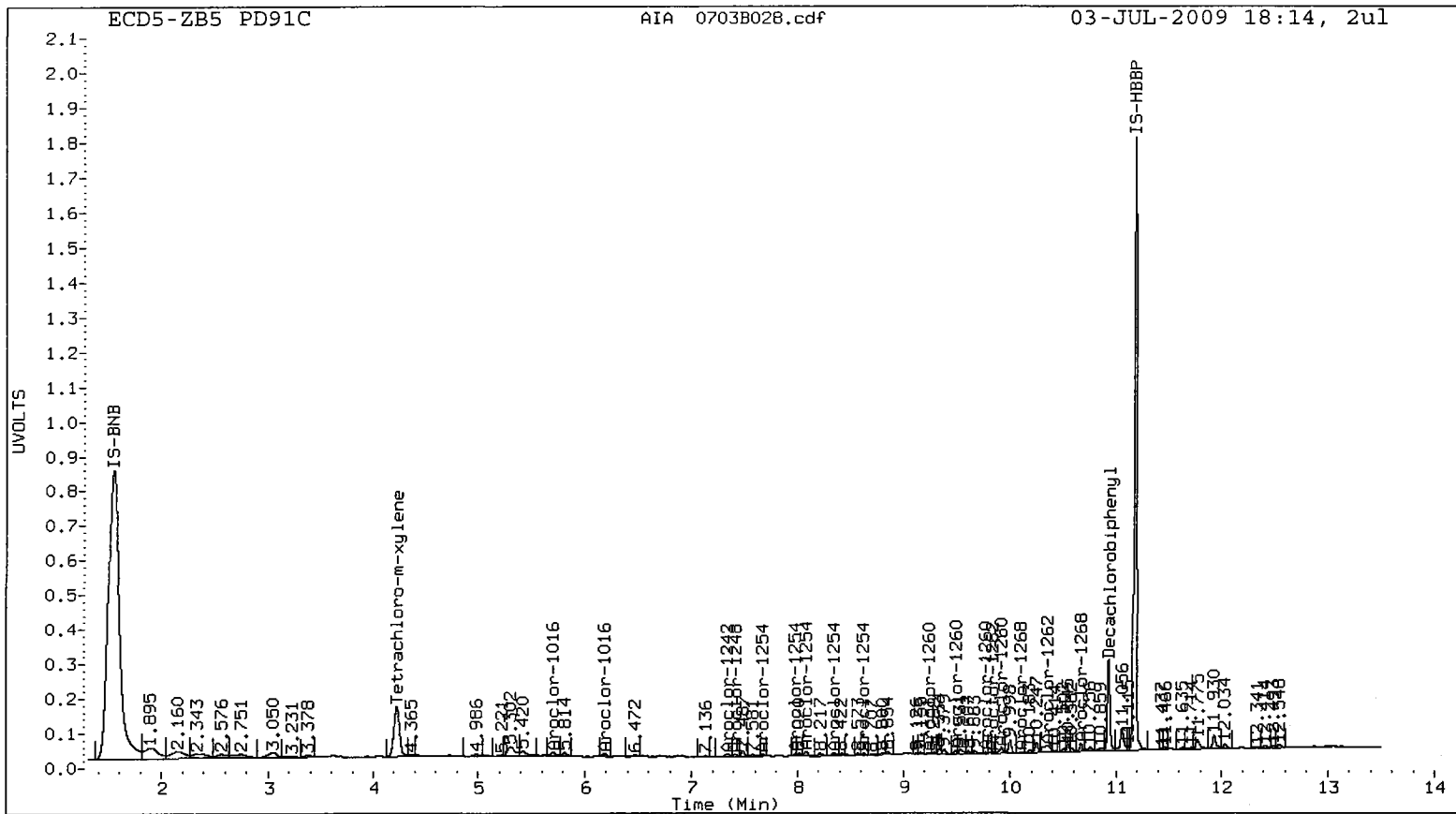
Total CollAve (3 peaks): 1.1 Total Col2Ave (3 peaks): 1.5 RPD = 28
Corrected Ave: < 3 Peaks Corrected Ave: < 3 Peaks

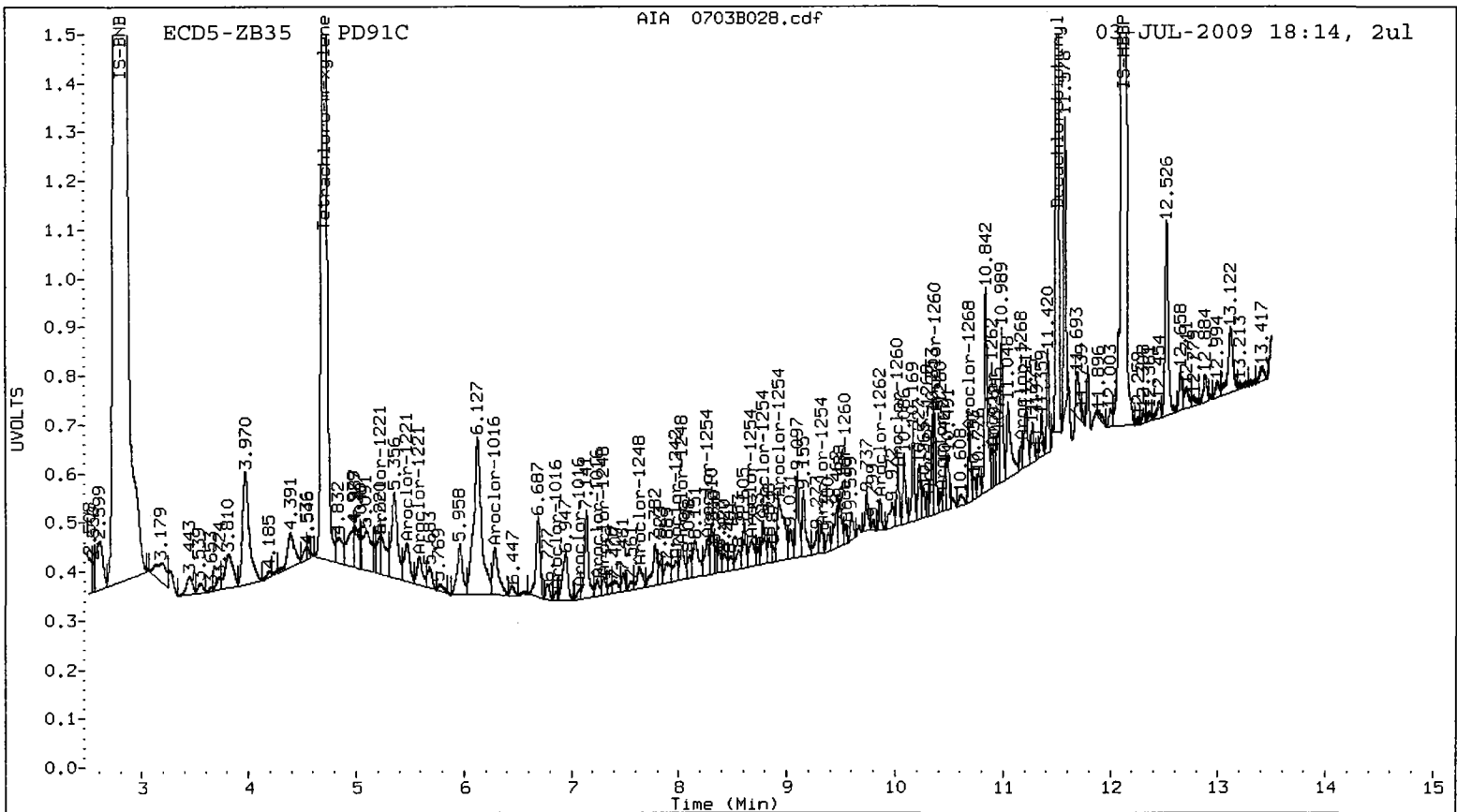
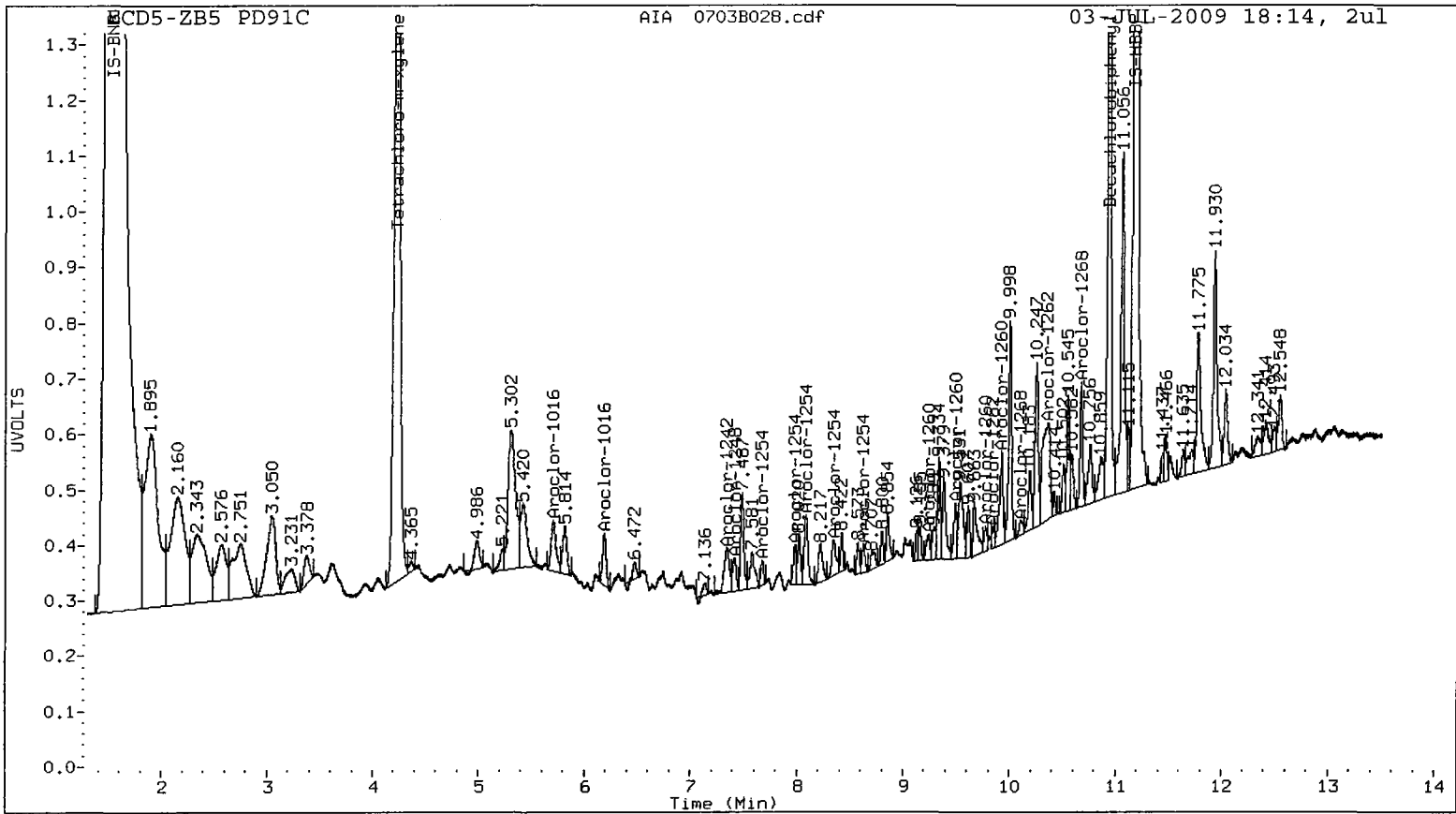
Total PCB Area Coll (4.324 - 10.827) = 6187192 Coll Total PCB = 0.0 ppm*

Total PCB Area Col2 (4.806 - 11.404) = 9195202 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP4
SAMPLE**

Lab Sample ID: PD91D

LIMS ID: 09-14459

Matrix: Sediment

Data Release Authorized: *VTS*

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000

Date Sampled: 06/22/09

Date Received: 06/22/09

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 18:32

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: No

Percent Moisture: 49.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.5%
Tetrachlorometaxylene	76.8%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B029.d
Data file 2: 20090618.B/0703-2.b/0703B029.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91D
Client ID: COMPOSITE GROUP4
Injection Date: 03-JUL-2009 18:32
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 5.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.225	0.001	2814886	4.705	-0.002	2923244	5.9	6.1	4.0	Tetrachloro-m-xylene
10.930	0.002	2352033	11.506	0.002	1730072	7.3	6.2	16.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	73.8	76.8
Decachlorobiphenyl	91.5	77.4

07/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	30797009	31941031	3.7
Hexabromobiphenyl	12091267	14772680	22.2

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31223103	36081045	15.6
Hexabromobiphenyl	11173293	15135306	35.5

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.702	-0.034	151751	14.4	1	6.287	0.005	104960	6.4
Aroclor-1016	2	6.183	0.073	79110	2.4	2	6.857	-0.008	22310	0.7
Aroclor-1016	3	---	---	---	0.0	3	7.138	0.074	174279	13.2
Aroclor-1016	4	---	---	---	0.0	4	7.219	-0.008	17458	2.1

CollAve: <3 Quant Peaks Col2Ave: 5.6

Aroclor-1221	1	---	---	---	0.0	1	5.226	-0.062	39615	7.6
Aroclor-1221	2	---	---	---	0.0	2	5.476	-0.038	75073	24.0
Aroclor-1221	3	---	---	---	0.0	3	5.586	-0.034	45236	4.7
Aroclor-1221	NS	---	---	---	---	4	7.138	0.094	174279	141.6

CollAve: <3 Quant Peaks Col2Ave: 44.5

Aroclor-1232	1	---	---	---	0.0	1	5.586	-0.017	45236	5.4
Aroclor-1232	2	5.702	-0.009	151751	31.9	2	6.287	0.036	104960	13.0
Aroclor-1232	3	6.183	0.092	79110	5.6	3	6.857	0.021	22310	1.5
Aroclor-1232	4	---	---	---	0.0	4	6.947	-0.091	138448	24.0

CollAve: <3 Quant Peaks Col2Ave: 11.0

Aroclor-1242	1	5.702	-0.034	151751	19.1	1	6.287	0.004	104960	8.7
Aroclor-1242	2	6.183	0.074	79110	3.2	2	6.857	-0.006	22310	0.9
Aroclor-1242	3	---	---	---	0.0	3	7.138	0.075	174279	18.1
Aroclor-1242	4	7.336	-0.020	149417	17.8	4	7.976	0.006	40071	8.7

Total CollAve (3 peaks): 13.4 Total Col2Ave (4 peaks): 9.1 RPD = 38

Corrected Ave: < 3 Peaks Corrected Ave (3 peaks): 6.1

Aroclor-1248	1	6.183	0.073	79110	5.0	1	6.857	0.001	22310	1.4
Aroclor-1248	2	---	---	---	0.0	2	7.302	0.001	24065	2.5
Aroclor-1248	3	---	---	---	0.0	3	7.661	-0.011	14481	1.2
Aroclor-1248	4	7.413	0.004	56812	3.1	4	8.030	0.003	73288	4.5

CollAve: <3 Quant Peaks Col2Ave: 2.4

Aroclor-1254	1	7.672	0.001	24007	1.1	1	8.267	0.005	74170	4.0
Aroclor-1254	2	7.981	0.003	47966	3.4	2	8.677	0.009	73528	5.8
Aroclor-1254	3	8.086	0.001	86041	3.2	3	8.780	0.001	67246	2.7
Aroclor-1254	4	8.351	0.003	50276	1.8	4	8.943	0.002	65509	2.3
Aroclor-1254	5	8.628	0.003	42115	2.5	5	9.321	-0.015	44524	2.5

Total CollAve (5 peaks): 2.4 Total Col2Ave (5 peaks): 3.5 RPD = 36

Corrected Ave (4 peaks): 2.2 Corrected Ave (4 peaks): 2.9 RPD = 29

Aroclor-1260	1	8.977	-0.034	49101	3.6	1	9.591	0.048	51321	4.1
Aroclor-1260	2	9.224	-0.014	39512	3.0	2	10.027	0.002	68984	1.9
Aroclor-1260	3	9.486	0.000	32862	1.0	3	10.343	-0.036	158667	18.2
Aroclor-1260	4	---	---	---	0.0	4	10.490	0.065	119752	5.5
Aroclor-1260	5	9.920	0.033	112999	12.9	NS	---	---	---	---

Total CollAve (4 peaks): 5.1 Total Col2Ave (4 peaks): 7.4 RPD = 37

Corrected Ave (3 peaks): 2.5 Corrected Ave (3 peaks): 3.8 RPD = 42*

Aroclor-1262	1	9.224	0.006	39512	2.0	1	9.865	0.012	40981	1.9
Aroclor-1262	2	9.486	0.018	32862	0.7	2	10.027	0.010	68984	1.5
Aroclor-1262	3	---	---	---	0.0	3	10.343	-0.028	158667	8.6
Aroclor-1262	4	9.920	0.050	112999	5.6	4	10.490	0.072	119752	4.3
Aroclor-1262	5	10.345	0.035	223960	14.0	5	10.897	0.010	36837	2.5

Total CollAve (4 peaks): 5.6 Total Col2Ave (5 peaks): 3.7 RPD = 40

Corrected Ave (3 peaks): 2.8 Corrected Ave (4 peaks): 2.5 RPD = 9

Aroclor-1268	1	9.920	0.069	112999	2.1	1	10.343	0.031	158667	3.2
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0
Aroclor-1268	3	10.100	-0.039	78156	2.0	3	10.693	0.005	63304	1.9
Aroclor-1268	4	10.671	-0.017	203559	1.8	4	11.168	0.008	40871	0.4

Total CollAve (3 peaks): 2.0 Total Col2Ave (3 peaks): 1.9 RPD = 6

Corrected Ave: < 3 Peaks Corrected Ave: < 3 Peaks

Total PCB Area Coll (4.324 - 10.827) = 3555405 Coll Total PCB = 0.0 ppm*

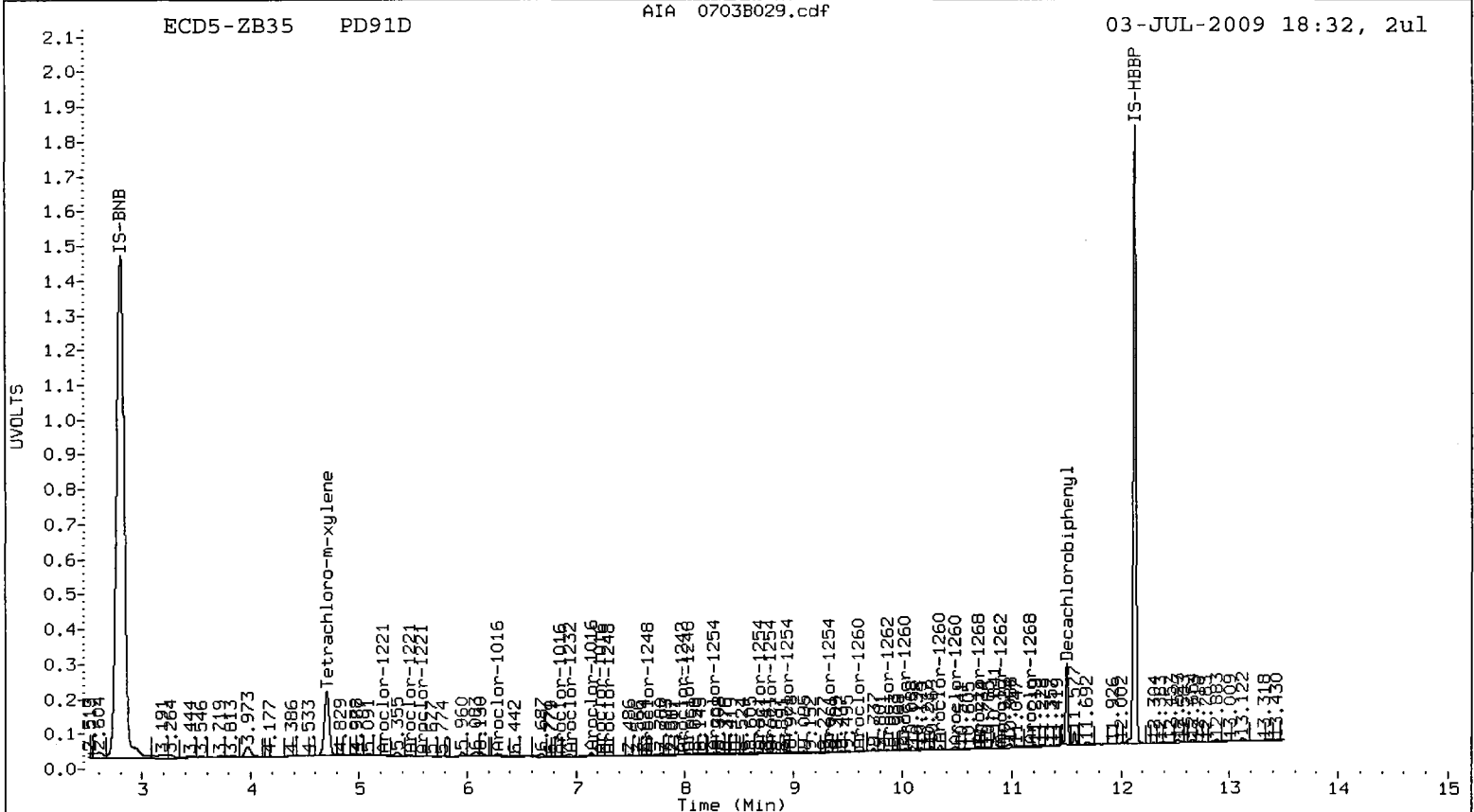
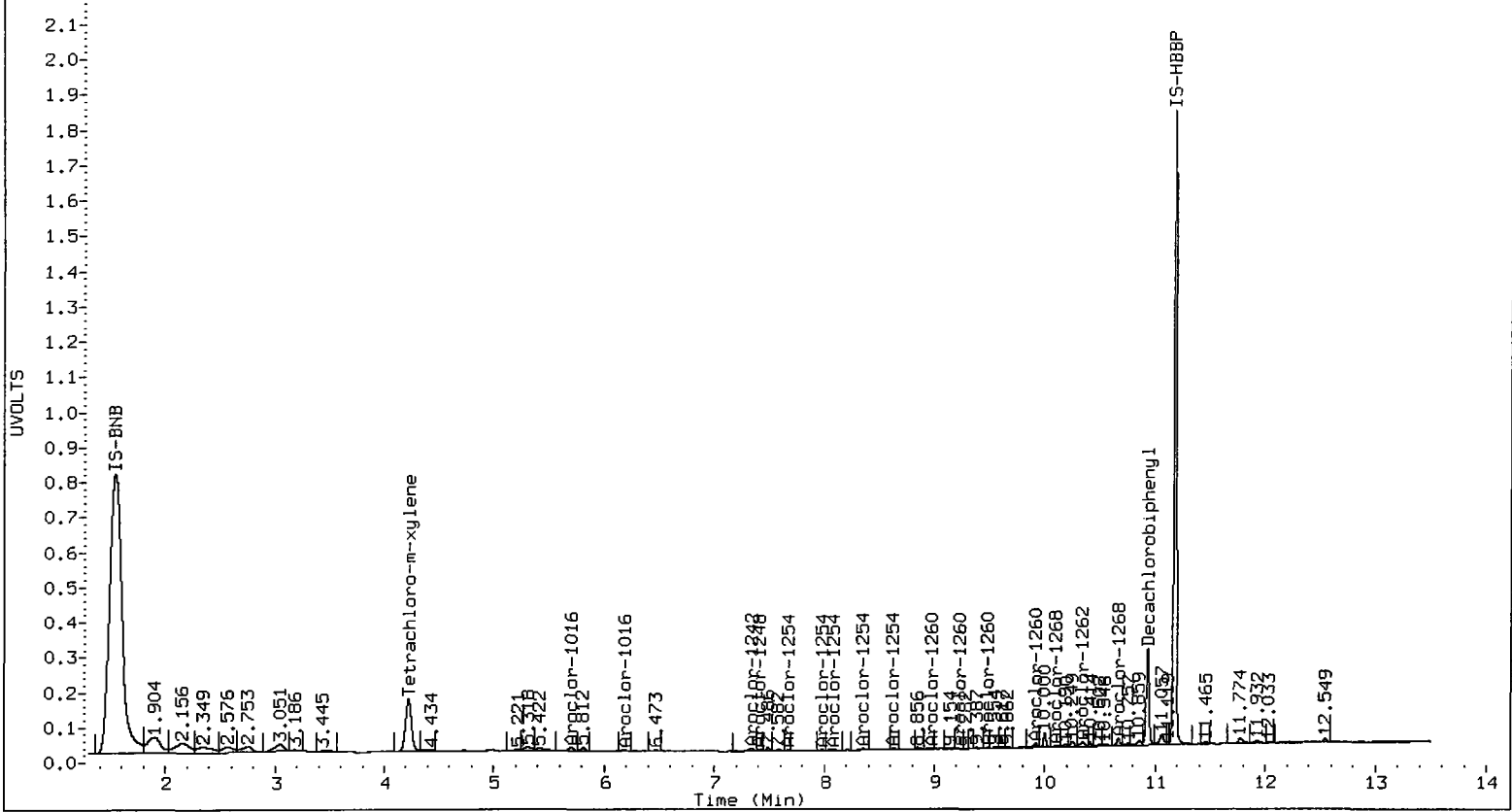
Total PCB Area Col2 (4.806 - 11.404) = 5301381

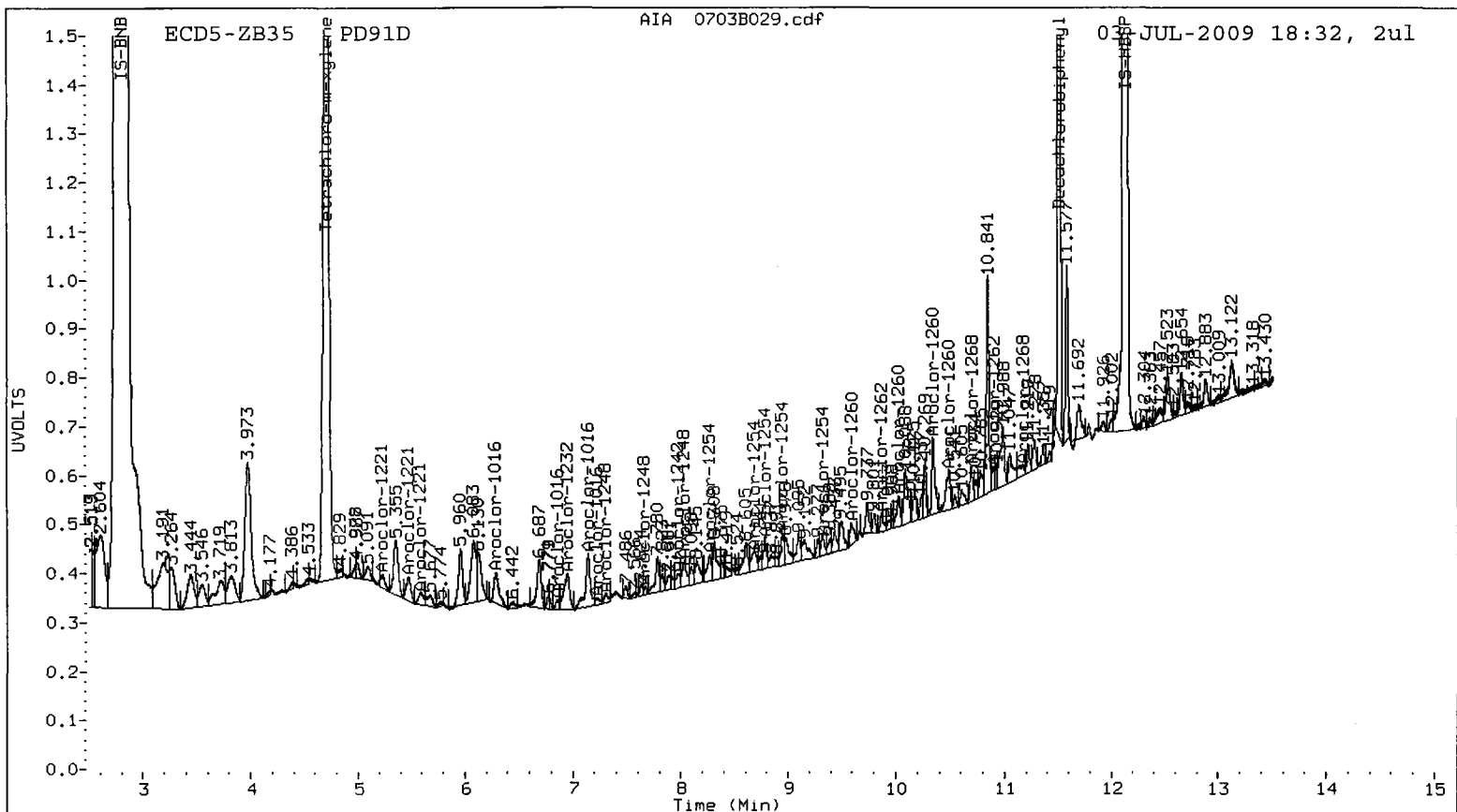
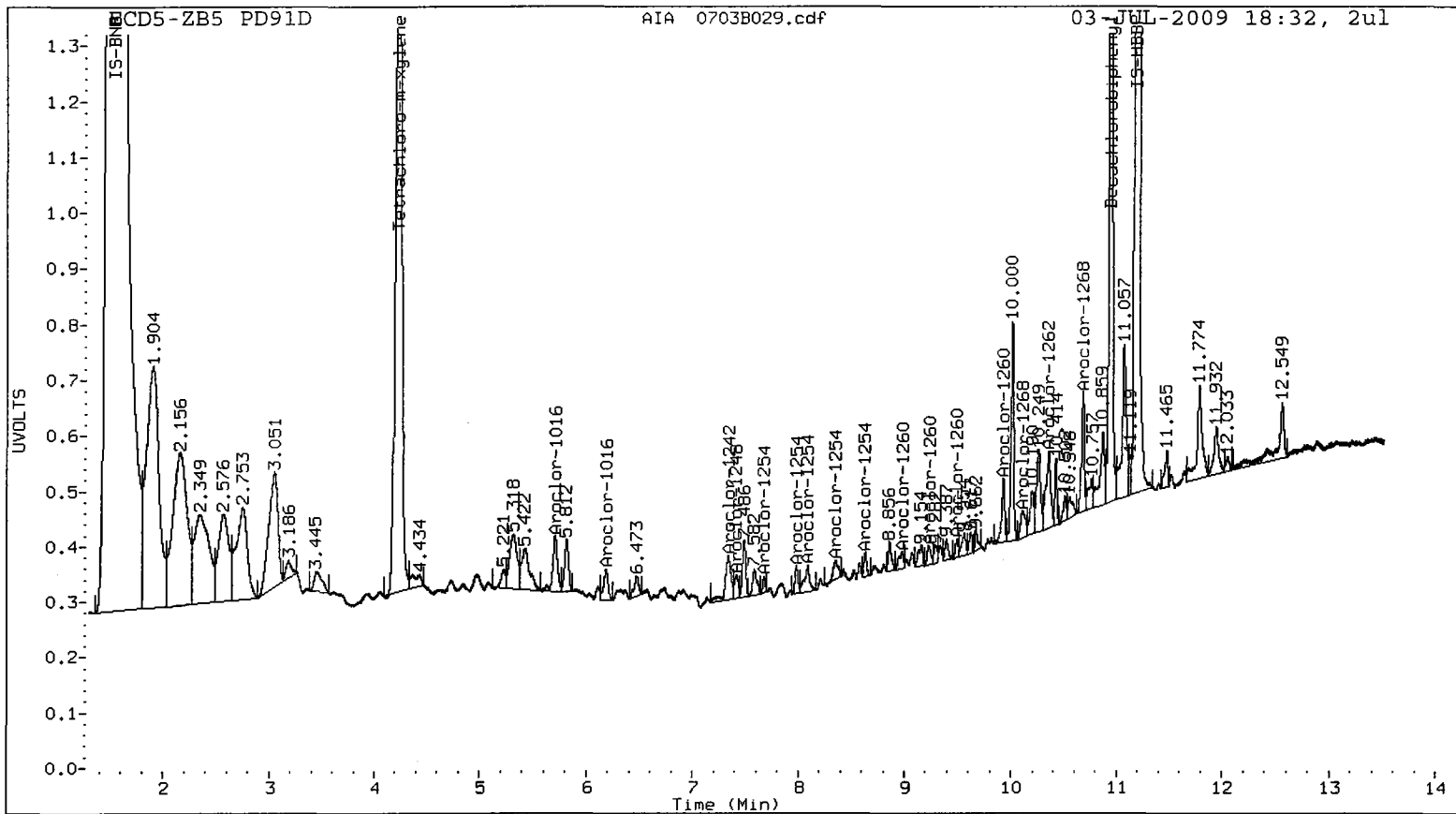
Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PDS1 : 00004





ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP5
SAMPLE**

Lab Sample ID: PD91E
LIMS ID: 09-14460
Matrix: Sediment
Data Release Authorized: *VTS*
Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix
Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000
Date Sampled: 06/22/09
Date Received: 06/22/09

Date Extracted: 07/01/09
Date Analyzed: 07/03/09 18:49
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No
Percent Moisture: 42.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.0%
Tetrachlorometaxylene	76.6%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B030.d
Data file 2: 20090618.B/0703-2.b/0703B030.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91E
Client ID: COMPOSITE GROUP5
Injection Date: 03-JUL-2009 18:49
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 5.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.226	0.002	2918752	4.706	0.000	2854166	6.1	6.1	1.2	Tetrachloro-m-xylene
10.930	0.002	2308920	11.507	0.002	1644588	7.1	5.9	19.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	76.6	75.7
Decachlorobiphenyl	89.0	73.6

07/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31917127	3.6
Hexabromobiphenyl	12091267	14896491	23.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	35739182	14.5
Hexabromobiphenyl	11173293	15130959	35.4

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	6.291	0.009	142668	8.7
Aroclor-1016	2	---			0.0	2	6.854	-0.010	27733	0.8
Aroclor-1016	3	---			0.0	3	7.139	0.075	177581	13.6
Aroclor-1016	4	---			0.0	4	7.219	-0.008	31645	3.8
CollAve: <3 Quant Peaks						Col2Ave: 6.7				
Aroclor-1221	1	---			0.0	1	5.228	-0.060	97982	19.0
Aroclor-1221	2	---			0.0	2	5.475	-0.039	92682	29.9
Aroclor-1221	3	---			0.0	3	5.592	-0.028	35721	3.7
Aroclor-1221	NS	---			---	4	7.139	0.095	177581	145.6
CollAve: <3 Quant Peaks						Col2Ave: 49.6				
Aroclor-1232	1	---			0.0	1	5.592	-0.011	35721	4.3
Aroclor-1232	2	---			0.0	2	6.291	0.039	142668	17.8
Aroclor-1232	3	---			0.0	3	6.854	0.019	27733	1.9
Aroclor-1232	4	---			0.0	4	6.945	-0.093	133286	23.3
CollAve: <3 Quant Peaks						Col2Ave: 11.8				
Aroclor-1242	1	5.705	-0.031	104523	13.2	1	6.291	0.008	142668	11.9
Aroclor-1242	2	---			0.0	2	6.854	-0.008	27733	1.2
Aroclor-1242	3	---			0.0	3	7.139	0.076	177581	18.6
Aroclor-1242	4	7.329	-0.026	156850	18.7	4	7.975	0.004	50841	11.1
CollAve: <3 Quant Peaks						Col2Ave: 10.7				
Aroclor-1248	1	---			0.0	1	6.854	-0.001	27733	1.8
Aroclor-1248	2	---			0.0	2	7.303	0.003	37396	3.9
Aroclor-1248	3	---			0.0	3	7.632	-0.040	57400	4.7
Aroclor-1248	4	---			0.0	4	8.028	0.001	58868	3.7
CollAve: <3 Quant Peaks						Col2Ave: 3.5				
Aroclor-1254	1	7.582	-0.090	72657	3.3	1	8.264	0.002	55890	3.1
Aroclor-1254	2	7.982	0.005	73557	5.2	2	8.692	0.024	50037	4.0
Aroclor-1254	3	8.087	0.002	69924	2.6	3	8.781	0.002	33475	1.3
Aroclor-1254	4	8.382	0.033	82883	3.0	4	8.945	0.004	51285	1.8
Aroclor-1254	5	8.576	-0.049	12246	0.7	5	9.330	-0.006	25804	1.5
Total CollAve (5 peaks):				3.0	Total Col2Ave (5 peaks):				2.3	RPD = 24
Corrected Ave (4 peaks):				2.4	Corrected Ave (4 peaks):				1.9	RPD = 22
Aroclor-1260	1	9.069	0.058	44399	3.2	1	9.589	0.046	46141	3.7
Aroclor-1260	2	9.222	-0.016	36920	2.8	2	10.027	0.002	58980	1.6
Aroclor-1260	3	9.487	0.001	22635	0.7	3	10.342	-0.037	147134	16.9
Aroclor-1260	4	---			0.0	4	10.485	0.061	77049	3.6
Aroclor-1260	5	9.920	0.032	62328	7.1	NS	---		---	---
Total CollAve (4 peaks):				3.4	Total Col2Ave (4 peaks):				6.4	RPD = 61*
Corrected Ave (3 peaks):				2.2	Corrected Ave (3 peaks):				2.9	RPD = 29
Aroclor-1262	1	9.222	0.005	36920	1.9	1	9.867	0.014	25798	1.2
Aroclor-1262	2	9.487	0.020	22635	0.5	2	10.027	0.010	58980	1.3
Aroclor-1262	3	---			0.0	3	10.342	-0.029	147134	8.0
Aroclor-1262	4	9.920	0.049	62328	3.0	4	10.485	0.067	77049	2.7
Aroclor-1262	5	10.345	0.035	154650	9.6	5	10.894	0.007	39234	2.7
Total CollAve (4 peaks):				3.8	Total Col2Ave (5 peaks):				3.2	RPD = 17
Corrected Ave (3 peaks):				1.8	Corrected Ave (4 peaks):				2.0	RPD = 9
Aroclor-1268	1	9.920	0.069	62328	1.2	1	10.342	0.030	147134	3.0
Aroclor-1268	2	---			0.0	2	---		---	0.0
Aroclor-1268	3	10.101	-0.039	56330	1.4	3	10.695	0.008	41341	1.3
Aroclor-1268	4	10.671	-0.017	237540	2.1	4	11.133	-0.027	28397	0.3
Total CollAve (3 peaks):				1.6	Total Col2Ave (3 peaks):				1.5	RPD = 3
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks					

Total PCB Area Coll (4.324 - 10.827) = 2699983 Coll Total PCB = 0.0 ppm*

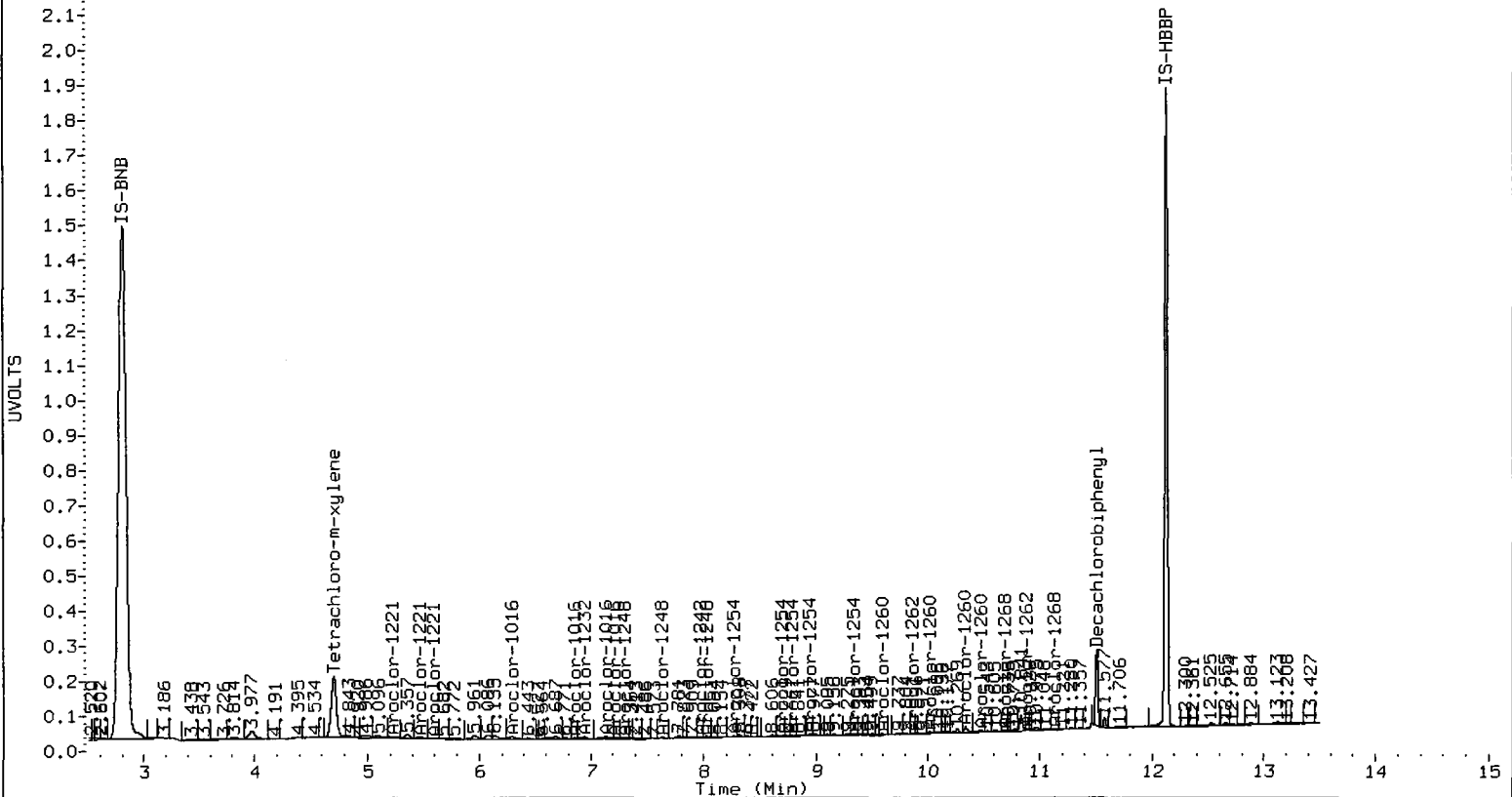
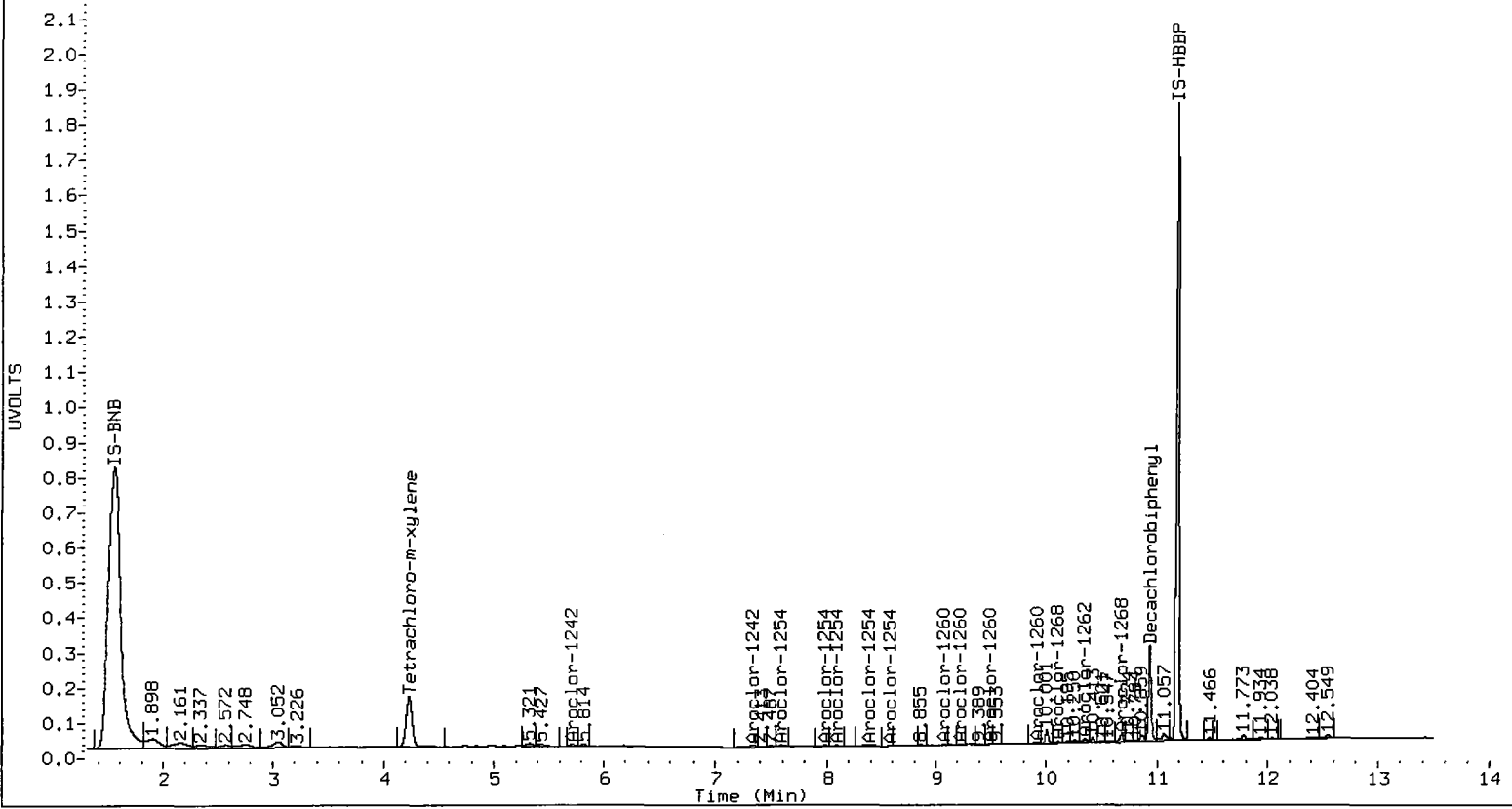
Total PCB Area Col2 (4.806 - 11.404) = 5258704

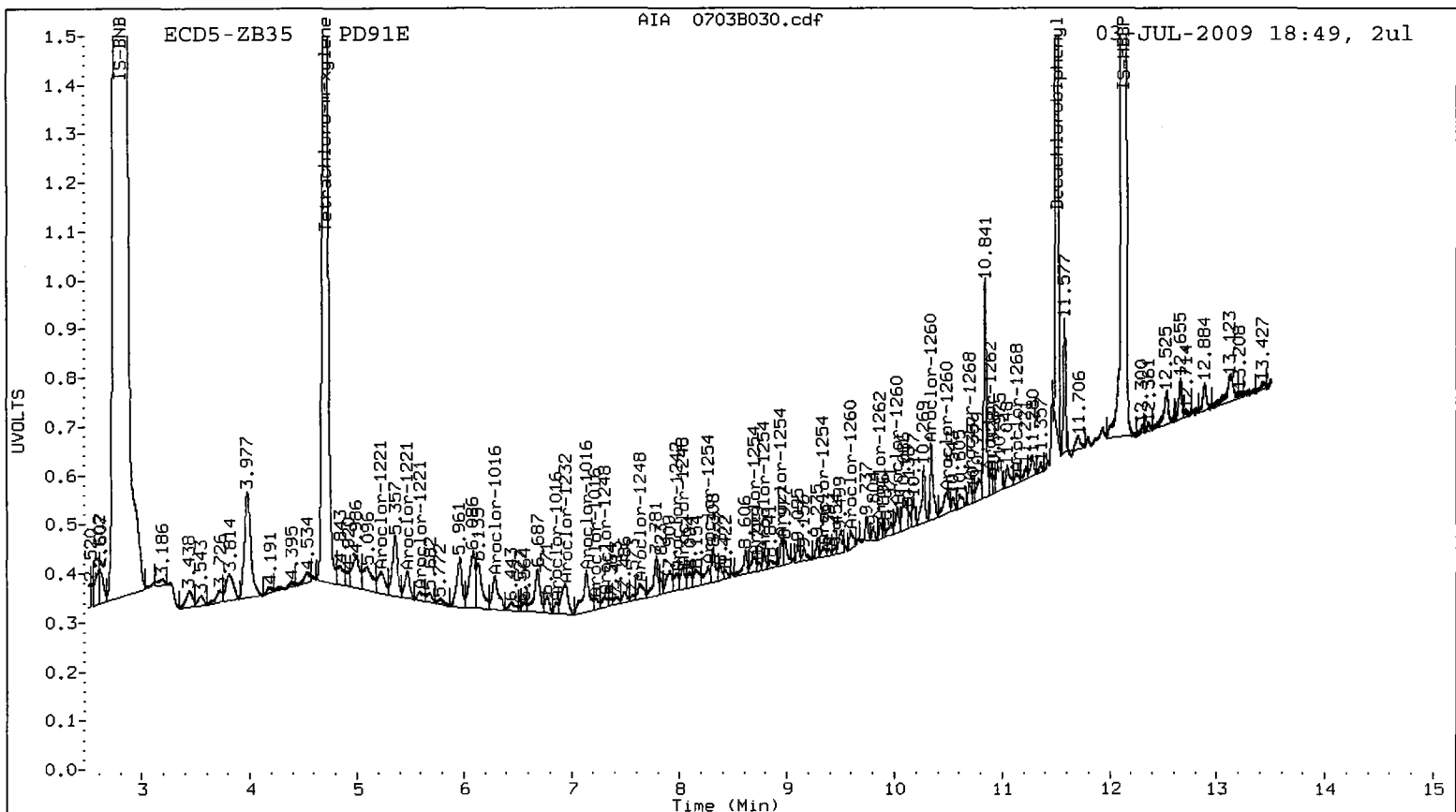
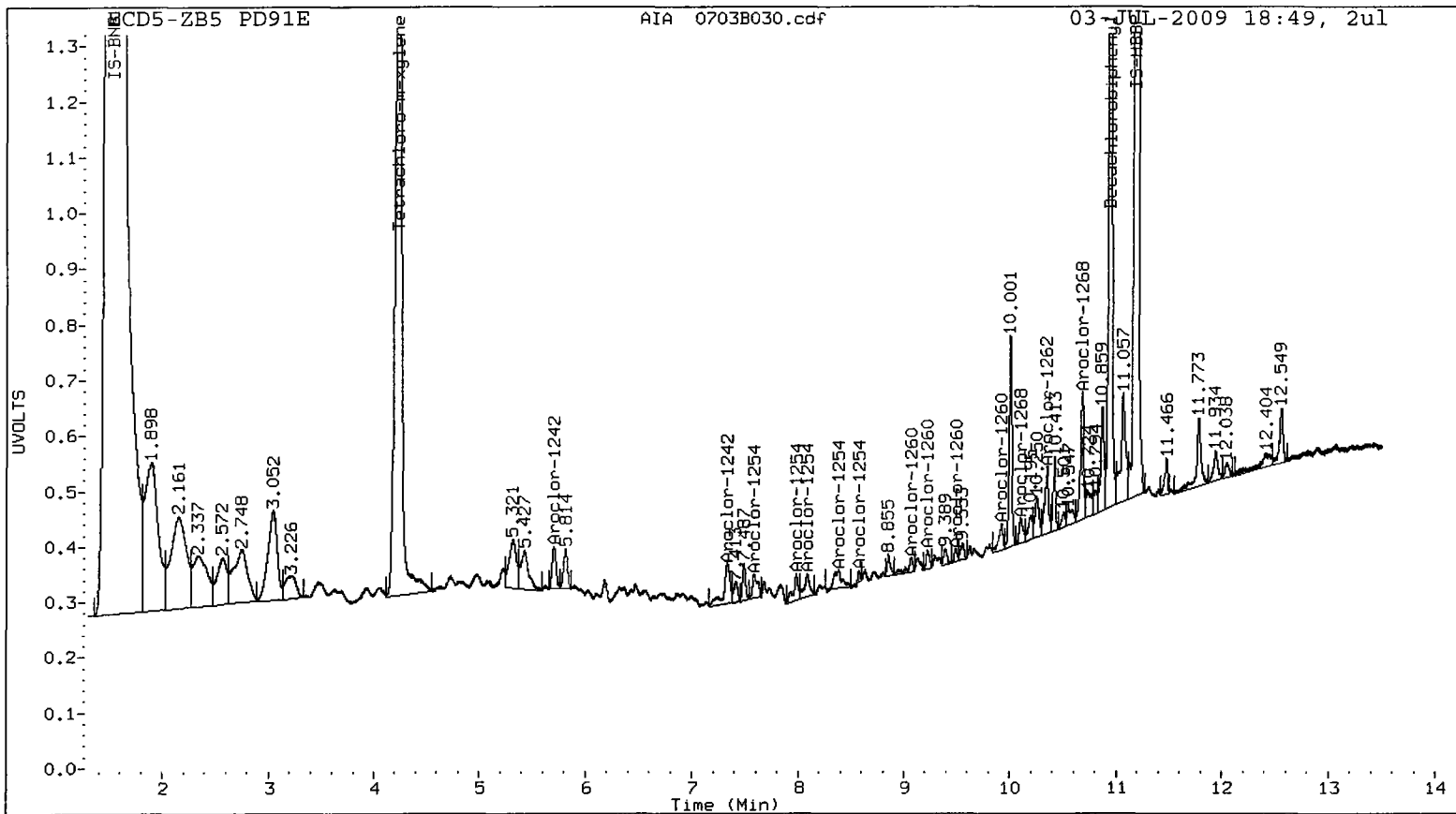
Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCS1 : 00070





PCB Analysis
Standard Raw Data

prepared
for

AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT, 10654.000

ARI JOB NO: PD91

prepared
by

Analytical Resources, Inc.

6F
8082 INITIAL CALIBRATION OF AROCLOR 1232

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 06/18/09

Aroclor-1232	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak RT WIN	.02	0.1	.25	0.5	1.0		R ²
1 4.69- 4.89	0.0271	0.0247	0.0231	0.0211	0.0193	0.0231	13.3
2 5.61- 5.81	0.0144	0.0126	0.0116	0.0109	0.0101	0.0119	13.9
3 5.99- 6.19	0.0402	0.0382	0.0353	0.0332	0.0314	0.0357	10.1
4 6.14- 6.34	0.0151	0.0164	0.0151	0.0141	0.0132	0.0148	8.3

AROCLOR AVERAGE %RSD = 11.4

FORM VI PCB-1

6F
8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 06/18/09

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	4.12- 4.32	1.5544	1.2708	1.1122	1.0473	0.9841	1.1938	19.1
DCB	10.83-11.03	3.2091	2.2165	1.8940	1.8202	1.7016	2.1683	0.9959

Aroclor-1016		LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak	RT WIN	.02	0.1	.25	0.5	1.0		R ²
1	5.64- 5.84	0.0326	0.0292	0.0255	0.0234	0.0214	0.0264	17.0
2	6.01- 6.21	0.1010	0.0904	0.0791	0.0736	0.0685	0.0825	15.9
3	6.15- 6.35	0.0442	0.0386	0.0333	0.0305	0.0280	0.0349	18.6
4	6.26- 6.46	0.0310	0.0260	0.0229	0.0214	0.0200	0.0243	18.1

AROCLOR AVERAGE %RSD = 17.4

Aroclor-1260		LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak	RT WIN	.02	0.1	.25	0.5	1.0		R ²
1	8.91- 9.11	0.1283	0.0984	0.0845	0.0789	0.0726	0.0925	0.9938
2	9.14- 9.34	0.1208	0.0928	0.0802	0.0753	0.0697	0.0878	0.9946
3	9.39- 9.59	0.2893	0.2260	0.1981	0.1889	0.1762	0.2157	0.9960
4	9.67- 9.87	0.1691	0.1192	0.1028	0.0964	0.0900	0.1155	0.9951
5	9.79- 9.99	0.0807	0.0609	0.0528	0.0496	0.0461	0.0580	0.9950

AROCLOR AVERAGE R² = 0.9949

6F
8082 INITIAL CALIBRATION OF AROCLOR 1232

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 06/18/09

Aroclor-1232	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak RT WIN	.02	0.1	.25	0.5	1.0		R ²
1 5.50- 5.70	0.0212	0.0203	0.0181	0.0169	0.0160	0.0185	11.9
2 6.15- 6.35	0.0217	0.0191	0.0174	0.0161	0.0153	0.0179	14.4
3 6.74- 6.94	0.0407	0.0342	0.0314	0.0296	0.0289	0.0330	14.5
4 6.94- 7.14	0.0139	0.0141	0.0128	0.0118	0.0114	0.0128	9.4

AROCLOR AVERAGE %RSD = 12.5

FORM VI PCB-1

PD91 : 00076

6F
8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 06/18/09

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	4.61- 4.81	1.3643	1.0473	0.9970	0.9634	0.9023	1.0548	17.1
DCB	11.40-11.60	2.3107	1.7584	1.5483	1.5216	1.4562	1.7190	0.9983

Aroclor-1016		LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak	RT WIN	.02	0.1	.25	0.5	1.0		R^2
1	6.18- 6.38	0.0471	0.0398	0.0346	0.0322	0.0290	0.0366	19.5
2	6.76- 6.96	0.0934	0.0777	0.0706	0.0671	0.0624	0.0742	16.3
3	6.96- 7.16	0.0376	0.0313	0.0278	0.0258	0.0238	0.0293	18.5
4	7.13- 7.33	0.0221	0.0195	0.0185	0.0173	0.0161	0.0187	12.4

AROCLOR AVERAGE %RSD = 16.7

Aroclor-1260		LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
Peak	RT WIN	.02	0.1	.25	0.5	1.0		R^2
1	9.44- 9.64	0.1096	0.0829	0.0728	0.0695	0.0653	0.0801	0.9965
2	9.92-10.12	0.2866	0.2099	0.1911	0.1864	0.1932	0.2134	0.9993
3	10.28-10.48	0.0771	0.0563	0.0495	0.0474	0.0454	0.0551	0.9977
4	10.32-10.52	0.1905	0.1359	0.1217	0.1180	0.1129	0.1358	0.9981

AROCLOR AVERAGE R^2 = 0.9979

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 06/18/09

Aroclor-1221				Cal
Peak	RT	RT WIN		Factor
1	4.528	4.43-	4.63	0.01130
2	4.692	4.59-	4.79	0.00806
3	4.789	4.69-	4.89	0.02740
Aroclor-1232				Cal
Peak	RT	RT WIN		Factor
1	4.790	4.69-	4.89	0.02253
2	5.711	5.61-	5.81	0.01125
3	6.090	5.99-	6.19	0.03411
4	6.236	6.14-	6.34	0.01464
Aroclor-1242				Cal
Peak	RT	RT WIN		Factor
1	5.736	5.64-	5.84	0.01988
2	6.109	6.01-	6.21	0.06111
3	6.256	6.16-	6.36	0.02590
4	7.356	7.26-	7.46	0.02108
Aroclor-1248				Cal
Peak	RT	RT WIN		Factor
1	6.110	6.01-	6.21	0.03974
2	6.574	6.47-	6.67	0.02750
3	6.861	6.76-	6.96	0.03123
4	7.409	7.31-	7.51	0.04640

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 06/18/09

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	7.672	7.57- 7.77	0.05524
2	7.978	7.88- 8.08	0.03530
3	8.085	7.99- 8.19	0.06695
4	8.349	8.25- 8.45	0.07019
5	8.625	8.53- 8.73	0.04164

Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	9.218	9.12- 9.32	0.10556
2	9.467	9.37- 9.57	0.25182
3	9.819	9.72- 9.92	0.10308
4	9.871	9.77- 9.97	0.10997
5	10.309	10.21-10.41	0.08635

Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	9.851	9.75- 9.95	0.28477
2	1.000	0.90- 1.10	0.27409
3	10.140	10.04-10.24	0.21414
4	10.688	10.59-10.79	0.60738

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 06/18/09

Aroclor-1221			
Peak	RT	RT WIN	Cal Factor
1	5.288	5.19- 5.39	0.01152
2	5.513	5.41- 5.61	0.00693
3	5.620	5.52- 5.72	0.02133
4	7.045	6.94- 7.14	0.00273
Aroclor-1232			
Peak	RT	RT WIN	Cal Factor
1	5.603	5.50- 5.70	0.01783
2	6.251	6.15- 6.35	0.01667
3	6.835	6.74- 6.94	0.03035
4	7.038	6.94- 7.14	0.01236
Aroclor-1242			
Peak	RT	RT WIN	Cal Factor
1	6.283	6.18- 6.38	0.02683
2	6.863	6.76- 6.96	0.05355
3	7.063	6.96- 7.16	0.02138
4	7.971	7.87- 8.07	0.01024
Aroclor-1248			
Peak	RT	RT WIN	Cal Factor
1	6.855	6.76- 6.96	0.03494
2	7.301	7.20- 7.40	0.02173
3	7.671	7.57- 7.77	0.02759
4	8.026	7.93- 8.13	0.03578

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 06/18/09

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	8.262	8.16- 8.36	0.04066
2	8.668	8.57- 8.77	0.02833
3	8.779	8.68- 8.88	0.05580
4	8.942	8.84- 9.04	0.06265
5	9.336	9.24- 9.44	0.03980

Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	9.853	9.75- 9.95	0.11693
2	10.017	9.92-10.12	0.24717
3	10.371	10.27-10.47	0.09751
4	10.418	10.32-10.52	0.14888
5	10.887	10.79-10.99	0.07715

Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	10.312	10.21-10.41	0.25815
2	1.000	0.90- 1.10	0.23276
3	10.688	10.59-10.79	0.17369
4	11.160	11.06-11.26	0.52035

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 15:29 jraims

Calibration File Names:

- Level 1: /chem2/ecd5.i/20090618.B/ical-2.b/0617B123.d
- Level 2: /chem2/ecd5.i/20090618.B/ical-2.b/0617B125.d
- Level 3: /chem2/ecd5.i/20090618.B/ical-2.b/0617B122.d
- Level 4: /chem2/ecd5.i/20090618.B/ical-2.b/0617B126.d
- Level 5: /chem2/ecd5.i/20090618.B/ical-2.b/0617B124.d
- Level 6: /chem2/ecd5.i/20090618.B/ddt-2.b/0617B133.d
- Level 7: /chem2/ecd5.i/20090618.B/ical-2.b/0617B132.d
- Level 8: /chem2/ecd5.i/20090618.B/ical-2.b/0617B118.d
- Level 9: /chem2/ecd5.i/20090618.B/ical-2.b/0617B120.d
- Level 10: /chem2/ecd5.i/20090618.B/ical-2.b/0617B117.d
- Level 11: /chem2/ecd5.i/20090618.B/ical-2.b/0617B121.d
- Level 12: /chem2/ecd5.i/20090618.B/ical-2.b/0617B119.d

Compound	20		100		250		500		1000		0.0000		Coefficients		%RSD or R ²	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	b	m1		m2
1 Aroclor-1221(1)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.01152		0.000e+00
(2)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.00693		0.000e+00

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds5.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 15:29 j rains

Compound	20		100		250		500		1000		0.0000		Curve	b	Coefficients		m2	RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12			m1			
(3)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.02133			0.000e+00
(4)	0.00273	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.00273			0.000e+00
4 Aroclor-1232(1)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.01851			11.91632
(2)	++++	0.02173	++++	0.01742	++++	0.01607	++++	++++	++++	++++	++++	++++	AVRG		0.01791			14.40129
(3)	++++	0.04073	++++	0.03419	++++	0.02964	++++	++++	++++	++++	++++	++++	AVRG		0.03298			14.50953
(4)	++++	0.01385	++++	0.01278	++++	0.01185	++++	++++	++++	++++	++++	++++	AVRG		0.01280			9.36447
3 Aroclor-1242(1)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.02683			0.000e+00
	0.02683	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG					

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds5.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 15:29 jraims

Compound	20		100		250		500		1000		0.0000		Coefficients		%RSD or R ²	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	b	m1		m2
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
(3)	0.05355	+++++	+++++	+++++	+++++	+++++	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.05355			0.000e+00
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.02138	+++++	+++++	+++++	+++++	+++++	0.02138			0.000e+00
6 Atoclor-1248 (1)	+++++	+++++	+++++	+++++	+++++	+++++	0.01024	+++++	+++++	+++++	+++++	+++++	0.01024			0.000e+00
(2)	0.03494	+++++	+++++	+++++	+++++	+++++	0.03494	+++++	+++++	+++++	+++++	+++++	0.03494			0.000e+00
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02173	+++++	+++++	+++++	+++++	+++++	0.02173			0.000e+00
(4)	0.02759	+++++	+++++	+++++	+++++	+++++	0.02759	+++++	+++++	+++++	+++++	+++++	0.02759			0.000e+00
	+++++	+++++	+++++	+++++	+++++	+++++	0.03578	+++++	+++++	+++++	+++++	+++++	0.03578			0.000e+00

190609 15:29

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 15:29 jraims

Compound	20		100		250		500		1000		0.0000		Coefficients		%RSD or R ²		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	b	m1		m2	
7 Aroclor-1016(1)	0.04715	0.03982	0.03465	0.03216	0.02904	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.03656		19.45340	
	0.09337	0.07772	0.07058	0.06708	0.06238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.07423		16.27286	
(2)	0.03761	0.03133	0.02785	0.02579	0.02381	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.02928		18.54100	
	0.02213	0.01953	0.01851	0.01726	0.01609	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.01871		12.35020	
8 Aroclor-1254(1)	0.04066	0.04066	0.04066	0.04066	0.04066	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.04066		0.000e+00	
	0.02833	0.02833	0.02833	0.02833	0.02833	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.02833		0.000e+00	
(3)	0.05580	0.05580	0.05580	0.05580	0.05580	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.05580		0.000e+00	

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds5.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 15:29 j rains

Compound	20		100		250		500		1000		0.0000		Coefficients		m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	b	m1		
(4)	++++ 0.06265	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.06265		0.000e+00
(5)	++++ 0.03980	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.03980		0.000e+00
10 Aroclor-1262(1)	++++ 0.11693	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.11693		0.000e+00
(2)	++++ 0.24717	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.24717		0.000e+00
(3)	++++ 0.09751	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.09751		0.000e+00
(4)	++++ 0.14888	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.14888		0.000e+00
(5)	++++ 0.07715	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.07715		0.000e+00

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
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 Method file : /chem2/ecds5.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 15:29 j rains

Compound	20 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	0.0000 Level 6	Curve	b	Coefficients ml	m2	%RSD or R ²
9 Arochlor-1260 (1)	298736 ++++	1141191 ++++	2542604 ++++	4926604 ++++	9519769 ++++	0.0000 Level 11 Level 12	++++	0.000e+00	0.06673		0.99653
(2)	780828 ++++	2888752 ++++	6671628 ++++	13205285 ++++	28162314 ++++	++++	++++	0.000e+00	0.19206		0.99930
(3)	210139 ++++	775117 ++++	1728540 ++++	3357902 ++++	6614981 ++++	++++	++++	0.000e+00	0.04611		0.99767
(4)	519029 ++++	1870362 ++++	4250490 ++++	8357278 ++++	16447756 ++++	++++	++++	0.000e+00	0.11454		0.99806
11 Arochlor-1268 (1)	0.25815 ++++	++++	++++	++++	++++	++++	AVRG		0.25815		0.000e+00
(2)	0.23276 ++++	++++	++++	++++	++++	++++	AVRG		0.23276		0.000e+00
(3)	0.17369 ++++	++++	++++	++++	++++	++++	AVRG		0.17369		0.000e+00

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Cal Date : 19-Jun-2009 15:29 j rains

Compound	20		100		250		500		1000		0.0000		Curve	b	Coefficients		m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12			m1			
	250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
(4)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++						
	0.52035	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.52035			0.000e+00
41 2,4-DDE	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	521	AVRG		521			0.000e+00
42 2,4-DDD	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	461	AVRG		461			0.000e+00
44 4,4-DDE	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	755		AVRG		755			0.000e+00
45 4,4-DDD/2,4-DDT	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	591		AVRG		591			0.000e+00
46 4,4-DDT	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	650		AVRG		650			0.000e+00
2 Tetrachloro-m-xylene	1.36426	1.04729	0.99696	0.96341	0.90227	++++	++++	++++	0.90227	++++	++++	++++	AVRG		1.05484			17.14191

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Analytical Resources, Inc.

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 Cal Date : 19-Jun-2009 15:29 jra

Compound	20	100	250	500	1000	0.0000	Curve	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m2	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
Level 7	Level 8	Level 9	Level 10	Level 11	Level 12					
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
\$ 13 Decachlorobiphenyl	503639	1935997	4324935	8623446	16977974	+++++				
-----	-----	-----	-----	-----	-----	-----				
	+++++	+++++	+++++	+++++	+++++	+++++	LINR	0.000e+00	1.47662	0.99830
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Analytical Resources, Inc.

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 Cal Date : 19-Jun-2009 15:29 jrains

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
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 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds5.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 15:29 paul

Calibration File Names:

- Level 1: /chem2/ecds5.i/20090618.B/ical-1.b/0617B123.d
- Level 2: /chem2/ecds5.i/20090618.B/ical-1.b/0617B125.d
- Level 3: /chem2/ecds5.i/20090618.B/ical-1.b/0617B122.d
- Level 4: /chem2/ecds5.i/20090618.B/ical-1.b/0617B126.d
- Level 5: /chem2/ecds5.i/20090618.B/ical-1.b/0617B124.d
- Level 6: /chem2/ecds5.i/20090618.B/ddt-1.b/0617B133.d
- Level 7: /chem2/ecds5.i/20090618.B/ical-1.b/0617B132.d
- Level 8: /chem2/ecds5.i/20090618.B/ical-1.b/0617B118.d
- Level 9: /chem2/ecds5.i/20090618.B/ical-1.b/0617B120.d
- Level 10: /chem2/ecds5.i/20090618.B/ical-1.b/0617B117.d
- Level 11: /chem2/ecds5.i/20090618.B/ical-1.b/0617B121.d
- Level 12: /chem2/ecds5.i/20090618.B/ical-1.b/0617B119.d

Compound	20		100		250		500		1000		0.0000		Coefficients		RSD or R ²	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	b	m1		m2
2 Arochlor-1221(1)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.01130	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	0.01130			0.000e+00
(2)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.00806	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	0.00806			0.000e+00

Analytical Resources, Inc.

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 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds5.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 15:29 paul

Compound	20		100		250		500		1000		0.0000		Coefficients		%RSD or R ²	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	b	m1		m2
(3)	++++ 0.02740	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.02740		0.000e+00
3 Aroclor-1242(1)	++++ 0.01988	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.01988		0.000e+00
(2)	++++ 0.06111	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.06111		0.000e+00
(3)	++++ 0.02590	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.02590		0.000e+00
(4)	++++ 0.02108	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG	0.02108		0.000e+00
4 Aroclor-1232(1)	++++ ++++	++++ 0.02714	++++ 0.02474	++++ 0.02315	++++ 0.02109	++++ 0.01926	++++ 0.01926	++++ 0.01926	++++ 0.01926	++++ 0.01926	++++ 0.01926	++++ 0.01926	AVRG	0.02308		13.33022
(2)	++++ ++++	++++ 0.01439	++++ 0.01260	++++ 0.01162	++++ 0.01086	++++ 0.01012	++++ 0.01012	++++ 0.01012	++++ 0.01012	++++ 0.01012	++++ 0.01012	++++ 0.01012	AVRG	0.01192		13.93126

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Analytical Resources, Inc.

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 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 15:29 paul

Compound	20		100		250		500		1000		0.0000		Curve	b	Coefficients		m2	\$RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12			m1			
(3)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG			0.03567		10.06884
(4)	++++	0.04020	0.03822	0.03532	0.03320	0.03139	0.03000	0.02840	0.02640	0.02440	0.02240	0.02040	AVRG			0.01480		8.29317
7 Aroclor-1016(1)	0.03255	0.02916	0.02547	0.02340	0.02140	0.01940	0.01740	0.01540	0.01340	0.01140	0.00940	0.00740	AVRG			0.02640		16.96843
(2)	0.10101	0.09041	0.07911	0.07360	0.06847	0.06334	0.05821	0.05308	0.04795	0.04282	0.03769	0.03256	AVRG			0.08252		15.94425
(3)	0.04423	0.03861	0.03332	0.03055	0.02804	0.02553	0.02302	0.02051	0.01800	0.01549	0.01298	0.01047	AVRG			0.03495		18.61306
(4)	0.03103	0.02599	0.02292	0.02140	0.02000	0.01857	0.01714	0.01571	0.01428	0.01285	0.01142	0.01000	AVRG			0.02427		18.07694
6 Aroclor-1248(1)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG			0.03974		0.000e+00
	0.03974												AVRG			0.03974		0.000e+00

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Analytical Resources, Inc.

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 Cal Date : 19-Jun-2009 15:29 paul

Compound	20		100		250		500		1000		0.0000		Curve	Coefficients		m2	RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12		b	m1		
(2)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.02750			0.000e+00
(3)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.03123			0.000e+00
(4)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.04640			0.000e+00
8 Arochlor-1254 (1)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.05524			0.000e+00
(2)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.03530			0.000e+00
(3)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.06695			0.000e+00
(4)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG	0.07019			0.000e+00

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Compound	20		100		250		500		1000		0.0000		Coefficients		%RSD or R^2		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	Curve	b		m1	m2
(5)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.04164	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.04164		0.000e+00
9 Aroclor-1260(1)	383845	1454150	3191076	6066332	11459573	++++	++++	++++	++++	++++	++++	++++	LINR	0.000e+00	0.07478		0.99383
(2)	361407	1371435	3029407	5792082	10998974	++++	++++	++++	++++	++++	++++	++++	LINR	0.000e+00	0.07162		0.99463
(3)	865490	3339193	7484891	14529829	27807193	++++	++++	++++	++++	++++	++++	++++	LINR	0.000e+00	0.18039		0.99601
(4)	505845	1761094	3885622	7414403	14200661	++++	++++	++++	++++	++++	++++	++++	LINR	0.000e+00	0.09226		0.99508
(5)	241411	900204	1996732	3814036	7275898	++++	++++	++++	++++	++++	++++	++++	LINR	0.000e+00	0.04731		0.99500
10 Aroclor-1262(1)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.10556		0.000e+00
	0.10556	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++					

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Analytical Resources, Inc.

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Compound	20		100		250		500		1000		0.0000		Coefficients		%RSD or R ²	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	b	m1		m2
(2)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.25182	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	0.25182			0.000e+00
(3)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.10308	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	0.10308			0.000e+00
(4)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.10997	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	0.10997			0.000e+00
(5)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.08635	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	0.08635			0.000e+00
11 Aroclor-1268 (1)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.28477	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	0.28477			0.000e+00
(2)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.27409	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	0.27409			0.000e+00
(3)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++				
	0.21414	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	0.21414			0.000e+00

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Analytical Resources, Inc.
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Compound	20		100		250		500		1000		0.0000		Coefficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12			
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
	0.60738	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.60738		0.000e+00
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	579	+++++	579		0.000e+00
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	519	+++++	519		0.000e+00
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	619	+++++	619		0.000e+00
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	809	+++++	809		0.000e+00
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	622	+++++	622		0.000e+00
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	693	+++++	693		0.000e+00
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

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Analytical Resources, Inc.

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 Cal Date : 19-Jun-2009 15:29 paul

Compound	20		100		250		500		1000		0.0000		Coefficients ml m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12		
\$ 1 Tetrachloro-m-Xylene	1.55441	1.27078	1.11218	1.04733	0.98408	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.19376	19.10534
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++		
\$ 13 Decachlorobiphenyl	768081	2620248	5725192	11197592	21484900	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.74082	0.99592
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++		

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds5.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 15:29 paul

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20090618.B/ddt-1.b/0617B133.d

ARI ID: 0.1 PPM DDTS

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
7.610	0.000	22105100	8.321	0.000	20155046	0.100	0.100	0.0	2,4-DDE
8.056	0.000	19816770	8.825	0.000	17822624	0.100	0.100	0.0	2,4-DDD
8.446	0.000	23624468	2.779	0.000	30942684	0.100	----	---	2,4-DDT
7.952	0.000	30878422	8.593	0.000	29211267	0.100	0.100	0.0	4,4-DDE
8.396	0.000	23746184	9.145	0.000	45731209	0.100	0.200	---	4,4-DDD
8.777	0.000	26441586	9.453	0.000	25149519	0.100	0.100	0.0	4,4-DDT

7E
8082 DDT BREAKDOWN VERIFICATION SUMMARY

Lab ID: DDT BD

Analysis Date: 18-JUN-2009 21:53 Init. Calib. Date: 18-JUN-2009

GC Column: ZB5 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4-DDE	8.001	350095
4,4-DDD	8.398	1112394
4,4-DDT	8.777	26850051

Col 1: 4,4-DDT Percent Breakdown = 5.2 %

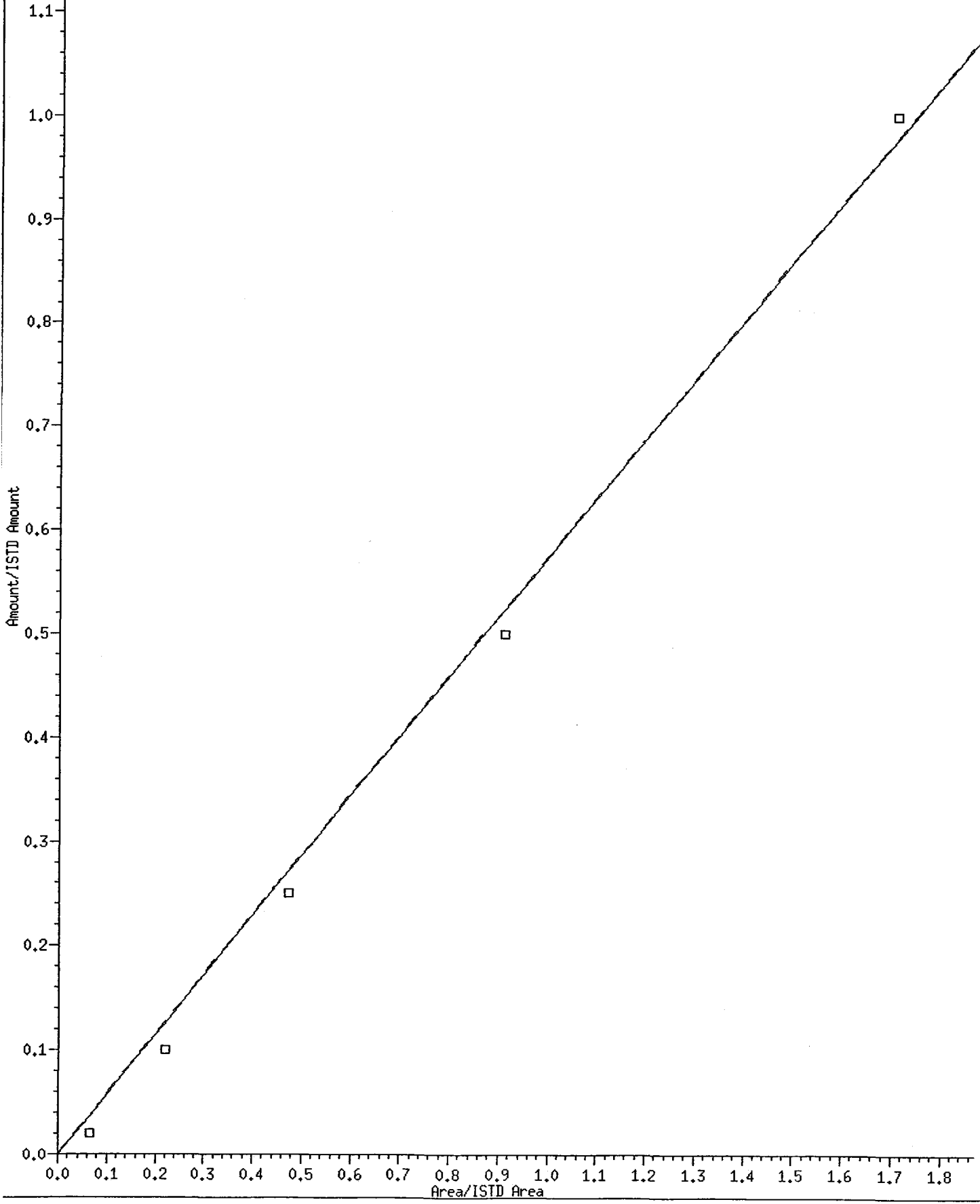
GC Column: ZB35 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4-DDE	8.654	821202
4,4-DDD/2,4-DDT	9.143	798866
4,4-DDT	9.453	27251044

Col 2: 4,4-DDT Percent Breakdown = 5.6 %

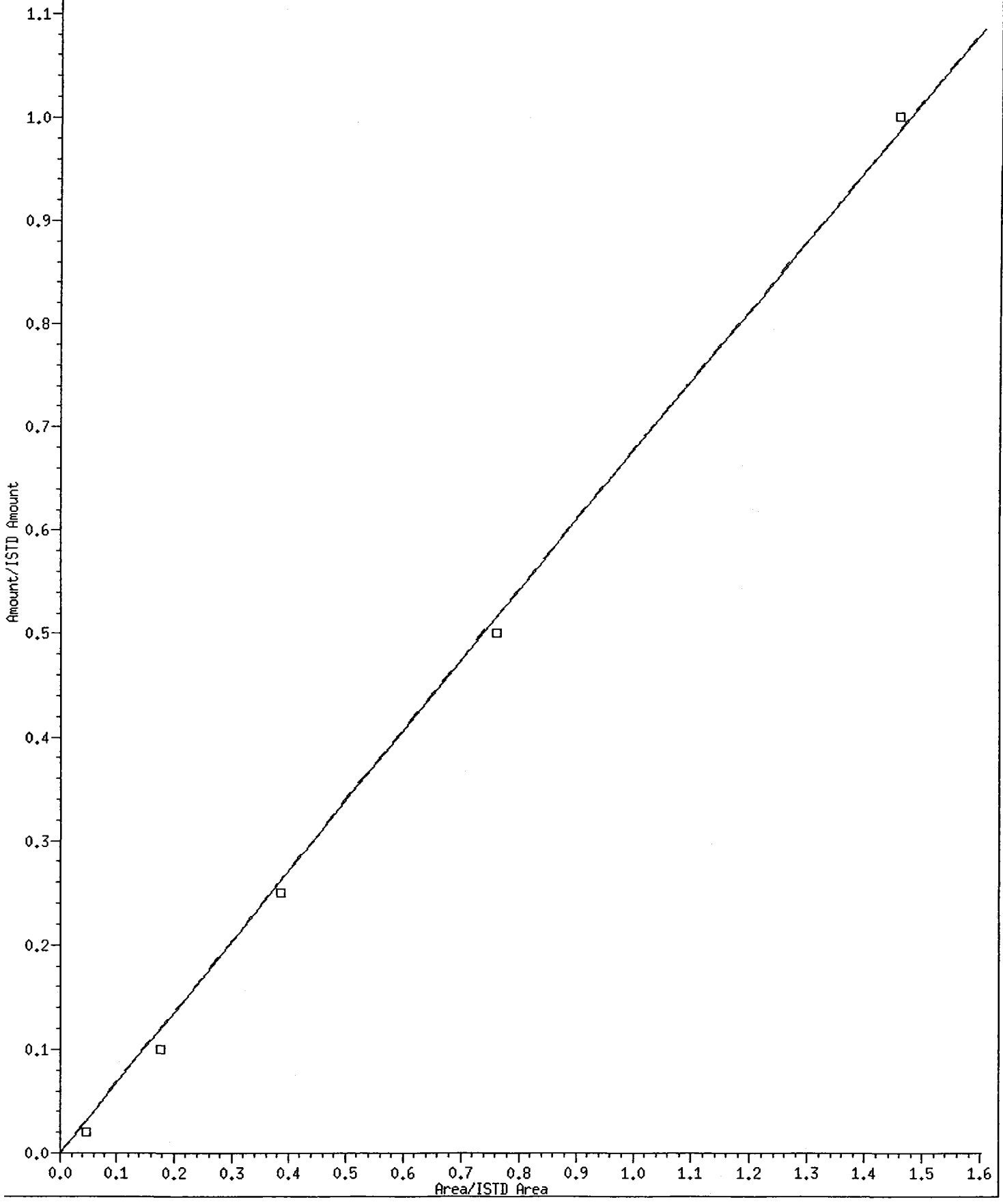
* 13 Decachlorobiphenyl

Curve Type: Linear By-Response
Amt = 0 + Rsp/1.740821
R²: 0.9959246



‡ 13 Decachlorobiphenyl

Curve Type: Linear By-Response
Amt = 0 + Rsp/1.476619
R²: 0.9982961



Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B116.d
Data file 2: 20090618.B/ical-2.b/0617B116.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 18-JUN-2009 16:42
Report Date: 06/19/2009 09:58
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.189	-0.006 16400153	4.680 -0.001 15385891	36.2	38.3	5.7	Tetrachloro-m-xylene	
10.917	0.001 10553843	11.503 0.002 8396092	42.7	42.6	0.4	Decachlorobiphenyl	

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	90.5	95.8
Decachlorobiphenyl	106.8	106.4

jc 06/19/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30353085	-1.4
Hexabromobiphenyl	12091267	11348250	-6.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	30437848	-2.5
Hexabromobiphenyl	11173293	10687181	-4.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
-< Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
=====											
Aroclor-1016	1	---			0.0	1	---			0.0	
Aroclor-1016	2	---			0.0	2	---			0.0	
Aroclor-1016	3	---			0.0	3	---			0.0	
Aroclor-1016	4	---			0.0	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1221	1	---			0.0	1	5.327	0.039	183955	42.0	
Aroclor-1221	2	---			0.0	2	---			0.0	
Aroclor-1221	3	---			0.0	3	5.642	0.023	16148	2.0	
Aroclor-1221	NS	---			----	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1232	1	---			0.0	1	---			0.0	
Aroclor-1232	2	---			0.0	2	---			0.0	
Aroclor-1232	3	---			0.0	3	---			0.0	
Aroclor-1232	4	---			0.0	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1242	1	---			0.0	1	---			0.0	
Aroclor-1242	2	---			0.0	2	---			0.0	
Aroclor-1242	3	---			0.0	3	---			0.0	
Aroclor-1242	4	---			0.0	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1248	1	---			0.0	1	---			0.0	
Aroclor-1248	2	---			0.0	2	---			0.0	
Aroclor-1248	3	---			0.0	3	7.654	0.000	12663	1.2	
Aroclor-1248	4	---			0.0	4	8.010	0.001	27275	2.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1254	1	---			0.0	1	8.249	0.002	19882	1.3	
Aroclor-1254	2	---			0.0	2	8.656	0.001	13749	1.3	
Aroclor-1254	3	---			0.0	3	8.767	0.000	35434	1.7	
Aroclor-1254	4	8.328	0.004	39160	1.5	4	8.931	0.001	50604	2.1	
Aroclor-1254	5	8.606	0.003	31139	2.0	5	9.323	-0.002	44586	2.9	
CollAve: <3 Quant Peaks					Col2Ave: 1.9						
Aroclor-1260	1	---			0.0	1	9.535	0.000	10681	1.2	
Aroclor-1260	2	---			0.0	2	10.019	0.001	21445	0.8	
Aroclor-1260	3	---			0.0	3	10.372	-0.002	21618	3.5	
Aroclor-1260	4	---			0.0	4	10.420	0.002	27818	1.8	
Aroclor-1260	5	---			0.0	NS	---			----	
CollAve: <3 Quant Peaks					Col2Ave: 1.8						
Aroclor-1262	1	---			0.0	1	9.860	0.007	32212	2.1	
Aroclor-1262	2	---			0.0	2	10.019	0.002	21445	0.6	
Aroclor-1262	3	---			0.0	3	10.372	0.001	21618	1.7	
Aroclor-1262	4	---			0.0	4	10.420	0.002	27818	1.4	
Aroclor-1262	5	---			0.0	5	10.836	-0.051	224167	21.7	
CollAve: <3 Quant Peaks					Col2Ave: 5.5						
Aroclor-1268	1	9.874	0.054	29092	0.7	1	10.372	0.001	21618	0.6	
Aroclor-1268	2	---			0.0	2	10.420	0.003	27818	0.9	
Aroclor-1268	3	10.134	0.003	21829	0.7	3	---			0.0	
Aroclor-1268	4	10.658	0.013	148357	1.7	4	11.216	0.000	18102	0.3	
Total CollAve (3 peaks):				1.1	Total Col2Ave (3 peaks):				0.6	RPD = 56*	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						

Total PCB Area Coll1 (4.294 - 10.816) = 831592

Coll1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (4.781 - 11.402) = 1125514

Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 14:54 jrains

Calibration File Names:
 Level 1: /chem2/ecds.i/20090618.B/ical-2.b/0617B123.d
 Level 2: /chem2/ecds.i/20090618.B/ical-2.b/0617B125.d
 Level 3: /chem2/ecds.i/20090618.B/ical-2.b/0617B122.d
 Level 4: /chem2/ecds.i/20090618.B/ical-2.b/0617B126.d
 Level 5: /chem2/ecds.i/20090618.B/ical-2.b/0617B124.d
 Level 6: /chem2/ecds.i/20090618.B/ddt-2.b/0617B133.d
 Level 7: /chem2/ecds.i/20090618.B/ical-2.b/0617B132.d
 Level 8: /chem2/ecds.i/20090618.B/ical-2.b/0617B118.d
 Level 9: /chem2/ecds.i/20090618.B/ical-2.b/0617B120.d
 Level 10: /chem2/ecds.i/20090618.B/ical-2.b/0617B117.d
 Level 11: /chem2/ecds.i/20090618.B/ical-2.b/0617B121.d
 Level 12: /chem2/ecds.i/20090618.B/ical-2.b/0617B119.d

Compound	20	100	250	500	1000	0.0000	0.0000	Curve	b	Coefficients	\$RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 12			m1	or R ²
1 Aroclor-1221 (1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.01152	0.000e+00
	0.01152										
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.00693	0.000e+00
	0.00693										

09109 : 1004

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 14:54 jrairns

Compound	20	100	250	500	1000	0.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
6 Atoclor-1248(1)	250	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG				
	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12					
	+++++	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
	0.05355	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
		+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
	(3)	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
	0.02138	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
		+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
	(4)	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
	0.01024	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
		+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
	0.03494	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00
(2)	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00	
0.02173	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00	
(3)	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00	
0.02759	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00	
(4)	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00	
0.03578	+++++	+++++	+++++	+++++	+++++	AVRG				0.000e+00	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 14:54 jrains

Compound	20	100	250	500	1000	0.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
(4)	0.06265	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG		0.06265		0.000e+00
(5)	0.03980	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG		0.03980		0.000e+00
10 Aroclor-1262(1)	0.11693	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG		0.11693		0.000e+00
(2)	0.24717	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG		0.24717		0.000e+00
(3)	0.09751	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG		0.09751		0.000e+00
(4)	0.14888	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG		0.14888		0.000e+00
(5)	0.07715	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG		0.07715		0.000e+00

2009 JUN 19 14:55

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 14:54 jrains

Compound	20	100	250	500	1000	0.0000	Level 6	Curve	b	Coefficients		%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 12			m1	m2	or R ²
9 Aroclor-1260(1)	298736 +++++	1141191 +++++	2542604 +++++	4926604 +++++	9519769 +++++	+++++	+++++	LINR	0.000e+00	0.06673		0.99653
(2)	780828 +++++	2888752 +++++	6671628 +++++	13205285 +++++	28162314 +++++	+++++	+++++	LINR	0.000e+00	0.19206		0.99930
(3)	210139 +++++	775117 +++++	1728540 +++++	3357902 +++++	6614981 +++++	+++++	+++++	LINR	0.000e+00	0.04611		0.99767
(4)	519029 +++++	1870362 +++++	4250490 +++++	8357278 +++++	16447756 +++++	+++++	+++++	LINR	0.000e+00	0.11454		0.99806
11 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.25815		0.000e+00
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.23276		0.000e+00
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.17369		0.000e+00

01185 .. 1800

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 14:54 jraims

Compound	Level												Curve	b	Coefficients		%RSD or R ²
	1	2	3	4	5	6	7	8	9	10	11	12			m1	m2	
20	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12					
	250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
41 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	521	AVRG	521	0.000e+00	
	0.52035	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.52035			
42 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	461	AVRG	461	0.000e+00	
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG				
44 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	755	AVRG	755	0.000e+00	
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG				
45 4,4-DDD/2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	591	AVRG	591	0.000e+00	
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG				
46 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	650	AVRG	650	0.000e+00	
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG				
5 2 Tetrachloro-m-xylene	1.36426	1.04729	0.99696	0.96341	0.90227	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.05484			17.14191	
	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG				

11 10 09 14 54 JRA

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB2.m
 Cal Date : 19-Jun-2009 14:54 jrains

Compound	Level												Curve	b	Coefficients		\$RSD or R^2
	20	100	250	500	1000	0.0000	Level 6	Level 12	m1	m2							
\$ 13 Decachlorobiphenyl	5036391	19359971	4324935	8623446	16977974	+++++	+++++	+++++	+++++	+++++	+++++	+++++	LINR	0.000e+00	1.47662	0.99830	

02 11 09 .. 10 00 11

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
End Cal Date : 18-JUN-2009 21:36
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecds.i/20090618.B/PCB2.m
Cal Date : 19-Jun-2009 14:54 jrains

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

01199 : 1000

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method File : /chem2/ecds.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 14:58 jrains

Calibration File Names:
 Level 1: /chem2/ecds.i/20090618.B/ical-1.b/0617B123.d
 Level 2: /chem2/ecds.i/20090618.B/ical-1.b/0617B125.d
 Level 3: /chem2/ecds.i/20090618.B/ical-1.b/0617B122.d
 Level 4: /chem2/ecds.i/20090618.B/ical-1.b/0617B126.d
 Level 5: /chem2/ecds.i/20090618.B/ical-1.b/0617B124.d
 Level 6: /chem2/ecds.i/20090618.B/ddt-1.b/0617B133.d
 Level 7: /chem2/ecds.i/20090618.B/ical-1.b/0617B132.d
 Level 8: /chem2/ecds.i/20090618.B/ical-1.b/0617B118.d
 Level 9: /chem2/ecds.i/20090618.B/ical-1.b/0617B120.d
 Level 10: /chem2/ecds.i/20090618.B/ical-1.b/0617B117.d
 Level 11: /chem2/ecds.i/20090618.B/ical-1.b/0617B121.d
 Level 12: /chem2/ecds.i/20090618.B/ical-1.b/0617B119.d

Compound	20	100	250	500	1000	0.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6				
	250	0.0000	0.0000	0.0000	0.0000	0.0000				
	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12				
2 Aroclor-1221 (1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.01130	0.000e+00
	0.01130	+++++	+++++	+++++	+++++	+++++				
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.00806	0.000e+00
	0.00806	+++++	+++++	+++++	+++++	+++++				

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 14:58 jrains

Compound	20	100	250	500	1000	0.0000	Curve	b	Coefficients	m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	250	0.0000	0.0000	0.0000	0.0000	0.0000						
	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12						
(3)	+++++	+++++	+++++	+++++	+++++	+++++						
	0.02740	+++++	+++++	+++++	+++++	+++++	AVRG		0.02740			0.000e+00
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.01988			0.000e+00
	0.01988	+++++	+++++	+++++	+++++	+++++						
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	0.06111	+++++	+++++	+++++	+++++	+++++	AVRG		0.06111			0.000e+00
(3)	+++++	+++++	+++++	+++++	+++++	+++++						
	0.02590	+++++	+++++	+++++	+++++	+++++	AVRG		0.02590			0.000e+00
(4)	+++++	+++++	+++++	+++++	+++++	+++++						
	0.02108	+++++	+++++	+++++	+++++	+++++	AVRG		0.02108			0.000e+00
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	0.02714	+++++	+++++	+++++	+++++	+++++	AVRG		0.02308			13.33022
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	0.01439	+++++	+++++	+++++	+++++	+++++	AVRG		0.01192			13.93126

001188 : 1504

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method File : /chem2/ecds.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 14:58 jra:ins

Compound	Level												Curve	b	Coefficients		%RSD or R ²
	20 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	0.0000 Level 6	0.0000 Level 7	0.0000 Level 8	0.0000 Level 9	0.0000 Level 10	0.0000 Level 11	0.0000 Level 12			m1	m2	
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++					10.06884
	0.04020	0.03822	0.03532	0.03320	0.03139	AVRG							0.03567				
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++					8.29317
	0.01513	0.01645	0.01512	0.01411	0.01318	AVRG							0.01480				
7 Aroclor-1016(1)	0.03255	0.02916	0.02547	0.02340	0.02140	+++++							0.02640				16.96843
	+++++	+++++	+++++	+++++	+++++	AVRG											
(2)	0.10101	0.09041	0.07911	0.07360	0.06847	+++++							0.08252				15.94425
	+++++	+++++	+++++	+++++	+++++	AVRG											
(3)	0.04423	0.03861	0.03332	0.03055	0.02804	+++++							0.03495				18.61306
	+++++	+++++	+++++	+++++	+++++	AVRG											
(4)	0.03103	0.02599	0.02292	0.02140	0.02000	+++++							0.02427				18.07694
	+++++	+++++	+++++	+++++	+++++	AVRG											
6 Aroclor-1248(1)	0.03974	0.03974	0.03974	0.03974	0.03974	+++++							0.03974				0.000e+00
	+++++	+++++	+++++	+++++	+++++	AVRG											

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 14:58 jrains

Compound	Level												Curve	b	Coefficients		%RSD or R^2
	20	100	250	500	1000	0.0000	0.0000	0.0000	0.0000	m1	m2						
(2)	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	AVRG				0.000e+00
	0.02750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG				0.000e+00
(3)	0.03123	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG				0.000e+00
(4)	0.04640	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG				0.000e+00
8 Atoclor-1254(1)	0.05524	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG				0.000e+00
(2)	0.03530	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG				0.000e+00
(3)	0.06695	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG				0.000e+00
(4)	0.07019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG				0.000e+00

09/19/09 14:58:24

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 14:58 jrains

Compound	Coefficients												Curve	b	Coefficients		%RSD or R ²
	20 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	0.0000 Level 6	m1	m2									
(5)	0.04164	+++++	+++++	+++++	+++++	+++++	AVRG	0.04164					0.000e+00				
9 Aroclor-1260(1)	383845	1454150	3191076	6066332	11459573	+++++	LINR	0.000e+00	0.07478				0.99383				
(2)	361407	1371435	3029407	5792082	10998974	+++++	LINR	0.000e+00	0.07162				0.99463				
(3)	865490	3339193	7484891	14529829	27807193	+++++	LINR	0.000e+00	0.18039				0.99601				
(4)	505845	1761094	3885622	7414403	14200661	+++++	LINR	0.000e+00	0.09226				0.99508				
(5)	241411	900204	1996732	3814036	7275898	+++++	LINR	0.000e+00	0.04731				0.99500				
10 Aroclor-1262(1)	0.10556	+++++	+++++	+++++	+++++	+++++	AVRG	0.10556					0.000e+00				

19192 : 1904

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 14:58 jrains

Compound	20	100	250	500	1000	0.0000	Curve	b	Coefficients		%RSD or R ²					
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2						
(2)	250	0.0000	0.0000	0.0000	0.0000	0.0000										
	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12										
	+++++	+++++	+++++	+++++	+++++	+++++										
	0.25182	+++++	+++++	+++++	+++++	+++++	AVRG		0.25182		0.000e+00					
	(3)	+++++	+++++	+++++	+++++	+++++	+++++									
		0.10308	+++++	+++++	+++++	+++++	+++++	AVRG		0.10308		0.000e+00				
		(4)	+++++	+++++	+++++	+++++	+++++	+++++								
			0.10997	+++++	+++++	+++++	+++++	+++++	AVRG		0.10997		0.000e+00			
			(5)	+++++	+++++	+++++	+++++	+++++	+++++							
				0.08635	+++++	+++++	+++++	+++++	+++++	AVRG		0.08635		0.000e+00		
				11 Aroclor-1268 (1)	+++++	+++++	+++++	+++++	+++++	+++++						
					0.28477	+++++	+++++	+++++	+++++	+++++	AVRG		0.28477		0.000e+00	
(2)					+++++	+++++	+++++	+++++	+++++	+++++						
					0.27409	+++++	+++++	+++++	+++++	+++++	AVRG		0.27409		0.000e+00	
					(3)	+++++	+++++	+++++	+++++	+++++	+++++					
						0.21414	+++++	+++++	+++++	+++++	+++++	AVRG		0.21414		0.000e+00

22155 : 10521

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 14:58 jrains

Compound	20	100	250	500	1000	0.0000	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients	m1	m2	%RSD
42 2,4-DDE	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG	579	AVRG	579		0.000e+00
43 2,4-DDD	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG	519	AVRG	519		0.000e+00
44 2,4-DDT	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG	619	AVRG	619		0.000e+00
46 4,4-DDE	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG	809	AVRG	809		0.000e+00
47 4,4-DDD	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG	622	AVRG	622		0.000e+00
48 4,4-DDT	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	AVRG	693	AVRG	693		0.000e+00
(4)	0.60738	0.60738	0.60738	0.60738	0.60738	0.60738	0.60738	0.60738	0.60738	0.60738	0.60738	0.60738	AVRG	0.60738	AVRG	0.60738		0.000e+00

04159 : 1001

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
 End Cal Date : 18-JUN-2009 21:36
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecds.i/20090618.B/PCB1.m
 Cal Date : 19-Jun-2009 14:58 jrains

Compound	Level												Curve	b	Coefficients		%RSD or R ²
	20	100	250	500	1000	0.0000	Level 6	Level 11	Level 12	m1	m2						
\$ 1 Tetrachloro-m-xylene	1.55441	1.27078	1.11218	1.04733	0.98408	+++++	+++++	AVRG		1.19376		19.10534					
	+++++	+++++	+++++	+++++	+++++	+++++	+++++										
\$ 13 Decachlorobiphenyl	768081	2620248	5725192	11197592	21484900	+++++	+++++	LINR	0.000e+00	1.74082		0.99592					
	+++++	+++++	+++++	+++++	+++++	+++++	+++++										

HP GENIE ISTD

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2009 17:00
End Cal Date : 18-JUN-2009 21:36
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecds.i/20090618.B/PCB1.m
Cal Date : 19-Jun-2009 14:58 jrains

Curve	Formula	Units
Averaged	Amt = Resp/ml	Response
Linear	Amt = b + Resp/ml	Response

19 JUN 2009 14:58

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B116.d
Data file 2: 20090618.B/ical-2.b/0617B116.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 18-JUN-2009 16:42
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.189	-0.002	16400153	4.680	-0.001	15385891	36.2	38.3	5.7	Tetrachloro-m-xylene
10.917	-0.001	10553843	11.503	0.000	8396092	42.7	42.6	0.4	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	90.5	95.8
Decachlorobiphenyl	106.8	106.4

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30353085	-1.4
Hexabromobiphenyl	12091267	11348250	-6.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	30437848	-2.5
Hexabromobiphenyl	11173293	10687181	-4.4

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	5.327	0.039	183955	42.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	5.642	0.023	16148	2.0
Aroclor-1221	NS	---			----	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	7.654	0.000	12663	1.2
Aroclor-1248	4	---			0.0	4	8.010	-0.001	27275	2.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	8.249	0.002	19882	1.3
Aroclor-1254	2	---			0.0	2	8.656	0.001	13749	1.3
Aroclor-1254	3	---			0.0	3	8.767	0.000	35434	1.7
Aroclor-1254	4	8.328	0.005	39160	1.5	4	8.931	0.000	50604	2.1
Aroclor-1254	5	8.606	0.005	31139	2.0	5	9.323	-0.002	44586	2.9
CollAve: <3 Quant Peaks						Col2Ave: 1.9				
Aroclor-1260	1	---			0.0	1	9.535	-0.001	10681	1.2
Aroclor-1260	2	---			0.0	2	10.019	0.000	21445	0.8
Aroclor-1260	3	---			0.0	3	10.372	-0.003	21618	3.5
Aroclor-1260	4	---			0.0	4	10.420	0.001	27818	1.8
Aroclor-1260	5	---			0.0	NS	---			----
CollAve: <3 Quant Peaks						Col2Ave: 1.8				
Aroclor-1262	1	---			0.0	1	9.860	0.007	32212	2.1
Aroclor-1262	2	---			0.0	2	10.019	0.002	21445	0.6
Aroclor-1262	3	---			0.0	3	10.372	0.001	21618	1.7
Aroclor-1262	4	---			0.0	4	10.420	0.002	27818	1.4
Aroclor-1262	5	---			0.0	5	10.836	-0.051	224167	21.7
CollAve: <3 Quant Peaks						Col2Ave: 5.5				
Aroclor-1268	1	9.874	0.054	29092	0.7	1	10.372	0.002	21618	0.6
Aroclor-1268	2	---			0.0	2	10.420	0.003	27818	0.9
Aroclor-1268	3	10.134	0.003	21829	0.7	3	---			0.0
Aroclor-1268	4	10.658	0.014	148357	1.7	4	11.216	0.002	18102	0.3
Total CollAve (3 peaks): 1.1						Total Col2Ave (3 peaks): 0.6 RPD = 56*				
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				

Total PCB Area Coll (4.291 - 10.817) = 831592

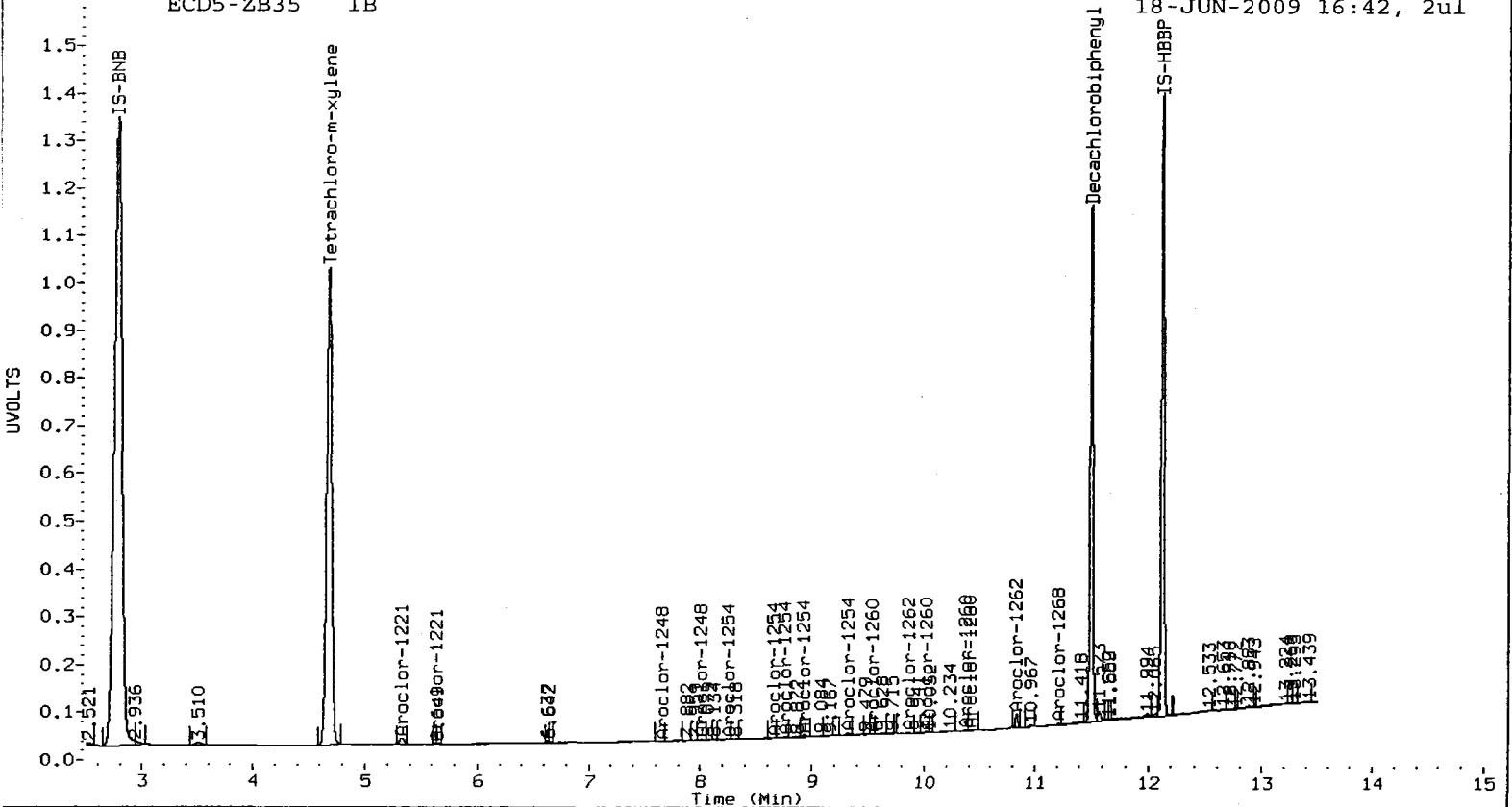
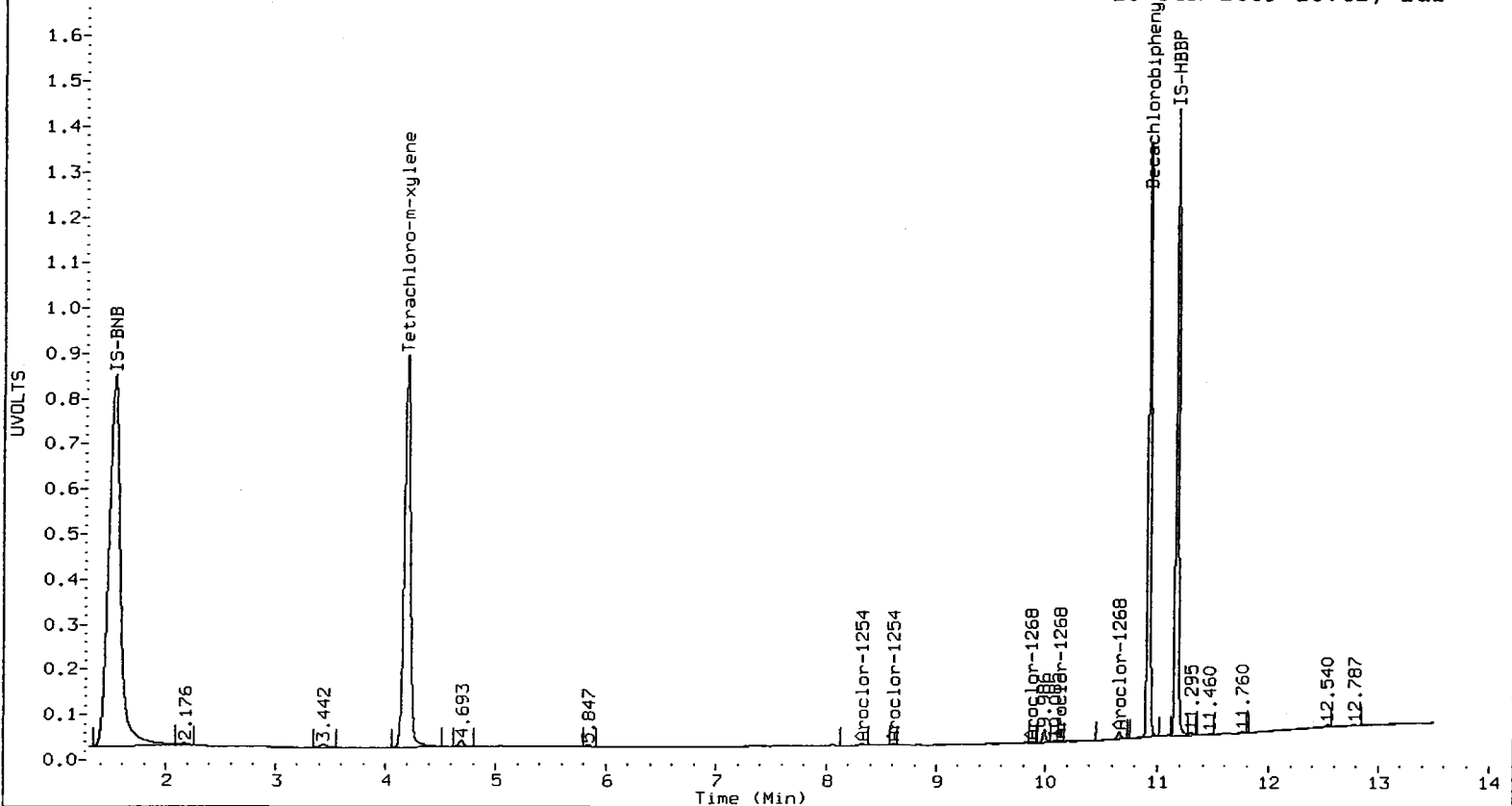
Coll Total PCB = 0.0 ppm*

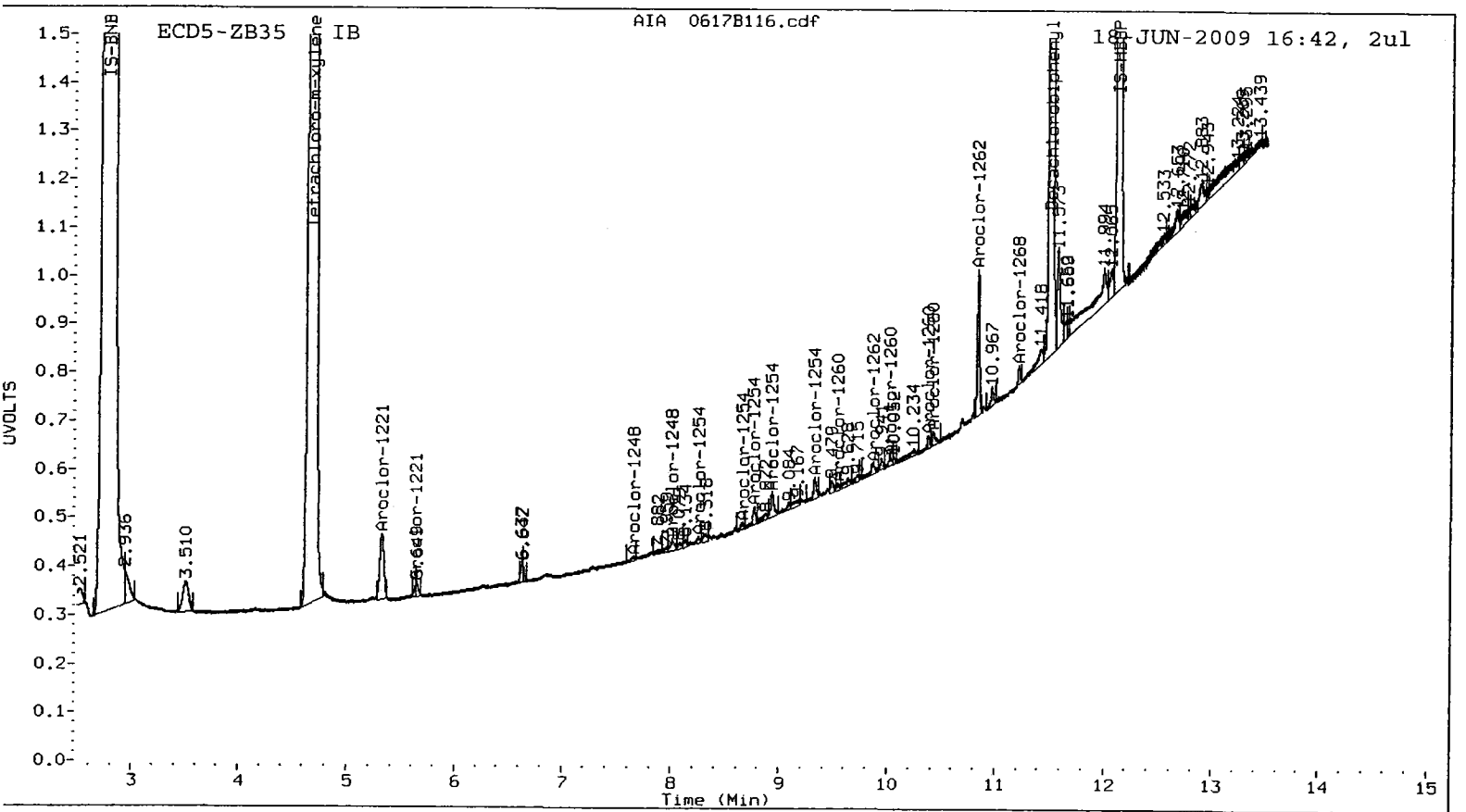
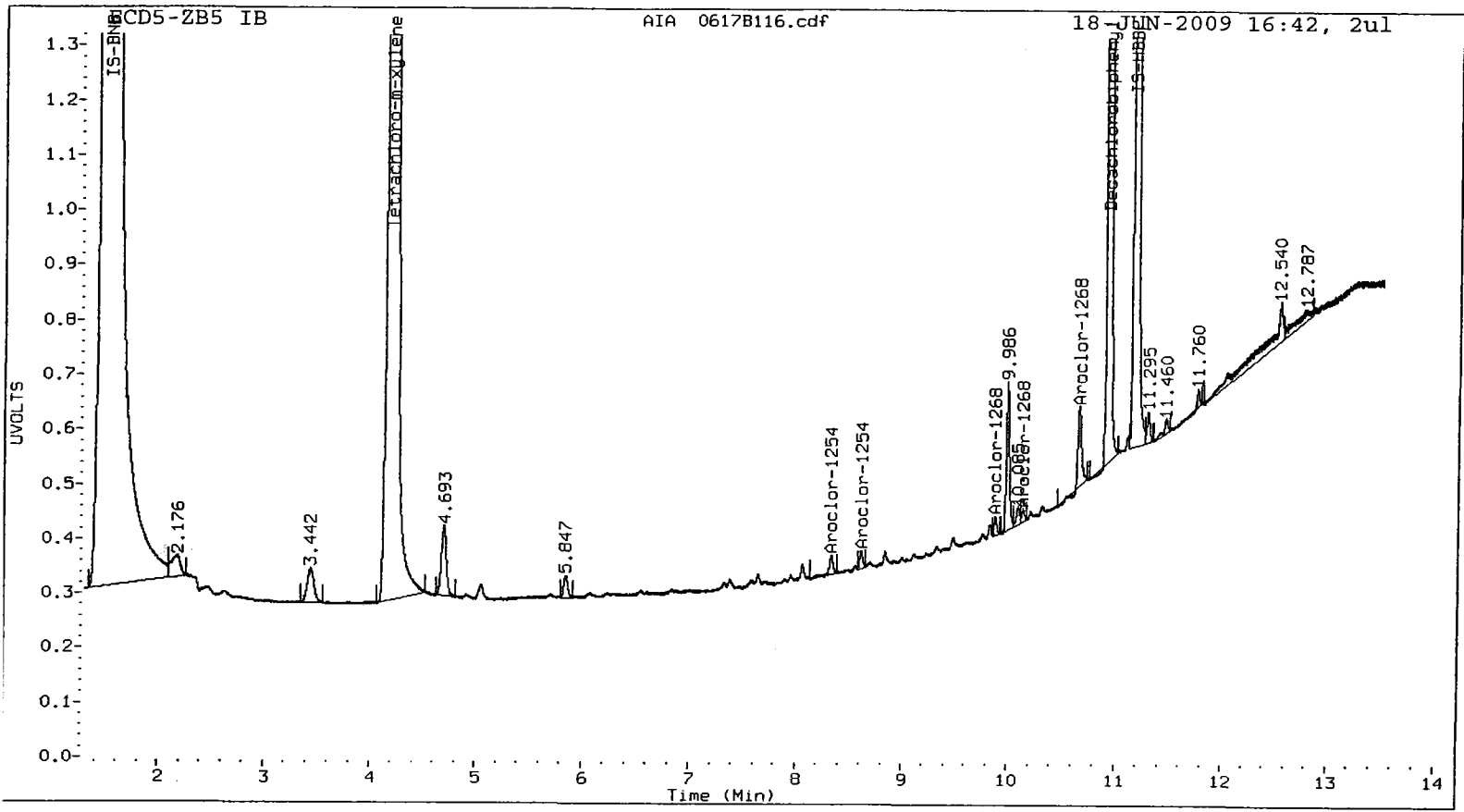
Total PCB Area Col2 (4.781 - 11.403) = 1125514

Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B117.d
Data file 2: 20090618.B/ical-2.b/0617B117.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1232
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1232 250
Client ID:
Injection Date: 18-JUN-2009 17:00
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.186	-0.005	8076343	4.678	-0.003	7095656	18.1	18.1	0.3	Tetrachloro-m-xylene
10.916	-0.001	5201357	11.502	-0.001	3958051	20.8	20.1	3.6	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	45.2	45.3
Decachlorobiphenyl	52.1	50.2

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	29940727	-2.8
Hexabromobiphenyl	12091267	11475718	-5.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	29694923	-4.9
Hexabromobiphenyl	11173293	10677479	-4.4

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1232	1	4.788	0.003	2165997	250.8	1	5.618	-0.001	1679146	244.4	
Aroclor-1232	2	5.701	0.003	1086846	243.6	2	6.262	0.001	1616196	243.1	
Aroclor-1232	3	6.076	0.001	3304778	247.6	3	6.844	0.004	2915821	238.2	
Aroclor-1232	4	6.220	0.002	1414630	255.4	4	7.045	0.001	1186269	249.6	
Total Col1Ave (4 peaks):				249.4		Total Col2Ave (4 peaks):				243.8	RPD = 2
Corrected Ave (3 peaks):				247.3		Corrected Ave (3 peaks):				241.9	RPD = 2

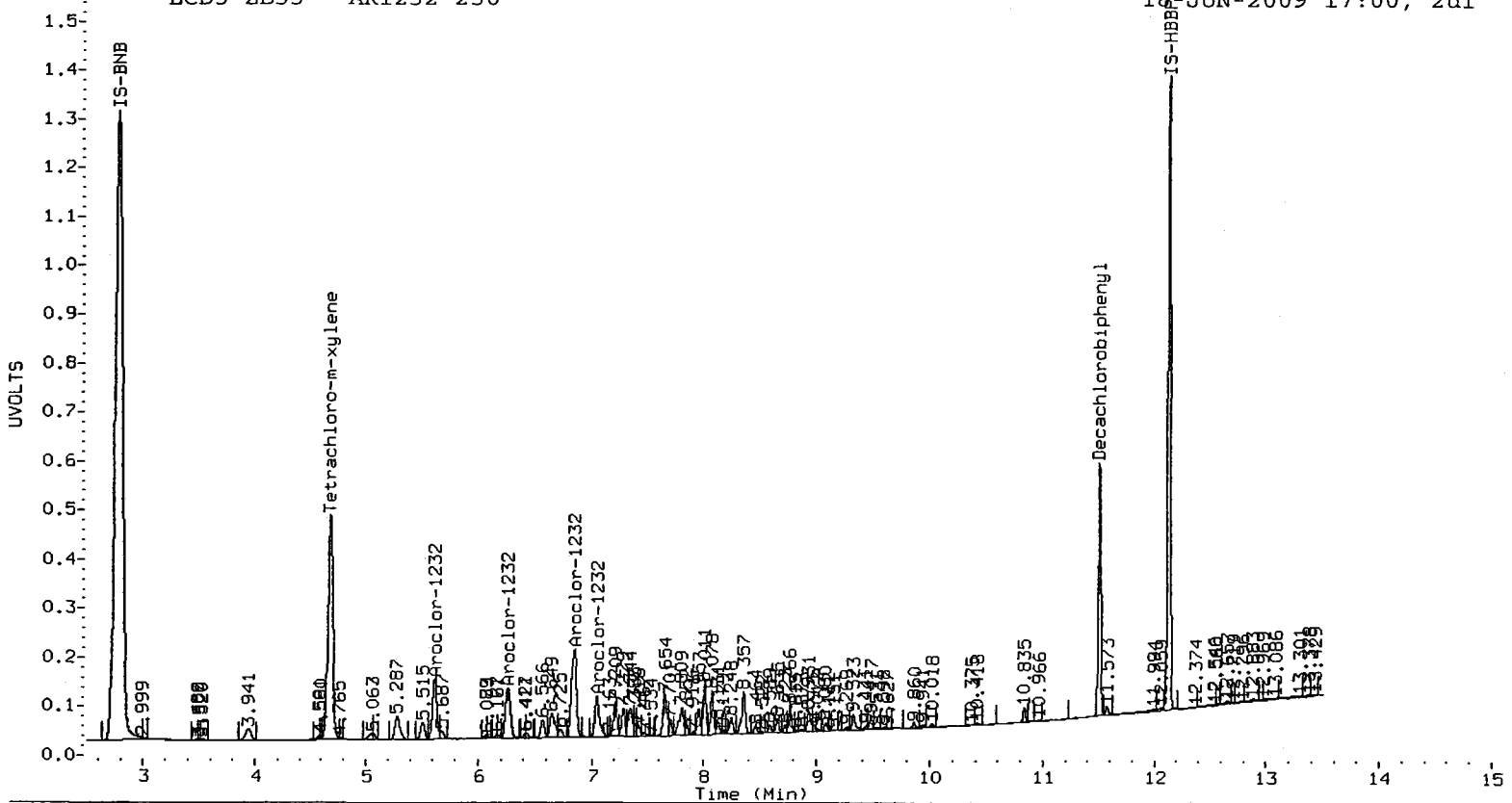
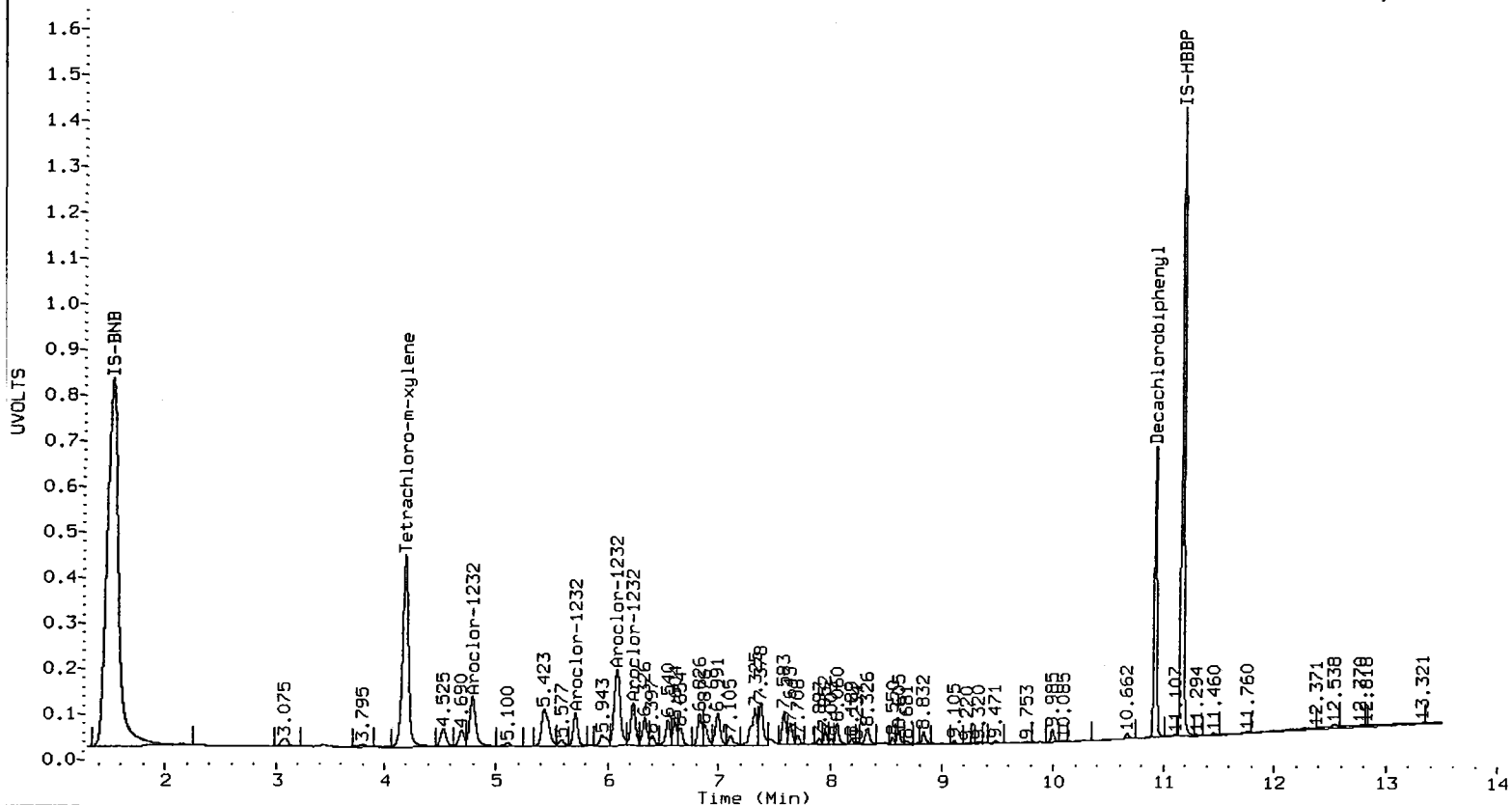
Total PCB Area Col1 (4.291 - 10.817) = 26114217 Col1 Total PCB = 0.1 ppm*

