

Date : 03-OCT-2018 14:14

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02

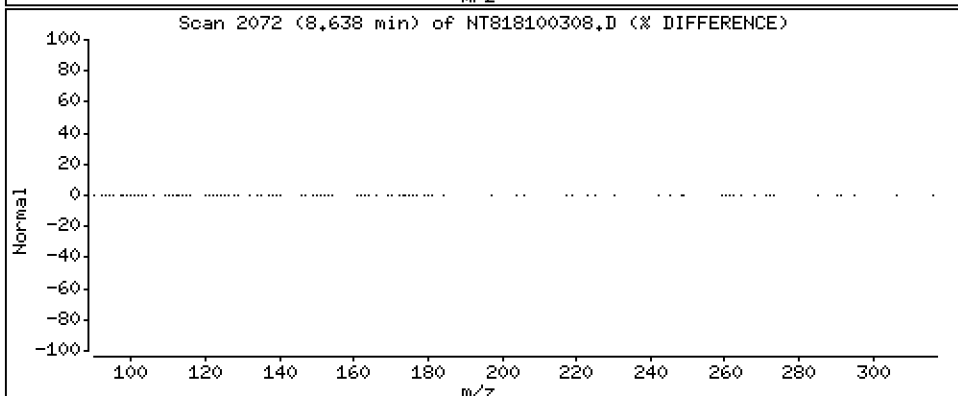
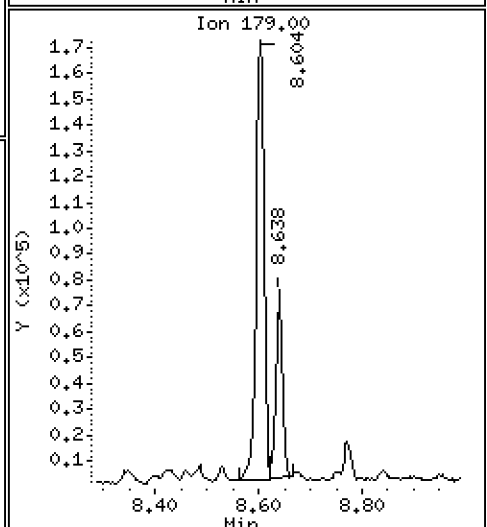
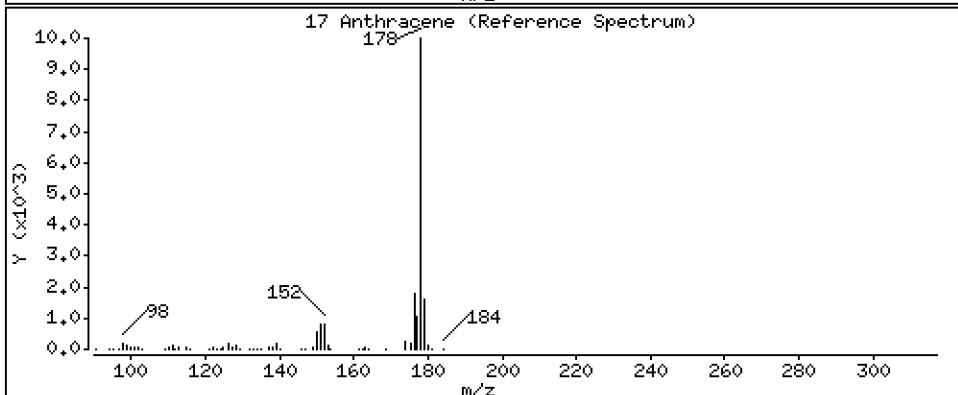
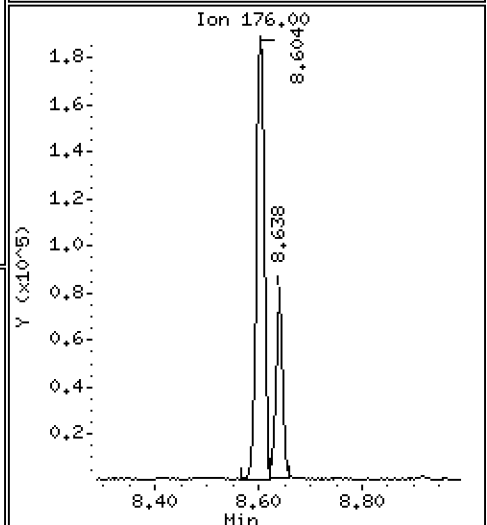
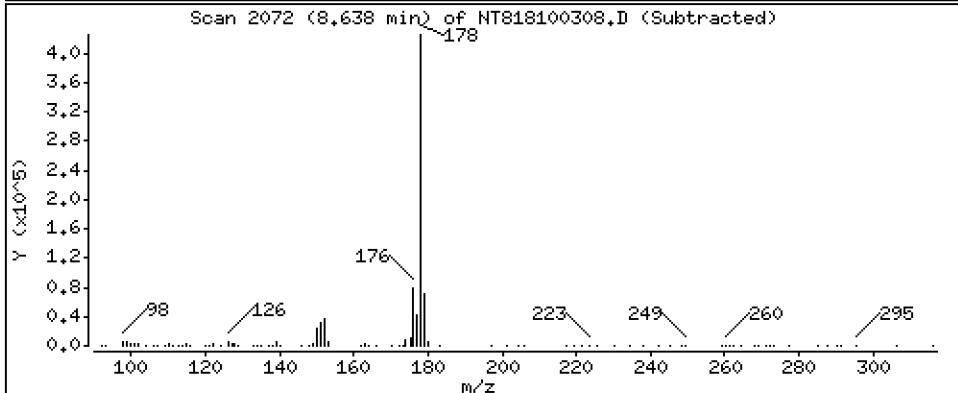
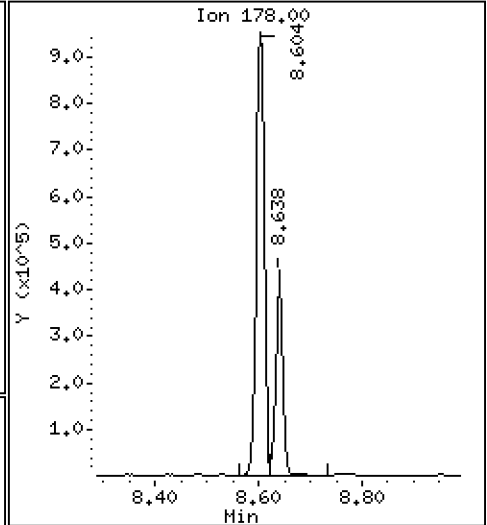
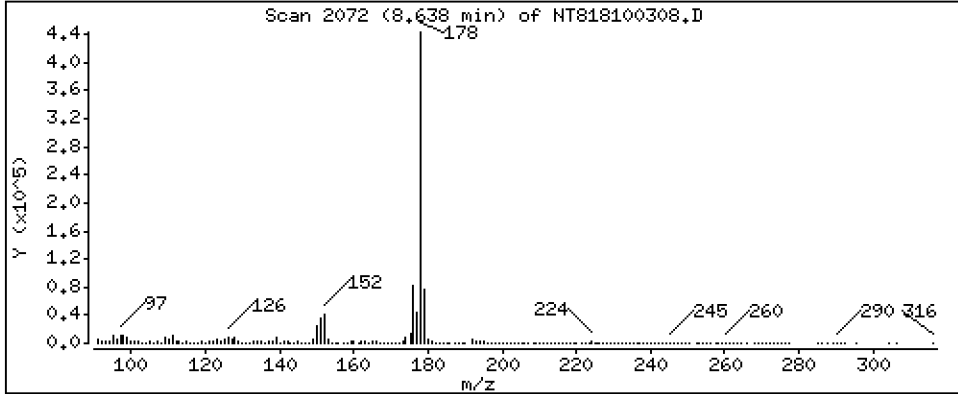
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 5,043 ug/mL

17 Anthracene



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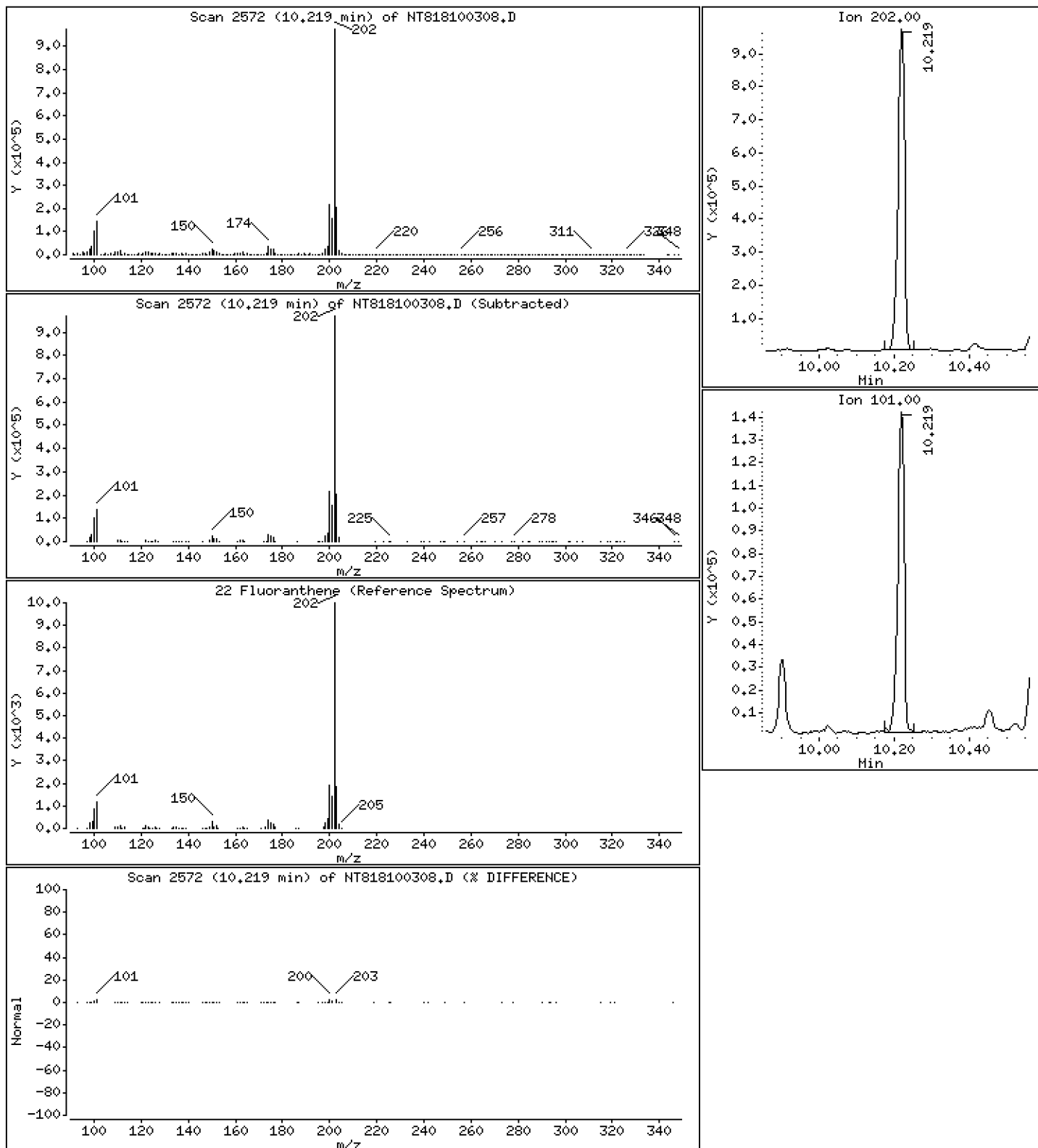
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 12,06 ug/mL



Date : 03-OCT-2018 14:14

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Sample Info: 18I0285-02

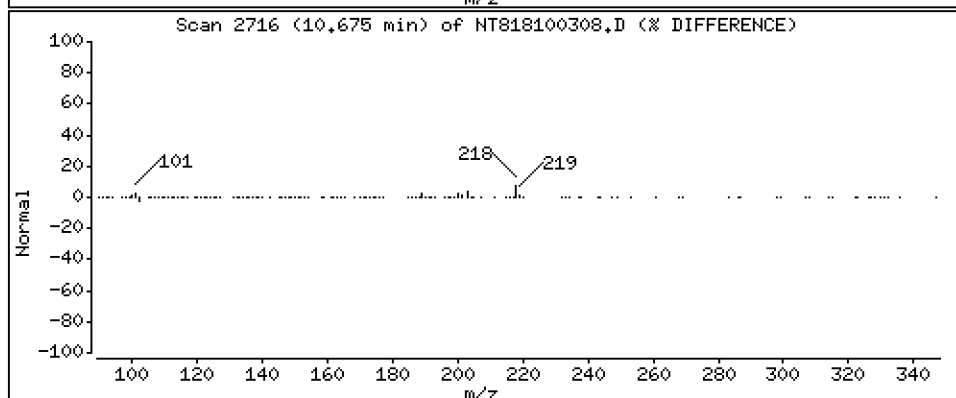
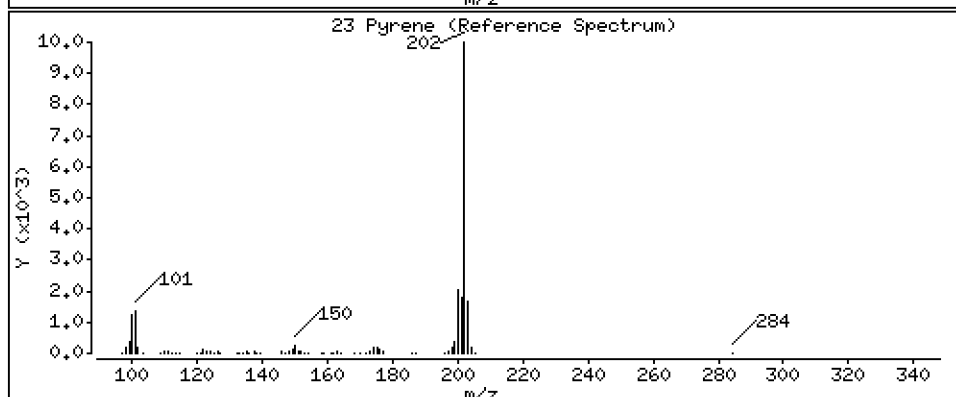
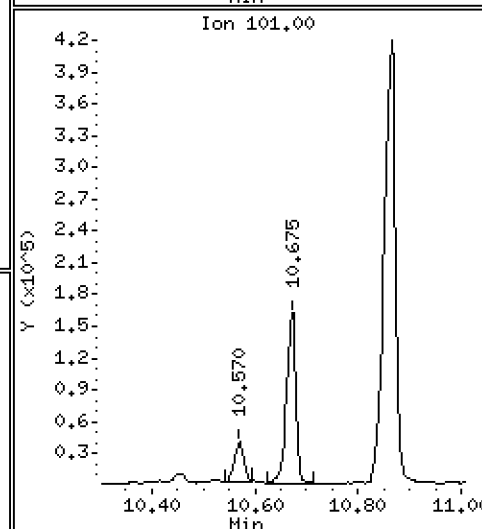
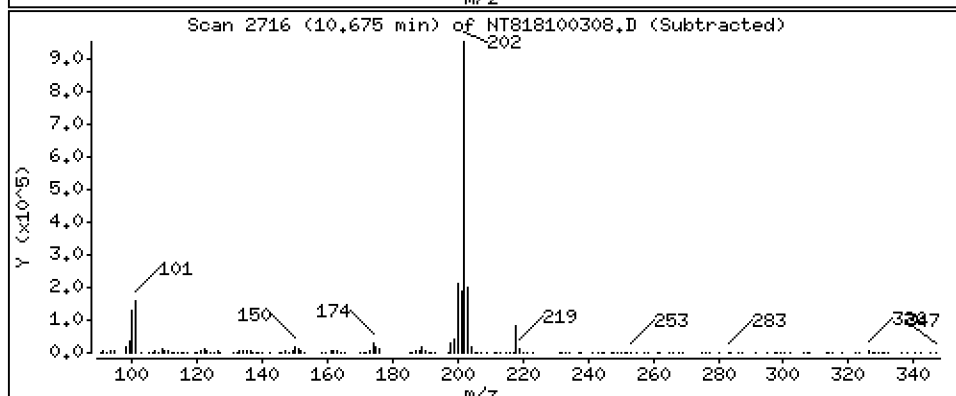
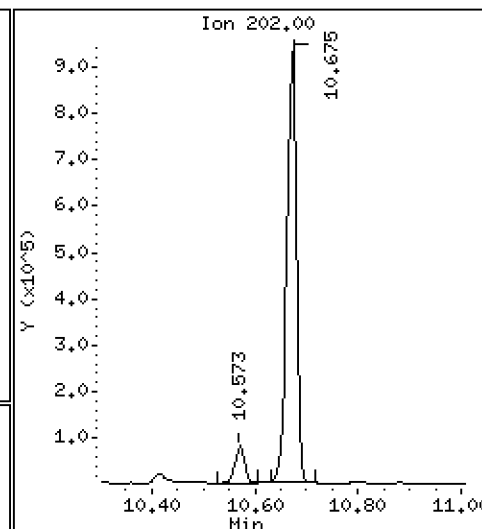
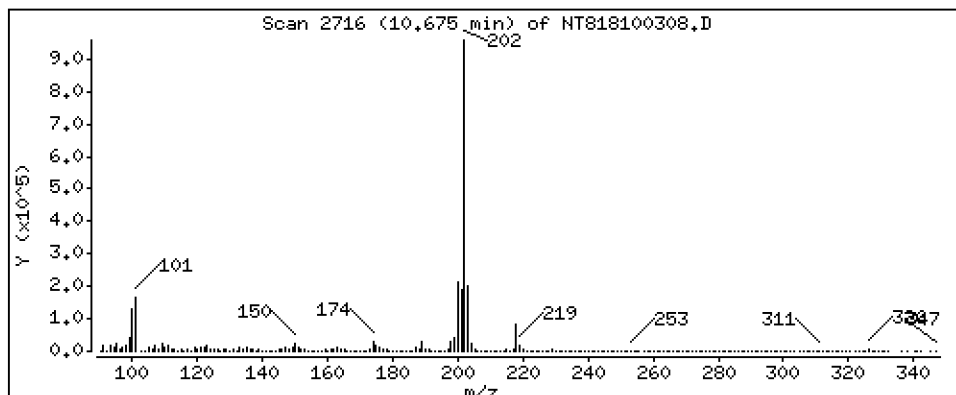
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 12,66 ug/mL



Date : 03-OCT-2018 14:14

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Instrument: nt8.i

Sample Info: 18I0285-02

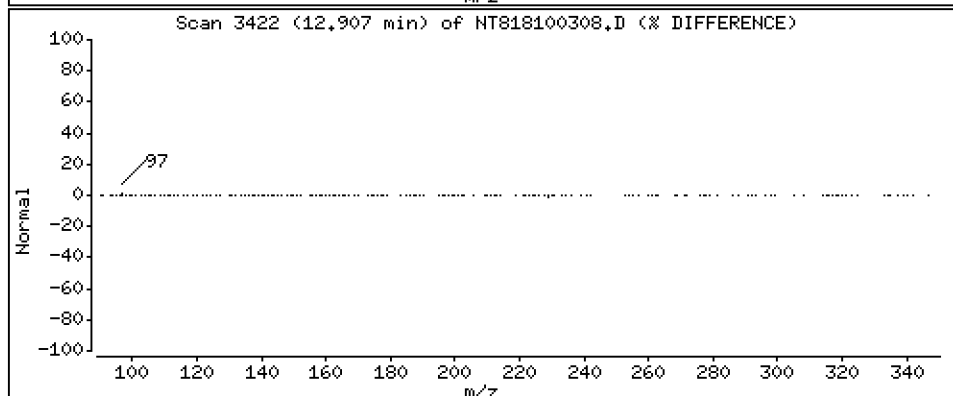
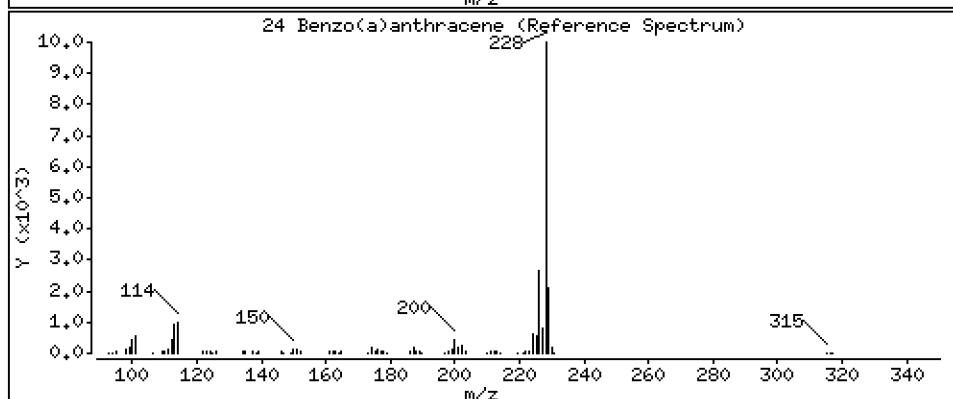
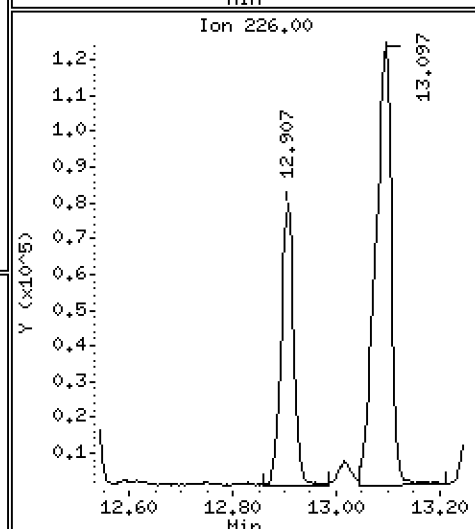
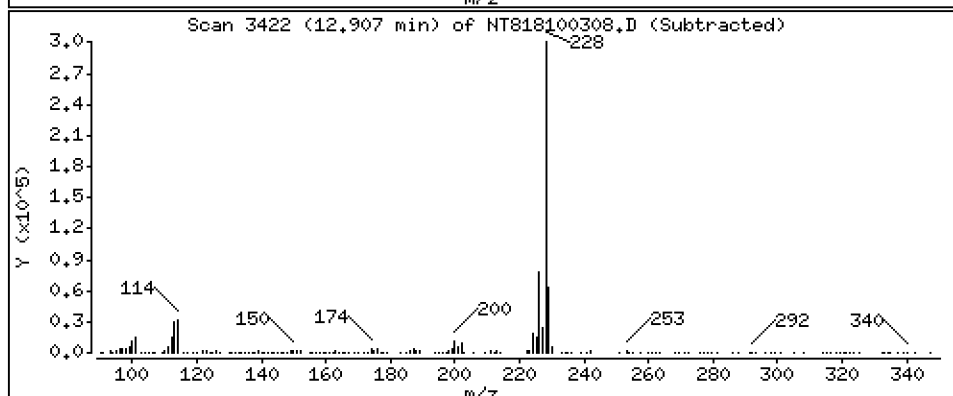
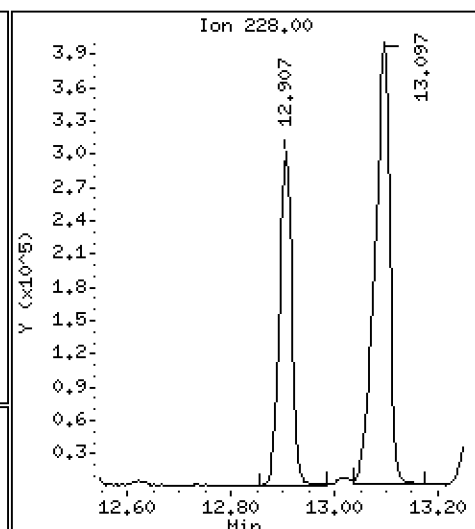
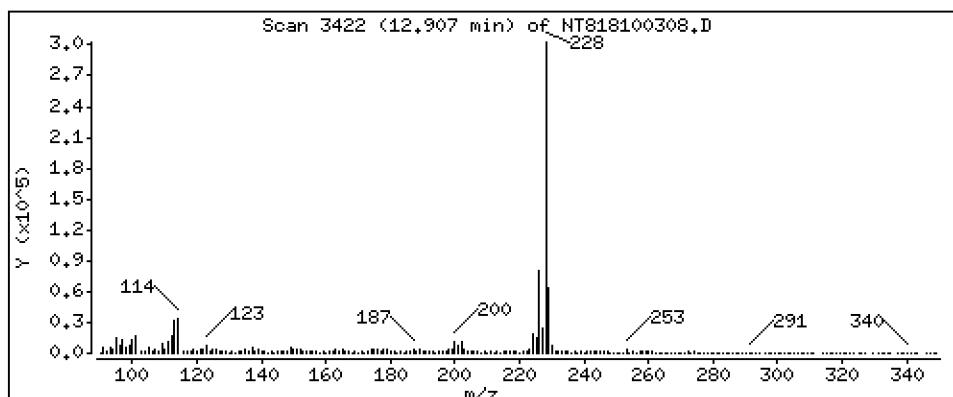
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 5,204 ug/mL



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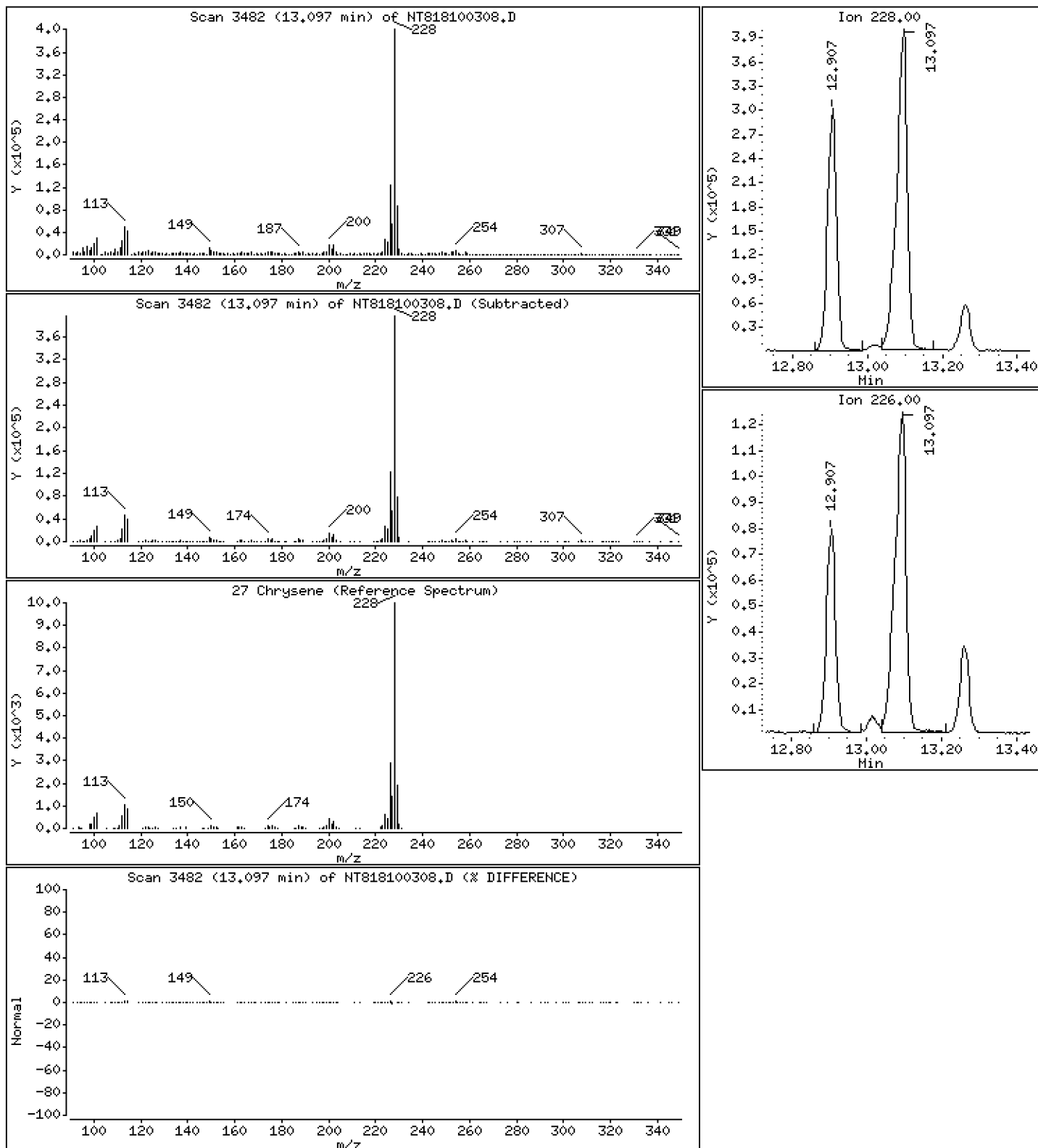
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 8,673 ug/mL



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Sample Info: 1810285-02

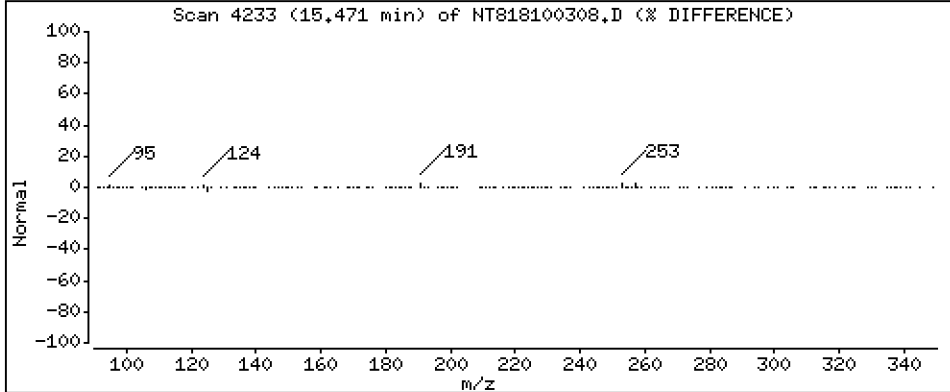
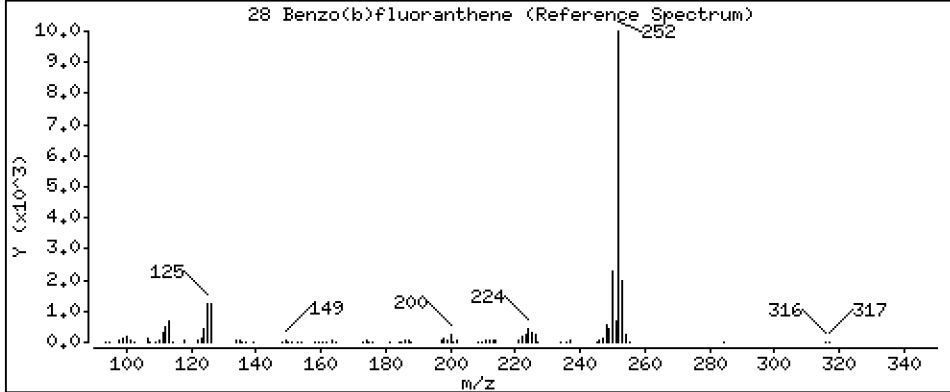
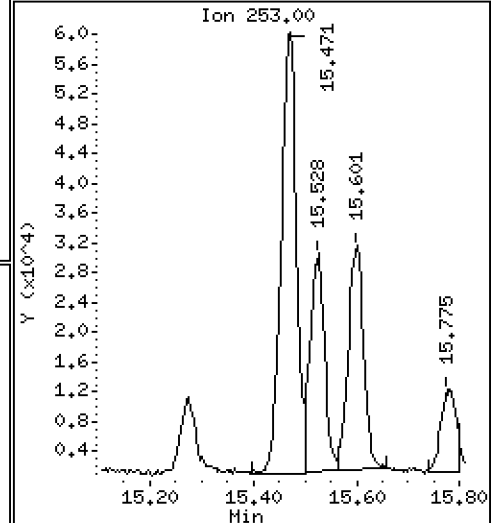
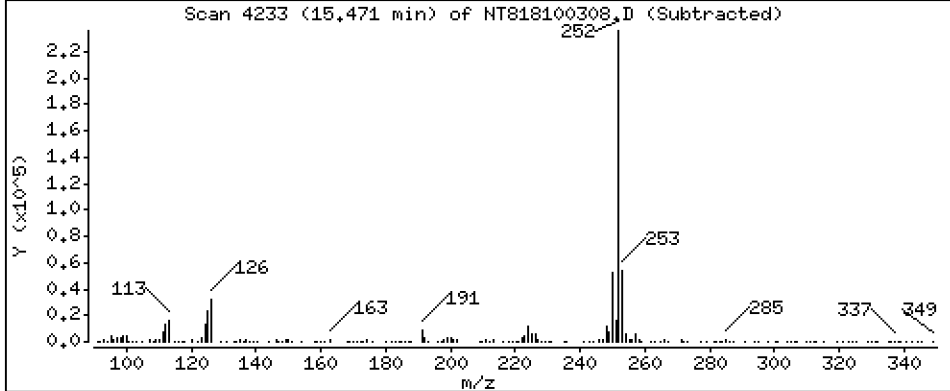
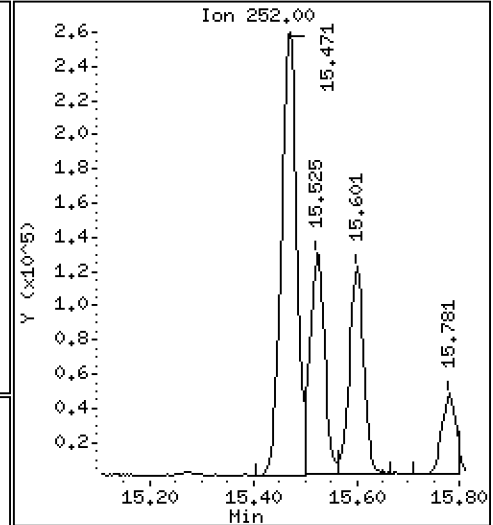
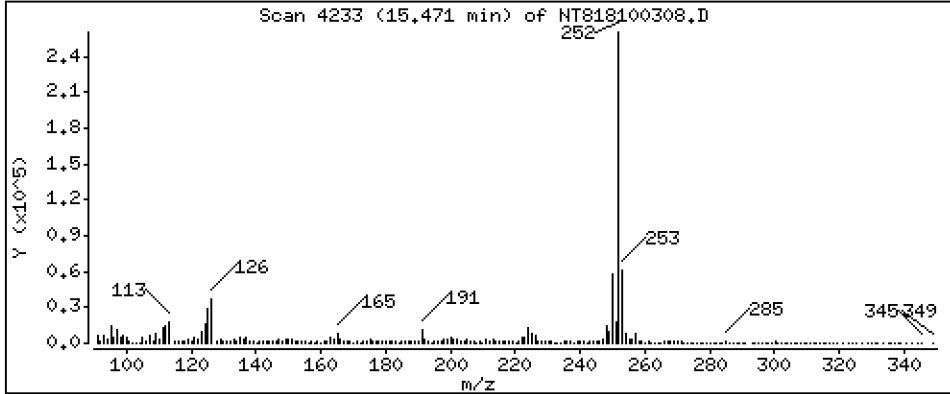
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 5,117 ug/mL



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Sample Info: 1810285-02

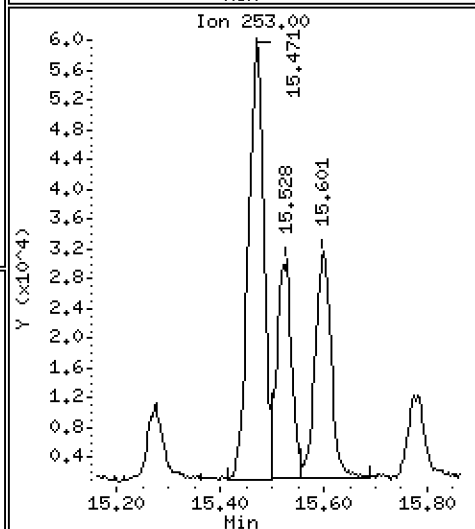
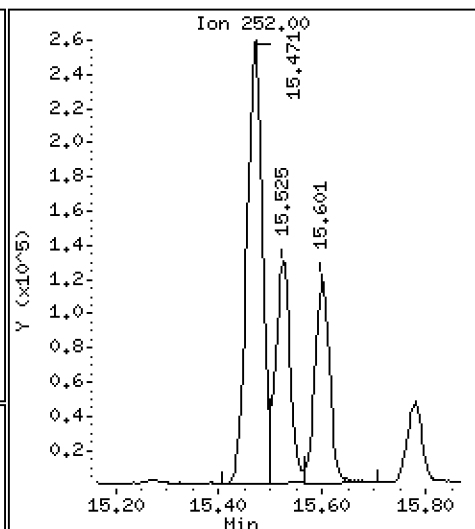
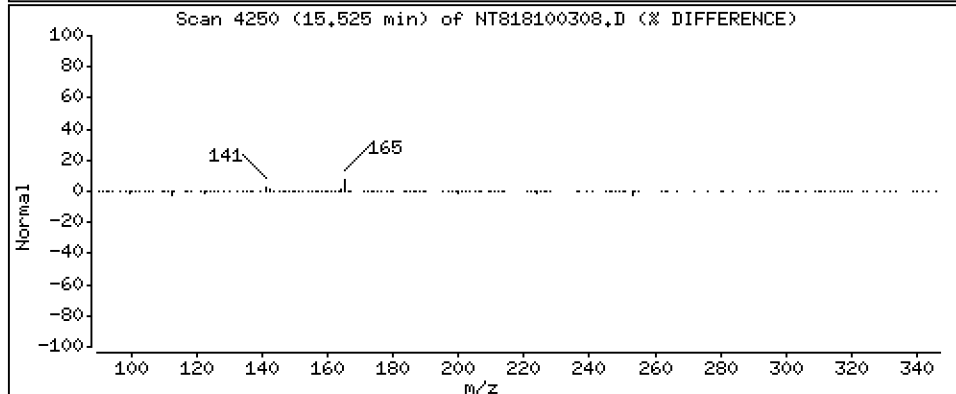
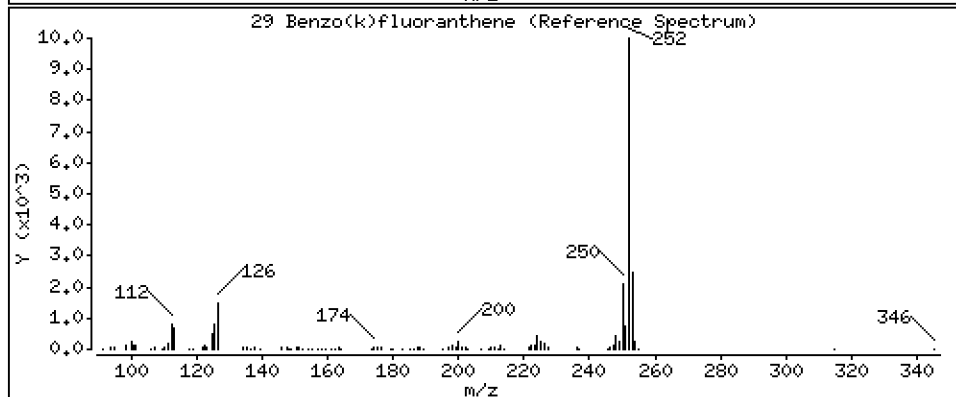
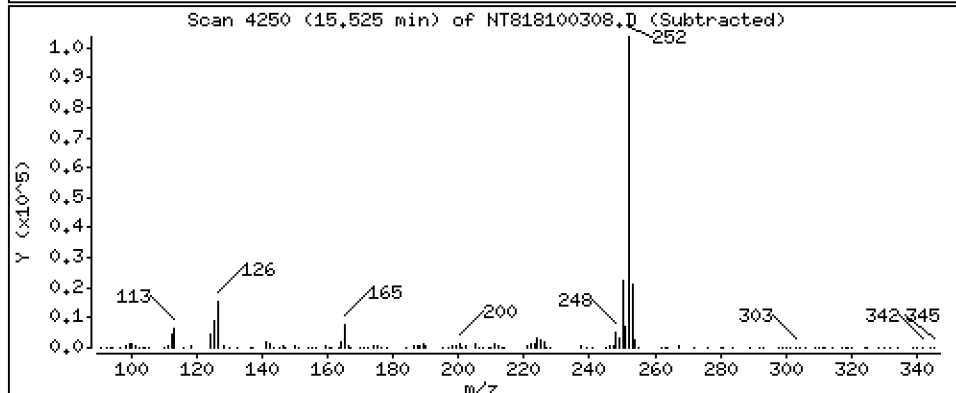
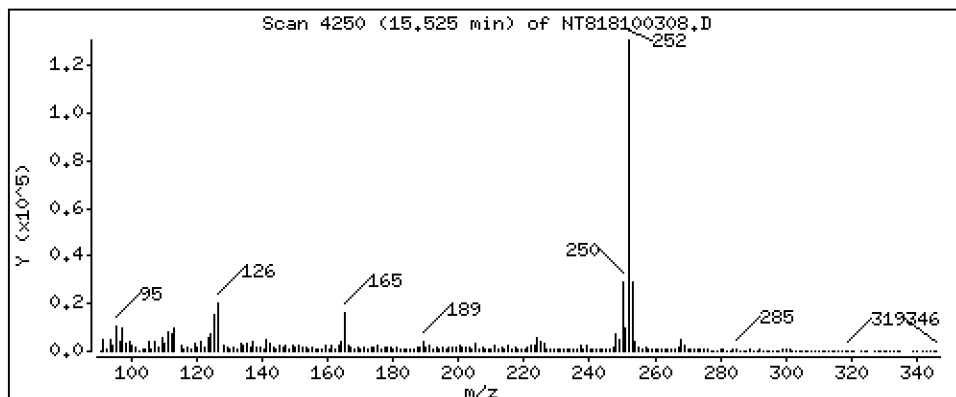
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 2,499 ug/mL



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Instrument: nt8.i

Sample Info: 1810285-02

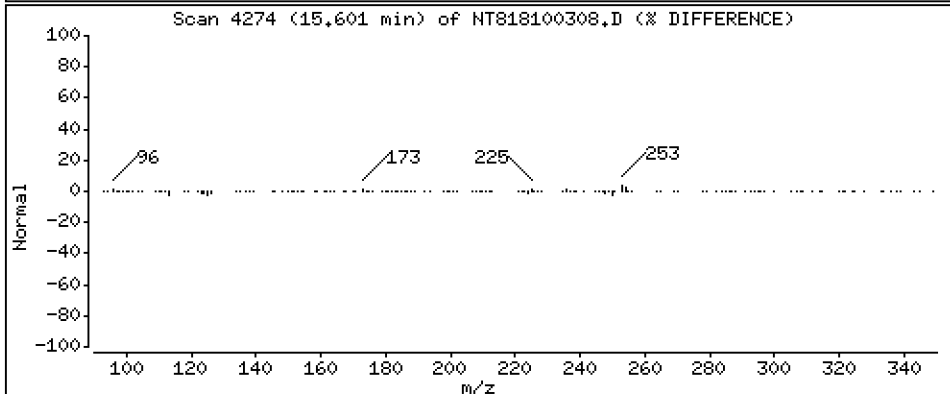
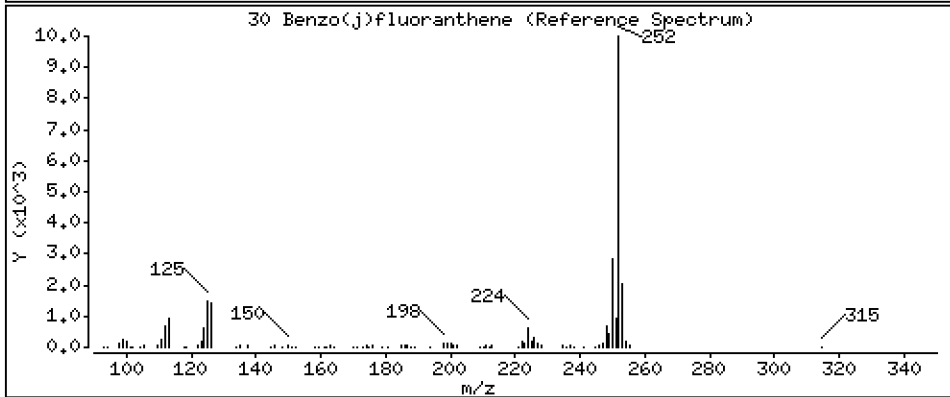
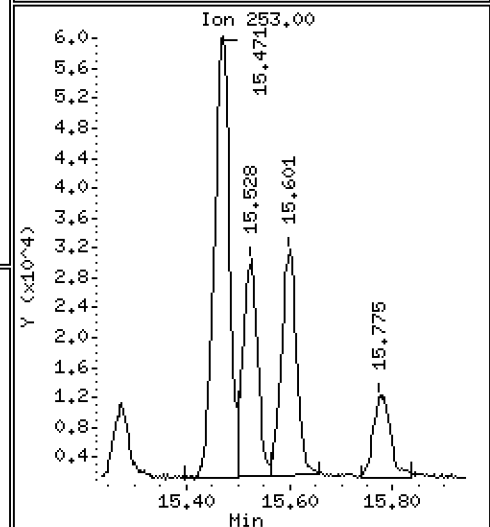
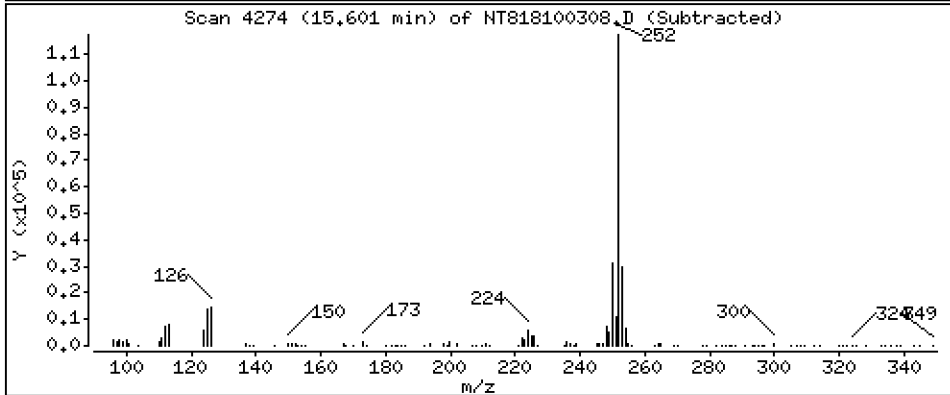
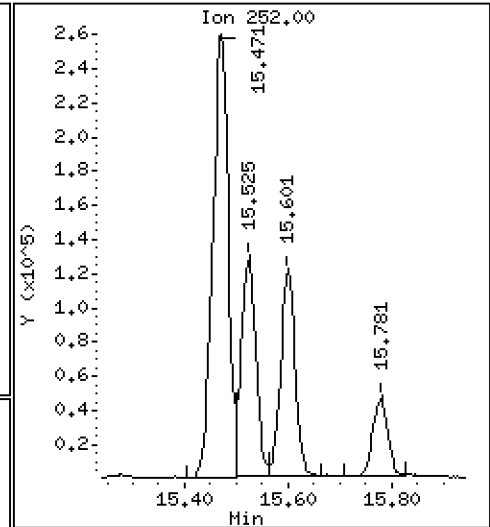
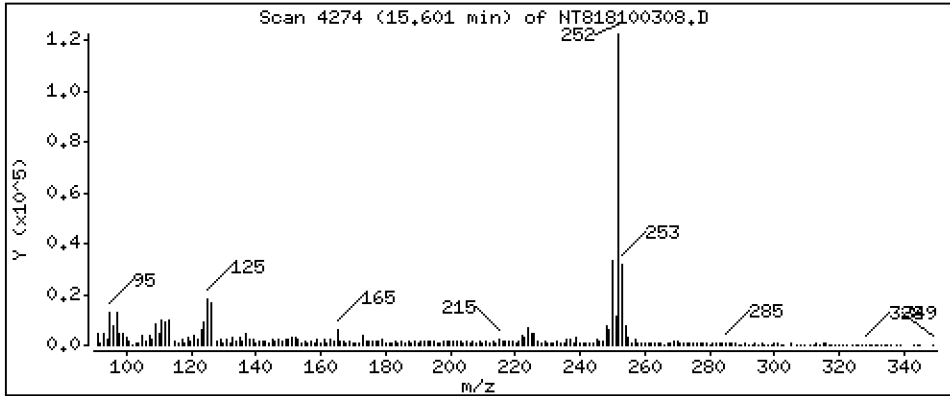
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 2,362 ug/mL



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Instrument: nt8.i

Sample Info: 1810285-02

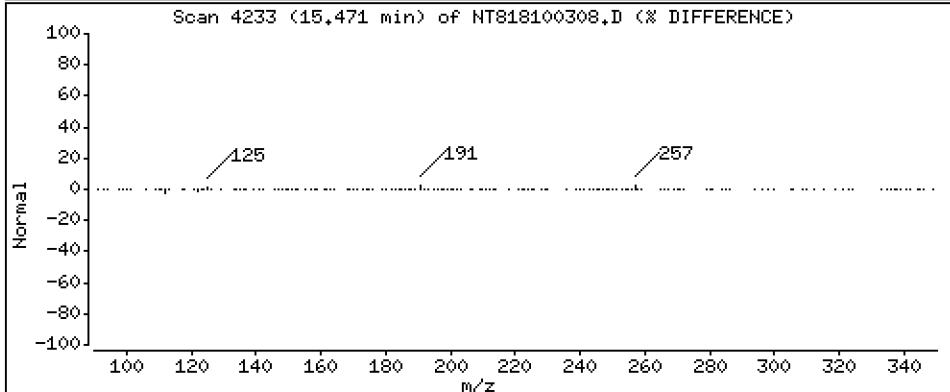
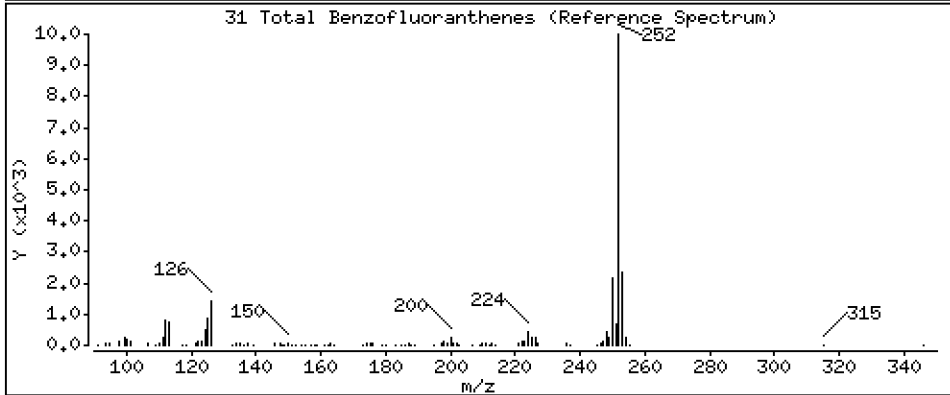
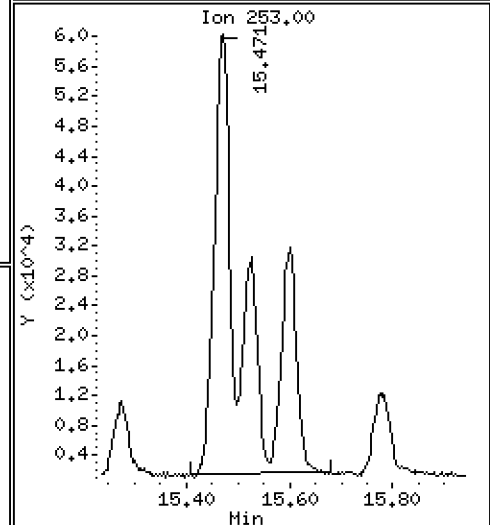
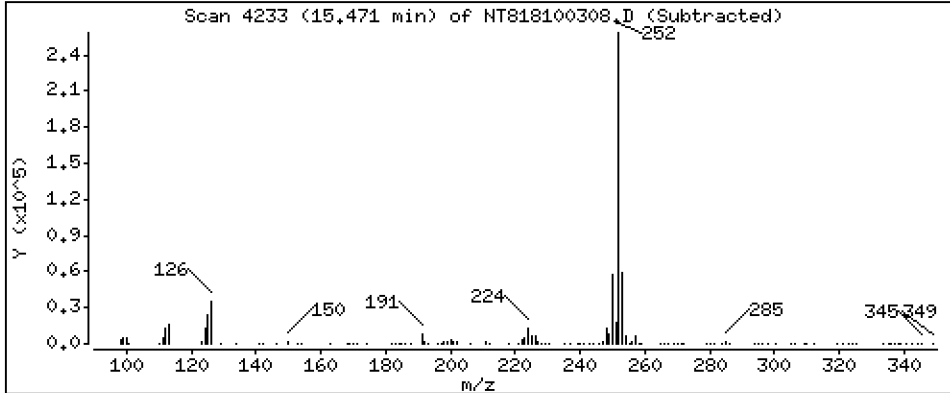
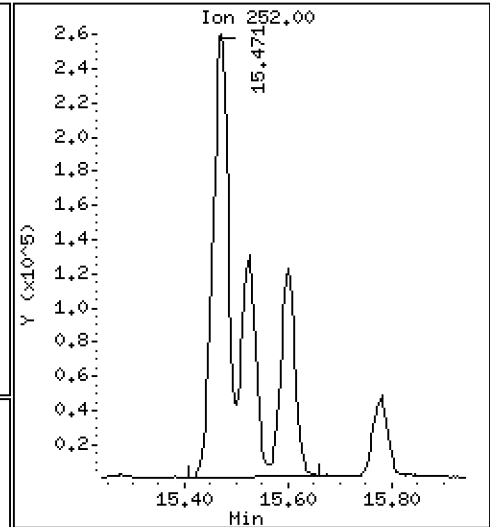
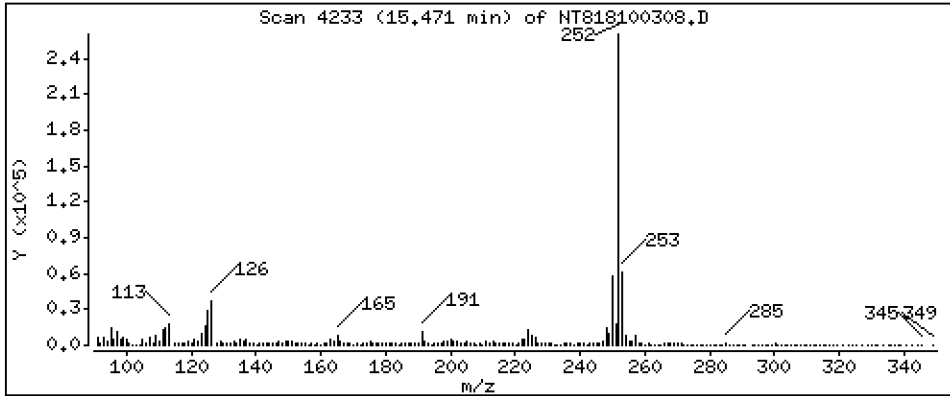
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 9,966 ug/mL



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Sample Info: 1810285-02

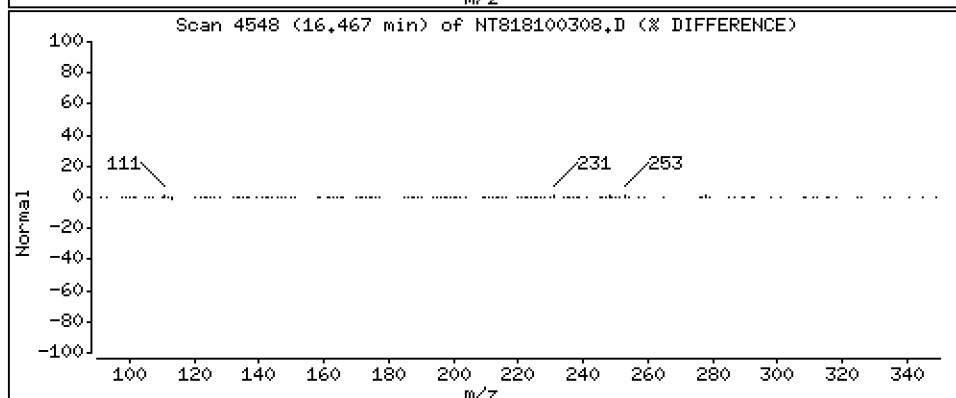
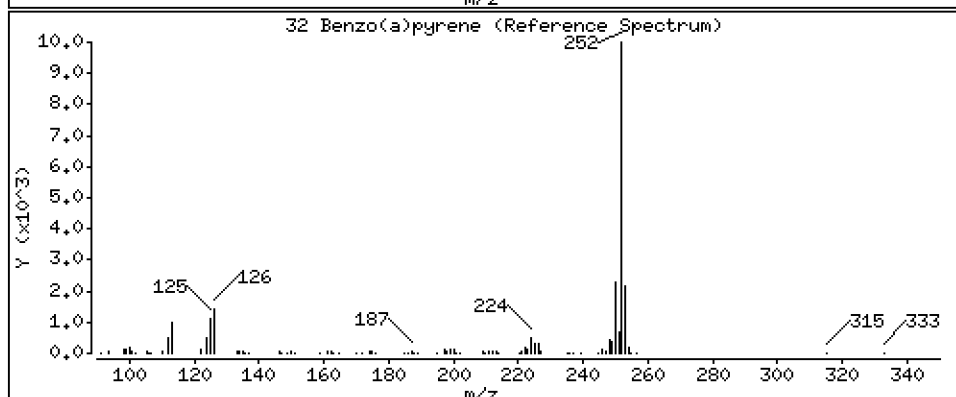
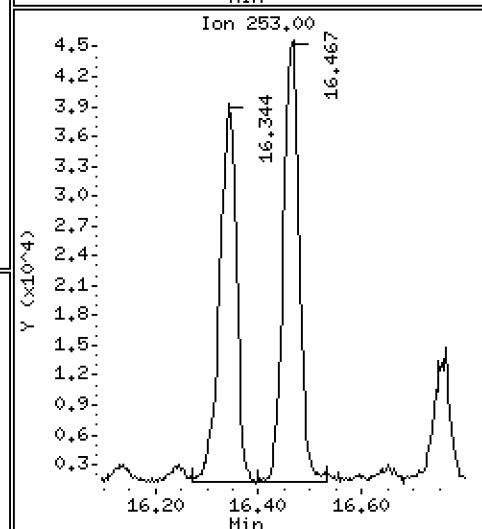
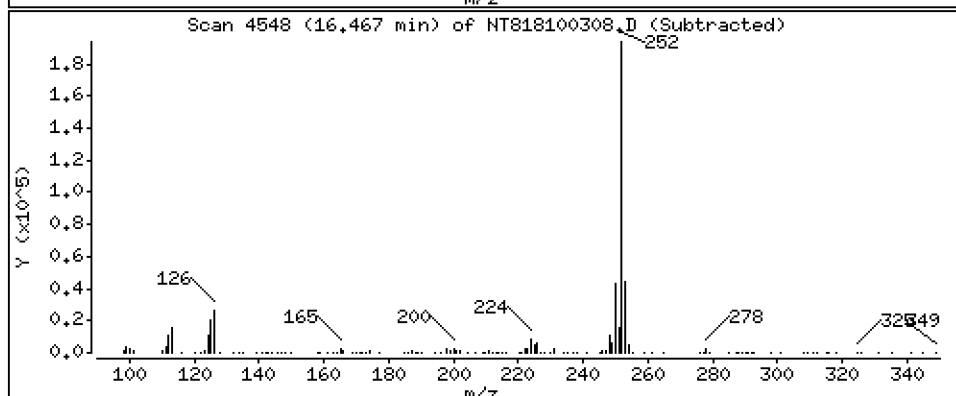
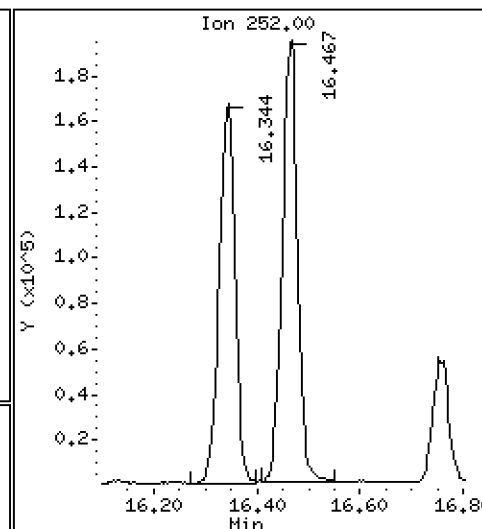
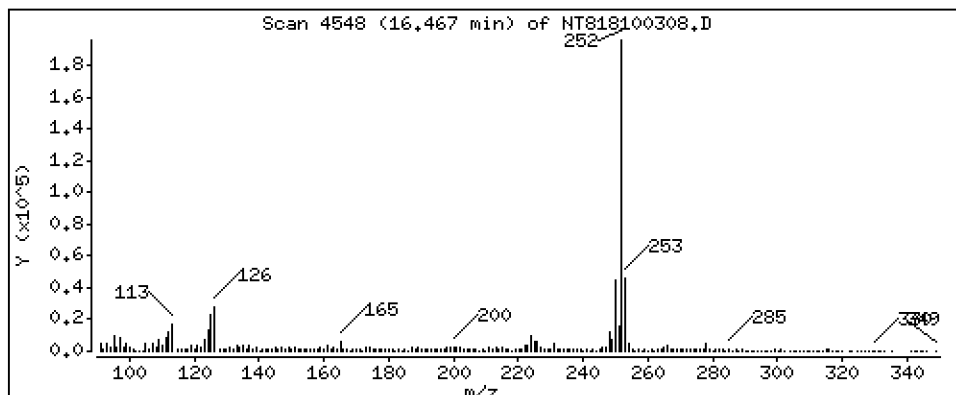
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 4,283 ug/mL



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Instrument: nt8.i

Sample Info: 18I0285-02

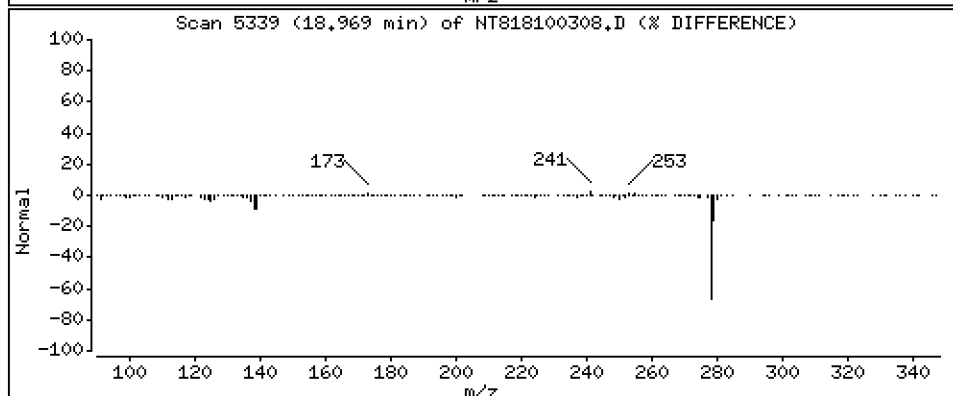
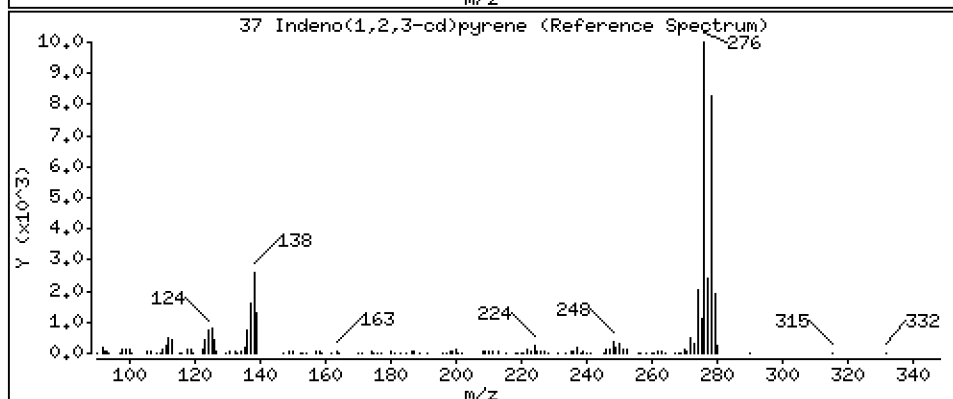
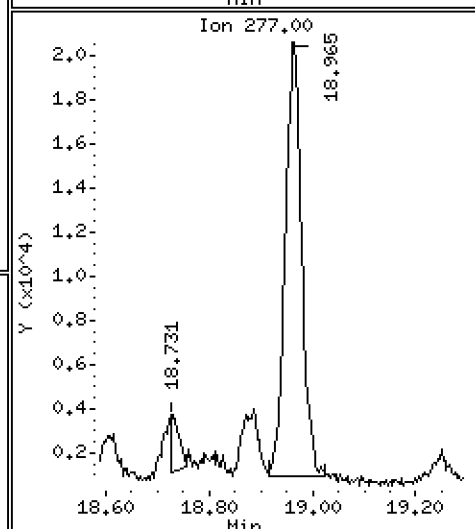
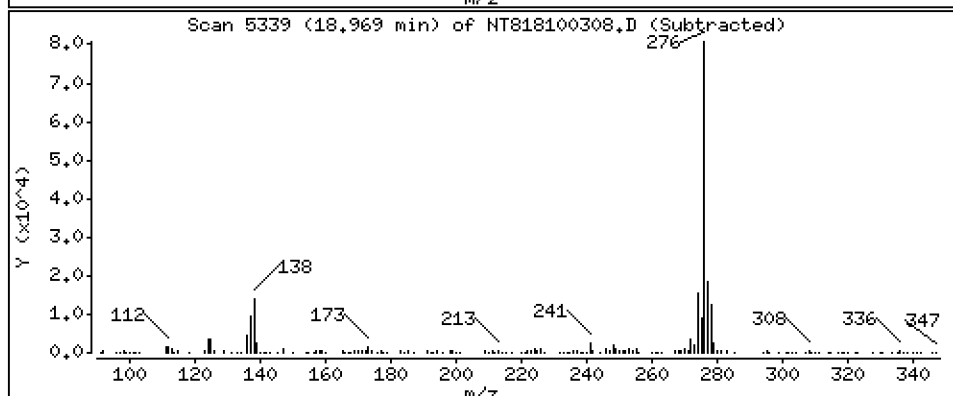
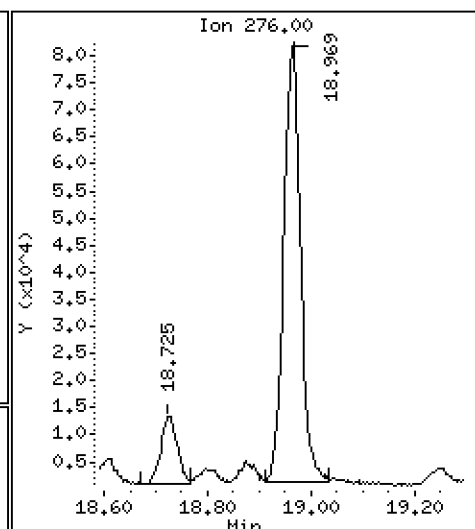
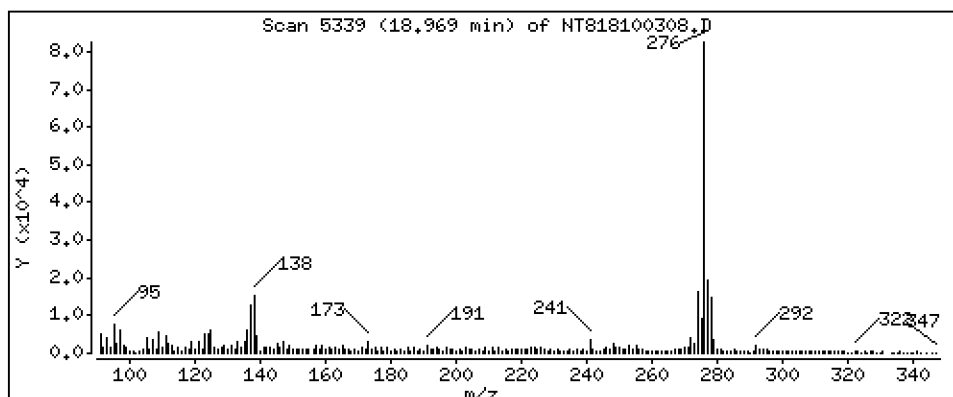
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 1,819 ug/mL