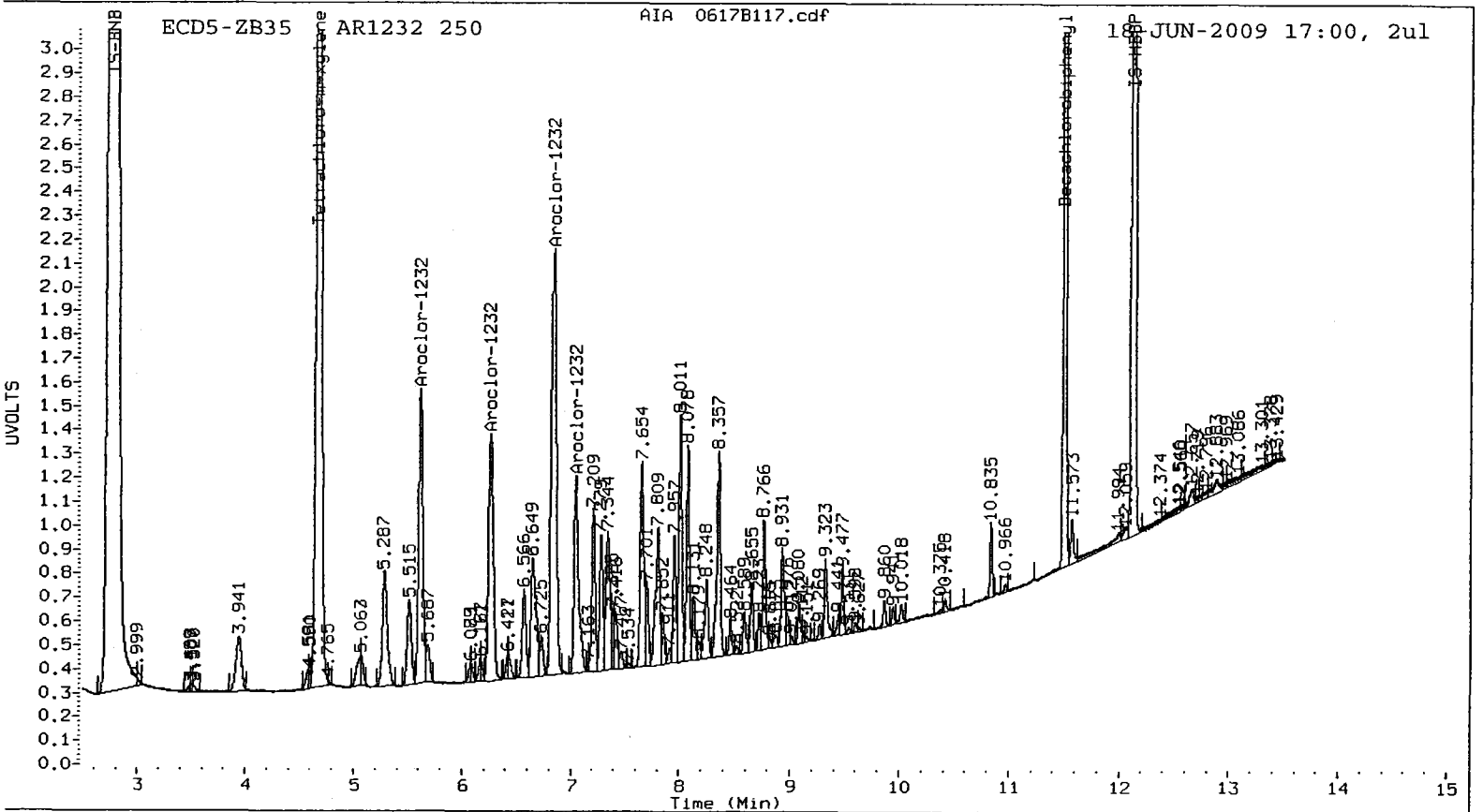
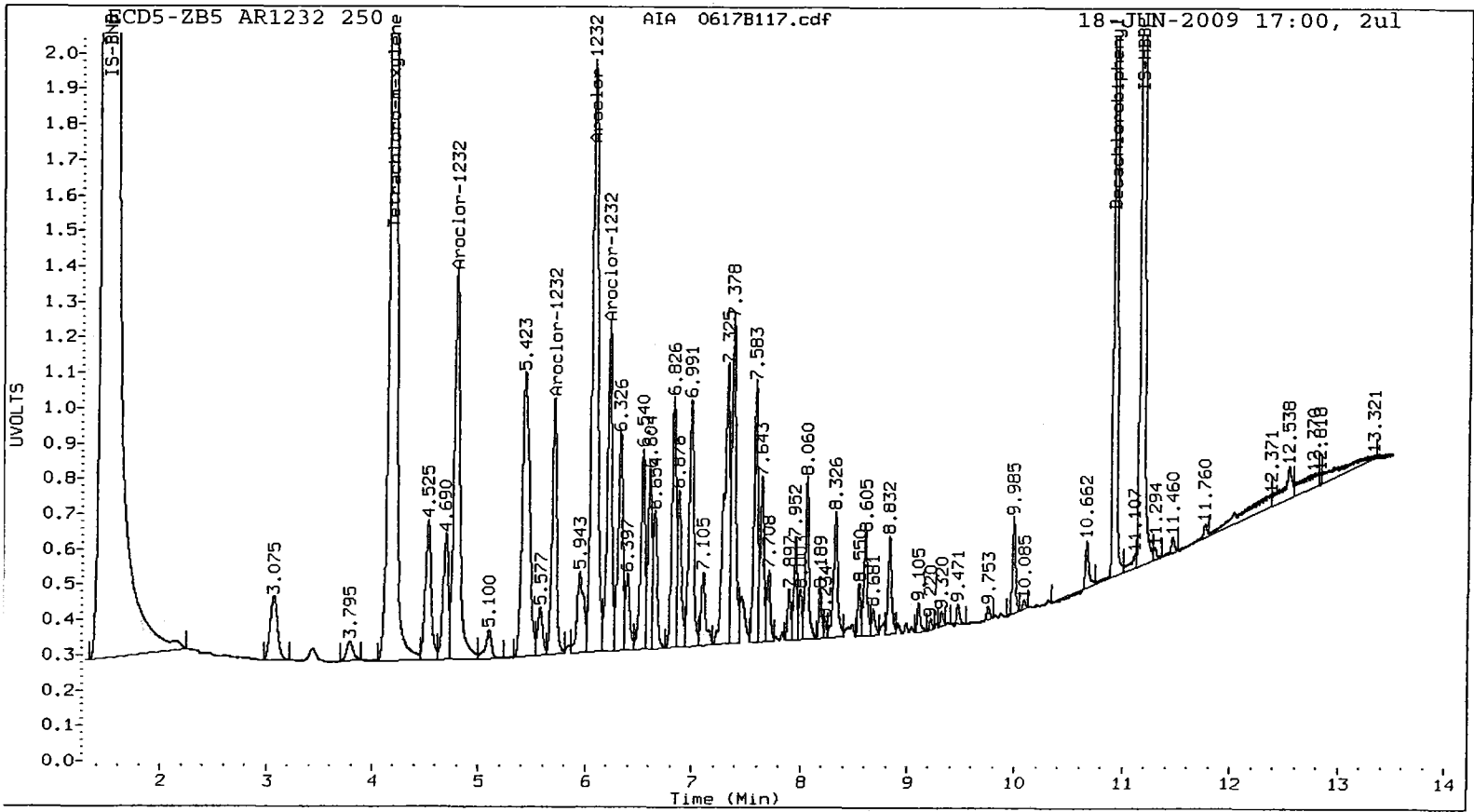
Total PCB Area Col2 (4.781 - 11.403) = 23289320 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PD91 : 00132





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B118.d
Data file 2: 20090618.B/ical-2.b/0617B118.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1232
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1232 20
Client ID:
Injection Date: 18-JUN-2009 17:17
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.186	-0.005	933787	4.677	-0.004	818456	2.1	2.0	2.9	Tetrachloro-m-xylene
10.915	-0.002	657094	11.502	-0.001	530229	2.6	2.7	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	5.2	5.1
Decachlorobiphenyl	6.5	6.7

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30029260	-2.5
Hexabromobiphenyl	12091267	11564782	-4.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	30653654	-1.8
Hexabromobiphenyl	11173293	10755261	-3.7

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

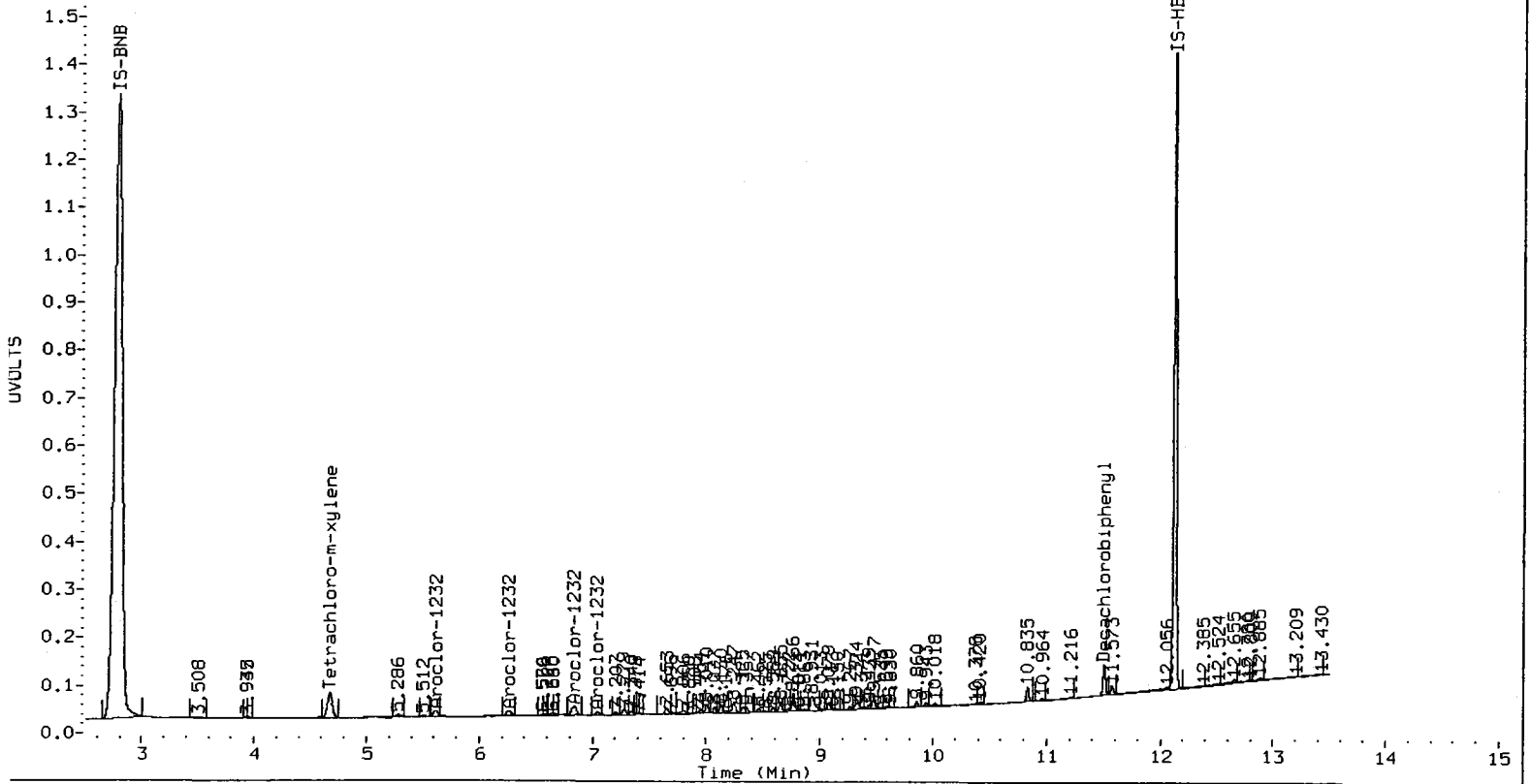
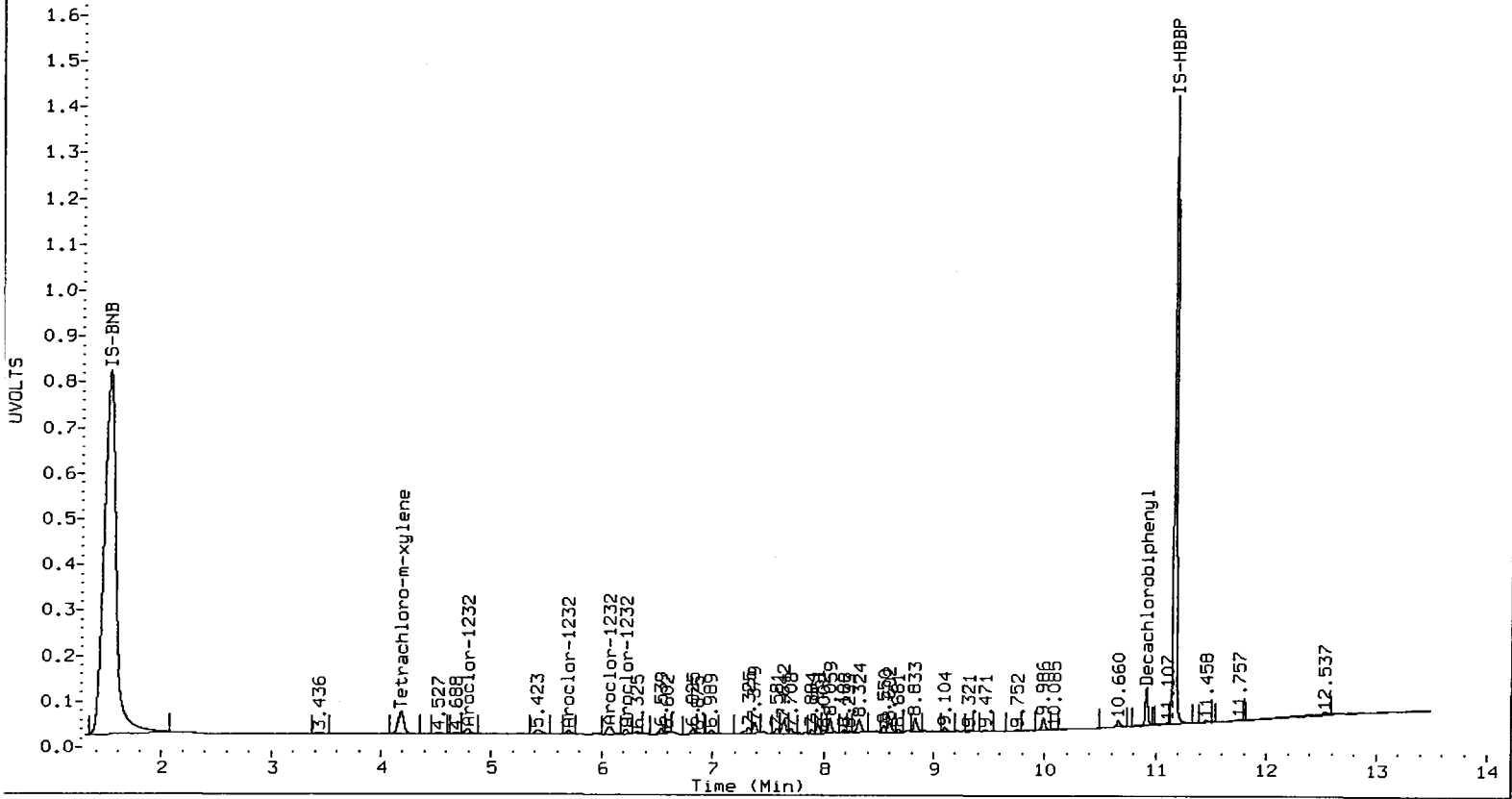
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1232	1	4.786	0.002	203776	23.5	1	5.615	-0.004	162376	22.9	
Aroclor-1232	2	5.698	0.000	108064	24.2	2	6.257	-0.004	166507	24.3	
Aroclor-1232	3	6.074	0.000	301784	22.5	3	6.841	0.000	312115	24.7	
Aroclor-1232	4	6.220	0.002	113590	20.5	4	7.043	-0.001	106149	21.6	
Total Col1Ave (4 peaks):				22.7	Total Col2Ave (4 peaks):				23.4	RPD = 3	
Corrected Ave (3 peaks):				22.2	Corrected Ave (3 peaks):				22.9	RPD = 3	

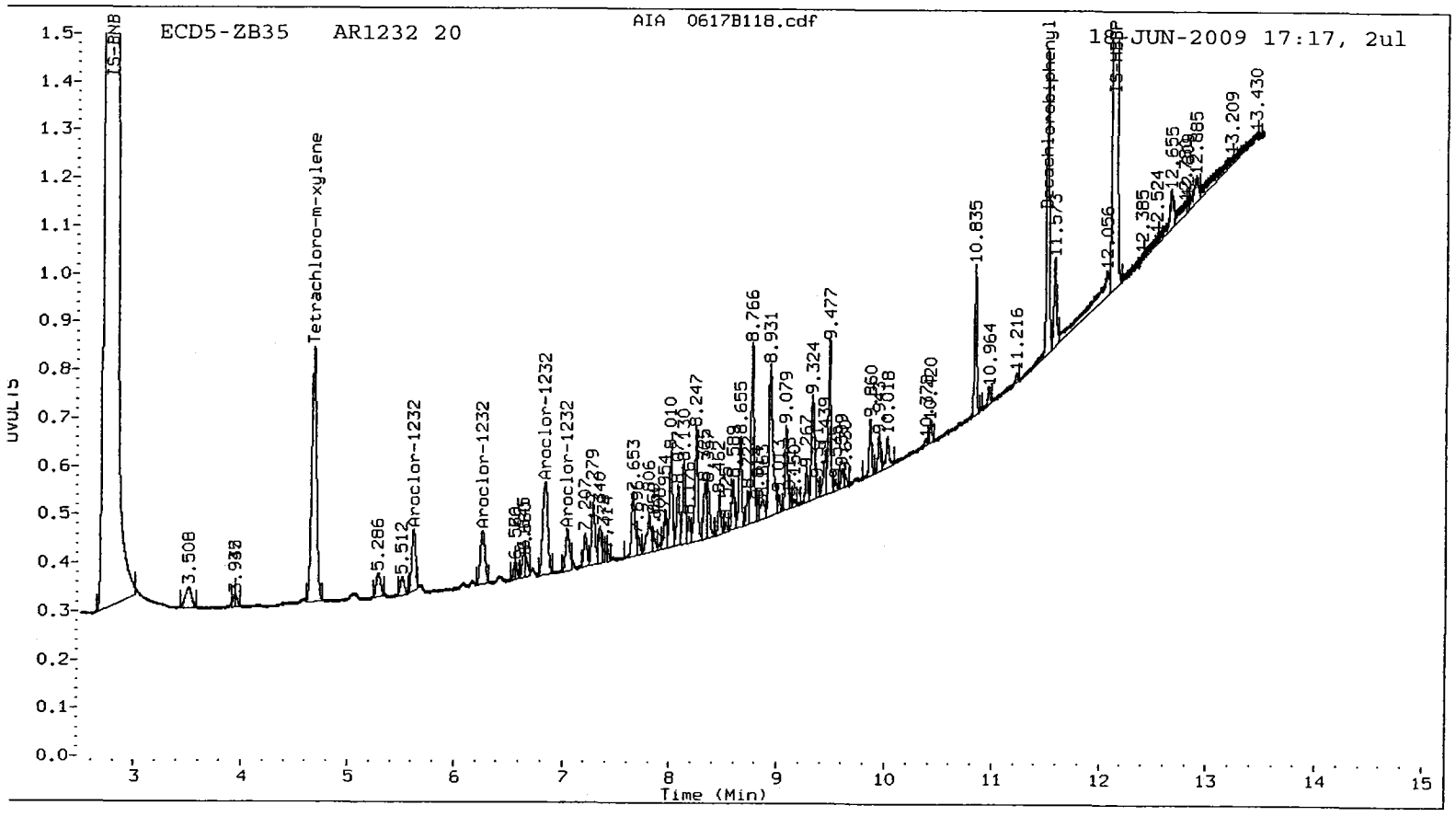
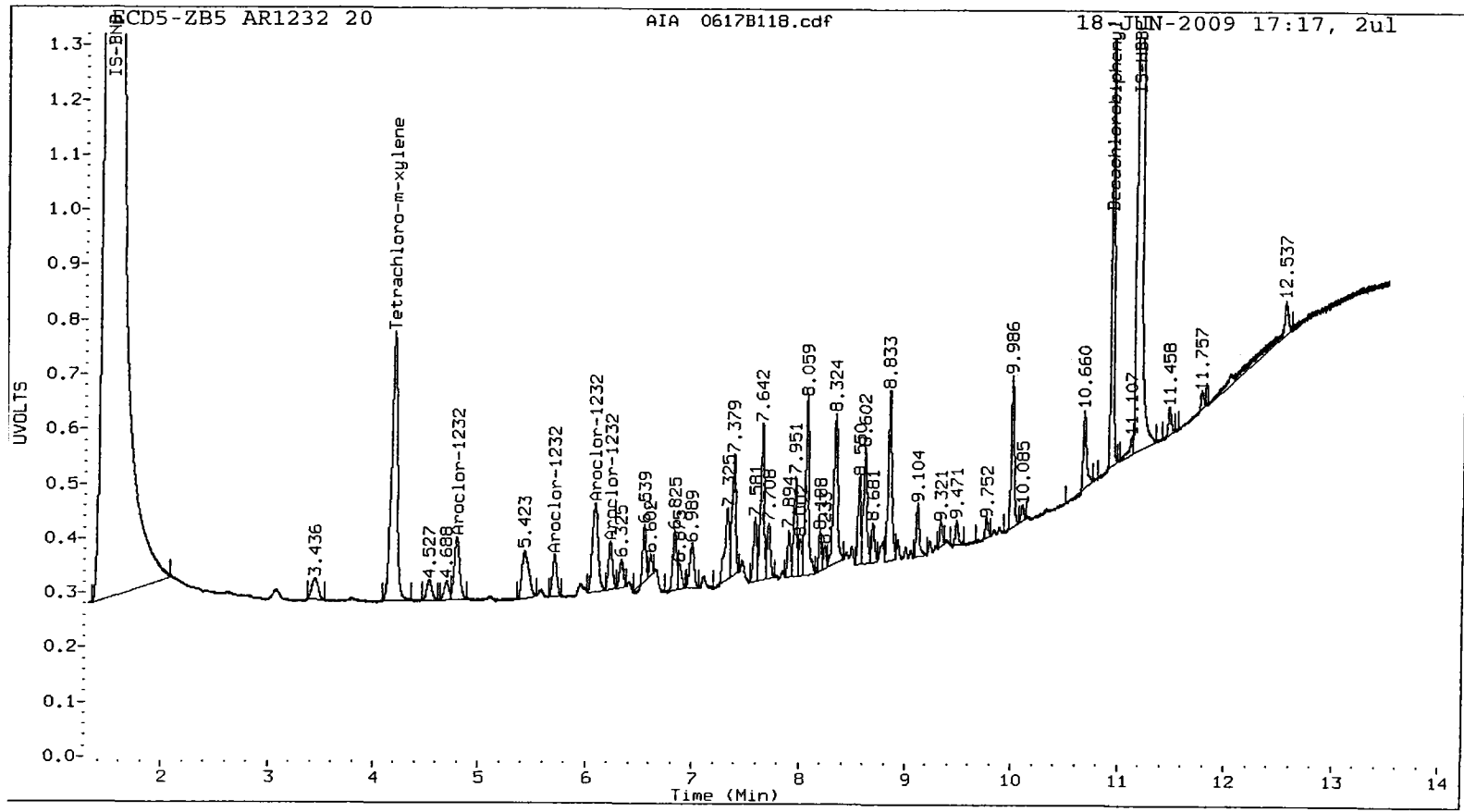
Total PCB Area Col1 (4.291 - 10.817) = 5231862 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 5329240 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B119.d
Data file 2: 20090618.B/ical-2.b/0617B119.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1232
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1232 1000
Client ID:
Injection Date: 18-JUN-2009 17:34
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.192	0.001	29120892	4.683	0.002	28103949	64.1	70.8	10.0	Tetrachloro-m-xylene
10.915	-0.002	19604573	11.503	0.000	15538965	77.8	78.0	0.2	Decachlorobiphenyl

- * Indicates RPD > 40%
- ¶ Indicates Column 1 peak was manually integrated
- ∇ Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	160.2	177.0
Decachlorobiphenyl	194.5	194.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30456593	-1.1
Hexabromobiphenyl	12091267	11580655	-4.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	30109797	-3.6
Hexabromobiphenyl	11173293	10797197	-3.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
← Indicates standard response outside Limits (-50 to +100%)

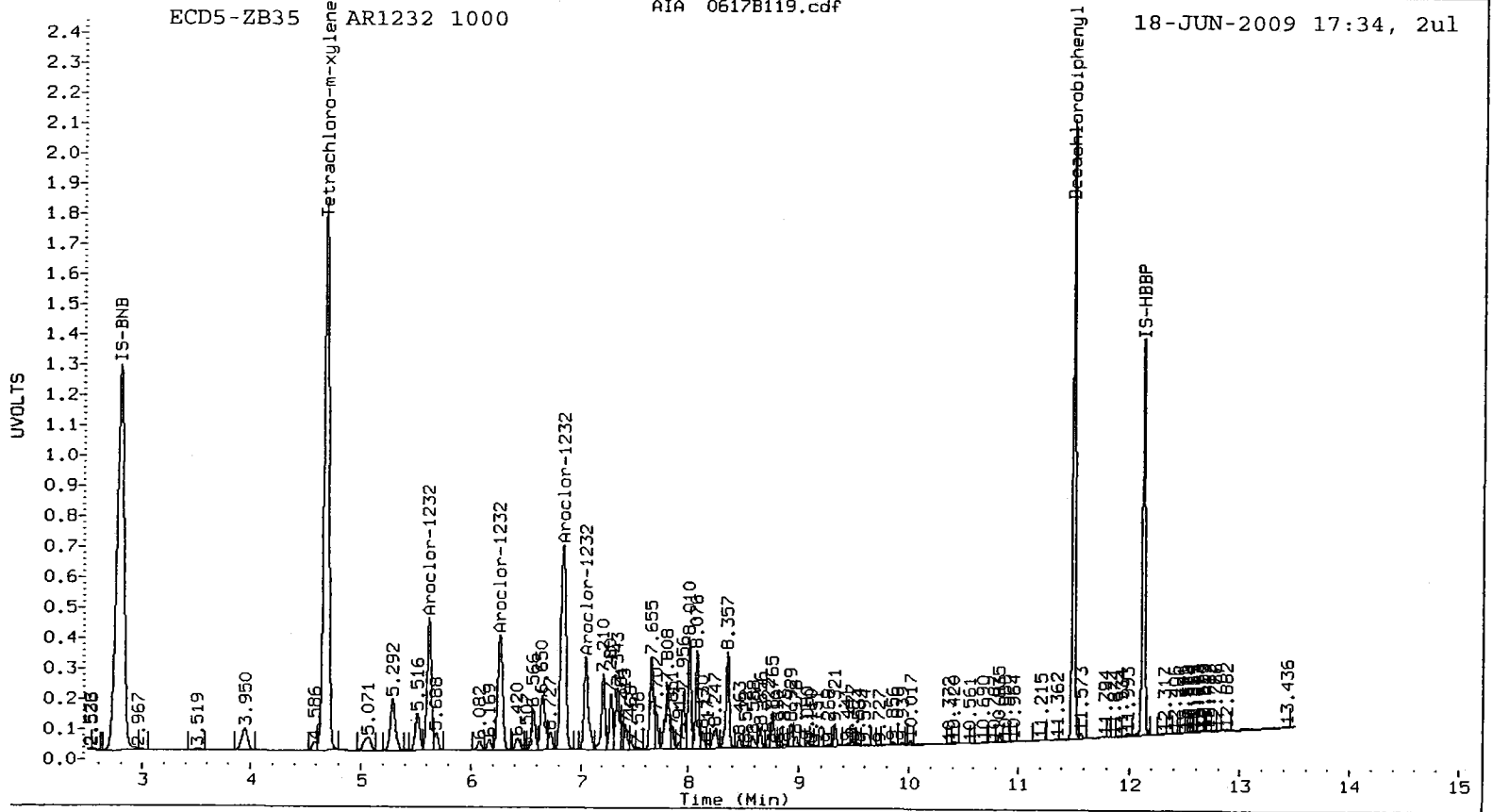
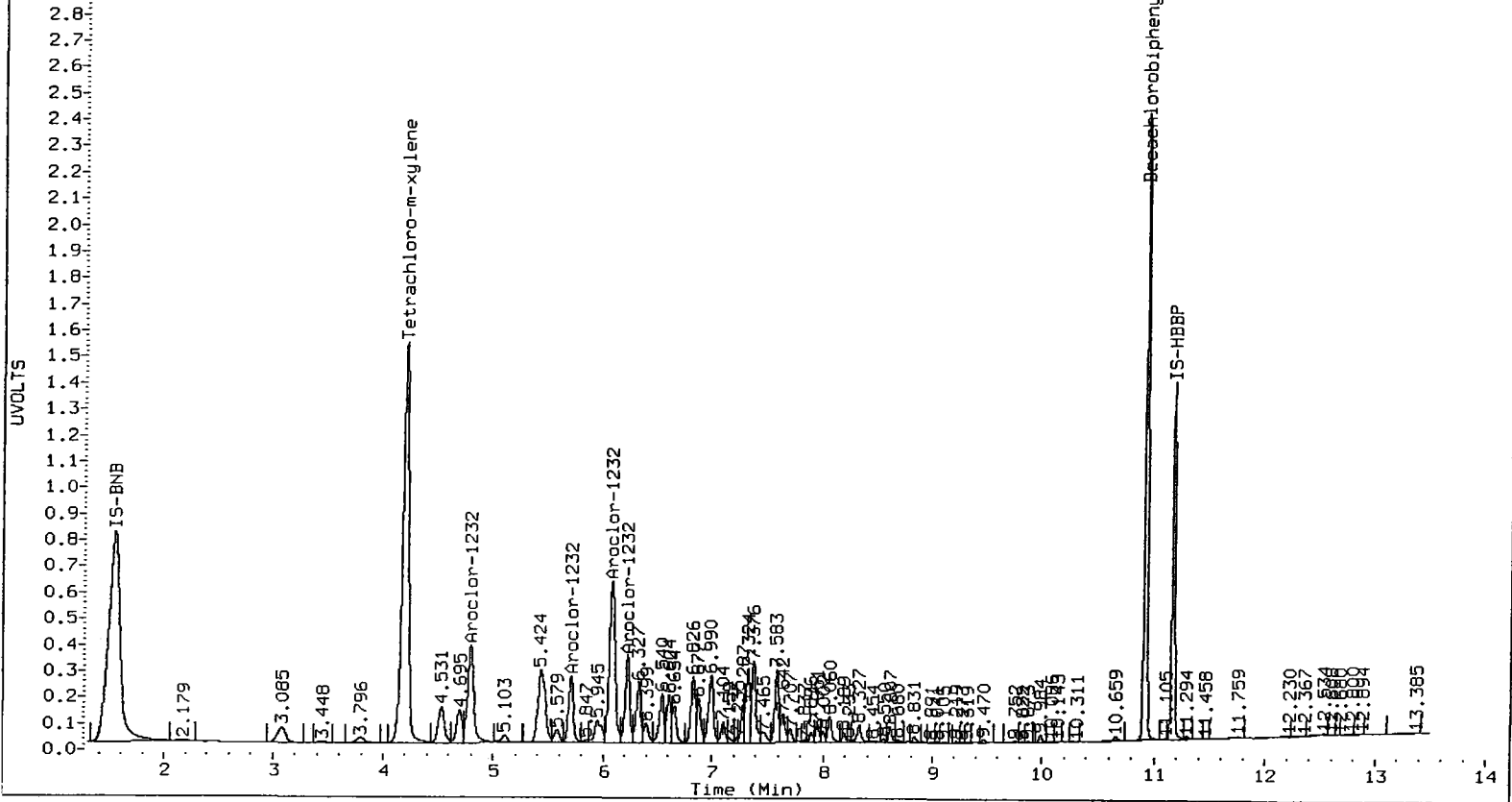
		ZB5 Col				ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1232	1	4.790	0.005	7330684	834.4	1	5.621	0.002	6032010	865.9	
Aroclor-1232	2	5.702	0.004	3853222	849.2	2	6.264	0.002	5741825	851.8	
Aroclor-1232	3	6.076	0.002	11948570	880.0	3	6.842	0.001	10881738	876.7	
Aroclor-1232	4	6.221	0.003	5018105	890.8	4	7.046	0.002	4292374	890.7	
Total Col1Ave (4 peaks):				863.6	Total Col2Ave (4 peaks):				871.3	RPD = 1	
Corrected Ave (3 peaks):				854.5	Corrected Ave (3 peaks):				864.8	RPD = 1	

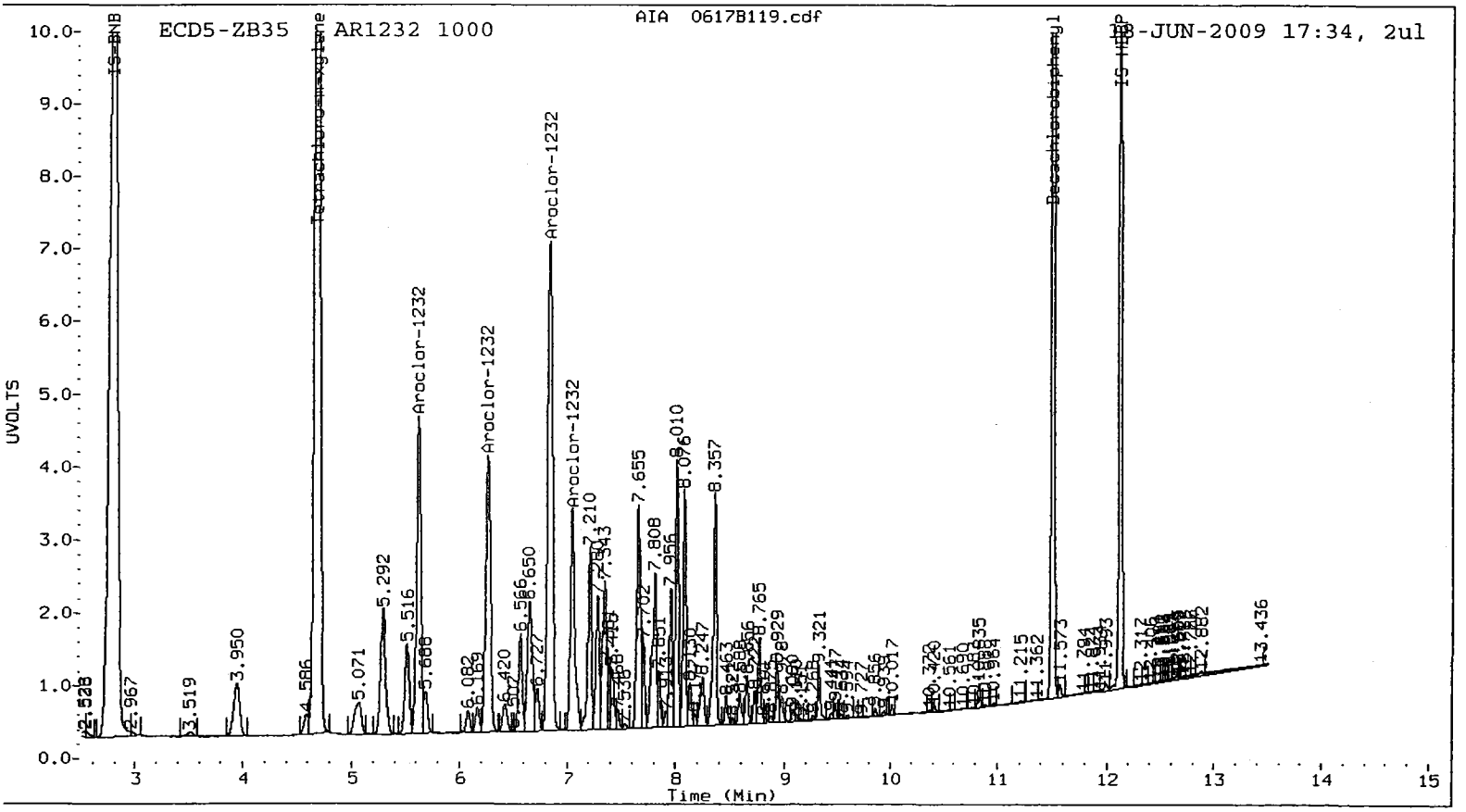
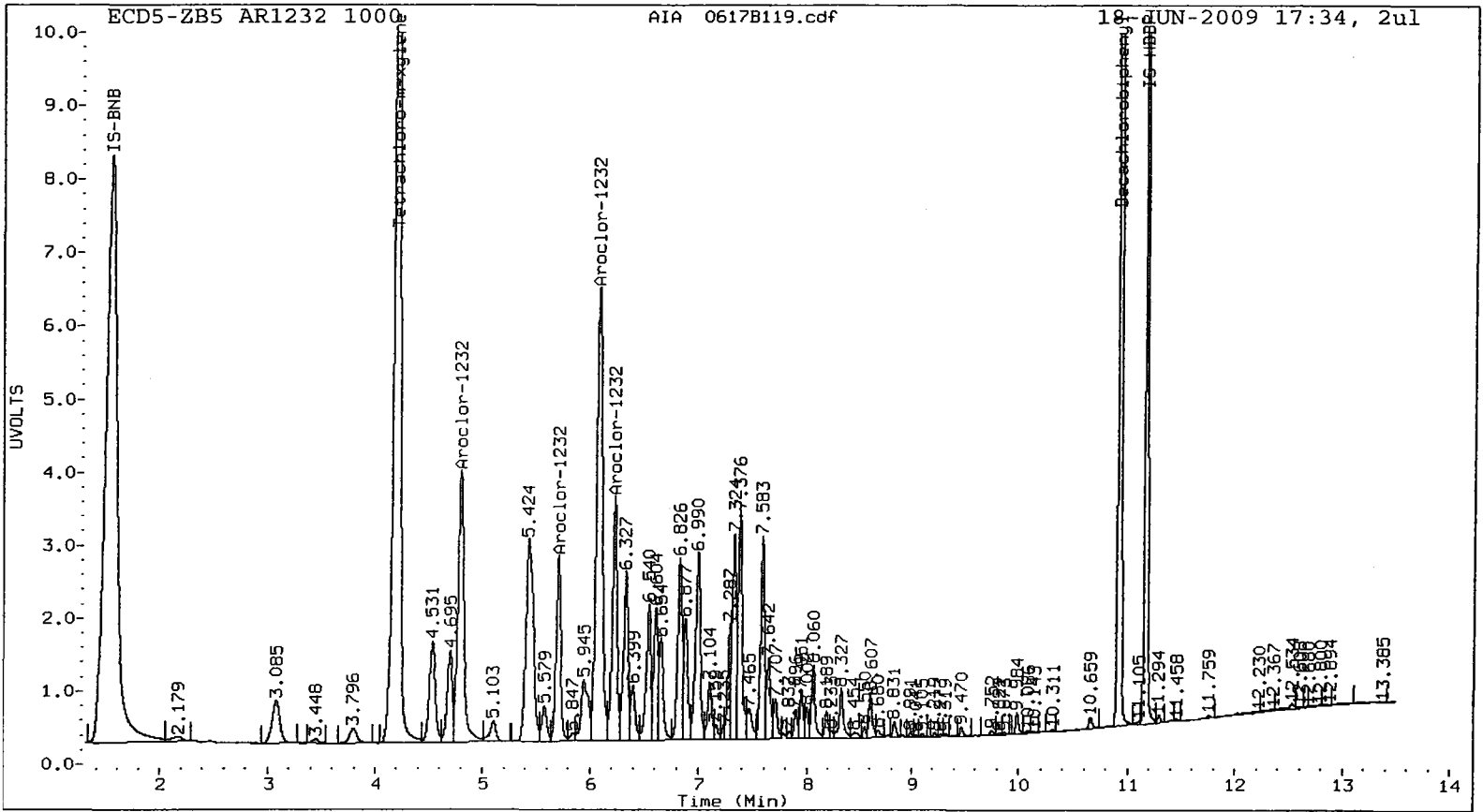
Total PCB Area Col1 (4.291 - 10.817) = 88248298 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 77000831 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B120.d
Data file 2: 20090618.B/ical-2.b/0617B120.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1232
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1232 100
Client ID:
Injection Date: 18-JUN-2009 17:51
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.189	-0.002	3505396	4.681	0.000	3100149	7.7	7.7	0.9	Tetrachloro-m-xylene
10.915	-0.002	2405010	11.502	-0.001	1741649	9.4	8.7	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	19.3	19.2
Decachlorobiphenyl	23.4	21.7

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30368885	-1.4
Hexabromobiphenyl	12091267	11811005	-2.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	30665576	-1.8
Hexabromobiphenyl	11173293	10894287	-2.5

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col			ZB35 Col					
			Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1232	1	4.788	0.004	939244	107.2	1	5.621	0.002	779639	109.9	
Aroclor-1232	2	5.701	0.003	478277	105.7	2	6.265	0.003	731430	106.5	
Aroclor-1232	3	6.077	0.003	1450984	107.2	3	6.843	0.002	1310385	103.7	
Aroclor-1232	4	6.221	0.002	624359	111.2	4	7.045	0.001	541877	110.4	
Total Col1Ave (4 peaks):				107.8		Total Col2Ave (4 peaks):				107.6	RPD = 0
Corrected Ave (3 peaks):				106.7		Corrected Ave (3 peaks):				106.7	RPD = 0

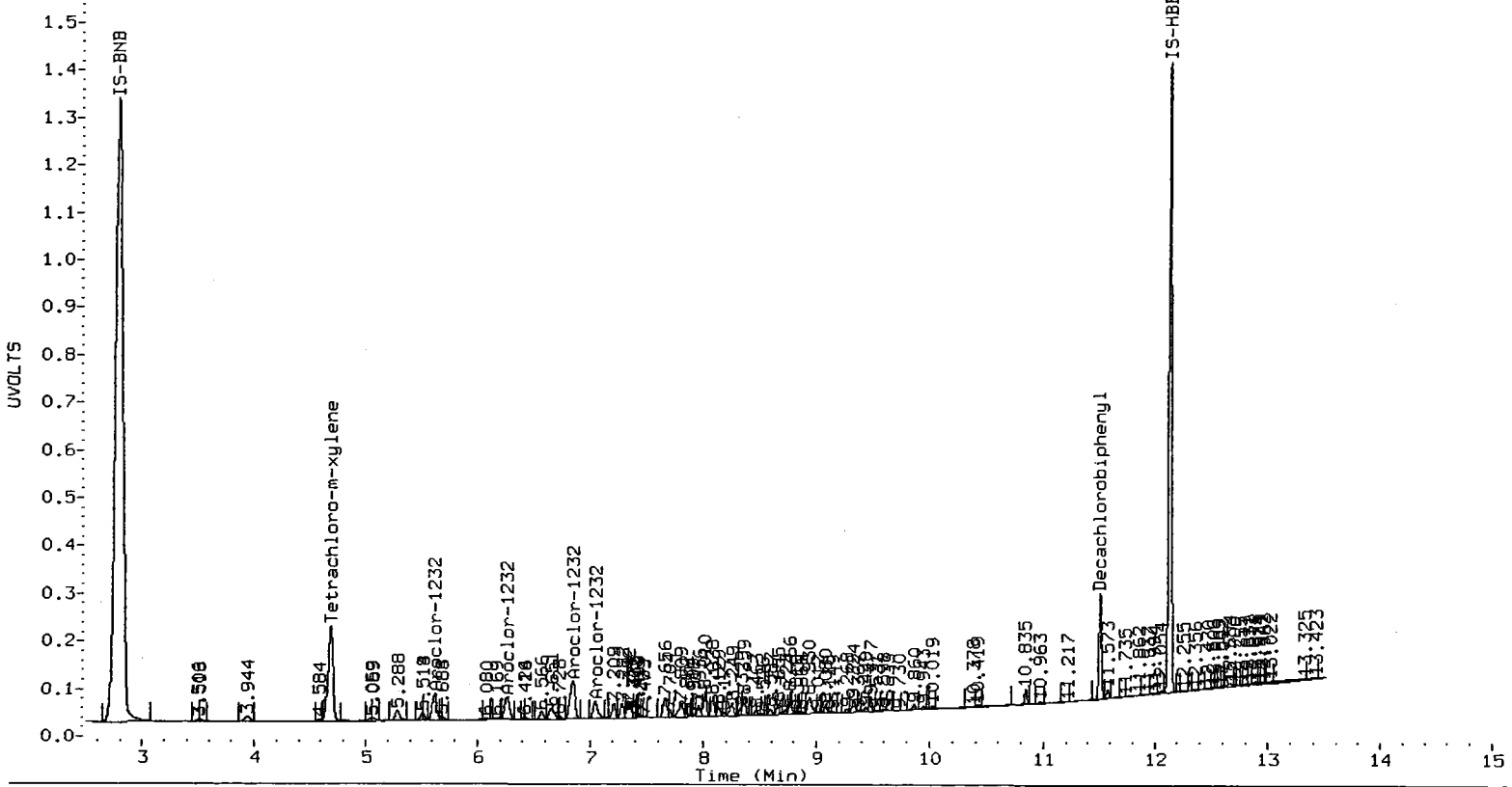
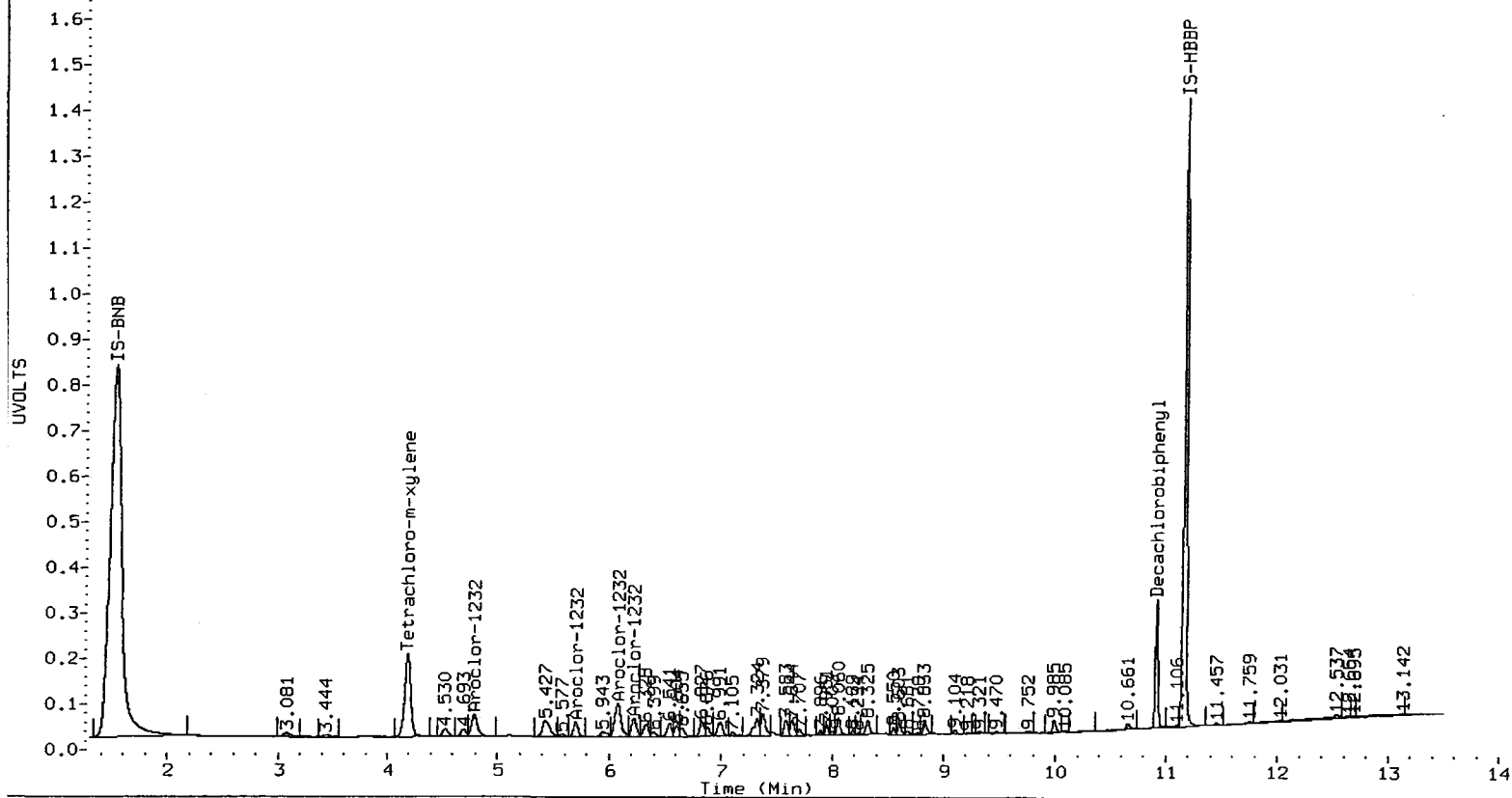
Total PCB Area Col1 (4.291 - 10.817) = 13416754 Col1 Total PCB = 0.1 ppm*

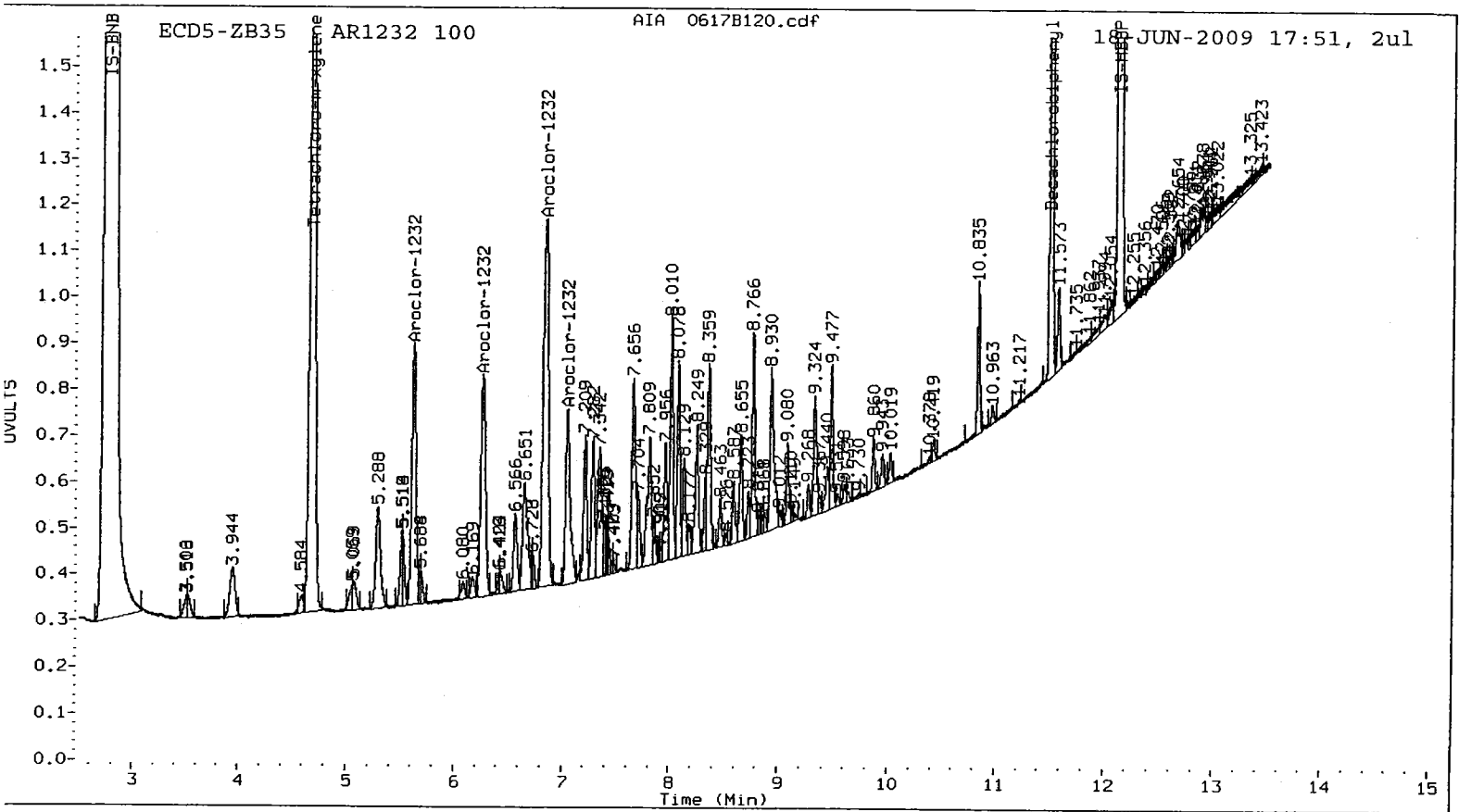
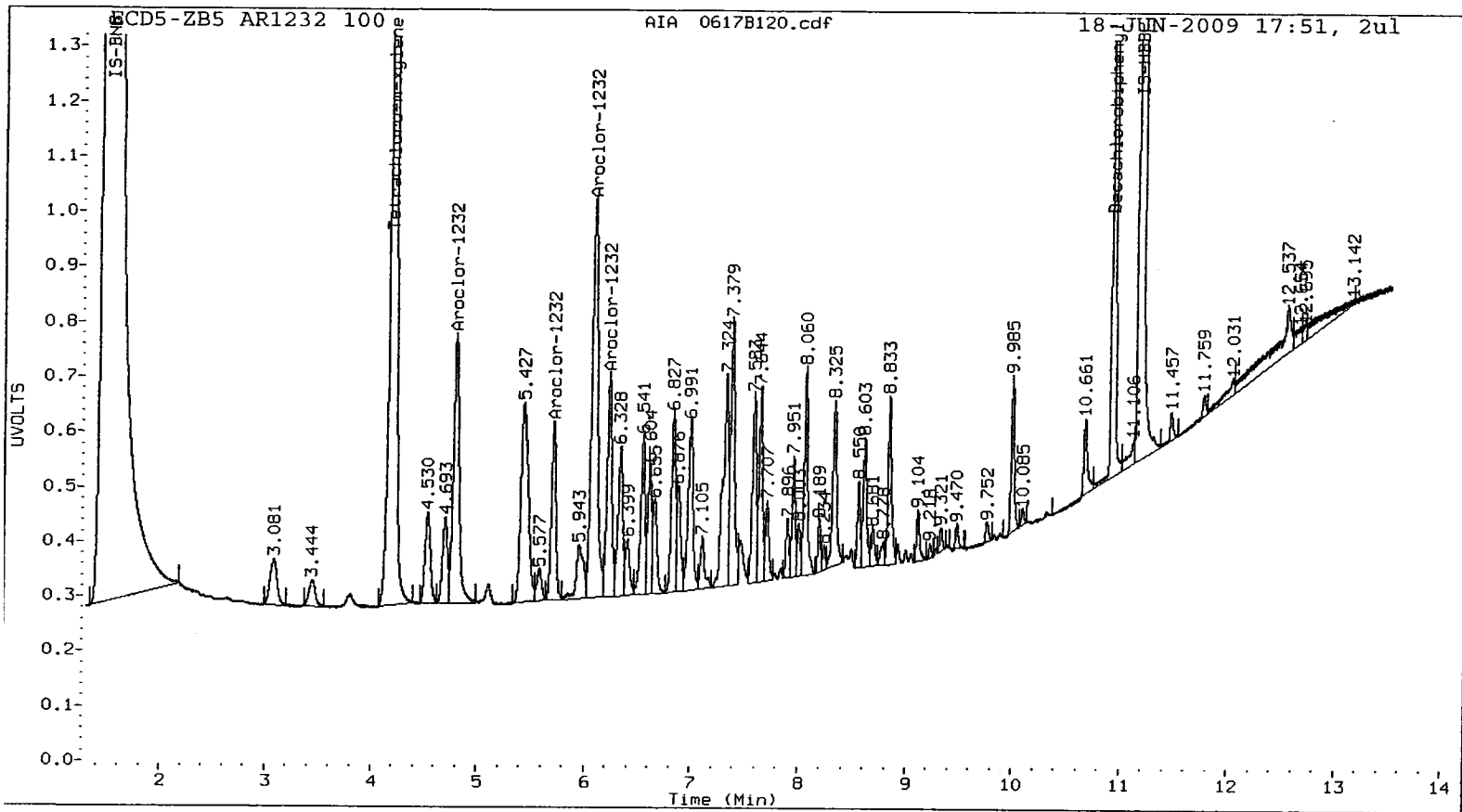
Total PCB Area Col2 (4.781 - 11.403) = 12428680 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

F091 : 00144





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B121.d
Data file 2: 20090618.B/ical-2.b/0617B121.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1232
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1232 500
Client ID:
Injection Date: 18-JUN-2009 18:08
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.189	-0.002	15518376	4.681	0.000	14412162	33.9	35.5	4.8	Tetrachloro-m-xylene
10.916	-0.001	10288260	11.503	0.000	7872548	39.3	38.7	1.6	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	84.7	88.8
Decachlorobiphenyl	98.3	96.8

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30707611	-0.3
Hexabromobiphenyl	12091267	12026451	-0.5

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	30755893	-1.5
Hexabromobiphenyl	11173293	11020221	-1.4

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

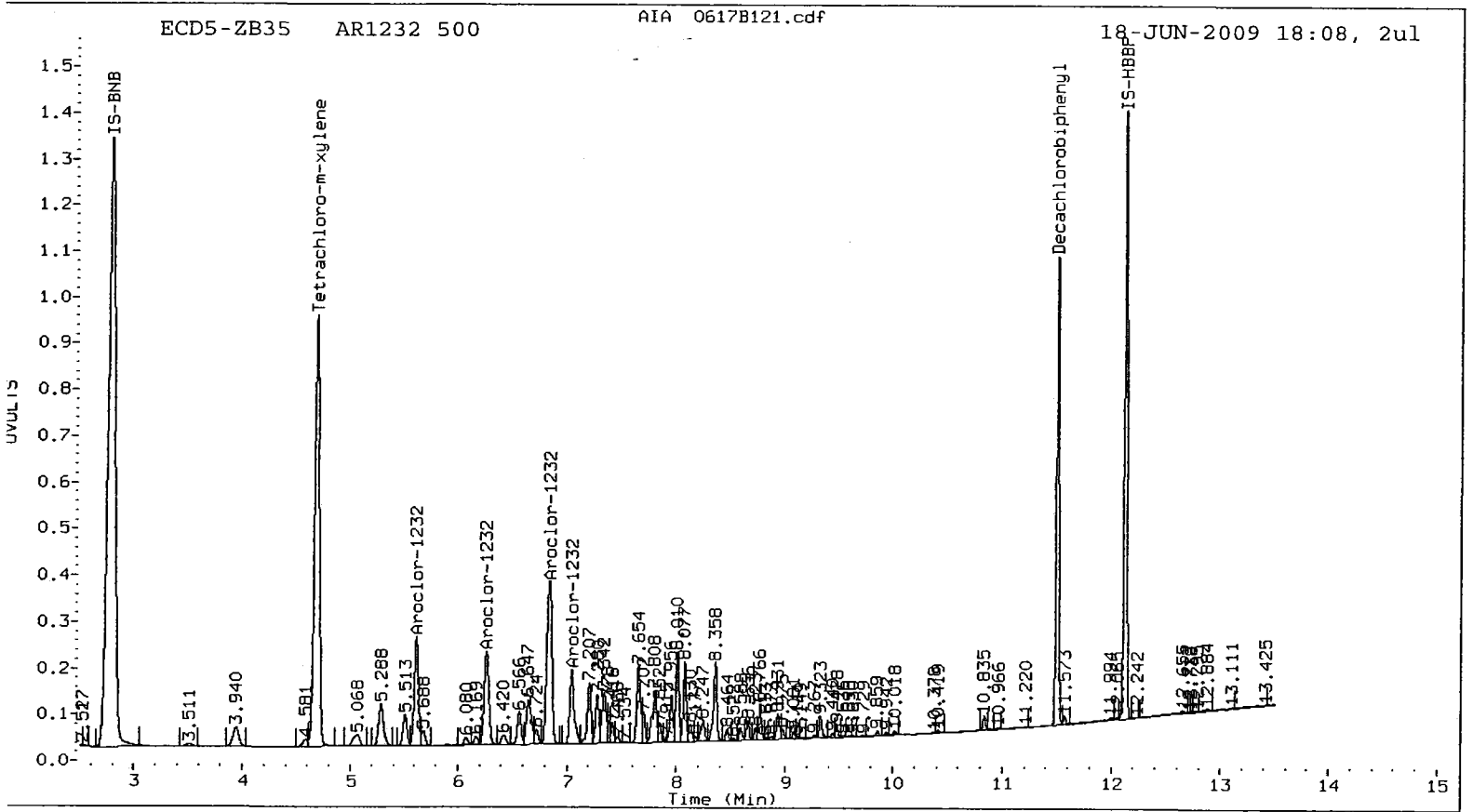
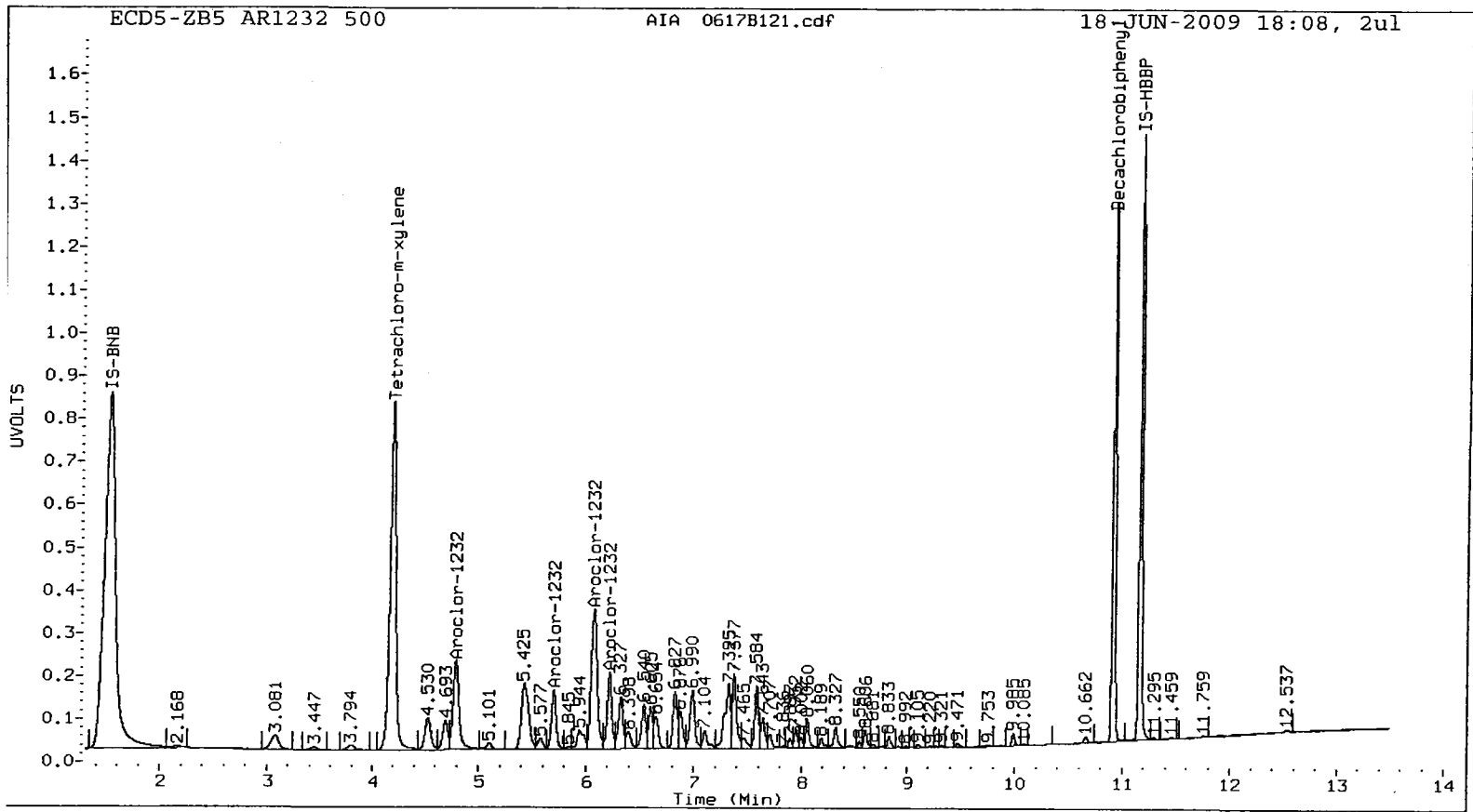
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1232	1	4.788	0.003	4048432	457.0	1	5.618	-0.001	3248104	456.5	
Aroclor-1232	2	5.702	0.004	2084969	455.7	2	6.262	0.000	3089448	448.7	
Aroclor-1232	3	6.077	0.002	6372684	465.5	3	6.841	0.001	5698387	449.5	
Aroclor-1232	4	6.221	0.003	2707794	476.7	4	7.044	0.000	2276899	462.5	
Total Col1Ave (4 peaks):				463.7	Total Col2Ave (4 peaks):				454.3	RPD = 2	
Corrected Ave (3 peaks):				459.4	Corrected Ave (3 peaks):				451.5	RPD = 2	

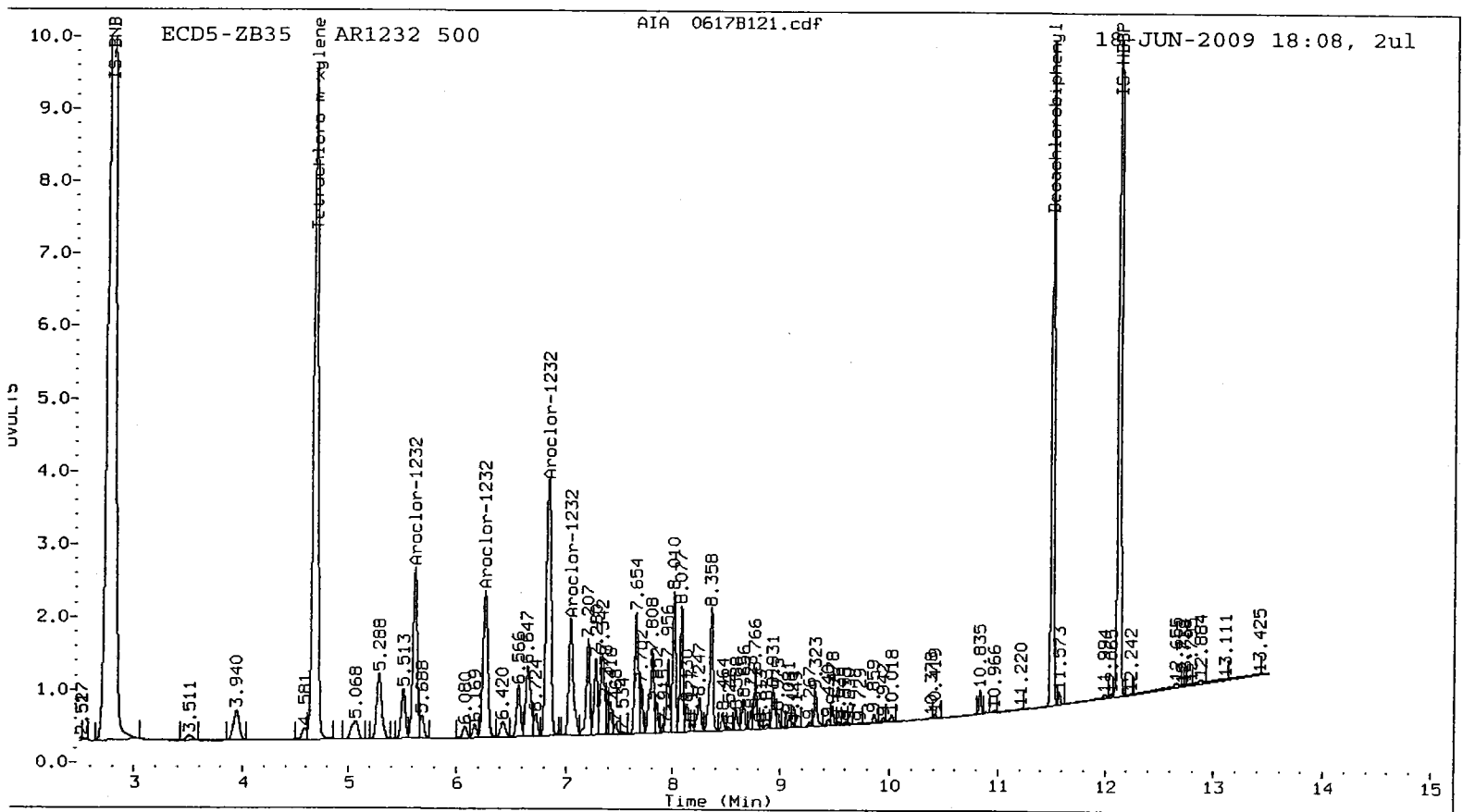
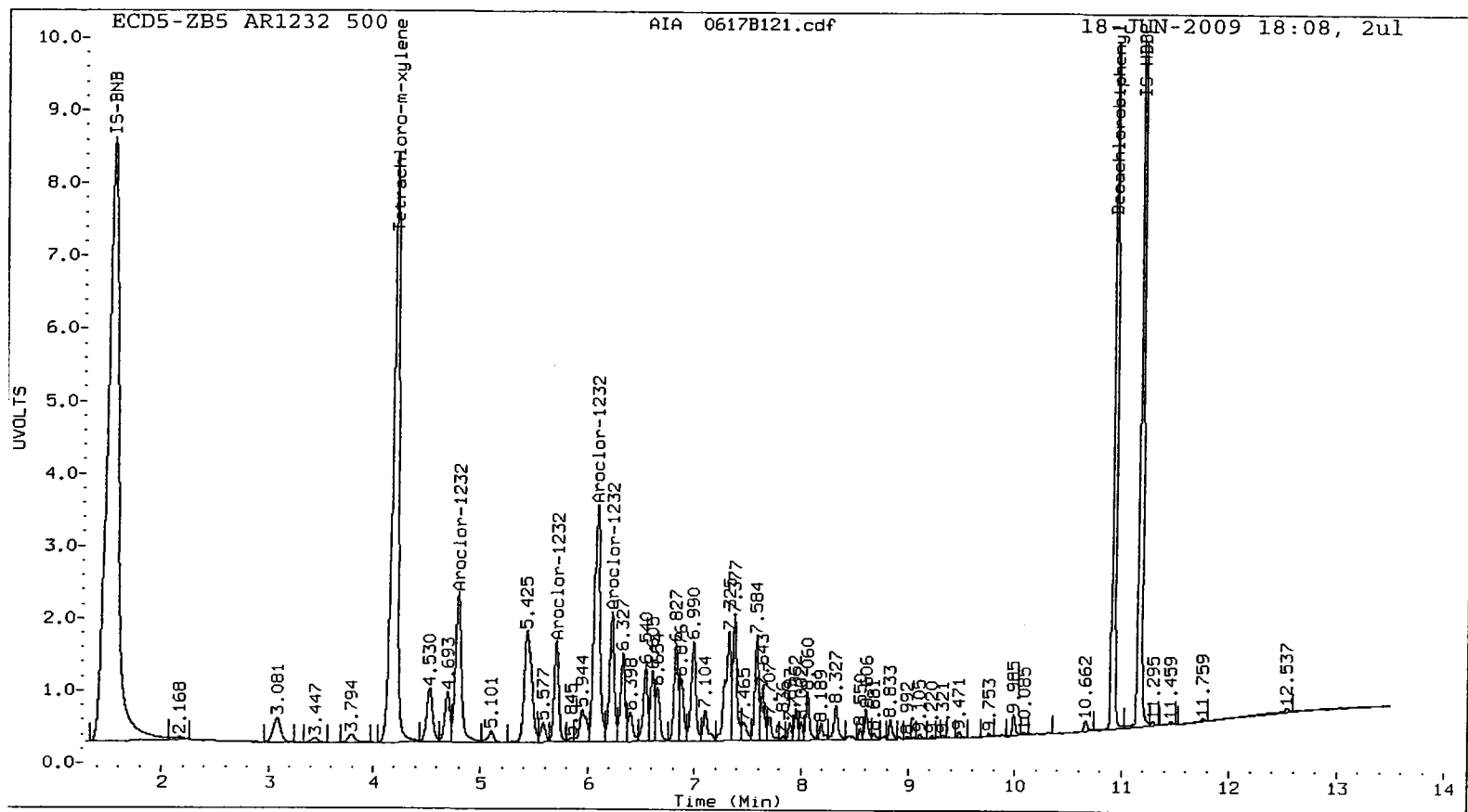
Total PCB Area Col1 (4.291 - 10.817) = 48794097 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 42502852 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B122.d
Data file 2: 20090618.B/ical-2.b/0617B122.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25 PPM AR1660
Client ID:
Injection Date: 18-JUN-2009 18:26
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.186	-0.005	8562980	4.680	-0.001	7782074	18.6	18.9	1.4	Tetrachloro-m-xylene
10.915	-0.002	5725192	11.503	0.000	4324935	21.8	21.0	3.7	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	46.6	47.3
Decachlorobiphenyl	54.4	52.4

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30797009	0.0
Hexabromobiphenyl	12091267	12091267	0.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	31223103	0.0
Hexabromobiphenyl	11173293	11173293	0.0

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

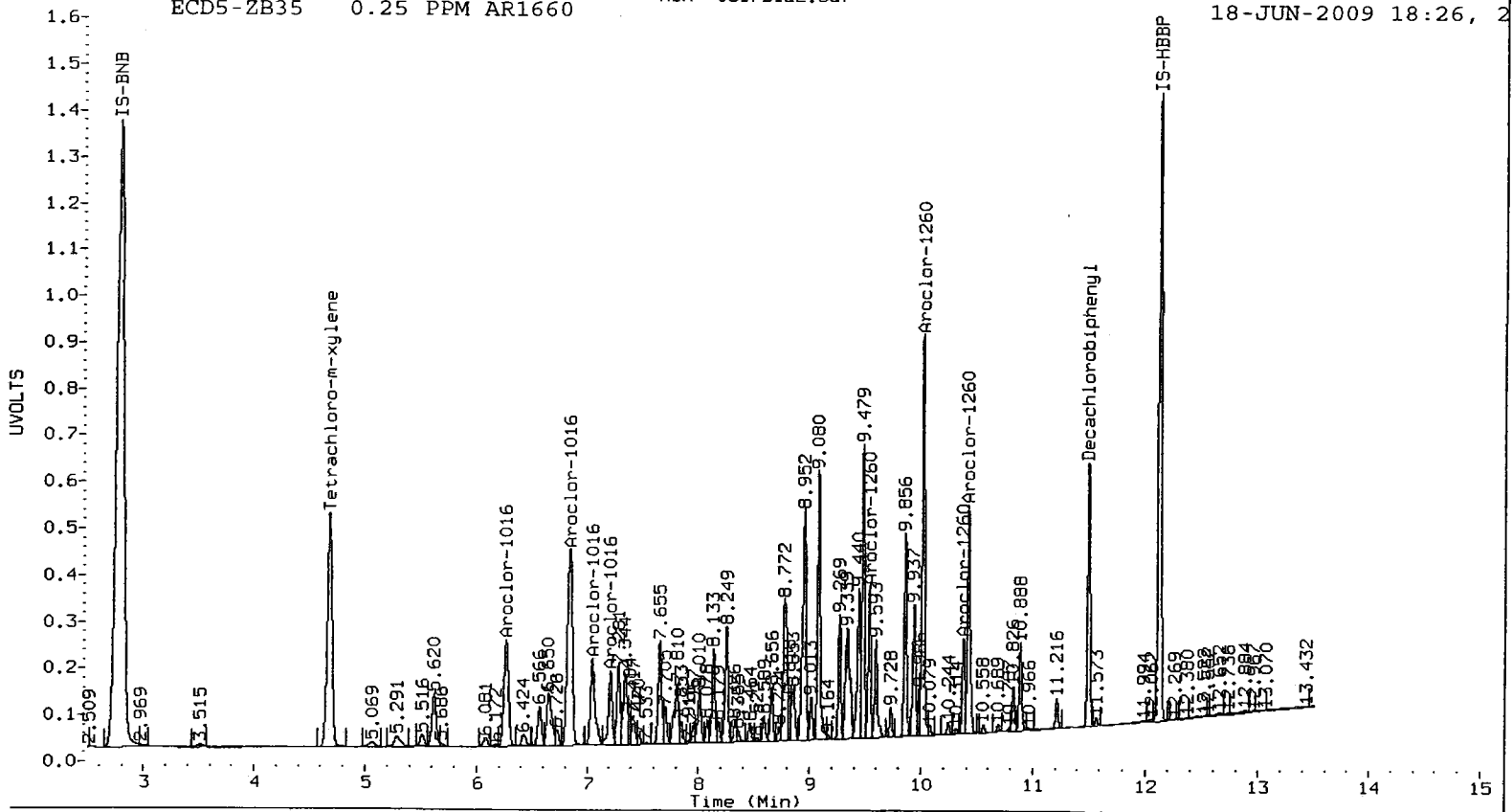
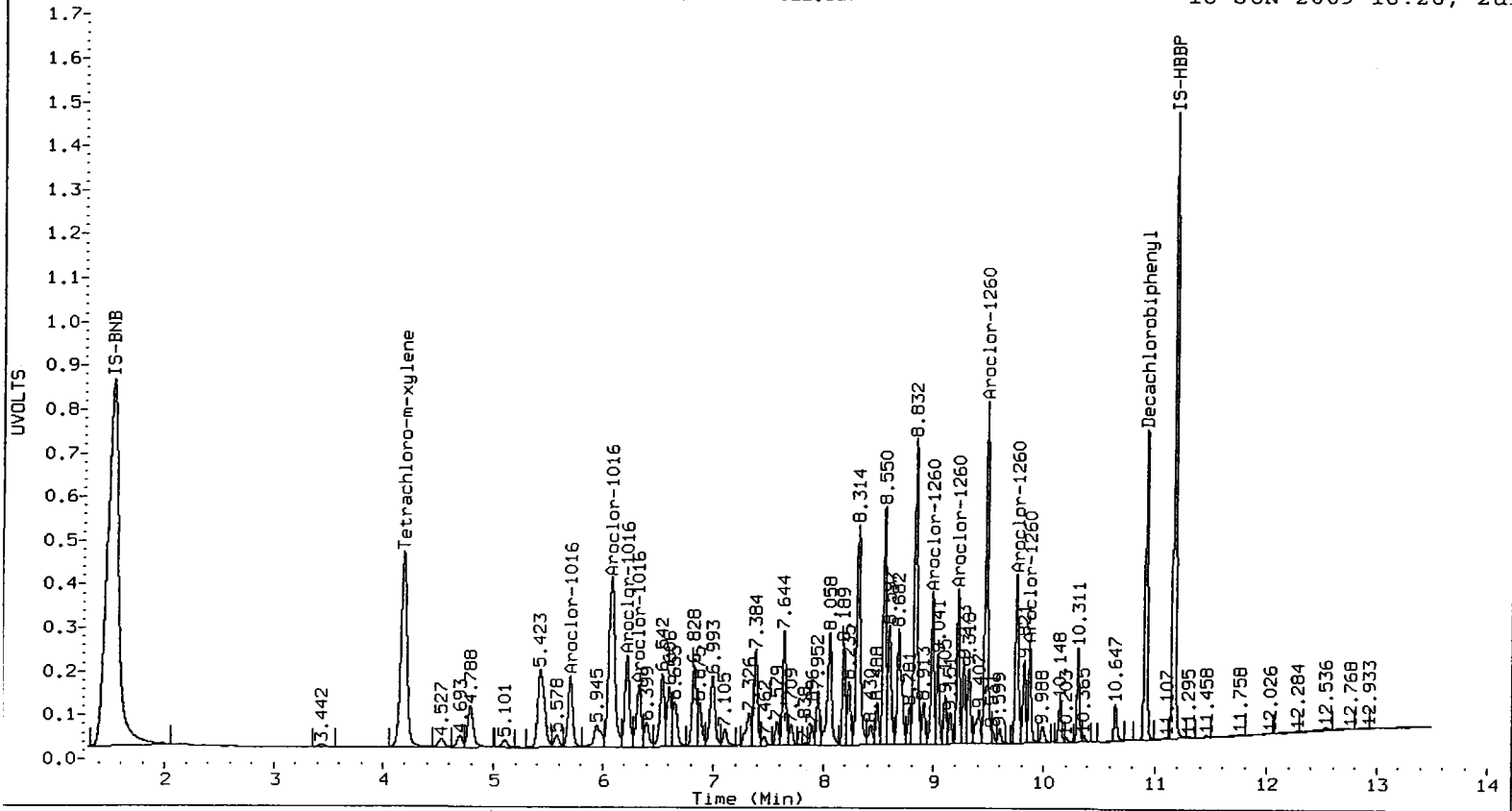
<- Indicates standard response outside Limits (-50 to +100%)

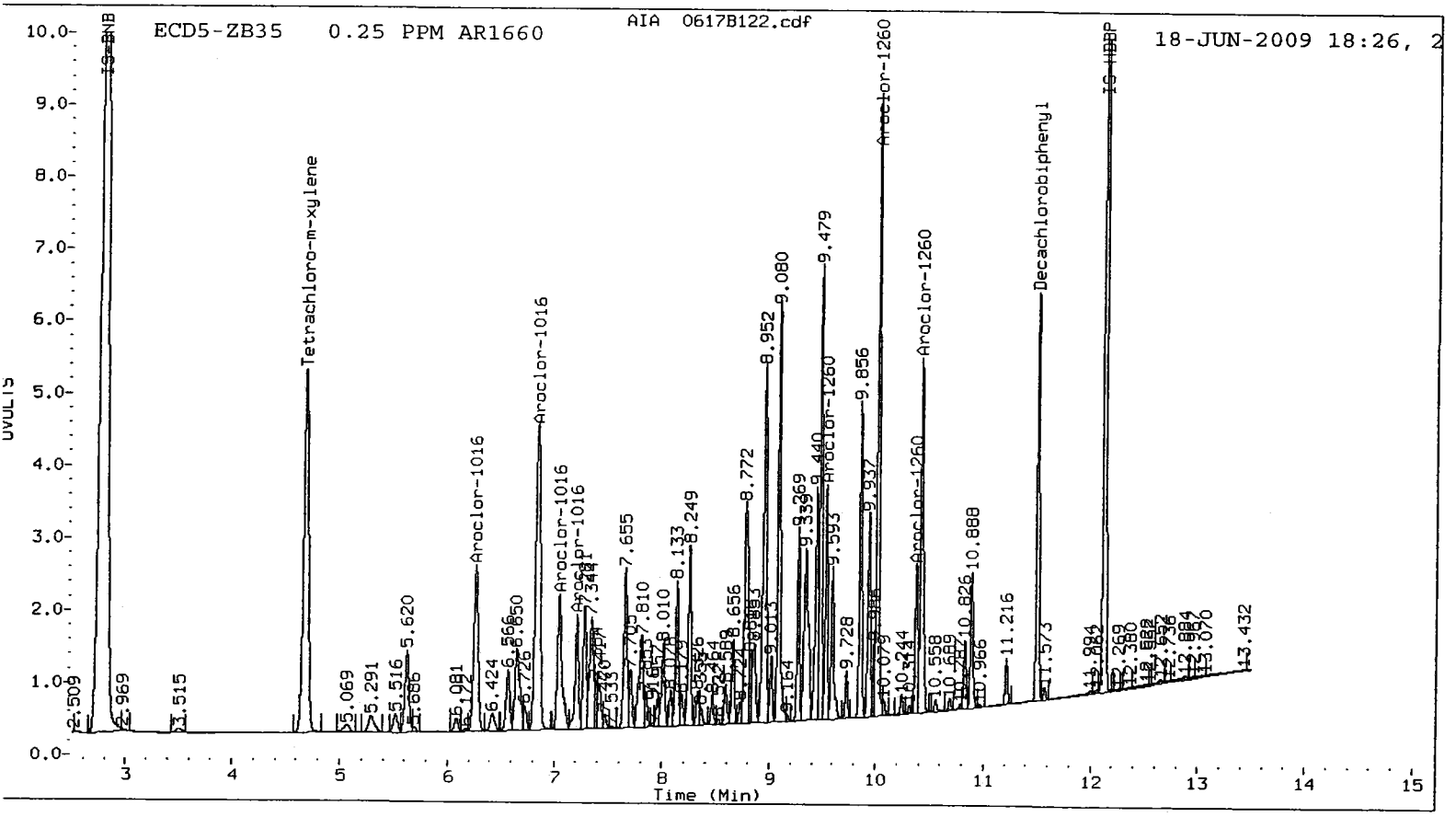
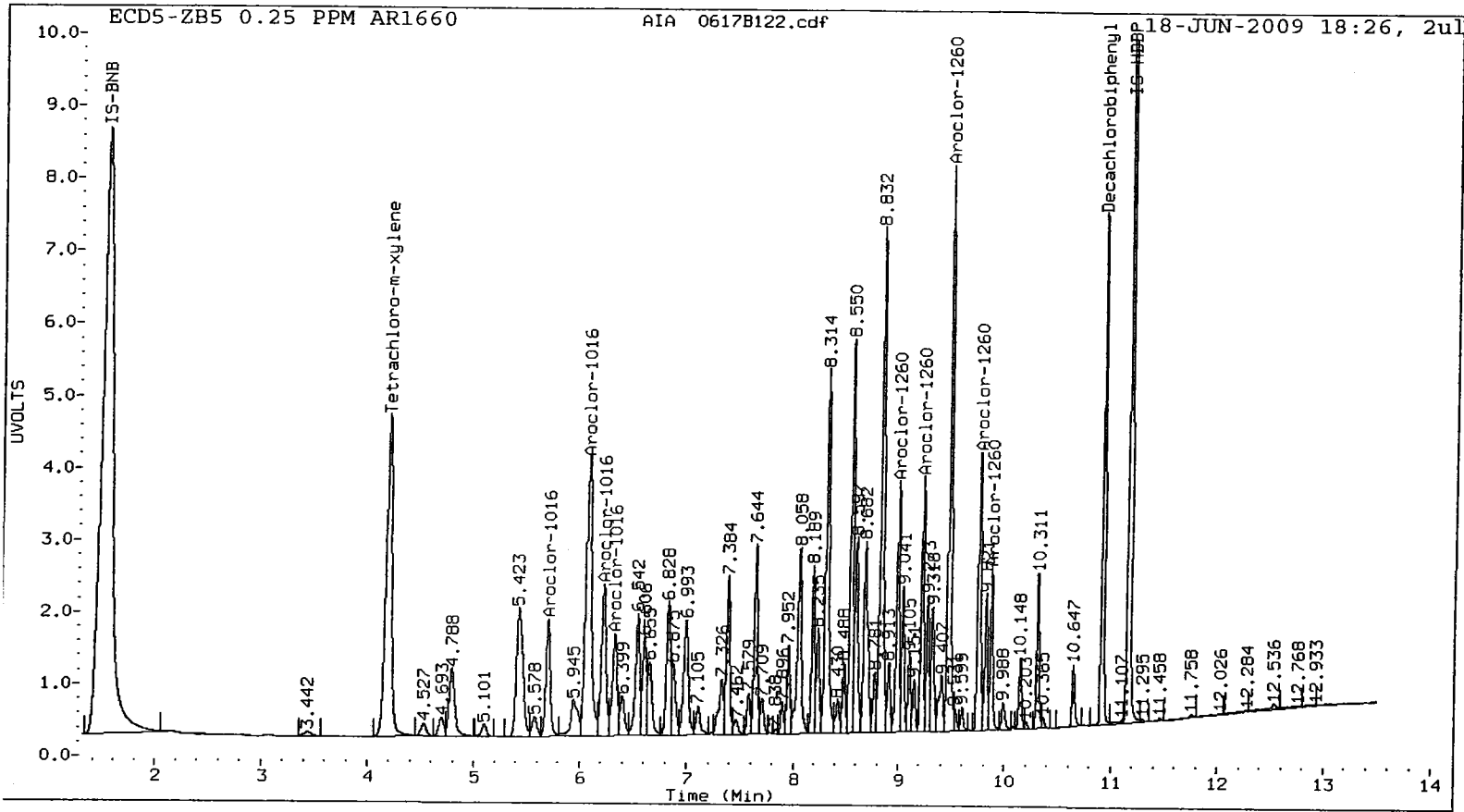
ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.702	0.001	2451722	241.3	1	6.262	0.000	3380474	236.9	
Aroclor-1016	2	6.077	0.002	7613899	239.7	2	6.845	0.001	6886295	237.7	
Aroclor-1016	3	6.222	0.003	3206333	238.3	3	7.046	0.001	2717263	237.8	
Aroclor-1016	4	6.328	0.002	2205918	236.1	4	7.210	0.000	1806498	247.4	
Total Col1Ave (4 peaks):				238.8		Total Col2Ave (4 peaks):				240.0	RPD = 0
Corrected Ave (3 peaks):				238.0		Corrected Ave (3 peaks):				237.5	RPD = 0
Aroclor-1260	1	8.992	0.001	3191076	282.3	1	9.535	0.000	2542604	272.8	
Aroclor-1260	2	9.220	0.001	3029407	279.9	2	10.018	0.000	6671628	248.7	
Aroclor-1260	3	9.469	0.001	7484891	274.5	3	10.375	0.001	1728540	268.4	
Aroclor-1260	4	9.750	0.002	3885622	278.7	4	10.420	0.000	4250490	265.7	
Aroclor-1260	5	9.872	0.001	1996732	279.2	NS	---			----	
Total Col1Ave (5 peaks):				278.9		Total Col2Ave (4 peaks):				263.9	RPD = 6
Corrected Ave (4 peaks):				278.1		Corrected Ave (3 peaks):				260.9	RPD = 6

Total PCB Area Col1 (4.291 - 10.817) = 117328155 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 99091496 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B123.d
Data file 2: 20090618.B/ical-2.b/0617B123.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02 PPM AR1660
Client ID:
Injection Date: 18-JUN-2009 18:43
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.193	0.002	941647	4.682	0.001	844319	2.1	2.1	0.7	Tetrachloro-m-xylene
10.916	-0.001	768081	11.502	-0.001	503639	2.9	2.5	16.3	Decachlorobiphenyl

* Indicates RPD > 40%

4 Indicates Column 1 peak was manually integrated

√ Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	5.2	5.2
Decachlorobiphenyl	7.4	6.3

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30289434	-1.6
Hexabromobiphenyl	12091267	11967393	-1.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	30944283	-0.9
Hexabromobiphenyl	11173293	10897856	-2.5

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

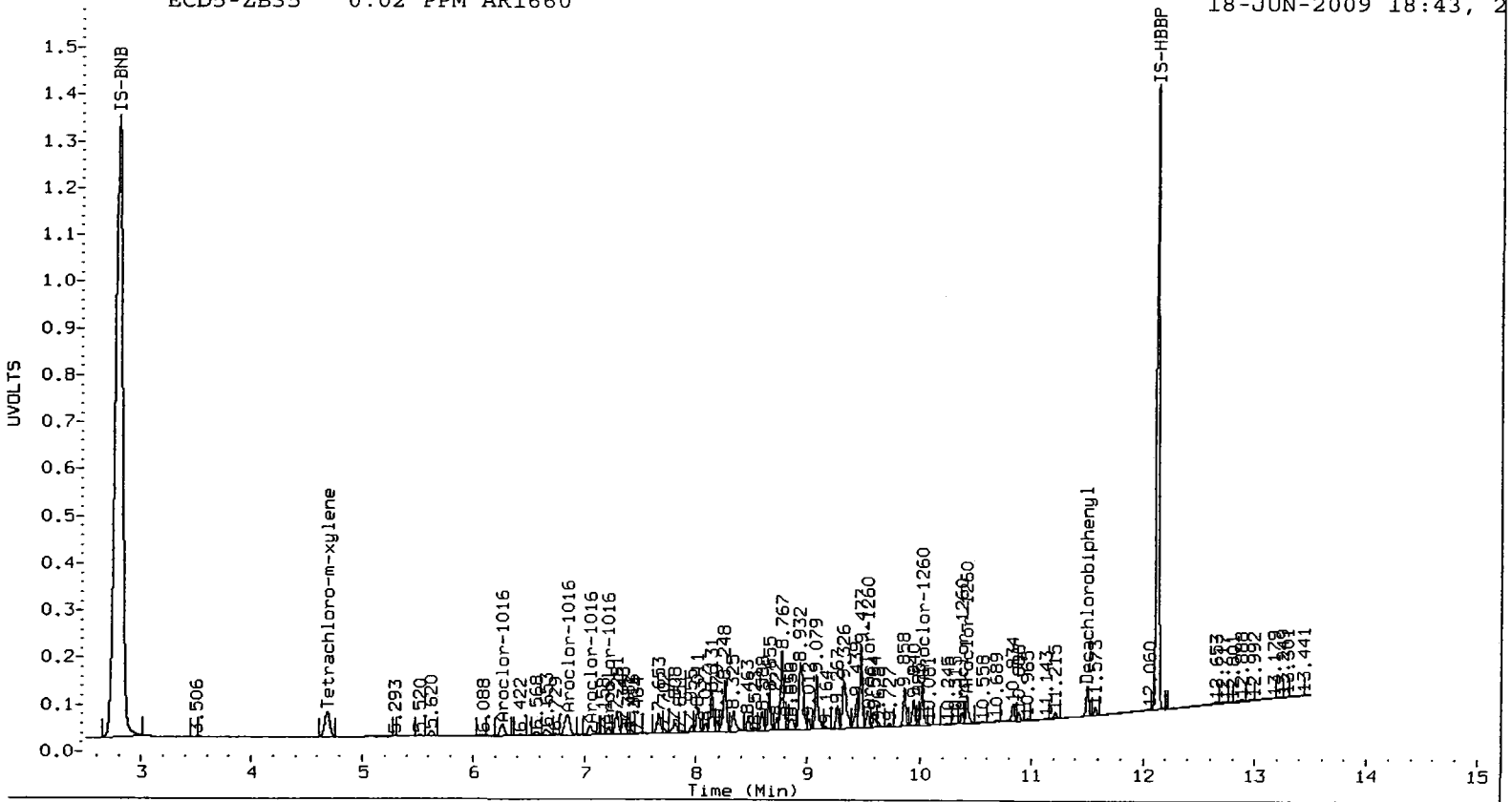
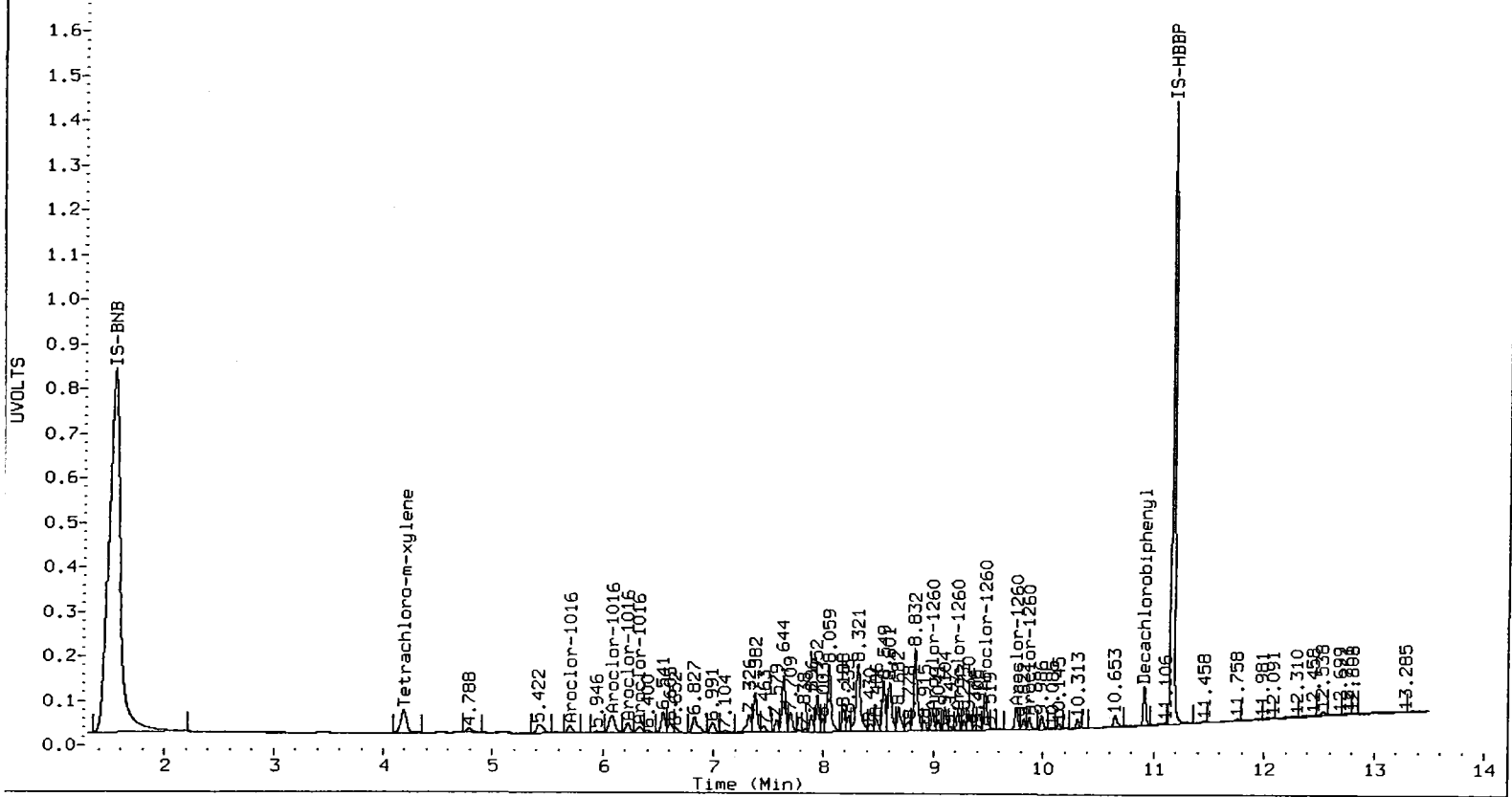
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.702	0.001	246482	24.7	1	6.261	-0.001	364740	25.8
Aroclor-1016	2	6.078	0.003	764864	24.5	2	6.842	-0.003	722345	25.2
Aroclor-1016	3	6.223	0.004	334904	25.3	3	7.045	0.000	290983	25.7
Aroclor-1016	4	6.328	0.002	234988	25.6	4	7.207	-0.002	171209	23.7
Total Col1Ave (4 peaks):				25.0		Total Col2Ave (4 peaks):				25.1 RPD = 0
Corrected Ave (3 peaks):				24.8		Corrected Ave (3 peaks):				24.8 RPD = 0

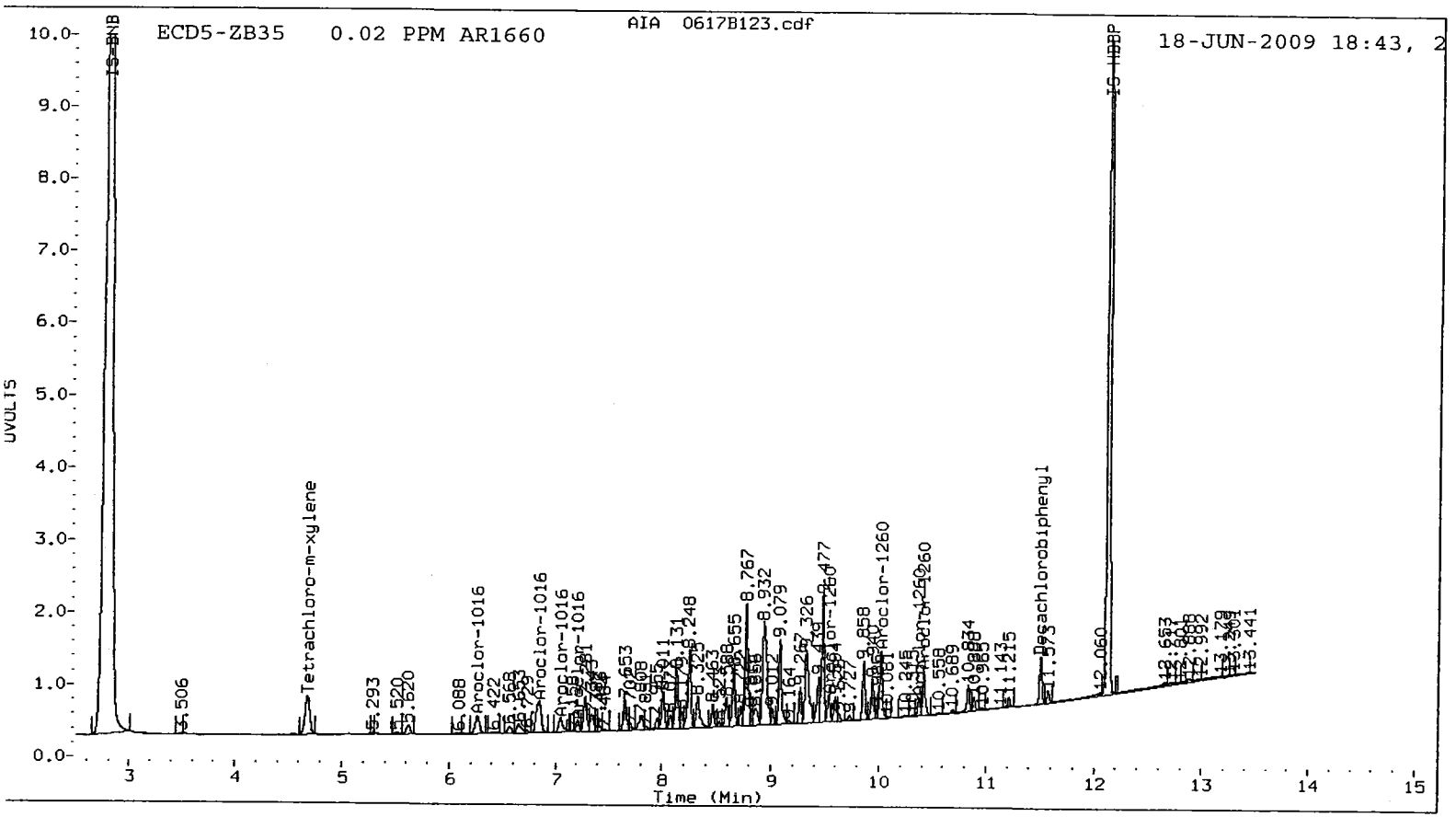
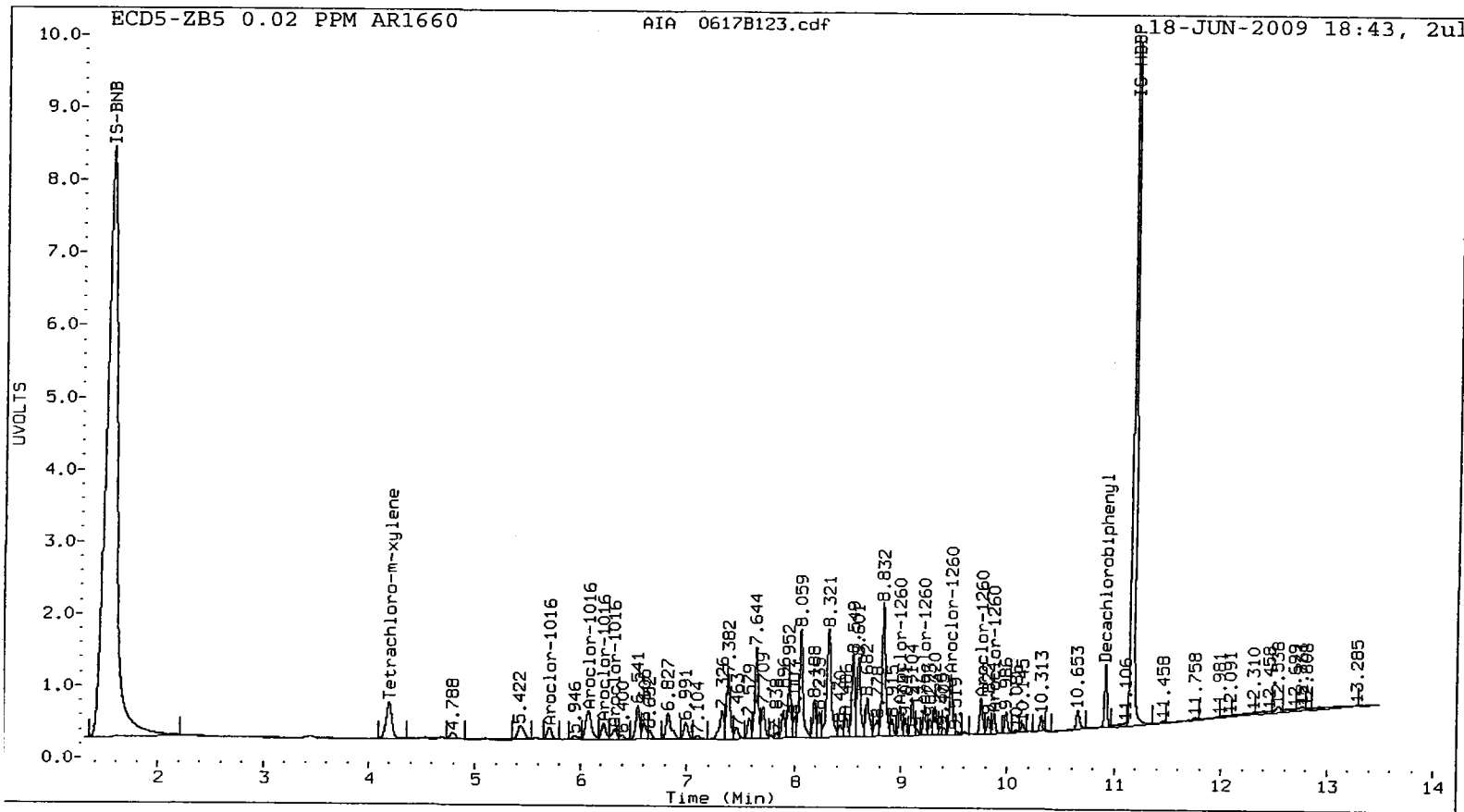
Aroclor-1260	1	8.991	0.001	383845	34.3	1	9.534	-0.001	298736	32.9
Aroclor-1260	2	9.220	0.001	361407	33.7	2	10.018	-0.001	780828	29.8
Aroclor-1260	3	9.469	0.001	865490	32.1	3	10.374	-0.001	210139	33.5
Aroclor-1260	4	9.751	0.002	505845	36.7	4	10.419	-0.001	519029	33.3
Aroclor-1260	5	9.873	0.002	241411	34.1	NS	---			----
Total Col1Ave (5 peaks):				34.2		Total Col2Ave (4 peaks):				32.4 RPD = 5
Corrected Ave (4 peaks):				33.6		Corrected Ave (3 peaks):				32.0 RPD = 5

Total PCB Area Col1 (4.291 - 10.817) = 26471470 Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 22030702 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B124.d
Data file 2: 20090618.B/ical-2.b/0617B124.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 1 PPM AR1660
Client ID:
Injection Date: 18-JUN-2009 19:00
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.188	-0.002 30693116	-0.001 29616817	4.680	-0.001 29616817	65.9	68.4	3.7	Tetrachloro-m-xylene
10.916	-0.002 21484900	0.000 16977974	11.503	0.000 16977974	78.2	78.9	0.9	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	164.9	171.1
Decachlorobiphenyl	195.5	197.2

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31189539	1.3
Hexabromobiphenyl	12091267	12625989	4.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	32824690	5.1
Hexabromobiphenyl	11173293	11659261	4.3

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

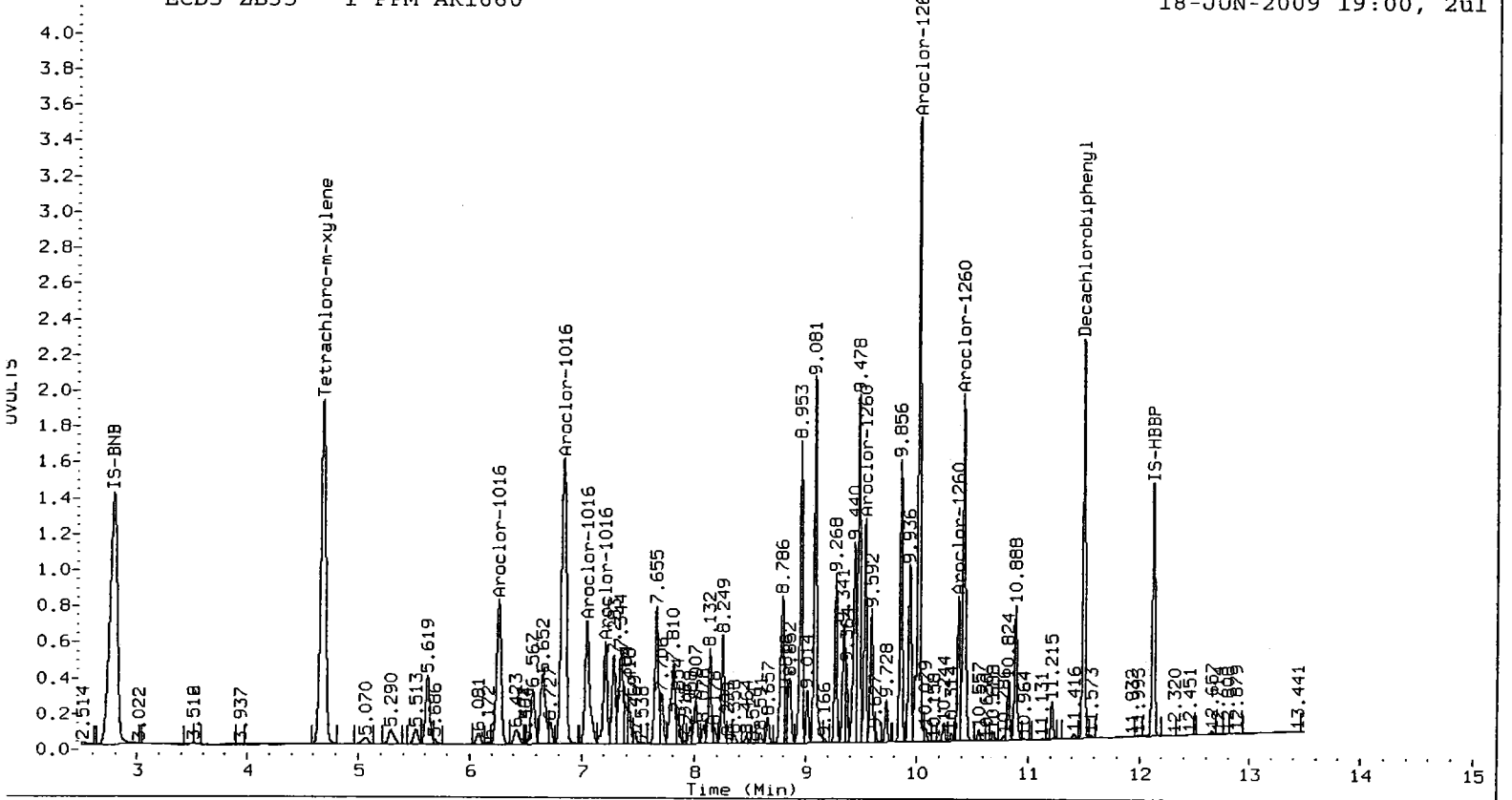
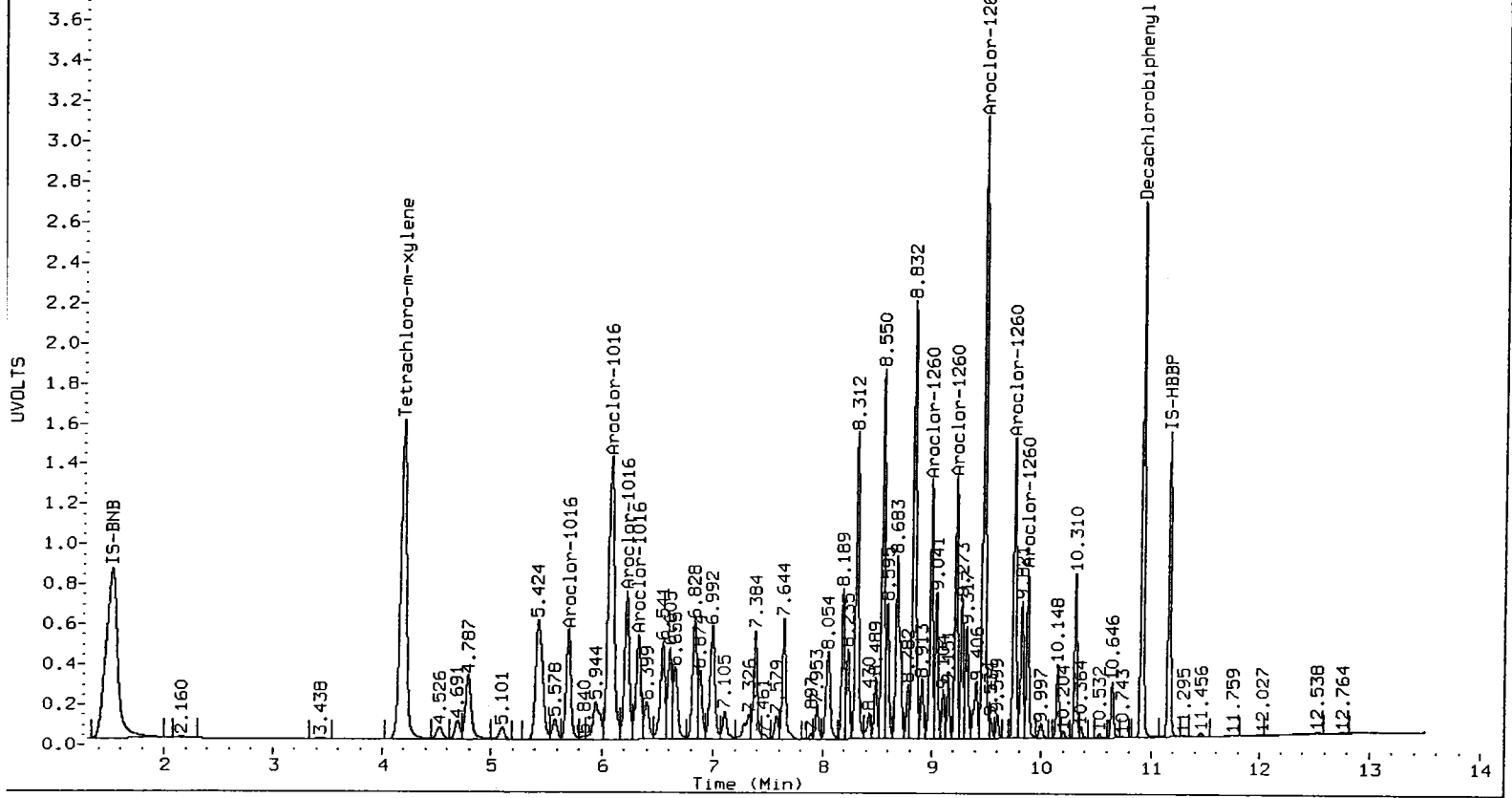
<- Indicates standard response outside Limits (-50 to +100%)

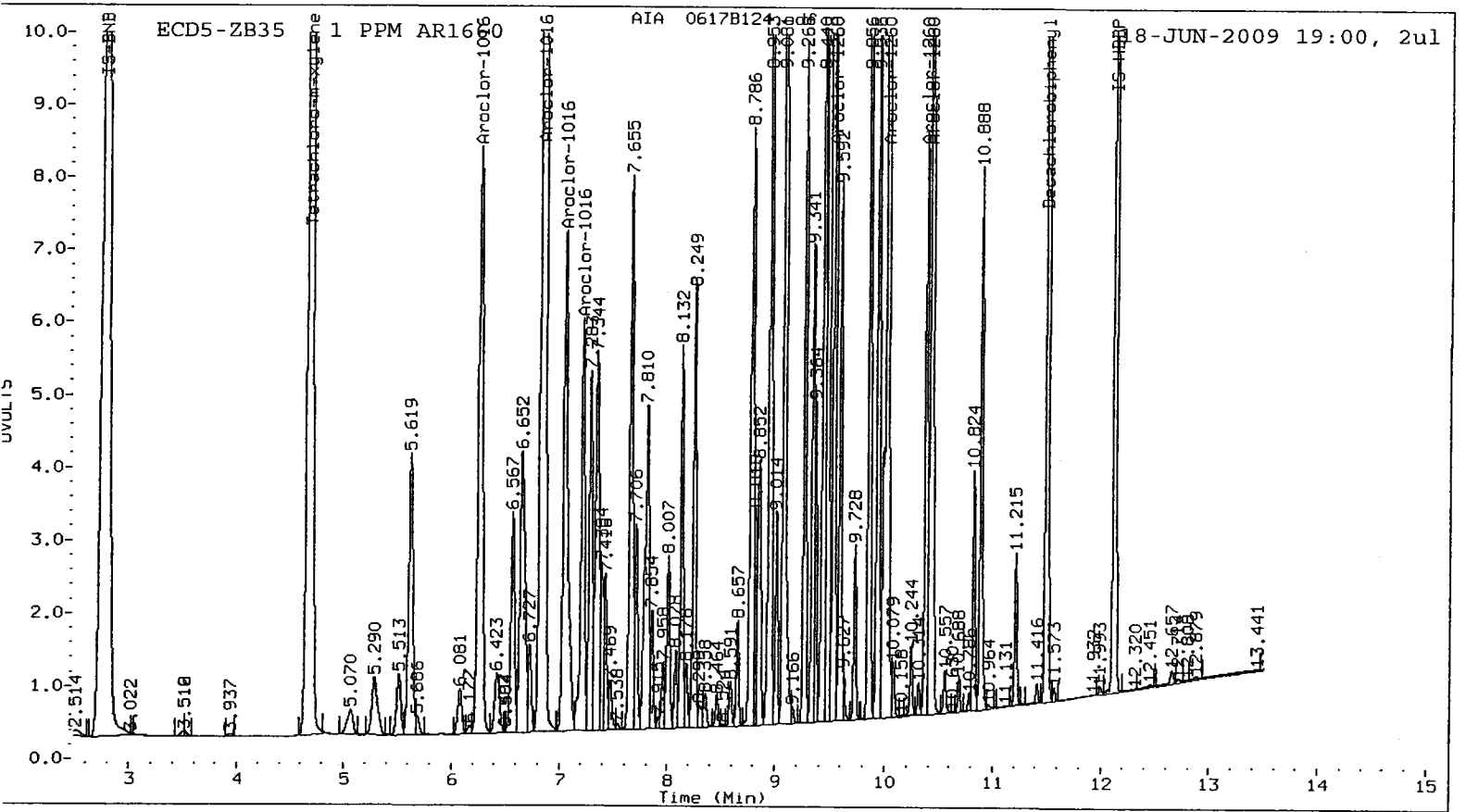
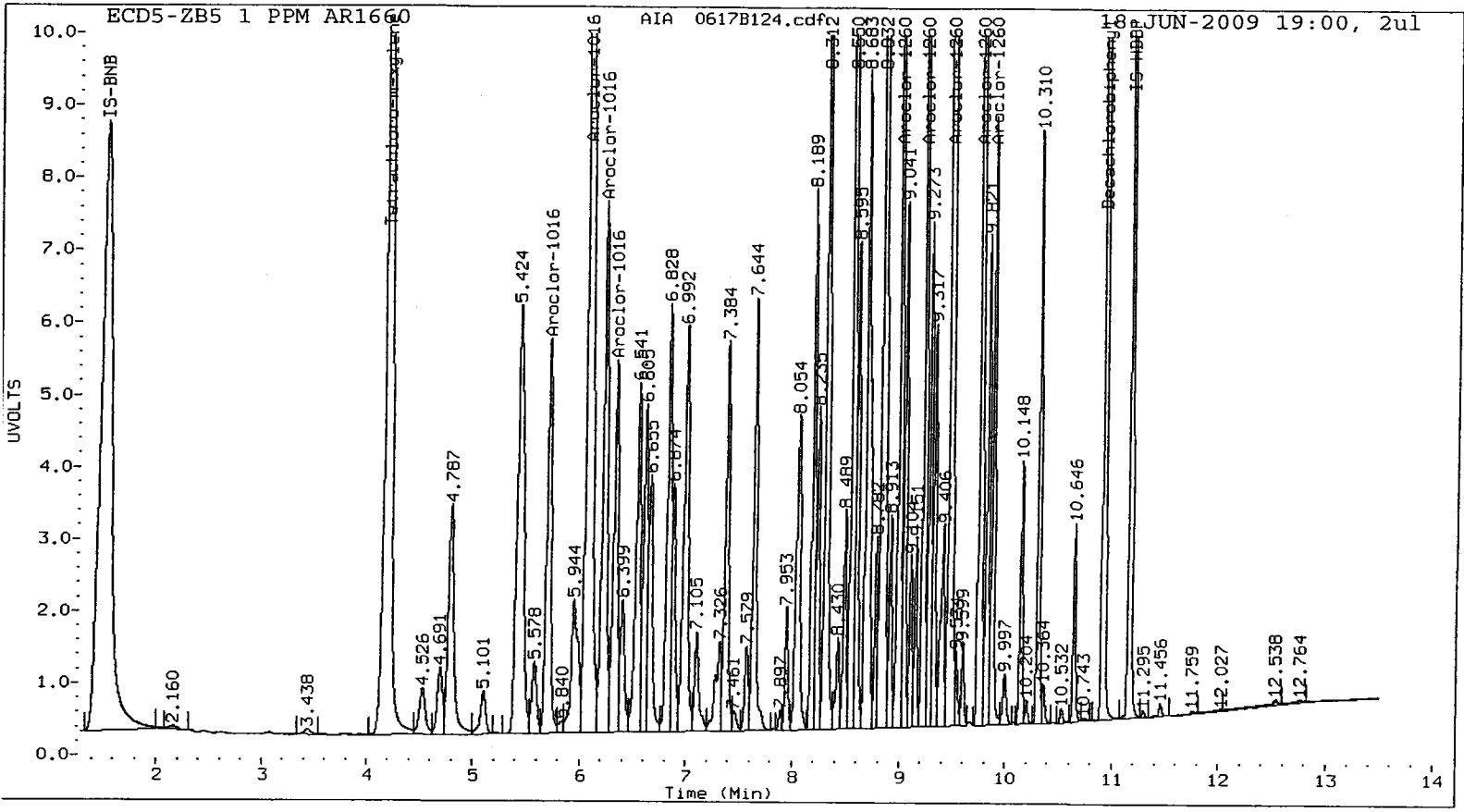
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.702	0.001	8343057	810.7	1	6.261	0.000	11913489	794.1
Aroclor-1016	2	6.077	0.002	26696036	829.8	2	6.845	0.001	25593284	840.4
Aroclor-1016	3	6.221	0.002	10931981	802.3	3	7.047	0.002	9767582	813.1
Aroclor-1016	4	6.327	0.001	7797916	824.2	4	7.209	0.000	6603816	860.4
Total CollAve (4 peaks):				816.7		Total Col2Ave (4 peaks):				827.0 RPD = 1
Corrected Ave (3 peaks):				812.4		Corrected Ave (3 peaks):				815.9 RPD = 0
Aroclor-1260	1	8.992	0.001	11459573	970.9	1	9.535	0.000	9519769	978.9
Aroclor-1260	2	9.219	0.001	10998974	973.0	2	10.018	0.000	28162314	1006.1
Aroclor-1260	3	9.469	0.001	27807193	976.7	3	10.374	0.000	6614981	984.4
Aroclor-1260	4	9.749	0.001	14200661	975.3	4	10.420	0.000	16447756	985.3
Aroclor-1260	5	9.872	0.001	7275898	974.4	NS	---			----
Total CollAve (5 peaks):				974.1		Total Col2Ave (4 peaks):				988.7 RPD = 1
Corrected Ave (4 peaks):				973.4		Corrected Ave (3 peaks):				982.9 RPD = 1

Total PCB Area Col1 (4.291 - 10.817) = 367413708 Col1 Total PCB = 1.5 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 320841701 Col2 Total PCB = 1.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B125.d
Data file 2: 20090618.B/ical-2.b/0617B125.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1 PPM AR1660
Client ID:
Injection Date: 18-JUN-2009 19:18
Report Date: 06/19/2009 15:30
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.185	-0.005 3815287	4.679 -0.002 3270980	4.679	-0.002 3270980	8.5	7.9	7.0	Tetrachloro-m-xylene
10.915	-0.002 2620248	11.501 -0.002 1935997	11.501	-0.002 1935997	10.2	9.5	6.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	21.3	19.9
Decachlorobiphenyl	25.5	23.8

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30023155	-2.5
Hexabromobiphenyl	12091267	11821688	-2.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	31232934	0.0
Hexabromobiphenyl	11173293	11010078	-1.5

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

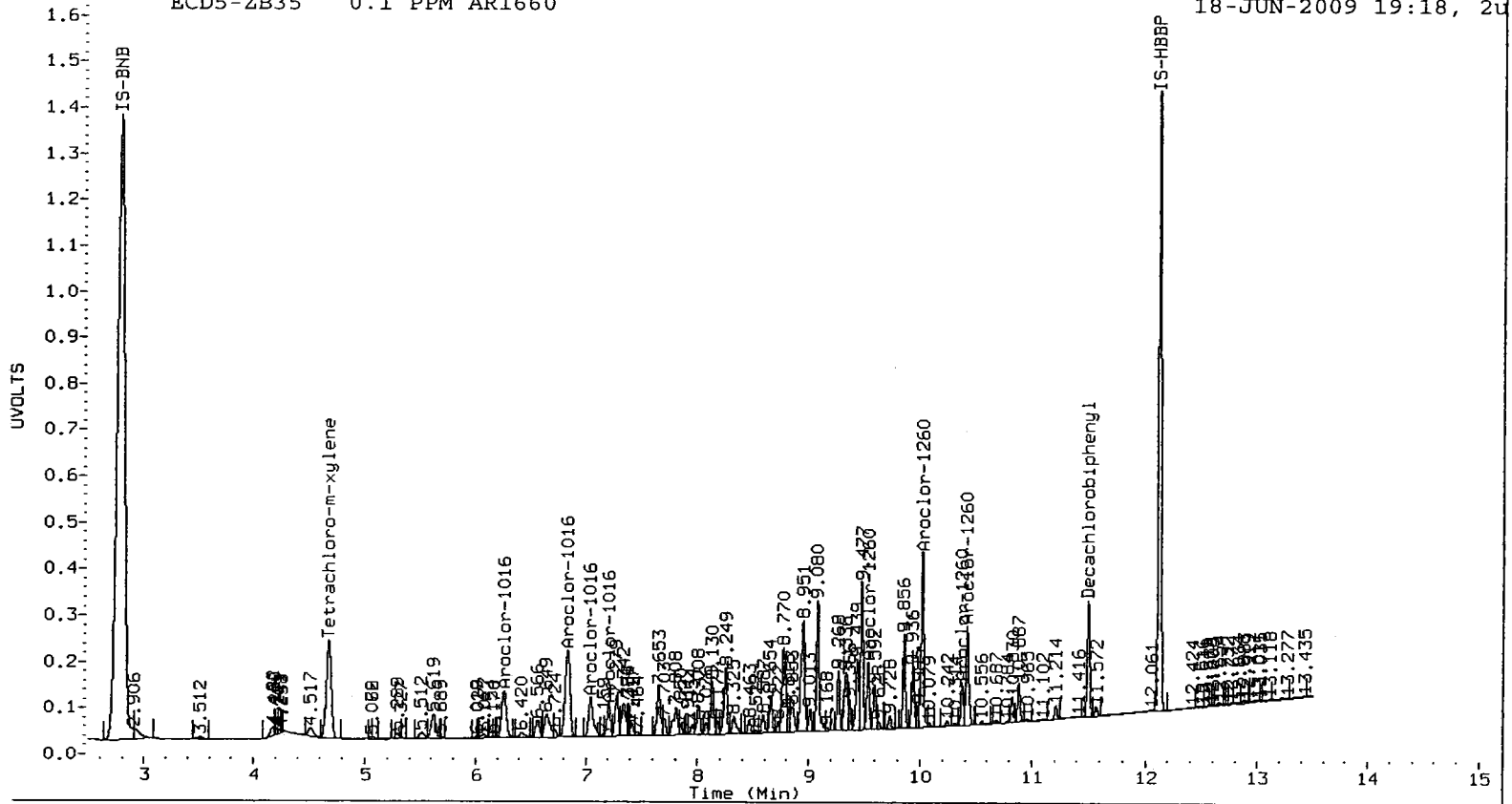
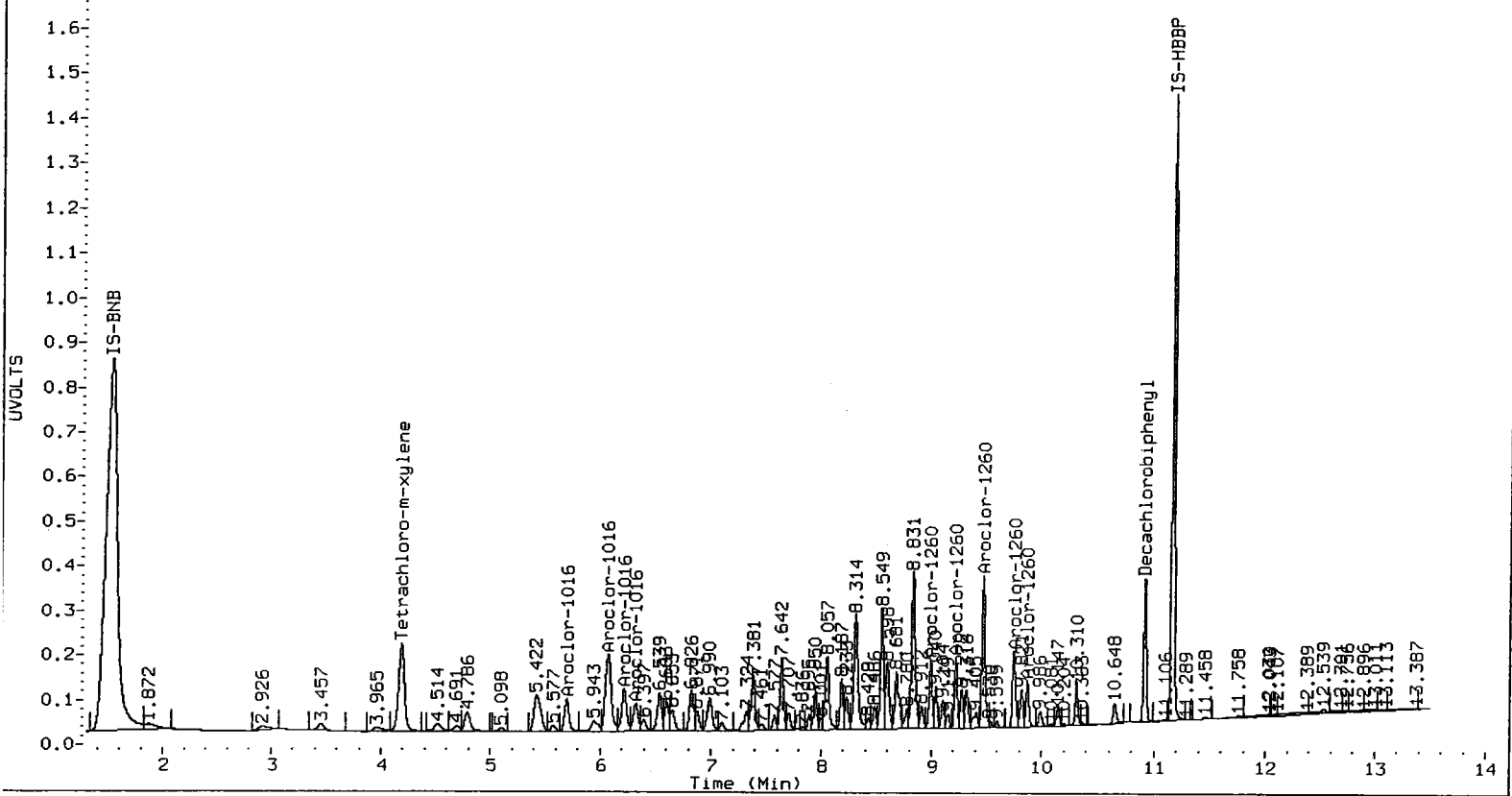
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.701	0.000	1094173	110.5	1	6.262	0.000	1554671	108.9
Aroclor-1016	2	6.076	0.000	3392868	109.6	2	6.840	-0.004	3034217	104.7
Aroclor-1016	3	6.219	0.001	1448910	110.5	3	7.043	-0.002	1223243	107.0
Aroclor-1016	4	6.325	0.000	975468	107.1	4	7.206	-0.004	762300	104.4
Total Col1Ave (4 peaks):				109.4	Total Col2Ave (4 peaks):				106.3	RPD = 3
Corrected Ave (3 peaks):				109.0	Corrected Ave (3 peaks):				105.4	RPD = 3

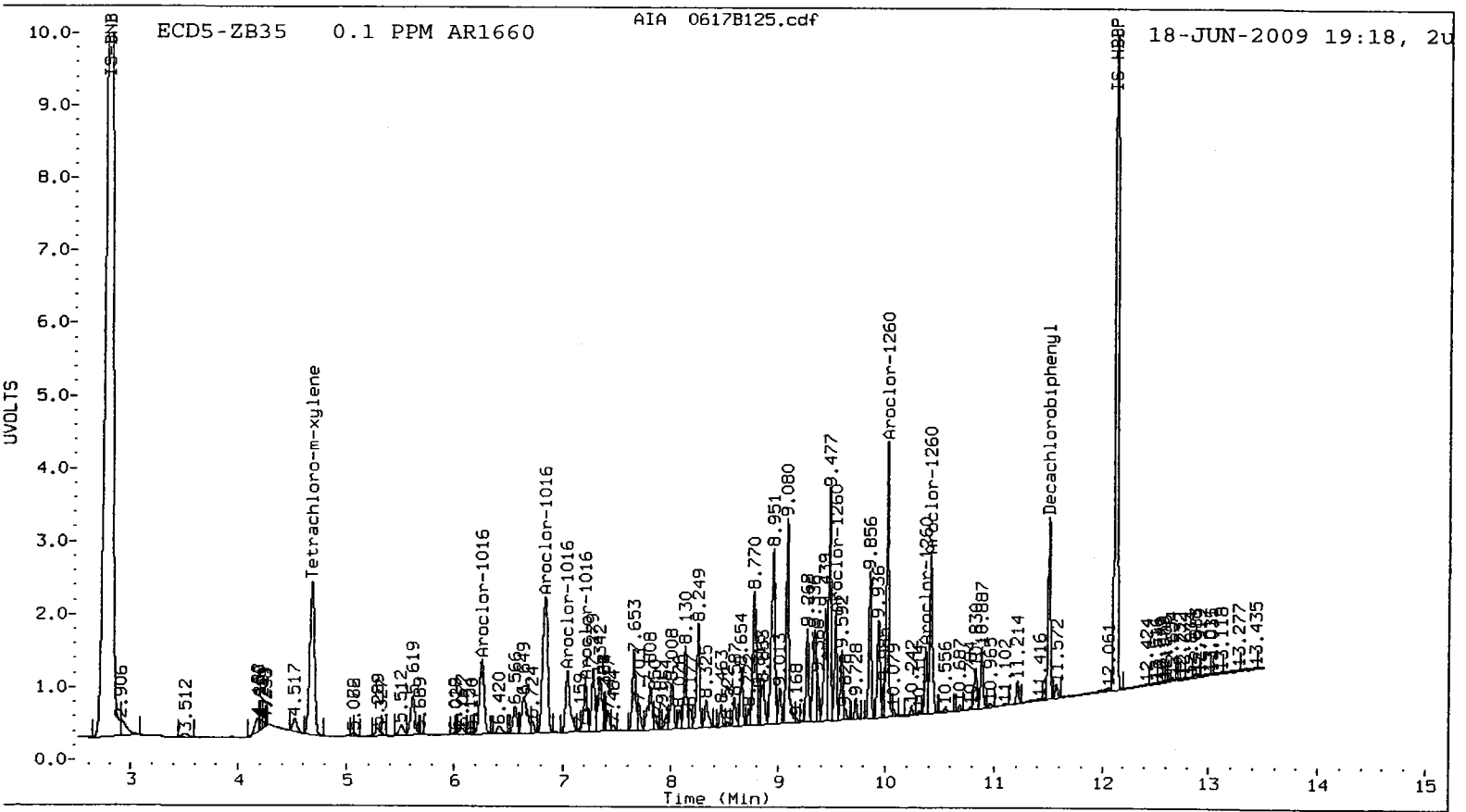
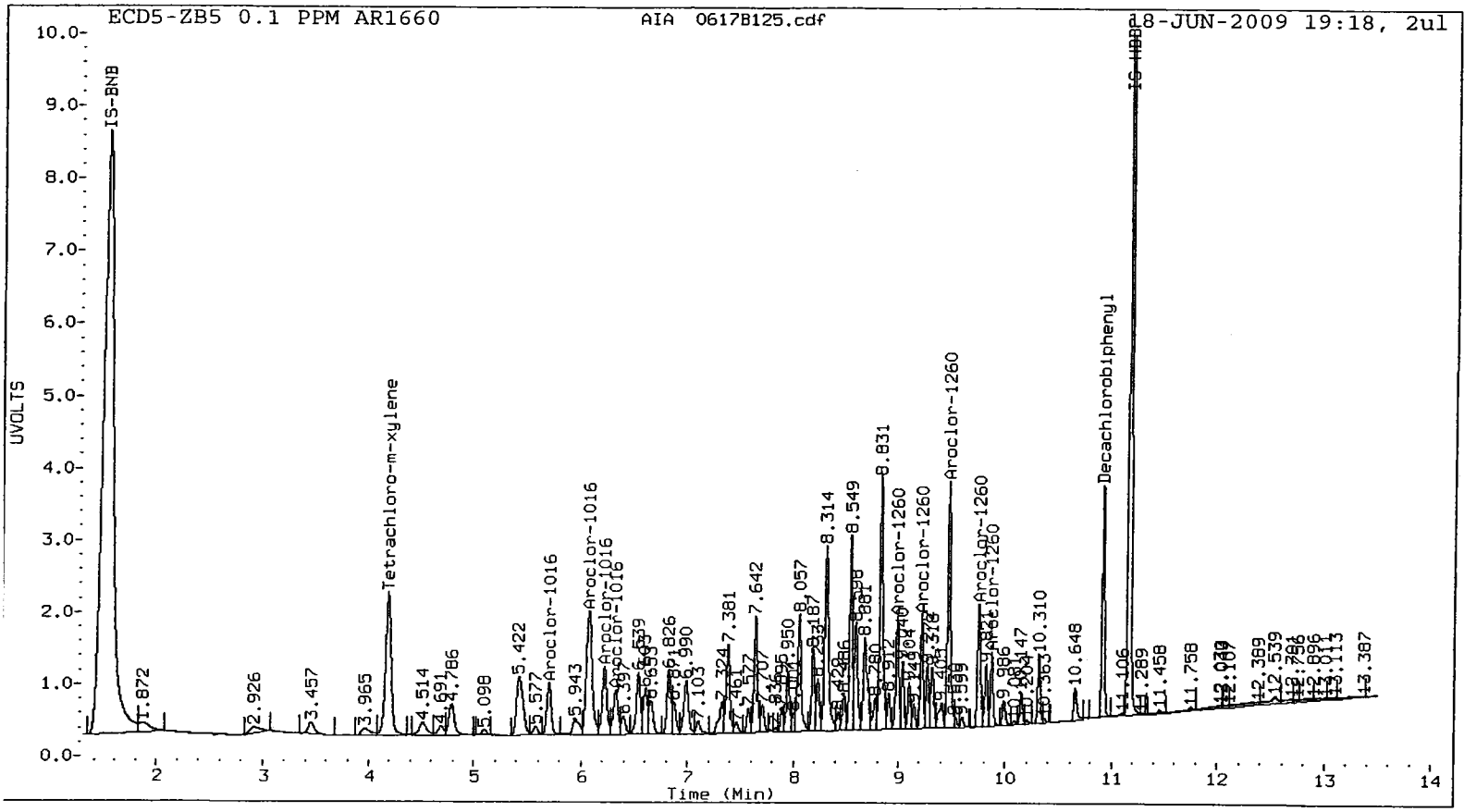
Aroclor-1260	1	8.990	0.000	1454150	131.6	1	9.534	-0.001	1141191	124.3
Aroclor-1260	2	9.219	0.000	1371435	129.6	2	10.017	-0.001	2888752	109.3
Aroclor-1260	3	9.469	0.001	3339193	125.3	3	10.374	-0.001	775117	122.2
Aroclor-1260	4	9.750	0.001	1761094	129.2	4	10.418	-0.001	1870362	118.6
Aroclor-1260	5	9.872	0.001	900204	128.8	NS	---			----
Total Col1Ave (5 peaks):				128.9	Total Col2Ave (4 peaks):				118.6	RPD = 8
Corrected Ave (4 peaks):				128.2	Corrected Ave (3 peaks):				116.7	RPD = 9

Total PCB Area Col1 (4.291 - 10.817) = 58559696 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 48760604 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B126.d
Data file 2: 20090618.B/ical-2.b/0617B126.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5 PPM AR1660
Client ID:
Injection Date: 18-JUN-2009 19:35
Report Date: 06/19/2009 15:31
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.187	-0.004 16358865	4.679 -0.002 15315325	4.679	35.1	36.5	4.0	Tetrachloro-m-xylene
10.915	-0.003 11197592	11.502 -0.001 8623446	11.502	41.8	41.2	1.5	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	87.7	91.3
Decachlorobiphenyl	104.6	103.0

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31239323	1.4
Hexabromobiphenyl	12091267	12303836	1.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	31794094	1.8
Hexabromobiphenyl	11173293	11334893	1.4

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

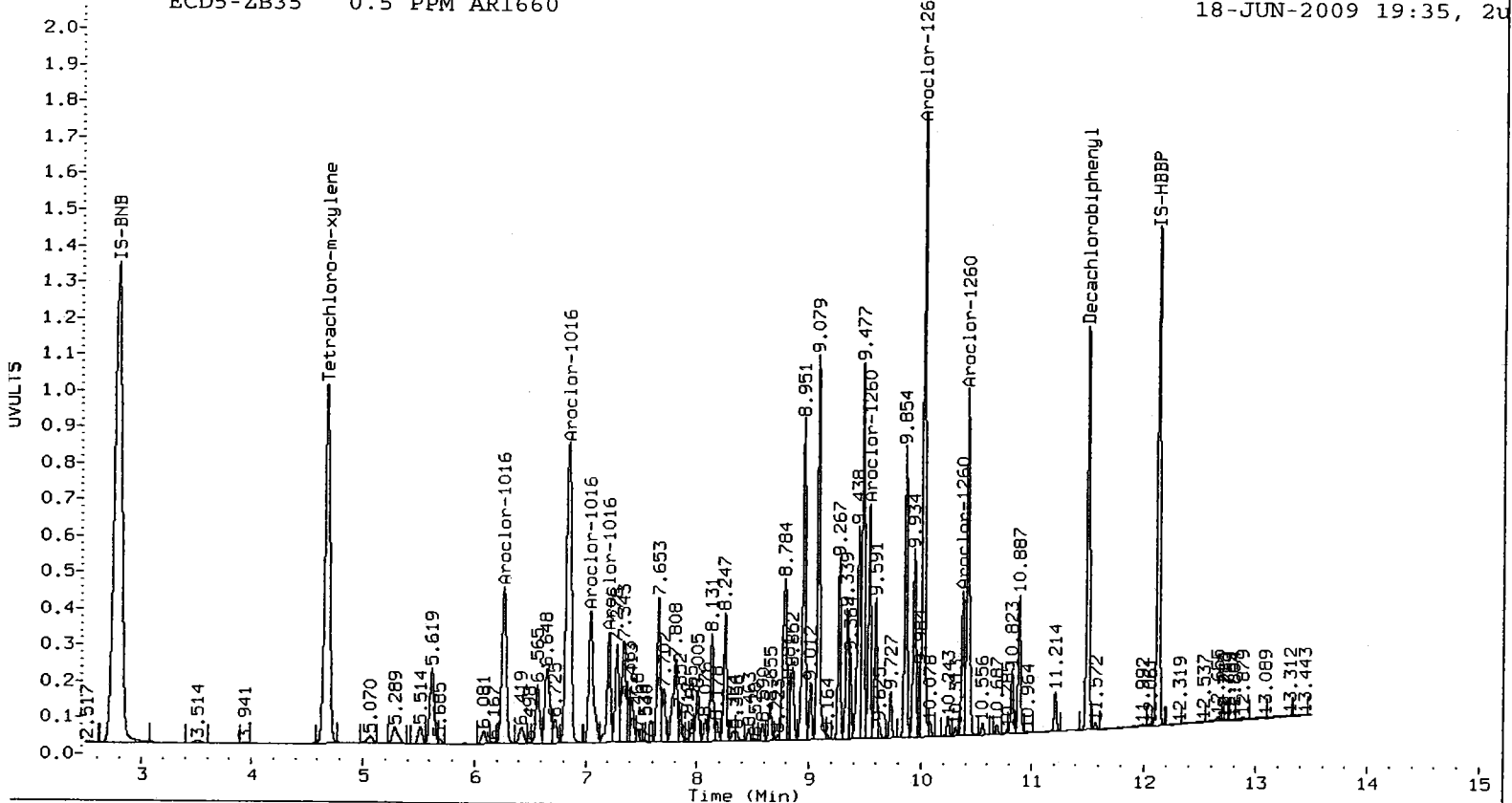
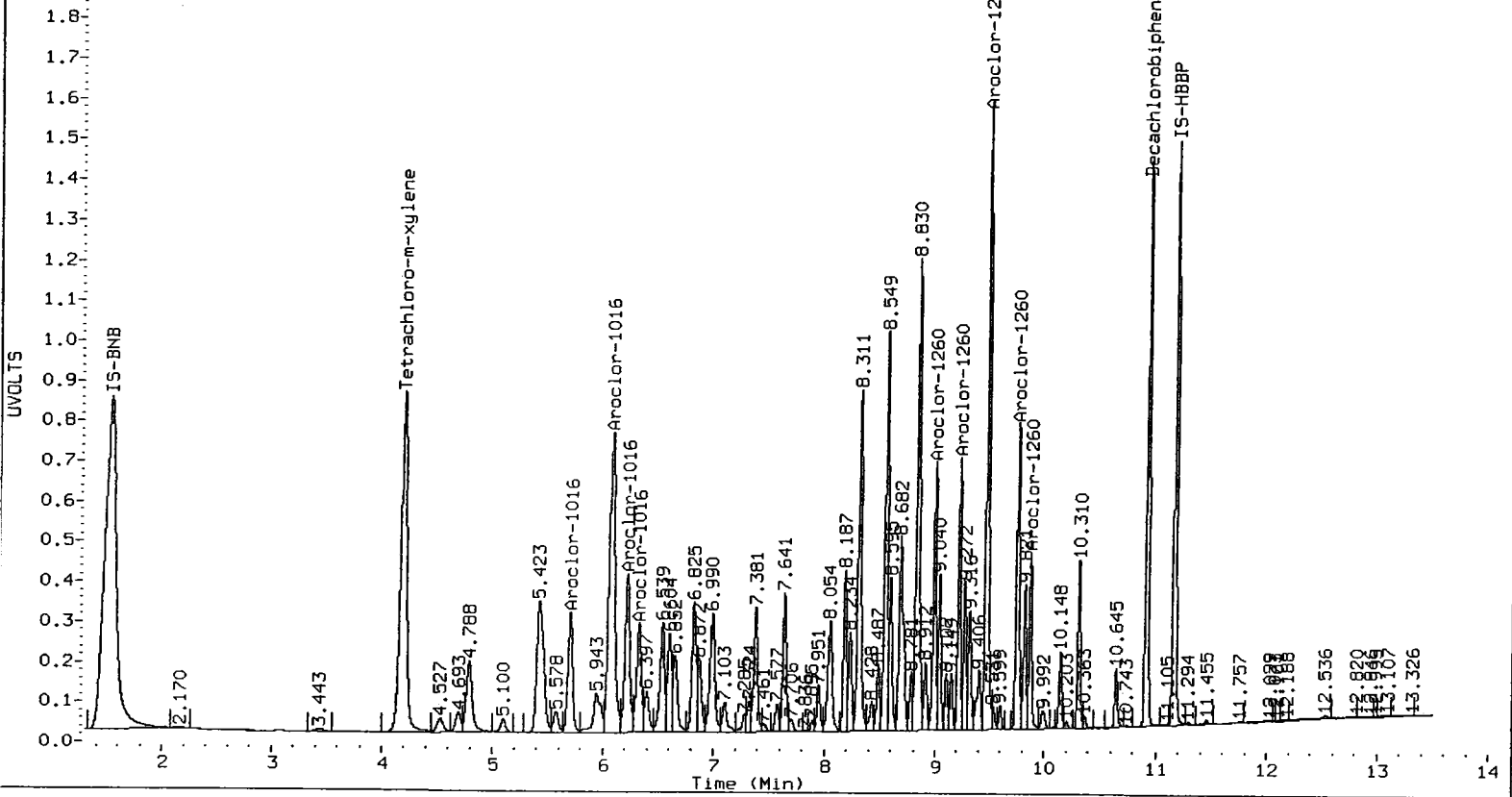
<- Indicates standard response outside Limits (-50 to +100%)

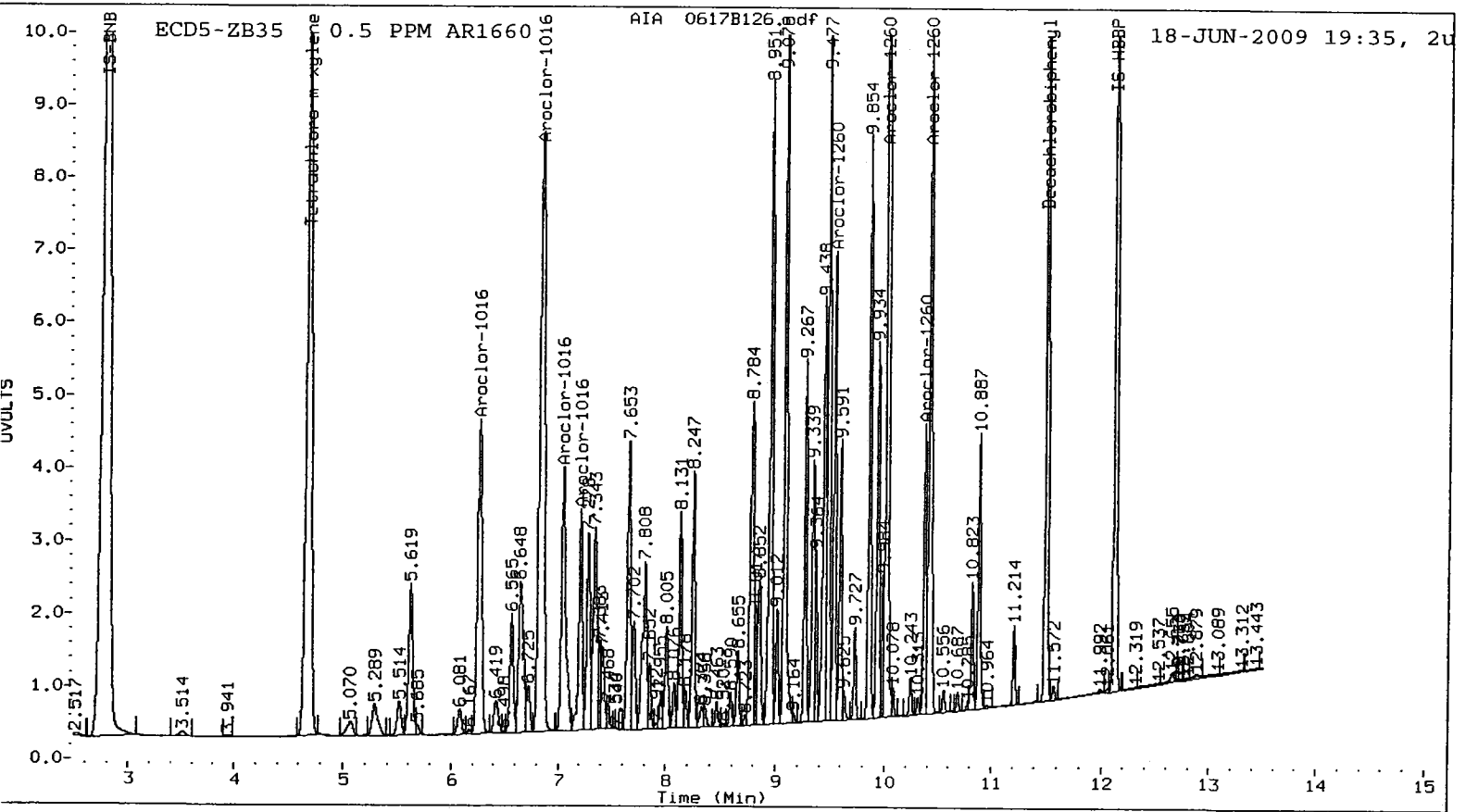
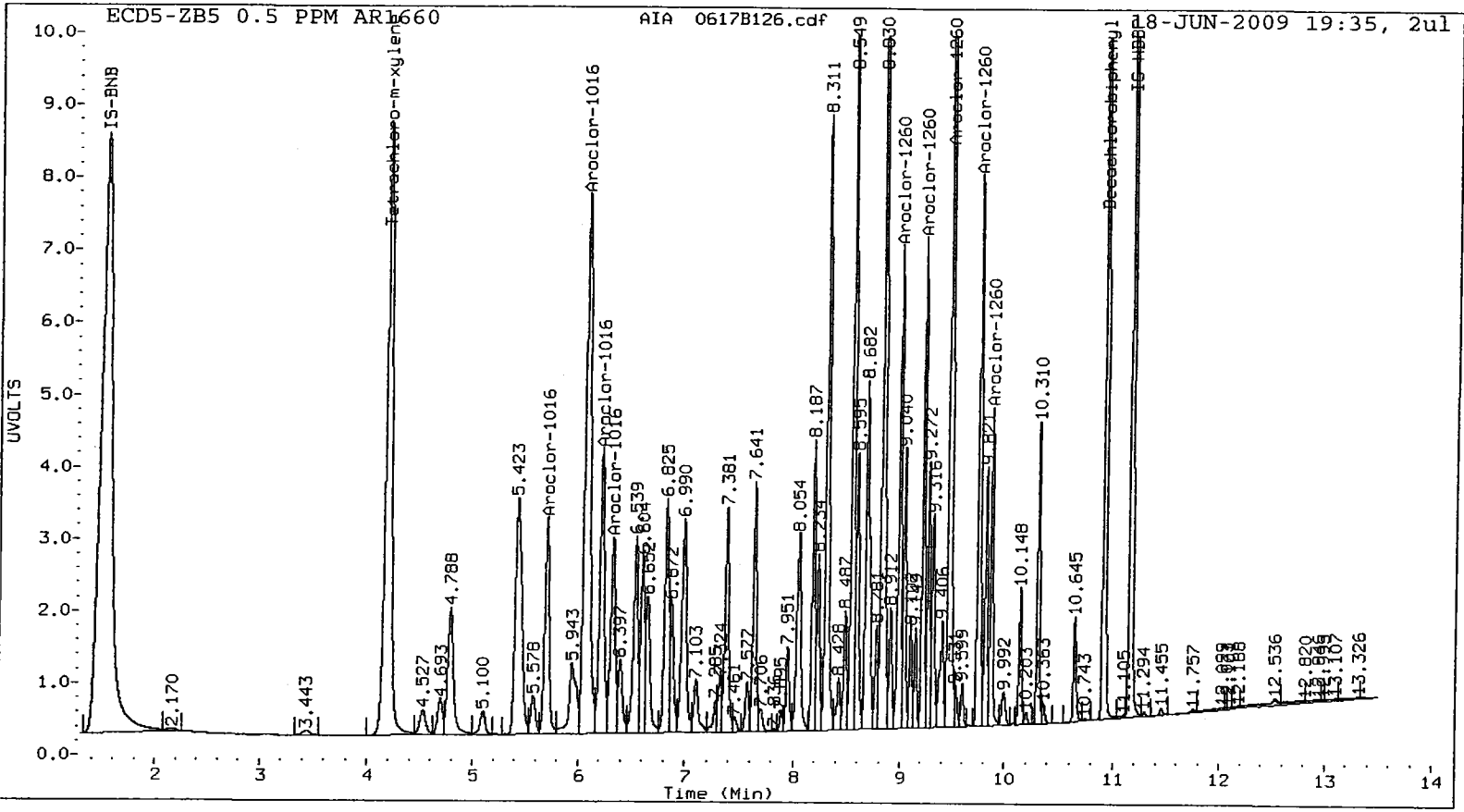
ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.701	0.000	4569610	443.3	1	6.261	-0.001	6391142	439.8	
Aroclor-1016	2	6.075	0.000	14369943	445.9	2	6.842	-0.002	13330616	451.9	
Aroclor-1016	3	6.219	0.000	5964144	437.0	3	7.043	-0.002	5124601	440.4	
Aroclor-1016	4	6.325	0.000	4177854	440.8	4	7.208	-0.002	3429994	461.4	
Total Col1Ave (4 peaks):				441.8		Total Col2Ave (4 peaks):				448.4	RPD = 1
Corrected Ave (3 peaks):				440.4		Corrected Ave (3 peaks):				444.0	RPD = 1
Aroclor-1260	1	8.990	0.000	6066332	527.4	1	9.533	-0.002	4926604	521.1	
Aroclor-1260	2	9.218	0.000	5792082	525.8	2	10.017	-0.002	13205285	485.3	
Aroclor-1260	3	9.468	0.000	14529829	523.7	3	10.373	-0.002	3357902	514.0	
Aroclor-1260	4	9.749	0.000	7414403	522.5	4	10.418	-0.002	8357278	514.9	
Aroclor-1260	5	9.871	0.000	3814036	524.1	NS	---			----	
Total Col1Ave (5 peaks):				524.7		Total Col2Ave (4 peaks):				508.8	RPD = 3
Corrected Ave (4 peaks):				524.1		Corrected Ave (3 peaks):				504.7	RPD = 4

Total PCB Area Col1 (4.291 - 10.817) = 200984196 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 171298917 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B127.d
Data file 2: 20090618.B/ical-2.b/0617B127.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660 ICV
Client ID:
Injection Date: 18-JUN-2009 19:52
Report Date: 06/19/2009 15:31
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.186	-0.005 9271628	-0.002 8466642	4.679	20.3	20.1	0.9	Tetrachloro-m-xylene
10.914	-0.003 6468529	-0.001 4804556	11.502	23.6	22.6	4.4	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	50.7	50.3
Decachlorobiphenyl	59.1	56.5

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30611969	-0.6
Hexabromobiphenyl	12091267	12581787	4.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	31935319	2.3
Hexabromobiphenyl	11173293	11509748	3.0

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

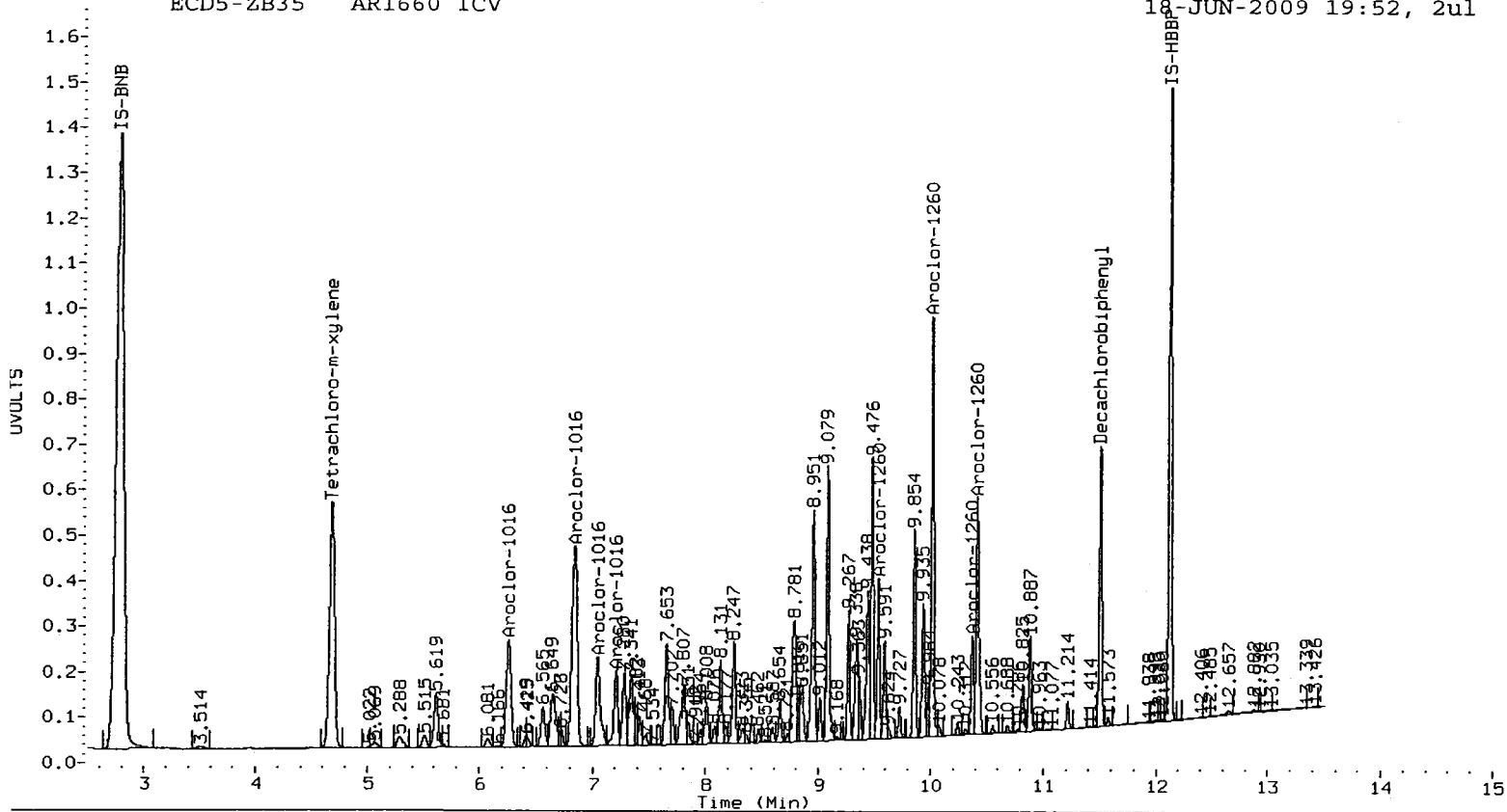
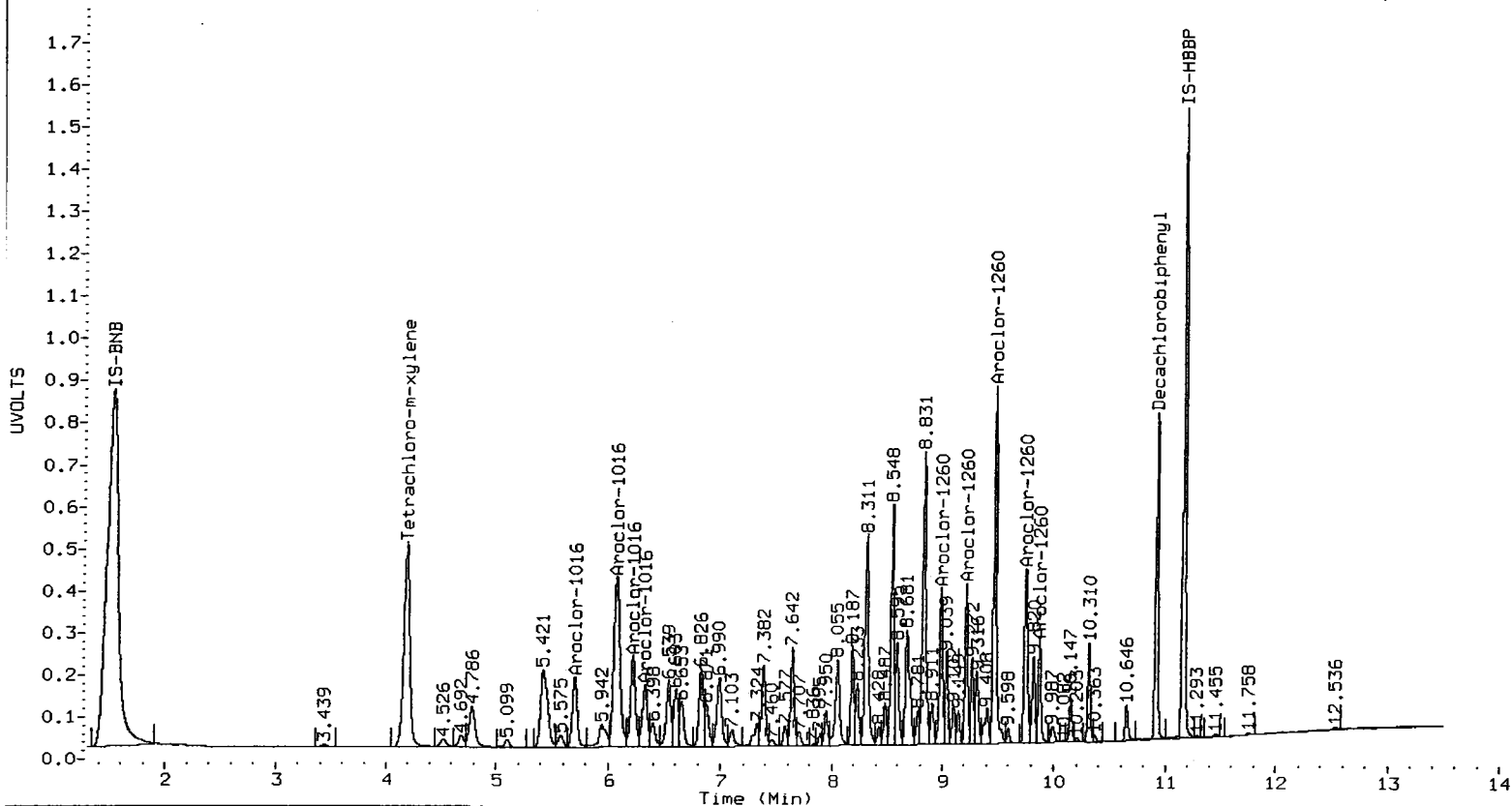
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.700	-0.001	2539326	251.4	1	6.260	-0.002	3520593	241.2	
Aroclor-1016	2	6.074	-0.001	7894362	250.0	2	6.843	-0.001	7192511	242.7	
Aroclor-1016	3	6.219	0.001	3293925	246.3	3	7.045	-0.001	2828384	242.0	
Aroclor-1016	4	6.326	0.000	2296426	247.3	4	7.207	-0.003	1890578	253.2	
Total CollAve (4 peaks):				248.8		Total Col2Ave (4 peaks):				244.8	RPD = 2
Corrected Ave (3 peaks):				247.9		Corrected Ave (3 peaks):				242.0	RPD = 2

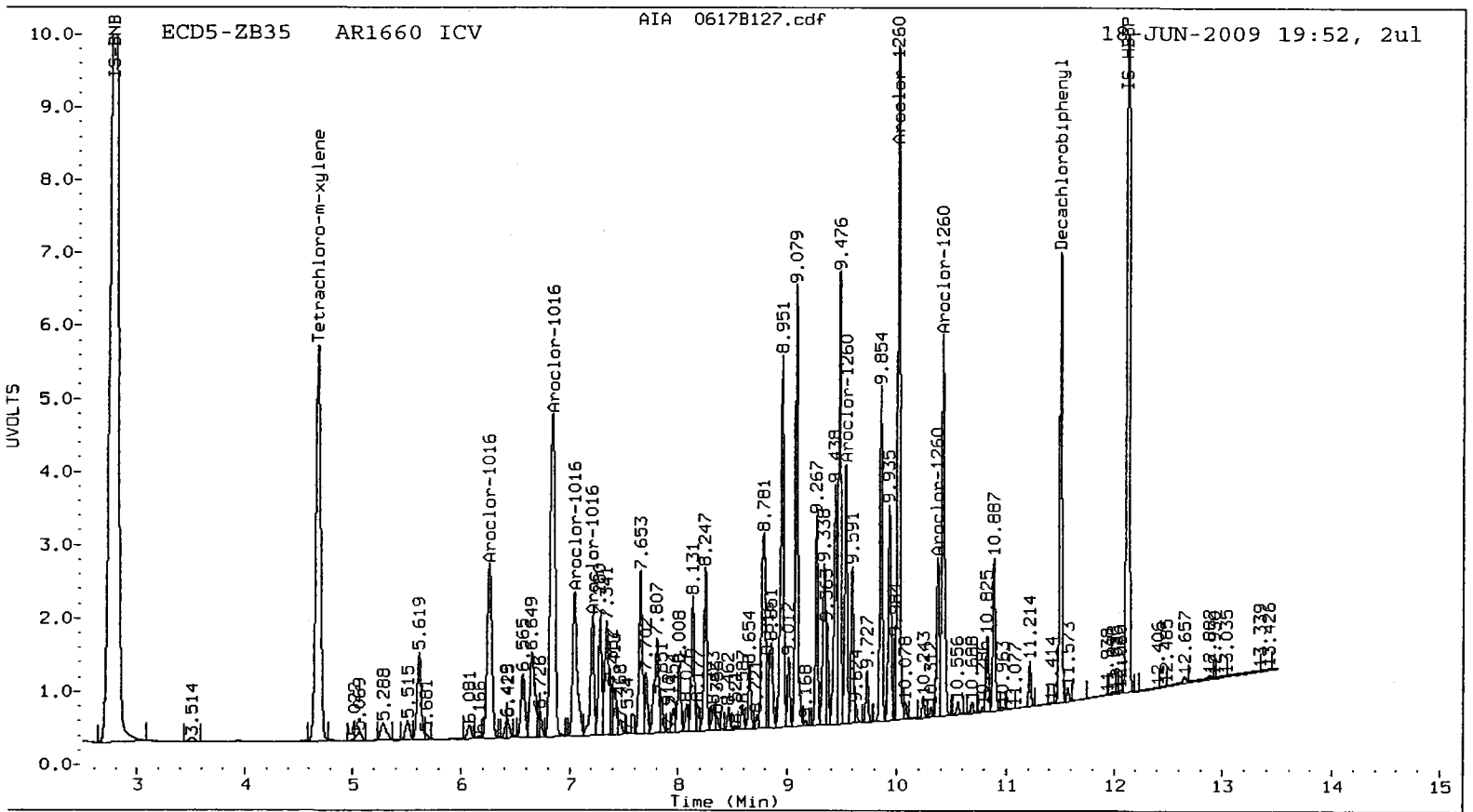
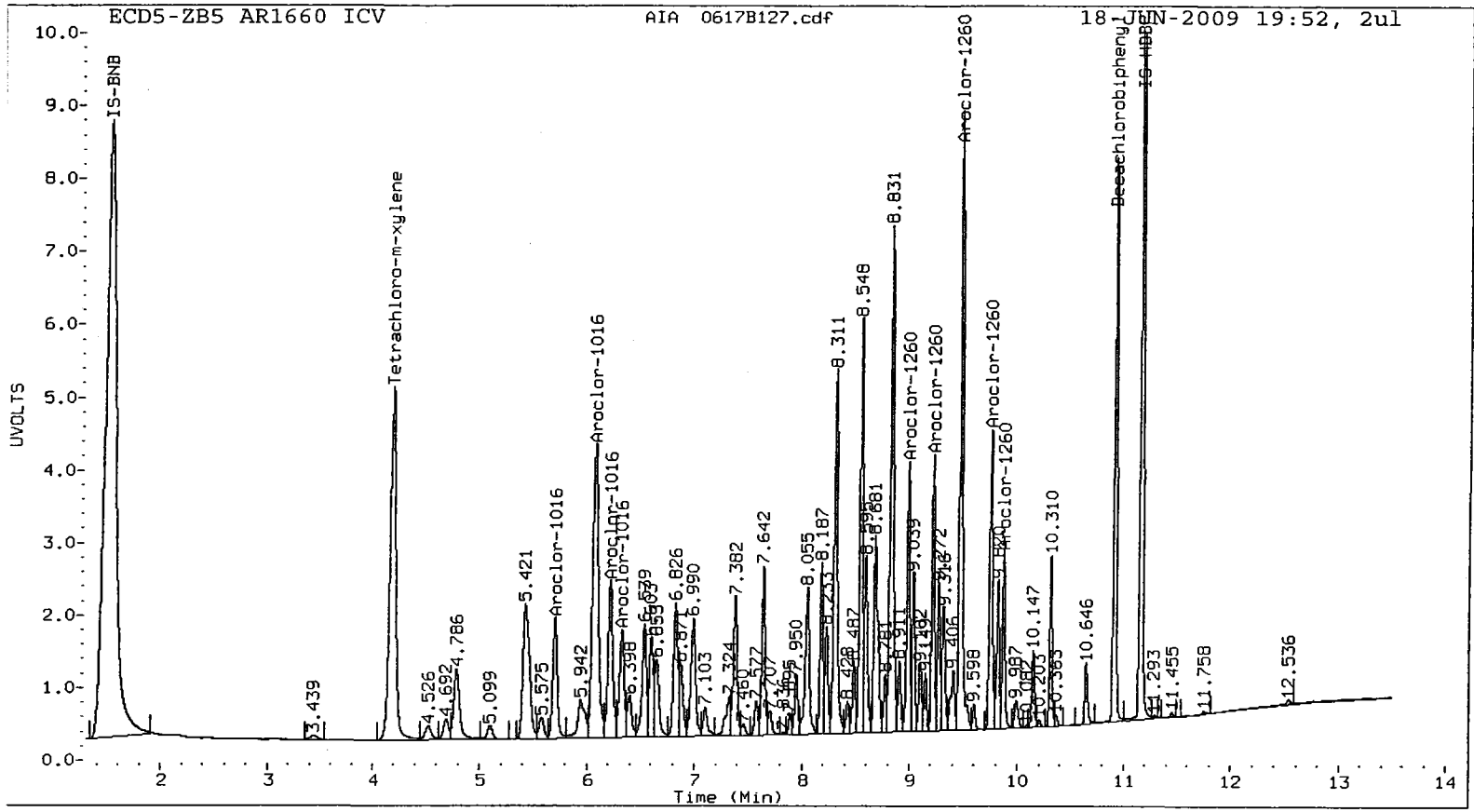
Aroclor-1260	1	8.990	0.000	3431992	291.8	1	9.533	-0.002	2734830	284.9	
Aroclor-1260	2	9.218	0.000	3256885	289.1	2	10.017	-0.002	7154575	258.9	
Aroclor-1260	3	9.468	0.000	8333346	293.7	3	10.373	-0.001	1838505	277.2	
Aroclor-1260	4	9.749	0.000	4144199	285.6	4	10.418	-0.002	4535246	275.2	
Aroclor-1260	5	9.871	0.000	2137888	287.3	NS	---			----	
Total CollAve (5 peaks):				289.5		Total Col2Ave (4 peaks):				274.0	RPD = 5
Corrected Ave (4 peaks):				288.5		Corrected Ave (3 peaks):				270.4	RPD = 6

Total PCB Area Coll (4.291 - 10.817) = 117062384 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 98696239 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B128.d
Data file 2: 20090618.B/ical-2.b/0617B128.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 18-JUN-2009 20:10
Report Date: 06/19/2009 15:31
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.185	-0.006	8434912	4.680	-0.001	7767706	17.9	18.1	0.9	Tetrachloro-m-xylene
10.915	-0.003	5863672	11.501	-0.002	4317447	21.3	20.1	5.9	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	44.8	45.2
Decachlorobiphenyl	53.2	50.1

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31547490	2.4
Hexabromobiphenyl	12091267	12664418	4.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	32576856	4.3
Hexabromobiphenyl	11173293	11665821	4.4

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

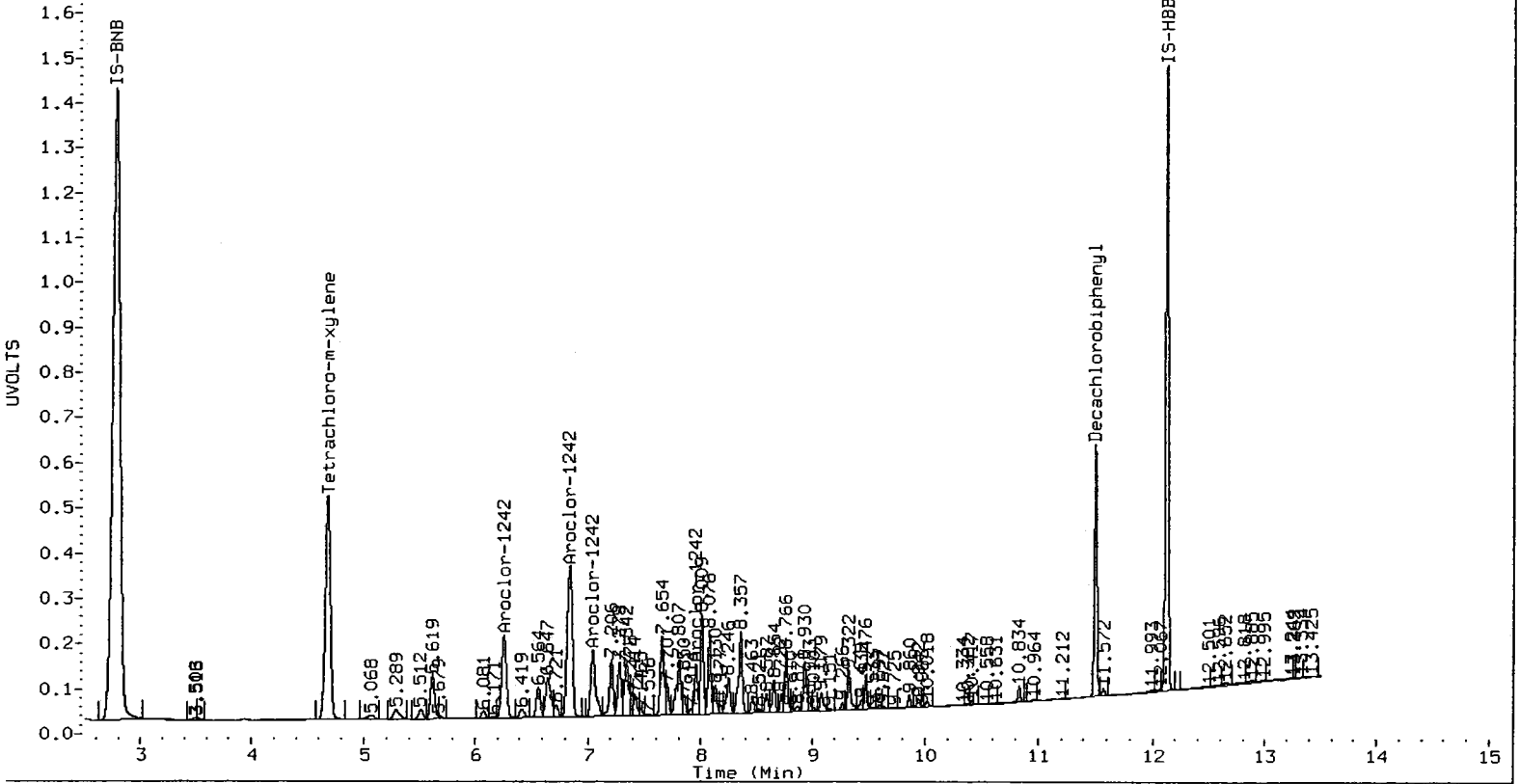
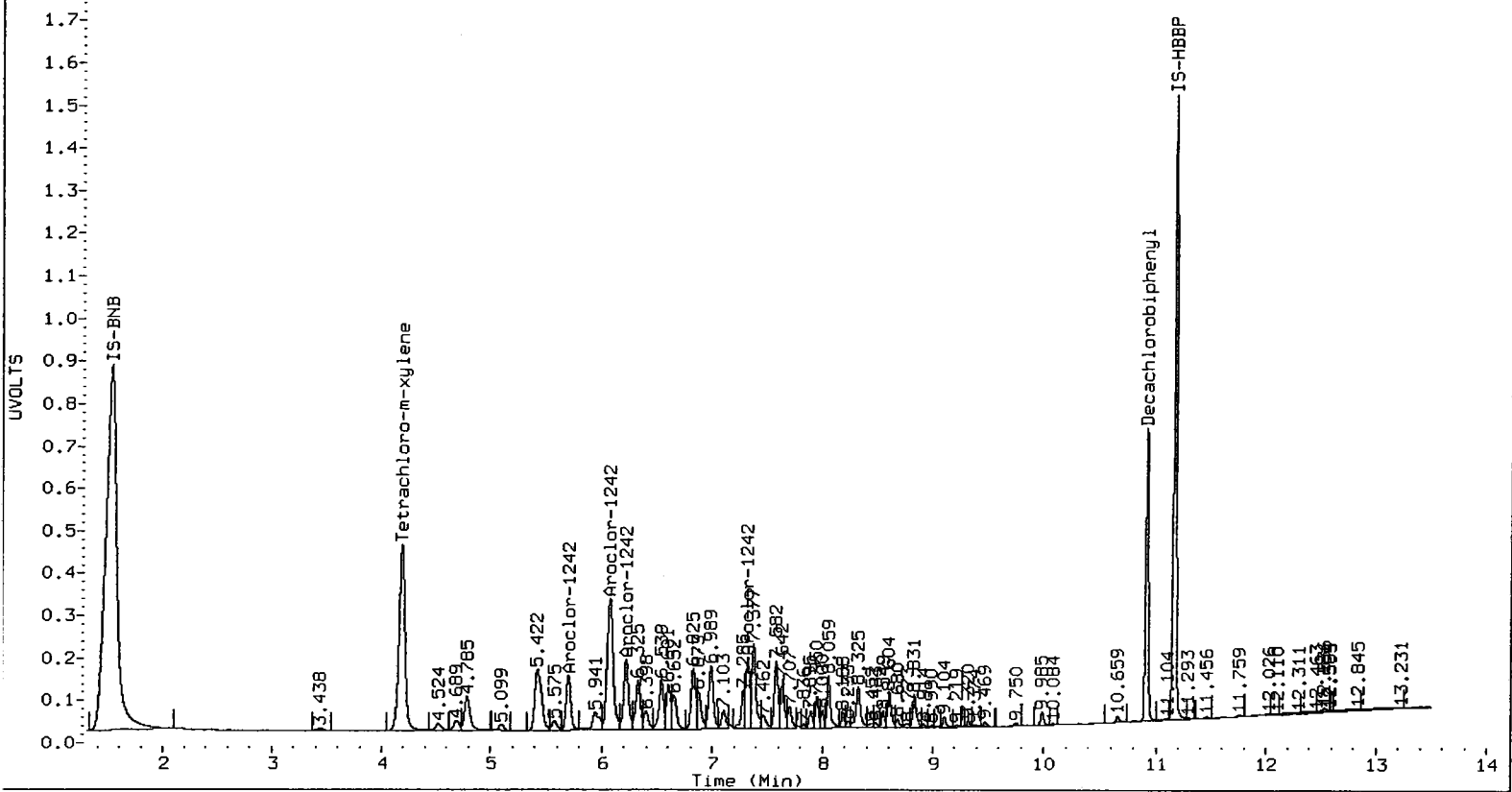
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	5.700	0.000	1959821	250.0	1	6.259	-0.003	2731702	250.0
Aroclor-1242	2	6.074	0.000	6024952	250.0	2	6.840	-0.005	5451973	250.0
Aroclor-1242	3	6.219	0.000	2553357	250.0	3	7.043	-0.004	2176139	250.0
Aroclor-1242	4	7.324	0.000	2077931	250.0	4	7.954	-0.003	1042448	250.0
Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

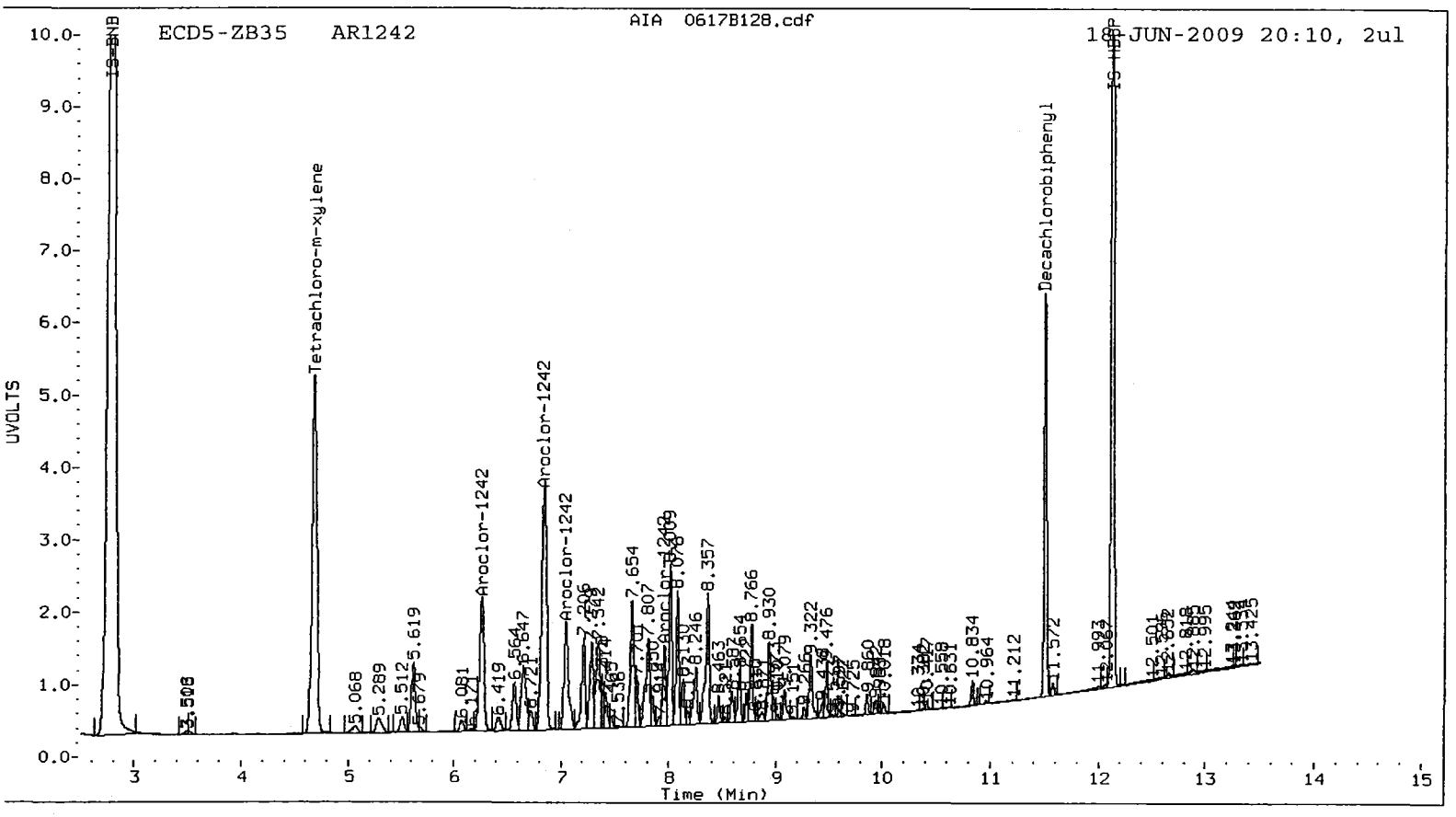
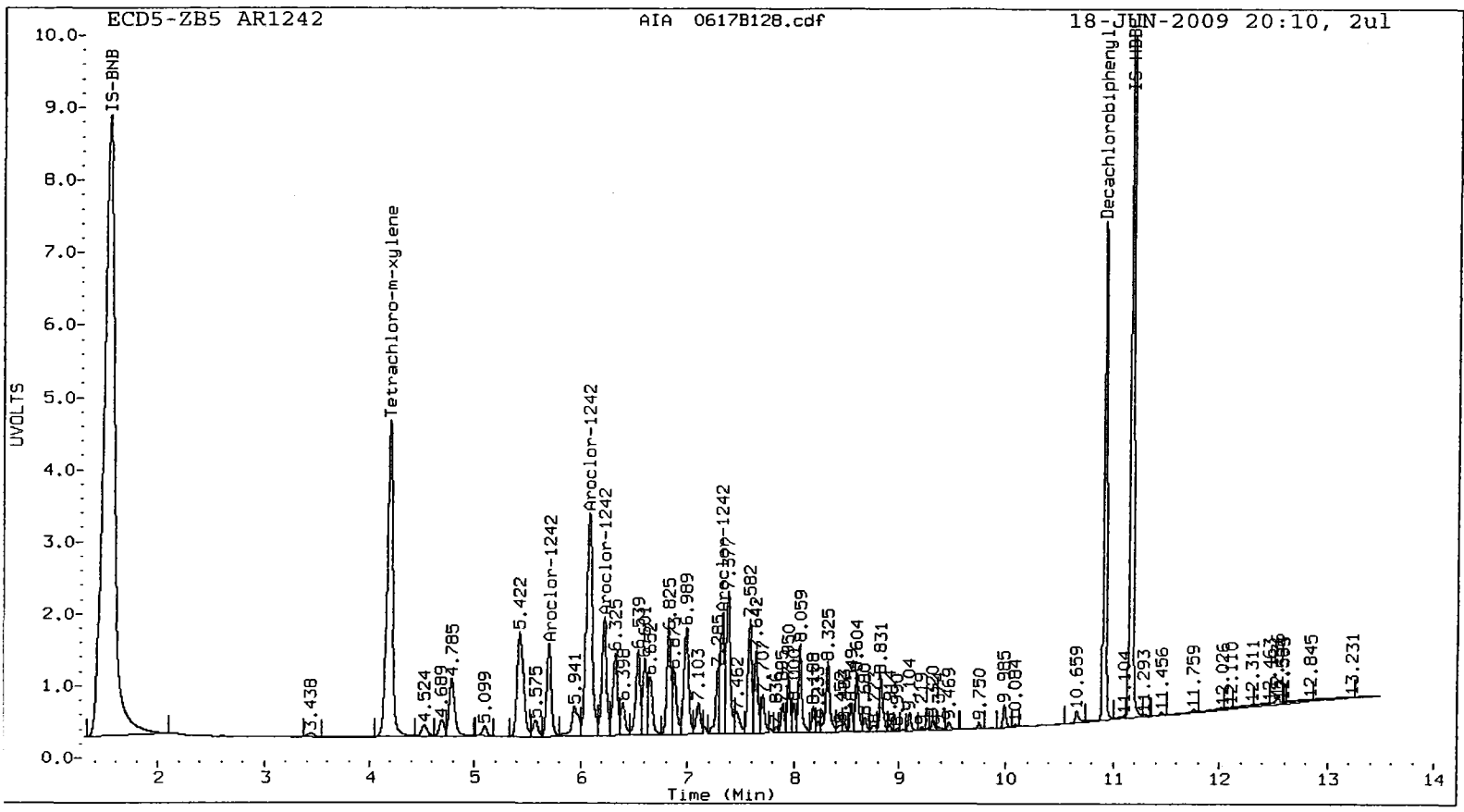
Total PCB Area Col1 (4.291 - 10.817) = 49716448 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 42802644 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B129.d
Data file 2: 20090618.B/ical-2.b/0617B129.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 18-JUN-2009 20:27
Report Date: 06/19/2009 15:31
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.188	-0.003	8219049	4.680	-0.001	7690965	17.5	18.0	2.4	Tetrachloro-m-xylene
10.915	-0.003	5639974	11.500	-0.003	4269658	20.5	19.9	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	43.9	44.9
Decachlorobiphenyl	51.2	49.7

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31385486	1.9
Hexabromobiphenyl	12091267	12648939	4.6

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	32445350	3.9
Hexabromobiphenyl	11173293	11647195	4.2

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

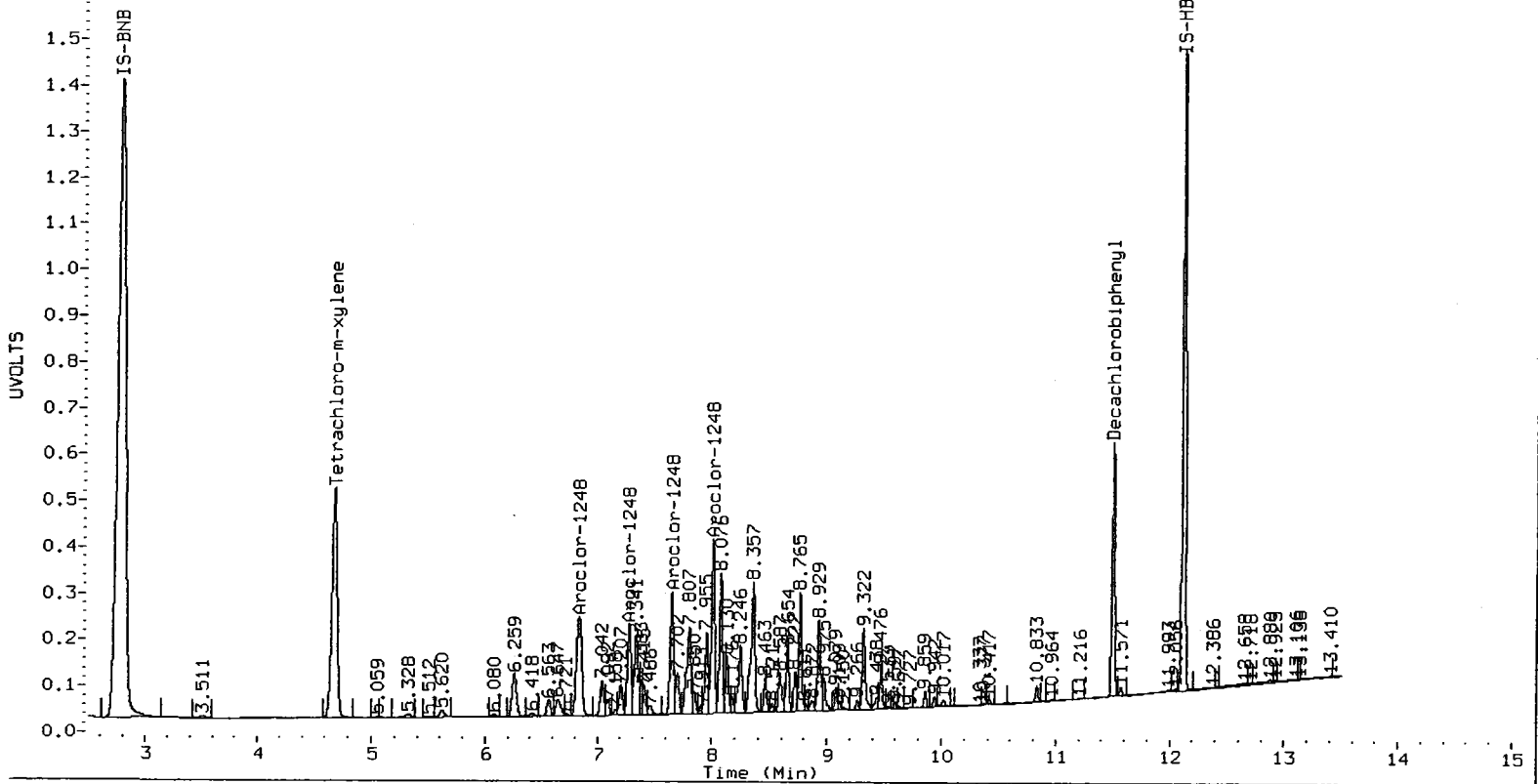
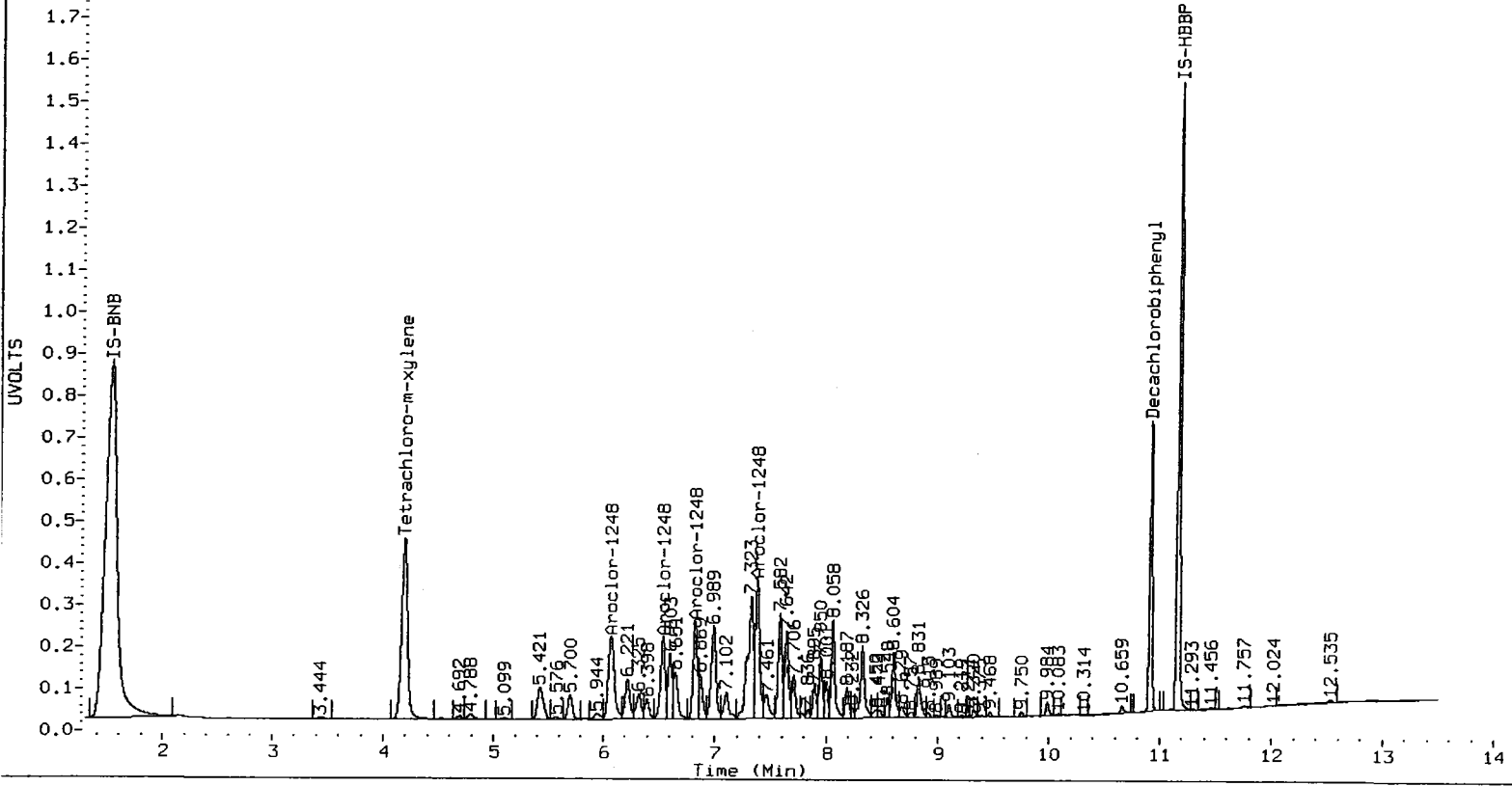
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	6.072	-0.002	3897667	250.0	1	6.834	-0.005	3542885	250.0
Aroclor-1248	2	6.539	-0.004	2696893	250.0	2	7.278	-0.004	2203112	250.0
Aroclor-1248	3	6.825	-0.004	3062671	250.0	3	7.652	-0.002	2797709	250.0
Aroclor-1248	4	7.376	-0.003	4551089	250.0	4	8.009	-0.002	3627739	250.0
Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

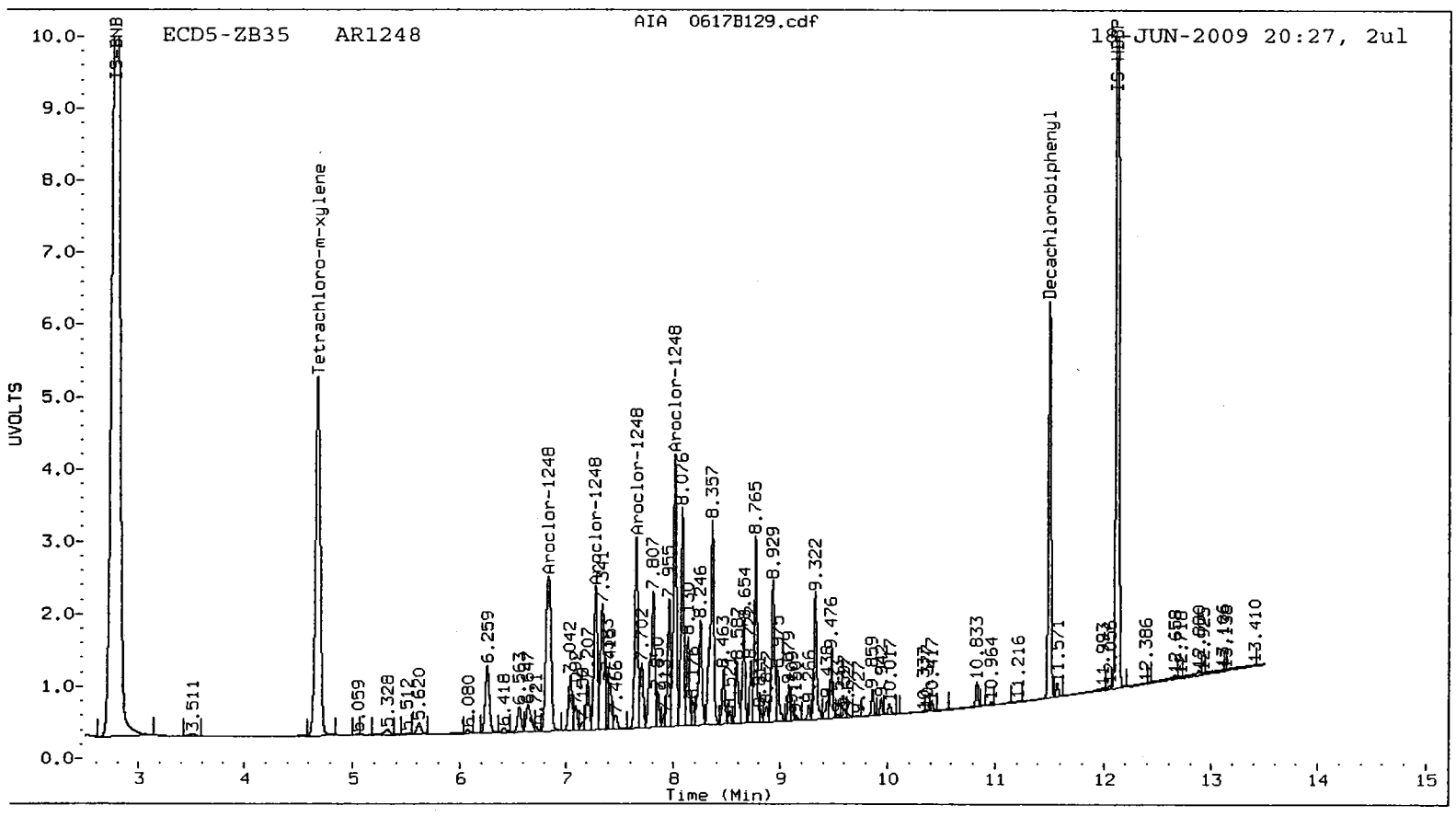
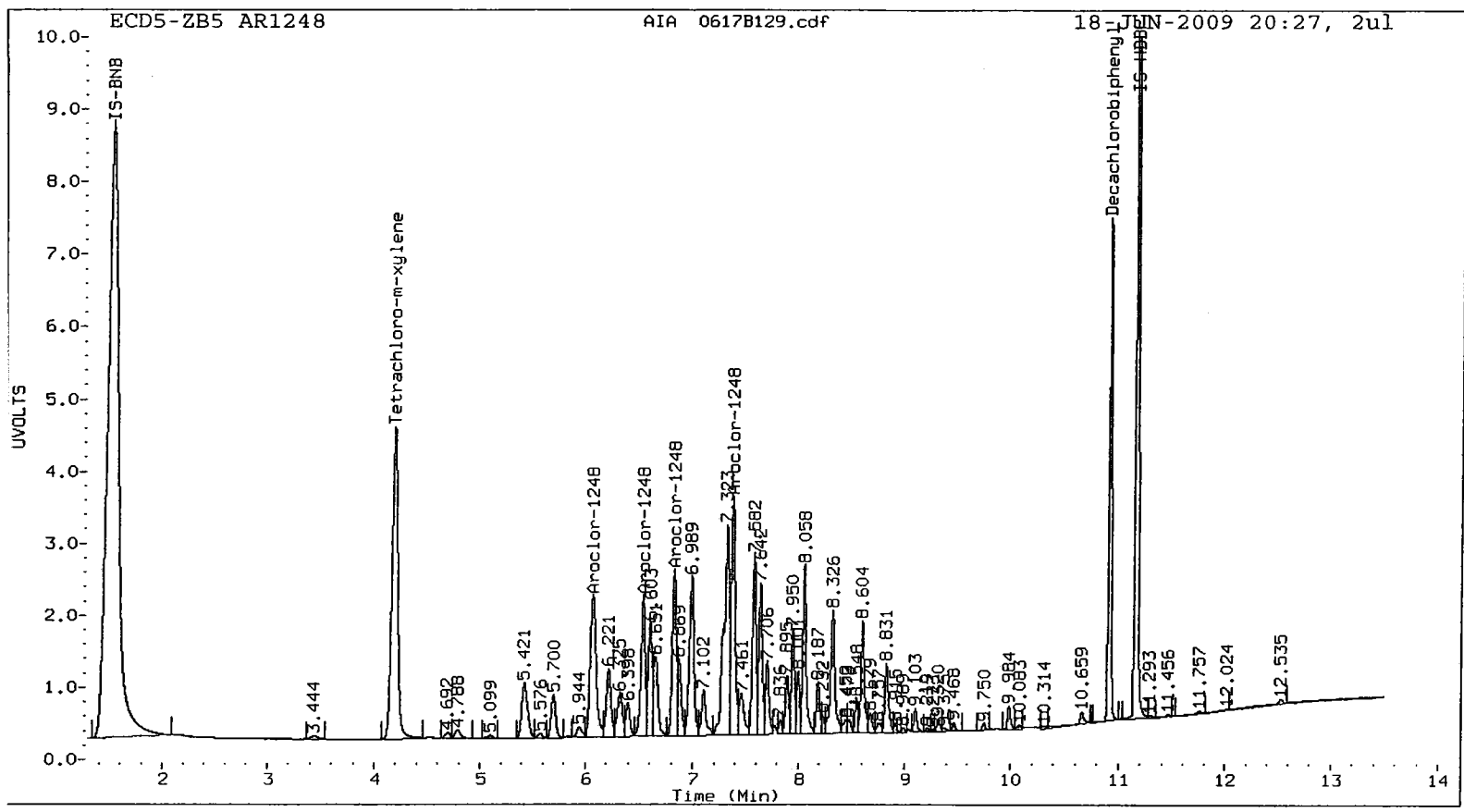
Total PCB Area Col1 (4.291 - 10.817) = 58131554 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 49108688 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B130.d
Data file 2: 20090618.B/ical-2.b/0617B130.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 18-JUN-2009 20:44
Report Date: 06/19/2009 15:31
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.183	-0.008	8313511	4.677	-0.004	7722570	18.0	18.4	2.1	Tetrachloro-m-xylene
10.915	-0.002	5808985	11.502	-0.002	4310490	21.4	20.4	4.8	Decachlorobiphenyl

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	45.0	45.9
Decachlorobiphenyl	53.6	51.1

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30980559	0.6
Hexabromobiphenyl	12091267	12451687	3.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	31896487	2.2
Hexabromobiphenyl	11173293	11427067	2.3

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

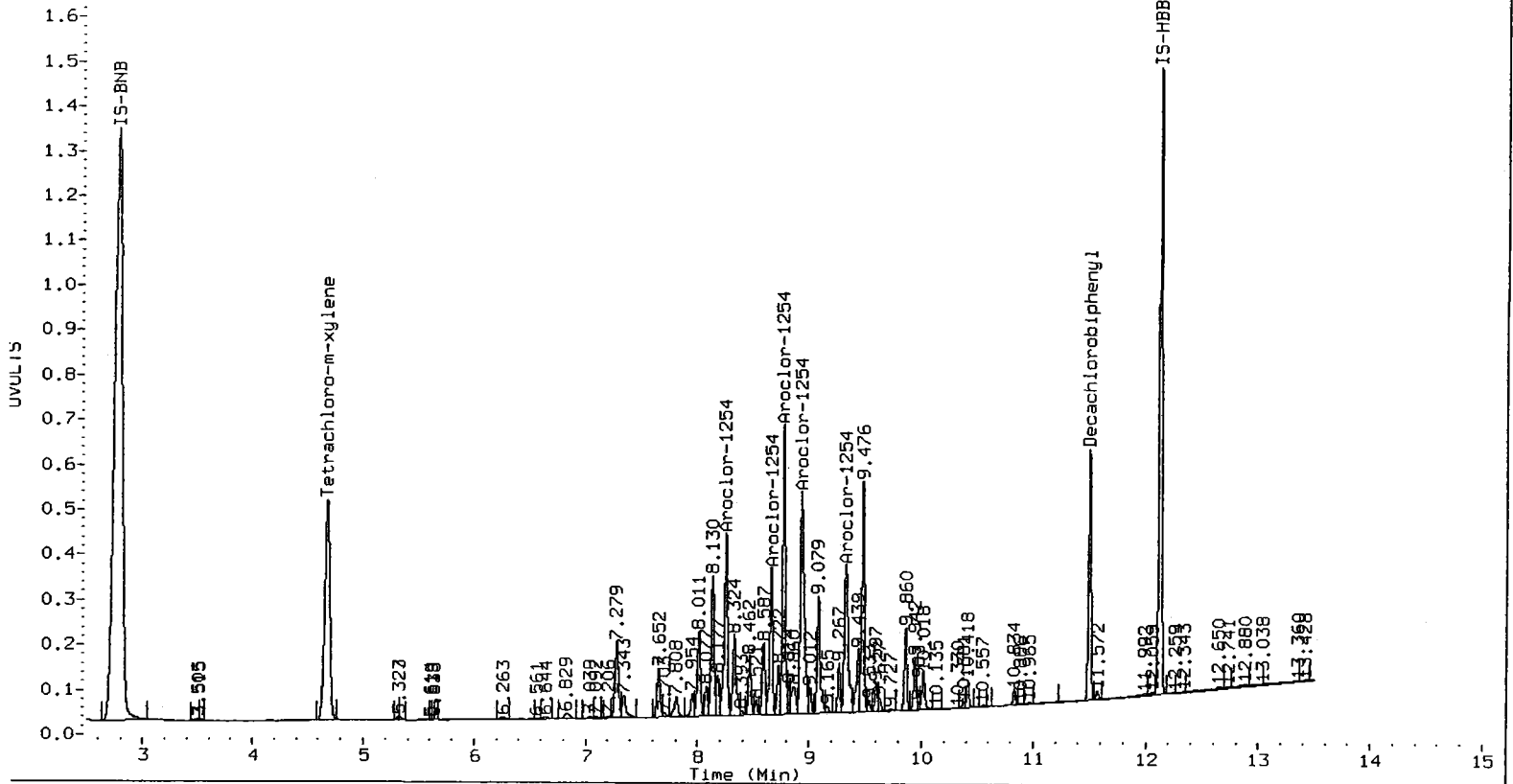
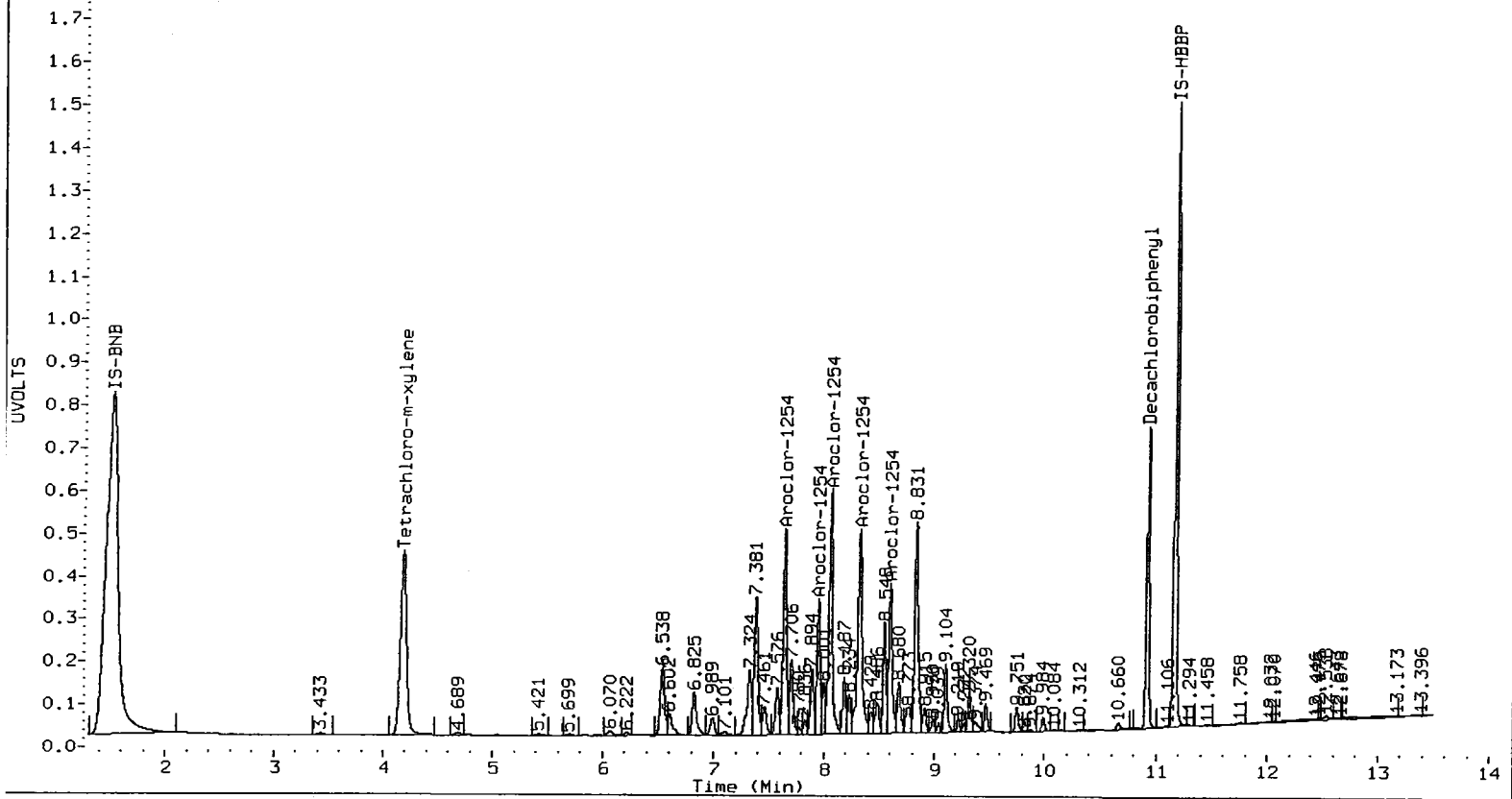
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	7.642	0.000	5348295	250.0	1	8.247	0.000	4052806	250.0
Aroclor-1254	2	7.950	0.000	3417287	250.0	2	8.655	0.000	2823397	250.0
Aroclor-1254	3	8.059	0.000	6481842	250.0	3	8.767	0.000	5561864	250.0
Aroclor-1254	4	8.323	0.000	6795216	250.0	4	8.931	0.000	6245087	250.0
Aroclor-1254	5	8.602	0.000	4031648	250.0	5	9.324	-0.001	3966922	250.0
Total Col1Ave (5 peaks):				250.0		Total Col2Ave (5 peaks):				250.0 RPD = 0
Corrected Ave (4 peaks):				250.0		Corrected Ave (4 peaks):				250.0 RPD = 0

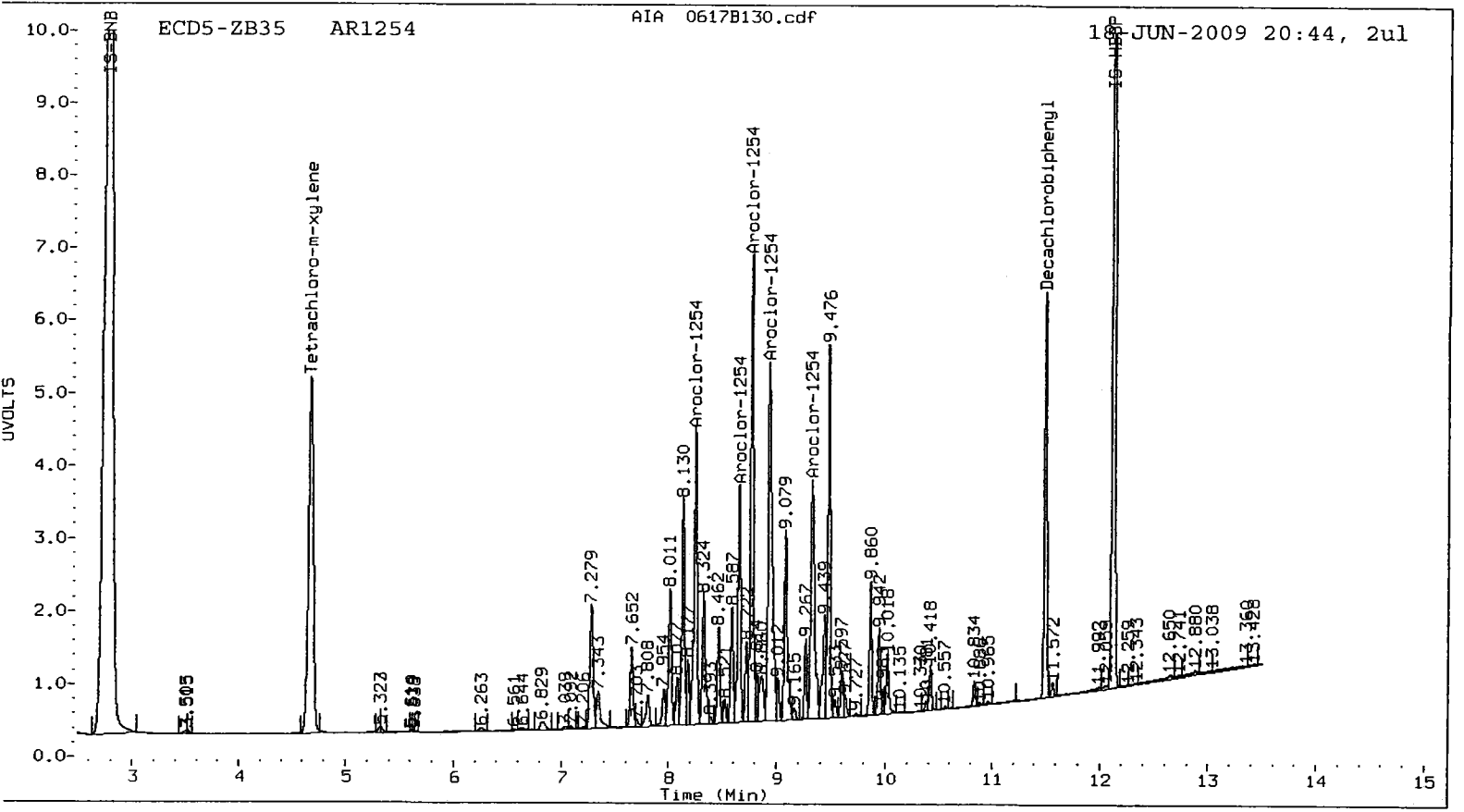
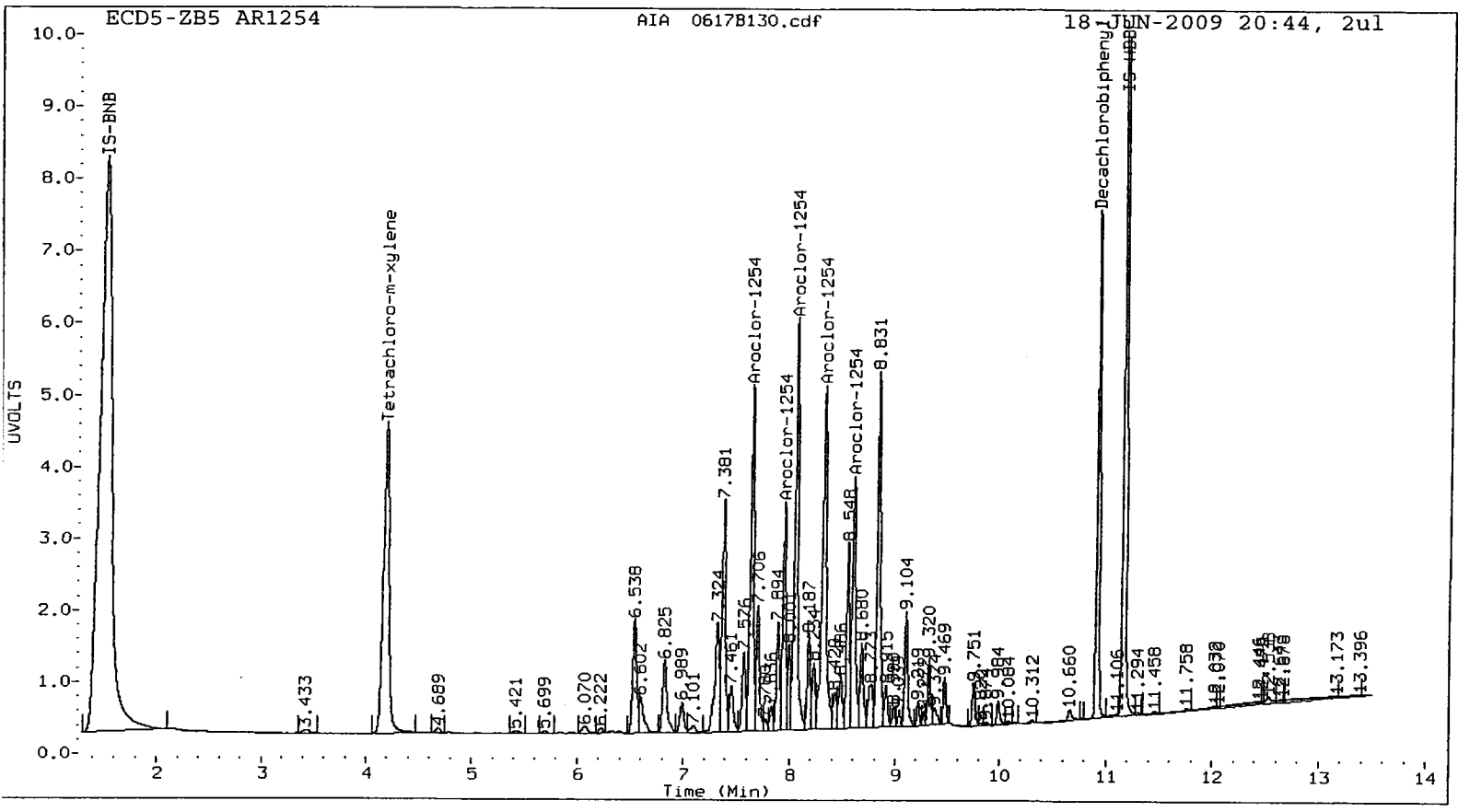
Total PCB Area Col1 (4.291 - 10.817) = 65607791 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 55492474 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B131.d
Data file 2: 20090618.B/ical-2.b/0617B131.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR2162
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162
Client ID:
Injection Date: 18-JUN-2009 21:02
Report Date: 06/19/2009 15:31
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.189	-0.002	8312694	4.679	-0.002	7526726	18.4	18.2	1.2	Tetrachloro-m-xylene
10.914	-0.003	5631772	11.501	-0.002	4239390	21.0	20.2	3.9	Decachlorobiphenyl

* Indicates RPD > 40%

4 Indicates Column 1 peak was manually integrated

√ Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	46.0	45.5
Decachlorobiphenyl	52.5	50.5

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	30251036	-1.8
Hexabromobiphenyl	12091267	12315314	1.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	31356721	0.4
Hexabromobiphenyl	11173293	11365031	1.7

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

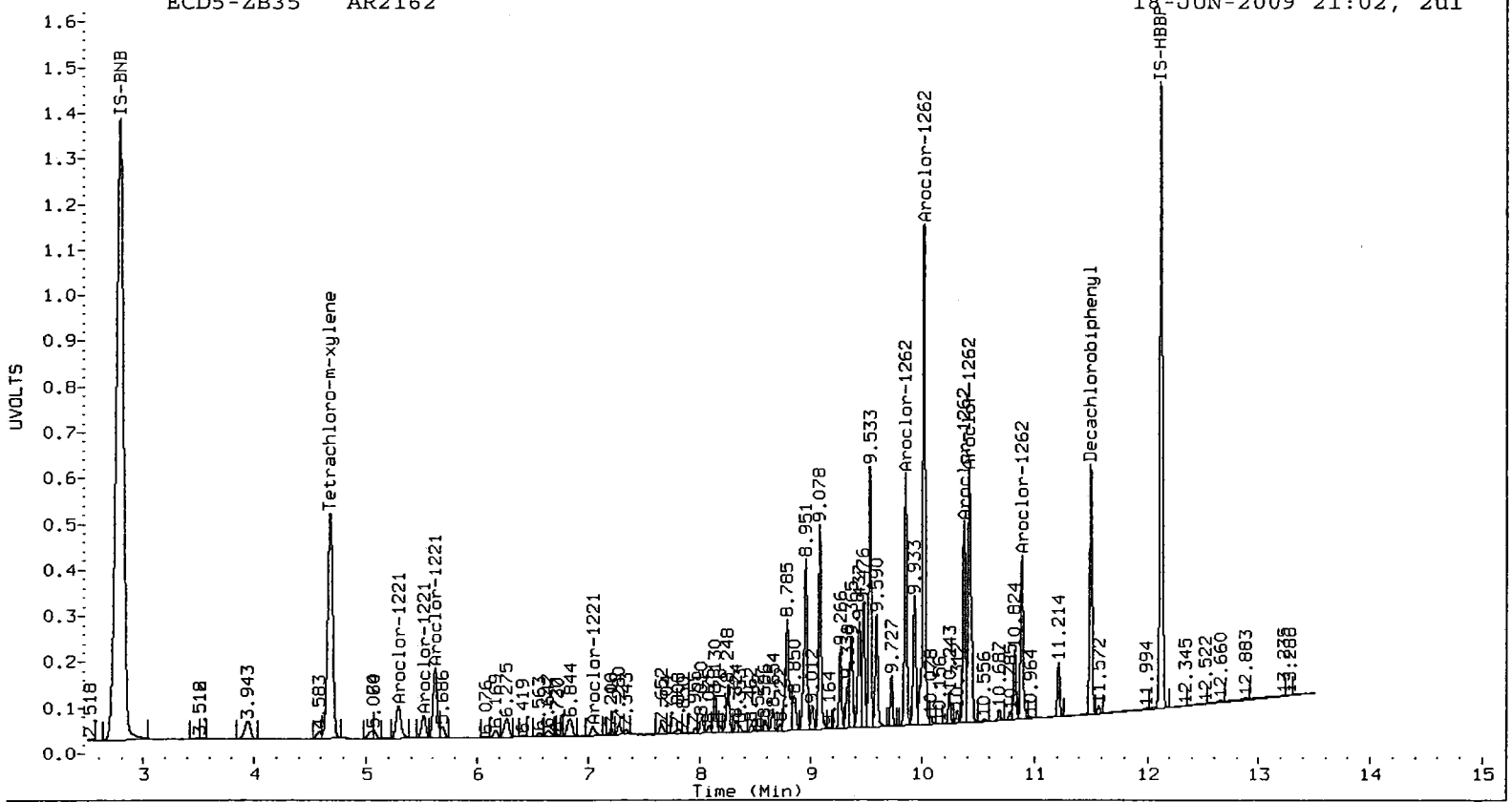
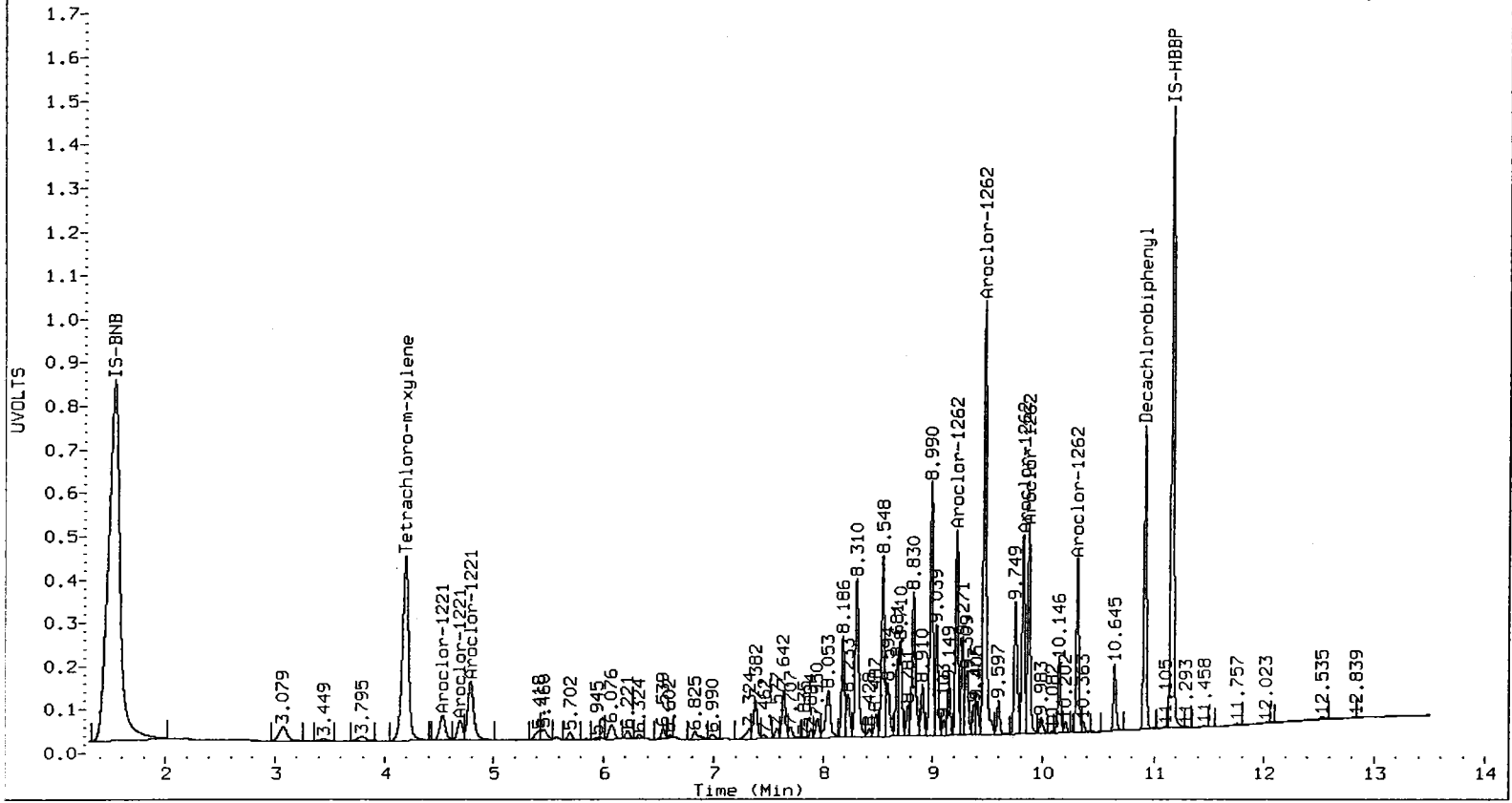
<- Indicates standard response outside Limits (-50 to +100%)

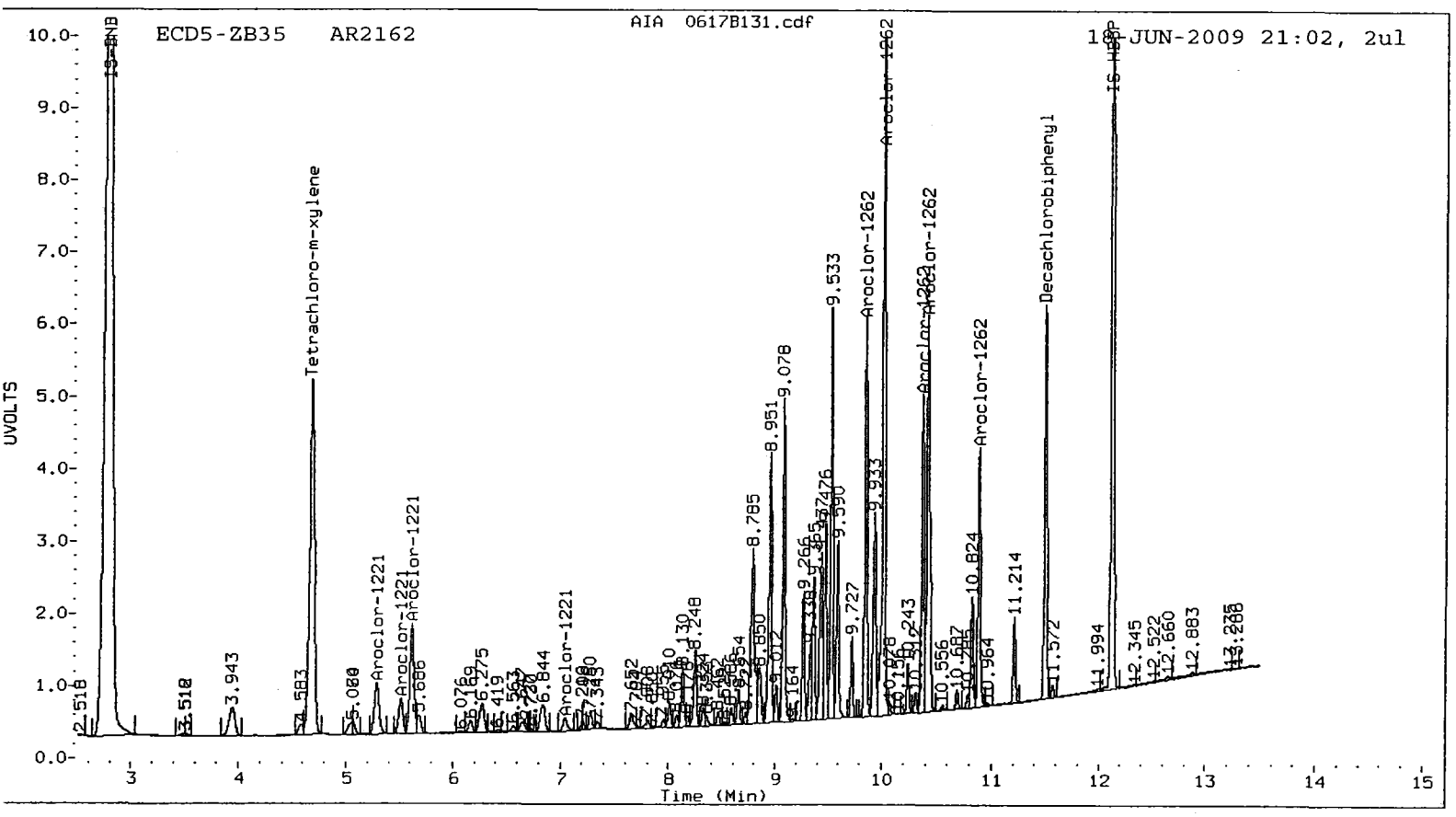
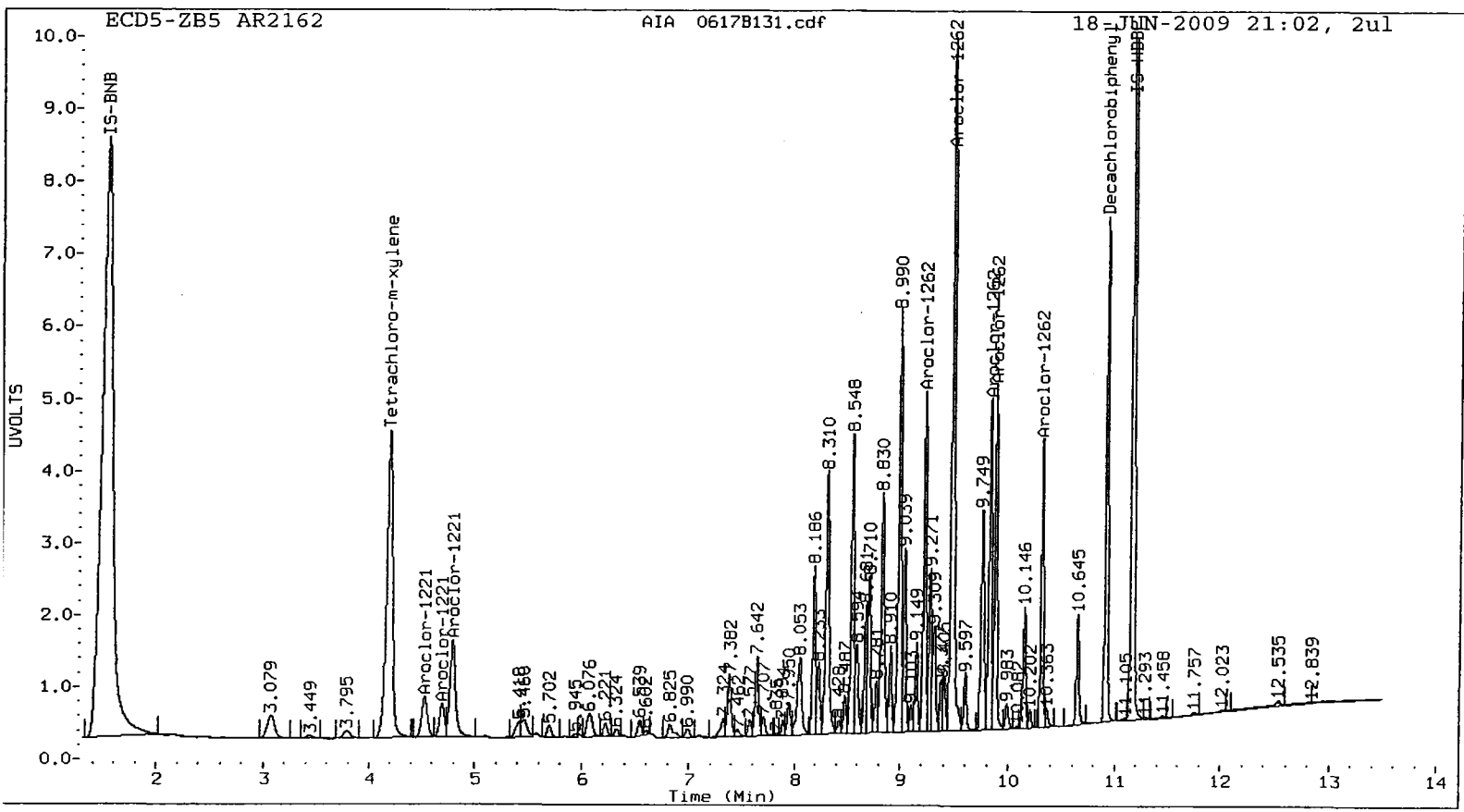
ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1221	1	4.528	0.000	1068328	250.0	1	5.288	0.000	1129084	250.0	
Aroclor-1221	2	4.692	0.000	762231	250.0	2	5.513	0.000	678787	250.0	
Aroclor-1221	3	4.789	0.000	2590602	250.0	3	5.620	0.000	2090125	250.0	
Aroclor-1221	NS	---			---	4	7.045	0.000	267486	250.0	
Total Col1Ave (3 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				250.0		
Aroclor-1262	1	9.218	0.000	4062499	250.0	1	9.853	0.000	4152937	250.0	
Aroclor-1262	2	9.467	0.000	9691433	250.0	2	10.017	0.000	8778392	250.0	
Aroclor-1262	3	9.819	0.000	3967099	250.0	3	10.371	0.000	3463310	250.0	
Aroclor-1262	4	9.871	0.000	4232132	250.0	4	10.418	0.000	5287639	250.0	
Aroclor-1262	5	10.309	0.000	3323235	250.0	5	10.887	0.000	2740065	250.0	
Total Col1Ave (5 peaks):				250.0	Total Col2Ave (5 peaks):				250.0	RPD = 0	
Corrected Ave (4 peaks):				250.0	Corrected Ave (4 peaks):				250.0	RPD = 0	

Total PCB Area Col1 (4.291 - 10.817) = 82042391 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 68910272 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/ical-1.b/0617B132.d
Data file 2: 20090618.B/ical-2.b/0617B132.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR3268
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 18-JUN-2009 21:19
Report Date: 06/19/2009 15:31
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.183	-0.008 8651658	4.676 -0.005 7780620	4.676	-0.005 7780620	18.4	18.4	0.2	Tetrachloro-m-xylene
10.914	-0.003 9902880	11.501 -0.002 7472700	11.501	-0.002 7472700	35.2	34.3	2.7	Decachlorobiphenyl

* Indicates RPD > 40%

¶ Indicates Column 1 peak was manually integrated

¶ Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	46.0	46.0
Decachlorobiphenyl	88.0	85.7

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31543183	2.4
Hexabromobiphenyl	12091267	12926516	6.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	32040883	2.6
Hexabromobiphenyl	11173293	11812369	5.7

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 18-JUN-2009

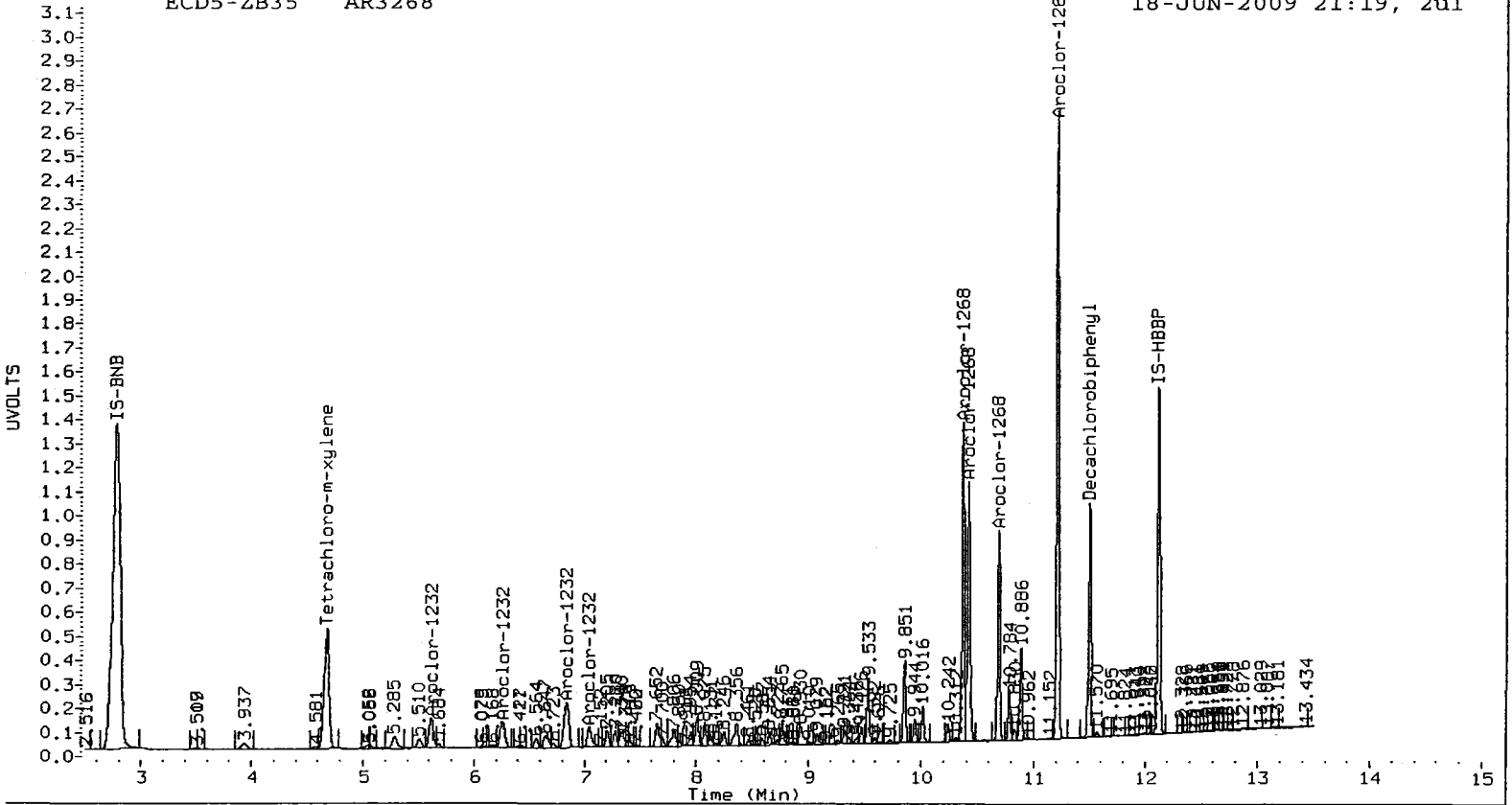
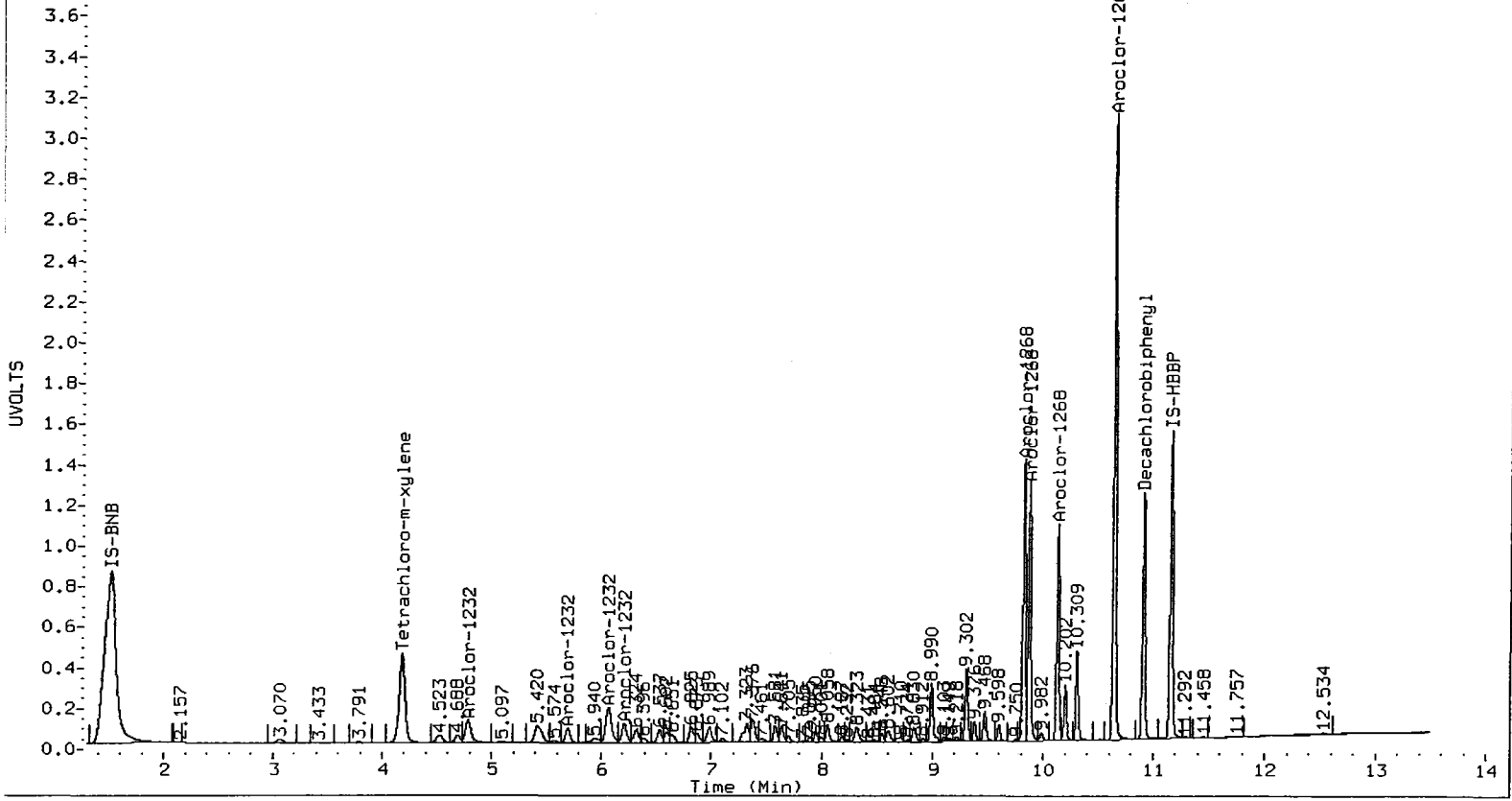
<- Indicates standard response outside Limits (-50 to +100%)

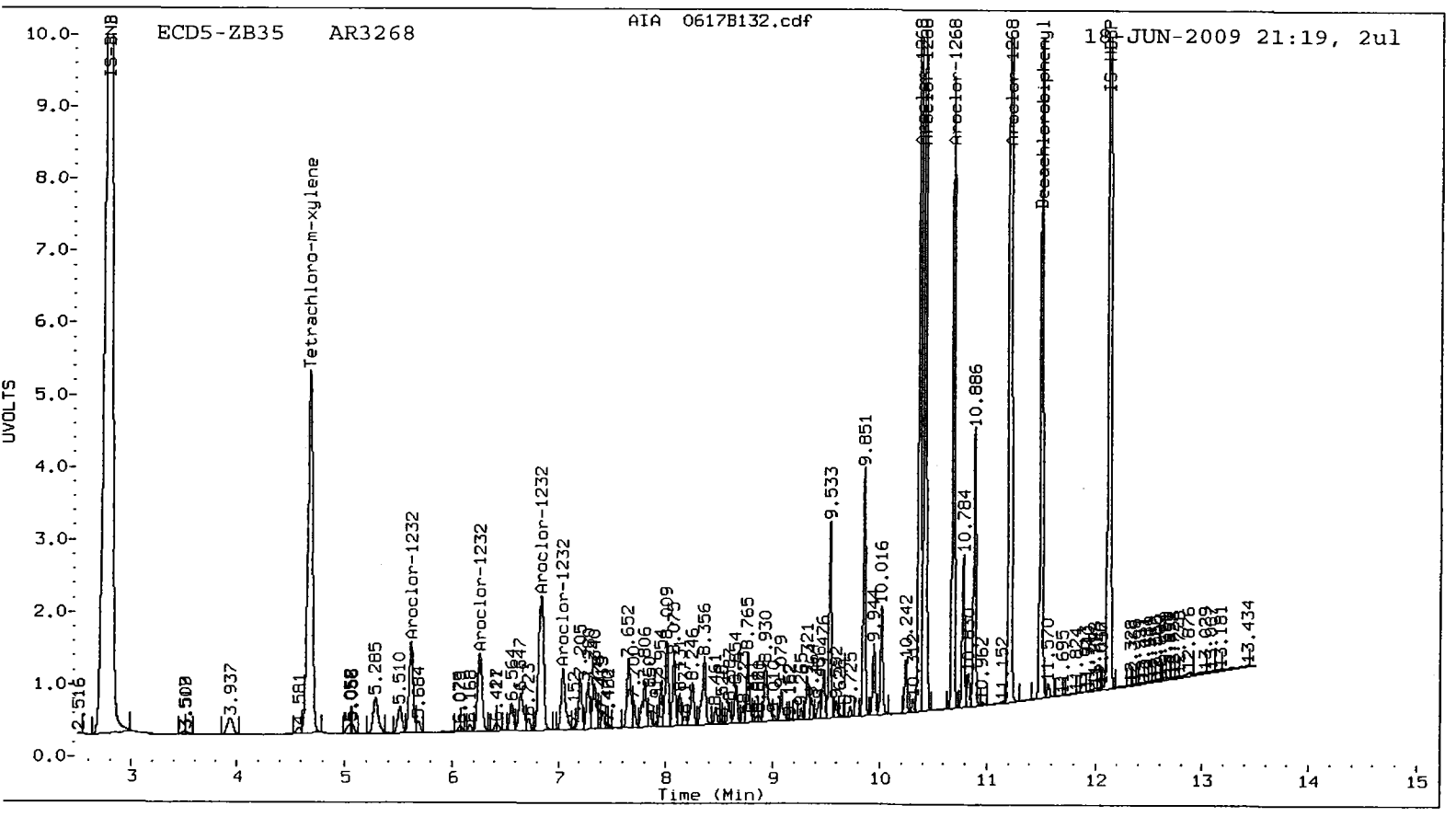
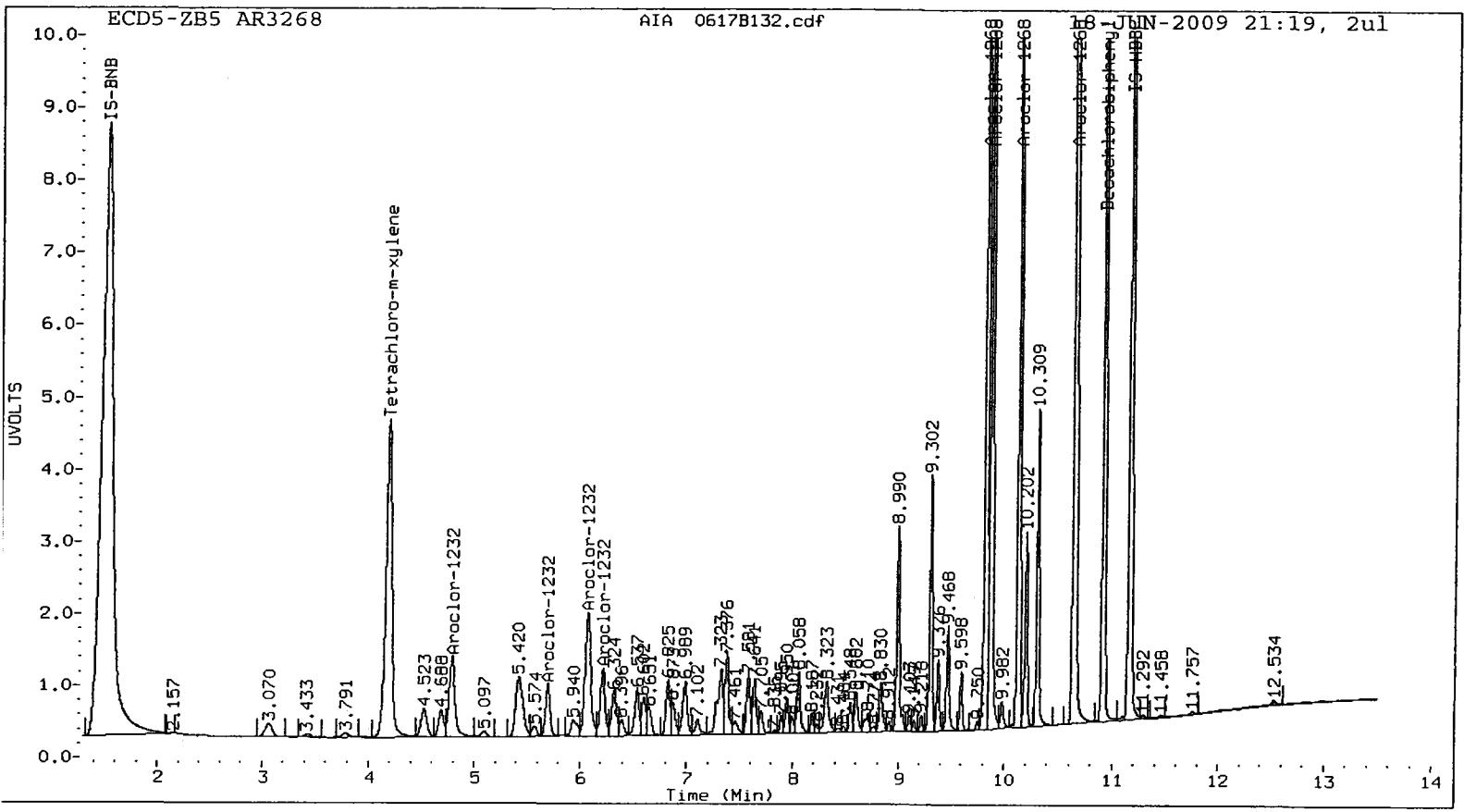
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.785	0.000	2220557	244.0	1	5.618	-0.001	1785393	240.8
Aroclor-1232	2	5.698	0.000	1109283	236.0	2	6.262	0.000	1669182	232.7
Aroclor-1232	3	6.074	0.000	3362535	239.1	3	6.841	0.001	3038838	230.1
Aroclor-1232	4	6.218	0.000	1443568	247.4	4	7.041	-0.002	1237978	241.4
Total Col1Ave (4 peaks):				241.7	Total Col2Ave (4 peaks):				236.3	RPD = 2
Corrected Ave (3 peaks):				239.7	Corrected Ave (3 peaks):				234.5	RPD = 2
Aroclor-1268	1	9.820	0.000	11503249	250.0	1	10.370	0.000	9529138	250.0
Aroclor-1268	2	9.870	0.000	11071935	250.0	2	10.417	0.000	8592072	250.0
Aroclor-1268	3	10.131	0.000	8650117	250.0	3	10.687	0.000	6411454	250.0
Aroclor-1268	4	10.644	0.000	24535326	250.0	4	11.214	0.000	19208089	250.0
Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

Total PCB Area Col1 (4.291 - 10.817) = 102189155 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (4.781 - 11.403) = 83353037 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical





7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 06/18/09

Date Analyzed :07/03/09

Lab Standard ID: AR1248

Time Analyzed :1540

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1248-1	6.11	6.01	6.21	252.6	250.0	1.0
Aroclor-1248-2	6.58	6.47	6.67	238.9	250.0	-4.4
Aroclor-1248-3	6.86	6.76	6.96	247.1	250.0	-1.2
Aroclor-1248-4	7.41	7.31	7.51	240.1	250.0	-4.0

AVERAGE %D = 2.7

FORM VII PCB

PD91 : 00195

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 06/18/09

Date Analyzed :07/03/09

Lab Standard ID: AR1248

Time Analyzed :1540

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1248-1	6.86	6.76	6.96	263.9	250.0	5.6
Aroclor-1248-2	7.30	7.20	7.40	245.7	250.0	-1.7
Aroclor-1248-3	7.67	7.57	7.77	272.6	250.0	9.0
Aroclor-1248-4	8.03	7.93	8.13	260.4	250.0	4.2

AVERAGE %D = 5.1

FORM VII PCB

PD91 : 00136

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B019.d
Data file 2: 20090618.B/0703-2.b/0703B019.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 03-JUL-2009 15:40
Report Date: 07/07/2009 10:00
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.225	0.001	6479816	4.705	-0.002	6975289	16.6	18.2	8.8	Tetrachloro-m-xylene
10.929	0.001	7703102	11.507	0.002	4399496	31.3	21.6	36.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	41.6	45.4
Decachlorobiphenyl	78.2	53.9

JLO 7/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	26114400	-15.2
Hexabromobiphenyl	12091267	11312050	-6.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	29125972	-6.7
Hexabromobiphenyl	11173293	11045293	-1.1

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

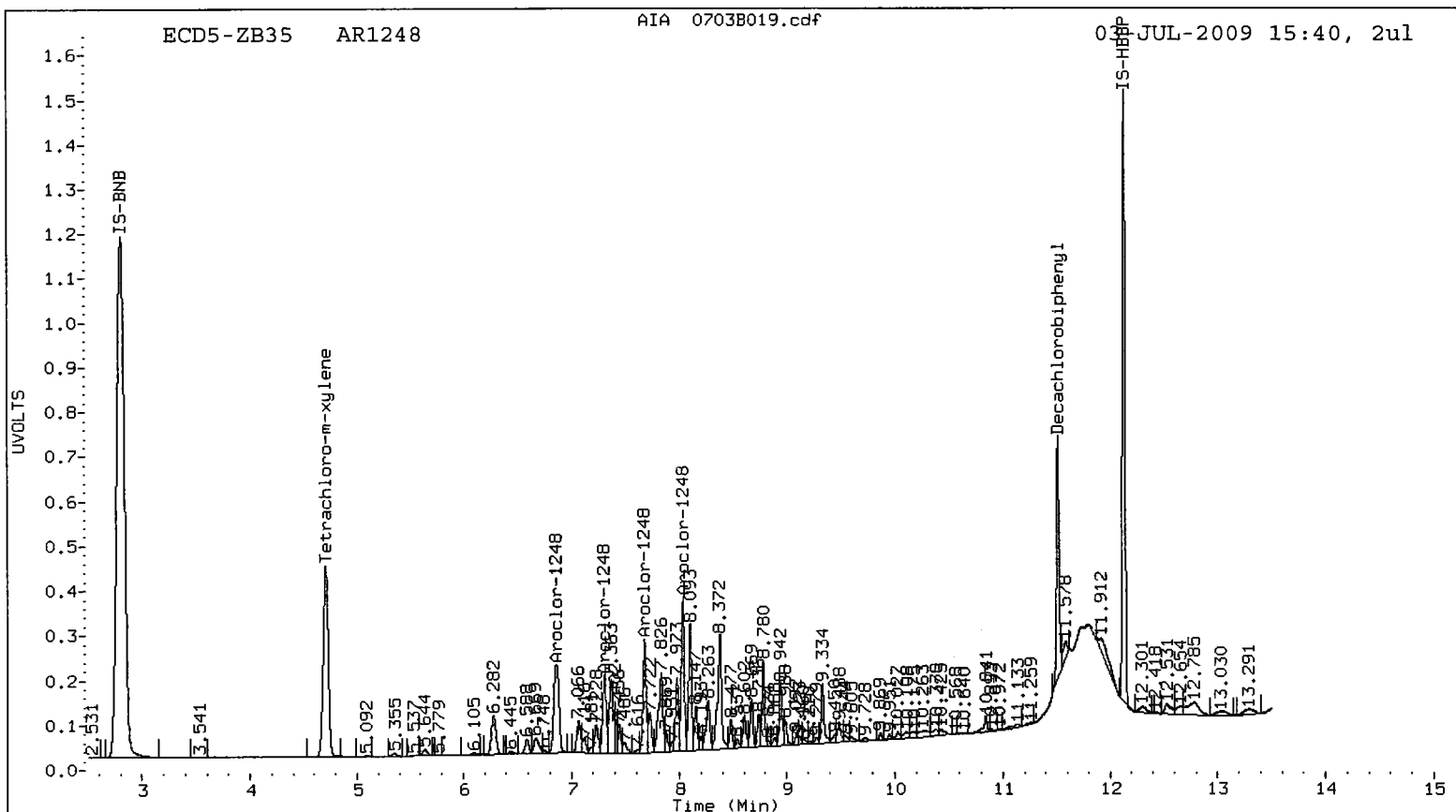
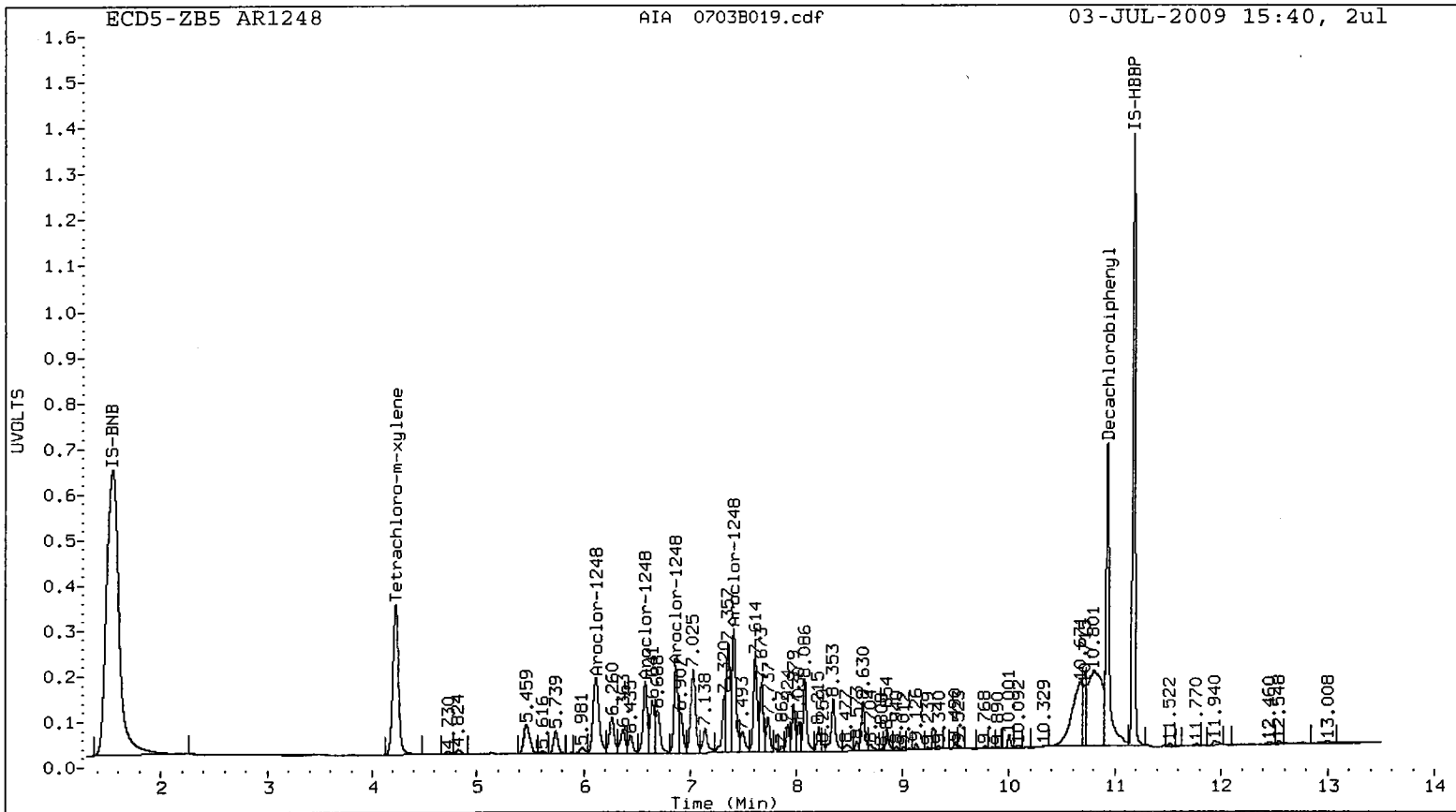
ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1248	1	6.111	0.002	3276437	252.6	1	6.856	0.000	3357588	263.9	
Aroclor-1248	2	6.576	0.002	2144757	238.9	2	7.302	0.002	1944070	245.7	
Aroclor-1248	3	6.861	0.000	2518843	247.1	3	7.672	0.000	2738546	272.6	
Aroclor-1248	4	7.409	0.000	3636969	240.1	4	8.027	0.000	3392362	260.4	
Total Col1Ave (4 peaks):				244.7	Total Col2Ave (4 peaks):				260.7	RPD = 6	
Corrected Ave (3 peaks):				242.1	Corrected Ave (3 peaks):				256.7	RPD = 6	