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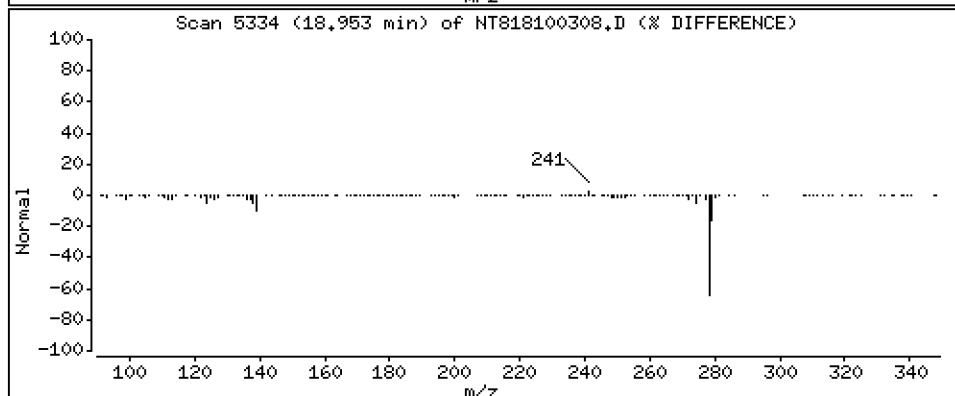
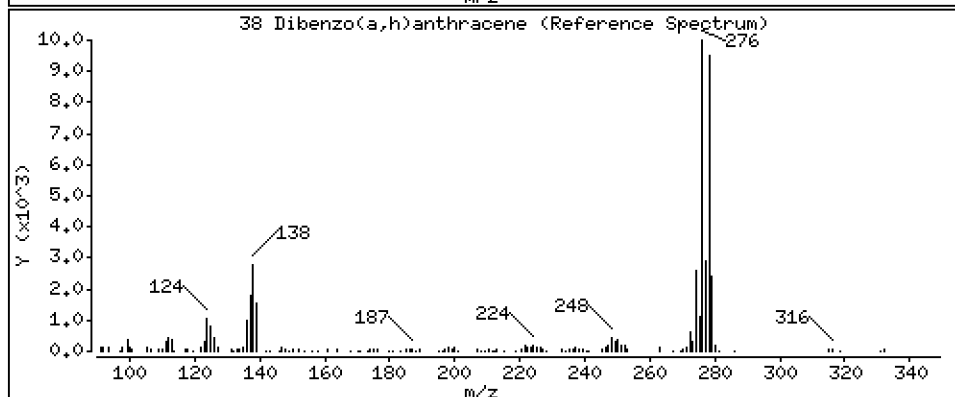
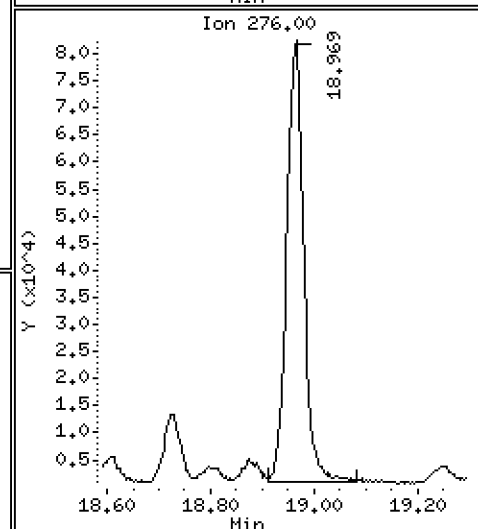
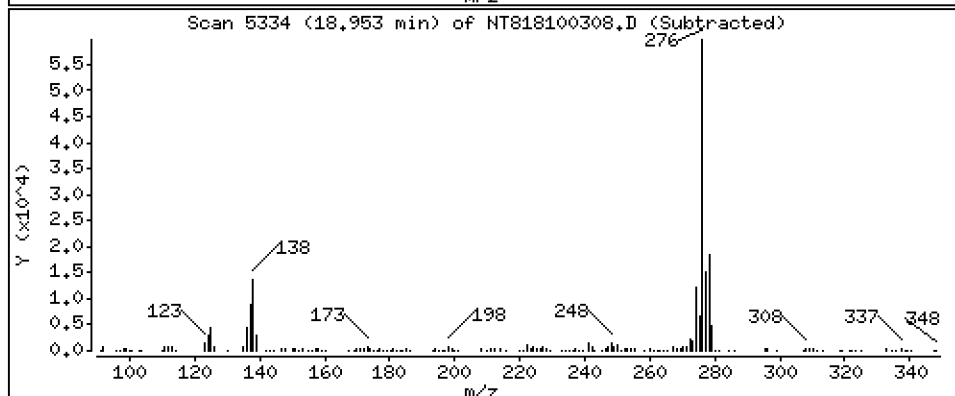
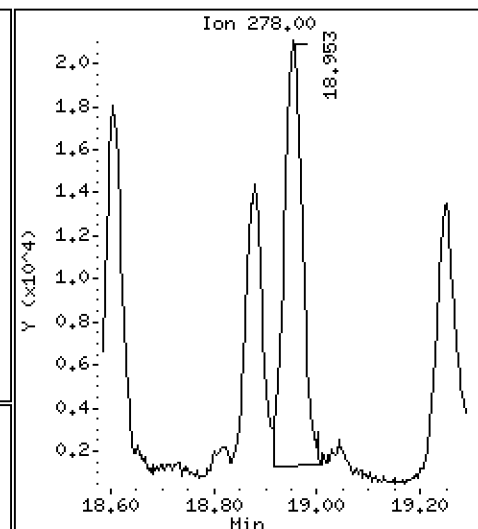
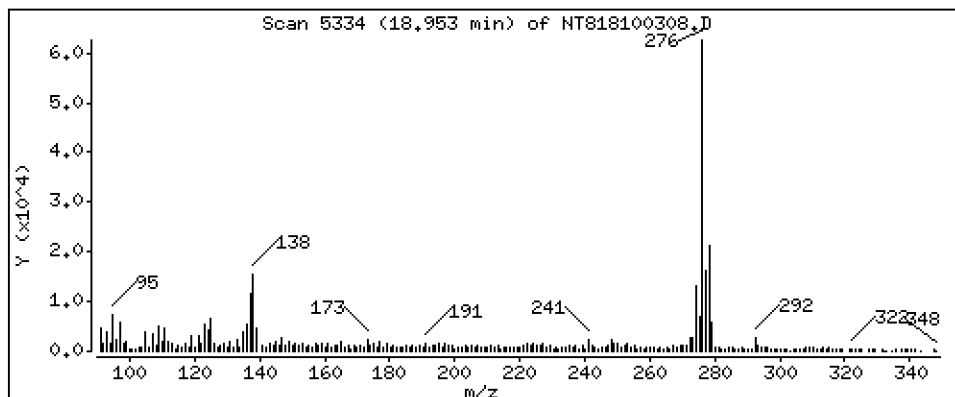
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 0,5696 ug/mL



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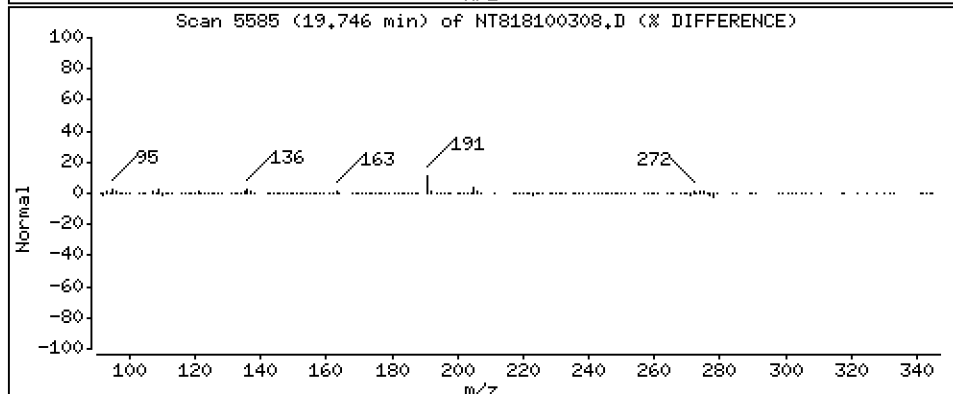
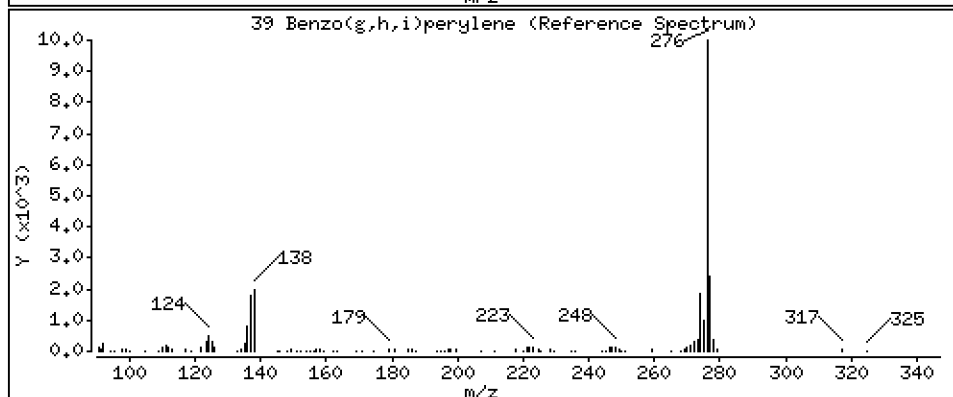
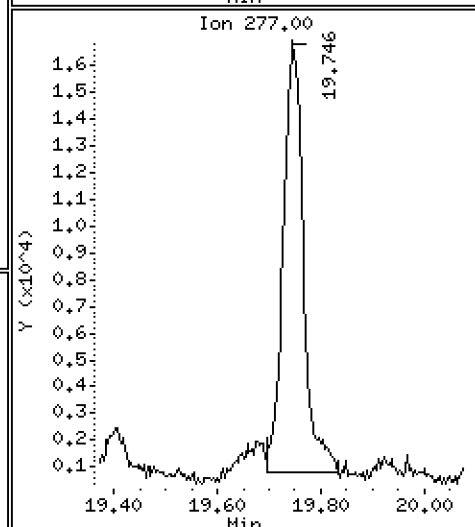
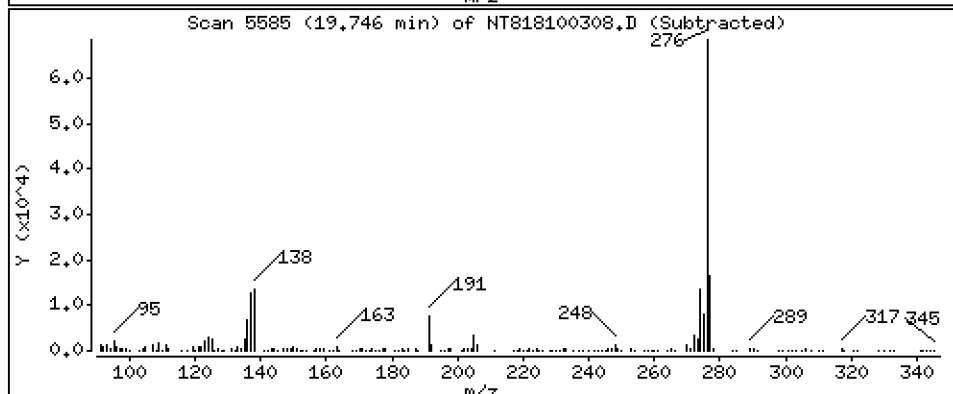
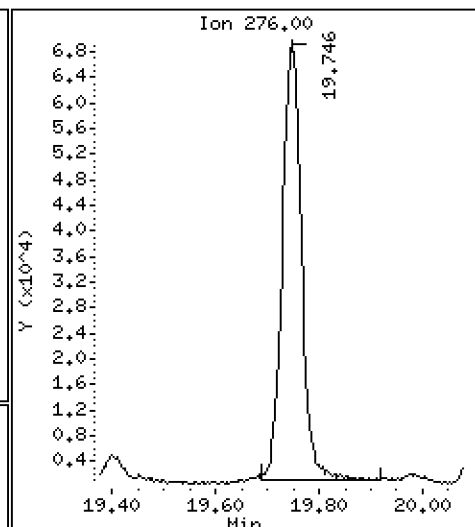
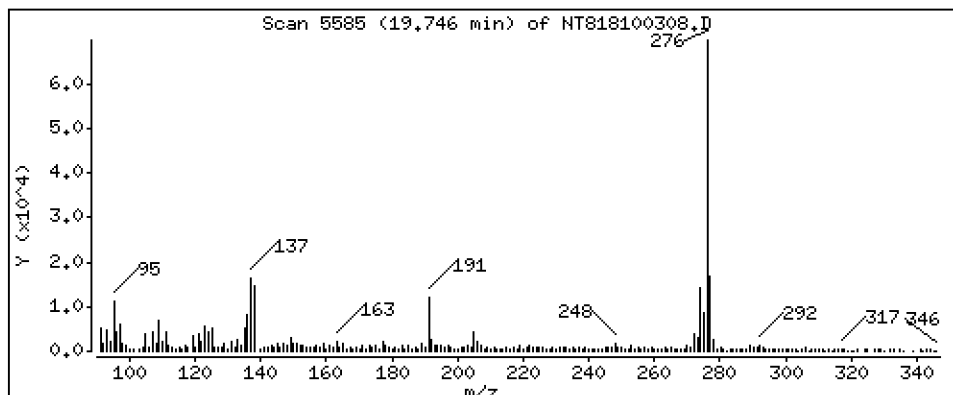
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 2,199 ug/mL



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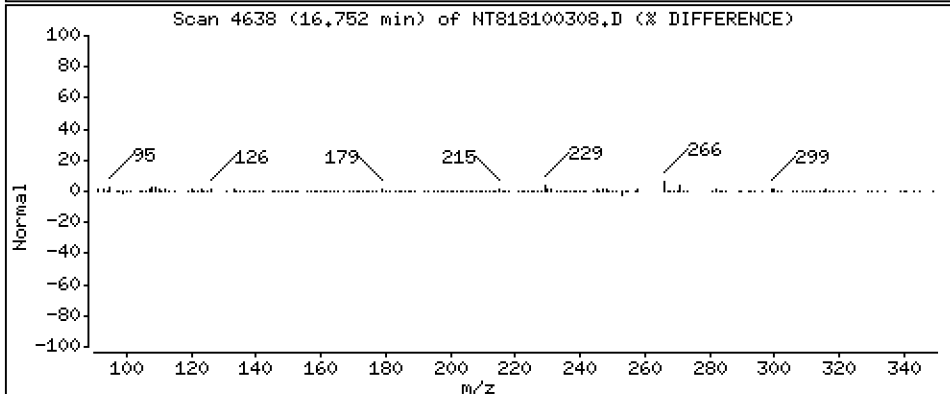
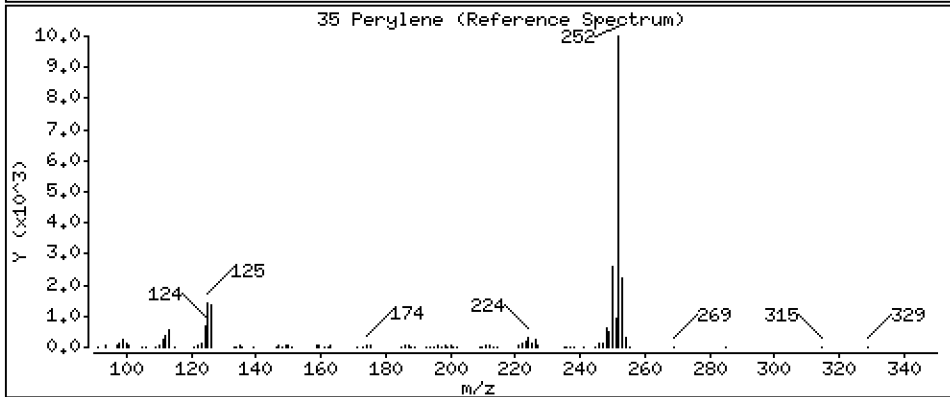
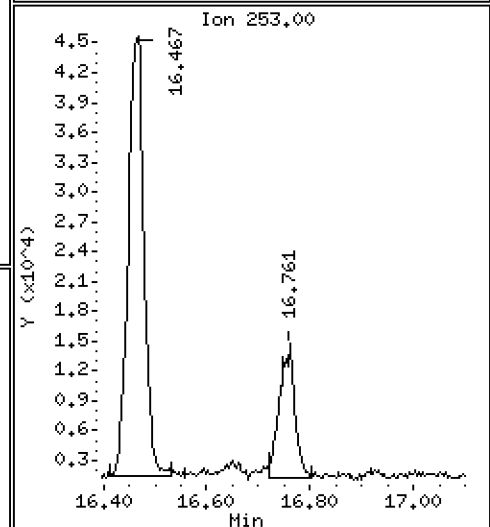
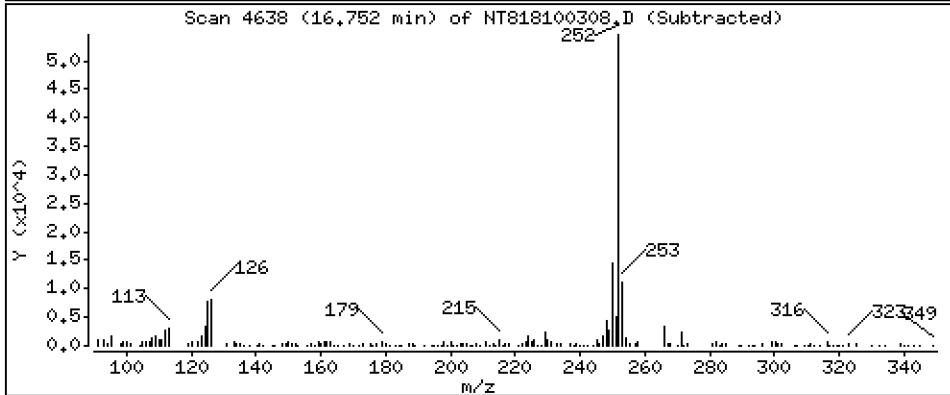
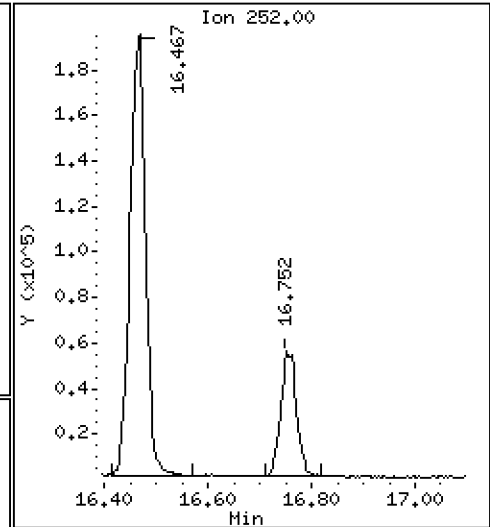
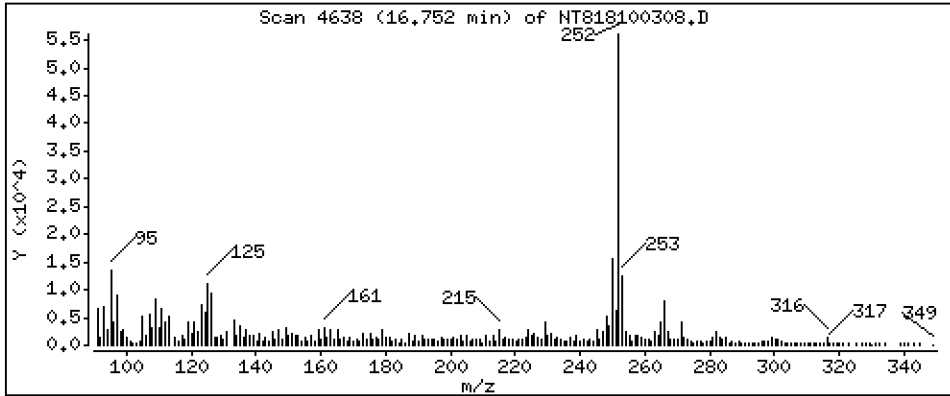
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 1,200 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100308.D
 Lab Smp Id: 18I0285-02
 Inj Date : 03-OCT-2018 14:14
 Operator : JZ Inst ID: nt8.i
 Smp Info : 18I0285-02
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
* 1 Naphthalene-d8	136		4.312	4.319	(1.000)	158169	2.00000	
2 Naphthalene	128		4.341	4.347	(1.007)	1219309	14.1444	14.14
\$ 3 2-Methylnaphthalene-d10	152		5.036	5.040	(1.168)	99191	1.77327	1.773
4 2-Methylnaphthalene	141		5.081	5.087	(1.178)	121515	2.51385	2.514
5 1-methylnaphthalene	141		5.277	5.280	(1.224)	87143	1.75101	1.751
9 Acenaphthylene	152		6.453	6.453	(0.983)	141729	1.61715	1.617
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	82628	2.00000	
11 Acenaphthene	153		6.614	6.614	(1.008)	243254	4.11750	4.118
12 Dibenzofuran	168		6.760	6.763	(1.030)	348612	4.25969	4.260
14 Fluorene	166		7.231	7.231	(1.102)	299558	4.41939	4.419
* 15 Phenanthrene-d10	188		8.565	8.565	(1.000)	158309	2.00000	
16 Phenanthrene	178		8.603	8.597	(1.004)	1003991	11.7595	11.76
17 Anthracene	178		8.638	8.638	(1.008)	421578	5.04344	5.043
22 Fluoranthene	202		10.219	10.209	(1.193)	1197074	12.0595	12.06
\$ 21 Fluoranthene-d10	212		10.184	10.178	(1.189)	203660	2.03705	2.037
23 Pyrene	202		10.674	10.655	(0.820)	1271637	12.6610	12.66
24 Benzo(a)anthracene	228		12.907	12.897	(0.991)	505449	5.20447	5.204
* 25 Chrysene-d12	240		13.023	13.014	(1.000)	168799	2.00000	
27 Chrysene	228		13.096	13.080	(1.006)	796140	8.67331	8.673
28 Benzo(b)fluoranthene	252		15.471	15.458	(0.927)	540099	5.11673	5.117
29 Benzo(k)fluoranthene	252		15.525	15.515	(0.930)	261136	2.49861	2.499
30 Benzo(j)fluoranthene	252		15.601	15.591	(0.935)	234029	2.36234	2.362
31 Total Benzofluoranthenes	252		15.471	15.591	(0.927)	1021052	9.96639	9.966 (M)
32 Benzo(a)pyrene	252		16.467	16.451	(0.987)	407811	4.28288	4.283
* 33 Perylene-d12	264		16.685	16.672	(1.000)	169268	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.968	18.943	(1.137)	182479	1.81917	1.819
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.876	18.861	(1.131)	182142	2.39868	2.399
38 Dibenzo(a,h)anthracene	278		18.952	18.936	(1.136)	48119	0.56959	0.5696
39 Benzo(g,h,i)perylene	276		19.746	19.727	(1.183)	178834	2.19900	2.199
35 Perylene	252		16.751	16.745	(1.004)	117870	1.19996	1.200

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100308.D Calibration Time: 11:20
 Lab Smp Id: 18I0285-02
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	158169	19.94
10 Acenaphthene-d10	72272	36136	144544	82628	14.33
15 Phenanthrene-d10	156058	78029	312116	158309	1.44
25 Chrysene-d12	174389	87195	348778	168799	-3.21
33 Perylene-d12	150701	75351	301402	169268	12.32

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.15
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	-0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.57	-0.00
25 Chrysene-d12	13.01	12.51	13.51	13.02	0.07
33 Perylene-d12	16.67	16.17	17.17	16.69	0.08

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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100308.D

Lab ID: 18I0285-02
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 14:14

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.927	0.935	-0.0079	Total Benzofluoranthenes

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

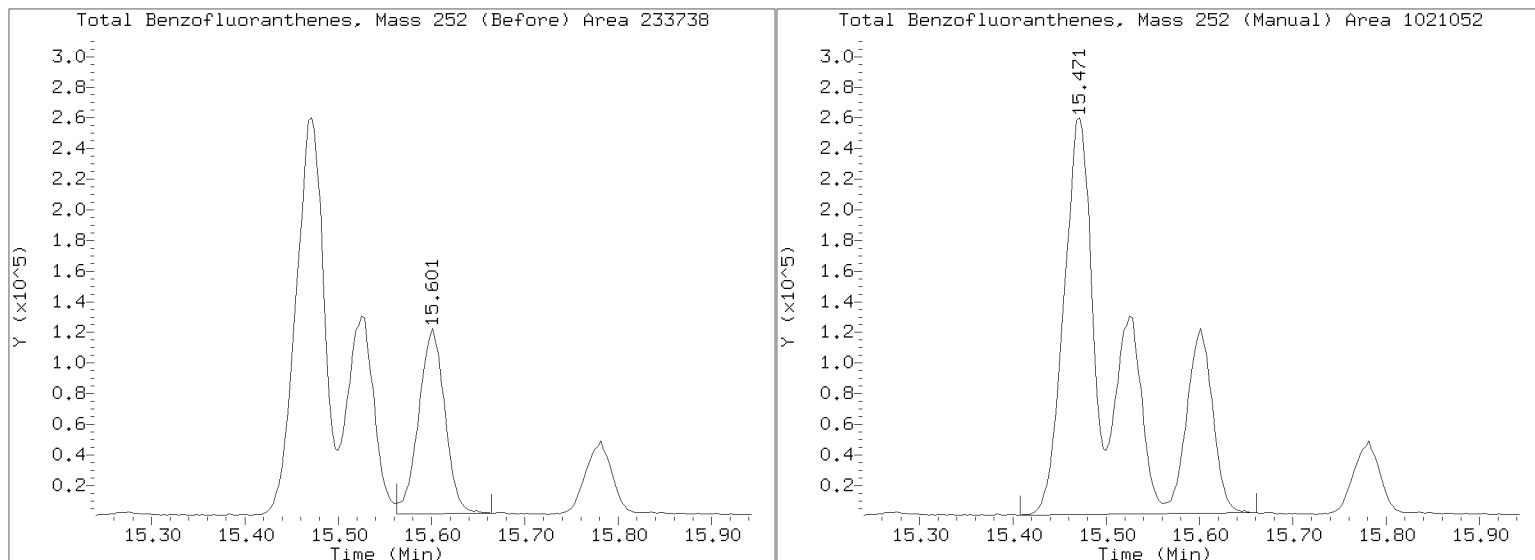
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100308.D

Injection Date: 03-OCT-2018 14:14

Lab ID:18I0285-02 Client ID:

Report Date: 10/03/2018 14:42





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270D-SIM
Polynuclear Aromatic Hydrocarbons

Laboratory: Analytical Resources, Inc.
 Client: Anchor OEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 1810285-02RE1 SDG: 1810285
 Sampled: 09/17/18 12:05 Prepared: 09/26/18 15:45 File ID: NT818100316.D
 % Solids: 49.28 Preparation: EPA 3546 (Microwave) Analyzed: 10/03/18 17:49
 Batch: BGI0708 Sequence: SGJ0048 Initial/Final: 20.34 g Wet / 0.5 mL
 Instrument: NT8 Column: RXI-17Sil ms Calibration: BH00016

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	3	851	D	3.82	15.0
91-57-6	2-Methylnaphthalene	3	142	D	3.30	15.0
90-12-0	1-Methylnaphthalene	3	98.7	D	1.20	15.0
208-96-8	Acenaphthylene	3	90.4	D	3.24	15.0
83-32-9	Acenaphthene	3	227	D	1.71	15.0
86-73-7	Fluorene	3	250	D	1.89	15.0
85-01-8	Phenanthrene	3	696	D	2.15	15.0
120-12-7	Anthracene	3	289	D	2.61	15.0
206-44-0	Fluoranthene	3	715	D	1.41	15.0
129-00-0	Pyrene	3	765	D	1.87	15.0
56-55-3	Benzo(a)anthracene	3	290	D	2.47	15.0
218-01-9	Chrysene	3	495	D	3.15	15.0
205-99-2	Benzo(b)fluoranthene	3	288	D	4.11	15.0
207-08-9	Benzo(k)fluoranthene	3	132	D	2.27	15.0
205-82-3	Benzo(j)fluoranthene	3	129	D	2.04	15.0
50-32-8	Benzo(a)pyrene	3	233	D	1.84	15.0
193-39-5	Indeno(1,2,3-cd)pyrene	3	97.8	D	3.14	15.0
53-70-3	Dibenzo(a,h)anthracene	3	30.0	D	2.67	15.0
191-24-2	Benzo(g,h,i)perylene	3	125	D	3.19	15.0
	Benzo(a)fluoranthenes, Total	3	548	D	9.01	29.9

SURROGATES	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	149.65	98.7	65.9	32 - 120	
Dibenzo[a,h]anthracene-d14	149.65	127	84.9	21 - 133	
Fluoranthene-d10	149.65	112	74.6	36 - 134	

Data File: \\target\share\chem3\nt8.1\20181003.6\NT818100316.D

Date : 03-OCT-2018 17:49

Client ID:

Sample Info: 1810285-02REL,3

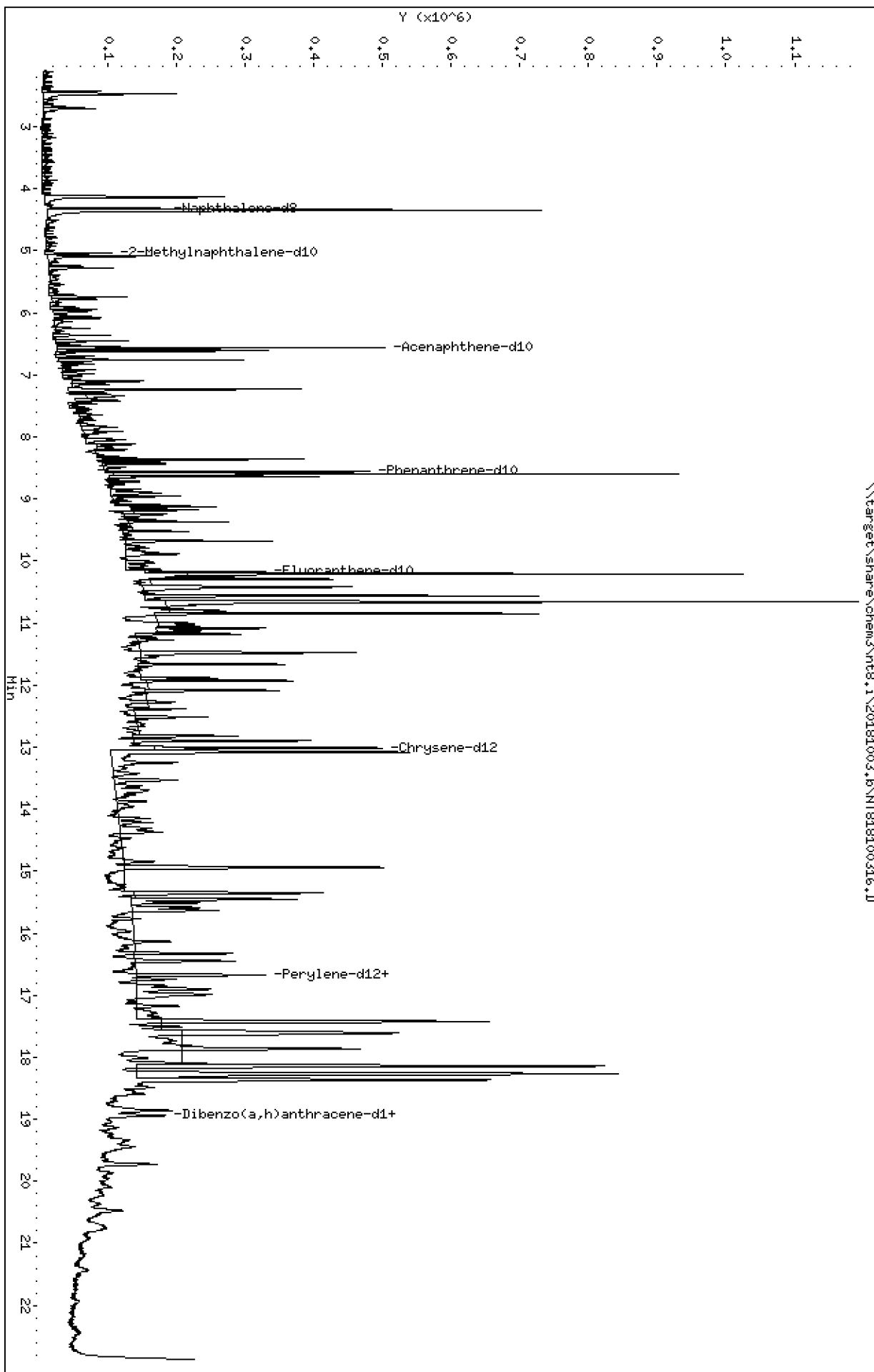
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 18I0285-02RE1,3

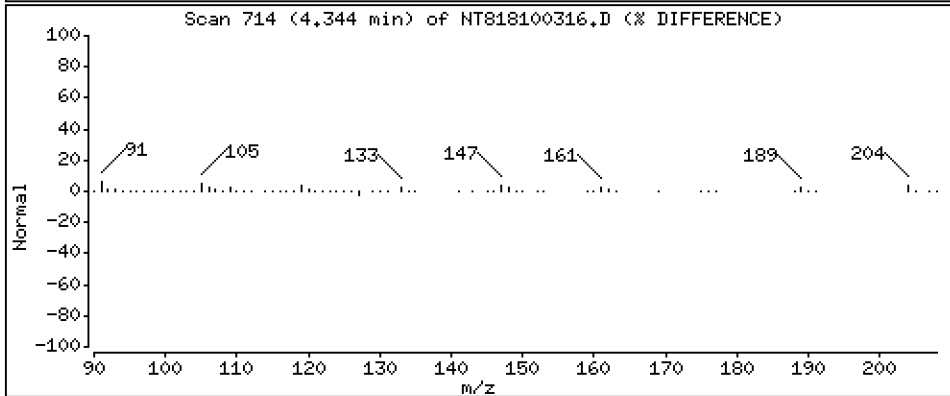
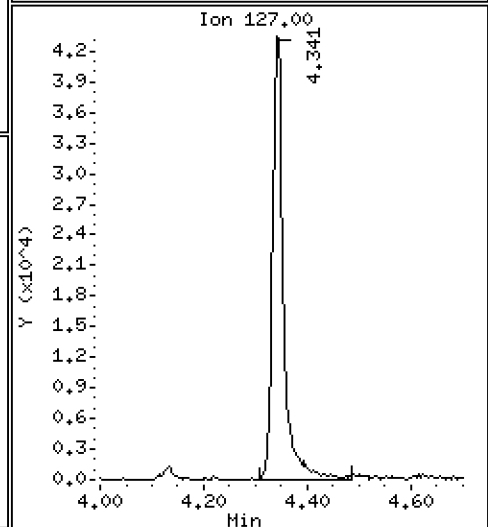
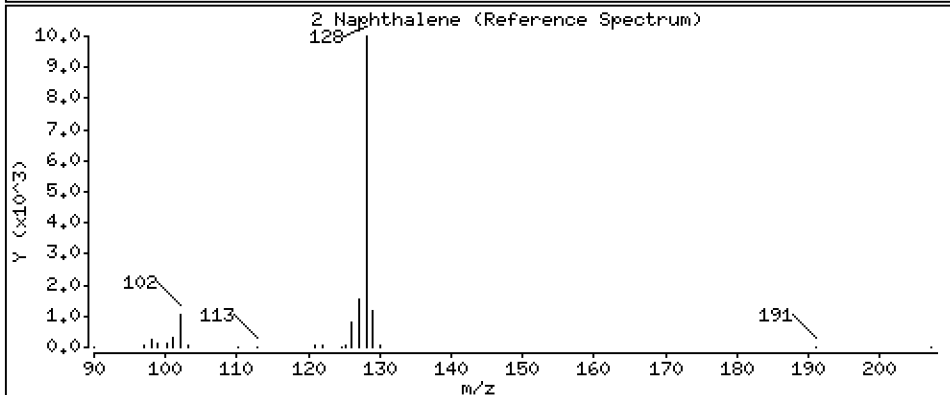
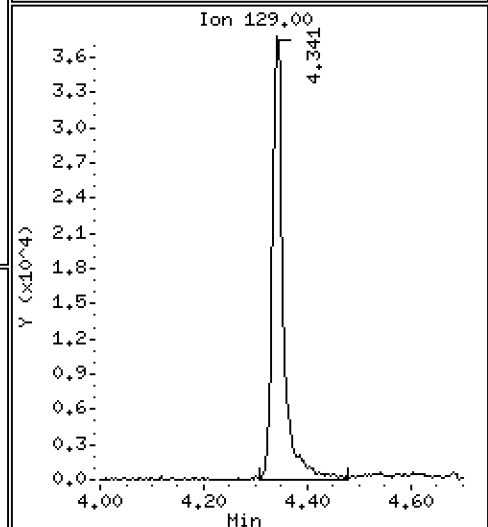
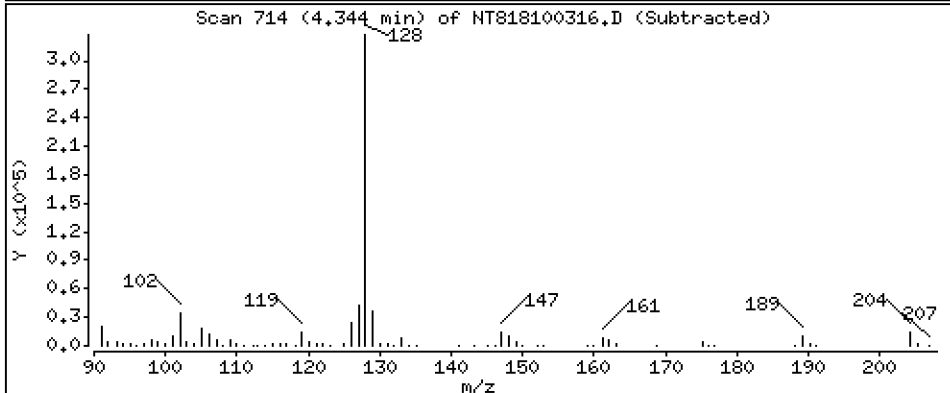
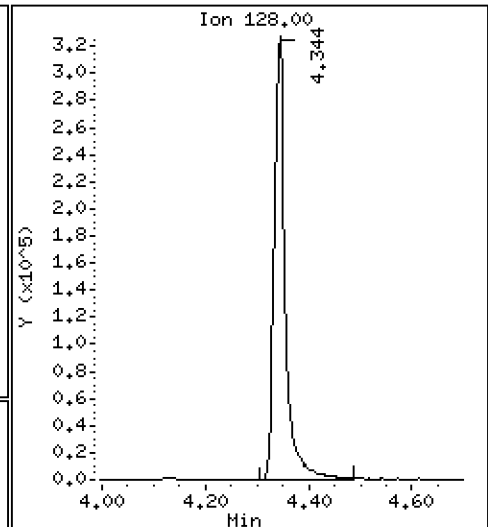
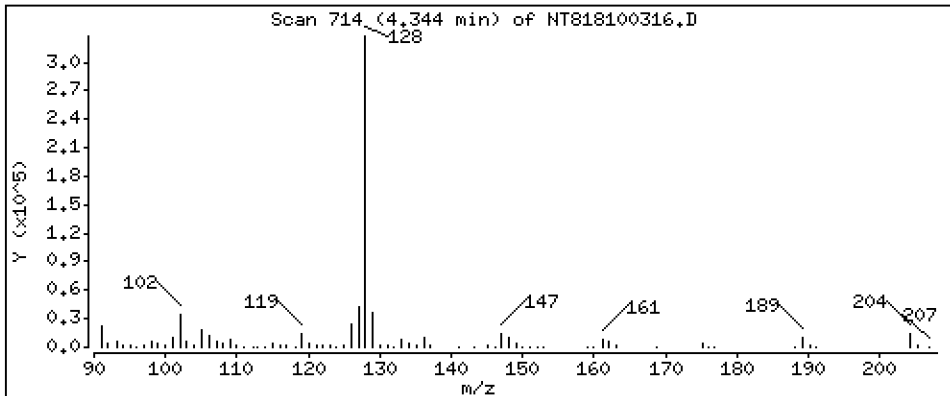
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

2 Naphthalene

Concentration: 17,05 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

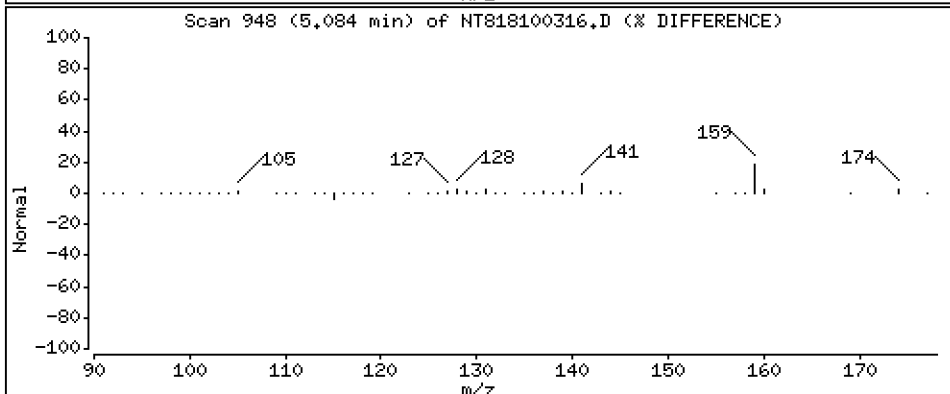
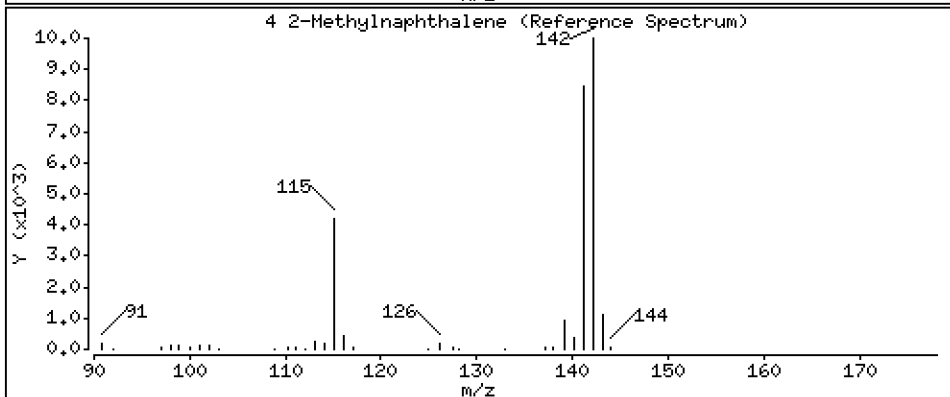
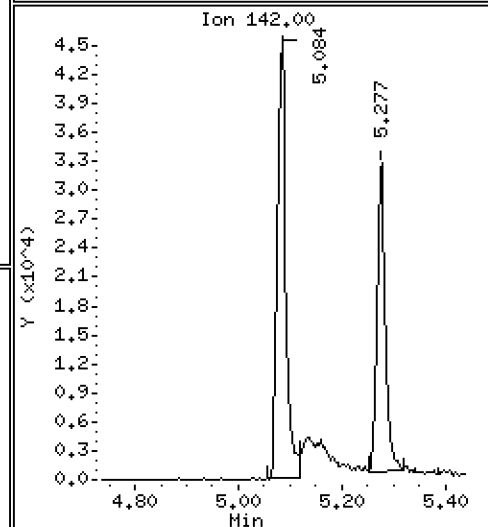
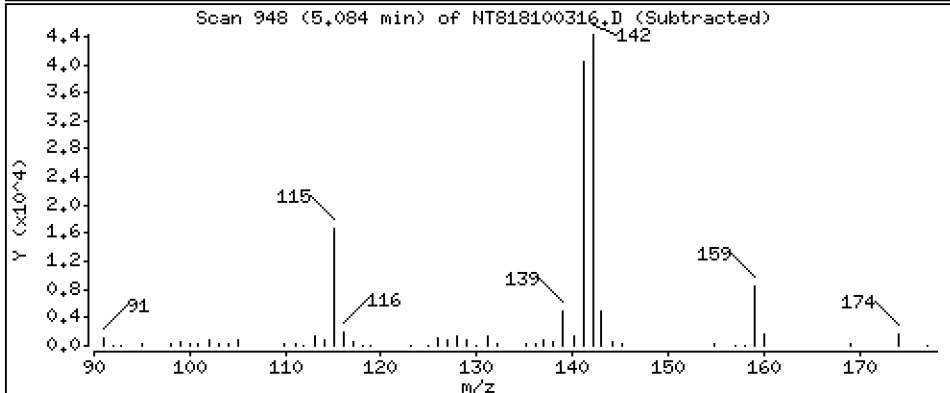
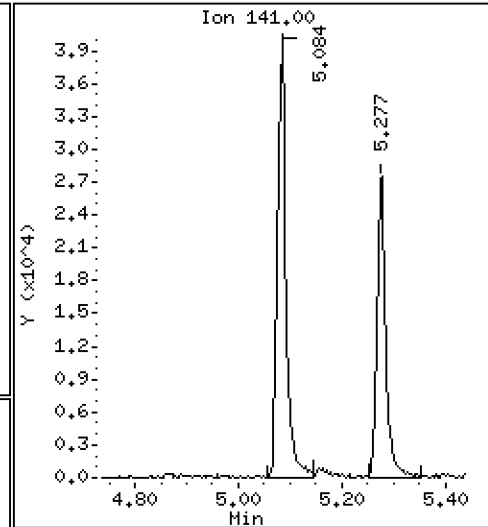
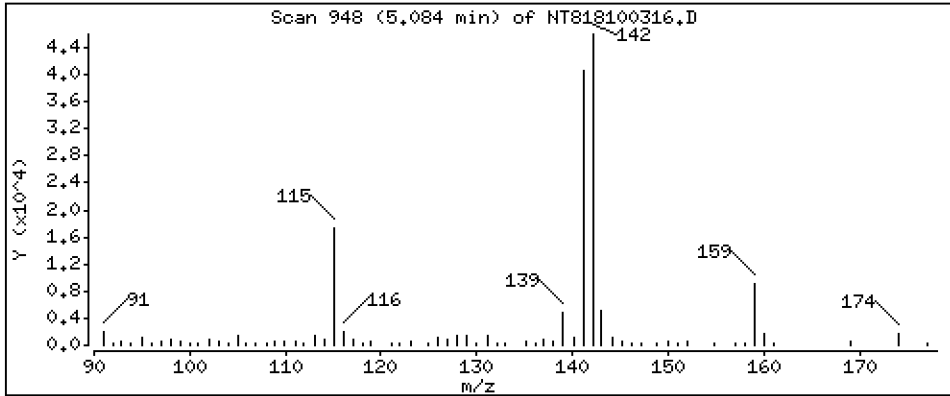
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4-Methylnaphthalene

Concentration: 2,844 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

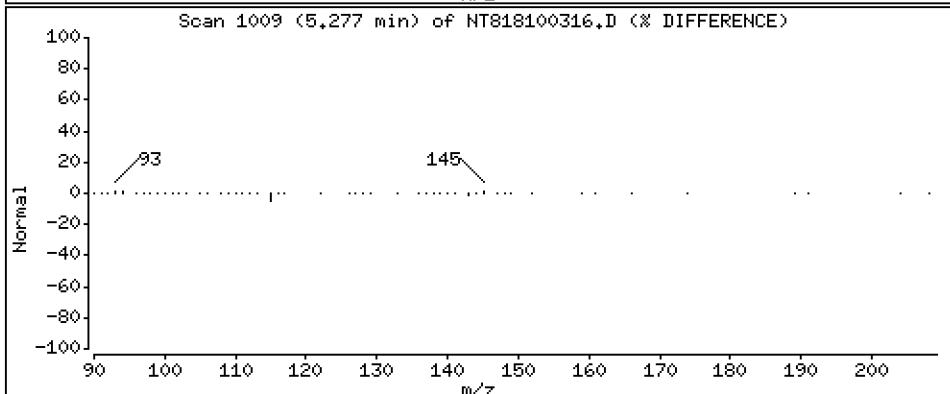
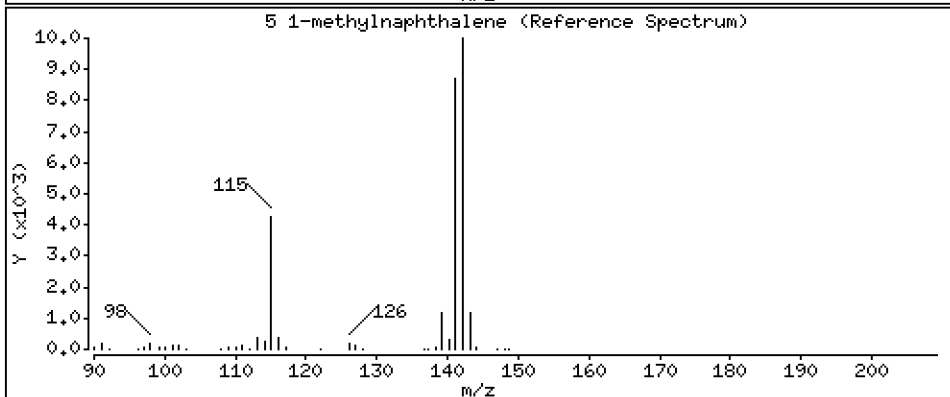
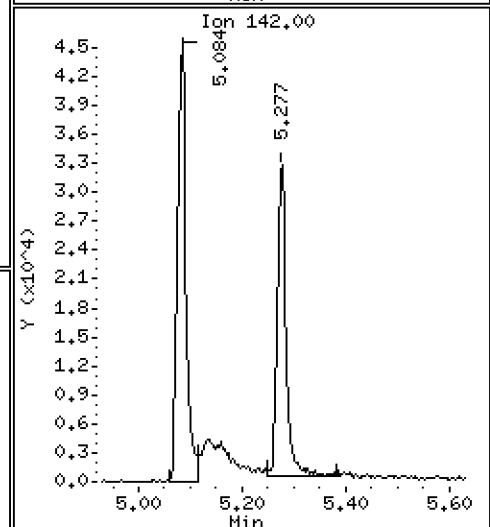
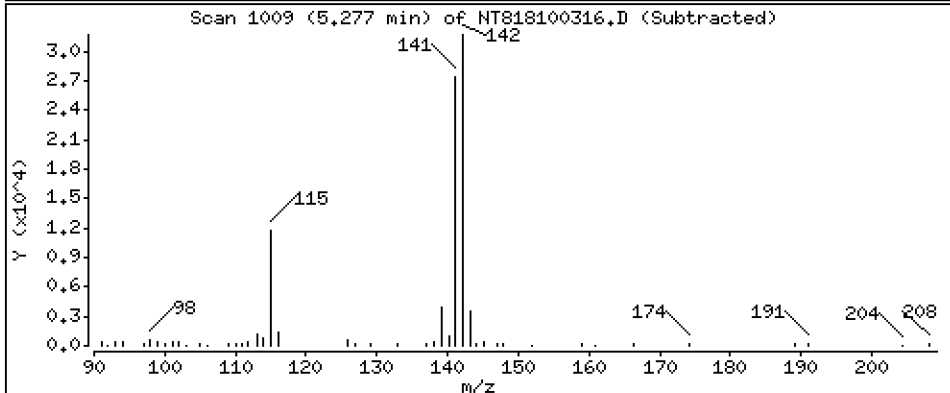
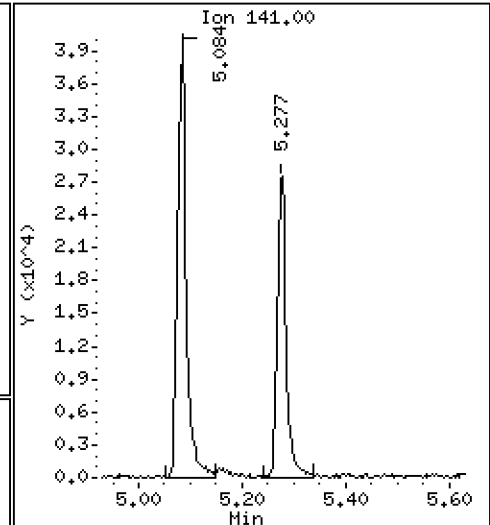
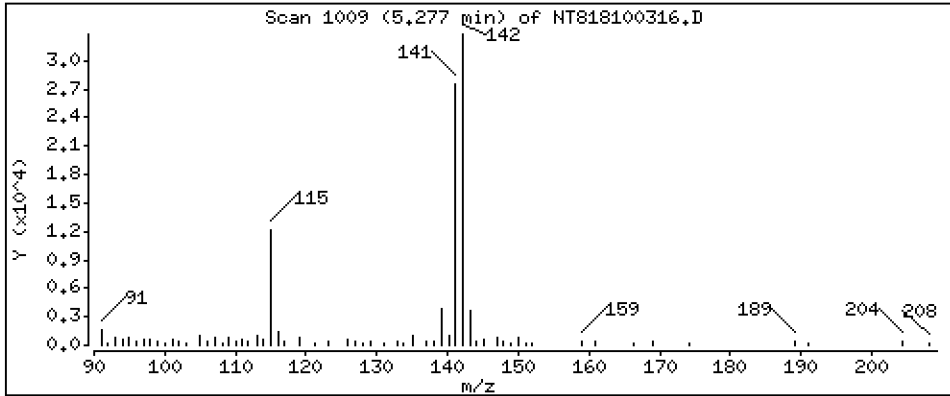
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

5 1-methylnaphthalene

Concentration: 1,979 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

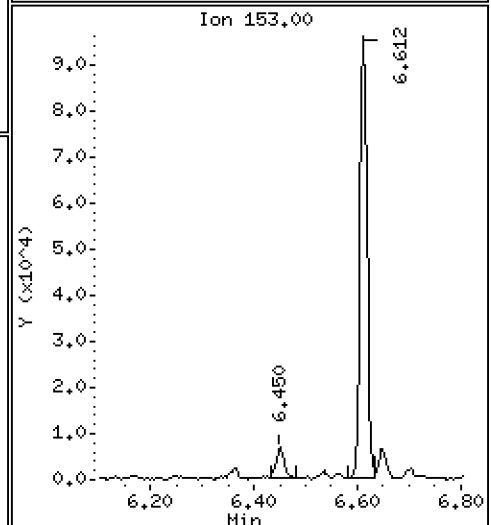
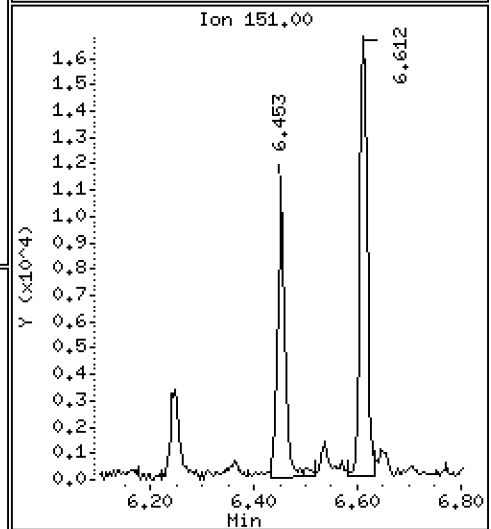
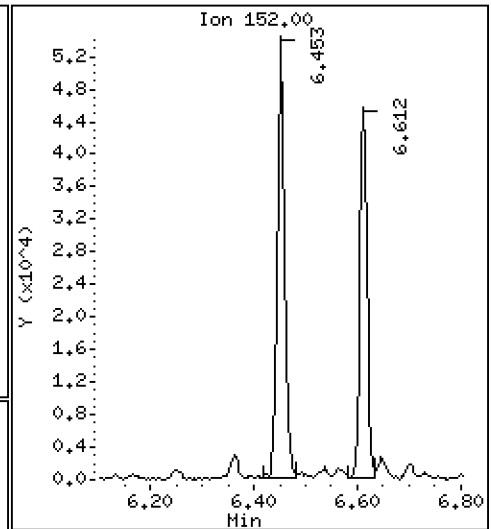
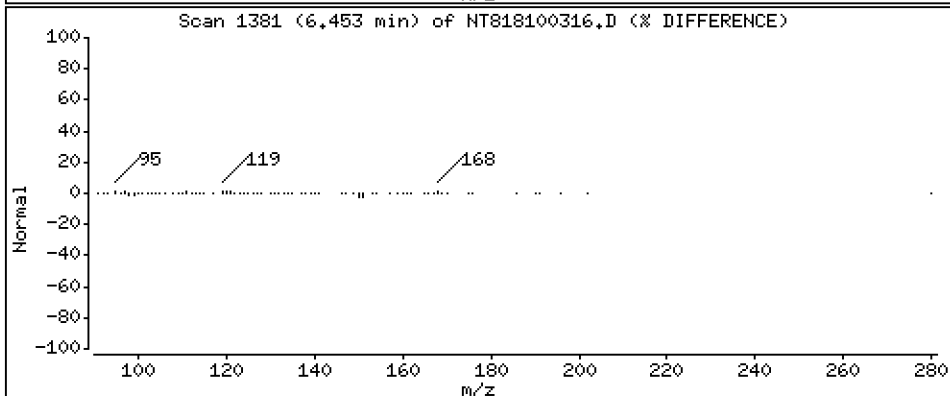
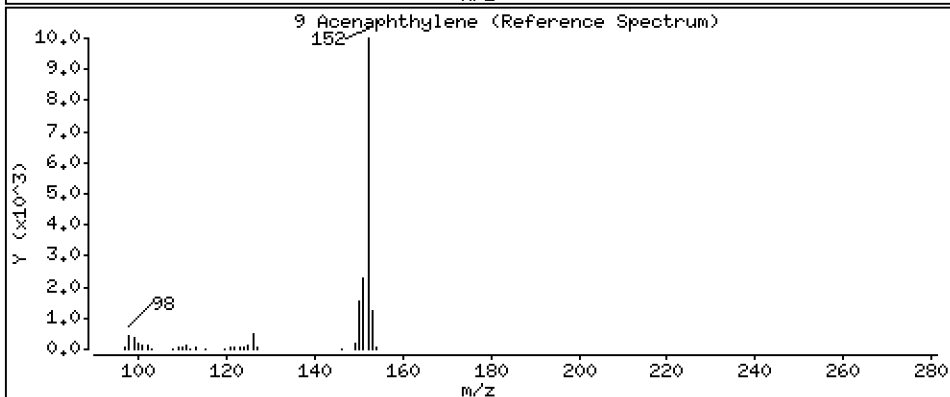
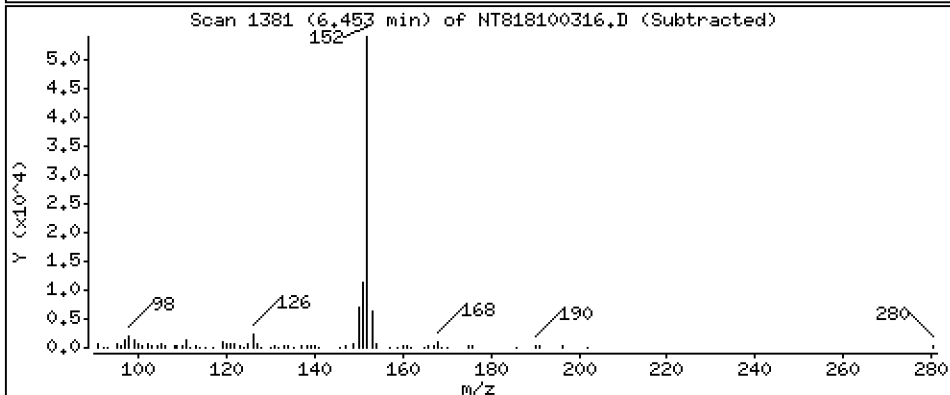
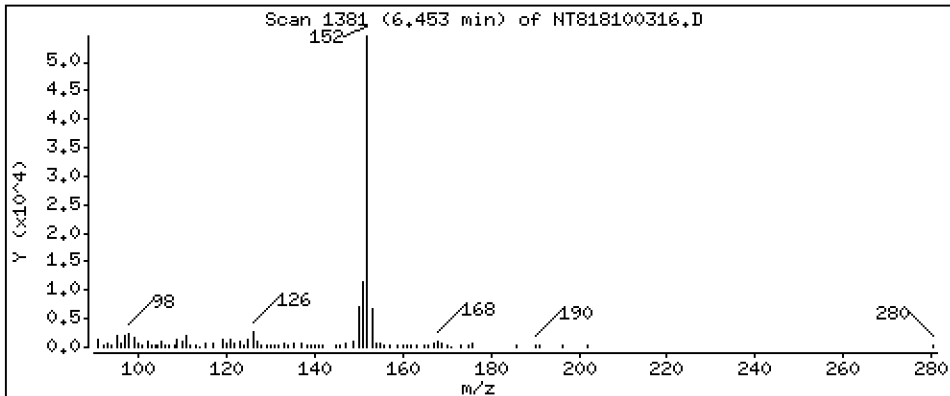
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

9 Acenaphthylene

Concentration: 1,811 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

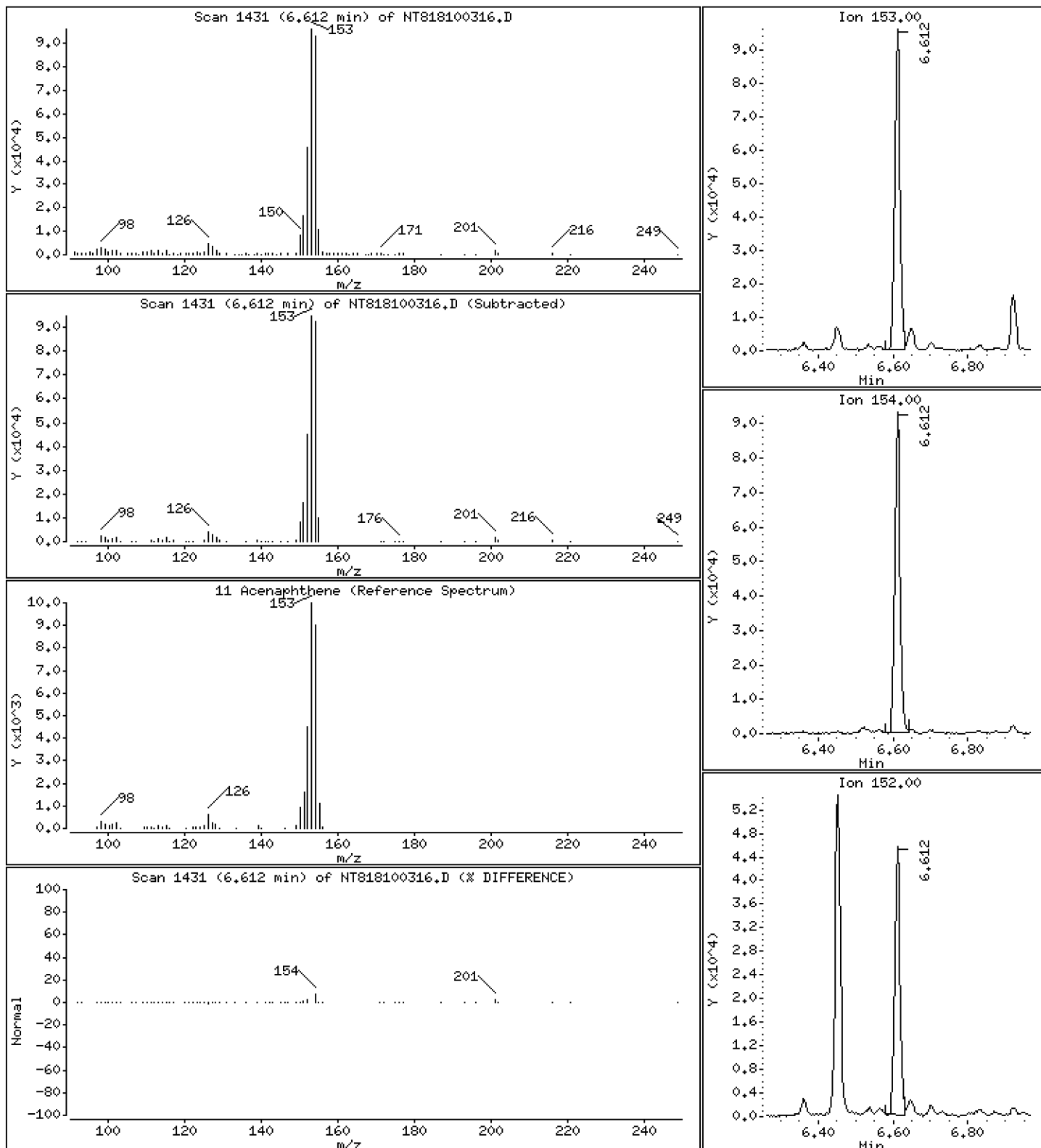
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