Total PCB Area Col1 (4.324 - 10.827) = 58835149 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (4.806 - 11.404) = 46763072 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical



7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 06/18/09

Date Analyzed :07/03/09

Lab Standard ID: AR1660

Time Analyzed :1557

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1016-1	5.74	5.64	5.84	236.3	250.0	-5.5
Aroclor-1016-2	6.11	6.01	6.21	230.9	250.0	-7.6
Aroclor-1016-3	6.26	6.15	6.35	233.1	250.0	-6.8
Aroclor-1016-4	6.36	6.26	6.46	232.2	250.0	-7.1

AVERAGE %D = 6.8

Date Analyzed :07/03/09

Lab Standard ID: AR1660

Time Analyzed :1557

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1260-1	9.01	8.91	9.11	251.8	250.0	0.7
Aroclor-1260-2	9.24	9.14	9.34	246.8	250.0	-1.3
Aroclor-1260-3	9.49	9.39	9.59	232.2	250.0	-7.1
Aroclor-1260-4	9.77	9.67	9.87	227.7	250.0	-8.9
Aroclor-1260-5	9.89	9.79	9.99	233.3	250.0	-6.7

AVERAGE %D = 4.9

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB35

Instrument: ECD5

Init. Calib. Date: 06/18/09

Date Analyzed :07/03/09

Lab Standard ID: AR1660

Time Analyzed :1557

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1016-1	6.28	6.18	6.38	232.4	250.0	-7.0
Aroclor-1016-2	6.86	6.76	6.96	233.7	250.0	-6.5
Aroclor-1016-3	7.07	6.96	7.16	241.7	250.0	-3.3
Aroclor-1016-4	7.23	7.13	7.33	245.7	250.0	-1.7

AVERAGE %D = 4.6

Date Analyzed :07/03/09

Lab Standard ID: AR1660

Time Analyzed :1557

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1260-1	9.54	9.44	9.64	273.6	250.0	9.4
Aroclor-1260-2	10.03	9.92	10.12	249.9	250.0	-0.0
Aroclor-1260-3	10.38	10.28	10.48	277.9	250.0	11.2
Aroclor-1260-4	10.43	10.32	10.52	255.5	250.0	2.2

AVERAGE %D = 5.7

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B020.d
Data file 2: 20090618.B/0703-2.b/0703B020.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 03-JUL-2009 15:57
Report Date: 07/07/2009 10:00
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.227	0.003	5492330	16.3	17.3	6.0	Tetrachloro-m-xylene
10.929	0.002	4284298	19.2	24.8	25.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	40.7	43.2
Decachlorobiphenyl	48.0	61.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	30797009	22609218	-26.6
Hexabromobiphenyl	12091267	10252624	-15.2

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31223103	25853169	-17.2
Hexabromobiphenyl	11173293	9276275	-17.0

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

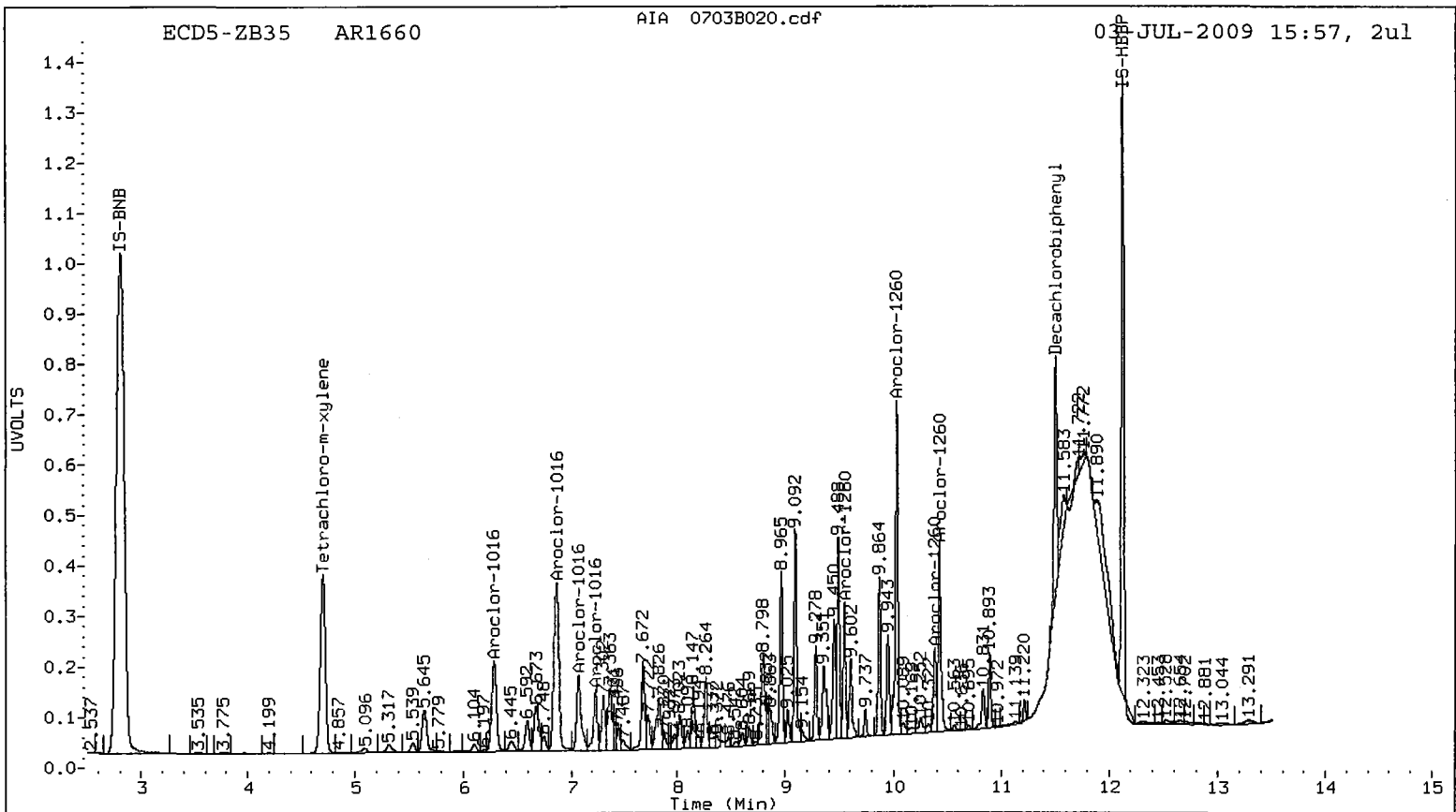
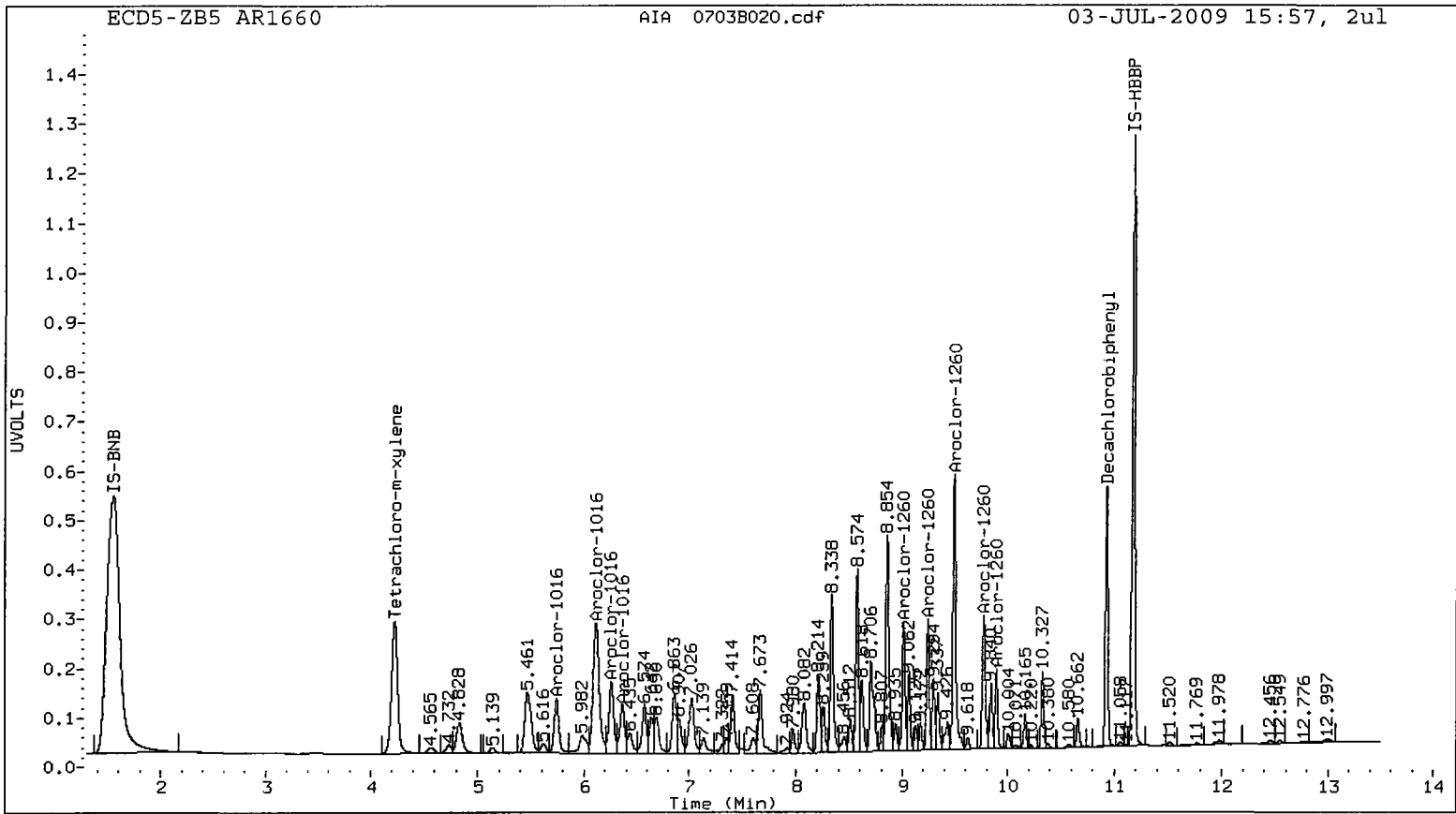
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.739	0.003	1762681	236.3	1	6.285	0.003	2746099	232.4	
Aroclor-1016	2	6.114	0.004	5384189	230.9	2	6.864	0.000	5606855	233.7	
Aroclor-1016	3	6.258	0.003	2301810	233.1	3	7.067	0.003	2286385	241.7	
Aroclor-1016	4	6.363	0.002	1592370	232.2	4	7.228	0.001	1485115	245.7	
Total Col1Ave (4 peaks):				233.1	Total Col2Ave (4 peaks):				238.4	RPD = 2	
Corrected Ave (3 peaks):				232.0	Corrected Ave (3 peaks):				235.9	RPD = 2	

Aroclor-1260	1	9.013	0.002	2413729	251.8	1	9.545	0.002	2117074	273.6	
Aroclor-1260	2	9.240	0.002	2265352	246.8	2	10.026	0.001	5564417	249.9	
Aroclor-1260	3	9.488	0.003	5367723	232.2	3	10.381	0.002	1485576	277.9	
Aroclor-1260	4	9.768	0.002	2692299	227.7	4	10.425	0.001	3393759	255.5	
Aroclor-1260	5	9.890	0.002	1414421	233.3	NS	---			----	
Total Col1Ave (5 peaks):				238.4	Total Col2Ave (4 peaks):				264.2	RPD = 10	
Corrected Ave (4 peaks):				235.0	Corrected Ave (3 peaks):				259.7	RPD = 10	

Total PCB Area Col1 (4.324 - 10.827) = 77259345 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (4.806 - 11.404) = 74276457 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 06/18/09

Date Analyzed :07/03/09

Lab Standard ID: AR1242

Time Analyzed :1906

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1242-1	5.74	5.64	5.84	250.0	250.0	-0.0
Aroclor-1242-2	6.11	6.01	6.21	251.0	250.0	0.4
Aroclor-1242-3	6.26	6.16	6.36	250.8	250.0	0.3
Aroclor-1242-4	7.36	7.26	7.46	241.6	250.0	-3.4

AVERAGE %D = 1.0

FORM VII PCB

PD91 : 00205

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 06/18/09

Date Analyzed :07/03/09

Lab Standard ID: AR1242

Time Analyzed :1906

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1242-1	6.28	6.18	6.38	262.2	250.0	4.9
Aroclor-1242-2	6.86	6.76	6.96	263.5	250.0	5.4
Aroclor-1242-3	7.07	6.96	7.16	269.3	250.0	7.7
Aroclor-1242-4	7.97	7.87	8.07	274.6	250.0	9.8

AVERAGE %D = 7.0

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B031.d
Data file 2: 20090618.B/0703-2.b/0703B031.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 03-JUL-2009 19:06
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.223	0.000	6627588	4.706	-0.001	6897340	16.9	17.9	5.5	Tetrachloro-m-xylene
10.930	0.002	5212442	11.507	0.002	4239502	19.6	19.3	1.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	42.3	44.7
Decachlorobiphenyl	49.1	48.2

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	26257008	-14.7
Hexabromobiphenyl	12091267	12200661	0.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	29259292	-6.3
Hexabromobiphenyl	11173293	11925492	6.7

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1242	1	5.738	0.002	1630990	250.0	1	6.284	0.001	2573032	262.2	
Aroclor-1242	2	6.114	0.005	5034122	251.0	2	6.864	0.001	5161529	263.5	
Aroclor-1242	3	6.257	0.001	2132215	250.8	3	7.066	0.003	2105504	269.3	
Aroclor-1242	4	7.358	0.002	1671257	241.6	4	7.973	0.003	1028486	274.6	
Total Col1Ave (4 peaks):				248.3	Total Col2Ave (4 peaks):				267.4	RPD = 7	
Corrected Ave (3 peaks):				247.5	Corrected Ave (3 peaks):				265.0	RPD = 7	

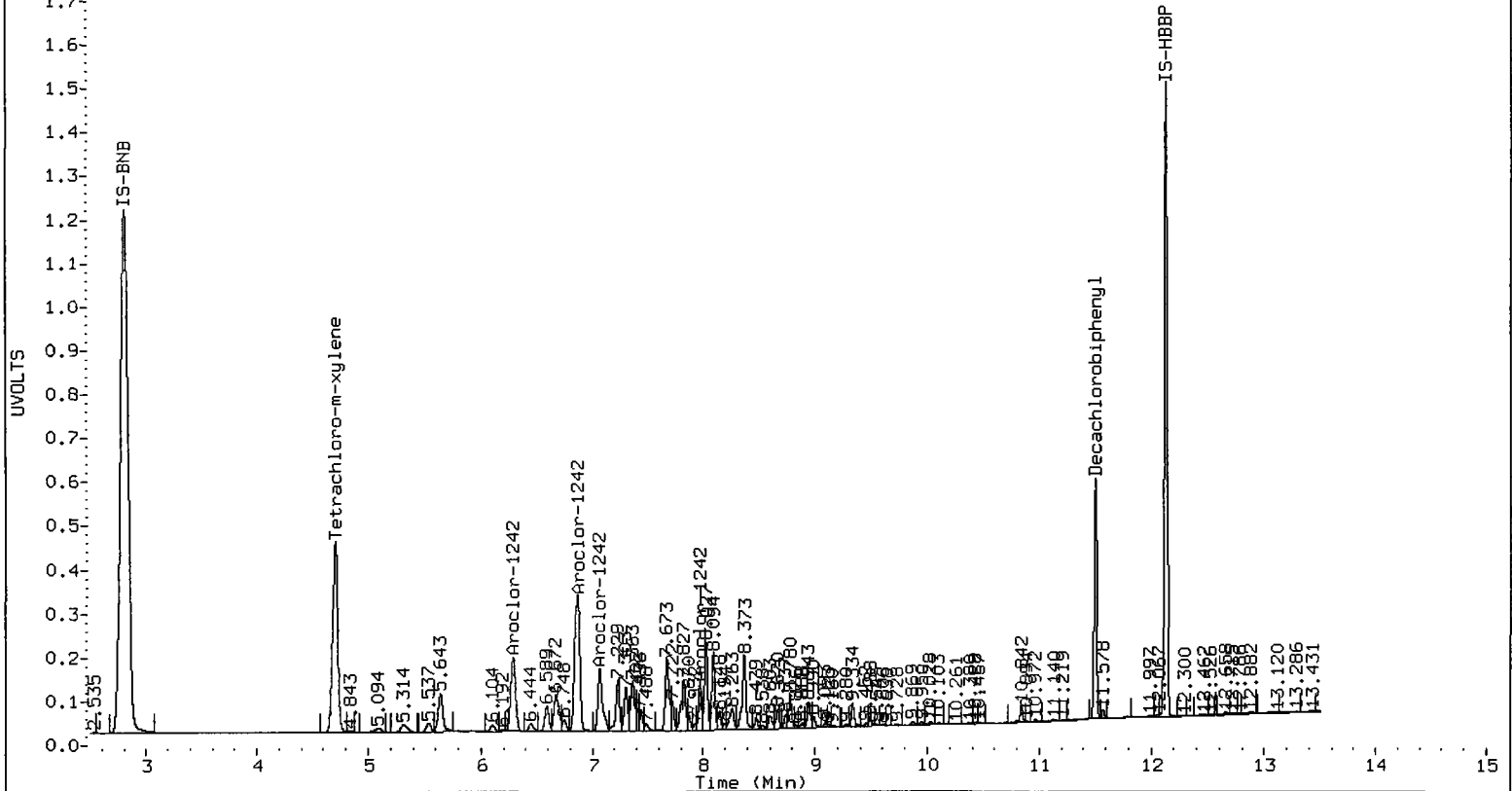
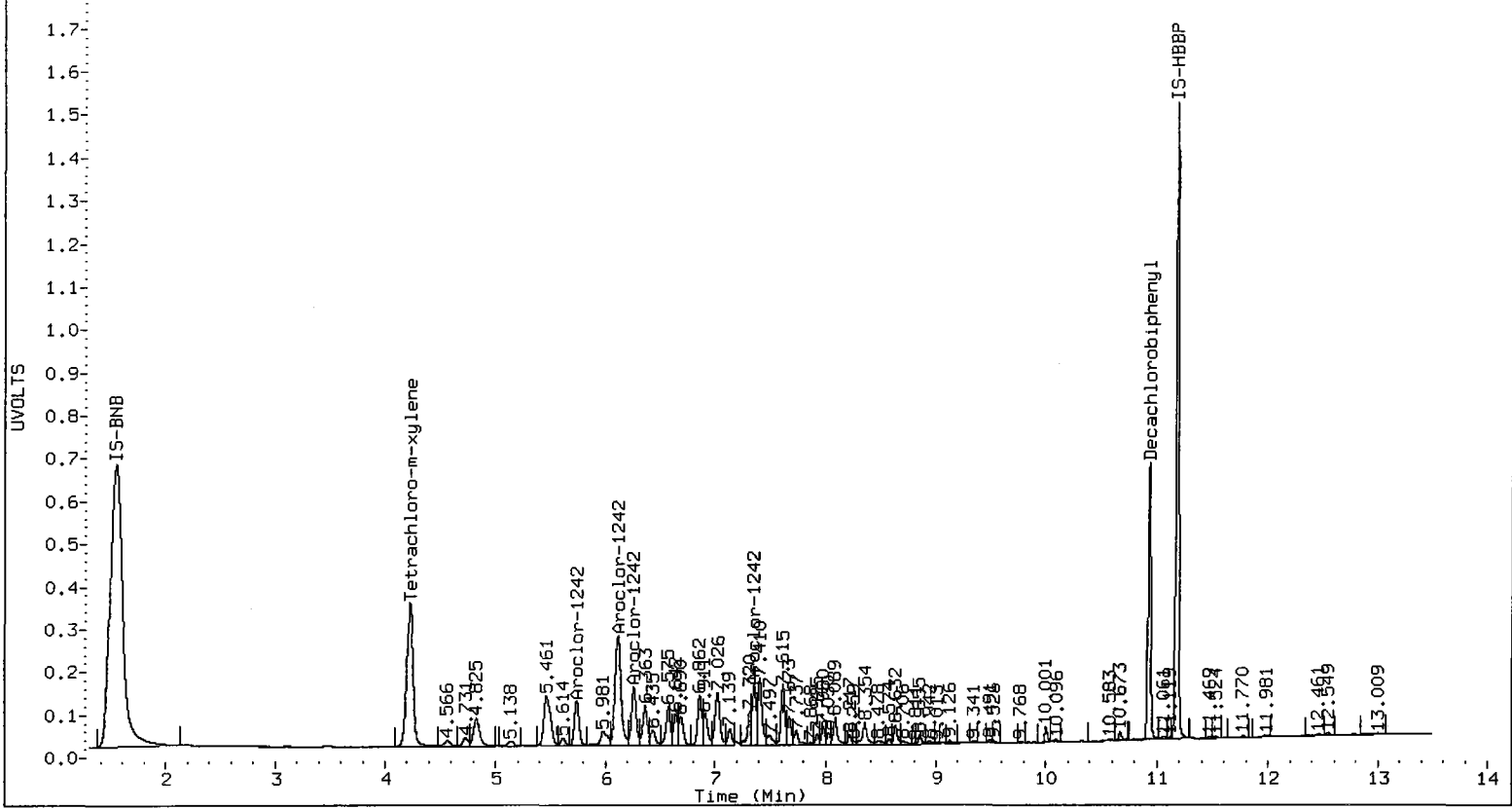
Total PCB Area Col1 (4.324 - 10.827) = 38695580

Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.806 - 11.404) = 37663433

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical



7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 06/18/09

Date Analyzed :07/03/09

Lab Standard ID: AR1660

Time Analyzed :1923

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1016-1	5.74	5.64	5.84	234.8	250.0	-6.1
Aroclor-1016-2	6.11	6.01	6.21	229.7	250.0	-8.1
Aroclor-1016-3	6.26	6.15	6.35	232.8	250.0	-6.9
Aroclor-1016-4	6.36	6.26	6.46	231.4	250.0	-7.4

AVERAGE %D = 7.1

Date Analyzed :07/03/09

Lab Standard ID: AR1660

Time Analyzed :1923

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1260-1	9.01	8.91	9.11	245.3	250.0	-1.9
Aroclor-1260-2	9.24	9.14	9.34	241.3	250.0	-3.5
Aroclor-1260-3	9.49	9.39	9.59	216.5	250.0	-13.4
Aroclor-1260-4	9.77	9.67	9.87	224.9	250.0	-10.0
Aroclor-1260-5	9.89	9.79	9.99	230.3	250.0	-7.9

AVERAGE %D = 7.3

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: AMEC GEOMATRIX

ARI Job No.: PD91

Project: FORMER CUSTOM PLYWOOD

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 06/18/09

Date Analyzed :07/03/09

Lab Standard ID: AR1660

Time Analyzed :1923

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1016-1	6.28	6.18	6.38	231.6	250.0	-7.4
Aroclor-1016-2	6.86	6.76	6.96	235.1	250.0	-6.0
Aroclor-1016-3	7.07	6.96	7.16	246.3	250.0	-1.5
Aroclor-1016-4	7.23	7.13	7.33	251.3	250.0	0.5

AVERAGE %D = 3.8

Date Analyzed :07/03/09

Lab Standard ID: AR1660

Time Analyzed :1923

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1260-1	9.54	9.44	9.64	235.5	250.0	-5.8
Aroclor-1260-2	10.03	9.92	10.12	226.4	250.0	-9.4
Aroclor-1260-3	10.38	10.28	10.48	229.1	250.0	-8.3
Aroclor-1260-4	10.43	10.32	10.52	220.3	250.0	-11.9

AVERAGE %D = 8.8

FORM VII PCB

PD91 : 00211

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B032.d
Data file 2: 20090618.B/0703-2.b/0703B032.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 03-JUL-2009 19:23
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.227	0.003	5493842	4.706	-0.001	5878598	16.2	17.4	7.2	Tetrachloro-m-xylene
10.930	0.003	4567622	11.507	0.002	3702856	19.1	18.8	1.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	40.5	43.6
Decachlorobiphenyl	47.6	46.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	22708771	-26.3
Hexabromobiphenyl	12091267	11017090	-8.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	25577020	-18.1
Hexabromobiphenyl	11173293	10695366	-4.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

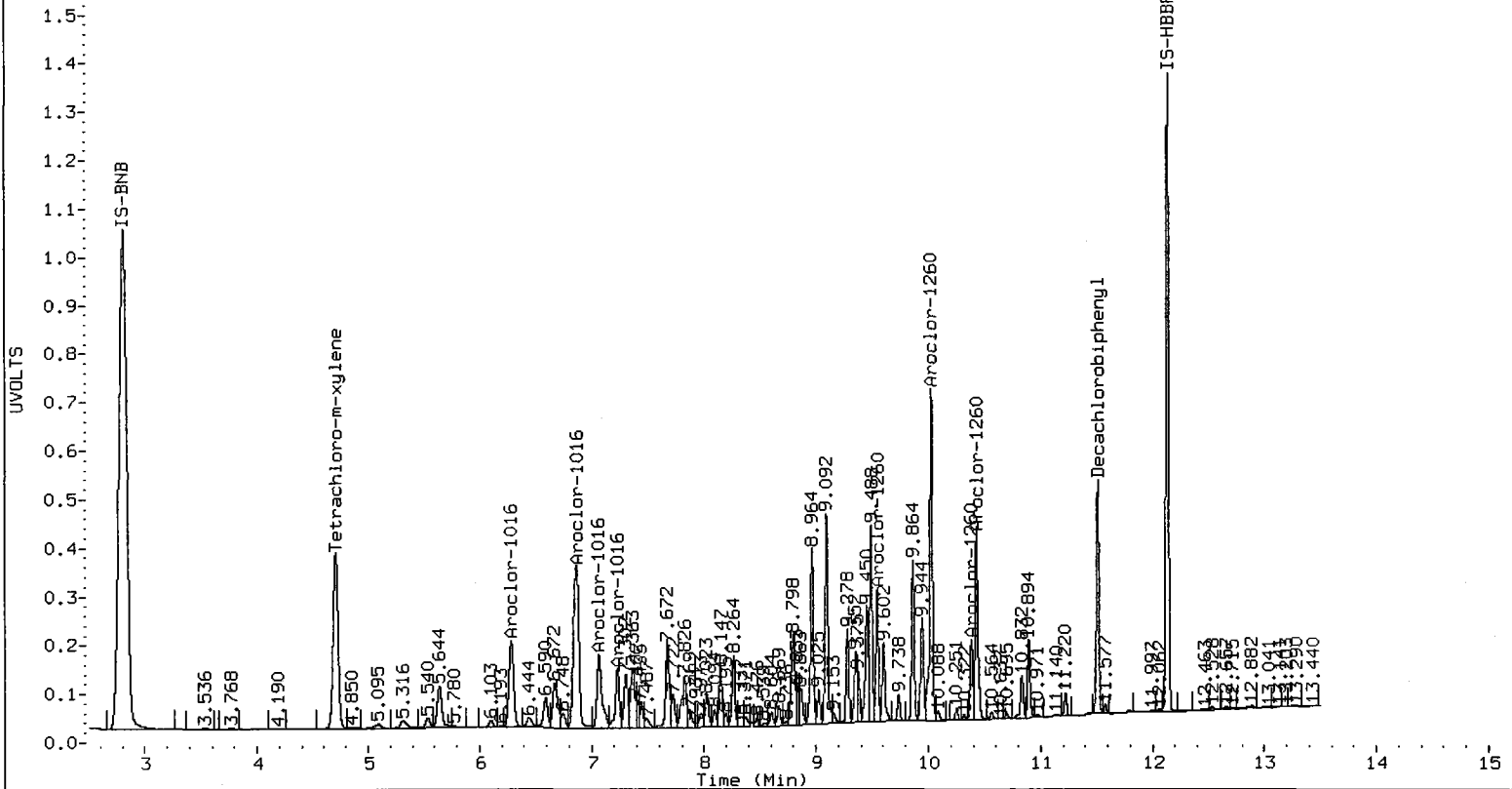
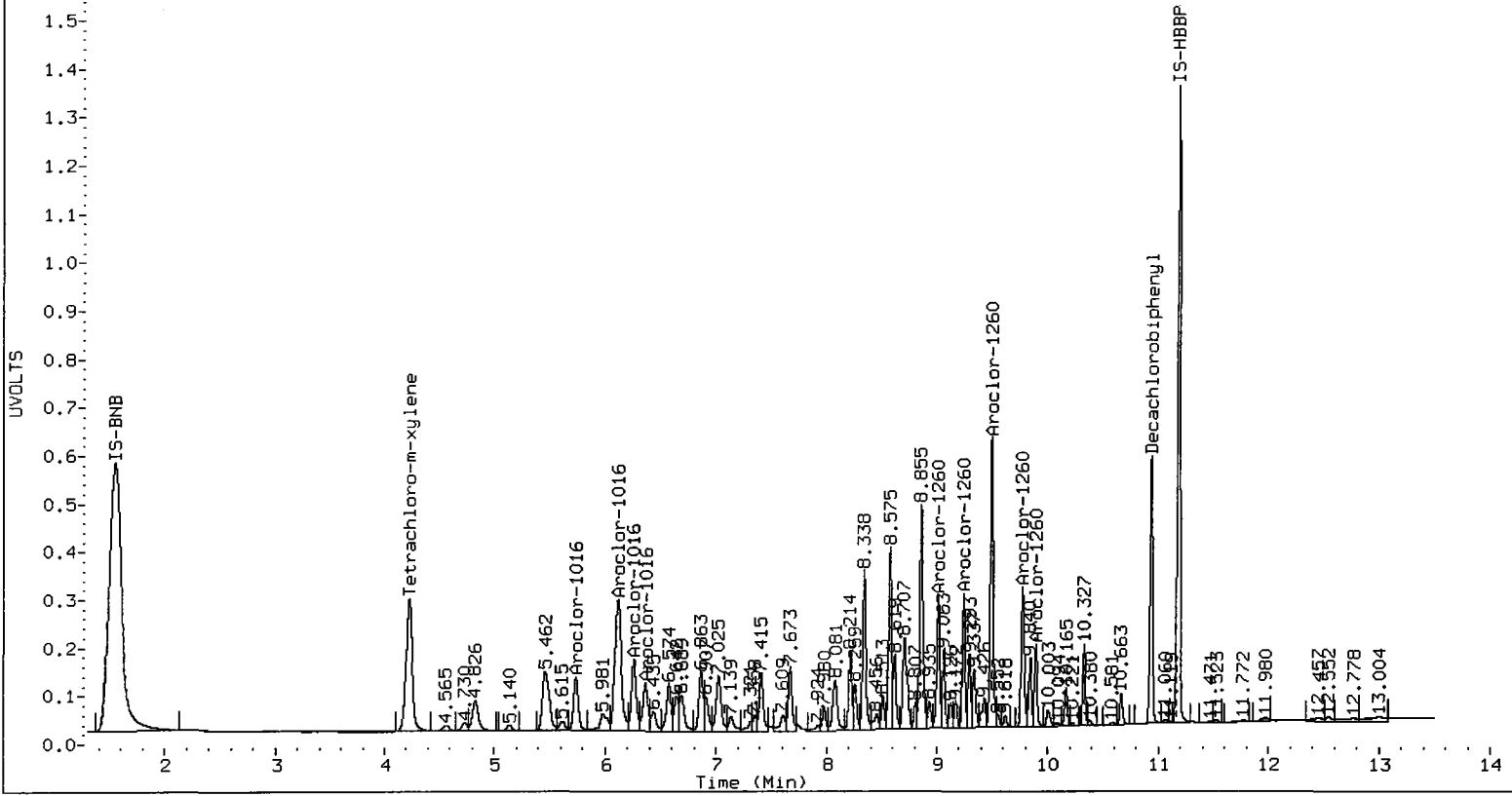
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.739	0.003	1759673	234.8	1	6.285	0.003	2707376	231.6	
Aroclor-1016	2	6.113	0.004	5380225	229.7	2	6.864	0.000	5578901	235.1	
Aroclor-1016	3	6.257	0.002	2309673	232.8	3	7.066	0.002	2305914	246.3	
Aroclor-1016	4	6.364	0.002	1594114	231.4	4	7.228	0.001	1502924	251.3	
Total CollAve (4 peaks):				232.2		Total Col2Ave (4 peaks):				241.1	RPD = 4
Corrected Ave (3 peaks):				231.3		Corrected Ave (3 peaks):				237.7	RPD = 3

Aroclor-1260	1	9.013	0.002	2526711	245.3	1	9.544	0.002	2100995	235.5	
Aroclor-1260	2	9.240	0.002	2380193	241.3	2	10.026	0.001	5813478	226.4	
Aroclor-1260	3	9.488	0.002	5379063	216.5	3	10.382	0.002	1412463	229.1	
Aroclor-1260	4	9.769	0.003	2858022	224.9	4	10.426	0.002	3374202	220.3	
Aroclor-1260	5	9.890	0.003	1500784	230.3	NS	---			----	
Total CollAve (5 peaks):				231.7		Total Col2Ave (4 peaks):				227.9	RPD = 2
Corrected Ave (4 peaks):				228.3		Corrected Ave (3 peaks):				225.3	RPD = 1

Total PCB Area Col1 (4.324 - 10.827) = 79307709 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.806 - 11.404) = 74869766 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



PCB Analysis
QC Raw Data

prepared
for

AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT, 10654.000

ARI JOB NO: PD91

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: MB-070109

METHOD BLANK

Lab Sample ID: MB-070109

LIMS ID: 09-14456

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT

10654.000

Date Sampled: NA

Date Received: NA

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 16:14

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.0 g

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	Aroclor 1254	4.0	< 4.0 U
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.5%
Tetrachlorometaxylene	69.8%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B021.d
Data file 2: 20090618.B/0703-2.b/0703B021.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91MBS1
Client ID: PD91MBS1
Injection Date: 03-JUL-2009 16:14
Report Date: 07/07/2009 10:00
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.226	0.002	13101102	4.705	-0.001	13585821	27.5	27.9	1.5	Tetrachloro-m-xylene
10.929	0.002	10346788	11.507	0.002	8859361	31.9	32.6	2.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	68.7	69.7
Decachlorobiphenyl	79.9	81.5

07/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31938131	3.7
Hexabromobiphenyl	12091267	14883194	23.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	36930912	18.3
Hexabromobiphenyl	11173293	14722818	31.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	5.355	0.067	221509	41.6
Aroclor-1221	2	---			0.0	2	5.586	0.072	61838	19.3
Aroclor-1221	3	---			0.0	3	5.592	-0.028	42995	4.4
Aroclor-1221	NS	---			----	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: 21.8				
Aroclor-1232	1	4.730	-0.060	194197	21.1	1	5.592	-0.011	42995	5.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	6.911	0.076	148349	9.7
Aroclor-1232	4	6.323	0.088	53510	9.1	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	6.911	0.048	148349	6.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	8.024	0.053	21483	4.5
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	6.911	0.056	148349	9.2
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	7.673	0.001	10830	0.9
Aroclor-1248	4	---			0.0	4	8.024	-0.002	21483	1.3
CollAve: <3 Quant Peaks						Col2Ave: 3.8				
Aroclor-1254	1	---			0.0	1	8.312	0.049	246728	13.1
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	8.781	0.002	16362	0.6
Aroclor-1254	4	---			0.0	4	8.964	0.023	18867	0.7
Aroclor-1254	5	---			0.0	5	9.276	-0.060	70031	3.8
CollAve: <3 Quant Peaks						Col2Ave: 4.6				
Aroclor-1260	1	---			0.0	1	9.543	0.000	60445	4.9
Aroclor-1260	2	---			0.0	2	10.025	0.001	66067	1.9
Aroclor-1260	3	---			0.0	3	10.375	-0.004	283579	33.4
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
CollAve: <3 Quant Peaks						Col2Ave: 13.4				
Aroclor-1262	1	---			0.0	1	9.866	0.013	18687	0.9
Aroclor-1262	2	---			0.0	2	10.025	0.008	66067	1.5
Aroclor-1262	3	---			0.0	3	10.375	0.004	283579	15.8
Aroclor-1262	4	---			0.0	4	---			0.0
Aroclor-1262	5	---			0.0	5	10.841	-0.046	315311	22.2
CollAve: <3 Quant Peaks						Col2Ave: 10.1				
Aroclor-1268	1	---			0.0	1	10.375	0.063	283579	6.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	11.126	-0.034	42402	0.4
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

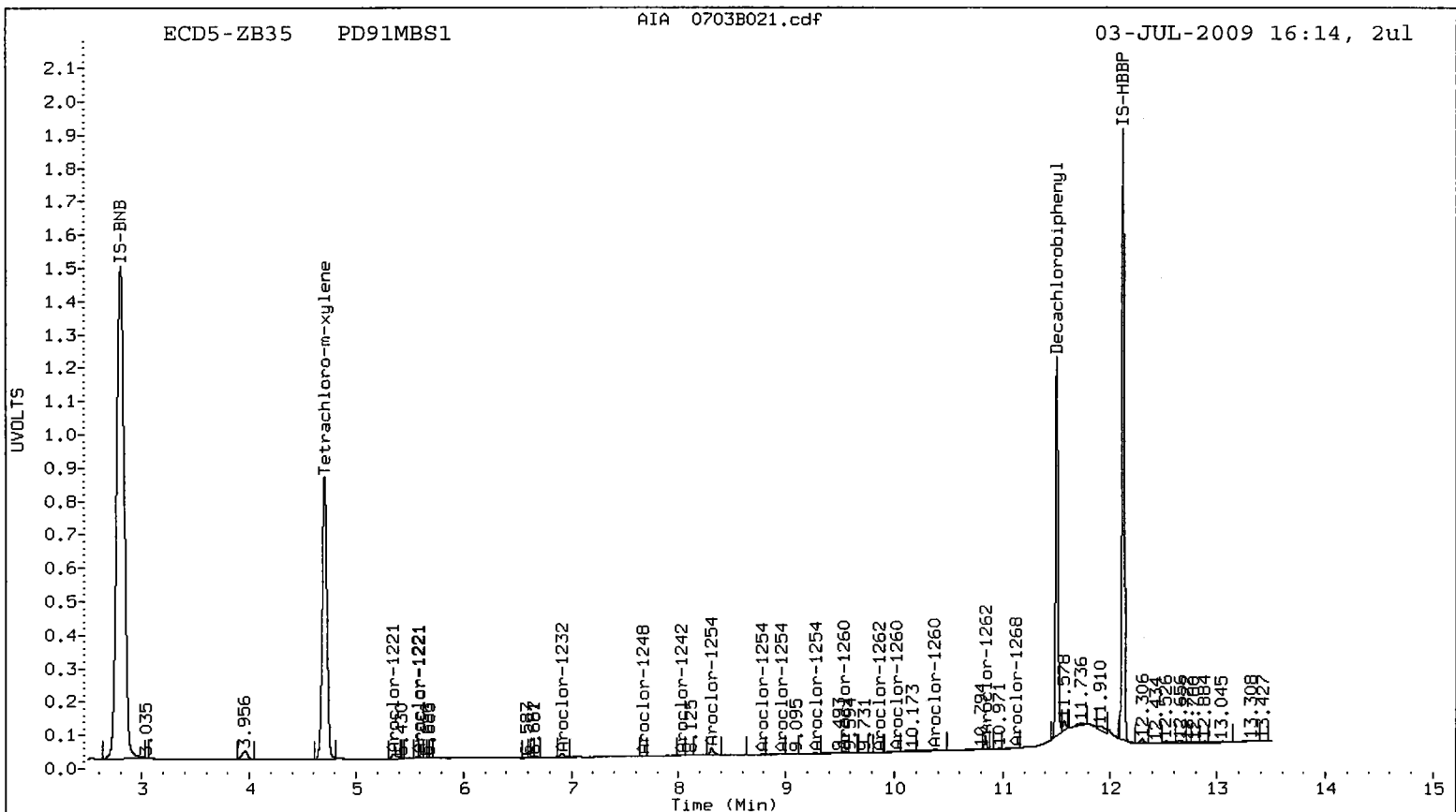
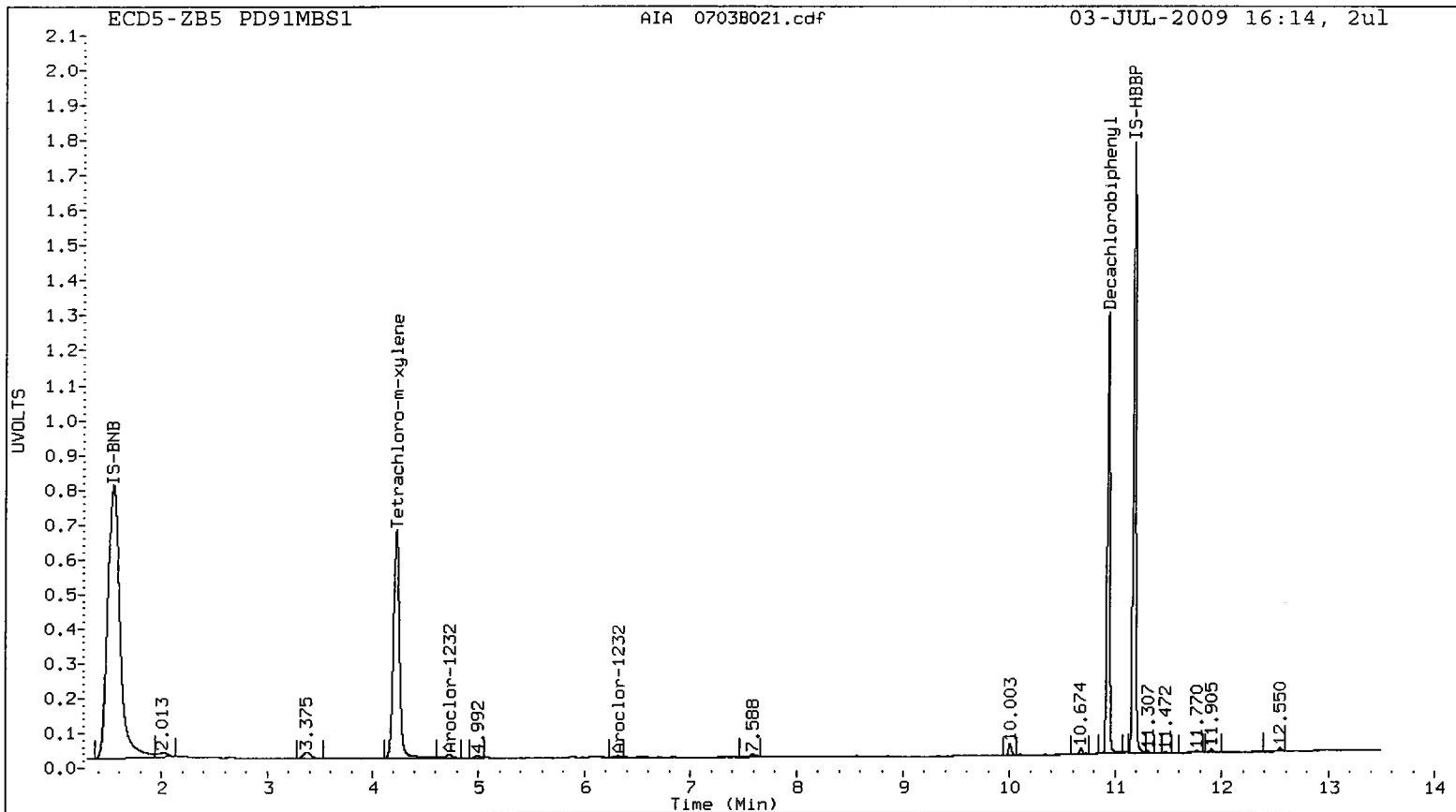
Total PCB Area Coll (4.324 - 10.827) = 919960

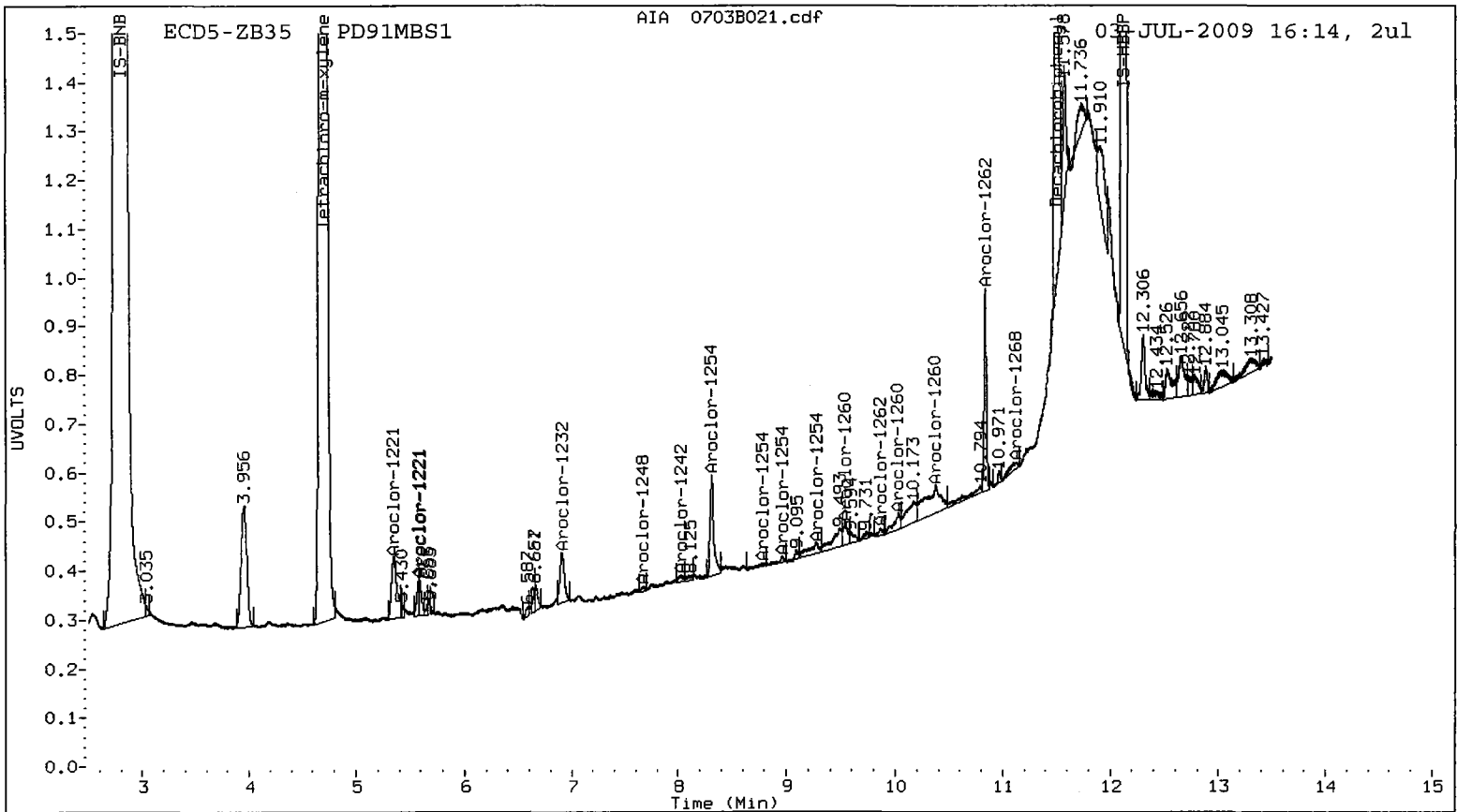
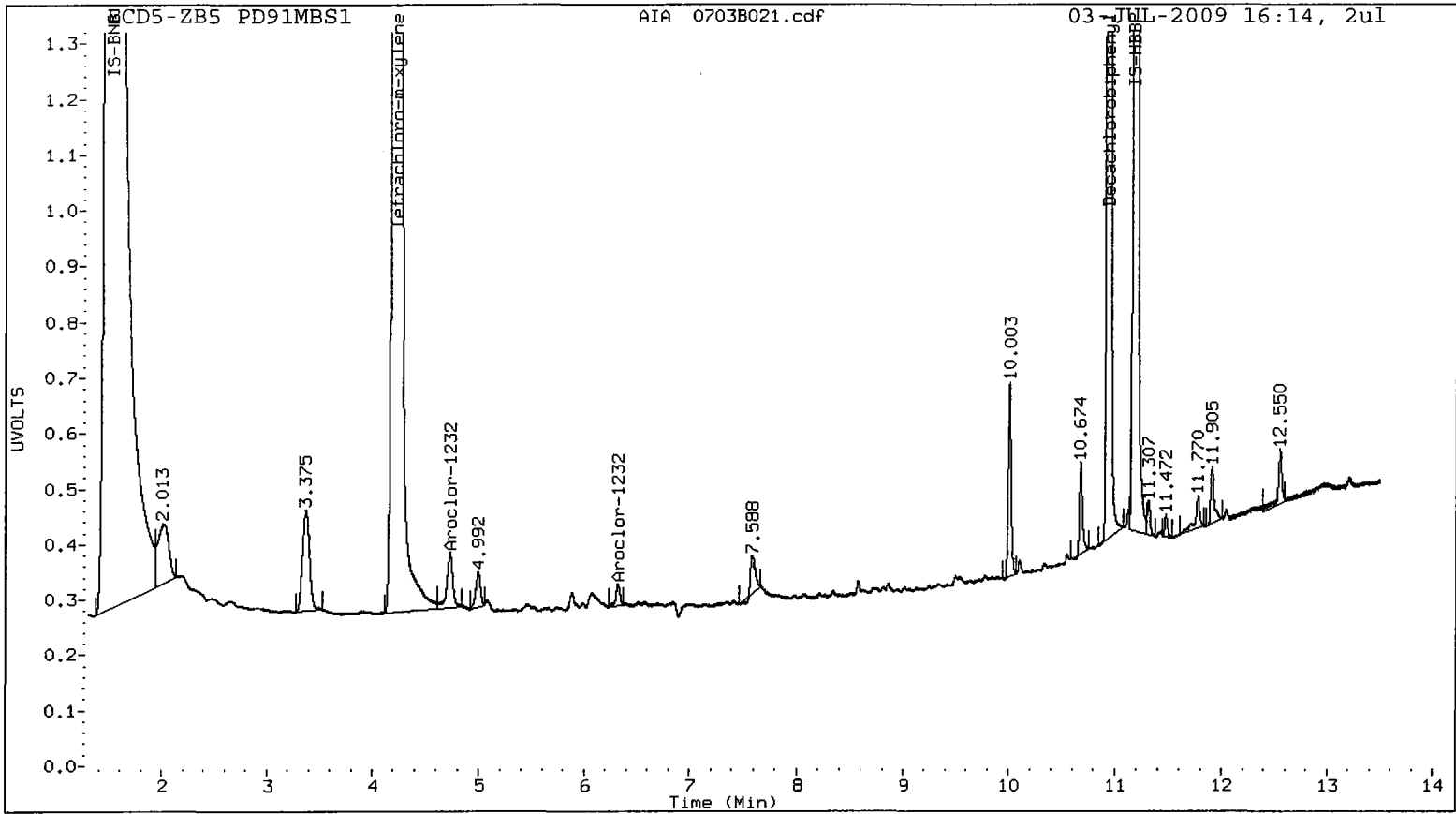
Coll Total PCB = 0.0 ppm*

Total PCB Area Col2 (4.806 - 11.404) = 2200803

Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical





ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP1
MATRIX SPIKE**

Lab Sample ID: PD91A

LIMS ID: 09-14456

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000

Date Sampled: 06/22/09

Date Received: 06/22/09

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 17:23

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: No

Percent Moisture: 28.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	---
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	---
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.8%
Tetrachlorometaxylene	79.5%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B025.d
Data file 2: 20090618.B/0703-2.b/0703B025.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91AMS
Client ID: COMPOSITE GROUP MS
Injection Date: 03-JUL-2009 17:23
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 5.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.225	0.001	2901979	4.705	-0.001	2904407	6.1	6.4	4.4	Tetrachloro-m-xylene
10.929	0.002	2451080	11.506	0.002	1795584	7.7	6.5	16.2	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	76.1	79.5
Decachlorobiphenyl	95.7	81.4

07/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31936018	3.7
Hexabromobiphenyl	12091267	14705862	21.6

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	34613154	10.9
Hexabromobiphenyl	11173293	14939682	33.7

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.737	0.000	762781	72.4	1	6.287	0.005	1897098	119.9	
Aroclor-1016	2	6.112	0.002	2366916	71.9	2	6.864	-0.001	2630715	81.9	
Aroclor-1016	3	6.256	0.001	955997	68.5	3	7.065	0.001	1067641	84.3	
Aroclor-1016	4	6.361	0.000	727224	75.1	4	7.229	0.001	691666	85.5	
Total CollAve (4 peaks):				72.0		Total Col2Ave (4 peaks):				92.9	RPD = 25
Corrected Ave (3 peaks):				70.9		Corrected Ave (3 peaks):				83.9	RPD = 17
Aroclor-1221	1	4.562	0.034	147194	32.6	1	5.313	0.025	102615	20.6	
Aroclor-1221	2	4.729	0.037	161183	50.1	2	5.534	0.020	31061	10.4	
Aroclor-1221	3	4.824	0.035	690750	63.1	3	5.640	0.020	522193	56.6	
Aroclor-1221	NS	---	---	---	---	4	7.065	0.020	1067641	904.0	
Total CollAve (3 peaks):				48.6		Total Col2Ave (4 peaks):				247.9	RPD = 134*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				29.2	
Aroclor-1232	1	4.824	0.034	690750	75.0	1	5.640	0.037	522193	65.2	
Aroclor-1232	2	5.737	0.025	762781	160.3	2	6.287	0.036	1897098	244.8	
Aroclor-1232	3	6.112	0.021	2366916	166.2	3	6.864	0.028	2630715	184.4	
Aroclor-1232	4	6.256	0.020	955997	161.8	4	7.065	0.027	1067641	192.7	
Total CollAve (4 peaks):				140.8		Total Col2Ave (4 peaks):				171.8	RPD = 20
Corrected Ave (3 peaks):				132.4		Corrected Ave (3 peaks):				147.4	RPD = 11
Aroclor-1242	1	5.737	0.001	762781	96.1	1	6.287	0.004	1897098	163.4	
Aroclor-1242	2	6.112	0.003	2366916	97.0	2	6.864	0.001	2630715	113.5	
Aroclor-1242	3	6.256	0.000	955997	92.5	3	7.065	0.002	1067641	115.4	
Aroclor-1242	4	7.353	-0.003	286254	34.0	4	7.973	0.002	138207	31.2	
Total CollAve (4 peaks):				79.9		Total Col2Ave (4 peaks):				105.9	RPD = 28
Corrected Ave (3 peaks):				74.2		Corrected Ave (3 peaks):				86.7	RPD = 16
Aroclor-1248	1	6.112	0.002	2366916	149.2	1	6.864	0.009	2630715	174.0	
Aroclor-1248	2	6.570	-0.004	1329179	121.1	2	7.299	-0.002	617606	65.7	
Aroclor-1248	3	6.861	0.000	769238	61.7	3	7.670	-0.001	928128	77.7	
Aroclor-1248	4	7.414	0.005	619572	33.4	4	8.023	-0.004	342179	22.1	
Total CollAve (4 peaks):				91.4		Total Col2Ave (4 peaks):				84.9	RPD = 7
Corrected Ave (3 peaks):				72.1		Corrected Ave (3 peaks):				55.2	RPD = 27
Aroclor-1254	1	7.672	0.001	703749	31.9	1	8.264	0.002	681832	38.8	
Aroclor-1254	2	7.981	0.003	208035	14.8	2	8.669	0.001	196438	16.0	
Aroclor-1254	3	8.080	-0.005	819801	30.7	3	8.799	0.020	1096712	45.4	
Aroclor-1254	4	8.337	-0.012	1734941	61.9	4	8.965	0.023	1646529	60.7	
Aroclor-1254	5	8.619	-0.007	688983	41.4	5	9.352	0.016	597746	34.7	
Total CollAve (5 peaks):				36.1		Total Col2Ave (5 peaks):				39.1	RPD = 8
Corrected Ave (4 peaks):				29.7		Corrected Ave (4 peaks):				33.7	RPD = 13
Aroclor-1260	1	9.013	0.002	1315691	95.7	1	9.545	0.002	1014356	81.4	
Aroclor-1260	2	9.240	0.001	1187709	90.2	2	10.026	0.001	2877878	80.2	
Aroclor-1260	3	9.487	0.002	2894290	87.3	3	10.381	0.001	792049	92.0	
Aroclor-1260	4	9.767	0.001	1551173	91.5	4	10.426	0.002	1810891	84.7	
Aroclor-1260	5	9.889	0.002	820589	94.3	NS	---	---	---	---	
Total CollAve (5 peaks):				91.8		Total Col2Ave (4 peaks):				84.6	RPD = 8
Corrected Ave (4 peaks):				90.8		Corrected Ave (3 peaks):				82.1	RPD = 10
Aroclor-1262	1	9.240	0.022	1187709	61.2	1	9.864	0.011	1289493	59.1	
Aroclor-1262	2	9.487	0.020	2894290	62.5	2	10.026	0.009	2877878	62.3	
Aroclor-1262	3	9.839	0.019	633109	33.4	3	10.381	0.010	792049	43.5	
Aroclor-1262	4	9.889	0.019	820589	40.6	4	10.426	0.008	1810891	65.1	
Aroclor-1262	5	10.325	0.016	1197832	75.5	5	10.894	0.007	718141	49.8	
Total CollAve (5 peaks):				54.6		Total Col2Ave (5 peaks):				56.0	RPD = 2
Corrected Ave (4 peaks):				49.4		Corrected Ave (4 peaks):				53.7	RPD = 8
Aroclor-1268	1	9.839	-0.012	633109	12.1	1	10.342	0.030	227669	4.7	
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1268	3	10.165	0.025	532448	13.5	3	10.693	0.005	256454	7.9	
Aroclor-1268	4	10.664	-0.024	402549	3.6	4	11.173	0.013	32413	0.3	
Total CollAve (3 peaks):				9.7		Total Col2Ave (3 peaks):				4.3	RPD = 77*

Corrected Ave: < 3 Peaks

Corrected Ave: < 3 Peaks

Total PCB Area Col1 (4.324 - 10.827) = 42936176

Col1 Total PCB = 0.2 ppm*

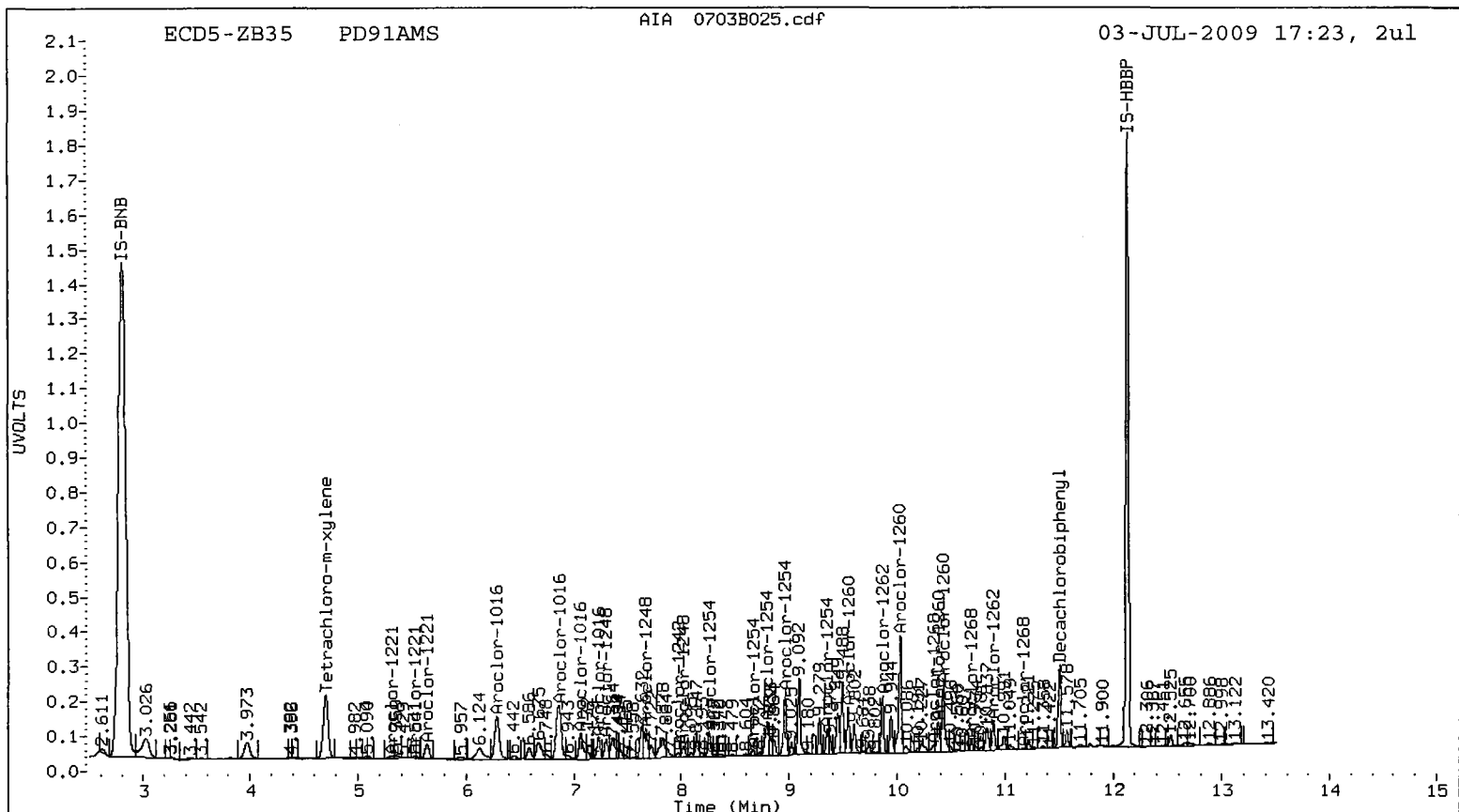
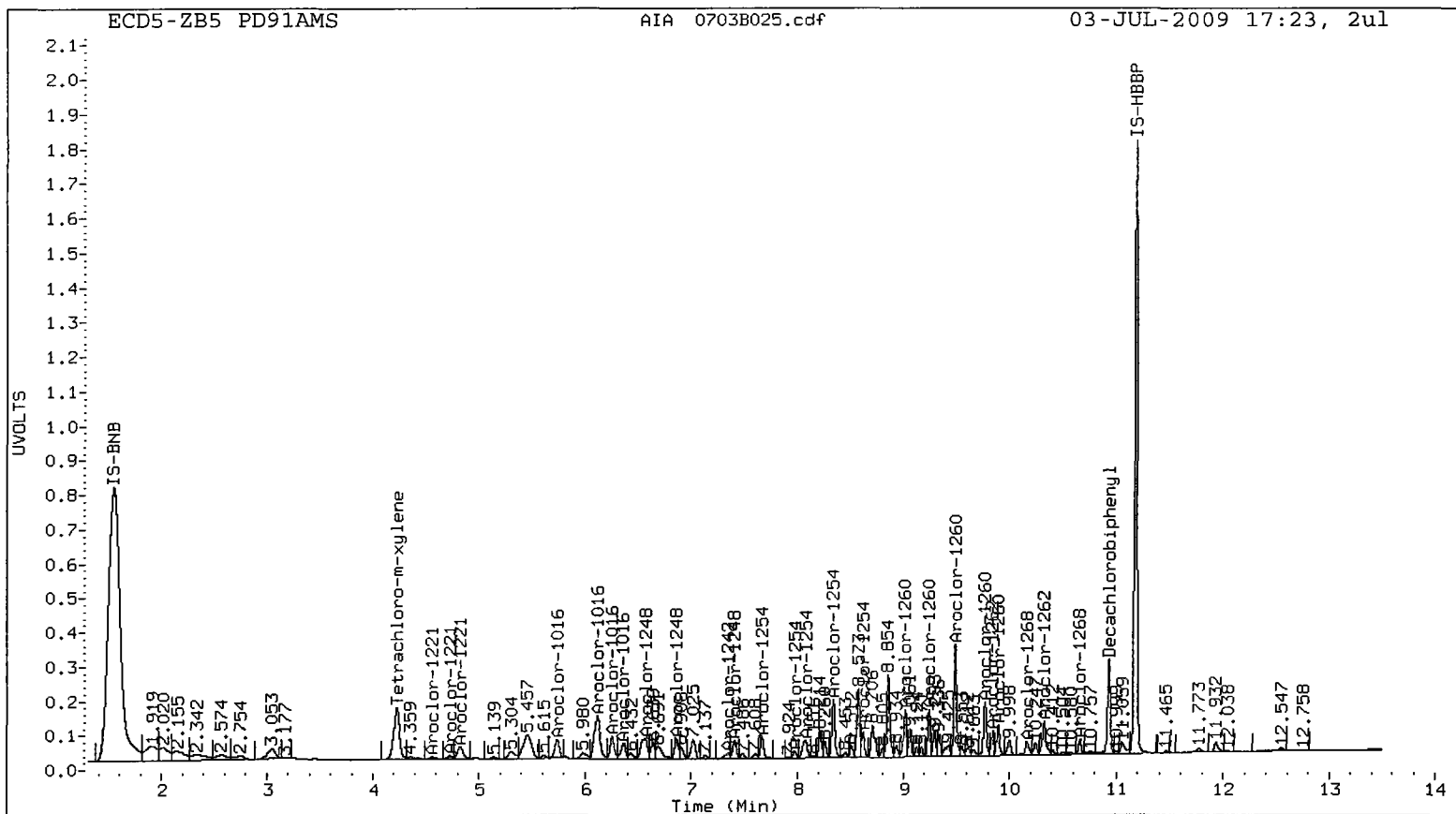
Total PCB Area Col2 (4.806 - 11.404) = 41881303

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PDS1 : 00224



ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

**Sample ID: COMPOSITE GROUP1
MATRIX SPIKE DUP**

Lab Sample ID: PD91A
LIMS ID: 09-14456
Matrix: Sediment
Data Release Authorized: **VTS**
Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix
Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000
Date Sampled: 06/22/09
Date Received: 06/22/09

Date Extracted: 07/01/09
Date Analyzed: 07/03/09 17:40
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No
Percent Moisture: 28.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	---
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	---
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.5%
Tetrachlorometaxylene	80.4%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B026.d
Data file 2: 20090618.B/0703-2.b/0703B026.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91AMSD
Client ID: COMPOSITE GROUP MSD
Injection Date: 03-JUL-2009 17:40
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 5.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.225	0.001 3053824	4.706 0.000 3015621	6.4	6.4	0.5	Tetrachloro-m-xylene
10.929	0.001 2474218	11.506 0.002 1905102	7.7	6.9	11.8	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	80.0	80.4
Decachlorobiphenyl	96.5	85.8

07/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	31962616	3.8
Hexabromobiphenyl	12091267	14731733	21.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	35544364	13.8
Hexabromobiphenyl	11173293	15043180	34.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.737	0.001	974274	92.4	1	6.285	0.003	1681654	103.5	
Aroclor-1016	2	6.112	0.003	2609276	79.1	2	6.862	-0.003	2771046	84.0	
Aroclor-1016	3	6.256	0.001	1037363	74.3	3	7.066	0.002	1328819	102.2	
Aroclor-1016	4	6.361	0.000	750148	77.4	4	7.228	0.001	801641	96.5	
Total CollAve (4 peaks):				80.8	Total Col2Ave (4 peaks):				96.5	RPD = 18	
Corrected Ave (3 peaks):				76.9	Corrected Ave (3 peaks):				94.2	RPD = 20	
Aroclor-1221	1	4.562	0.034	97002	21.5	1	5.300	0.012	276709	54.1	
Aroclor-1221	2	4.730	0.038	144192	44.8	2	5.540	0.026	166051	54.0	
Aroclor-1221	3	4.826	0.037	674641	61.6	3	5.641	0.022	690718	72.9	
Aroclor-1221	NS	---	---	---	---	4	7.066	0.021	1328819	1095.6	
Total CollAve (3 peaks):				42.6	Total Col2Ave (4 peaks):				319.1	RPD = 153*	
Corrected Ave (3 Peaks)				---	Corrected Ave (3 peaks):				60.3	---	
Aroclor-1232	1	4.826	0.036	674641	73.2	1	5.641	0.038	690718	84.0	
Aroclor-1232	2	5.737	0.026	974274	204.6	2	6.285	0.034	1681654	211.3	
Aroclor-1232	3	6.112	0.022	2609276	183.1	3	6.862	0.026	2771046	189.1	
Aroclor-1232	4	6.256	0.020	1037363	175.5	4	7.066	0.028	1328819	233.6	
Total CollAve (4 peaks):				159.1	Total Col2Ave (4 peaks):				179.5	RPD = 12	
Corrected Ave (3 peaks):				143.9	Corrected Ave (3 peaks):				161.5	RPD = 12	
Aroclor-1242	1	5.737	0.001	974274	122.7	1	6.285	0.002	1681654	141.1	
Aroclor-1242	2	6.112	0.003	2609276	106.9	2	6.862	-0.001	2771046	116.5	
Aroclor-1242	3	6.256	0.001	1037363	100.2	3	7.066	0.002	1328819	139.9	
Aroclor-1242	4	7.353	-0.003	291987	34.7	4	7.973	0.002	140852	31.0	
Total CollAve (4 peaks):				91.1	Total Col2Ave (4 peaks):				107.1	RPD = 16	
Corrected Ave (3 peaks):				80.6	Corrected Ave (3 peaks):				95.8	RPD = 17	
Aroclor-1248	1	6.112	0.003	2609276	164.3	1	6.862	0.007	2771046	178.5	
Aroclor-1248	2	6.546	-0.028	1750396	159.3	2	7.301	0.001	677206	70.1	
Aroclor-1248	3	6.860	-0.001	897668	72.0	3	7.670	-0.002	972964	79.4	
Aroclor-1248	4	7.413	0.004	664335	35.8	4	8.023	-0.004	370509	23.3	
Total CollAve (4 peaks):				107.9	Total Col2Ave (4 peaks):				87.8	RPD = 20	
Corrected Ave (3 peaks):				89.0	Corrected Ave (3 peaks):				57.6	RPD = 43*	
Aroclor-1254	1	7.672	0.000	649752	29.4	1	8.263	0.001	727166	40.3	
Aroclor-1254	2	7.981	0.003	230872	16.4	2	8.669	0.001	187913	14.9	
Aroclor-1254	3	8.080	-0.005	884175	33.1	3	8.799	0.019	1198939	48.4	
Aroclor-1254	4	8.336	-0.012	1878618	67.0	4	8.964	0.022	1759335	63.2	
Aroclor-1254	5	8.619	-0.007	736310	44.3	5	9.351	0.015	995584	56.3	
Total CollAve (5 peaks):				38.0	Total Col2Ave (5 peaks):				44.6	RPD = 16	
Corrected Ave (4 peaks):				30.8	Corrected Ave (4 peaks):				40.0	RPD = 26	
Aroclor-1260	1	9.012	0.001	1382217	100.4	1	9.544	0.001	1093393	87.1	
Aroclor-1260	2	9.239	0.001	1255721	95.2	2	10.026	0.001	2849862	78.9	
Aroclor-1260	3	9.487	0.002	3081701	92.8	3	10.381	0.002	824875	95.1	
Aroclor-1260	4	9.767	0.001	1645343	96.8	4	10.426	0.002	1950001	90.5	
Aroclor-1260	5	9.889	0.002	847131	97.2	NS	---	---	---	---	
Total CollAve (5 peaks):				96.5	Total Col2Ave (4 peaks):				87.9	RPD = 9	
Corrected Ave (4 peaks):				95.5	Corrected Ave (3 peaks):				85.5	RPD = 11	
Aroclor-1262	1	9.239	0.021	1255721	64.6	1	9.864	0.011	1401693	63.7	
Aroclor-1262	2	9.487	0.020	3081701	66.5	2	10.026	0.009	2849862	61.3	
Aroclor-1262	3	9.839	0.019	672858	35.4	3	10.381	0.010	824875	45.0	
Aroclor-1262	4	9.889	0.019	847131	41.8	4	10.426	0.008	1950001	69.7	
Aroclor-1262	5	10.326	0.016	1228546	77.3	5	10.893	0.007	763135	52.6	
Total CollAve (5 peaks):				57.1	Total Col2Ave (5 peaks):				58.5	RPD = 2	
Corrected Ave (4 peaks):				52.1	Corrected Ave (4 peaks):				55.7	RPD = 7	
Aroclor-1268	1	9.839	-0.012	672858	12.8	1	10.330	0.018	160144	3.3	
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1268	3	10.165	0.026	491214	12.5	3	10.692	0.004	275929	8.4	
Aroclor-1268	4	10.664	-0.024	408724	3.7	4	11.172	0.012	58208	0.6	
Total CollAve (3 peaks):				9.6	Total Col2Ave (3 peaks):				4.1	RPD = 80*	

Corrected Ave: < 3 Peaks

Corrected Ave: < 3 Peaks

Total PCB Area Col1 (4.324 - 10.827) = 44824903

Col1 Total PCB = 0.2 ppm*

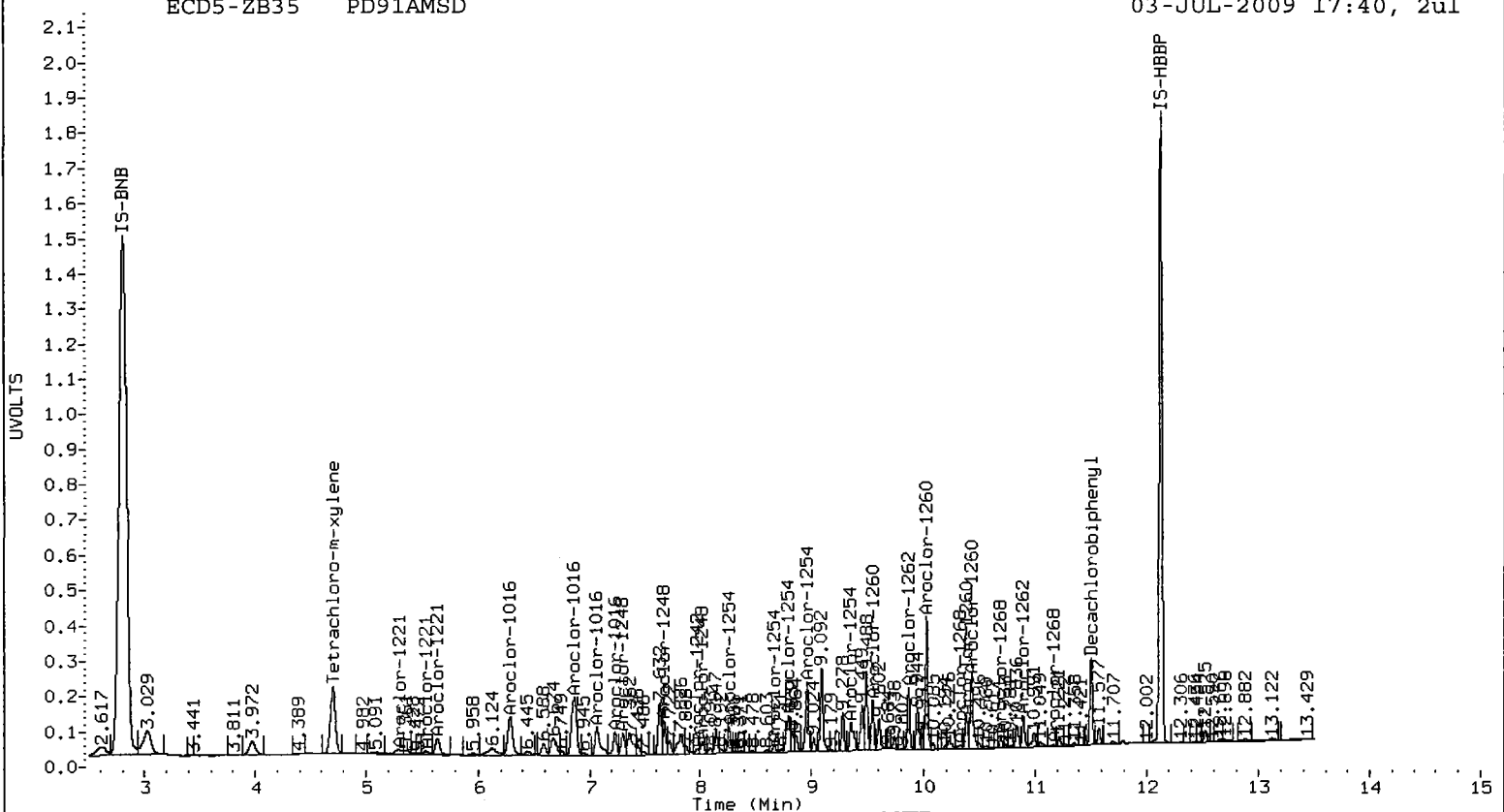
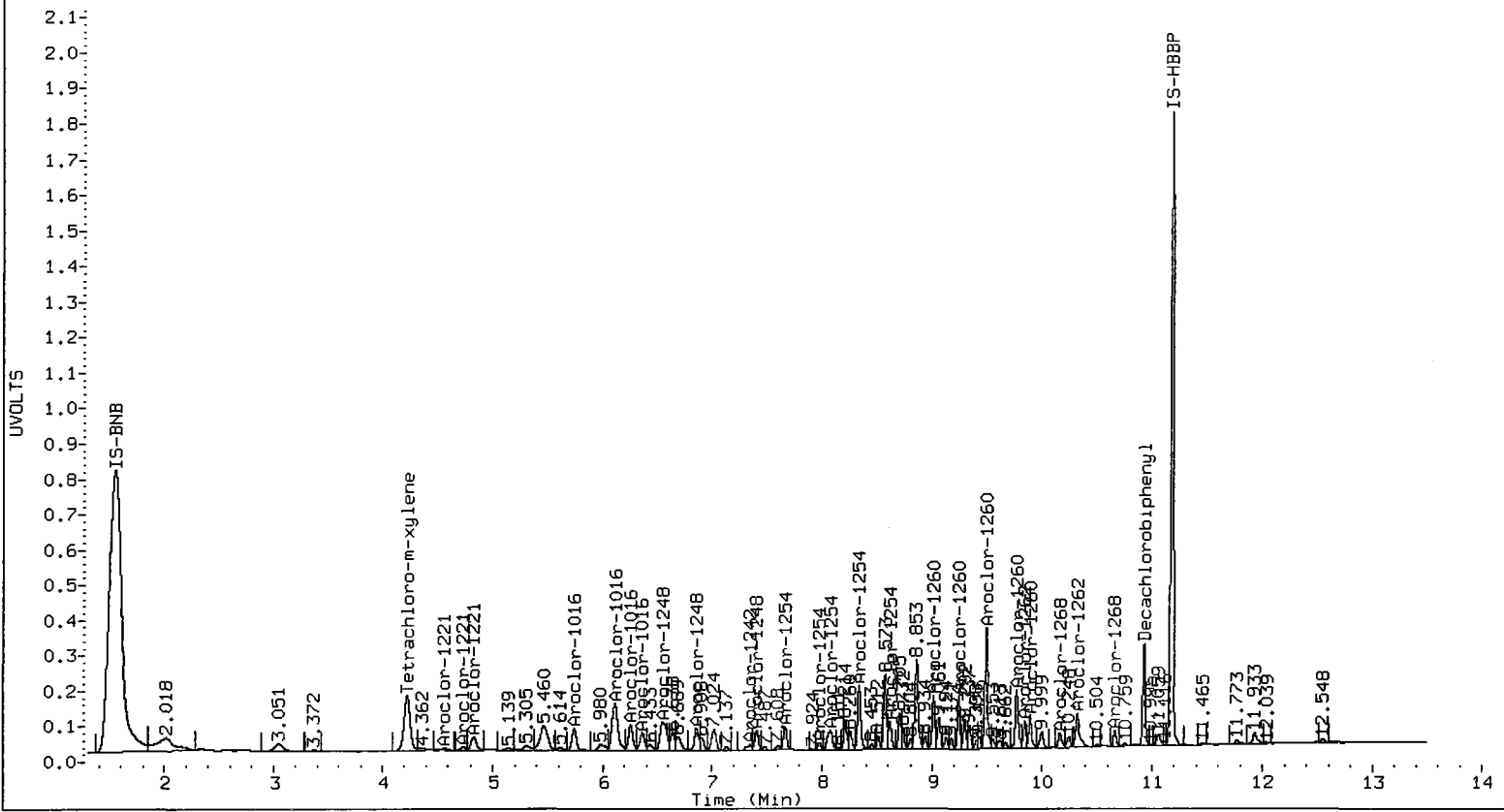
Total PCB Area Col2 (4.806 - 11.404) = 44473984

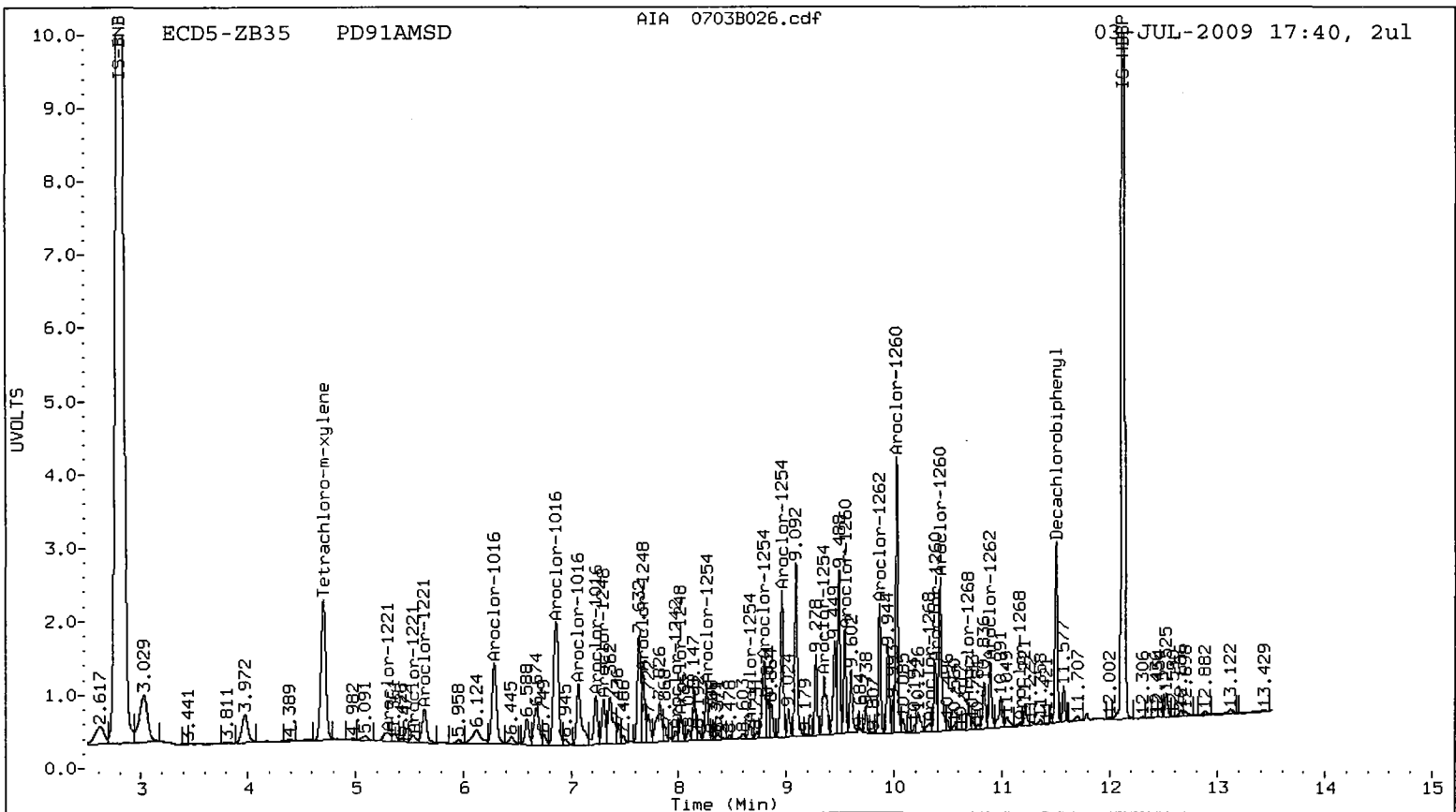
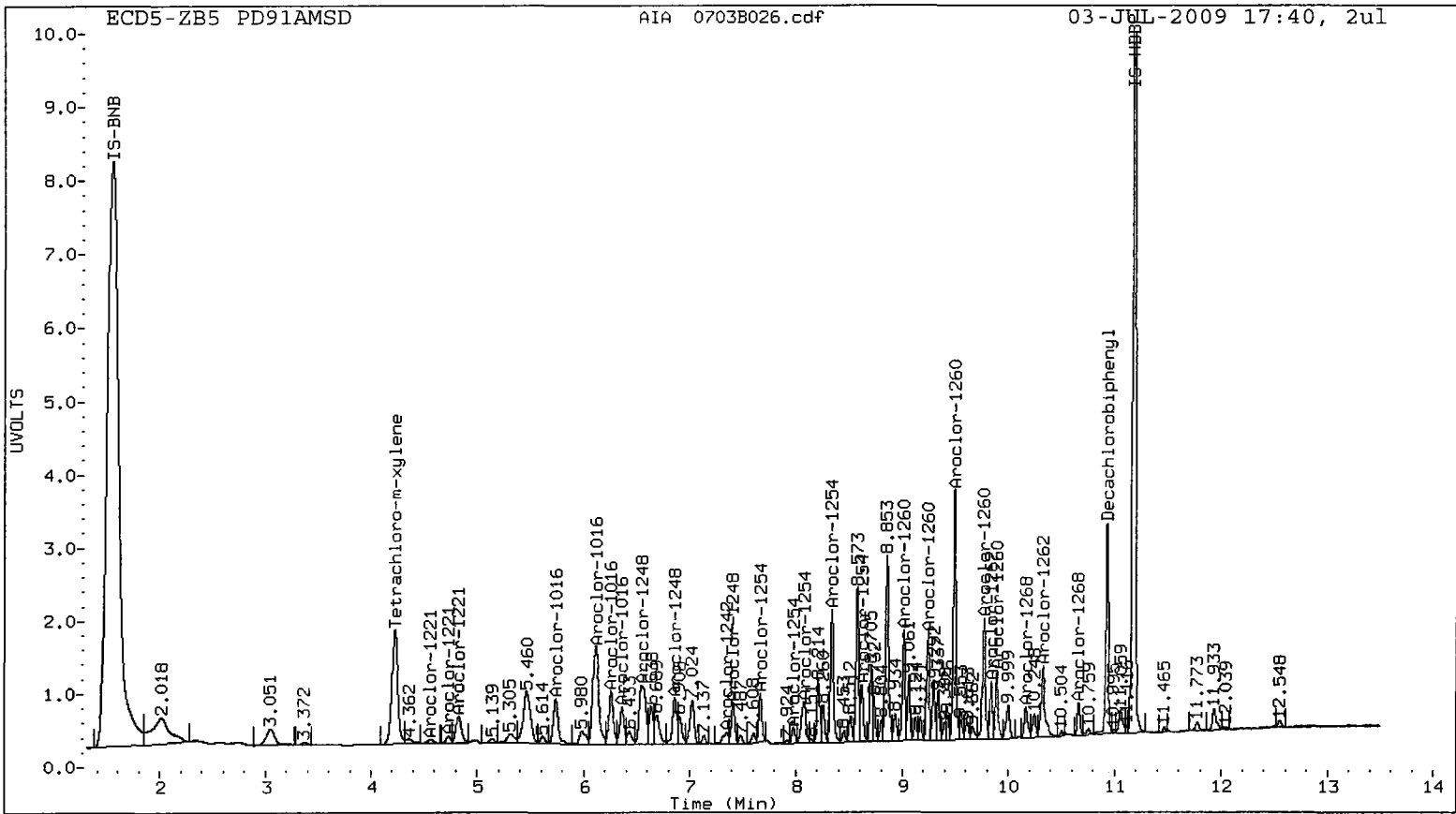
Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PDS1 : 00230





ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: SRM SQ-1

STANDARD REFERENCE

Lab Sample ID: SRM SQ-1

LIMS ID: 09-14456

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 07/07/09

QC Report No: PD91-AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT
10654.000

Date Sampled: NA

Date Received: NA

Date Extracted: 07/01/09

Date Analyzed: 07/03/09 16:49

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 15.0 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 40.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	6.7	< 6.7 U
53469-21-9	Aroclor 1242	6.7	< 6.7 U
12672-29-6	Aroclor 1248	83	< 83 Y
11097-69-1	Aroclor 1254	6.7	160
11096-82-5	Aroclor 1260	6.7	< 6.7 U
11104-28-2	Aroclor 1221	6.7	< 6.7 U
11141-16-5	Aroclor 1232	6.7	< 6.7 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.2%
Tetrachlorometaxylene	76.8%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B023.d
Data file 2: 20090618.B/0703-2.b/0703B023.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91SRM1
Client ID: SQ-1
Injection Date: 03-JUL-2009 16:49
Report Date: 07/07/2009 10:01
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.225	0.001	14797808	4.706	-0.001	12565592	30.7	30.3	1.2	Tetrachloro-m-xylene
10.929	0.002	10537791	11.507	0.003	8350891	34.5	31.0	10.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	76.6	75.7
Decachlorobiphenyl	86.3	77.5

ML 07/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	32349519	5.0
Hexabromobiphenyl	12091267	14033865	16.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	31460226	0.8
Hexabromobiphenyl	11173293	14590371	30.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.700	-0.036	3402997	318.8	1	6.285	0.003	191453084	13315.4	
Aroclor-1016	2	6.098	-0.012	1218046	36.5	2	6.813	-0.052	1115172	38.2	
Aroclor-1016	3	6.272	0.018	951165	67.3	3	7.134	0.070	708065	61.5	
Aroclor-1016	4	6.365	0.003	1097302	111.8	4	7.248	0.021	289460	39.4	
Total CollAve (4 peaks):					133.6	Total Col2Ave (4 peaks):					3363.6 RPD = 185*
Corrected Ave (3 peaks):					71.9	Corrected Ave (3 peaks):					46.4 RPD = 43*

Aroclor-1221	1	4.517	-0.011	619513	135.6	1	5.279	-0.008	113757	25.1
Aroclor-1221	2	4.748	0.056	7940856	2435.5	2	5.480	-0.034	1291012	473.9
Aroclor-1221	3	---	---	---	0.0	3	5.593	-0.026	11669634	1391.2
Aroclor-1221	NS	---	---	---	---	4	7.134	0.089	708065	659.6
CollAve: <3 Quant Peaks						Col2Ave: 637.5				

Aroclor-1232	1	4.831	0.041	3682020	394.6	1	5.593	-0.009	11669634	1603.2	
Aroclor-1232	2	5.700	-0.012	3402997	706.1	2	6.285	0.033	191453084	27181.8	
Aroclor-1232	3	6.098	0.007	1218046	84.5	3	6.813	-0.023	1115172	86.0	
Aroclor-1232	4	6.272	0.036	951165	159.0	4	7.134	0.097	708065	140.6	
Total CollAve (4 peaks):					336.0	Total Col2Ave (4 peaks):					7252.9 RPD = 182*
Corrected Ave (3 peaks):					212.7	Corrected Ave (3 peaks):					509.9 RPD = 97*

Aroclor-1242	1	5.700	-0.036	3402997	423.3	1	6.285	0.002	191453084	18143.3	
Aroclor-1242	2	6.098	-0.011	1218046	49.3	2	6.813	-0.050	1115172	53.0	
Aroclor-1242	3	6.272	0.017	951165	90.8	3	7.134	0.071	708065	84.2	
Aroclor-1242	4	7.341	-0.014	7923035	929.6	4	7.973	0.002	920298	228.5	
Total CollAve (4 peaks):					373.3	Total Col2Ave (4 peaks):					4627.3 RPD = 170*
Corrected Ave (3 peaks):					187.8	Corrected Ave (3 peaks):					121.9 RPD = 43*

Aroclor-1248	1	6.098	-0.012	1218046	75.8	1	6.813	-0.043	1115172	81.2	
Aroclor-1248	2	6.575	0.001	3328323	299.3	2	7.300	-0.001	2844473	332.9	
Aroclor-1248	3	6.859	-0.002	2373141	187.9	3	7.672	0.000	1979830	182.5	
Aroclor-1248	4	7.412	0.003	5042217	268.7	4	8.030	0.003	4816136	342.3	
Total CollAve (4 peaks):					208.0	Total Col2Ave (4 peaks):					234.7 RPD = 12
Corrected Ave (3 peaks):					177.5	Corrected Ave (3 peaks):					148.8 RPD = 11

Aroclor-1254	1	7.671	-0.001	11885293	532.1	1	8.263	0.001	6718829	419.7	
Aroclor-1254	2	7.979	0.001	7605620	532.9	2	8.669	0.001	4841949	434.7	
Aroclor-1254	3	8.085	0.000	10642518	393.1	3	8.780	0.001	9198620	419.2	
Aroclor-1254	4	8.349	0.001	15813599	557.2	4	8.943	0.002	10485409	425.6	
Aroclor-1254	5	8.626	0.000	6150495	365.2	5	9.336	0.000	6511018	416.0	
Total CollAve (5 peaks):					476.1	Total Col2Ave (5 peaks):					423.0 RPD = 12
Corrected Ave (4 peaks):					455.8	Corrected Ave (4 peaks):					420.1 RPD = 8

Aroclor-1260	1	9.011	0.000	521849	39.8	1	9.544	0.001	268664	22.1	
Aroclor-1260	2	9.239	0.001	511477	40.7	2	10.027	0.003	1386335	39.6	
Aroclor-1260	3	9.487	0.002	1195667	37.8	3	10.372	-0.008	1752951	208.5	
Aroclor-1260	4	9.765	0.000	899591	55.6	4	10.426	0.002	929904	44.5	
Aroclor-1260	5	9.891	0.004	263509	31.7	NS	---	---	---	---	
Total CollAve (5 peaks):					41.1	Total Col2Ave (4 peaks):					78.7 RPD = 63*
Corrected Ave (4 peaks):					37.5	Corrected Ave (3 peaks):					35.4 RPD = 6

Aroclor-1262	1	9.239	0.022	511477	27.6	1	9.870	0.017	2469404	115.8	
Aroclor-1262	2	9.487	0.020	1195667	27.1	2	10.027	0.010	1386335	30.8	
Aroclor-1262	3	9.829	0.010	1278698	70.7	3	10.372	0.001	1752951	98.6	
Aroclor-1262	4	9.891	0.021	263509	13.7	4	10.426	0.008	929904	34.2	
Aroclor-1262	5	10.319	0.009	954376	63.0	5	10.893	0.006	200265	14.2	
Total CollAve (5 peaks):					40.4	Total Col2Ave (5 peaks):					58.7 RPD = 37
Corrected Ave (4 peaks):					32.8	Corrected Ave (4 peaks):					44.4 RPD = 30

Aroclor-1268	1	9.829	-0.022	1278698	25.6	1	10.269	-0.043	248594	5.3	
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1268	3	10.168	0.028	213415	5.7	3	10.699	0.011	103258	3.3	
Aroclor-1268	4	10.666	-0.021	343409	3.2	4	11.172	0.012	12552	0.1	
Total CollAve (3 peaks):					11.5	Total Col2Ave (3 peaks):					2.9 RPD = 120*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks					

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Total PCB Area Col1 (4.324 - 10.827) = 432800009

Col1 Total PCB = 1.8 ppm*

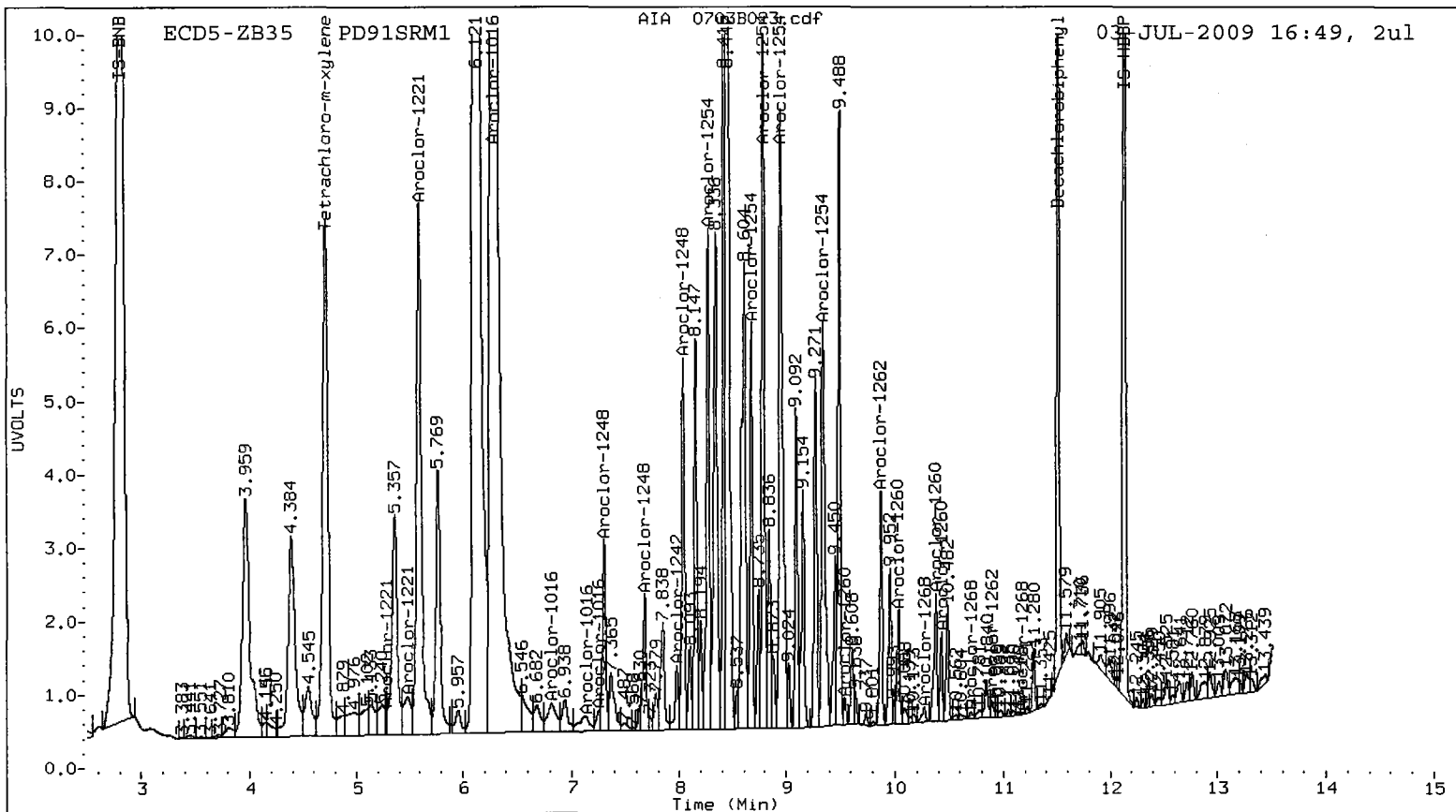
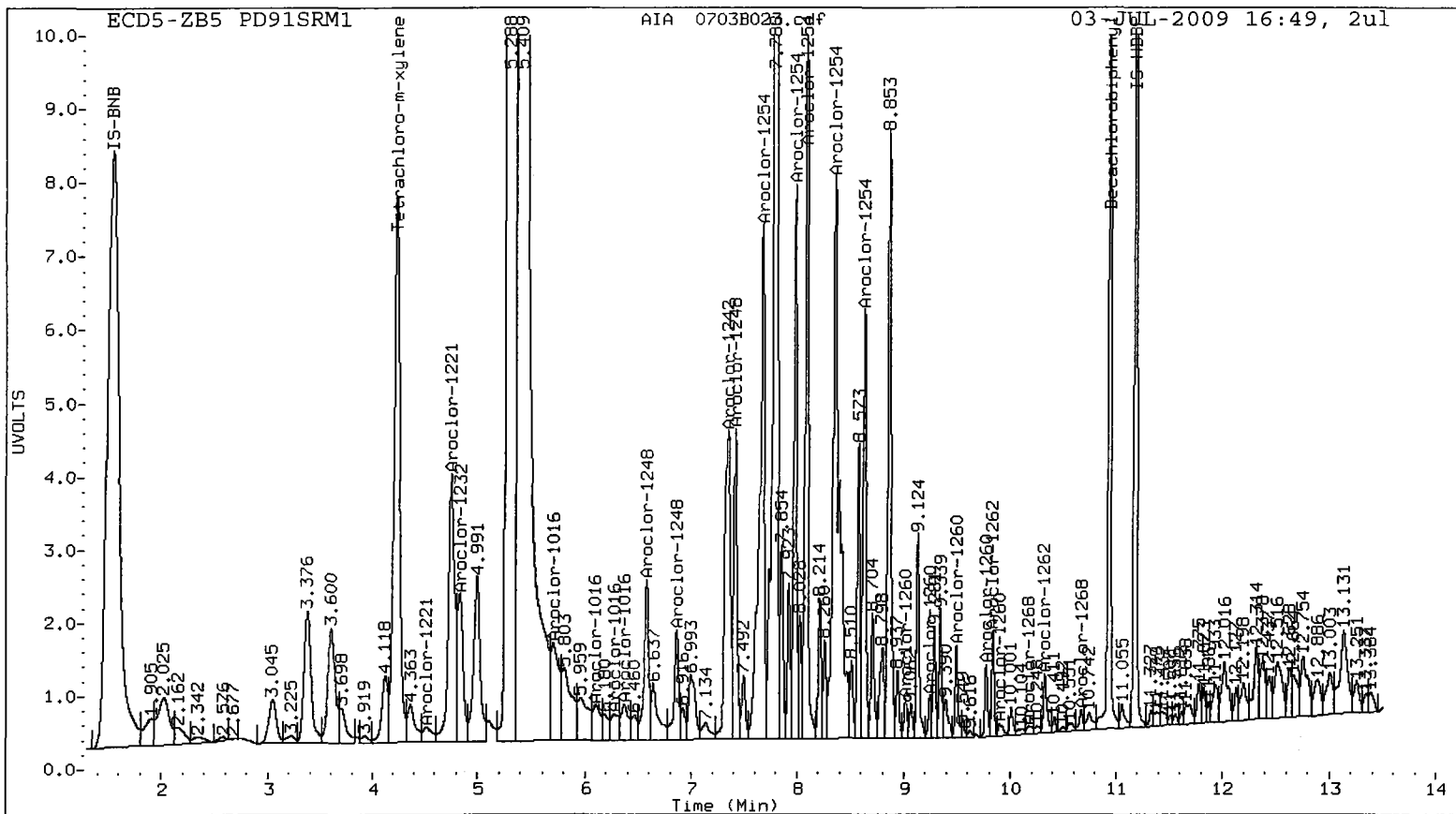
Total PCB Area Col2 (4.806 - 11.404) = 473430955

Col2 Total PCB = 2.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PD91 : 00236



Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20090618.B/0703-1.b/0703B022.d
Data file 2: 20090618.B/0703-2.b/0703B022.d
Method: /chem2/ecd5.i/20090618.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: PD91LCSS1
Client ID: PD91LCSS1
Injection Date: 03-JUL-2009 16:31
Report Date: 07/07/2009 10:00
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.225	0.002	13630090	4.706	0.000	14094041	28.2	29.0	2.9	Tetrachloro-m-xylene
10.929	0.002	10964281	11.507	0.002	9371843	33.5	34.2	2.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	70.4	72.5
Decachlorobiphenyl	83.7	85.5

07/07/09

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	30797009	32423353	5.3
Hexabromobiphenyl	12091267	15047022	24.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31223103	36856280	18.0
Hexabromobiphenyl	11173293	14841433	32.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 18-JUN-2009
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.739	0.002	3995793	373.5	1	6.284	0.002	6144563	364.8	
Aroclor-1016	2	6.115	0.005	12304812	367.9	2	6.865	0.001	13888664	406.1	
Aroclor-1016	3	6.258	0.004	5138060	362.8	3	7.067	0.004	5438008	403.2	
Aroclor-1016	4	6.364	0.002	3581721	364.1	4	7.230	0.003	3652216	423.8	
Total CollAve (4 peaks):					367.2	Total Col2Ave (4 peaks):					399.5 RPD = 8
Corrected Ave (3 peaks):					364.9	Corrected Ave (3 peaks):					391.4 RPD = 7
Aroclor-1221	1	4.565	0.037	608352	132.8	1	5.316	0.028	801489	151.0	
Aroclor-1221	2	4.731	0.039	729092	223.1	2	5.540	0.027	665675	208.6	
Aroclor-1221	3	4.827	0.038	2917910	262.7	3	5.643	0.024	2938412	299.0	
Aroclor-1221	NS	---	---	---	---	4	7.067	0.023	5438008	4324.1	
Total CollAve (3 peaks):					206.2	Total Col2Ave (4 peaks):					1245.7 RPD = 143*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):					219.5
Aroclor-1232	1	4.827	0.037	2917910	312.0	1	5.643	0.041	2938412	344.6	
Aroclor-1232	2	5.739	0.027	3995793	827.2	2	6.284	0.033	6144563	744.7	
Aroclor-1232	3	6.115	0.024	12304812	851.2	3	6.865	0.030	13888664	914.1	
Aroclor-1232	4	6.258	0.022	5138060	856.7	4	7.067	0.030	5438008	921.9	
Total CollAve (4 peaks):					711.8	Total Col2Ave (4 peaks):					731.3 RPD = 3
Corrected Ave (3 peaks):					663.5	Corrected Ave (3 peaks):					667.8 RPD = 1
Aroclor-1242	1	5.739	0.003	3995793	495.9	1	6.284	0.001	6144563	497.0	
Aroclor-1242	2	6.115	0.006	12304812	496.8	2	6.865	0.003	13888664	562.9	
Aroclor-1242	3	6.258	0.003	5138060	489.5	3	7.067	0.004	5438008	552.2	
Aroclor-1242	4	7.359	0.004	1147622	134.3	4	7.975	0.004	500446	106.1	
Total CollAve (4 peaks):					404.1	Total Col2Ave (4 peaks):					429.6 RPD = 6
Corrected Ave (3 peaks):					373.3	Corrected Ave (3 peaks):					385.1 RPD = 3
Aroclor-1248	1	6.115	0.005	12304812	764.0	1	6.865	0.010	13888664	862.7	
Aroclor-1248	2	6.576	0.003	3434998	308.2	2	7.302	0.002	3016188	301.3	
Aroclor-1248	3	6.865	0.002	4003686	316.4	3	7.673	0.002	4429044	348.4	
Aroclor-1248	4	7.416	0.007	3442547	183.1	4	8.024	-0.002	1444395	87.6	
Total CollAve (4 peaks):					392.9	Total Col2Ave (4 peaks):					400.0 RPD = 2
Corrected Ave (3 peaks):					269.2	Corrected Ave (3 peaks):					245.8 RPD = 9
Aroclor-1254	1	7.674	0.003	3601652	160.9	1	8.265	0.003	3191939	170.4	
Aroclor-1254	2	7.981	0.003	721474	50.4	2	8.671	0.003	681730	52.2	
Aroclor-1254	3	8.082	-0.003	3276731	120.8	3	8.800	0.021	5352551	208.2	
Aroclor-1254	4	8.338	-0.010	8331893	292.9	4	8.967	0.025	7920884	274.4	
Aroclor-1254	5	8.620	-0.005	3450402	204.4	5	9.352	0.016	4655303	253.9	
Total CollAve (5 peaks):					165.9	Total Col2Ave (5 peaks):					191.8 RPD = 15
Corrected Ave (4 peaks):					134.1	Corrected Ave (4 peaks):					171.2 RPD = 24
Aroclor-1260	1	9.014	0.003	6179445	439.3	1	9.546	0.003	5351858	432.3	
Aroclor-1260	2	9.241	0.002	5953872	442.0	2	10.027	0.002	15413062	432.6	
Aroclor-1260	3	9.488	0.003	15135552	446.1	3	10.382	0.002	3660157	427.9	
Aroclor-1260	4	9.768	0.003	7508842	432.7	4	10.427	0.002	9097634	428.1	
Aroclor-1260	5	9.890	0.002	3839350	431.4	NS	---	---	---	---	
Total CollAve (5 peaks):					438.3	Total Col2Ave (4 peaks):					430.2 RPD = 2
Corrected Ave (4 peaks):					436.4	Corrected Ave (3 peaks):					429.5 RPD = 2
Aroclor-1262	1	9.241	0.023	5953872	299.9	1	9.865	0.012	6595329	304.0	
Aroclor-1262	2	9.488	0.021	15135552	319.6	2	10.027	0.010	15413062	336.1	
Aroclor-1262	3	9.839	0.020	3205697	165.3	3	10.382	0.011	3660157	202.3	
Aroclor-1262	4	9.890	0.019	3839350	185.6	4	10.427	0.009	9097634	329.4	
Aroclor-1262	5	10.326	0.017	3450850	212.5	5	10.894	0.007	3212498	224.4	
Total CollAve (5 peaks):					236.6	Total Col2Ave (5 peaks):					279.3 RPD = 17
Corrected Ave (4 peaks):					215.8	Corrected Ave (4 peaks):					265.0 RPD = 20
Aroclor-1268	1	9.839	-0.012	3205697	59.9	1	10.322	0.010	215020	4.5	
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1268	3	10.164	0.025	1720125	42.7	3	10.695	0.007	216838	6.7	
Aroclor-1268	4	10.661	-0.027	1292705	11.3	4	11.221	0.061	908524	9.4	
Total CollAve (3 peaks):					38.0	Total Col2Ave (3 peaks):					6.9 RPD = 139*

Corrected Ave: < 3 Peaks

Corrected Ave: < 3 Peaks

Total PCB Area Col1 (4.324 - 10.827) = 188351589

Col1 Total PCB = 0.8 ppm*

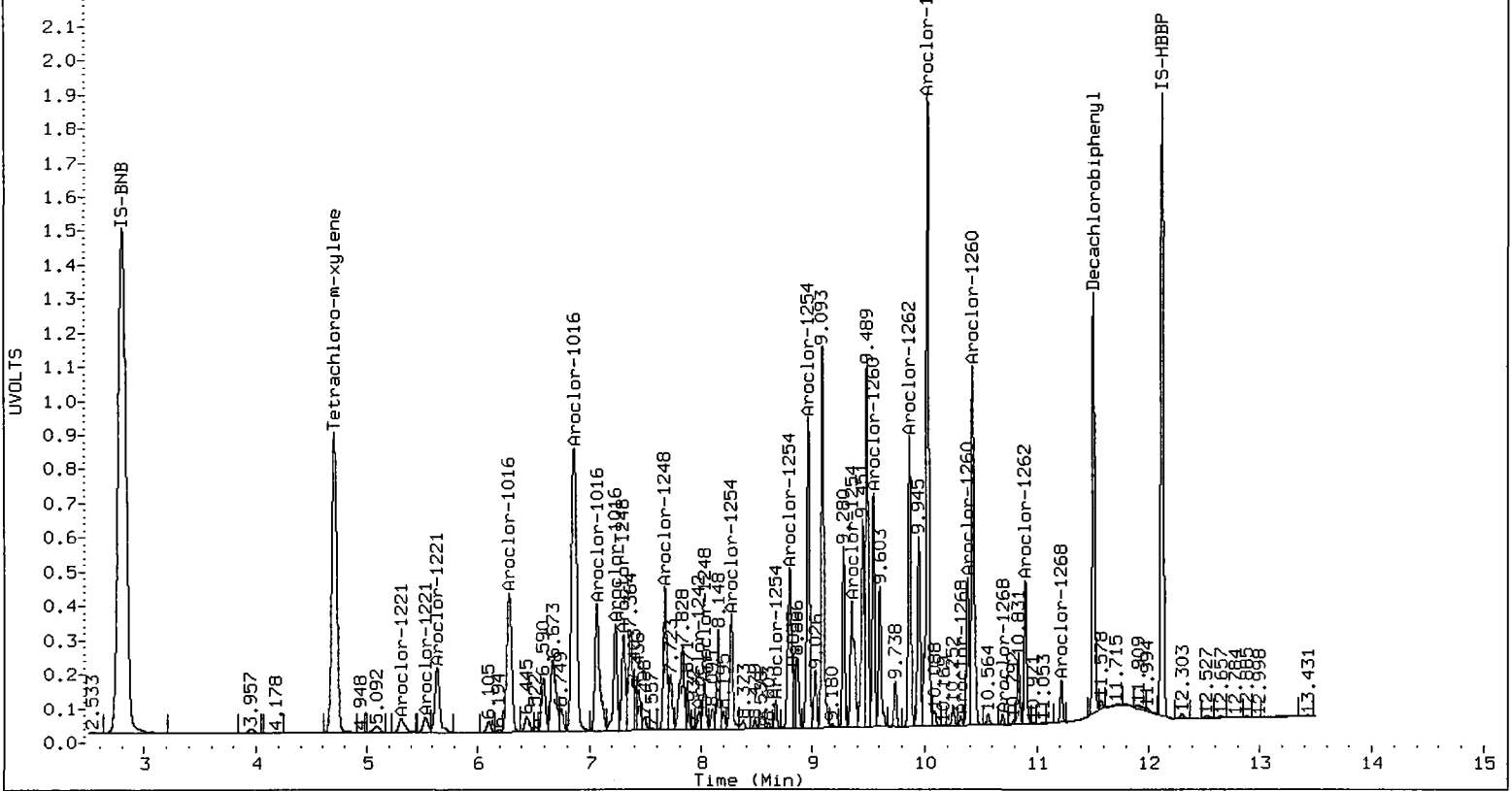
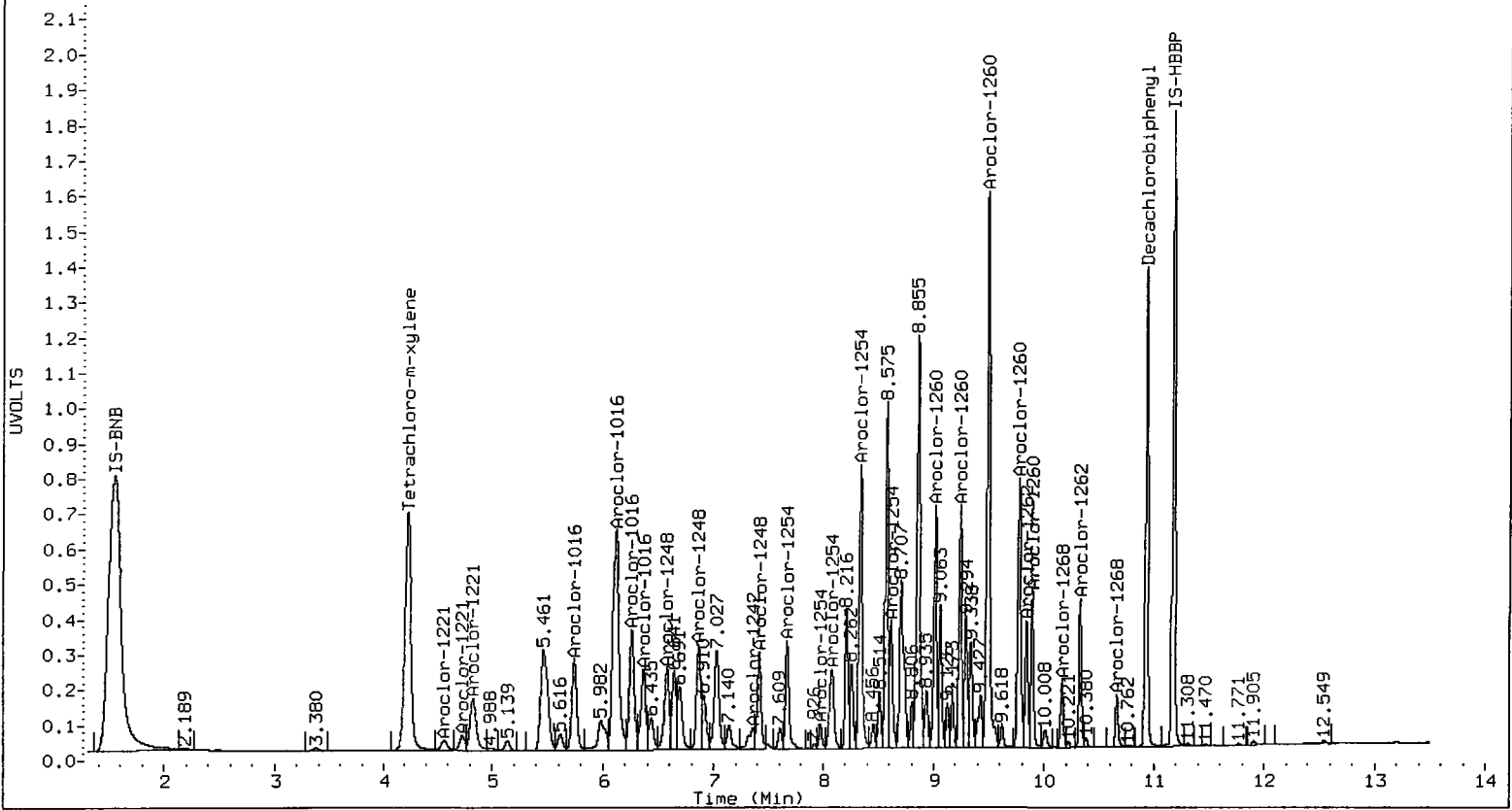
Total PCB Area Col2 (4.806 - 11.404) = 177883206

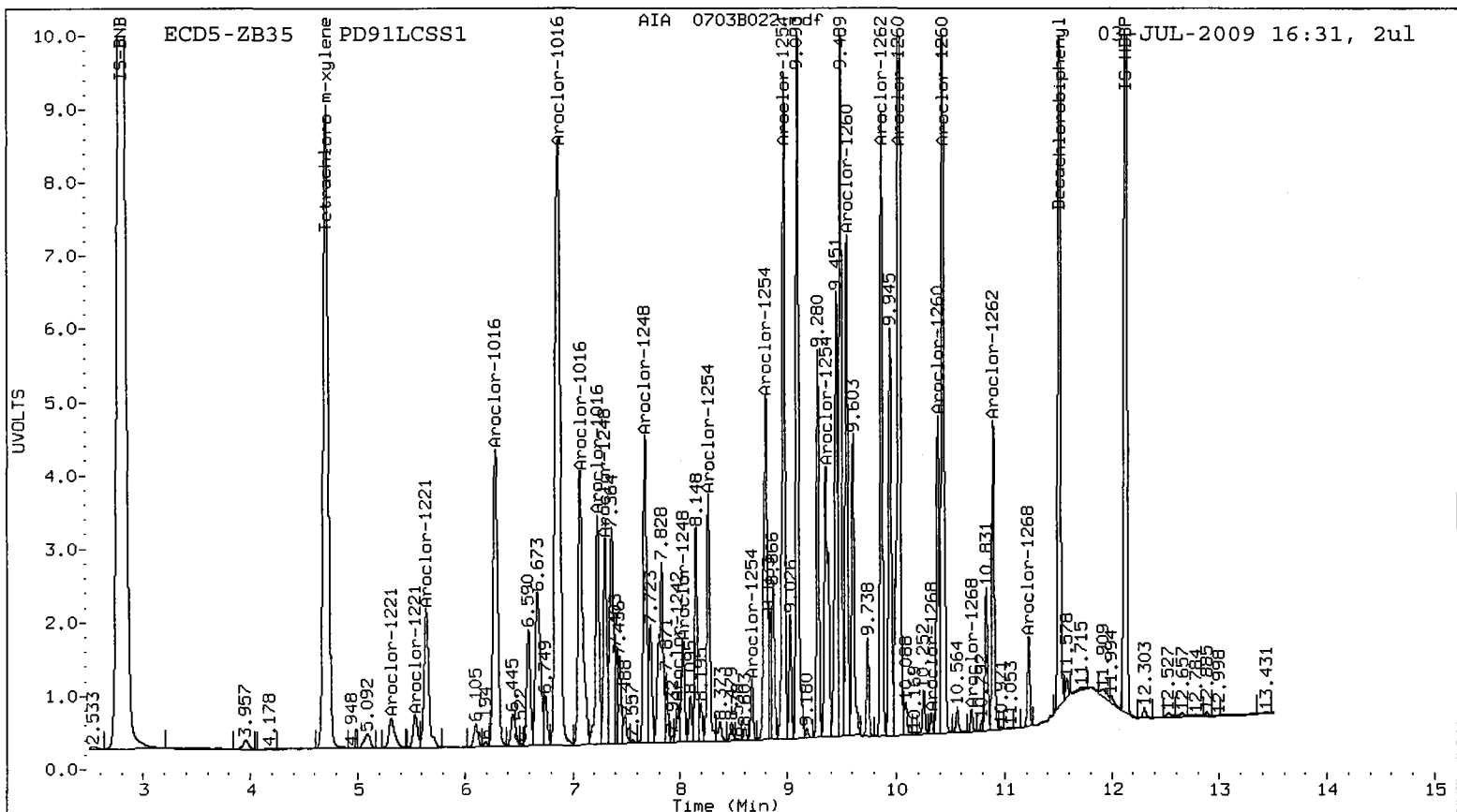
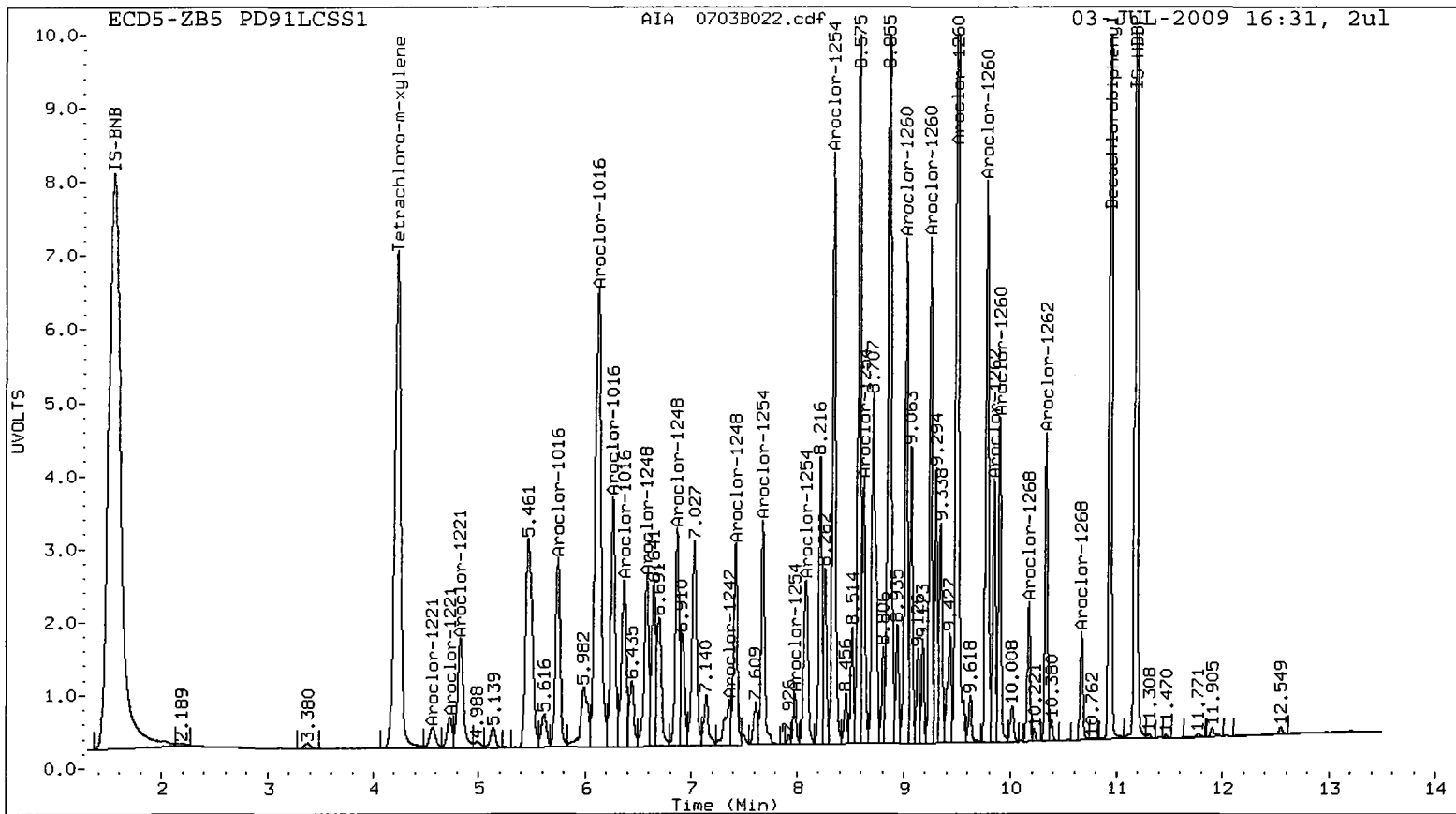
Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PD91 : 00241





PCB Analysis
Extraction Bench Sheets/Run Logs

prepared
for

AMEC Geomatrix

Project: FORMER CUSTOM PLYWOOD PROJECT, 10654.000

ARI JOB NO: PD91

prepared
by

Analytical Resources, Inc.



Preparation Test PCB # 5

ARI Job No(s) PD91

PSDDA (20ppb)
Batch set up by: SP

Bottle #	ARI Sample I.D.	Verify Client ID	Volume Extracted	KD Exchange To Hexane (X 2)	Turbo Vap	(REQ) Acid Clean	(REQ) Sulfur Clean	(opt) Silica Gel Clean (1:5) Y/N	Turbo Vap	Final Effective Volume	Volume to Lab	Comments	
					1 2 3	(Y)	(Y)	Y/N	1 2 3				
	MBS PD91	Date 7/11/09	25.00g		↓	5mL	5mL	1mL	↓	5mL	1mL	10g Actual Weight	
	SBS	↓	↓		↓	↓	↓	↓	↓	↓	↓	↓	
	SBS Dup	↓	↓		↓	↓	↓	↓	↓	↓	↓	↓	
N/A	SQ-1	↓	25.09		↓	↓	↓	↓	↓	↓	↓		
1	A checked	↓	35.69		↓	↓	↓	↓	↓	↓	↓	} Homogenized	
	AMS	↓	35.31		↓	↓	↓	↓	↓	↓	↓		
	AMS0	↓	35.76		↓	↓	↓	↓	↓	↓	↓		
	B	↓	56.37		↓	↓	↓	↓	↓	↓	↓		
	C	↓	53.38		↓	↓	↓	↓	↓	↓	↓		
	D	↓	50.54		↓	↓	↓	↓	↓	↓	↓		
	E	↓	44.38		↓	↓	↓	↓	↓	↓	↓		
Analyst/Date: WC 7/11/09					C52 AB122 7/2/09 7/1/09					C52 7/1/09			

Standard Surrogate	Standard ID	Volume	Expiration Date	Analyst	Witness
	N	100µL	5/29/10	WC	u/w
Spike	1	125µL	6/8/10	WC	WW

Extraction Time: 28:35

SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into 600mL or 400mL beakers. 2. Use 10g neutral Sodium Sulfate for the blanks. 3. Add surr/spike. 4. Add 8:2 Hexane/Acetone. 5. Dry using neutral Sodium Sulfate-25g Max at first-A small amt of Additional sulfate may be needed after 10 min. or before 2nd sonication? 6. Sonicate 3X with 8:2 Hexane/Acetone. 7. Collect into 500mL flask+Lg funnel with a small amount neutral glasswool plug only. NO SODIUM SULFATE. 8. KD (Normal Drying Column) on 100° bath. (Blanks=only 5g Sodium Sulfate). 9. Exchange (2 X with 20mL) Hexane. 10. TurboVap. 11. Clean-ups. 12. TurboVap (if Silica Clean). 13. Vial with Hexane.

A. Need Total Solids Y/N B. Archive/Freeze Y/N

Extractions Total Solids-exttts
Data By: Woo suk Chang
Created: 6/24/09

Worklist: 6417
Analyst: WC
Comments:

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. PD91A 09-14456 COMPOSITE GROUP1	1.16g	12.48g		8.98	NR
2. PD91B 09-14457 COMPOSITE GROUP2	1.19g	10.64g		5.46	NR
3. PD91C 09-14458 COMPOSITE GROUP3	1.18g	11.27g		5.95	NR
4. PD91D 09-14459 COMPOSITE GROUP4	1.15g	11.68g		7.0 6.50	NR 0125109
5. PD91E 09-14460 COMPOSITE GROUP5	1.17g	11.27g		7.01	NR
6. PD91F 09-14461 10654007	1.16g	11.66g		5.65	NR

Analytical Resources Inc.: Organics Instrument Log

ECD5 Serial No.: US00034118

Date: 06/18-06/21/09 Analysis: PCB's Analyst: R
 GC Program: PCB2 Column No: 35079/148679 Column Type: ZB5/PCB35
 Instrument Tune (.U or .CT.): N/A EM Voltage: N/A
 Calibration File: N/A Curve Date: 06/18/09
LCS/ICV

IS/SS	Ical/Ccal
1613-3	1608-1
	1615-2,3,4
	1616-1,2,3

Inject	Date/Time	Filename	DF	LabID
1	18-JUN-2009 16:42	0617B116.d	1	IB
2	18-JUN-2009 17:00	0617B117.d	1	AR1232 250
3	18-JUN-2009 17:17	0617B118.d	1	AR1232 20
4	18-JUN-2009 17:34	0617B119.d	1	AR1232 1000
5	18-JUN-2009 17:51	0617B120.d	1	AR1232 100
6	18-JUN-2009 18:08	0617B121.d	1	AR1232 500
7	18-JUN-2009 18:26	0617B122.d	1	0.25 PPM AR
8	18-JUN-2009 18:43	0617B123.d	1	0.02 PPM AR
9	18-JUN-2009 19:00	0617B124.d	1	1 PPM AR166
10	18-JUN-2009 19:18	0617B125.d	1	0.1 PPM AR1
11	18-JUN-2009 19:35	0617B126.d	1	0.5 PPM AR1
12	18-JUN-2009 19:52	0617B127.d	1	AR1660 ICV
13	18-JUN-2009 20:10	0617B128.d	1	AR1242
14	18-JUN-2009 20:27	0617B129.d	1	AR1248
15	18-JUN-2009 20:44	0617B130.d	1	AR1254
16	18-JUN-2009 21:02	0617B131.d	1	AR2162
17	18-JUN-2009 21:19	0617B132.d	1	AR3268
18	18-JUN-2009 21:36	0617B133.d	1	0.1 PPM DDT:
19	18-JUN-2009 21:53	0617B134.d	1	DDT BD
20	18-JUN-2009 22:11	0617B135.d	1	AR1660
21	18-JUN-2009 22:28	0617B136.d	1	AR1242
22	18-JUN-2009 22:45	0617B137.d	1	PC74MBS1
23	18-JUN-2009 23:02	0617B138.d	1	PC74LCSS1
24	18-JUN-2009 23:20	0617B139.d	5	PC74SRM1
25	18-JUN-2009 23:37	0617B140.d	1	PC74A
26	18-JUN-2009 23:54	0617B141.d	1	PC74AMS
27	19-JUN-2009 00:11	0617B142.d	1	PC74AMSD
28	19-JUN-2009 00:29	0617B143.d	1	AR3268
29	19-JUN-2009 00:46	0617B144.d	1	AR1660
30	19-JUN-2009 01:03	0617B145.d	1	AR1254
31	19-JUN-2009 01:20	0617B146.d	1	PB63MBS1
32	19-JUN-2009 01:38	0617B147.d	1	PB63LCSW1
33	19-JUN-2009 01:55	0617B148.d	1	PB63A
34	19-JUN-2009 02:12	0617B149.d	1	PB63B
35	19-JUN-2009 02:29	0617B150.d	1	PB63C
36	19-JUN-2009 02:46	0617B151.d	5	PB63D
37	19-JUN-2009 03:04	0617B152.d	5	PB63DMS
38	19-JUN-2009 03:21	0617B153.d	5	PB63DMSD
39	19-JUN-2009 03:38	0617B154.d	1	PB63E
40	19-JUN-2009 03:55	0617B155.d	1	PB63F
41	19-JUN-2009 04:12	0617B156.d	1	PB63G
42	19-JUN-2009 04:30	0617B157.d	1	PB63H
43	19-JUN-2009 04:47	0617B158.d	1	PB63I
44	19-JUN-2009 05:04	0617B159.d	1	AR1248
45	19-JUN-2009 05:21	0617B160.d	1	AR1660
46	19-JUN-2009 05:38	0617B161.d	1	PB98MBS1
47	19-JUN-2009 05:55	0617B162.d	1	PB98LCSS1
48	19-JUN-2009 06:13	0617B163.d	1	AR1248
49	19-JUN-2009 06:30	0617B164.d	1	AR1660
50	19-JUN-2009 06:47	0617B165.d	1	PB98MBS1
51	19-JUN-2009 07:04	0617B166.d	1	PB98LCS:
52	19-JUN-2009 07:21	0617B167.d	10	PB98A
53	19-JUN-2009 07:38	0617B168.d	10	PB98B
54	19-JUN-2009 07:56	0617B169.d	20	PB98C
55	19-JUN-2009 08:13	0617B170.d	10	PB98D
56	19-JUN-2009 08:30	0617B171.d	20	PB98E
57	19-JUN-2009 08:47	0617B172.d	1	AR1254
58	19-JUN-2009 09:04	0617B173.d	1	AR1660
59	19-JUN-2009 09:22	0617B174.d	20	PB98F
60	19-JUN-2009 09:39	0617B175.d	10	PB98G
61	19-JUN-2009 09:56	0617B176.d	10	PB98H
62	19-JUN-2009 10:13	0617B177.d	10	PB98HMS
63	19-JUN-2009 10:30	0617B178.d	10	PB98HMS
64	19-JUN-2009 10:48	0617B179.d	10	PB98I
65	19-JUN-2009 11:05	0617B180.d	1	PD25MBW
66	19-JUN-2009 11:22	0617B181.d	1	PD25LCW
67	19-JUN-2009 11:39	0617B182.d	1	PD25LCS
68	19-JUN-2009 11:56	0617B183.d	1	PD25A
69	19-JUN-2009 12:14	0617B184.d	1	AR1242
70	19-JUN-2009 12:31	0617B185.d	1	AR1660
71	19-JUN-2009 12:48	0617B186.d	1	PC16MBS
72	19-JUN-2009 13:05	0617B187.d	1	PC16LCS
73	19-JUN-2009 13:22	0617B188.d	1	PC16LCS
74	19-JUN-2009 13:39	0617B189.d	5	PC16A
75	19-JUN-2009 13:56	0617B190.d	5	PC16B
76	19-JUN-2009 14:14	0617B191.d	5	PC16C
77	19-JUN-2009 14:31	0617B192.d	5	PC16D
78	19-JUN-2009 14:48	0617B193.d	1	AR1248
79	19-JUN-2009 15:05	0617B194.d	1	AR1660
80	19-JUN-2009 15:26	0617B195.d	5	PC16E
81	19-JUN-2009 15:43	0617B196.d	1	PC16MBS
82	19-JUN-2009 16:00	0617B197.d	1	PC16MBS
83	19-JUN-2009 16:17	0617B198.d	1	PC16LC:
84	19-JUN-2009 16:35	0617B199.d	1	PC16LC:
85	19-JUN-2009 16:52	0617B200.d	5	PC16A
86	19-JUN-2009 17:09	0617B201.d	5	PC16B
87	19-JUN-2009 17:26	0617B202.d	5	PC16C
88	19-JUN-2009 17:43	0617B203.d	5	PC16D
89	19-JUN-2009 18:00	0617B204.d	15	PC16F
90	19-JUN-2009 18:18	0617B205.d	10	PC16G
91	19-JUN-2009 18:35	0617B206.d	15	PC16H
92	19-JUN-2009 18:52	0617B207.d	1	AR1242
93	19-JUN-2009 19:09	0617B208.d	1	AR1660
94	19-JUN-2009 19:27	0617B209.d	5	PC16I
95	19-JUN-2009 19:44	0617B210.d	5	PC16J
96	19-JUN-2009 20:01	0617B211.d	5	PC16K
97	19-JUN-2009 20:18	0617B212.d	5	PC16KM
98	19-JUN-2009 20:36	0617B213.d	5	PC16KM
99	19-JUN-2009 20:53	0617B214.d	15	PC16L
100	19-JUN-2009 21:10	0617B215.d	15	PC16M

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

ECD5 Serial No.: US00034118

Date: 7/3/09 Analysis: PCBS Analyst: PC

GC Program: PCB2 Column No: B3079/148679 Column Type: 2B35/2B35

Instrument Tune (.U or .CT.): — EM Voltage: —

Calibration File: — Curve Date: 6/18/09

IS/SS	Ical/Ccal	LCS/ICV
1613-3	1608-1	
	1615-234	
	1616-623	

Inj	Inject Date/Time	Filename	DF	LabID
1	03-JUL-2009 10:31	0703B001.d	1	RINSE
2	03-JUL-2009 10:48	0703B002.d	1	RINSE
3	03-JUL-2009 11:05	0703B003.d	1	RINSE
4	03-JUL-2009 11:22	0703B004.d	1	0.1 PPM DDTs
5	03-JUL-2009 11:40	0703B005.d	1	AR1660
6	03-JUL-2009 11:57	0703B006.d	1	AR1254
7	03-JUL-2009 12:14	0703B007.d	250	PE54E
8	03-JUL-2009 12:31	0703B008.d	50	PE54EDUP
9	03-JUL-2009 12:48	0703B009.d	1	PD94MBS1
10	03-JUL-2009 13:05	0703B010.d	1	PD94LCSS1
11	03-JUL-2009 13:23	0703B011.d	1	PD94LCSDS1
12	03-JUL-2009 13:40	0703B012.d	5	PD94A
13	03-JUL-2009 13:57	0703B013.d	5	PD94B
14	03-JUL-2009 14:14	0703B014.d	5	PD94C
15	03-JUL-2009 14:31	0703B015.d	5	PD94CMS
16	03-JUL-2009 14:48	0703B016.d	5	PD94CMSD
17	03-JUL-2009 15:06	0703B017.d	1	AR1248
18	03-JUL-2009 15:23	0703B018.d	1	AR1660
19	03-JUL-2009 15:40	0703B019.d	1	AR1248
20	03-JUL-2009 15:57	0703B020.d	1	AR1660
21	03-JUL-2009 16:14	0703B021.d	1	PD91MBS1
22	03-JUL-2009 16:31	0703B022.d	1	PD91LCSS1
23	03-JUL-2009 16:49	0703B023.d	1	PD91SRM1
24	03-JUL-2009 17:06	0703B024.d	5	PD91A
25	03-JUL-2009 17:23	0703B025.d	5	PD91AMS
26	03-JUL-2009 17:40	0703B026.d	5	PD91AMSD
27	03-JUL-2009 17:57	0703B027.d	5	PD91B
28	03-JUL-2009 18:14	0703B028.d	5	PD91C
29	03-JUL-2009 18:32	0703B029.d	5	PD91D
30	03-JUL-2009 18:49	0703B030.d	5	PD91E
31	03-JUL-2009 19:06	0703B031.d	1	AR1242
32	03-JUL-2009 19:23	0703B032.d	1	AR1660
33	03-JUL-2009 19:40	0703B033.d	1	PF58MBW1
34	03-JUL-2009 19:57	0703B034.d	1	PF58LCSW1
35	03-JUL-2009 20:14	0703B035.d	1	PF58LCSDW1
36	03-JUL-2009 20:31	0703B036.d	1	PF58A
37	03-JUL-2009 20:49	0703B037.d	1	PF64MBW1
38	03-JUL-2009 21:06	0703B038.d	1	PF64LCSW1
39	03-JUL-2009 21:23	0703B039.d	1	PF64LCSDW1
40	03-JUL-2009 21:40	0703B040.d	1	PF64A
41	03-JUL-2009 21:57	0703B041.d	1	AR1254
42	03-JUL-2009 22:14	0703B042.d	1	AR1660
43	03-JUL-2009 22:32	0703B043.d	1	RINSE
44	03-JUL-2009 22:49	0703B044.d	1	RINSE
45	03-JUL-2009 23:06	0703B045.d	1	RINSE
46	03-JUL-2009 23:23	0703B046.d	1	RINSE
47	03-JUL-2009 23:40	0703B047.d	1	RINSE

PC 7/6/09

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



Memo

To: Kathleen Goodman
From: Tasya Gray
Tel:
Fax:
Date: August 26, 2008

Project: 10654
cc: Project File

**Subject: Former Custom Plywood Plant, July 2008 Sampling
Summary Data Quality Review – OnSite SDGs: 0807-100, 0807-101, 0807-117,
0807-118, 0807-129, and 1077704**

This memorandum presents the summary data quality review of 106 primary soil samples and 1 primary grab groundwater sample collected between July 14 and 17, 2008. The samples were submitted to OnSite Environmental, Inc. (OnSite), a Washington State Department of Ecology (Ecology) accredited laboratory, located in Redmond, Washington. The samples were selectively analyzed for the following:

- Total Petroleum Hydrocarbons (TPH) as diesel extended by Ecology Method NWTPH-Dx (with silica gel and acid wash cleanup);
- TPH as gasoline by Ecology Method NWTPH-Gx;
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021B;
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D-SIM;
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270D-SIM;
- Volatile Organic Compounds (VOCs) by EPA Method 8260B;
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082;
- Total Priority Pollutant Metals (Ag, As, Be, Cd, Cr, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn) by EPA Methods 6010B/6020/7470A/7471A/200.8/;
- Total Organic Carbon (TOC) by Plumb, 1981;
- Dioxins/Furans by EPA Method 8290;
- Volatile Petroleum Hydrocarbons (VPH) by Ecology Method WA VPH; and
- Extractable Petroleum Hydrocarbons (EPH) by Ecology Method WA EPH.

The samples and the analyses conducted on the samples are listed in the table below. Samples that were submitted to the laboratory but not analyzed by the laboratory are denoted with "--".

Sample ID	Laboratory Sample ID	Requested Analyses
GMX-S27-0-1	0807-100-01	--
GMX-S27-2-4	0807-100-02	TPH-G/BTEX, TPH-Dx, PAHs, PCBs, metals, TOC
GMX-S27-4-6	0807-100-03	TPH-Dx, TOC
GMX-S18-0-1	0807-100-04	--
GMX-S18-2-4	0807-100-05	TPH-G/BTEX, TPH-Dx, PAHs, PCBs, Metals, TOC
GMX-S18-4-6	0807-100-06	TPH-Dx, TOC
GMX-S19-0-1	0807-100-07	TPH-Dx, TOC
GMX-S19-2-4	0807-100-08	TPH-G/BTEX, TPH-Dx, PCBs, Metals, TOC
GMX-S19-4-6	0807-100-09	--
GMX-S28-0-1	0807-100-10	--
GMX-S28-2-4	0807-100-11	TPH-G/BTEX, TPH-Dx, PAHs, PCBs, Metals, TOC
GMX-S28-4-6	0807-100-12	TPH-Dx, TOC
GMX-S29-0-1	0807-100-13	TPH-Dx, TOC
GMX-S29-2-4	0807-100-14	TPH-G/BTEX, TPH-Dx, PCBs, Metals, TOC
GMX-S29-4-6	0807-100-15	--
GMX-S21-0-1	0807-100-16	--
GMX-S21-2-4	0807-100-17	TPH-G/BTEX, TPH-Dx, PAHs, PCBs, Metals, TOC
GMX-S21-4-6	0807-100-18	TPH-Dx, TOC
GMX-S22-0-1	0807-100-19	--
GMX-S22-2-4	0807-100-20	TPH-G/BTEX, TPH-Dx, PAHs, PCBs, Metals, TOC
GMX-S22-4-6	0807-100-21	TPH-Dx, TOC
GMX-S23-0-1	0807-100-22	TPH-Dx, TOC
GMX-S23-2-4	0807-100-23	TPH-G/BTEX, TPH-Dx, PCBs, Metals, TOC
GMX-S23-4-6	0807-100-24	--
GMX-S30-0-1	0807-101-01	--
GMX-S30-2-4	0807-101-02	TPH-Dx, SVOCs, PCBs, Metals, TOC
GMX-S30-4-6	0807-101-03	TPH-Dx, TOC
GMX-S16-0-1	0807-101-04	--
GMX-S16-2-4	0807-101-05	TPH-Dx, SVOCs, VOCs, PCBs, Metals, TOC
GMX-S16-4-6	0807-101-06	TPH-Dx, PAHs, PCBs, TOC
GMX-S17-0-1	0807-101-07	TPH-Dx, TOC
GMX-S17-2-4	0807-101-08	TPH-Dx, VOCs, PCBs, Metals, TOC
GMX-S17-4-6	0807-101-09	PCBs

Sample ID	Laboratory Sample ID	Requested Analyses
GMX-S24-0-1	0807-101-10	--
GMX-S24-2-4	0807-101-11	TPH-G/BTEX, TPH-Dx, PAHs, PCBs, Metals, TOC
GMX-S24-4-6	0807-101-12	TPH-Dx, TOC
GMX-S25-0-1	0807-101-13	TPH-Dx, TOC
GMX-S25-2-4	0807-101-14	TPH-G/BTEX, TPH-Dx, PCBs, Metals, TOC
GMX-S25-4-6	0807-101-15	PCBs
GMX-S10-0-1	0807-101-16	--
GMX-S10-2-4	0807-101-17	TPH-G/BTEX, TPH-Dx, PAHs, TOC
GMX-S10-4-6	0807-101-18	TPH-Dx, TOC
GMX-S26-0-1	0807-117-01	--
GMX-S26-2-4	0807-117-02	TPH-G/BTEX, TPH-Dx, PAHs, PCBs, Metals, TOC
GMX-S26-4-6	0807-117-03	TPH-Dx, PAHs, PCBs, TOC
GMX-S11-0-1	0807-117-04	--
GMX-S11-2-4	0807-117-05	TPH-G/BTEX, TPH-Dx, SVOCs, TOC
GMX-S6-0-1	0807-117-06	--
GMX-S6-2-4	0807-117-07	TPH-G, TPH-Dx, Metals, TOC, VOCs
GMX-S6-4-6	0807-117-08	TPH-Dx, SVOCs, TOC
GMX-S7-0-1	0807-117-09	--
GMX-S7-2-4	0807-117-10	TPH-G/BTEX, TPH-Dx, TOC
GMX-S7-4-6	0807-117-11	TPH-Dx, TOC
GMX-S20-0-1	0807-117-12	TPH-Dx, TOC
GMX-S20-2-4	0807-117-13	TPH-G/BTEX, TPH-Dx, PCBs, Metals, TOC
GMX-S20-4-6	0807-117-14	--
GMX-S9-0-1	0807-117-15	--
GMX-S9-2-4	0807-117-16	TPH-G/BTEX, TPH-Dx, SVOCs, TOC, EPH/VPH
GMX-S9-4-6	0807-117-17	TPH-Dx, TOC
GMX-S9-W	0807-117-18	TPH-G, TPH-Dx, VOCs, Total Metals, TOC
GMX-S31-4-6	0807-117-19	TPH-G/BTEX, TPH-Dx, Metals, TOC
GMX-MW4-0-1.5	0807-117-20	TPH-Dx, TOC
GMX-MW4-6-7.5	0807-117-21	TPH-Dx, Metals, TOC
GMX-MW4-12-13.5	0807-117-22	--
GMX-S15-0-1	0807-118-01	--
GMX-S15-2-4	0807-118-02	TPH-G/BTEX, TPH-Dx, Metals, TOC

Sample ID	Laboratory Sample ID	Requested Analyses
GMX-S15-4-6	0807-118-03	TPH-Dx, TOC
GMX-S14-0-1	0807-118-04	--
GMX-S14-2-4	0807-118-05	TPH-G/BTEX, TPH-Dx, Metals, TOC
GMX-S14-4-6	0807-118-06	TPH-Dx, TOC
GMX-S13-0-1	0807-118-07	--
GMX-S13-2-4	0807-118-08	TPH-G/BTEX, TPH-Dx, PAHs, Metals, TOC
GMX-S13-4-6	0807-118-09	TPH-Dx, TOC
GMX-S12-0-1	0807-118-10	--
GMX-S12-2-4	0807-118-11	TPH-G/BTEX, TPH-Dx, TOC
GMX-S12-4-6	0807-118-12	--
GMX-S1-0-1	0807-118-13	--
GMX-S1-2-4	0807-118-14	TPH-Dx, Metals, TOC
GMX-S1-4-6	0807-118-15	--
GMX-S2-0-1	0807-118-16	--
GMX-S2-2-4	0807-118-17	TPH-Dx, Metals, TOC
GMX-S2-4-6	0807-118-18	--
GMX-S3-0-1	0807-118-19	--
GMX-S3-2-4	0807-118-20	TPH-Dx, Metals, TOC
GMX-S3-4-6	0807-118-21	--
GMX-S4-0-1	0807-118-22	--
GMX-S4-2-4	0807-118-23	TPH-G/BTEX, TPH-Dx, TOC
GMX-S4-4-6	0807-118-24	--
GMX-S5-0-1	0807-118-25	--
GMX-S5-2-4	0807-118-26	TPH-G/BTEX, TPH-Dx, TOC
GMX-S5-4-6	0807-118-27	--
GMX-S32-4-6	0807-129-01	TPH-G/BTEX, TPH-Dx, Metals, TOC
GMX-S33-4-6	0807-129-02	TPH-G/BTEX, TPH-Dx, Metals, TOC
GMX-S8-0-1	0807-129-03	--
GMX-S8-2-4	0807-129-04	TPH-G/BTEX, TPH-Dx, TOC
GMX-S8-4-6	0807-129-05	--
GMX-MW1-0-1.5	0807-129-06	--
GMX-MW1-4.5-6.5	0807-129-07	TPH-Dx, PCBs, Metals, TOC
GMX-MW1-4.5-6.5	1077704001	Dioxins/Furans

Sample ID	Laboratory Sample ID	Requested Analyses
GMX-MW1-12-13.5	0807-129-08	--
GMX-MW3-0-1.5	0807-129-09	--
GMX-MW3-1.5-3	0807-129-10	TPH-G/BTEX, TPH-Dx, TOC
GMX-MW3-6-7.5	0807-129-11	TPH-G/BTEX, TPH-Dx, PAHs, PCBs, Metals, TOC, VPH/EPH
GMX-MW3-12-12.2	0807-129-12	TPH-Dx, TOC
GMX-MW3-16.5-17	0807-129-13	TPH-Dx, TOC
GMX-MW2-1-3	0807-129-14	--
GMX-MW2-7-9	0807-129-15	TPH-Dx, Metals, TOC
GMX-MW2-12-12.5	0807-129-16	--

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the *Draft Final Quality Assurance Project Plan (QAPP)*, Attachment A2 of Appendix A of the *Draft Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP)* for the Former Custom Plywood Mill, Anacortes, Washington, June 2008. The most current control limits provided by the laboratory were used to evaluate the quality control data.

Hold times, method/trip blanks, surrogate recoveries, laboratory control samples, matrix spike/matrix spike duplicates, field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA documents *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, October 1999 and *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review*, October 2004.

Samples were received by OnSite between July 15 and 17, 2008. There were no discrepancies noted at the time of sample intake with the exception of some jars that had caps that were labeled differently from the side labels. Sample numbers were confirmed in the office and phoned in to the laboratory. It should be noted that proper sample nomenclature was not used for this event (i.e. samples did not have the date incorporated); field staff will be made aware of this deficiency to improve in the future.

ORGANIC ANALYSES

Samples were analyzed for the constituents identified in the introduction to this memorandum. Laboratory data were evaluated for the following parameters.

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Preservation and Holding Times – Acceptable except as noted:

TPH-Dx by Ecology Method NWTPH-Dx, VPH by Ecology Methods WA VPH: Several soil samples in SDGs 0807-100, 0807-101, 0807-117, and 0807-118 were analyzed approximately 1 to 3 days outside of the 14-day holding time. These include samples GMX-S19-0-1, GMX-S29-0-1, GMX-S17-0-1, GMX-S25-0-1, GMX-S20-0-1, GMX-MW4-0-1.5, GMX-S9-2-4, GMX-S15-4-6, GMX-S14-4-6, GMX-S13-4-6, and GMX-MW3-6-7.5. Non-detections and detections for these samples were qualified as estimated “UJ” and “J,” respectively.

Dioxins/Furans by EPA Method 8290: The sample submitted to Pace (subcontracted by Onsite) for dioxin/furan analysis was received by Pace at 17.0° C, outside of the recommended temperature range of 0-6° C. The dioxin/furan results were flagged as estimated with a “J” or “UJ” as a result of the temperature exceedance.

Blanks – Acceptable except as noted:

SVOCs by EPA Method 8270D-SIM: The method blank associated with SDG 0807-101 contained 1,2-diphenylhydrazine at a concentration of 0.051 mg/kg. 1,2-Diphenylhydrazine was not detected in the associated samples; sample results were not qualified.

An equipment rinsate blank was not included in the any of these SDGs. The project required frequency is one per sampling event.

Surrogates/Internal Standards – Acceptable except as noted:

TPH-Dx by Ecology Method NWTPH-Dx: According to the lab, surrogate recovery was not available for soil sample GMX-S10-2-4 in SDG 0807-101, soil samples GMX-S7-2-4, GMX-S7-4-6, and GMX-S26-4-6 in SDG 0807-117, soil samples GMX-S15-2-4, GMX-S14-2-4, GMX-S13-2-4, GMX-S14-4-6, and GMX-S13-4-6 in SDG 0807-118, or soil samples GMX-MW3-1.5-3 and GMX-MW3-6-7.5 in SDG 0807-129, due to their necessary dilution. Sample results were evaluated based on other QC measures since surrogate results were unavailable; results were not qualified based on the lack of surrogate recovery data.

TPH-G/BTEX by Ecology Method NWTPH-Gx/EPA Method 8021B: Due to sample matrix effects, the fluorobenzene surrogate recovery was outside of control limits for soil samples GMX-S28-2-4 and GMX-S21-2-4 in SDG 0807-100, soil samples GMX-S11-2-4, GMX-S6-2-4, GMX-S7-2-4, and GMX-S20-2-4 in SDG 0807-117, soil samples GMX-S14-2-4, GMX-S13-2-4, GMX-S12-2-4, and GMX-S4-2-4 in SDG 0807-118, and soil sample GMX-MW3-6-7.5 in SDG 0807-129 ranging between 24% and 51%. Due to sample matrix effects, the fluorobenzene surrogate recovery was outside of control limits in the lab duplicate and MS/MSD for soil sample GMX-S11-2-4 in SDG 0807-117,

ranging between 49% and 51%. As a result, detected VOCs results for these samples are qualified as estimated "J" and non-detects are qualified as estimated "UJ."

VPH by Ecology Method WA VPH: The fluorobenzene surrogate recoveries were 54% and 38%, respectively, for samples GMX-S9-2-4 in SDG 0807-117 and GMX-MW3-6-7.5 in SDG 0807-129, below the control limits of 60-129%. All results are considered estimates and are flagged "UJ" or "J" as a result of the low surrogate recovery. Due to sample matrix effects, the fluorobenzene surrogate recovery was also outside of control limits in the MS/MSD for soil sample GMX-S11-2-4 in SDG 0807-117.

VOCs by EPA Method 8260B: The 4-bromofluorobenzene surrogate recovery (65%) was below the control limits (70-130%) for sample GMX-S6-2-4 in SDG 0807-117. All results for sample GMX-S6-2-4, including non-detects, are considered estimates and are flagged "UJ" or "J."

SVOCs by EPA Method 8270D-SIM: The 2,4,6-tribromophenol surrogate recovery was 12%, below the control limits of 37 to 127%, for sample GMX-S16-2-4 in SDG 0807-101. The terphenyl-d14 surrogate recovery for samples GMX-S11-2-4 and GMX-S9-2-4 in SDG 0807-117 were 47% and 42%, below the control limit of 48-111%. As a result, detected results for these samples are qualified as estimated "J" and non-detects are qualified as estimated "UJ."

Laboratory Control Sample/Laboratory Control Sample Duplicates (LCS/LCSD) – Acceptable except as noted:

LCS/LCSDs are not available for TPH-G, TPH-D, or PCBs results. These results are evaluated based on other QC measures including duplicates and MS/MSDs.

SVOCs by EPA Method 8270D-SIM: The RPD for pentachlorophenol in the LCS/LCSD associated with SDG 0807-117 was 40%, above the laboratory control limit of 30%. Since both individual recoveries were within the control limits and RPDs for all other SVOCs were also within control limits, data was not qualified based on this control limit exceedance.

Matrix Spike/Matrix Spike Duplicates (MS/MSD) – Acceptable except as noted:

MS/MSDs are not available for VOCs, TPH-D, or PAH results. These results are evaluated based on other QC measures including duplicates and LCS/LCSDs. The project required frequency of one per sampling event or one per 20 samples was not met for these analyte groups.

SVOCs by EPA Method 8270D-SIM: The MS and MSD recoveries for 2,4-dinitrotoluene in the MS/MSD performed on sample GMX-S9-2-4 in SDG 0807-117 were below the lower control limit (39%) at 27% and 21%, respectively. Additionally, the RPDs for 2,4-

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dinitrotoluene and acenaphthene were above their control limit at 28% and 32%, respectively. The holding time had expired and the sample could not be reanalyzed. Since all other MS/MSD recoveries and RPDs were within control limits, data was not qualified based on this control limit exceedance.

Duplicates – Acceptable except as noted:

No groundwater field duplicates were submitted during this sampling event. The project frequency requirement of one field duplicate for every groundwater sampling event was not achieved. However, it should be noted that only one groundwater sample was collected during this event.

Reporting Limits – Acceptable except as noted:

BTEX by EPA Method 8021B: The MTCA Method A cleanup level for benzene of 0.030 mg/kg was not achievable for several soil samples due to the high moisture content of the samples. Not enough soil sample was placed in the vials during field sampling. Field staff will be made aware that for very moist soil, more than 5 grams needs to be placed in the VOA during sampling.

TPH-G by WA NWTPH-Gx: The 5 mg/kg reporting limit for TPH-gas specified in the QAPP was not achieved for samples in SDG 0807-100 with reporting limits ranging from 5.5 to 34 mg/kg for non-detects, 5.8 to 25 mg/kg for non-detects in SDG 0807-129, 5.7 to 53 mg/kg for non-detects in SDG 0807-117, 11 to 18 mg/kg for non-detects in SDG 0807-101, and 5.2 to 50 mg/kg for non-detects in SDG 0807-118. The 100 ug/L reporting limit for TPH-gas specified in the QAPP was not achieved for water sample GMX-S9-W in SDG 0807-117, which was non-detect with a reporting limit of 400 ug/L.

TPH-Dx by Ecology Method NWTPH-Dx: The 25 mg/kg reporting limit for TPH-diesel specified in the QAPP was not achieved for samples in SDG 0807-100 with reporting limits ranging from 29 to 140 mg/kg for non-detects, 29 to 47 mg/kg for non-detects in SDG 0807-129, 30 to 5100 mg/kg for non-detects in SDG 0807-117, 28 to 2400 mg/kg for non-detects in SDG 0807-101, and 31 to 4600 mg/kg for non-detects in SDG 0807-118.

PAHs by EPA Method 8270D/SIM: The reporting limits for some PAHs were elevated to 0.18 to 0.20 mg/kg due to interference present in the samples GMX-S13-2-4 in SDG 0807-118 and GMX-MW3-6-7.5 in SDG 0807-129. These are above the 0.033 mg/kg reporting limit specified in the QAPP.

PCBs by EPA 8082: The 0.05 mg/kg reporting limit for PCBs specified in the QAPP was not achieved for all samples in SDG 0807-100 with reporting limits ranging from 0.033 to 0.12 mg/kg for non-detects and 0.034 to 0.33 mg/kg for non-detects in SDG 0807-101.

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Dioxins by EPA 8290: The concentrations of 1,2,3,4,7,8-HxCDF and 1,2,3,6,7,8-HxCDF were reported as EMPCs (estimated maximum possible concentration), indicating that all the required criteria were not met for the laboratory to unambiguously report these compounds as furans. The 1,2,3,4,7,8-HxCDF and 1,2,3,6,7,8-HxCDF concentrations in sample GMX-MW1-4.5-6.5 were qualified as non-detected at flagged with a “U”.

Other -

Internal Standard 1,4-dichlorobenzene-d4 does not meet acceptance criteria for soil samples GMX-S17-2-4 in SDG 0807-101 and GMX-S6-2-4 in SDG 0807-117, due to sample matrix effects. The samples were reanalyzed with similar results. Associated results were qualified as estimated and flagged “J” for detected constituents or “UJ” for non-detects.

INORGANIC ANALYSES

Samples were analyzed for the constituents identified in the introduction to this memorandum. Laboratory data were evaluated for the following parameters.

Preservation and Holding Times – Acceptable

Blanks – Acceptable, except as noted.

An equipment rinsate blank was not included in the any of these SDGs. The project required frequency is one per sampling event.

MS/MSD – Acceptable

Laboratory Control Samples – Acceptable

LCS/LCSDs are not available for metals results. These results are evaluated based on other QC measures including duplicates and MS/MSDs.

Duplicates – Acceptable except as noted:

No groundwater field duplicates were submitted during this sampling event. The project frequency requirement of one field duplicate for every groundwater sampling event was not achieved. However, it should be noted that only one groundwater sample was collected during this event.

Metals by EPA 6010B/6020/7471A: The lab duplicate RPD for mercury in sample GMX-S1-2-4 in SDG 0807-118 was above the control limit (20%) at 28%. The sample was re-extracted and re-analyzed with similar results. The associated mercury result was flagged with a “J” as estimated. The lab duplicate RPD for selenium in sample GMX-

S31-4-6 in SDG 0807-117 was above the control limit (20%) at 78%. The associated selenium result was flagged with a “J” as estimated.

Reporting Limits – Acceptable except as noted:

Metals by EPA 6010B/6020/7471A: The reporting limit for selenium was elevated to 7 ug/L due to interference present in sample GMX-S9-W in SDG 0807-117. This is above the 5.6 ug/L reporting limit specified in the QAPP. The reporting limits for several metals were also slightly elevated above the QAPP specified reporting limits in samples in SDG 0807-100, 0807-129, 0807-117, 0807-101, and 0807-118.

Other:

The total metals water sample GMX-S9-W was allowed to settle and decanted prior to analysis.

OVERALL ASSESSMENT OF DATA

The completeness of SDGs 0807-100, 0807-101, 0807-117, 0807-118, and 0807-129 is 100%. The usefulness of this data is based on EPA guidance documents listed in the introduction to this report. Few problems were identified and analytical performance was generally within specified limits. The data meet the project’s data quality objectives.

Sample ID	Qualified Analyte	Qualified Result	Qualifier Reason
GMX-S27-0-1	none		
GMX-S27-2-4	none		
GMX-S27-4-6	TOC	4.83 J	analyzed outside hold time
GMX-S18-0-1	none		
GMX-S18-2-4	none		
GMX-S18-4-6	TOC	14.2 J	analyzed outside hold time
GMX-S19-0-1	TPH-D TPH-Oil TOC	<85 J 800 J 1.95 J	analyzed outside hold time
GMX-S19-2-4	none		
GMX-S19-4-6	none		
GMX-S28-0-1	none		
GMX-S28-2-4	VOCs – nondetects VOCs - detects	UJ mg/kg J mg/kg	Low surrogate recovery
GMX-S28-4-6	TOC	40.8 J	analyzed outside hold time
GMX-S29-0-1	TPH-D TPH-Oil TOC	<39 J 93 J 11.8 J	analyzed outside hold time
GMX-S29-2-4	none		
GMX-S29-4-6	none		

Sample ID	Qualified Analyte	Qualified Result	Qualifier Reason
GMX-S21-0-1	none		
GMX-S21-2-4	VOCs – nondetects VOCs - detects	UJ mg/kg J mg/kg	Low surrogate recovery
GMX-S21-4-6	TOC	21.8 J	analyzed outside hold time
GMX-S22-0-1	none		
GMX-S22-2-4	none		
GMX-S22-4-6	TOC	2.77 J	analyzed outside hold time
GMX-S23-0-1	TPH-D TPH-Oil TOC	<130 J 3900 J 6.90 J	analyzed outside hold time
GMX-S23-2-4	none		
GMX-S23-4-6	none		
GMX-S30-0-1	none		
GMX-S30-2-4	1,2-diphenylhydrazine	<0.22 U mg/kg	method blank detection
GMX-S30-4-6	TOC	9.11 J	analyzed outside hold time
GMX-S16-0-1	none		
GMX-S16-2-4	SVOCs – nondetects SVOCs - detects	UJ mg/kg J mg/kg	Low surrogate recovery
GMX-S16-4-6	TOC	23.6 J	analyzed outside hold time
GMX-S17-0-1	TPH-D TPH-Oil TOC	<180 J 670 J 0.532 J	analyzed outside hold time
GMX-S17-2-4	VOCs – nondetects VOCs - detects	UJ mg/kg J mg/kg	Internal Standard out of control
GMX-S17-4-6	none		
GMX-S24-0-1	none		
GMX-S24-2-4	none		
GMX-S24-4-6	TOC	43.9 J	analyzed outside hold time
GMX-S25-0-1	TPH-D TPH-Oil TOC	<33 J 610 J 17.1 J	analyzed outside hold time
GMX-S25-2-4	none		
GMX-S25-4-6	none		
GMX-S10-0-1	none		
GMX-S10-2-4	none		
GMX-S10-4-6	TOC	35.1 J	analyzed outside hold time
GMX-S26-0-1	none		
GMX-S26-2-4	none		
GMX-S26-4-6	TOC	1.68 J	Analyzed outside of holding time
GMX-S11-0-1	none		

Sample ID	Qualified Analyte	Qualified Result	Qualifier Reason
GMX-S11-2-4	VOCs – nondetects VOCs – detects SVOCs – nondetects SVOCs - detects	UJ mg/kg J mg/kg UJ mg/kg J mg/kg	Low surrogate recovery
GMX-S6-0-1	none		
GMX-S6-2-4	VOCs – nondetects VOCs - detects	UJ mg/kg J mg/kg	Internal Standard out of control/low surrogate recovery
GMX-S6-4-6	TOC	26.9 J	Analyzed outside of holding time
GMX-S7-0-1	none		
GMX-S7-2-4	VOCs – nondetects VOCs - detects	UJ mg/kg J mg/kg	Low surrogate recovery
GMX-S7-4-6	TOC	22.8 J	Analyzed outside of holding time
GMX-S20-0-1	TPH-D TPH-Oil TOC	<33 UJ <67 UJ 8.14 J	analyzed outside hold time
GMX-S20-2-4	VOCs – nondetects VOCs – detects	UJ mg/kg J mg/kg	Low surrogate recovery
GMX-S20-4-6	None		
GMX-S9-0-1	None		
GMX-S9-2-4	VPH – nondetects VPH – detects SVOCs – nondetects SVOCs - detects	UJ mg/kg J mg/kg UJ mg/kg J mg/kg	Analyzed outside hold time Low surrogate recovery
GMX-S9-4-6	TOC	27.3 J	Analyzed outside of holding time
GMX-S9-W	none		
GMX-S31-4-6	selenium	1.0 J mg/kg	high lab duplicate RPD
GMX-MW4-0-1.5	TPH-D TPH-Oil TOC	<32 UJ 180 J 5.18 J	analyzed outside hold time
GMX-MW4-6-7.5	none		
GMX-MW4-12-13.5	none		
GMX-S15-0-1	none		
GMX-S15-2-4	none		
GMX-S15-4-6	TPH-D TPH-Oil TOC	<1400 UJ 22000 J 27.6 J	analyzed outside hold time
GMX-S14-0-1	none		
GMX-S14-2-4	VOCs – nondetects VOCs - detects	UJ mg/kg J mg/kg	Low surrogate recovery

Sample ID	Qualified Analyte	Qualified Result	Qualifier Reason
GMX-S14-4-6	TPH-D TPH-Oil TOC	<1300 UJ 29000 J 23.3 J	analyzed outside hold time
GMX-S13-0-1	none		
GMX-S13-2-4	VOCs – nondetects VOCs - detects	UJ mg/kg J mg/kg	Low surrogate recovery
GMX-S13-4-6	TPH-D TPH-Oil TOC	<4600 UJ 96000 J 46.2 J	analyzed outside hold time
GMX-S12-0-1	none		
GMX-S12-2-4	VOCs – nondetects VOCs - detects	UJ mg/kg J mg/kg	Low surrogate recovery
GMX-S12-4-6	none		
GMX-S1-0-1	none		
GMX-S1-2-4	mercury	0.11 J	high lab duplicate RPD
GMX-S1-4-6	none		
GMX-S2-0-1	none		
GMX-S2-2-4	none		
GMX-S2-4-6	none		
GMX-S3-0-1	none		
GMX-S3-2-4	none		
GMX-S3-4-6	none		
GMX-S4-0-1	none		
GMX-S4-2-4	VOCs – nondetects VOCs - detects	UJ mg/kg J mg/kg	Low surrogate recovery
GMX-S4-4-6	none		
GMX-S5-0-1	none		
GMX-S5-2-4	none		
GMX-S5-4-6	none		
GMX-S32-4-6	none		
GMX-S33-4-6	none		
GMX-S8-0-1	none		
GMX-S8-2-4	none		
GMX-S8-4-6	none		
GMX-MW1-0-1.5	none		
GMX-MW1-4.5-6.5	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF all other dioxin/furan detections all other dioxin/ furan non-detections	11.0 U 5.0 U J UJ	reported as EMPC by laboratory temperature exceedance temperature exceedance



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Sample ID	Qualified Analyte	Qualified Result	Qualifier Reason
GMX-MW1-12-13.5	none		
GMX-MW3-0-1.5	none		
GMX-MW3-1.5-3	none		
GMX-MW3-6-7.5	VPH – nondetects VPH - detects	UJ mg/kg J mg/kg	analyzed outside hold time
GMX-MW3-12-12.2	TOC	0.238 J	Analyzed outside of holding time
GMX-MW3-16.5-17	TOC	13.3 J	Analyzed outside of holding time
GMX-MW2-1-3	none		
GMX-MW2-7-9	none		
GMX-MW2-12-12.5	none		



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 8, 2008

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654
Laboratory Reference No. 0807-100

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on July 15, 2008.

Please note that the subcontracted data will follow in the final report.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB' followed by a flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

Case Narrative

Samples were collected on July 14, 2008 and received by the laboratory on July 15, 2008. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

The MTCA Method A clean-up level for Benzene of 0.030 mg/kg is not achievable for samples GMX-S28-2-4, GMX-S29-2-4, and GMX-S21-2-4 due to the high moisture content of the sample.

The surrogate recovery is outside of the control limits for samples GMX-S28-2-4 and GMX-S21-2-4 due to sample matrix effects. The sample matrices consist of wood debris and have a high moisture content.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

NWTPH-Dx Analysis

Samples GMX-S19-0-1 and GMX-S29-0-1 were extracted and analyzed outside of hold time as per the clients request.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

NWTPH-Gx/BTEX

Date Extracted: 7-17-08
 Date Analyzed: 7-17-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S27-2-4	GMX-S18-2-4
Lab ID:	07-100-02	07-100-05

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.020
Toluene	ND		0.082	ND		0.055
Ethyl Benzene	ND		0.082	ND		0.055
m,p-Xylene	ND		0.082	ND		0.055
o-Xylene	ND		0.082	ND		0.055
TPH-Gas	ND		8.2	ND		5.5
Surrogate Recovery:						
Fluorobenzene	81%			88%		

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

NWTPH-Gx/BTEX

Date Extracted: 7-17-08
 Date Analyzed: 7-17-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **GMX-S19-2-4** **GMX-S28-2-4**
 Lab ID: 07-100-08 07-100-11

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.068
Toluene	ND		0.058	0.96		0.34
Ethyl Benzene	ND		0.058	ND		0.34
m,p-Xylene	ND		0.058	ND		0.34
o-Xylene	ND		0.058	ND		0.34
TPH-Gas	ND		5.8	ND		34
Surrogate Recovery:						
Fluorobenzene	90%			49%	Q	

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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 Project: 10654

NWTPH-Gx/BTEX

Date Extracted: 7-17-08
 Date Analyzed: 7-17-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **GMX-S29-2-4** **GMX-S21-2-4**
 Lab ID: 07-100-14 07-100-17

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.045	ND		0.058
Toluene	ND		0.23	ND		0.29
Ethyl Benzene	ND		0.23	ND		0.29
m,p-Xylene	ND		0.23	ND		0.29
o-Xylene	ND		0.23	ND		0.29
TPH-Gas	ND		23	ND		29
Surrogate Recovery:						
Fluorobenzene	88%			43%	Q	

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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 Project: 10654

NWTPH-Gx/BTEX

Date Extracted: 7-17-08
 Date Analyzed: 7-17-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **GMX-S22-2-4** **GMX-S23-2-4**
 Lab ID: 07-100-20 07-100-23

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.020
Toluene	ND		0.056	ND		0.066
Ethyl Benzene	ND		0.056	ND		0.066
m,p-Xylene	ND		0.056	ND		0.066
o-Xylene	ND		0.056	ND		0.066
TPH-Gas	ND		5.6	ND		6.6
Surrogate Recovery:						
Fluorobenzene	75%			84%		

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-17-08
Date Analyzed: 7-17-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0717S1

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	93%		

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-17-08

Date Analyzed: 7-17-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID:	07-100-05 Original	07-100-05 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	88%	90%		

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-17-08

Date Analyzed: 7-17-08

Matrix: Soil
 Units: mg/kg (ppm)

Spike Level (ppm): 2.39

Lab ID:	07-100-05 MS	Percent Recovery	07-100-05 MSD	Percent Recovery	RPD	Flags
Benzene	2.42	101	2.29	96	6	
Toluene	2.47	103	2.33	97	6	
Ethyl Benzene	2.47	103	2.33	98	6	
m,p-Xylene	2.47	103	2.34	98	5	
o-Xylene	2.46	103	2.34	98	5	
Surrogate Recovery:						
Fluorobenzene	90%		91%			

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

NWTPH-Dx

Date Extracted: 7-21-08
 Date Analyzed: 7-21&22-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S27-2-4	GMX-S18-2-4	GMX-S19-2-4
Lab ID:	07-100-02	07-100-05	07-100-08
Diesel Range:	220	ND	ND
PQL:	35	140	29
Identification:	Diesel Range Organics	---	---
Lube Oil Range:	2300	1300	150
PQL:	70	290	57
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	103%	97%	87%
Flags:	Y	Y	Y

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

NWTPH-Dx

Date Extracted: 7-21-08
 Date Analyzed: 7-21,22&23-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S28-2-4	GMX-S29-2-4	GMX-S21-2-4
Lab ID:	07-100-11	07-100-14	07-100-17
Diesel Range:	450	ND	ND
PQL:	96	71	89
Identification:	Diesel Range Organics	---	---
Lube Oil Range:	3200	200	1500
PQL:	190	140	180
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	100%	62%	99%
Flags:	Y	Y	Y

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

NWTPH-Dx

Date Extracted: 7-21-08
 Date Analyzed: 7-22&23-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S22-2-4	GMX-S23-2-4
Lab ID:	07-100-20	07-100-23

Diesel Range:	ND	ND
PQL:	140	29
Identification:	---	---

Lube Oil Range:	1400	950
PQL:	280	58
Identification:	Lube Oil	Lube Oil

Surrogate Recovery		
o-Terphenyl:	101%	78%

Flags:	Y	Y
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Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-21-08
Date Analyzed: 7-21-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0721S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 85%

Flags: Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-21-08
Date Analyzed: 7-22-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-079-02 07-079-02 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 86% 76%

Flags: Y Y

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

NWTPH-Dx

Date Extracted: 7-25-08
 Date Analyzed: 7-25-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S27-4-6	GMX-S18-4-6	GMX-S28-4-6
Lab ID:	07-100-03	07-100-06	07-100-12
Diesel Range:	110	480	160
PQL:	31	170	150
Identification:	Diesel Fuel#2	Diesel Range Organics	Diesel Range Organics
Lube Oil Range:	570	5000	ND
PQL:	61	340	290
Identification:	Lube Oil	Lube Oil	---
Surrogate Recovery			
o-Terphenyl:	99%	111%	77%
Flags:	Y	Y	Y,M1

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

NWTPH-Dx

Date Extracted: 7-25-08
 Date Analyzed: 7-25-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S21-4-6	GMX-S22-4-6
Lab ID:	07-100-18	07-100-21

Diesel Range:	ND	ND
PQL:	100	29
Identification:	---	---

Lube Oil Range:	480	450
PQL:	200	59
Identification:	Lube Oil	Lube Oil

Surrogate Recovery		
o-Terphenyl:	82%	82%

Flags:	Y	Y
--------	---	---

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-25-08
Date Analyzed: 7-25-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0725S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 82%

Flags: Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-25-08
Date Analyzed: 7-25-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-123-02 07-123-02 DUP

Diesel Range: **ND** **ND**
PQL: 250 250

RPD: N/A

Surrogate Recovery
o-Terphenyl: 98% 102%

Flags: U1,Y U1,Y

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

NWTPH-Dx

Date Extracted: 8-1-08
 Date Analyzed: 8-3&4-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S19-0-1	GMX-S29-0-1	GMX-S23-0-1
Lab ID:	07-100-07	07-100-13	07-100-22
Diesel Range:	ND	ND	ND
PQL:	85	39	130
Identification:	---	---	---
Lube Oil Range:	800	93	3900
PQL:	57	77	270
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	131%	118%	82%
Flags:	U1,Y	Y	U1,Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-1-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0801S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 110%

Flags: Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-1-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-229-04 07-229-04 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 70% 91%

Flags: Y Y

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S27-2-4					
Laboratory ID:	07-100-02					
Naphthalene	ND	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
2-Methylnaphthalene	0.027	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
1-Methylnaphthalene	0.0094	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthylene	ND	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthene	ND	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Fluorene	ND	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Phenanthrene	0.023	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Anthracene	0.0096	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Fluoranthene	0.067	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Pyrene	0.076	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[a]anthracene	0.026	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Chrysene	0.079	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[b]fluoranthene	0.041	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[k]fluoranthene	0.010	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[a]pyrene	0.018	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Indeno(1,2,3-c,d)pyrene	0.011	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[g,h,i]perylene	0.013	0.0094	EPA 8270/SIM	7-25-08	7-27-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>75</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>84</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S18-2-4					
Laboratory ID:	07-100-05					
Naphthalene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
2-Methylnaphthalene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
1-Methylnaphthalene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthylene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Fluorene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Phenanthrene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Anthracene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Fluoranthene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Pyrene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[a]anthracene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Chrysene	0.0087	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[b]fluoranthene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[k]fluoranthene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[a]pyrene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Indeno(1,2,3-c,d)pyrene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Dibenz[a,h]anthracene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[g,h,i]perylene	ND	0.0077	EPA 8270/SIM	7-25-08	7-27-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>64</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>87</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S28-2-4					
Laboratory ID:	07-100-11					
Naphthalene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
2-Methylnaphthalene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
1-Methylnaphthalene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Acenaphthylene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Acenaphthene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Fluorene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Phenanthrene	0.042	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Anthracene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Fluoranthene	0.052	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Pyrene	0.073	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[a]anthracene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Chrysene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[b]fluoranthene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[k]fluoranthene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[a]pyrene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Indeno(1,2,3-c,d)pyrene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Dibenz[a,h]anthracene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[g,h,i]perylene	ND	0.026	EPA 8270/SIM	7-25-08	7-25-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>68</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>53</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>56</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S21-2-4					
Laboratory ID:	07-100-17					
Naphthalene	ND	0.024	EPA 8270/SIM	7-25-08	7-25-08	
2-Methylnaphthalene	ND	0.024	EPA 8270/SIM	7-25-08	7-25-08	
1-Methylnaphthalene	ND	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Acenaphthylene	ND	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Acenaphthene	ND	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Fluorene	ND	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Phenanthrene	0.081	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Anthracene	ND	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Fluoranthene	0.18	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Pyrene	0.22	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[a]anthracene	0.082	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Chrysene	0.14	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[b]fluoranthene	0.15	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[k]fluoranthene	0.043	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[a]pyrene	0.10	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Indeno(1,2,3-c,d)pyrene	0.090	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Dibenz[a,h]anthracene	0.031	0.024	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[g,h,i]perylene	0.11	0.024	EPA 8270/SIM	7-25-08	7-25-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>77</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>63</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
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 Laboratory Reference: 0807-100
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S22-2-4					
Laboratory ID:	07-100-20					
Naphthalene	ND	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
2-Methylnaphthalene	ND	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
1-Methylnaphthalene	ND	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthylene	ND	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthene	ND	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Fluorene	ND	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Phenanthrene	0.010	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Anthracene	ND	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Fluoranthene	0.019	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Pyrene	0.023	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[a]anthracene	0.0099	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Chrysene	0.027	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[b]fluoranthene	0.029	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[k]fluoranthene	ND	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[a]pyrene	0.015	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Indeno(1,2,3-c,d)pyrene	0.013	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Dibenz[a,h]anthracene	0.0087	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[g,h,i]perylene	0.034	0.0074	EPA 8270/SIM	7-25-08	7-27-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>72</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>91</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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 Project: 10654

**PAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0725S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Acenaphthene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Fluorene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Phenanthrene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Anthracene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Fluoranthene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Pyrene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Chrysene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>71</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>67</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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 Project: 10654

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0725S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0622	0.0651	0.0833	0.0833	75	78	45 - 94	5	24	
Acenaphthylene	0.0612	0.0647	0.0833	0.0833	73	78	51 - 104	6	25	
Acenaphthene	0.0641	0.0678	0.0833	0.0833	77	81	53 - 103	6	21	
Fluorene	0.0620	0.0658	0.0833	0.0833	74	79	57 - 107	6	19	
Phenanthrene	0.0639	0.0672	0.0833	0.0833	77	81	61 - 104	5	17	
Anthracene	0.0610	0.0642	0.0833	0.0833	73	77	58 - 102	5	14	
Fluoranthene	0.0717	0.0730	0.0833	0.0833	86	88	69 - 109	2	27	
Pyrene	0.0753	0.0762	0.0833	0.0833	90	91	71 - 114	1	27	
Benzo[a]anthracene	0.0649	0.0673	0.0833	0.0833	78	81	61 - 123	4	18	
Chrysene	0.0762	0.0786	0.0833	0.0833	91	94	66 - 124	3	19	
Benzo[b]fluoranthene	0.0685	0.0699	0.0833	0.0833	82	84	72 - 114	2	26	
Benzo[k]fluoranthene	0.0684	0.0715	0.0833	0.0833	82	86	70 - 115	4	17	
Benzo[a]pyrene	0.0623	0.0632	0.0833	0.0833	75	76	57 - 104	1	18	
Indeno(1,2,3-c,d)pyrene	0.0757	0.0779	0.0833	0.0833	91	94	63 - 121	3	20	
Dibenz[a,h]anthracene	0.0775	0.0803	0.0833	0.0833	93	96	62 - 125	4	15	
Benzo[g,h,i]perylene	0.0741	0.0762	0.0833	0.0833	89	91	64 - 117	3	21	
<i>Surrogate:</i>										
Nitrobenzene-d5					85	86	39 - 110			
2-Fluorobiphenyl					80	82	41 - 107			
Terphenyl-d14					93	95	54 - 126			

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S27-2-4					
Laboratory ID:	07-100-02					
Aroclor 1016	ND	0.042	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.042	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.042	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.042	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.042	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.042	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.042	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.042	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.042	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	56	35-127				
Client ID:	GMX-S18-2-4					
Laboratory ID:	07-100-05					
Aroclor 1016	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.034	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	57	35-127				
Client ID:	GMX-S19-2-4					
Laboratory ID:	07-100-08					
Aroclor 1016	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.034	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	75	35-127				

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 Samples Submitted: July 15, 2008
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 Project: 10654

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: GMX-S28-2-4						
Laboratory ID: 07-100-11						
Aroclor 1016	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.12	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>71</i>	<i>35-127</i>				
Client ID: GMX-S29-2-4						
Laboratory ID: 07-100-14						
Aroclor 1016	ND	0.086	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.086	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.086	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.086	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.086	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.086	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.086	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.086	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.086	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>43</i>	<i>35-127</i>				
Client ID: GMX-S21-2-4						
Laboratory ID: 07-100-17						
Aroclor 1016	ND	0.11	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.11	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.11	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.11	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.11	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.11	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.11	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.11	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.11	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>65</i>	<i>35-127</i>				

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 Project: 10654

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S22-2-4					
Laboratory ID:	07-100-20					
Aroclor 1016	ND	0.033	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.033	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.033	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.033	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.033	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.033	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.033	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.033	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.033	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	73	35-127				
Client ID:	GMX-S23-2-4					
Laboratory ID:	07-100-23					
Aroclor 1016	ND	0.035	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.035	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.035	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.035	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.035	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.035	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.035	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.035	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.035	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	56	35-127				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0718S1					
Aroclor 1016	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.030	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	96	35-127				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-126-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.457	0.412	0.500	0.500	ND	91	82	24-128	10	14	
<i>Surrogate:</i>											
<i>DCB</i>						92	85	35-127			

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22,24&27-08
 Date Analyzed: 7-23,24&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-100-02
 Client ID: **GMX-S27-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	7.0
Arsenic	6010B	ND	14
Beryllium	6010B	ND	0.70
Cadmium	6010B	ND	0.70
Chromium	6010B	38	0.70
Copper	6010B	44	1.4
Lead	6010B	26	7.0
Mercury	7471A	0.043	0.0070
Nickel	6010B	36	3.5
Selenium	6020	0.38	0.25
Silver	6010B	ND	0.70
Thallium	6020	0.097	0.070
Zinc	6010B	99	3.5

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-22&24-08

Date Analyzed: 7-23&24-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-100-05

Client ID: **GMX-S18-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.7
Arsenic	6010B	ND	11
Beryllium	6010B	ND	0.57
Cadmium	6010B	ND	0.57
Chromium	6010B	40	0.57
Copper	6010B	18	1.1
Lead	6010B	6.7	5.7
Mercury	7471A	0.021	0.0057
Nickel	6010B	29	2.9
Selenium	6020	0.41	0.20
Silver	6010B	ND	0.57
Thallium	6020	0.096	0.057
Zinc	6010B	56	2.9

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-22&24-08

Date Analyzed: 7-23&24-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-100-08

Client ID: **GMX-S19-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.7
Arsenic	6010B	ND	11
Beryllium	6010B	ND	0.57
Cadmium	6010B	ND	0.57
Chromium	6010B	29	0.57
Copper	6010B	60	1.1
Lead	6010B	11	5.7
Mercury	7471A	0.086	0.0057
Nickel	6010B	31	2.9
Selenium	6020	0.57	0.20
Silver	6010B	ND	0.57
Thallium	6020	ND	0.057
Zinc	6010B	77	2.9

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22&24-08

Date Analyzed: 7-23&24-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-100-11

Client ID: **GMX-S28-2-4**

Analyte	Method	Result	PQL
Antimony	6020	ND	4.8
Arsenic	6020	ND	9.6
Beryllium	6020	ND	0.38
Cadmium	6020	ND	0.96
Chromium	6010B	4.7	1.9
Copper	6010B	18	3.8
Lead	6020	7.9	4.8
Mercury	7471A	0.030	0.019
Nickel	6020	6.5	2.4
Selenium	6020	0.86	0.67
Silver	6020	ND	0.96
Thallium	6020	ND	0.19
Zinc	6010B	82	9.6

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22&24-08

Date Analyzed: 7-23&24-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-100-14

Client ID: **GMX-S29-2-4**

Analyte	Method	Result	PQL
Antimony	6020	5.4	3.6
Arsenic	6020	ND	9.3
Beryllium	6020	ND	0.43
Cadmium	6020	ND	0.71
Chromium	6010B	29	1.4
Copper	6010B	68	2.9
Lead	6020	18	7.1
Mercury	7471A	0.016	0.014
Nickel	6010B	33	7.1
Selenium	6020	1.3	0.50
Silver	6020	ND	0.71
Thallium	6020	ND	0.14
Zinc	6010B	85	7.1

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22,24&27-08
 Date Analyzed: 7-23,24&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-100-17
 Client ID: **GMX-S21-2-4**

Analyte	Method	Result	PQL
Antimony	6020	ND	4.9
Arsenic	6020	ND	8.9
Beryllium	6020	ND	0.36
Cadmium	6020	ND	0.89
Chromium	6010B	13	1.8
Copper	6010B	35	3.6
Lead	6010B	45	18
Mercury	7471A	0.051	0.018
Nickel	6010B	12	8.9
Selenium	6020	ND	0.63
Silver	6020	ND	0.89
Thallium	6020	ND	0.18
Zinc	6010B	71	8.9

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-100-20
 Client ID: **GMX-S22-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.6
Arsenic	6010B	ND	11
Beryllium	6010B	ND	0.56
Cadmium	6010B	ND	0.56
Chromium	6010B	26	0.56
Copper	6010B	42	1.1
Lead	6010B	13	5.6
Mercury	7471A	0.040	0.0056
Nickel	6010B	37	2.8
Selenium	6020	0.38	0.19
Silver	6010B	ND	0.56
Thallium	6020	ND	0.056
Zinc	6010B	79	2.8

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22&24-08

Date Analyzed: 7-23&24-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-100-23

Client ID: **GMX-S23-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.8
Arsenic	6010B	ND	12
Beryllium	6010B	ND	0.58
Cadmium	6010B	ND	0.58
Chromium	6010B	24	0.58
Copper	6010B	80	1.2
Lead	6010B	21	5.8
Mercury	7471A	0.031	0.0058
Nickel	6010B	34	2.9
Selenium	6020	0.38	0.20
Silver	6010B	ND	0.58
Thallium	6020	0.060	0.058
Zinc	6010B	84	2.9

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0722S2,MB0722S4&MB0724S2

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.0
Arsenic	6020	ND	1.3
Beryllium	6020	ND	0.025
Cadmium	6020	ND	0.25
Chromium	6010B	ND	0.50
Copper	6010B	ND	1.0
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.0050
Nickel	6020	ND	0.63
Selenium	6020	ND	0.18
Silver	6020	ND	0.25
Thallium	6020	ND	0.050
Zinc	6010B	ND	2.5

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

**TOTAL METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-27-08
Date Analyzed: 7-27-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0727S1

Analyte	Method	Result	PQL
Arsenic	6020	ND	1.3
Selenium	6020	ND	0.18

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-19

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	0.250	
Beryllium	ND	ND	NA	0.0050	
Cadmium	ND	ND	NA	0.050	
Chromium	29.6	27.3	8	0.50	
Copper	23.1	22.6	2	1.0	
Lead	6.77	ND	NA	5.0	
Mercury	0.0235	0.0262	NA	0.0050	
Nickel	27.5	27.2	1	0.13	
Selenium	0.829	0.363	78	0.18	C
Silver	ND	ND	NA	0.050	
Thallium	0.0670	0.0803	18	0.050	
Zinc	41.7	40.3	3	2.5	

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

**TOTAL METALS
EPA 6020
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	2.59	2.55	2	0.250	
Selenium	0.256	0.220	15	0.18	

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-19

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	84.8	85	87.4	87	3	
Arsenic	100	96.7	97	98.8	99	2	
Beryllium	50	47.6	95	48.0	96	1	
Cadmium	50	47.6	95	47.4	95	0	
Chromium	100	125	95	126	96	1	
Copper	50	72.3	98	73.1	100	1	
Lead	250	238	92	238	92	0	
Mercury	0.50	0.481	96	0.489	98	2	
Nickel	100	123	95	124	96	1	
Selenium	100	90.5	90	89.1	88	2	
Silver	25	20.9	84	20.8	83	1	
Thallium	50	47.0	94	46.5	93	1	
Zinc	100	137	95	139	97	2	

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-100
 Project: 10654

**TOTAL METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	97.5	95	97.3	95	0	
Selenium	100	102	102	101	100	1	

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-100
Project: 10654

% MOISTURE

Date Analyzed: 7-17&25-08

Client ID	Lab ID	% Moisture
GMX-S27-2-4	07-100-02	29
GMX-S27-4-6	07-100-03	18
GMX-S18-2-4	07-100-05	13
GMX-S18-4-6	07-100-06	27
GMX-S19-2-4	07-100-08	13
GMX-S28-2-4	07-100-11	74
GMX-S28-4-6	07-100-12	83
GMX-S29-2-4	07-100-14	65
GMX-S21-2-4	07-100-17	72
GMX-S21-4-6	07-100-18	75
GMX-S22-2-4	07-100-20	10
GMX-S22-4-6	07-100-21	15
GMX-S23-2-4	07-100-23	14



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody



Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: AMEC Geomatrix
 Project Number: 10634
 Project Name: Custom Plywood
 Project Manager: Kathleen Goodman
 Sampled by: Chris Brown / Nick Bacher

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Day 3 Day
 Standard (7 working days)
 (TPH analysis 5 working days)
 (other)

Laboratory Number: **07-100**

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-G/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total Metals	TCP Metals	HEM by 1664	Archive	TOC	Biomarker Screen	% Moisture	
1	GMX-S27-0-1	7/14/08	0940	Soil	2		X	X					X			X			X				
2	GMX-S27-2-4		0945		6		X	X					X			X			X				
3	GMX-S27-4-6		0950		2		X	X					X			X			X				
4	GMX-S18-0-1		1010		2		X	X					X			X			X				
5	GMX-S18-2-4		1015		6		X	X					X			X			X				
6	GMX-S18-4-6		1020		2		X	X					X			X			X				
7	GMX-S19-0-1		1055		2		X	X					X			X			X				
8	GMX-S19-2-4		1100		6		X	X					X			X			X				
9	GMX-S19-4-6		1105		2		X	X					X			X			X				
10	GMX-S28-0-1		1200		2		X	X					X			X			X				

Comments/Special Instructions:

① Special Rls, please check with David B.
 ② G/BTEX not preserved, must be extracted or frozen within 48hrs of sample time. ~~Added 7/15/08~~
 ③ Wood in samples Chromatograms with final report ~~Added 7/15/08~~

Relinquished by	Signature	Company	Date	Time
	<u>Nick Bacher</u>	AMEC GMX	7/15/08	1430
Received by	<u>K. Goodman</u>	"	"	1431
Relinquished by	<u>K. Goodman</u>	"	"	1625
Received by	<u>NB</u>	Q8E	7/15/08	1630
Relinquished by				
Received by				
Reviewed by/Date				



Chain of Custody

Company: AMEC Geomatix
 Project Number: 10654
 Project Name: Custom Plywood
 Project Manager: Kathleen Goodman
 Sampled by: Chris Brown / Nick Bacher

Turnaround Request (In working days)
 (Check One)
 Same Day 1 Day
 2 Day 3 Day
 Standard (7 working days)
 (TPH analysis 5 working days)
 (other)

Laboratory Number: 07-100
 Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GXBTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total Metals	Priority Metals	TCLP Metals	HEM by 1664	Archive	Biomarker Screen	% Moisture
11	GMX-S28-2-4	7/14/08	1205	Soil	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	GMX-S28-4-0		1210		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	GMX-S29-0-1		1310		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	GMX-S29-2-4		1315		6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	GMX-S29-4-6		1320		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	GMX-S29-0-1		1330		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	GMX-S29-2-4		1335		6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	GMX-S29-4-6		1340		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	GMX-S22-0-1		1355		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	GMX-S22-2-4		1400		5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions:
Mr Bacher	AMEC GMX	7/15/08	1430	<p>IMPORTANT See notes on page 1. Added 7/24/08. DB Added 7/29/08. DB Chromatograms with final report</p>
Kathleen Goodman	"	"	1431	
Kathleen Goodman	"	"	1625	
Chris Brown	AMEC	7/15/08	1650	
Reviewed by/Date				



OnSite Environmental Inc.

Phone: (425) 883-3881 • Fax: (425) 886-4603

Chain of Custody

Laboratory Number: 07-100

Requested Analysis

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)

(other)

(TPH analysis 5 working days)

Company: AMEZ Geomatrix

Project Number: 10654

Project Name: Custom Plywood

Project Manager: Kathleen Goodman

Sampled by: Chris Brown / Nick Bacher

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GxBTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Hericides by 8151A	Total Metals	Priority Metals	TCLP Metals	HEM by 1664	% Moisture	
21	GMX-S22-4-6	7/14/08	1415	Soil	2																
22	GMX-S23-0-1		1415		2																
23	GMX-S23-2-4		1420		6																
24	GMX-S23-4-6		1425		2																

Relinquished by	Received by	Relinquished by	Received by	Relinquished by	Received by	Reviewed by/Date
Nick Bacher	Kathleen Goodman	Chris Brown	Nick Bacher			

Comments/Special Instructions:

IMPORTANT

See notes on Page 1.

Added 7/24/08 DB

Chromatograms with final report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 8, 2008

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654
Laboratory Reference No. 0807-101

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on July 15, 2008.

Please note that the subcontracted data will follow in the final report.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Baumeister', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

Case Narrative

Page 1 of 2

Samples were collected on July 15, 2008 and received by the laboratory on July 15, 2008. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

The MTCA Method A clean-up level for Benzene of 0.030 mg/kg is not achievable for sample GMX-S24-2-4 due to the high moisture content of the sample.

The surrogate recovery is outside of the control limits for the sample that was used for the duplicate, matrix spike and matrix spike duplicate due to sample matrix effects. The sample matrix consists of wood debris and has high moisture content.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

NWTPH-Dx Analysis

Samples GMX-S17-0-1 and GMX-S25-0-1 were extracted and analyzed outside of hold time as per the clients request.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Volatiles EPA 8260B Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Internal Standard 1,4-Dichlorobenzene-d4 does not meet acceptance criteria for sample GMX-S17-2-4 due to sample matrix effects. The sample was reanalyzed with similar results. All results, including Practical Quantitation Limits, from Bromobenzene onward should be considered estimates.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

Case Narrative

Page 2 of 2

Semivolatiles EPA 8270D/SIM Analysis

Sample GMX-S16-2-4 had one surrogate recovery out of control limits. This is within allowance of our standard operation procedure as long as the recovery is above 10%.

For the QA batch extracted on July 25th, 1,2-Diphenylhydrazine was found in the sample and method blank, indicating laboratory contamination. Sample results have been flagged with a "B" data qualifier.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

NWTPH-Gx/BTEX

Date Extracted: 7-16&18-08
 Date Analyzed: 7-16&18-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S24-2-4	GMX-S25-2-4
Lab ID:	07-101-11	07-101-14

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.037	ND		0.023
Toluene	ND		0.18	ND		0.11
Ethyl Benzene	ND		0.18	ND		0.11
m,p-Xylene	ND		0.18	ND		0.11
o-Xylene	ND		0.18	ND		0.11
TPH-Gas	ND		18	ND		11
Surrogate Recovery:						
Fluorobenzene	63%			70%		

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

NWTPH-Gx/BTEX

Date Extracted: 7-18-08
Date Analyzed: 7-18-08

Matrix: Soil
Units: mg/kg (ppm)

Client ID: **GMX-S10-2-4**
Lab ID: 07-101-17

	Result	Flags	PQL
Benzene	ND		0.026
Toluene	ND		0.13
Ethyl Benzene	ND		0.13
m,p-Xylene	ND		0.13
o-Xylene	ND		0.13
TPH-Gas	ND		13
Surrogate Recovery: Fluorobenzene	87%		

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-16-08
Date Analyzed: 7-16-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0716S1

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	92%		

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-18-08
Date Analyzed: 7-18-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0718S3

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	86%		

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-16-08

Date Analyzed: 7-16-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID:	07-090-01 Original	07-090-01 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	73%	75%		

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-18-08

Date Analyzed: 7-18-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID:	07-117-05 Original	07-117-05 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	49%	49%		Q

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-16-08

Date Analyzed: 7-16-08

Matrix: Soil
 Units: mg/kg (ppm)

Spike Level (ppm): 1.93

Lab ID:	07-090-01 MS	Percent Recovery	07-090-01 MSD	Percent Recovery	RPD	Flags
Benzene	1.88	97	1.82	94	3	
Toluene	1.92	99	1.86	96	3	
Ethyl Benzene	1.92	100	1.86	96	3	
m,p-Xylene	1.93	100	1.87	97	4	
o-Xylene	1.94	100	1.87	97	4	

Surrogate Recovery:

Fluorobenzene 78% 79%

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-18-08

Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Spike Level (ppm): 4.51

Lab ID:	07-117-05 MS	Percent Recovery	07-117-05 MSD	Percent Recovery	RPD	Flags
Benzene	4.44	98	4.54	101	2	
Toluene	4.52	100	4.60	102	2	
Ethyl Benzene	4.54	101	4.62	102	2	
m,p-Xylene	4.55	101	4.61	102	1	
o-Xylene	4.55	101	4.62	103	2	
Surrogate Recovery:						
Fluorobenzene	50%		51%			Q

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

NWTPH-Dx

Date Extracted: 7-18-08
 Date Analyzed: 7-18&23-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S30-2-4	GMX-S16-2-4	GMX-S17-2-4
Lab ID:	07-101-02	07-101-05	07-101-08
Diesel Range:	1800	ND	ND
PQL:	96	140	28
Identification:	Diesel Range Organics	---	---
Lube Oil Range:	5500	1700	790
PQL:	190	270	57
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	82%	86%	91%
Flags:	Y	Y	Y

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

NWTPH-Dx

Date Extracted: 7-18-08
 Date Analyzed: 7-18&22-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S24-2-4	GMX-S25-2-4	GMX-S10-2-4
Lab ID:	07-101-11	07-101-14	07-101-17
Diesel Range:	620	ND	ND
PQL:	61	46	2400
Identification:	Diesel Range Organics	---	---
Lube Oil Range:	2100	320	34000
PQL:	120	91	4800
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	81%	88%	---
Flags:	Y	Y	Y,S

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-18-08
Date Analyzed: 7-18-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0718S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 132%

Flags: Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-18-08
Date Analyzed: 7-18-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-101-08 07-101-08 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 91% 109%

Flags: Y Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-18-08
Date Analyzed: 7-18-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-128-08 07-128-08 DUP

Diesel Range: **301** **217**
PQL: 130 130

RPD: 32

Surrogate Recovery
o-Terphenyl: 100% 84%

Flags: Y Y

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

NWTPH-Dx

Date Extracted: 7-25-08
 Date Analyzed: 7-25&28-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S30-4-6	GMX-S16-4-6	GMX-S24-4-6
Lab ID:	07-101-03	07-101-06	07-101-12
Diesel Range:	710	3700	11000
PQL:	39	420	110
Identification:	Diesel Range Organics	Diesel Range Organics	Diesel Fuel#2
Lube Oil Range:	2600	11000	1000
PQL:	77	830	230
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	92%	97%	98%
Flags:	Y,M1	Y	Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

NWTPH-Dx

Date Extracted: 7-25-08
Date Analyzed: 7-28-08

Matrix: Soil
Units: mg/kg (ppm)

Client ID: GMX-S10-4-6
Lab ID: 07-101-18

Diesel Range: **640**
PQL: 96

Identification: Diesel Range Organics

Lube Oil Range: **4900**
PQL: 190

Identification: Lube Oil

Surrogate Recovery
o-Terphenyl: 82%

Flags: Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-25-08
Date Analyzed: 7-25-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0725S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 82%

Flags: Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-25-08
Date Analyzed: 7-25-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-123-02 07-123-02 DUP

Diesel Range: **ND** **ND**
PQL: 250 250

RPD: N/A

Surrogate Recovery
o-Terphenyl: 98% 102%

Flags: U1,Y U1,Y

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

NWTPH-Dx

Date Extracted: 8-1-08
 Date Analyzed: 8-3-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S17-0-1	GMX-S25-0-1
Lab ID:	07-101-07	07-101-13

Diesel Range:	ND	ND
PQL:	180	33
Identification:	---	---

Lube Oil Range:	670	610
PQL:	360	65
Identification:	Lube Oil	Lube Oil

Surrogate Recovery		
o-Terphenyl:	100%	84%

Flags:	Y	Y
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Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-1-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0801S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 110%

Flags: Y

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-1-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-229-04 07-229-04 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 70% 91%

Flags: Y Y

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

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Date Extracted: 7-16-08
 Date Analyzed: 7-16-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 07-101-05
 Client ID: **GMX-S16-2-4**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0012
Chloromethane	ND		0.0062
Vinyl Chloride	ND		0.0012
Bromomethane	ND		0.0012
Chloroethane	ND		0.0062
Trichlorofluoromethane	ND		0.0012
1,1-Dichloroethene	ND		0.0012
Acetone	ND		0.0062
Iodomethane	ND		0.0062
Carbon Disulfide	ND		0.0012
Methylene Chloride	ND		0.0062
(trans) 1,2-Dichloroethene	ND		0.0012
Methyl t-Butyl Ether	ND		0.0012
1,1-Dichloroethane	ND		0.0012
Vinyl Acetate	ND		0.0062
2,2-Dichloropropane	ND		0.0012
(cis) 1,2-Dichloroethene	ND		0.0012
2-Butanone	ND		0.0062
Bromochloromethane	ND		0.0012
Chloroform	ND		0.0012
1,1,1-Trichloroethane	ND		0.0012
Carbon Tetrachloride	ND		0.0012
1,1-Dichloropropene	ND		0.0012
Benzene	ND		0.0012
1,2-Dichloroethane	ND		0.0012
Trichloroethene	ND		0.0012
1,2-Dichloropropane	ND		0.0012
Dibromomethane	ND		0.0012
Bromodichloromethane	ND		0.0012
2-Chloroethyl Vinyl Ether	ND		0.0062
(cis) 1,3-Dichloropropene	ND		0.0012
Methyl Isobutyl Ketone	ND		0.0062
Toluene	ND		0.0062
(trans) 1,3-Dichloropropene	ND		0.0012

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

VOLATILES by EPA 8260B

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Lab ID: 07-101-05
 Client ID: **GMX-S16-2-4**

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0012
Tetrachloroethene	ND		0.0012
1,3-Dichloropropane	ND		0.0012
2-Hexanone	ND		0.0062
Dibromochloromethane	ND		0.0012
1,2-Dibromoethane	ND		0.0012
Chlorobenzene	ND		0.0012
1,1,1,2-Tetrachloroethane	ND		0.0012
Ethylbenzene	ND		0.0012
m,p-Xylene	ND		0.0025
o-Xylene	ND		0.0012
Styrene	ND		0.0012
Bromoform	ND		0.0012
Isopropylbenzene	ND		0.0012
Bromobenzene	ND		0.0012
1,1,2,2-Tetrachloroethane	ND		0.0012
1,2,3-Trichloropropane	ND		0.0012
n-Propylbenzene	ND		0.0012
2-Chlorotoluene	ND		0.0012
4-Chlorotoluene	ND		0.0012
1,3,5-Trimethylbenzene	ND		0.0012
tert-Butylbenzene	ND		0.0012
1,2,4-Trimethylbenzene	ND		0.0012
sec-Butylbenzene	ND		0.0012
1,3-Dichlorobenzene	ND		0.0012
p-Isopropyltoluene	ND		0.0012
1,4-Dichlorobenzene	ND		0.0012
1,2-Dichlorobenzene	ND		0.0012
n-Butylbenzene	ND		0.0012
1,2-Dibromo-3-chloropropane	ND		0.0062
1,2,4-Trichlorobenzene	ND		0.0012
Hexachlorobutadiene	ND		0.0062
Naphthalene	ND		0.0012
1,2,3-Trichlorobenzene	ND		0.0012

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	95	70-118
Toluene-d8	90	70-121
4-Bromofluorobenzene	77	70-130

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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 Project: 10654

VOLATILES by EPA 8260B

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Date Extracted: 7-16-08
 Date Analyzed: 7-16-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 07-101-08
 Client ID: **GMX-S17-2-4**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0053
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0053
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	ND		0.0053
Iodomethane	ND		0.0053
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0053
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0053
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0053
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0053
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0053
Toluene	ND		0.0053
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: August 8, 2008
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VOLATILES by EPA 8260B

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Lab ID: 07-101-08
 Client ID: **GMX-S17-2-4**

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
2-Hexanone	ND		0.0053
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0021
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0053
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0053
Naphthalene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	94	70-118
Toluene-d8	81	70-121
4-Bromofluorobenzene	72	70-130

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

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Date Extracted: 7-16-08
 Date Analyzed: 7-16-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0716S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0050
Iodomethane	ND		0.0050
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0050
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0050
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0050
Toluene	ND		0.0050
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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**VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

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Lab ID: MB0716S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
2-Hexanone	ND		0.0050
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0020
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	95		70-118
Toluene-d8	85		70-121
4-Bromofluorobenzene	86		70-130

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 7-16-08
 Date Analyzed: 7-16-08
 Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0716S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0542	108	0.0562	112	70-130	
Benzene	0.0500	0.0528	106	0.0531	106	70-127	
Trichloroethene	0.0500	0.0471	94	0.0452	90	73-117	
Toluene	0.0500	0.0507	101	0.0472	94	78-115	
Chlorobenzene	0.0500	0.0456	91	0.0435	87	80-117	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	4	10	
Benzene	1	11	
Trichloroethene	4	13	
Toluene	7	12	
Chlorobenzene	5	10	

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
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Date Extracted: 7-23-08
 Date Analyzed: 7-23-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 07-101-05
 Client ID: **GMX-S16-2-4**

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.18
Pyridine	ND		0.18
Phenol	ND		0.18
Aniline	ND		0.18
bis(2-Chloroethyl)ether	ND		0.18
2-Chlorophenol	ND		0.18
1,3-Dichlorobenzene	ND		0.18
1,4-Dichlorobenzene	ND		0.18
Benzyl alcohol	ND		0.18
1,2-Dichlorobenzene	ND		0.18
2-Methylphenol (o-Cresol)	ND		0.18
bis(2-Chloroisopropyl)ether	ND		0.18
(3+4)-Methylphenol (m,p-Cresol)	ND		0.18
N-Nitroso-di-n-propylamine	ND		0.18
Hexachloroethane	ND		0.18
Nitrobenzene	ND		0.18
Isophorone	ND		0.18
2-Nitrophenol	ND		0.18
2,4-Dimethylphenol	ND		0.18
bis(2-Chloroethoxy)methane	ND		0.18
2,4-Dichlorophenol	ND		0.18
1,2,4-Trichlorobenzene	ND		0.18
Naphthalene	ND		0.015
4-Chloroaniline	ND		0.18
Hexachlorobutadiene	ND		0.18
4-Chloro-3-methylphenol	ND		0.18
2-Methylnaphthalene	ND		0.015
1-Methylnaphthalene	ND		0.015

Date of Report: August 8, 2008
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Lab ID: 07-101-05
 Client ID: **GMX-S16-2-4**

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.18
2,4,6-Trichlorophenol	ND		0.18
2,3-Dichloroaniline	ND		0.18
2,4,5-Trichlorophenol	ND		0.18
2-Chloronaphthalene	ND		0.18
2-Nitroaniline	ND		0.18
1,4-Dinitrobenzene	ND		0.18
Dimethylphthalate	ND		0.18
1,3-Dinitrobenzene	ND		0.18
2,6-Dinitrotoluene	ND		0.18
1,2-Dinitrobenzene	ND		0.18
Acenaphthylene	ND		0.015
3-Nitroaniline	ND		0.18
2,4-Dinitrophenol	ND		0.92
Acenaphthene	ND		0.015
4-Nitrophenol	ND		0.18
2,4-Dinitrotoluene	ND		0.18
Dibenzofuran	ND		0.18
2,3,4,6-Tetrachlorophenol	ND		0.18
2,3,5,6-Tetrachlorophenol	ND		0.18
Diethylphthalate	ND		0.18
4-Chlorophenyl-phenylether	ND		0.18
4-Nitroaniline	ND		0.18
Fluorene	ND		0.015
4,6-Dinitro-2-methylphenol	ND		0.92
N-Nitrosodiphenylamine	ND		0.18
1,2-Diphenylhydrazine	ND		0.18
4-Bromophenyl-phenylether	ND		0.18
Hexachlorobenzene	ND		0.18
Pentachlorophenol	ND		0.92
Phenanthrene	0.015		0.015
Anthracene	ND		0.015
Carbazole	ND		0.18
Di-n-butylphthalate	ND		0.18
Fluoranthene	0.021		0.015

Date of Report: August 8, 2008
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Lab ID: 07-101-05
Client ID: GMX-S16-2-4

Compound:	Results	Flags	PQL
Benzidine	ND		1.8
Pyrene	0.029		0.015
Butylbenzylphthalate	ND		0.18
bis-2-Ethylhexyladipate	ND		0.18
3,3'-Dichlorobenzidine	ND		0.18
Benzo[a]anthracene	ND		0.015
Chrysene	0.055		0.015
bis(2-Ethylhexyl)phthalate	ND		0.18
Di-n-octylphthalate	ND		0.18
Benzo[b]fluoranthene	0.066		0.015
Benzo[k]fluoranthene	ND		0.015
Benzo[a]pyrene	0.015		0.015
Indeno[1,2,3-cd]pyrene	ND		0.015
Dibenz[a,h]anthracene	ND		0.015
Benzo[g,h,i]perylene	0.021		0.015

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	46	26 - 91
Phenol-d6	60	34 - 100
Nitrobenzene-d5	67	24 - 107
2-Fluorobiphenyl	79	36 - 99
2,4,6-Tribromophenol	12	Q 37 - 127
Terphenyl-d14	75	48 - 111

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Date Extracted: 7-23-08
 Date Analyzed: 7-23-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0723S1

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.033
Pyridine	ND		0.033
Phenol	ND		0.033
Aniline	ND		0.033
bis(2-Chloroethyl)ether	ND		0.033
2-Chlorophenol	ND		0.033
1,3-Dichlorobenzene	ND		0.033
1,4-Dichlorobenzene	ND		0.033
Benzyl alcohol	ND		0.033
1,2-Dichlorobenzene	ND		0.033
2-Methylphenol (o-Cresol)	ND		0.033
bis(2-Chloroisopropyl)ether	ND		0.033
(3+4)-Methylphenol (m,p-Cresol)	ND		0.033
N-Nitroso-di-n-propylamine	ND		0.033
Hexachloroethane	ND		0.033
Nitrobenzene	ND		0.033
Isophorone	ND		0.033
2-Nitrophenol	ND		0.033
2,4-Dimethylphenol	ND		0.033
bis(2-Chloroethoxy)methane	ND		0.033
2,4-Dichlorophenol	ND		0.033
1,2,4-Trichlorobenzene	ND		0.033
Naphthalene	ND		0.0067
4-Chloroaniline	ND		0.033
Hexachlorobutadiene	ND		0.033
4-Chloro-3-methylphenol	ND		0.033
2-Methylnaphthalene	ND		0.0067
1-Methylnaphthalene	ND		0.0067

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Lab ID: MB0723S1

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.033
2,4,6-Trichlorophenol	ND		0.033
2,3-Dichloroaniline	ND		0.033
2,4,5-Trichlorophenol	ND		0.033
2-Chloronaphthalene	ND		0.033
2-Nitroaniline	ND		0.033
1,4-Dinitrobenzene	ND		0.033
Dimethylphthalate	ND		0.033
1,3-Dinitrobenzene	ND		0.033
2,6-Dinitrotoluene	ND		0.033
1,2-Dinitrobenzene	ND		0.033
Acenaphthylene	ND		0.0067
3-Nitroaniline	ND		0.033
2,4-Dinitrophenol	ND		0.17
Acenaphthene	ND		0.0067
4-Nitrophenol	ND		0.033
2,4-Dinitrotoluene	ND		0.033
Dibenzofuran	ND		0.033
2,3,4,6-Tetrachlorophenol	ND		0.033
2,3,5,6-Tetrachlorophenol	ND		0.033
Diethylphthalate	ND		0.033
4-Chlorophenyl-phenylether	ND		0.033
4-Nitroaniline	ND		0.033
Fluorene	ND		0.0067
4,6-Dinitro-2-methylphenol	ND		0.17
N-Nitrosodiphenylamine	ND		0.033
1,2-Diphenylhydrazine	ND		0.033
4-Bromophenyl-phenylether	ND		0.033
Hexachlorobenzene	ND		0.033
Pentachlorophenol	ND		0.17
Phenanthrene	ND		0.0067
Anthracene	ND		0.0067
Carbazole	ND		0.033
Di-n-butylphthalate	ND		0.033
Fluoranthene	ND		0.0067

Date of Report: August 8, 2008
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METHOD BLANK QUALITY CONTROL
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Lab ID: MB0723S1

Compound:	Results	Flags	PQL
Benzidine	ND		0.33
Pyrene	ND		0.0067
Butylbenzylphthalate	ND		0.033
bis-2-Ethylhexyladipate	ND		0.033
3,3'-Dichlorobenzidine	ND		0.033
Benzo[a]anthracene	ND		0.0067
Chrysene	ND		0.0067
bis(2-Ethylhexyl)phthalate	ND		0.033
Di-n-octylphthalate	ND		0.033
Benzo[b]fluoranthene	ND		0.0067
Benzo[k]fluoranthene	ND		0.0067
Benzo[a]pyrene	ND		0.0067
Indeno[1,2,3-cd]pyrene	ND		0.0067
Dibenz[a,h]anthracene	ND		0.0067
Benzo[g,h,i]perylene	ND		0.0067

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	61	26 - 91
Phenol-d6	67	34 - 100
Nitrobenzene-d5	67	24 - 107
2-Fluorobiphenyl	73	36 - 99
2,4,6-Tribromophenol	81	37 - 127
Terphenyl-d14	72	48 - 111

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Date Extracted: 7-23-08
 Date Analyzed: 7-23-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: SB0723S1

Compound:	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
Phenol	1.33	0.699	53	0.814	61	34-96	
2-Chlorophenol	1.33	0.703	53	0.827	62	30-100	
1,4-Dichlorobenzene	0.667	0.289	43	0.351	53	27-85	
N-Nitroso-di-n-propylamine	0.667	0.392	59	0.421	63	32-99	
1,2,4-Trichlorobenzene	0.667	0.338	51	0.398	60	30-85	
4-Chloro-3-methylphenol	1.33	0.946	71	1.06	79	45-105	
Acenaphthene	0.667	0.439	66	0.478	72	33-91	
2,4-Dinitrotoluene	0.667	0.501	75	0.545	82	41-122	
4-Nitrophenol	1.33	1.13	85	1.26	95	56-116	
Pentachlorophenol	1.33	1.29	97	1.39	105	44-130	
Pyrene	0.667	0.542	81	0.597	89	56-108	

	RPD	RPD Limits	Flags
Phenol	15	31	
2-Chlorophenol	16	36	
1,4-Dichlorobenzene	19	35	
N-Nitroso-di-n-propylamine	7	33	
1,2,4-Trichlorobenzene	16	31	
4-Chloro-3-methylphenol	11	22	
Acenaphthene	9	25	
2,4-Dinitrotoluene	8	30	
4-Nitrophenol	11	30	
Pentachlorophenol	7	30	
Pyrene	10	16	

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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 Project: 10654

SEMIVOLATILES by EPA 8270D/SIM
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Date Extracted: 7-25-08
 Date Analyzed: 7-25&27-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 07-101-02
 Client ID: **GMX-S30-2-4**

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.13
Pyridine	ND		0.13
Phenol	ND		0.13
Aniline	ND		0.13
bis(2-Chloroethyl)ether	ND		0.13
2-Chlorophenol	ND		0.13
1,3-Dichlorobenzene	ND		0.13
1,4-Dichlorobenzene	ND		0.13
Benzyl alcohol	ND		0.13
1,2-Dichlorobenzene	ND		0.13
2-Methylphenol (o-Cresol)	ND		0.13
bis(2-Chloroisopropyl)ether	ND		0.13
(3+4)-Methylphenol (m,p-Cresol)	ND		0.13
N-Nitroso-di-n-propylamine	ND		0.13
Hexachloroethane	ND		0.13
Nitrobenzene	ND		0.13
Isophorone	ND		0.13
2-Nitrophenol	ND		0.13
2,4-Dimethylphenol	ND		0.13
bis(2-Chloroethoxy)methane	ND		0.13
2,4-Dichlorophenol	ND		0.13
1,2,4-Trichlorobenzene	ND		0.13
Naphthalene	0.45		0.13
4-Chloroaniline	ND		0.13
Hexachlorobutadiene	ND		0.13
4-Chloro-3-methylphenol	ND		0.13
2-Methylnaphthalene	0.12		0.026
1-Methylnaphthalene	0.086		0.026

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
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Lab ID: 07-101-02
 Client ID: **GMX-S30-2-4**

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.13
2,4,6-Trichlorophenol	ND		0.13
2,3-Dichloroaniline	ND		0.13
2,4,5-Trichlorophenol	ND		0.13
2-Chloronaphthalene	ND		0.13
2-Nitroaniline	ND		0.13
1,4-Dinitrobenzene	ND		0.13
Dimethylphthalate	ND		0.13
1,3-Dinitrobenzene	ND		0.13
2,6-Dinitrotoluene	ND		0.13
1,2-Dinitrobenzene	ND		0.13
Acenaphthylene	0.78		0.13
3-Nitroaniline	ND		0.13
2,4-Dinitrophenol	ND		0.64
Acenaphthene	0.088		0.026
4-Nitrophenol	ND		0.13
2,4-Dinitrotoluene	ND		0.13
Dibenzofuran	0.23		0.13
2,3,4,6-Tetrachlorophenol	ND		0.13
2,3,5,6-Tetrachlorophenol	0.16		0.13
Diethylphthalate	ND		0.13
4-Chlorophenyl-phenylether	ND		0.13
4-Nitroaniline	ND		0.13
Fluorene	0.27		0.13
4,6-Dinitro-2-methylphenol	ND		0.64
N-Nitrosodiphenylamine	ND		0.13
1,2-Diphenylhydrazine	0.22	B	0.13
4-Bromophenyl-phenylether	ND		0.13
Hexachlorobenzene	ND		0.13
Pentachlorophenol	1.5		0.64
Phenanthrene	1.6		0.13
Anthracene	1.2		0.13
Carbazole	0.65		0.13
Di-n-butylphthalate	1.1		0.13
Fluoranthene	4.5		0.13

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Lab ID: 07-101-02
Client ID: GMX-S30-2-4

Compound:	Results	Flags	PQL
Benzidine	ND		1.3
Pyrene	5.6		0.13
Butylbenzylphthalate	ND		0.13
bis-2-Ethylhexyladipate	ND		0.13
3,3'-Dichlorobenzidine	ND		0.13
Benzo[a]anthracene	2.2		0.13
Chrysene	3.1		0.13
bis(2-Ethylhexyl)phthalate	1.2		0.13
Di-n-octylphthalate	ND		0.13
Benzo[b]fluoranthene	2.7		0.13
Benzo[k]fluoranthene	1.8		0.13
Benzo[a]pyrene	2.4		0.13
Indeno[1,2,3-cd]pyrene	1.5		0.13
Dibenz[a,h]anthracene	0.48		0.13
Benzo[g,h,i]perylene	1.6		0.13

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	55	26 - 91
Phenol-d6	72	34 - 100
Nitrobenzene-d5	72	24 - 107
2-Fluorobiphenyl	74	36 - 99
2,4,6-Tribromophenol	105	37 - 127
Terphenyl-d14	76	48 - 111

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Date Extracted: 7-25-08
 Date Analyzed: 7-25&27-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0725S1

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.033
Pyridine	ND		0.033
Phenol	ND		0.033
Aniline	ND		0.033
bis(2-Chloroethyl)ether	ND		0.033
2-Chlorophenol	ND		0.033
1,3-Dichlorobenzene	ND		0.033
1,4-Dichlorobenzene	ND		0.033
Benzyl alcohol	ND		0.033
1,2-Dichlorobenzene	ND		0.033
2-Methylphenol (o-Cresol)	ND		0.033
bis(2-Chloroisopropyl)ether	ND		0.033
(3+4)-Methylphenol (m,p-Cresol)	ND		0.033
N-Nitroso-di-n-propylamine	ND		0.033
Hexachloroethane	ND		0.033
Nitrobenzene	ND		0.033
Isophorone	ND		0.033
2-Nitrophenol	ND		0.033
2,4-Dimethylphenol	ND		0.033
bis(2-Chloroethoxy)methane	ND		0.033
2,4-Dichlorophenol	ND		0.033
1,2,4-Trichlorobenzene	ND		0.033
Naphthalene	ND		0.0067
4-Chloroaniline	ND		0.033
Hexachlorobutadiene	ND		0.033
4-Chloro-3-methylphenol	ND		0.033
2-Methylnaphthalene	ND		0.0067
1-Methylnaphthalene	ND		0.0067

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
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METHOD BLANK QUALITY CONTROL
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Lab ID: MB0725S1

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.033
2,4,6-Trichlorophenol	ND		0.033
2,3-Dichloroaniline	ND		0.033
2,4,5-Trichlorophenol	ND		0.033
2-Chloronaphthalene	ND		0.033
2-Nitroaniline	ND		0.033
1,4-Dinitrobenzene	ND		0.033
Dimethylphthalate	ND		0.033
1,3-Dinitrobenzene	ND		0.033
2,6-Dinitrotoluene	ND		0.033
1,2-Dinitrobenzene	ND		0.033
Acenaphthylene	ND		0.0067
3-Nitroaniline	ND		0.033
2,4-Dinitrophenol	ND		0.17
Acenaphthene	ND		0.0067
4-Nitrophenol	ND		0.033
2,4-Dinitrotoluene	ND		0.033
Dibenzofuran	ND		0.033
2,3,4,6-Tetrachlorophenol	ND		0.033
2,3,5,6-Tetrachlorophenol	ND		0.033
Diethylphthalate	ND		0.033
4-Chlorophenyl-phenylether	ND		0.033
4-Nitroaniline	ND		0.033
Fluorene	ND		0.0067
4,6-Dinitro-2-methylphenol	ND		0.17
N-Nitrosodiphenylamine	ND		0.033
1,2-Diphenylhydrazine	0.051	B	0.033
4-Bromophenyl-phenylether	ND		0.033
Hexachlorobenzene	ND		0.033
Pentachlorophenol	ND		0.17
Phenanthrene	ND		0.0067
Anthracene	ND		0.0067
Carbazole	ND		0.033
Di-n-butylphthalate	ND		0.033
Fluoranthene	ND		0.0067

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
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METHOD BLANK QUALITY CONTROL
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Lab ID: MB0725S1

Compound:	Results	Flags	PQL
Benzidine	ND		0.33
Pyrene	ND		0.0067
Butylbenzylphthalate	ND		0.033
bis-2-Ethylhexyladipate	ND		0.033
3,3'-Dichlorobenzidine	ND		0.033
Benzo[a]anthracene	ND		0.0067
Chrysene	ND		0.0067
bis(2-Ethylhexyl)phthalate	ND		0.033
Di-n-octylphthalate	ND		0.033
Benzo[b]fluoranthene	ND		0.0067
Benzo[k]fluoranthene	ND		0.0067
Benzo[a]pyrene	ND		0.0067
Indeno[1,2,3-cd]pyrene	ND		0.0067
Dibenz[a,h]anthracene	ND		0.0067
Benzo[g,h,i]perylene	ND		0.0067

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	42	26 - 91
Phenol-d6	50	34 - 100
Nitrobenzene-d5	49	24 - 107
2-Fluorobiphenyl	61	36 - 99
2,4,6-Tribromophenol	75	37 - 127
Terphenyl-d14	70	48 - 111

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Date Extracted: 7-25-08
 Date Analyzed: 7-25-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: SB0725S1

Compound:	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
Phenol	1.33	0.668	50	0.742	56	34-96	
2-Chlorophenol	1.33	0.650	49	0.774	58	30-100	
1,4-Dichlorobenzene	0.667	0.244	37	0.316	47	27-85	
N-Nitroso-di-n-propylamine	0.667	0.339	51	0.360	54	32-99	
1,2,4-Trichlorobenzene	0.667	0.284	43	0.345	52	30-85	
4-Chloro-3-methylphenol	1.33	0.900	68	0.903	68	45-105	
Acenaphthene	0.667	0.437	65	0.425	64	33-91	
2,4-Dinitrotoluene	0.667	0.569	85	0.587	88	41-122	
4-Nitrophenol	1.33	1.18	88	1.20	90	56-116	
Pentachlorophenol	1.33	1.28	96	1.28	96	44-130	
Pyrene	0.667	0.524	78	0.530	80	56-108	

	RPD	RPD Limits	Flags
Phenol	11	31	
2-Chlorophenol	18	36	
1,4-Dichlorobenzene	26	35	
N-Nitroso-di-n-propylamine	6	33	
1,2,4-Trichlorobenzene	20	31	
4-Chloro-3-methylphenol	0	22	
Acenaphthene	3	25	
2,4-Dinitrotoluene	3	30	
4-Nitrophenol	2	30	
Pentachlorophenol	0	30	
Pyrene	1	16	

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S24-2-4					
Laboratory ID:	07-101-11					
Naphthalene	0.018	0.016	EPA 8270/SIM	7-25-08	7-27-08	
2-Methylnaphthalene	ND	0.016	EPA 8270/SIM	7-25-08	7-27-08	
1-Methylnaphthalene	ND	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthylene	0.086	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthene	ND	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Fluorene	ND	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Phenanthrene	0.17	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Anthracene	0.056	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Fluoranthene	0.51	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Pyrene	0.59	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[a]anthracene	0.24	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Chrysene	0.43	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[b]fluoranthene	0.59	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[k]fluoranthene	0.18	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[a]pyrene	0.42	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Indeno(1,2,3-c,d)pyrene	0.53	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Dibenz[a,h]anthracene	0.12	0.016	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[g,h,i]perylene	0.75	0.016	EPA 8270/SIM	7-25-08	7-27-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>66</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>63</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>72</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S10-2-4					
Laboratory ID:	07-101-17					
Naphthalene	ND	0.013	EPA 8270/SIM	7-25-08	7-27-08	
2-Methylnaphthalene	ND	0.013	EPA 8270/SIM	7-25-08	7-27-08	
1-Methylnaphthalene	ND	0.013	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthylene	0.048	0.013	EPA 8270/SIM	7-25-08	7-27-08	
Acenaphthene	ND	0.013	EPA 8270/SIM	7-25-08	7-27-08	
Fluorene	ND	0.013	EPA 8270/SIM	7-25-08	7-27-08	
Phenanthrene	0.044	0.013	EPA 8270/SIM	7-25-08	7-27-08	
Anthracene	0.036	0.013	EPA 8270/SIM	7-25-08	7-27-08	
Fluoranthene	0.16	0.013	EPA 8270/SIM	7-25-08	7-27-08	
Pyrene	0.19	0.013	EPA 8270/SIM	7-25-08	7-27-08	
Benzo[a]anthracene	0.13	0.064	EPA 8270/SIM	7-25-08	7-28-08	
Chrysene	0.19	0.064	EPA 8270/SIM	7-25-08	7-28-08	
Benzo[b]fluoranthene	0.38	0.064	EPA 8270/SIM	7-25-08	7-28-08	
Benzo[k]fluoranthene	0.092	0.064	EPA 8270/SIM	7-25-08	7-28-08	
Benzo[a]pyrene	0.24	0.064	EPA 8270/SIM	7-25-08	7-28-08	
Indeno(1,2,3-c,d)pyrene	0.28	0.064	EPA 8270/SIM	7-25-08	7-28-08	
Dibenz[a,h]anthracene	ND	0.064	EPA 8270/SIM	7-25-08	7-28-08	
Benzo[g,h,i]perylene	0.44	0.064	EPA 8270/SIM	7-25-08	7-28-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>69</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>78</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**PAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0725S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Acenaphthene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Fluorene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Phenanthrene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Anthracene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Fluoranthene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Pyrene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Chrysene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	7-25-08	7-25-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>71</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>67</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0725S1									
Naphthalene	0.0622	0.0651	0.0833	0.0833	75	78	45 - 94	5	24	
Acenaphthylene	0.0612	0.0647	0.0833	0.0833	73	78	51 - 104	6	25	
Acenaphthene	0.0641	0.0678	0.0833	0.0833	77	81	53 - 103	6	21	
Fluorene	0.0620	0.0658	0.0833	0.0833	74	79	57 - 107	6	19	
Phenanthrene	0.0639	0.0672	0.0833	0.0833	77	81	61 - 104	5	17	
Anthracene	0.0610	0.0642	0.0833	0.0833	73	77	58 - 102	5	14	
Fluoranthene	0.0717	0.0730	0.0833	0.0833	86	88	69 - 109	2	27	
Pyrene	0.0753	0.0762	0.0833	0.0833	90	91	71 - 114	1	27	
Benzo[a]anthracene	0.0649	0.0673	0.0833	0.0833	78	81	61 - 123	4	18	
Chrysene	0.0762	0.0786	0.0833	0.0833	91	94	66 - 124	3	19	
Benzo[b]fluoranthene	0.0685	0.0699	0.0833	0.0833	82	84	72 - 114	2	26	
Benzo[k]fluoranthene	0.0684	0.0715	0.0833	0.0833	82	86	70 - 115	4	17	
Benzo[a]pyrene	0.0623	0.0632	0.0833	0.0833	75	76	57 - 104	1	18	
Indeno(1,2,3-c,d)pyrene	0.0757	0.0779	0.0833	0.0833	91	94	63 - 121	3	20	
Dibenz[a,h]anthracene	0.0775	0.0803	0.0833	0.0833	93	96	62 - 125	4	15	
Benzo[g,h,i]perylene	0.0741	0.0762	0.0833	0.0833	89	91	64 - 117	3	21	
<i>Surrogate:</i>										
Nitrobenzene-d5					85	86	39 - 110			
2-Fluorobiphenyl					80	82	41 - 107			
Terphenyl-d14					93	95	54 - 126			

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S16-4-6					
Laboratory ID:	07-101-06					
Naphthalene	0.94	0.022	EPA 8270/SIM	7-29-08	7-29-08	
2-Methylnaphthalene	0.26	0.022	EPA 8270/SIM	7-29-08	7-29-08	
1-Methylnaphthalene	0.13	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Acenaphthylene	0.51	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Acenaphthene	0.21	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Fluorene	0.22	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Phenanthrene	1.6	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Anthracene	1.1	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Fluoranthene	3.4	0.11	EPA 8270/SIM	7-29-08	7-30-08	
Pyrene	3.1	0.11	EPA 8270/SIM	7-29-08	7-30-08	
Benzo[a]anthracene	1.6	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Chrysene	2.5	0.11	EPA 8270/SIM	7-29-08	7-30-08	
Benzo[b]fluoranthene	2.6	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Benzo[k]fluoranthene	0.52	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Benzo[a]pyrene	1.4	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Indeno(1,2,3-c,d)pyrene	0.58	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Dibenz[a,h]anthracene	0.19	0.022	EPA 8270/SIM	7-29-08	7-29-08	
Benzo[g,h,i]perylene	0.63	0.022	EPA 8270/SIM	7-29-08	7-29-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>85</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>86</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**PAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0729S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Acenaphthene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Fluorene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Phenanthrene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Anthracene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Fluoranthene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Pyrene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Chrysene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	7-29-08	7-29-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>69</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>97</i>	<i>54 - 126</i>				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0729S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0612	0.0634	0.0833	0.0833	73	76	45 - 94	4	24	
Acenaphthylene	0.0664	0.0699	0.0833	0.0833	80	84	51 - 104	5	25	
Acenaphthene	0.0677	0.0710	0.0833	0.0833	81	85	53 - 103	5	21	
Fluorene	0.0694	0.0725	0.0833	0.0833	83	87	57 - 107	4	19	
Phenanthrene	0.0710	0.0736	0.0833	0.0833	85	88	61 - 104	4	17	
Anthracene	0.0671	0.0698	0.0833	0.0833	81	84	58 - 102	4	14	
Fluoranthene	0.0745	0.0772	0.0833	0.0833	89	93	69 - 109	4	27	
Pyrene	0.0773	0.0804	0.0833	0.0833	93	97	71 - 114	4	27	
Benzo[a]anthracene	0.0783	0.0793	0.0833	0.0833	94	95	61 - 123	1	18	
Chrysene	0.0811	0.0842	0.0833	0.0833	97	101	66 - 124	4	19	
Benzo[b]fluoranthene	0.0807	0.0804	0.0833	0.0833	97	97	72 - 114	0	26	
Benzo[k]fluoranthene	0.0777	0.0830	0.0833	0.0833	93	100	70 - 115	7	17	
Benzo[a]pyrene	0.0658	0.0693	0.0833	0.0833	79	83	57 - 104	5	18	
Indeno(1,2,3-c,d)pyrene	0.0743	0.0761	0.0833	0.0833	89	91	63 - 121	2	20	
Dibenz[a,h]anthracene	0.0729	0.0747	0.0833	0.0833	88	90	62 - 125	2	15	
Benzo[g,h,i]perylene	0.0714	0.0734	0.0833	0.0833	86	88	64 - 117	3	21	
<i>Surrogate:</i>										
Nitrobenzene-d5					77	79	39 - 110			
2-Fluorobiphenyl					81	84	41 - 107			
Terphenyl-d14					95	98	54 - 126			

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S30-2-4					
Laboratory ID:	07-101-02					
Aroclor 1016	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.12	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.12	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	65	35-127				
Client ID:	GMX-S16-2-4					
Laboratory ID:	07-101-05					
Aroclor 1016	ND	0.33	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.33	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.33	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.33	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	3.9	0.33	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.33	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.33	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.33	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.33	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	42	35-127				
Client ID:	GMX-S17-2-4					
Laboratory ID:	07-101-08					
Aroclor 1016	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	0.45	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.034	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.034	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	51	35-127				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S24-2-4					
Laboratory ID:	07-101-11					
Aroclor 1016	ND	0.073	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.073	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.073	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.073	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.073	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.073	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.073	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.073	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.073	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	56	35-127				
Client ID:	GMX-S25-2-4					
Laboratory ID:	07-101-14					
Aroclor 1016	ND	0.055	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.055	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.055	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.055	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.055	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	0.13	0.055	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.055	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.055	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.055	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	64	35-127				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0718S1					
Aroclor 1016	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.030	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
<i>DCB</i>	96		35-127			

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-126-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.457	0.412	0.500	0.500	ND	91	82	24-128	10	14	
<i>Surrogate:</i>											
<i>DCB</i>						92	85	35-127			

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S16-4-6					
Laboratory ID:	07-101-06					
Aroclor 1016	ND	0.17	EPA 8082	7-30-08	7-31-08	
Aroclor 1221	ND	0.17	EPA 8082	7-30-08	7-31-08	
Aroclor 1232	ND	0.17	EPA 8082	7-30-08	7-31-08	
Aroclor 1242	ND	0.17	EPA 8082	7-30-08	7-31-08	
Aroclor 1248	ND	0.17	EPA 8082	7-30-08	7-31-08	
Aroclor 1254	ND	0.17	EPA 8082	7-30-08	7-31-08	
Aroclor 1260	ND	0.17	EPA 8082	7-30-08	7-31-08	
Aroclor 1262	ND	0.17	EPA 8082	7-30-08	7-31-08	
Aroclor 1268	ND	0.17	EPA 8082	7-30-08	7-31-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	45	35-127				
Client ID:	GMX-S17-4-6					
Laboratory ID:	07-101-09					
Aroclor 1016	ND	0.12	EPA 8082	7-30-08	7-31-08	
Aroclor 1221	ND	0.12	EPA 8082	7-30-08	7-31-08	
Aroclor 1232	ND	0.12	EPA 8082	7-30-08	7-31-08	
Aroclor 1242	ND	0.12	EPA 8082	7-30-08	7-31-08	
Aroclor 1248	ND	0.12	EPA 8082	7-30-08	7-31-08	
Aroclor 1254	ND	0.12	EPA 8082	7-30-08	7-31-08	
Aroclor 1260	ND	0.12	EPA 8082	7-30-08	7-31-08	
Aroclor 1262	ND	0.12	EPA 8082	7-30-08	7-31-08	
Aroclor 1268	ND	0.12	EPA 8082	7-30-08	7-31-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	39	35-127				
Client ID:	GMX-S25-4-6					
Laboratory ID:	07-101-15					
Aroclor 1016	ND	0.14	EPA 8082	7-30-08	7-31-08	
Aroclor 1221	ND	0.14	EPA 8082	7-30-08	7-31-08	
Aroclor 1232	ND	0.14	EPA 8082	7-30-08	7-31-08	
Aroclor 1242	ND	0.14	EPA 8082	7-30-08	7-31-08	
Aroclor 1248	ND	0.14	EPA 8082	7-30-08	7-31-08	
Aroclor 1254	0.41	0.14	EPA 8082	7-30-08	7-31-08	
Aroclor 1260	ND	0.14	EPA 8082	7-30-08	7-31-08	
Aroclor 1262	ND	0.14	EPA 8082	7-30-08	7-31-08	
Aroclor 1268	ND	0.14	EPA 8082	7-30-08	7-31-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	39	35-127				

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0730S2					
Aroclor 1016	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1221	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1232	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1242	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1248	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1254	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1260	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1262	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1268	ND	0.050	EPA 8082	7-30-08	7-31-08	
Surrogate:	Percent Recovery	Control Limits				
DCB	88	35-127				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-101-06										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.169	0.170	0.500	0.500	ND	34	34	24-128	1	14	
Surrogate:											
DCB						47	48	35-127			

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-22,24&27-08
 Date Analyzed: 7-23,24&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-101-02
 Client ID: **GMX-S30-2-4**

Analyte	Method	Result	PQL
Antimony	6020	8.5	4.8
Arsenic	6010B	31	19
Beryllium	6020	ND	0.38
Cadmium	6010B	2.1	1.9
Chromium	6010B	33	1.9
Copper	6010B	140	3.8
Lead	6010B	210	19
Mercury	7471A	0.19	0.019
Nickel	6010B	29	9.6
Selenium	6020	1.6	0.67
Silver	6020	ND	0.96
Thallium	6020	ND	0.19
Zinc	6010B	260	9.6

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-22&24-08

Date Analyzed: 7-23&24-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-101-05

Client ID: **GMX-S16-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	12	5.5
Arsenic	6010B	17	11
Beryllium	6010B	ND	0.55
Cadmium	6010B	ND	0.55
Chromium	6010B	22	0.55
Copper	6010B	50	1.1
Lead	6010B	29	5.5
Mercury	7471A	0.042	0.0055
Nickel	6010B	24	2.7
Selenium	6020	0.40	0.19
Silver	6010B	ND	0.55
Thallium	6020	ND	0.055
Zinc	6010B	140	2.7

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22&24-08

Date Analyzed: 7-23&24-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-101-08

Client ID: **GMX-S17-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	9.1	5.7
Arsenic	6010B	16	11
Beryllium	6010B	ND	0.57
Cadmium	6010B	ND	0.57
Chromium	6010B	21	0.57
Copper	6010B	80	1.1
Lead	6010B	98	5.7
Mercury	7471A	0.31	0.0057
Nickel	6010B	26	2.8
Selenium	6020	0.31	0.20
Silver	6010B	ND	0.57
Thallium	6020	ND	0.057
Zinc	6010B	150	2.8

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22,24&27-08
 Date Analyzed: 7-23,24&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-101-11
 Client ID: **GMX-S24-2-4**

Analyte	Method	Result	PQL
Antimony	6020	27	6.1
Arsenic	6010B	13	12
Beryllium	6020	ND	0.49
Cadmium	6020	3.7	0.61
Chromium	6010B	33	1.2
Copper	6010B	170	2.4
Lead	6010B	510	12
Mercury	7471A	0.099	0.012
Nickel	6010B	34	6.1
Selenium	6020	2.2	0.43
Silver	6020	1.3	0.61
Thallium	6020	ND	0.12
Zinc	6010B	870	6.1

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22,24&27-08
 Date Analyzed: 7-23,24&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-101-14
 Client ID: **GMX-S25-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	9.1
Arsenic	6010B	9.5	9.1
Beryllium	6010B	ND	0.91
Cadmium	6010B	ND	0.91
Chromium	6010B	110	0.91
Copper	6010B	210	1.8
Lead	6010B	40	9.1
Mercury	7471A	0.59	0.0091
Nickel	6010B	98	4.5
Selenium	6020	0.50	0.32
Silver	6010B	ND	0.91
Thallium	6020	ND	0.091
Zinc	6010B	930	4.5

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: MB0722S2,MB0722S4&MB0724S2

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.0
Arsenic	6020	ND	1.3
Beryllium	6020	ND	0.025
Cadmium	6020	ND	0.25
Chromium	6010B	ND	0.50
Copper	6010B	ND	1.0
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.0050
Nickel	6020	ND	0.63
Selenium	6020	ND	0.18
Silver	6020	ND	0.25
Thallium	6020	ND	0.050
Zinc	6010B	ND	2.5

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

**TOTAL METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-27-08
Date Analyzed: 7-27-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0727S1

Analyte	Method	Result	PQL
Arsenic	6020	ND	1.3
Selenium	6020	ND	0.18

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-19

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	0.250	
Beryllium	ND	ND	NA	0.0050	
Cadmium	ND	ND	NA	0.050	
Chromium	29.6	27.3	8	0.50	
Copper	23.1	22.6	2	1.0	
Lead	6.77	ND	NA	5.0	
Mercury	0.0235	0.0262	NA	0.0050	
Nickel	27.5	27.2	1	0.13	
Selenium	0.829	0.363	78	0.18	C
Silver	ND	ND	NA	0.050	
Thallium	0.0670	0.0803	18	0.050	
Zinc	41.7	40.3	3	2.5	

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

**TOTAL METALS
EPA 6020
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	2.59	2.55	2	0.250	
Selenium	0.256	0.220	15	0.18	

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-19

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	84.8	85	87.4	87	3	
Arsenic	100	96.7	97	98.8	99	2	
Beryllium	50	47.6	95	48.0	96	1	
Cadmium	50	47.6	95	47.4	95	0	
Chromium	100	125	95	126	96	1	
Copper	50	72.3	98	73.1	100	1	
Lead	250	238	92	238	92	0	
Mercury	0.50	0.481	96	0.489	98	2	
Nickel	100	123	95	124	96	1	
Selenium	100	90.5	90	89.1	88	2	
Silver	25	20.9	84	20.8	83	1	
Thallium	50	47.0	94	46.5	93	1	
Zinc	100	137	95	139	97	2	

Date of Report: August 8, 2008
 Samples Submitted: July 15, 2008
 Laboratory Reference: 0807-101
 Project: 10654

**TOTAL METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	97.5	95	97.3	95	0	
Selenium	100	102	102	101	100	1	

Date of Report: August 8, 2008
Samples Submitted: July 15, 2008
Laboratory Reference: 0807-101
Project: 10654

% MOISTURE

Date Analyzed: 7-16&30&8-1-08

Client ID	Lab ID	% Moisture
GMX-S30-2-4	07-101-02	74
GMX-S30-4-6	07-101-03	35
GMX-S16-2-4	07-101-05	9
GMX-S16-4-6	07-101-06	70
GMX-S17-0-1	07-101-07	8
GMX-S17-2-4	07-101-08	12
GMX-S17-4-6	07-101-09	58
GMX-S24-2-4	07-101-11	59
GMX-S24-4-6	07-101-12	78
GMX-S25-0-1	07-101-13	41
GMX-S25-2-4	07-101-14	45
GMX-S25-4-6	07-101-15	65
GMX-S10-2-4	07-101-17	48
GMX-S10-4-6	07-101-18	74



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

Chain of Custody

Laboratory Number: **07-101-07-101**

Requested Analysis

Turnaround Request (in working days)	(Check One)	Standard (7 working days) (TPH analysis 5 working days)	(other)
<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day	<input checked="" type="checkbox"/>	
<input type="checkbox"/> 2 Day	<input type="checkbox"/> 3 Day		

Company: **AMEG Geomatrix**
 Project Number: **106574**
 Project Name: **Custom Plywood**
 Project Manager: **Kathleen Goodman**
 Sampled by: **Chris Brown / Nick Bacher**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total Metals (Priority Pollutants)	TCLP Metals	HEM by 1664	% Moisture
1	GMX-530-0-1	7/15/08	0755	S117	2		X	X			X		X	X	X	X	X	X	↓
2	GMX-530-2-4		0800		4		X	X			X		X	X	X	X	X	X	↓
3	GMX-530-4-6		0805		2		X	X			X		X	X	X	X	X	X	↓
4	GMX-516-0-1		0820		2		X	X			X		X	X	X	X	X	X	↓
5	GMX-516-2-4		0825		5		X	X			X		X	X	X	X	X	X	↓
6	GMX-516-4-6		0830		2		X	X			X		X	X	X	X	X	X	↓
7	GMX-517-0-1		0835		2		X	X			X		X	X	X	X	X	X	↓
8	GMX-517-2-4		0840		6		X	X			X		X	X	X	X	X	X	↓
9	GMX-517-4-6		0845		2		X	X			X		X	X	X	X	X	X	↓
10	GMX-524-0-1		0925		2		X	X			X		X	X	X	X	X	X	↓

Relinquished by	Company	Date	Time	Comments/Special Instructions:
<i>Nick Bacher</i>	AMEC GMX	7/15/08	1428	① Special RLS, please check with David B.
<i>Kathleen Goodman</i>	"	"	1429	② G/BTEX not preserved, must be extracted or frozen within 48 hrs of the sample time
<i>Kathleen Goodman</i>	"	"	1625	③ wood for samples
<i>Chris Brown</i>	AMEC	7/15/08	1630	Chromatograms with final report
				Added 7/24/08 - DB
				Added 7/24/08 - DB
				Added 7/24/08 - DB
				Added 7/24/08 - DB

Chain of Custody

Laboratory Number: **07-101** Requested Analysis: **07-101**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Day 3 Day
 Standard (7 working days)
 (TPH analysis 5 working days)
 (other)

Company: **AMEC Geomatrix**
 Project Number: **10654**
 Project Name: **Custom Plywood**
 Project Manager: **Kathleen Goodman**
 Sampled by: **Chris Brown / Nick Badger**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total Metals	Priority Metals	TCLP Metals	HEM by 1664	% Moisture
11	GMX-524-2-4	7/15/08	0930	Soil	6		X	X					X			X				/
12	GMX-524-4-6		0935		2		X	X					X			X				/
13	GMX-525-0-1		1000		2		X	X					X			X				/
14	GMX-525-2-4		1005		6		X	X					X			X				→
15	GMX-525-4-6		1010		2		X	X					X			X				▲
16	GMX-S10-0-1		1110		2		X	X					X			X				/
17	GMX-S10-2-4		1115		6		X	X					X			X				/
18	GMX-S10-4-6		1120		2		X	X					X			X				/

Signature	Company	Date	Time	Comments/Special Instructions
<i>Nick Badger</i>	AMEC GMX	7/15/08	1428	<u>Important</u> Please read notes on page 1. Added 7/24/08 DB Added 7/29/08 DB Chromatograms with final report Added 7/30/08 DB
<i>Kathleen Goodman</i>	"	"	1729	
<i>Kathleen Goodman</i>	"	"	1635	
<i>Chris Brown</i>	AMEC	7/15/08	1630	
				Reviewed by/Date



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 2, 2008

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654.000
Laboratory Reference No. 0807-117

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on July 16, 2008.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Baumeister', with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 2, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-117
Project: 10654.000

Case Narrative

Page 1 of 2

Samples were collected on July 16, 2008 and received by the laboratory on July 16, 2008. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

The MTCA Method A clean-up level for Benzene of 0.030 mg/kg is not achievable for samples GMX-S11-2-4, GMX-S7-2-4, and GMX-S9-2-4 due to the high moisture content of the samples.

The surrogate recovery is outside of the control limits for samples GMX-S11-2-4, GMX-S6-2-4, GMX-S7-2-4, and GMX-S20-2-4 due to sample matrix effects.

The surrogate recovery is outside of the control limits for sample GMX-S11-2-4 and its duplicate, matrix spike and matrix spike duplicate due to sample matrix effects.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

NWTPH-Dx Analysis

Samples GMX-S20-0-1 and GMX-MW4-0-1.5 were extracted and analyzed outside of hold time as per clients request.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Volatiles EPA 8260B (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Internal Standard 1,4-Dichlorobenzene-d4 does not meet acceptance criteria and Surrogate Standard 4-Bromofluorobenzene is outside of control limits for sample GMX-S6-2-4 due to sample matrix effects. The sample was reanalyzed with similar results. All results, including Practical Quantitation Limits, from Bromobenzene onward should be considered estimates.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Total Metals EPA 200.8/7470A Analysis

The water sample, GMX-S9-W, was allowed to settle and decanted.

The practical quantitation limit for Selenium in sample GMX-S9-W is elevated due to interferences present in the sample.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Semivolatiles EPA 8270D/SIM Analysis

Samples GMX-S11-2-4 and GMX-S9-2-4 had one surrogate recovery out of control limits. This is within allowance of our standard operation procedure as long as the recovery is above 10%.

The SB/SBD pair had one RPD out of control limits. Pentachlorophenol is flagged with an "L" indicator. The sample MS/MSD pair had one recovery fall outside of control limits 2,4-Dinitrotoluene is flagged with an "I" indicator. Also two RPD's were out on the MS/MSD pair flagged with an "L" indicator. The holding time has expired, so no further action was taken.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Volatile Petroleum Hydrocarbons Analysis

Sample GMX-S9-2-4 was analyzed one day out of hold time.

The MTCA Method A clean-up level for Benzene of 0.030 mg/kg is not achievable for sample GMX-S9-2-4 due to the high moisture content of the sample.

The surrogate recovery is outside of the control limits for sample GMX-S9-2-4 due to sample matrix effects. The sample matrix consists of wood debris and has high moisture content.