11 Acenaphthene

Concentration: 4,555 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

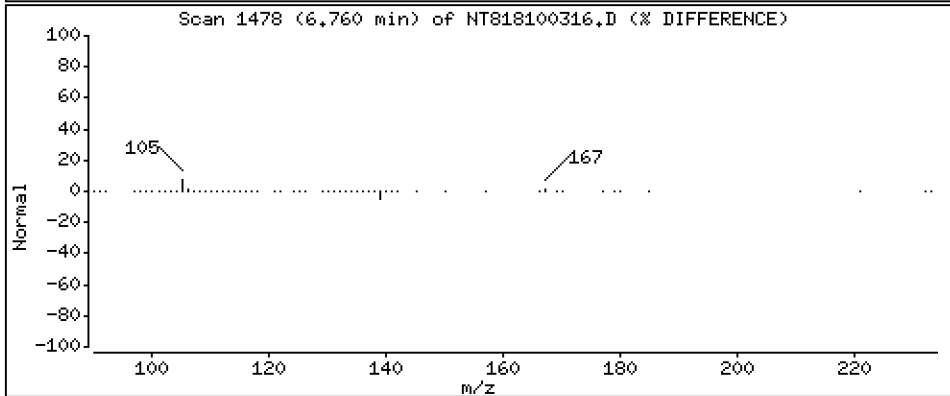
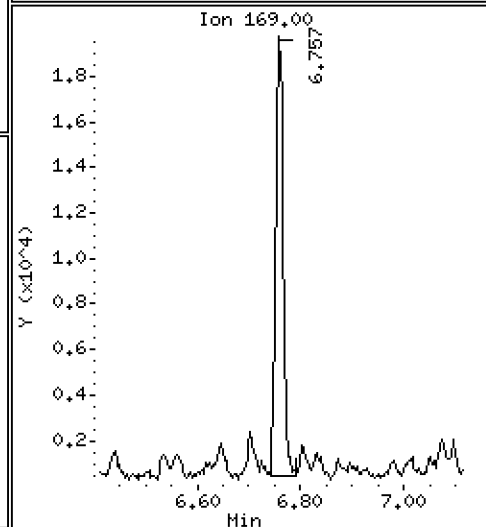
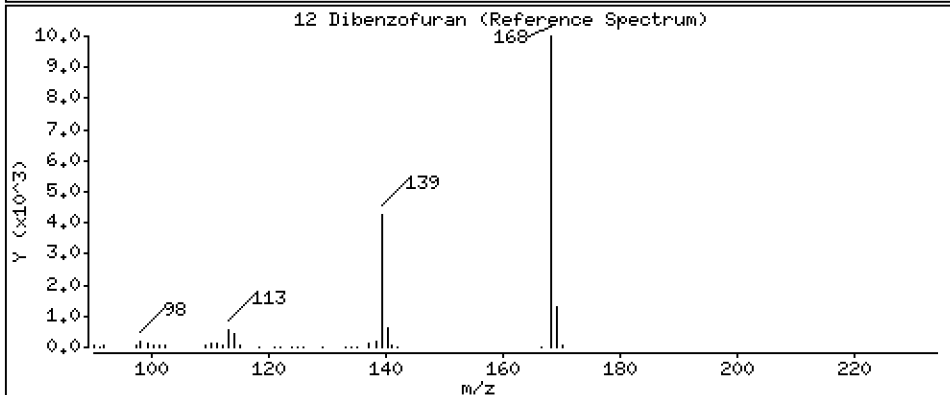
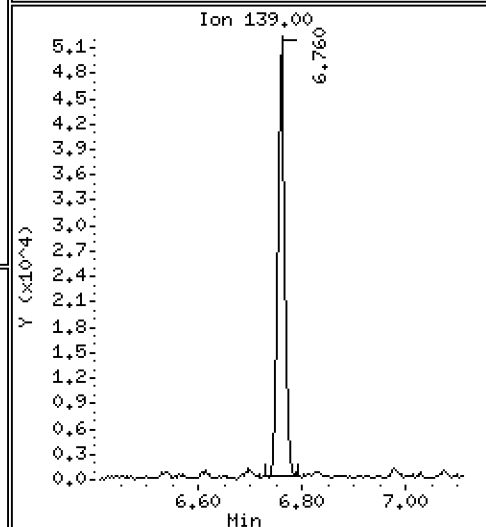
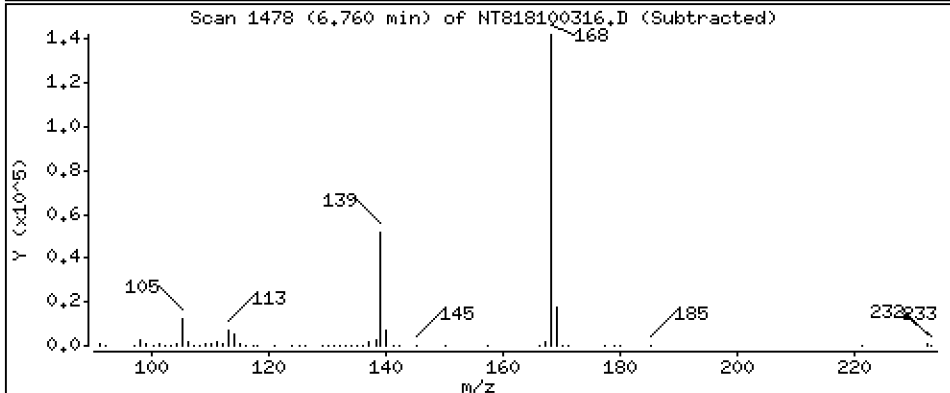
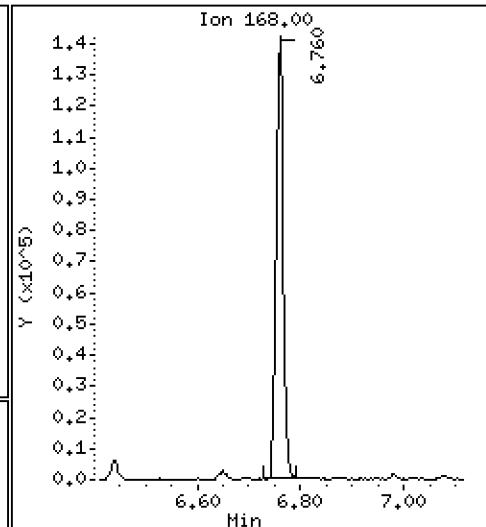
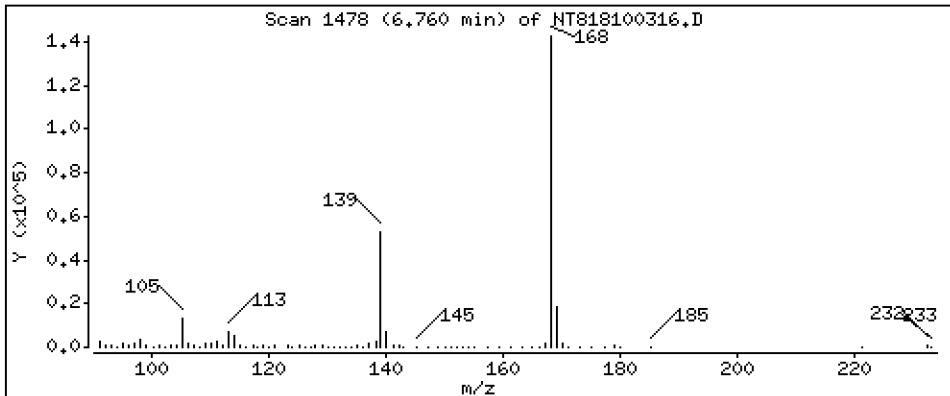
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

12 Dibenzofuran

Concentration: 4,787 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

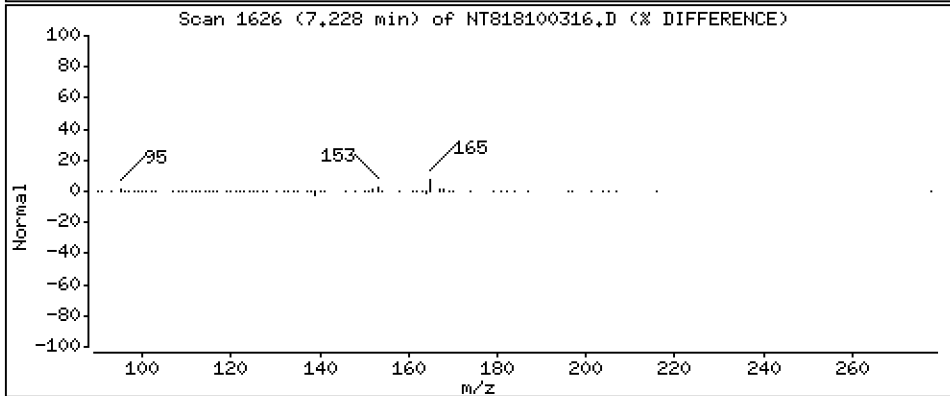
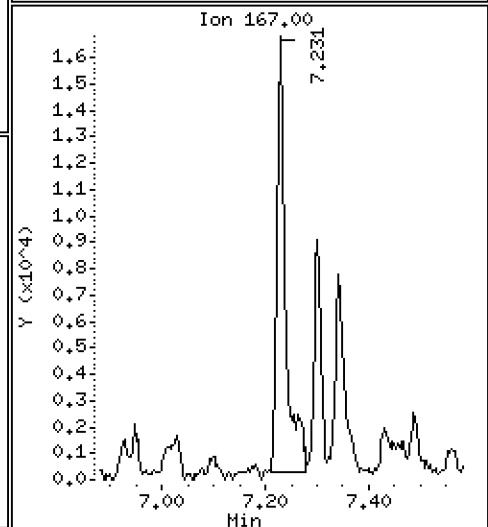
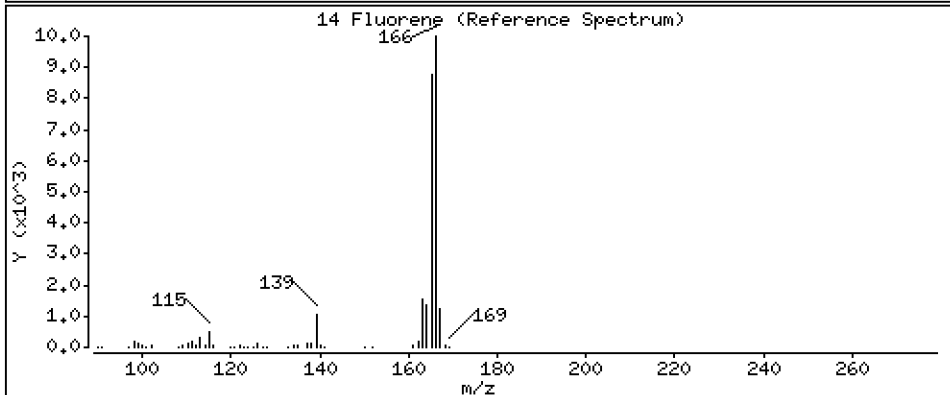
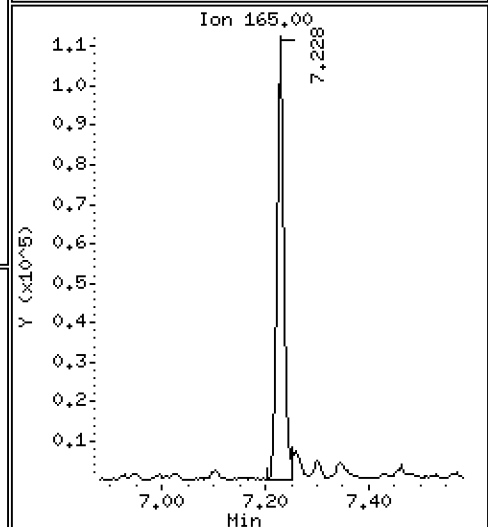
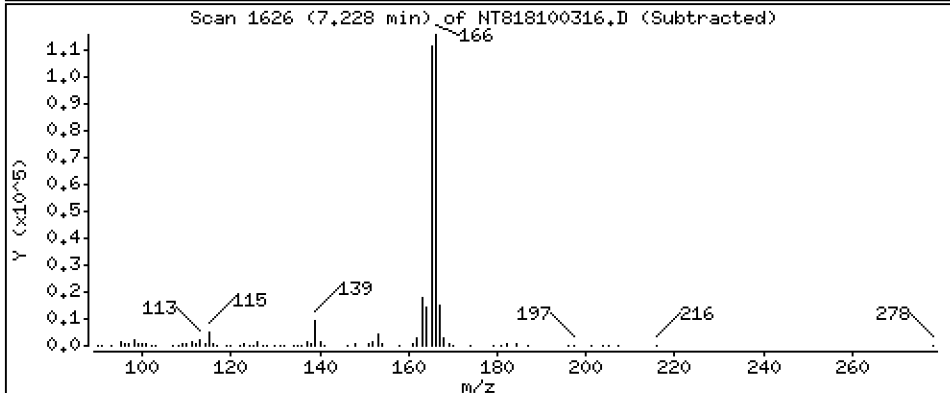
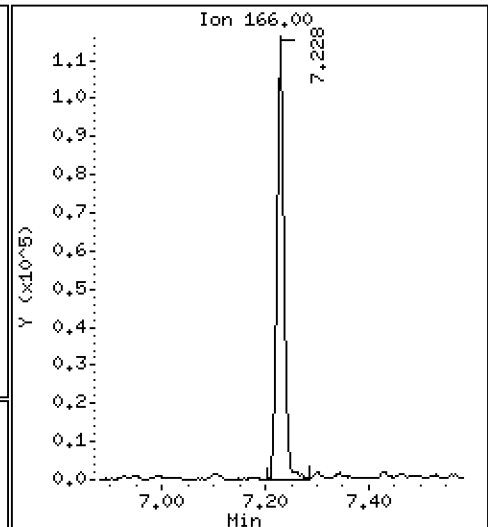
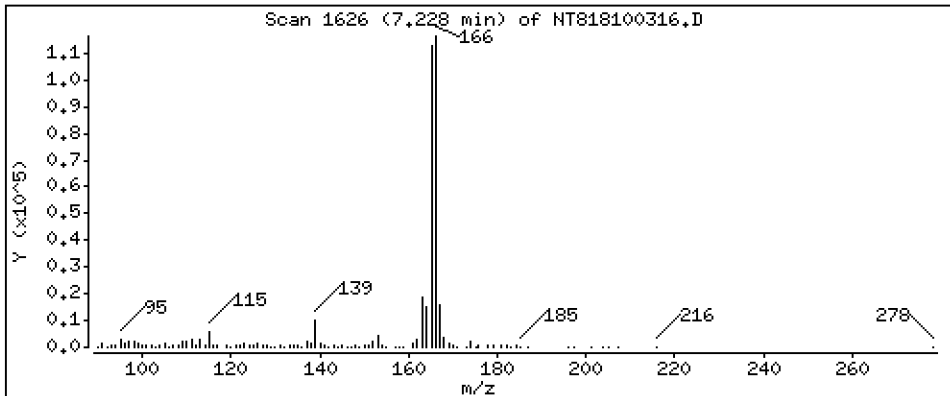
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

14 Fluorene

Concentration: 5,013 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

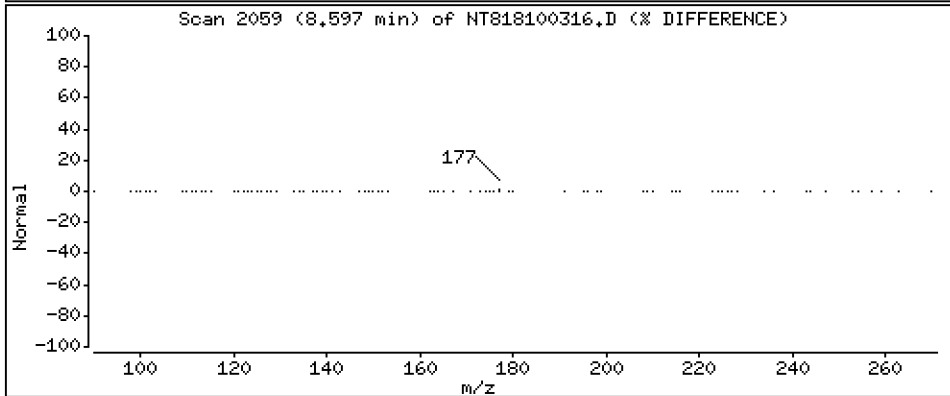
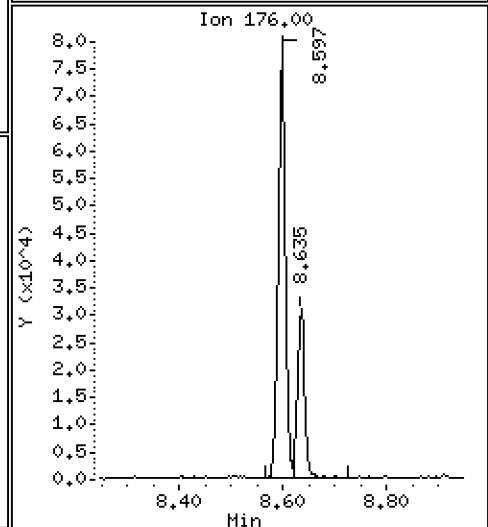
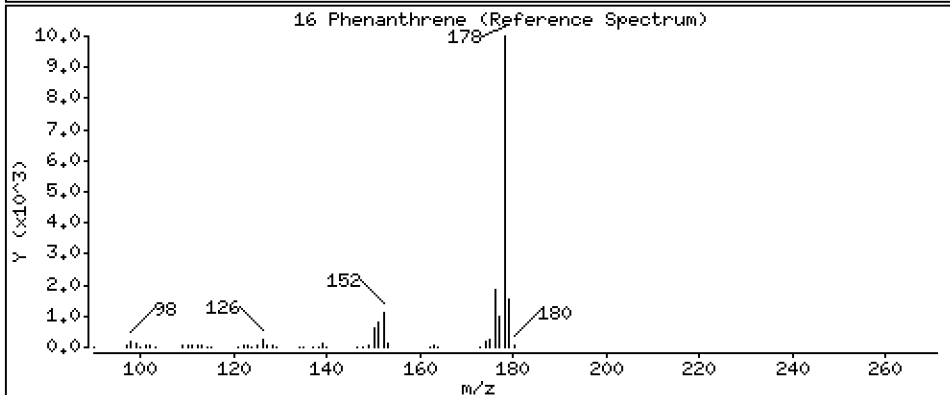
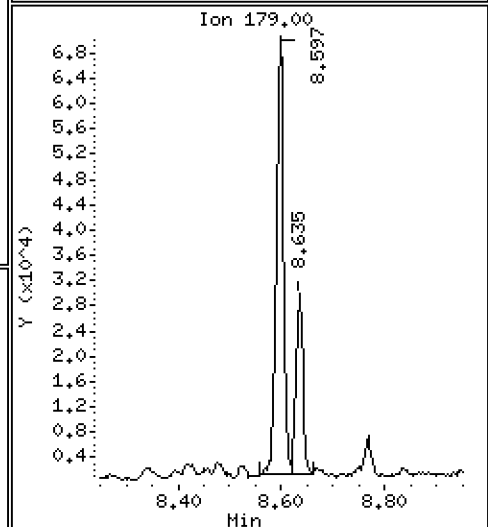
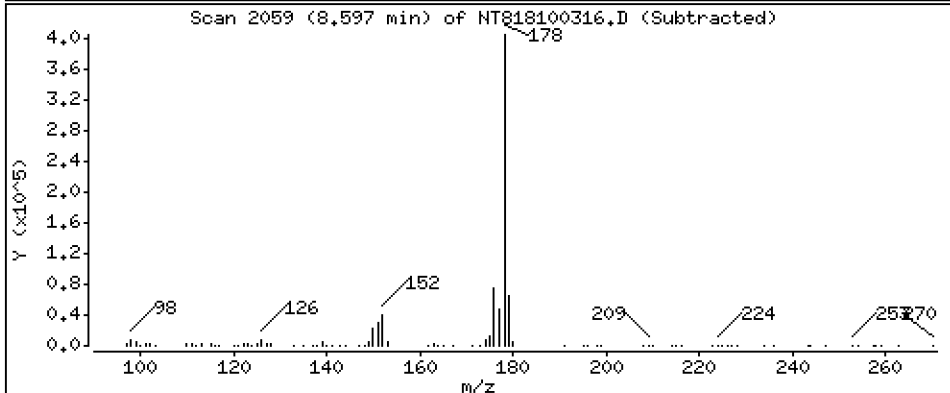
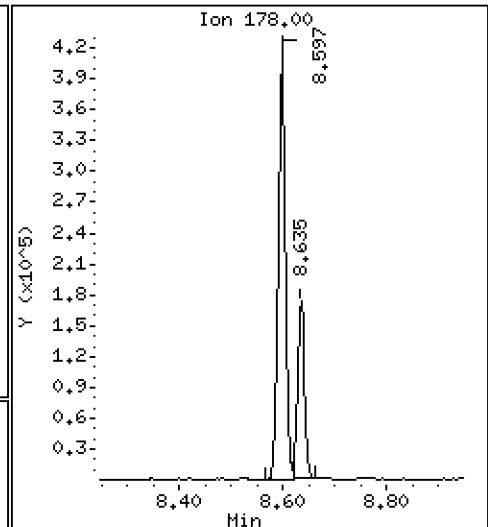
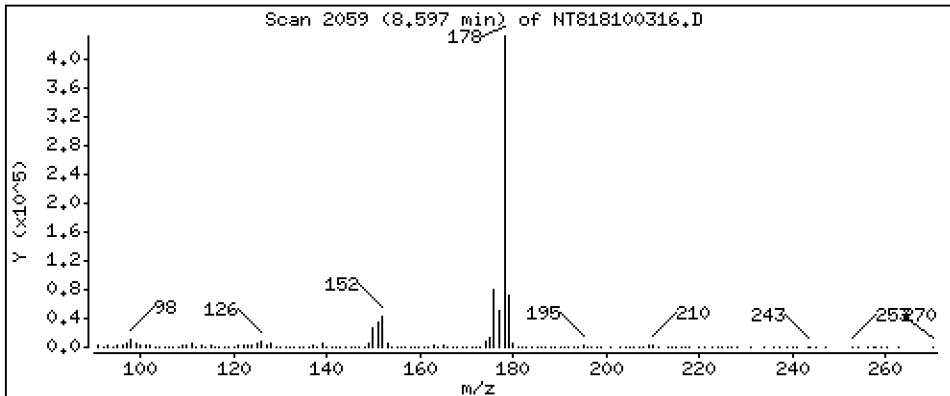
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

16 Phenanthrene

Concentration: 13,96 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

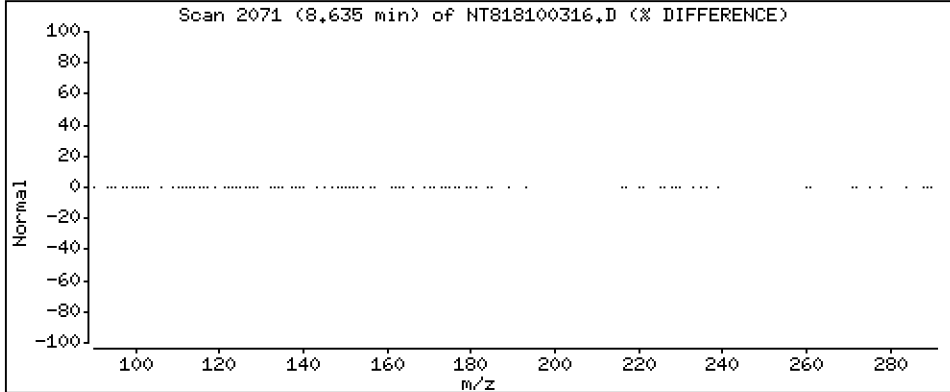
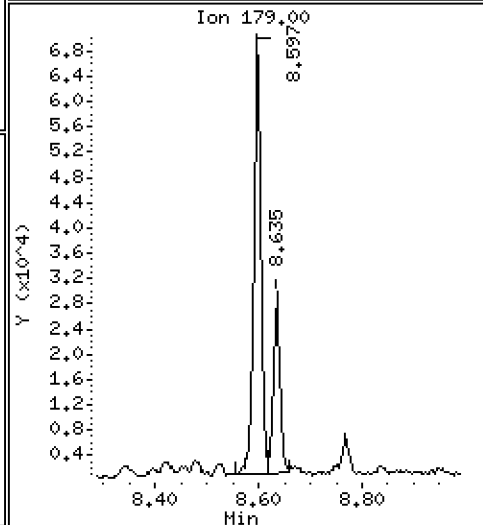
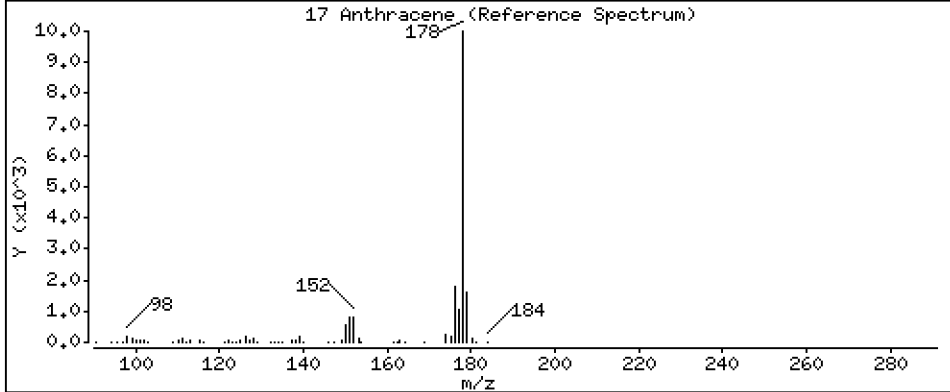
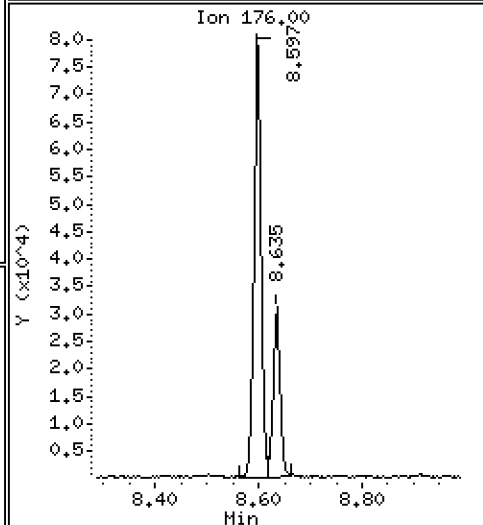
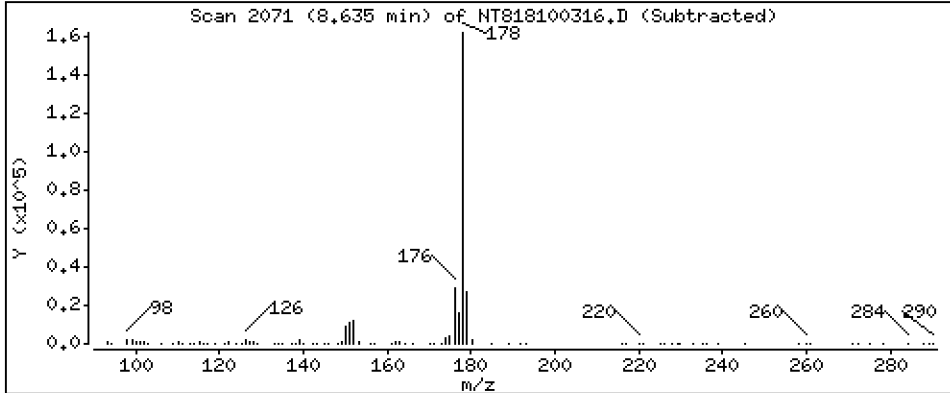
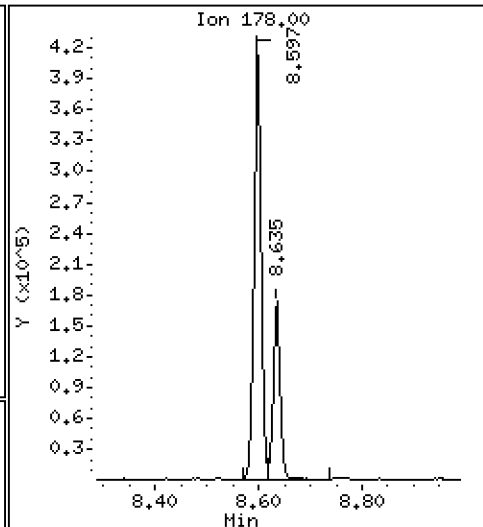
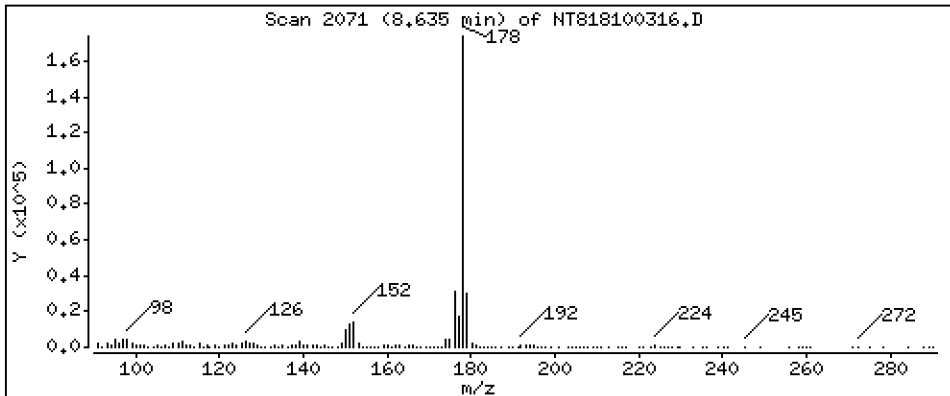
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

17 Anthracene

Concentration: 5,800 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

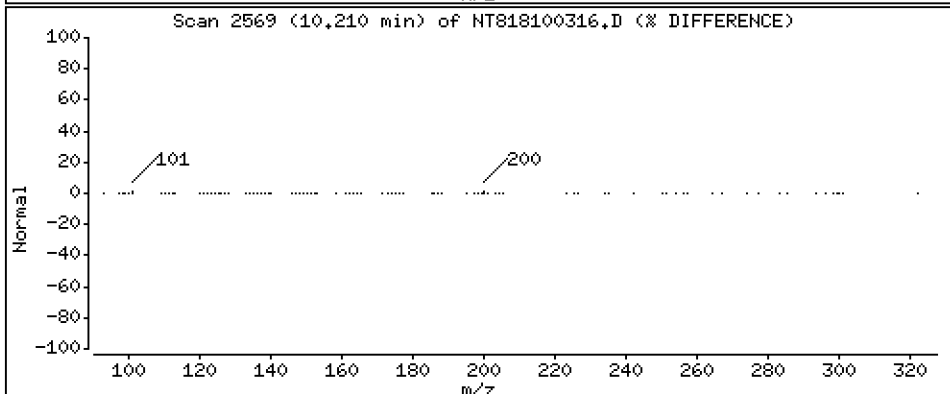
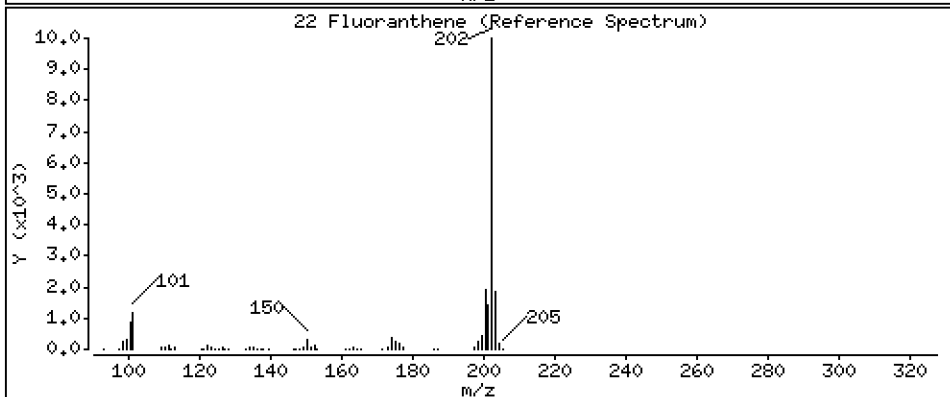
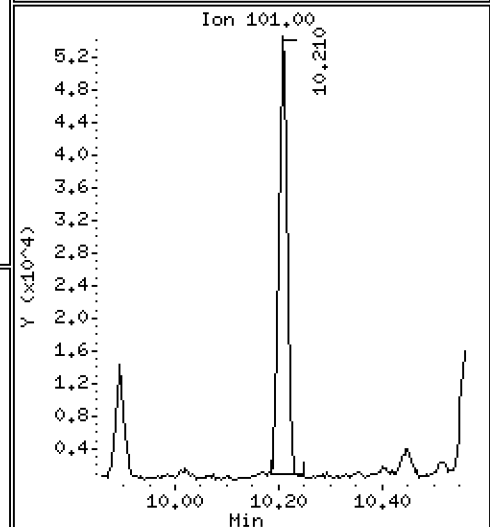
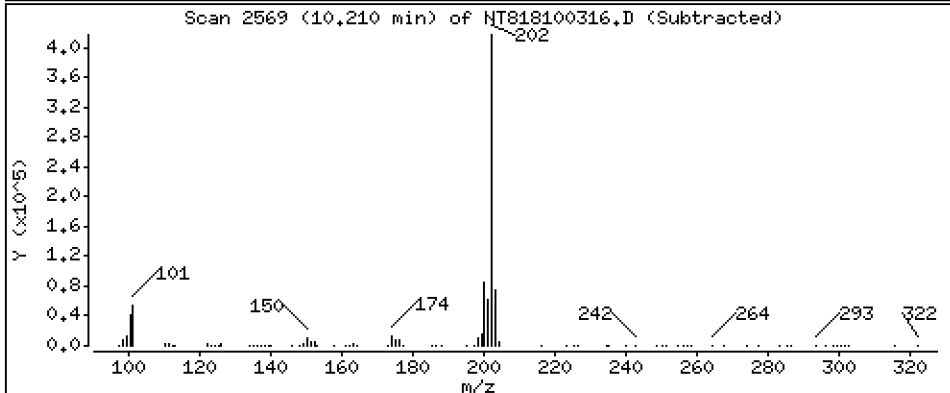
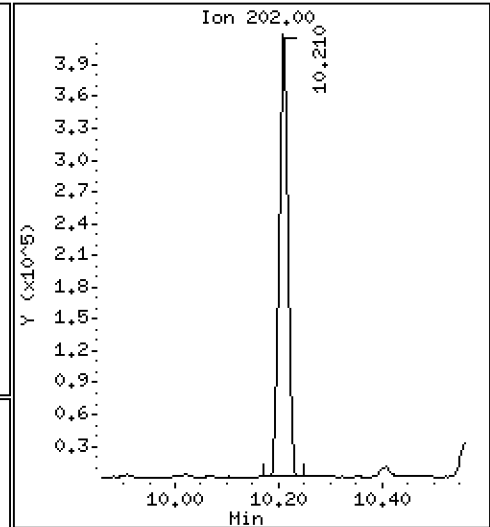
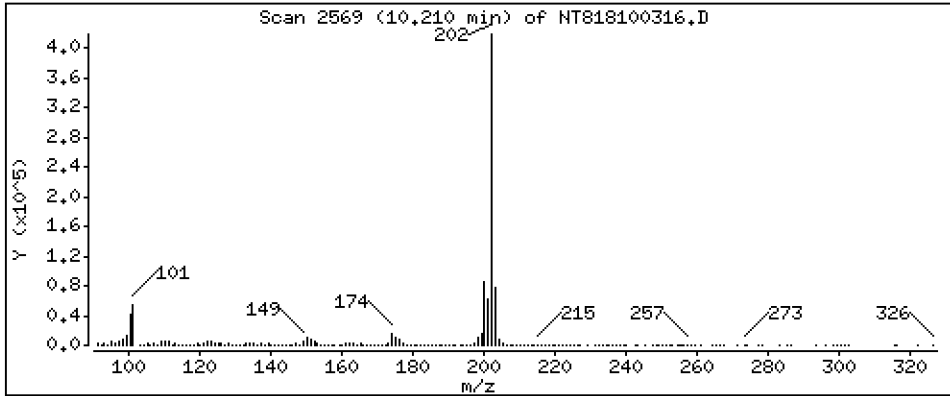
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 14,33 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

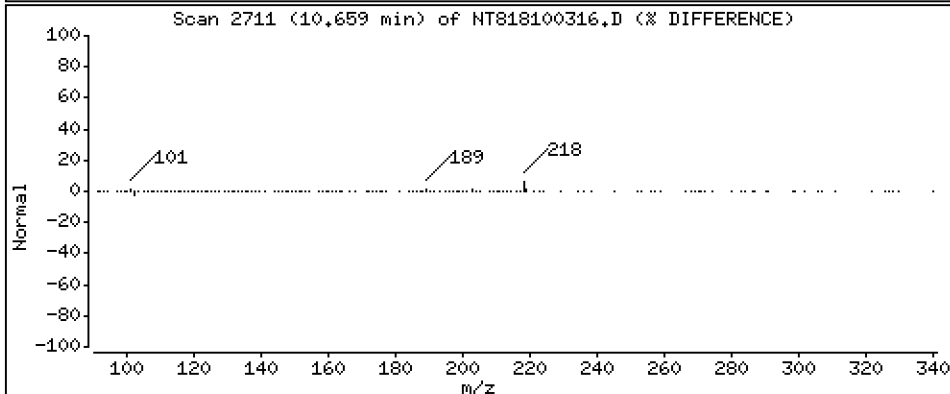
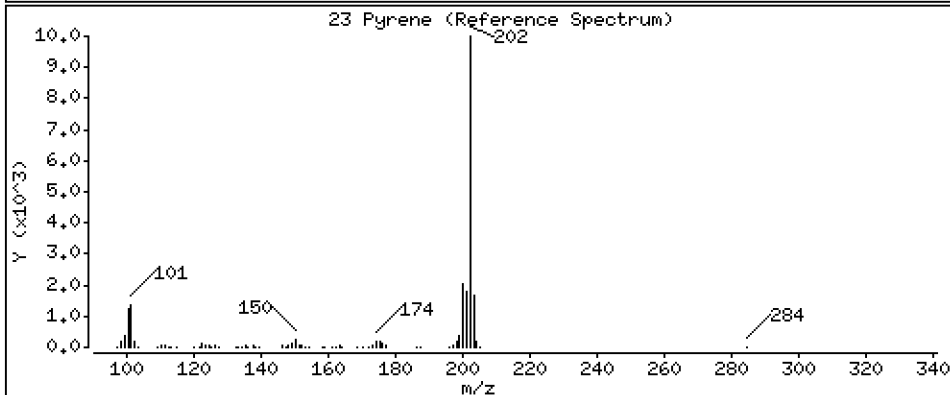
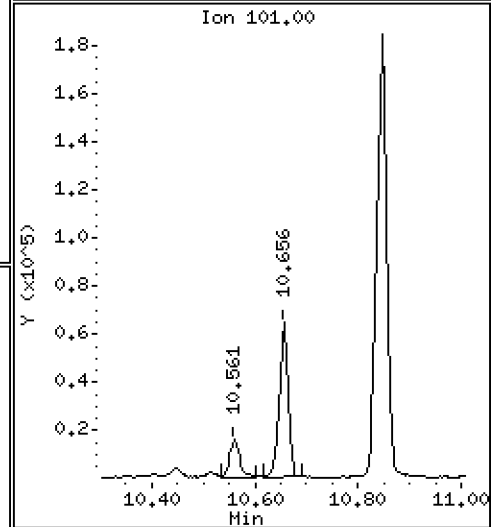
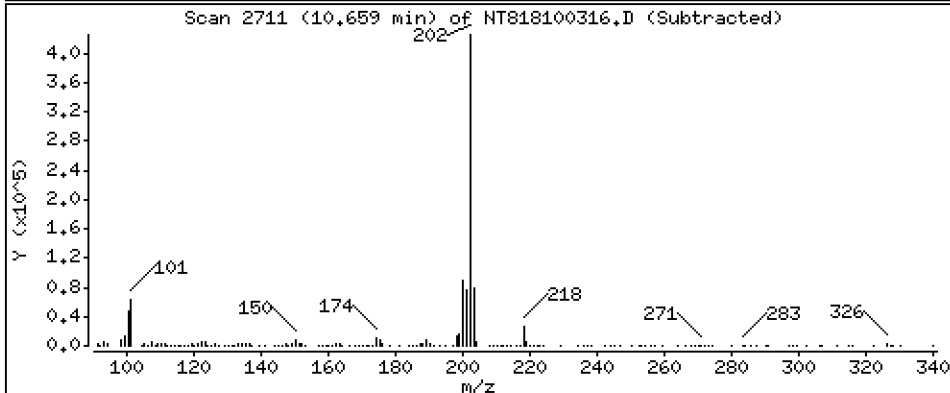
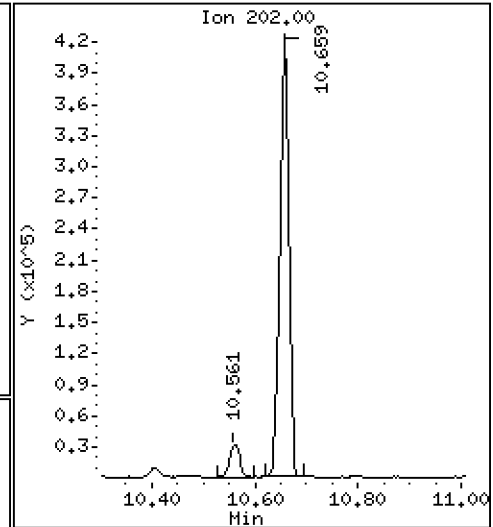
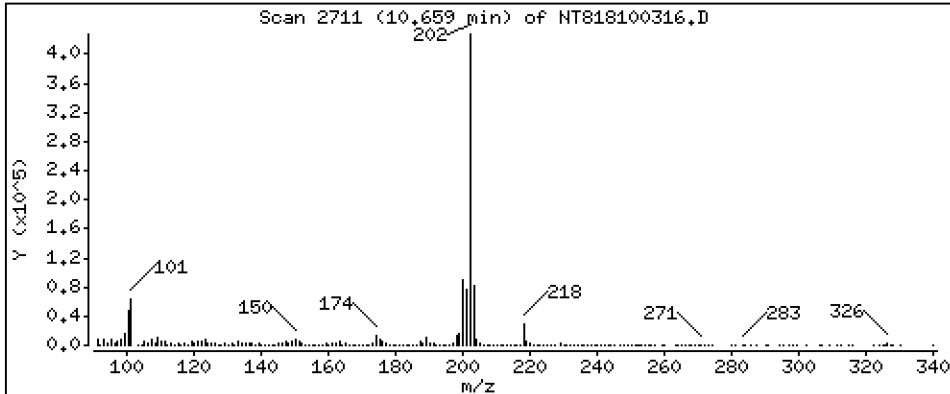
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 15,34 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

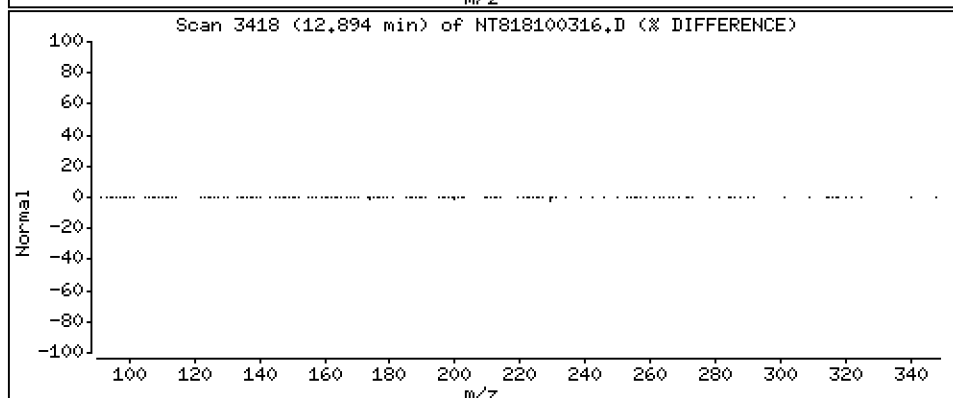
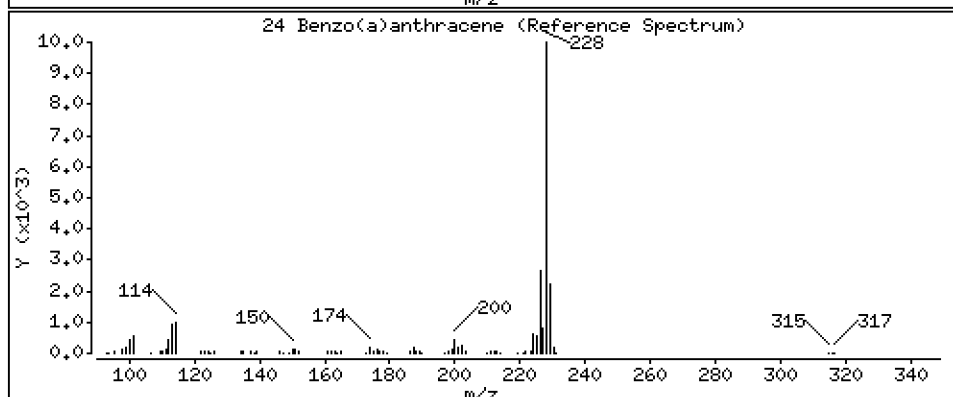
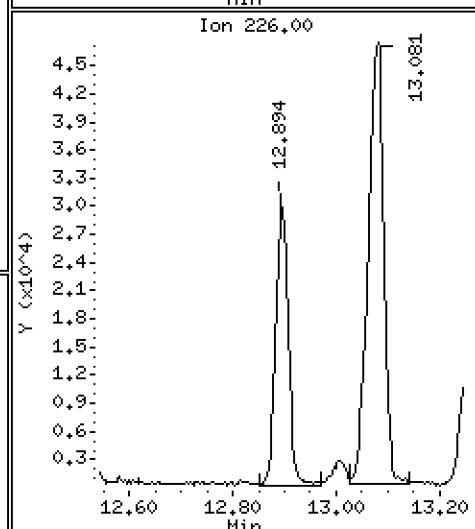
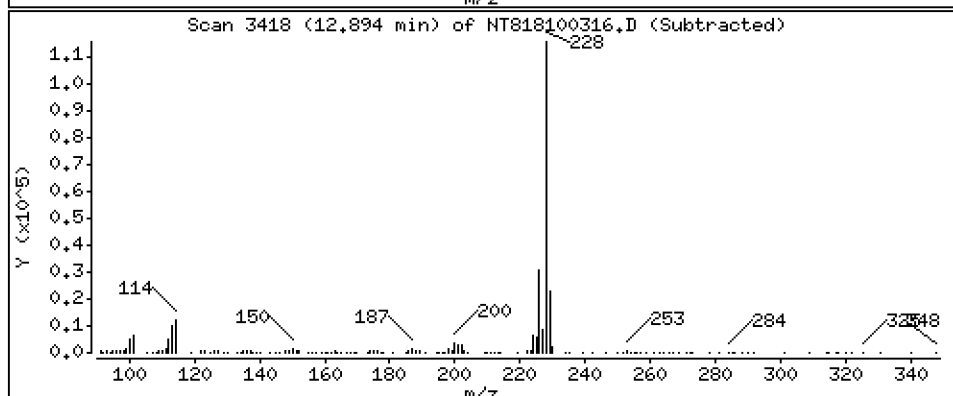
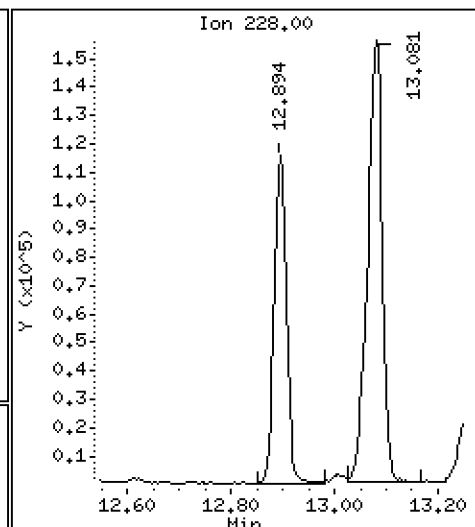
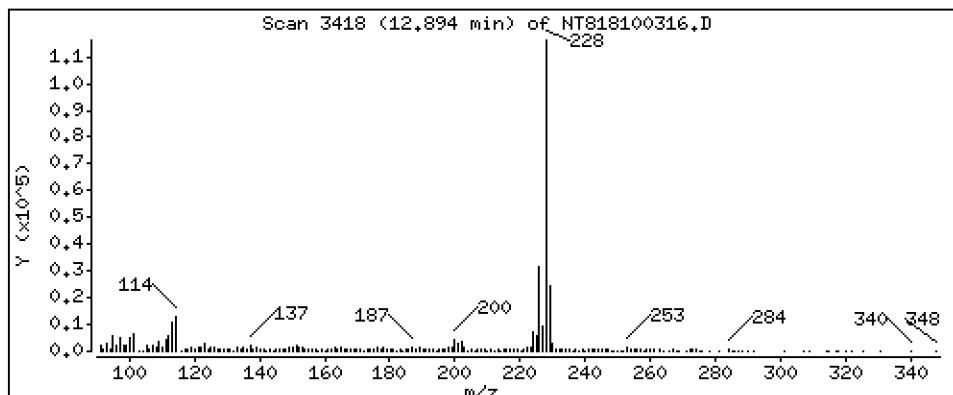
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 5,822 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

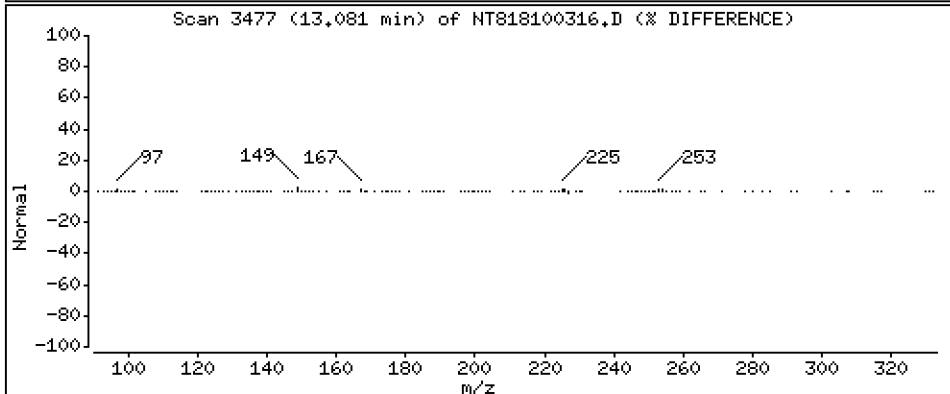
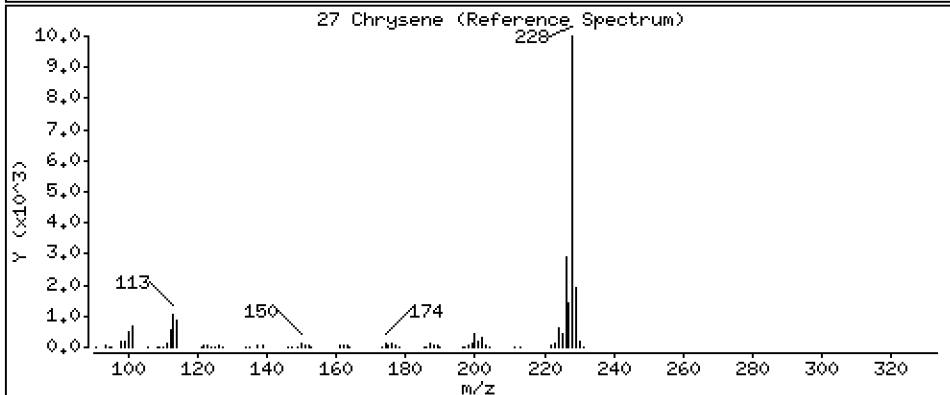
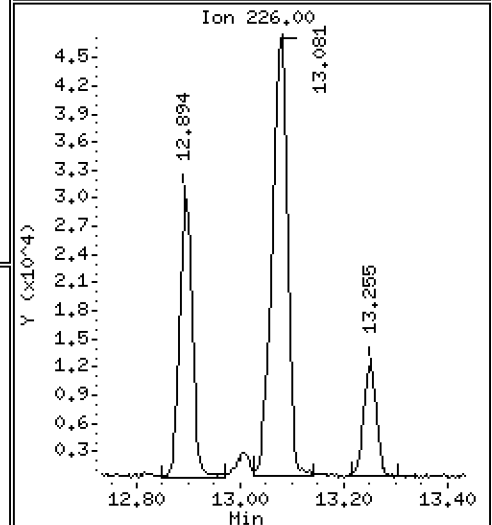
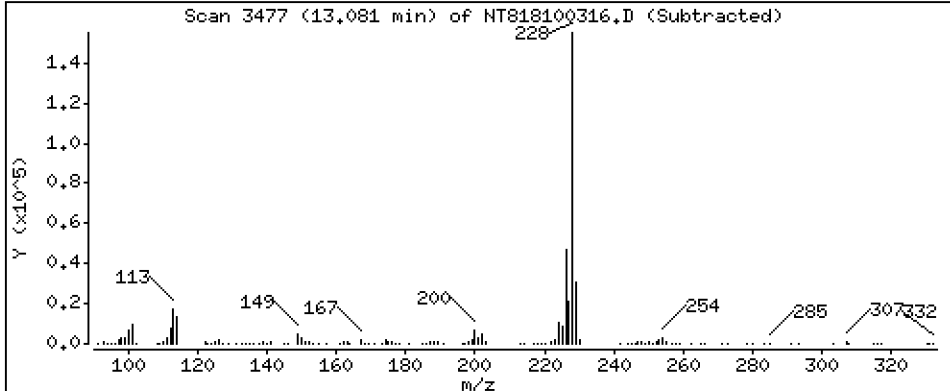
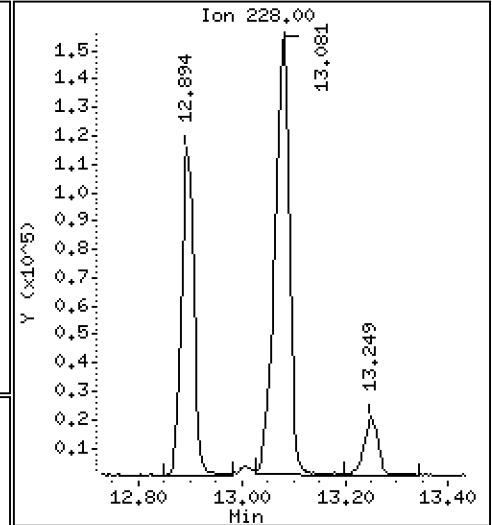
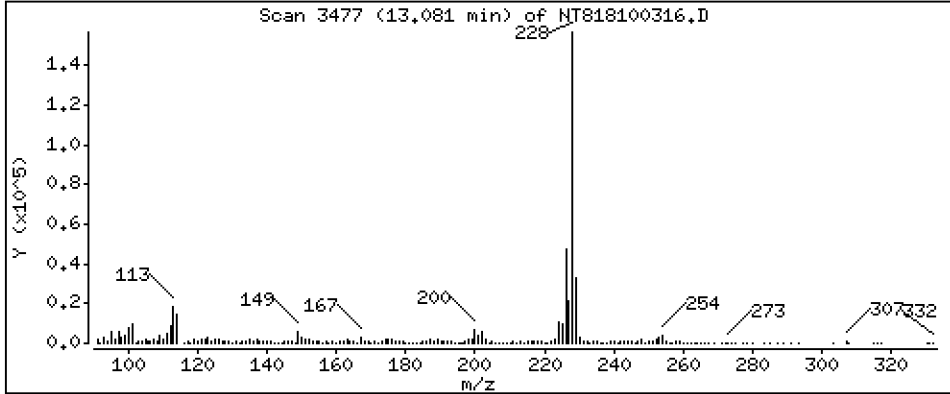
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 9,926 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 18I0285-02RE1,3

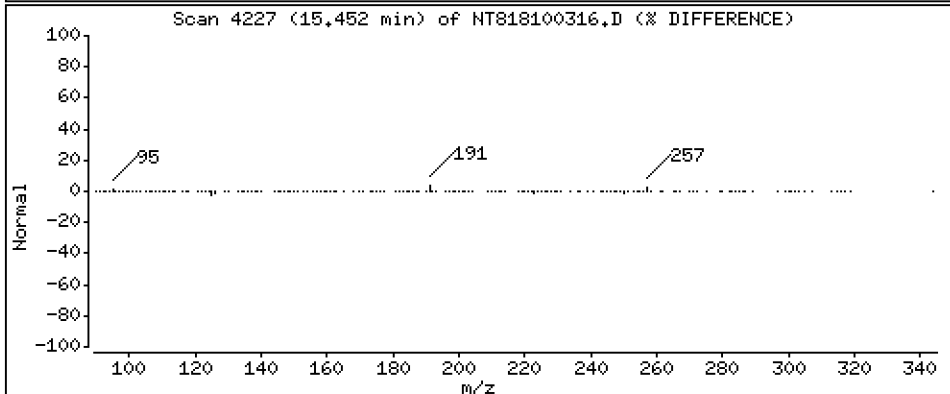
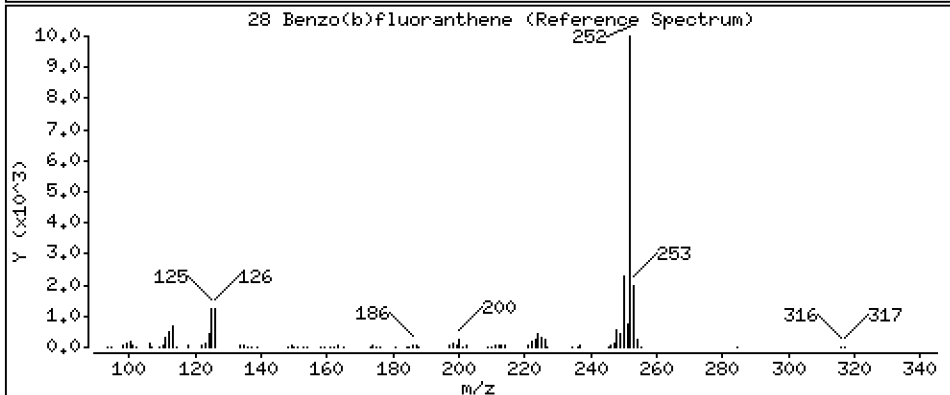
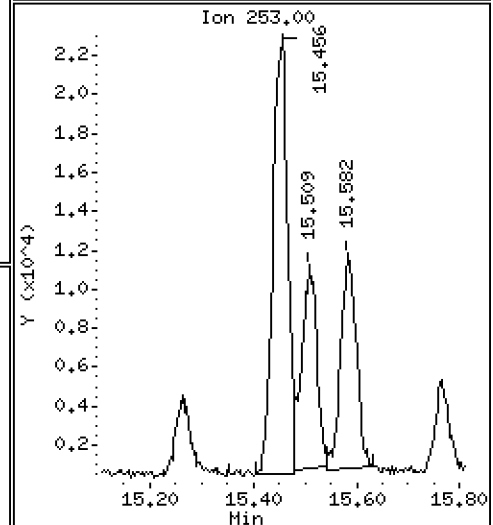
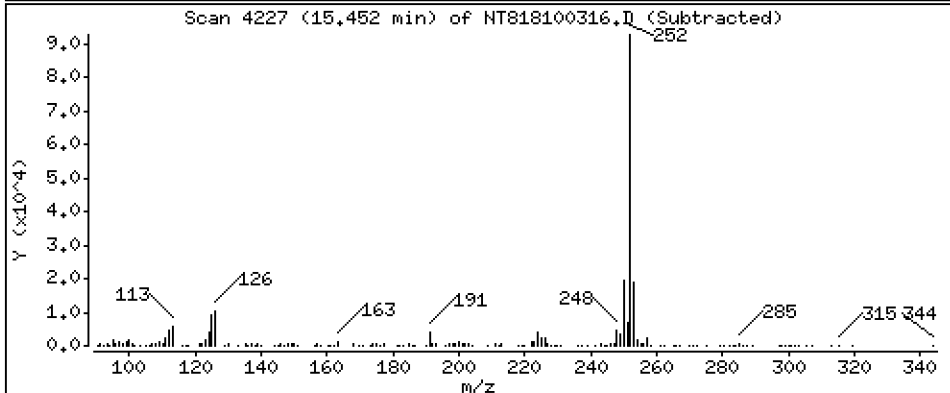
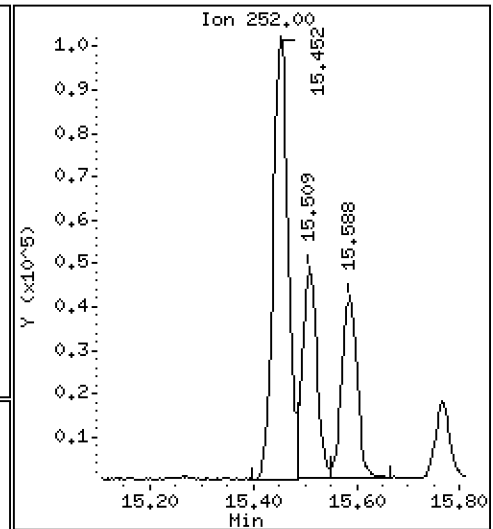
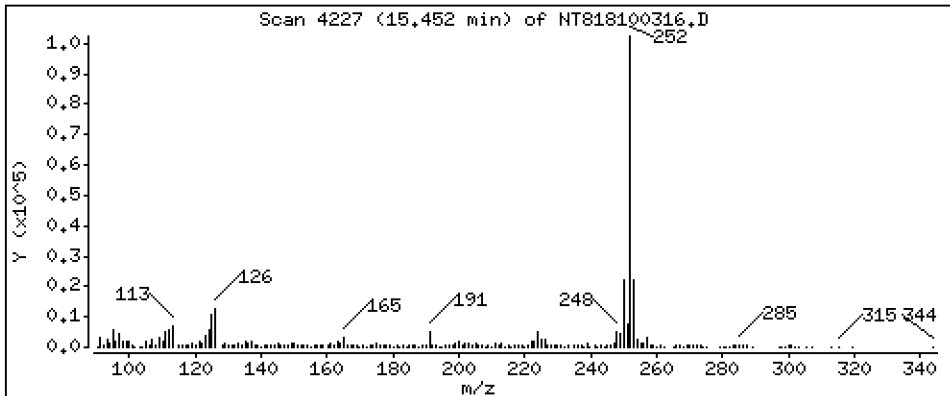
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 5,779 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

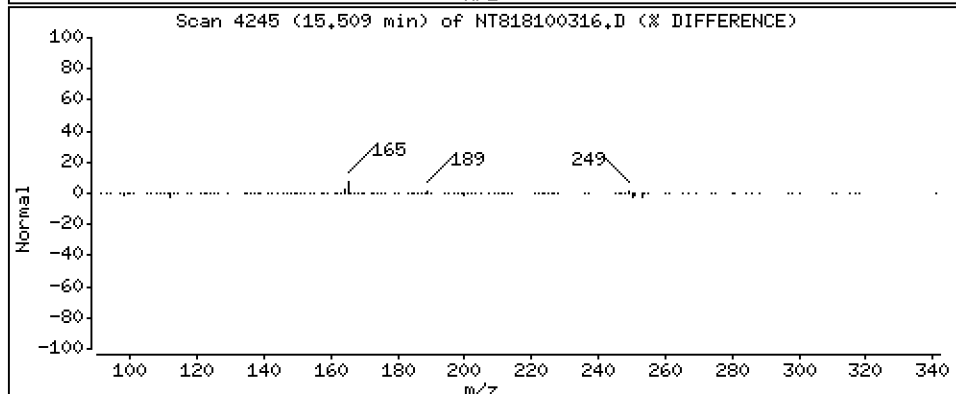
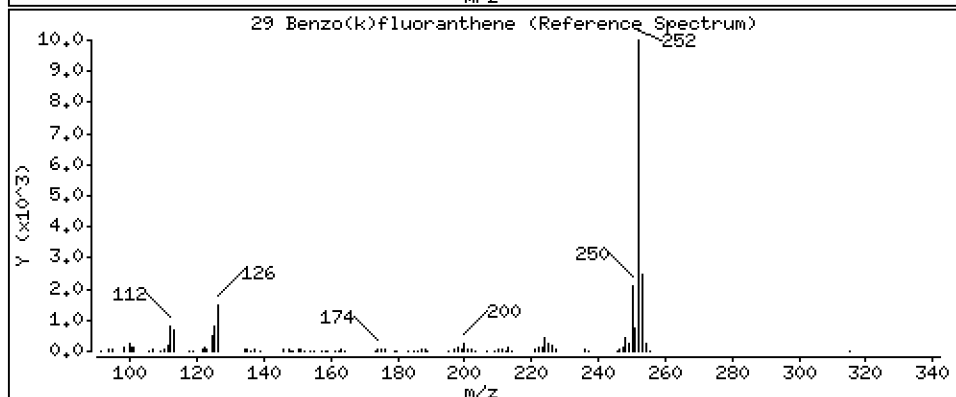
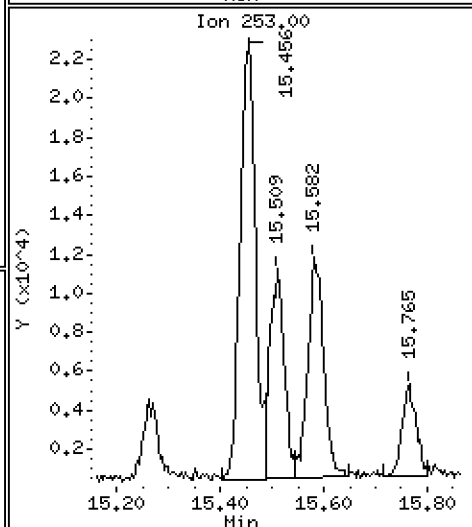
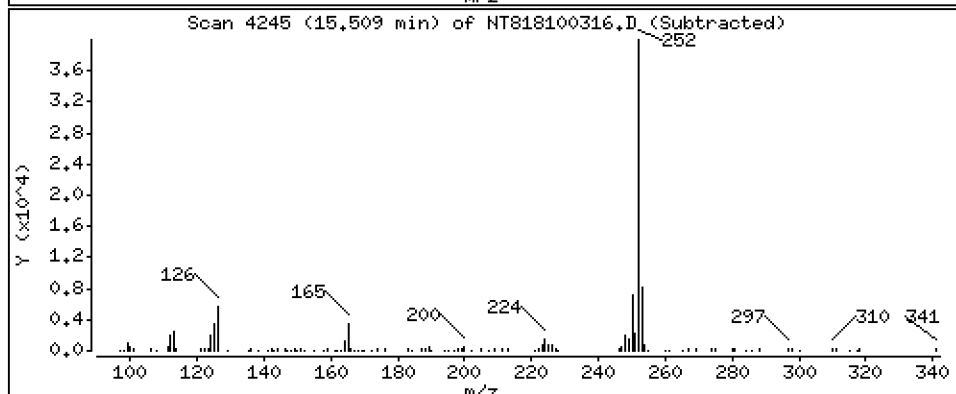
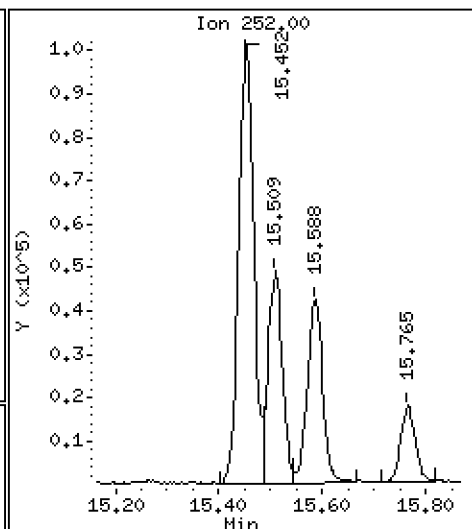
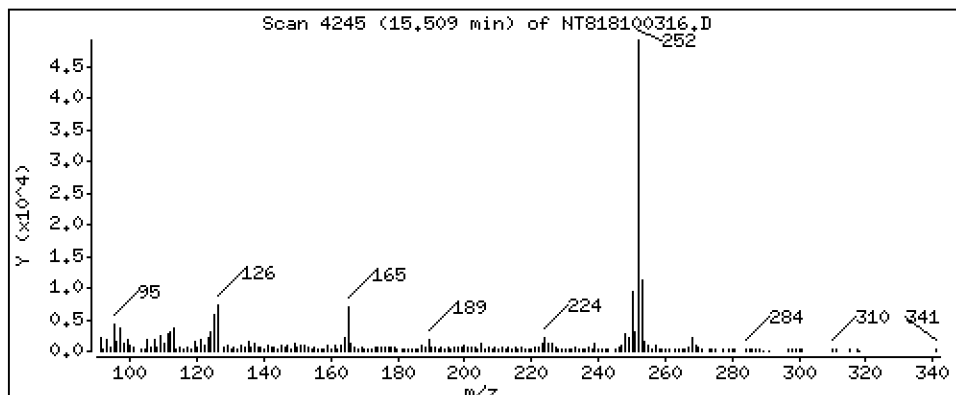
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 2,648 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