The surrogate recovery is outside of the control limits for the matrix spike and matrix spike duplicate due to sample matrix effects. The sample matrix consists of wood debris and has high moisture content.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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NWTPH-Dx

Date Extracted: 7-24-08
 Date Analyzed: 7-24&25-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S26-2-4	GMX-S11-2-4	GMX-S6-2-4
Lab ID:	07-117-02	07-117-05	07-117-07
Diesel Range:	ND	630	ND
PQL:	350	150	180
Identification:	---	Diesel Range Organics	---
Lube Oil Range:	5800	3600	1900
PQL:	390	290	360
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	91%	101%	98%
Flags:	U1,Y	Y	Y

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NWTPH-Dx

Date Extracted: 7-24-08
 Date Analyzed: 7-24&25-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S7-2-4	GMX-S20-2-4	GMX-S9-2-4
Lab ID:	07-117-10	07-117-13	07-117-16
Diesel Range:	31000	ND	370
PQL:	3300	33	310
Identification:	Diesel Range Organics	---	Diesel Range Organics
Lube Oil Range:	180000	ND	4000
PQL:	6700	65	630
Identification:	Lube Oil	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	---	104%	84%
Flags:	Y,S	Y	Y

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NWTPH-Dx

Date Extracted: 7-24-08
 Date Analyzed: 7-24&25-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S31-4-6	GMX-MW4-6-7.5
Lab ID:	07-117-19	07-117-21

Diesel Range:	ND	160
PQL:	30	61
Identification:	---	Diesel Range Organics

Lube Oil Range:	ND	590
PQL:	60	120
Identification:	---	Lube Oil

Surrogate Recovery		
o-Terphenyl:	122%	82%

Flags:	Y	Y
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NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-24-08
Date Analyzed: 7-24-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0724S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 100%

Flags: Y

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**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-24-08
Date Analyzed: 7-24-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-117-13 07-117-13 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 104% 117%

Flags: Y Y

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NWTPH-Dx

Date Extracted: 7-30-08
 Date Analyzed: 8-1-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S26-4-6	GMX-S6-4-6	GMX-S7-4-6
Lab ID:	07-117-03	07-117-08	07-117-11
Diesel Range:	ND	ND	ND
PQL:	500	500	5100
Identification:	---	---	---
Lube Oil Range:	7100	6200	60000
PQL:	590	260	3600
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	---	74%	---
Flags:	U1,Y,S	U1,Y	U1,Y,S

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NWTPH-Dx

Date Extracted: 7-30-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Client ID: GMX-S9-4-6
Lab ID: 07-117-17

Diesel Range: **ND**
PQL: 2000
Identification: ---

Lube Oil Range: **7800**
PQL: 500
Identification: Lube Oil

Surrogate Recovery
o-Terphenyl: 61%

Flags: U1,Y

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NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-30-08
Date Analyzed: 7-30-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0730S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 97%

Flags: Y

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NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-30-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-117-03 07-117-03 DUP

Diesel Range: **ND** **ND**
PQL: 500 300

RPD: N/A

Surrogate Recovery
o-Terphenyl: --- 82%

Flags: U1,Y,S U1,Y

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NWTPH-Dx

Date Extracted: 8-1-08
 Date Analyzed: 8-3-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S20-0-1	GMX-MW4-0-1.5
Lab ID:	07-117-12	07-117-20

Diesel Range:	ND	ND
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PQL:	33	32
------	----	----

Identification:	---	---
-----------------	-----	-----

Lube Oil Range:	ND	180
-----------------	-----------	------------

PQL:	67	64
------	----	----

Identification:	---	Lube Oil
-----------------	-----	----------

Surrogate Recovery

o-Terphenyl:	97%	96%
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Flags:	Y	Y
--------	---	---

Date of Report: September 2, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-117
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NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-1-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0801S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 110%

Flags: Y

Date of Report: September 2, 2008
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Laboratory Reference: 0807-117
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NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-1-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-229-04 07-229-04 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 70% 91%

Flags: Y Y

Date of Report: September 2, 2008
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NWTPH-Dx

Date Extracted: 7-22-08
Date Analyzed: 7-22-08

Matrix: Water
Units: mg/L (ppm)

Client ID: GMX-S9-W
Lab ID: 07-117-18

Diesel Range: **ND**
PQL: 0.23
Identification: ---

Lube Oil Range: **ND**
PQL: 0.36
Identification: ---

Surrogate Recovery
o-Terphenyl: 87%

Flags: Y

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NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-22-08
Date Analyzed: 7-22-08

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0722W1

Diesel Range: **ND**
PQL: 0.25
Identification: ---

Lube Oil Range: **ND**
PQL: 0.40
Identification: ---

Surrogate Recovery
o-Terphenyl: 87%

Flags: Y

Date of Report: September 2, 2008
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**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-22-08
Date Analyzed: 7-22-08

Matrix: Water
Units: mg/L (ppm)

Lab ID: 07-117-18 07-117-18 DUP

Diesel Range: **ND** **ND**
PQL: 0.23 0.25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 87% 80%

Flags: Y Y

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NWTPH-Gx/BTEX

Date Extracted: 7-18-08
 Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **GMX-S26-2-4** **GMX-S11-2-4**
 Lab ID: 07-117-02 07-117-05

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.11
Toluene	ND		0.082	ND		0.53
Ethyl Benzene	ND		0.082	ND		0.53
m,p-Xylene	ND		0.082	ND		0.53
o-Xylene	ND		0.082	ND		0.53
TPH-Gas	ND		8.2	ND		53
Surrogate Recovery:						
Fluorobenzene	98%			49%	Q	

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NWTPH-Gx/BTEX

Date Extracted: 7-18-08
 Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S6-2-4	GMX-S7-2-4
Lab ID:	07-117-07	07-117-10

	Result	Flags	PQL	Result	Flags	PQL
Benzene	---		0.11	ND		0.10
Toluene	---		0.53	ND		0.51
Ethyl Benzene	---		0.53	ND		0.51
m,p-Xylene	---		0.53	ND		0.51
o-Xylene	---		0.53	ND		0.51
TPH-Gas	ND		53	ND		51
Surrogate Recovery:						
Fluorobenzene	31%	Q		24%	Q	

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NWTPH-Gx/BTEX

Date Extracted: 7-18-08
 Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S20-2-4	GMX-S9-2-4
Lab ID:	07-117-13	07-117-16

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.037
Toluene	ND		0.059	ND		0.18
Ethyl Benzene	ND		0.059	ND		0.18
m,p-Xylene	ND		0.059	ND		0.18
o-Xylene	ND		0.059	ND		0.18
TPH-Gas	ND		5.9	ND		18
Surrogate Recovery:						
Fluorobenzene	51%	Q		72%		

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NWTPH-Gx/BTEX

Date Extracted: 7-18-08
Date Analyzed: 7-18-08

Matrix: Soil
Units: mg/kg (ppm)

Client ID: **GMX-S31-4-6**
Lab ID: 07-117-19

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.057
Ethyl Benzene	ND		0.057
m,p-Xylene	ND		0.057
o-Xylene	ND		0.057
TPH-Gas	ND		5.7
Surrogate Recovery: Fluorobenzene	109%		

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**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-18-08
Date Analyzed: 7-18-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0718S3

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	86%		

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**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-18-08

Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID:	07-117-05 Original	07-117-05 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	49%	49%		Q

Date of Report: September 2, 2008
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**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-18-08

Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Spike Level (ppm): 4.51

Lab ID:	07-117-05 MS	Percent Recovery	07-117-05 MSD	Percent Recovery	RPD	Flags
Benzene	4.44	98	4.54	101	2	
Toluene	4.52	100	4.60	102	2	
Ethyl Benzene	4.54	101	4.62	102	2	
m,p-Xylene	4.55	101	4.61	102	1	
o-Xylene	4.55	101	4.62	103	2	
Surrogate Recovery:						
Fluorobenzene	50%		51%			Q

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NWTPH-Gx

Date Extracted: 7-17-08
Date Analyzed: 7-17-08

Matrix: Water
Units: ug/L (ppb)

Client ID: **GMX-S9-W**
Lab ID: 07-117-18

	Result	Flags	PQL
TPH-Gas	ND		400
Surrogate Recovery: Fluorobenzene	98%		

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NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-17-08
Date Analyzed: 7-17-08

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0717W1

	Result	Flags	PQL
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	97%		

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NWTPH-Gx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-17-08
Date Analyzed: 7-17-08

Matrix: Water
Units: ug/L (ppb)

Lab ID:	07-114-01 Original	07-114-01 Duplicate	RPD	Flags
TPH-Gas	ND	ND	NA	
Surrogate Recovery: Fluorobenzene	98%	98%		

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TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22,24&27-08
 Date Analyzed: 7-23,24&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-02
 Client ID: **GMX-S26-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	12	7.8
Arsenic	6010B	ND	16
Beryllium	6010B	ND	0.78
Cadmium	6010B	0.97	0.78
Chromium	6010B	38	0.78
Copper	6010B	47	1.6
Lead	6010B	58	7.8
Mercury	7471A	0.032	0.0078
Nickel	6010B	40	3.9
Selenium	6020	0.90	0.27
Silver	6010B	ND	0.78
Thallium	6020	0.13	0.078
Zinc	6010B	120	3.9

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**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-22,24&27-08
 Date Analyzed: 7-23,24&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-07
 Client ID: **GMX-S6-2-4**

Analyte	Method	Result	PQL
Antimony	6020	66	6.3
Arsenic	6020	14	8.9
Beryllium	6020	ND	0.71
Cadmium	6020	ND	1.8
Chromium	6010B	15	3.6
Copper	6010B	87	7.1
Lead	6010B	130	36
Mercury	7471A	0.13	0.036
Nickel	6010B	21	18
Selenium	6020	1.9	1.3
Silver	6020	ND	1.8
Thallium	6020	ND	0.36
Zinc	6010B	220	18

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TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22,24&27-08
 Date Analyzed: 7-23,24&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-13
 Client ID: **GMX-S20-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	19	6.5
Arsenic	6010B	ND	13
Beryllium	6010B	ND	0.65
Cadmium	6010B	0.84	0.65
Chromium	6010B	33	0.65
Copper	6010B	74	1.3
Lead	6010B	63	6.5
Mercury	7471A	ND	0.0065
Nickel	6010B	34	3.2
Selenium	6020	0.33	0.23
Silver	6010B	ND	0.65
Thallium	6020	ND	0.065
Zinc	6010B	120	3.2

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TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-19
 Client ID: **GMX-S31-4-6**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.0
Arsenic	6010B	ND	12
Beryllium	6010B	ND	0.60
Cadmium	6010B	ND	0.60
Chromium	6010B	36	0.60
Copper	6010B	28	1.2
Lead	6010B	8.2	6.0
Mercury	7471A	0.028	0.0060
Nickel	6010B	33	3.0
Selenium	6020	1.0	0.21
Silver	6010B	ND	0.60
Thallium	6020	0.081	0.060
Zinc	6010B	50	3.0

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TOTAL METALS
EPA 6010B/6020/7471A

Date Extracted: 7-22&24-08

Date Analyzed: 7-23&24-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-21

Client ID: **GMX-MW4-6-7.5**

Analyte	Method	Result	PQL
Antimony	6020	ND	4.9
Arsenic	6020	ND	5.4
Beryllium	6020	ND	0.43
Cadmium	6020	ND	0.54
Chromium	6010B	19	1.1
Copper	6010B	47	2.2
Lead	6010B	15	11
Mercury	7471A	0.084	0.011
Nickel	6010B	26	5.4
Selenium	6020	0.48	0.38
Silver	6020	ND	0.54
Thallium	6020	ND	0.11
Zinc	6010B	61	5.4

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: MB0722S2,MB0722S4&MB0724S2

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.0
Arsenic	6020	ND	1.3
Beryllium	6020	ND	0.025
Cadmium	6020	ND	0.25
Chromium	6010B	ND	0.50
Copper	6010B	ND	1.0
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.0050
Nickel	6020	ND	0.63
Selenium	6020	ND	0.18
Silver	6020	ND	0.25
Thallium	6020	ND	0.050
Zinc	6010B	ND	2.5

Date of Report: September 2, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-117
Project: 10654.000

**TOTAL METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-27-08
Date Analyzed: 7-27-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0727S1

Analyte	Method	Result	PQL
Arsenic	6020	ND	1.3
Selenium	6020	ND	0.18

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-19

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	0.250	
Beryllium	ND	ND	NA	0.0050	
Cadmium	ND	ND	NA	0.050	
Chromium	29.6	27.3	8	0.50	
Copper	23.1	22.6	2	1.0	
Lead	6.77	ND	NA	5.0	
Mercury	0.0235	0.0262	NA	0.0050	
Nickel	27.5	27.2	1	0.13	
Selenium	0.829	0.363	78	0.18	C
Silver	ND	ND	NA	0.050	
Thallium	0.0670	0.0803	18	0.050	
Zinc	41.7	40.3	3	2.5	

Date of Report: September 2, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-117
Project: 10654.000

**TOTAL METALS
EPA 6020
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	2.59	2.55	2	0.250	
Selenium	0.256	0.220	15	0.18	

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-22&24-08
 Date Analyzed: 7-23&24-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-117-19

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	84.8	85	87.4	87	3	
Arsenic	100	96.7	97	98.8	99	2	
Beryllium	50	47.6	95	48.0	96	1	
Cadmium	50	47.6	95	47.4	95	0	
Chromium	100	125	95	126	96	1	
Copper	50	72.3	98	73.1	100	1	
Lead	250	238	92	238	92	0	
Mercury	0.50	0.481	96	0.489	98	2	
Nickel	100	123	95	124	96	1	
Selenium	100	90.5	90	89.1	88	2	
Silver	25	20.9	84	20.8	83	1	
Thallium	50	47.0	94	46.5	93	1	
Zinc	100	137	95	139	97	2	

Date of Report: September 2, 2008
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**TOTAL METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	97.5	95	97.3	95	0	
Selenium	100	102	102	101	100	1	

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
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 Project: 10654.000

**TOTAL METALS
 EPA 200.8/7470A**

Date Extracted: 7-25&28-08
 Date Analyzed: 7-25,27&28-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-117-18
 Client ID: **GMX-S9-W**

Analyte	Method	Result	PQL
Antimony	200.8	ND	5.0
Arsenic	200.8	1.6	1.6
Beryllium	200.8	ND	4.0
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Copper	200.8	ND	3.0
Lead	200.8	7.1	1.0
Mercury	7470A	ND	0.125
Nickel	200.8	ND	8.0
Selenium	200.8	ND	7.0
Silver	200.8	ND	8.0
Thallium	200.8	ND	5.0
Zinc	200.8	ND	25

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**TOTAL METALS
 EPA 200.8/7470A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-25&28-08
 Date Analyzed: 7-25,27&28-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: MB0725W1

Analyte	Method	Result	PQL
Antimony	200.8	ND	5.0
Arsenic	200.8	ND	1.6
Beryllium	200.8	ND	4.0
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Copper	200.8	ND	3.0
Lead	200.8	ND	1.0
Mercury	7470A	ND	0.125
Nickel	200.8	ND	8.0
Selenium	200.8	ND	7.0
Silver	200.8	ND	8.0
Thallium	200.8	ND	2.0
Zinc	200.8	ND	25

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**TOTAL METALS
 EPA 200.8/7470A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-25&28-08
 Date Analyzed: 7-25,27&28-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-117-18

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	1.63	1.36	18	1.6	
Beryllium	ND	ND	NA	4	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	3.02	NA	3.0	
Lead	7.14	7.26	2	1.0	
Mercury	ND	ND	NA	0.125	
Nickel	ND	ND	NA	8.0	
Selenium	ND	18	NA	7.0	
Silver	ND	ND	NA	8.0	
Thallium	ND	ND	NA	2.0	
Zinc	ND	ND	NA	25	

Date of Report: September 2, 2008
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**TOTAL METALS
 EPA 200.8/7470A
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-25&28-08
 Date Analyzed: 7-25,27&28-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-117-18

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	103	103	99.4	99	3	
Arsenic	100	98.8	97	94.6	93	4	
Beryllium	100	90.3	90	87.5	87	3	
Cadmium	100	93.9	94	89.9	90	4	
Chromium	100	87.1	87	81.5	81	7	
Copper	100	99.5	100	94.9	95	5	
Lead	100	107	100	103	96	4	
Mercury	12.5	11.4	91	11.4	91	0	
Nickel	100	103	103	99.0	99	4	
Selenium	100	83.9	84	96.9	97	14	
Silver	100	90.4	90	87.7	88	3	
Thallium	100	104	104	100	100	4	
Zinc	100	96.8	97	93.1	93	4	

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S26-2-4					
Laboratory ID:	07-117-02					
Aroclor 1016	ND	0.047	EPA 8082	7-17-08	7-17-08	
Aroclor 1221	ND	0.047	EPA 8082	7-17-08	7-17-08	
Aroclor 1232	ND	0.047	EPA 8082	7-17-08	7-17-08	
Aroclor 1242	ND	0.047	EPA 8082	7-17-08	7-17-08	
Aroclor 1248	ND	0.047	EPA 8082	7-17-08	7-17-08	
Aroclor 1254	ND	0.047	EPA 8082	7-17-08	7-17-08	
Aroclor 1260	0.27	0.047	EPA 8082	7-17-08	7-17-08	
Aroclor 1262	ND	0.047	EPA 8082	7-17-08	7-17-08	
Aroclor 1268	ND	0.047	EPA 8082	7-17-08	7-17-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	43	35-127				
Client ID:	GMX-S20-2-4					
Laboratory ID:	07-117-13					
Aroclor 1016	ND	0.039	EPA 8082	7-17-08	7-17-08	
Aroclor 1221	ND	0.039	EPA 8082	7-17-08	7-17-08	
Aroclor 1232	ND	0.039	EPA 8082	7-17-08	7-17-08	
Aroclor 1242	ND	0.039	EPA 8082	7-17-08	7-17-08	
Aroclor 1248	ND	0.039	EPA 8082	7-17-08	7-17-08	
Aroclor 1254	ND	0.039	EPA 8082	7-17-08	7-17-08	
Aroclor 1260	ND	0.039	EPA 8082	7-17-08	7-17-08	
Aroclor 1262	ND	0.039	EPA 8082	7-17-08	7-17-08	
Aroclor 1268	ND	0.039	EPA 8082	7-17-08	7-17-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	61	35-127				

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0717S1					
Aroclor 1016	ND	0.030	EPA 8082	7-17-08	7-17-08	
Aroclor 1221	ND	0.030	EPA 8082	7-17-08	7-17-08	
Aroclor 1232	ND	0.030	EPA 8082	7-17-08	7-17-08	
Aroclor 1242	ND	0.030	EPA 8082	7-17-08	7-17-08	
Aroclor 1248	ND	0.030	EPA 8082	7-17-08	7-17-08	
Aroclor 1254	ND	0.030	EPA 8082	7-17-08	7-17-08	
Aroclor 1260	ND	0.030	EPA 8082	7-17-08	7-17-08	
Aroclor 1262	ND	0.030	EPA 8082	7-17-08	7-17-08	
Aroclor 1268	ND	0.030	EPA 8082	7-17-08	7-17-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>82</i>	<i>35-127</i>				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-111-13										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.322	0.323	0.500	0.500	ND	64	65	24-128	0	14	
<i>Surrogate:</i>											
<i>DCB</i>						<i>59</i>	<i>61</i>	<i>35-127</i>			

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
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 Project: 10654.000

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S26-4-6					
Laboratory ID:	07-117-03					
Aroclor 1016	ND	0.059	EPA 8082	7-30-08	7-31-08	
Aroclor 1221	ND	0.059	EPA 8082	7-30-08	7-31-08	
Aroclor 1232	ND	0.059	EPA 8082	7-30-08	7-31-08	
Aroclor 1242	ND	0.059	EPA 8082	7-30-08	7-31-08	
Aroclor 1248	ND	0.059	EPA 8082	7-30-08	7-31-08	
Aroclor 1254	ND	0.059	EPA 8082	7-30-08	7-31-08	
Aroclor 1260	0.10	0.059	EPA 8082	7-30-08	7-31-08	
Aroclor 1262	ND	0.059	EPA 8082	7-30-08	7-31-08	
Aroclor 1268	ND	0.059	EPA 8082	7-30-08	7-31-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>51</i>	<i>35-127</i>				

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
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 Project: 10654.000

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0730S2					
Aroclor 1016	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1221	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1232	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1242	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1248	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1254	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1260	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1262	ND	0.050	EPA 8082	7-30-08	7-31-08	
Aroclor 1268	ND	0.050	EPA 8082	7-30-08	7-31-08	
Surrogate:	Percent Recovery	Control Limits				
DCB	88	35-127				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-101-06										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.169	0.170	0.500	0.500	ND	34	34	24-128	1	14	
Surrogate:											
DCB						47	48	35-127			

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
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 Project: 10654.000

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Date Extracted: 7-30-08
 Date Analyzed: 8-1-08

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: 07-117-05
 Client ID: **GMX-S11-2-4**

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.20
Pyridine	ND		0.20
Phenol	ND		0.20
Aniline	ND		0.20
bis(2-Chloroethyl)ether	ND		0.20
2-Chlorophenol	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
Benzyl alcohol	ND		0.20
1,2-Dichlorobenzene	ND		0.20
2-Methylphenol (o-Cresol)	ND		0.20
bis(2-Chloroisopropyl)ether	ND		0.20
(3+4)-Methylphenol (m,p-Cresol)	ND		0.20
N-Nitroso-di-n-propylamine	ND		0.20
Hexachloroethane	ND		0.20
Nitrobenzene	ND		0.20
Isophorone	ND		0.20
2-Nitrophenol	ND		0.20
2,4-Dimethylphenol	ND		0.20
bis(2-Chloroethoxy)methane	ND		0.20
2,4-Dichlorophenol	ND		0.20
1,2,4-Trichlorobenzene	ND		0.20
Naphthalene	ND		0.20
4-Chloroaniline	ND		0.20
Hexachlorobutadiene	ND		0.20
4-Chloro-3-methylphenol	ND		0.20
2-Methylnaphthalene	ND		0.20
1-Methylnaphthalene	ND		0.20

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
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Lab ID: 07-117-05
 Client ID: **GMX-S11-2-4**

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.20
2,4,6-Trichlorophenol	ND		0.20
2,3-Dichloroaniline	ND		0.20
2,4,5-Trichlorophenol	ND		0.20
2-Chloronaphthalene	ND		0.20
2-Nitroaniline	ND		0.20
1,4-Dinitrobenzene	ND		0.20
Dimethylphthalate	ND		0.20
1,3-Dinitrobenzene	ND		0.20
2,6-Dinitrotoluene	ND		0.20
1,2-Dinitrobenzene	ND		0.20
Acenaphthylene	0.22		0.20
3-Nitroaniline	ND		0.20
2,4-Dinitrophenol	ND		0.98
Acenaphthene	ND		0.20
4-Nitrophenol	ND		0.20
2,4-Dinitrotoluene	ND		0.20
Dibenzofuran	ND		0.20
2,3,4,6-Tetrachlorophenol	ND		0.20
2,3,5,6-Tetrachlorophenol	ND		0.20
Diethylphthalate	ND		0.20
4-Chlorophenyl-phenylether	ND		0.20
4-Nitroaniline	ND		0.20
Fluorene	ND		0.20
4,6-Dinitro-2-methylphenol	ND		0.98
N-Nitrosodiphenylamine	ND		0.20
1,2-Diphenylhydrazine	ND		0.20
4-Bromophenyl-phenylether	ND		0.20
Hexachlorobenzene	ND		0.20
Pentachlorophenol	ND		0.98
Phenanthrene	0.61		0.20
Anthracene	ND		0.20
Carbazole	ND		0.20
Di-n-butylphthalate	ND		0.20
Fluoranthene	2.5		0.20

Date of Report: September 2, 2008
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Lab ID: 07-117-05
Client ID: GMX-S11-2-4

Compound:	Results	Flags	PQL
Benzidine	ND		2.0
Pyrene	2.7		0.20
Butylbenzylphthalate	ND		0.20
bis-2-Ethylhexyladipate	ND		0.20
3,3'-Dichlorobenzidine	ND		0.20
Benzo[a]anthracene	1.3		0.20
Chrysene	1.6		0.20
bis(2-Ethylhexyl)phthalate	ND		0.20
Di-n-octylphthalate	ND		0.20
Benzo[b]fluoranthene	1.1		0.20
Benzo[k]fluoranthene	1.3		0.20
Benzo[a]pyrene	1.6		0.20
Indeno[1,2,3-cd]pyrene	0.97		0.20
Dibenz[a,h]anthracene	0.29		0.20
Benzo[g,h,i]perylene	1.1		0.20

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	53	26 - 91
Phenol-d6	63	34 - 100
Nitrobenzene-d5	59	24 - 107
2-Fluorobiphenyl	53	36 - 99
2,4,6-Tribromophenol	65	37 - 127
Terphenyl-d14	47	Q 48 - 111

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
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Date Extracted: 7-30-08
 Date Analyzed: 8-1-08

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: 07-117-08
 Client ID: **GMX-S6-4-6**

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.18
Pyridine	ND		0.18
Phenol	ND		0.18
Aniline	ND		0.18
bis(2-Chloroethyl)ether	ND		0.18
2-Chlorophenol	ND		0.18
1,3-Dichlorobenzene	ND		0.18
1,4-Dichlorobenzene	ND		0.18
Benzyl alcohol	ND		0.18
1,2-Dichlorobenzene	ND		0.18
2-Methylphenol (o-Cresol)	ND		0.18
bis(2-Chloroisopropyl)ether	ND		0.18
(3+4)-Methylphenol (m,p-Cresol)	0.21		0.18
N-Nitroso-di-n-propylamine	ND		0.18
Hexachloroethane	ND		0.18
Nitrobenzene	ND		0.18
Isophorone	ND		0.18
2-Nitrophenol	ND		0.18
2,4-Dimethylphenol	ND		0.18
bis(2-Chloroethoxy)methane	ND		0.18
2,4-Dichlorophenol	ND		0.18
1,2,4-Trichlorobenzene	ND		0.18
Naphthalene	0.26		0.18
4-Chloroaniline	ND		0.18
Hexachlorobutadiene	ND		0.18
4-Chloro-3-methylphenol	ND		0.18
2-Methylnaphthalene	ND		0.18
1-Methylnaphthalene	ND		0.18

Date of Report: September 2, 2008
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Lab ID: 07-117-08
 Client ID: **GMX-S6-4-6**

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.18
2,4,6-Trichlorophenol	ND		0.18
2,3-Dichloroaniline	ND		0.18
2,4,5-Trichlorophenol	ND		0.18
2-Chloronaphthalene	ND		0.18
2-Nitroaniline	ND		0.18
1,4-Dinitrobenzene	ND		0.18
Dimethylphthalate	ND		0.18
1,3-Dinitrobenzene	ND		0.18
2,6-Dinitrotoluene	ND		0.18
1,2-Dinitrobenzene	ND		0.18
Acenaphthylene	ND		0.18
3-Nitroaniline	ND		0.18
2,4-Dinitrophenol	ND		0.88
Acenaphthene	ND		0.18
4-Nitrophenol	ND		0.18
2,4-Dinitrotoluene	ND		0.18
Dibenzofuran	ND		0.18
2,3,4,6-Tetrachlorophenol	ND		0.18
2,3,5,6-Tetrachlorophenol	ND		0.18
Diethylphthalate	ND		0.18
4-Chlorophenyl-phenylether	ND		0.18
4-Nitroaniline	ND		0.18
Fluorene	ND		0.18
4,6-Dinitro-2-methylphenol	ND		0.88
N-Nitrosodiphenylamine	ND		0.18
1,2-Diphenylhydrazine	ND		0.18
4-Bromophenyl-phenylether	ND		0.18
Hexachlorobenzene	ND		0.18
Pentachlorophenol	ND		0.88
Phenanthrene	1.1		0.18
Anthracene	0.28		0.18
Carbazole	ND		0.18
Di-n-butylphthalate	2.5		0.18
Fluoranthene	0.81		0.18

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

SEMIVOLATILES by EPA 8270D/SIM
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Lab ID: 07-117-08
Client ID: GMX-S6-4-6

Compound:	Results	Flags	PQL
Benzidine	ND		1.8
Pyrene	1.4		0.18
Butylbenzylphthalate	ND		0.18
bis-2-Ethylhexyladipate	ND		0.18
3,3'-Dichlorobenzidine	ND		0.18
Benzo[a]anthracene	0.42		0.18
Chrysene	0.49		0.18
bis(2-Ethylhexyl)phthalate	2.3		0.18
Di-n-octylphthalate	ND		0.18
Benzo[b]fluoranthene	0.39		0.18
Benzo[k]fluoranthene	0.30		0.18
Benzo[a]pyrene	0.48		0.18
Indeno[1,2,3-cd]pyrene	0.44		0.18
Dibenz[a,h]anthracene	ND		0.18
Benzo[g,h,i]perylene	0.57		0.18

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	65	26 - 91
Phenol-d6	67	34 - 100
Nitrobenzene-d5	62	24 - 107
2-Fluorobiphenyl	57	36 - 99
2,4,6-Tribromophenol	70	37 - 127
Terphenyl-d14	65	48 - 111

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

SEMIVOLATILES by EPA 8270D/SIM
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Date Extracted: 7-30-08
 Date Analyzed: 8-1-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 07-117-16
 Client ID: **GMX-S9-2-4**

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.083
Pyridine	ND		0.083
Phenol	ND		0.083
Aniline	ND		0.083
bis(2-Chloroethyl)ether	ND		0.083
2-Chlorophenol	ND		0.083
1,3-Dichlorobenzene	ND		0.083
1,4-Dichlorobenzene	ND		0.083
Benzyl alcohol	ND		0.083
1,2-Dichlorobenzene	ND		0.083
2-Methylphenol (o-Cresol)	ND		0.083
bis(2-Chloroisopropyl)ether	ND		0.083
(3+4)-Methylphenol (m,p-Cresol)	ND		0.083
N-Nitroso-di-n-propylamine	ND		0.083
Hexachloroethane	ND		0.083
Nitrobenzene	ND		0.083
Isophorone	ND		0.083
2-Nitrophenol	ND		0.083
2,4-Dimethylphenol	ND		0.083
bis(2-Chloroethoxy)methane	ND		0.083
2,4-Dichlorophenol	ND		0.083
1,2,4-Trichlorobenzene	ND		0.083
Naphthalene	0.098		0.083
4-Chloroaniline	ND		0.083
Hexachlorobutadiene	ND		0.083
4-Chloro-3-methylphenol	ND		0.083
2-Methylnaphthalene	ND		0.083
1-Methylnaphthalene	ND		0.083

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

SEMIVOLATILES by EPA 8270D/SIM
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Lab ID: 07-117-16
 Client ID: **GMX-S9-2-4**

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.083
2,4,6-Trichlorophenol	ND		0.083
2,3-Dichloroaniline	ND		0.083
2,4,5-Trichlorophenol	ND		0.083
2-Chloronaphthalene	ND		0.083
2-Nitroaniline	ND		0.083
1,4-Dinitrobenzene	ND		0.083
Dimethylphthalate	ND		0.083
1,3-Dinitrobenzene	ND		0.083
2,6-Dinitrotoluene	ND		0.083
1,2-Dinitrobenzene	ND		0.083
Acenaphthylene	0.096		0.083
3-Nitroaniline	ND		0.083
2,4-Dinitrophenol	ND		0.42
Acenaphthene	0.10		0.083
4-Nitrophenol	ND		0.083
2,4-Dinitrotoluene	ND		0.083
Dibenzofuran	ND		0.083
2,3,4,6-Tetrachlorophenol	ND		0.083
2,3,5,6-Tetrachlorophenol	ND		0.083
Diethylphthalate	ND		0.083
4-Chlorophenyl-phenylether	ND		0.083
4-Nitroaniline	ND		0.083
Fluorene	ND		0.083
4,6-Dinitro-2-methylphenol	ND		0.42
N-Nitrosodiphenylamine	ND		0.083
1,2-Diphenylhydrazine	ND		0.083
4-Bromophenyl-phenylether	ND		0.083
Hexachlorobenzene	ND		0.083
Pentachlorophenol	ND		0.42
Phenanthrene	0.68		0.083
Anthracene	0.17		0.083
Carbazole	0.094		0.083
Di-n-butylphthalate	ND		0.083
Fluoranthene	0.67		0.083

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

SEMIVOLATILES by EPA 8270D/SIM
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Lab ID: 07-117-16
Client ID: GMX-S9-2-4

Compound:	Results	Flags	PQL
Benzidine	ND		0.83
Pyrene	0.86		0.083
Butylbenzylphthalate	ND		0.083
bis-2-Ethylhexyladipate	ND		0.083
3,3'-Dichlorobenzidine	ND		0.083
Benzo[a]anthracene	0.31		0.083
Chrysene	0.45		0.083
bis(2-Ethylhexyl)phthalate	ND		0.083
Di-n-octylphthalate	ND		0.083
Benzo[b]fluoranthene	0.35		0.083
Benzo[k]fluoranthene	0.36		0.083
Benzo[a]pyrene	0.43		0.083
Indeno[1,2,3-cd]pyrene	0.39		0.083
Dibenz[a,h]anthracene	0.093		0.083
Benzo[g,h,i]perylene	0.46		0.083

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	42	26 - 91
Phenol-d6	44	34 - 100
Nitrobenzene-d5	42	24 - 107
2-Fluorobiphenyl	42	36 - 99
2,4,6-Tribromophenol	46	37 - 127
Terphenyl-d14	42	48 - 111

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 1 of 3

Date Extracted: 7-30-08
 Date Analyzed: 8-1&6-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0730S1

Compound:	Results	Flags	PQL
N-Nitrosodimethylamine	ND		0.033
Pyridine	ND		0.033
Phenol	ND		0.033
Aniline	ND		0.033
bis(2-Chloroethyl)ether	ND		0.033
2-Chlorophenol	ND		0.033
1,3-Dichlorobenzene	ND		0.033
1,4-Dichlorobenzene	ND		0.033
Benzyl alcohol	ND		0.033
1,2-Dichlorobenzene	ND		0.033
2-Methylphenol (o-Cresol)	ND		0.033
bis(2-Chloroisopropyl)ether	ND		0.033
(3+4)-Methylphenol (m,p-Cresol)	ND		0.033
N-Nitroso-di-n-propylamine	ND		0.033
Hexachloroethane	ND		0.033
Nitrobenzene	ND		0.033
Isophorone	ND		0.033
2-Nitrophenol	ND		0.033
2,4-Dimethylphenol	ND		0.033
bis(2-Chloroethoxy)methane	ND		0.033
2,4-Dichlorophenol	ND		0.033
1,2,4-Trichlorobenzene	ND		0.033
Naphthalene	ND		0.0067
4-Chloroaniline	ND		0.033
Hexachlorobutadiene	ND		0.033
4-Chloro-3-methylphenol	ND		0.033
2-Methylnaphthalene	ND		0.0067
1-Methylnaphthalene	ND		0.0067

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Lab ID: MB0730S1

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.033
2,4,6-Trichlorophenol	ND		0.033
2,3-Dichloroaniline	ND		0.033
2,4,5-Trichlorophenol	ND		0.033
2-Chloronaphthalene	ND		0.033
2-Nitroaniline	ND		0.033
1,4-Dinitrobenzene	ND		0.033
Dimethylphthalate	ND		0.033
1,3-Dinitrobenzene	ND		0.033
2,6-Dinitrotoluene	ND		0.033
1,2-Dinitrobenzene	ND		0.033
Acenaphthylene	ND		0.0067
3-Nitroaniline	ND		0.033
2,4-Dinitrophenol	ND		0.17
Acenaphthene	ND		0.0067
4-Nitrophenol	ND		0.033
2,4-Dinitrotoluene	ND		0.033
Dibenzofuran	ND		0.033
2,3,4,6-Tetrachlorophenol	ND		0.033
2,3,5,6-Tetrachlorophenol	ND		0.033
Diethylphthalate	ND		0.033
4-Chlorophenyl-phenylether	ND		0.033
4-Nitroaniline	ND		0.033
Fluorene	ND		0.0067
4,6-Dinitro-2-methylphenol	ND		0.17
N-Nitrosodiphenylamine	ND		0.033
1,2-Diphenylhydrazine	ND		0.033
4-Bromophenyl-phenylether	ND		0.033
Hexachlorobenzene	ND		0.033
Pentachlorophenol	ND		0.17
Phenanthrene	ND		0.0067
Anthracene	ND		0.0067
Carbazole	ND		0.033
Di-n-butylphthalate	ND		0.033
Fluoranthene	ND		0.0067

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Lab ID: MB0730S1

Compound:	Results	Flags	PQL
Benzidine	ND		0.33
Pyrene	ND		0.0067
Butylbenzylphthalate	ND		0.033
bis-2-Ethylhexyladipate	ND		0.033
3,3'-Dichlorobenzidine	ND		0.033
Benzo[a]anthracene	ND		0.0067
Chrysene	ND		0.0067
bis(2-Ethylhexyl)phthalate	ND		0.033
Di-n-octylphthalate	ND		0.033
Benzo[b]fluoranthene	ND		0.0067
Benzo[k]fluoranthene	ND		0.0067
Benzo[a]pyrene	ND		0.0067
Indeno[1,2,3-cd]pyrene	ND		0.0067
Dibenz[a,h]anthracene	ND		0.0067
Benzo[g,h,i]perylene	ND		0.0067

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	47	26 - 91
Phenol-d6	51	34 - 100
Nitrobenzene-d5	48	24 - 107
2-Fluorobiphenyl	46	36 - 99
2,4,6-Tribromophenol	67	37 - 127
Terphenyl-d14	65	48 - 111

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Date Extracted: 7-30-08
 Date Analyzed: 8-1-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: SB0730S1

Compound:	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
Phenol	1.33	0.559	42	0.694	52	34-96	
2-Chlorophenol	1.33	0.516	39	0.631	47	30-100	
1,4-Dichlorobenzene	0.667	0.204	31	0.244	37	27-85	
N-Nitroso-di-n-propylamine	0.667	0.262	39	0.302	45	32-99	
1,2,4-Trichlorobenzene	0.667	0.214	32	0.258	39	30-85	
4-Chloro-3-methylphenol	1.33	0.755	57	0.768	58	45-105	
Acenaphthene	0.667	0.306	46	0.339	51	33-91	
2,4-Dinitrotoluene	0.667	0.508	76	0.459	69	41-122	
4-Nitrophenol	1.33	1.17	88	0.907	68	56-116	
Pentachlorophenol	1.33	1.02	77	0.683	51	44-130	
Pyrene	0.667	0.503	75	0.429	64	56-108	

	RPD	RPD Limits	Flags
Phenol	22	31	
2-Chlorophenol	20	36	
1,4-Dichlorobenzene	18	35	
N-Nitroso-di-n-propylamine	14	33	
1,2,4-Trichlorobenzene	18	31	
4-Chloro-3-methylphenol	2	22	
Acenaphthene	10	25	
2,4-Dinitrotoluene	10	30	
4-Nitrophenol	25	30	
Pentachlorophenol	40	30	L
Pyrene	16	16	

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**SEMIVOLATILES by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-30-08
 Date Analyzed: 8-4-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 07-117-16

Compound:	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
Phenol	ND	1.33	0.685	52	0.869	65	36-97	
2-Chlorophenol	ND	1.33	0.643	48	0.822	62	30-101	
1,4-Dichlorobenzene	ND	0.667	0.217	33	0.293	44	20-82	
N-Nitroso-di-n-propylamine	ND	0.667	0.315	47	0.404	61	31-99	
1,2,4-Trichlorobenzene	ND	0.667	0.272	41	0.353	53	22-85	
4-Chloro-3-methylphenol	ND	1.33	0.651	49	0.830	62	49-107	I
Acenaphthene	ND	0.667	0.287	43	0.396	59	32-95	
2,4-Dinitrotoluene	ND	0.667	0.182	27	0.137	21	39-121	I
4-Nitrophenol	ND	1.33	0.42	32	0.464	35	27-116	
Pentachlorophenol	ND	1.33	0.51	38	0.438	33	30-139	
Pyrene	0.3	0.667	0.679	54	0.545	34	34-122	

	RPD	RPD Limits	Flags
Phenol	24	34	
2-Chlorophenol	24	40	
1,4-Dichlorobenzene	30	38	
N-Nitroso-di-n-propylamine	25	34	
1,2,4-Trichlorobenzene	26	33	
4-Chloro-3-methylphenol	24	26	
Acenaphthene	32	26	L
2,4-Dinitrotoluene	28	30	L
4-Nitrophenol	10	30	
Pentachlorophenol	14	30	
Pyrene	22	22	

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S26-2-4					
Laboratory ID:	07-117-02					
Naphthalene	0.014	0.010	EPA 8270/SIM	7-30-08	7-31-08	
2-Methylnaphthalene	ND	0.010	EPA 8270/SIM	7-30-08	7-31-08	
1-Methylnaphthalene	ND	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthylene	0.018	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthene	ND	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Fluorene	ND	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Phenanthrene	0.047	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Anthracene	0.035	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Fluoranthene	0.15	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Pyrene	0.20	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[a]anthracene	0.079	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Chrysene	0.18	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[b]fluoranthene	0.15	0.052	EPA 8270/SIM	7-30-08	8-7-08	
Benzo[k]fluoranthene	0.052	0.052	EPA 8270/SIM	7-30-08	8-7-08	
Benzo[a]pyrene	0.062	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Indeno(1,2,3-c,d)pyrene	0.026	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[g,h,i]perylene	0.028	0.010	EPA 8270/SIM	7-30-08	7-31-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>74</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>91</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>54 - 126</i>				

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**PAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0730S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Fluorene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Phenanthrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Anthracene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Fluoranthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Pyrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Chrysene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>73</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>54 - 126</i>				

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
Laboratory ID:	SB0730S1									
Naphthalene	0.0595	0.0598	0.0833	0.0833	71	72	45 - 94	1	24	
Acenaphthylene	0.0639	0.0655	0.0833	0.0833	77	79	51 - 104	2	25	
Acenaphthene	0.0657	0.0672	0.0833	0.0833	79	81	53 - 103	2	21	
Fluorene	0.0668	0.0678	0.0833	0.0833	80	81	57 - 107	1	19	
Phenanthrene	0.0703	0.0691	0.0833	0.0833	84	83	61 - 104	2	17	
Anthracene	0.0656	0.0647	0.0833	0.0833	79	78	58 - 102	1	14	
Fluoranthene	0.0748	0.0736	0.0833	0.0833	90	88	69 - 109	2	27	
Pyrene	0.0777	0.0764	0.0833	0.0833	93	92	71 - 114	2	27	
Benzo[a]anthracene	0.0779	0.0759	0.0833	0.0833	94	91	61 - 123	3	18	
Chrysene	0.0807	0.0792	0.0833	0.0833	97	95	66 - 124	2	19	
Benzo[b]fluoranthene	0.0760	0.0741	0.0833	0.0833	91	89	72 - 114	3	26	
Benzo[k]fluoranthene	0.0764	0.0729	0.0833	0.0833	92	88	70 - 115	5	17	
Benzo[a]pyrene	0.0658	0.0636	0.0833	0.0833	79	76	57 - 104	3	18	
Indeno(1,2,3-c,d)pyrene	0.0727	0.0725	0.0833	0.0833	87	87	63 - 121	0	20	
Dibenz[a,h]anthracene	0.0713	0.0708	0.0833	0.0833	86	85	62 - 125	1	15	
Benzo[g,h,i]perylene	0.0713	0.0705	0.0833	0.0833	86	85	64 - 117	1	21	
<i>Surrogate:</i>										
Nitrobenzene-d5					77	77	39 - 110			
2-Fluorobiphenyl					78	79	41 - 107			
Terphenyl-d14					92	91	54 - 126			

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

VOLATILES by EPA 8260B

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Date Extracted: 7-17-08
 Date Analyzed: 7-17-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 07-117-07
 Client ID: **GMX-S6-2-4**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.012
Chloromethane	ND		0.062
Vinyl Chloride	ND		0.012
Bromomethane	ND		0.012
Chloroethane	ND		0.062
Trichlorofluoromethane	ND		0.012
1,1-Dichloroethene	ND		0.012
Acetone	0.83		0.062
Iodomethane	ND		0.062
Carbon Disulfide	0.086		0.012
Methylene Chloride	ND		0.062
(trans) 1,2-Dichloroethene	ND		0.012
Methyl t-Butyl Ether	ND		0.012
1,1-Dichloroethane	ND		0.012
Vinyl Acetate	ND		0.062
2,2-Dichloropropane	ND		0.012
(cis) 1,2-Dichloroethene	ND		0.012
2-Butanone	0.20		0.062
Bromochloromethane	ND		0.012
Chloroform	ND		0.012
1,1,1-Trichloroethane	ND		0.012
Carbon Tetrachloride	ND		0.012
1,1-Dichloropropene	ND		0.012
Benzene	ND		0.012
1,2-Dichloroethane	ND		0.012
Trichloroethene	ND		0.012
1,2-Dichloropropane	ND		0.012
Dibromomethane	ND		0.012
Bromodichloromethane	ND		0.012
2-Chloroethyl Vinyl Ether	ND		0.062
(cis) 1,3-Dichloropropene	ND		0.012
Methyl Isobutyl Ketone	ND		0.062
Toluene	ND		0.062
(trans) 1,3-Dichloropropene	ND		0.012

Date of Report: September 2, 2008
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Lab ID: 07-117-07
 Client ID: **GMX-S6-2-4**

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.012
Tetrachloroethene	ND		0.012
1,3-Dichloropropane	ND		0.012
2-Hexanone	ND		0.062
Dibromochloromethane	ND		0.012
1,2-Dibromoethane	ND		0.012
Chlorobenzene	ND		0.012
1,1,1,2-Tetrachloroethane	ND		0.012
Ethylbenzene	ND		0.012
m,p-Xylene	ND		0.025
o-Xylene	ND		0.012
Styrene	ND		0.012
Bromoform	ND		0.012
Isopropylbenzene	ND		0.012
Bromobenzene	ND		0.012
1,1,2,2-Tetrachloroethane	ND		0.012
1,2,3-Trichloropropane	ND		0.012
n-Propylbenzene	ND		0.012
2-Chlorotoluene	ND		0.012
4-Chlorotoluene	ND		0.012
1,3,5-Trimethylbenzene	ND		0.012
tert-Butylbenzene	ND		0.012
1,2,4-Trimethylbenzene	ND		0.012
sec-Butylbenzene	ND		0.012
1,3-Dichlorobenzene	ND		0.012
p-Isopropyltoluene	ND		0.012
1,4-Dichlorobenzene	ND		0.012
1,2-Dichlorobenzene	ND		0.012
n-Butylbenzene	ND		0.012
1,2-Dibromo-3-chloropropane	ND		0.062
1,2,4-Trichlorobenzene	ND		0.012
Hexachlorobutadiene	ND		0.062
Naphthalene	ND		0.012
1,2,3-Trichlorobenzene	ND		0.012

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	96	70-118
Toluene-d8	85	70-121
4-Bromofluorobenzene	65	70-130

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
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VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

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Date Extracted: 7-17-08
 Date Analyzed: 7-17-08
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0717S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0050
Iodomethane	ND		0.0050
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0050
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0050
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0050
Toluene	ND		0.0050
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
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VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

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Lab ID: MB0717S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
2-Hexanone	ND		0.0050
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0020
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	95		70-118
Toluene-d8	89		70-121
4-Bromofluorobenzene	85		70-130

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 7-17-08
 Date Analyzed: 7-17-08
 Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0717S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0608	122	0.0606	121	70-130	
Benzene	0.0500	0.0533	107	0.0534	107	70-127	
Trichloroethene	0.0500	0.0484	97	0.0478	96	73-117	
Toluene	0.0500	0.0520	104	0.0533	107	78-115	
Chlorobenzene	0.0500	0.0425	85	0.0423	85	80-117	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	0	10	
Benzene	0	11	
Trichloroethene	1	13	
Toluene	2	12	
Chlorobenzene	1	10	

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

VOLATILES by EPA 8260B

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Date Extracted: 7-17-08
 Date Analyzed: 7-17-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 07-117-18
 Client ID: **GMX-S9-W**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	0.44		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
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Lab ID: 07-117-18
 Client ID: **GMX-S9-W**

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	94	70-123

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

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Date Extracted: 7-17-08
 Date Analyzed: 7-17-08
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0717W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

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VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

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Lab ID: MB0717W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	86	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	91	70-123

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 7-17-08
 Date Analyzed: 7-17-08

Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0717W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	10.0	11.1	111	11.0	110	70-130	
Benzene	10.0	9.95	100	9.87	99	70-130	
Trichloroethene	10.0	11.0	110	10.8	108	70-116	
Toluene	10.0	10.4	104	10.6	106	76-119	
Chlorobenzene	10.0	8.87	89	8.93	89	77-112	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	2	20	
Benzene	1	16	
Trichloroethene	1	16	
Toluene	1	15	
Chlorobenzene	1	15	

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

VOLATILE PETROLEUM HYDROCARBONS

Date Extracted: 7-18-08

Date Analyzed: 7-31-08

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: 07-117-16

Client ID: **GMX-S9-2-4**

VPH:	Results	PQL
Aliphatic C5-C6	ND	5.0
Aliphatic C6-C8	ND	5.0
Aliphatic C8-C10	ND	5.0
Aliphatic C10-C12	ND	5.0
Total Aliphatic:	NA	
Aromatic C8-C10	ND	5.0
Aromatic C10-C12	ND	5.0
Aromatic C12-C13	ND	5.0
Total Aromatic:	NA	

Target Analytes:

Methyl t-butyl ether	ND	0.50
Benzene	ND	0.037
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50

Surrogate:	Percent Recovery	Control Limits
Fluorobenzene	54	60-129

Flags: Q

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**VOLATILE PETROLEUM HYDROCARBONS
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-18-08
 Date Analyzed: 7-31-08

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID: MB0718S3

VPH:	Results	PQL
Aliphatic C5-C6	ND	5.0
Aliphatic C6-C8	ND	5.0
Aliphatic C8-C10	ND	5.0
Aliphatic C10-C12	ND	5.0
Total Aliphatic:	NA	
Aromatic C8-C10	ND	5.0
Aromatic C10-C12	ND	5.0
Aromatic C12-C13	ND	5.0
Total Aromatic:	NA	
Target Analytes:		
Methyl t-butyl ether	ND	0.50
Benzene	ND	0.020
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50

Surrogate:	Percent Recovery	Control Limits
Fluorobenzene	89	60-129

Flags:

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**VOLATILE PETROLEUM HYDROCARBONS
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-18-08

Date Analyzed: 7-31-08

Matrix: Soil

Units: mg/Kg (ppm)

Spike Level (ppm): 4.51

Lab ID: 07-117-05 MS

07-117-05 MSD

	Result	Percent Recovery	Result	Percent Recovery	PQL	RPD
Benzene	4.32	96	4.45	99	0.11	3
Toluene	4.40	98	4.54	101	0.53	3
Ethylbenzene	4.44	98	4.54	101	0.53	2
m,p-Xylene	4.45	99	4.57	101	0.53	3
o-Xylene	4.47	99	4.59	102	0.53	3

Surrogate:	Percent Recovery	Percent Recovery	Control Limits
Fluorobenzene	20	21	60-129

Flags: Q Q

Date of Report: September 2, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-117
 Project: 10654.000

**VOLATILE PETROLEUM HYDROCARBONS
 SPIKE BLANK QUALITY CONTROL**

Date Extracted: 7-18-08
 Date Analyzed: 7-31-08

Matrix: Soil
 Units: mg/Kg (ppm)

Spike Level (ppm): 1.00

Lab ID: SB0718S2

	Result	Percent Recovery	PQL
Benzene	0.879	88	0.020
Toluene	0.907	91	0.50
Ethylbenzene	0.912	91	0.50
m,p-Xylene	0.919	92	0.50
o-Xylene	0.917	92	0.50

Surrogate:	Percent Recovery	Control Limits
Fluorobenzene	88	60-129

Date of Report: September 2, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-117
Project: 10654.000

% MOISTURE

Date Analyzed: 7-17&30&8-1-08

Client ID	Lab ID	% Moisture
GMX-S26-2-4	07-117-02	36
GMX-S26-4-6	07-117-03	15
GMX-S11-2-4	07-117-05	83
GMX-S6-2-4	07-117-07	86
GMX-S6-4-6	07-117-08	81
GMX-S7-2-4	07-117-10	85
GMX-S7-4-6	07-117-11	86
GMX-S20-0-1	07-117-12	25
GMX-S20-2-4	07-117-13	23
GMX-S9-2-4	07-117-16	60
GMX-S9-4-6	07-117-17	50
GMX-S31-4-6	07-117-19	17
GMX-MW4-0-1.5	07-117-20	22
GMX-MW4-6-7.5	07-117-21	54



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

CHAIN-OF-CUSTODY RECORD

07-117

SEA 10143

PROJECT NAME: Custom fly wood
 PROJECT NUMBER: 10654.000
 RESULTS TO: Zanna Sattenwhite
 TURNAROUND TIME: 5-day
 SAMPLE SHIPMENT METHOD: hand-delivered

LABORATORY NAME: On Site Environmental
 LABORATORY ADDRESS: 11648 NE 95th St.
 Redmond, WA 98052
 LABORATORY CONTACT: David Baummeister
 LABORATORY PHONE NUMBER: 425 883 3881

CLIENT INFORMATION: GBH Investments LLC

DATE: 7/16/08
 REPORTING REQUIREMENTS: PAGE 2 OF 2

GEOTRACKER REQUIRED: YES NO
 SITE SPECIFIC GLOBAL ID NO.

DATE	TIME	SAMPLE NUMBER	TPH-DX	TPH-5/BTEX	TC-Fluor 1981	Metals APMTs	PCBs-8082	SVOCs-8270	CPATHs-8270	HexCh-3500	VOCs-8260	EPN/NPH	Dm Wt.	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
7/16/08	1225	GMX-59-2-7	X	X	X	X	X	X	X	X	X	X	X	402; 40ml VOA	S	no	no	X	6		
7/16/08	1230	GMX-59-4-6	X	X	X	X	X	X	X	X	X	X	X	402 jar	S	no	no	X	2		
7/16/08	1320	GMX-59-W	X	X	X	X	X	X	X	X	X	X	X	50ml poly, 11 number, 40ml VOA	W	no	no	X	9	- NOT PRESERVED	
7/16/08	1520	GMX-S31-4-6	X	X	X	X	X	X	X	X	X	X	X	402; 40 ml VOA	S	no	no	X	6		
7/16/08	1505	GMX-MW4-0-15	X	X	X	X	X	X	X	X	X	X	X	402 jar	S	no	no	X	2		
7/16/08	1510	GMX-MW4-6-7.5	X	X	X	X	X	X	X	X	X	X	X	402 jar	S	no	no	X	2		
7/16/08	1515	GMX-MW4-12-13.5	X	X	X	X	X	X	X	X	X	X	X	402 jar	S	no	no	X	2		

ANALYSES: 7/16/08 2:45 PM

RELINQUISHED BY: Zanna Sattenwhite (Artec)
 RECEIVED BY: David Baummeister (GBE)
 DATE: 7/16/08 1725

SAMPLING COMMENTS: None of the samples are preserved. extract or freeze VOA contents w/i 48 hrs of sample collection. See QAPP Table 1 for low reporting limit requirements for all analytes. Wood in samples. Please call Zanna w/TPH-DX results ASAP.

One Union Square, 600 University Street, Suite 1020
 Seattle, Washington 98101-4107
 Tel 206.342.1760 Fax 206.342.1761

Geomatrix



Analytical Resources, Incorporated

Analytical Chemists and Consultants

27 August 2008

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 10654.000
ARI Job No: NI39

Dear David:

Please find enclosed the original Chain-of-Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. accepted seven soil samples on July 31, 2008. The samples were received intact. The samples were analyzed for EPH and TOC as requested.

There were no problems with these analyses.

An electronic copy of this package will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink that reads "Mark D. Harris".

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file NI39

MDH/mdh

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET
Aliphatic/Aromatic GC-EPH
Page 1 of 1

Sample ID: MB-080108
METHOD BLANK

Lab Sample ID: MB-080108
LIMS ID: 08-18341
Matrix: Soil
Data Release Authorized:
Reported: 08/13/08

QC Report No: NI39-OnSite Environmental, Inc.
Project: 10654.000
Date Sampled: NA
Date Received: NA

Date Extracted: 08/01/08
Percent Moisture: NA

Sample Amount: 10.0 g-as-rec
Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 08/07/08 23:23
Instrument/Analyst: FID4B/MS

Dilution Factor: 1.00

Aromatic

Date Analyzed: 08/07/08 20:03
Instrument/Analyst: FID4A/MS

Dilution Factor: 1.00

Range	RL	Result
C8-C10 Aliphatics	2,000	< 2,000 U
C10-C12 Aliphatics	2,000	< 2,000 U
C12-C16 Aliphatics	2,000	< 2,000 U
C16-C21 Aliphatics	2,000	< 2,000 U
C21-C34 Aliphatics	2,000	< 2,000 U
C8-C10 Aromatics	2,000	< 2,000 U
C10-C12 Aromatics	2,000	< 2,000 U
C12-C16 Aromatics	2,000	< 2,000 U
C16-C21 Aromatics	2,000	< 2,000 U
C21-C34 Aromatics	2,000	< 2,000 U


Reported in $\mu\text{g}/\text{kg}$ (ppb)

EPH Surrogate Recovery

Aliphatic	1-Chlorooctadecane	90.7%
Aromatic	Ortho-terphenyl	82.9%

ORGANICS ANALYSIS DATA SHEET
Aliphatic/Aromatic GC-EPH
Page 1 of 1

Sample ID: GMX-S9-2-4
SAMPLE

Lab Sample ID: NI39E
LIMS ID: 08-18341
Matrix: Soil
Data Release Authorized: 
Reported: 08/13/08

QC Report No: NI39-OnSite Environmental, Inc.
Project: 10654.000
Date Sampled: 07/16/08
Date Received: 07/31/08

Date Extracted: 08/01/08
Percent Moisture: 53.6%

Sample Amount: 4.65 g-dry-wt
Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 08/08/08 19:37
Instrument/Analyst: FID4B/MS

Dilution Factor: 1.00

Aromatic

Date Analyzed: 08/07/08 19:59
Instrument/Analyst: FID4A/MS

Dilution Factor: 1.00

Range	RL	Result
C8-C10 Aliphatics	4,300	< 4,300 U
C10-C12 Aliphatics	4,300	< 4,300 U
C12-C16 Aliphatics	4,300	< 4,300 U
C16-C21 Aliphatics	4,300	84,000
C21-C34 Aliphatics	4,300	1,400,000
C8-C10 Aromatics	4,300	< 4,300 U
C10-C12 Aromatics	4,300	< 4,300 U
C12-C16 Aromatics	4,300	< 4,300 U
C16-C21 Aromatics	4,300	31,000
C21-C34 Aromatics	4,300	360,000

Reported in $\mu\text{g}/\text{kg}$ (ppb)

EPH Surrogate Recovery

Aliphatic	1-Chlorooctadecane	90.4%
Aromatic	Ortho-terphenyl	95.3%

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH

Page 1 of 1

Sample ID: LCS-080108
LAB CONTROL

Lab Sample ID: LCS-080108

LIMS ID: 08-18341

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 08/13/08

QC Report No: NI39-OnSite Environmental, Inc.
Project: 10654.000

Date Sampled: NA

Date Received: NA

Date Extracted: 08/01/08

Sample Amount: 10.0 g-as-rec
Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 08/07/08 23:45

Instrument/Analyst: FID4B/MS

Dilution Factor: 1.00

Aromatic

Date Analyzed: 08/07/08 20:25

Instrument/Analyst: FID4A/MS

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
C8-C10 Aliphatics	11000	15000	73.3%
C10-C12 Aliphatics	13000	15000	86.7%
C12-C16 Aliphatics	16000	15000	107%
C16-C21 Aliphatics	17000	15000	113%
C10-C12 Aromatics	10200	15000	68.0%
C12-C16 Aromatics	13500	15000	90.0%
C16-C21 Aromatics	29200	30000	97.3%
C21-C34 Aromatics	30300	30000	101%

Results reported in $\mu\text{g}/\text{kg}$

EPH Surrogate Recovery

Aliphatic	1-Chlorooctadecane	94.0%
Aromatic	Ortho-terphenyl	83.3%

METHOD BLANK RESULTS-CONVENTIONALS
NI39-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/04/08	Percent	< 0.01 U
	08/04/08		< 0.01 U
	08/04/08		< 0.01 U
	08/04/08		< 0.01 U
Total Organic Carbon	08/26/08	Percent	< 0.020 U

SAMPLE RESULTS-CONVENTIONALS
NI39-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: 07/16/08
Date Received: 07/31/08


Client ID: GMX-S26-4-6
ARI ID: 08-18337 NI39A

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/04/08 080408#1	EPA 160.3	Percent	0.01	92.10
Total Organic Carbon	08/26/08 082608#1	Plumb, 1981	Percent	0.020	1.68

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI39-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: 07/16/08
Date Received: 07/31/08


Client ID: GMX-S6-4-6
ARI ID: 08-18338 NI39B

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/04/08 080408#1	EPA 160.3	Percent	0.01	27.80
Total Organic Carbon	08/26/08 082608#1	Plumb,1981	Percent	0.212	26.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI39-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized 
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: 07/16/08
Date Received: 07/31/08


Client ID: GMX-S7-4-6
ARI ID: 08-18339 NI39C

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/04/08 080408#1	EPA 160.3	Percent	0.01	15.60
Total Organic Carbon	08/26/08 082608#1	Plumb,1981	Percent	0.196	22.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI39-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: 07/16/08
Date Received: 07/31/08

Client ID: GMX-S9-4-6
ARI ID: 08-18340 NI39D

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/04/08 080408#1	EPA 160.3	Percent	0.01	49.80
Total Organic Carbon	08/26/08 082608#1	Plumb,1981	Percent	0.174	27.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI39-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: 07/16/08
Date Received: 07/31/08

Client ID: GMX-S20-0-1
ARI ID: 08-18342 NI39F

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/04/08 080408#1	EPA 160.3	Percent	0.01	75.30
Total Organic Carbon	08/26/08 082608#1	Plumb,1981	Percent	0.188	8.14

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI39-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: 07/16/08
Date Received: 07/31/08

Client ID: GMX-MW4-0-1.5
ARI ID: 08-18343 NI39G

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/04/08 080408#1	EPA 160.3	Percent	0.01	81.10
Total Organic Carbon	08/26/08 082608#1	Plumb, 1981	Percent	0.192	5.18

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
NI39-OnSite Environmental, Inc.




Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	08/26/08	Percent	0.521	0.500	104.2%

STANDARD REFERENCE RESULTS-CONVENTIONALS
NI39-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	08/26/08	Percent	3.84	3.35	114.6%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 August 2008

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 10654.000
ARI Job No: NG37

Dear David:

Please find enclosed the original Chain-of-Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. accepted eight soil samples and one water sample on July 18, 2008. The samples were received intact. The samples were analyzed for TOC as requested.

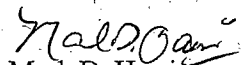
A matrix spike (MS) was prepared and analyzed in conjunction with sample GMX-S9-W. The percent recovery for TOC was low following the initial analysis of the MS. The MS was re-prepared and re-analyzed. The percent recovery was low for the re-analysis. Since the percent recoveries for TOC were within acceptable QC limits for the corresponding SRM, it was concluded that the sample matrix was the cause of the low MS recoveries. No further corrective actions were taken. The results for the re-analysis only have been submitted for the MS.

There were no further problems with these analyses.

An electronic copy of this package will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com


Enclosures

cc: file NG37

MDH/mdh

METHOD BLANK RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank
Total Organic Carbon	EPA 415.1	07/24/08	mg/L	< 1.50 U

SAMPLE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized
Reported: 08/14/08

A handwritten signature in black ink, appearing to be 'AK', written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

Client ID: GMX-S9-W
ARI ID: 08-16289 NG37G

Analyte	Date Batch	Method	Units	RL	Sample
Total Organic Carbon	07/24/08 072408#1	EPA 415.1	mg/L	15.0	174

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.




Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: NG37G Client ID: GMX-S9-W						
Total Organic Carbon	EPA 415.1	07/24/08	mg/L	174	174	0.0%

MS/MSD RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
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ARI ID: NG37G Client ID: GMX-S9-W

Total Organic Carbon	EPA 415.1	07/24/08	mg/L	174	295	200	60.5%
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STANDARD REFERENCE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Water
Data Release Authorized
Reported: 08/14/08


A handwritten signature in black ink, appearing to be 'M. K.', written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Total Organic Carbon ERA #0528-08-02	EPA 415.1	07/24/08	mg/L	19.7	20.0	98.5%

METHOD BLANK RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.




Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	07/21/08	Percent	< 0.01 U
	07/21/08		< 0.01 U
Total Organic Carbon	08/07/08	Percent	< 0.020 U
	08/11/08		< 0.020 U

SAMPLE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

Client ID: GMX-S26-2-4
ARI ID: 08-16283 NG37A

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	72.90
Total Organic Carbon	08/07/08 080708#1	Plumb,1981	Percent	0.020	5.88

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized *[Signature]*
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

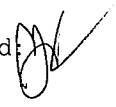
Client ID: GMX-S11-2-4
ARI ID: 08-16284 NG37B

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	16.00
Total Organic Carbon	08/07/08 080708#1	Plumb,1981	Percent	0.202	31.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

Client ID: GMX-S6-2-4
ARI ID: 08-16285 NG37C

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	15.30
Total Organic Carbon	08/11/08 081108#1	Plumb, 1981	Percent	0.200	33.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08


Client ID: GMX-S7-2-4
ARI ID: 08-16286 NG37D

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	14.70
Total Organic Carbon	08/07/08 080708#1	Plumb, 1981	Percent	0.224	36.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08


Client ID: GMX-S20-2-4
ARI ID: 08-16287 NG37E

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	77.60
Total Organic Carbon	08/07/08 080708#1	Plumb,1981	Percent	0.166	8.83

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

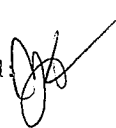
Client ID: GMX-S9-2-4
ARI ID: 08-16288 NG37F

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	49.70
Total Organic Carbon	08/07/08 080708#1	Plumb,1981	Percent	0.020	8.78

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08


Client ID: GMX-S31-4-6
ARI ID: 08-16290 NG37H

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	82.20
Total Organic Carbon	08/07/08 080708#1	Plumb, 1981	Percent	0.020	0.643

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

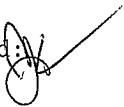
Client ID: GMX-MW4-6-7.5
ARI ID: 08-16291 NG37I

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	50.40
Total Organic Carbon	08/07/08 080708#1	Plumb, 1981	Percent	0.208	25.1

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.




Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	08/07/08	Percent	0.459	0.500	91.8%
	08/11/08		0.478	0.500	95.6%

STANDARD REFERENCE RESULTS-CONVENTIONALS
NG37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon	08/07/08	Percent	3.49	3.35	104.2%
NIST #8704	08/11/08		3.30	3.35	98.5%



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 7, 2008

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654
Laboratory Reference No. 0807-118

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on July 16, 2008.

Please note that the data for the subcontracted data will follow in the final report.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Baumeister', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

Case Narrative

Samples were collected on July 15, 2008 and received by the laboratory on July 16, 2008. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

The MTCA Method A clean-up level for Benzene of 0.030 mg/kg is not achievable for samples GMX-S15-2-4, GMX-S14-2-4, GMX-S13-2-4, and GMX-S12-2-4 due to the high moisture content of the samples.

The surrogate recovery is outside of the control limits for samples GMX-S14-2-4, GMX-S13-2-4, GMX-S12-2-4, and GMX-S4-2-4 due to sample matrix effects.

The surrogate recovery is outside of the control limits for the sample that was used for matrix spike and matrix spike duplicate due to sample matrix effects.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Total Metals EPA 6010B/7471A Analysis

The duplicate RPD for Mercury is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

PAHs EPA 8270D/SIM Analysis

Due to interference present in the sample the practical quantitation limits were raised flagged with an "U1" indicator.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

NWTPH-Dx Analysis

Samples GMX-S15-4-6, GMX-S14-4-6, and GMX-S13-4-6 were extracted out of hold time as per clients request.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

NWTPH-Gx/BTEX

Date Extracted: 7-18-08
 Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **GMX-S15-2-4** **GMX-S14-2-4**
 Lab ID: 07-118-02 07-118-05

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.033	ND		0.10
Toluene	ND		0.17	ND		0.50
Ethyl Benzene	ND		0.17	ND		0.50
m,p-Xylene	ND		0.17	ND		0.50
o-Xylene	ND		0.17	ND		0.50
TPH-Gas	ND		17	ND		50
Surrogate Recovery: Fluorobenzene	71%			44%	Q	

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

NWTPH-Gx/BTEX

Date Extracted: 7-18-08
 Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S13-2-4	GMX-S12-2-4
Lab ID:	07-118-08	07-118-11

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.076	ND		0.061
Toluene	ND		0.38	ND		0.30
Ethyl Benzene	ND		0.38	ND		0.30
m,p-Xylene	ND		0.38	ND		0.30
o-Xylene	ND		0.38	ND		0.30
TPH-Gas	ND		38	ND		30
Surrogate Recovery:						
Fluorobenzene	30%	Q		29%	Q	

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

NWTPH-Gx/BTEX

Date Extracted: 7-18-08
 Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **GMX-S4-2-4** **GMX-S5-2-4**
 Lab ID: 07-118-23 07-118-26

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.021	ND		0.020
Toluene	ND		0.11	ND		0.052
Ethyl Benzene	ND		0.11	ND		0.052
m,p-Xylene	ND		0.11	ND		0.052
o-Xylene	ND		0.11	ND		0.052
TPH-Gas	ND		11	ND		5.2
Surrogate Recovery:						
Fluorobenzene	49%	Q		62%		

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-18-08
Date Analyzed: 7-18-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0718S4

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	86%		

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-18-08
 Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID:	07-117-19 Original	07-117-19 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	109%	78%		

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-18-08

Date Analyzed: 7-18-08

Matrix: Soil
 Units: mg/kg (ppm)

Spike Level (ppm): 4.51

Lab ID:	07-117-05 MS	Percent Recovery	07-117-05 MSD	Percent Recovery	RPD	Flags
Benzene	4.44	98	4.54	101	2	
Toluene	4.52	100	4.60	102	2	
Ethyl Benzene	4.54	101	4.62	102	2	
m,p-Xylene	4.55	101	4.61	102	1	
o-Xylene	4.55	101	4.62	103	2	
Surrogate Recovery:						
Fluorobenzene	50%		51%			Q

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

NWTPH-Dx

Date Extracted: 7-23-08
 Date Analyzed: 7-24-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S15-2-4	GMX-S14-2-4	GMX-S13-2-4
Lab ID:	07-118-02	07-118-05	07-118-08
Diesel Range:	ND	ND	ND
PQL:	10000	6900	3500
Identification:	---	---	---
Lube Oil Range:	220000	190000	70000
PQL:	13000	14000	2600
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	---	---	---
Flags:	U1,Y,S	Y,S	U1,Y,S

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

NWTPH-Dx

Date Extracted: 7-23-08
 Date Analyzed: 7-25-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S12-2-4	GMX-S1-2-4	GMX-S2-2-4
Lab ID:	07-118-11	07-118-14	07-118-17
Diesel Range:	ND	ND	ND
PQL:	110	34	37
Identification:	---	---	---
Lube Oil Range:	560	ND	99
PQL:	220	68	74
Identification:	Lube Oil	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	94%	95%	96%
Flags:	Y	Y	Y

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

NWTPH-Dx

Date Extracted: 7-23-08
 Date Analyzed: 7-24&25-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S3-2-4	GMX-S4-2-4	GMX-S5-2-4
Lab ID:	07-118-20	07-118-23	07-118-26
Diesel Range:	ND	ND	ND
PQL:	36	49	31
Identification:	---	---	---
Lube Oil Range:	ND	230	170
PQL:	72	98	62
Identification:	---	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	135%	89%	101%
Flags:	Y	Y	Y

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-23-08
Date Analyzed: 7-23-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0723S2

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 121%

Flags: Y

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-23-08
Date Analyzed: 7-25-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-118-26 07-118-26 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 101% 101%

Flags: Y Y

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

NWTPH-Dx

Date Extracted: 7-30-08
 Date Analyzed: 8-1&6-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S15-4-6	GMX-S14-4-6	GMX-S13-4-6
Lab ID:	07-118-03	07-118-06	07-118-09
Diesel Range:	ND	ND	ND
PQL:	1400	1300	4600
Identification:	---	---	---
Lube Oil Range:	22000	29000	96000
PQL:	1500	2500	5900
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	82%	---	---
Flags:	U1,Y	Y,S	U1,Y,S

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-30-08
Date Analyzed: 7-30-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0730S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 97%

Flags: Y

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-30-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-117-03 07-117-03 DUP

Diesel Range: **ND** **ND**
PQL: 500 300

RPD: N/A

Surrogate Recovery
o-Terphenyl: --- 82%

Flags: U1,Y,S U1,Y

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S13-2-4					
Laboratory ID:	07-118-08					
Naphthalene	0.035	0.035	EPA 8270/SIM	7-30-08	7-31-08	
2-Methylnaphthalene	ND	0.035	EPA 8270/SIM	7-30-08	7-31-08	
1-Methylnaphthalene	ND	0.035	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthylene	ND	0.035	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthene	ND	0.035	EPA 8270/SIM	7-30-08	7-31-08	
Fluorene	ND	0.035	EPA 8270/SIM	7-30-08	7-31-08	
Phenanthrene	0.10	0.035	EPA 8270/SIM	7-30-08	7-31-08	
Anthracene	ND	0.035	EPA 8270/SIM	7-30-08	7-31-08	
Fluoranthene	0.12	0.035	EPA 8270/SIM	7-30-08	7-31-08	
Pyrene	0.14	0.035	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[a]anthracene	ND	0.18	EPA 8270/SIM	7-30-08	8-5-08	U1
Chrysene	ND	0.18	EPA 8270/SIM	7-30-08	8-5-08	U1
Benzo[b]fluoranthene	ND	0.18	EPA 8270/SIM	7-30-08	8-5-08	U1
Benzo[k]fluoranthene	ND	0.18	EPA 8270/SIM	7-30-08	8-5-08	U1
Benzo[a]pyrene	ND	0.18	EPA 8270/SIM	7-30-08	8-5-08	U1
Indeno(1,2,3-c,d)pyrene	ND	0.18	EPA 8270/SIM	7-30-08	8-5-08	U1
Dibenz[a,h]anthracene	ND	0.18	EPA 8270/SIM	7-30-08	8-5-08	U1
Benzo[g,h,i]perylene	ND	0.18	EPA 8270/SIM	7-30-08	8-5-08	U1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>77</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>79</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>58</i>	<i>54 - 126</i>				

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**PAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0730S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Fluorene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Phenanthrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Anthracene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Fluoranthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Pyrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Chrysene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>73</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>54 - 126</i>				

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0730S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0595	0.0598	0.0833	0.0833	71	72	45 - 94	1	24	
Acenaphthylene	0.0639	0.0655	0.0833	0.0833	77	79	51 - 104	2	25	
Acenaphthene	0.0657	0.0672	0.0833	0.0833	79	81	53 - 103	2	21	
Fluorene	0.0668	0.0678	0.0833	0.0833	80	81	57 - 107	1	19	
Phenanthrene	0.0703	0.0691	0.0833	0.0833	84	83	61 - 104	2	17	
Anthracene	0.0656	0.0647	0.0833	0.0833	79	78	58 - 102	1	14	
Fluoranthene	0.0748	0.0736	0.0833	0.0833	90	88	69 - 109	2	27	
Pyrene	0.0777	0.0764	0.0833	0.0833	93	92	71 - 114	2	27	
Benzo[a]anthracene	0.0779	0.0759	0.0833	0.0833	94	91	61 - 123	3	18	
Chrysene	0.0807	0.0792	0.0833	0.0833	97	95	66 - 124	2	19	
Benzo[b]fluoranthene	0.0760	0.0741	0.0833	0.0833	91	89	72 - 114	3	26	
Benzo[k]fluoranthene	0.0764	0.0729	0.0833	0.0833	92	88	70 - 115	5	17	
Benzo[a]pyrene	0.0658	0.0636	0.0833	0.0833	79	76	57 - 104	3	18	
Indeno(1,2,3-c,d)pyrene	0.0727	0.0725	0.0833	0.0833	87	87	63 - 121	0	20	
Dibenz[a,h]anthracene	0.0713	0.0708	0.0833	0.0833	86	85	62 - 125	1	15	
Benzo[g,h,i]perylene	0.0713	0.0705	0.0833	0.0833	86	85	64 - 117	1	21	
<i>Surrogate:</i>										
Nitrobenzene-d5					77	77	39 - 110			
2-Fluorobiphenyl					78	79	41 - 107			
Terphenyl-d14					92	91	54 - 126			

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-02
 Client ID: **GMX-S15-2-4**

Analyte	Method	Result	PQL
Antimony	6020	6.5	6.3
Arsenic	6020	ND	13
Beryllium	6020	ND	0.63
Cadmium	6020	ND	0.63
Chromium	6010B	37	1.3
Copper	6010B	190	2.5
Lead	6010B	91	13
Mercury	7471A	0.075	0.013
Nickel	6010B	58	6.3
Selenium	6020	ND	0.63
Silver	6020	0.65	0.63
Thallium	6020	ND	0.13
Zinc	6010B	92	6.3

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-05
 Client ID: **GMX-S14-2-4**

Analyte	Method	Result	PQL
Antimony	6020	8.7	5.6
Arsenic	6020	ND	14
Beryllium	6020	ND	0.56
Cadmium	6020	0.58	0.56
Chromium	6010B	24	2.8
Copper	6010B	220	5.6
Lead	6010B	230	28
Mercury	7471A	0.089	0.028
Nickel	6010B	21	14
Selenium	6020	2.1	1.4
Silver	6020	ND	1.4
Thallium	6020	ND	0.28
Zinc	6010B	300	14

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-08
 Client ID: **GMX-S13-2-4**

Analyte	Method	Result	PQL
Antimony	6020	ND	5.3
Arsenic	6020	ND	13
Beryllium	6020	ND	0.53
Cadmium	6020	ND	0.53
Chromium	6010B	7.7	2.6
Copper	6010B	25	5.3
Lead	6020	37	5.3
Mercury	7471A	0.064	0.026
Nickel	6020	12	2.6
Selenium	6020	ND	1.3
Silver	6020	ND	1.3
Thallium	6020	ND	0.26
Zinc	6010B	80	13

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-14
 Client ID: **GMX-S1-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.8
Arsenic	6010B	ND	14
Beryllium	6010B	ND	0.68
Cadmium	6010B	ND	0.68
Chromium	6010B	33	0.68
Copper	6010B	74	1.4
Lead	6010B	20	6.8
Mercury	7471A	0.11	0.0068
Nickel	6010B	37	3.4
Selenium	6020	ND	0.34
Silver	6010B	ND	0.68
Thallium	6020	0.084	0.068
Zinc	6010B	120	3.4

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-17
 Client ID: **GMX-S2-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	7.4
Arsenic	6010B	ND	15
Beryllium	6010B	ND	0.74
Cadmium	6010B	ND	0.74
Chromium	6010B	35	0.74
Copper	6010B	73	1.5
Lead	6010B	17	7.4
Mercury	7471A	0.041	0.0074
Nickel	6010B	38	3.7
Selenium	6020	ND	0.37
Silver	6010B	ND	0.74
Thallium	6020	ND	0.074
Zinc	6010B	94	3.7

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-20
 Client ID: **GMX-S3-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	7.2
Arsenic	6010B	ND	14
Beryllium	6010B	ND	0.72
Cadmium	6010B	ND	0.72
Chromium	6010B	28	0.72
Copper	6010B	87	1.4
Lead	6010B	24	7.2
Mercury	7471A	0.059	0.0072
Nickel	6010B	32	3.6
Selenium	6020	0.58	0.36
Silver	6010B	ND	0.72
Thallium	6020	ND	0.072
Zinc	6010B	130	3.6

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0725S1,MB0725S2&MB0727S2

Analyte	Method	Result	PQL
Antimony	6020	ND	1.0
Arsenic	6020	ND	2.5
Beryllium	6020	ND	0.025
Cadmium	6020	ND	0.10
Chromium	6010B	ND	0.50
Copper	6010B	ND	1.0
Lead	6020	ND	1.0
Mercury	7471A	ND	0.0050
Nickel	6020	ND	0.50
Selenium	6020	ND	0.25
Silver	6020	ND	0.25
Thallium	6020	ND	0.050
Zinc	6010B	ND	2.5

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

**TOTAL METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-27-08
Date Analyzed: 7-27-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0727S1

Analyte	Method	Result	PQL
Selenium	6020	ND	0.25

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-14

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	23.9	22.9	4	0.50	
Copper	54.0	57.9	7	1.0	
Lead	14.6	15.4	5	5.0	
Mercury	0.0796	0.0598	28	0.0050	K
Nickel	27.3	28.0	3	2.5	
Selenium	0.468	0.395	17	0.25	
Silver	ND	ND	NA	0.50	
Thallium	0.0613	ND	NA	0.050	
Zinc	90.4	99.3	9	2.5	

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

**TOTAL METALS
EPA 6020
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Selenium	0.256	ND	NA	0.25	

Date of Report: August 7, 2008
 Samples Submitted: July 16, 2008
 Laboratory Reference: 0807-118
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-14

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	81.1	81	80.6	81	1	
Arsenic	100	91.1	91	91.1	91	0	
Beryllium	50	48.5	97	49.1	98	1	
Cadmium	50	45.0	90	44.9	90	0	
Chromium	100	108	84	108	84	0	
Copper	50	103	99	98.4	89	5	
Lead	250	216	81	234	88	8	
Mercury	0.50	0.458	92	0.398	80	14	
Nickel	100	109	82	108	81	2	
Selenium	100	93.8	93	90.5	90	4	
Silver	25	22.3	89	22.3	89	0	
Thallium	50	51.0	102	48.7	97	5	
Zinc	100	181	90	178	87	2	

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

**TOTAL METALS
EPA 6020
MS/MSD QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Selenium	100	102	102	101	100	1	

Date of Report: August 7, 2008
Samples Submitted: July 16, 2008
Laboratory Reference: 0807-118
Project: 10654

% MOISTURE

Date Analyzed: 7-18,23&30-08

Client ID	Lab ID	% Moisture
GMX-S15-2-4	07-118-02	60
GMX-S15-4-6	07-118-03	83
GMX-S14-2-4	07-118-05	82
GMX-S14-4-6	07-118-06	80
GMX-S13-2-4	07-118-08	81
GMX-S13-4-6	07-118-09	83
GMX-S12-2-4	07-118-11	77
GMX-S1-2-4	07-118-14	27
GMX-S2-2-4	07-118-17	32
GMX-S3-2-4	07-118-20	31
GMX-S4-2-4	07-118-23	49
GMX-S5-2-4	07-118-26	19



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Laboratory Number: **07-118**

Company: **AMEC GMX**
 Project Number: **10654**
 Project Name: **Custom Plywood**
 Project Manager: **Kathleen Goodman**
 Sampled by: **Chris Brown / Nick Bachar**

Turnaround Request (In working days)
 (Check One)
 Same Day 1 Day
 2 Day 3 Day
 Standard (7 working days)
 (TPH analysis 5 working days)
 (other)

Requested Analysis	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total Metals <i>priority please</i>	TCLP Metals	HEM by 1664	Archive	% Moisture
	X	X	X								X				X
	X	X	X								X				X
	X	X	X								X				X
	X	X	X								X				X
	X	X	X								X				X
	X	X	X								X				X
	X	X	X								X				X
	X	X	X								X				X
	X	X	X								X				X
	X	X	X								X				X

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
1	GMX-S15-0-1	7/15/08	1130	Soil	2
2	GMX-S15-2-4		1135		6
3	GMX-S15-4-6		1140		2
4	GMX-S14-0-1		1210		2
5	GMX-S14-2-4		1215		6
6	GMX-S14-4-6		1220		2
7	GMX-S13-0-1		1400		2
8	GMX-S13-2-4		1405		8
9	GMX-S13-4-6		1410		2
10	GMX-S12-0-1		1445		2

Signature	Company	Date	Time	Comments/Special Instructions
<i>Nick Bachar</i>	AMEC GMX	7/16/08	1424	Special RLS, please check with David B.
<i>Ze...</i>	" "	7/16/08	1422	G/BTEX not preserved, must be extracted or frozen within 48 hrs. of sample time.
<i>Ze...</i>	" "	7/16/08	1725	
<i>1...</i>	AMEC	7/16/08	1725	Wood in Samples
Reviewed by/Date				Chromatograms with final report Added 7/30/08 - DB



OnSite Environmental Inc.

Phone: (405) 881-3981 • Fax: (405) 885-4803

Chain of Custody

Laboratory Number: **07-118**

Requested Analysis

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
(TPH analysis 5 working days)

(other)

Company: **AMEZ GMX**

Project Number: **10654**

Project Name: **Custom Plywood**

Project Manager: **Kathleen Goodman**

Sampled by: **Chris Brown / Nick Baehner**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Hericides by 8151A	Total Metals	Priority Metals	TCLP Metals	HEM by 1664	% Moisture
11	GMX-S12-2-4	7/15/08	1450	Soil	4	X	X													X
12	GMX-S12-4-6		1455		2											X				
13	GMX-S1-0-1		1530		2											X				
14	GMX-S1-2-4		1535		3			X								X				X
15	GMX-S1-4-6		1540		2											X				
16	GMX-S2-0-1		1600		2											X				
17	GMX-S2-2-4		1605		3			X								X				X
18	GMX-S2-4-6		1610		2											X				
19	GMX-S3-0-1		1620		2											X				
20	GMX-S3-2-4		1625		3			X								X				X

Relinquished by	Signature	Company	Date	Time	Comments/Special Instructions
		AMEZ GMX	7/16/08	1424	Important Please see instructions on page 1.
Received by		" "	7/16/08	1422	
Relinquished by		" "	7/16/08	1725	
Received by		AMEZ	7/16/08	1725	
Relinquished by					
Received by					
Reviewed by/Date					Chromatograms with final report

Laboratory Number: **07-118**

Company: **AMEC GMX**
 Project Number: **10654**
 Project Name: **Kustan Plywood**
 Project Manager: **Kathleen Goodman**
 Supplied by: **Chris Brown/Nick Barber**

Turnaround Request (In working days)	(Check One)	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total Metals	TCLP Metals	HEM by 1664	% Moisture	
	<input type="checkbox"/> Same Day	7/15/08	1630	Soil	2															
	<input type="checkbox"/> 2 Day		1645		2		XX													
	<input checked="" type="checkbox"/> Standard (7 working days)		1650		6															
	<input type="checkbox"/> 3 Day		1655		2															
	<input type="checkbox"/> (other)		1710		2															
			1715		5		XX													
			1720		1															

Requested Analysis

Priority Cell
 Archive
 TCL

Signature	Company	Date	Time	Comments/Special Instructions
<i>Nick Barber</i>	AMEC GMX	7/16/08	1424	Important Please see instructions on page 1.
<i>Zachary</i>	AMEC GMX	7/16/08	1422	
<i>Zachary</i>		7/16/08	1725	
<i>Chris Brown</i>	OSE	7/16/08	1725	
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date				Chromatograms with final report X



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 29, 2008

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654.000
Laboratory Reference No. 0807-129

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on July 17, 2008.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Baumeister', with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

Case Narrative

Samples were collected on July 16 and 17, 2008 and received by the laboratory on July 17, 2008. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

The MTCA Method A clean-up level for Benzene of 0.030 mg/kg is not achievable for sample GMX-MW3-6-7.5 due to the high moisture content of the sample.

The surrogate recovery is outside of the control limits for sample GMX-MW3-6-7.5 due to the sample's sludge-like matrix and its high moisture content.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Total Metals EPA 6010B/7471A Analysis

The duplicate RPD for Mercury is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

PAHs EPA 8270D/SIM Analysis

The practical quantitation limits were raised on several compounds due to interferences in the sample. These compounds are flagged with a "U1" indicator.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Volatile Petroleum Hydrocarbons Analysis

Sample GMX-MW3-6-7.5 was analyzed out of hold time.

The MTCA Method A clean-up level for Benzene of 0.030 mg/kg is not achievable for sample GMX-MW3-6-7.5 due to the high moisture content of the sample.

The surrogate recovery is outside of the control limits for sample GMX-MW3-6-7.5 due to the sample's sludge-like matrix and its high moisture content.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

NWTPH-Gx/BTEX

Date Extracted: 7-21-08
 Date Analyzed: 7-21-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **GMX-S32-4-6** **GMX-S33-4-6**
 Lab ID: 07-129-01 07-129-02

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.020
Toluene	ND		0.073	ND		0.064
Ethyl Benzene	ND		0.073	ND		0.064
m,p-Xylene	ND		0.073	ND		0.064
o-Xylene	ND		0.073	ND		0.064
TPH-Gas	ND		7.3	ND		6.4
Surrogate Recovery:						
Fluorobenzene	88%			81%		

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

NWTPH-Gx/BTEX

Date Extracted: 7-21-08
 Date Analyzed: 7-21-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **GMX-S8-2-4** **GMX-MW3-1.5-3**
 Lab ID: 07-129-04 07-129-10

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.020
Toluene	ND		0.059	ND		0.058
Ethyl Benzene	ND		0.059	0.11		0.058
m,p-Xylene	ND		0.059	0.15		0.058
o-Xylene	ND		0.059	ND	U1	0.29
TPH-Gas	ND		5.9	ND		5.8
Surrogate Recovery:						
Fluorobenzene	86%			90%		

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-21-08
Date Analyzed: 7-21-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0721S2

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	92%		

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-21-08
 Date Analyzed: 7-21-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID:	07-129-01 Original	07-129-01 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	88%	90%		

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-21-08

Date Analyzed: 7-21-08

Matrix: Soil
 Units: mg/kg (ppm)

Spike Level (ppm): 2.39

Lab ID:	07-141-01 MS	Percent Recovery	07-141-01 MSD	Percent Recovery	RPD	Flags
Benzene	2.24	94	2.23	93	0	
Toluene	2.31	97	2.29	96	1	
Ethyl Benzene	2.32	97	2.30	96	1	
m,p-Xylene	2.33	98	2.29	96	2	
o-Xylene	2.34	98	2.31	97	1	

Surrogate Recovery:

Fluorobenzene 88% 87%

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

NWTPH-Gx/BTEX

Date Extracted: 7-30-08
Date Analyzed: 7-30-08

Matrix: Soil
Units: mg/kg (ppm)

Client ID: **GMX-MW3-6-7.5**
Lab ID: 07-129-11

	Result	Flags	PQL
Benzene	ND		0.050
Toluene	ND		0.25
Ethyl Benzene	ND		0.25
m,p-Xylene	ND		0.25
o-Xylene	ND		0.25
TPH-Gas	ND		25
Surrogate Recovery: Fluorobenzene	45%	Q	

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-30-08
Date Analyzed: 7-30-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0730S2

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	84%		

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-30-08

Date Analyzed: 7-30-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID:	07-260-02 Original	07-260-02 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	85%	84%		

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-30-08

Date Analyzed: 7-30-08

Matrix: Soil
 Units: mg/kg (ppm)

Spike Level (ppm): 2.75

Lab ID:	07-260-01 MS	Percent Recovery	07-260-01 MSD	Percent Recovery	RPD	Flags
Benzene	2.75	100	2.71	99	2	
Toluene	2.81	102	2.75	100	2	
Ethyl Benzene	2.81	102	2.76	100	2	
m,p-Xylene	2.83	103	2.79	102	1	
o-Xylene	2.83	103	2.78	101	2	

Surrogate Recovery:

Fluorobenzene 93% 89%

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

NWTPH-Dx

Date Extracted: 7-24-08
 Date Analyzed: 7-24-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S32-4-6	GMX-S33-4-6	GMX-S8-2-4
Lab ID:	07-129-01	07-129-02	07-129-04
Diesel Range:	ND	ND	ND
PQL:	31	31	29
Identification:	---	---	---
Lube Oil Range:	ND	110	ND
PQL:	62	63	58
Identification:	---	Lube Oil	---
Surrogate Recovery			
o-Terphenyl:	106%	107%	115%
Flags:	Y	Y	Y

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

NWTPH-Dx

Date Extracted: 7-24-08
 Date Analyzed: 7-24&25-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-MW1-4.5-6.5	GMX-MW3-1.5-3	GMX-MW3-6-7.5
Lab ID:	07-129-07	07-129-10	07-129-11
Diesel Range:	ND	1900	9100
PQL:	47	280	740
Identification:	---	Diesel Fuel#2	Diesel Fuel#2
Lube Oil Range:	200	7100	18000
PQL:	94	550	1500
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	88%	---	---
Flags:	Y	Y,S	Y,S

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

NWTPH-Dx

Date Extracted: 7-24-08
Date Analyzed: 7-24-08

Matrix: Soil
Units: mg/kg (ppm)

Client ID: GMX-MW2-7-9
Lab ID: 07-129-15

Diesel Range: **86**
PQL: 68

Identification: Diesel Range Organics

Lube Oil Range: **830**
PQL: 140

Identification: Lube Oil

Surrogate Recovery
o-Terphenyl: 82%

Flags: Y

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-24-08
Date Analyzed: 7-24-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0724S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 100%

Flags: Y

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-24-08
Date Analyzed: 7-24-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-141-01 07-141-01 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 72% 106%

Flags: Y Y

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

NWTPH-Dx

Date Extracted: 7-30-08
 Date Analyzed: 8-1-08

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-MW3-12-12.2	GMX-MW3-16.5-17
Lab ID:	07-129-12	07-129-13

Diesel Range:	110	ND
PQL:	100	33

Identification:	Diesel Range Organics	---
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Lube Oil Range:	290	ND
PQL:	200	67

Identification:	Lube Oil	---
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Surrogate Recovery		
o-Terphenyl:	72%	88%

Flags:	Y	Y
--------	---	---

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-30-08
Date Analyzed: 7-30-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0730S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 97%

Flags: Y

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-30-08
Date Analyzed: 8-1-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-117-03 07-117-03 DUP

Diesel Range: **ND** **ND**
PQL: 500 300

RPD: N/A

Surrogate Recovery
o-Terphenyl: --- 82%

Flags: U1,Y,S U1,Y

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW3-6-7.5					
Laboratory ID:	07-129-11					
Naphthalene	0.19	0.020	EPA 8270/SIM	7-30-08	7-31-08	
2-Methylnaphthalene	2.2	0.020	EPA 8270/SIM	7-30-08	7-31-08	
1-Methylnaphthalene	5.1	0.20	EPA 8270/SIM	7-30-08	8-7-08	
Acenaphthylene	0.42	0.020	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthene	1.0	0.020	EPA 8270/SIM	7-30-08	7-31-08	
Fluorene	1.0	0.020	EPA 8270/SIM	7-30-08	7-31-08	
Phenanthrene	1.4	0.020	EPA 8270/SIM	7-30-08	7-31-08	
Anthracene	0.32	0.020	EPA 8270/SIM	7-30-08	7-31-08	
Fluoranthene	2.0	0.020	EPA 8270/SIM	7-30-08	7-31-08	
Pyrene	1.4	0.020	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[a]anthracene	0.27	0.020	EPA 8270/SIM	7-30-08	7-31-08	
Chrysene	0.38	0.020	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[b]fluoranthene	0.37	0.20	EPA 8270/SIM	7-30-08	8-7-08	
Benzo[k]fluoranthene	0.27	0.20	EPA 8270/SIM	7-30-08	8-7-08	
Benzo[a]pyrene	ND	0.20	EPA 8270/SIM	7-30-08	8-7-08	U1
Indeno(1,2,3-c,d)pyrene	ND	0.20	EPA 8270/SIM	7-30-08	8-7-08	U1
Dibenz[a,h]anthracene	ND	0.20	EPA 8270/SIM	7-30-08	8-7-08	U1
Benzo[g,h,i]perylene	ND	0.20	EPA 8270/SIM	7-30-08	8-7-08	U1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>67</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>54 - 126</i>				

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**PAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0730S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Acenaphthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Fluorene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Phenanthrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Anthracene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Fluoranthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Pyrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Chrysene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	7-30-08	7-31-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Nitrobenzene-d5</i>	<i>73</i>	<i>39 - 110</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>41 - 107</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>54 - 126</i>				

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0730S1									
Naphthalene	0.0595	0.0598	0.0833	0.0833	71	72	45 - 94	1	24	
Acenaphthylene	0.0639	0.0655	0.0833	0.0833	77	79	51 - 104	2	25	
Acenaphthene	0.0657	0.0672	0.0833	0.0833	79	81	53 - 103	2	21	
Fluorene	0.0668	0.0678	0.0833	0.0833	80	81	57 - 107	1	19	
Phenanthrene	0.0703	0.0691	0.0833	0.0833	84	83	61 - 104	2	17	
Anthracene	0.0656	0.0647	0.0833	0.0833	79	78	58 - 102	1	14	
Fluoranthene	0.0748	0.0736	0.0833	0.0833	90	88	69 - 109	2	27	
Pyrene	0.0777	0.0764	0.0833	0.0833	93	92	71 - 114	2	27	
Benzo[a]anthracene	0.0779	0.0759	0.0833	0.0833	94	91	61 - 123	3	18	
Chrysene	0.0807	0.0792	0.0833	0.0833	97	95	66 - 124	2	19	
Benzo[b]fluoranthene	0.0760	0.0741	0.0833	0.0833	91	89	72 - 114	3	26	
Benzo[k]fluoranthene	0.0764	0.0729	0.0833	0.0833	92	88	70 - 115	5	17	
Benzo[a]pyrene	0.0658	0.0636	0.0833	0.0833	79	76	57 - 104	3	18	
Indeno(1,2,3-c,d)pyrene	0.0727	0.0725	0.0833	0.0833	87	87	63 - 121	0	20	
Dibenz[a,h]anthracene	0.0713	0.0708	0.0833	0.0833	86	85	62 - 125	1	15	
Benzo[g,h,i]perylene	0.0713	0.0705	0.0833	0.0833	86	85	64 - 117	1	21	
<i>Surrogate:</i>										
Nitrobenzene-d5					77	77	39 - 110			
2-Fluorobiphenyl					78	79	41 - 107			
Terphenyl-d14					92	91	54 - 126			

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW1-4.5-6.5					
Laboratory ID:	07-129-07					
Aroclor 1016	ND	0.057	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.057	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.057	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.057	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.057	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.057	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.057	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.057	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.057	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	62	35-127				
Client ID:	GMX-MW3-6-7.5					
Laboratory ID:	07-129-11					
Aroclor 1016	ND	0.088	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.088	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.088	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.088	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.088	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.088	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.088	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.088	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.088	EPA 8082	7-18-08	7-19-08	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	57	35-127				

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0718S1					
Aroclor 1016	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1221	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1232	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1242	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1248	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1254	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1260	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1262	ND	0.030	EPA 8082	7-18-08	7-19-08	
Aroclor 1268	ND	0.030	EPA 8082	7-18-08	7-19-08	
Surrogate:	Percent Recovery	Control Limits				
DCB	96	35-127				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-126-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.457	0.412	0.500	0.500	ND	91	82	24-128	10	14	
Surrogate:											
DCB						92	85	35-127			

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-129-01
 Client ID: **GMX-S32-4-6**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.2
Arsenic	6010B	ND	12
Beryllium	6010B	ND	0.62
Cadmium	6010B	ND	0.62
Chromium	6010B	30	0.62
Copper	6010B	38	1.2
Lead	6010B	21	6.2
Mercury	7471A	0.13	0.0062
Nickel	6010B	31	3.1
Selenium	6020	0.50	0.31
Silver	6010B	ND	0.62
Thallium	6020	0.070	0.062
Zinc	6010B	64	3.1

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-129-02
 Client ID: **GMX-S33-4-6**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.3
Arsenic	6010B	ND	13
Beryllium	6010B	ND	0.63
Cadmium	6010B	ND	0.63
Chromium	6010B	35	0.63
Copper	6010B	49	1.3
Lead	6010B	26	6.3
Mercury	7471A	0.082	0.0063
Nickel	6010B	28	3.1
Selenium	6020	0.54	0.31
Silver	6010B	ND	0.63
Thallium	6020	0.083	0.063
Zinc	6010B	100	3.1

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-129-07
 Client ID: **GMX-MW1-4.5-6.5**

Analyte	Method	Result	PQL
Antimony	6010B	ND	9.4
Arsenic	6010B	ND	19
Beryllium	6010B	ND	0.94
Cadmium	6010B	ND	0.94
Chromium	6010B	24	0.94
Copper	6010B	110	1.9
Lead	6010B	22	9.4
Mercury	7471A	0.021	0.0094
Nickel	6010B	24	4.7
Selenium	6020	0.53	0.47
Silver	6010B	ND	0.94
Thallium	6020	ND	0.094
Zinc	6010B	70	4.7

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-129-11
 Client ID: **GMX-MW3-6-7.5**

Analyte	Method	Result	PQL
Antimony	6020	ND	7.4
Arsenic	6010B	20	15
Beryllium	6020	ND	0.59
Cadmium	6020	ND	0.74
Chromium	6010B	28	1.5
Copper	6010B	61	2.9
Lead	6010B	32	15
Mercury	7471A	0.052	0.015
Nickel	6010B	39	7.4
Selenium	6020	0.95	0.74
Silver	6020	ND	0.74
Thallium	6020	ND	0.15
Zinc	6010B	110	7.4

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-129-15
 Client ID: **GMX-MW2-7-9**

Analyte	Method	Result	PQL
Antimony	6020	ND	6.8
Arsenic	6010B	28	27
Beryllium	6020	ND	0.54
Cadmium	6020	0.73	0.68
Chromium	6010B	21	1.4
Copper	6010B	42	2.7
Lead	6010B	110	14
Mercury	7471A	0.16	0.014
Nickel	6010B	32	6.8
Selenium	6020	1.3	0.68
Silver	6020	ND	0.68
Thallium	6020	ND	0.14
Zinc	6010B	150	6.8

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0725S1,MB0725S2&MB0727S2

Analyte	Method	Result	PQL
Antimony	6020	ND	1.0
Arsenic	6020	ND	2.5
Beryllium	6020	ND	0.025
Cadmium	6020	ND	0.10
Chromium	6010B	ND	0.50
Copper	6010B	ND	1.0
Lead	6020	ND	1.0
Mercury	7471A	ND	0.0050
Nickel	6020	ND	0.50
Selenium	6020	ND	0.25
Silver	6020	ND	0.25
Thallium	6020	ND	0.050
Zinc	6010B	ND	2.5

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

**TOTAL METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-27-08
Date Analyzed: 7-27-08

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0727S1

Analyte	Method	Result	PQL
Selenium	6020	ND	0.25

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-14

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	23.9	22.9	4	0.50	
Copper	54.0	57.9	7	1.0	
Lead	14.6	15.4	5	5.0	
Mercury	0.0796	0.0598	28	0.0050	K
Nickel	27.3	28.0	3	2.5	
Selenium	0.468	0.395	17	0.25	
Silver	ND	ND	NA	0.50	
Thallium	0.0613	ND	NA	0.050	
Zinc	90.4	99.3	9	2.5	

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

**TOTAL METALS
EPA 6020
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Selenium	0.256	ND	NA	0.25	

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**TOTAL METALS
 EPA 6010B/6020/7471A
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-25&27-08
 Date Analyzed: 7-25,26&27-08

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-118-14

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	81.1	81	80.6	81	1	
Arsenic	100	91.1	91	91.1	91	0	
Beryllium	50	48.5	97	49.1	98	1	
Cadmium	50	45.0	90	44.9	90	0	
Chromium	100	108	84	108	84	0	
Copper	50	103	99	98.4	89	5	
Lead	250	216	81	234	88	8	
Mercury	0.50	0.458	92	0.398	80	14	
Nickel	100	109	82	108	81	2	
Selenium	100	93.8	93	90.5	90	4	
Silver	25	22.3	89	22.3	89	0	
Thallium	50	51.0	102	48.7	97	5	
Zinc	100	181	90	178	87	2	

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

**TOTAL METALS
EPA 6020
MS/MSD QUALITY CONTROL**

Date Extracted: 7-27-08

Date Analyzed: 7-27-08

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-117-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Selenium	100	102	102	101	100	1	

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

VOLATILE PETROLEUM HYDROCARBONS

Date Extracted: 7-30-08

Date Analyzed: 7-31-08

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: 07-129-11

Client ID: **GMX-MW3-6-7.5**

VPH:	Results	PQL
Aliphatic C5-C6	ND	5.0
Aliphatic C6-C8	ND	5.0
Aliphatic C8-C10	ND	5.0
Aliphatic C10-C12	17	5.0
Total Aliphatic:	17	
Aromatic C8-C10	7.0	5.0
Aromatic C10-C12	29	5.0
Aromatic C12-C13	60	5.0
Total Aromatic:	96	

Target Analytes:

Methyl t-butyl ether	ND	0.50
Benzene	ND	0.050
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50

Surrogate:	Percent Recovery	Control Limits
Fluorobenzene	38	60-129

Flags: Q

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**VOLATILE PETROLEUM HYDROCARBONS
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-30-08

Date Analyzed: 7-31-08

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: MB0730S2

VPH:	Results	PQL
Aliphatic C5-C6	ND	5.0
Aliphatic C6-C8	ND	5.0
Aliphatic C8-C10	ND	5.0
Aliphatic C10-C12	ND	5.0
Total Aliphatic:	NA	
Aromatic C8-C10	ND	5.0
Aromatic C10-C12	ND	5.0
Aromatic C12-C13	ND	5.0
Total Aromatic:	NA	
Target Analytes:		
Methyl t-butyl ether	ND	0.50
Benzene	ND	0.020
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50

Surrogate:	Percent Recovery	Control Limits
Fluorobenzene	86	60-129

Flags:

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**VOLATILE PETROLEUM HYDROCARBONS
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-30-08

Date Analyzed: 7-31-08

Matrix: Soil

Units: mg/Kg (ppm)

Spike Level (ppm): 2.75

Lab ID: 07-260-01 MS

07-260-01 MSD

	Result	Percent Recovery	Result	Percent Recovery	PQL	RPD
Benzene	2.59	94	2.66	97	0.020	3
Toluene	2.66	97	2.70	98	0.50	1
Ethylbenzene	2.69	98	2.72	99	0.50	1
m,p-Xylene	2.70	98	2.72	99	0.50	1
o-Xylene	2.70	98	2.73	99	0.50	1

Surrogate:	Percent Recovery	Percent Recovery	Control Limits
Fluorobenzene	87	87	60-129

Date of Report: August 29, 2008
 Samples Submitted: July 17, 2008
 Laboratory Reference: 0807-129
 Project: 10654.000

**VOLATILE PETROLEUM HYDROCARBONS
 SPIKE BLANK QUALITY CONTROL**

Date Extracted: 7-30-08
 Date Analyzed: 7-31-08

Matrix: Soil
 Units: mg/Kg (ppm)

Spike Level (ppm): 1.00

Lab ID: SB0730S1

	Result	Percent Recovery	PQL
Benzene	0.879	88	0.020
Toluene	0.908	91	0.50
Ethylbenzene	0.910	91	0.50
m,p-Xylene	0.919	92	0.50
o-Xylene	0.921	92	0.50

Surrogate:	Percent Recovery	Control Limits
Fluorobenzene	88	60-129

Date of Report: August 29, 2008
Samples Submitted: July 17, 2008
Laboratory Reference: 0807-129
Project: 10654.000

% MOISTURE

Date Analyzed: 7/18-30/08

Client ID	Lab ID	% Moisture
GMX-S32-4-6	07-129-01	19
GMX-S33-4-6	07-129-02	20
GMX-S8-2-4	07-129-04	14
GMX-MW1-4.5-6.5	07-129-07	47
GMX-MW3-1.5-3	07-129-10	9
GMX-MW3-6-7.5	07-129-11	66
GMX-MW3-12-12.2	07-129-12	75
GMX-MW3-16.5-17	07-129-13	25
GMX-MW2-7-9	07-129-15	63



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Pace Analytical Services, Inc.
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Fax: 612.607.6444

Report Prepared for:

David Baumeister
Onsite Environmental, Inc.
14648 NE 95th Street
Redmond WA 98052

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

Pace Project #: 1077704
Sample Receipt Date: 07/25/2008
Client Project #: 10654.000
Client Sub PO #: N/A
State Cert #: C218

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed and prepared by:

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:

August 11, 2008



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on one sample submitted by a representative of Onsite Environmental, Inc.. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Reporting limits were set to correspond to one-fifth of the lowest calibration points. The sample was received outside of the recommended temperature range of 0-6 degrees Celsius.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 42-72%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of native or labeled PCDD or PCDF congeners. The affected values were flagged "I" where incorrect isotope ratios were obtained, or "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These were below the calibration range of the method. The levels reported for the affected congeners in the field samples were higher than the corresponding blank levels by one or more orders of magnitude. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field sample.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 89-115%, indicating a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management



Sample Condition Upon Receipt

Client Name: onsite environmental

Project # 1077704

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 12684E1W0390275015

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no



Packing Material: Bubble Wrap Bubble Bags None Other Temp Blank: Yes No

Thermometer Used 80344042 179425 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temperature 17.0² Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C ice still melted

Date and Initials of person examining contents: 7/25/08

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>SL</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Per method, VOA preservation is checked after analysis		Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: David B. Date/Time: 07/25/08

Comments/ Resolution:

- 8290 method
- claimed temp req.

Project Manager Review: (signature)

Date: 07/25/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Appendix B

Sample Analysis Summary



Method 8290 Sample Analysis Results

Client - Onsite Environmental, Inc.

Client's Sample ID	GMX-MW1-4.5-6.5		
Lab Sample ID	1077704001		
Filename	U80806B_14		
Injected By	BAL		
Total Amount Extracted	18.7 g	Matrix	Solid
% Moisture	43.7	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	07/17/2008
ICAL ID	U80622	Received	07/25/2008
CCal Filename(s)	U80806A_16 & U80806B_16	Extracted	07/30/2008
Method Blank ID	BLANK-17112	Analyzed	08/07/2008 14:16

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	0.72	A	2,3,7,8-TCDF-13C	2.00	64
Total TCDF	3.7	---	0.72		2,3,7,8-TCDD-13C	2.00	68
					1,2,3,7,8-PeCDF-13C	2.00	58
2,3,7,8-TCDD	ND	---	0.63	A	2,3,4,7,8-PeCDF-13C	2.00	60
Total TCDD	37.0	---	0.63		1,2,3,7,8-PeCDD-13C	2.00	65
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	---	0.95		1,2,3,6,7,8-HxCDF-13C	2.00	64
2,3,4,7,8-PeCDF	3.5	---	0.95	J	2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	20.0	---	0.95		1,2,3,7,8,9-HxCDF-13C	2.00	61
					1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	1.8	---	0.95	J	1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	23.0	---	0.95		1,2,3,4,6,7,8-HpCDF-13C	2.00	54
					1,2,3,4,7,8,9-HpCDF-13C	2.00	42
1,2,3,4,7,8-HxCDF	---	11.0	0.95	I	1,2,3,4,6,7,8-HpCDD-13C	2.00	47
1,2,3,6,7,8-HxCDF	---	5.0	0.95	E	OCDD-13C	4.00	48 Y
2,3,4,6,7,8-HxCDF	6.8	---	0.95				
1,2,3,7,8,9-HxCDF	1.2	---	0.95	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	44.0	---	0.95		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	5.9	---	0.95		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	22.0	---	0.95				
1,2,3,7,8,9-HxCDD	7.7	---	0.95				
Total HxCDD	180.0	---	0.95				
1,2,3,4,6,7,8-HpCDF	80.0	---	0.95		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	6.4	---	0.95		Equivalence: 22 ng/Kg		
Total HpCDF	87.0	---	0.95		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	680.0	---	0.95				
Total HpCDD	1300.0	---	0.95				
OCDF	430.0	---	1.90				
OCDD	6400.0	---	1.90				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 RL = Reporting Limit

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Value below calibration range
 A = Reporting Limit based on signal to noise
 E = PCDE Interference
 I = Interference present
 Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-17112	Matrix	Solid
Filename	U80804A_04	Dilution	NA
Total Amount Extracted	10.7 g	Extracted	07/30/2008
ICAL ID	U80622	Analyzed	08/04/2008 21:34
CCal Filename(s)	U80803B_16 & U80804A_16	Injected By	BPG

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.19	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	—	0.19	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	—	0.19 A	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	0.48	—	0.19 J	1,2,3,7,8-PeCDD-13C	2.00	65
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	—	0.93	1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	ND	—	0.93	2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	ND	—	0.93	1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	—	0.93	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	—	0.93	1,2,3,4,6,7,8-HpCDF-13C	2.00	72
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	—	0.93	1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	—	0.93	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	—	0.93			
1,2,3,7,8,9-HxCDF	ND	—	0.93	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	—	0.93	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	—	0.93	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	—	0.93			
1,2,3,7,8,9-HxCDD	ND	—	0.93			
Total HxCDD	ND	—	0.93			
1,2,3,4,6,7,8-HpCDF	ND	—	0.93	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.93	Equivalence: 0.0025 ng/Kg		
Total HpCDF	ND	—	0.93	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	—	0.93			
Total HpCDD	0.93	—	0.93 J			
OCDF	ND	—	1.90			
OCDD	2.50	—	1.90 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

J = Value below calibration range

A = Reporting Limit based on signal to noise

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-17113	Matrix	Solid
Filename	U80804A_01	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	07/30/2008
ICAL ID	U80622	Analyzed	08/04/2008 19:05
CCal Filename(s)	U80803B_16 & U80804A_16	Injected By	BPG
Method Blank ID	BLANK-17112		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	102	2,3,7,8-TCDF-13C	2.00	78
Total TCDF				2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	0.20	0.18	89	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	71
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	1.00	1.14	114	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	1.00	1.10	110	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	1.00	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	73
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	1.00	1.08	108	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	1.00	1.15	115	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	1.00	1.12	112			
1,2,3,7,8,9-HxCDF	1.00	1.12	112	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.97	97	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	1.00	1.07	107			
1,2,3,7,8,9-HxCDD	1.00	1.01	101			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.00	100			
1,2,3,4,7,8,9-HpCDF	1.00	1.03	103			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	0.97	97			
Total HpCDD						
OCDF	2.00	1.86	93			
OCDD	2.00	2.11	106			

Qs = Quantity Spiked
 Qm = Quantity Measured
 Rec = Recovery (Expressed as Percent)
 P = Recovery outside of target range
 X = Background subtracted value
 Nn = Value obtained from additional analysis
 NA = Not Applicable
 * = See Discussion

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc
 9 of 9

Report No.....1077704_8290



Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 August 2008

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 10654
ARI Job No: NG38

Dear David:

Please find enclosed the original Chain-of-Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. accepted seven soil samples on July 18, 2008. The samples were received intact. The samples were analyzed for TOC as requested.

There were no problems with these analyses.

An electronic copy of this package will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink that reads "Mark D. Harris".

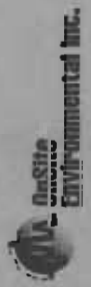
Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file NG38

MDH/mdh

NG38



14640 NE 95th Street, Redmond, WA 98052 · (425) 883-3681

Subcontract Laboratory: Analytical Resources, Inc.

Attention: Mark Harris

4611 S 134th Pl, Ste. 100 Tukwila, WA 98168

Phone Number: (206) 695-6200

Date/Time: _____

Laboratory Reference #: 07-129

Project Manager: David Baumeister

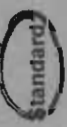
email: dbaumeister@onsite-env.com

Project Number: 10654.000

Project Name: _____

Turnaround Request:

1 Day 2 Day 3 Day



Other: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis	Signature	Company	Date	Time	Comments/Special Instructions
GMX-S32-4-6		7/18/08	1535	S	1	TOC			7/18/08	2:15 pm	EIM
GMX-S33-4-b		↓	1605	↓	↓	↓			7/18/08	2:15 pm	
GMX-S8-2-4		↓	1615	↓	↓	↓			7/18/08	3 pm	
GMX-MW1-4.5-6.5		7/17/08	0834	↓	↓	↓					
GMX-MW3-1.5-3		↓	1130	↓	↓	↓					
GMX-MW3-6-7.5		↓	1120	↓	↓	↓					
GMX-MW2-7-9		↓	1435	↓	↓	↓					
Relinquished by:											
Received by:											
Relinquished by:											
Received by:											
Relinquished by:											
Received by:											

Handwritten notes: cse, speedy, speedy

EIM

METHOD BLANK RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized
Reported: 08/14/08


A handwritten signature in black ink, appearing to be 'AK', is written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	07/21/08	Percent	< 0.01 U
	07/21/08		< 0.01 U
Total Organic Carbon	08/09/08	Percent	< 0.020 U
	08/11/08		< 0.020 U

SAMPLE RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

Client ID: GMX-S32-4-6
ARI ID: 08-16292 NG38A

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	81.70
Total Organic Carbon	08/09/08 080908#1	Plumb, 1981	Percent	0.020	1.61

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized:
Reported: 08/14/08

A handwritten signature in black ink, appearing to be 'J. K.', written over the 'Data Release Authorized' line.

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

Client ID: GMX-S33-4-6
ARI ID: 08-16293 NG38B

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	80.50
Total Organic Carbon	08/09/08 080908#1	Plumb, 1981	Percent	0.020	0.658

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *AK*
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/16/08
Date Received: 07/18/08

Client ID: GMX-S8-2-4
ARI ID: 08-16294 NG38C

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	85.90
Total Organic Carbon	08/09/08 080908#1	Plumb, 1981	Percent	0.020	0.525

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized
Reported: 08/14/08

A handwritten signature in black ink, appearing to be 'M. J.', written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 07/17/08
Date Received: 07/18/08


Client ID: GMX-MW1-4.5-6.5
ARI ID: 08-16295 NG38D

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	55.30
Total Organic Carbon	08/09/08 080908#1	Plumb, 1981	Percent	0.020	12.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/17/08
Date Received: 07/18/08

Client ID: GMX-MW3-1.5-3
ARI ID: 08-16296 NG38E

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	92.80
Total Organic Carbon	08/09/08 080908#1	Plumb, 1981	Percent	0.020	2.78

K: Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized:
Reported: 08/14/08

A handwritten signature in blue ink, appearing to be 'M. J.', is written over the 'Data Release Authorized' line.

Project: NA
Event: 10654
Date Sampled: 07/17/08
Date Received: 07/18/08

Client ID: GMX-MW3-6-7.5
ARI ID: 08-16297 NG38F

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	31.10
Total Organic Carbon	08/11/08 081108#1	Plumb, 1981	Percent	0.190	17.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/17/08
Date Received: 07/18/08

Client ID: GMX-MW2-7-9
ARI ID: 08-16298 NG38G

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/21/08 072108#2	EPA 160.3	Percent	0.01	34.90
Total Organic Carbon	08/11/08 081108#1	Plumb, 1981	Percent	0.208	26.7

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.




Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/17/08
Date Received: 07/18/08

Analyte	Date	Units	Sample	Replicate (s)	RPD/RSD
ARI ID: NG38G Client ID: GMX-MW2-7-9					
Total Solids	07/21/08	Percent	34.90	35.50 36.70	2.6%
Total Organic Carbon	08/11/08	Percent	26.7	30.6 23.9	12.4%

MS/MSD RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: 07/17/08
Date Received: 07/18/08


Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
---------	------	-------	--------	-------	-------------	----------

ARI ID: NG38G Client ID: GMX-MW2-7-9

Total Organic Carbon	08/11/08	Percent	26.7	48.9	25.5	87.0%
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LAB CONTROL RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.




Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	08/09/08	Percent	0.489	0.500	97.8%
	08/11/08		0.478	0.500	95.6%

STANDARD REFERENCE RESULTS-CONVENTIONALS
NG38-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/14/08

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon	08/09/08	Percent	3.53	3.35	105.4%
NIST #8704	08/11/08		3.30	3.35	98.5%



Analytical Resources, Incorporated

Analytical Chemists and Consultants

27 August 2008

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 10654.000
ARI Job No: NI37

Dear David:

Please find enclosed the original Chain-of-Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. accepted three soil samples on July 31, 2008. The samples were received intact. The samples were analyzed for EPH and TOC as requested.

There were no problems with these analyses.

An electronic copy of this package will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file NI37

MDH/mdh

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH

Page 1 of 1

Sample ID: MB-080108

METHOD BLANK

Lab Sample ID: MB-080108

LIMS ID: 08-18328

Matrix: Soil

Data Release Authorized:

Reported: 08/13/08

QC Report No: NI37-OnSite Environmental, Inc.

Project: 10654.000

Date Sampled: NA

Date Received: NA

Date Extracted: 08/01/08

Percent Moisture: NA

Sample Amount: 10.0 g-as-rec

Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 08/07/08 23:23

Instrument/Analyst: FID4A/MS

Dilution Factor: 1.00

Aromatic

Date Analyzed: 08/07/08 20:03

Instrument/Analyst: FID4A/MS

Dilution Factor: 1.00

Range	RL	Result
C8-C10 Aliphatics	2,000	< 2,000 U
C10-C12 Aliphatics	2,000	< 2,000 U
C12-C16 Aliphatics	2,000	< 2,000 U
C16-C21 Aliphatics	2,000	< 2,000 U
C21-C34 Aliphatics	2,000	< 2,000 U
C8-C10 Aromatics	2,000	< 2,000 U
C10-C12 Aromatics	2,000	< 2,000 U
C12-C16 Aromatics	2,000	< 2,000 U
C16-C21 Aromatics	2,000	< 2,000 U
C21-C34 Aromatics	2,000	< 2,000 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

EPH Surrogate Recovery

Aliphatic	1-Chlorooctadecane	90.7%
Aromatic	Ortho-terphenyl	82.9%

ORGANICS ANALYSIS DATA SHEET
Aliphatic/Aromatic GC-EPH
Page 1 of 1

Sample ID: GMX-MW3-6-7.5
SAMPLE

Lab Sample ID: NI37A
LIMS ID: 08-18328
Matrix: Soil
Data Release Authorized:
Reported: 08/13/08

QC Report No: NI37-OnSite Environmental, Inc.
Project: 10654.000
Date Sampled: 07/17/08
Date Received: 07/31/08

Date Extracted: 08/01/08
Percent Moisture: 65.1%

Sample Amount: 3.50 g-dry-wt
Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 08/08/08 20:21
Instrument/Analyst: FID4B/MS

Dilution Factor: 1.00

Aromatic

Date Analyzed: 08/08/08 20:43
Instrument/Analyst: FID4A/MS

Dilution Factor: 1.00

Range	RL	Result
C8-C10 Aliphatics	5,700	27,000
C10-C12 Aliphatics	5,700	200,000
C12-C16 Aliphatics	5,700	1,500,000
C16-C21 Aliphatics	5,700	2,300,000
C21-C34 Aliphatics	5,700	5,900,000
C8-C10 Aromatics	5,700	< 5,700 U
C10-C12 Aromatics	5,700	26,000
C12-C16 Aromatics	5,700	330,000
C16-C21 Aromatics	5,700	1,200,000
C21-C34 Aromatics	5,700	2,000,000

Reported in $\mu\text{g}/\text{kg}$ (ppb)

EPH Surrogate Recovery

Aliphatic	1-Chlorooctadecane	88.6%
Aromatic	Ortho-terphenyl	84.5%

ORGANICS ANALYSIS DATA SHEET
Aliphatic/Aromatic GC-EPH
Page 1 of 1

Sample ID: LCS-080108
LAB CONTROL

Lab Sample ID: LCS-080108
LIMS ID: 08-18328
Matrix: Soil
Data Release Authorized:
Reported: 08/13/08

QC Report No: NI37-OnSite Environmental, Inc.
Project: 10654.000
Date Sampled: NA
Date Received: NA

Date Extracted: 08/01/08

Sample Amount: 10.0 g-as-rec
Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 08/07/08 23:45
Instrument/Analyst: FID4B/MS

Dilution Factor: 1.00

Aromatic

Date Analyzed: 08/07/08 20:25
Instrument/Analyst: FID4A/MS

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
C8-C10 Aliphatics	11000	15000	73.3%
C10-C12 Aliphatics	13000	15000	86.7%
C12-C16 Aliphatics	16000	15000	107%
C16-C21 Aliphatics	17000	15000	113%
C10-C12 Aromatics	10200	15000	68.0%
C12-C16 Aromatics	13500	15000	90.0%
C16-C21 Aromatics	29200	30000	97.3%
C21-C34 Aromatics	30300	30000	101%

Results reported in $\mu\text{g}/\text{kg}$

EPH Surrogate Recovery

Aliphatic	1-Chlorooctadecane	94.0%
Aromatic	Ortho-terphenyl	83.3%

METHOD BLANK RESULTS-CONVENTIONALS
NI37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/04/08	Percent	< 0.01 U
	08/04/08		< 0.01 U
	08/04/08		< 0.01 U
	08/04/08		< 0.01 U
Total Organic Carbon	08/25/08	Percent	< 0.020 U

SAMPLE RESULTS-CONVENTIONALS
NI37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: 07/17/08
Date Received: 07/31/08


Client ID: GMX-MW3-12-12.2
ARI ID: 08-18329 NI37B

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/04/08 080408#3	EPA 160.3	Percent	0.01	27.60
Total Organic Carbon	08/25/08 082508#1	Plumb, 1981	Percent	0.020	0.238

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NI37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: 07/17/08
Date Received: 07/31/08

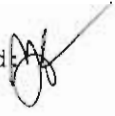
Client ID: GMX-MW3-16.5-17
ARI ID: 08-18330 NI37C

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/04/08 080408#3	EPA 160.3	Percent	0.01	74.60
Total Organic Carbon	08/25/08 082508#1	Plumb, 1981	Percent	0.020	13.3

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
NI37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 08/27/08

Project: NA
Event: 10654.000
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	08/25/08	Percent	0.477	0.500	95.4%

STANDARD REFERENCE RESULTS-CONVENTIONALS
NI37-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized
Reported: 08/27/08

A handwritten signature in black ink, appearing to be 'AV', is written over the 'Data Release Authorized' text.

Project: NA
Event: 10654.000
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	08/25/08	Percent	3.28	3.35	97.9%



OnSite Environmental Inc.

Phone: (425) 863-3811 • Fax: (425) 865-4603

Company:

AMEC Geomatrix

Project Number:

10654.000

Project Name:

Custom Plywood

Project Manager:

Kathleen Goodman

Sampled by:

C. Brown + Z. Satterwhite

Chain of Custody

Laboratory Number: 07-129

Requested Analysis

Turnaround Request (in working days)	Requested Analysis
<input type="checkbox"/> Same Day	Requested Analysis
<input type="checkbox"/> 2 Day	Requested Analysis
<input checked="" type="checkbox"/> Standard (7 working days)	Requested Analysis
<input type="checkbox"/> (TPH analysis 5 working days)	Requested Analysis
<input type="checkbox"/> (other)	Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTFP-HCID	NWTFP-GX/BTEX	NWTFP-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total PAHs	TCLP Metals	HEM by 1664	TOC	Box/Tr. 8290	VPH/EPT	Archive	% Moisture	
1	GMX-S32-4-6	7/16/08	1535	S	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	GMX-S33-4-6	7/16/08	1605	S	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	GMX-S8-0-1	7/16/08	1610	S	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	GMX-S8-2-4	7/16/08	1615	S	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	GMX-S8-4-6	7/16/08	1620	S	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	GMX-MW1-0-1.5	7/17/08	0820	S	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	GMX-MW1-4.5-6.5	7/17/08	0834	S	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8	GMX-MW1-12-13.5	7/17/08	0855	S	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9	GMX-MW3-0-1.5	7/17/08	1100	S	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10	GMX-MW3-1.5-3	7/17/08	1130	S	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Comments/Special Instructions:

1. Special RIs, see QAPP T1+T2.
 2. NO PRESERVATION!
 3. wood in samples
 4. please call ZAS w/TPH-DX results ASAP. 206-499-7588
- ⊗ Added 7/30/08. DB

Time

AMEC Geomatrix 7/17/08 1652
OZE 7/17/08 1652

Date

7/17/08 1652
7/17/08 1652

Company

AMEC Geomatrix
OZE

Signature

[Handwritten Signature]

Relinquished by

Received by

Relinquished by

Received by

Relinquished by

Received by

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report



OnSite Environmental Inc.

Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: AMEC Geomatrix
 Project Number: 10654.000
 Project Name: Custom Plywood
 Project Manager: Kathleen Goodman
 Sampled by: C. Brown + Z. Satterwhite

Chain of Custody

Laboratory Number: 07-129

Turnaround Request (in working days)

(Check One)

- Same Day 1 Day
- 2 Day 3 Day
- Standard (7 working days)
(TPH analysis 5 working days)
- (other)

Requested Analysis

Requested Analysis	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15	Lab 16
NWTPH-HCID	⊗	⊗	⊗		X	
NWTPH-G/BTEX	⊗	⊗	⊗			
NWTPH-DX	⊗	⊗	⊗			
Volatiles by 8260B						
Halogenated Volatiles by 8260B						
Semivolatiles by 8270D						
PAHs by 8270D / SIM	⊗	⊗	⊗			
PCBs by 8082	⊗	⊗	⊗			
Pesticides by 8081A						
Herbicides by 8151A						
Total PCBs Metals	X				X	
TCLP Metals						
HEM by 1664						
Tot	X	⊗	⊗		X	
Biox/Fac.	⊗					
VPH/EPH	⊗					
Archive						
% Moisture	X	⊗	⊗		X	

ZAS 7/17/08

Signature	Company	Date	Time	Comments/Special Instructions
	AMEC Geomatrix	7/17/08	1652	1. Special RLS, see QAPP T1 + T2.
	AMEC Geomatrix	7/17/08	1652	2. No preservation!
				3. Wood in samples
				4. Please call ZAS w/TPH-Dx results ASAP - 206 499 7588
				Added 7/30/08 - DJB
Relinquished by				Chromatograms with final report
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date				



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

David Baumeister
Onsite Environmental, Inc.
14648 NE 95th Street
Redmond WA 98052

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

Pace Project #: 1077704
Sample Receipt Date: 07/25/2008
Client Project #: 10654.000
Client Sub PO #: N/A
State Cert #: C218

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed and prepared by:

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:

August 11, 2008



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on one sample submitted by a representative of Onsite Environmental, Inc.. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Reporting limits were set to correspond to one-fifth of the lowest calibration points. The sample was received outside of the recommended temperature range of 0-6 degrees Celsius.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 42-72%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of native or labeled PCDD or PCDF congeners. The affected values were flagged "I" where incorrect isotope ratios were obtained, or "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These were below the calibration range of the method. The levels reported for the affected congeners in the field samples were higher than the corresponding blank levels by one or more orders of magnitude. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field sample.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 89-115%, indicating a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management



Sample Condition Upon Receipt

Client Name: onsite environmental Project # 1077704

Courier: [] Fed Ex [X] UPS [] USPS [] Client [] Commercial [] Pace Other

Tracking #: 12684E1W0390275015

Custody Seal on Cooler/Box Present: [] yes [X] no Seals intact: [] yes [X] no

Optional: Proj. Due Date Proj. Name

Packing Material: [X] Bubble Wrap [] Bubble Bags [] None [] Other Temp Blank: Yes No [X]

Thermometer Used 80344042 179425 Type of Ice: Wet [X] Blue None [] Samples on ice, cooling process has begun

Cooler Temperature 17.0°C Biological Tissue Is Frozen: Yes No Temp should be above freezing to 6°C ice all melted

Date and initials of person examining contents: 7/25/08

Table with 16 rows and 3 columns. Columns: Question, Yes/No/N/A checkboxes, and numerical index. Rows include Chain of Custody Present, Chain of Custody Filled Out, Chain of Custody Relinquished, Sampler Name & Signature on COC, Samples Arrived within Hold Time, Short Hold Time Analysis (<72hr), Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing acid/base preservation have been checked, All containers needing preservation are found to be in compliance with EPA recommendation, Samples checked for dechlorination, Headspace in VOA Vials (>6mm), Trip Blank Present, Trip Blank Custody Seals Present, Pace Trip Blank Lot # (if purchased).

Client Notification/ Resolution: Person Contacted: David B. Date/Time: 07/25/08 Field Data Required? Y / N

Comments/ Resolution: - 8290 method - Unaired temp req.

Project Manager Review: [Signature] Date: 07/25/08

Appendix B

Sample Analysis Summary



Method 8290 Sample Analysis Results

Client - Onsite Environmental, Inc.

Client's Sample ID	GMX-MW1-4.5-6.5		
Lab Sample ID	1077704001		
Filename	U80806B_14		
Injected By	BAL		
Total Amount Extracted	18.7 g	Matrix	Solid
% Moisture	43.7	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	07/17/2008
ICAL ID	U80622	Received	07/25/2008
CCal Filename(s)	U80806A_16 & U80806B_16	Extracted	07/30/2008
Method Blank ID	BLANK-17112	Analyzed	08/07/2008 14:16

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	0.72	A	2,3,7,8-TCDF-13C	2.00	64
Total TCDF	3.7	---	0.72		2,3,7,8-TCDD-13C	2.00	68
					1,2,3,7,8-PeCDF-13C	2.00	58
2,3,7,8-TCDD	ND	---	0.63	A	2,3,4,7,8-PeCDF-13C	2.00	60
Total TCDD	37.0	---	0.63		1,2,3,7,8-PeCDD-13C	2.00	65
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	---	0.95		1,2,3,6,7,8-HxCDF-13C	2.00	64
2,3,4,7,8-PeCDF	3.5	---	0.95	J	2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	20.0	---	0.95		1,2,3,7,8,9-HxCDF-13C	2.00	61
					1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	1.8	---	0.95	J	1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	23.0	---	0.95		1,2,3,4,6,7,8-HpCDF-13C	2.00	54
					1,2,3,4,7,8,9-HpCDF-13C	2.00	42
1,2,3,4,7,8-HxCDF	---	11.0	0.95	I	1,2,3,4,6,7,8-HpCDD-13C	2.00	47
1,2,3,6,7,8-HxCDF	---	5.0	0.95	E	OCDD-13C	4.00	48 Y
2,3,4,6,7,8-HxCDF	6.8	---	0.95				
1,2,3,7,8,9-HxCDF	1.2	---	0.95	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	44.0	---	0.95		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	5.9	---	0.95		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	22.0	---	0.95				
1,2,3,7,8,9-HxCDD	7.7	---	0.95				
Total HxCDD	180.0	---	0.95				
1,2,3,4,6,7,8-HpCDF	80.0	---	0.95		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	6.4	---	0.95		Equivalence: 22 ng/Kg		
Total HpCDF	87.0	---	0.95		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	680.0	---	0.95				
Total HpCDD	1300.0	---	0.95				
OCDF	430.0	---	1.90				
OCDD	6400.0	---	1.90				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Value below calibration range
A = Reporting Limit based on signal to noise
E = PCDE Interference
I = Interference present
Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-17112	Matrix	Solid
Filename	U80804A_04	Dilution	NA
Total Amount Extracted	10.7 g	Extracted	07/30/2008
ICAL ID	U80622	Analyzed	08/04/2008 21:34
CCal Filename(s)	U80803B_16 & U80804A_16	Injected By	BPG

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	0.19	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	---	0.19	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	---	0.19 A	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	0.48	---	0.19 J	1,2,3,7,8-PeCDD-13C	2.00	65
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	---	0.93	1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	ND	---	0.93	2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	ND	---	0.93	1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	---	0.93	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	---	0.93	1,2,3,4,6,7,8-HpCDF-13C	2.00	72
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	---	0.93	1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	---	0.93	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	---	0.93			
1,2,3,7,8,9-HxCDF	ND	---	0.93	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	0.93	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	0.93	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	---	0.93			
1,2,3,7,8,9-HxCDD	ND	---	0.93			
Total HxCDD	ND	---	0.93			
1,2,3,4,6,7,8-HpCDF	ND	---	0.93	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	0.93	Equivalence: 0.0025 ng/Kg		
Total HpCDF	ND	---	0.93	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	0.93			
Total HpCDD	0.93	---	0.93 J			
OCDF	ND	---	1.90			
OCDD	2.50	---	1.90 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Value below calibration range
A = Reporting Limit based on signal to noise

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-17113	Matrix	Solid
Filename	U80804A_01	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	07/30/2008
ICAL ID	U80622	Analyzed	08/04/2008 19:05
CCal Filename(s)	U80803B_16 & U80804A_16	Injected By	BPG
Method Blank ID	BLANK-17112		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	102	2,3,7,8-TCDF-13C	2.00	78
Total TCDF				2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	0.20	0.18	89	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	71
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	1.00	1.14	114	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	1.00	1.10	110	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	1.00	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	73
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	1.00	1.08	108	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	1.00	1.15	115	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	1.00	1.12	112			
1,2,3,7,8,9-HxCDF	1.00	1.12	112	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.97	97	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	1.00	1.07	107			
1,2,3,7,8,9-HxCDD	1.00	1.01	101			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.00	100			
1,2,3,4,7,8,9-HpCDF	1.00	1.03	103			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	0.97	97			
Total HpCDD						
OCDF	2.00	1.86	93			
OCDD	2.00	2.11	106			

Qs = Quantity Spiked
 Qm = Quantity Measured
 Rec. = Recovery (Expressed as Percent)
 P = Recovery outside of target range
 X = Background subtracted value
 Nn = Value obtained from additional analysis
 NA = Not Applicable
 * = See Discussion

REPORT OF LABORATORY ANALYSIS

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applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in EPA documents (EPA, 1999 and 2004).

Samples were analyzed for TPH as diesel, PAHs, total metals, and TOC by the methods identified in the introduction to this report and were evaluated for the following criteria.

1. Holding Times – Acceptable
2. Blanks – Acceptable
3. BS/BSD – Acceptable except as noted:

The laboratory did not report blank spike results if acceptable MS/MSD results were reported. Therefore, BS/BSD results were not reported for total metals analyses. The BS/BSD results reported for the remaining analyses were acceptable.

4. MS/MSD – Acceptable
5. Surrogates – Acceptable

PAHs by EPA 8270D-SIM: the recovery of surrogate terphenyl-d14 in sample GMX-S47-6-8 was 48%, less than the control limits of 54-126%. The recovery of surrogate pyrene-d10 in sample GMX-S39-4-6 was 127%, greater than the control limits of 40-120%. The samples were not reanalyzed because OnSite's SOP allows for one surrogate to be out of the control limits as long as the recovery is greater than 10%. The detected and non-detected results in sample GMX-S47-6-8 were qualified as estimated and flagged with a "J", and the detected results in sample GMX-S39-4-6 were qualified as estimated and flagged with a "J".

Diesel by NWTPH-Dx: the surrogate was not recovered in sample GMX-S39-4-6 due to the dilution required to quantitate the diesel and oil concentrations in the sample. The results are not qualified.

6. Laboratory Duplicates – Acceptable
7. Reporting Limits – Acceptable

OVERALL ASSESSMENT OF DATA

The OnSite SDG 0904-127 is 100% complete. The data usability is based on EPA's guidance documents and the QAPP. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

Memo
May 14, 2009
Page 3 of 3

REFERENCES

EPA (U.S. Environmental Protection Agency), 1995, Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), Third Edition, September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995; Final Update III, December 1996; Final Update IIIA, April 1998.

EPA, 1999, U.S. EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review: EPA 540/R-99/008, October.

EPA, 2004, U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review: EPA 540-R-04-004, October.

AMEC Geomatrix, 2008. Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, September.

Sample ID	Laboratory Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
GMX-S36-2-4	04-127-01	none			
GMX-S36-4-6	04-127-02	none			
GMX-S36-6-8	04-127-03	none			
GMX-S41-2-4	04-127-04	none			
GMX-S41-4-6	04-127-05	none			
GMX-S41-6-8	04-127-06	none			
GMX-S40-2-4	04-127-07	none			
GMX-S40-4-6	04-127-08	none			
GMX-S40-6-8	04-127-09	none			
GMX-S39-2-4	04-127-10	none			
GMX-S46-2-4	04-127-11	none			
GMX-S46-4-6	04-127-12	none			
GMX-S47-2-4	04-127-13	none			
GMX-S47-4-6	04-127-14	none			
GMX-S47-6-8	04-127-15	all PAHs	J or UJ	mg/Kg	Low surrogate recovery
GMX-S34-2-4	04-127-16	none			
GMX-S34-4-6	04-127-17	none			
GMX-S35-2-4	04-127-18	none			
GMX-S35-4-6	04-127-19	none			
GMX-S35-6-8	04-127-20	none			
GMX-S39-4-6	04-127-21	2-methylnaphthalene 1-methylnaphthalene acenaphthylene phenanthrene fluoranthene pyrene chrysene benzo(b)fluoranthene benzo(a)pyrene indeno(1,2,3-cd)pyrene benzo(g,h,i)perylene	0.71 J 0.44 J 0.30 J 1.0 J 0.34 J 1.4 J 0.20 J 0.23 J 0.30 J 0.24 J 0.33 J	mg/Kg	High surrogate recovery
GMX-S39-6-8	04-127-22	none			
GMX-S38-2-4	04-127-23	none			
GMX-S38-4-6	04-127-24	none			
GMX-S38-6-8	04-127-25	none			
GMX-S37-2-4	04-127-26	none			
GMX-S37-4-6	04-127-27	none			
GMX-S37-6-8	04-127-28	none			
GMX-S42-2-4	04-127-29	none			
GMX-S42-4-6	04-127-30	none			
GMX-S42-6-8	04-127-31	none			
GMX-S45-2-4	04-127-32	none			
GMX-S45-4-6	04-127-33	none			
GMX-S45-6-8	04-127-34	none			

Sample ID	Laboratory Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
GMX-S44-2-4	04-127-35	none			
GMX-S44-4-6	04-127-36	none			
GMX-S44-6-8	04-127-37	none			
GMX-S43-2-4	04-127-38	none			
GMX-S43-4-6	04-127-39	none			
GMX-S43-6-8	04-127-40	none			



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 8, 2009

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654
Laboratory Reference No. 0904-127

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on April 16, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 8, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-127
Project: 10654

Case Narrative

Samples were collected on April 15 and 16, 2009, and received by the laboratory on April 16, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PAHs EPA 8270D/SIM Analysis

Samples GMX-S47-6-8 and GMX-S39-4-6 had one surrogate recovery out of control limits. This is within allowance of our standard operation procedure as long as the recovery is above 10%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-20-09
 Date Analyzed: 4-20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S36-2-4	GMX-S36-4-6	GMX-S36-6-8
Lab ID:	04-127-01	04-127-02	04-127-03
Diesel Range:	49	ND	ND
PQL:	36	34	43
Identification:	Diesel Range Organics	---	---
Lube Oil Range:	470	100	120
PQL:	72	68	86
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	121%	98%	97%
Flags:	Y	Y	Y

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-20-09
 Date Analyzed: 4-20-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S41-2-4	GMX-S41-4-6	GMX-S41-6-8
Lab ID:	04-127-04	04-127-05	04-127-06
Diesel Range:	ND	ND	4000
PQL:	31	83	190
Identification:	---	---	Diesel Range Organics
Lube Oil Range:	ND	ND	4300
PQL:	63	170	380
Identification:	---	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	88%	99%	99%
Flags:	Y	Y	Y

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-20-09
 Date Analyzed: 4-20-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S40-2-4	GMX-S40-4-6	GMX-S40-6-8
Lab ID:	04-127-07	04-127-08	04-127-09
Diesel Range:	ND	ND	8400
PQL:	29	29	370
Identification:	---	---	Diesel Range Organics
Lube Oil Range:	86	ND	31000
PQL:	59	59	740
Identification:	Lube Oil	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	99%	83%	126%
Flags:	Y	Y	Y,M1

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-20-09
 Date Analyzed: 4-20-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S39-2-4	GMX-S46-2-4	GMX-S46-4-6
Lab ID:	04-127-10	04-127-11	04-127-12
Diesel Range:	ND	ND	ND
PQL:	31	31	58
Identification:	---	---	---
Lube Oil Range:	320	ND	270
PQL:	62	63	120
Identification:	Lube Oil	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	89%	124%	96%
Flags:	Y	Y	Y

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-20-09
 Date Analyzed: 4-20-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S47-2-4	GMX-S47-4-6	GMX-S47-6-8
Lab ID:	04-127-13	04-127-14	04-127-15

Diesel Range:	64	420	140
PQL:	37	100	140

Identification:	Diesel Range Organics	Diesel Range Organics	Diesel Range Organics
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Lube Oil Range:	410	2100	770
PQL:	75	200	280

Identification:	Lube Oil	Lube Oil	Lube Oil
-----------------	----------	----------	----------

Surrogate Recovery			
o-Terphenyl:	93%	137%	116%

Flags:	Y	Y	Y
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Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-20-09
 Date Analyzed: 4-20-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S34-2-4	GMX-S34-4-6	GMX-S35-2-4
Lab ID:	04-127-16	04-127-17	04-127-18
Diesel Range:	ND	ND	ND
PQL:	29	29	34
Identification:	---	---	---
Lube Oil Range:	ND	ND	110
PQL:	57	58	68
Identification:	---	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	96%	108%	93%
Flags:	Y	Y	Y

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-20&21-09
 Date Analyzed: 4-20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S35-4-6	GMX-S35-6-8	GMX-S39-4-6
Lab ID:	04-127-19	04-127-20	04-127-21
Diesel Range:	ND	ND	30000
PQL:	28	30	760
Identification:	---	---	Diesel Range Organics
Lube Oil Range:	85	ND	ND
PQL:	56	60	12000
Identification:	Lube Oil	---	---
Surrogate Recovery			
o-Terphenyl:	80%	95%	---
Flags:	Y	Y	Y,U1,S

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
 Date Analyzed: 4-21&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S39-6-8	GMX-S38-2-4	GMX-S38-4-6
Lab ID:	04-127-22	04-127-23	04-127-24
Diesel Range:	3500	ND	ND
PQL:	81	42	55
Identification:	Diesel Range Organics	---	---
Lube Oil Range:	ND	1100	1500
PQL:	1600	60	55
Identification:	---	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	112%	133%	133%
Flags:	Y,U1	Y	Y,U1

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
 Date Analyzed: 4-21&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S38-6-8	GMX-S37-2-4	GMX-S37-4-6
Lab ID:	04-127-25	04-127-26	04-127-27
Diesel Range:	330	ND	150
PQL:	30	30	39
Identification:	Diesel Range Organics	---	Diesel Fuel#2
Lube Oil Range:	ND	650	610
PQL:	300	60	77
Identification:	---	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	128%	149%	133%
Flags:	Y,U1	Y	Y

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
 Date Analyzed: 4-21&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S37-6-8	GMX-S42-2-4	GMX-S42-4-6
Lab ID:	04-127-28	04-127-29	04-127-30
Diesel Range:	5800	ND	ND
PQL:	31	29	51
Identification:	Diesel Fuel#2	---	---
Lube Oil Range:	1400	66	940
PQL:	61	59	100
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	84%	94%	118%
Flags:	Y	Y	Y

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
 Date Analyzed: 4-21&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S42-6-8	GMX-S45-2-4	GMX-S45-4-6
Lab ID:	04-127-31	04-127-32	04-127-33

Diesel Range:	230	1500	ND
PQL:	96	63	520

Identification:	Diesel Range Organics	Diesel Range Organics	---
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Lube Oil Range:	1800	2000	4900
PQL:	190	130	110

Identification:	Lube Oil	Lube Oil	Lube Oil
-----------------	----------	----------	----------

Surrogate Recovery			
o-Terphenyl:	106%	119%	134%

Flags:	Y	Y	Y,U1
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Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
 Date Analyzed: 4-21&22&23-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S45-6-8	GMX-S44-2-4	GMX-S44-4-6
Lab ID:	04-127-34	04-127-35	04-127-36
Diesel Range:	ND	ND	360
PQL:	150	29	64
Identification:	---	---	Diesel Range Organics
Lube Oil Range:	380	750	590
PQL:	290	58	130
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	133%	141%	99%
Flags:	Y	Y	Y

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
 Date Analyzed: 4-21&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S44-6-8	GMX-S43-2-4	GMX-S43-4-6
Lab ID:	04-127-37	04-127-38	04-127-39

Diesel Range:	3800	230	1700
PQL:	110	33	48

Identification:	Diesel Range Organics	Diesel Range Organics	Diesel Range Organics
-----------------	-----------------------	-----------------------	-----------------------

Lube Oil Range:	4100	520	ND
PQL:	220	67	1100

Identification:	Lube Oil	Lube Oil	---
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Surrogate Recovery			
o-Terphenyl:	122%	111%	145%

Flags:	Y,M	Y	Y,U1
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Date of Report: May 8, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-127
Project: 10654

NWTPH-Dx

Date Extracted: 4-21-09
Date Analyzed: 4-21-09

Matrix: Soil
Units: mg/kg (ppm)

Client ID: GMX-S43-6-8
Lab ID: 04-127-40

Diesel Range: **ND**
PQL: 49
Identification: ---

Lube Oil Range: **190**
PQL: 98
Identification: Lube Oil

Surrogate Recovery
o-Terphenyl: 116%

Flags: Y

Date of Report: May 8, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-127
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-20-09
Date Analyzed: 4-20-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0420S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 105%

Flags: Y

Date of Report: May 8, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-127
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-21-09
Date Analyzed: 4-21-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0421S2

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 132%

Flags: Y

Date of Report: May 8, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-127
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 4-20-09
Date Analyzed: 4-20-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-127-04 04-127-04 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 88% 119%

Flags: Y Y

Date of Report: May 8, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-127
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 4-20-09
Date Analyzed: 4-20-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-127-07 04-127-07 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 99% 92%

Flags: Y Y

Date of Report: May 8, 2009
Samples Submitted: April 16, 2009
Laboratory Reference: 0904-127
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 4-21-09
Date Analyzed: 4-21-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-127-26 04-127-26 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 149% 107%

Flags: Y Y

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-01
 Client ID: **GMX-S36-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	7.2
Arsenic	6010B	ND	7.2
Beryllium	6010B	ND	0.72
Cadmium	6010B	ND	0.72
Chromium	6010B	34	0.72
Copper	6010B	38	1.4
Lead	6010B	9.9	7.2
Mercury	7471A	0.037	0.029
Nickel	6010B	34	3.6
Selenium	6020	ND	0.72
Silver	6020	ND	0.18
Thallium	6020	ND	0.36
Zinc	6010B	91	3.6

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-04
 Client ID: **GMX-S41-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.3
Arsenic	6010B	ND	6.3
Beryllium	6010B	ND	0.63
Cadmium	6010B	ND	0.63
Chromium	6010B	20	0.63
Copper	6010B	13	1.3
Lead	6010B	ND	6.3
Mercury	7471A	ND	0.025
Nickel	6010B	22	3.1
Selenium	6020	ND	0.63
Silver	6020	ND	0.16
Thallium	6020	ND	0.31
Zinc	6010B	30	3.1

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-07
 Client ID: **GMX-S40-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.9
Arsenic	6010B	ND	5.9
Beryllium	6010B	ND	0.59
Cadmium	6010B	ND	0.59
Chromium	6010B	24	0.59
Copper	6010B	28	1.2
Lead	6010B	28	5.9
Mercury	7471A	ND	0.024
Nickel	6010B	25	2.9
Selenium	6020	ND	0.59
Silver	6020	0.28	0.15
Thallium	6020	ND	0.29
Zinc	6010B	70	2.9

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-10
 Client ID: **GMX-S39-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.2
Arsenic	6010B	ND	6.2
Beryllium	6010B	ND	0.62
Cadmium	6010B	ND	0.62
Chromium	6010B	37	0.62
Copper	6010B	51	1.2
Lead	6010B	9.2	6.2
Mercury	7471A	0.051	0.025
Nickel	6010B	58	3.1
Selenium	6020	ND	0.62
Silver	6020	ND	0.15
Thallium	6020	ND	0.31
Zinc	6010B	56	3.1

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-11
 Client ID: **GMX-S46-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.3
Arsenic	6010B	ND	6.3
Beryllium	6010B	ND	0.63
Cadmium	6010B	ND	0.63
Chromium	6010B	38	0.63
Copper	6010B	11	1.3
Lead	6010B	ND	6.3
Mercury	7471A	ND	0.025
Nickel	6010B	67	3.1
Selenium	6020	ND	0.63
Silver	6020	ND	0.16
Thallium	6020	ND	0.31
Zinc	6010B	32	3.1

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-13
 Client ID: **GMX-S47-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	25	7.5
Arsenic	6010B	ND	7.5
Beryllium	6010B	ND	0.75
Cadmium	6010B	ND	0.75
Chromium	6010B	30	0.75
Copper	6010B	38	1.5
Lead	6010B	26	7.5
Mercury	7471A	0.074	0.030
Nickel	6010B	23	3.7
Selenium	6020	0.79	0.75
Silver	6020	ND	0.19
Thallium	6020	ND	0.37
Zinc	6010B	98	3.7

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-18
 Client ID: **GMX-S35-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.8
Arsenic	6010B	ND	6.8
Beryllium	6010B	ND	0.68
Cadmium	6010B	ND	0.68
Chromium	6010B	36	0.68
Copper	6010B	53	1.4
Lead	6010B	35	6.8
Mercury	7471A	0.040	0.027
Nickel	6010B	35	3.4
Selenium	6020	ND	0.68
Silver	6020	ND	0.17
Thallium	6020	ND	0.34
Zinc	6010B	180	3.4

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-23
 Client ID: **GMX-S38-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.0
Arsenic	6010B	ND	6.0
Beryllium	6010B	ND	0.60
Cadmium	6010B	ND	0.60
Chromium	6010B	46	0.60
Copper	6010B	39	1.2
Lead	6010B	10	6.0
Mercury	7471A	0.029	0.024
Nickel	6010B	77	3.0
Selenium	6020	ND	0.60
Silver	6020	ND	0.15
Thallium	6020	ND	0.30
Zinc	6010B	58	3.0

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-26
 Client ID: **GMX-S37-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.0
Arsenic	6010B	7.8	6.0
Beryllium	6010B	ND	0.60
Cadmium	6010B	ND	0.60
Chromium	6010B	29	0.60
Copper	6010B	52	1.2
Lead	6010B	25	6.0
Mercury	7471A	0.065	0.024
Nickel	6010B	36	3.0
Selenium	6020	ND	0.60
Silver	6020	0.15	0.15
Thallium	6020	ND	0.30
Zinc	6010B	120	3.0

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-29
 Client ID: **GMX-S42-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.9
Arsenic	6010B	ND	5.9
Beryllium	6010B	ND	0.59
Cadmium	6010B	ND	0.59
Chromium	6010B	40	0.59
Copper	6010B	36	1.2
Lead	6010B	6.0	5.9
Mercury	7471A	0.051	0.024
Nickel	6010B	45	2.9
Selenium	6020	ND	0.59
Silver	6020	ND	0.15
Thallium	6020	ND	0.29
Zinc	6010B	61	2.9

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-32
 Client ID: **GMX-S45-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	13
Arsenic	6020	8.2	6.3
Beryllium	6010B	ND	1.3
Cadmium	6010B	1.7	1.3
Chromium	6010B	34	1.3
Copper	6010B	140	2.5
Lead	6010B	34	13
Mercury	7471A	ND	0.025
Nickel	6010B	35	6.3
Selenium	6020	ND	1.3
Silver	6020	0.40	0.31
Thallium	6020	ND	0.25
Zinc	6010B	190	6.3

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-35
 Client ID: **GMX-S44-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.8
Arsenic	6010B	ND	5.8
Beryllium	6010B	ND	0.58
Cadmium	6010B	ND	0.58
Chromium	6010B	39	0.58
Copper	6010B	53	1.2
Lead	6010B	12	5.8
Mercury	7471A	0.095	0.023
Nickel	6010B	35	2.9
Selenium	6020	ND	0.58
Silver	6020	ND	0.15
Thallium	6020	ND	0.29
Zinc	6010B	72	2.9

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
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**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-127-38
 Client ID: **GMX-S43-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.7
Arsenic	6010B	ND	6.7
Beryllium	6010B	ND	0.67
Cadmium	6010B	ND	0.67
Chromium	6010B	29	0.67
Copper	6010B	74	1.3
Lead	6010B	35	6.7
Mercury	7471A	0.032	0.027
Nickel	6010B	31	3.3
Selenium	6020	ND	0.67
Silver	6020	0.21	0.17
Thallium	6020	ND	0.33
Zinc	6010B	110	3.3

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: MB0417S1,MB0420S1&MB0421S1

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.0
Arsenic	6010B	ND	5.0
Beryllium	6010B	ND	0.50
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Copper	6010B	ND	1.0
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.010
Nickel	6010B	ND	2.5
Selenium	6020	ND	0.50
Silver	6020	ND	0.13
Thallium	6020	ND	0.10
Zinc	6010B	ND	2.5

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**TOTAL METALS
 EPA 6010B/6020/7471A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-095-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	12.0	11.7	3	0.50	
Copper	14.9	13.8	7	1.0	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.020	
Nickel	8.37	8.12	3	2.5	
Selenium	ND	ND	NA	0.50	
Silver	ND	ND	NA	0.50	
Thallium	ND	ND	NA	0.025	
Zinc	24.4	23.0	6	2.5	

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
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**TOTAL METALS
 EPA 6010B/6020/7471A
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-17,20&21-09
 Date Analyzed: 4-17,20&22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-095-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	91.3	91	91.9	92	1	
Arsenic	100	94.4	94	96.6	97	2	
Beryllium	25	24.1	96	24.5	98	2	
Cadmium	50	47.2	94	47.9	96	2	
Chromium	100	105	93	107	95	2	
Copper	50	61.1	92	62.6	95	2	
Lead	250	225	90	228	91	2	
Mercury	0.50	0.512	102	0.477	95	7	
Nickel	100	100	92	102	93	2	
Selenium	100	93.1	93	94.3	94	1	
Silver	25	22.9	92	23.2	93	1	
Thallium	25	26.0	104	26.4	106	2	
Zinc	100	115	91	118	93	2	

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S36-2-4					
Laboratory ID:	04-127-01					
Naphthalene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
2-Methylnaphthalene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
1-Methylnaphthalene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Acenaphthylene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Acenaphthene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Fluorene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Phenanthrene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Anthracene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Fluoranthene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Pyrene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[a]anthracene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Chrysene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[b]fluoranthene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[k]fluoranthene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[a]pyrene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Dibenz[a,h]anthracene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[g,h,i]perylene	ND	0.0097	EPA 8270/SIM	4-28-09	4-30-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>82</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>79</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
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 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S41-6-8					
Laboratory ID:	04-127-06					
Naphthalene	0.11	0.051	EPA 8270/SIM	4-28-09	4-30-09	
2-Methylnaphthalene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
1-Methylnaphthalene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Acenaphthylene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Acenaphthene	0.17	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Fluorene	0.075	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Phenanthrene	0.056	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Anthracene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Fluoranthene	0.11	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Pyrene	0.071	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[a]anthracene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Chrysene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[b]fluoranthene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[k]fluoranthene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[a]pyrene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Indeno(1,2,3-c,d)pyrene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Dibenz[a,h]anthracene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[g,h,i]perylene	ND	0.051	EPA 8270/SIM	4-28-09	4-30-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>92</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>84</i>	<i>54 - 126</i>				

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 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S40-6-8					
Laboratory ID:	04-127-09					
Naphthalene	7.7	0.39	EPA 8270/SIM	4-28-09	4-30-09	
2-Methylnaphthalene	2.0	0.39	EPA 8270/SIM	4-28-09	4-30-09	
1-Methylnaphthalene	2.5	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Acenaphthylene	16	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Acenaphthene	3.8	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Fluorene	7.5	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Phenanthrene	99	2.0	EPA 8270/SIM	4-28-09	5-1-09	
Anthracene	12	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Fluoranthene	130	2.0	EPA 8270/SIM	4-28-09	5-1-09	
Pyrene	140	2.0	EPA 8270/SIM	4-28-09	5-1-09	
Benzo[a]anthracene	41	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Chrysene	59	2.0	EPA 8270/SIM	4-28-09	5-1-09	
Benzo[b]fluoranthene	43	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[k]fluoranthene	39	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[a]pyrene	74	2.0	EPA 8270/SIM	4-28-09	5-1-09	
Indeno(1,2,3-c,d)pyrene	42	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Dibenz[a,h]anthracene	11	0.39	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[g,h,i]perylene	51	2.0	EPA 8270/SIM	4-28-09	5-1-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>53</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>63</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>81</i>	<i>54 - 126</i>				

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PAHs by EPA 8270/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S47-2-4					
Laboratory ID:	04-127-13					
Naphthalene	0.11	0.010	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	0.033	0.010	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	0.024	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	0.19	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	0.015	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	0.035	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	0.73	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	0.11	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	1.3	0.100	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	1.2	0.100	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	0.51	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.77	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	0.78	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	0.70	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	0.86	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	0.95	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	0.19	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	1.2	0.010	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>72</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>76</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>54 - 126</i>				

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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S47-4-6					
Laboratory ID:	04-127-14					
Naphthalene	0.11	0.027	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	0.061	0.027	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	0.058	0.027	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	1.1	0.027	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	0.14	0.027	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	1.0	0.027	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	12	0.27	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	4.4	0.27	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	14	0.27	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	16	0.27	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	7.8	0.27	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	8.2	0.27	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	3.4	0.27	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	5.0	0.27	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	7.3	0.27	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	2.9	0.027	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	1.0	0.027	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	2.8	0.027	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>79</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>76</i>	<i>54 - 126</i>				

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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S47-6-8					
Laboratory ID:	04-127-15					
Naphthalene	0.22	0.037	EPA 8270/SIM	4-29-09	5-1-09	
2-Methylnaphthalene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
1-Methylnaphthalene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Acenaphthylene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Acenaphthene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Fluorene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Phenanthrene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Anthracene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Fluoranthene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Pyrene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[a]anthracene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Chrysene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[b]fluoranthene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[k]fluoranthene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[a]pyrene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Indeno(1,2,3-c,d)pyrene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Dibenz[a,h]anthracene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[g,h,i]perylene	ND	0.037	EPA 8270/SIM	4-29-09	5-1-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>56</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>51</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>48</i>	<i>54 - 126</i>				Q

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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S39-4-6					
Laboratory ID:	04-127-21					
Naphthalene	ND	0.20	EPA 8270/SIM	4-29-09	5-1-09	
2-Methylnaphthalene	0.71	0.20	EPA 8270/SIM	4-29-09	5-1-09	
1-Methylnaphthalene	0.44	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Acenaphthylene	0.30	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Acenaphthene	ND	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Fluorene	ND	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Phenanthrene	1.0	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Anthracene	ND	1.0	EPA 8270/SIM	4-29-09	5-1-09	U1
Fluoranthene	0.34	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Pyrene	1.4	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[a]anthracene	ND	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Chrysene	0.20	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[b]fluoranthene	0.23	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[k]fluoranthene	ND	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[a]pyrene	0.30	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Indeno(1,2,3-c,d)pyrene	0.24	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Dibenz[a,h]anthracene	ND	0.20	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[g,h,i]perylene	0.33	0.20	EPA 8270/SIM	4-29-09	5-1-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>93</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>127</i>	<i>40-120</i>				Q
<i>Terphenyl-d14</i>	<i>83</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S39-6-8					
Laboratory ID:	04-127-22					
Naphthalene	ND	0.43	EPA 8270/SIM	4-29-09	4-30-09	
2-Methylnaphthalene	ND	0.43	EPA 8270/SIM	4-29-09	4-30-09	
1-Methylnaphthalene	ND	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Acenaphthylene	ND	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Acenaphthene	ND	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Fluorene	ND	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Phenanthrene	0.49	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Anthracene	ND	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Fluoranthene	1.5	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Pyrene	1.9	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[a]anthracene	0.76	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Chrysene	1.1	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[b]fluoranthene	0.74	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[k]fluoranthene	0.83	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[a]pyrene	1.4	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Indeno(1,2,3-c,d)pyrene	0.70	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Dibenz[a,h]anthracene	ND	0.43	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[g,h,i]perylene	0.84	0.43	EPA 8270/SIM	4-29-09	4-30-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>78</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>76</i>	<i>54 - 126</i>				

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 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S38-2-4					
Laboratory ID:	04-127-23					
Naphthalene	ND	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	ND	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	ND	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	ND	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	ND	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	ND	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	0.0090	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	ND	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.020	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.021	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	0.011	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.021	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	0.013	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	0.0095	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	0.016	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	0.0083	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	0.017	0.0079	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>84</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>84</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>54 - 126</i>				

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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S38-4-6					
Laboratory ID:	04-127-24					
Naphthalene	ND	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	ND	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	ND	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	ND	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	ND	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	ND	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	0.013	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	ND	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.021	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.027	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	0.017	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.048	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	0.024	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	0.012	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	0.027	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	0.016	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	0.0096	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	0.031	0.0073	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>85</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>84</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>80</i>	<i>54 - 126</i>				

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 Project: 10654

PAHs by EPA 8270/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S38-6-8					
Laboratory ID:	04-127-25					
Naphthalene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	0.035	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.072	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.072	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	0.035	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.044	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	0.035	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	0.031	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	0.040	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	0.023	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	0.027	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>80</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>74</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>77</i>	<i>54 - 126</i>				

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 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S37-2-4					
Laboratory ID:	04-127-26					
Naphthalene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.013	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.013	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.014	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	0.013	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	0.0081	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	0.011	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	0.0093	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	0.012	0.0080	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>84</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>89</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>83</i>	<i>54 - 126</i>				

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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S37-4-6					
Laboratory ID:	04-127-27					
Naphthalene	0.010	0.010	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	0.023	0.010	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	0.015	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	0.037	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.020	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.022	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>79</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>74</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>54 - 126</i>				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S37-6-8					
Laboratory ID:	04-127-28					
Naphthalene	0.085	0.081	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	2.6	0.081	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	6.4	0.081	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	0.21	0.081	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	1.2	0.081	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	2.0	0.081	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	4.7	0.081	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	0.54	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.19	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.68	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	0.024	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.080	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	0.011	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	ND	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	0.011	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	0.0086	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	0.014	0.0081	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>96</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>93</i>	<i>54 - 126</i>				

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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S42-4-6					
Laboratory ID:	04-127-30					
Naphthalene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	0.025	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.072	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.057	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	0.015	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.024	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	ND	0.014	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>75</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>78</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>77</i>	<i>54 - 126</i>				

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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S42-6-8					
Laboratory ID:	04-127-31					
Naphthalene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
2-Methylnaphthalene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
1-Methylnaphthalene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Acenaphthylene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Acenaphthene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Fluorene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Phenanthrene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Anthracene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Fluoranthene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Pyrene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[a]anthracene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Chrysene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[b]fluoranthene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[k]fluoranthene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[a]pyrene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Indeno(1,2,3-c,d)pyrene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Dibenz[a,h]anthracene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
Benzo[g,h,i]perylene	ND	0.026	EPA 8270/SIM	4-29-09	5-1-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>77</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
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 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S45-2-4					
Laboratory ID:	04-127-32					
Naphthalene	ND	0.017	EPA 8270/SIM	4-29-09	5-4-09	
2-Methylnaphthalene	ND	0.017	EPA 8270/SIM	4-29-09	5-4-09	
1-Methylnaphthalene	ND	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Acenaphthylene	ND	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Acenaphthene	ND	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Fluorene	ND	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Phenanthrene	0.045	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Anthracene	ND	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Fluoranthene	0.056	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Pyrene	0.068	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[a]anthracene	0.019	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Chrysene	0.050	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[b]fluoranthene	0.025	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[k]fluoranthene	0.019	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[a]pyrene	0.029	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Indeno(1,2,3-c,d)pyrene	0.023	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Dibenz[a,h]anthracene	ND	0.017	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[g,h,i]perylene	0.031	0.017	EPA 8270/SIM	4-29-09	5-4-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>80</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>71</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S45-4-6					
Laboratory ID:	04-127-33					
Naphthalene	ND	0.30	EPA 8270/SIM	4-29-09	4-30-09	
2-Methylnaphthalene	ND	0.30	EPA 8270/SIM	4-29-09	4-30-09	
1-Methylnaphthalene	ND	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Acenaphthylene	ND	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Acenaphthene	ND	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Fluorene	ND	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Phenanthrene	0.51	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Anthracene	ND	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Fluoranthene	1.1	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Pyrene	1.3	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[a]anthracene	0.58	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Chrysene	0.80	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[b]fluoranthene	0.91	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[k]fluoranthene	0.74	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[a]pyrene	1.3	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Indeno(1,2,3-c,d)pyrene	0.84	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Dibenz[a,h]anthracene	ND	0.30	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[g,h,i]perylene	1.1	0.30	EPA 8270/SIM	4-29-09	4-30-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>85</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>93</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>89</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S44-2-4					
Laboratory ID:	04-127-35					
Naphthalene	ND	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	ND	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	ND	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	ND	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	ND	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	ND	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	0.030	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	0.0097	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.054	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.060	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	0.027	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.037	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	0.032	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	0.027	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	0.039	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	0.025	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	0.012	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	0.038	0.0078	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>85</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>83</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S44-4-6					
Laboratory ID:	04-127-36					
Naphthalene	ND	0.017	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	ND	0.017	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	ND	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	ND	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	ND	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	ND	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	0.082	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	0.019	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.16	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.17	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	0.067	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.071	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	0.050	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	0.048	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	0.079	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	0.041	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	ND	0.017	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	0.047	0.017	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>80</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>86</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>83</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S44-6-8					
Laboratory ID:	04-127-37					
Naphthalene	ND	0.029	EPA 8270/SIM	4-29-09	5-2-09	
2-Methylnaphthalene	ND	0.029	EPA 8270/SIM	4-29-09	5-2-09	
1-Methylnaphthalene	ND	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthylene	ND	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Acenaphthene	0.15	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Fluorene	0.10	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Phenanthrene	0.084	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Anthracene	ND	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Fluoranthene	0.12	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Pyrene	0.13	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]anthracene	0.046	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Chrysene	0.056	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[b]fluoranthene	0.039	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[k]fluoranthene	0.035	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[a]pyrene	0.062	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Indeno(1,2,3-c,d)pyrene	0.033	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Dibenz[a,h]anthracene	ND	0.029	EPA 8270/SIM	4-29-09	5-2-09	
Benzo[g,h,i]perylene	0.038	0.029	EPA 8270/SIM	4-29-09	5-2-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>84</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>81</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>78</i>	<i>54 - 126</i>				

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 Samples Submitted: April 16, 2009
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 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S43-2-4					
Laboratory ID:	04-127-38					
Naphthalene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
2-Methylnaphthalene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
1-Methylnaphthalene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Acenaphthylene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Acenaphthene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Fluorene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Phenanthrene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Anthracene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Fluoranthene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Pyrene	0.0091	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[a]anthracene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Chrysene	0.024	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[b]fluoranthene	0.012	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[k]fluoranthene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[a]pyrene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Dibenz[a,h]anthracene	ND	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
Benzo[g,h,i]perylene	0.018	0.0089	EPA 8270/SIM	4-29-09	5-4-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>84</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>86</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S43-4-6					
Laboratory ID:	04-127-39					
Naphthalene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
2-Methylnaphthalene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
1-Methylnaphthalene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Acenaphthylene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Acenaphthene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Fluorene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Phenanthrene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Anthracene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Fluoranthene	0.015	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Pyrene	0.014	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Benzo[a]anthracene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Chrysene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Benzo[b]fluoranthene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Benzo[k]fluoranthene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Benzo[a]pyrene	0.013	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Indeno(1,2,3-c,d)pyrene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Dibenz[a,h]anthracene	ND	0.013	EPA 8270/SIM	4-29-09	5-5-09	
Benzo[g,h,i]perylene	0.014	0.013	EPA 8270/SIM	4-29-09	5-5-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>73</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>71</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**PAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0428S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Acenaphthene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Fluorene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Phenanthrene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Anthracene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Fluoranthene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Pyrene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Chrysene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	4-28-09	4-30-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>94</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>93</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**PAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0429S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Acenaphthene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Fluorene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Phenanthrene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Anthracene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Fluoranthene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Pyrene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Chrysene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	4-29-09	4-30-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>100</i>	<i>41 - 107</i>				
<i>Pyrene-d10</i>	<i>93</i>	<i>40-120</i>				
<i>Terphenyl-d14</i>	<i>96</i>	<i>54 - 126</i>				

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0428S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0519	0.0607	0.0833	0.0833	62	73	45 - 94	16	24	
Acenaphthylene	0.0735	0.0791	0.0833	0.0833	88	95	51 - 104	7	25	
Acenaphthene	0.0641	0.0696	0.0833	0.0833	77	84	53 - 103	8	21	
Fluorene	0.0695	0.0727	0.0833	0.0833	83	87	57 - 107	5	19	
Phenanthrene	0.0730	0.0754	0.0833	0.0833	88	91	61 - 104	3	17	
Anthracene	0.0693	0.0741	0.0833	0.0833	83	89	58 - 102	7	14	
Fluoranthene	0.0834	0.0864	0.0833	0.0833	100	104	69 - 109	4	27	
Pyrene	0.0794	0.0858	0.0833	0.0833	95	103	71 - 114	8	27	
Benzo[a]anthracene	0.0783	0.0807	0.0833	0.0833	94	97	61 - 123	3	18	
Chrysene	0.0753	0.0774	0.0833	0.0833	90	93	66 - 124	3	19	
Benzo[b]fluoranthene	0.0812	0.0834	0.0833	0.0833	97	100	72 - 114	3	26	
Benzo[k]fluoranthene	0.0751	0.0798	0.0833	0.0833	90	96	70 - 115	6	17	
Benzo[a]pyrene	0.0690	0.0766	0.0833	0.0833	83	92	57 - 104	10	18	
Indeno(1,2,3-c,d)pyrene	0.0803	0.0829	0.0833	0.0833	96	100	63 - 121	3	20	
Dibenz[a,h]anthracene	0.0806	0.0829	0.0833	0.0833	97	100	62 - 125	3	15	
Benzo[g,h,i]perylene	0.0773	0.0800	0.0833	0.0833	93	96	64 - 117	3	21	
<i>Surrogate:</i>										
<i>2-Fluorobiphenyl</i>					<i>79</i>	<i>79</i>	<i>41 - 107</i>			
<i>Pyrene-d10</i>					<i>90</i>	<i>93</i>	<i>40-120</i>			
<i>Terphenyl-d14</i>					<i>89</i>	<i>93</i>	<i>54 - 126</i>			

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Laboratory Reference: 0904-127
 Project: 10654

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0429S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0638	0.0560	0.0833	0.0833	77	67	45 - 94	13	24	
Acenaphthylene	0.0782	0.0660	0.0833	0.0833	94	79	51 - 104	17	25	
Acenaphthene	0.0699	0.0640	0.0833	0.0833	84	77	53 - 103	9	21	
Fluorene	0.0746	0.0685	0.0833	0.0833	90	82	57 - 107	9	19	
Phenanthrene	0.0767	0.0724	0.0833	0.0833	92	87	61 - 104	6	17	
Anthracene	0.0723	0.0686	0.0833	0.0833	87	82	58 - 102	5	14	
Fluoranthene	0.0849	0.0816	0.0833	0.0833	102	98	69 - 109	4	27	
Pyrene	0.0814	0.0784	0.0833	0.0833	98	94	71 - 114	4	27	
Benzo[a]anthracene	0.0792	0.0763	0.0833	0.0833	95	92	61 - 123	4	18	
Chrysene	0.0778	0.0753	0.0833	0.0833	93	90	66 - 124	3	19	
Benzo[b]fluoranthene	0.0833	0.0780	0.0833	0.0833	100	94	72 - 114	7	26	
Benzo[k]fluoranthene	0.0828	0.0767	0.0833	0.0833	99	92	70 - 115	8	17	
Benzo[a]pyrene	0.0728	0.0686	0.0833	0.0833	87	82	57 - 104	6	18	
Indeno(1,2,3-c,d)pyrene	0.0815	0.0779	0.0833	0.0833	98	94	63 - 121	5	20	
Dibenz[a,h]anthracene	0.0807	0.0780	0.0833	0.0833	97	94	62 - 125	3	15	
Benzo[g,h,i]perylene	0.0785	0.0753	0.0833	0.0833	94	90	64 - 117	4	21	
<i>Surrogate:</i>										
<i>2-Fluorobiphenyl</i>					<i>87</i>	<i>80</i>	<i>41 - 107</i>			
<i>Pyrene-d10</i>					<i>91</i>	<i>91</i>	<i>40-120</i>			
<i>Terphenyl-d14</i>					<i>93</i>	<i>91</i>	<i>54 - 126</i>			

Date of Report: May 8, 2009
 Samples Submitted: April 16, 2009
 Lab Traveler: 0904-127
 Project: 10654

% MOISTURE

Date Analyzed: 4-17,22,23-09

Client ID	Lab ID	% Moisture
GMX-S36-2-4	04-127-01	31
GMX-S36-4-6	04-127-02	27
GMX-S36-6-8	04-127-03	42
GMX-S41-2-4	04-127-04	20
GMX-S41-4-6	04-127-05	70
GMX-S41-6-8	04-127-06	87
GMX-S40-2-4	04-127-07	15
GMX-S40-4-6	04-127-08	15
GMX-S40-6-8	04-127-09	66
GMX-S39-2-4	04-127-10	19
GMX-S46-2-4	04-127-11	20
GMX-S46-4-6	04-127-12	57
GMX-S47-2-4	04-127-13	33
GMX-S47-4-6	04-127-14	75
GMX-S47-6-8	04-127-15	82
GMX-S34-2-4	04-127-16	13
GMX-S34-4-6	04-127-17	14
GMX-S35-2-4	04-127-18	27
GMX-S35-4-6	04-127-19	11
GMX-S35-6-8	04-127-20	17
GMX-S39-4-6	04-127-21	67
GMX-S39-6-8	04-127-22	69
GMX-S38-2-4	04-127-23	16
GMX-S38-4-6	04-127-24	9

Date of Report: May 8, 2009
Samples Submitted: April 16, 2009
Lab Traveler: 0904-127
Project: 10654

% MOISTURE

Date Analyzed: 4-17&21-09

Client ID	Lab ID	% Moisture
GMX-S38-6-8	04-127-25	17
GMX-S37-2-4	04-127-26	17
GMX-S37-4-6	04-127-27	35
GMX-S37-6-8	04-127-28	18
GMX-S42-2-4	04-127-29	15
GMX-S42-4-6	04-127-30	51
GMX-S42-6-8	04-127-31	74
GMX-S45-2-4	04-127-32	60
GMX-S45-4-6	04-127-33	56
GMX-S45-6-8	04-127-34	83
GMX-S44-2-4	04-127-35	14
GMX-S44-4-6	04-127-36	61
GMX-S44-6-8	04-127-37	77
GMX-S43-2-4	04-127-38	25
GMX-S43-4-6	04-127-39	48
GMX-S43-6-8	04-127-40	49



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Analytical Resources, Incorporated
Analytical Chemists and Consultants

6 May 2009

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 10654
ARI Job Nos: OW73, OW75

Dear David:

Please find enclosed the original chain-of-custody (COC) records and the final results for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted forty soil samples in good condition on April 24, 2009. The samples were analyzed for TOC as requested.

These analyses proceeded without incident of note.

An electronic copy of these reports will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

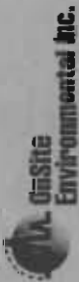
ANALYTICAL RESOURCES, INC.

Mark D. Harris
Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: files OW73, OW75

MDH/mdh



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Subcontract Laboratory: Analytical Resources, Inc.

Attention: Mark Harris

4611 S 134th PI, Ste. 100 Tukwila, WA 98168

Phone Number: (206) 695-6200

Date/Time: _____

Laboratory Reference #: **04-127**

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: **10654**

Project Name: _____

Turnaround Request:

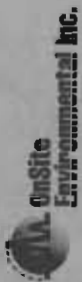
1 Day 2 Day 3 Day

Standard

Other: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis	Date	Time	Company	Comments/Special Instructions
	GMX-S36-2-4	4/15/09	9:35	S	1	TDC	4/24/09		DBE	
	GMX-S36-4-6		9:40				4/24/09	9:50	Speckly	
	GMX-S36-6-8		9:45				4/24/09	11:55	Speckly	
	GMX-S41-2-4		10:10				4/24/09	11:55	AKI	
	GMX-S41-4-6		10:15							
	GMX-S41-6-8		10:20							
	GMX-S40-2-4		10:40							
	GMX-S40-4-6		10:45							
	GMX-S40-6-8		10:50							
	GMX-S39-2-4		1:10							
Reinquished by:	<i>Mark Harris</i>									
Received by:	<i>Van</i>									
Reinquished by:	<i>Van</i>									
Received by:	<i>Art White</i>									
Reinquished by:										
Received by:										

EDDS



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: **04-127**

Subcontract Laboratory: Analytical Resources, Inc.

Project Manager: David Baumeister

Attention: Mark Harris

email: dbaumeister@onsite-env.com

4611 S 134th Pl, Ste. 100 Tukwila, WA 98168

Project Number: **10654**

Phone Number: (206) 695-6200

Project Name:

Date/Time:

Turnaround Request:

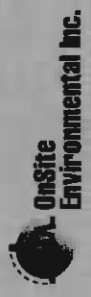
1 Day 2 Day 3 Day

Standard

Other:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis
	GMX-S46-2-4	4/16/09	830	S	1	TOL
	GMX-S46-4-6		835			
	GMX-S47-2-4		850			
	GMX-S47-4-6		855			
	GMX-S47-6-8		900			
	GMX-S34-2-4		915			
	GMX-S34-4-6		920			
	GMX-S35-2-4	4/15/09	915			
	GMX-S35-4-6		925			
	GMX-S35-6-8		930			
Relinquished by:	<i>[Signature]</i>	Company	OSI	Date	4/24/09	Time
Received by:	Van Van	Speedy			4/24/09	9:50
Relinquished by:		Speedy			4/24/09	11:55
Received by:	<i>[Signature]</i>	ART			4/24/09	11:55
Relinquished by:						
Received by:						

EDDS



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: **04-127**

Subcontract Laboratory: Analytical Resources, Inc.

Project Manager: David Baumeister

Attention: Mark Harris

email: dbaumeister@onsite-env.com

4611 S 134th Pl, Ste. 100 Tukwila, WA 98168

Project Number: **10654**

Phone Number: (206) 695-6200

Project Name:

Date/Time:

Turnaround Request:

1 Day 2 Day 3 Day

Standard

Other:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis
	GMX-S38-4-6	4/15/09	1115	S	1	TOC
	GMX-S39-6-8		1120			
	GMX-S38-2-4		1130			
	GMX-S38-4-6		1135			
	GMX-S38-6-8		1140			
	GMX-S37-2-4		1245			
	GMX-S37-4-6		1250			
	GMX-S37-6-8		1255			
	GMX-S42-2-4		1340			
	GMX-S42-4-6		1345			
Relinquished by:	<i>[Signature]</i>	Company	Date	Time	Comments/Special Instructions	
Received by:	Van	OSSE	4/24/09	9:45	EDDS	
Relinquished by:	Van	Speady	4/24/09	11:55		
Received by:	Just Wood	Speady	4/24/09	11:55		
Relinquished by:		ART				
Received by:						



Cooler Receipt Form

ARI Client: Onsite

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 0W73

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 3.6

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 101886

Cooler Accepted by: JW Date: 4/24/09 Time: 1155

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

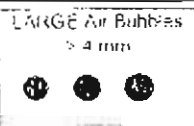
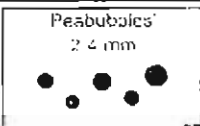
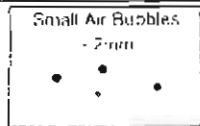
Samples Logged by: HJH Date: 4/24/09 Time: 1222

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"



Cooler Receipt Form

ARI Client: Onsite

Project Name: _____

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: OW75

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)

Were custody papers included with the cooler? (YES) NO

Were custody papers properly filled out (ink, signed, etc.) (YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 3.6

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 101886

Cooler Accepted by: JW Date: 4/24/09 Time: 11:55

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: Box

Was sufficient ice used (if appropriate)? NA (YES) NO

Were all bottles sealed in individual plastic bags? YES (NO)

Did all bottles arrive in good condition (unbroken)? (YES) NO

Were all bottle labels complete and legible? (YES) NO

Did the number of containers listed on COC match with the number of containers received? (YES) NO

Did all bottle labels and tags agree with custody papers? (YES) NO

Were all bottles used correct for the requested analyses? (YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES (NO)

Were all VOC vials free of air bubbles? (NA) YES NO

Was sufficient amount of sample sent in each bottle? (YES) NO

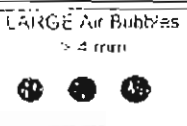
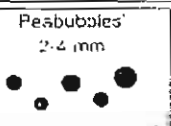
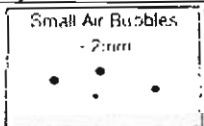
Samples Logged by: JH Date: 4/24/09 Time: 12:14

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:


By: _____ Date: _____



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

METHOD BLANK RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	04/27/09 05/01/09	Percent	< 0.01 U < 0.01 U
Total Organic Carbon	04/30/09 05/01/09 05/04/09	Percent	< 0.020 U < 0.020 U < 0.020 U

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized
Reported: 05/06/09

A handwritten signature in black ink, appearing to be 'J. [unclear]', written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S36-2-4
ARI ID: 09-9905 OW73A

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	82.50
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.020	4.86

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized:
Reported: 05/06/09

A handwritten signature in black ink, appearing to be 'M. J.', written over the 'Data Release Authorized:' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S36-4-6
ARI ID: 09-9906 OW73B

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	89.10
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.020	2.14

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized:
Reported: 05/06/09

A handwritten signature in black ink, appearing to be 'JG', is written over the 'Data Release Authorized' line.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09


Client ID: GMX-S36-6-8
ARI ID: 09-9907 OW73C

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	78.40
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.020	0.560

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09


Client ID: GMX-S41-2-4
ARI ID: 09-9908 OW73D

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	79.50
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.020	0.374

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S41-4-6
ARI ID: 09-9909 OW73E

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	83.10
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.020	1.12

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONAL
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S41-6-8
ARI ID: 09-9910 OW73F

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	58.50
Total Organic Carbon	05/01/09 050109#1	Plumb, 1981	Percent	0.020	13.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized
Reported: 05/06/09

A handwritten signature in black ink, appearing to be 'JL' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S40-2-4
ARI ID: 09-9911 OW73G

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	72.50
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.196	4.07

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: [Signature]
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/28/09
Date Received: 04/24/09

Client ID: GMX-S40-4-6
ARI ID: 09-9912 OW73H

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	76.60
Total Organic Carbon	05/01/09 050109#1	Plumb, 1981	Percent	0.020	1.08

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S40-6-8
ARI ID: 09-9913 OW73I

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	36.40
Total Organic Carbon	04/30/09 043009#1	Plumb,1981	Percent	0.194	25.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized
Reported: 05/06/09

A handwritten signature in black ink, appearing to be 'MK', is written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09


Client ID: GMX-S39-2-4
ARI ID: 09-9914 OW73J

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	85.20
Total Organic Carbon	05/01/09 050109#1	Plumb, 1981	Percent	0.020	2.08

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/16/09
Date Received: 04/24/09


Client ID: GMX-S46-2-4
ARI ID: 09-9915 OW73K

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	81.70
Total Organic Carbon	05/01/09 050109#1	Plumb, 1981	Percent	0.020	1.28

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/16/09
Date Received: 04/24/09

Client ID: GMX-S46-4-6
ARI ID: 09-9916 OW73L

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	47.00
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.202	21.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized:
Reported: 05/06/09

A handwritten signature in black ink, appearing to be 'J. [unclear]', written over the 'Data Release Authorized' line.

Project: NA
Event: 10654
Date Sampled: 04/16/09
Date Received: 04/24/09

Client ID: GMX-S47-2-4
ARI ID: 09-9917 OW73M

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/01/09 050109#1	EPA 160.3	Percent	0.01	22.70
Total Organic Carbon	05/04/09 050409#1	Plumb, 1981	Percent	0.200	48.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized:
Reported: 05/06/09

A handwritten signature or initials in dark ink, appearing to be a stylized 'A' or similar character.

Project: NA
Event: 10654
Date Sampled: 04/16/09
Date Received: 04/24/09

Client ID: GMX-S47-4-6
ARI ID: 09-9918 OW73N

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/01/09 050109#1	EPA 160.3	Percent	0.01	22.10
Total Organic Carbon	05/04/09 050409#1	Plumb, 1981	Percent	0.202	21.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized:
Reported: 05/06/09

A handwritten signature in black ink, appearing to be 'A. J.', written over the 'Data Release Authorized' line.

Project: NA
Event: 10654
Date Sampled: 04/16/09
Date Received: 04/24/09

Client ID: GMX-S47-6-8
ARI ID: 09-9919 OW730

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	18.50
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.198	35.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONAL
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/16/09
Date Received: 04/24/09

Client ID: GMX-S34-2-4
ARI ID: 09-9920 OW73P

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	83.10
Total Organic Carbon	05/01/09 050109#1	Plumb, 1981	Percent	0.020	1.94

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized
Reported: 05/06/09

A handwritten signature in black ink, appearing to be 'AK', is written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/16/09
Date Received: 04/24/09


Client ID: GMX-S34-4-6
ARI ID: 09-9921 OW73Q

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	87.40
Total Organic Carbon	05/01/09 050109#1	Plumb, 1981	Percent	0.020	1.61

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09


Client ID: GMX-S35-2-4
ARI ID: 09-9922 OW73R

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	76.80
Total Organic Carbon	05/01/09 050109#1	Plumb,1981	Percent	0.020	1.00

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09


Client ID: GMX-S35-4-6
ARI ID: 09-9923 OW73S

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	88.40
Total Organic Carbon	05/01/09 050109#1	Plumb, 1981	Percent	0.020	4.45

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09


Client ID: GMX-S35-6-8
ARI ID: 09-9924 OW73T

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/27/09 042709#1	EPA 160.3	Percent	0.01	77.80
Total Organic Carbon	05/01/09 050109#1	Plumb, 1981	Percent	0.020	1.38

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc




Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: OW73A Client ID: GMX-S36-2-4					
Total Solids	04/27/09	Percent	82.50	82.40 83.70	0.9%
Total Organic Carbon	04/30/09	Percent	4.86	4.71 5.45	7.8%

MS/MSD RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: OW73A Client ID: GMX-S36-2-4						
Total Organic Carbon	04/30/09	Percent	4.86	12.4	7.58	99.4%

LAB CONTROL RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc




Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	04/30/09	Percent	0.510	0.500	102.0%
	05/01/09		0.523	0.500	104.6%
	05/04/09		0.521	0.500	104.2%

STANDARD REFERENCE RESULTS-CONVENTIONALS
OW73-Onsite Environmental, Inc



Matrix: Soil
Data Release Authorized: 
Reported: 05/06/09

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon	04/30/09	Percent	3.35	3.35	100.0%
NIST #8704	05/01/09		3.61	3.35	107.3%
	05/04/09		3.57	3.35	106.6%

METHOD BLANK RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	04/24/09	Percent	< 0.01 U
Total Organic Carbon	04/29/09 04/30/09	Percent	< 0.020 U < 0.020 U

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized:
Reported: 05/01/09

A handwritten signature in black ink, appearing to be 'A. J.', written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S39-4-6
ARI ID: 09-9925 OW75A

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	72.00
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.020	6.31

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized:
Reported: 05/01/09

A handwritten signature in black ink, appearing to be 'J. V.' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09


Client ID: GMX-S39-6-8
ARI ID: 09-9926 OW75B

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	29.30
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.200	36.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S38-2-4
ARI ID: 09-9927 OW75C

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	86.50
Total Organic Carbon	04/29/09 042909#1	Plumb, 1981	Percent	0.020	2.90

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09


Client ID: GMX-S38-4-6
ARI ID: 09-9928 OW75D

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	86.40
Total Organic Carbon	04/29/09 042909#1	Plumb, 1981	Percent	0.020	1.64

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S38-6-8
ARI ID: 09-9929 OW75E

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	48.40
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.214	18.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S37-2-4
ARI ID: 09-9930 OW75F

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	75.20
Total Organic Carbon	04/29/09 042909#1	Plumb, 1981	Percent	0.020	1.70

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *OK*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S37-4-6
ARI ID: 09-9931 OW75G

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	82.40
Total Organic Carbon	04/29/09 042909#1	Plumb, 1981	Percent	0.020	1.92

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S37-6-8
ARI ID: 09-9932 OW75H

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	37.80
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.198	32.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S42-2-4
ARI ID: 09-9933 OW75I

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	65.30
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.192	9.43

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *OK*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S42-4-6
ARI ID: 09-9934 OW75J

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	27.80
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.200	88.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized
Reported: 05/01/09

A handwritten signature in black ink, appearing to be 'JL' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S42-6-8
ARI ID: 09-9935 OW75K

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	22.80
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.202	50.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONAL
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized
Reported: 05/01/09

A handwritten signature in black ink, appearing to be 'JL' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S45-2-4
ARI ID: 09-9936 OW75L

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	55.10
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.200	11.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S45-4-6
ARI ID: 09-9937 OW75M

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	77.30
Total Organic Carbon	04/29/09 042909#1	Plumb, 1981	Percent	0.020	0.654

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONAL
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S45-6-8
ARI ID: 09-9938 OW75N

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	14.70
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.198	39.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized
Reported: 05/01/09

A handwritten signature in black ink, appearing to be 'JW', is written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S44-2-4
ARI ID: 09-9939 OW750

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	84.20
Total Organic Carbon	04/29/09 042909#1	Plumb, 1981	Percent	0.020	1.49

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized
Reported: 05/01/09

A handwritten signature in black ink, appearing to be 'JK' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S44-4-6
ARI ID: 09-9940 OW75P

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	17.20
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.202	39.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized
Reported: 05/01/09

A handwritten signature in black ink, appearing to be 'OK' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09


Client ID: GMX-S44-6-8
ARI ID: 09-9941 OW75Q

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	13.50
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.198	62.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S43-2-4
ARI ID: 09-9942 OW75R

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	80.80
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.200	5.57

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized:
Reported: 05/01/09

A handwritten signature in black ink, appearing to be 'M. J.', written over the 'Data Release Authorized' text.

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S43-4-6
ARI ID: 09-9943 OW75S

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	65.10
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.190	8.18

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Client ID: GMX-S43-6-8
ARI ID: 09-9944 OW75T

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/24/09 042409#1	EPA 160.3	Percent	0.01	44.60
Total Organic Carbon	04/30/09 043009#1	Plumb, 1981	Percent	0.200	23.2

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.




Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: OW75A Client ID: GMX-S39-4-6					
Total Solids	04/24/09	Percent	72.00	7.50 7.40	2.1%
Total Organic Carbon	04/30/09	Percent	6.31	7.54 5.88	13.1%

MS/MSD RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.




Matrix: Soil
Data Release Authorized: 
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: 04/15/09
Date Received: 04/24/09

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: OW75A Client ID: GMX-S39-4-6						
Total Organic Carbon	04/30/09	Percent	6.31	11.4	6.68	76.2%

LAB CONTROL RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	04/29/09	Percent	0.506	0.500	101.2%
	04/30/09		0.510	0.500	102.0%

STANDARD REFERENCE RESULTS-CONVENTIONALS
OW75-OnSite Environmental, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/01/09

Project: NA
Event: 10654
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon	04/29/09	Percent	3.31	3.35	98.8%
NIST #8704	04/30/09		3.35	3.35	100.0%



OnSite Environmental Inc.

Project: (425) 865-3881 • Fax: (425) 865-4803

Company: Amec GMX
 Project Number: 106054
 Project Name: Custom Plywood
 Project Manager: Kathleen Goodman
 Sampled by: Chris Brink

Chain of Custody

Laboratory Number: **04-127**

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
(TPH analysis 5 working days)

(other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GXBTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	TOC	RP. 13 Metals	C PAHs (HOLD*)	% Moisture	
1	GMX-S360-2-4	4/15/09	935	S	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	GMX-S360-4-6		940		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	GMX-S360-6-8		945		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	GMX-S411-2-4		1010		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	GMX-S411-4-6		1015		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	GMX-S411-6-8		1020		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	GMX-S40-2-4		1040		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	GMX-S40-4-6		1045		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	GMX-S40-6-8		1050		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	GMX-S39-2-4		110		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Requested Analysis	Time	Date	Company	Signature	Reviewed by/Date
Comments/Special Instructions: * RUN PAHs ONLY ON SAMPLES W/ DX ABOVE 460 PPM ⊗ Added 408109 STA	1610	4/16/09	Amec GMX	<i>[Signature]</i>	
	1600	4/16/09	<i>[Signature]</i>	<i>[Signature]</i>	



OnSite Environmental Inc.

Phone: (425) 883-3881 • Fax: (425) 885-4603

Company:

AmeC Geomatrix

Project Number:

106054

Project Name:

Custom Plywood

Project Manager:

Kathleen Goodman

Sampled by:

NIY Bacher, Chris Brown

Chain of Custody

Laboratory Number: 04-127

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
(TPH analysis 5 working days)

(other)

Requested Analysis

Requested Analysis	Result
NWTPH-HCID	X
NWTPH-GX/BTEX	X
NWTPH-Dx	X
Volatiles by 8260B	X
Halogenated Volatiles by 8260B	X
Semivolatiles by 8270D	X
PAHs by 8270D / SIM	X
PCBs by 8082	X
Pesticides by 8081A	X
Herbicides by 8151A	X
Total RCRA Metals (8)	X
TCLP Metals	X
HEM by 1664	X
TOC	X
PP13 Metals	X
CPAHs (HOLD)*	X
% Moisture	X

Date Sampled

Time Sampled

Matrix

of Cont.

11	GMX-S46-2-4	4/16/09	830	S	2
12	GMX-S46-4-6		835		2
13	GMX-S47-2-4		850		2
14	GMX-S47-4-6		855		2
15	GMX-S47-6-8		900		2
16	GMX-S47-2-4		915		2
17	GMX-S34-4-6		920		2
18	GMX-S35-2-4	4/15/09	915		2
19	GMX-S35-4-6		925		2
20	GMX-S35-6-8		930		2

Company

AmeC GMX

Signature

Chris Brown

Relinquished by

Received by

Relinquished by

Received by

Relinquished by

Received by

Reviewed by/Date

Reviewed by/Date

Date

4/16/09 1610

Date

4/16/09 1610

Comments/Special Instructions:

⊗ Added 4/25/09 BC
SIA

Chromatograms with final report



OnSite Environmental Inc.

Phone: (425) 883-3881 • Fax: (425) 885-4603

Company:

Amec GMX

Project Number:

10654

Project Name:

Custom Plywood

Project Manager:

Kathleen Goodman

Sampled by:

Chris Brossak

Chain of Custody

Laboratory Number: 04-127

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days) (TPH analysis 5 working days)

(other)

Requested Analysis

NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 80B1A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	TOC	RP. 13 Metals	CPHATS (HOLD*)	% Moisture

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
21	GMX-S39-4-6	4/15/09	1115	S	2
22	GMX-S39-6-8	1120			2
23	GMX-S38-2-4	1130			2
24	GMX-S38-4-6	1135			2
25	GMX-S38-6-8	1140			2
26	GMX-S37-2-4	1245			2
27	GMX-S37-4-6	1250			2
28	GMX-S37-6-8	1255			2
29	GMX-S42-2-4	1340			2
30	GMX-S42-4-6	1345			2

Comments/Special Instructions:

(X) Added 4/23/09
→ TA

Date

4/16/09 1610
4/16/09 1620

Company

Amec GMX
[Signature]

Signature

[Signature]

Relinquished by

Received by

Relinquished by

Received by

Relinquished by

Received by

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report



OnSite Environmental Inc.

Phone: (425) 885-3881 • Fax: (425) 885-4603

Company:

Amec GMX

Project Number:

10654

Project Name:

Custom Plywood

Project Manager:

Kathleen Goodrich

Sampled by:

Chris Brown

Chain of Custody

Laboratory Number: 04-127

Turnaround Request (In working days)
(Check One)

- Same Day 1 Day
- 2 Day 3 Day
- Standard (7 working days)
(TPH analysis 5 working days)
- (other)

Requested Analysis

Requested Analysis	Results
NWTPH-HCID	XXXXXX
NWTPH-GxBTEX	XXXXXX
NWTPH-DX	XXXXXX
Volatiles by 8260B	
Halogenated Volatiles by 8260B	
Semivolatiles by 8270D	(X)
PAHs by 8270D / SIM	(X)
PCHs by 8082	
Pesticides by 8081A	
Herbicides by 8151A	
Total RCRA Metals (8)	
TCLP Metals	
HEM by 1664	
TOC	XXXXXX
P.P. 13 Metals	XXXXXX
C.PAHs (HOLD*)	XXXXXX
% Moisture	X

Comments/Special Instructions

Date	Time	Company
4/16/09	1610	Amec GMX
4/16/09	1610	GC

(X) Added 4/16/09 GC STA

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
31	GMX-S42-6-8	4/15/09	1350	S	2
32	GMX-S45-2-4		1430		2
33	GMX-S45-4-6		1435		2
34	GMX-S45-6-8		1440		2
35	GMX-S44-2-4		1510		2
36	GMX-S44-4-6		1515		2
37	GMX-S44-6-8		1520		2
38	GMX-S43-2-4		1540		2
39	GMX-S43-4-6		1545		2
40	GMX-S43-6-8		1550		2

Signature

Chris Brown

Relinquished by

Received by

Relinquished by

Received by

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Received by

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report

Memo
September 14, 2009
Page 2 of 3

general accordance with the definitions and use of qualifying flags outlined in EPA documents (EPA, 2004 and 2008).

Samples were analyzed for TPH as diesel, PAHs, total metals, and TOC by the methods identified in the introduction to this report and were evaluated for the following criteria.

1. Holding Times – Acceptable
2. Blanks – Acceptable
3. BS/BSD – Acceptable except as noted:

The laboratory did not report blank spike results if acceptable MS/MSD results were reported. Therefore, in SDG 0908-061 BS/BSD results were not reported for total metals, PAHs, and TPH analyses. The BS/BSD results reported for the remaining analyses were acceptable. In SDG 0907-230 BS/BSD results were not reported for metals and TPH analyses. The samples without associated BS/BSD data are evaluated based on the MS/MSD or laboratory duplicate results.

4. MS/MSD – Acceptable
5. Surrogates – Acceptable
6. Laboratory Duplicates – Acceptable except as noted:

SDG 0908-061: the selenium relative percent difference (RPD) was 23%, greater than the control limit of 20%. The sample and duplicate results were not five times greater than the reporting limit, and the difference between the primary and duplicate sample was less than the reporting limit. Therefore, sample results were not qualified.

SDG 0907-230: the selenium RPD was 23%, greater than the control limit of 20%. The sample and duplicate results were not five times greater than the reporting limit, and the difference between the primary and duplicate sample was less than the reporting limit. Therefore, sample results were not qualified. Additionally, the chromium RPD was 23%, greater than the control limit of 20%. The associated chromium results were qualified as estimated and flagged with a “J”.

One of four TPH-D laboratory duplicate RPDs was 230%. The laboratory does not track control limits for soil laboratory duplicates; therefore, sample results were not qualified.

7. Reporting Limits – Acceptable except as noted:

Due to the high percent moisture of the samples, some of the reporting limits did not meet the cleanup levels. Sample results were not qualified.

Memo
September 14, 2009
Page 3 of 3

OVERALL ASSESSMENT OF DATA

The OnSite SDGs 0907-230 and 0908-061 are 100% complete. The data usability is based on EPA's guidance documents and the QAPP. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

REFERENCES

EPA (U.S. Environmental Protection Agency), 1995, Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), Third Edition, September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995; Final Update III, December 1996; Final Update IIIA, April 1998.

EPA, 2004, U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-08-01, June.

EPA, 2008, U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review: EPA 540-R-04-004, October.

AMEC Geomatrix, 2008. Final Remedial Investigation/Feasibility Study Work Plan (RIFS WP) for the Former Custom Plywood Mill, Anacortes, Washington, September.

Sample ID	Laboratory Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
GMX-S48-2-4	07-230-01	chromium	7.1 J	mg/Kg	laboratory duplicate
GMX-S48-4-6	07-230-02	none			
GMX-S48-6-8	07-230-03	none			
GMX-S49-2-4	07-230-04	chromium	8.8 J	mg/Kg	laboratory duplicate
GMX-S49-4-6	07-230-05	none			
GMX-S49-6-8	07-230-06	none			
GMX-S52-2-4	07-230-07	chromium	46 J	mg/Kg	laboratory duplicate
GMX-S52-4-6	07-230-08	none			
GMX-S52-6-8	07-230-09	none			
GMX-S51-2-4	07-230-10	chromium	21 J	mg/Kg	laboratory duplicate
GMX-S51-4-6	07-230-11	none			
GMX-S51-6-8	07-230-12	none			
GMX-S50-2-4	07-230-13	chromium	8.7 J	mg/Kg	laboratory duplicate
GMX-S50-4-6	07-230-14	none			
GMX-S50-6-8	07-230-15	none			
GMX-S57-2-4	07-230-16	chromium	38 J	mg/Kg	laboratory duplicate
GMX-S57-4-6	07-230-17	none			
GMX-S57-6-8	07-230-18	none			
GMX-S57-8.5	07-230-19	none			
GMX-S58-3	07-230-20	none			
GMX-S58-2-4	07-230-21	chromium	31 J	mg/Kg	laboratory duplicate
GMX-S58-4-6	07-230-22	none			
GMX-S58-6-8	07-230-23	none			
GMX-S55-2-4	07-230-24	chromium	18 J	mg/Kg	laboratory duplicate
GMX-S55-4-6	07-230-25	none			
GMX-S55-6-8	07-230-26	none			
GMX-S54-2-4	07-230-27	chromium	28 J	mg/Kg	laboratory duplicate
GMX-S54-4-6	07-230-28	none			
GMX-S54-6-8	07-230-29	none			
GMX-S53-2-4	07-230-30	chromium	30 J	mg/Kg	laboratory duplicate
GMX-S53-4-6	07-230-31	none			
GMX-S53-6-8	07-230-32	none			
GMX-S56-2-4	07-230-33	chromium	29 J	mg/Kg	laboratory duplicate
GMX-S56-6-8	07-230-34	none			
GMX-S56-6-8	07-230-35	none			
GMX-MW-09-2-4	08-061-01	none			
GMX-MW-09-4-6	08-061-02	none			
GMX-MW-09-6-8	08-061-03	none			
GMX-MW-08-2-4	08-061-04	none			
GMX-MW-08-4-6	08-061-05	none			
GMX-MW-08-6-8	08-061-06	none			
GMX-MW-07-2-4	08-061-07	none			
GMX-MW-07-4-6	08-061-08	none			
GMX-MW-07-6-8	08-061-09	none			



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 9, 2009

Kathleen Goodman
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654
Laboratory Reference No. 0907-230

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on July 31, 2009.

Please note that pages 23, 24, 26-33, 37, and 38 are revised, and replace the pages in the original report dated August 19, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Baumeister', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

Case Narrative

Samples were collected on July 30, 2009, and received by the laboratory on July 31, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

A 4-ounce jar was not provided for dry weight analysis for samples GMX-S57-8.5 and GMX-S58-3. As per client's request samples GMX-S57-6-8 and GMX-S58-2-4 were used for dry weight analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Total Metals EPA 6010B/6020/7471A Analysis

The duplicate RPD for Chromium is outside control limits due to sample inhomogeneity. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Gx

Date Extracted: 8-5-09
 Date Analyzed: 8-5-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S57-8.5	GMX-S58-3
Lab ID:	07-230-19	07-230-20

	Result	Flags	PQL	Result	Flags	PQL
TPH-Gas	ND		6.6	ND		6.5
Surrogate Recovery: Fluorobenzene	87%			92%		

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-5-09
Date Analyzed: 8-5-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0805S1

	Result	Flags	PQL
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	84%		

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

**NWTPH-Gx
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-5-09
Date Analyzed: 8-5&6-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID:	07-236-14 Original	07-236-14 Duplicate	RPD	Flags
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	89%	93%		

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 7-31-09
 Date Analyzed: 8-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S48-2-4	GMX-S48-4-6	GMX-S48-6-8
Lab ID:	07-230-01	07-230-02	07-230-03
Diesel Range:	420	550	ND
PQL:	170	120	96
Identification:	Diesel Range Organics	Diesel Range Organics	---
Lube Oil Range:	2600	1400	210
PQL:	330	240	190
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	97%	124%	115%
Flags:	Y,N	Y	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 7-31-09
 Date Analyzed: 8-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S49-2-4	GMX-S49-4-6	GMX-S49-6-8
Lab ID:	07-230-04	07-230-05	07-230-06
Diesel Range:	ND	640	ND
PQL:	660	160	180
Identification:	---	Diesel Range Organics	---
Lube Oil Range:	6600	2600	ND
PQL:	190	310	360
Identification:	Lube Oil	Lube Oil	---
Surrogate Recovery			
o-Terphenyl:	109%	110%	122%
Flags:	Y,U1	Y,N	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 7-31-09
 Date Analyzed: 7-31&8-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S52-2-4	GMX-S52-4-6	GMX-S52-6-8
Lab ID:	07-230-07	07-230-08	07-230-09
Diesel Range:	ND	ND	ND
PQL:	540	240	46
Identification:	---	---	---
Lube Oil Range:	5700	1900	97
PQL:	230	110	93
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	109%	117%	135%
Flags:	Y,U1	Y,U1	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 7-31-09
 Date Analyzed: 7-31&8-4-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S51-2-4	GMX-S51-4-6	GMX-S51-6-8
Lab ID:	07-230-10	07-230-11	07-230-12
Diesel Range:	ND	ND	ND
PQL:	32	30	32
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	63	60	63
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	112%	146%	85%
Flags:	Y	Y	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 7-31-09
 Date Analyzed: 7-31&8-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S50-2-4	GMX-S50-4-6	GMX-S50-6-8
Lab ID:	07-230-13	07-230-14	07-230-15
Diesel Range:	ND	ND	ND
PQL:	110	71	34
Identification:	---	---	---
Lube Oil Range:	270	ND	ND
PQL:	230	140	68
Identification:	Lube Oil	---	---
Surrogate Recovery			
o-Terphenyl:	89%	80%	107%
Flags:	Y	Y	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 7-31-09
 Date Analyzed: 8-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S57-2-4	GMX-S57-4-6	GMX-S57-6-8
Lab ID:	07-230-16	07-230-17	07-230-18
Diesel Range:	99	ND	300
PQL:	27	28	30
Identification:	Diesel Range Organics	---	Diesel Range Organics
Lube Oil Range:	1300	270	470
PQL:	54	55	60
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	95%	92%	125%
Flags:	Y	Y	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 7-31&8-3-09
 Date Analyzed: 7-31&8-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S58-2-4	GMX-S58-4-6	GMX-S58-6-8
Lab ID:	07-230-21	07-230-22	07-230-23
Diesel Range:	ND	ND	ND
PQL:	30	30	29
Identification:	---	---	---
Lube Oil Range:	75	ND	ND
PQL:	60	60	59
Identification:	Lube Oil	---	---
Surrogate Recovery			
o-Terphenyl:	108%	99%	106%
Flags:	Y	Y	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
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 Project: 10654

NWTPH-Dx

Date Extracted: 8-3-09
 Date Analyzed: 8-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S55-2-4	GMX-S55-4-6	GMX-S55-6-8
Lab ID:	07-230-24	07-230-25	07-230-26
Diesel Range:	ND	ND	44
PQL:	32	31	39
Identification:	---	---	Diesel Range Organics
Lube Oil Range:	100	ND	ND
PQL:	64	62	78
Identification:	Lube Oil	---	---
Surrogate Recovery			
o-Terphenyl:	108%	113%	104%
Flags:	Y	Y	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 8-3-09
 Date Analyzed: 8-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S54-2-4	GMX-S54-4-6	GMX-S54-6-8
Lab ID:	07-230-27	07-230-28	07-230-29
Diesel Range:	ND	ND	ND
PQL:	29	33	31
Identification:	---	---	---
Lube Oil Range:	83	ND	ND
PQL:	58	65	63
Identification:	Lube Oil	---	---
Surrogate Recovery			
o-Terphenyl:	112%	119%	99%
Flags:	Y	Y	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 8-3-09
 Date Analyzed: 8-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S53-2-4	GMX-S53-4-6	GMX-S53-6-8
Lab ID:	07-230-30	07-230-31	07-230-32
Diesel Range:	ND	ND	ND
PQL:	34	31	31
Identification:	---	---	---
Lube Oil Range:	120	ND	ND
PQL:	68	62	62
Identification:	Lube Oil	---	---
Surrogate Recovery			
o-Terphenyl:	105%	119%	104%
Flags:	Y	Y	Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

NWTPH-Dx

Date Extracted: 8-3-09
 Date Analyzed: 8-3&4-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-S56-2-4	GMX-S56-4-6	GMX-S56-6-8
Lab ID:	07-230-33	07-230-34	07-230-35
Diesel Range:	82	ND	ND
PQL:	28	170	36
Identification:	Diesel Range Organics	---	---
Lube Oil Range:	1200	4700	130
PQL:	57	280	72
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	110%	98%	97%
Flags:	Y	Y,U1	Y

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 7-31-09
Date Analyzed: 8-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0731S2

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 121%

Flags: Y

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-3-09
Date Analyzed: 8-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0803S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 94%

Flags: Y

Date of Report: August 19, 2009
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Laboratory Reference: 0907-230
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-31-09
Date Analyzed: 8-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-230-17 07-230-17 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 92% 85%

Flags: Y Y

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
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NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 7-31-09
Date Analyzed: 8-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-230-18 07-230-18 DUP

Diesel Range: **250** **53.5**
PQL: 25 25

RPD: 130

Surrogate Recovery
o-Terphenyl: 125% 93%

Flags: Y Y

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
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NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-3-09
Date Analyzed: 8-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-230-24 07-230-24 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 108% 125%

Flags: Y Y

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-3-09
Date Analyzed: 8-4-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-230-34 07-230-34 DUP

Diesel Range: **ND** **ND**
PQL: 150 130

RPD: N/A

Surrogate Recovery
o-Terphenyl: 98% 77%

Flags: Y Y

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6,7&14-09
 Date Analyzed: 8-6,7,13&18-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-01
 Client ID: **GMX-S48-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	33
Arsenic	6020	ND	6.7
Beryllium	6020	ND	6.7
Cadmium	6020	ND	1.7
Chromium	6010B	7.1	3.3
Copper	6010B	14	6.7
Lead	6020	32	17
Mercury	7471A	ND	0.067
Nickel	6020	8.0	6.7
Selenium	6020	ND	3.3
Silver	6020	ND	0.83
Thallium	6020	ND	0.67
Zinc	6010B	41	17

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6,7&14-09
 Date Analyzed: 8-6,7,13&18-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-04
 Client ID: **GMX-S49-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	19
Arsenic	6020	5.4	4.6
Beryllium	6020	ND	1.9
Cadmium	6020	ND	1.9
Chromium	6010B	8.8	1.9
Copper	6010B	55	3.7
Lead	6020	98	19
Mercury	7471A	0.12	0.037
Nickel	6020	8.5	9.3
Selenium	6020	ND	1.9
Silver	6020	ND	0.46
Thallium	6020	ND	0.37
Zinc	6010B	150	9.3

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6,7&14-09
 Date Analyzed: 8-6,7,13&18-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-07
 Client ID: **GMX-S52-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	23
Arsenic	6010B	84	23
Beryllium	6010B	ND	2.3
Cadmium	6010B	2.4	2.3
Chromium	6010B	46	2.3
Copper	6010B	190	4.5
Lead	6010B	300	23
Mercury	7471A	0.18	0.045
Nickel	6010B	52	11
Selenium	6020	ND	2.3
Silver	6020	ND	0.57
Thallium	6020	ND	0.45
Zinc	6010B	500	11

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6&7-09
 Date Analyzed: 8-6,7&13-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-10
 Client ID: **GMX-S51-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.3
Arsenic	6010B	ND	6.3
Beryllium	6010B	ND	0.63
Cadmium	6010B	ND	0.63
Chromium	6010B	21	0.63
Copper	6010B	14	1.3
Lead	6010B	ND	6.3
Mercury	7471A	ND	0.013
Nickel	6010B	30	3.2
Selenium	6020	ND	0.63
Silver	6020	ND	0.16
Thallium	6020	ND	0.13
Zinc	6010B	33	3.2

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6,7&14-09
 Date Analyzed: 8-6,7,13&18-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-13
 Client ID: **GMX-S50-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	23
Arsenic	6020	ND	5.7
Beryllium	6020	ND	2.3
Cadmium	6020	ND	2.3
Chromium	6010B	8.7	2.3
Copper	6010B	12	4.5
Lead	6020	ND	23
Mercury	7471A	ND	0.045
Nickel	6010B	ND	11
Selenium	6020	ND	2.3
Silver	6020	ND	0.57
Thallium	6020	ND	0.45
Zinc	6010B	53	11

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6,7&14-09
 Date Analyzed: 8-6,7,13&18-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-16
 Client ID: **GMX-S57-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.4
Arsenic	6010B	ND	5.4
Beryllium	6010B	ND	0.54
Cadmium	6010B	ND	0.54
Chromium	6010B	38	0.54
Copper	6010B	35	1.1
Lead	6010B	13	5.4
Mercury	7471A	0.027	0.011
Nickel	6010B	55	2.7
Selenium	6020	ND	0.54
Silver	6020	ND	0.13
Thallium	6020	ND	0.11
Zinc	6010B	68	2.7

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6,7&14-09
 Date Analyzed: 8-6,7,13&18-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-21
 Client ID: **GMX-S58-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.0
Arsenic	6010B	ND	6.0
Beryllium	6010B	ND	0.60
Cadmium	6010B	ND	0.60
Chromium	6010B	31	0.60
Copper	6010B	31	1.2
Lead	6010B	31	6.0
Mercury	7471A	0.050	0.012
Nickel	6010B	37	3.0
Selenium	6020	ND	0.60
Silver	6020	0.14	0.15
Thallium	6020	ND	0.12
Zinc	6010B	100	3.0

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6,7&14-09
 Date Analyzed: 8-6,7,13&18-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-24
 Client ID: **GMX-S55-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.4
Arsenic	6010B	7.9	6.4
Beryllium	6010B	ND	0.64
Cadmium	6010B	ND	0.64
Chromium	6010B	18	0.64
Copper	6010B	210	1.3
Lead	6010B	11	6.4
Mercury	7471A	0.082	0.013
Nickel	6010B	32	3.2
Selenium	6020	ND	0.64
Silver	6020	ND	0.16
Thallium	6020	ND	0.13
Zinc	6010B	56	3.2

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6&7-09
 Date Analyzed: 8-6,7&13-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-27
 Client ID: **GMX-S54-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.8
Arsenic	6010B	9.2	5.8
Beryllium	6010B	ND	0.58
Cadmium	6010B	ND	0.58
Chromium	6010B	28	0.58
Copper	6010B	44	1.2
Lead	6010B	61	5.8
Mercury	7471A	0.037	0.012
Nickel	6010B	32	2.9
Selenium	6020	ND	0.58
Silver	6020	ND	0.15
Thallium	6020	ND	0.12
Zinc	6010B	66	2.9

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
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 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6&7-09
 Date Analyzed: 8-6,7&13-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-30
 Client ID: **GMX-S53-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	6.8
Arsenic	6010B	11	6.8
Beryllium	6010B	ND	0.68
Cadmium	6010B	ND	0.68
Chromium	6010B	30	0.68
Copper	6010B	83	1.4
Lead	6010B	12	6.8
Mercury	7471A	0.037	0.014
Nickel	6010B	52	3.4
Selenium	6020	ND	0.68
Silver	6020	0.14	0.17
Thallium	6020	ND	0.14
Zinc	6010B	57	3.4

Date of Report: August 19, 2009
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 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-6&7-09
 Date Analyzed: 8-6,7&13-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-33
 Client ID: **GMX-S56-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.7
Arsenic	6010B	ND	5.7
Beryllium	6010B	ND	0.57
Cadmium	6010B	ND	0.57
Chromium	6010B	29	0.57
Copper	6010B	33	1.1
Lead	6010B	35	5.7
Mercury	7471A	0.049	0.011
Nickel	6010B	49	2.8
Selenium	6020	ND	0.57
Silver	6020	ND	0.14
Thallium	6020	ND	0.11
Zinc	6010B	72	2.8

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-6&7-09
 Date Analyzed: 8-6,7&13-09

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0806S2&MB0807S1

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.0
Arsenic	6010B	ND	5.0
Beryllium	6010B	ND	0.20
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Copper	6010B	ND	1.0
Lead	6010B	ND	5.0
Nickel	6010B	ND	2.5
Selenium	6020	ND	0.50
Silver	6020	ND	0.13
Thallium	6020	ND	0.10
Zinc	6010B	ND	2.5

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

**TOTAL METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-14-09
Date Analyzed: 8-18-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0814S1

Analyte	Method	Result	PQL
Arsenic	6020	ND	5.0
Selenium	6020	ND	0.50
Thallium	6020	ND	0.10

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

**TOTAL METALS
EPA 7471A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-7-09
Date Analyzed: 8-7-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0807S2

Analyte	Method	Result	PQL
Mercury	7471A	ND	0.010

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-6&7-09
 Date Analyzed: 8-6,7&13-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	5.0	
Beryllium	ND	ND	NA	0.20	
Cadmium	ND	ND	NA	0.50	
Chromium	16.3	12.9	23	0.50	K
Copper	11.2	9.15	20	1.0	
Lead	ND	ND	NA	5.0	
Nickel	23.5	28.6	20	2.5	
Selenium	ND	ND	NA	0.50	
Silver	ND	ND	NA	0.13	
Thallium	ND	ND	NA	0.10	
Zinc	26.2	26.0	1	2.5	

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

**TOTAL METALS
EPA 6020
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-14-09

Date Analyzed: 8-18-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-061-07

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	12.6	14.0	11	5.0	
Selenium	0.639	0.505	23	0	C
Thallium	0.203	ND	NA	0.0	

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

**TOTAL METALS
EPA 7471A
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-7-09

Date Analyzed: 8-7-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-044-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	0.0282	0.0254	10	0.010	

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-6&7-09
 Date Analyzed: 8-6,7&13-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 07-230-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	87.5	87	89.6	90	3	
Arsenic	100	99.7	100	98.3	98	1	
Beryllium	50	51.4	103	51.2	102	1	
Cadmium	50	48.6	97	49.4	99	2	
Chromium	100	128	111	115	99	10	
Copper	50	61.8	101	61.7	101	0	
Lead	250	242	97	247	99	2	
Nickel	100	111	88	122	98	9	
Selenium	100	106	106	106	106	0	
Silver	25	25.5	102	26.5	106	4	
Thallium	50	47.7	95	48.2	96	1	
Zinc	100	126	100	126	100	0	

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**TOTAL METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-14-09

Date Analyzed: 8-18-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-061-07

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	98.4	86	100	87	2	
Selenium	100	92.1	91	94.2	94	2	
Thallium	50	42.2	84	41.0	82	3	

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

**TOTAL METALS
EPA 7471A
MS/MSD QUALITY CONTROL**

Date Extracted: 8-7-09

Date Analyzed: 8-7-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-044-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.50	0.518	104	0.476	95	8	

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S48-2-4					
Laboratory ID:	07-230-01					
Benzo[a]anthracene	ND	0.044	EPA 8270/SIM	8-10-09	8-11-09	
Chrysene	0.050	0.044	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[b]fluoranthene	0.054	0.044	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[k]fluoranthene	ND	0.044	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[a]pyrene	0.052	0.044	EPA 8270/SIM	8-10-09	8-11-09	
Indeno(1,2,3-c,d)pyrene	ND	0.044	EPA 8270/SIM	8-10-09	8-11-09	
Dibenz[a,h]anthracene	ND	0.044	EPA 8270/SIM	8-10-09	8-11-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>66</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>93</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>78</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S48-4-6					
Laboratory ID:	07-230-02					
Benzo[a]anthracene	ND	0.032	EPA 8270/SIM	8-10-09	8-11-09	
Chrysene	0.048	0.032	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[b]fluoranthene	0.041	0.032	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[k]fluoranthene	0.055	0.032	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[a]pyrene	0.037	0.032	EPA 8270/SIM	8-10-09	8-11-09	
Indeno(1,2,3-c,d)pyrene	ND	0.032	EPA 8270/SIM	8-10-09	8-11-09	
Dibenz[a,h]anthracene	ND	0.032	EPA 8270/SIM	8-10-09	8-11-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>89</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>68</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S49-2-4					
Laboratory ID:	07-230-04					
Benzo[a]anthracene	0.098	0.025	EPA 8270/SIM	8-10-09	8-11-09	
Chrysene	0.15	0.025	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[b]fluoranthene	0.18	0.025	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[k]fluoranthene	0.099	0.025	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[a]pyrene	0.17	0.025	EPA 8270/SIM	8-10-09	8-11-09	
Indeno(1,2,3-c,d)pyrene	0.056	0.025	EPA 8270/SIM	8-10-09	8-11-09	
Dibenz[a,h]anthracene	ND	0.025	EPA 8270/SIM	8-10-09	8-11-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>66</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>76</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>62</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S49-4-6					
Laboratory ID:	07-230-05					
Benzo[a]anthracene	0.31	0.042	EPA 8270/SIM	8-10-09	8-12-09	
Chrysene	0.43	0.042	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[b]fluoranthene	0.40	0.042	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[k]fluoranthene	0.13	0.042	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[a]pyrene	0.38	0.042	EPA 8270/SIM	8-10-09	8-12-09	
Indeno(1,2,3-c,d)pyrene	0.19	0.042	EPA 8270/SIM	8-10-09	8-12-09	
Dibenz[a,h]anthracene	0.061	0.042	EPA 8270/SIM	8-10-09	8-12-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>54</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>56</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>67</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S52-2-4					
Laboratory ID:	07-230-07					
Benzo[a]anthracene	0.47	0.030	EPA 8270/SIM	8-10-09	8-12-09	
Chrysene	1.0	0.030	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[b]fluoranthene	0.73	0.030	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[k]fluoranthene	0.24	0.030	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[a]pyrene	0.58	0.030	EPA 8270/SIM	8-10-09	8-12-09	
Indeno(1,2,3-c,d)pyrene	0.27	0.030	EPA 8270/SIM	8-10-09	8-12-09	
Dibenz[a,h]anthracene	0.065	0.030	EPA 8270/SIM	8-10-09	8-12-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>49</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>63</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S52-4-6					
Laboratory ID:	07-230-08					
Benzo[a]anthracene	0.19	0.015	EPA 8270/SIM	8-10-09	8-12-09	
Chrysene	0.25	0.015	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[b]fluoranthene	0.21	0.015	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[k]fluoranthene	0.071	0.015	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[a]pyrene	0.20	0.015	EPA 8270/SIM	8-10-09	8-12-09	
Indeno(1,2,3-c,d)pyrene	0.095	0.015	EPA 8270/SIM	8-10-09	8-12-09	
Dibenz[a,h]anthracene	0.032	0.015	EPA 8270/SIM	8-10-09	8-12-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>66</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>73</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>106</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S57-2-4					
Laboratory ID:	07-230-16					
Benzo[a]anthracene	0.026	0.0072	EPA 8270/SIM	8-10-09	8-12-09	
Chrysene	0.070	0.0072	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[b]fluoranthene	0.040	0.0072	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[k]fluoranthene	0.018	0.0072	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[a]pyrene	0.030	0.0072	EPA 8270/SIM	8-10-09	8-12-09	
Indeno(1,2,3-c,d)pyrene	0.010	0.0072	EPA 8270/SIM	8-10-09	8-12-09	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270/SIM	8-10-09	8-12-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>79</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>74</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>90</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S57-6-8					
Laboratory ID:	07-230-18					
Benzo[a]anthracene	0.089	0.0080	EPA 8270/SIM	8-10-09	8-12-09	
Chrysene	0.099	0.0080	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[b]fluoranthene	0.076	0.0080	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[k]fluoranthene	0.019	0.0080	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[a]pyrene	0.057	0.0080	EPA 8270/SIM	8-10-09	8-12-09	
Indeno(1,2,3-c,d)pyrene	0.023	0.0080	EPA 8270/SIM	8-10-09	8-12-09	
Dibenz[a,h]anthracene	0.0089	0.0080	EPA 8270/SIM	8-10-09	8-12-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>60</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>102</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S56-2-4					
Laboratory ID:	07-230-33					
Benzo[a]anthracene	0.077	0.0076	EPA 8270/SIM	8-10-09	8-12-09	
Chrysene	0.11	0.0076	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[b]fluoranthene	0.11	0.0076	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[k]fluoranthene	0.041	0.0076	EPA 8270/SIM	8-10-09	8-12-09	
Benzo[a]pyrene	0.078	0.0076	EPA 8270/SIM	8-10-09	8-12-09	
Indeno(1,2,3-c,d)pyrene	0.043	0.0076	EPA 8270/SIM	8-10-09	8-12-09	
Dibenz[a,h]anthracene	0.017	0.0076	EPA 8270/SIM	8-10-09	8-12-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>71</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

cPAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-S56-4-6					
Laboratory ID:	07-230-34					
Benzo[a]anthracene	0.15	0.0075	EPA 8270/SIM	8-10-09	8-11-09	
Chrysene	0.24	0.0075	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[b]fluoranthene	0.26	0.0075	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[k]fluoranthene	0.082	0.0075	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[a]pyrene	0.22	0.0075	EPA 8270/SIM	8-10-09	8-11-09	
Indeno(1,2,3-c,d)pyrene	0.096	0.0075	EPA 8270/SIM	8-10-09	8-11-09	
Dibenz[a,h]anthracene	0.035	0.0075	EPA 8270/SIM	8-10-09	8-11-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>85</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>90</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>87</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**cPAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0810S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	8-10-09	8-11-09	
Chrysene	ND	0.0067	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	8-10-09	8-11-09	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	8-10-09	8-11-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	8-10-09	8-11-09	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	8-10-09	8-11-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>99</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>93</i>	<i>50 - 118</i>				

Date of Report: August 19, 2009
 Samples Submitted: July 31, 2009
 Laboratory Reference: 0907-230
 Project: 10654

**cPAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0810S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0676	0.0651	0.0833	0.0833	81	78	31 - 102	4	30	
Acenaphthylene	0.0827	0.0743	0.0833	0.0833	99	89	48 - 104	11	26	
Acenaphthene	0.0693	0.0666	0.0833	0.0833	83	80	46 - 105	4	26	
Fluorene	0.0679	0.0654	0.0833	0.0833	82	79	52 - 107	4	25	
Phenanthrene	0.0647	0.0640	0.0833	0.0833	78	77	58 - 104	1	21	
Anthracene	0.0726	0.0717	0.0833	0.0833	87	86	56 - 103	1	21	
Fluoranthene	0.0855	0.0840	0.0833	0.0833	103	101	65 - 111	2	20	
Pyrene	0.0838	0.0842	0.0833	0.0833	101	101	65 - 115	0	20	
Benzo[a]anthracene	0.0723	0.0716	0.0833	0.0833	87	86	55 - 111	1	19	
Chrysene	0.0683	0.0673	0.0833	0.0833	82	81	58 - 121	1	19	
Benzo[b]fluoranthene	0.0895	0.0880	0.0833	0.0833	107	106	57 - 120	2	20	
Benzo[k]fluoranthene	0.0851	0.0870	0.0833	0.0833	102	104	52 - 123	2	21	
Benzo[a]pyrene	0.0739	0.0750	0.0833	0.0833	89	90	49 - 106	1	22	
Indeno(1,2,3-c,d)pyrene	0.0875	0.0869	0.0833	0.0833	105	104	56 - 125	1	22	
Dibenz[a,h]anthracene	0.0859	0.0852	0.0833	0.0833	103	102	55 - 129	1	24	
Benzo[g,h,i]perylene	0.0828	0.0826	0.0833	0.0833	99	99	55 - 122	0	23	
<i>Surrogate:</i>										
<i>2-Fluorobiphenyl</i>					<i>82</i>	<i>78</i>	<i>39 - 103</i>			
<i>Pyrene-d10</i>					<i>96</i>	<i>95</i>	<i>39 - 115</i>			
<i>Terphenyl-d14</i>					<i>92</i>	<i>90</i>	<i>50 - 118</i>			

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Laboratory Reference: 0907-230
Project: 10654

% MOISTURE

Date Analyzed: 7-31-09

Client ID	Lab ID	% Moisture
GMX-S48-2-4	07-230-01	85
GMX-S48-4-6	07-230-02	79
GMX-S48-6-8	07-230-03	74
GMX-S49-2-4	07-230-04	73
GMX-S49-4-6	07-230-05	84
GMX-S49-6-8	07-230-06	86
GMX-S52-2-4	07-230-07	78
GMX-S52-4-6	07-230-08	56
GMX-S52-6-8	07-230-09	46
GMX-S51-2-4	07-230-10	21
GMX-S51-4-6	07-230-11	16
GMX-S51-6-8	07-230-12	21
GMX-S50-2-4	07-230-13	78
GMX-S50-4-6	07-230-14	65
GMX-S50-6-8	07-230-15	27
GMX-S57-2-4	07-230-16	7
GMX-S57-4-6	07-230-17	9
GMX-S57-6-8	07-230-18	17
GMX-S58-2-4	07-230-21	16
GMX-S58-4-6	07-230-22	17

Date of Report: August 19, 2009
Samples Submitted: July 31, 2009
Lab Traveler: 0907-230
Project: 10654

% MOISTURE

Date Analyzed: 8-4-09

Client ID	Lab ID	% Moisture
GMX-S58-6-8	07-230-23	15
GMX-S55-2-4	07-230-24	22
GMX-S55-4-6	07-230-25	19
GMX-S55-6-8	07-230-26	36
GMX-S54-2-4	07-230-27	14
GMX-S54-4-6	07-230-28	23
GMX-S54-6-8	07-230-29	20
GMX-S53-2-4	07-230-30	27
GMX-S53-4-6	07-230-31	19
GMX-S53-6-8	07-230-32	19
GMX-S56-2-4	07-230-33	12
GMX-S56-4-6	07-230-34	11
GMX-S56-6-8	07-230-35	31



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Phone: (425) 863-3881 • Fax: (425) 865-4603

Laboratory Number: 07-230

Company: **AmeC Geometrix**
 Project Number: **10654**
 Project Name: **Custom Plywood**
 Project Manager: **Kathleen Goodman**
 Sampled by: **Chris Brown**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Day 3 Day
 Standard (7 working days) (TPH analysis 5 working days)
 (other)

Requested Analysis	Requested Analysis
Metals	
Priority Pollutant (13)	
TCRP Metals	
HEM by 1664	
Total FCRA Metals (8)	
Herbicides by 8151A	
Pesticides by 8081A	
PCBs by 8082	
PAHs by 8270D / SIM	
Semivolatiles by 8270D	
Halogenated Volatiles by 8260B	
Volatiles by 8260B	
NWTPH-DX	
NWTPH-GX/BTEX	
NWTPH-HCID	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
1	GMX-548-2-4	7/30/09	855	S	2
2	GMX-548-4-6		900		2
3	GMX-548-6-8		905		2
4	GMX-549-2-4		935		2
5	GMX-549-4-6		940		2
6	GMX-549-6-8		945		2
7	GMX-552-2-4		1005		2
8	GMX-552-4-6		1010		2
9	GMX-552-6-8		1015		2
10	GMX-557-2-4		1035		2

Date	Time	Company
7/31/09	1015	AmeC GMX
7/31/09	1015	OSI

Relinquished by	<i>Chris Brown</i>
Received by	<i>OSI</i>
Relinquished by	
Received by	
Relinquished by	
Received by	
Reviewed by/Date	

Comments/Special Instructions:

Only run CPATHS if TPH-DX exceeds 460 mg/kg
 Added 8/6/09. DB

Chromatograms with final report



OnSite Environmental Inc.

Phone: (425) 883-9881 • Fax: (425) 885-4603

Chain of Custody

Page 2 of 4

Laboratory Number: **07-230**

Company: Amec Geomatrix
 Project Number: 10654
 Project Name: Custom Plywood
 Project Manager: Kathleen Goodman
 Sampled by: Chris Brown

Turnaround Request (in working days)

(Check One)

- Same Day 1 Day
 2 Day 3 Day

Standard (7 working days) (TPH analysis 5 working days)

(other)

Requested Analysis:

NMTPH-HCID
 NMTPH-GX
 NMTPH-DX
 Volatiles by 8260B
 Halogenated Volatiles by 8260B
 Semivolatiles by 8270D
 PAHs by 8270D / SIM
 PCBs by 8082
 Pesticides by 8081A
 Herbicides by 8151A
 Total RCRA Metals (8)
 TCLP Metals
 HEM by 1664
 Primary Pollutants (13)
 Metals
 PATHS

% Moisture ✓

Lab ID	Date Sampled	Time Sampled	Matrix	# of Cont.
11 GMX-S57-4-6	7/31/09	1040	S	2
12 GMX-S57-6-8		1045		2
13 GMX-S50-2-4		1110		2
14 GMX-S50-4-6		1115		2
15 GMX-S50-6-8		1120		2
16 GMX-S57-2-4		1155		2
17 GMX-S57-4-6		1200		2
18 GMX-S57-6-8		1205		2
19 GMX-S57-8.5		1150		1
20 GMX-S58-3		1308		1

Signature	Date	Time	Company
<u>Cheri Breen</u>	7/31/09	1015	Amec GMX
<u>CRS</u>	7/31/09	1015	CRS

Comments/Special Instructions: * only for PATHS if TPH-DX exceeds 400 mg/kg
Added 8/6/09 - DB

Reviewed by/Date

Chromatograms with final report



AMS OnSite Environmental Inc.

Phone: (425) 883-3881 • Fax: (425) 885-4603

Company:

AmeC Geomatrix

Project Number:

10654

Project Name:

Custom Plywood

Project Manager:

Kathleen Goodman

Sampled by:

Chris Brown

Chain of Custody

07-230

Laboratory Number:

Turnaround Request (in working days)

(Check One)

- Same Day 1 Day
- 2 Day 3 Day

Standard (7 working days) (TPH analysis 5 working days)

(other)

Requested Analysis

NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total PCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture
		X	X	X	X	X	X	X	X	X	X	X	X

Primary Pollutant Metals (13)

CPAHS

Comments/Special Instructions

*Only run CPAHS if TP#-DX exceeds 460 mg/kg

Added 8/6/09 - DB

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
21	GMX-S58-2-4	7/30/09	1310	S	2
22	GMX-S58-4-6		1315		2
23	GMX-S58-6-8		1320		2
24	GMX-S55-2-4		1335		2
25	GMX-S55-4-6		1340		2
26	GMX-S55-6-8		1345		2
27	GMX-S54-2-4		1420		2
28	GMX-S54-4-6		1425		2
29	GMX-S54-6-8		1430		2
30	GMX-S53-2-4	↓	1450	↓	2

Relinquished by	Signature	Date	Time	Company
	Cheri Beaman	7/31/09	1015	AmeC GMX
Received by	DB	7/31/09	1015	
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date				

Chromatograms with final report



OnSite Environmental Inc.

Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Amecc Geomatix
 Project Number: 10654
 Project Name: Custom Plywood
 Project Manager: Kathleen Goodman
 Sampled by: Chris Brown

Chain of Custody

Laboratory Number: 07-230

Turnaround Request (in working days)
 Same Day 1 Day
 2 Day 3 Day
 Standard (7 working days) (TPH analysis 5 working days)
 (other) _____

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture
31	GMX-S53-4-6	7/30/09	1455	S	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	GMX-S53-6-8	↓	1500	S	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	GMX-S56-2-4	↓	1530	↓	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	GMX-S56-4-6	↓	1535	↓	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	GMX-S56-6-8	↓	1540	↓	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Primary Effluent Metals (8) CPHHS
 HEM by 1664
 TCLP Metals
 Total RCRA Metals (8)
 Herbicides by 8151A
 Pesticides by 8081A
 PCBs by 8082
 PAHs by 8270D / SIM
 Semivolatiles by 8270D
 Halogenated Volatiles by 8260B
 Volatiles by 8260B
 NWTPH-DX
 NWTPH-GX/BTEX
 NWTPH-HCID

Chris Brown 7/30/09

Signature	Company	Date	Time	Comments/Special Instructions
<u>Chris Brown</u>	<u>Amecc GMX</u>	<u>7/31/09</u>	<u>1015</u>	<u>*Only sum CPHHS & TPH-DX exceeds 400 mg/kg</u>
<u>CPHHS</u>		<u>7/31/09</u>	<u>1015</u>	<u>Added 8/16/09 - D3</u>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 9, 2009

Nik Bacher
AMEC Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10654
Laboratory Reference No. 0908-061

Dear Nick:

Enclosed are the analytical results and associated quality control data for samples submitted on August 10, 2009.

Please note that pages 3-10, 12, and 14 are revised, and replace the pages in the original report dated August 24, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 24, 2009
Samples Submitted: August 10, 2009
Laboratory Reference: 0908-061
Project: 10654

Case Narrative

Samples were collected on August 10, 2009, and received by the laboratory on August 10, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-01
 Client ID: **GMX-MW09-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	13
Arsenic	6020	ND	6.6
Beryllium	6020	ND	1.3
Cadmium	6020	ND	1.3
Chromium	6010B	21	1.3
Copper	6010B	120	2.6
Lead	6010B	65	13
Mercury	7471A	0.064	0.026
Nickel	6010B	35	6.6
Selenium	6020	ND	1.3
Silver	6020	0.39	0.33
Thallium	6020	ND	0.26
Zinc	6010B	270	6.6

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-02
 Client ID: **GMX-MW09-4-6**

Analyte	Method	Result	PQL
Antimony	6010B	ND	19
Arsenic	6020	ND	7.4
Beryllium	6020	ND	1.9
Cadmium	6020	ND	1.9
Chromium	6010B	26	1.9
Copper	6010B	130	3.7
Lead	6010B	25	19
Mercury	7471A	0.049	0.037
Nickel	6010B	57	9.3
Selenium	6020	ND	1.9
Silver	6020	ND	0.46
Thallium	6020	ND	0.37
Zinc	6010B	160	9.3

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-03
 Client ID: **GMX-MW09-6-8**

Analyte	Method	Result	PQL
Antimony	6010B	ND	25
Arsenic	6020	ND	7.5
Beryllium	6020	ND	2.5
Cadmium	6020	ND	1.3
Chromium	6010B	16	2.5
Copper	6010B	56	5.0
Lead	6010B	28	25
Mercury	7471A	ND	0.050
Nickel	6010B	19	13
Selenium	6020	ND	2.5
Silver	6020	ND	0.63
Thallium	6020	ND	0.50
Zinc	6010B	150	13

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-04
 Client ID: **GMX-MW08-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.6
Arsenic	6010B	ND	5.6
Beryllium	6010B	ND	0.56
Cadmium	6010B	ND	0.56
Chromium	6010B	30	0.56
Copper	6010B	23	1.1
Lead	6010B	7.4	5.6
Mercury	7471A	0.019	0.011
Nickel	6010B	30	2.8
Selenium	6020	ND	0.56
Silver	6020	ND	0.14
Thallium	6020	ND	0.11
Zinc	6010B	67	2.8

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-05
 Client ID: **GMX-MW08-4-6**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.9
Arsenic	6010B	ND	5.9
Beryllium	6010B	ND	0.59
Cadmium	6010B	ND	0.59
Chromium	6010B	26	0.59
Copper	6010B	15	1.2
Lead	6010B	ND	5.9
Mercury	7471A	0.025	0.012
Nickel	6010B	27	2.9
Selenium	6020	ND	0.59
Silver	6020	ND	0.15
Thallium	6020	ND	0.12
Zinc	6010B	36	2.9

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-06
 Client ID: **GMX-MW08-6-8**

Analyte	Method	Result	PQL
Antimony	6010B	ND	8.5
Arsenic	6010B	ND	6.8
Beryllium	6010B	ND	0.85
Cadmium	6010B	ND	0.85
Chromium	6010B	36	0.85
Copper	6010B	26	1.7
Lead	6010B	ND	8.5
Mercury	7471A	0.035	0.017
Nickel	6010B	35	4.2
Selenium	6020	ND	0.85
Silver	6020	ND	0.21
Thallium	6020	ND	0.17
Zinc	6010B	68	4.2

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-07
 Client ID: **GMX-MW07-2-4**

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.7
Arsenic	6010B	17	5.7
Beryllium	6010B	ND	0.57
Cadmium	6010B	0.81	0.57
Chromium	6010B	54	5.7
Copper	6010B	120	1.1
Lead	6010B	110	5.7
Mercury	7471A	0.059	0.011
Nickel	6010B	59	2.8
Selenium	6020	0.73	0.57
Silver	6020	1.7	0.14
Thallium	6020	0.23	0.11
Zinc	6010B	310	2.8

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-08
 Client ID: **GMX-MW07-4-6**

Analyte	Method	Result	PQL
Antimony	6010B	ND	9.4
Arsenic	6010B	12	9.4
Beryllium	6010B	ND	0.94
Cadmium	6010B	ND	0.94
Chromium	6010B	52	0.94
Copper	6010B	80	1.9
Lead	6010B	30	9.4
Mercury	7471A	0.052	0.019
Nickel	6010B	55	4.7
Selenium	6020	ND	0.94
Silver	6020	0.31	0.24
Thallium	6020	ND	0.19
Zinc	6010B	97	4.7

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020/7471A**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-09
 Client ID: **GMX-MW07-6-8**

Analyte	Method	Result	PQL
Antimony	6010B	ND	42
Arsenic	6020	24	21
Beryllium	6020	ND	4.2
Cadmium	6020	ND	1.7
Chromium	6010B	30	4.2
Copper	6010B	60	8.3
Lead	6010B	44	42
Mercury	7471A	0.12	0.083
Nickel	6010B	46	21
Selenium	6020	ND	4.2
Silver	6020	ND	1.0
Thallium	6020	ND	0.83
Zinc	6010B	140	21

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0814S1&MB0817S1

Analyte	Method	Result	PQL
Antimony	6010B	ND	5.0
Arsenic	6010B	ND	5.0
Beryllium	6010B	ND	0.50
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Copper	6010B	ND	1.0
Lead	6010B	ND	5.0
Nickel	6010B	ND	2.5
Selenium	6020	ND	0.50
Silver	6020	ND	0.13
Thallium	6020	ND	0.10
Zinc	6010B	ND	2.5

Date of Report: August 24, 2009
Samples Submitted: August 10, 2009
Laboratory Reference: 0908-061
Project: 10654

**TOTAL METALS
EPA 7471A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-11-09
Date Analyzed: 8-11-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0811S1

Analyte	Method	Result	PQL
Mercury	7471A	ND	0.010

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-07

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	15.3	16.4	7	5.0	
Beryllium	ND	ND	NA	0.50	
Cadmium	0.711	0.774	9	0.50	
Chromium	47.7	48.8	2	0.50	
Copper	105	109	5	1.0	
Lead	92.9	103	10	5.0	
Nickel	52.2	53.0	2	2.5	
Selenium	0.639	0.505	23	0	C
Silver	1.52	1.57	3	0.03	
Thallium	0.203	ND	NA	0.0	
Zinc	269	250	7	2.5	

Date of Report: August 24, 2009
Samples Submitted: August 10, 2009
Laboratory Reference: 0908-061
Project: 10654

**TOTAL METALS
EPA 7471A
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-11-09

Date Analyzed: 8-11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-061-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.010	

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL METALS
 EPA 6010B/6020
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-11,14&17-09
 Date Analyzed: 8-11,17,18&19-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-061-07

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	80.1	80	82.3	82	3	
Arsenic	100	103	88	106	90	3	
Beryllium	50	45.1	90	46.0	92	2	
Cadmium	50	47.8	94	48.5	96	1	
Chromium	100	159	111	159	111	0	
Copper	50	153	96	153	96	0	
Lead	250	316	89	328	94	4	
Nickel	100	140	88	143	91	2	
Selenium	100	92.1	91	94.2	94	2	
Silver	25	23.3	87	24.1	90	4	
Thallium	50	42.2	84	41.0	82	3	
Zinc	100	355	85	375	106	6	

Date of Report: August 24, 2009
Samples Submitted: August 10, 2009
Laboratory Reference: 0908-061
Project: 10654

**TOTAL METALS
EPA 7471A
MS/MSD QUALITY CONTROL**

Date Extracted: 8-11-09

Date Analyzed: 8-11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-061-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.50	0.514	103	0.487	97	6	

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

NWTPH-Dx

Date Extracted: 8-17-09
 Date Analyzed: 8-17-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-MW09-2-4	GMX-MW09-4-6	GMX-MW09-6-8
Lab ID:	08-061-01	08-061-02	08-061-03
Diesel Range:	ND	ND	ND
PQL:	130	140	280
Identification:	---	---	---
Lube Oil Range:	4900	2600	2100
PQL:	130	190	250
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	74%	86%	75%
Flags:	Y,U1	Y,U1	Y,U1

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

NWTPH-Dx

Date Extracted: 8-17-09
 Date Analyzed: 8-17-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-MW08-2-4	GMX-MW08-4-6	GMX-MW08-6-8
Lab ID:	08-061-04	08-061-05	08-061-06
Diesel Range:	ND	ND	ND
PQL:	28	29	42
Identification:	---	---	---
Lube Oil Range:	ND	ND	220
PQL:	56	59	85
Identification:	---	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	95%	79%	83%
Flags:	Y	Y	Y

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

NWTPH-Dx

Date Extracted: 8-17-09
 Date Analyzed: 8-17-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GMX-MW07-2-4	GMX-MW07-4-6	GMX-MW07-6-8
Lab ID:	08-061-07	08-061-08	08-061-09
Diesel Range:	76	ND	ND
PQL:	28	47	210
Identification:	Diesel Range Organics	---	---
Lube Oil Range:	560	ND	1600
PQL:	57	94	420
Identification:	Lube Oil	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	91%	73%	65%
Flags:	Y,N	Y	Y

Date of Report: August 24, 2009
Samples Submitted: August 10, 2009
Laboratory Reference: 0908-061
Project: 10654

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-17-09
Date Analyzed: 8-17-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0817S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 91%

Flags: Y

Date of Report: August 24, 2009
Samples Submitted: August 10, 2009
Laboratory Reference: 0908-061
Project: 10654

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-17-09
Date Analyzed: 8-17-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-061-05 08-061-05 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 79% 86%

Flags: Y Y

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**TOTAL ORGANIC CARBON
 EPA 9060**

Matrix: Soil
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW09-2-4					
Laboratory ID:	08-061-01					
Total Organic Carbon	43	1.6	9060	8-19-09	8-19-09	
Client ID:	GMX-MW09-4-6					
Laboratory ID:	08-061-02					
Total Organic Carbon	25	1.6	9060	8-19-09	8-19-09	
Client ID:	GMX-MW09-6-8					
Laboratory ID:	08-061-03					
Total Organic Carbon	38	1.9	9060	8-19-09	8-19-09	
Client ID:	GMX-MW08-2-4					
Laboratory ID:	08-061-04					
Total Organic Carbon	0.42	0.075	9060	8-19-09	8-19-09	
Client ID:	GMX-MW08-4-6					
Laboratory ID:	08-061-05					
Total Organic Carbon	0.24	0.080	9060	8-19-09	8-19-09	
Client ID:	GMX-MW08-6-8					
Laboratory ID:	08-061-06					
Total Organic Carbon	5.8	0.28	9060	8-19-09	8-19-09	
Client ID:	GMX-MW07-2-4					
Laboratory ID:	08-061-07					
Total Organic Carbon	3.6	0.13	9060	8-19-09	8-19-09	
Client ID:	GMX-MW07-4-6					
Laboratory ID:	08-061-08					
Total Organic Carbon	11	0.38	9060	8-19-09	8-19-09	
Client ID:	GMX-MW07-6-8					
Laboratory ID:	08-061-09					
Total Organic Carbon	30	1.8	9060	8-19-09	8-19-09	

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
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 Project: 10654

**TOTAL ORGANIC CARBON
 EPA 9060
 QUALITY CONTROL**

Matrix: Soil
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0819S1					
Total Organic Carbon	ND	0.070	9060	8-19-09	8-19-09	

Analyte	Result	PQL	RPD	Limit	Flags
DUPLICATE					
Laboratory ID:	08-061-04				
	Sample	Duplicate			
Total Organic Carbon	0.422	0.465	0.075	10	20

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	Flags
SPIKE BLANK						
Laboratory ID:	SB0819S1					
Total Organic Carbon	48.2	42.1	ND	114	80-120	

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 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW09-2-4					
Laboratory ID:	08-061-01					
Benzo[a]anthracene	0.026	0.018	EPA 8270/SIM	8-20-09	8-21-09	
Chrysene	0.043	0.018	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[b]fluoranthene	0.063	0.018	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[k]fluoranthene	ND	0.018	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[a]pyrene	0.025	0.018	EPA 8270/SIM	8-20-09	8-21-09	
Indeno(1,2,3-c,d)pyrene	0.028	0.018	EPA 8270/SIM	8-20-09	8-21-09	
Dibenz[a,h]anthracene	ND	0.018	EPA 8270/SIM	8-20-09	8-21-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>67</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>56</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>61</i>	<i>50 - 118</i>				

Date of Report: August 24, 2009
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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW09-4-6					
Laboratory ID:	08-061-02					
Benzo[a]anthracene	1.6	0.025	EPA 8270/SIM	8-20-09	8-21-09	
Chrysene	1.9	0.025	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[b]fluoranthene	2.2	0.025	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[k]fluoranthene	0.62	0.025	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[a]pyrene	1.2	0.025	EPA 8270/SIM	8-20-09	8-21-09	
Indeno(1,2,3-c,d)pyrene	0.91	0.025	EPA 8270/SIM	8-20-09	8-21-09	
Dibenz[a,h]anthracene	0.34	0.025	EPA 8270/SIM	8-20-09	8-21-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>79</i>	<i>50 - 118</i>				

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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW09-6-8					
Laboratory ID:	08-061-03					
Benzo[a]anthracene	0.065	0.033	EPA 8270/SIM	8-20-09	8-21-09	
Chrysene	0.11	0.033	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[b]fluoranthene	0.12	0.033	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[k]fluoranthene	0.039	0.033	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[a]pyrene	0.067	0.033	EPA 8270/SIM	8-20-09	8-21-09	
Indeno(1,2,3-c,d)pyrene	0.063	0.033	EPA 8270/SIM	8-20-09	8-21-09	
Dibenz[a,h]anthracene	ND	0.033	EPA 8270/SIM	8-20-09	8-21-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>61</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>64</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>70</i>	<i>50 - 118</i>				

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW07-2-4					
Laboratory ID:	08-061-07					
Benzo[a]anthracene	0.019	0.0076	EPA 8270/SIM	8-20-09	8-21-09	
Chrysene	0.037	0.0076	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[b]fluoranthene	0.053	0.0076	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[k]fluoranthene	0.011	0.0076	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[a]pyrene	0.023	0.0076	EPA 8270/SIM	8-20-09	8-21-09	
Indeno(1,2,3-c,d)pyrene	0.029	0.0076	EPA 8270/SIM	8-20-09	8-21-09	
Dibenz[a,h]anthracene	0.0088	0.0076	EPA 8270/SIM	8-20-09	8-21-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>88</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>93</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>98</i>	<i>50 - 118</i>				

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PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMX-MW07-6-8					
Laboratory ID:	08-061-09					
Benzo[a]anthracene	ND	0.056	EPA 8270/SIM	8-20-09	8-21-09	
Chrysene	ND	0.056	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[b]fluoranthene	ND	0.056	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[k]fluoranthene	ND	0.056	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[a]pyrene	ND	0.056	EPA 8270/SIM	8-20-09	8-21-09	
Indeno(1,2,3-c,d)pyrene	ND	0.056	EPA 8270/SIM	8-20-09	8-21-09	
Dibenz[a,h]anthracene	ND	0.056	EPA 8270/SIM	8-20-09	8-21-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>65</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>73</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>77</i>	<i>50 - 118</i>				

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**PAHs by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0820S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	8-20-09	8-21-09	
Chrysene	ND	0.0067	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	8-20-09	8-21-09	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	8-20-09	8-21-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	8-20-09	8-21-09	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	8-20-09	8-21-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>105</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>109</i>	<i>50 - 118</i>				

Date of Report: August 24, 2009
 Samples Submitted: August 10, 2009
 Laboratory Reference: 0908-061
 Project: 10654

**PAHs by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	Limit			
MATRIX SPIKES											
Laboratory ID:	08-061-09										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.0622	0.0579	0.0833	0.0833	ND	75	70	29 - 104	7	27	
Acenaphthylene	0.0631	0.0607	0.0833	0.0833	ND	76	73	44 - 111	4	20	
Acenaphthene	0.0605	0.0613	0.0833	0.0833	ND	73	74	45 - 108	1	19	
Fluorene	0.0625	0.0607	0.0833	0.0833	ND	75	73	49 - 113	3	16	
Phenanthrene	0.0596	0.0580	0.0833	0.0833	ND	72	70	43 - 124	3	36	
Anthracene	0.0618	0.0604	0.0833	0.0833	ND	74	73	51 - 115	2	17	
Fluoranthene	0.0625	0.0615	0.0833	0.0833	ND	75	74	42 - 140	2	27	
Pyrene	0.0603	0.0592	0.0833	0.0833	ND	72	71	40 - 140	2	30	
Benzo[a]anthracene	0.0563	0.0564	0.0833	0.0833	ND	68	68	33 - 134	0	21	
Chrysene	0.0573	0.0572	0.0833	0.0833	ND	69	69	32 - 141	0	21	
Benzo[b]fluoranthene	0.0550	0.0538	0.0833	0.0833	ND	66	65	35 - 139	2	32	
Benzo[k]fluoranthene	0.0555	0.0584	0.0833	0.0833	ND	67	70	44 - 124	5	23	
Benzo[a]pyrene	0.0563	0.0564	0.0833	0.0833	ND	68	68	34 - 130	0	28	
Indeno(1,2,3-c,d)pyrene	0.0555	0.0559	0.0833	0.0833	ND	67	67	50 - 127	1	20	
Dibenz[a,h]anthracene	0.0566	0.0570	0.0833	0.0833	ND	68	68	58 - 122	1	15	
Benzo[g,h,i]perylene	0.0548	0.0547	0.0833	0.0833	ND	66	66	47 - 126	0	21	
<i>Surrogate:</i>											
2-Fluorobiphenyl						77	71	39 - 103			
Pyrene-d10						75	72	39 - 115			
Terphenyl-d14						81	78	50 - 118			

Date of Report: August 24, 2009
Samples Submitted: August 10, 2009
Lab Traveler: 0908-061
Project: 10654

% MOISTURE

Date Analyzed: 8-11-09

Client ID	Lab ID	% Moisture
GMX-MW09-2-4	08-061-01	62
GMX-MW09-4-6	08-061-02	73
GMX-MW09-6-8	08-061-03	80
GMX-MW08-2-4	08-061-04	10
GMX-MW08-4-6	08-061-05	15
GMX-MW08-6-8	08-061-06	41
GMX-MW07-2-4	08-061-07	12
GMX-MW07-4-6	08-061-08	47
GMX-MW07-6-8	08-061-09	88



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Custom Plywood RI Phase II
 PROJECT NUMBER: 10654
 RESULTS TO: Nick Bacher
 TURNAROUND TIME: standard
 SAMPLE SHIPMENT METHOD: hand delivered

LABORATORY NAME: On Site
 LABORATORY ADDRESS:
 LABORATORY CONTACT: David Banmeister
 LABORATORY PHONE NUMBER:

DATE: 8/10/09
 REPORTING REQUIREMENTS:
 GEOTRACKER REQUIRED: YES NO
 SITE SPECIFIC GLOBAL ID NO.

DATE	TIME	SAMPLE NUMBER	ANALYSES						CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
			PP 13 meths	TPH-Dx	TOC	cPATS	90 molsrke	X								
8/10/09	0900	GMX-MW09-2-4	X	X	X	X	X	4 oz. glass	S					2	not homogenized	
8/10/09	0905	GMX-MW09-4-6	X	X	X	X	X	"	S					2	"	
8/10/09	0910	GMX-MW09-6-8	X	X	X	X	X	"	S					2	"	
8/10/09	1120	GMX-MW08-2-4	X	X	X	X	X	"	S					2	"	
8/10/09	1125	GMX-MW08-4-6	X	X	X	X	X	"	S					2	"	
8/10/09	1130	GMX-MW08-6-8	X	X	X	X	X	"	S					2	"	
8/10/09	1300	GMX-MW07-2-4	X	X	X	X	X	"	S					2	"	
8/10/09	1305	GMX-MW07-4-6	X	X	X	X	X	"	S					2	"	
8/10/09	1310	GMX-MW07-6-8	X	X	X	X	X	"	S					2	"	
/																

REQUISITIONED BY: Nick Bacher
 SIGNATURE: Nick Bacher
 PRINTED NAME: Nick Bacher
 COMPANY: AMEC GMX

RECEIVED BY: M. VOUN
 SIGNATURE: M. VOUN
 PRINTED NAME: M. VOUN
 COMPANY: OBE

DATE: 8/10/09
 TIME: 1600

TOTAL NUMBER OF CONTAINERS: 18

SAMPLING COMMENTS: *Please analyze any sample exceeding 460 ppm TPH-Dx for cPATS.
 Added 8/20/09 DB

SIGNATURE:
 PRINTED NAME:
 COMPANY:

SIGNATURE:
 PRINTED NAME:
 COMPANY:

SIGNATURE:
 PRINTED NAME:
 COMPANY:

SIGNATURE:
 PRINTED NAME:
 COMPANY:

One Union Square, 600 University Street, Suite 1020
 Seattle, Washington 98101-4107
 Tel 206.342.1760 Fax 206.342.1761

Geomatrix



APPENDIX C

Ecology's Workbook Tools for Calculating Soil & Groundwater Cleanup Levels under the Model Toxics Control Act Cleanup Regulation (December, 2008): Soil TPH Worksheets

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information

Date: 07/17/08

Site Name: Custom Plywood Anacortes

Sample Name: GMX-MW3 6-7.5'

2. Enter Soil Concentration Measured

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc	Composition
	dry basis	Ratio
	mg/kg	%
Petroleum EC Fraction		
AL_EC >5-6	1	0.01%
AL_EC >6-8	1	0.01%
AL_EC >8-10	0	0.00%
AL_EC >10-12	200	1.49%
AL_EC >12-16	1500	11.14%
AL_EC >16-21	2300	17.08%
AL_EC >21-34	5900	43.81%
AR_EC >8-10	0	0.00%
AR_EC >10-12	26	0.19%
AR_EC >12-16	330	2.45%
AR_EC >16-21	1200	8.91%
AR_EC >21-34	2000	14.85%
Benzene	0	0.00%
Toluene	0	0.00%
Ethylbenzene	0	0.00%
Total Xylenes	0	0.00%
Naphthalene	0.19	0.00%
1-Methyl Naphthalene	5.1	0.04%
2-Methyl Naphthalene	2.2	0.02%
n-Hexane	0	0.00%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.27	0.00%
Benzo(b)fluoranthene	0.37	0.00%
Benzo(k)fluoranthene	0.27	0.00%
Benzo(a)pyrene	0	0.00%
Chrysene	0.38	0.00%
Dibenz(a,h)anthracene	0	0.00%
Indeno(1,2,3-cd)pyrene	0	0.00%
Sum	13466.78	100.00%

Notes for Data Entry

Set Default Hydrogeology

Clear All Soil Concentration Data Entry Cells

Restore All Soil Concentration Data cleared previously

REMARK:

Data that were not detected (U flagged) were entered as 0.
Data that were flagged with J were entered at the reporting limit.

3. Enter Site-Specific Hydrogeological Data

Total soil porosity:	0.42	Unitless
Volumetric water content:	0.3	Unitless
Volumetric air content:	0.12	Unitless
Soil bulk density measured:	1.5	kg/L
Fraction Organic Carbon:	0.179	Unitless
Dilution Factor:	20	Unitless

4. Target TPH Ground Water Concentration (if adjusted)

If you adjusted the target TPH ground water concentration, enter adjusted value here: ug/L

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 7/17/2008

Site Name: Custom Plywood Anacortes

Sample Name: GMX-MW3 6-7.5'

Measured Soil TPH Concentration, mg/kg: 13,466.780

1. Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective Soil TPH Conc, mg/kg	With Measured Soil Conc		Does Measured Soil Conc Pass or Fail?
			RISK @	HI @	
Protection of Soil Direct Contact: Human Health	Method B	4,760	9.14E-07	2.83E+00	Fail
	Method C	58,070	2.27E-07	2.32E-01	Pass
Protection of Method B Ground Water Quality (Leaching)	Potable GW: Human Health Protection	100% NAPL	1.28E-10	3.39E-02	Pass
	Target TPH GW Conc. @ 500 ug/L	100% NAPL	NA	NA	Pass

Warning! Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (Refer to WAC 173-340-7490 through ~7494).

Warning! Check Residual Saturation (WAC340-747(10)).

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use
Protective Soil Concentration, TPH mg/kg	4,760.35	58,069.91
Most Stringent Criterion	HI =1	HI =1

Soil Criteria	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @
HI=1	YES	4.76E+03	3.23E-07	1.00E+00	YES	5.81E+04	9.79E-07	1.00E+00
Total Risk=1E-5	NO	1.47E+05	1.00E-05	3.09E+01	NO	5.93E+05	1.00E-05	1.02E+01
Risk of Benzene= 1E-6	NA	NA	NA	NA	NA			
Risk of cPAHs mixture= 1E-6	NO	1.47E+04	1.00E-06	3.09E+00				
EDB	NA	NA	NA	NA				
EDC	NA	NA	NA	NA				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

Most Stringent Criterion	NA
Protective Ground Water Concentration, ug/L	NA
Protective Soil Concentration, mg/kg	Soil-to-Ground Water is not a critical pathway!

Ground Water Criteria	Protective Potable Ground Water Concentration @Method B				Protective Soil Conc, mg/kg
	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	
HI=1	YES	2.02E+01	1.24E-10	5.66E-02	100% NAPL
Total Risk = 1E-5	YES	2.02E+01	1.24E-10	5.66E-02	100% NAPL
Total Risk = 1E-6	YES	2.02E+01	1.24E-10	5.66E-02	100% NAPL
Risk of cPAHs mixture= 1E-5	YES	2.02E+01	1.24E-10	5.66E-02	100% NAPL
Benzene MCL = 5 ug/L	NA	NA	NA	NA	NA
MTBE = 20 ug/L	NA	NA	NA	NA	NA

Note: 100% NAPL is 69000 mg/kg TPH.

3.2 Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protective Ground Water Concentration			Protective Soil Conc, mg/kg
	TPH Conc, ug/L	Risk @	HI @	
Target TPH GW Conc = 500 ug/L	2.02E+01	1.24E-10	5.66E-02	100% NAPL

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information

Date: 07/16/08

Site Name: Custom Plywood Anacortes

Sample Name: GMX-S9 2-4'

2. Enter Soil Concentration Measured

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc	Composition
	dry basis mg/kg	Ratio %
Petroleum EC Fraction		
AL_EC >5-6	1	0.05%
AL_EC >6-8	1	0.05%
AL_EC >8-10	0	0.00%
AL_EC >10-12	0	0.00%
AL_EC >12-16	0	0.00%
AL_EC >16-21	84	4.47%
AL_EC >21-34	1400	74.49%
AR_EC >8-10	0	0.00%
AR_EC >10-12	0	0.00%
AR_EC >12-16	0	0.00%
AR_EC >16-21	31	1.65%
AR_EC >21-34	360	19.15%
Benzene	0	0.00%
Toluene	0	0.00%
Ethylbenzene	0	0.00%
Total Xylenes	0	0.00%
Naphthalene	0.098	0.01%
1-Methyl Naphthalene	0	0.00%
2-Methyl Naphthalene	0	0.00%
n-Hexane	0	0.00%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.31	0.02%
Benzo(b)fluoranthene	0.35	0.02%
Benzo(k)fluoranthene	0.36	0.02%
Benzo(a)pyrene	0.43	0.02%
Chrysene	0.45	0.02%
Dibenz(a,h)anthracene	0.093	0.00%
Indeno(1,2,3-cd)pyrene	0.39	0.02%
Sum	1879.481	100.00%

Notes for Data Entry

Set Default Hydrogeology

Clear All Soil Concentration Data Entry Cells

Restore All Soil Concentration Data cleared previously

REMARK:

Data that were not detected (U flagged) were entered as 0.
Data that were flagged with J were entered at the reporting limit.

3. Enter Site-Specific Hydrogeological Data

Total soil porosity:	0.42	Unitless
Volumetric water content:	0.3	Unitless
Volumetric air content:	0.12	Unitless
Soil bulk density measured:	1.5	kg/L
Fraction Organic Carbon:	0.0878	Unitless
Dilution Factor:	20	Unitless

4. Target TPH Ground Water Concentration (if adjusted)

If you adjusted the target TPH ground water concentration, enter adjusted value here: ug/L

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 7/16/2008

Site Name: Custom Plywood Anacortes

Sample Name: GMX-S9 2-4'

Measured Soil TPH Concentration, mg/kg: 1,879.481

1. Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective Soil TPH Conc, mg/kg	With Measured Soil Conc		Does Measured Soil Conc Pass or Fail?
			RISK @	HI @	
Protection of Soil Direct Contact: Human Health	Method B	333	5.64E-06	1.94E-01	Fail
	Method C	13,419	1.40E-06	1.62E-02	Pass
Protection of Method B Ground Water Quality (Leaching)	Potable GW: Human Health Protection	100% NAPL	3.14E-09	1.41E-03	Pass
	Target TPH GW Conc. @ 500 ug/L	100% NAPL	NA	NA	Pass

Warning! Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (Refer to WAC 173-340-7490 through ~7494).

Warning! Check Residual Saturation (WAC340-747(10)).

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use
Protective Soil Concentration, TPH mg/kg	333.19	13,418.84
Most Stringent Criterion	Risk of cPAHs mixture= 1E-6	Total Risk=1E-5

Soil Criteria	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @
HI=1	NO	9.69E+03	2.91E-05	1.00E+00	NO	1.16E+05	8.66E-05	1.00E+00
Total Risk=1E-5	NO	3.33E+03	1.00E-05	3.44E-01	YES	1.34E+04	1.00E-05	1.15E-01
Risk of Benzene= 1E-6	NA	NA	NA	NA	NA			
Risk of cPAHs mixture= 1E-6	YES	3.33E+02	1.00E-06	3.44E-02				
EDB	NA	NA	NA	NA				
EDC	NA	NA	NA	NA				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

Most Stringent Criterion	NA
Protective Ground Water Concentration, ug/L	NA
Protective Soil Concentration, mg/kg	Soil-to-Ground Water is not a critical pathway!

Ground Water Criteria	Protective Potable Ground Water Concentration @Method B				Protective Soil Conc, mg/kg
	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	
HI=1	YES	4.96E+00	3.39E-09	3.18E-03	100% NAPL
Total Risk = 1E-5	YES	4.96E+00	3.39E-09	3.18E-03	100% NAPL
Total Risk = 1E-6	YES	4.96E+00	3.39E-09	3.18E-03	100% NAPL
Risk of cPAHs mixture= 1E-5	YES	4.96E+00	3.39E-09	3.18E-03	100% NAPL
Benzene MCL = 5 ug/L	NA	NA	NA	NA	NA
MTBE = 20 ug/L	NA	NA	NA	NA	NA

Note: 100% NAPL is 68000 mg/kg TPH.

3.2 Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protective Ground Water Concentration			Protective Soil Conc, mg/kg
	TPH Conc, ug/L	Risk @	HI @	
Target TPH GW Conc = 500 ug/L	4.96E+00	3.39E-09	3.18E-03	100% NAPL

APPENDIX D

Terrestrial Ecological Evaluation & Soil Bioassay Results

APPENDIX D

SITE SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION

Former Custom Plywood Mill
Anacortes, Washington

Prepared for:

GBH Investments, LLC
Anacortes, Washington

And

Washington State Department of Ecology
Bellevue, Washington

Prepared by:

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June 2010

Project No. 010654000.00001

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FIGURES

Figure D-1	Terrestrial Ecological Evaluation Conceptual Site Model
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ATTACHMENT

Attachment D-1	Bioassay Report
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SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION

Former Custom Plywood Mill Anacortes, Washington

1.0 INTRODUCTION

On behalf of GBH Investments, LLC (GBH), and in accordance with Agreed Order DE 5235 (the Agreed Order), AMEC Geomatrix, Inc. (AMEC), prepared this site-specific terrestrial ecological evaluation (TEE) as Appendix D of the Remedial Investigation (RI) Report (AMEC, 2010) for the former Custom Plywood Mill (the Mill) located on Fidalgo Bay in Anacortes, Washington. Information developed in this TEE will be used to:

- Determine whether a release of hazardous substances to the soil may pose a threat to the terrestrial environment,
- Characterize existing or potential threats to terrestrial plants or animals exposed to hazardous substances in the soil,
- Establish site specific cleanup standards for the protection of terrestrial plants and animals, and
- Develop and evaluate cleanup action alternatives.

1.1 BASIS FOR TERRESTRIAL ECOLOGICAL EVALUATION

Pursuant to Washington Administrative Code (WAC) 173-340-7490(1)(3)(b), for industrial properties or commercial properties, current or future potential for exposure to soil contamination need only be evaluated for terrestrial wildlife protection. Plants and soil biota need not be considered. WAC 173-340-7493 sets forth the procedures for conducting a site-specific Terrestrial Ecological Evaluation (TEE) as part of a Model Toxics Control Act (MTCA) cleanup action. The TEE is intended to facilitate selection of a cleanup action by developing information necessary to evaluate cleanup action alternatives in the feasibility study. In the planning phase of a TEE, two main elements must be completed and approved by the Washington State Department of Ecology (Ecology) before the TEE is implemented:

- Problem formulation step; and
- Selection of the method(s) for addressing issues identified in the problem formulation step.