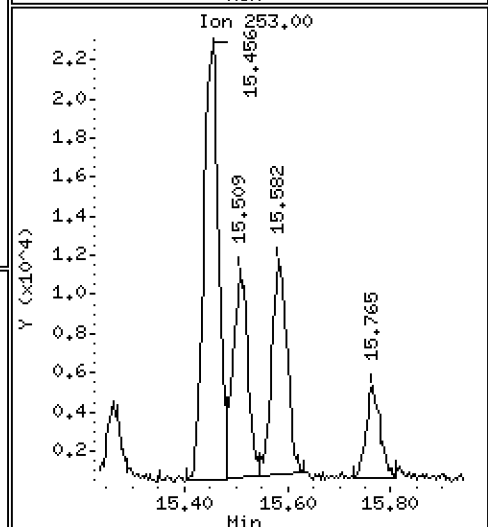
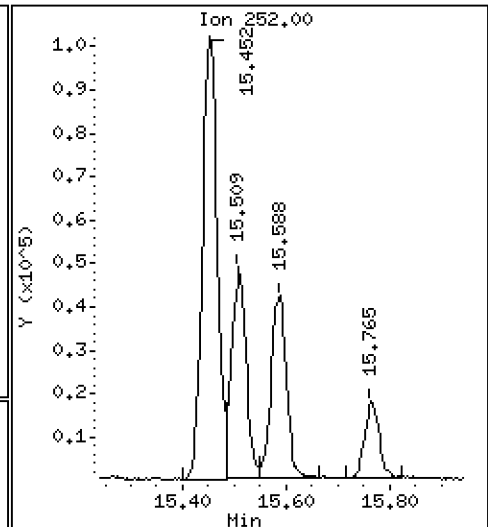
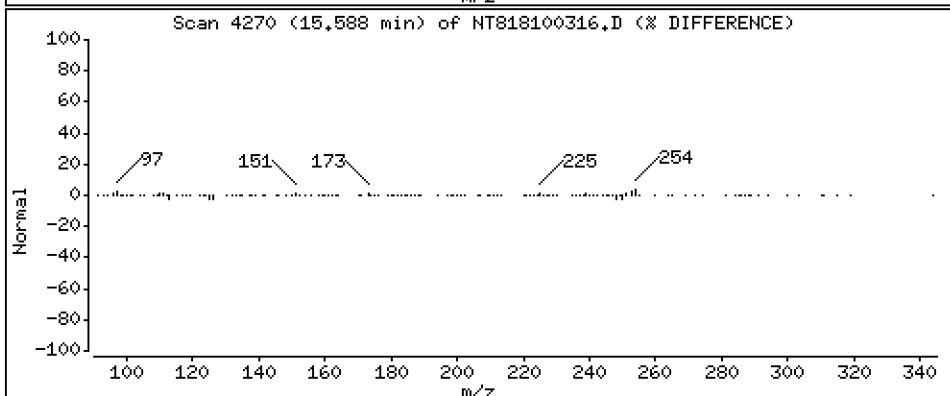
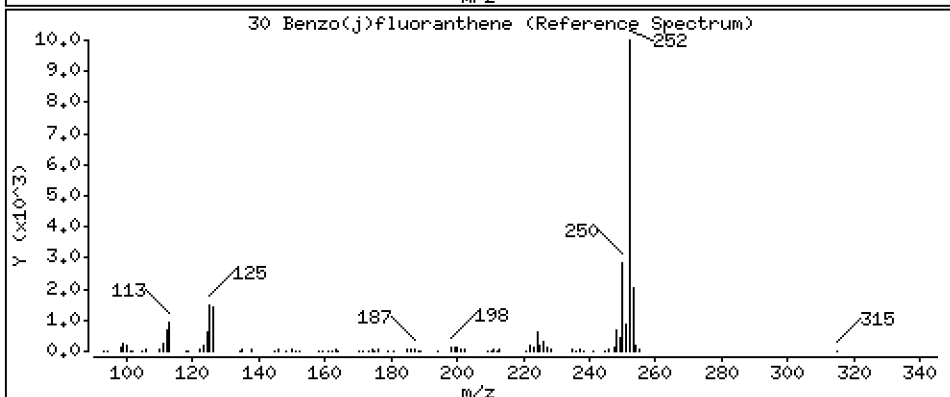
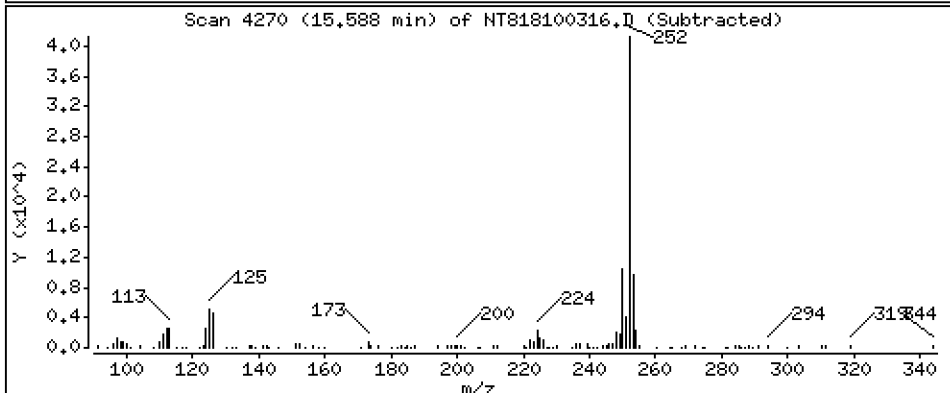
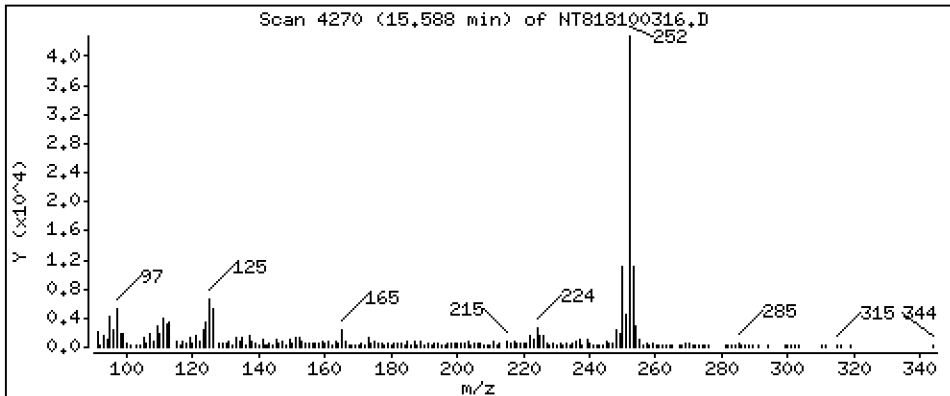
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 2,588 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

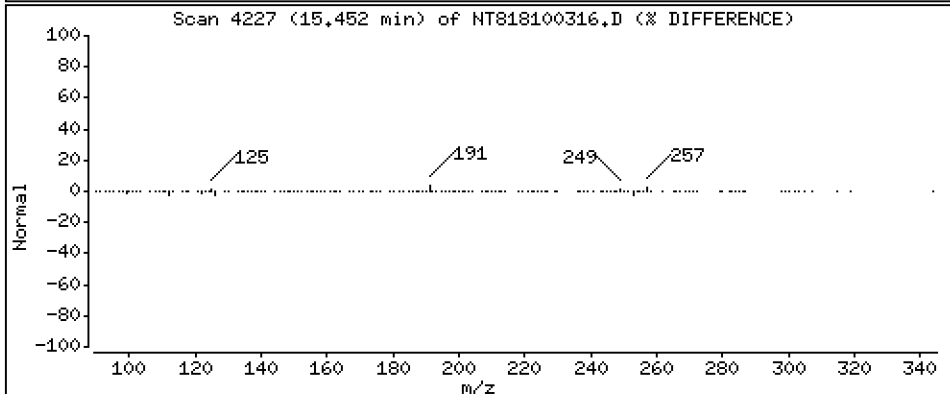
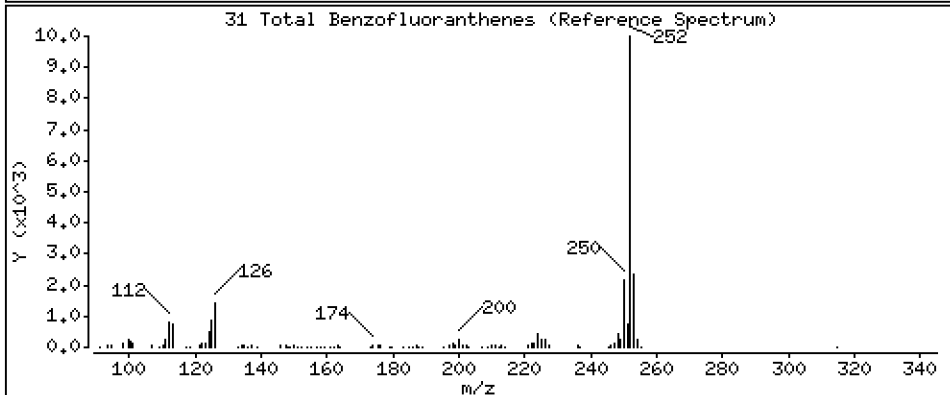
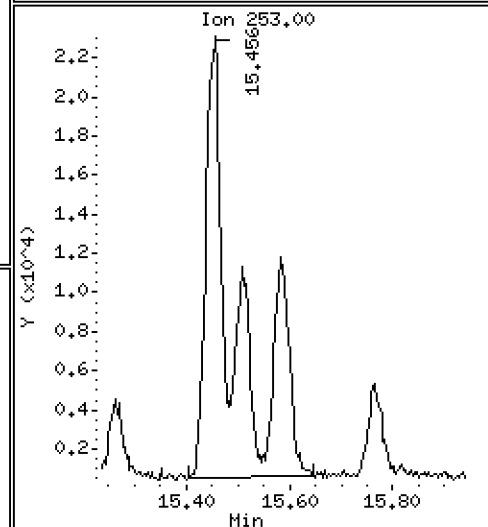
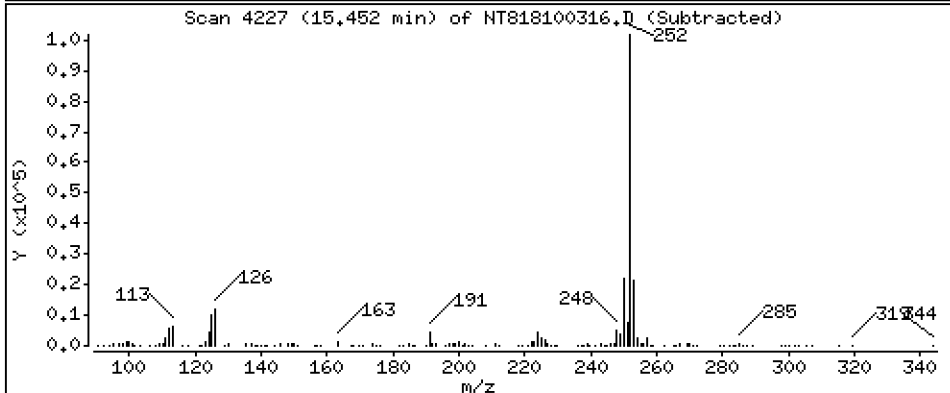
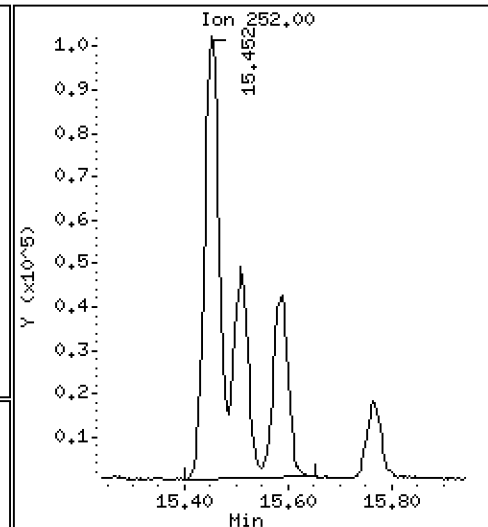
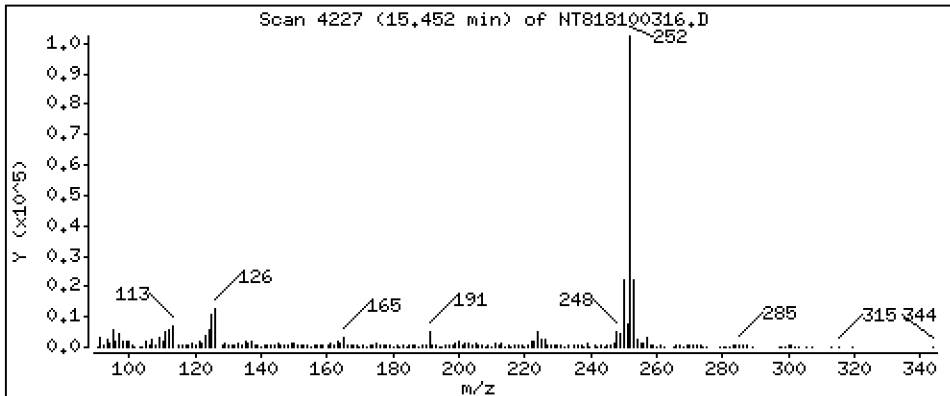
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 10,98 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

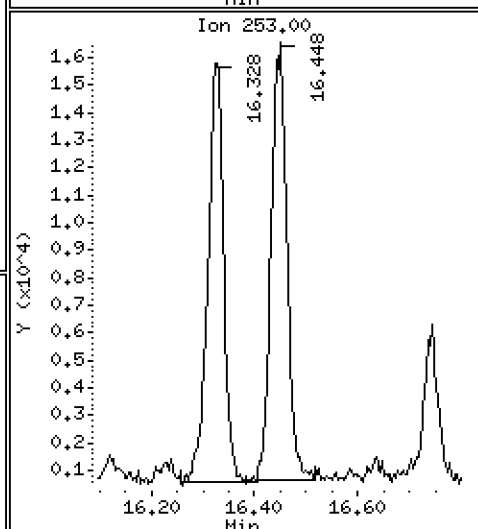
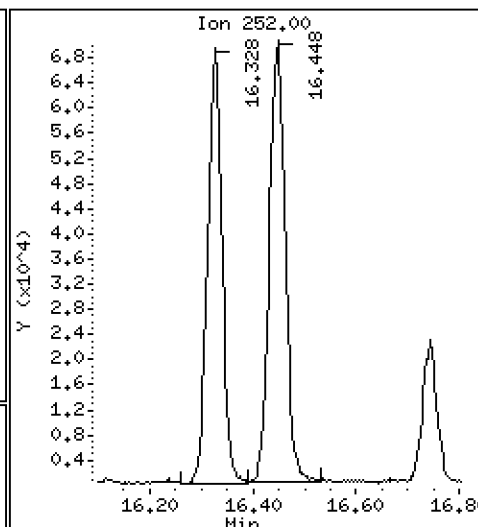
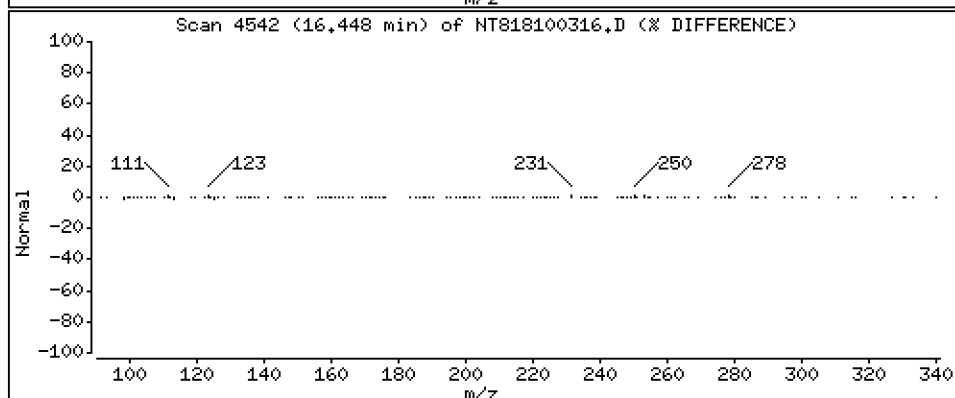
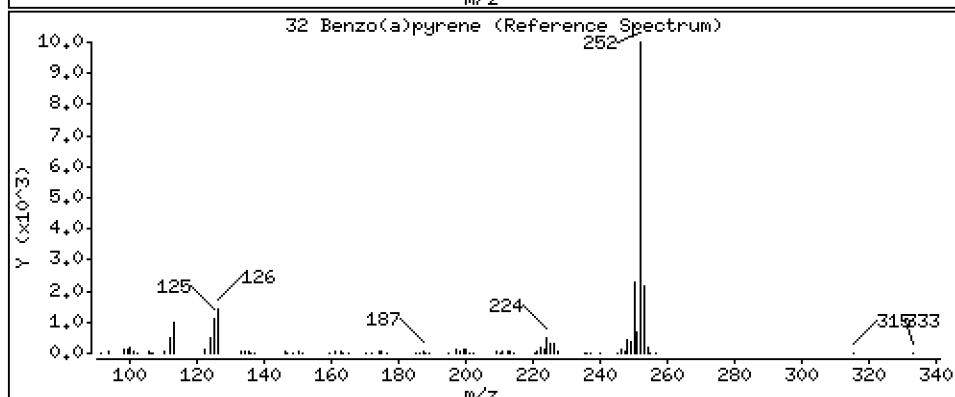
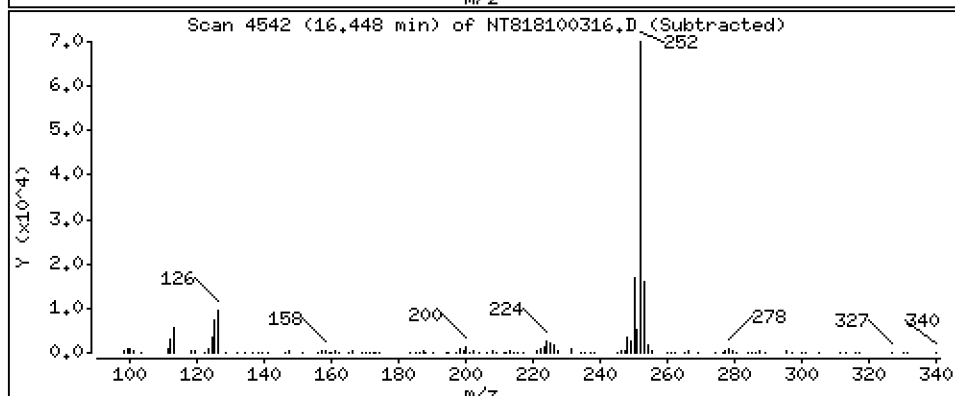
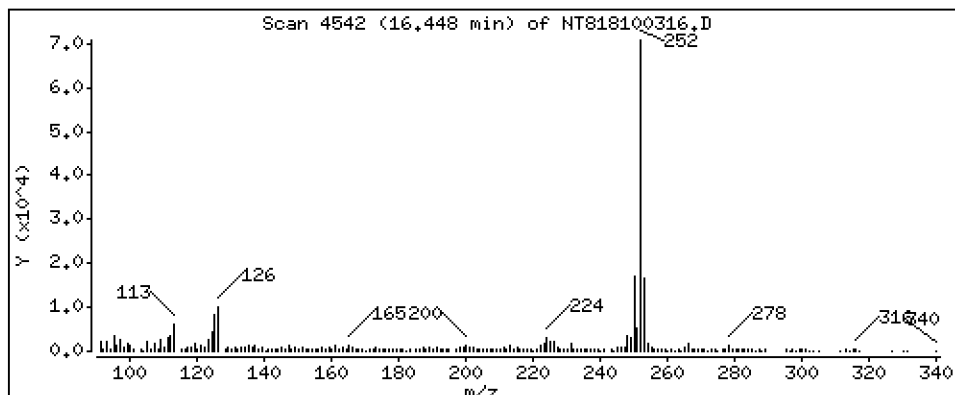
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 4,669 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 18I0285-02RE1,3

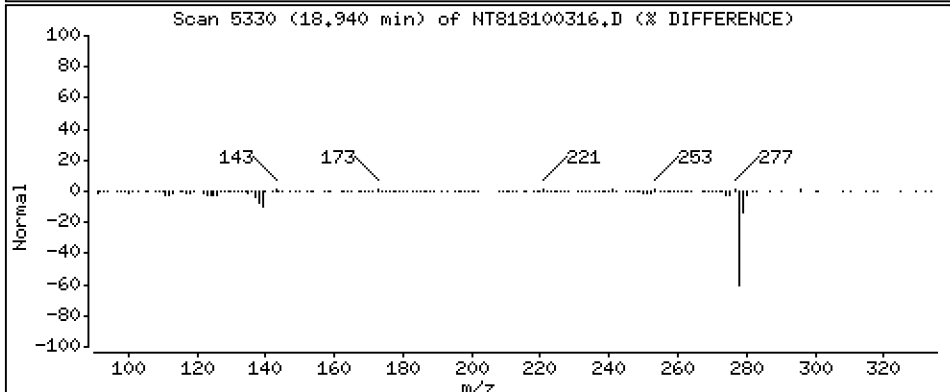
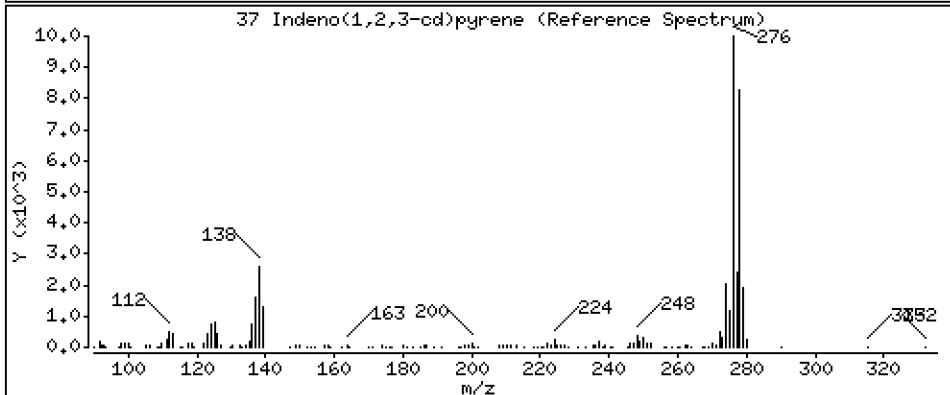
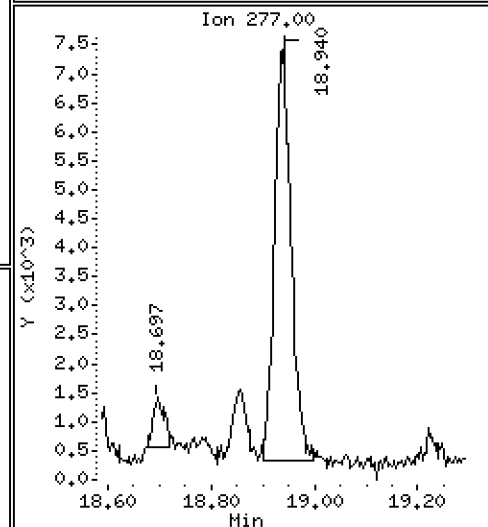
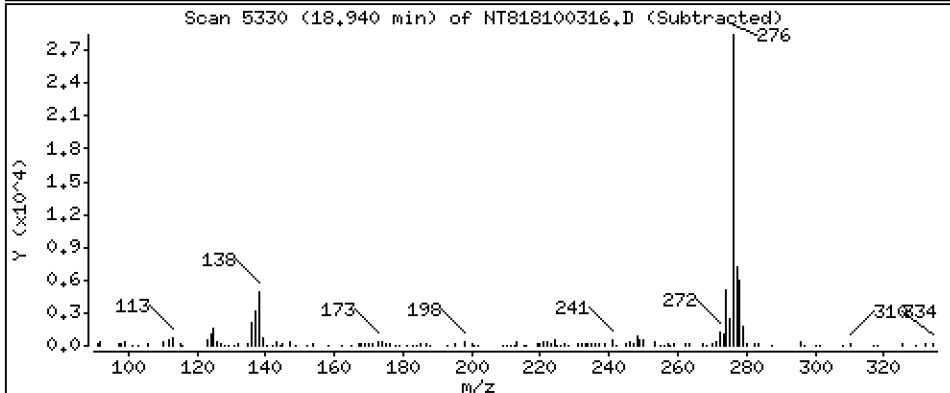
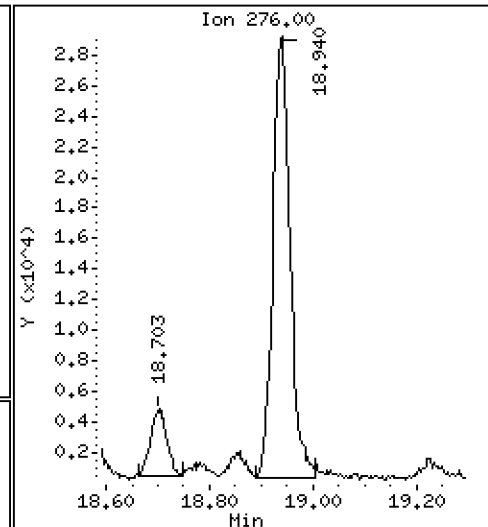
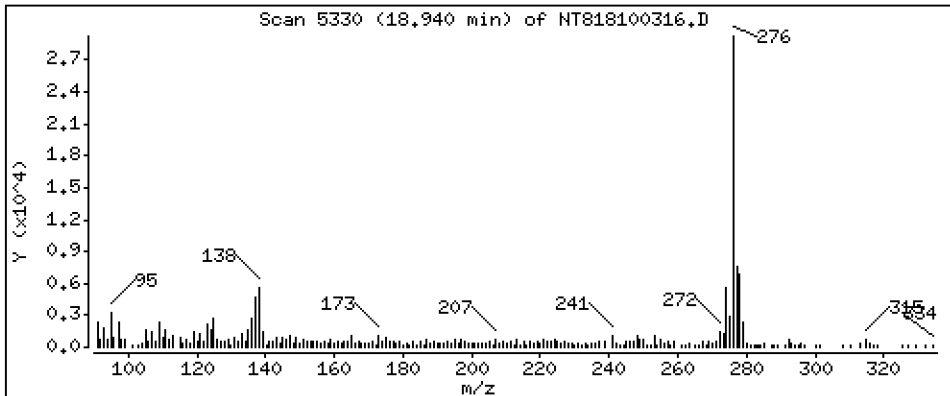
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 1,961 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 18I0285-02RE1,3

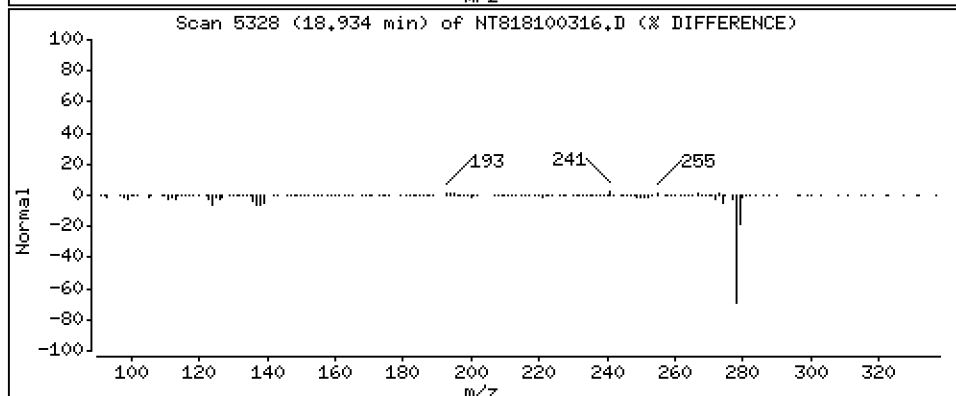
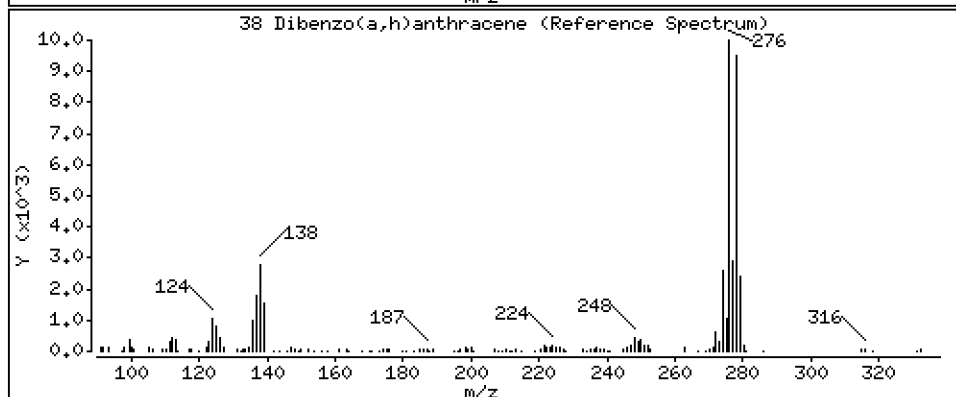
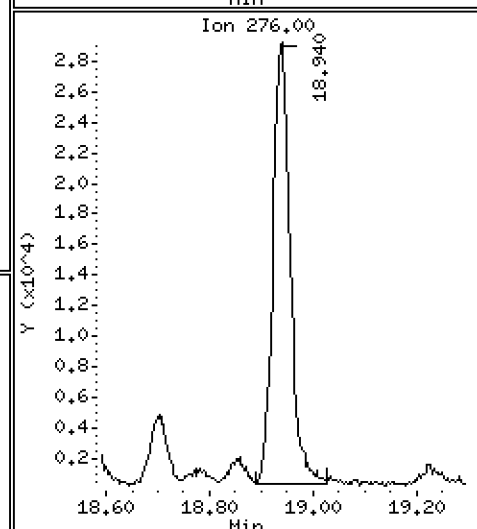
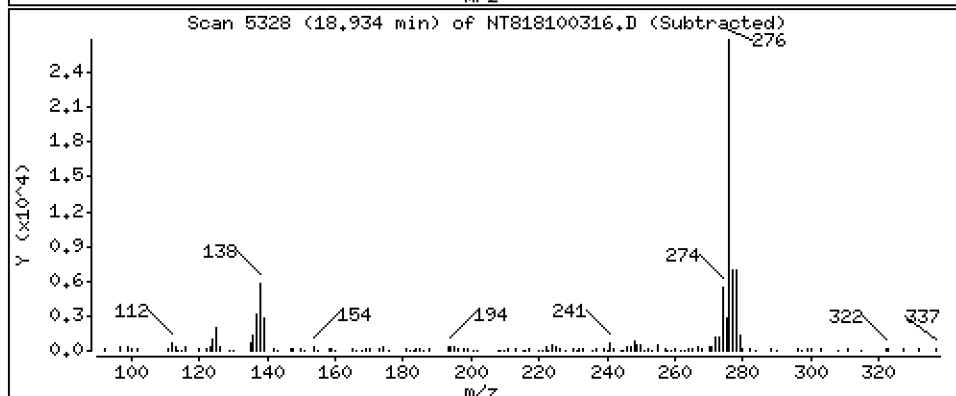
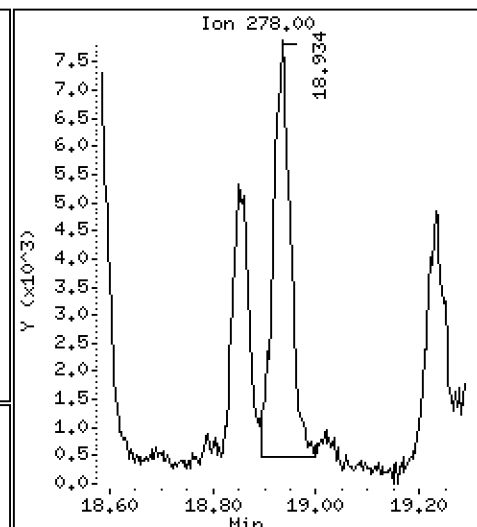
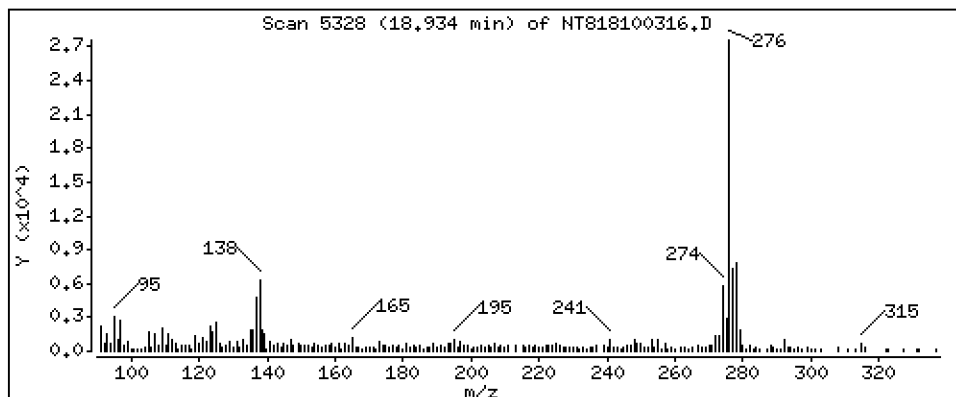
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 0,6011 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

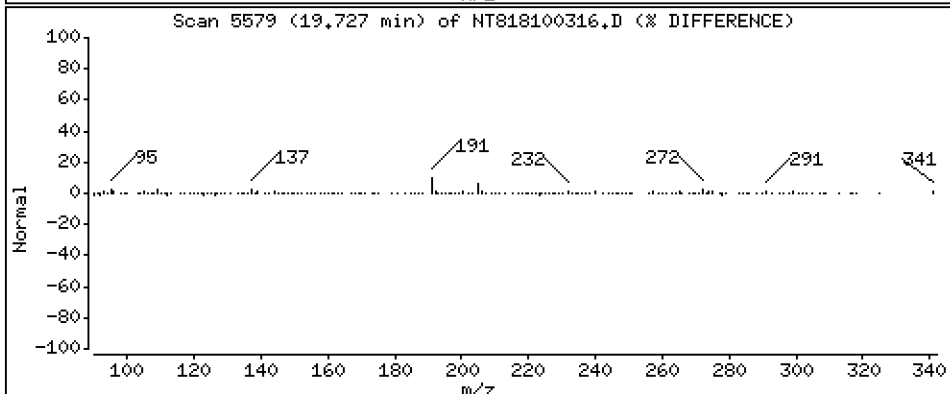
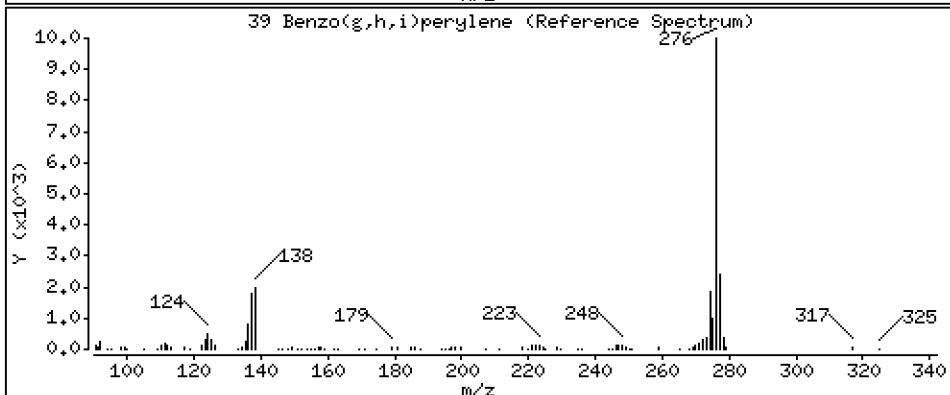
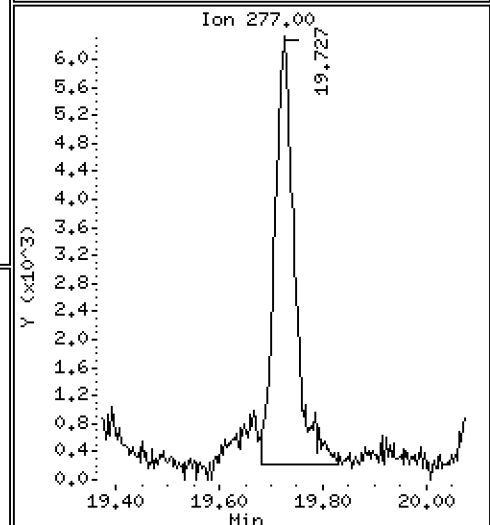
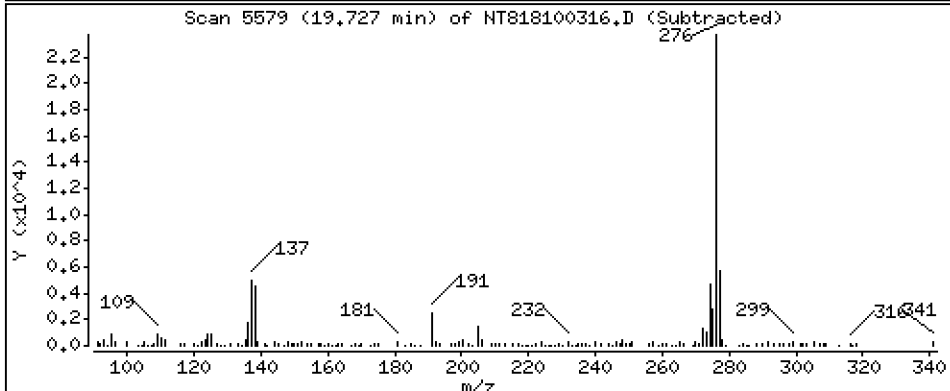
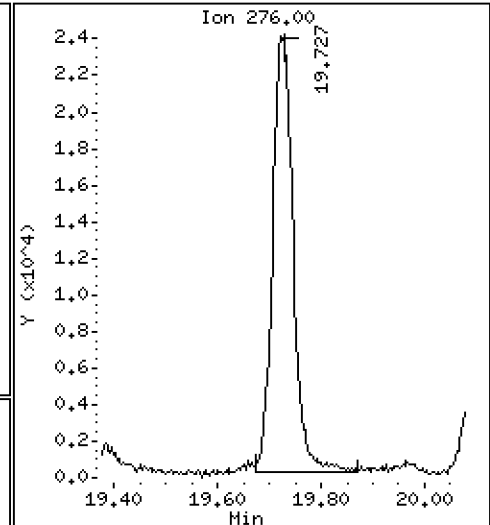
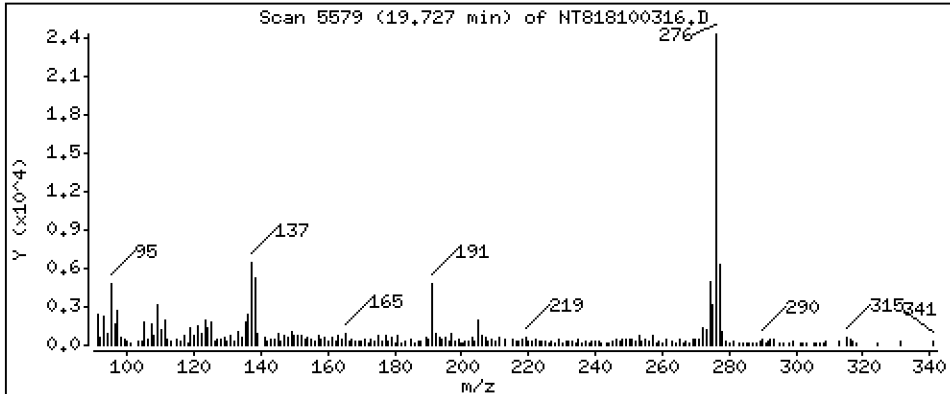
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 2,507 ug/mL



Date : 03-OCT-2018 17:49

Client ID:

Instrument: nt8.i

Sample Info: 1810285-02RE1,3

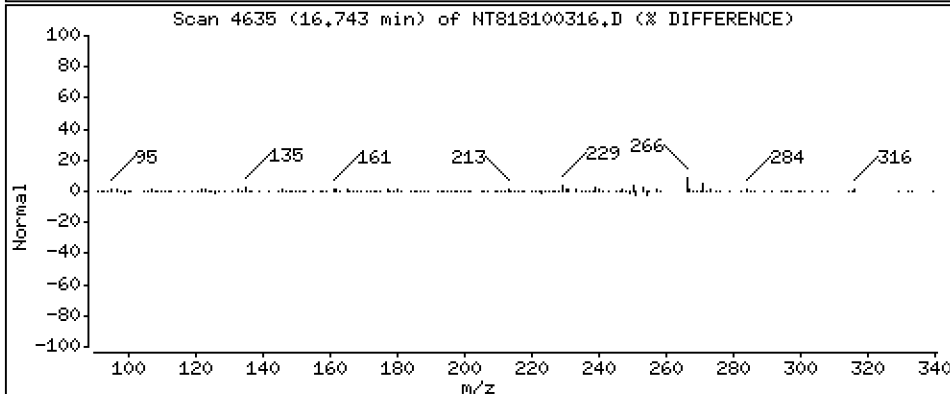
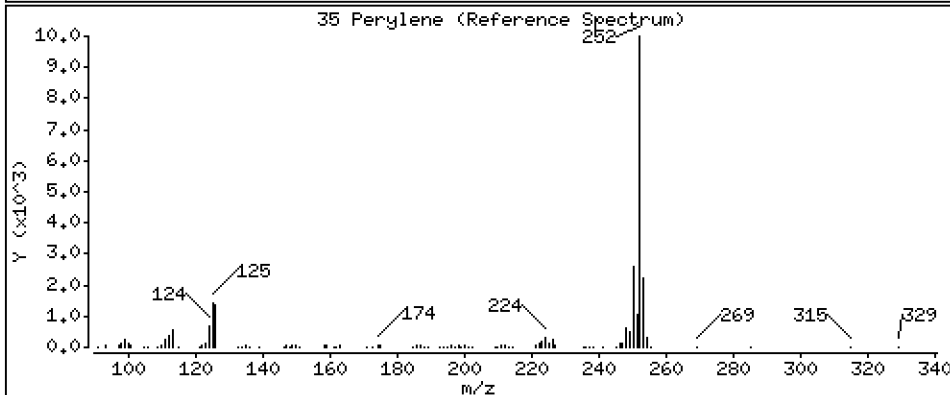
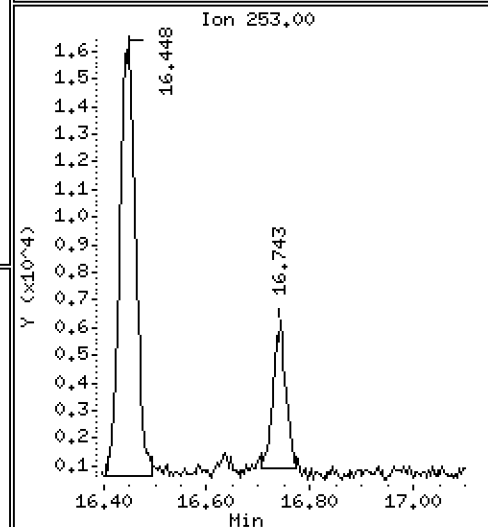
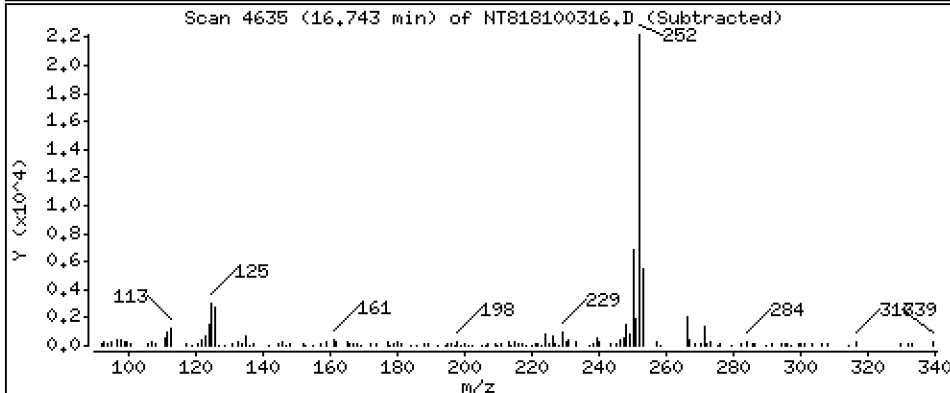
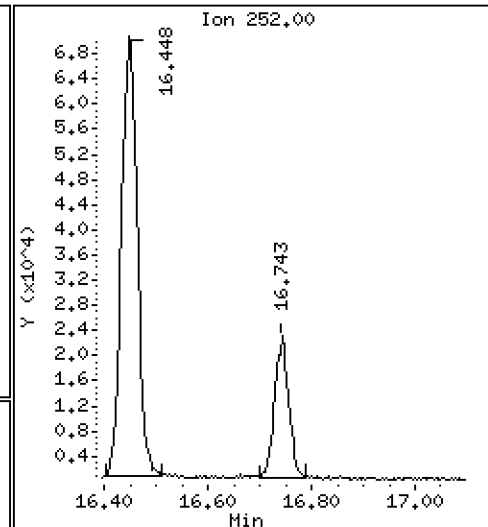
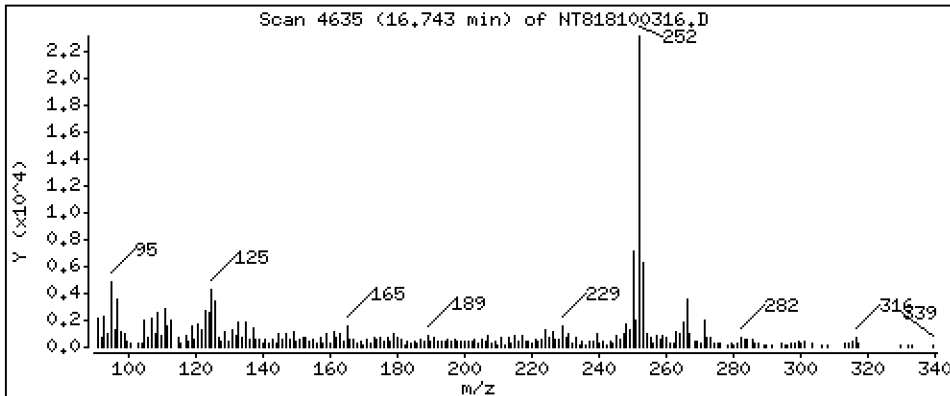
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 1,293 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100316.D
 Lab Smp Id: 18I0285-02RE1
 Inj Date : 03-OCT-2018 17:49
 Operator : JZ Inst ID: nt8.i
 Smp Info : 18I0285-02RE1,3
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 16
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
* 1 Naphthalene-d8	136		4.315	4.319	(1.000)	159130	2.00000	
2 Naphthalene	128		4.344	4.347	(1.007)	492888	5.68314	17.05
\$ 3 2-Methylnaphthalene-d10	152		5.036	5.040	(1.167)	37109	0.65940	1.978
4 2-Methylnaphthalene	141		5.084	5.087	(1.178)	46109	0.94812	2.844
5 1-methylnaphthalene	141		5.277	5.280	(1.223)	33033	0.65974	1.979
9 Acenaphthylene	152		6.453	6.453	(0.983)	54277	0.60374	1.811
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	84759	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.007)	92009	1.51826	4.555
12 Dibenzofuran	168		6.760	6.763	(1.030)	133968	1.59580	4.787
14 Fluorene	166		7.228	7.231	(1.101)	116185	1.67099	5.013
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	166153	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	416825	4.65168	13.96
17 Anthracene	178		8.635	8.638	(1.008)	169628	1.93350	5.800
22 Fluoranthene	202		10.209	10.209	(1.192)	497581	4.77605	14.33
\$ 21 Fluoranthene-d10	212		10.175	10.178	(1.188)	78236	0.74559	2.237
23 Pyrene	202		10.658	10.655	(0.819)	528434	5.11183	15.34
24 Benzo(a)anthracene	228		12.894	12.897	(0.991)	193972	1.94052	5.822
* 25 Chrysene-d12	240		13.014	13.014	(1.000)	173736	2.00000	
27 Chrysene	228		13.080	13.080	(1.005)	312578	3.30852	9.926
28 Benzo(b)fluoranthene	252		15.452	15.458	(0.927)	207674	1.92636	5.779
29 Benzo(k)fluoranthene	252		15.509	15.515	(0.930)	94227	0.88276	2.648
30 Benzo(j)fluoranthene	252		15.588	15.591	(0.935)	87270	0.86253	2.588
31 Total Benzofluoranthenes	252		15.452	15.591	(0.927)	383099	3.66131	10.98 (M)
32 Benzo(a)pyrene	252		16.448	16.451	(0.987)	151342	1.55622	4.669
* 33 Perylene-d12	264		16.672	16.672	(1.000)	172878	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.940	18.943	(1.136)	66966	0.65366	1.961
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.857	18.861	(1.131)	65812	0.84860	2.546
38 Dibenzo(a,h)anthracene	278		18.933	18.936	(1.136)	17287	0.20035	0.6011
39 Benzo(g,h,i)perylene	276		19.727	19.727	(1.183)	66789	0.83558	2.507
35 Perylene	252		16.742	16.745	(1.004)	43235	0.43096	1.293

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100316.D Calibration Time: 11:20
 Lab Smp Id: 18I0285-02RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	159130	20.67
10 Acenaphthene-d10	72272	36136	144544	84759	17.28
15 Phenanthrene-d10	156058	78029	312116	166153	6.47
25 Chrysene-d12	174389	87195	348778	173736	-0.37
33 Perylene-d12	150701	75351	301402	172878	14.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.32	-0.07
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.04
25 Chrysene-d12	13.01	12.51	13.51	13.01	0.00
33 Perylene-d12	16.67	16.17	17.17	16.67	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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100316.D

Lab ID: 18I0285-02RE1
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 17:49

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.927	0.935	-0.0084	Total Benzofluoranthenes

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

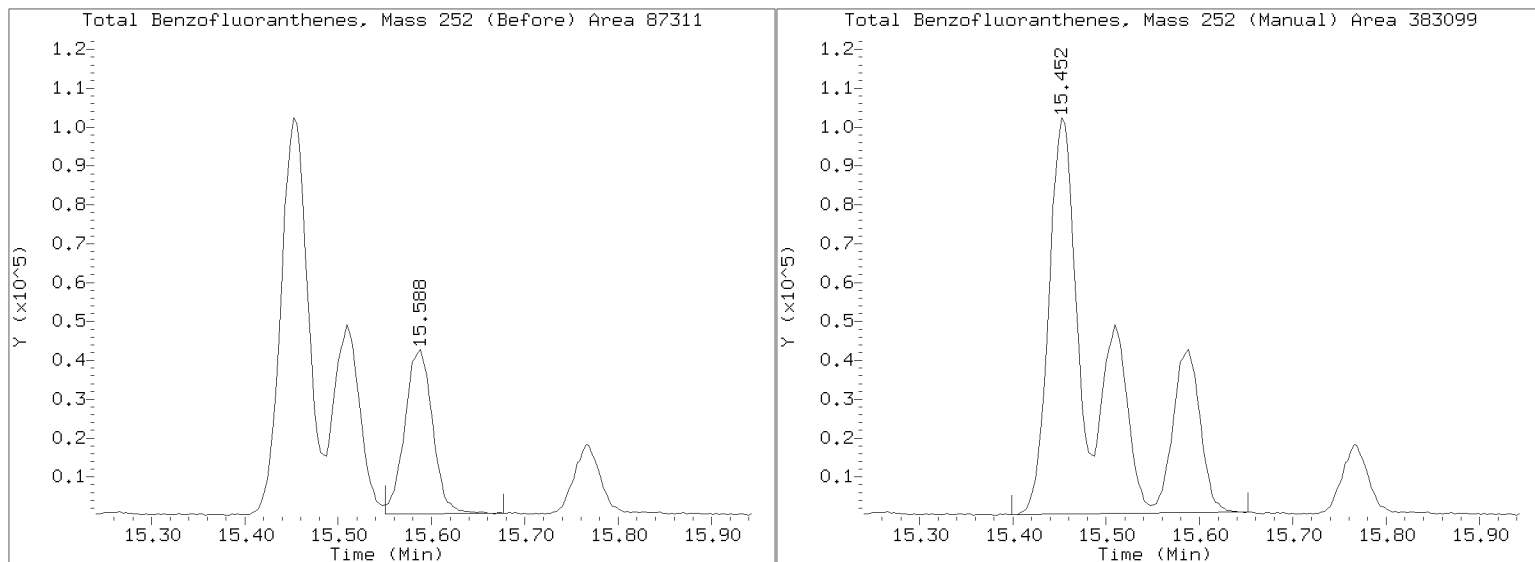
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100316.D

Injection Date: 03-OCT-2018 17:49

Lab ID:18I0285-02RE1 Client ID:

Report Date: 10/09/2018 16:41





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270D-SIM
Polynuclear Aromatic Hydrocarbons

Laboratory: Analytical Resources, Inc.
 Client: Anchor OEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 1810285-03 SDG: 1810285
 Sampled: 09/19/18 10:25 Prepared: 09/26/18 15:45 File ID: NT818100309.D
 % Solids: 83.61 Preparation: EPA 3546 (Microwave) Analyzed: 10/03/18 14:41
 Batch: BGI0708 Sequence: SGJ0048 Initial/Final: 12.1 g Wet / 0.5 mL
 Instrument: NT8 Column: RXI-17Sil ms Calibration: BH00016
 Cleanups: Silica Gel, Sulfur

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	19.3		1.26	4.94
91-57-6	2-Methylnaphthalene	1	4.03	J	1.09	4.94
90-12-0	1-Methylnaphthalene	1	2.48	J	0.40	4.94
208-96-8	Acenaphthylene	1	3.33	J	1.07	4.94
83-32-9	Acenaphthene	1	4.90	J	0.56	4.94
86-73-7	Fluorene	1	4.64	J	0.62	4.94
85-01-8	Phenanthrene	1	16.9		0.71	4.94
120-12-7	Anthracene	1	4.81	J	0.86	4.94
206-44-0	Fluoranthene	1	20.1		0.46	4.94
129-00-0	Pyrene	1	18.9		0.62	4.94
56-55-3	Benzo(a)anthracene	1	3.65	J	0.81	4.94
218-01-9	Chrysene	1	4.65	J	1.04	4.94
205-99-2	Benzo(b)fluoranthene	1	3.25	J	1.36	4.94
207-08-9	Benzo(k)fluoranthene	1	1.72	J	0.75	4.94
205-82-3	Benzo(j)fluoranthene	1	1.79	J	0.67	4.94
50-32-8	Benzo(a)pyrene	1	3.54	J	0.61	4.94
193-39-5	Indeno(1,2,3-cd)pyrene	1	4.94	U	1.04	4.94
53-70-3	Dibenzo(a,h)anthracene	1	4.94	U	0.88	4.94
191-24-2	Benzo(g,h,i)perylene	1	6.24		1.05	4.94
	Benzo(a)fluoranthenes, Total	1	7.01	J	2.97	9.88

SURROGATES	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	148.27	86.3	58.2	32 - 120	
Dibenzo[a,h]anthracene-d14	148.27	139	93.8	21 - 133	
Fluoranthene-d10	148.27	109	73.7	36 - 134	

Data File: \\target\share\chem3\nt8.1\20181003.b\NT818100309.D

Date: 03-OCT-2018 14:41

Client ID:

Sample Info: 1810285-03

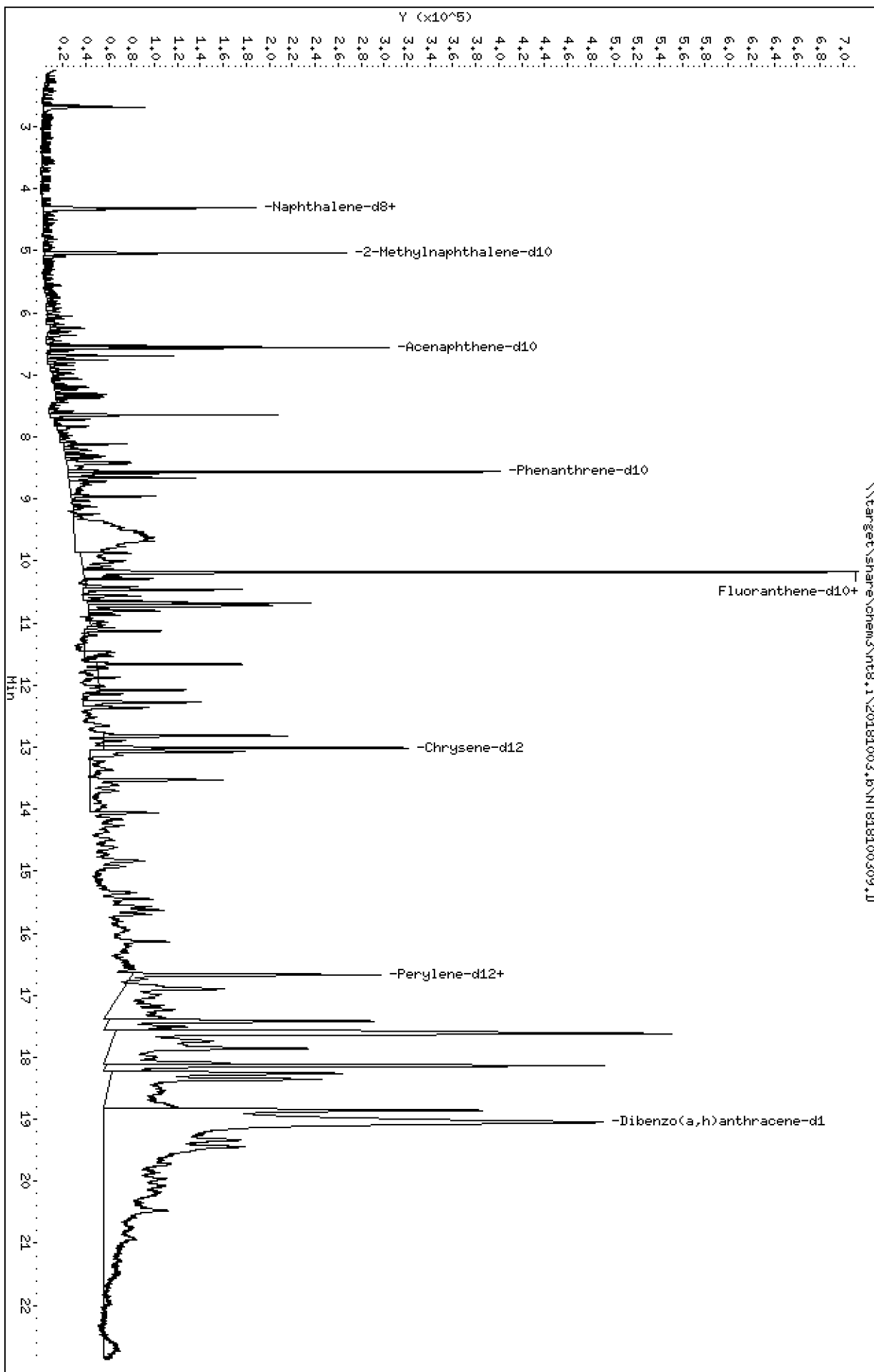
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

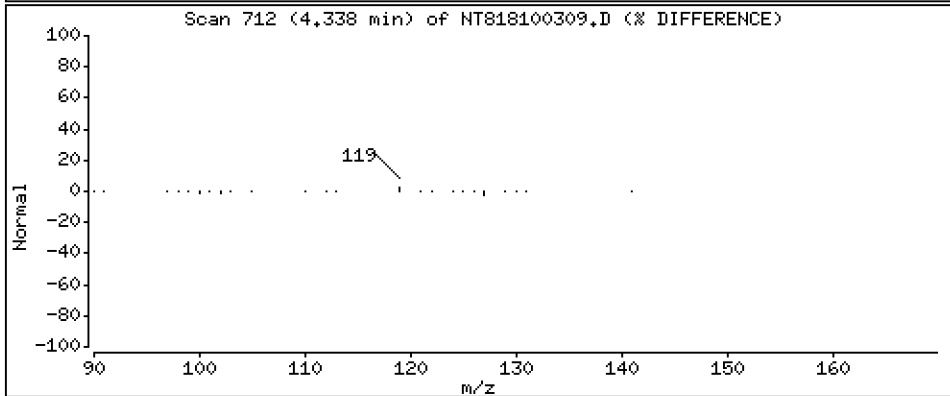
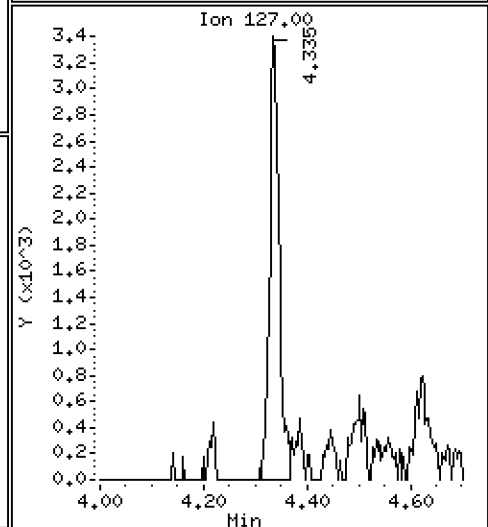
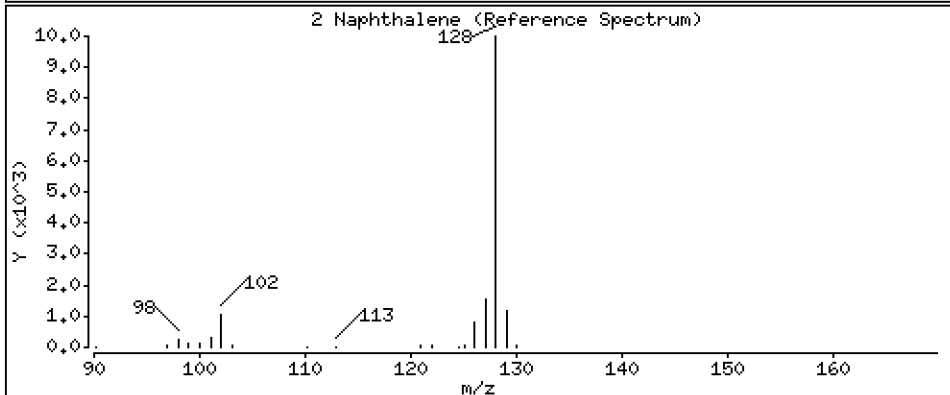
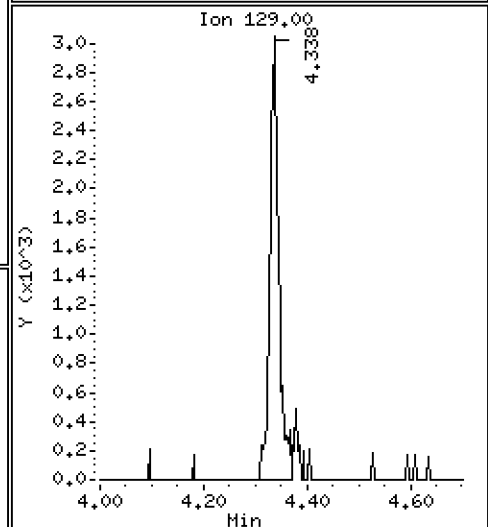
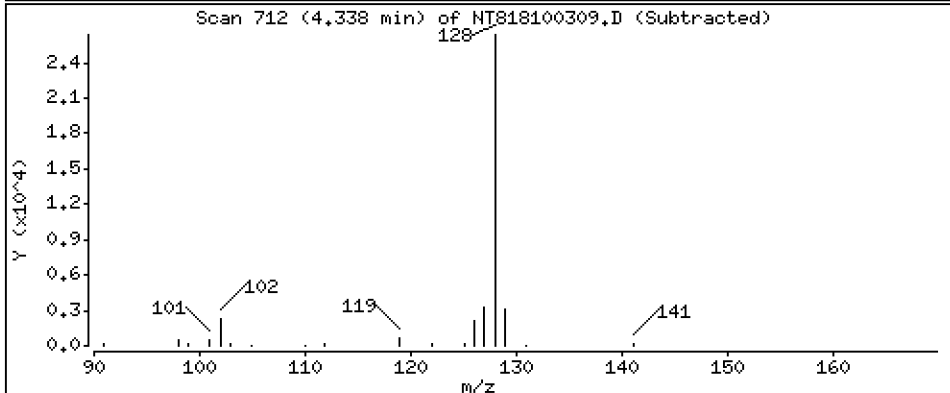
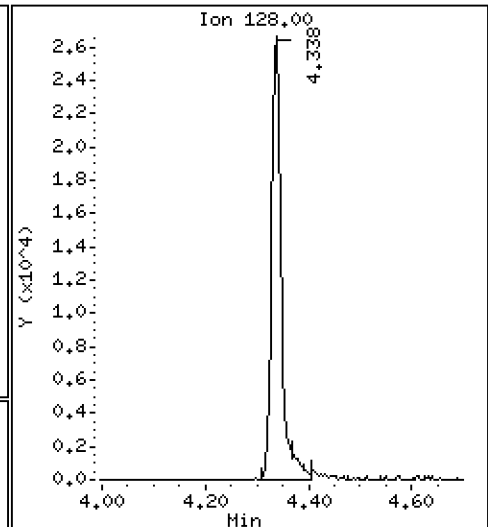
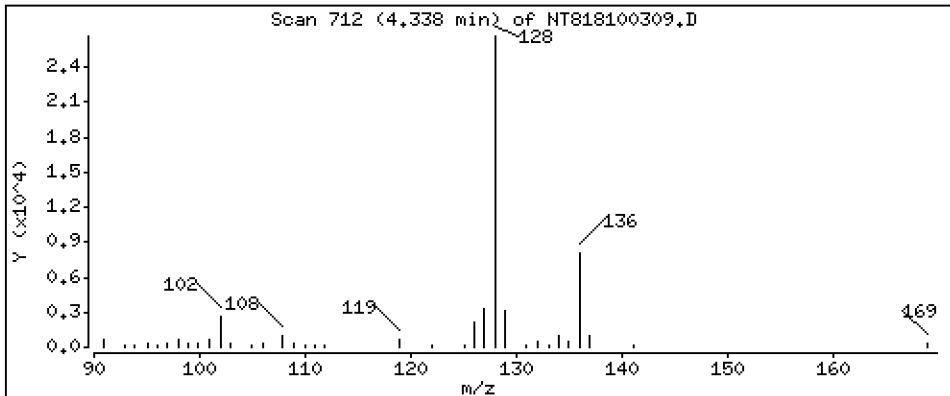
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 0.3897 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

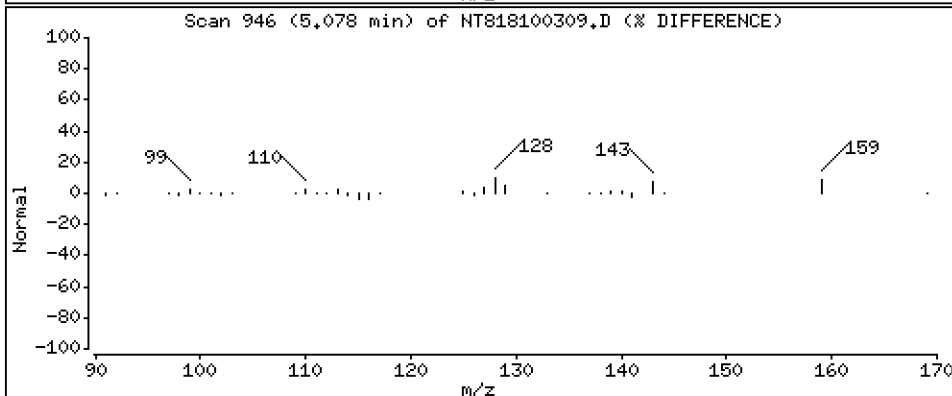
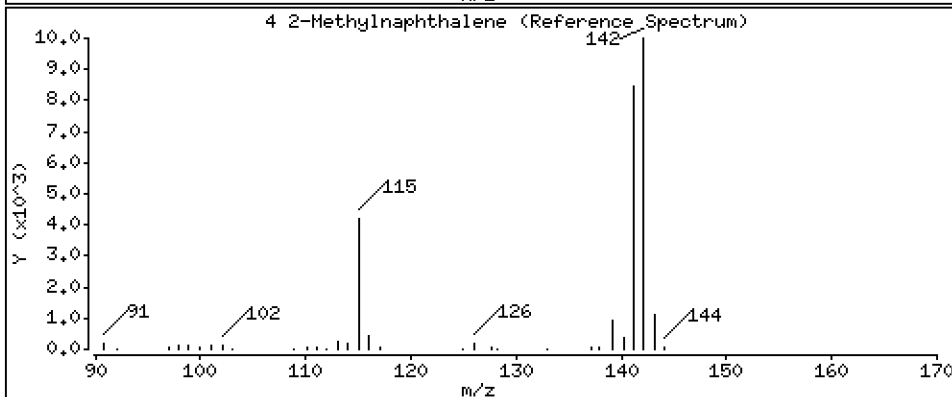
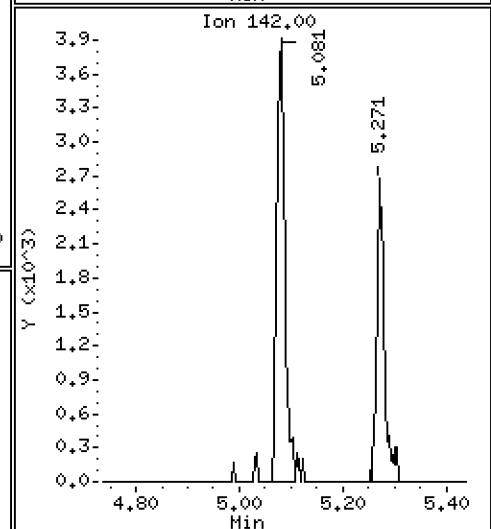
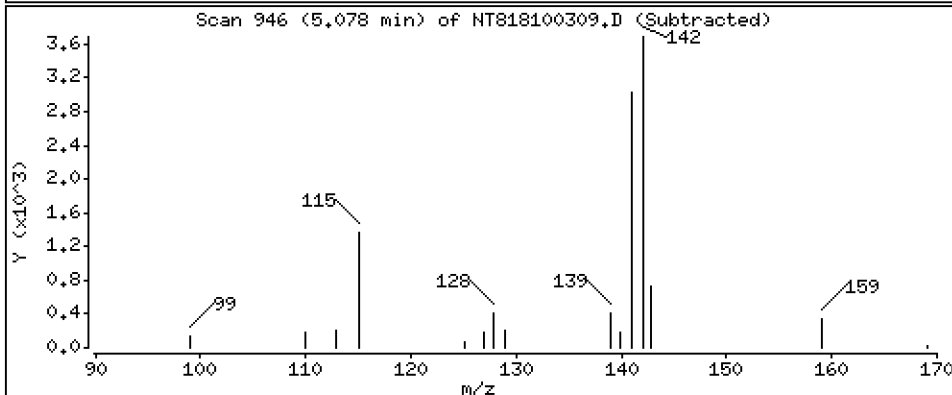
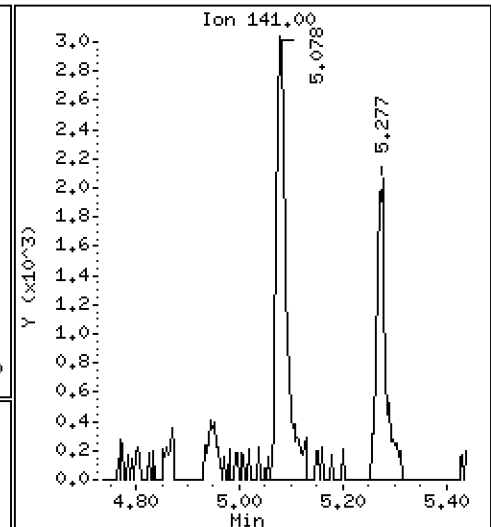
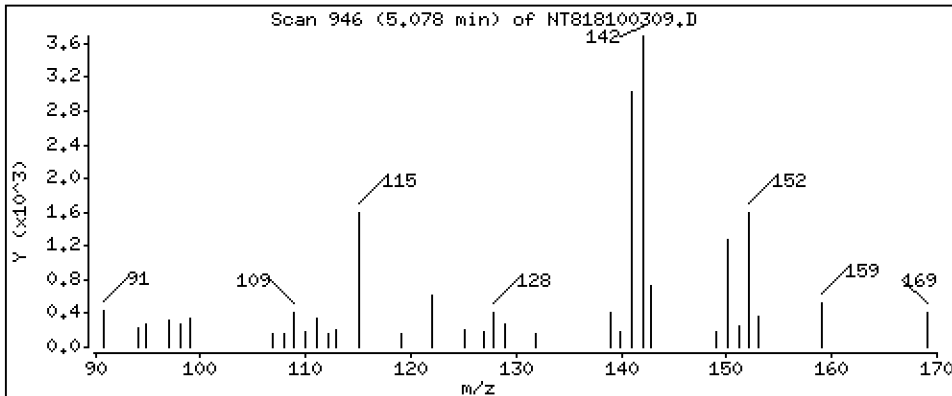
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4-Methylnaphthalene

Concentration: 0.08154 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

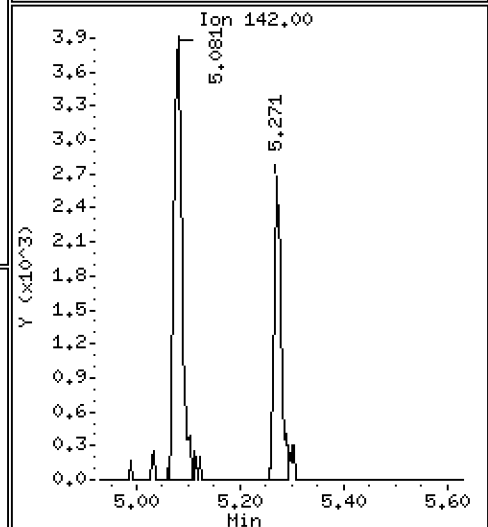
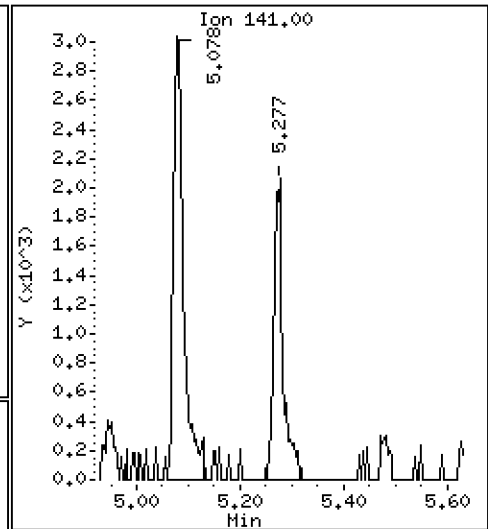
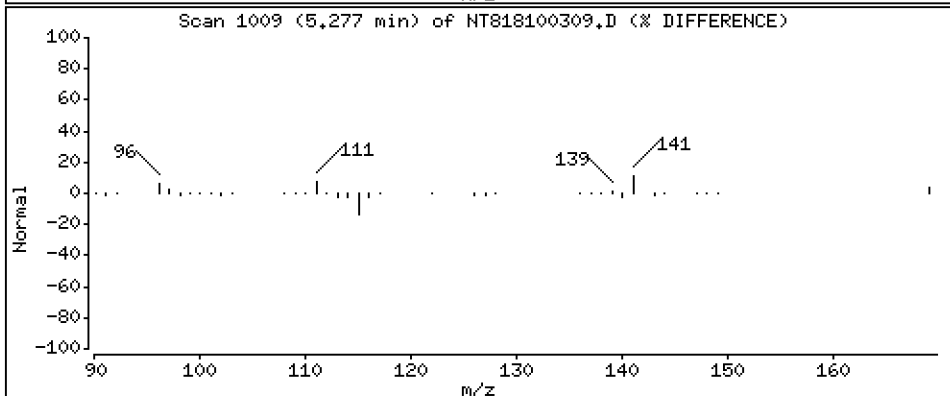
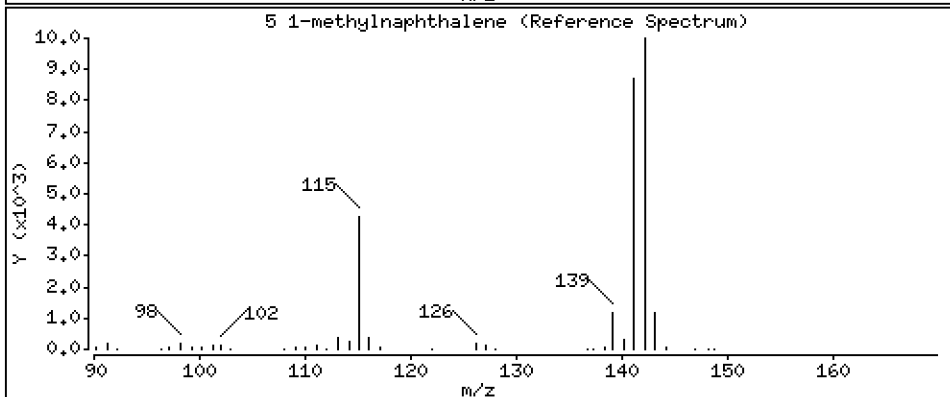
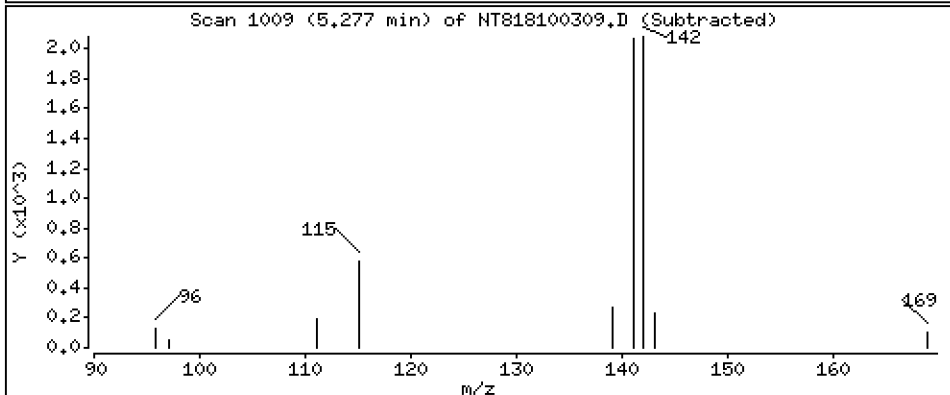
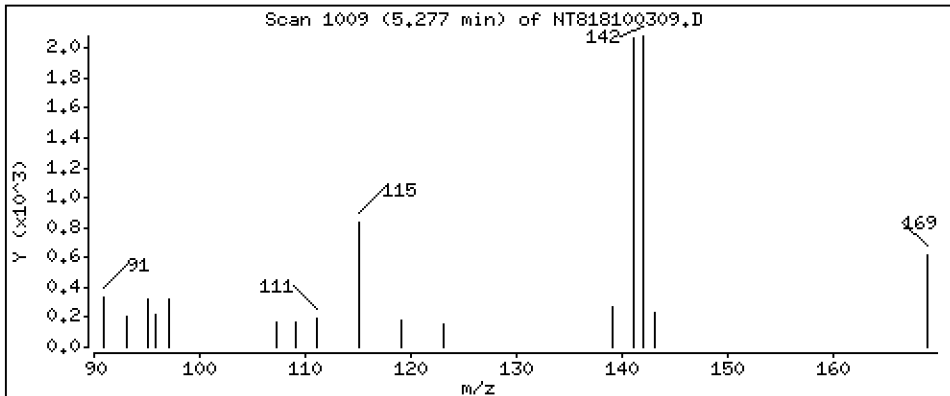
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

5 1-methylnaphthalene

Concentration: 0.05015 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

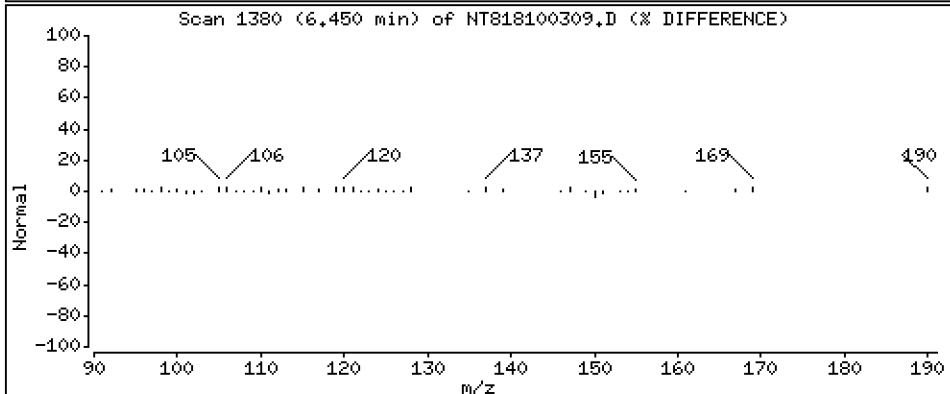
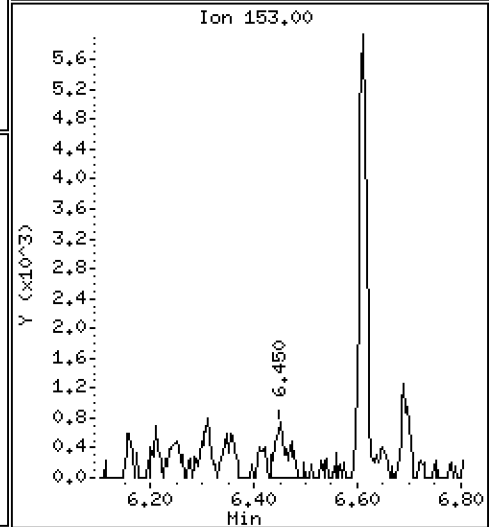
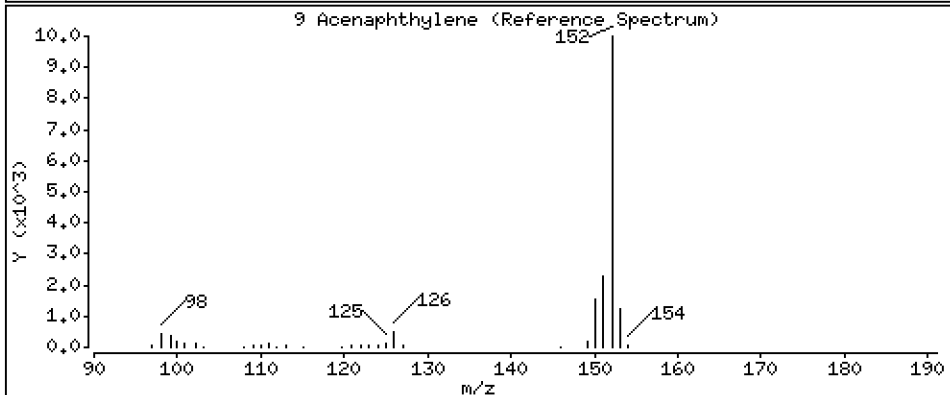
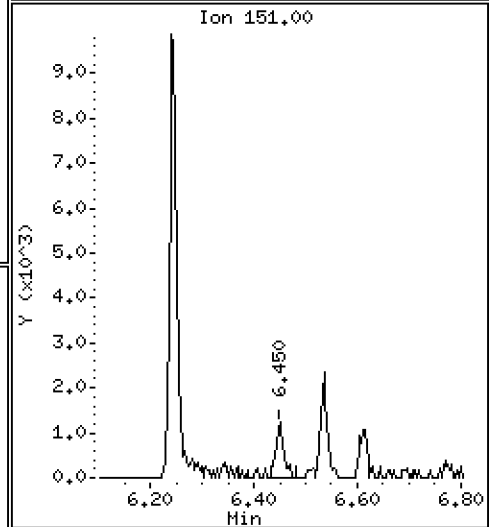
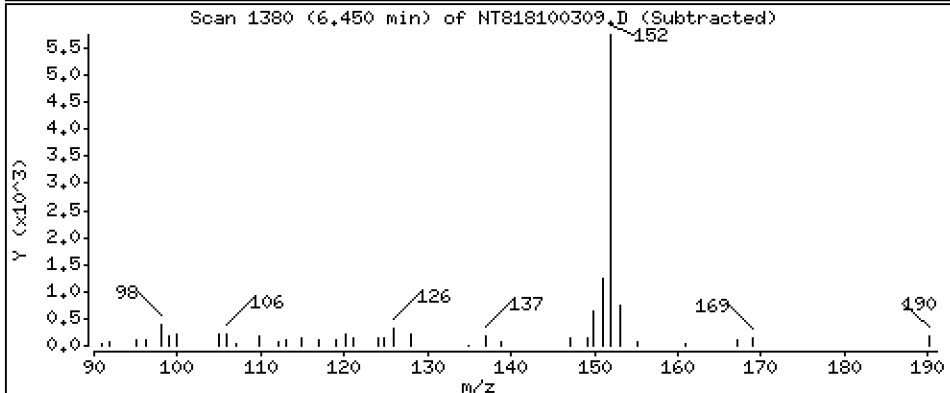
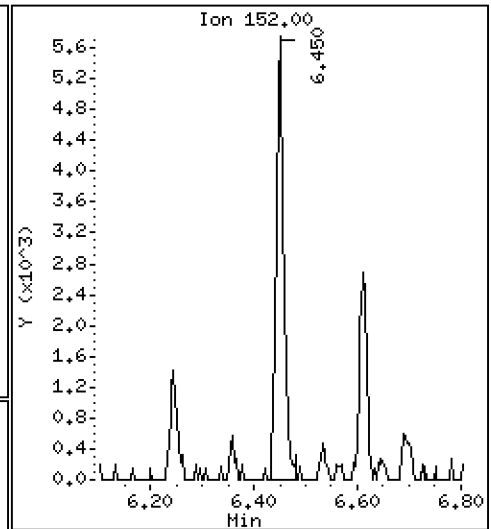
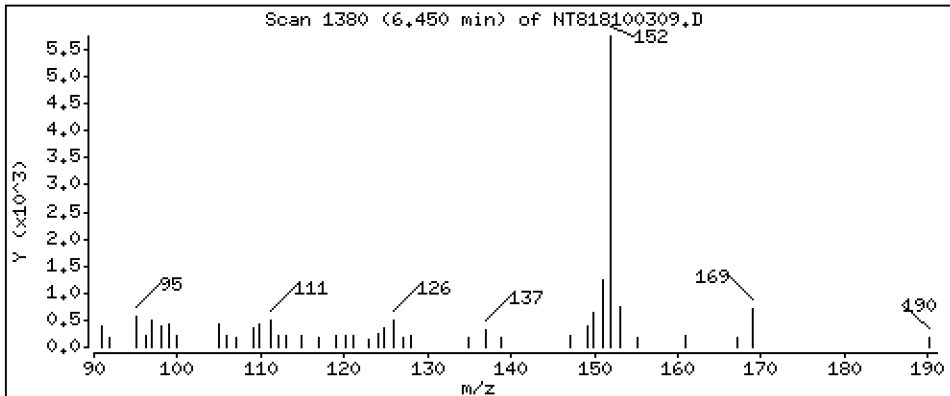
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

9 Acenaphthylene

Concentration: 0,06735 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

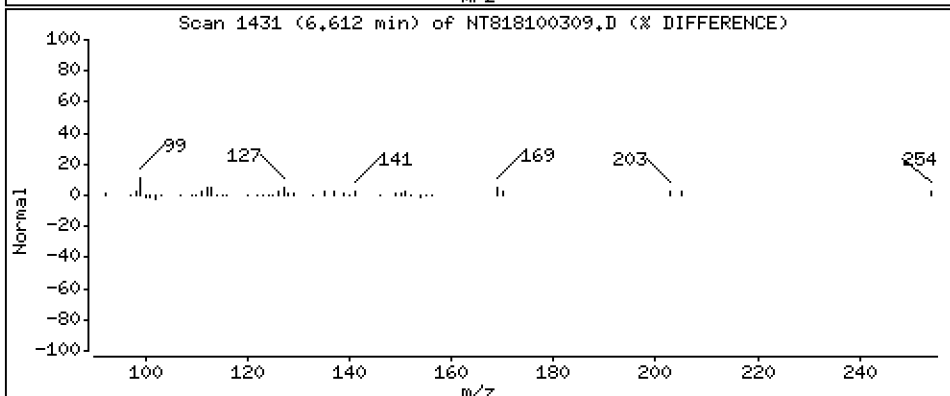
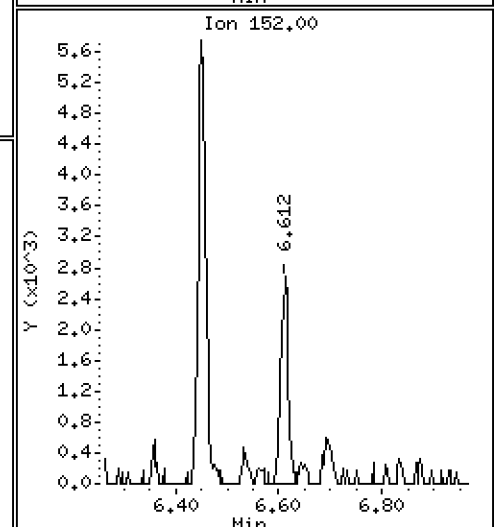
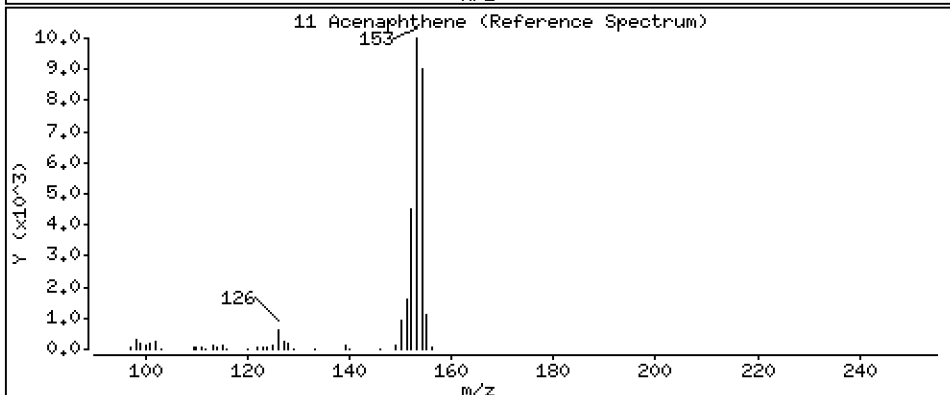
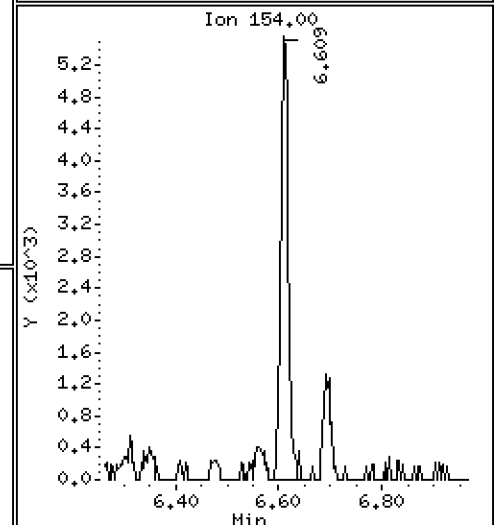
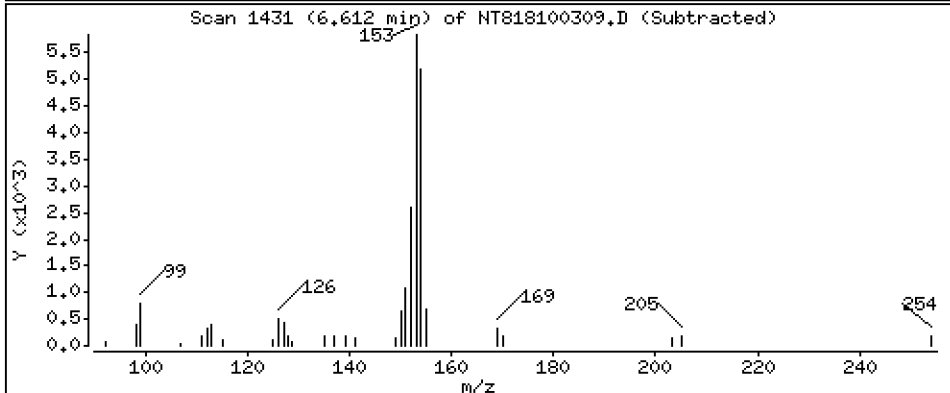
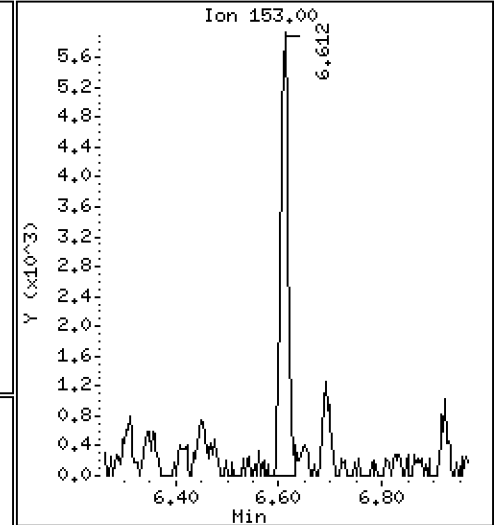
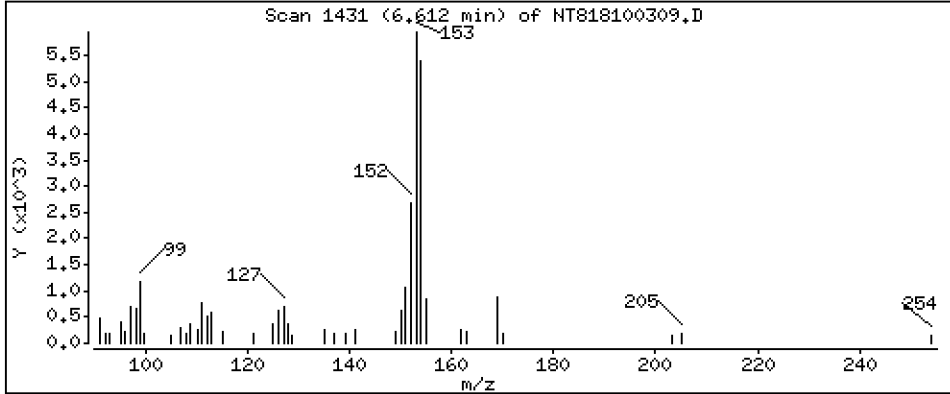
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,09911 ug/mL

11 Acenaphthene



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

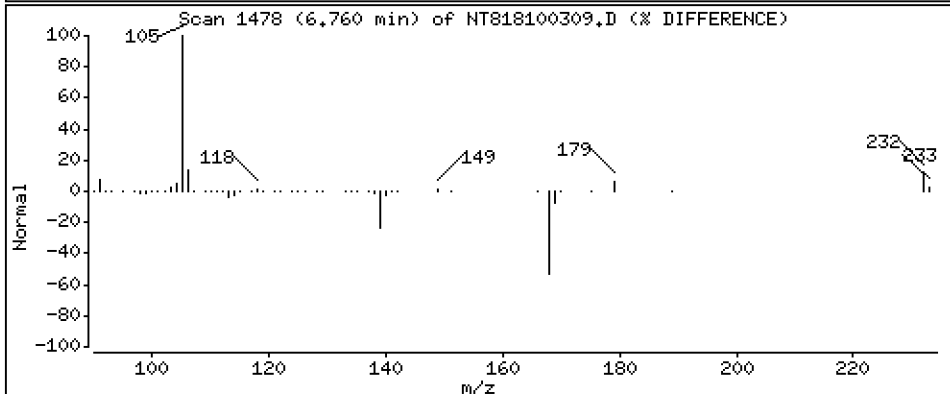
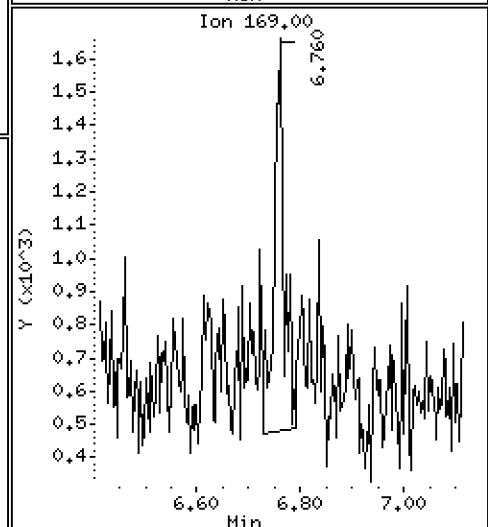
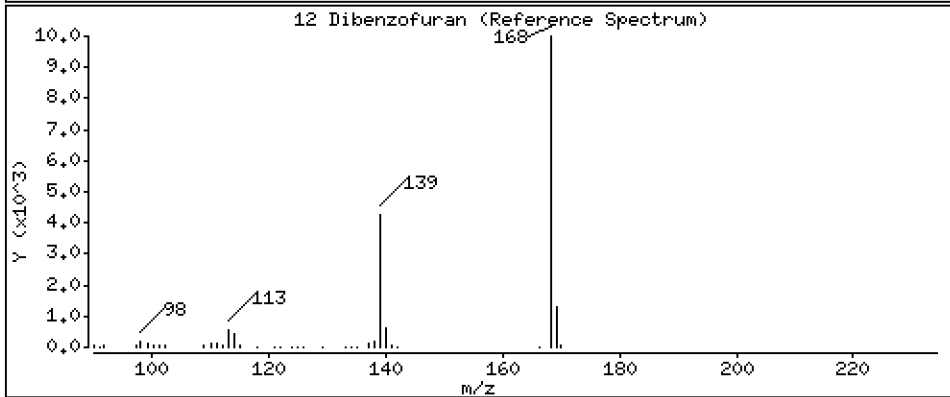
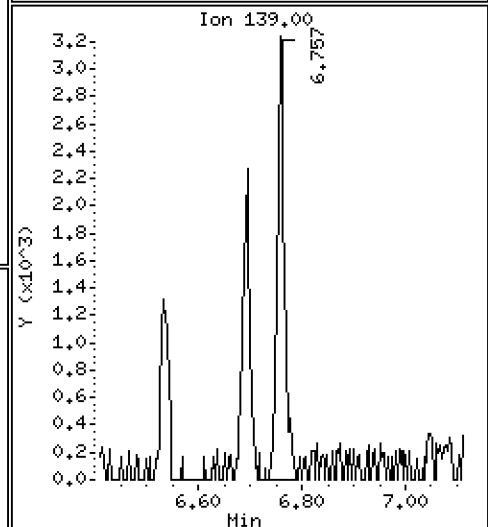
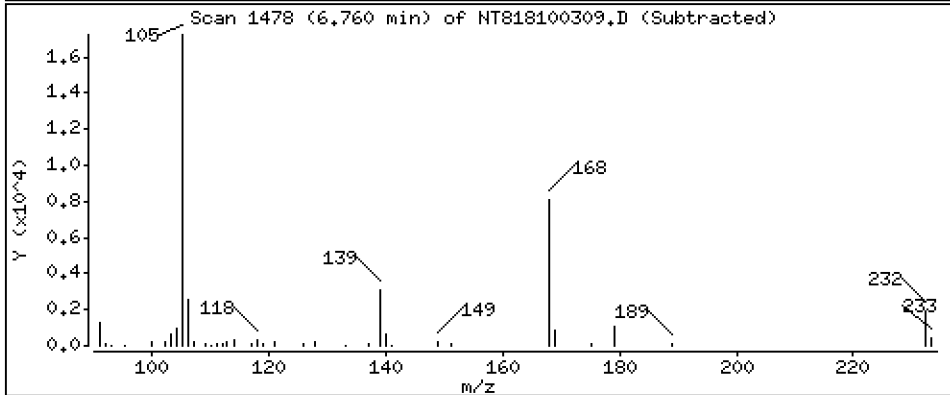
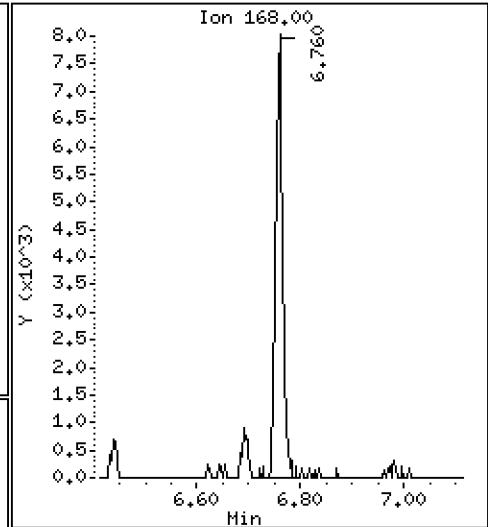
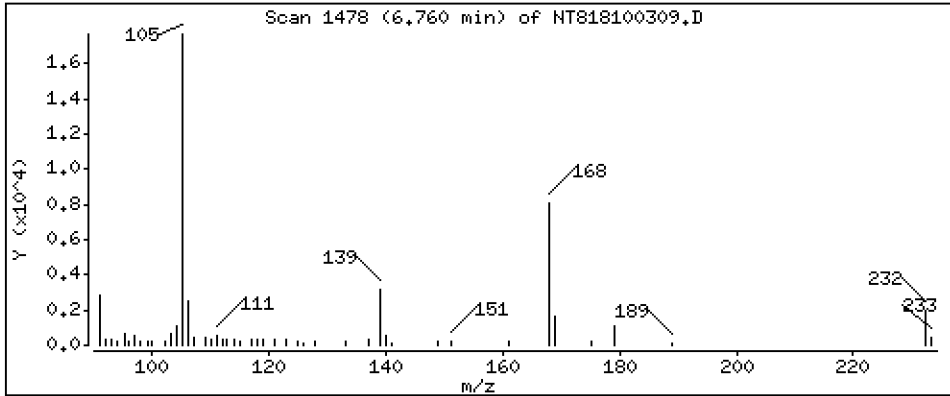
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

12 Dibenzofuran

Concentration: 0.09259 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

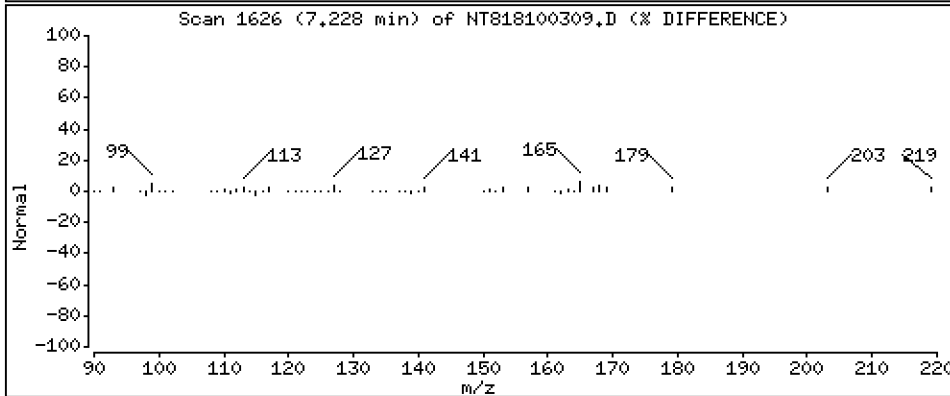
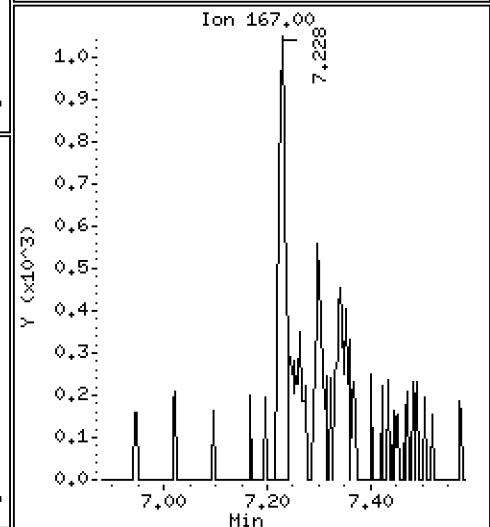
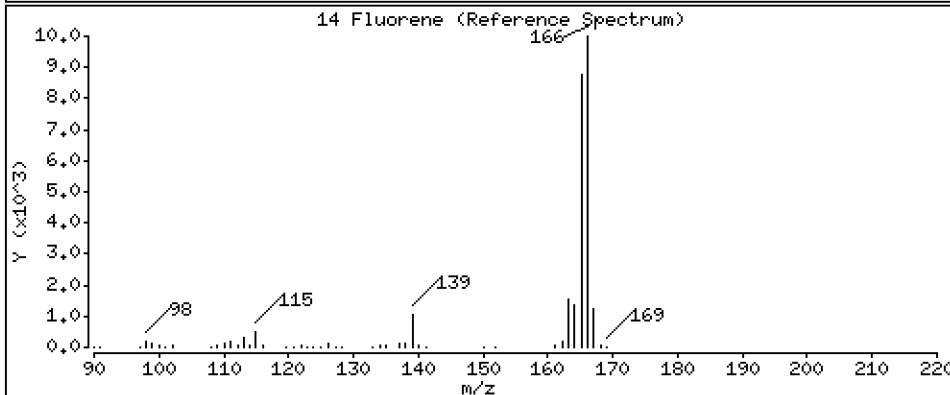
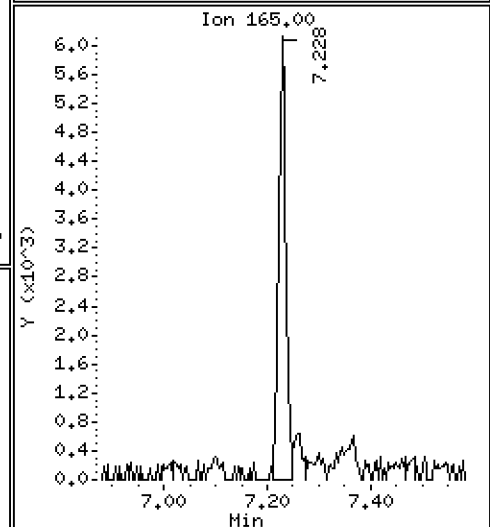
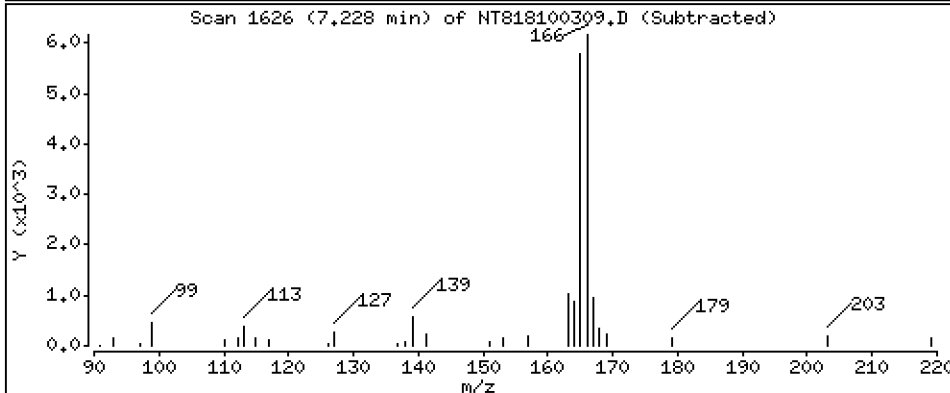
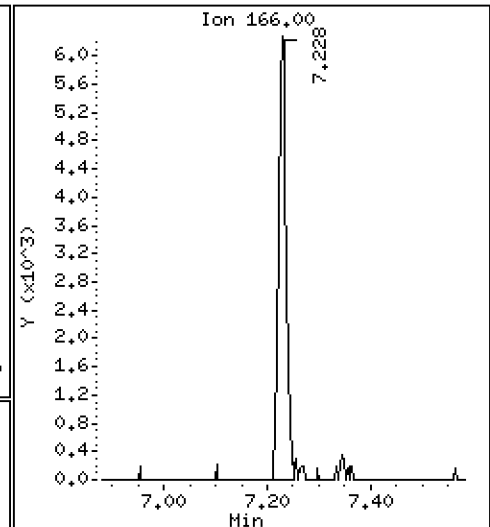
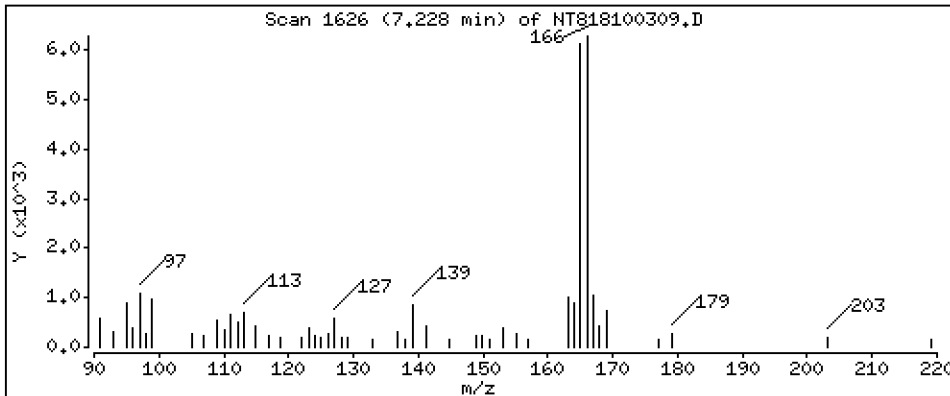
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

Concentration: 0.09383 ug/mL

14 Fluorene



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

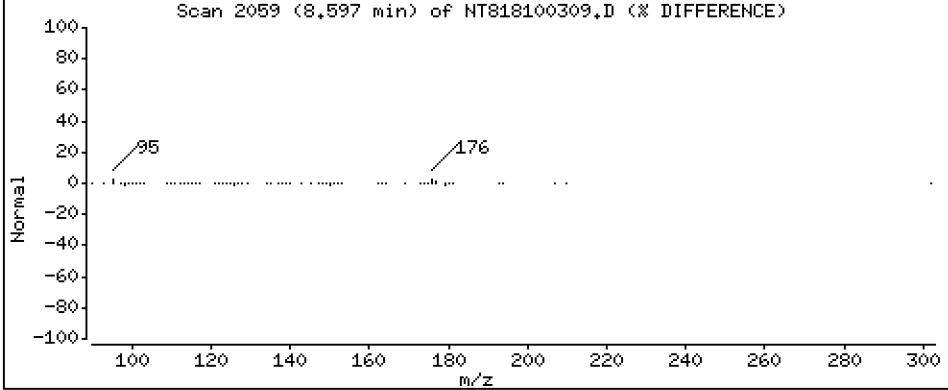
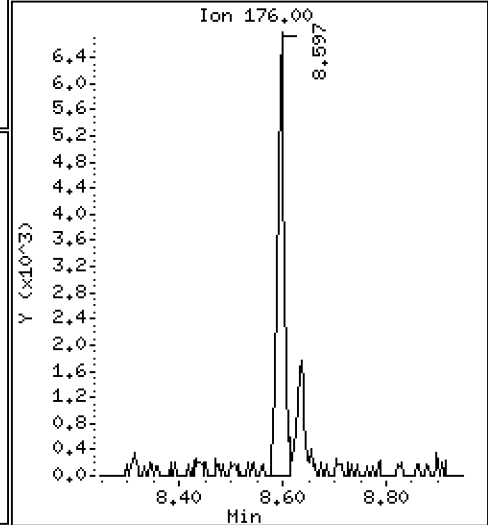
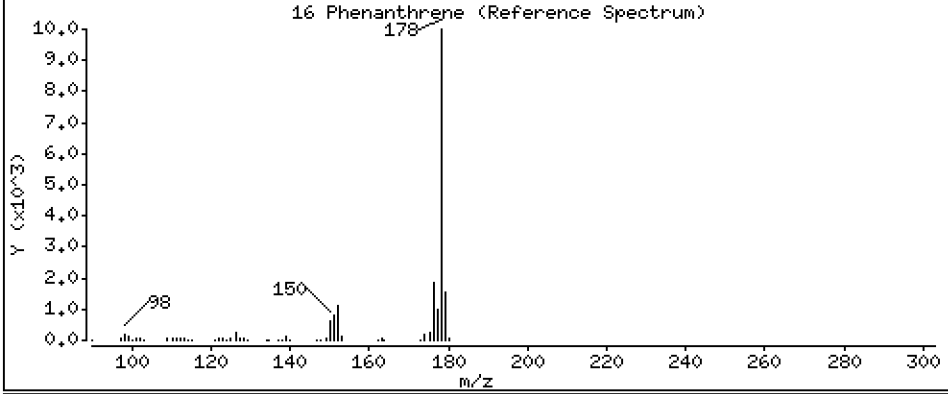
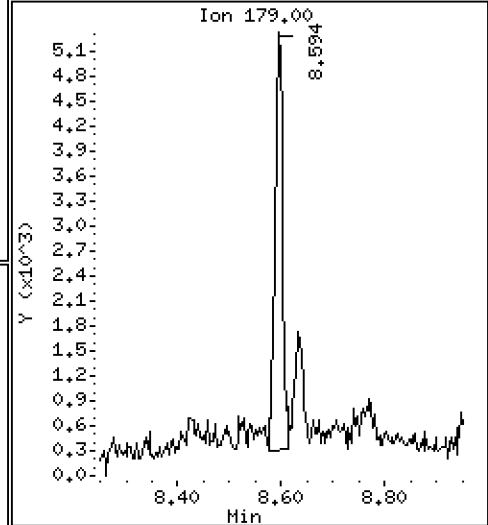
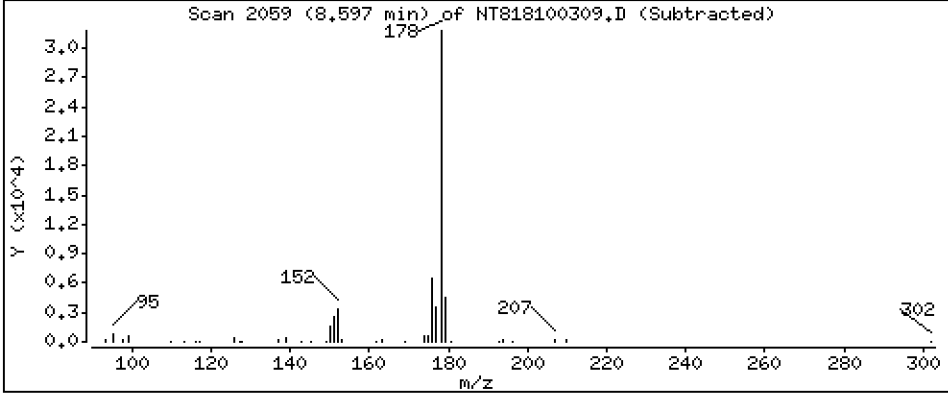
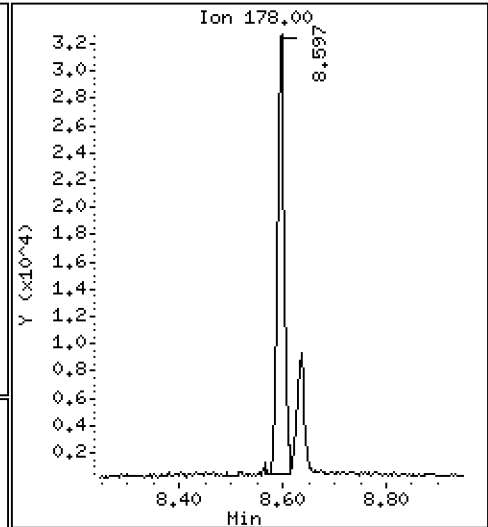
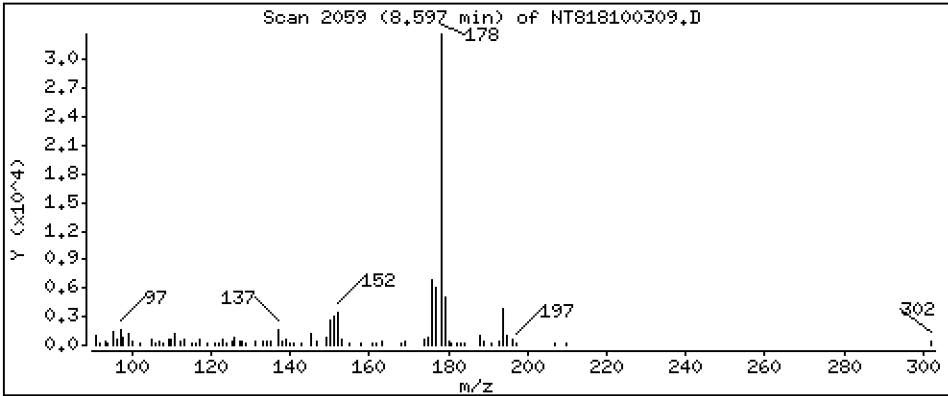
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

Concentration: 0.3424 ug/mL

16 Phenanthrene



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

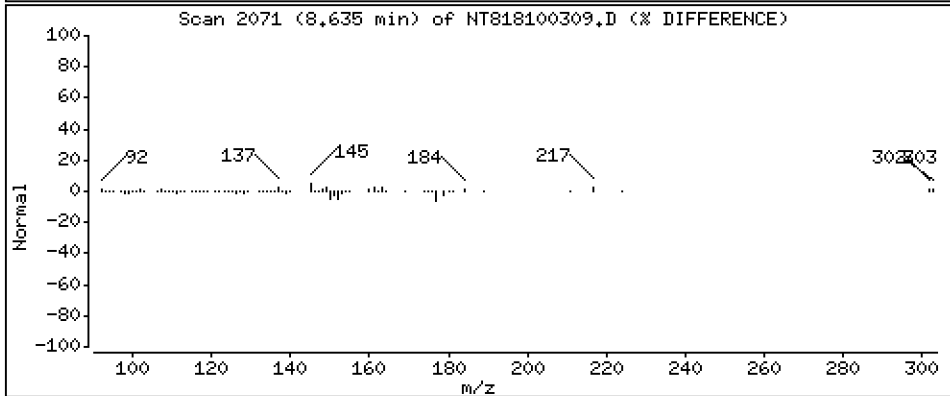
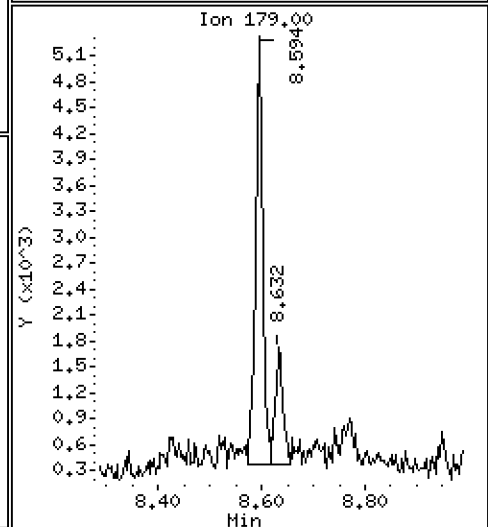
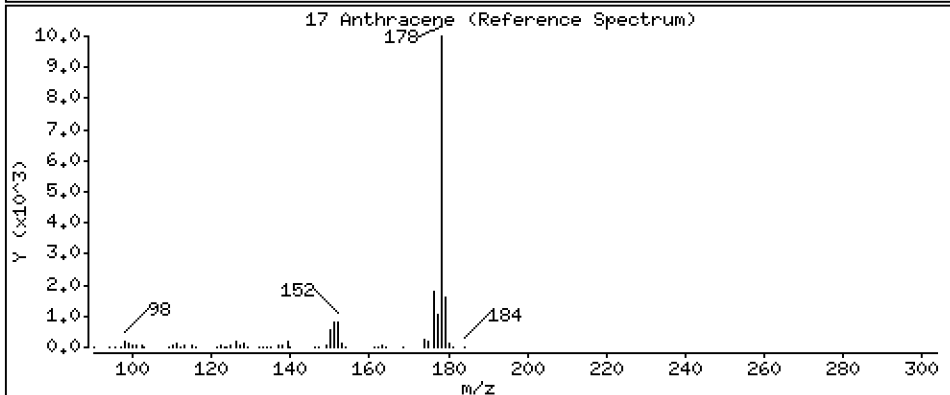
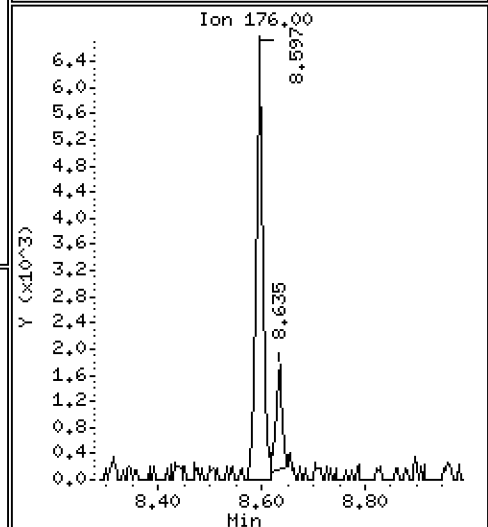
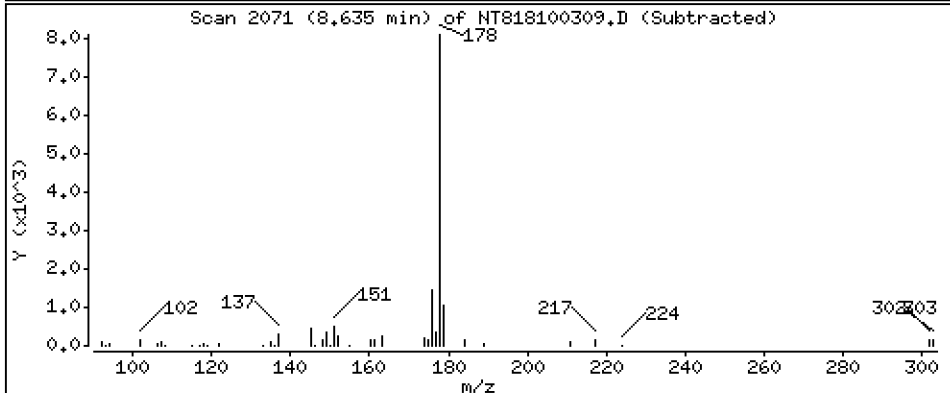
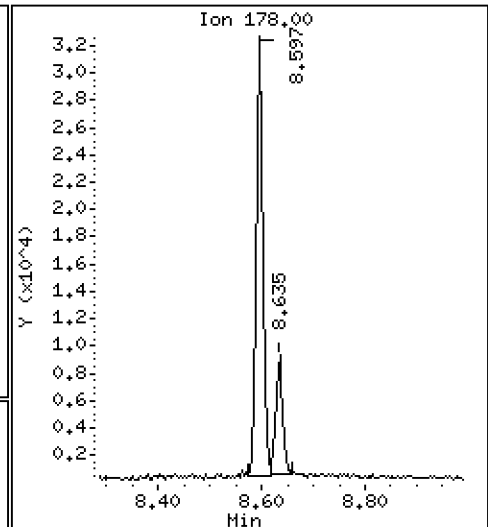
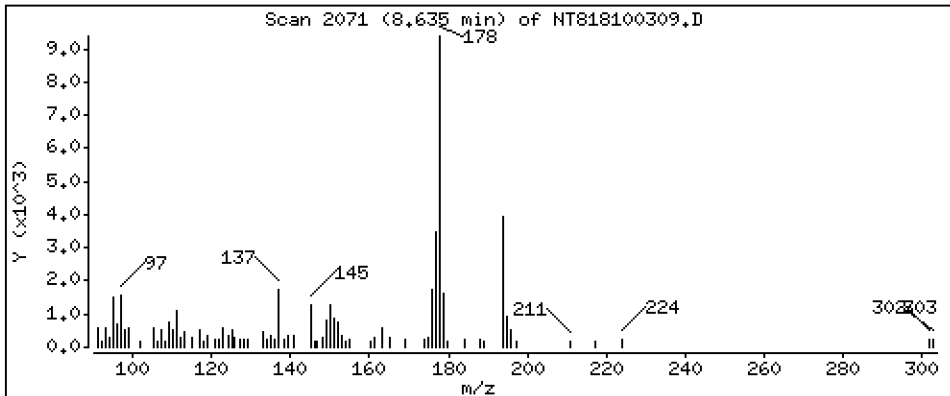
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

17 Anthracene

Concentration: 0.09725 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

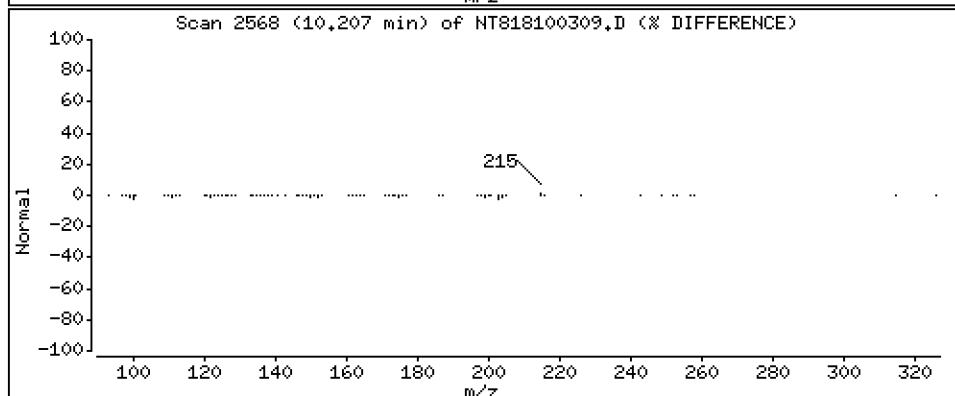
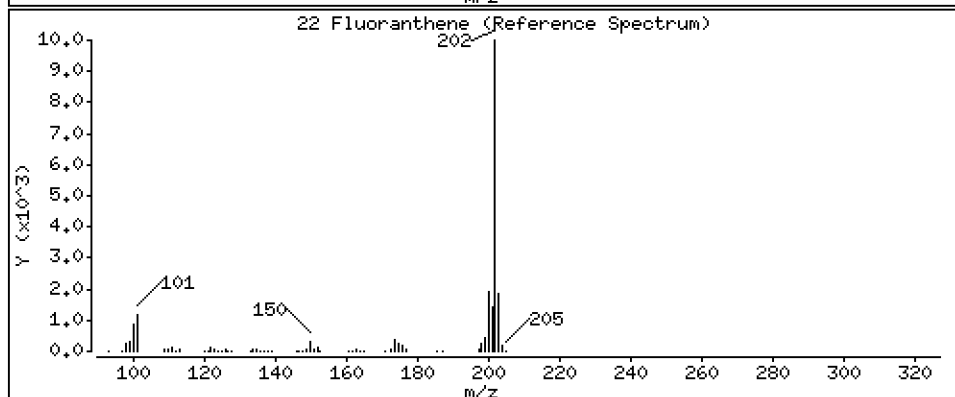
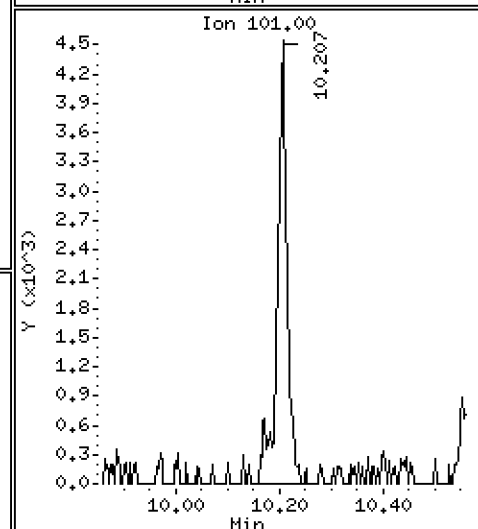
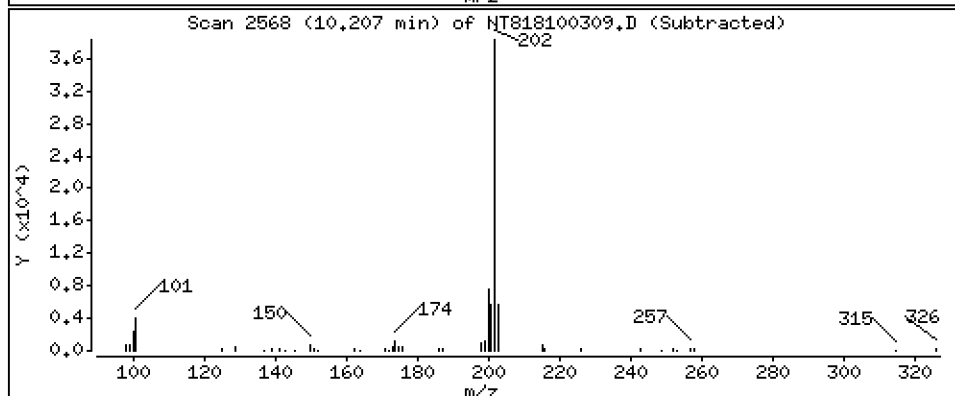
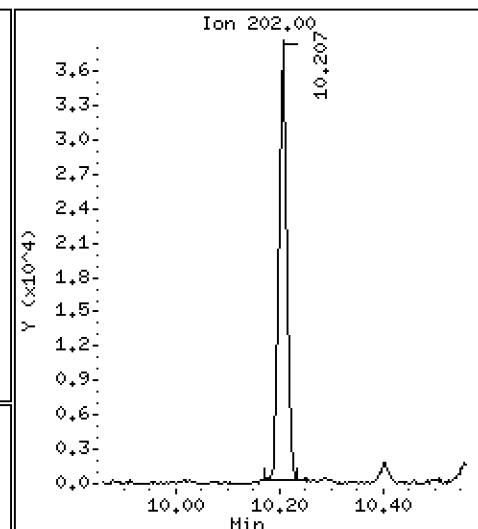
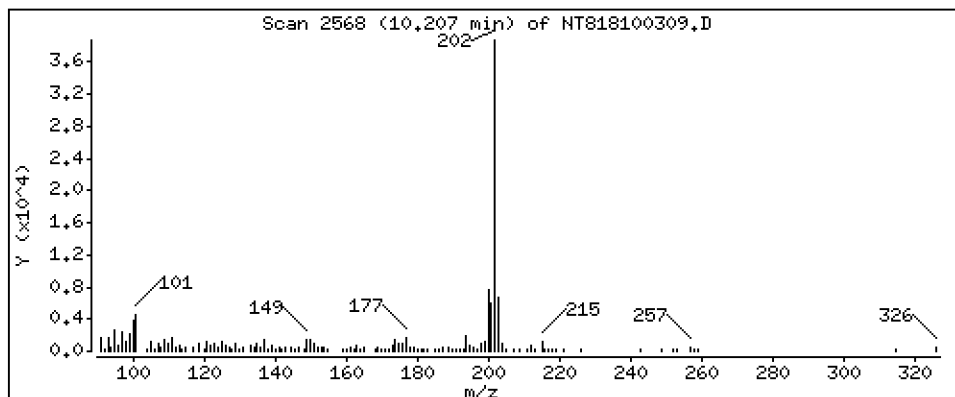
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 0,4066 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

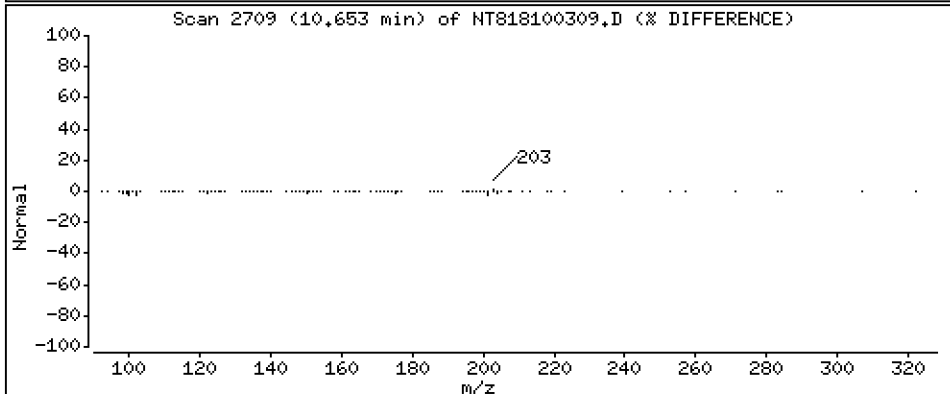
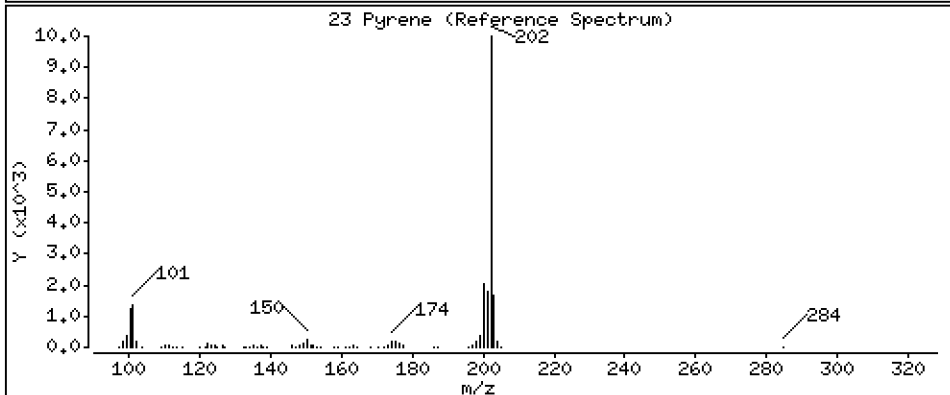
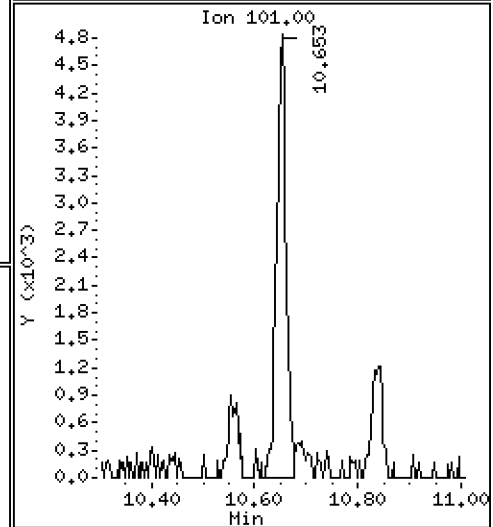
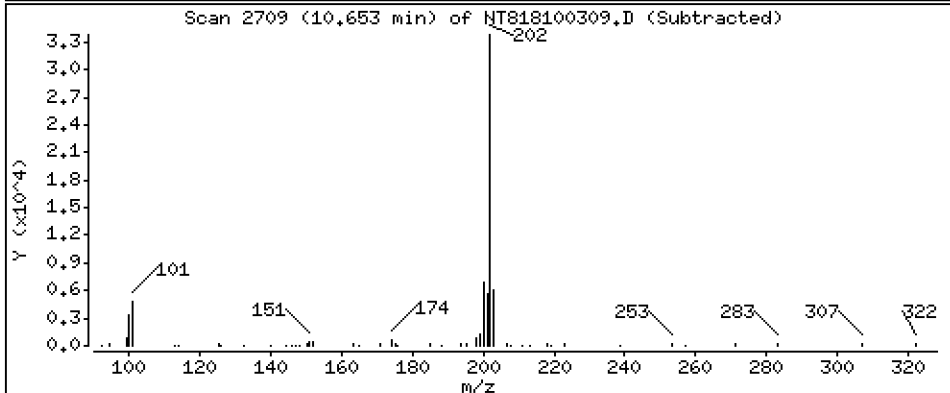
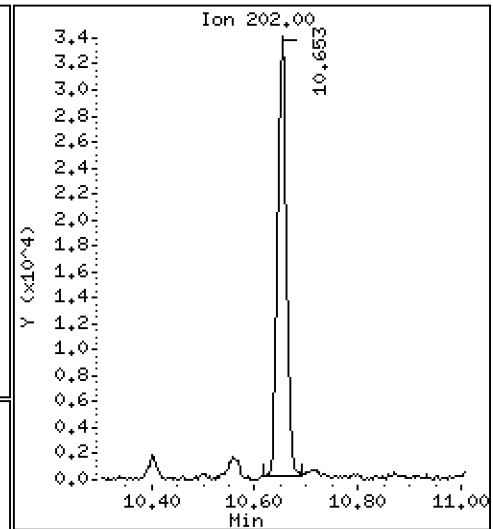
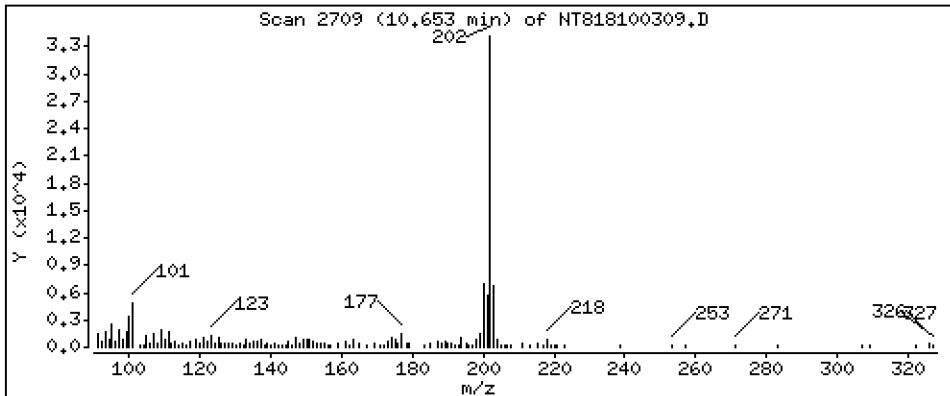
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 0,3825 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