1.2 SITE DESCRIPTION AND BACKGROUND

1.2.1 Site Description and Location

The former Custom Plywood mill is located at 3311 V Place on the western shore of Fidalgo Bay, within the city limits of Anacortes, Washington (Figures 1 and 2 in the RI report; AMEC, 2010). It is situated at latitude 48°29'40" North, longitude 122°36'04" West, in Section 30, Township 34 North, Range 2 East, in Skagit County, Washington. The undeveloped portion of the former plant, which is owned by GBH, comprises an irregularly shaped parcel that covers approximately 6.6 acres of upland and 34 acres of tidal areas. According to the Skagit County Assessor's records, portions of the former Custom Plywood plant that are currently owned by other parties comprise roughly 7 upland acres and 1.3 tideland acres.

1.2.2 Site History and Land Use

The former Custom Plywood mill is a former sawmill, wooden box manufacturing plant, and plywood manufacturing plant. The portion of the former Mill site that is owned by GBH has remained undeveloped since 1992, when the buildings were destroyed by fire. The fire did not damage structures outside of the current GBH parcels. Consequently, several parcels on the periphery of the GBH property, which were also part of the former plant, have been sold and redeveloped as industrial and commercial enterprises. The exception to the industrial and commercial development is the Tommy Thompson Trail, which was constructed on the footprint of the former railroad line that serviced the industrial properties along the Anacortes waterfront throughout the last century. Other owners of parcels formerly occupied by the Mill include the City of Anacortes, North Harbor Diesel, John and Jennifer Andrews, and Cimarron Trucking.

The GBH parcels, and the other former Custom Plywood parcels not owned by GBH, are zoned for industrial use. Along the southern boundary of the GBH parcels is an undeveloped embankment leading uphill to Fidalgo Bay Road. Across from Fidalgo Bay Road and up the steep embankment from the southwest portion of the GBH parcels are several residential properties zoned R2 (residential low density) and R3 (residential medium density).

Additional information on the Custom Plywood history and description is provided in Section 2 of the RI report (AMEC, 2010).

2.0 PROBLEM FORMULATION

The problem formulation defines the focus of the site-specific TEE by specifying:

- Chemicals of potential ecological concern (COPCs);
- Complete exposure pathways; and
- Terrestrial ecological receptors of concern.

2.1 CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN

The field phase of the remedial investigation for the former Custom Plywood Mill, completed in summer 2009 (AMEC, 2010), included collection of soil samples from 58 push-probe borings and 11 groundwater monitoring wells, as well as collection of two soil samples for bioassay analysis. The draft RI (AMEC, 2010) identified the primary constituents of potential concern in soil as total petroleum hydrocarbons (TPH) in the diesel range (TPH-D) and the oil range (TPH-O), inorganic constituents (arsenic, cadmium, copper, chromium, lead, mercury, nickel, selenium, silver, and zinc), and select semivolatile organic compounds (SVOCs) (primarily carcinogenic polycyclic aromatic hydrocarbons). Table D-1 lists the COPCs based on comparisons of concentrations of chemical constituents in on-site surficial soils to ecological indicator soil concentrations for protection of terrestrial plants and animals under the Model Toxics Control Act (Ecology, 2007).

2.2 COMPLETE EXPOSURE PATHWAYS

An exposure pathway is defined by four elements:

- a source and mechanism of COPC release to the environment;
- an environmental medium of concern (e.g., soil) or transport mechanism (e.g., volatilization) for the released COPC;
- a point of potential contact with the medium of concern; and
- an exposure route (e.g., ingestion) at the contact point.

An exposure pathway is considered "complete" if all four of these elements are present. Only complete exposure pathways need to be evaluated for the purposes of a risk assessment. Figure D-1 depicts the TEE conceptual site model.

Complete exposure pathways for COPCs in site soil under current conditions include:

- Wildlife ingestion of soil;
- Wildlife ingestion of on-site plants;



- Mammalian predator ingestion of on-site soil biota;
- Avian predator ingestion of on-site soil biota.

Future conditions at the GBH property following the planned redevelopment, will likely eliminate the exposure pathways for wildlife organisms through two means: (1) maintaining a thickness of clean fill material of at least 6 feet between the contaminated soil and the surface, and/or (2) capping the site with buildings, pavement, or other impervious structures.

2.3 TERRESTRIAL ECOLOGICAL RECEPTORS OF CONCERN

The Former Custom Plywood Mill property is mostly unsurfaced, except for remnants of concrete foundations. A wetlands delineation report was sent to the U.S. Army Corps of Engineers (Corps) for a jurisdictional determination (Geomatrix, 2006). The Corps determined that three of the four wetlands identified in the delineation report are isolated and not regulated (Corps, 2006). A fifth area has been identified by Ecology as a wetland.

Wildlife surveys have not been conducted at the former mill site. Information provided by the Washington Department of Fish and Wildlife (WDFW) indicates that no threatened or endangered species listed pursuant to the Endangered Species Act are likely to utilize the site. Wildlife and plant species classified by the WDFW as priority species, candidate species, or species of concern in Skagit County are listed in Table D-2 (WDFW, 2008). According to the Washington Natural Heritage Program, no known high-quality ecosystems or rare plants exist on the property (WDNR, 2010). Based on the preferred habitat of plants and wildlife listed in Table D-2, and the habitat that exists on the former mill site, only two bird species of concern (merlin and purple martin) and one state threatened plant species (California buttercup) could potentially utilize the site. These species are discussed below. Potential current and future terrestrial species that may occasionally feed, or reside, within the site are ground-feeding birds, predators of ground-feeding small mammals, and herbivorous small mammals.

2.3.1 Merlin

Merlins are small falcons that feed primarily on small birds, but will also consume rodents, reptiles, and large insects such as dragonflies (Seattle Audubon Society, 2008). Hunting ranges for Merlin have been reported to range from 1,557 to 8,327 acres (Konrad, 2004). Three subspecies occur in Washington – black merlin, taiga merlin, and prairie merlin. Black merlin breeds in coastal forests along the outer coast of the state, the Hood Canal area, and the Puget Sound. Taiga merlin breeds in high-elevation forest of the north Cascades and northeastern Washington. Prairie merlin occurs in the state during migration (Seattle Audubon Society, 2008). The three species generally breed in rugged terrain that provides both trees for nests and open areas for hunting. In the Puget Sound area, they can be found in small

numbers near openings in coniferous forests (Seattle Audubon Society, 2008). No suitable nesting habitat for merlin occurs on the former Custom Plywood site. While black merlin is generally nonmigratory, the other two species migrate south during fall and winter months (Seattle Audubon Society, 2008).

Given the large hunting range of merlin relative to the available habitat on site and that two of the species are not year-round residents, it is very unlikely that merlin are being adversely impacted by soil contaminants on the former Custom Plywood site.

2.3.2 Purple Martin

Purple Martin can be found in developed areas, along waterfronts, and in fields, wetlands, and clearings. The birds are insectivores that consume flying insects, especially mosquitoes. Purple martins occur in western Washington seasonally during spring and summer. In late summer they migrate south to South America's Amazon Basin (Seattle Audubon Society, 2008).

Given that Purple Martin occur in the area only seasonally and that they consume flying insects that would be expected to have minimal contact with site soil, it is very unlikely that this species is being adversely impacted by soil contaminants on the former Custom Plywood site.

2.3.3 California Buttercup

This plant species is found from southern Vancouver Island to southern California and has been reported in Skagit and San Juan counties in Washington. It grows at an elevation of 15 to 50 feet in open grassy areas, rocky slopes along the shoreline, and in rocky wooded areas (WDNR, 2010).

No plant surveys have been conducted on the former Custom Plywood site to verify the presence of the California Buttercup. Based on the results of the lettuce bioassay testing, which is discussed in Section 4.2, it is possible that in site areas with elevated soil TPH (> 1,700 mg/kg) the growth rate of this species could be reduced.



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3.0 SELECTION OF APPROPRIATE TEE METHODS

WAC 173-340-7493 (3) lists the various methods available for conducting a site-specific TEE:

- Literature surveys;
- Soil bioassays;
- Application of the wildlife exposure model in WAC-173-340-900 Tables 749-4 and 749-5;
- Biomarker methods,
- Site-specific empirical studies;
- Weight-of-evidence approach using multiple methods; and
- Other methods approved by Ecology.

Based on discussions with Ecology, the soil bioassay method was selected for this TEE. The following bioassays were performed on diluted aliquots of soil samples collected at the site to establish soil concentrations protective of soil biota and plants:

- 14-Day Earthworm Bioassay Protocol for Soil Toxicity Testing (Ecology, 1996a), and
- 14-Day Early Seedling Growth Protocol for Soil Toxicity Screening (Ecology, 1996b).

The bioassays were conducted by Nautilus Environmental in Tacoma, Washington. A summary of the bioassay test results is presented below. The complete bioassay report is provided as an Attachment D-1.



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4.0 RESULTS

This section discusses the results of the earthworm and lettuce bioassays conducted with site soils.

4.1 EARTHWORM BIOASSAY RESULTS

The earthworm bioassay tests the mean percentage survival of earthworms (*Eisenia foetida*) in artificial soil (the control) and the mean percentage survival in test soil after a 14-day exposure period. Survival in the two groups is then compared statistically using the Dunnett's Multiple Comparison test. Five replicates were tested for the control soil and five test groups were tested with TPH concentrations ranging from 590 to 8,500 mg/kg. The concentrations of TPH in the test soils were obtained by diluting soil samples collected at the site of known TPH concentration with the artificial soil specified for the laboratory control soil.

Quality control tests were conducted by running bioassay tests using three different concentrations of 2-chloroacetamide as a reference toxicant. The performance of the bioassay (suitability of test worms, *Eisenia foetida*) was evaluated based on the percentage survival in artificial soil and the LC₅₀ (concentration lethal to 50 percent of test subjects) of 2-chloroacetamide calculated based on exposure of test specimens to three concentrations. The percentage survival of worms in the artificial (control) soil met acceptability criteria of 90 percent or greater. Results of the reference toxicant (2-chloroacetamide) tests fell within the acceptable range of historical LC₅₀ values determined by the laboratory. All acceptability criteria for this bioassay were met.

The earthworm bioassay testing results are shown in Table D-3. The percentage survival of earthworms in the test soils at all concentrations tested was not statistically different (based on significance criterion of $p < .05$) than in the control soil. The percentage survival of earthworms in the test soils was equal to or greater than in the laboratory control at the three highest TPH concentrations tested. These results suggest that TPH concentrations equal to or below 8,500 mg/kg, the maximum TPH concentration tested, in soils at the site are not likely to impact soil biota. The estimated concentrations of metals and PAHs in the test soil with the highest concentrations of TPH (estimated from the soil dilution ratio) are shown in Table D-4. The estimated concentrations are all below applicable MTCA screening concentrations for plants, soil biota, and wildlife

4.2 LETTUCE BIOASSAY RESULTS

The lettuce (*Lactuca sativa*) bioassay tests two different endpoints: percentage survival (seed germination) and aboveground growth (final aboveground, dry biomass) after the 14-day test period. Five replicates were tested for the artificial (control) soil and five test soils were tested



with TPH concentrations ranging from 1,700 to 9,800 mg/kg. The concentrations of TPH in the test soils were obtained by diluting soil samples collected at the site with the artificial soil specified for the laboratory control.

Quality control tests were conducted by running comparable bioassay tests using five different concentrations of boric acid as a reference toxicant. The performance of the butter crunch lettuce (*Lactuca sativa*) bioassay was evaluated based on the percentage survival in artificial soil and the LC₅₀ of boric acid determined from exposure to five concentrations of boric acid. The percentage survival of lettuce (seed germination) in artificial soil met acceptability criteria of 90 percent or greater. Results of the reference toxicant (boric acid) tests fell within the acceptable range of historical LC₅₀ values determined by the laboratory. All acceptability criteria for this bioassay were met.

The lettuce bioassay test results for the percentage survival endpoint is shown in Table D-5. The percentage survival of lettuce in the test soils at all concentrations tested was not statistically different (based on significance criterion of $p < .05$) than in the control soil. These results suggest that TPH concentrations below 9,800 mg/kg in soils at the site are not likely to impact plant survival.

The lettuce bioassay testing results for the growth endpoint is shown in Table D-6. The biomass of lettuce in the test soil at a TPH concentration of 1,700 mg/kg was not significantly different than the control (based on significance criterion of $p < .05$). At the other TPH concentrations tested (1,900 to 9,800 mg/kg), the biomass of lettuce in the test soils at the end of the test was lower than in the control, and the differences were statistically significant ($p < .05$). These results suggest that TPH concentrations above 1,700 mg/kg in soils at the site may have an adverse chronic impact on plant growth.

Analytical results indicated that soil concentrations of metals and PAHs were below applicable MTCA screening concentrations for plants, soil biota, and wildlife (Table D-4).

Table D-7 lists the proposed screening values for TEE COPCs in site surficial soils.

5.0 REFERENCES

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TABLES

TABLE D-1

CHEMICALS IN SURFICIAL SITE SOILS COMPARED TO MTCA ECOLOGICAL INDICATOR SOIL CONCENTRATIONS
FOR THE PROTECTION OF TERRESTRIAL PLANTS^{1,2}

Former Custom Plywood Mill
Anacortes, Washington

Constituent	MTCA Concentrations (mg/kg) ³			Analytical Results (mg/kg)																
	Plants	Soil Biota	Wildlife	MW01	MW03	MW07	MW08	MW09	S1	S2	S3	S6	S7	S9	S10	S11	S13	S14	S15	S16
Metals																				
Antimony	5	NA	NA	9.4U		9.4U	5.9U	19U	6.8U	7.4U	7.2U	66					5.3U	8.7	6.5	12
Arsenic (III)	NA	NA	7	19U		17		7.4U	14U	15U	14U	14					13U	14U	13U	17
Chromium (total)	42	42	67			54														
Copper	100	50	217	110		120		130	74	73	87	87						220	190	50
Lead	50	500	118			110		65				130						230	91	
Mercury (inorganic)	0.3	0.1	5.5																	
Nickel	30	200	980			59	30	57	37	38	32								58	
Selenium	1	70	0.3	0.53		0.73	0.59U	1.9U	0.34U	0.37U	0.58	1.9					1.3U	2.1	0.63U	0.4
Zinc	86	200	360			310		270	120	94	130	220						300	92	140
PCBs																				
Total PCBs	40	NA	0.65																	3.9
TPHs																				
Diesel Range Organics	NA	200	6,000		1,900							500U	31,000	370	640	630	3,500U	6,900U	10,000U	3,700
Total Dioxins (TEQ)	NA	NA	2.00E-06	1.70E-05																

Constituent	MTCA Concentrations (mg/kg) ³			Analytical Results (mg/kg)																
	Plants	Soil Biota	Wildlife	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33
Metals																				
Antimony	5	NA	NA	9.1	5.7U	5.7U	19		5.6U	5.8U	27	9.1U	12	7U		5.4	8.5	6U	6.2U	6.3U
Arsenic (III)	NA	NA	7	16	11U	11U	13U	8.9U	11U	12U	13	9.5	16U	14U	9.6U	9.3U	31	12U	12U	13U
Chromium (total)	42	42	67									110								
Copper	100	50	217	80		60	74			80	170	210				68	140			
Lead	50	500	118	98			63				510		58				210			
Mercury (inorganic)	0.3	0.1	5.5									0.59					0.19		0.13	
Nickel	30	200	980				34		37	34	34	98	40	36		33		33	31	
Selenium	1	70	0.3	0.31	0.41	0.57	0.33	0.63U	0.38	0.38	2.2	0.5	0.9	0.38	0.88	1.3	1.6	1J	0.5	0.54
Silver	2	NA	NA																	
Thallium	1	NA	NA																	
Zinc	86	200	360	150			120				870	930	120	99			260			100
PCBs																				
Total PCBs	40	NA	0.65																	
TPHs																				
Diesel Range Organics	NA	200	6,000		480						11,000		500U	220	450		1,800			
Total Dioxins (TEQ)	NA	NA	2.00E-06																	

TABLE D-1

**CHEMICALS IN SURFICIAL SITE SOILS COMPARED TO MTCA ECOLOGICAL INDICATOR SOIL CONCENTRATIONS
FOR THE PROTECTION OF TERRESTRIAL PLANTS^{1,2}**
Former Custom Plywood Mill
Anacortes, Washington

Constituent	MTCA Concentrations (mg/kg) ³			Analytical Results (mg/kg)																
	Plants	Soil Biota	Wildlife	S35	S36	S37	S38	S39	S40	S41	S42	S43	S44	S45	S46	S47	S48	S49	S50	S51
Metals																				
Antimony	5	NA	NA	6.8U	7.2U	6U	6U	6.2U	5.9U	6.3U	5.9U	6.7U	5.8U	13U	6.3U	25	33U	19U	23U	6.3U
Arsenic (III)	NA	NA	7	6.8U	7.2U	7.8								8.2		7.5U				
Chromium (total)	42	42	67				46													
Copper	100	50	217	53		52		51				74	53	140					55	
Lead	50	500	118																98	
Mercury (inorganic)	0.3	0.1	5.5																0.12	
Nickel	30	200	980	35	34	36	77	58			45	31	35	35	67					30
Selenium	1	70	0.3	0.68U	0.72U	0.6U	0.6U	0.62U	0.59U	0.63U	0.59U	0.67U	0.58U		0.63U	0.79	3.3U	1.9U	2.3U	0.63U
Silver	2	NA	NA																	
Thallium	1	NA	NA																	
Zinc	86	200	360	180	91	120						110		190		98		150		
PCBs																				
Total PCBs	40	NA	0.65																	
TPHs																				
Diesel Range Organics	NA	200	6,000					30,000				1,700	360	1,500		420	550	640		
Total Dioxins (TEQ)	NA	NA	2.00E-06																	

Constituent	MTCA Concentrations (mg/kg) ³			Analytical Results (mg/kg)						
	Plants	Soil Biota	Wildlife	S52	S53	S54	S55	S56	S57	S58
Metals										
Antimony	5	NA	NA	23U	6.8U	5.8U	6.4U	5.7U	5.4U	6U
Arsenic (III)	NA	NA	7	84	11	9.2	7.9			
Chromium (total)	42	42	67	46J						
Copper	100	50	217	190	83		210			
Lead	50	500	118	300		61				
Mercury (inorganic)	0.3	0.1	5.5	0.18						
Nickel	30	200	980	52	52	32	32	49	55	37
Selenium	1	70	0.3	2.3U	0.68U	0.58U	0.64U	0.57U	0.54U	0.6U
Silver	2	NA	NA							
Thallium	1	NA	NA							
Zinc	86	200	360	500						100
PCBs										
Total PCBs	40	NA	0.65							
TPHs										
Diesel Range Organics	NA	200	6,000	540U						
Total Dioxins (TEQ)	NA	NA	2.00E-06							

Notes

- U indicates concentration is below analytical reporting limit.
NA indicates no value has been established.
- Shading indicates result (or reporting limit if analyte not detected) exceeds MTCA ecological indicator concentration for one or more of the taxonomic groups.
- Ecological indicator soil concentrations specific under MTCA (Ecology, 2007).

Abbreviations

mg/kg = milligrams per kilogram
 MTCA = Model Toxics Control Act
 PCBs = polychlorinated biphenyls
 TEQ = toxicity equivalent
 TPH = total petroleum hydrocarbons



TABLE D-2

SKAGIT COUNTY SPECIAL STATUS SPECIES ^{1, 2}

Former Custom Plywood Mill
Anacortes, Washington

Common Name	Scientific Name	Status		Preferred Habitat	Preferred Habitat on Property
		Federal	State		
Mammals					
Fisher	<i>Martes pennanti</i>	FC	SE	Forest	No
Gray wolf	<i>Canis lupus</i>	FE	SE	Areas with few roads	No
Grizzly bear	<i>Ursus arctos</i>	FT	SE	Arctic tundra, alpine tundra, and subalpine mountain forests.	No
Keen's myotis	<i>Myotis keenii</i>	None	SC	Bare rock/talus/scree, cliff, forest - conifer, woodland - conifer	No
Lynx	<i>Lynx canadensis</i>	FT	ST	Boreal and montane regions	No
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	FCo	SC	Cliff, desert, forest, caves, mines	No
Wolverine	<i>Gulo gulo</i>	FCo	SC	Alpine and arctic tundra, boreal and mountain forests	No
Birds					
Bald eagle	<i>Haliaeetus leucocephalus</i>	FCo	SS	Cliff, forest, roosting & nesting habitat	No
Black-backed woodpecker	<i>Picoides arcticus</i>	None	SC	Boreal and montane coniferous forests	No
Golden eagle	<i>Aquila chrysaetos</i>	None	SC	Open country, in prairies, arctic and alpine tundra, open wooded country, and barren areas, especially in hilly or mountainous regions.	No
Lewis' woodpecker	<i>Melanerpes lewis</i>	None	SC	Open forest and woodland	No
Merlin	<i>Falco columbarius</i>	None	SC	Marshes, deserts, seacoasts, near coastal lakes and lagoons, open woodlands, fields, etc. May roost in conifers in winter.	Yes
Northern goshawk	<i>Accipiter gentilis</i>	FCo	SC	Cropland/hedgerow, forest	No
Peregrine falcon	<i>Falco peregrinus</i>	FCo	SS	Tundra, moorlands, steppe, and seacoasts, especially where there are suitable nesting cliffs, to mountains, open forested regions	No
Pileated woodpecker	<i>Dryocopus pileatus</i>	None	SC	Forest	No



TABLE D-2

SKAGIT COUNTY SPECIAL STATUS SPECIES^{1, 2}

Former Custom Plywood Mill
Anacortes, Washington

Common Name	Scientific Name	Status		Preferred Habitat	Preferred Habitat on Property
		Federal	State		
Birds (Continued)					
Purple martin	<i>Progne subis</i>	None	SC	Natural & artificial cavities over open water; open and partly open situations, frequently near water or around towns (where flying insects are abundant)	Yes
Spotted owl	<i>Strix occidentalis</i>	FT	SE	Forest and deep wooded canyons	No
Vaux's swift	<i>Chaetura vauxi</i>	None	SC	Mature forests but also forages and migrates over open country	No
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	FC	SC	Open woodland	No
Amphibians					
Columbia spotted frog	<i>Rana luteiventris</i>	None	SC	Highly aquatic; rarely found far from permanent quiet water; usually occurs at the grassy/sedgy margins of streams, lakes, ponds, springs, and marshes	No
Oregon spotted frog	<i>Rana pretiosa</i>	FC	SE	Grassy margins of streams, lakes, ponds, springs, and marshes	No
Western toad	<i>Bufo boreas</i>	FCo	SC	Various uplands habitats around ponds, lakes, reservoirs, and slow-moving rivers and streams	No
Invertebrates					
Johnson's hairstreak	<i>Mitoura johnsoni</i>	None	SC	Conifer forests	No
Valley silverspot	<i>Speyeria zerene bremnerii</i>	FCo	SC	Arctic-alpine tundra, subalpine glades, and mid-elevation roadsides and clearings	No
Plants					
Alpine azalea	<i>Loiseleuria procumbens</i>	None	T	Alpine slopes at elevations of 6,100 to 6,550 ft	No
Blunt-leaved pondweed	<i>Potamogeton obtusifolius</i>	None	S	Found submerged on banks and in 3 to 9 ft of shallow water, from 100 to 513 ft elevation	No



TABLE D-2

SKAGIT COUNTY SPECIAL STATUS SPECIES^{1, 2}

Former Custom Plywood Mill
Anacortes, Washington

Common Name	Scientific Name	Status		Preferred Habitat	Preferred Habitat on Property
		Federal	State		
Plants (Continued)					
Branching monita	<i>Montia diffusa</i>	None	S	Moist forests in the lowland and lower montane zones	No
Bristly sedge	<i>Carex comosa</i>	None	S	Marshes, lakeshores, and wet meadows.	No
California buttercup	<i>Ranunculus californicus</i>	None	T	Grows at elevation of 15 to 50 ft in open grassy areas, rocky slopes along the shore, and in rocky wooded areas	Yes
Canadian St. John's-wort	<i>Hypericum majus</i>	None	S	Grows along ponds, lakesides, or other low, wet places and is associated with riparian habitats	No
Common northern sweet grass	<i>Hierochloa odorata</i>	None	R1	Moist slopes, meadows, and stream banks from the foothills to sub-alpine elevations from 325 to 4,420 ft.	No
Curved woodrush	<i>Luzula arcuata</i>	None	S	Glacial moraines at elevations from 7,080 to 7,200 ft.	No
Golden paintbrush	<i>Castilleja levisecta</i>	LT	E	Open grasslands in the Puget Trough. Substrate is generally composed of glacial outwash or depositional material.	No
Long-styled sedge	<i>Carex stylosa</i>	None	S	Coastal regions and in shallow marshes, gravelly loam, streambanks, and moist meadows	No
Pink fawn-lily	<i>Erythronium revolutum</i>	None	S	Moist mineral soil in open or moderately shaded areas. Frequently described habitats include swampy western red cedar-lodgepole pine forests, light Sitka spruce woods on consolidated sand dunes, Sitka spruce-western hemlock forests in the duff layer, and in shaded river bottoms with mixed conifer-hardwood or pure hardwood thickets.	No
Poor sedge	<i>Carex magellanica ssp. irrigua</i>	None	S	Fens, bogs, shady wet meadows, shrub wetlands, and marshes, often growing in peat soil, at 1,640 to 7,000 ft elevation	No



TABLE D-2

SKAGIT COUNTY SPECIAL STATUS SPECIES^{1, 2}

Former Custom Plywood Mill
Anacortes, Washington

Common Name	Scientific Name	Status		Preferred Habitat	Preferred Habitat on Property
		Federal	State		
Plants (Continued)					
Pygmy saxifrage	<i>Saxifraga rivularis</i>	None	S	Occurs around basaltic crevices, granitic cliffs, and moss-covered detritus, and can also grow on vertical rock faces at elevations from 6,000 to 7,000 ft.	No
Soft-leaved willow	<i>Salix sessilifolia</i>	None	S	Found in lowland habitats: riparian forest, in dredge spoils, and on a silty bank at the upper edge of an intertidal zone	No
Teacher's sedge	<i>Carex praeceptorum</i>	None	R1	Sphagnum bog and very wet shores around lakes from 650 to 6,320 feet	No
Water lobelia	<i>Lobelia dortmanna</i>	None	T	Shallow water at the margins of lakes and ponds	No

Notes

1. WDFW (Washington Department of Fish and Wildlife), 2008, Priority Habitat and Species. <http://wdfw.wa.gov/hab/phslist.htm> (accessed on May 10, 2010).
2. WDNR (Washington Department of Natural Resources), 2010, Washington Natural Heritage Program - Washington Rare Plant Species by County. <http://www1.dnr.wa.gov/nhp/refdesk/lists/plantsxco/countyindex.html> (accessed on May 7, 2010).

Abbreviations

- E = Endangered. In danger of becoming extinct or extirpated from the state
- FC = Federal candidate species
- Fco = Federal species of concern
- FE = Federally endangered species
- FT = Federally threatened species
- LT = Federally listed as Threatened, likely to become endangered
- R1 = Review group 1. Of potential concern but needs more field work to assign another rank
- S = Sensitive. Vulnerable or declining and could become Endangered or Threatened in the state
- SC = State candidate species
- SE = State endangered species
- SS = State sensitive species
- ST = State threatened species
- T = Threatened, likely to become endangered in the state

TABLE D-3

SURVIVAL DATA FOR 14-DAY EARTHWORM BIOASSAY

Former Custom Plywood Mill
Anacortes, Washington

TPH soil concentration (mg/kg)	Mean Percent Survival	Standard Deviation	Statistical Comparison to Control ¹
0 (Control)	90.0	10.0	NA
590	80.0	10.0	NS
4,700	86.7	15.3	NS
5,100	93.3	11.5	NS
5,600	93.3	11.5	NS
8,500	90.0	10.0	NS

Note

1. NA = not applicable.
NS = not significant at significance level of $p < 0.05$.

Abbreviations

mg/kg = milligrams per kilogram
TPH = total petroleum hydrocarbons

TABLE D-4

ANALYTICAL RESULTS FOR METALS AND PAHs IN SITE SOIL USED TO PREPARE BIOASSAY TESTING MEDIA AND ESTIMATED CONCENTRATIONS IN THE LOWEST DILUTION THAT PASSED EACH BIOASSAY

Former Custom Plywood Mill
Anacortes, Washington

Analyte	Undiluted Site Soil Concentrations (mg/kg) Used for Preparing Bioassay Tests ¹			Estimated Concentration (mg/kg) for Lowest Dilution Passing:	
	Sample 1	Sample 2	Mean	Earthworm Bioassay ^{2,3}	Lettuce Bioassay ^{3,4}
Metals					
Antimony	8.3 U	6.2 U	6.2 U	0.816	0.0818
Arsenic	8.3 U	6.2 U	6.2 U	0.816	0.0818
Beryllium	0.83 U	0.62 U	0.62 U	0.082	0.0082
Cadmium	0.83 U	0.62 U	0.62 U	0.082	0.0082
Chromium	18	27	22.5	2.960	0.2970
Copper	37	47	42	5.526	0.5544
Lead	40	35	37.5	4.934	0.4950
Mercury	0.030	0.037	0.0335	0.004	0.0004
Nickel	12	19	15.5	2.039	0.2046
Selenium	0.83 U	0.62 U	0.62 U	0.082	0.0082
Silver	0.21 U	0.15 U	0.15 U	0.020	0.0020
Thallium	0.17 U	0.12 U	0.12 U	0.016	0.0016
Zinc	85	110	97.5	12.828	1.2870
PAHs					
1-Methylnaphthalene	0.011 U	0.0082 U	0.0082 U	0.001	0.0001
2-Methylnaphthalene	0.011 U	0.0086	0.0086	0.001	0.0001
Acenaphthene	0.011 U	0.0082 U	0.0082 U	0.001	0.0001
Acenaphthylene	0.089	0.031	0.06	0.008	0.0008
Anthracene	0.07	0.03	0.05	0.007	0.0007
Benzo[a]anthracene	0.15	0.026	0.088	0.012	0.0012
Benzo[a]pyrene	0.3	0.077	0.1885	0.025	0.0025
Benzo[b]fluoranthene	0.35	0.11	0.23	0.030	0.0030
Benzo[g,h,i]perylene	0.34	0.15	0.245	0.032	0.0032
Benzo[k]fluoranthene	0.1	0.029	0.0645	0.008	0.0009
Chrysene	0.22	0.06	0.14	0.018	0.0018
Dibenz[a,h]anthracene	0.065	0.026	0.0455	0.006	0.0006
Fluoranthene	0.38	0.088	0.234	0.031	0.0031
Fluorene	0.014	0.0082 U	0.014	0.002	0.0002
Indeno(1,2,3-c,d)pyrene	0.26	0.12	0.19	0.025	0.0025
Naphthalene	0.021	0.015	0.018	0.002	0.0002
Phenanthrene	0.22	0.066	0.143	0.019	0.0019
Pyrene	0.4	0.11	0.255	0.034	0.0034

Notes

1. U indicates concentration below analytical reporting limit.
2. Earthworm Bioassay: Mortality not significantly greater than control at all tested concentrations. The estimated concentrations assume that the artificial soil used to dilute site soil for the bioassay tests does not contain metals or PAHs.
3. All estimated soil constituent concentrations are below applicable MTCA screening levels for plants, soil biota, and wildlife.
4. Lettuce Bioassay: Mean dry weight was reduced in all but the lowest TPH soil concentration tested. The estimated concentrations assume that the artificial soil used to dilute site soil for the bioassay tests does not contain metals or PAHs.

Abbreviations

g = grams

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act

PAHs = Polycyclic Aromatic Hydrocarbons

TABLE D-5

SURVIVAL DATA FOR 14-DAY LETTUCE BIOASSAY

Former Custom Plywood Mill
Anacortes, Washington

TPH Soil Concentration (mg/kg)	Mean Percent Survival	Standard Deviation	Statistical Comparison to Control ¹
0 (Control)	96.7	4.6	NA
1,700	98.3	3.7	NS
1,900	93.3	7.0	NS
4,300	95.0	7.5	NS
6,300	91.7	11.8	NS
9,800	93.3	7.0	NS

Notes

1. NA = not applicable

NS = not significant at significance level of $p < 0.05$

Abbreviations

mg/kg = milligrams per kilogram

TPH = total petroleum hydrocarbons

TABLE D-6

BIOMASS RESULTS FOR 14-DAY LETTUCE BIOASSAY

Former Custom Plywood Mill

Anacortes, Washington

TPH Soil Concentration (mg/kg)	Mean Biomass (mg dwt)	Standard Deviation	Statistical Comparison to Control ¹
0 (Control)	2.2	0.2	NA
1,700	1.99	0.3	NS
1,900	1.76	0.2	*
4,300	1.61	0.2	*
6,300	1.65	0.2	*
9,800	1.64	0.1	*

Notes

1. NA = not applicable

NS = not significant at significance level of $p < 0.05$

* = significantly lower biomass than the control ($p < 0.05$)

Abbreviations

mg dwt - milligrams dry weight

mg/kg = milligrams per kilogram

TPH = total petroleum hydrocarbons

TABLE D-7

**PROPOSED SCREENING VALUES FOR TEE COPCs
IN SURFICIAL SOIL**

Former Custom Plywood Mill
Anacortes, Washington

Concentrations in milligrams per kilogram (mg/kg)

Chemical	Plants	Soil Biota	Wildlife
Metals			
Antimony	5	NA	NA
Arsenic (III)	NA	NA	7
Chromium (total)	42	42	67
Copper	100	50	217
Lead	50	500	118
Mercury (inorganic)	0.3	0.1	5.5
Nickel	30	200	980
Selenium	1	70	0.3
Zinc	86	200	360
PCBs			
Total PCBs	40	NA	0.65
TPHs			
Diesel Range Organics	1,700	8,500	6,000
Total Dioxins (TEQ)	NA	NA	2.00E-06

Abbreviations

COPCs = chemicals of potential ecological concern

NA = not available

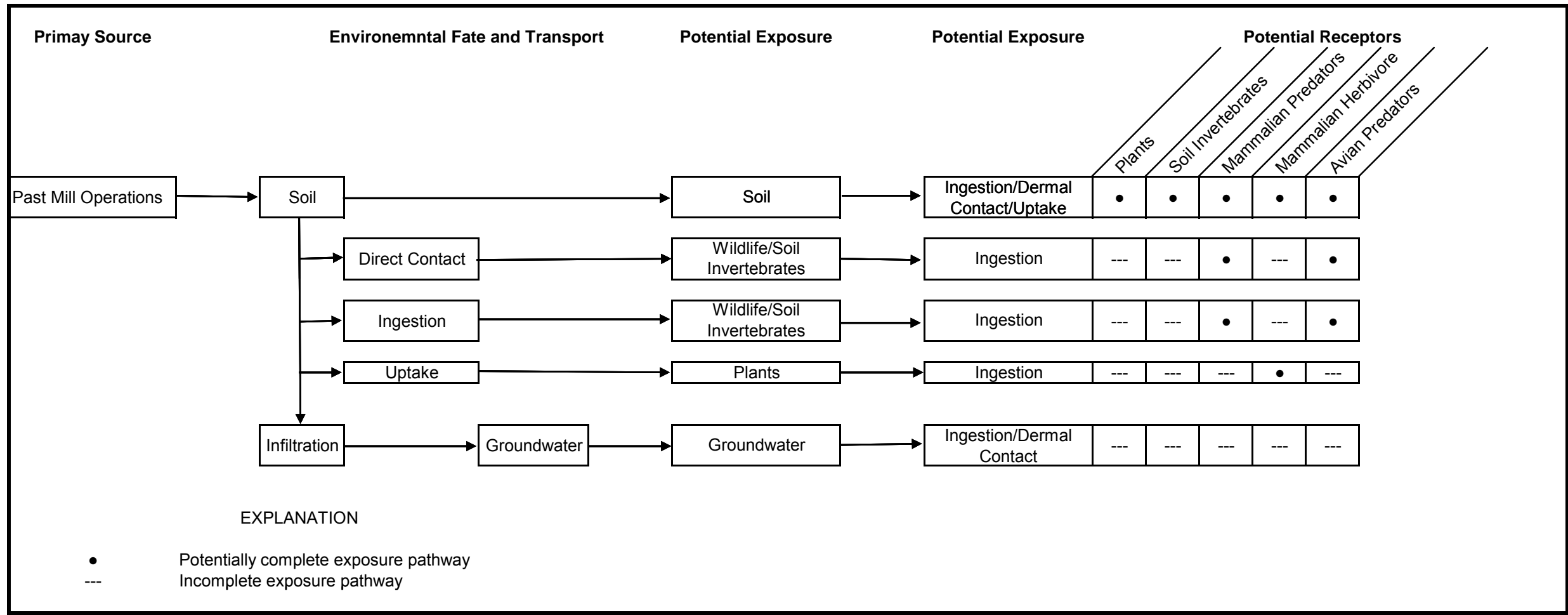
PCBs = polychlorinated biphenyls

TEE = terrestrial ecological evaluation

TEQ = toxicity equivalent

TPHs = total petroleum hydrocarbons

FIGURES



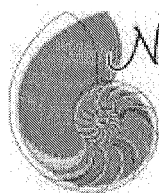
TERRESTRIAL ECOLOGICAL EVALUATION CONCEPTUAL SITE MODEL		
Former Custom Plywood Mill Site Anacortes, Washington		
By: RES	Date 05/05/10	Project No. 10654.000
AMEC Geomatrix		Figure D-1

Insert File name here



ATTACHMENT D-1

Bioassay Report



Nautilus Environmental, LLC

Soil Toxicity Evaluation

**Former Custom Plywood Project Site, Anacortes, WA
Final Report**

Date: September 10, 2009

Submitted to:

AMEC Geomatrix
3500 - 188th Street SW, Suite 600
Lynnwood, WA 98037

Washington Laboratory
5009 Pacific Hwy East
Suite 2
Tacoma, WA 98424

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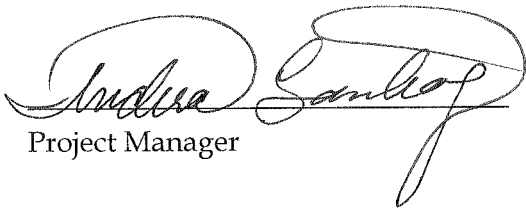
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SIGNATURE PAGE



Project Manager

This report has been prepared based on data and or samples provided by our client and the results of this study are for their sole benefit. Any reliance on the data by a third party is at the sole and exclusive risk of that party.

1.0 INTRODUCTION

Laboratory toxicity testing was conducted on a soil sample collected from a site in Anacortes, Washington as part of a site-specific terrestrial ecological evaluation (TEE) under The Model Toxics Control Act (MTCA). The specific contaminant of concern for the bioassay component of the TEE was total petroleum hydrocarbons (TPH). A soil sample was collected from an area with elevated TPH and diluted with artificial soil in the laboratory to obtain a range of TPH concentrations. Two soil toxicity tests were conducted: a 14-day earthworm survival test with the lumbricid earthworm *Eisenia fetida* and a 14-day early seedling growth test using the butter crunch lettuce seed *Lactuca sativa*. Testing was conducted between August 11 and August 27, 2009. Test procedures followed methods published by Washington State Department of Ecology for the Toxics Cleanup Program

2.0 METHODS

2.1 Samples

Soil sampling was conducted by AMEC personnel on August 4, 2009. The sample was collected into 5-gallon bucket, labeled, and delivered to the laboratory on August 10, 2009.

Upon receipt at the Nautilus laboratory, the container was opened and the contents verified against information provided on the chain-of-custody forms (COC). Sample temperature was measured and recorded on the COC. Sample was stored at $4 \pm 1^{\circ}\text{C}$ in the dark during holding time.

2.2 Soil preparation

In order to confirm the concentration of TPH in the source soil, a subsample was collected by AMEC Geomatrix and sent to OnSite Environmental for analysis.

The plant and earthworm bioassays were conducted using a dilution series of contaminated soil mixed with artificial soil. The dilution series was based on analytical results of 76,000 mg/kg of TPH in the source soil. Soil dilutions were prepared by diluting the source soil with artificial soil targeting the dilution series requested by the client, consisting of 10000, 7500, 5000, 2500, and 1000 mg/kg TPH.

The moisture fraction of client soil was 172 percent. In order to compensate for this high moisture content, we multiplied the site soil dry weight needed by 2.72 in order to obtain wet weights that would bring TPH levels close to the concentrations required by the dilution series.

A subsample of each concentration was collected and sent to On-Site Environmental for analysis of TPH. Analytical results are provided in Appendix D.

2.3 Earthworm (*Eisenia fetida*) 14-day survival test

Eisenia fetida (earthworms) were exposed to test soils for 14 days to determine the effects of site soil on survival. The tests were conducted according to methods presented in Washington State Department of Ecology (WDOE) Publication No. 96-327 (1996), and are summarized in Table 1.

E. fetida were obtained from Aquatic Research Organisms (Hampton, NH). The organisms were transported in a box lined with paper with the earthworms in a paper sack containing peat moss as a substrate. Upon arrival at the laboratory, observations of animal condition were made. The worms were then placed in a 20-L glass aquarium and kept moist. The tank was held at $22\pm 2^{\circ}\text{C}$ and monitored daily.

Test chambers consisted of one-liter glass jars with perforated lids to allow air exchange. The test chambers were randomized and placed in an environmental chamber maintained at $22\pm 2^{\circ}\text{C}$ under constant light. Three replicates were included per site with one additional replicate used for soil quality parameter measurements at points during the test period.

Each test chamber received 200 g dry weight of soil. The percent moisture of each test soil was calculated and used to determine the wet weight of sample to add to provide 200 g dry weight per test chamber.

Once site and artificial soils were thoroughly mixed, sufficient volumes of deionized (DI) water were added to hydrate the soils to an appropriate moisture level that would match the friability (look and feel) of the artificial soil, as dictated by WDOE protocols. A summary of hydration levels achieved in the test soils is provided in Appendix B with the laboratory bench sheets.

Initial measurements of soil pH and conductivity were measured by mixing a subsample of the soils with an equal amount of DI, shaken thoroughly, and allowed to sit for 30 minutes. The pH and conductivity were then measured in the overlying water after the soil had settled. Ten worms (totaling 3.0 to 6.0 g) were randomly added to each test chamber after confirmation that

the correct number of test organisms was segregated and in healthy condition. The worms were not fed during the test period.

The temperature of the test chambers was monitored daily. Abnormal conditions or unusual animal behavior, if observed, were noted on the seventh and final day of testing. At test termination, each replicate was emptied into a glass dish and gently sorted. Surviving worms were counted and recorded on a data sheet.

A soil control (negative control) and a 2-chloroacetamide reference toxicant test (positive control) were conducted in conjunction with the test soil to ensure that organisms were not impacted by stresses other than contamination in the test material.

Table 1. Summary of test conditions for the 14-day *Eisenia fetida* test.

Test start date	8/13/2009; 1600h
Test end date	8/27/2009; 1420h
Test organism	<i>Eisenia fetida</i>
Test organism source	ARO, Hampton, NH
Organism age at test initiation	>2 months, fully clitellated
Feeding	No feeding during test
Test chamber	1 liter glass jar
Soil volume	200 g dry weight
Water source for soil hydration	Deionized water (DI)
Target soil moisture content	35 to 45%
Control soil	70% sand, 20% Kaolin clay, 10% peat, 0.45% CaCO ₃
Number of organisms/replicate	10
Number of replicates/concentration	3
Test temperature	22 ± 2°C
Illumination	Continuous
Test acceptability criterion for laboratory control (negative control)	≥90% survival organisms
Reference toxicant (positive control)	2-Chloroacetamide

2.4 Early seedling (*Lactuca sativa*) 14-day survival and growth test

Butter crunch lettuce seeds (*Lactuca sativa*) were used to determine plant viability in the test soils. The seedling germination and growth test was conducted in accordance with WDOE Publication No. 96-324 (1996), modified according to Nautilus SOP # T-1550. A summary of test conditions is outlined in Table 2.

L. sativa seeds were obtained from Territorial Seed Company (Cottage Grove, Oregon). The seeds were sorted by size and stored in a dry container at $4 \pm 1^\circ\text{C}$ until used for testing. Tests were conducted in an environmental chamber maintained between 22 and 25°C under a 16 hour light/8 hour dark lighting schedule. Samples were prepared as described in Section 2.2 above.

Test chambers consisted of 36-cell (6x6) seedling starter trays with drainage holes. Each individual pot in the tray was 9 centimeters (cm) by 2.5 cm wide and 6 cm deep. Clear plastic dome lids were used to cover the trays during the duration of the test to maintain adequate soil moisture and at least 50 percent relative humidity. Five replicates were included for each concentration with one additional replicate used for soil quality parameter measurements at points during the test period. Each replicate was randomized within a block so that replicates were evenly spaced throughout the trays under the light banks.

Each concentration of test soil was homogenized and 50 g was distributed to each test chamber according to the randomization scheme. Initial soil pH measurements were obtained by mixing a subsample of the soil dilutions with an equal amount of DI, shaken thoroughly, and allowed to sit for 30 minutes. The pH was then measured in the overlying water after the soil had settled. Twelve seeds were distributed into each test chamber and covered with a light layer of the soil. The seeds were then gently watered to field capacity using DI water in a spray bottle.

Soil temperature and plant observations were recorded daily and light intensity was measured at the beginning, middle and end of the test. Soils were watered twice daily to maintain constant moisture. No nutrient amendments were added to the soils. Test chambers were rotated twice daily during the test to ensure that all portions of each tray received similar amounts of light.

The test was terminated on day 14, by first counting the number of seedlings germinated in each test chamber. The above-ground portion of the seedlings from each replicate was then collected using a sharp blade and placed in tared weigh boats. Wet weights were recorded for each replicate before placing the pans in an oven for drying at $70 \pm 5^\circ\text{C}$ for 24 hours. After 24 hours, the dried plants were placed in a dessicator, allowed to cool, and then weighed.

A soil control (negative control) and a boric acid reference toxicant test (positive control) were conducted with the same batch of seeds to ensure that *L. sativa* was not impacted by stresses other than contamination in the test material.

Table 2. Summary of test conditions for the 14-day germination test with *Lactuca sativa*

Test start date	8/11/2009; 1630
Test end date	8/25/2009; 1420
Test organism	<i>Lactuca sativa</i> (butter crunch lettuce)
Test organism source	Territorial Seed Company, Cottage Grove, OR
Test chamber	36-cell seedling trays with domed cover
Test soil weight	50 g dry weight
Water source for hydration	Deionized water (DI)
Control soil	70% sand, 20% Kaolin clay, 10% peat, 0.4% CaCO ₃
Number of organisms per chamber	12
Number of replicates/concentration	5
Test temperature	20 to 30°C
Illumination	16 hours light/8 hours dark
Test acceptability criterion for laboratory control (negative control)	Mean control germination ≥ 90%
Reference toxicant (positive control)	Boric acid

3.0 RESULTS

3.1 *Eisenia fetida*

Results of the toxicity test conducted using *E. fetida* are provided in Table 3. The table shows mean percent survival as well as results of the statistical analyses comparing response in the artificial soil and the actual concentrations of TPH in the diluted source soil. Detailed results of the soil toxicity test, soil quality measurements recorded during the test, and the reference toxicant test results are provided in Appendices A, B, and C, respectively. Copies of the chain-of-custody form are in Appendix E.

Mean survival in 8500 mg/kg TPH concentration, was 90 percent. There was no significant toxicity in any concentration relative to artificial soil results. The concentration of elevated TPH estimated to be lethal to 50 percent of the organisms was >8500 mg/kg TPH.

There was no avoidance behavior observed in any concentration.

Table 3. Survival data for the *Eisenia fetida* test

Target Concentration of TPH in Source Soil (mg/kg)	Actual concentration of TPH (mg/kg)	Mean Percent Survival	Standard Deviation	NOEC ^a	LOEC ^b LC ₅₀ ^c (mg/kg TPH)	
					LOEC ^b	LC ₅₀ ^c
0 (Laboratory Soil)	0	90.0	10.0	8500	>8500	>8500
1000	590	80.0	10.0			
2500	5600	93.3	11.5			
5000	5100	93.3	11.5			
7500	4700	86.7	15.3			
10000	8500	90.0	10.0			

^a No Observed Effect Concentration, ^b Lowest Observed Effect Concentration, ^c Lethal Concentration for 50% of test organisms

3.2 *Lactuca sativa*

No effect on survival of *L. sativa* seedlings was observed in any of the test soil concentrations during the 14-day exposure period. Results are shown in Table 4 and are also provided in Appendix A.

Results for growth are provided in Table 5 and show that mean dry weight was reduced in all but the lowest site soil concentrations compared to laboratory control data. Mean dry weight was significantly reduced (with 95% confidence) in concentrations of TPH at 1900 mg/kg and above. The concentration estimated to inhibit growth in 50 percent of the organisms (IC₅₀) was greater than the highest concentration tested.

Table 4. Survival data for the *Lactuca sativa* test

Target Concentration of TPH in Source Soil (mg/kg)	Actual concentration of TPH (mg/kg)	Mean Percent Survival	Standard Deviation	NOEC ^a	LOEC ^b LC ₅₀ ^c (mg/kg TPH)	
					LOEC ^b	LC ₅₀ ^c
0 (Laboratory Soil)	0	96.7	4.6	9800	>9800	9800
1000	1700	98.3	3.7			
2500	1900	93.3	7.0			
5000	4300	95.0	7.5			
7500	6300	91.7	11.8			
10000	9800	93.3	7.0			

^a No Observed Effect Concentration, ^b Lowest Observed Effect Concentration, ^c Lethal Concentration for 50% of test organisms

Table 5. Mean dry weight data for the *Lactuca sativa* test

Target Concentration of TPH in Source Soil (mg/kg)	Measured concentration of TPH (mg/kg)	Mean Dry Weight per Surviving Seedling (mg)	Standard Deviation	NOEC ^a	LOEC ^b	IC ₅₀ ^c
					(mg/kg TPH)	
0 (Laboratory Soil)	0	2.20	0.2	1700	1900	>9800
1000	1700	1.99	0.3			
2500	1900	1.76 ^d	0.2			
5000	4300	1.61 ^d	0.2			
7500	6300	1.65 ^d	0.2			
1000	9800	1.64 ^d	0.1			

^a No Observed Effect Concentration, ^b Lowest Observed Effect Concentration, ^c Lethal Concentration for 50% of test organisms, ^d Significantly lower than control

4.0 QA/QC

The *E. fetida* and *L. sativa* tests met acceptability criteria for control performance with greater than 90 percent mean control survival in both tests. All soil quality parameters remained within the specified ranges throughout the test period with the exception of soil moisture content in the highest concentrations of the *E. fetida* test. Target moisture content is 35 to 45 percent. Actual moisture content in the three highest concentrations was 47 to 65 percent. Friability was similar to lower concentrations and there was no effect on survival, therefore the deviation is not expected to have affected the results.

Results of reference toxicant tests conducted with the test organisms are provided in Table 6. Results for the tests conducted with *E. fetida* and *L. sativa* fell within the acceptable range of mean \pm two standard deviations for historical data generated by this laboratory. Thus, these data indicate that the test organisms appeared to have been of an appropriate degree of sensitivity.

Table 6. Reference toxicant test results.

Species	Date Initiated	Endpoint	Toxicant	EC50 (mg/kg)	95% Confidence Interval	Acceptable Range (mean \pm 2 SD)
<i>E. fetida</i>	8/13/2009	14d Survival	2-chloroacetamide	55.2	44.7 - 63.9	0 - 80.9
<i>L. sativa</i>	8/11/2009	14d Survival	Boric acid	217	198 - 238	189 - 259
<i>L. sativa</i>	8/11/2009	14d Growth	Boric acid	138	113 - 152	113 - 156

5.0 REFERENCES

- American Society of Testing and Materials (ASTM). 1999. Standard guide for conducting terrestrial plant toxicity tests. ASTM designation E1963-98.
- American Society of Testing and Materials (ASTM). 1997. Standard guide for conducting laboratory soil toxicity or bioaccumulation tests with the lumbricid earthworm *Eisenia fetida*. ASTM designation E1676-97.
- American Society of Testing and Materials (ASTM). 1994. Standard practice for conducting early seedling growth tests. ASTM designation E1598-94.
- Tidepool Scientific Software. 2000-2007. CETIS Comprehensive Environmental Toxicity Information System Software, Version 1.6.3revG.
- Washington State Department of Ecology (WDOE). 1996. Earthworm bioassay protocol for soil toxicity screening. WDOE Environmental Investigations and Laboratory Services Program Publication No. 96-327.
- Washington State Department of Ecology (WDOE). 1996. Early seedling growth protocol for soil toxicity screening. WDOE Environmental Investigations and Laboratory Services Program Publication No. 96-324.

APPENDIX A – Summary of Results

**Appendix Table A-1. *Eisenia fetida* 14-Day Survival
 Custom Plywood Site Project
 Test Initiated August 13, 2009**

Concentration (actual)	Rep	# Alive	% Survival	Mean % Survival	St. Dev.
Laboratory Control	1	10	100	90.0	10.0
	2	8	80.0		
	3	9	90.0		
590 mg/kg TPH	1	8	80.0	80.0	10.0
	2	7	70.0		
	3	9	90.0		
4700 mg/kg TPH	1	7	70.0	86.7	15.3
	2	10	100		
	3	9	90.0		
5100 mg/kg TPH	1	10	100	93.3	11.5
	2	10	100		
	3	8	80.0		
5600 mg/kg TPH	1	8	80.0	93.3	11.5
	2	10	100		
	3	10	100		
8500 mg/kg TPH	1	8	80.0	90.0	10.0
	2	9	90.0		
	3	10	100		

**Appendix Table A-2: *Lactuca sativa* 14-day Survival and Growth
 Custom Plywood Site Project
 Test Initiated August 11, 2009**

Concentration (actual)	Survival					Growth						
	Rep	# Alive	% Survival	Mean % Survival	St. Dev.	Tare Weight (mg)	Total Weight (mg)	Total Seeding Weight (mg)	Growth per Seeding (mg)	Mean Growth per Org (mg)	St. Dev.	
Laboratory Control	1	11	91.7			1826.25	1853.20	27.0	2.45			
	2	12	100			1589.90	1615.35	25.4	2.12			
	3	12	100	96.7	4.6	1602.98	1630.13	27.2	2.26			
	4	12	100			1823.34	1847.10	23.8	1.98			
	5	11	91.7			1907.49	1931.74	24.3	2.20	2.20	0.2	
1700 mg/kg TPH	1	12	100			1827.43	1847.63	20.2	1.68			
	2	12	100			1812.04	1834.09	22.1	1.84			
	3	12	100	98.3	3.7	1775.77	1805.12	29.3	2.45			
	4	12	100			1772.88	1795.83	22.9	1.91			
	5	11	91.7			1728.37	1751.37	23.0	2.09	1.99	0.3	
1900 mg/kg TPH	1	10	83.3			1599.60	1614.72	15.1	1.51			
	2	12	100			1736.12	1757.82	21.7	1.81			
	3	11	91.7	93.3	7.0	1737.48	1755.60	18.1	1.65			
	4	11	91.7			1616.52	1637.86	21.3	1.94			
	5	12	100			1631.08	1654.02	22.9	1.91	1.76	0.2	
4300 mg/kg TPH	1	10	83.3			1646.72	1660.58	13.9	1.39			
	2	11	91.7			1557.86	1577.05	19.2	1.74			
	3	12	100	95.0	7.5	1686.25	1709.13	22.9	1.91			
	4	12	100			1651.03	1670.34	19.3	1.61			
	5	12	100			1847.35	1863.98	16.6	1.39	1.61	0.2	
6300 mg/kg TPH	1	10	83.3			1781.48	1796.42	14.9	1.49			
	2	12	100			1628.82	1649.37	20.6	1.71			
	3	12	100	91.7	11.8	1548.70	1571.02	22.3	1.86			
	4	12	100			1606.52	1627.94	21.4	1.79			
	5	9	75.0			1496.90	1509.60	12.7	1.41	1.65	0.2	
9800 mg/kg TPH	1	11	91.7			1679.05	1697.55	18.5	1.68			
	2	11	91.7			1801.63	1821.39	19.8	1.80			
	3	12	100	93.3	7.0	1652.73	1671.34	18.6	1.55			
	4	12	100			1594.59	1613.22	18.6	1.55			
	5	10	83.3			1449.49	1465.70	16.2	1.62	1.64	0.1	

APPENDIX B - Statistical Analyses and Laboratory Bench Sheets

Eisenia fetida (earthworm)

CETIS Summary Report

Report Date: 28 Aug-09 12:33 (p 1 of 1)
 Link/Link Code: 20-3959-6235/0908-T026

Eisenia 14-d Survival Soil Test	Nautilus Environmental WA
--	----------------------------------

Test Run No: 06-9217-4952	Test Type: Survival	Analyst: Indira Santiago
Start Date: 13 Aug-09 16:00	Protocol: WDOE 96-327	Diluent: Not Applicable
Ending Date: 27 Aug-09 14:20	Species: Eisenia fetida	Brine: Not Applicable
Duration: 13d 22h	Source: Aquatic Research Organisms, NH	Age: 2mo

Sample No: 06-4636-8156	Code: S09-027	Client: AMEC
Sample Date: 04 Aug-09 10:00	Material: Soil Waste	Project:
Receive Date: 10 Aug-09 10:25	Source: Custom Plywood RI/FS	
Sample Age: 9d 6h (3.2 °C)	Station:	

Comparison Summary						
Analysis No	Endpoint	NOEL	LOEL	TOEL	PMSD	Method
06-9791-2557	Survival Rate	8500	> 8500	N/A	30.5%	Dunnett's Multiple Comparison Test

Point Estimate Summary						
Analysis No	Endpoint	Effect-%	Conc-mg/k	95% LCL	95% UCL	Method
14-9666-1541	Survival Rate	25	> 8500	N/A	N/A	Linear Interpolation (ICPIN)
		50	> 8500	N/A	N/A	

Survival Rate Summary											
Conc-mg/kg	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background S	3	0.9	0.863	0.937	0.8	1	0.0183	0.1	11.1%	0.0%
590		3	0.8	0.763	0.837	0.7	0.9	0.0183	0.1	12.5%	11.1%
4700		3	0.867	0.81	0.924	0.7	1	0.0279	0.153	17.6%	3.7%
5100		3	0.933	0.89	0.976	0.8	1	0.0211	0.115	12.4%	-3.7%
5600		3	0.933	0.89	0.976	0.8	1	0.0211	0.115	12.4%	-3.7%
8500		3	0.9	0.863	0.937	0.8	1	0.0183	0.1	11.1%	0.0%

Survival Rate Detail					
Conc-mg/kg	Control Type	Rep 1	Rep 2	Rep 3	
0	Background Soi	1	0.8	0.9	
590		0.8	0.7	0.9	
4700		0.7	1	0.9	
5100		1	1	0.8	
5600		0.8	1	1	
8500		0.8	0.9	1	

CETIS Analytical Report

Report Date: 28 Aug-09 12:33 (p 1 of 1)
 Link/Link Code: 20-3959-6235/0908-T026

Eisenia 14-d Survival Soil Test Nautilus Environmental WA

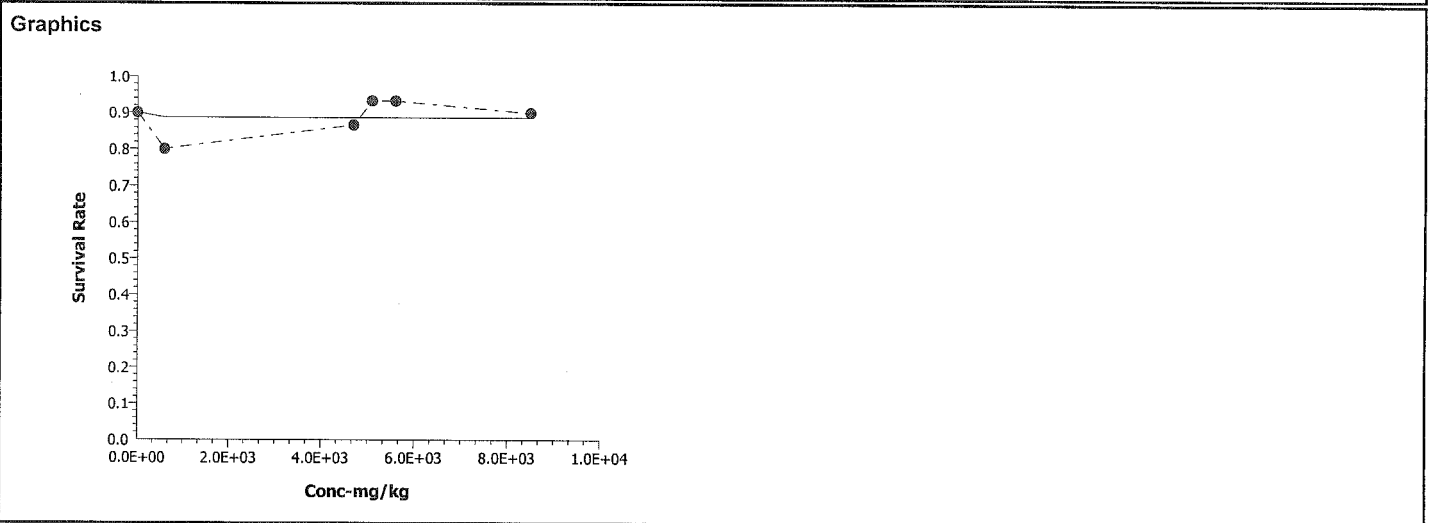
Analysis No: 14-9666-1541 Endpoint: Survival Rate CETIS Version: CETISv1.6.3
 Analyzed: 28 Aug-09 12:32 Analysis: Linear Interpolation (ICPIN) Official Results: Yes

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Point Estimates			
Effect-%	Conc-mg/k	95% LCL	95% UCL
25	> 8500	N/A	N/A
50	> 8500	N/A	N/A

Survival Rate Summary			Calculated Variate(A/B)								
Conc-mg/k	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Background Soil	3	0.9	0.8	1	0.0183	0.1	11.1%	0.0%	27	30
590		3	0.8	0.7	0.9	0.0183	0.1	12.5%	11.1%	24	30
4700		3	0.867	0.7	1	0.0279	0.153	17.6%	3.7%	26	30
5100		3	0.933	0.8	1	0.0211	0.115	12.4%	-3.7%	28	30
5600		3	0.933	0.8	1	0.0211	0.115	12.4%	-3.7%	28	30
8500		3	0.9	0.8	1	0.0183	0.1	11.1%	0.0%	27	30

Survival Rate Detail				
Conc-mg/k	Control Type	Rep 1	Rep 2	Rep 3
0	Background Soil	1	0.8	0.9
590		0.8	0.7	0.9
4700		0.7	1	0.9
5100		1	1	0.8
5600		0.8	1	1
8500		0.8	0.9	1



CETIS Analytical Report

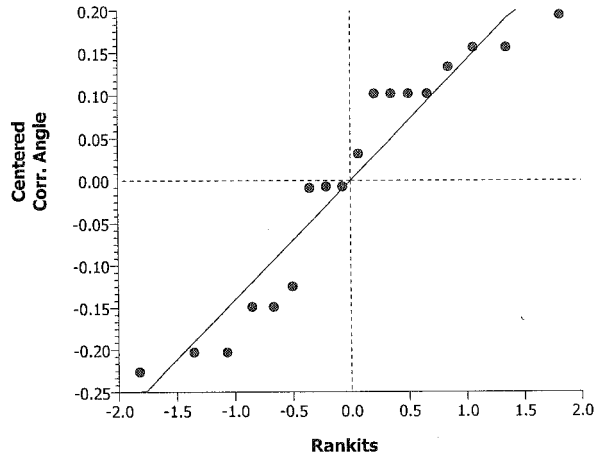
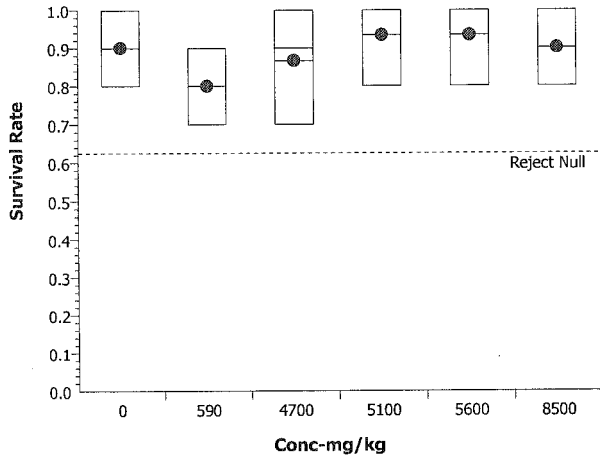
Report Date: 28 Aug-09 12:33 (p 1 of 2)
 Link/Link Code: 20-3959-6235/0908-T026

Eisenia 14-d Survival Soil Test								Nautilus Environmental WA			
Analysis No: 06-9791-2557		Endpoint: Survival Rate			CETIS Version: CETISv1.6.3						
Analyzed: 28 Aug-09 12:32		Analysis: Parametric-Control vs Treatments			Official Results: Yes						
Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD			
Angular (Corrected)		C > T	Not Run	8500	>8500	N/A	0.0118	30.5%			
Dunnett's Multiple Comparison Test											
Control	vs	Conc-mg/kg	Test Stat	Critical	MSD	P-Value	Decision(5%)				
Background Soil		590	1.02	2.5	0.344	0.4170	Non-Significant Effect				
		4700	0.281	2.5	0.344	0.7380	Non-Significant Effect				
		5100	-0.395	2.5	0.344	0.9230	Non-Significant Effect				
		5600	-0.395	2.5	0.344	0.9230	Non-Significant Effect				
		8500	0	2.5	0.344	0.8330	Non-Significant Effect				
ANOVA Table											
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)					
Between	0.0787606	0.0157521	5	0.555	0.7320	Non-Significant Effect					
Error	0.3404459	0.0283705	12								
Total	0.4192064	0.0441226	17								
ANOVA Assumptions											
Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)						
Variances	Bartlett Equality of Variance	0.484	15.1	0.9930	Equal Variances						
Distribution	Shapiro-Wilk Normality	0.9		0.0565	Normal Distribution						
Survival Rate Summary											
Conc-mg/kg	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background Soi	3	0.9	0.862	0.938	0.8	1	0.0186	0.1	11.1%	0.0%
590		3	0.8	0.762	0.838	0.7	0.9	0.0186	0.1	12.5%	11.1%
4700		3	0.867	0.809	0.925	0.7	1	0.0284	0.153	17.6%	3.7%
5100		3	0.933	0.889	0.977	0.8	1	0.0214	0.115	12.4%	-3.7%
5600		3	0.933	0.889	0.977	0.8	1	0.0214	0.115	12.4%	-3.7%
8500		3	0.9	0.862	0.938	0.8	1	0.0186	0.1	11.1%	0.0%
Angular (Corrected) Transformed Summary											
Conc-mg/kg	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background Soi	3	1.26	1.2	1.31	1.11	1.41	0.0283	0.153	12.1%	0.0%
590		3	1.12	1.07	1.16	0.991	1.25	0.024	0.129	11.6%	11.2%
4700		3	1.22	1.14	1.3	0.991	1.41	0.0394	0.212	17.4%	3.08%
5100		3	1.31	1.24	1.38	1.11	1.41	0.0327	0.176	13.4%	-4.32%
5600		3	1.31	1.24	1.38	1.11	1.41	0.0327	0.176	13.4%	-4.32%
8500		3	1.26	1.2	1.31	1.11	1.41	0.0283	0.153	12.1%	0.0%

Eisenia 14-d Survival Soil Test Nautilus Environmental WA

Analysis No: 06-9791-2557 Endpoint: Survival Rate CETIS Version: CETISv1.6.3
Analyzed: 28 Aug-09 12:32 Analysis: Parametric-Control vs Treatments Official Results: Yes

Graphics



14-Day Soil Observations Nautilus Environmental

Client: AMEC
 Sample ID: B-2-0809

Test No.: 908-1026
 Species: Eisenia foetida
 Date: 8/20/09

Conc. or Sample	Cont. #	Rep. #	Comments
CON	13	1	NORMA
	14	2	NORMA
	3	3	NORMA
1	1	1	two worms emerging, not moving - possibly dead?
	16	2	NORMA
	15	3	NORMA
2.5	8	1	NORMA
	6	2	NORMA
	12	3	NORMA
5	4	1	NORMA
	13	2	NORMA
	5	3	slime in soil - dead worm?
7.5	2	1	NORMA
	10	2	NORMA
	17	3	NORMA
10	6	1	NORMA
	9	2	NORMA
	7	3	NORMA
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
Tech. Initials:			ME

Washington Laboratory - 5009 Pacific Hwy. E., Suite 2. Tacoma, WA 98424.

QA: 105

14-Day Soil Observations Nautilus Environmental

Client: AMEC
 Sample ID: B-2-0809

Test No.: 0908-T026
 Test Species: Eisenia foetida
 Date: 8/27/09

Conc. or Sample	Cont. #	Rep. #	Comments
CON	18	1	Normal ↓
	14	2	
	3	3	
1	1	1	↓ 1 dead on side of jar (in soil), others normal Evidence of dead, decomposed ones on very bottom, 1 alive, but starting to decompose
	16	2	
	15	3	
2.5	8	1	Not very active, normal Normal ↓
	6	2	
	12	3	
5	4	1	↓ Evidence of decomposed animals on side & bottom of jar
	13	2	
	5	3	
7.5	7	1	Normal ↓
	10	2	
	17	3	
10	11	1	One barely alive, starting to decompose, others normal Normal ↓
	9	2	
	7	3	
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
Tech. Initials:		RS	

decompos
 ing for
 others using

Washington Laboratory - 5009 Pacific Hwy. E., Suite 2. Tacoma, WA 98424.

QA: RS

14-Day Soil Survival Results

Nautilus Environmental

Client: AMEC
 Sample ID: B-2-0908

Test No.: 0908-T026
 Test Species: Eisenia foetida

Conc. or Sample	Cont. #	Rep. #	Initial Number	Final Number	
CON	18	1	10	10	
	14	2	10	8	
	3	3	10	9	
1	1	1	10	8	
	590	16	2	10	7
		15	3	10	9
2.5	8	1	10	8	
	5600	6	2	10	10
		12	3	10	10
5	4	1	10	10	
	5100	13	2	10	10
		5	3	10	8
7.5	2	1	10	7	
	4700	10	2	10	10
		17	3	10	9
10	11	1	10	8	
	8500	9	2	10	9
		7	3	10	10
		1	10		
		2	10		
		3	10		
		1	10		
		2	10		
		3	10		
		1	10		
		2	10		
		3	10		
		1	10		
		2	10		
		3	10		
Tech Initials			105/CC	105	

QA Check: 105

Nautilus Environmental
 Washington Laboratory
 5009 Pacific Hwy. E., Suite 2
 Tacoma, WA 98424

Raw Data Sheet
 Soil Data
 14-Day Soil Toxicity Test

Client: AMEC
 Sample ID: B-2-0809

Test No: 0908-T026
 Log-In#: 509-027
 Test Species: Escheria faetida

Soil Weights

14S
 8/10
 8/10
 8/12

Site	Initial (wet)	Final (dry)	MF
B-2-0809	73.6040	57.7940	172.03
B-2-0809	101.3996	85.3540	179.19
Tech Initials:	125	125	125

wt 11:40

① 101.3996

Date/Time in: 8/10/09 1435
 Date/Time out: 8/11/09 1500

Oven Temp.: 120°C
 Oven Temp.: 115°C

MF = (I-F) / [A-(I-F)] * 100

- MF = Moisture fraction of bulk soil (in %)
- I = Initial wet weight of sample + crucible (in grams)
- F = Final dry weight of sample + crucible (in grams)
- A = Initial aliquot weight (in grams)

pH/ Conductivity

Site	pH (5 min)	Cond (5min)	pH (30 min)	Cond (30 min)
B-2-0809	6.75	1051	6.79	1244
Tech Initials:	125	125	125	125

To measure pH/Conductivity make a slurry of soil and DI in a 1:1 ratio. Put on stir plate for 5 minutes and record reading. Allow slurry to settle for 30 minutes and record reading

Nautilus Environmental
 Washington Laboratory
 5009 Pacific Hwy. E., Suite 2
 Tacoma, WA 98424

Raw Data Sheet
 Soil Data
 14-Day Soil Toxicity Test

Client: AMEC
 Sample ID: B-2-0809
 Date: 8/13/09

Test No: 0908-T026
 Log-In#: 509-027
 Test Species: E. foetida

Soil Weights

Site	Initial (wet)	Final (dry)	MF
CON	78.7	71.1	43.7
1	102.4	95.8	35.9
2.5	100.5	99.5	38.9
5	92.4	84.4	47.1
7.5	104.7	95.5	58.2
10	101.3	91.5	64.5
Tech Initials:	1	125	125

Date/Time in: 8/13/09 1500
 Date/Time out: 8/14/09 1600

Oven Temp.: >110°C
 Oven Temp.: 110

$$MF = (I-F) / [A-(I-F)] * 100$$

MF= Moisture fraction of bulk soil (in %)

I= Initial wet weight of sample + crucible (in grams)

F= Final dry weight of sample + crucible (in grams)

A= Initial aliquot weight (in grams)

pH/ Conductivity

Site	pH (5 min)	Cond (5min)	pH (30 min)	Cond (30 min)
CON	7.56	571	7.14	615
1	7.58	473	7.13	528
2.5	7.59	501	7.16	553
5	7.62	629	7.20	668
7.5	7.57	529	7.15	581
10	7.55	683	7.18	743
Tech Initials:	125	125	125	125

To measure pH/Conductivity make a slurry of soil and DI in a 1:1 ratio. Put on stir plate for 5 minutes and record reading. Allow slurry to settle for 30 minutes and record reading

Nautilus Environmental
 Washington Laboratory
 5009 Pacific Hwy. E., Suite 2
 Tacoma, WA 98424

Raw Data Sheet
 Soil Data
 14-Day Soil Toxicity Test

Client: AMEC
 Sample ID: B-2-0809
 Date: 0908-702-003 8/29/09

Test No: 0908-T026
 Log-In#: 509-027
 Test Species: Ersonia foetida

Soil Weights

Site	Initial (wet)	Final (dry)	MF
CON	102.5	93.6	55.28
2.5 ¹⁰⁵	92.7	85.2	42.86
2.5	101.4	92.9	51.52
5	102.0	93.1	55.28
7.5	104.9	95.0	65.96
10	106.6	96.2	71.23
Tech Initials:	BP	BP	BP

Date/Time in: 8/27/09 1340
 Date/Time out: 8/29/09 1600

Oven Temp: 63.0
 Oven Temp: 107.2

$$MF = (I-F) / [A - (I-F)] * 100$$

MF= Moisture fraction of bulk soil (in %)

I= Initial wet weight of sample + crucible (in grams)

F= Final dry weight of sample + crucible (in grams)

A= Initial aliquot weight (in grams)

pH/ Conductivity

Site	pH (5 min)	Cond (5min)	pH (30 min)	Cond (30 min)
CON	8.16	370	7.76	395
1	8.04	520	7.74	494
2.5	8.02	506	7.76	519
5	8.04	525	7.79	523
7.5	8.07	457	7.81	463
10	8.07	484	7.79	490
Tech Initials:	BP	BP	BP	BP

To measure pH/Conductivity make a slurry of soil and DI in a 1:1 ratio. Put on stir plate for 5 minutes and record reading. Allow slurry to settle for 30 minutes and record reading

***Lactuca sativa* (butter crunch lettuce)**

CETIS Summary Report

Report Date: 10 Sep-09 08:59 (p 1 of 1)
 Link/Link Code: 12-4838-6756/0908-T022

Early Seedling Growth **Nautilus Environmental WA**

Test Run No: 10-3898-5427	Test Type: Survival-Growth	Analyst: Indira Santiago
Start Date: 11 Aug-09 16:30	Protocol: WDOE 96-324	Diluent: Not Applicable
Ending Date: 25 Aug-09 14:20	Species: Lactuca sativa	Brine: Not Applicable
Duration: 13d 22h	Source: Territorial Seed Company	Age:

Sample No: 06-4636-8156	Code: S09-027	Client: AMEC
Sample Date: 04 Aug-09 10:00	Material: Soil Waste	Project:
Receive Date: 10 Aug-09 10:25	Source: Custom Plywood RI/FS	
Sample Age: 7d 7h (3.2 °C)	Station:	

Comparison Summary

Analysis No	Endpoint	NOEL	LOEL	TOEL	PMSD	Method
19-8056-0917	Mean Dry Weight-mg	1700	1900	1800	13.8%	Dunnett's Multiple Comparison Test
02-1546-1880	Survival Rate	9800	> 9800	N/A	11.1%	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis No	Endpoint	Effect-%	Conc-mg/k	95% LCL	95% UCL	Method
12-4606-3079	Mean Dry Weight-mg	25	3930	844	N/A	Linear Interpolation (ICPIN)
		50	> 9800	N/A	N/A	

Mean Dry Weight-mg Summary

Conc-mg/kg	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background S	5	2.2	2.14	2.27	1.98	2.45	0.0318	0.174	7.89%	0.0%
1700		5	1.99	1.88	2.1	1.68	2.45	0.0533	0.292	14.6%	9.51%
1900		5	1.76	1.7	1.83	1.51	1.94	0.0332	0.182	10.3%	20.0%
4300		5	1.61	1.52	1.69	1.39	1.91	0.0415	0.227	14.1%	27.1%
6300		5	1.65	1.58	1.72	1.41	1.86	0.0351	0.192	11.6%	25.0%
9800		5	1.64	1.6	1.68	1.54	1.8	0.0191	0.105	6.38%	25.6%

Survival Rate Summary

Conc-mg/kg	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background S	5	0.967	0.95	0.984	0.917	1	0.00833	0.0456	4.72%	0.0%
1700		5	0.983	0.969	0.997	0.917	1	0.0068	0.0373	3.79%	-1.72%
1900		5	0.933	0.907	0.959	0.833	1	0.0127	0.0697	7.47%	3.45%
4300		5	0.95	0.922	0.978	0.833	1	0.0136	0.0745	7.85%	1.72%
6300		5	0.917	0.873	0.961	0.75	1	0.0215	0.118	12.9%	5.17%
9800		5	0.933	0.907	0.959	0.833	1	0.0127	0.0697	7.47%	3.45%

Mean Dry Weight-mg Detail

Conc-mg/kg	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Background Soi	2.45	2.12	2.26	1.98	2.2
1700		1.68	1.84	2.45	1.91	2.09
1900		1.51	1.81	1.65	1.94	1.91
4300		1.39	1.74	1.91	1.61	1.39
6300		1.49	1.71	1.86	1.78	1.41
9800		1.68	1.8	1.54	1.55	1.62

Survival Rate Detail

Conc-mg/kg	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Background Soi	0.917	1	1	1	0.917
1700		1	1	1	1	0.917
1900		0.833	1	0.917	0.917	1
4300		0.833	0.917	1	1	1
6300		0.833	1	1	1	0.75
9800		0.917	0.917	1	1	0.833

CETIS Analytical Report

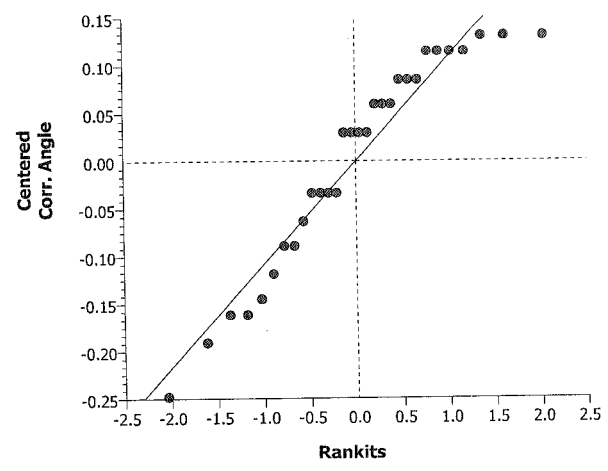
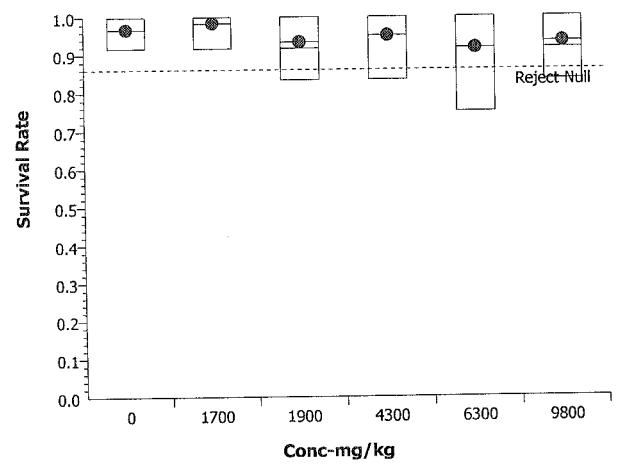
Report Date: 28 Aug-09 12:26 (p 3 of 4)

Link/Link Code: 12-4838-6756/0908-T022

Early Seedling Growth								Nautilus Environmental WA			
Analysis No: 02-1546-1880		Endpoint: Survival Rate		CETIS Version: CETISv1.6.3				Official Results: Yes			
Analyzed: 27 Aug-09 9:33		Analysis: Parametric-Control vs Treatments									
Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD			
Angular (Corrected)		C > T	Not Run	9800	>9800	N/A	0.0102	11.1%			
Dunnnett's Multiple Comparison Test											
Control	vs	Conc-mg/kg	Test Stat	Critical	MSD	P-Value	Decision(5%)				
Background Soil		1700	-0.388	2.36	0.18	0.9230	Non-Significant Effect				
		1900	0.723	2.36	0.18	0.5460	Non-Significant Effect				
		4300	0.335	2.36	0.18	0.7160	Non-Significant Effect				
		6300	0.941	2.36	0.18	0.4470	Non-Significant Effect				
		9800	0.723	2.36	0.18	0.5460	Non-Significant Effect				
ANOVA Table											
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)					
Between	0.0373659	0.0074732	5	0.515	0.7630	Non-Significant Effect					
Error	0.3485097	0.0145212	24								
Total	0.3858756	0.0219944	29								
ANOVA Assumptions											
Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)						
Variances	Bartlett Equality of Variance	4.45	15.1	0.4860	Equal Variances						
Distribution	Shapiro-Wilk Normality	0.918		0.0244	Normal Distribution						
Survival Rate Summary											
Conc-mg/kg	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background Soi	5	0.967	0.949	0.984	0.917	1	0.00848	0.0456	4.72%	0.0%
1700		5	0.983	0.969	0.998	0.917	1	0.00692	0.0373	3.79%	-1.72%
1900		5	0.933	0.907	0.96	0.833	1	0.0129	0.0697	7.47%	3.45%
4300		5	0.95	0.922	0.978	0.833	1	0.0138	0.0745	7.85%	1.72%
6300		5	0.917	0.872	0.961	0.75	1	0.0219	0.118	12.9%	5.17%
9800		5	0.933	0.907	0.96	0.833	1	0.0129	0.0697	7.47%	3.45%
Angular (Corrected) Transformed Summary											
Conc-mg/kg	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background Soi	5	1.37	1.34	1.4	1.28	1.43	0.0151	0.0811	5.93%	0.0%
1700		5	1.4	1.37	1.42	1.28	1.43	0.0123	0.0662	4.74%	-2.17%
1900		5	1.31	1.27	1.36	1.15	1.43	0.0217	0.117	8.9%	4.03%
4300		5	1.34	1.29	1.39	1.15	1.43	0.0231	0.125	9.28%	1.87%
6300		5	1.3	1.23	1.36	1.05	1.43	0.034	0.183	14.1%	5.25%
9800		5	1.31	1.27	1.36	1.15	1.43	0.0217	0.117	8.9%	4.03%

Early Seedling Growth		Nautilus Environmental WA	
Analysis No: 02-1546-1880	Endpoint: Survival Rate	CETIS Version: CETISv1.6.3	Official Results: Yes
Analyzed: 27 Aug-09 9:33	Analysis: Parametric-Control vs Treatments		

Graphics



Early Seedling Growth Nautilus Environmental WA

Analysis No: 19-8056-0917 Endpoint: Mean Dry Weight-mg CETIS Version: CETISv1.6.3
 Analyzed: 28 Aug-09 12:24 Analysis: Parametric-Control vs Treatments Official Results: Yes

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	1700	1900	1800	0.0588	13.8%

Dunnett's Multiple Comparison Test

Control	vs Conc-mg/kg	Test Stat	Critical	MSD	P-Value	Decision(5%)
Background Soil	1700	1.63	2.36	0.304	0.1840	Non-Significant Effect
	1900*	3.42	2.36	0.304	0.0048	Significant Effect
	4300*	4.64	2.36	0.304	0.0002	Significant Effect
	6300*	4.29	2.36	0.304	0.0006	Significant Effect
	9800*	4.39	2.36	0.304	0.0004	Significant Effect

ANOVA Table

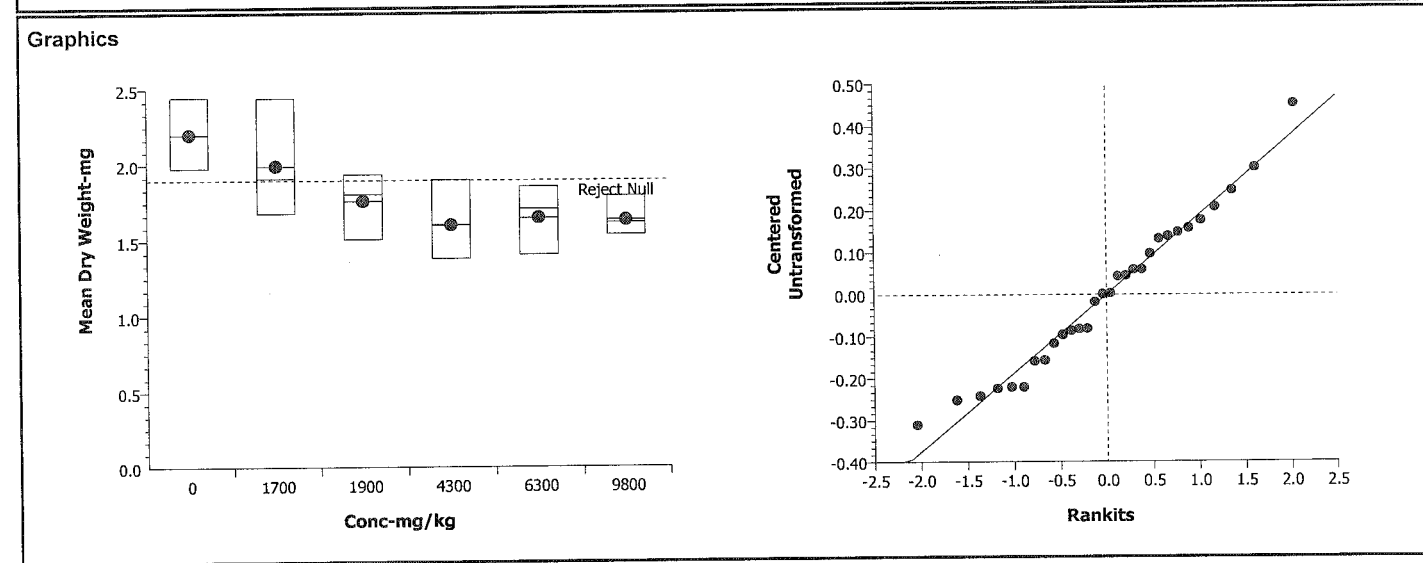
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.432113	0.2864225	5	6.93	0.0004	Significant Effect
Error	0.9919018	0.0413292	24			
Total	2.424015	0.3277518	29			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.77	15.1	0.5830	Equal Variances
Distribution	Shapiro-Wilk Normality	0.974		0.6620	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg/kg	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background Soi	5	2.2	2.14	2.27	1.98	2.45	0.0323	0.174	7.89%	0.0%
1700		5	1.99	1.88	2.11	1.68	2.45	0.0542	0.292	14.6%	9.51%
1900		5	1.76	1.69	1.83	1.51	1.94	0.0337	0.182	10.3%	20.0%
4300		5	1.61	1.52	1.69	1.39	1.91	0.0422	0.227	14.1%	27.1%
6300		5	1.65	1.58	1.73	1.41	1.86	0.0357	0.192	11.6%	25.0%
9800		5	1.64	1.6	1.68	1.54	1.8	0.0194	0.105	6.38%	25.6%



CETIS Analytical Report

Report Date: 28 Aug-09 12:26 (p 1 of 2)

Link/Link Code: 12-4838-6756/0908-T022

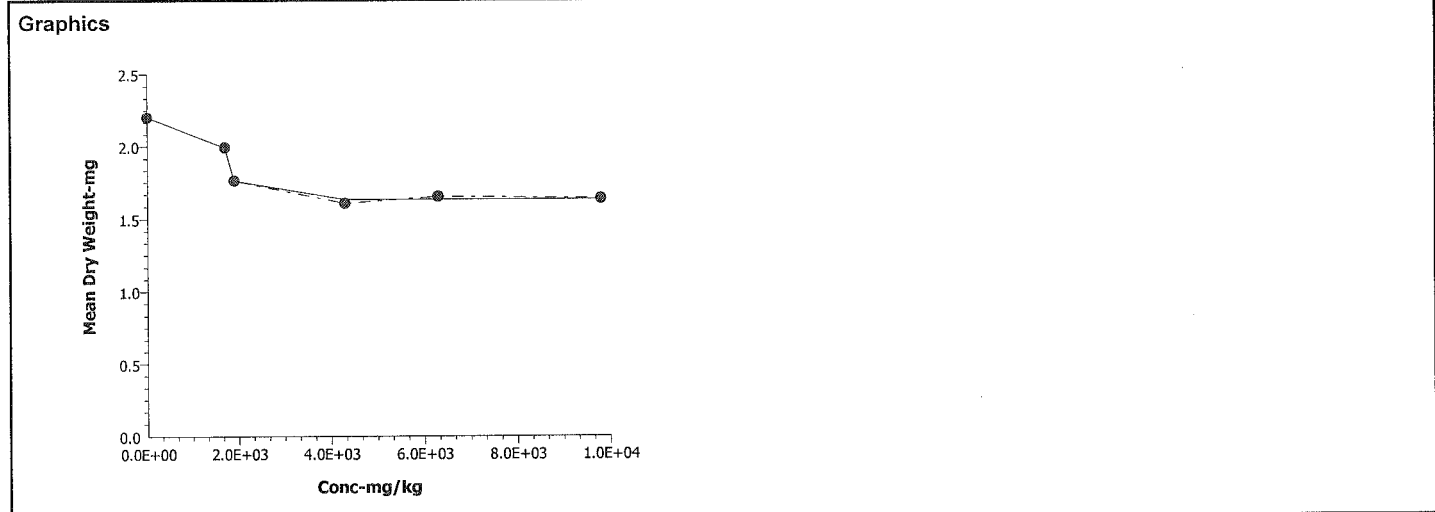
Early Seedling Growth			Nautilus Environmental WA		
Analysis No: 12-4606-3079	Endpoint: Mean Dry Weight-mg	CETIS Version: CETISv1.6.3			
Analyzed: 28 Aug-09 12:24	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes			

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Point Estimates			
Effect-%	Conc-mg/k	95% LCL	95% UCL
25	3930	844	N/A
50	> 9800	N/A	N/A

Mean Dry Weight-mg Summary			Calculated Variate						
Conc-mg/k	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background Soil	5	2.2	1.98	2.45	0.0318	0.174	7.89%	0.0%
1700		5	1.99	1.68	2.45	0.0533	0.292	14.6%	9.51%
1900		5	1.76	1.51	1.94	0.0332	0.182	10.3%	20.0%
4300		5	1.61	1.39	1.91	0.0415	0.227	14.1%	27.1%
6300		5	1.65	1.41	1.86	0.0351	0.192	11.6%	25.0%
9800		5	1.64	1.54	1.8	0.0191	0.105	6.38%	25.6%

Mean Dry Weight-mg Detail						
Conc-mg/k	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Background Soil	2.45	2.12	2.26	1.98	2.2
1700		1.68	1.84	2.45	1.91	2.09
1900		1.51	1.81	1.65	1.94	1.91
4300		1.39	1.74	1.91	1.61	1.39
6300		1.49	1.71	1.86	1.78	1.41
9800		1.68	1.8	1.54	1.55	1.62



Nautilus Environmental
 Washington Laboratory
 5009 Pacific Hwy. E., Suite 2
 Tacoma, WA 98424

Raw Data Sheet
 Shoot Weight Data
 14-Day Soil Toxicity Test

Client: AMEC Start Date & Time: 8/11/09 1630
 Test No: B-2-0809105 0908-T022 Stop Date & Time: 8/25/09 1420
 Test Species: Lactuca sativa (Butter Crunch Lettuce)

Conc. or Sample	Cont.	Rep.	No. Seedlings Emerged	Shoot Pan Tare Wt. (g)	Pan + Wet Shoot Wt. (g)	Pan + Dry Shoot Wt. (g)	
CON	29	1	11	1.82625	2.17007	1.85320	
	19	2	12	1.58990	1.95958	1.61535	
	5	3	12	1.60298	1.92950	1.63013	
	28	4	12	1.82334	2.15136	1.84710	
	30	5	11	1.90749	2.22445	1.93174	
1	22	1	12	1.82743	2.16094	1.84763	
	1700	26	12	1.81204	2.13050	1.83409	
		12	12	1.77577	2.14369	1.80512	
		23	4	12	1.77288	2.10347	1.79583
		1	5	11	1.72837	2.05818	1.75137
2.5	16	1	10	1.59960	1.82259	1.61472	
	1900	2	12 ^{ies}	1.73612	2.05253	1.75782	
		7	11	1.73748	2.02750	1.75560	
		10	11	1.61652	1.89766	1.63786	
		9	12	1.63128	1.93816	1.65402	
5	20	1	10	1.64672	1.83903	1.66058	
	4300	14	11	1.55786	1.79032	1.57705	
		11	12	1.68625	1.98502	1.70913	
		8	12	1.65103	1.90640	1.67034	
		25	5	12	1.84735	2.07963	1.86398
7.5	24	1	10	1.78148	1.94753	1.79642	
	6300	3	12	1.62882	1.84815	1.64937	
		15	12	1.54870	1.82042	1.57102	
		4	12	1.60652	1.85502	1.62794	
		21	5	9	1.49690	1.67986	1.50960
10	6	1	11	1.67905	1.89304	1.69755	
	9800	27	11	1.80163	2.00991	1.821439 ^{ies}	
		17	12	1.65273	1.89593	1.67124	
		13	12	1.59489	1.80263	1.61322	
		18	5	10	1.44949	1.64755	1.46570
Tech Initials:			ies	BP	BP	ies	

Comments: Initial number of seeds added to each replicate = 12

Date/Time in: 8/25/09 1500
 Oven Temp (°C): 65.0
 Date/Time out: 8/26/09 1600
 Oven Temp (°C): 70.0

QC Check: ies

14-Day Soil Observations

Nautilus Environmental

Client: AMEC
 Sample ID: B-2-0809

Test Date: 8/11/09
 Test Organism: Lactuca sativa

Conc. Or Sample	Cont.	Rep.	Comments
CON	29	1	Normal
	19	2	
	5	3	↓ , delayed germination (1)
	28	4	
	30	5	↓
1	22	1	Normal
	26	2	Normal growth, some yellowing
	12	3	" "
	23	4	(2) delayed growth, some yellowing, chlorosis (1)
	1	5	(3) delayed growth, some yellowing, some brown spots
2.5	16	1	Normal growth, some yellowing
	2	2	Delayed growth, "
	7	3	Some delayed growth, some yellowing
	10	4	" " chlorosis (1)
	9	5	more delayed growth, some yellowing
5	20	1	Delayed growth, yellowing of cotyledons toward stem
	14	2	" germination (1), delayed growth, yellowing of cotyledons toward stem (all)
	11	3	Delayed growth, yellowing of cotyled. toward center (8)
	8	4	" " " " " " (1), brown spots (6)
	25	5	" " " " " " (all), " " (4)
7.5	24	1	Delayed growth
	3	2	" " , some yellowing (4)
	15	3	" " , " " (all)
	4	4	" " , some yellowing (4)
	21	5	" " , " " (all)
10	6	1	Delayed Growth
	27	2	" " (1), chlorosis (1), some yellowing (4)
	17	3	" " , chlorosis
	13	4	" " , " (2), delayed germination (1)
	18	5	" "
		1	
		2	
		3	
		4	
		5	

Tech Initials: BP/ies

Effects Key:
 W= Wilting N= Normal
 D= Desiccation X= No germination
 M= Mottling C= Chlorosis

Comments _____
 QC Check VB

Soil Toxicity Test

Client/Sample ID: AMEC/B-2-0809

Tray #: AMEC 4/11

Test No: 0908-7022

Start Date/Time: 4/11/09 1630

End Date/Time: _____

Test Species: Lactuca sativa (buttercrunch lettuce)

Lettuce Seed Daily Germination Counts

Day 3	Row	Column					
		1	2	3	4	5	6
Day 3	A	9	11	9	10	11	/
	B	10	10	11	10	12	/
	C	11	11	8	9	11	/
	D	8	10	9	12	9	/
	E	10	11	12	11	7	/
	F	6	12	9	-	9	/
Analyst		105					

Day 7	Row	Column					
		1	2	3	4	5	6
Day 7	A	12	11	12	12	12	/
	B	12	12	11	10	12	/
	C	12	12	12	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	12	11	/
	F	11	12	10	10	10	/
Analyst		105					

Day 4	Row	Column					
		1	2	3	4	5	6
Day 4	A	10	11	12	12	11	/
	B	12	12	11	10	12	/
	C	12	12	11	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	11	11	/
	F	10	12	10	-	10	/
Analyst		SA					

Day 12	Row	Column					
		1	2	3	4	5	6
Day 12	A	11	11	12	12	12	/
	B	12	12	12	10	12	/
	C	12	12	12	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	12	11	/
	F	11	12	10	10	11	/
Analyst		AF					

Day 8	Row	Column					
		1	2	3	4	5	6
Day 8	A	11	11	12	12	12	/
	B	12	12	11	10	12	/
	C	12	12	12	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	12	11	/
	F	11	12	10	10	11	/
Analyst		BP					

Day 5	Row	Column					
		1	2	3	4	5	6
Day 5	A	11	11	12	12	12	/
	B	12	12	11	10	12	/
	C	12	12	12	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	12	11	/
	F	12	12	10	9	10	/
Analyst		SA					

Day 13	Row	Column					
		1	2	3	4	5	6
Day 13	A	11	11	12	12	12	/
	B	12	12	12	10	12	/
	C	12	12	12	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	12	11	/
	F	11	12	10	10	11	/
Analyst		BP					

Day 9	Row	Column					
		1	2	3	4	5	6
Day 9	A	11	11	12	12	12	/
	B	12	12	11	10	12	/
	C	12	12	12	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	12	11	/
	F	11	12	10	10	11	/
Analyst		AF					

Day 6	Row	Column					
		1	2	3	4	5	6
Day 6	A	12	11	12	12	12	/
	B	12	12	11	10	12	/
	C	12	12	12	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	12	11	/
	F	11	12	10	10	10	/
Analyst		105					

Day 14	Row	Column					
		1	2	3	4	5	6
Day 14	A	10/11	11	12	12	12	/
	B	12	12	11	10	12	/
	C	12	12	12	9	11	/
	D	12	11	10	12	12	/
	E	12	12	12	12	11	/
	F	11	12	10	10	11	/
Analyst		BP					

Day 10	Row	Column					
		1	2	3	4	5	6
Day 10	A	11	11	12	12	12	/
	B	12	12	12	10	12	/
	C	12	12	12	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	12	11	/
	F	11	12	10	10	11	/
Analyst		BP					

Day 11	Row	Column					
		1	2	3	4	5	6
Day 11	A	11	11	12	12	12	/
	B	12	12	12	10	12	/
	C	12	12	12	9	11	/
	D	12	11	9	12	12	/
	E	12	12	12	12	11	/
	F	11	12	10	10	11	/
Analyst		AF					

Comments: _____

QC Check: 105

Final Review: MPR

APPENDIX C - Reference Toxicant Tests

Eisenia 14-d Survival Soil Test

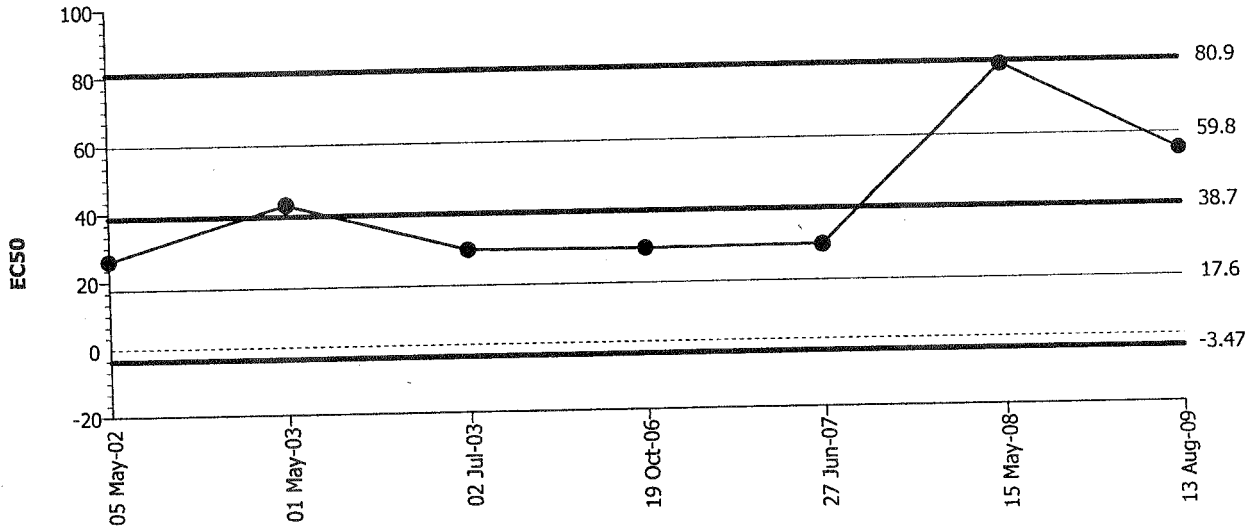
Nautilus Environmental WA

Test Type: Survival
Protocol: WDOE 96-327

Organism: Eisenia fetida (Red worm)
Endpoint: Survival Rate

Material: 2-chloroacetamide
Source: Reference Toxicant-REF

Eisenia 14-d Survival Soil Test



Mean: 38.69 Count: 6 -1s Warning Limit: 17.61 -2s Action Limit: -3.47
Sigma: 21.08 CV: 54.50% +1s Warning Limit: 59.77 +2s Action Limit: 80.85

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Link No	Analysis No
1	2002	May	5	26.17	-12.52	-0.5939			16-0112-7495	03-6581-6762
2	2003		1	42.11	3.419	0.1622			18-0678-2428	16-4730-7285
3		Jul	2	28.07	-10.62	-0.5037			02-9873-1034	00-3454-9068
4	2006	Oct	19	27.75	-10.94	-0.519			02-3082-1435	15-2767-2470
5	2007	Jun	27	28.01	-10.68	-0.5065			19-0311-5351	13-6127-6576
6	2008	May	15	80	41.31	1.96	(+)		20-3102-3790	16-3060-0026
7	2009	Aug	13	55.16	16.47	0.7811			20-6120-4139	00-4183-4608

CETIS Summary Report

Report Date: 28 Aug-09 15:12 (p 1 of 1)

Link/Link Code: 20-6120-4139/RT081309EF

Eisenia 14-d Survival Soil Test **Nautilus Environmental WA**

Test Run No: 20-9451-6007	Test Type: Survival	Analyst: Indira Santiago
Start Date: 13 Aug-09 15:35	Protocol: WDOE 96-327	Diluent:
Ending Date: 27 Aug-09 12:20	Species: Eisenia fetida	Brine:
Duration: 13d 21h	Source: Aquatic Research Organisms, NH	Age: 2mo

Sample No: 11-6451-7958	Code: RT081309EF	Client: Reference Toxicant Test
Sample Date: 27 Aug-09 14:18	Material: 2-chloroacetamide	Project:
Receive Date: 27 Aug-09 14:18	Source: Reference Toxicant	
Sample Age: N/A	Station:	

Point Estimate Summary

Analysis No	Endpoint	Effect-%	Conc-mg/k	95% LCL	95% UCL	Method
19-3880-5242	Survival Rate	25	48	36	56.1	Linear Regression (MLE)
		50	55.2	44.7	63.9	

Survival Rate Summary

Conc-mg/kg	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Control Sed	3	0.9	0.863	0.937	0.8	1	0.0183	0.1	11.1%	0.0%
10		3	0.9	0.9	0.9	0.9	0.9	0	0	0.0%	0.0%
20		3	0.967	0.945	0.988	0.9	1	0.0105	0.0577	5.97%	-7.41%
40		3	0.867	0.81	0.924	0.7	1	0.0279	0.153	17.6%	3.7%
80		3	0.0333	0.0118	0.0549	0	0.1	0.0105	0.0577	173.0%	96.3%

Survival Rate Detail

Conc-mg/kg	Control Type	Rep 1	Rep 2	Rep 3
0	Control Sed	1	0.8	0.9
10		0.9	0.9	0.9
20		0.9	1	1
40		0.9	1	0.7
80		0.1	0	0

**Environmental Quality Results - 14-Day Soil
Nautilus Environmental**

Organism Tested: Eisenia foetida
 Start Date/Time: 8/30/1535
 End Date/Time: 9/2/1220

Client: Reference Toxicant
 Sample ID: 80ug/L 2-chloroacetamide
 Test #: RTX 100809 EF
18165

Conc. mg/kg	Rep. #	Cont. #	% Moisture		pH (units)		Conductivity (u/mom-cm)		Survival	
			initial	final	initial	final	initial	final	initial	final
Con	1	10	45.4	55.3	7.54	7.48	448	587	10	10
	2	1			Supern 7.25		Supern 451		10	8
	3	9			7.10				10	9
10	1	6	44.5	55.3	7.48	7.62	438	461	10	9
	2	5			Supern 7.22		Supern 466		10	9
	3	13							10	9
20	1	4	45.4	49.7	7.49	7.70	430	478	10	9
	2	12			Supern 7.30		Supern 456		10	10
	3	7							10	10
40	1	11	44.5	50.6	7.48	7.66	424	477	10	9
	2	14			Supern 7.27		Supern 476		10	10
	3	3					Supern 516		10	7
80	1	2	46.2	58.8	7.47	7.84	433	518	10	1
	2	15			Supern 7.31		Supern 447		10	0
	3	8					Supern 462		10	0

Test Day	Temp (°C)	Tech Initials
0	22.5	105
1	22.2	105
2	22.3	105
3	22.3	105
4	22.3	105
5	22.4	105
6	22.3	105
7	22.2	MF
8	22.0	105
9	22.0	MF
10	22.0	MF
11	22.0	105
12	22.3	MF
13	22.5	105
14	22.5	105

QA Review/Date: 105
 105 Washington Laboratory - 5009 Pacific Hwy. E., Suite 2, Tacoma, WA 98424.
 Test Chamber: RMA 105

14-Day Soil Observations Nautilus Environmental

Client: Reference Toxicant
 Sample ID: 80, 10, 20, 40, 80 2-chloroacetamide

Test No.: RT081309EF
 Test Species: Eisenia foetida

Date: 8/20/09

Conc. or Sample	Cont. #	Rep. #	Comments
CON	10	1	NORMA
		2	NORMA
		3	NORMA
10	6	1	NORMA
		2	NORMA
		3	NORMA
20	4	1	NORMA
		2	NORMA
		3	NORMA
40	11	1	NORMA
		2	NORMA
		3	NORMA
80	2	1	Slime on top of soil - obviously dead
		2	Slime on top of soil - obviously dead
		3	Slime on top of soil - obviously dead
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
Tech. Initials:		MF	

Washington Laboratory - 5009 Pacific Hwy. E., Suite 2. Tacoma, WA 98424.

QA: IBS

14-Day Soil Observations Nautilus Environmental

Client: Reference Toxicant Test No.: RT081309EF
 Sample ID: 80µg/L 2-chloroacetamide Test Species: Eisenia foetida
 Date: 8/27/09

Conc. or Sample	Cont. #	Rep. #	Comments
CON	10	1	Normal
		2	
	9	3	↓
10	6	1	One was very short, otherwise normal
	5	2	Normal
	13	3	
20	4	1	3 failed up, normal otherwise
	12	2	One very tiny one, otherwise normal
	7	3	Normal
40	11	1	
	14	2	
	3	3	↓
80	2	1	
	15	2	All dead, either on surface or at the very bottom
	8	3	↓
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
		1	
		2	
		3	
Tech. Initials:		105	

Washington Laboratory - 5009 Pacific Hwy. E., Suite 2. Tacoma, WA 98424.

QA: 105

Nautilus Environmental
 Washington Laboratory
 5009 Pacific Hwy. E., Suite 2
 Tacoma, WA 98424

Raw Data Sheet
 Soil Data
 14-Day Soil Toxicity Test

Client: Reference Toxicant
 Sample ID: 80 μ g/L 2-Chloroacetamide

Test No: RT130809EF
 Log-In#:
 Test Species: E.foetida

Soil Weights

Site	Initial (wet)	Final (dry)	MF
CON	92.7	84.9	45.4
10	78.1	70.4	44.5
20	102.0	94.2	46.4
40	77.8	70.1	44.5
80	78.0	70.1	46.2
Tech Initials:	IES	IES	IES

Date/Time in: 8/13/09 1530
 Date/Time out: 8/14/09 1600

Oven Temp.: 7100 110°C
 Oven Temp.: 110°C

$$MF = (I-F) / [A - (I-F)] * 100$$

- MF= Moisture fraction of bulk soil (in %)
- I= Initial wet weight of sample + crucible (in grams)
- F= Final dry weight of sample + crucible (in grams)
- A= Initial aliquot weight (in grams)

pH/ Conductivity

Site	pH (5 min)	Cond (5min)	pH (30 min)	Cond (30 min)
CON	7.54	448	7.25	451
10 10	7.48	438	7.22	466
20	7.48	430	7.30	456
40	7.48	424	7.27	436
80	7.47	433	7.31	452
Tech Initials:	IES	IES	IES	IES

To measure pH/Conductivity make a slurry of soil and DI in a 1:1 ratio. Put on stir plate for 5 minutes and record reading. Allow slurry to settle for 30 minutes and record reading

Nautilus Environmental
 Washington Laboratory
 5009 Pacific Hwy. E., Suite 2
 Tacoma, WA 98424

Raw Data Sheet
 Soil Data
 14-Day Soil Toxicity Test

Client: Reference Toxicant
 Sample ID: 80 µg/L 2-chloroacetamide
 Date: 8/29/09

Test No: RT 081309EF
 Log-In#: —
 Test Species: E. faecida

Soil Weights

Site	Initial (wet)	Final (dry)	MF <u>105</u>
CON	78.0	69.1	55.828
10	78.9	70.0	55.28
20	77.8	69.5	49.7
40	92.4	84.0	50.6
80	78.1	68.9	58.23
Tech Initials:	BP	105	105

Date/Time in: 8/27/09 1250
 Date/Time out: 8/28/09 1600

Oven Temp.: 63.0
 Oven Temp.: 107.2

$$MF = (I-F) / [A-(I-F)] * 100$$

MF= Moisture fraction of bulk soil (in %)
 I= Initial wet weight of sample + crucible (in grams)
 F=Final dry weight of sample + crucible (in grams)
 A= Initial aliquot weight (in grams)

pH/ Conductivity

Site	pH (5 min)	Cond (5min)	pH (30 min)	Cond (30 min)
CON	7.46	587	7.73	621
10	7.62	461	7.92	459
20	7.70	428	8.06	425
40	7.66	477	8.06	477
80	7.84	568	8.24	566
Tech Initials:	BP	BP	BP	BP

To measure pH/Conductivity make a slurry of soil and DI in a 1:1 ratio. Put on stir plate for 5 minutes and record reading. Allow slurry to settle for 30 minutes and record reading

Early Seedling Growth

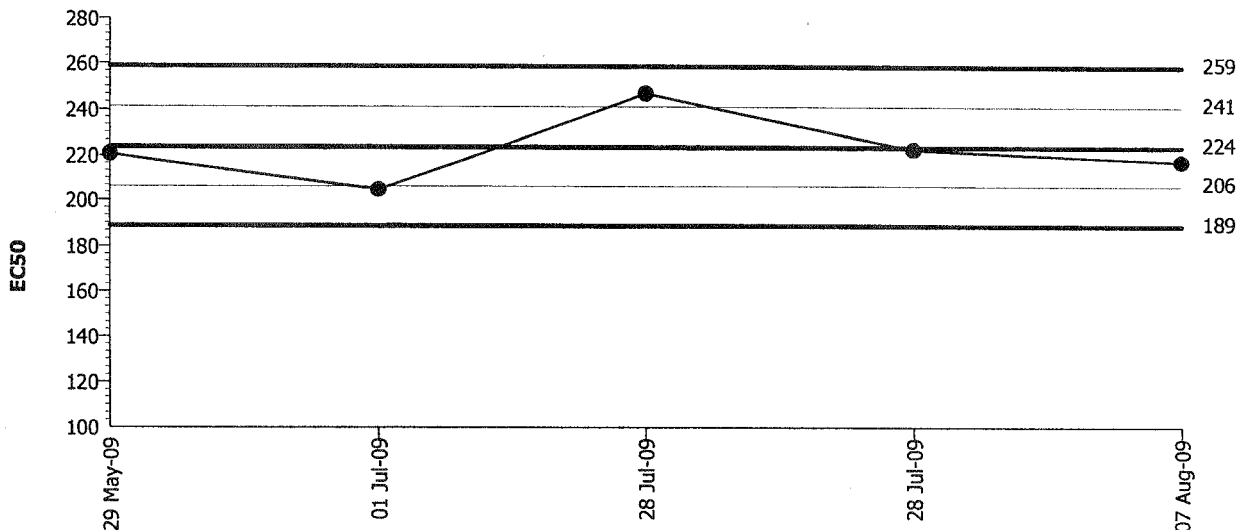
Nautilus Environmental WA

Test Type: Survival-Growth
 Protocol: WDOE 96-324

Organism: Lactuca sativa (Lettuce)
 Endpoint: Survival Rate

Material: Soil Waste
 Source: Reference Toxicant-REF

Early Seedling Growth



Mean: 223.7 Count: 4 -1s Warning Limit: 206.2 -2s Action Limit: 188.6
 Sigma: 17.53 CV: 7.84% +1s Warning Limit: 241.2 +2s Action Limit: 258.8

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Link No	Analysis No
1	2009	May	29	220.6	-3.094	-0.1765			09-0219-1410	13-2075-5309
2		Jul	1	204.7	-19.03	-1.086	(-)		11-7520-9930	03-2799-1846
3			28	247.1	23.42	1.336	(+)		11-1163-7315	08-7410-7616
4			28	222.6	-1.108	-0.06319			18-2758-4943	00-2970-8628
5		Aug	7	217.2	-6.479	-0.3696			15-7179-2232	06-8206-1666

Early Seedling Growth

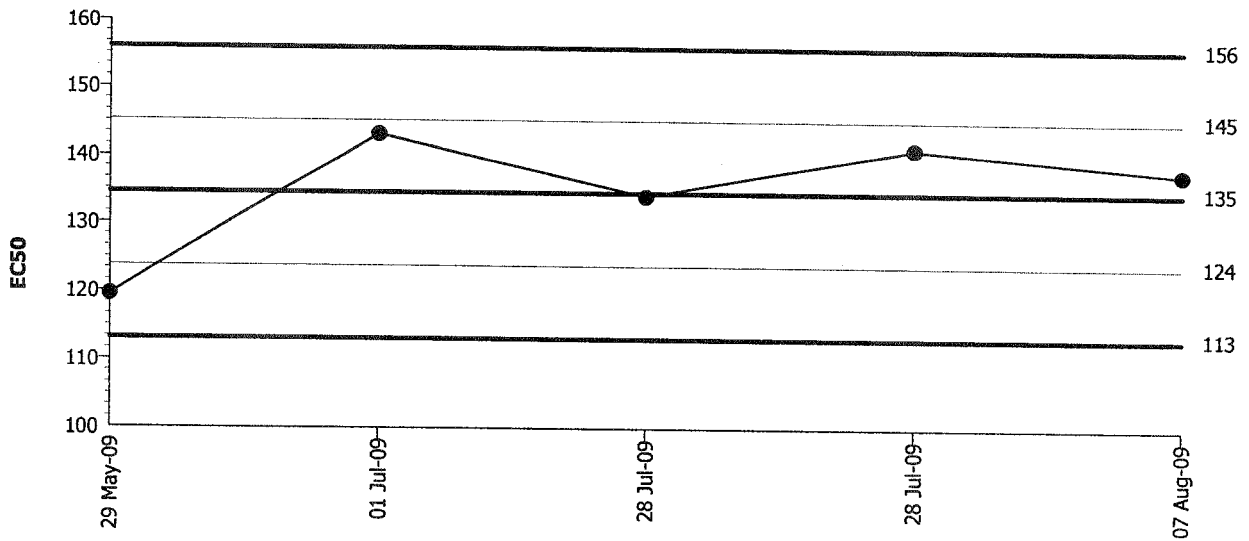
Nautilus Environmental WA

Test Type: Survival-Growth
 Protocol: WDOE 96-324

Organism: Lactuca sativa (Lettuce)
 Endpoint: Mean Dry Biomass-mg

Material: Soil Waste
 Source: Reference Toxicant-REF

Early Seedling Growth



Mean: 134.5 Count: 4 -1s Warning Limit: 123.8 -2s Action Limit: 113.1
 Sigma: 10.72 CV: 7.97% +1s Warning Limit: 145.2 +2s Action Limit: 155.9

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Link No	Analysis No
1	2009	May	29	119.5	-14.98	-1.397	(-)		09-0219-1410	17-6385-6463
2		Jul	1	143.2	8.662	0.8081			11-7520-9930	08-5129-5237
3			28	134	-0.4858	-0.04532			11-1163-7315	02-6860-1115
4			28	141.2	6.715	0.6264			18-2758-4943	06-5912-1272
5		Aug	7	137.6	3.073	0.2866			15-7179-2232	18-3375-3650

CETIS Summary Report

Report Date: 24 Aug-09 09:44 (p 1 of 1)
 Link/Link Code: 15-7179-2232/RT080709LS

Early Seedling Growth							Nautilus Environmental WA				
Test Run No:	14-0073-3102	Test Type:	Survival-Growth	Analyst:	Indira Santiago						
Start Date:	07 Aug-09 12:30	Protocol:	WDOE 96-324	Diluent:	Not Applicable						
Ending Date:	21 Aug-09 11:00	Species:	Lactuca sativa	Brine:							
Duration:	13d 22h	Source:	Territorial Seed Company	Age:							
Sample No:	02-2172-5636	Code:	RT080709LS	Client:							
Sample Date:	24 Aug-09 09:25	Material:	Soil Waste	Project:							
Receive Date:	24 Aug-09 09:25	Source:	Reference Toxicant								
Sample Age:	N/A	Station:									
Comparison Summary											
Analysis No	Endpoint	NOEL	LOEL	TOEL	PMSD	Method					
17-5421-6633	Mean Dry Biomass-mg	< 40	40	N/A	30.0%	Steel Many-One Rank Test					
16-1672-0742	Survival Rate	80	160	113	8.96%	Steel Many-One Rank Test					
Point Estimate Summary											
Analysis No	Endpoint	Effect-%	Conc-mg/L	95% LCL	95% UCL	Method					
09-0615-4224	Mean Dry Biomass-mg	25	101	39.7	117	Linear Interpolation (ICPIN)					
06-8206-1666	Survival Rate	50	217	198	238	Trimmed Spearman-Kärber					
Mean Dry Biomass-mg Summary											
Conc-mg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background S	5	2.36	2.32	2.41	2.25	2.48	0.0206	0.113	4.77%	0.0%
40		5	1.94	1.9	1.98	1.82	2.11	0.0198	0.108	5.6%	18.1%
80		5	2.3	1.88	2.73	1.25	4.25	0.207	1.13	49.3%	2.64%
160		5	0.817	0.745	0.89	0.602	1.12	0.0356	0.195	23.9%	65.4%
320		5	0.0178	0.00794	0.0277	0	0.0592	0.00484	0.0265	149.0%	99.2%
640		5	0	0	0	0	0	0	0	100.0%	
Survival Rate Summary											
Conc-mg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Background S	5	1	1	1	1	1	0	0	0.0%	0.0%
40		5	0.983	0.969	0.997	0.917	1	0.0068	0.0373	3.79%	1.67%
80		5	0.95	0.933	0.967	0.917	1	0.00833	0.0456	4.8%	5.0%
160		5	0.883	0.856	0.911	0.75	0.917	0.0136	0.0745	8.44%	11.7%
320		5	0.1	0.0443	0.156	0	0.333	0.0272	0.149	149.0%	90.0%
640		5	0	0	0	0	0	0	0	100.0%	
Mean Dry Biomass-mg Detail											
Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5					
0	Background Soi	2.25	2.25	2.48	2.47	2.38					
40		1.92	1.82	1.92	1.91	2.11					
80		1.98	4.25	1.25	2.02	2.01					
160		1.12	0.694	0.852	0.821	0.602					
320		0.0592	0	0	0.03	0					
640		0	0	0	0	0					
Survival Rate Detail											
Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5					
0	Background Soi	1	1	1	1	1					
40		1	1	1	0.917	1					
80		1	0.917	0.917	0.917	1					
160		0.917	0.75	0.917	0.917	0.917					
320		0.167	0	0	0.333	0					
640		0	0	0	0	0					

Soil Tox. y Test

Lettuce Seed Daily Germination Counts

Client/Sample ID: Reference Toxicant

Test No: RT080709LS

Start Date/Time: 8/17/09 1230

Tray #: C

Test Species: Lactuca sativa (buttercrunch lettuce)

End Date/Time: 8/21/09 1100

Day 3	Row	Column					
		1	2	3	4	5	6
	A	1	2	3	1	5	6
	B	8	5	6	-	2	-
	C	5	1	6	1	2	2
	D	10	8	3	2	2	2
	E	5	6	5	-	2	3
	F	4	5	2	-	-	-
	Analyst	BP					

Day 7	Row	Column					
		1	2	3	4	5	6
	A	8	11	7	3	-	-
	B	12	12	12	-	10	-
	C	12	1	12	-	-	-
	D	12	11	11	-	12	8
	E	12	12	11	-	8	12
	F	12	11	6	-	-	-
	Analyst	RS					

Day 11	Row	Column					
		1	2	3	4	5	6
	A	11	12	9	3	-	-
	B	12	12	12	-	10	-
	C	12	12	12	-	12	-
	D	12	11	11	-	12	12
	E	12	12	11	-	12	12
	F	12	12	2	-	-	-
	Analyst	RS					

Day 4	Row	Column					
		1	2	3	4	5	6
	A	2	9	5	1	5	6
	B	12	11	12	1	5	-
	C	8	2	11	2	10	-
	D	12	11	10	2	2	2
	E	10	11	9	-	2	10
	F	12	12	3	-	-	-
	Analyst	BP					

Day 8	Row	Column					
		1	2	3	4	5	6
	A	10	11	8	4	-	-
	B	12	12	12	1	11	-
	C	11	1	12	-	-	-
	D	12	11	11	-	12	9
	E	10	12	11	-	9	12
	F	12	12	6	-	-	-
	Analyst	AA					

Day 12	Row	Column					
		1	2	3	4	5	6
	A	11	12	9	3	-	-
	B	12	12	12	-	11	-
	C	11	12	12	-	-	-
	D	12	11	11	-	12	12
	E	10	12	11	-	12	12
	F	12	12	2	-	-	-
	Analyst	BP					

Day 5	Row	Column					
		1	2	3	4	5	6
	A	5	11	5	3	2	6
	B	12	13	12	1	9	-
	C	11	2	12	2	-	-
	D	12	11	11	2	10	-
	E	11	12	9	-	2	12
	F	13	12	4	-	-	-
	Analyst	AF					

Day 9	Row	Column					
		1	2	3	4	5	6
	A	11	12	9	5	-	-
	B	12	12	12	-	12	-
	C	11	1	12	2	-	-
	D	12	11	11	-	12	12
	E	10	12	11	-	10	12
	F	12	12	6	-	-	-
	Analyst	AA					

Day 13	Row	Column					
		1	2	3	4	5	6
	A	11	12	7	3	-	-
	B	12	12	12	-	10	-
	C	11	12	12	-	-	-
	D	12	11	11	-	12	12
	E	10	12	11	-	10	12
	F	12	12	2	-	-	-
	Analyst	AF					

Day 6	Row	Column					
		1	2	3	4	5	6
	A	8	11	6	3	-	-
	B	12	12	12	-	10	-
	C	11	1	12	2	12	12
	D	12	11	11	-	8	12
	E	11	12	11	-	8	12
	F	12	12	25	-	-	-
	Analyst	RS					

Day 10	Row	Column					
		1	2	3	4	5	6
	A	11	11	9	4	-	-
	B	12	12	12	-	11	-
	C	11	-	12	-	-	-
	D	12	11	11	-	12	12
	E	10	12	11	-	10	12
	F	12	12	1	-	-	-
	Analyst	RS					

Day 14	Row	Column					
		1	2	3	4	5	6
	A	11	12	9	4	-	-
	B	12	12	12	-	11	-
	C	12	12	12	-	-	-
	D	12	11	11	-	12	12
	E	11	12	11	-	11	12
	F	12	12	2	-	-	-
	Analyst	RS					

Comments: *Culled

QC Check: 106

14-Day Soil Observations

Nautilus Environmental

Client: Reference Toxicant
 Sample ID: 640 mg/kg Btz3

Test Date: 8/7/09
 Test Organism: Lactuca sativa

Conc. Or Sample	Cont.	Rep.	Comments
CON	2	1	Normal
	14	2	Some yellowing of cotyledons, normal, Delayed germination (1)
	15	3	Normal, chlorosis (1)
	4	4	Some yellowing of cotyledons, normal
	12	5	Normal
40	8	1	Brown spotting in the some, others Normal
	7	2	Delayed germination (2), Normal
	23	3	" " (1), Normal
	10	4	" " (1), Normal
	30	5	Normal
80	6	1	Normal
	16	2	Some discoloration of cotyledons, normal
	3	3	Delayed germination (3), others normal
	5	4	" " (1), others normal
	11	5	Normal
160	17	1	Delayed germination (5), others normal
	13	2	" " (3), chlorosis (1), others normal
	1	3	" " (4), brown spots + yellowing (1), others normal
	26	4	" " (2), chlorosis + brown spots (1), others normal
	29	5	" " (5), yellowing of cotyledons
320	18	1	Very delayed germination, chlorosis
	9	2	No germination
	22	3	" "
	19	4	Very delayed germination, chlorosis
	21	5	No germination
640	24	1	↓
	23	2	
	20	3	
	27	4	
	25	5	
		1	
		2	
		3	
		4	
		5	

seeds much smaller than previous conc.

Tech Initials: 105

Comments
 QC Check 105

Effects Key:
 W= Wilting
 D= Desiccation
 M= Mottling
 N= Normal
 X= No germination
 C= Chlorosis

Nautilus Environmental
 Washington Laboratory
 5009 Pacific Hwy. E., Suite 2
 Tacoma, WA 98424

Raw Data Sheet
 Shoot Weight Data
 14-Day Soil Toxicity Test

Client: Reference Toxicant
 Test No: RT 08070925

Start Date & Time: 8/17/09 1230
 Stop Date & Time: 8/21/09 1100

Test Species: Lactuca sativa (Butter Crunch Lettuce)

Sample ID	Cont.	Rep.	No. Seedlings Emerged	Shoot Pan Tare Wt. (g)	Pan + Wet Shoot Wt. (g)	Pan + Dry Shoot Wt. (g)
CON	2	1	12	1.41042	1.78645	1.43743
	14	2	12	1.42007	1.82718	1.44704
	15	3	12 ^{ies}	1.49846	1.86643	1.52822
	4	4	12	1.55014	1.94035	1.57976
	12	5	12	1.33421	1.75090	1.36273
40	8	1	12	1.46915	1.83519	1.49218
	7	2	12 ^{ies}	1.47076	1.79641	1.49257
	28	3	12	1.45880	1.78138	1.48185
	10	4	11	1.59765	1.93106	1.62057
	30	5	12	1.41255	1.78118	1.43792
80	6	1	12	1.50026	1.95411	1.52401
	16	2	11	1.59699	1.94661	1.62093
	3	3	11	1.41937	1.69591	1.43440
	5	4	11	1.62577	1.99314	1.65007
	11	5	12	1.66793	2.04161 ^{ies}	1.69205
160	17	1	11	1.34505	1.52859	1.35845
	13	2	9	1.35985	1.50940	1.36818
	1	3	11	1.39279	1.55164	1.40302
	26	4	11	1.44806	1.63086	1.45791
	29	5	11	1.42126	1.51767	1.42849
320	18	1	2	1.34474 ^{ies}	1.34982	1.34334 ^{ies}
	9	2	0	—	—	—
	22	3	0	—	—	—
	19	4	4	1.34882	1.36232	1.34918
	21	5	0	—	—	—
640	24	1	0	—	—	—
	23	2	0	—	—	—
	20	3	0	—	—	—
	27	4	0	1.59238	—	—
	25	5	0	—	—	—
Tech Initials:			185	AF	105	105

Comments: Initial number of seeds added to each replicate = 12

Date/Time in: 8/21/09 1215

Oven Temp (°C): 64.8

Date/Time out: 8/22/09 1230

Oven Temp (°C): 76.0

QC Check:

185

APPENDIX D - Analytical Results

	mg/kg	
CP-E-0	ND	37
CP-E-1	590	
CP-E-2.5	5600	
CP-E-5	5100	
CP-E-7.5	4700	
CP-E-10	8500	

CP-L-0	ND	31
CP-L-1	1700	
CP-L-2.5	1900	
CP-L-5	4300	
CP-L-7.5	6300	
CP-L-10	9800	

APPENDIX E - Chain-of-Custody Form

CHAIN OF CUSTODY

Sample Matrix	Analysis Containers						Recorded by: <u>SGE</u> Checked by: _____
	Lettuce Bioassay	Earthworm Bioassay					
Place COC Form Number Label Here or write in seq. number below. <input type="text"/>							
Place Sample ID Label Here or Write ID Number Here <input type="text" value="B-2-0809"/>	Soil	Date: 9/10/09					Temp(°C): 3.2 Number of containers 1
		Time:	X	X			
Place Sample ID Label Here or Write ID Number Here <input type="text"/>	Soil	Date:					Number of containers
		Time:					
Place Sample ID Label Here or Write ID Number Here <input type="text"/>	Soil	Date:					Number of containers
		Time:					
Place Sample ID Label Here or Write ID Number Here <input type="text"/>	Soil	Date:					Number of containers
		Time:					
Place Sample ID Label Here or Write ID Number Here <input type="text"/>	Soil	Date:					Number of containers
		Time:					
Place Sample ID Label Here or Write ID Number Here <input type="text"/>	Soil	Date:					Number of containers
		Time:					
Place Sample ID Label Here or Write ID Number Here <input type="text"/>	Soil	Date:					Number of containers
		Time:					
Place Sample ID Label Here or Write ID Number Here <input type="text"/>	Soil	Date:					Number of containers
		Time:					

Comments
 Custom Plywood RI/FS
 Nautilus Environmental Project Manager - M. Rempel-Hester
 Phone: (253) 922-4296; e-mail:
 AMEC Geomatrix contact is Steve Ellis (425) 921-4022
 Cell (206) 919-0683; e-mail: steve.g.ellis@amec.com

Relinquished By	Transported By	Received By
Name: <u>Steve Ellis</u>	CPC	Name: <u>Inolra Santiago</u>
Date: <u>8/10/09</u>		Date: <u>8/10/09</u>
Time: <u>8:30</u>		Time: <u>10:25</u>
Name:		Name:
Date:		Date:
Time:		Time:
Name:		Name:
Date:		Date:
Time:		Time:

Nautilus Sample No.: SDA-027