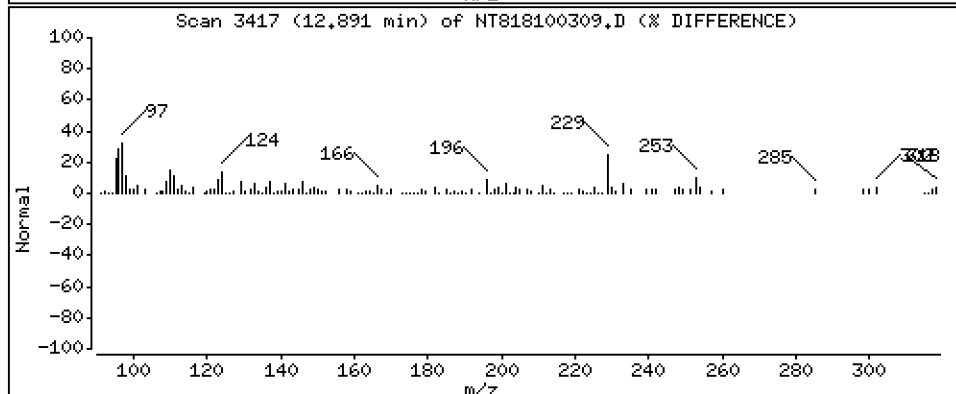
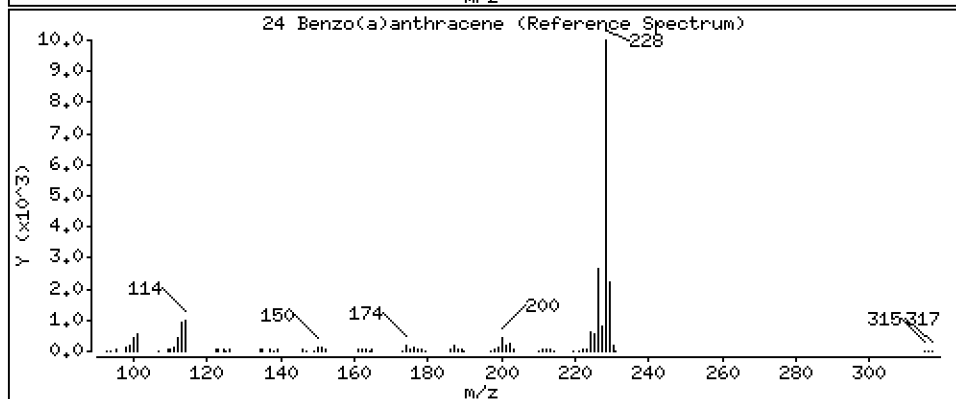
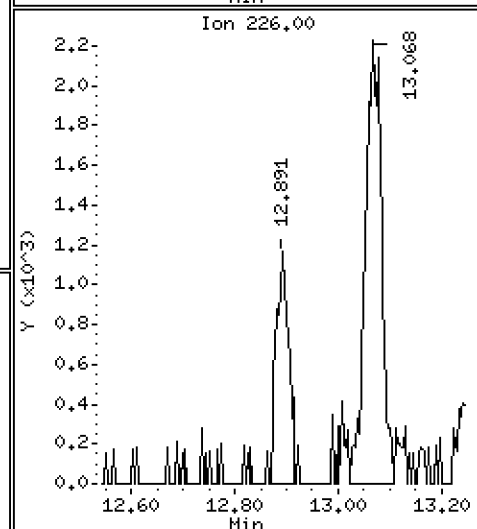
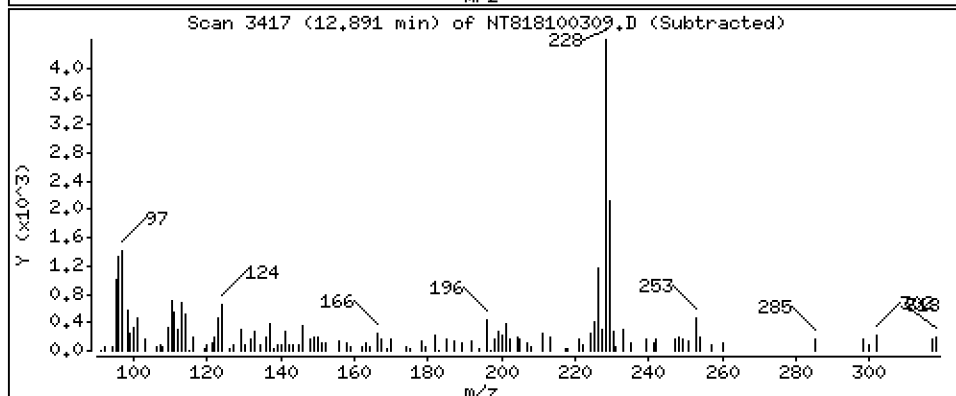
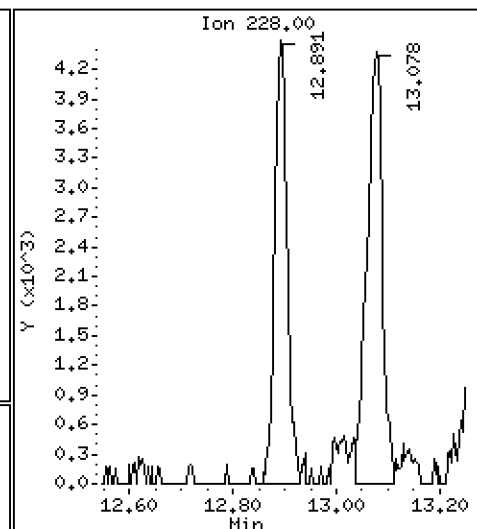
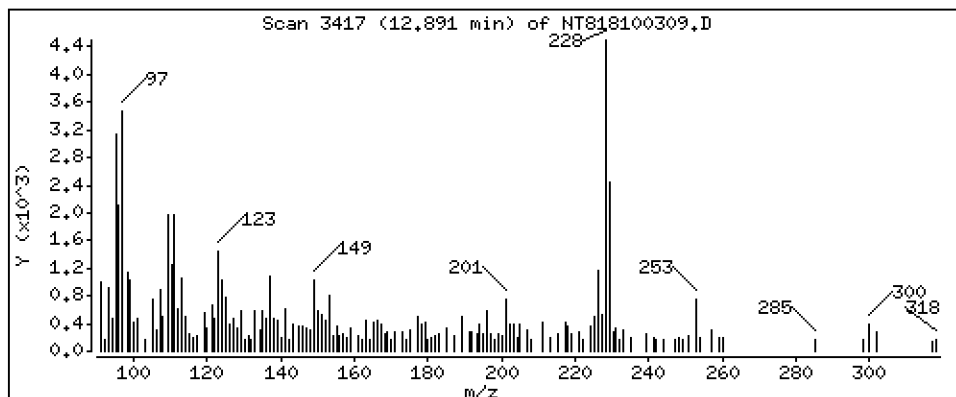
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 0,07383 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

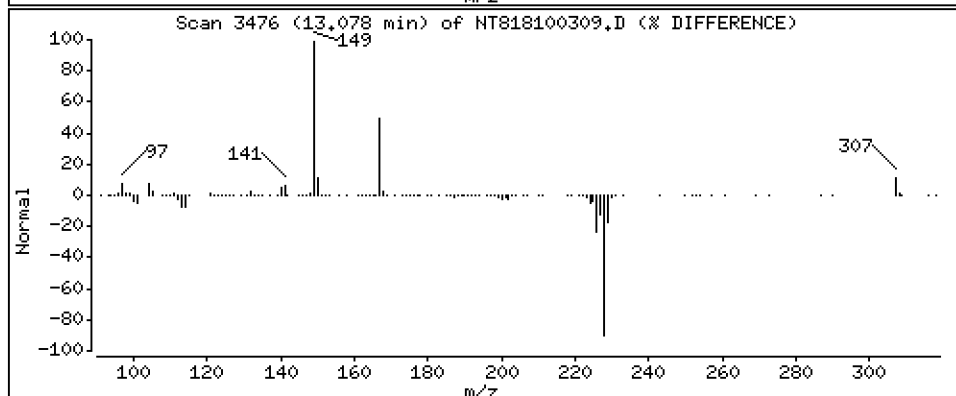
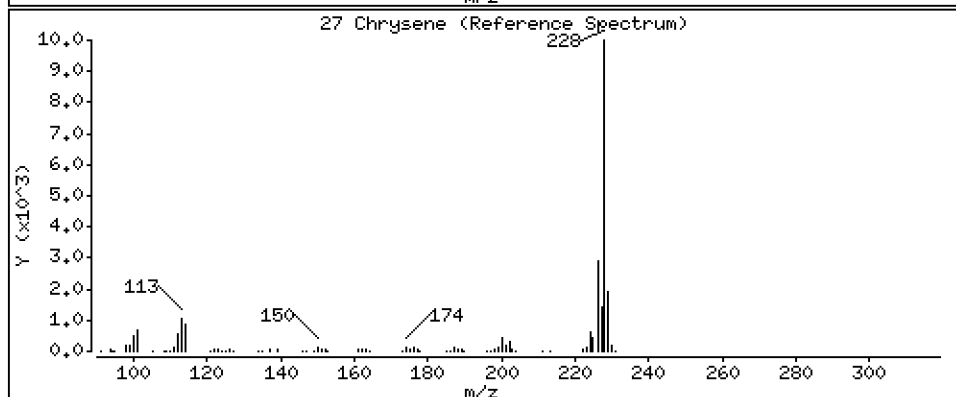
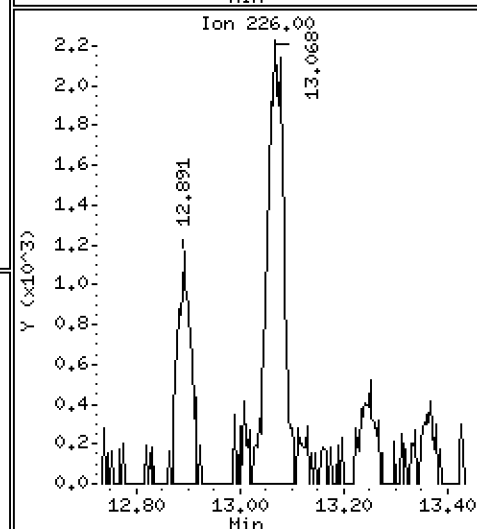
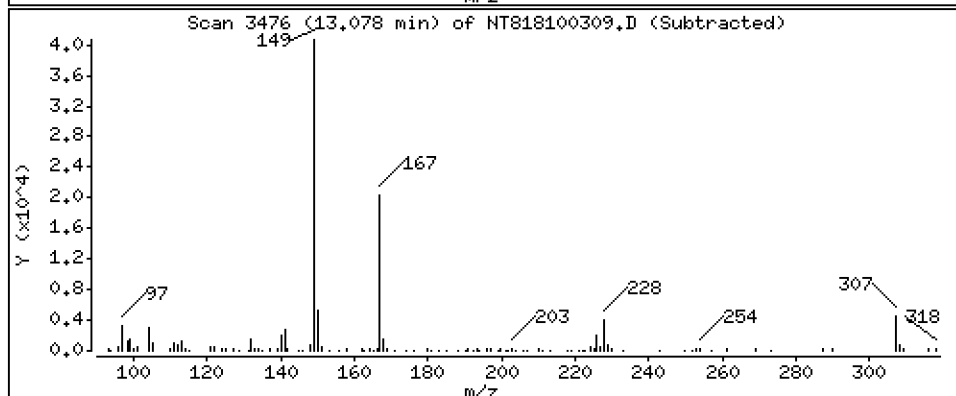
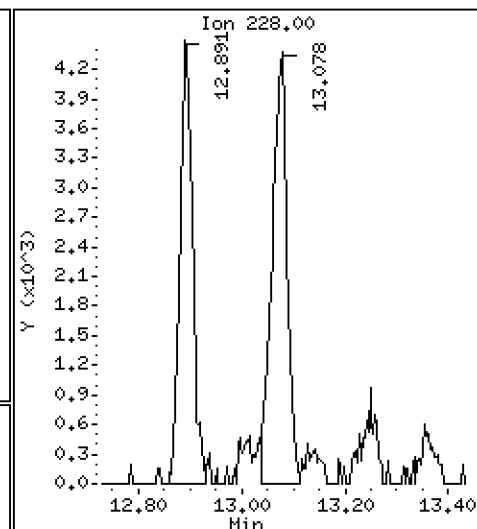
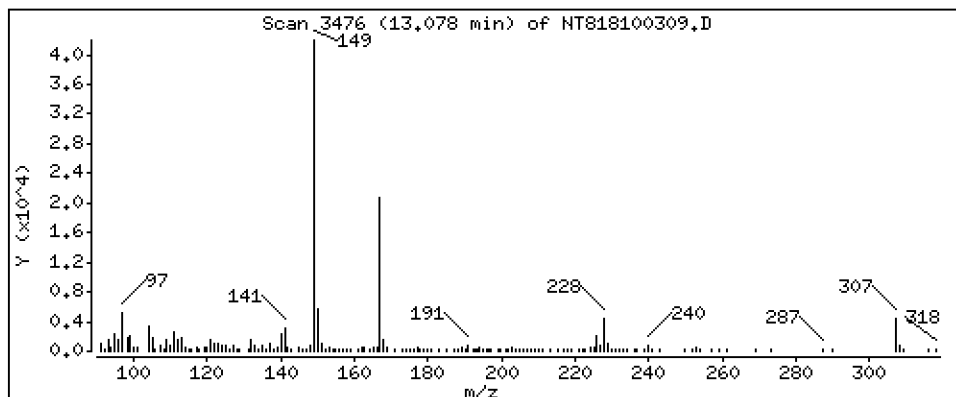
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 0,09408 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

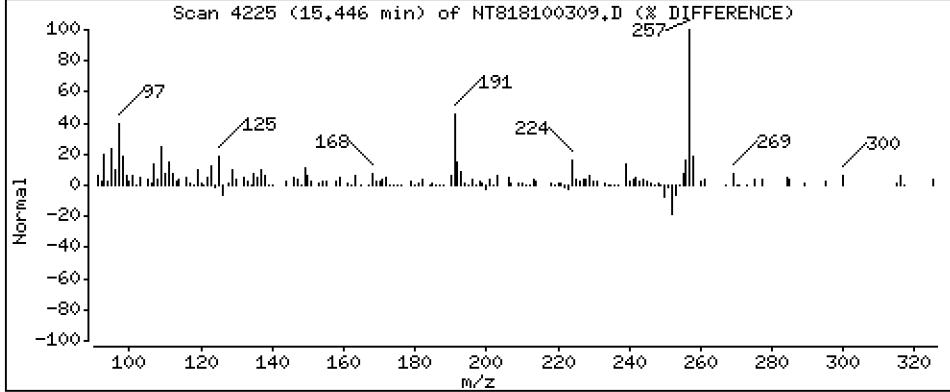
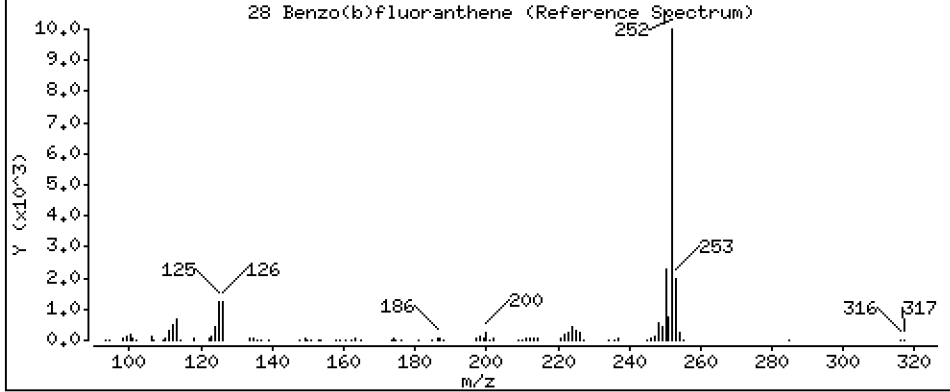
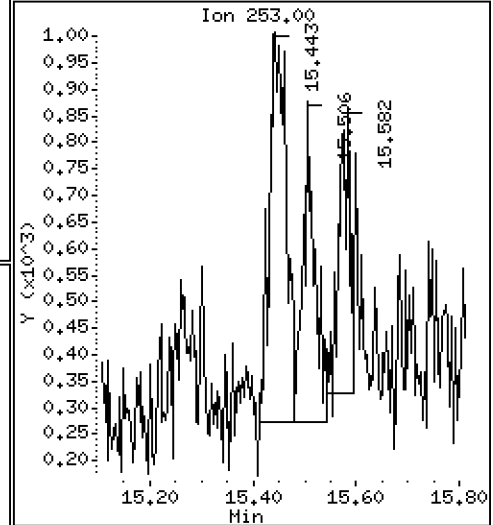
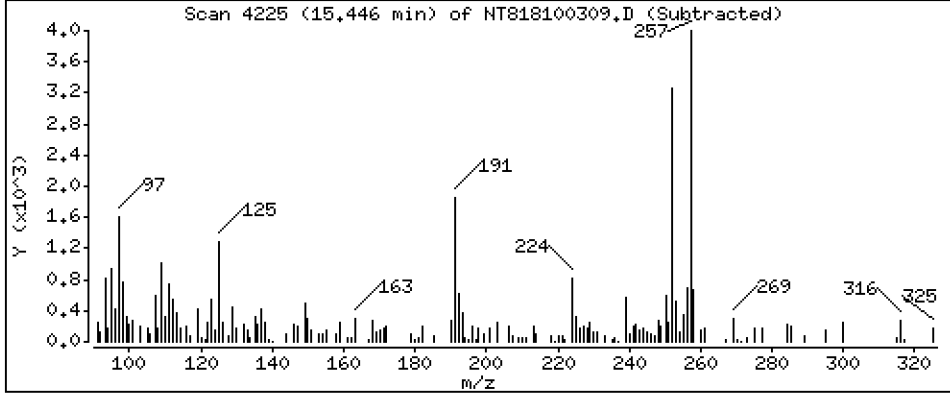
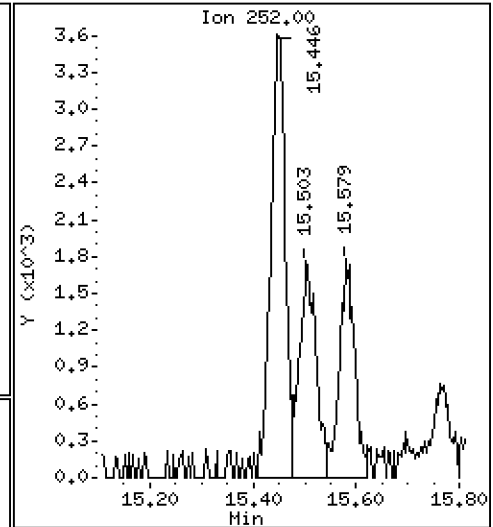
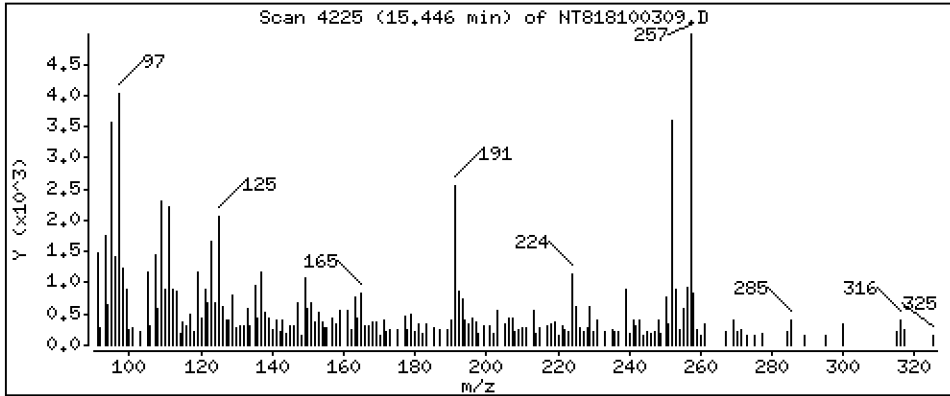
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 0,06580 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

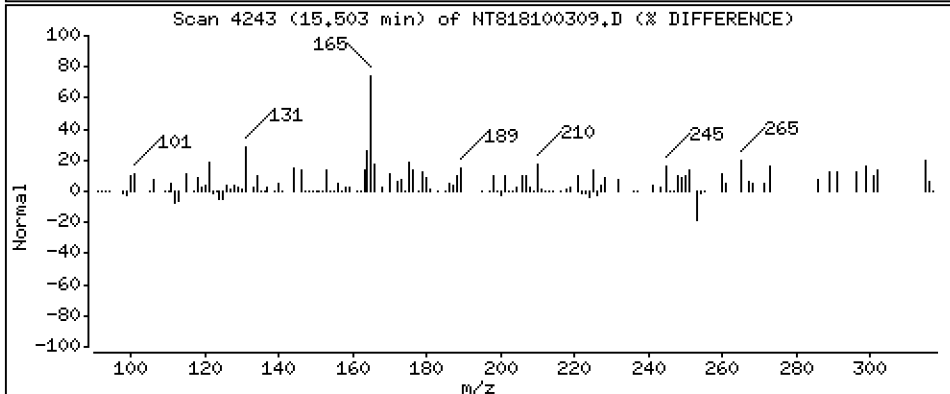
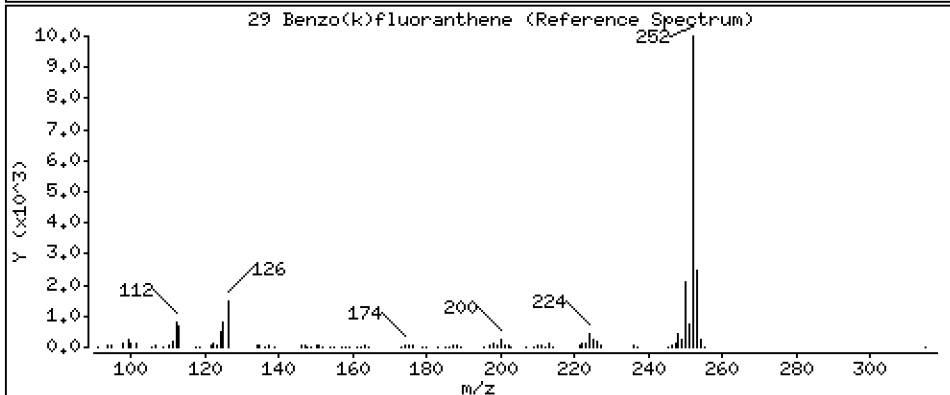
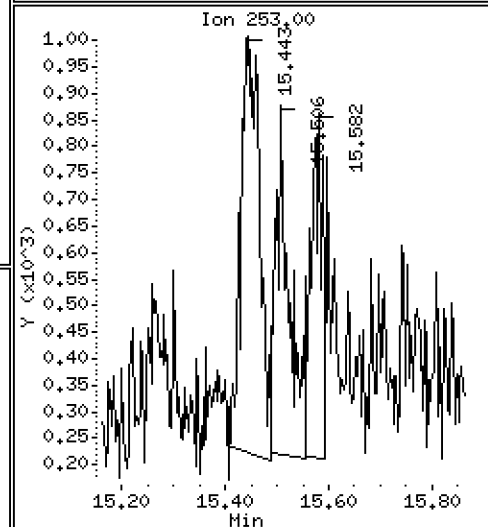
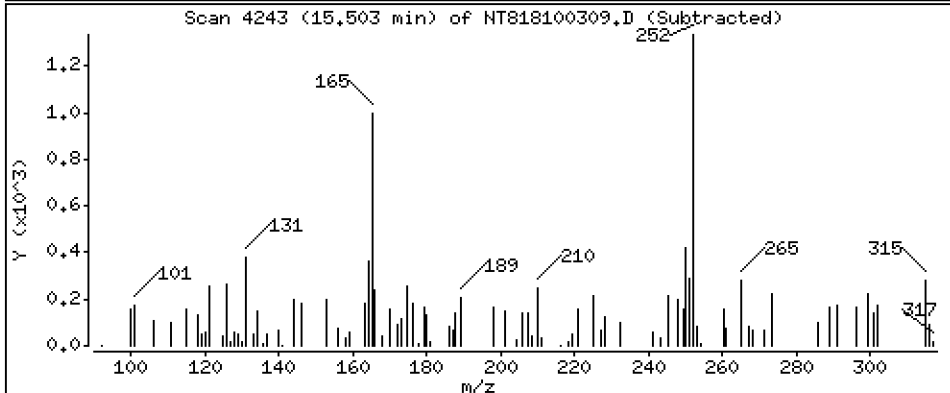
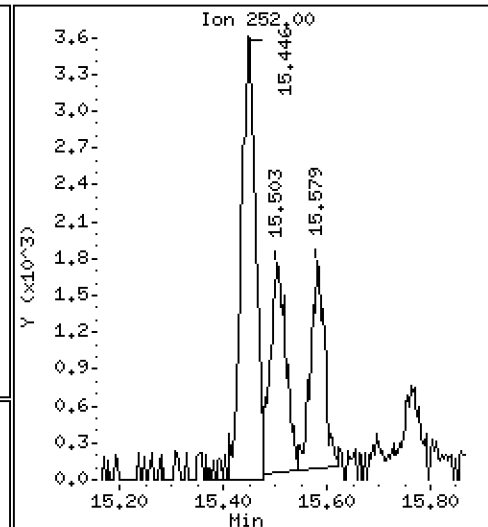
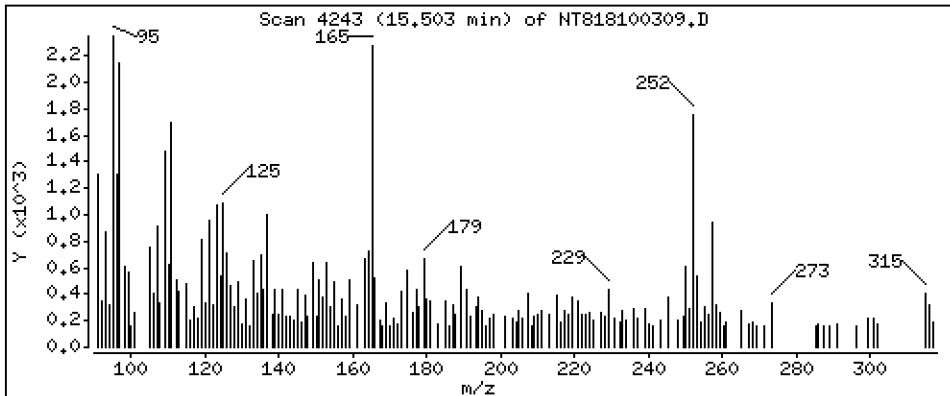
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 0,03478 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

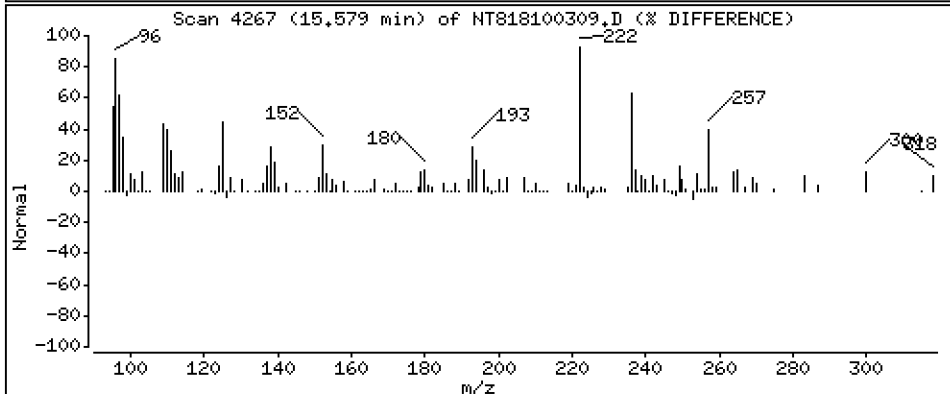
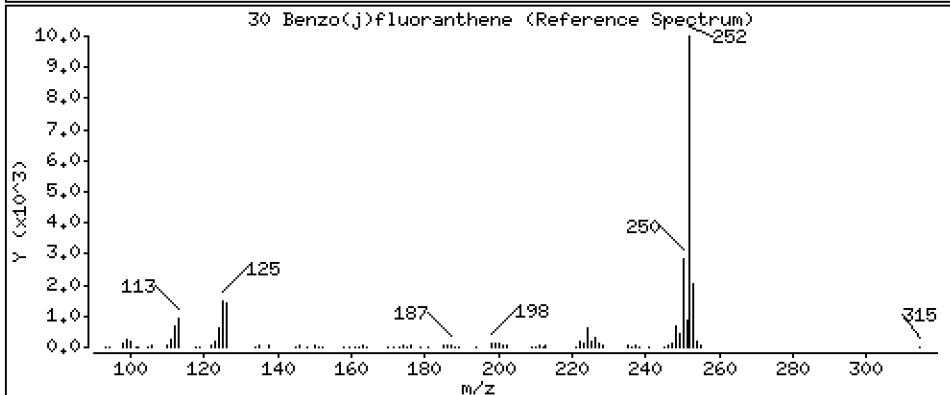
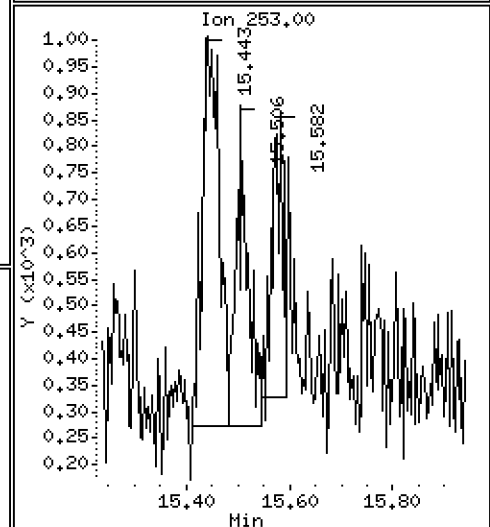
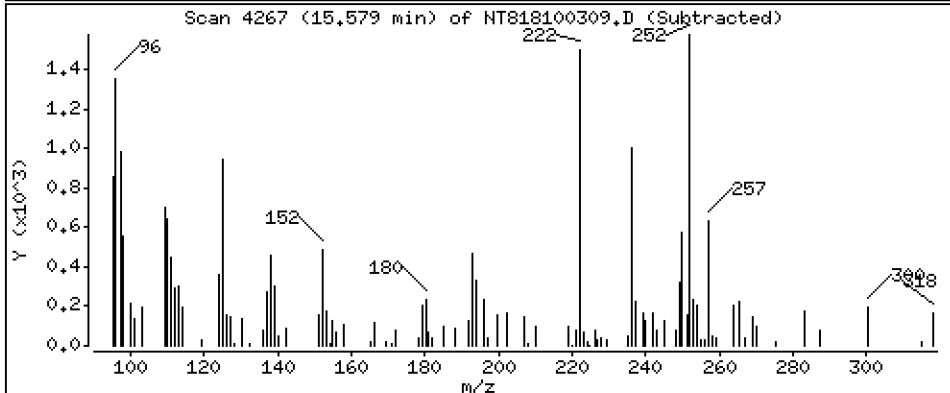
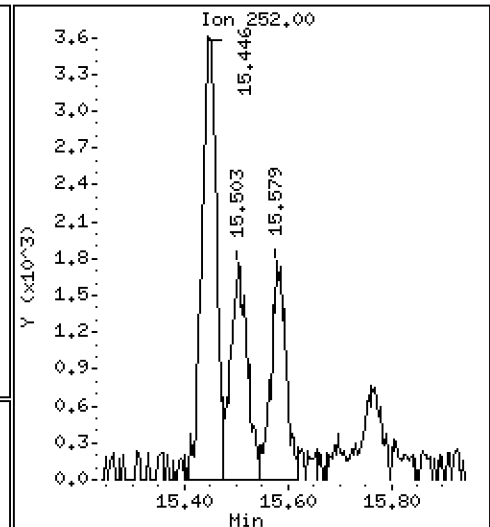
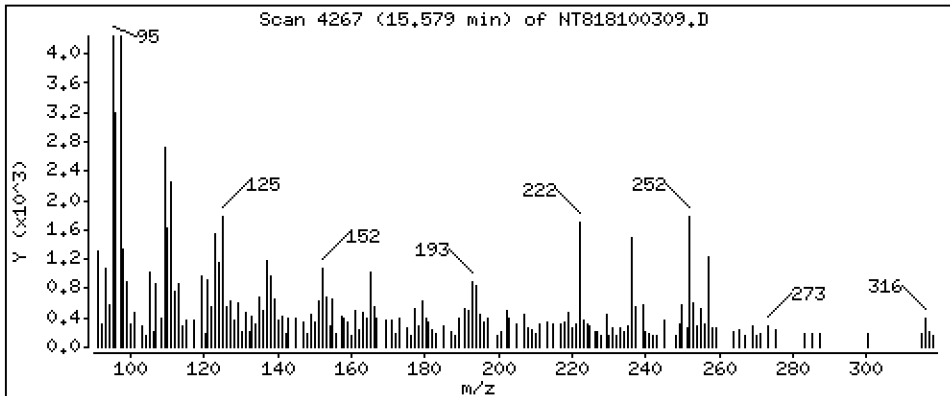
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 0,03629 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

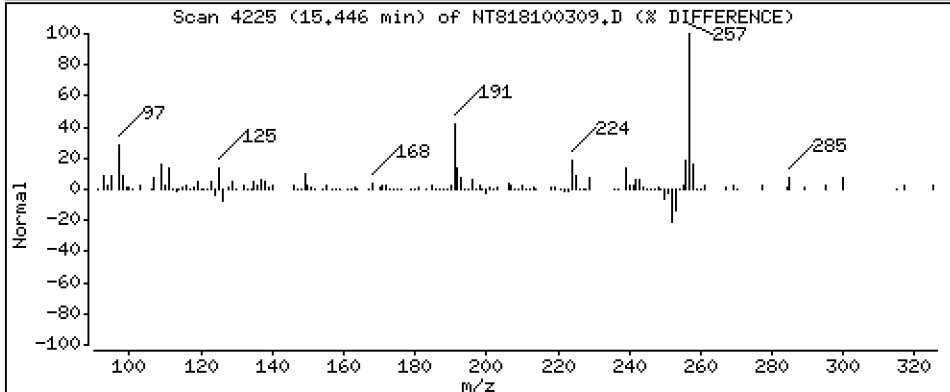
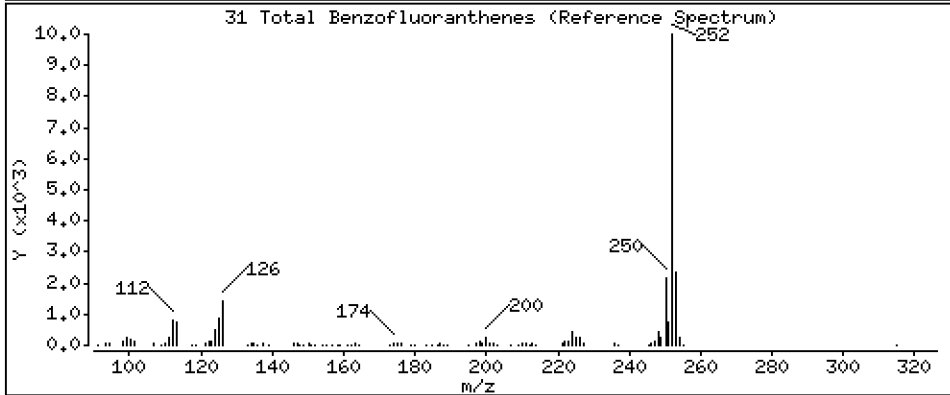
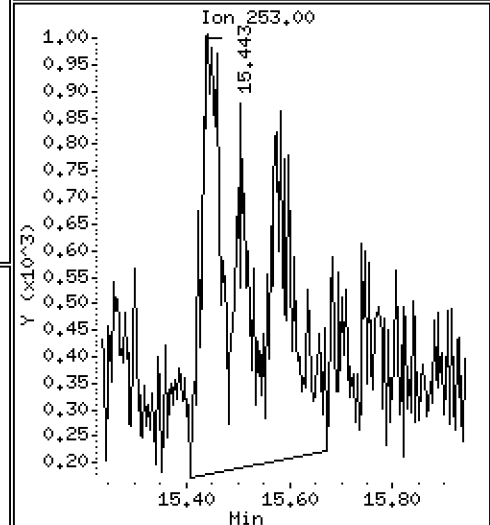
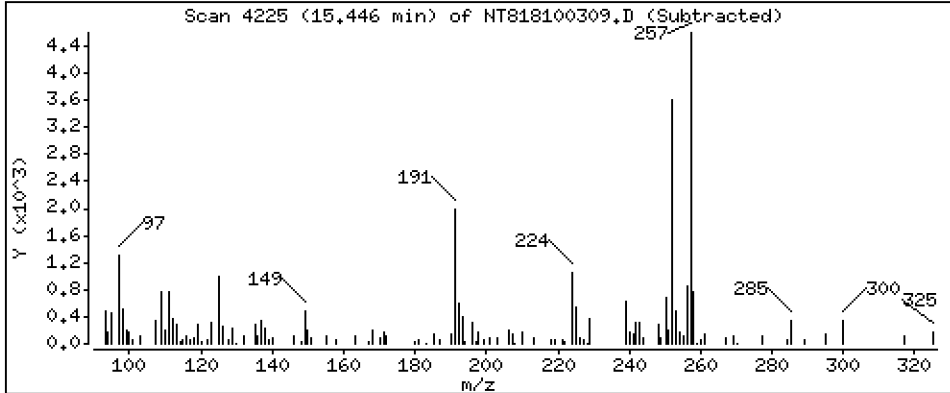
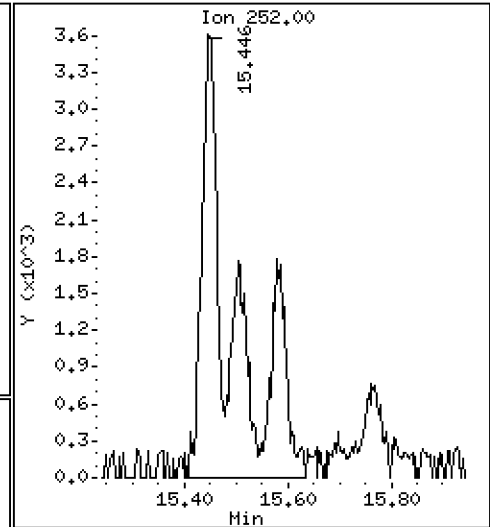
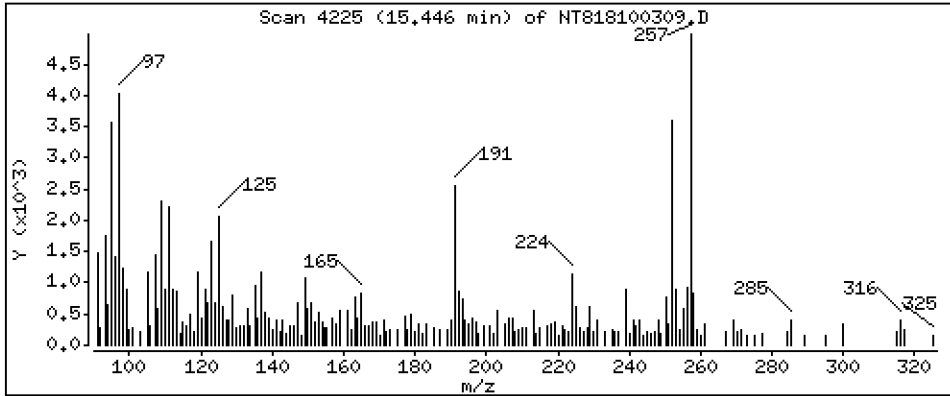
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 0,1417 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

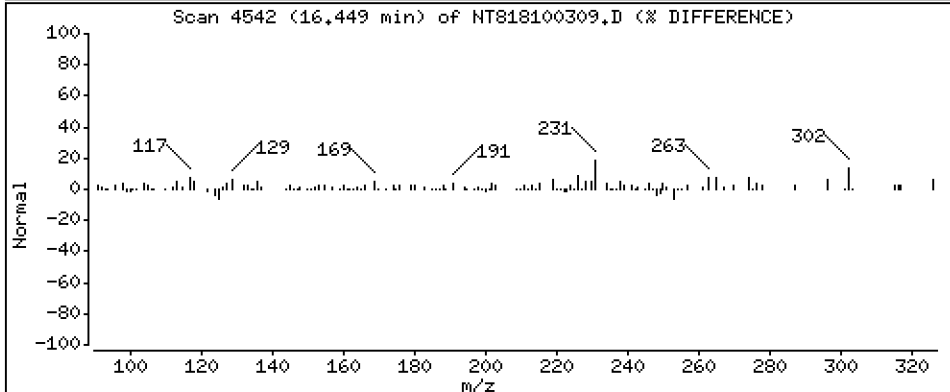
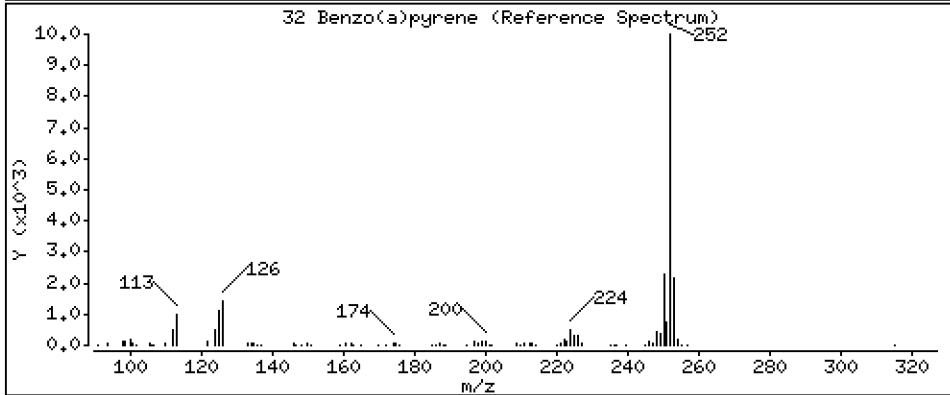
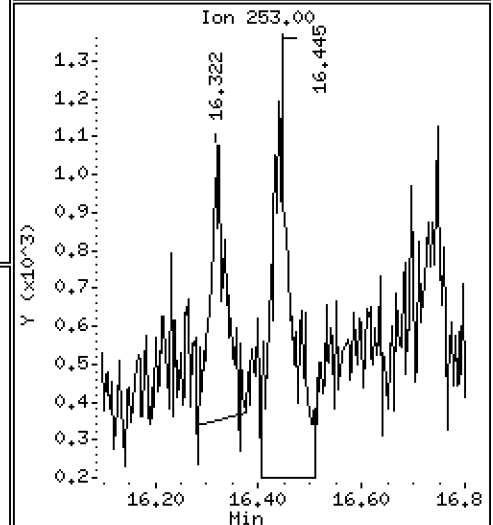
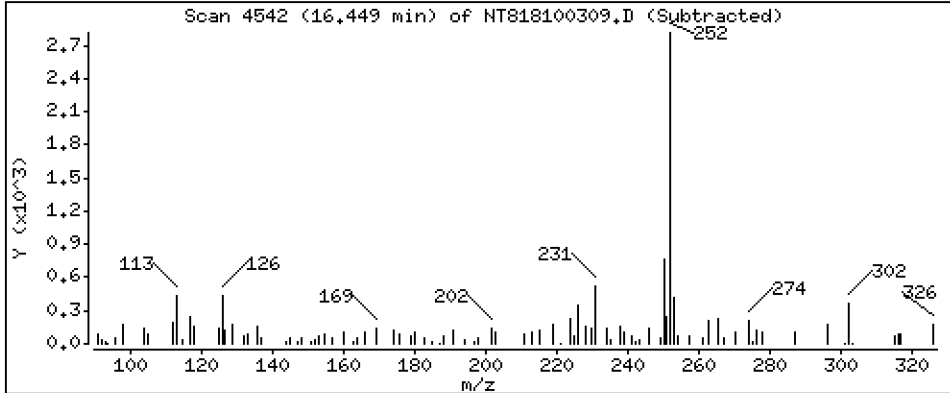
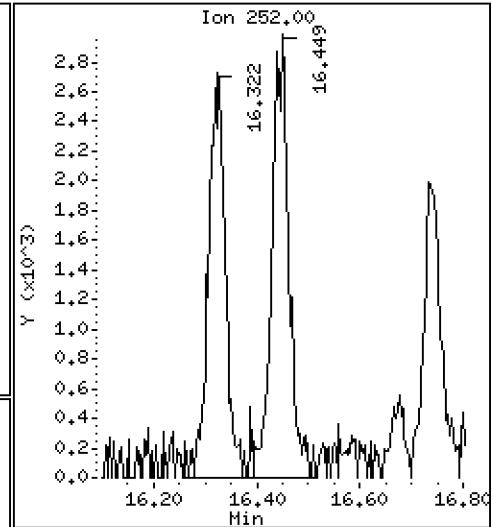
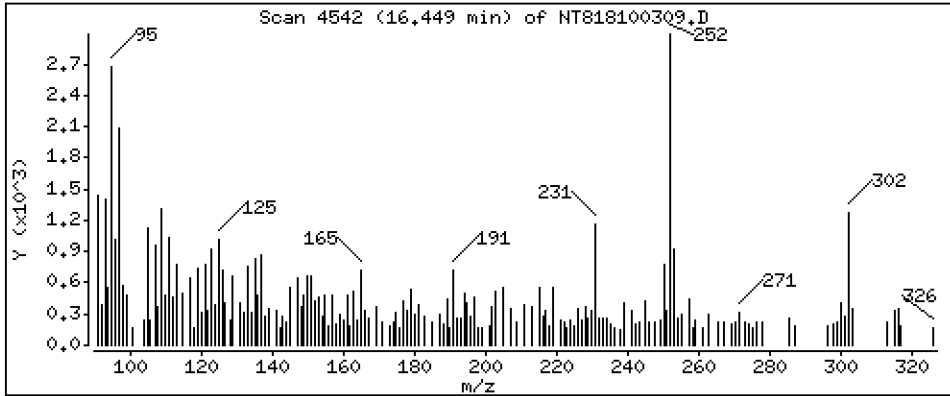
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

32 Benzo(a)pyrene

Concentration: 0.07163 ug/mL



Date : 03-OCT-2018 14:41

Client ID:

Instrument: nt8.i

Sample Info: 1810285-03

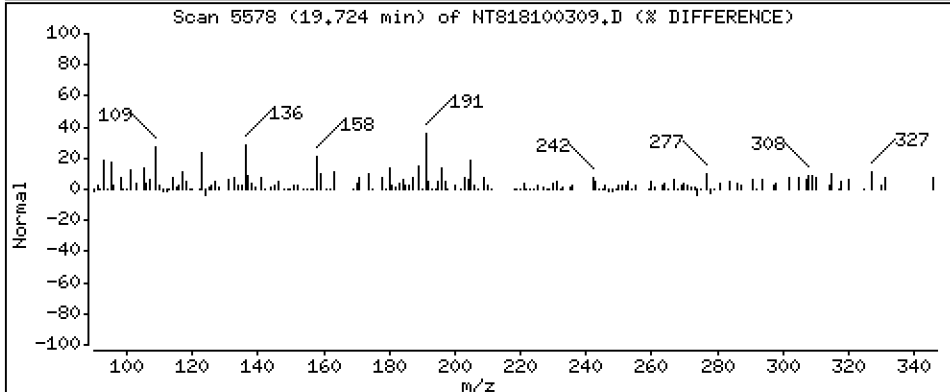
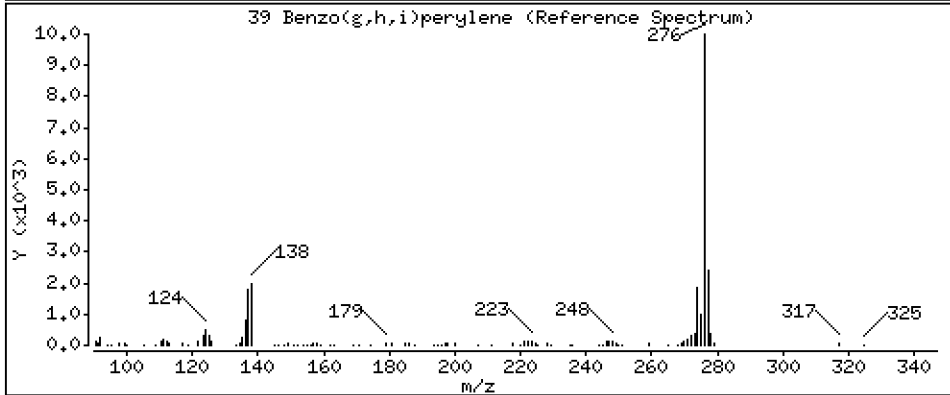
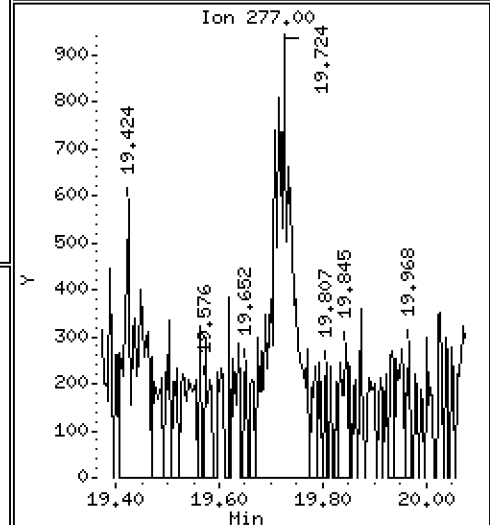
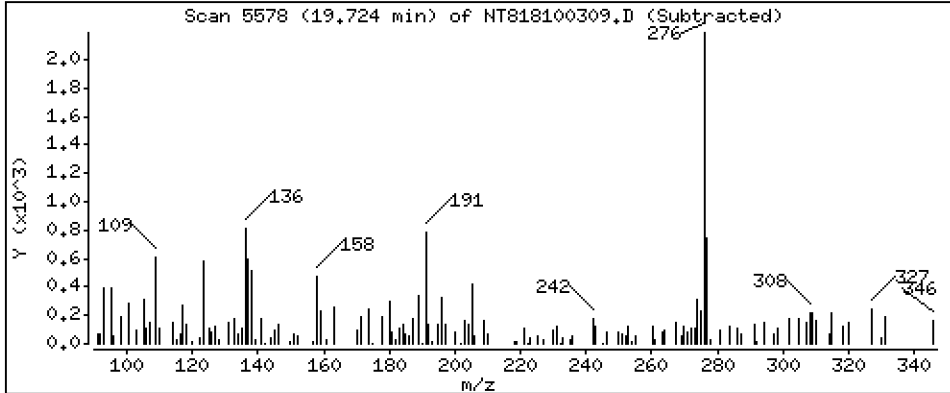
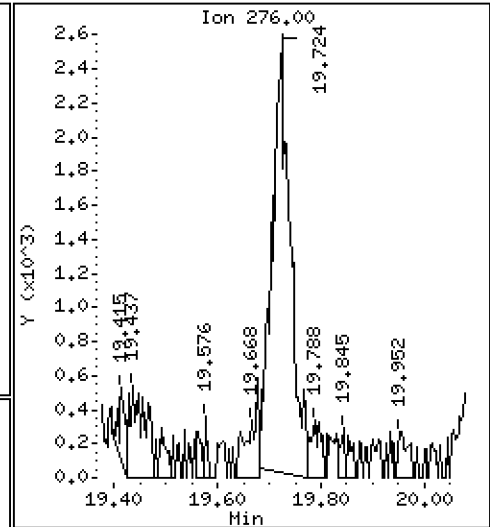
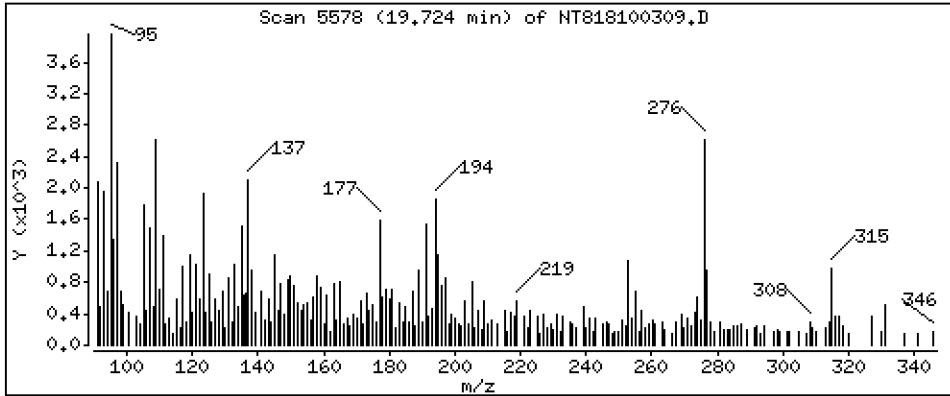
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 0,1262 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100309.D
 Lab Smp Id: 18I0285-03
 Inj Date : 03-OCT-2018 14:41
 Operator : JZ Inst ID: nt8.i
 Smp Info : 18I0285-03
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.309	4.319	(1.000)	163763	2.00000	
2 Naphthalene	128		4.338	4.347	(1.007)	34782	0.38970	0.3897
\$ 3 2-Methylnaphthalene-d10	152		5.033	5.040	(1.168)	101070	1.74514	1.745
4 2-Methylnaphthalene	141		5.078	5.087	(1.178)	4081	0.08154	0.08154
5 1-methylnaphthalene	141		5.277	5.280	(1.225)	2584	0.05015	0.05015
9 Acenaphthylene	152		6.450	6.453	(0.983)	6048	0.06735	0.06735
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	84669	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.007)	6000	0.09911	0.09911
12 Dibenzofuran	168		6.760	6.763	(1.030)	7765	0.09259	0.09259
14 Fluorene	166		7.228	7.231	(1.101)	6517	0.09383	0.09383
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	163290	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	30149	0.34236	0.3424
17 Anthracene	178		8.635	8.638	(1.008)	8385	0.09725	0.09725
22 Fluoranthene	202		10.206	10.209	(1.192)	41628	0.40657	0.4066
\$ 21 Fluoranthene-d10	212		10.175	10.178	(1.188)	228154	2.21243	2.212
23 Pyrene	202		10.652	10.655	(0.819)	40529	0.38246	0.3825
24 Benzo(a)anthracene	228		12.891	12.897	(0.991)	7565	0.07383	0.07383
* 25 Chrysene-d12	240		13.011	13.014	(1.000)	178096	2.00000	
27 Chrysene	228		13.077	13.080	(1.005)	9111	0.09408	0.09408
28 Benzo(b)fluoranthene	252		15.446	15.458	(0.926)	7029	0.06580	0.06580
29 Benzo(k)fluoranthene	252		15.503	15.515	(0.930)	3679	0.03478	0.03478
30 Benzo(j)fluoranthene	252		15.579	15.591	(0.934)	3638	0.03629	0.03629
31 Total Benzofluoranthenes	252		15.446	15.591	(0.926)	14697	0.14175	0.1417 (M)
32 Benzo(a)pyrene	252		16.448	16.451	(0.987)	6903	0.07163	0.07163
* 33 Perylene-d12	264		16.673	16.672	(1.000)	171309	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		Compound Not Detected.					
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.858	18.861	(1.131)	216202	2.81331	2.813
38 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
39 Benzo(g,h,i)perylene	276		19.724	19.727	(1.183)	6447	0.12617	0.1262
35 Perylene	252		Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100309.D Calibration Time: 11:20
 Lab Smp Id: 18I0285-03
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	163763	24.18
10 Acenaphthene-d10	72272	36136	144544	84669	17.15
15 Phenanthrene-d10	156058	78029	312116	163290	4.63
25 Chrysene-d12	174389	87195	348778	178096	2.13
33 Perylene-d12	150701	75351	301402	171309	13.67

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.22
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.03
25 Chrysene-d12	13.01	12.51	13.51	13.01	-0.02
33 Perylene-d12	16.67	16.17	17.17	16.67	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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100309.D

Lab ID: 18I0285-03
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 14:41

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.926	0.935	-0.0087	Total Benzofluoranthenes

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

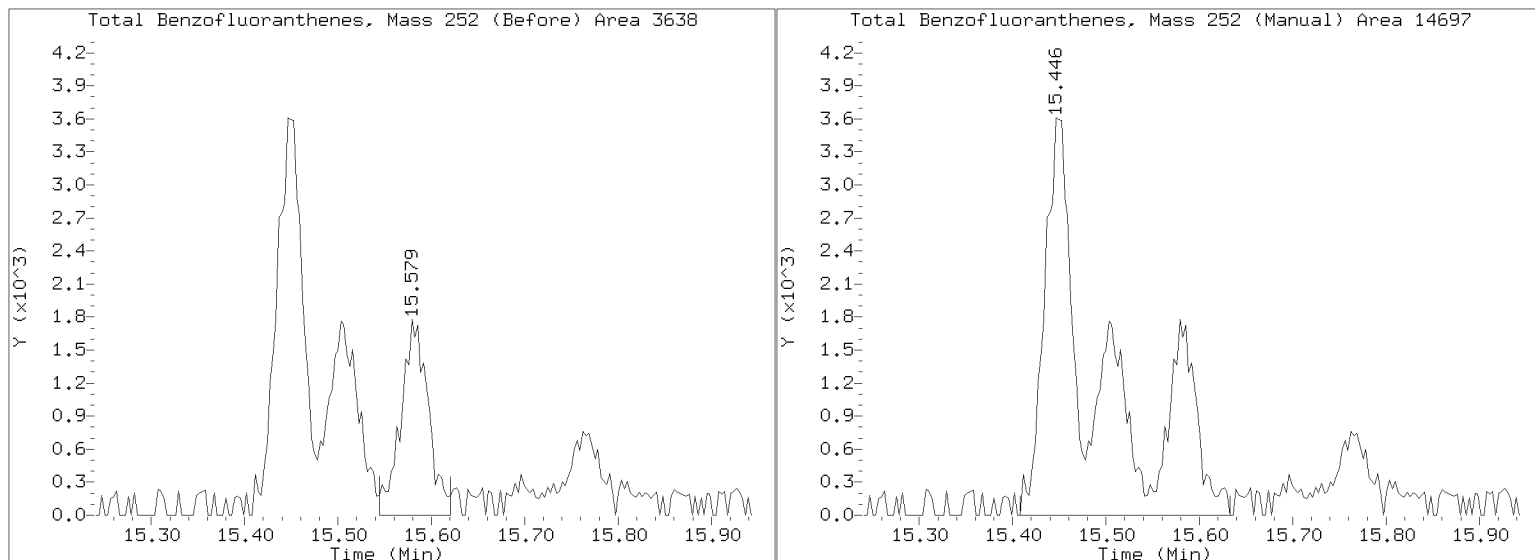
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100309.D

Injection Date: 03-OCT-2018 14:41

Lab ID:18I0285-03 Client ID:

Report Date: 10/03/2018 15:12





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270D-SIM
Polynuclear Aromatic Hydrocarbons

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Sediment

Laboratory ID: 1810285-04

SDG: 1810285

Sampled: 09/18/18 11:00

Prepared: 09/26/18 15:45

File ID: NT818100312.D

% Solids: 76.51

Preparation: EPA 3546 (Microwave)

Analyzed: 10/03/18 16:02

Batch: BGI0708

Sequence: SGJ0048

Initial/Final: 13.1 g Wet / 0.5 mL

Instrument: NT8

Column: RXI-17Sil ms

Calibration: BH00016

Cleanups: Silica Gel, Sulfur

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	159		1.27	4.99
91-57-6	2-Methylnaphthalene	1	23.3		1.10	4.99
90-12-0	1-Methylnaphthalene	1	17.4		0.40	4.99
208-96-8	Acenaphthylene	1	32.8		1.08	4.99
83-32-9	Acenaphthene	1	41.9		0.57	4.99
86-73-7	Fluorene	1	36.2		0.63	4.99
85-01-8	Phenanthrene	1	159		0.72	4.99
120-12-7	Anthracene	1	54.4		0.87	4.99
206-44-0	Fluoranthene	1	428		0.47	4.99
129-00-0	Pyrene	1	332		0.62	4.99
56-55-3	Benzo(a)anthracene	1	70.9		0.82	4.99
218-01-9	Chrysene	1	155		1.05	4.99
205-99-2	Benzo(b)fluoranthene	1	91.0		1.37	4.99
207-08-9	Benzo(k)fluoranthene	1	44.4		0.76	4.99
205-82-3	Benzo(j)fluoranthene	1	43.5		0.68	4.99
50-32-8	Benzo(a)pyrene	1	57.7		0.61	4.99
193-39-5	Indeno(1,2,3-cd)pyrene	1	29.1		1.05	4.99
53-70-3	Dibenzo(a,h)anthracene	1	7.58		0.89	4.99
191-24-2	Benzo(g,h,i)perylene	1	39.9		1.06	4.99
	Benzo(a)fluoranthenes, Total	1	178		3.00	9.98

SURROGATES	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	149.65	80.0	53.5	32 - 120	
Dibenzo[a,h]anthracene-d14	149.65	110	73.2	21 - 133	
Fluoranthene-d10	149.65	95.9	64.1	36 - 134	

Data File: \\target\share\chem3\nt8.1\20181003.B\NT818100312.D

Date: 03-OCT-2018 16:02

Client ID:

Sample Info: 1810285-04

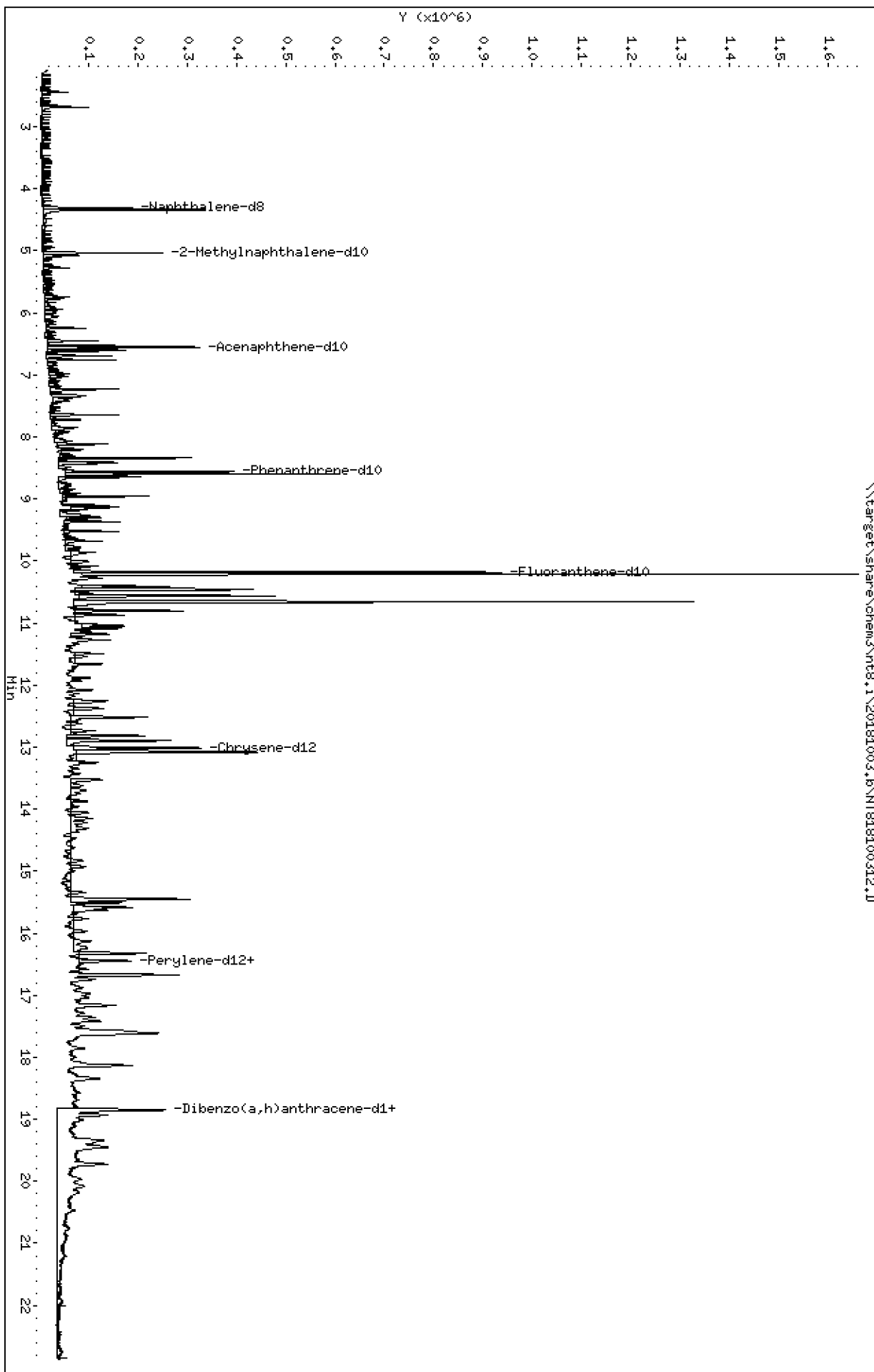
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

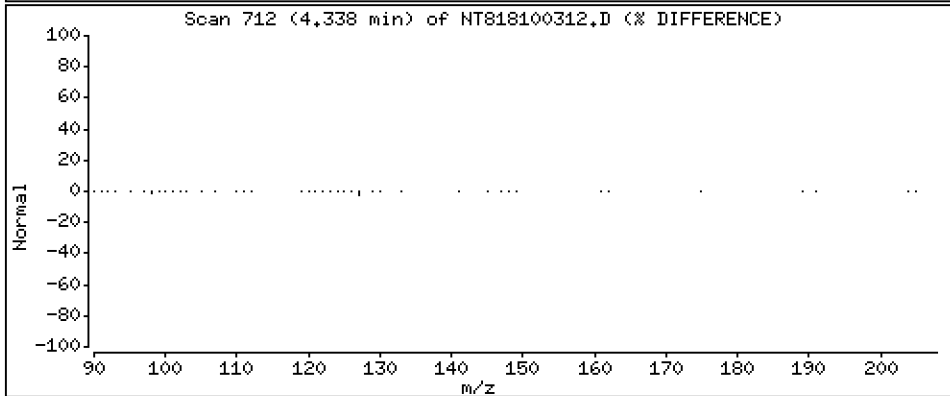
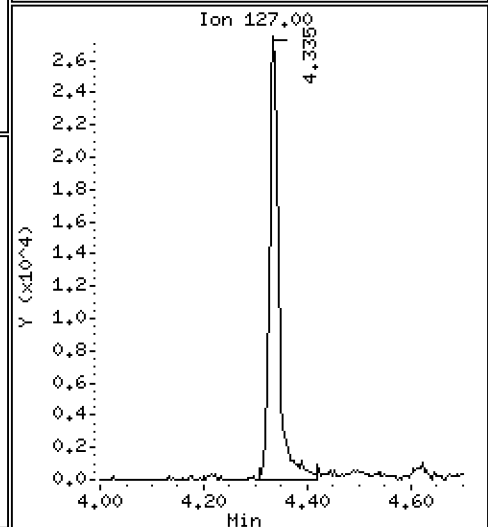
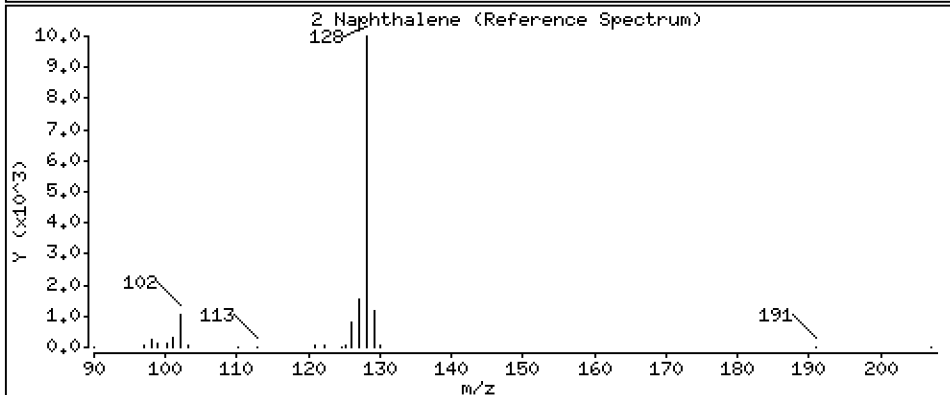
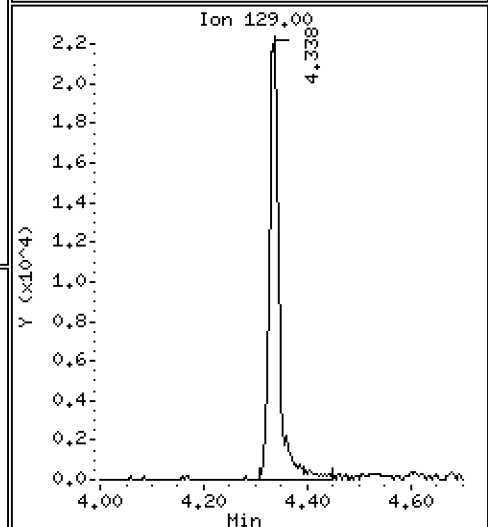
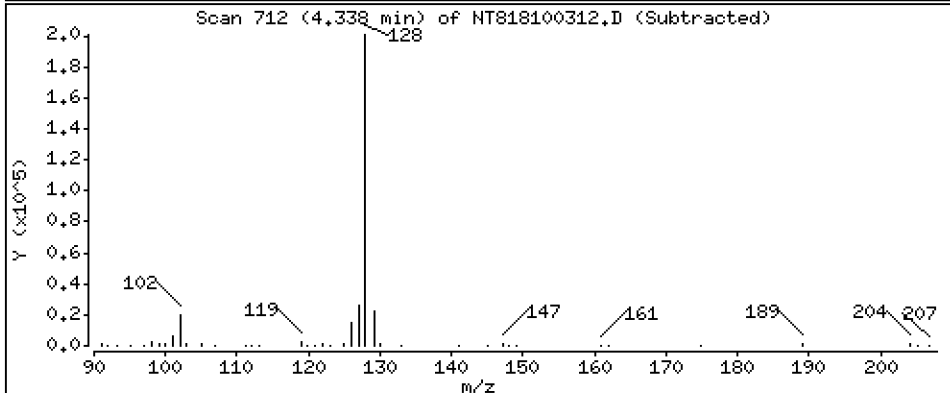
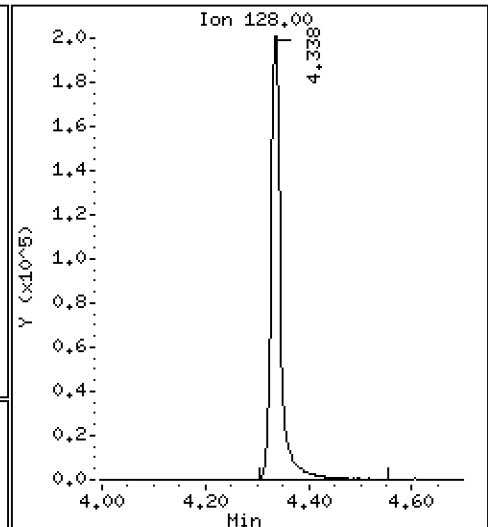
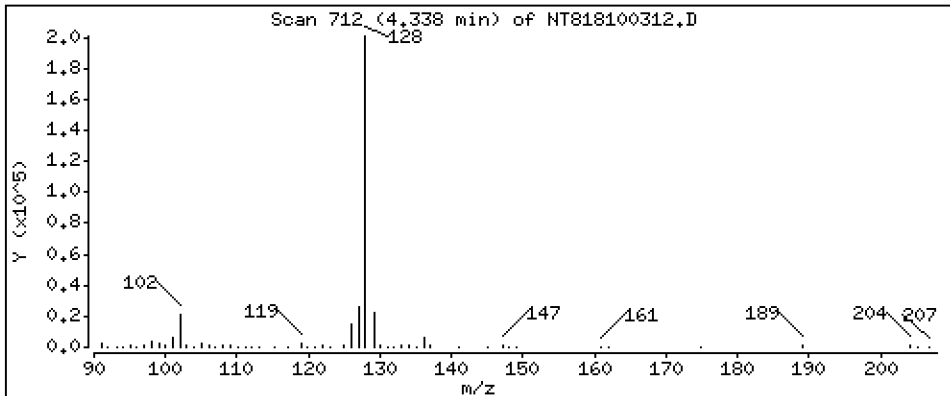
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 3,179 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

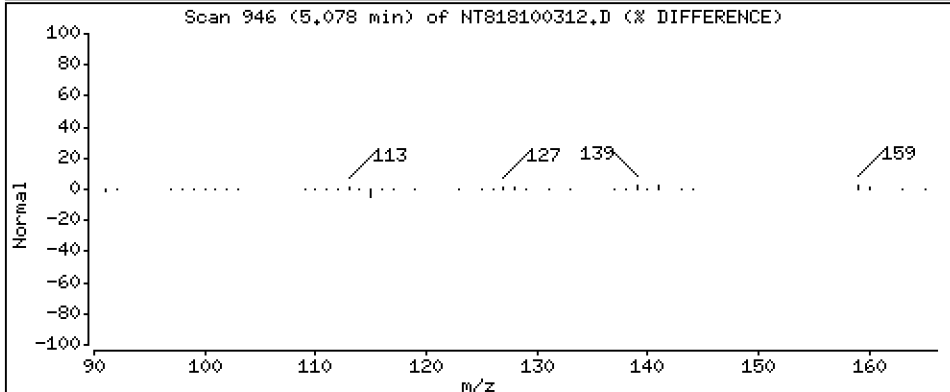
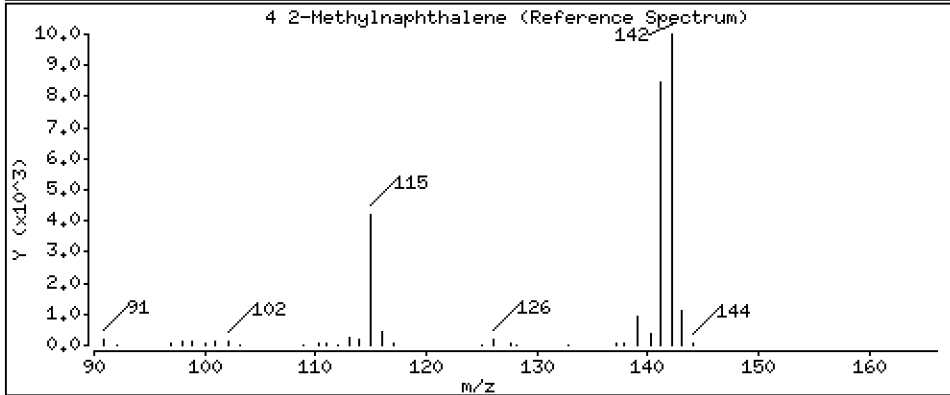
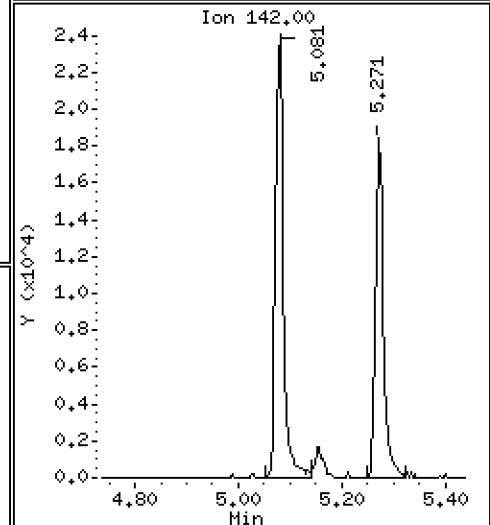
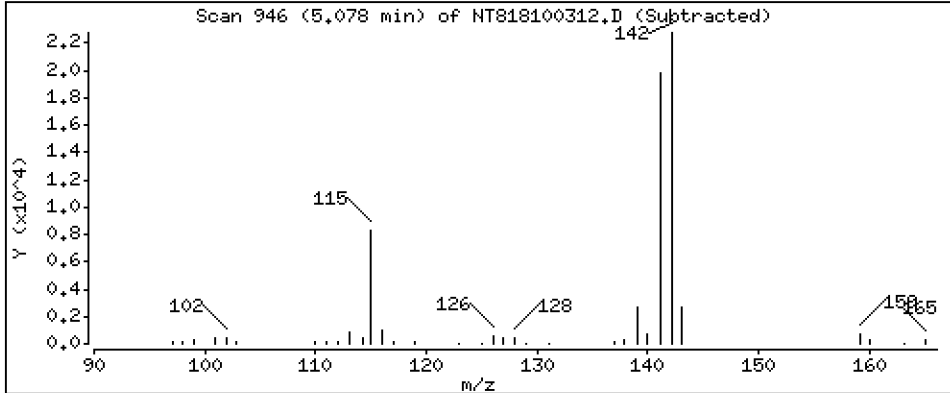
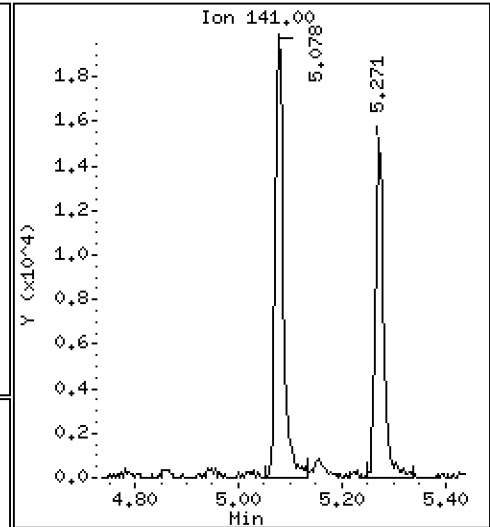
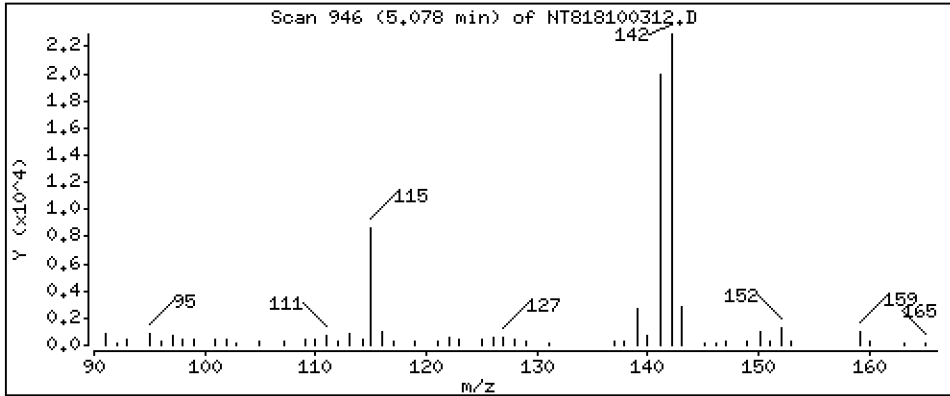
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4 2-Methylnaphthalene

Concentration: 0.4674 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

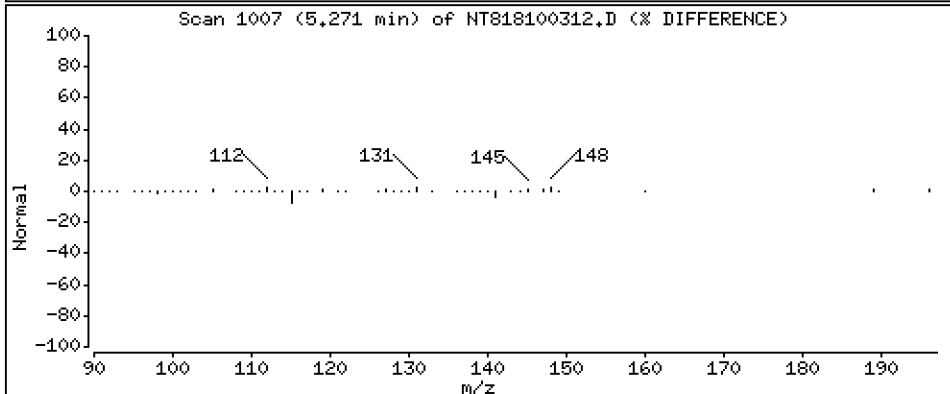
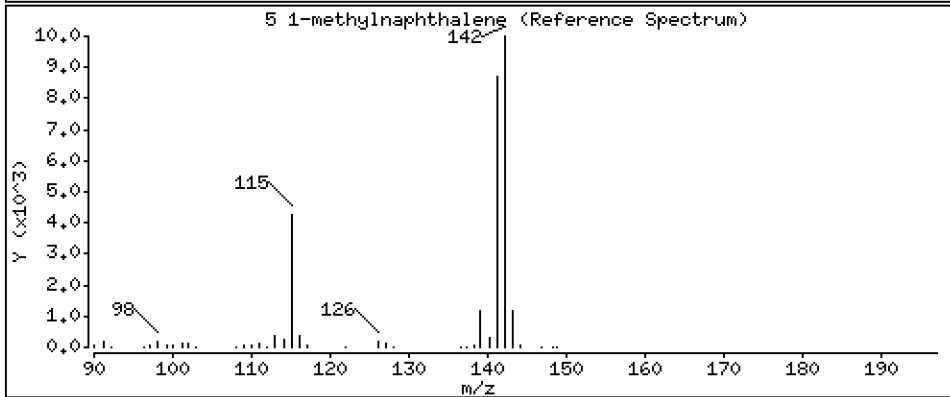
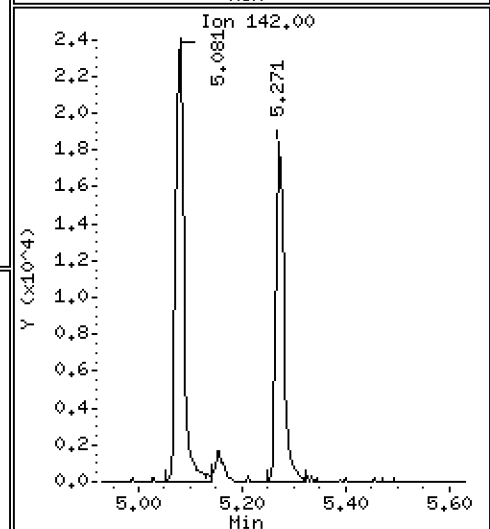
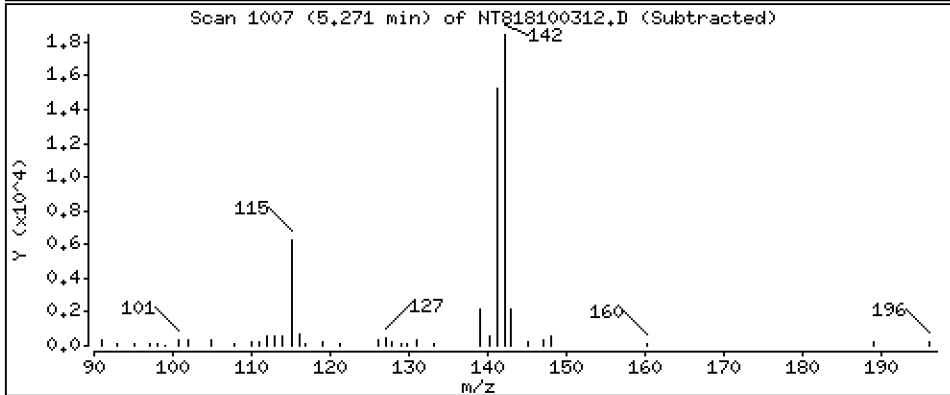
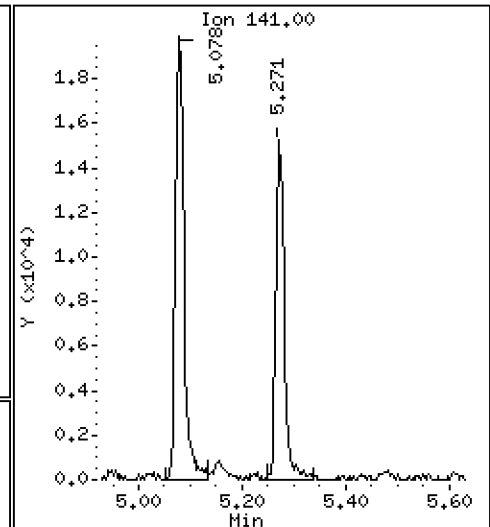
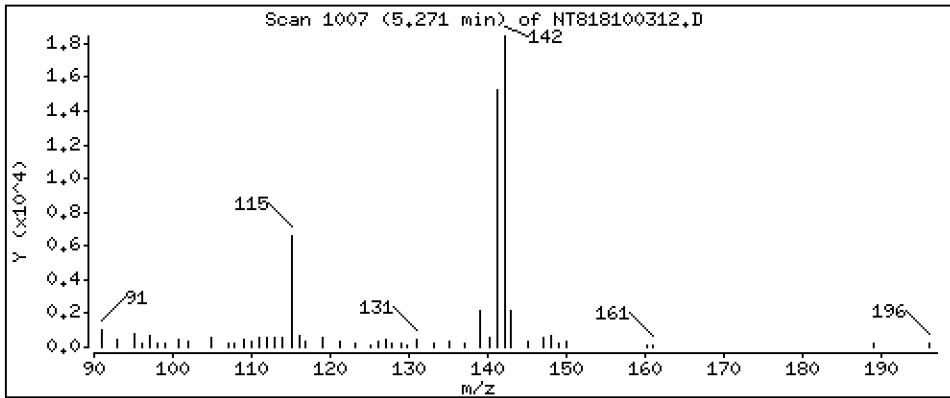
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

5 1-methylnaphthalene

Concentration: 0.3481 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

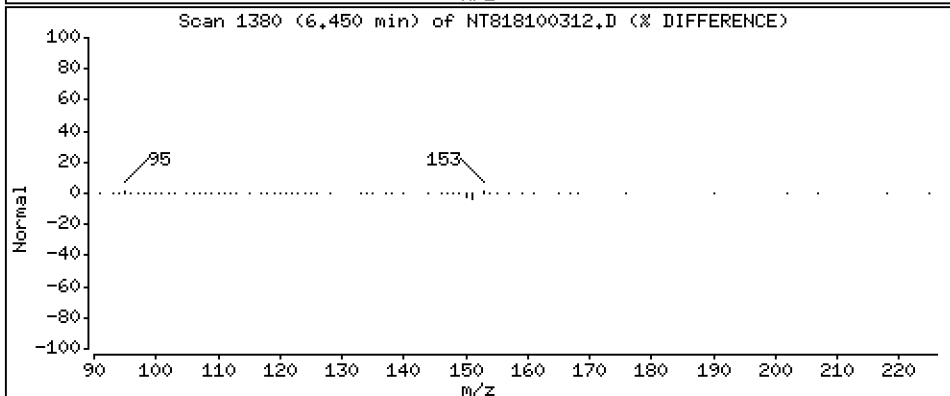
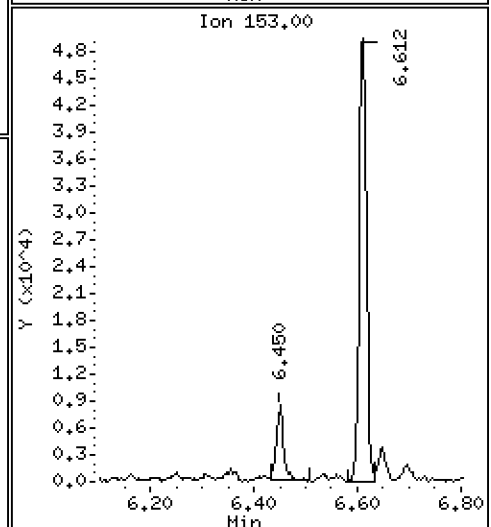
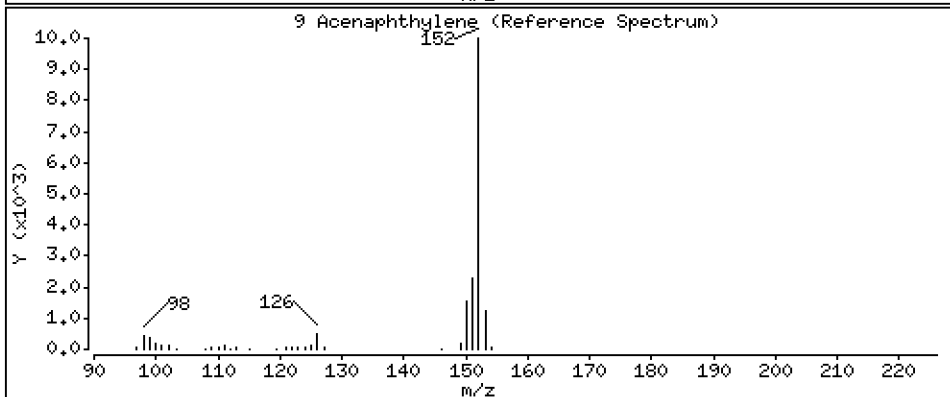
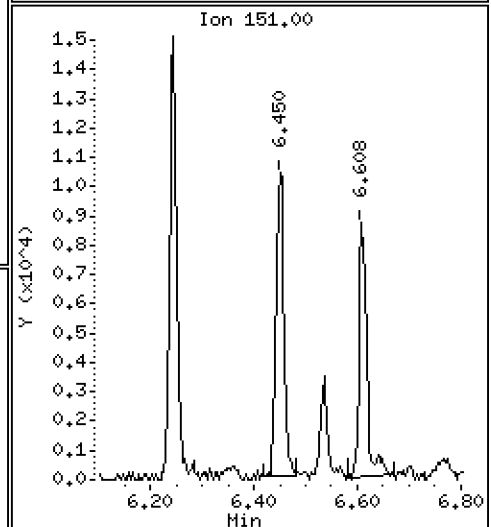
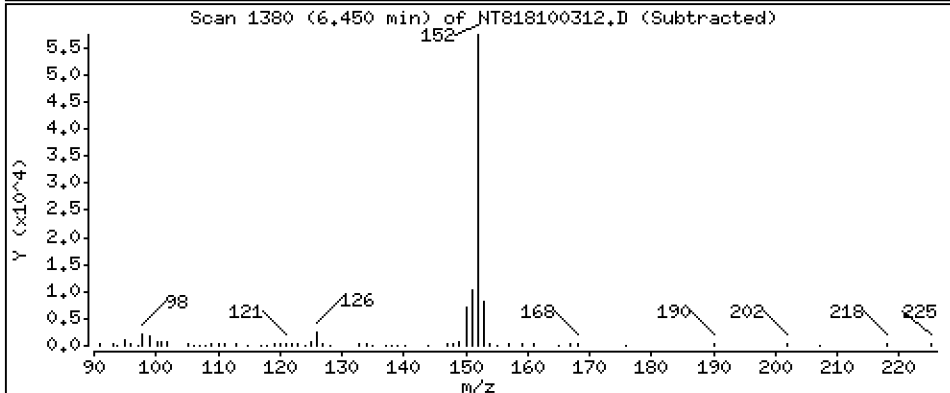
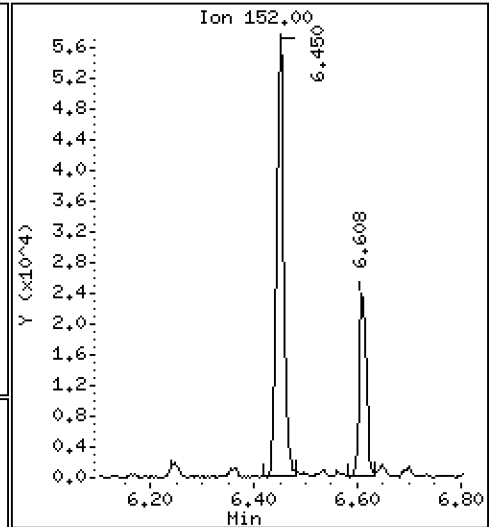
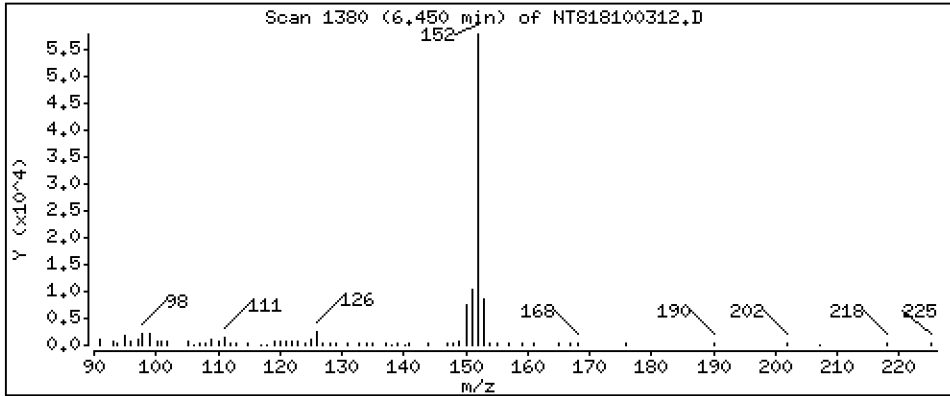
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

9 Acenaphthylene

Concentration: 0,6582 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

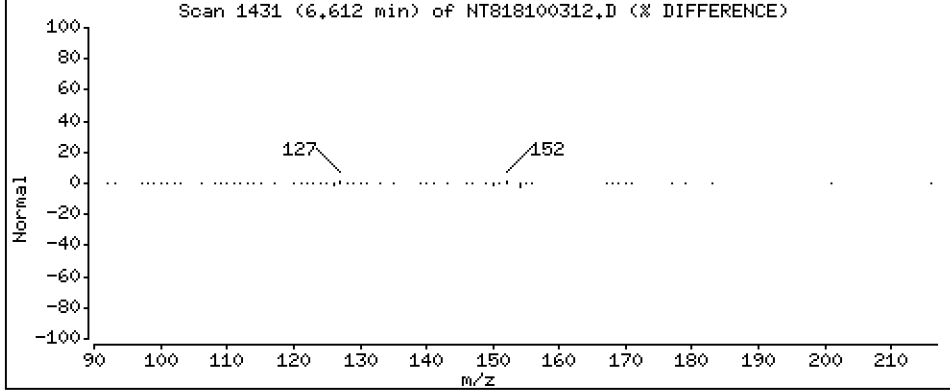
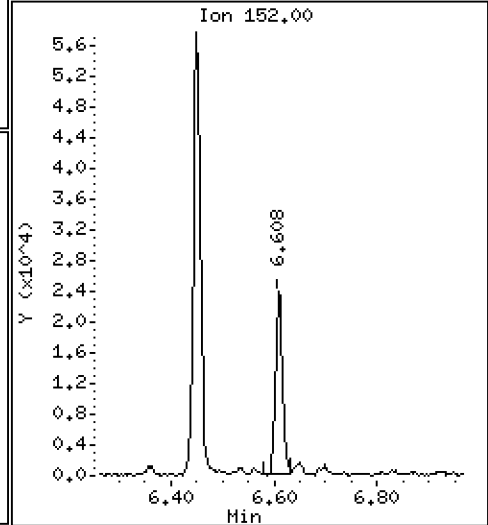
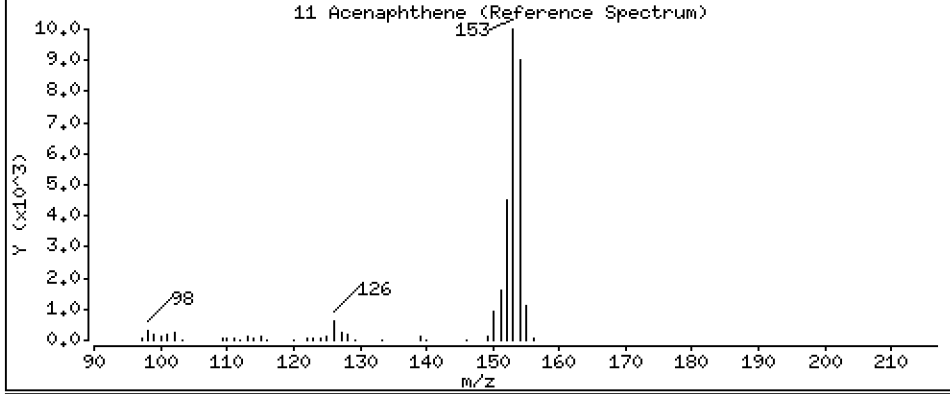
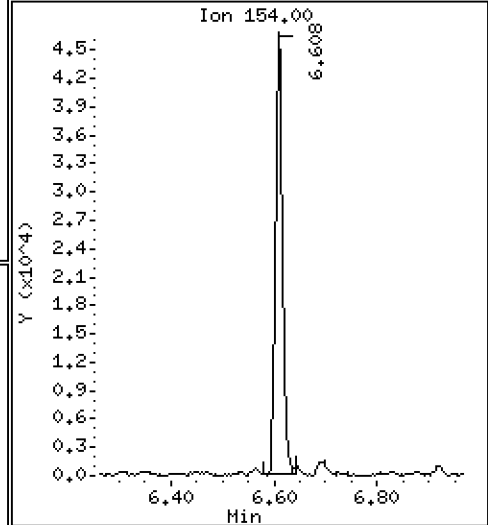
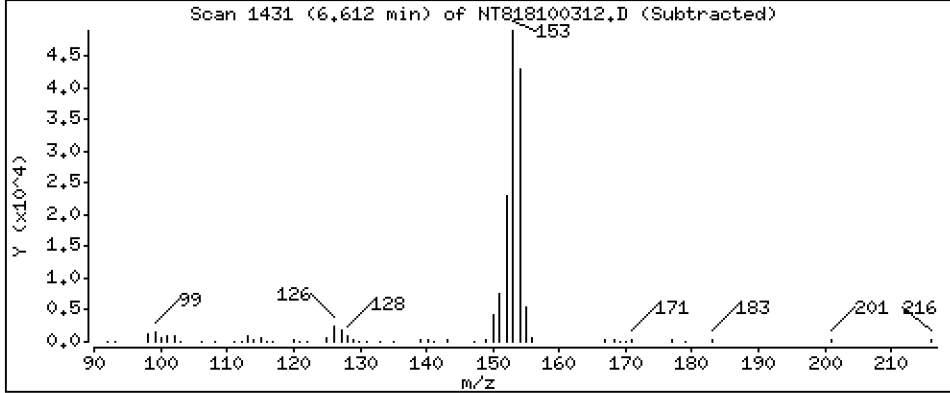
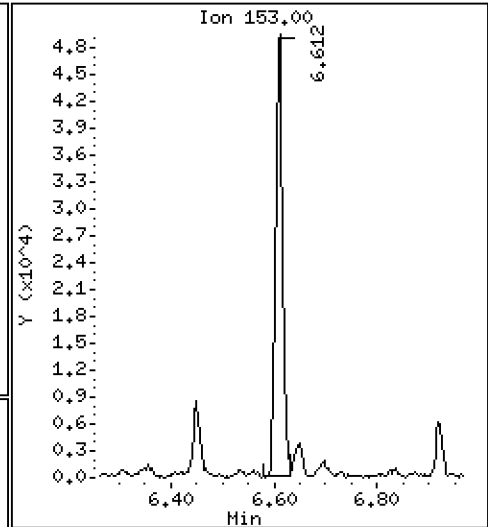
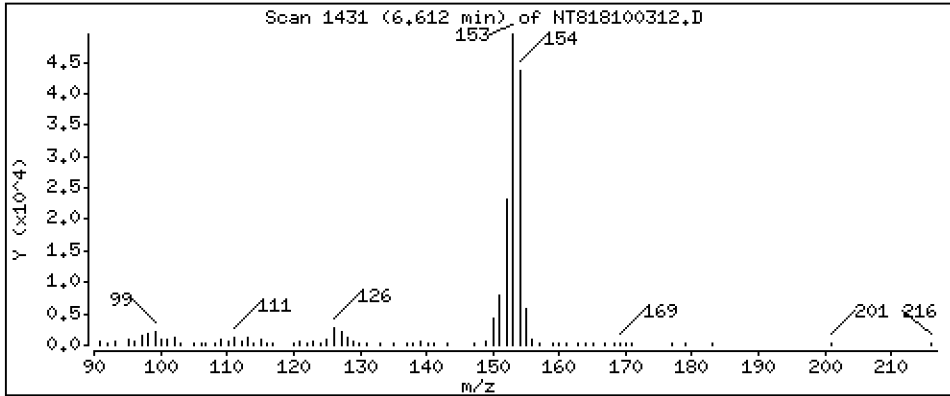
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,8396 ug/mL

11 Acenaphthene



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

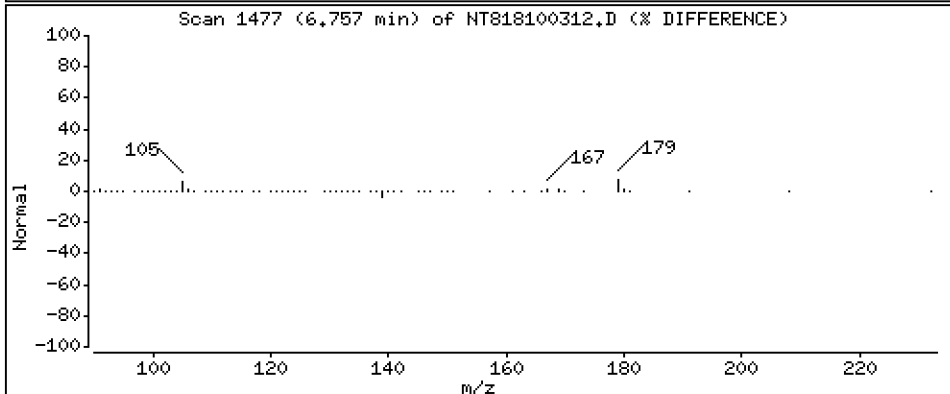
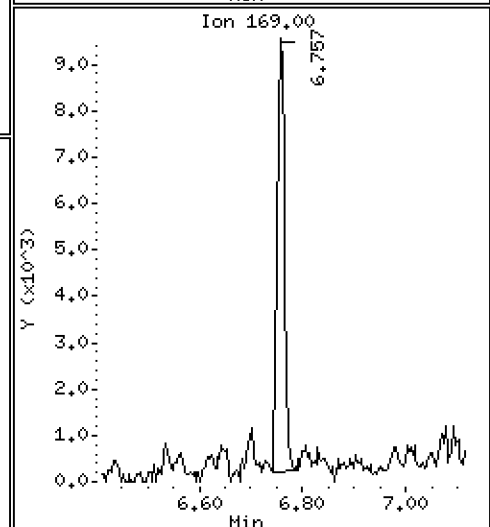
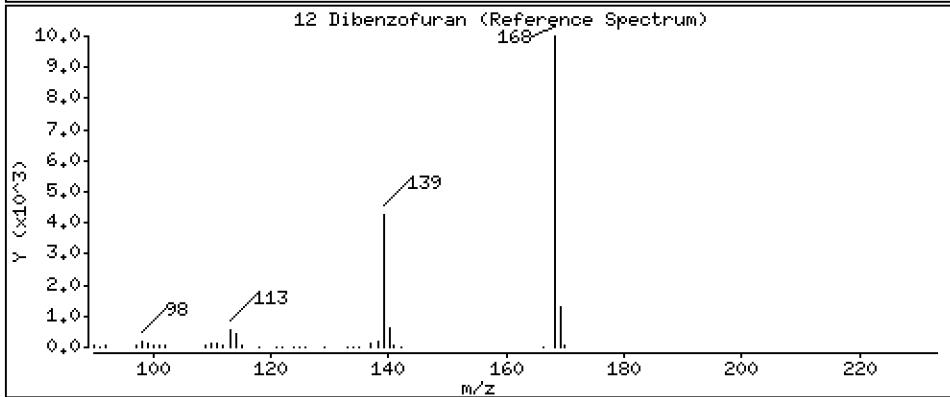
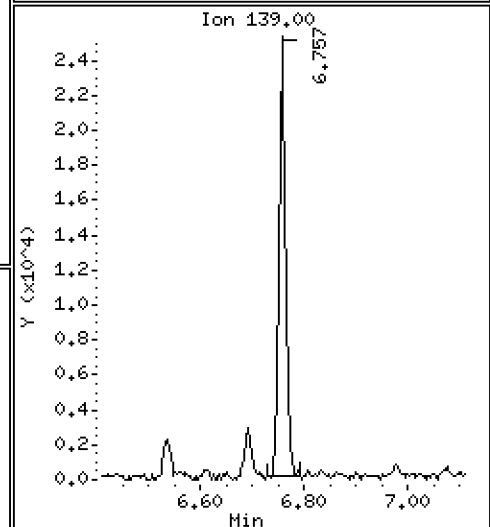
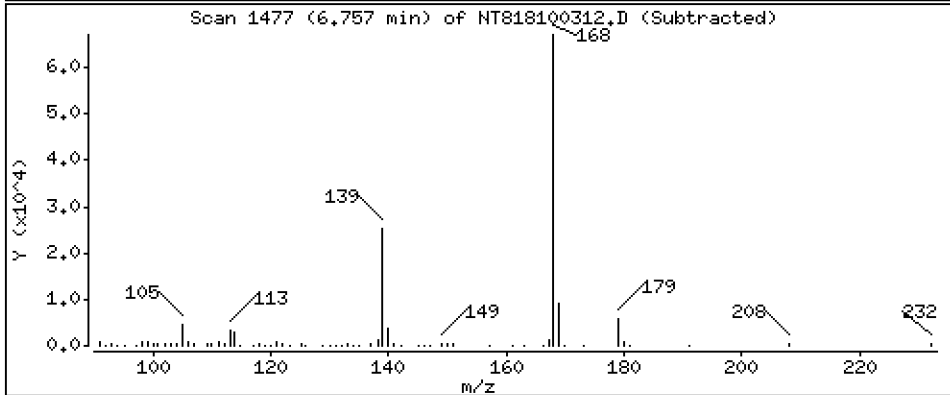
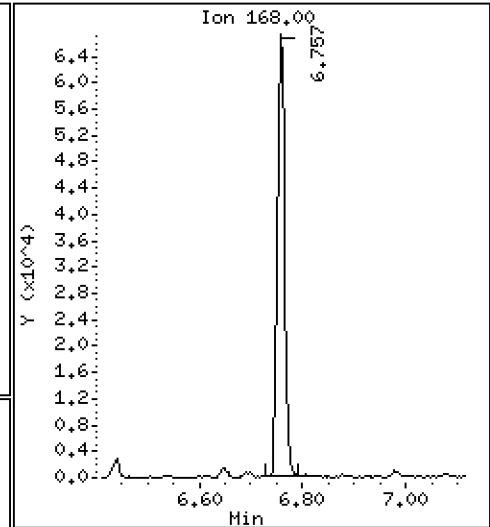
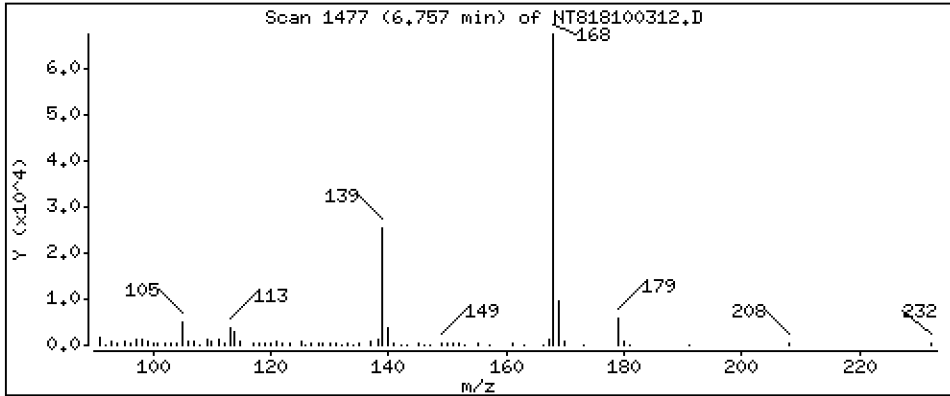
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

12 Dibenzofuran

Concentration: 0.8136 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

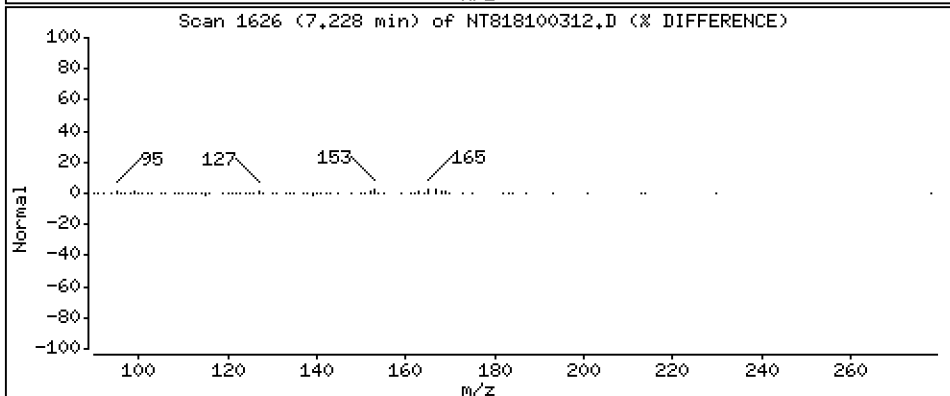
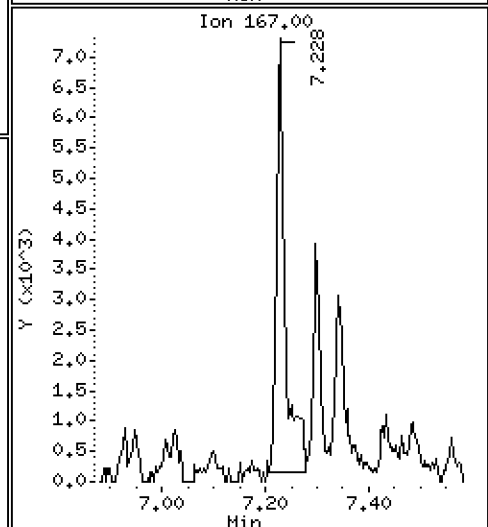
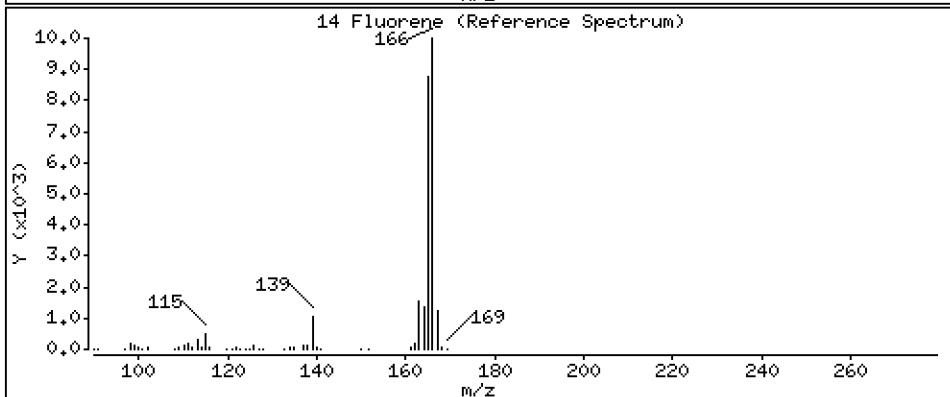
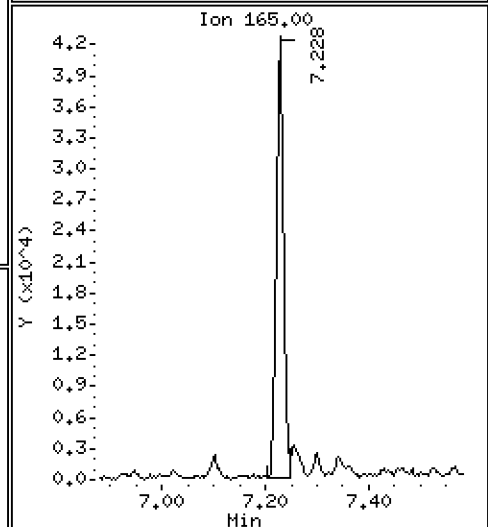
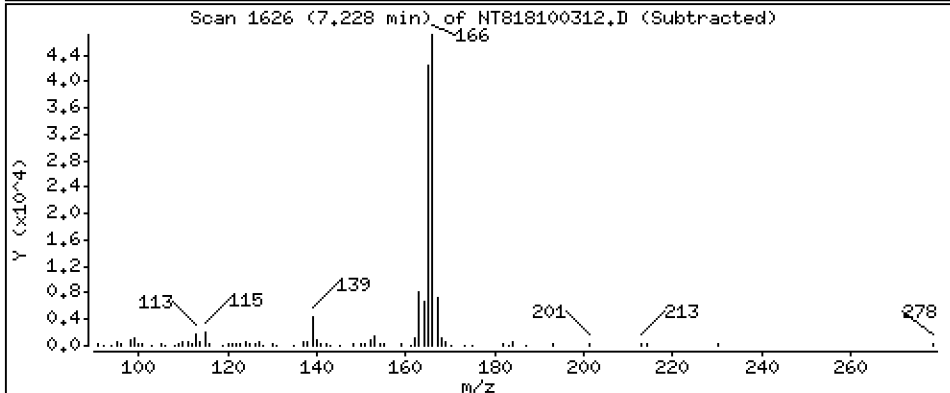
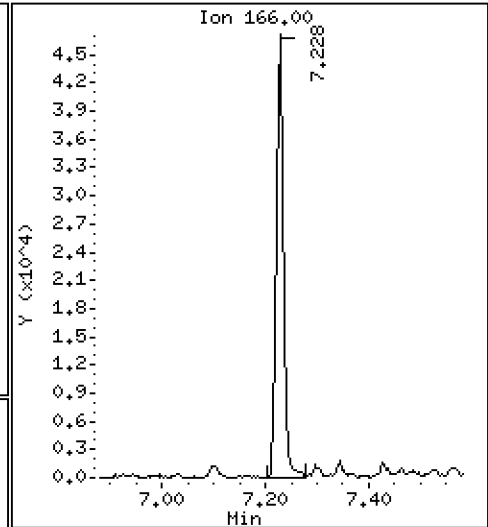
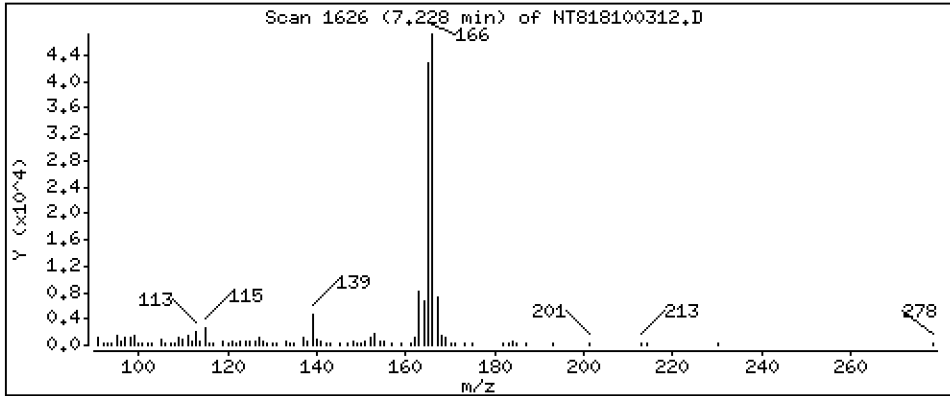
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,7260 ug/mL

14 Fluorene



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

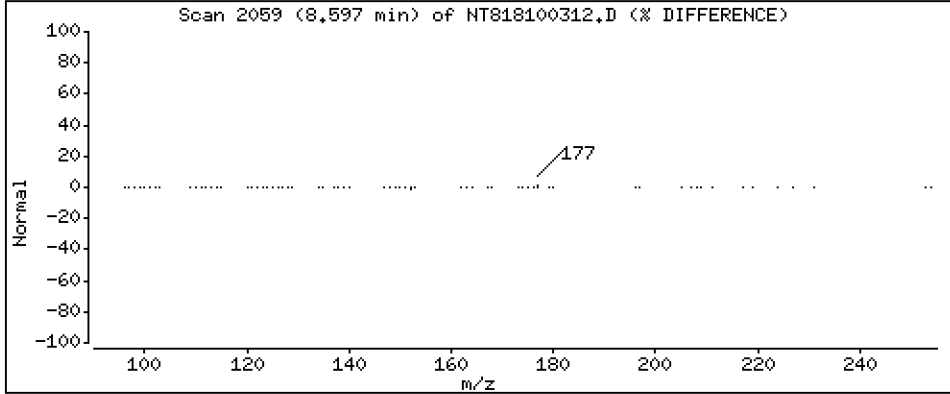
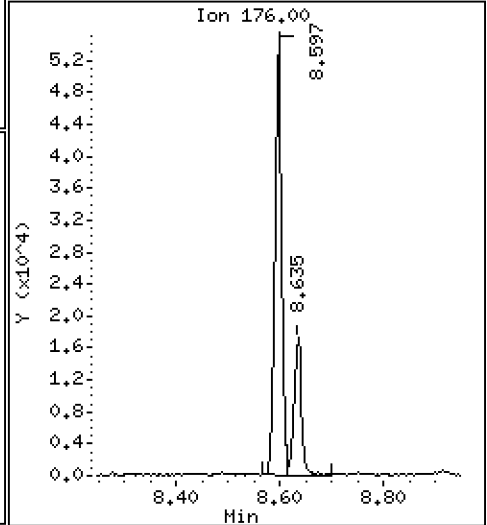
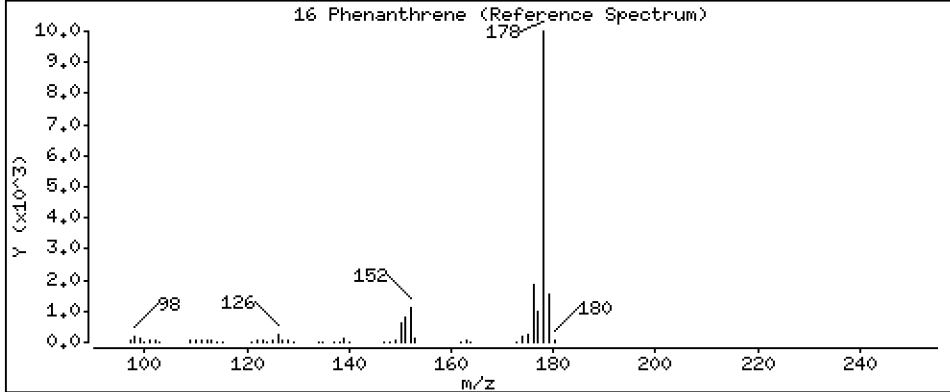
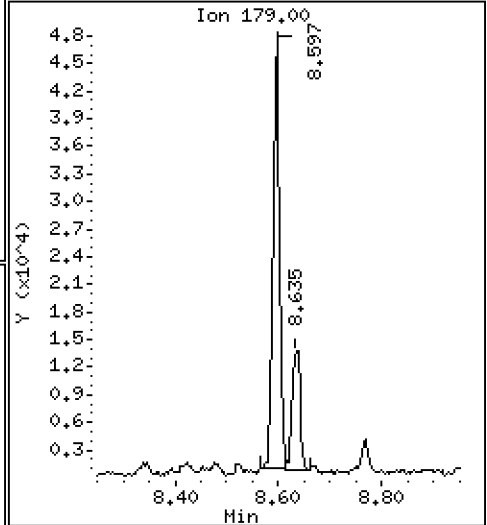
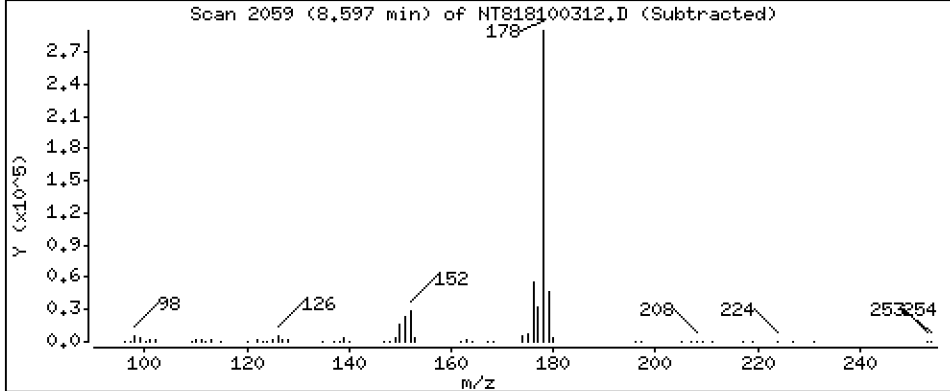
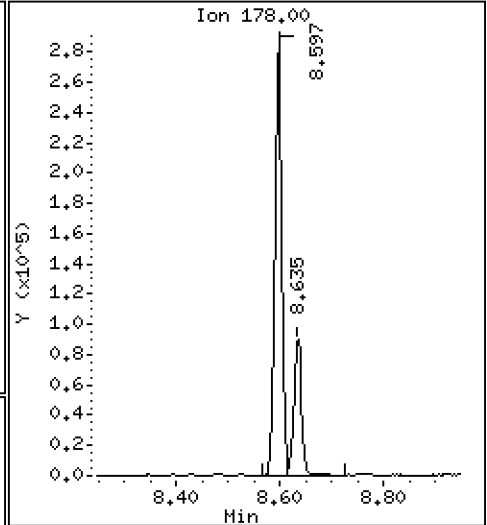
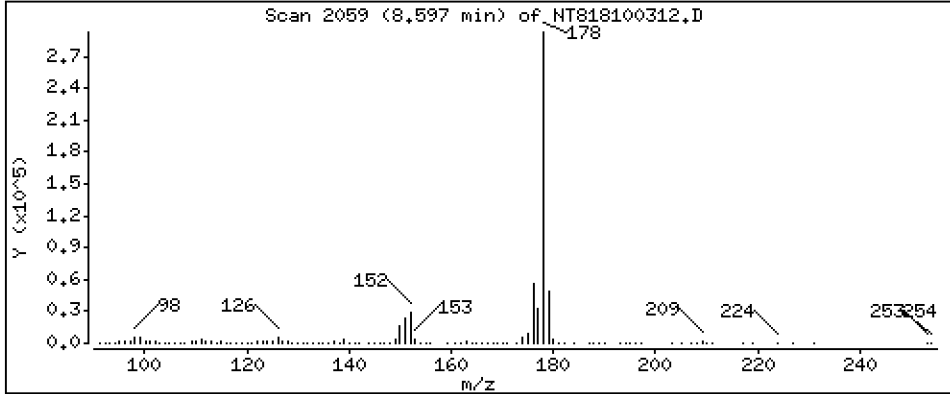
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 3,185 ug/mL

16 Phenanthrene



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

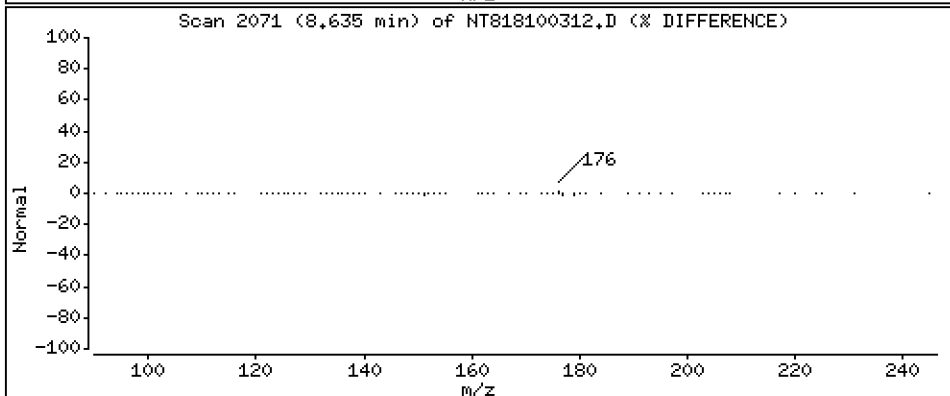
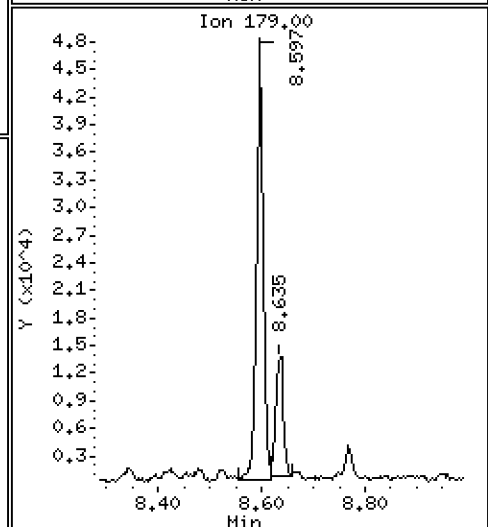
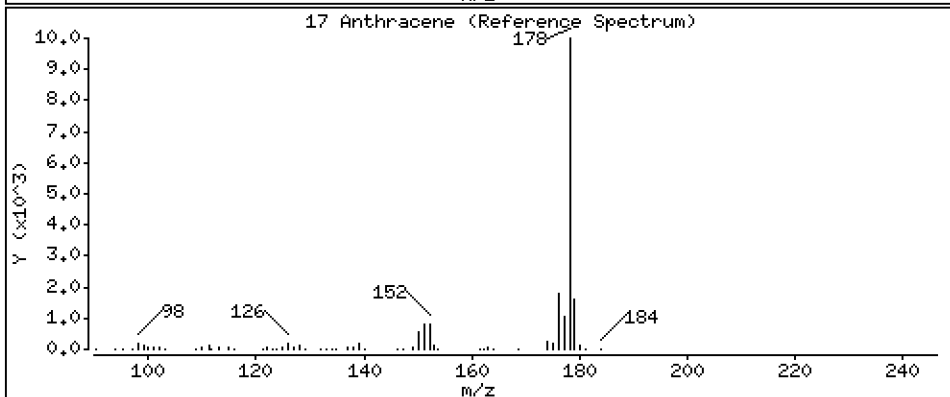
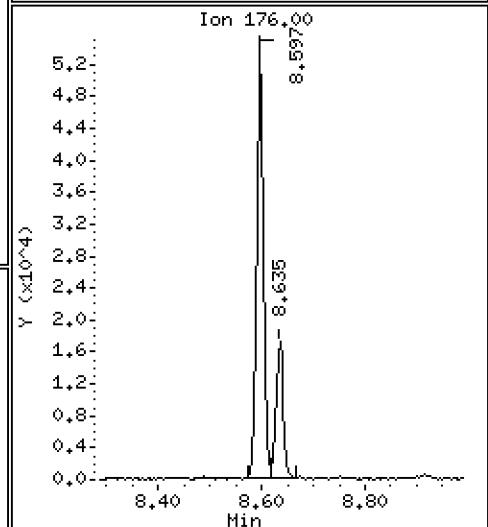
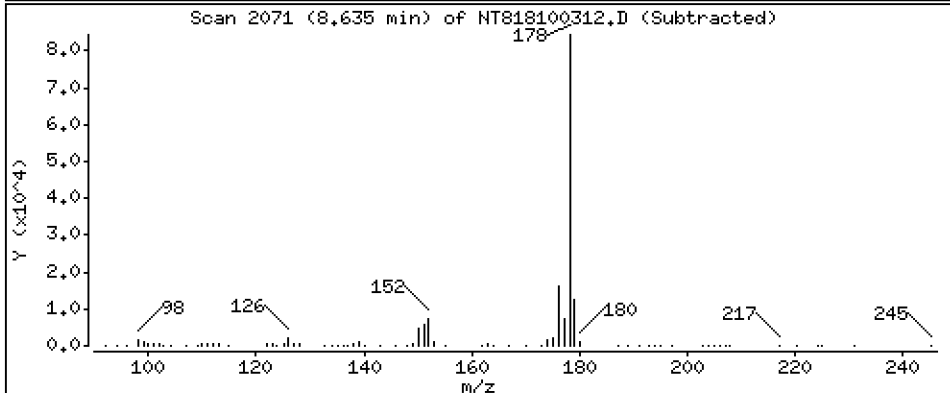
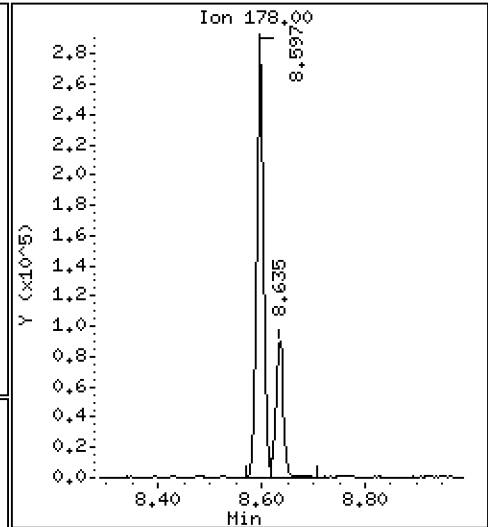
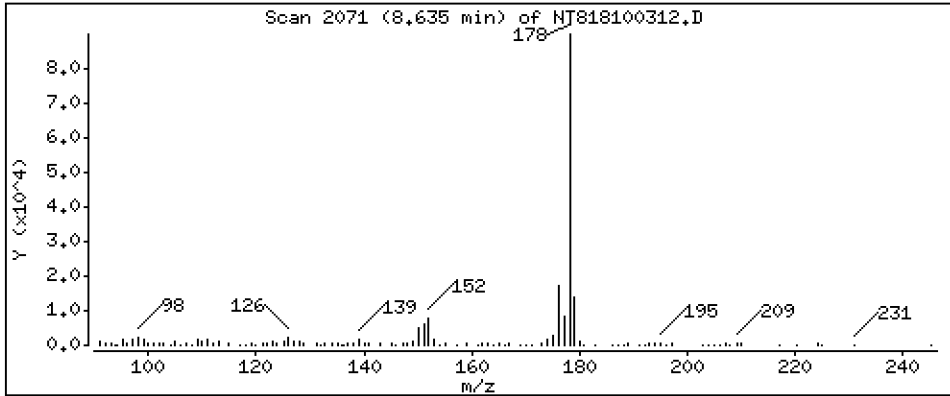
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

17 Anthracene

Concentration: 1,091 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

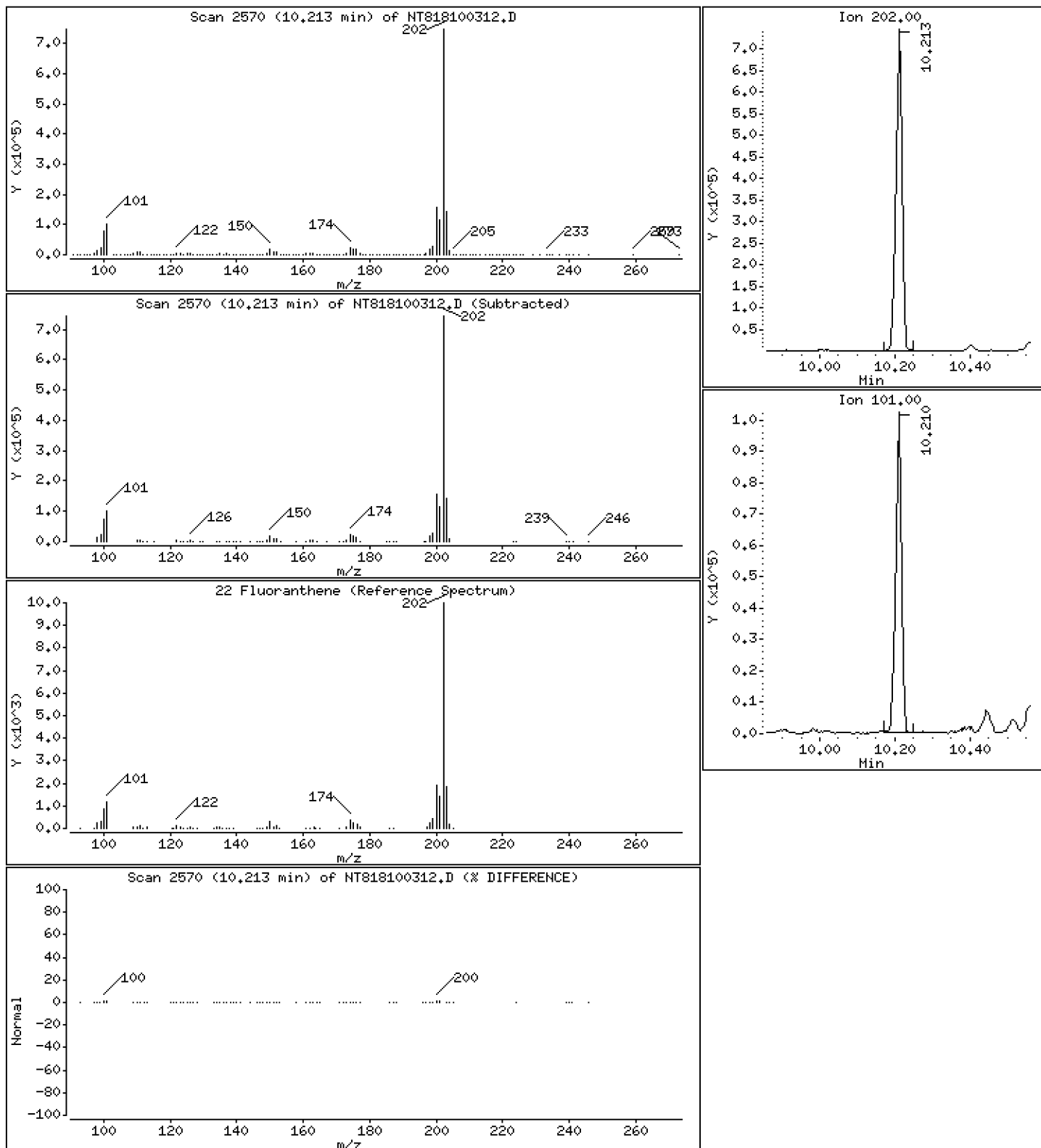
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 8,576 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

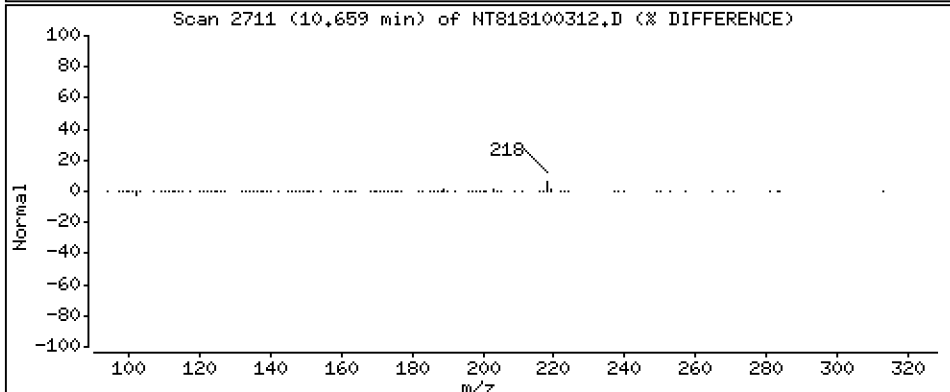
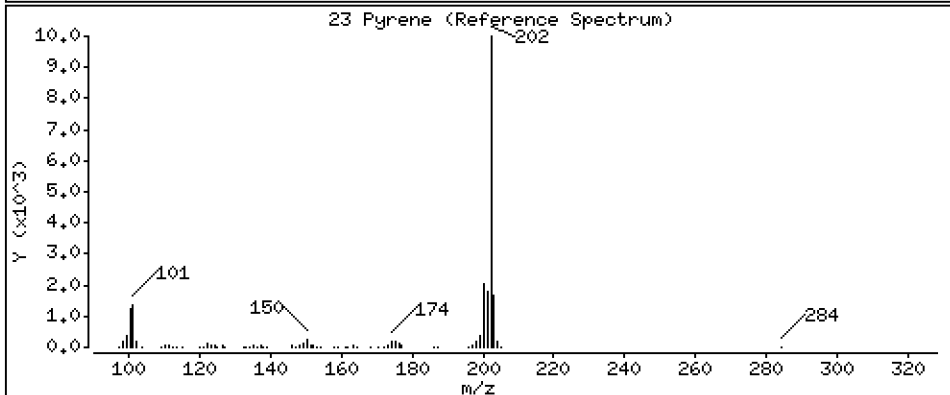
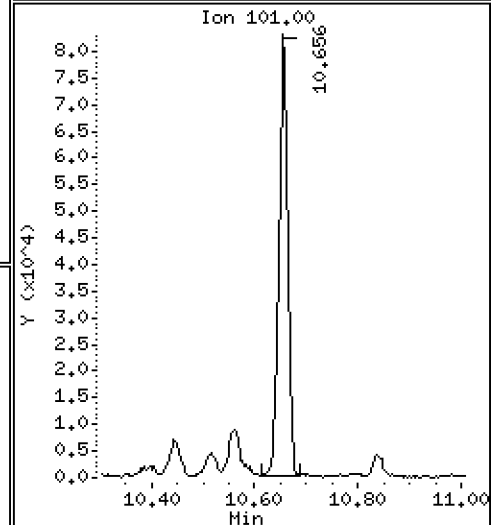
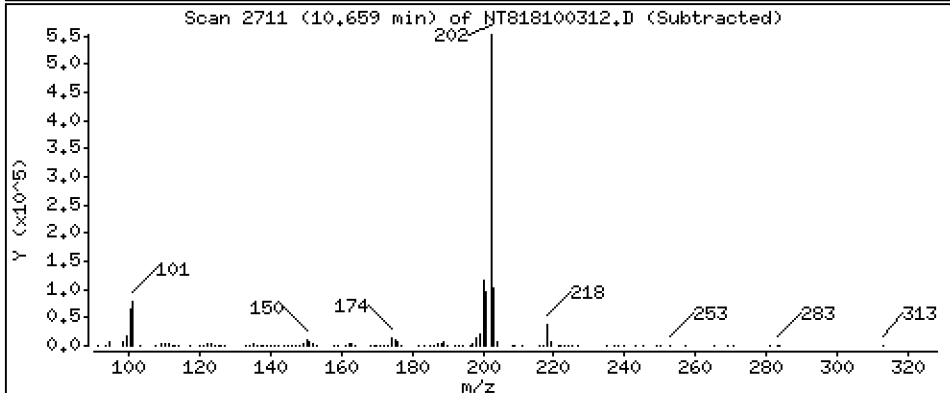
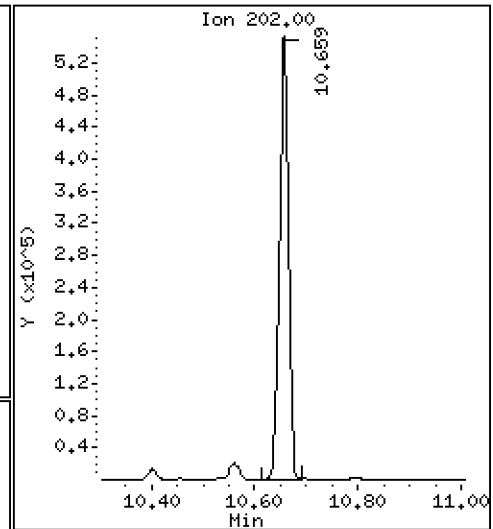
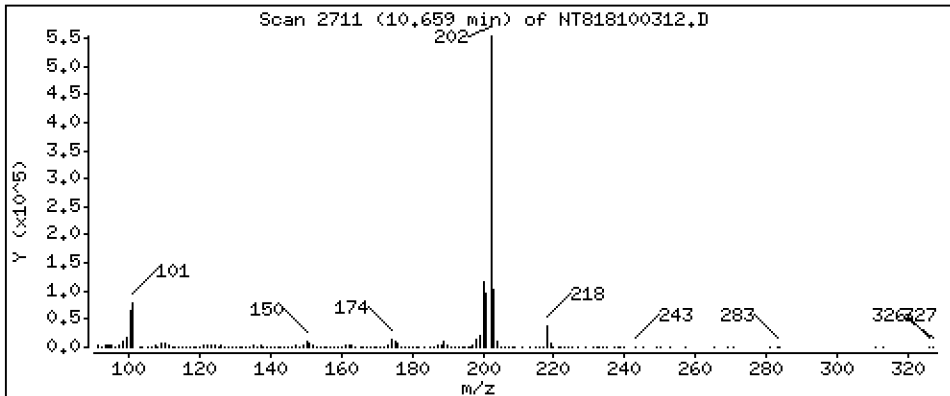
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 6,664 ug/mL

23 Pyrene



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

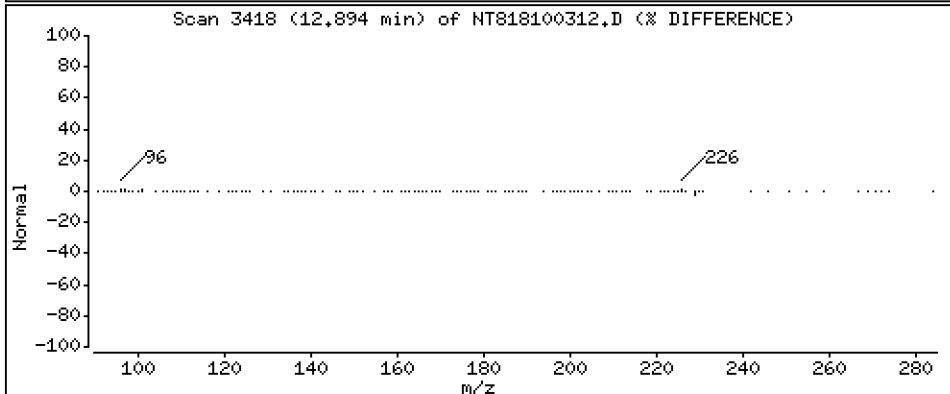
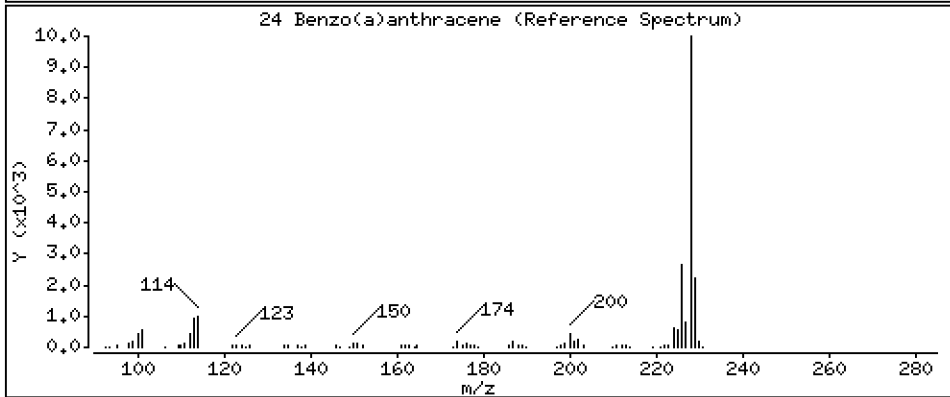
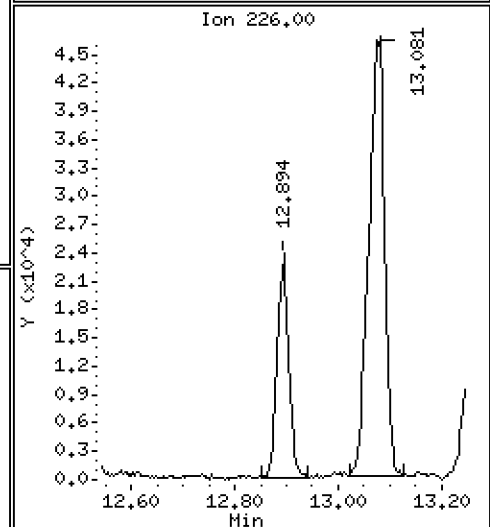
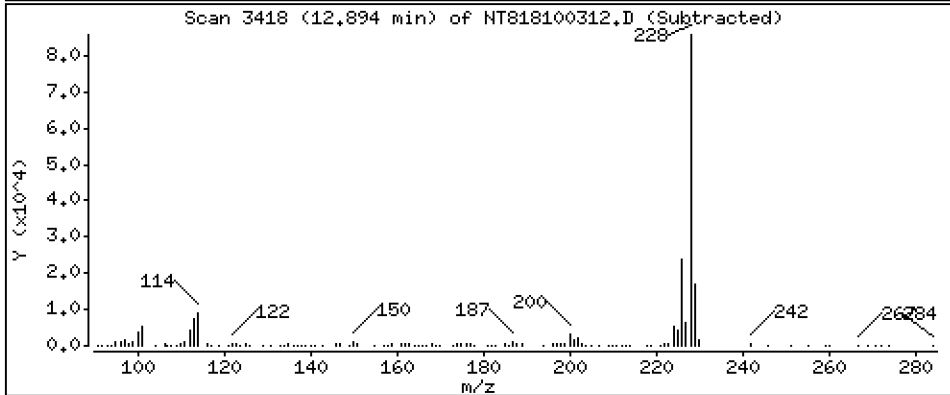
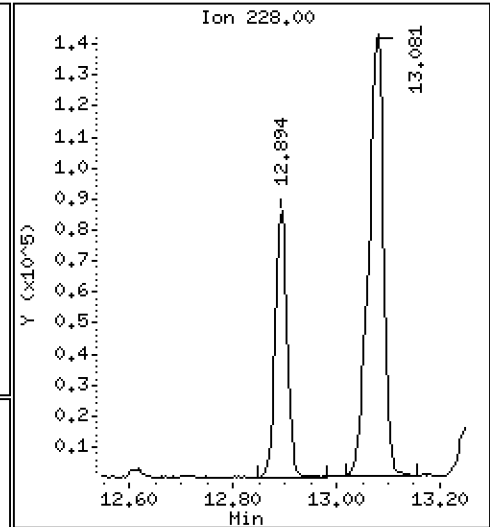
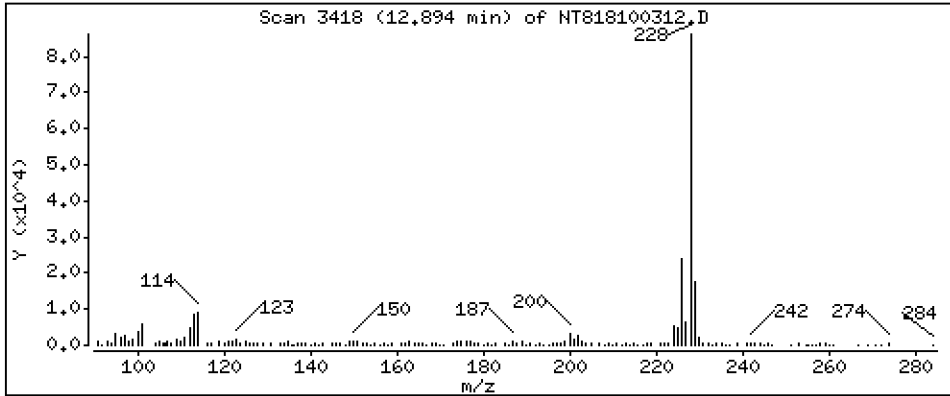
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 1,421 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

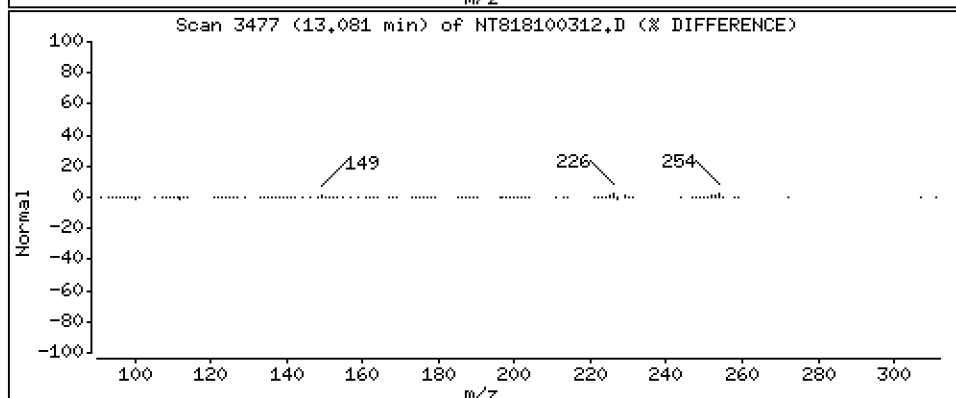
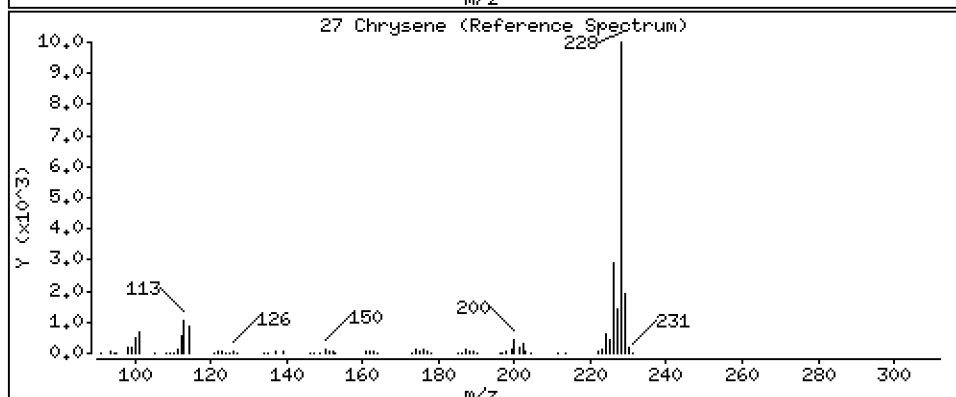
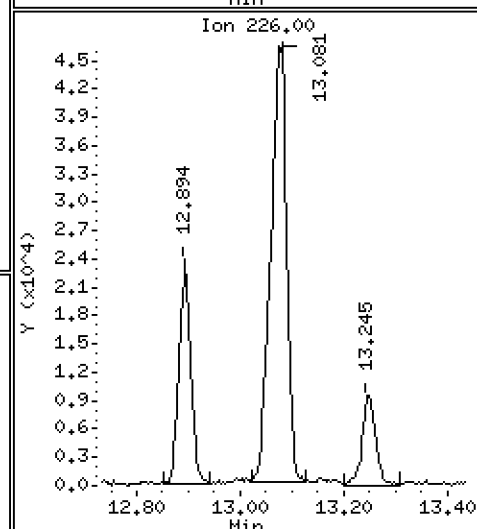
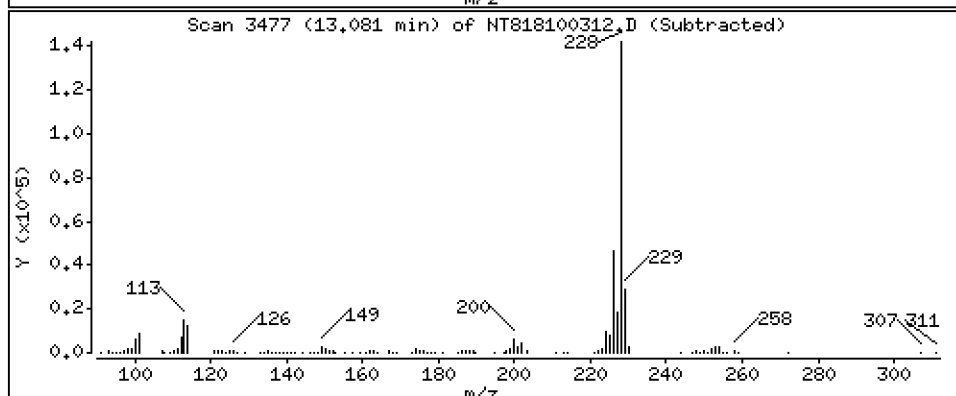
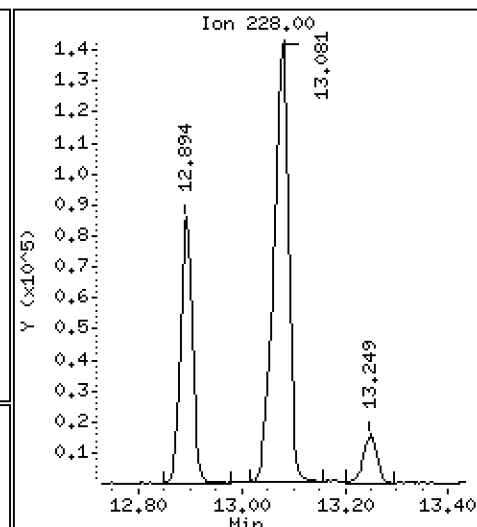
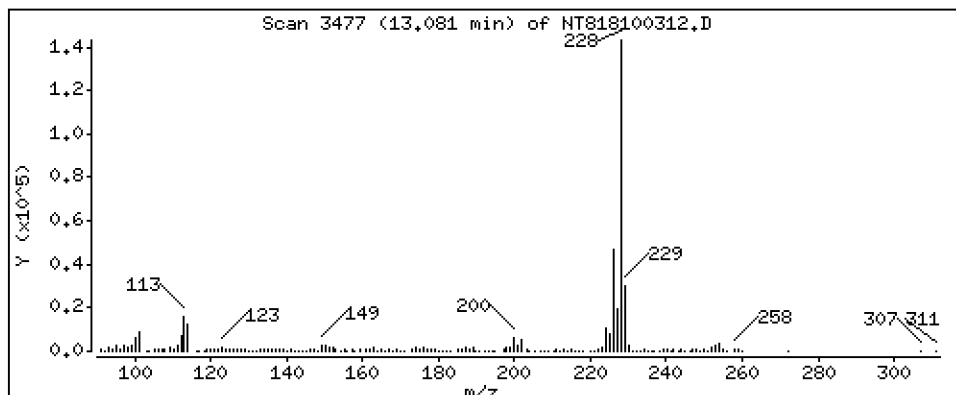
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 3,107 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

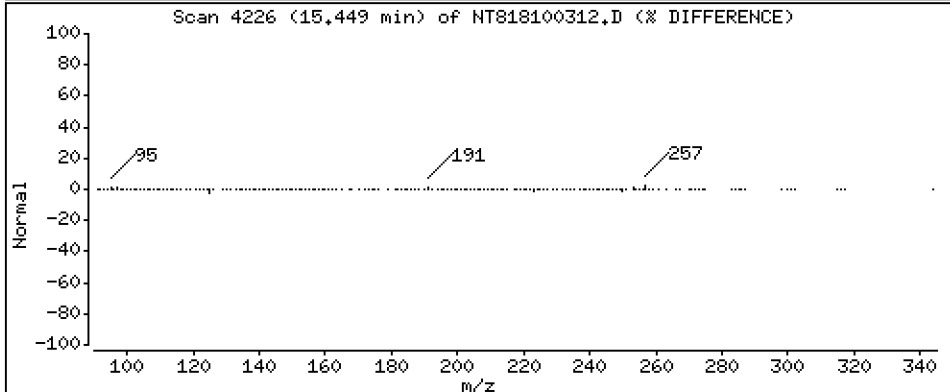
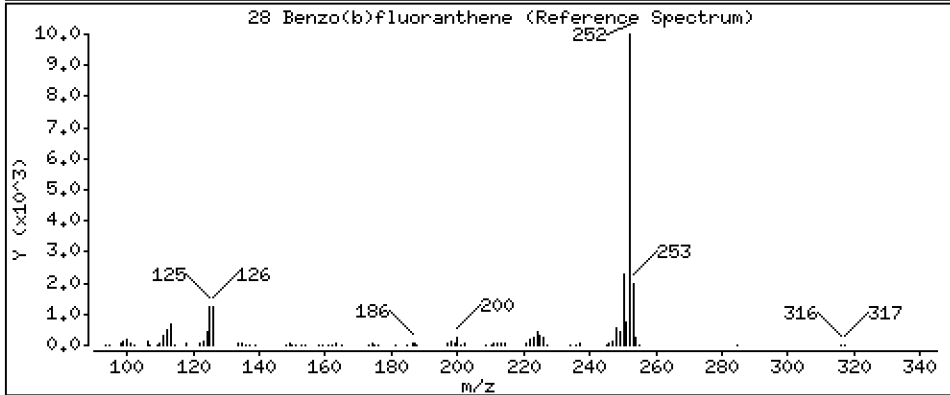
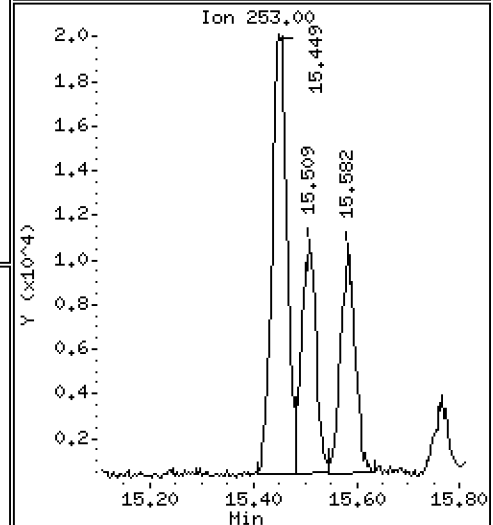
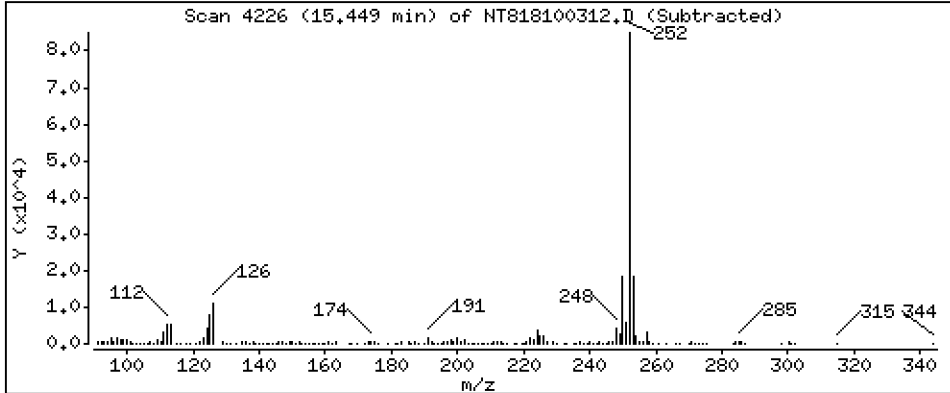
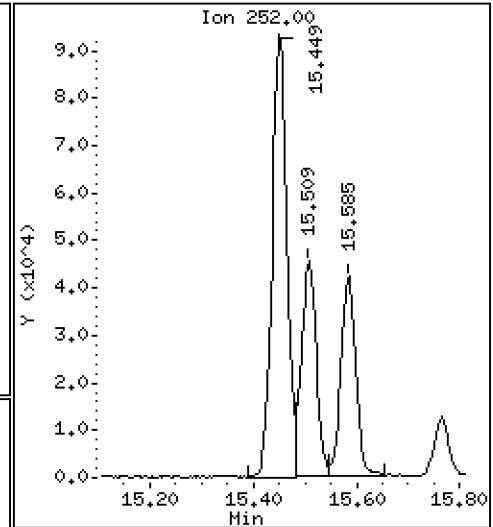
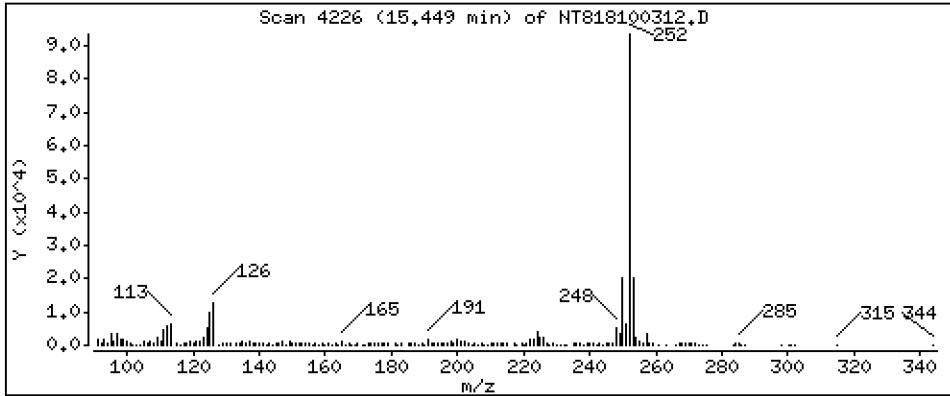
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 1,823 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

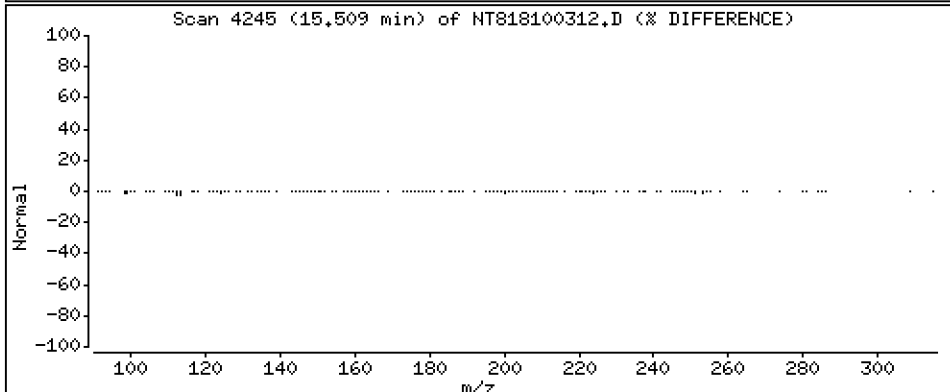
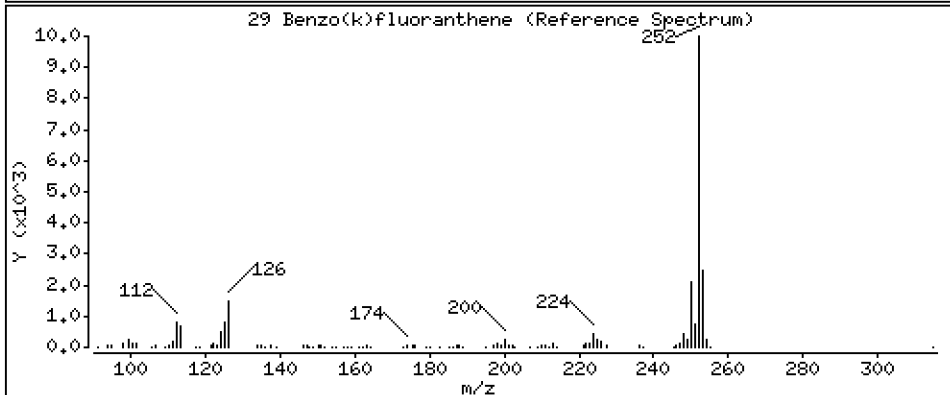
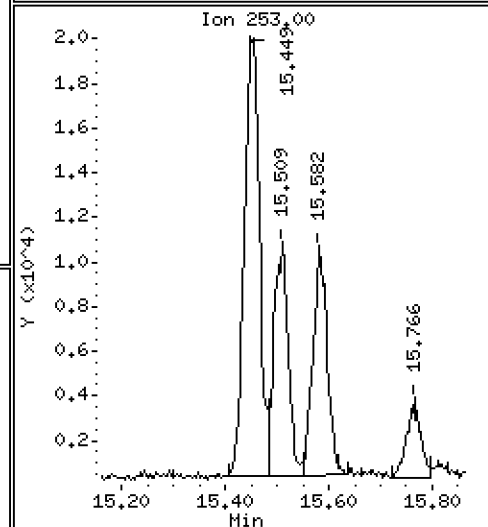
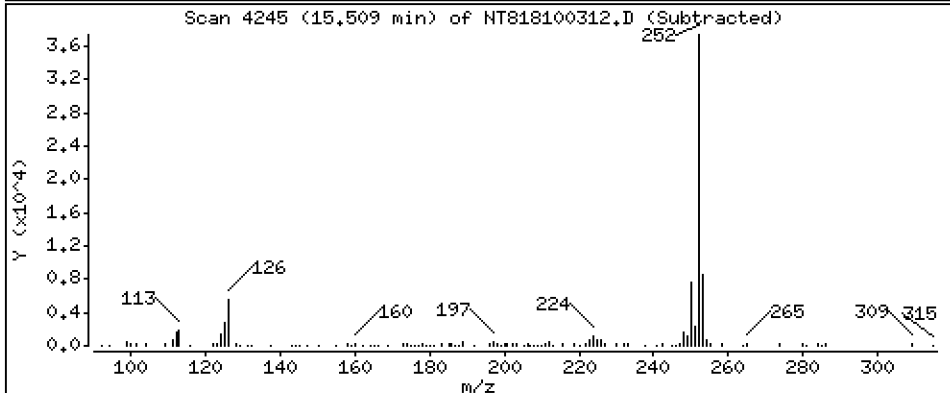
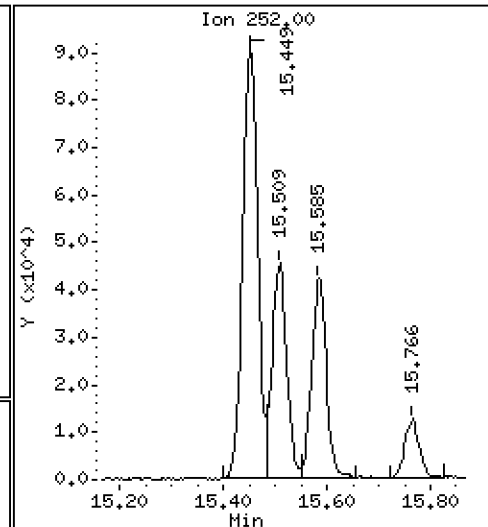
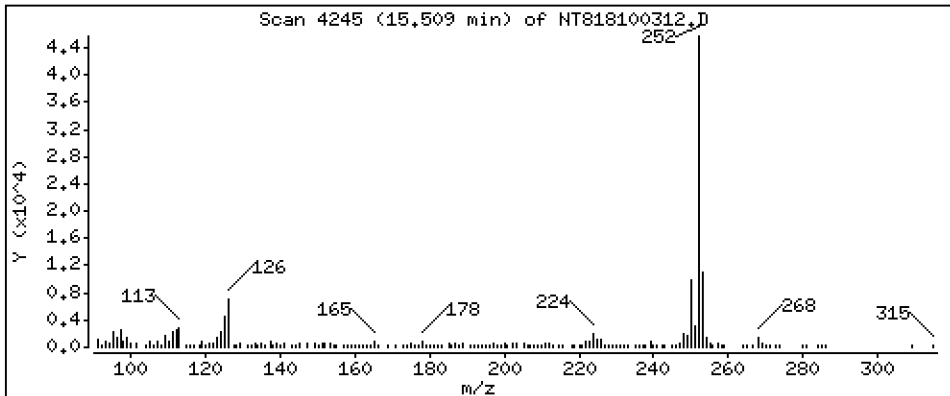
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 0,8892 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

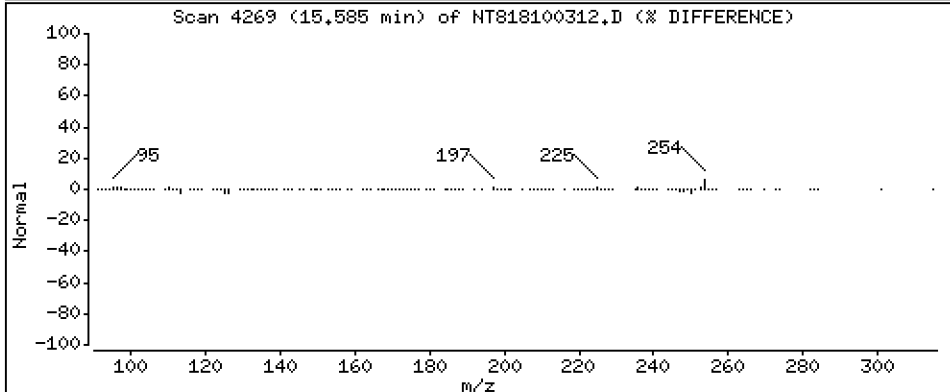
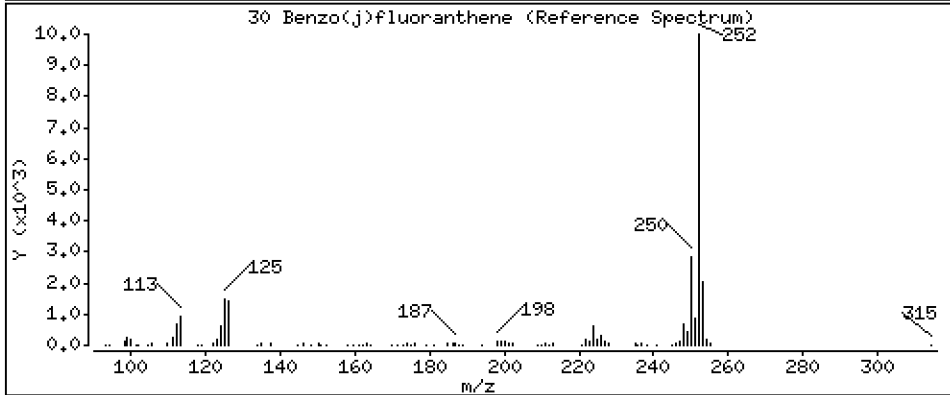
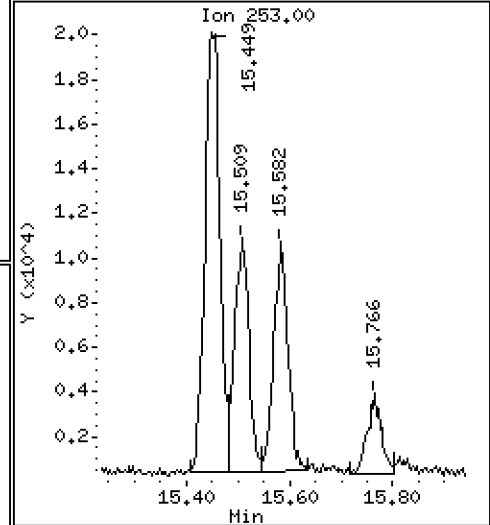
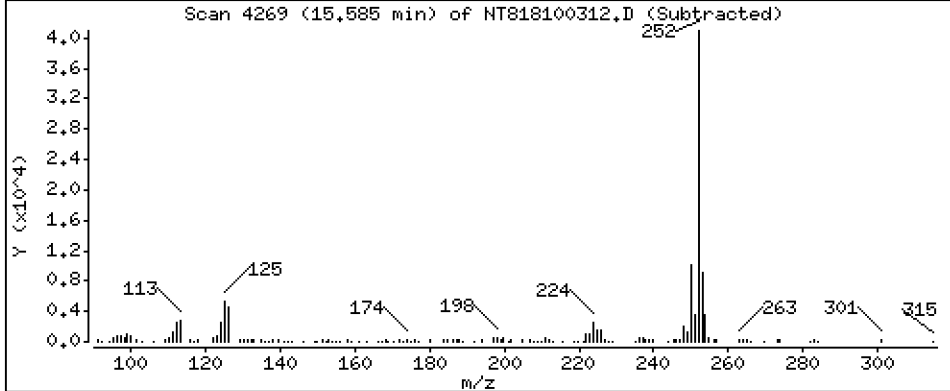
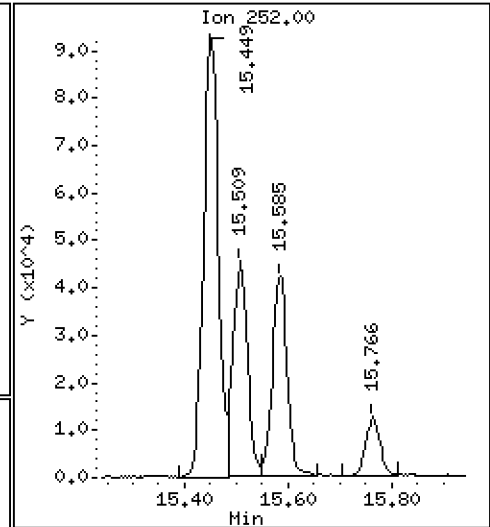
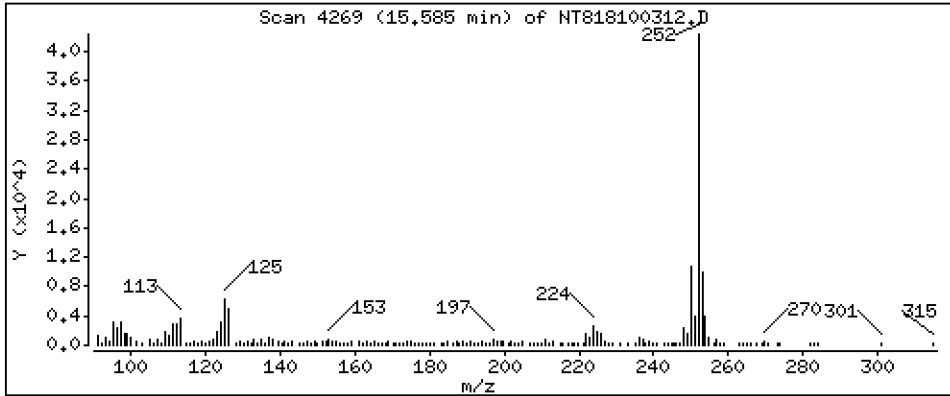
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 0,8723 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

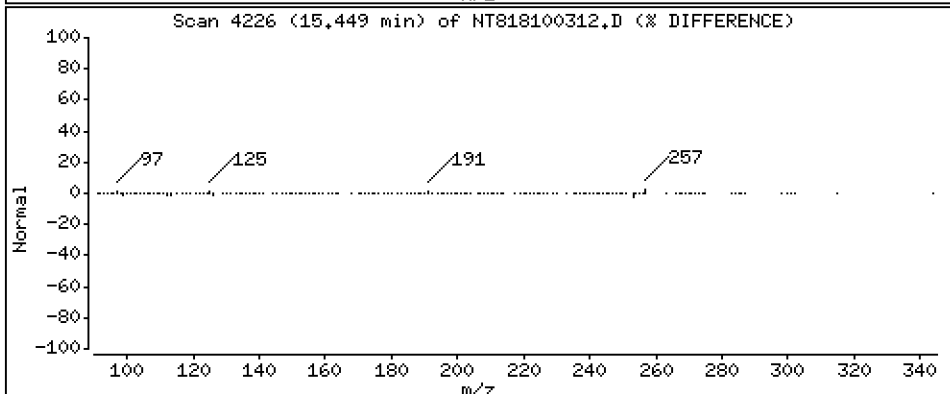
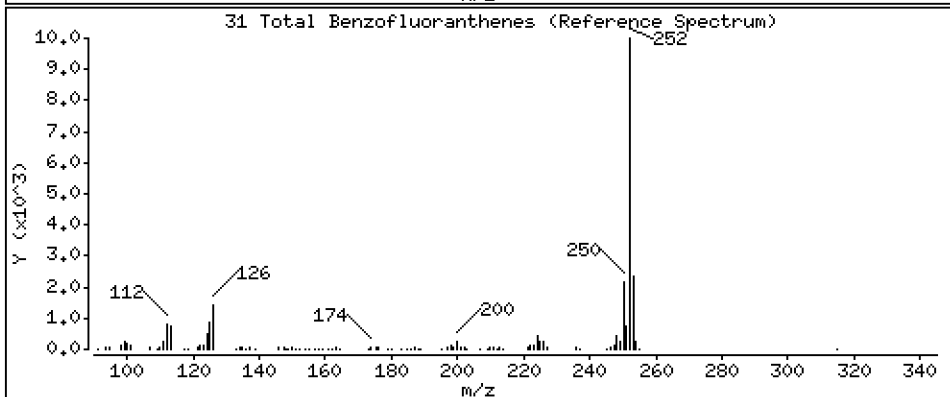
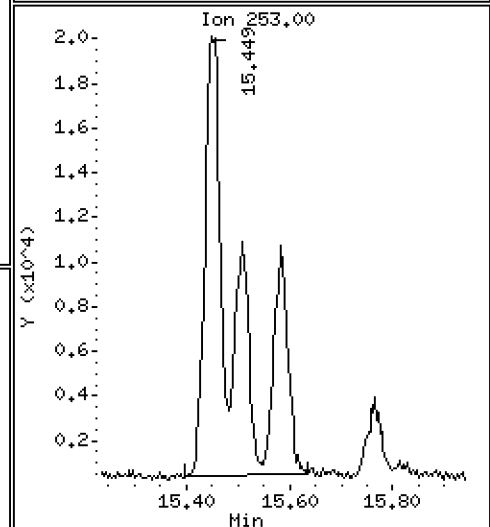
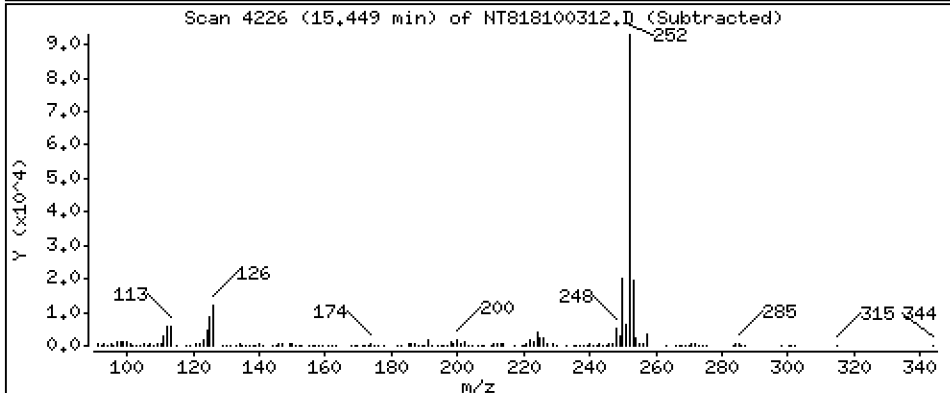
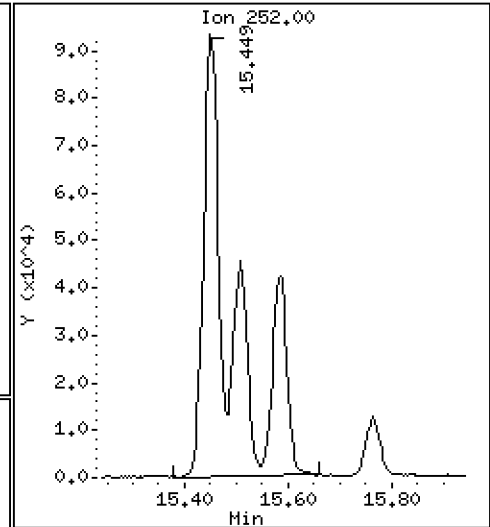
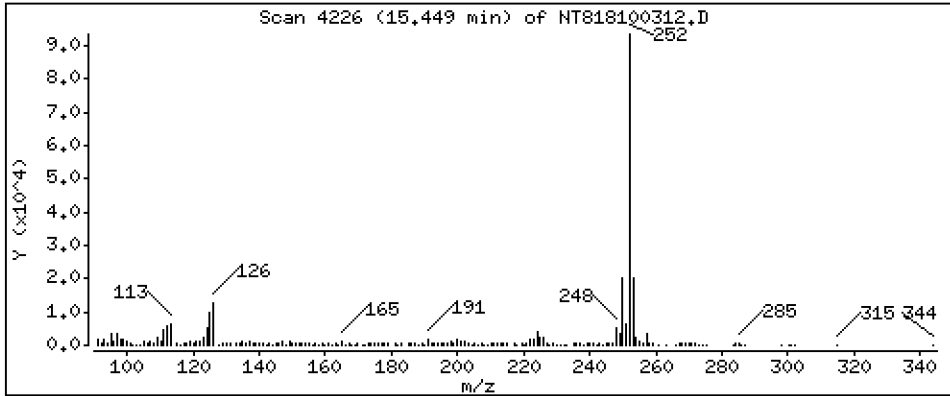
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 3,564 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

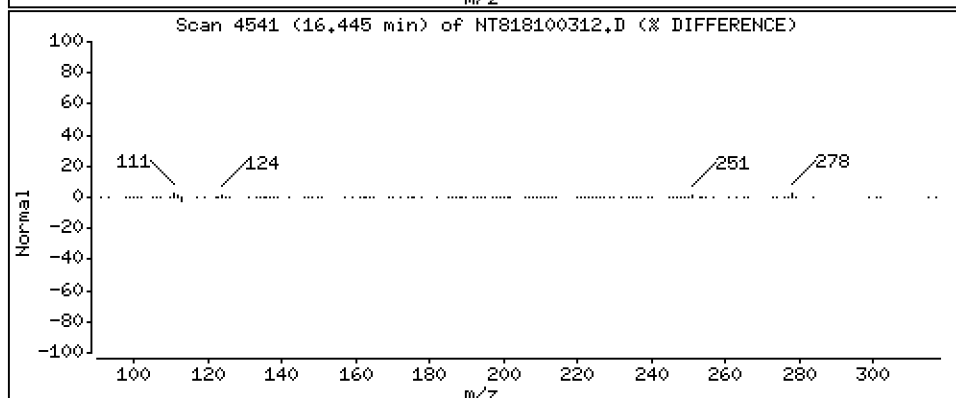
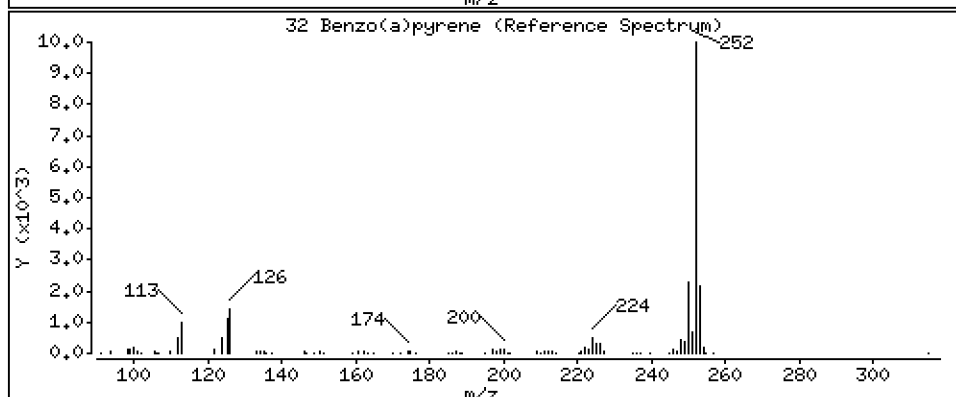
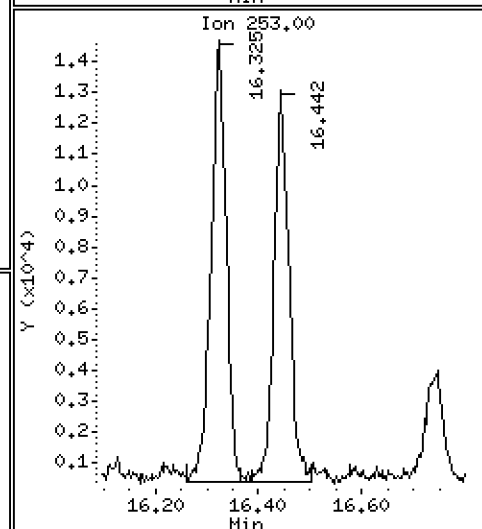
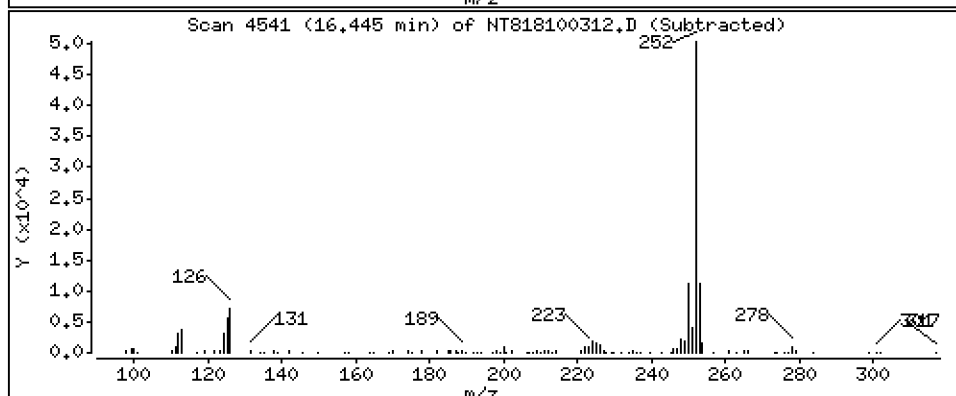
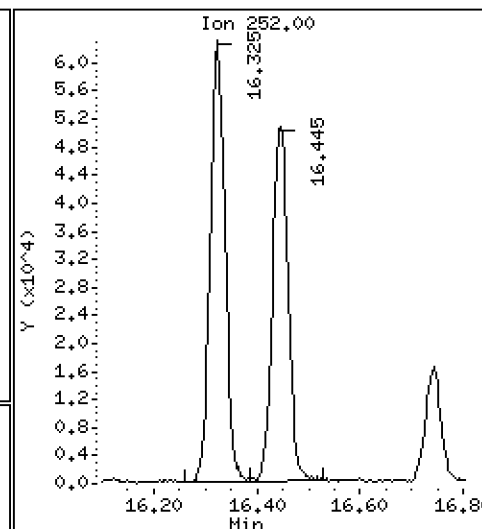
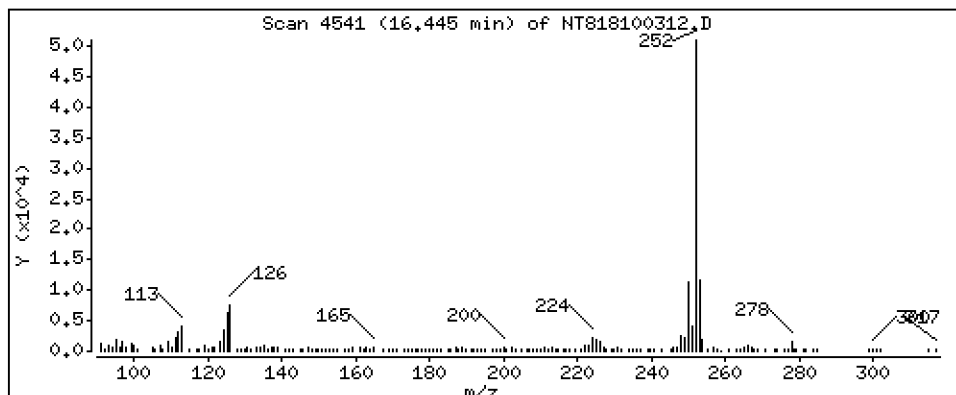
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

32 Benzo(a)pyrene

Concentration: 1.158 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 18I0285-04

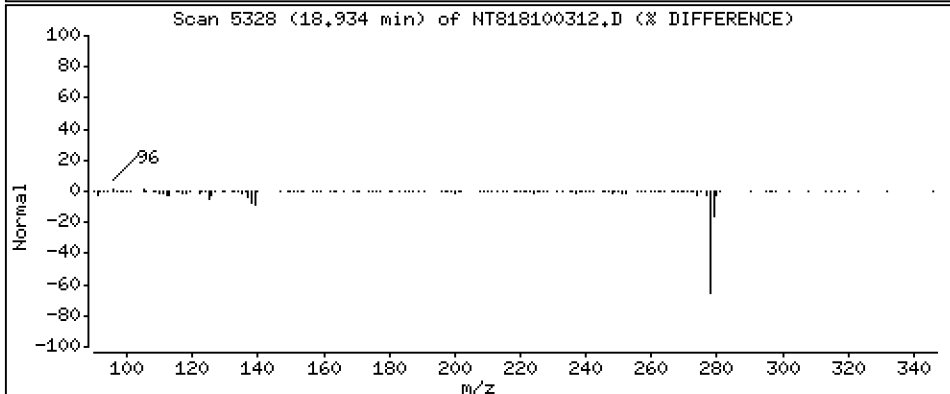
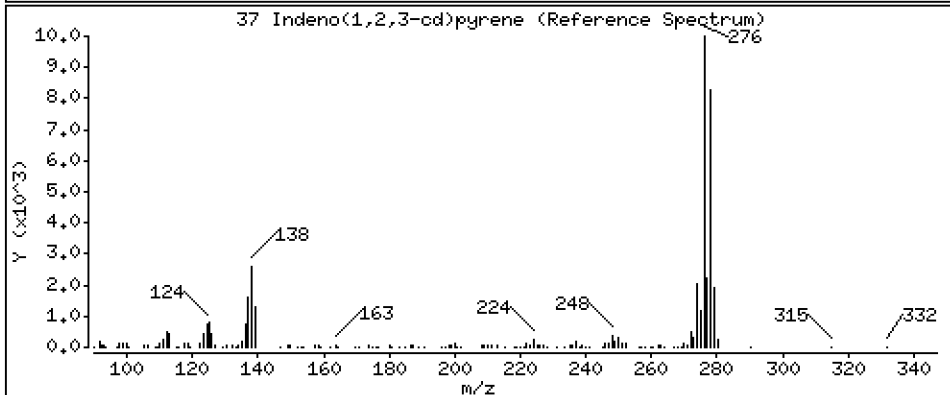
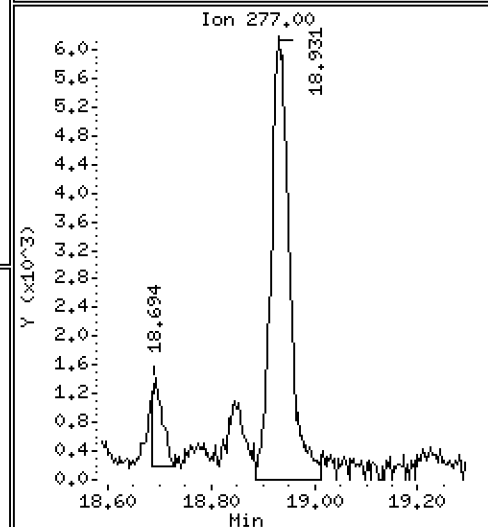
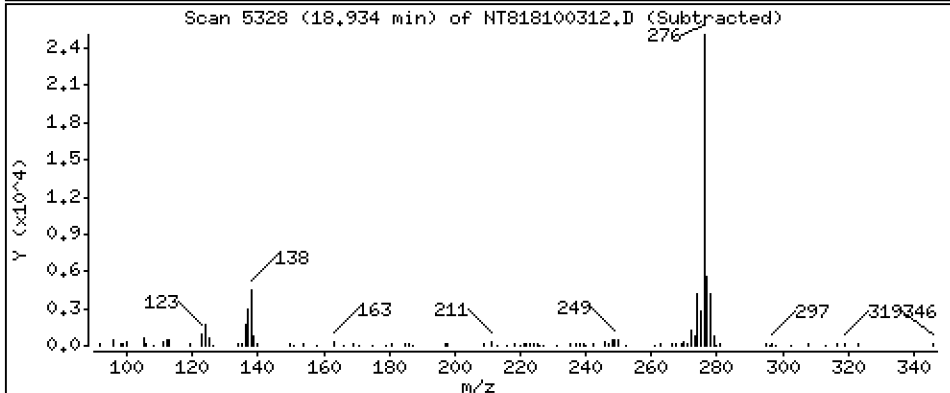
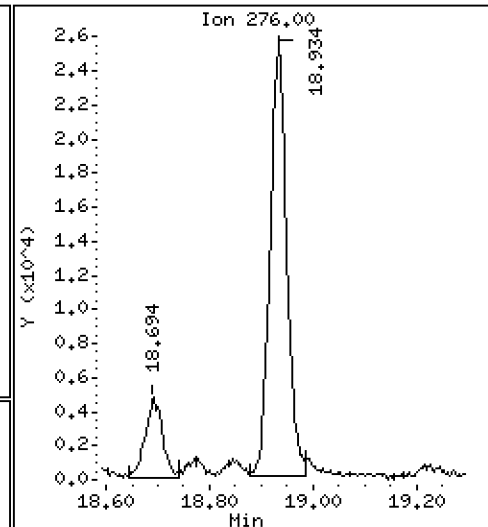
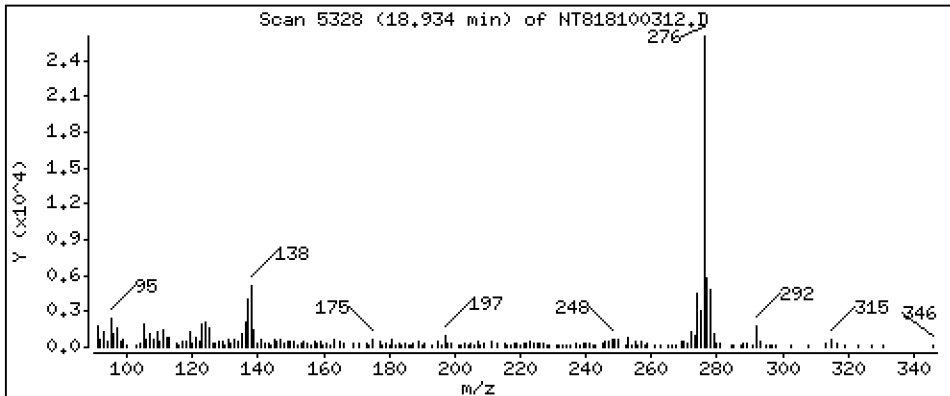
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 0,5838 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 18I0285-04

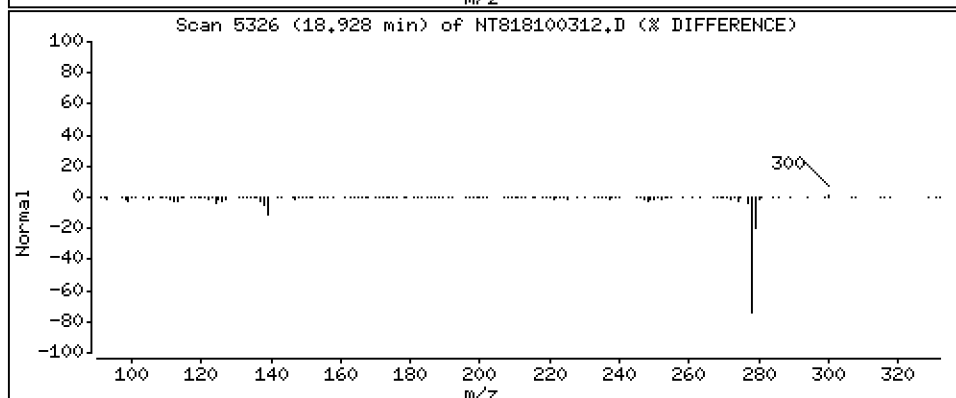
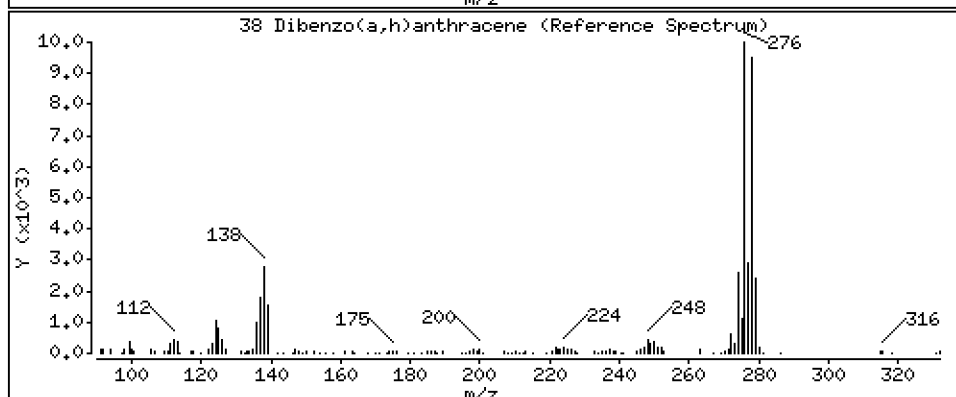
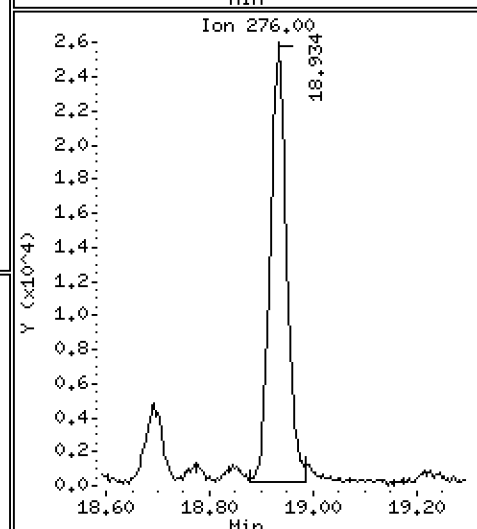
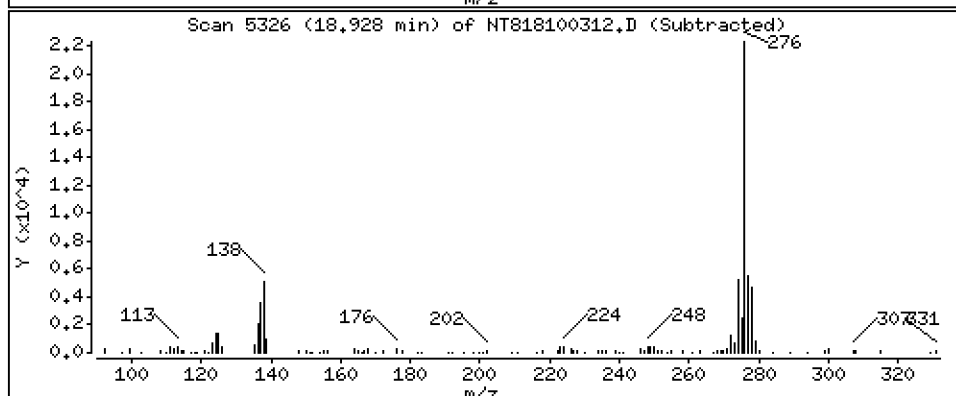
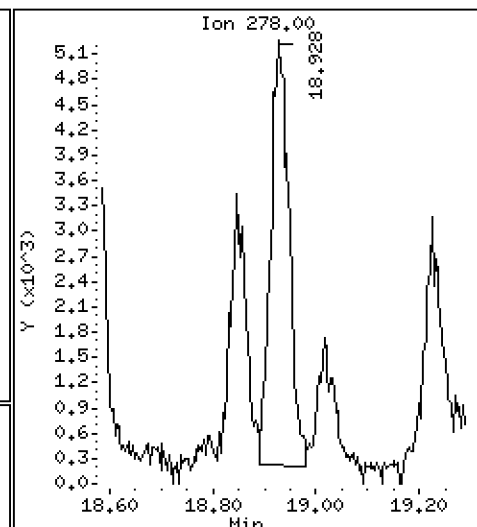
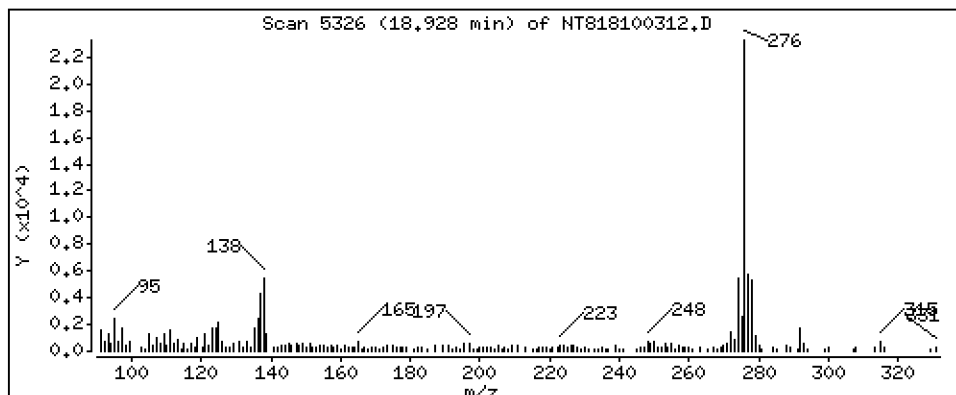
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 0,1520 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

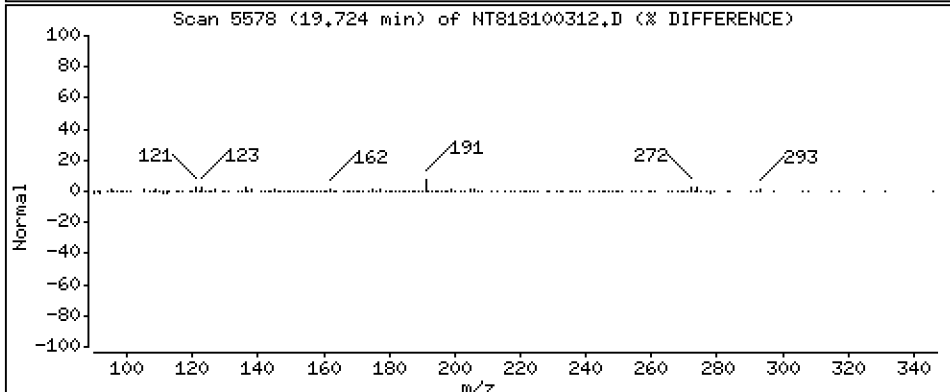
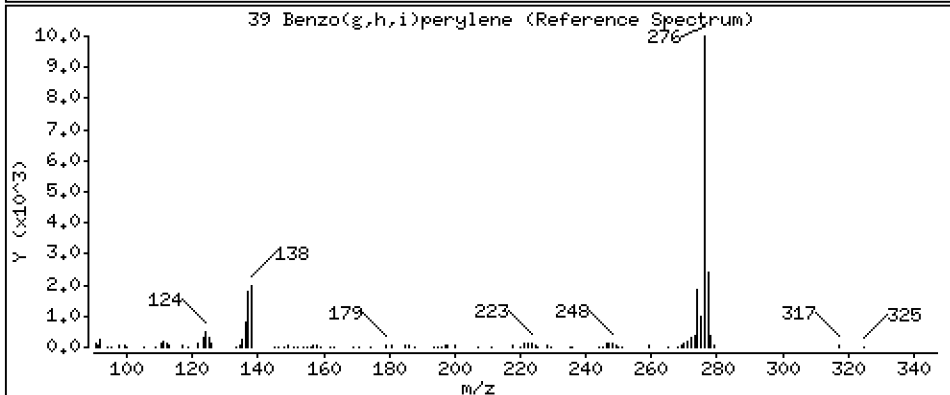
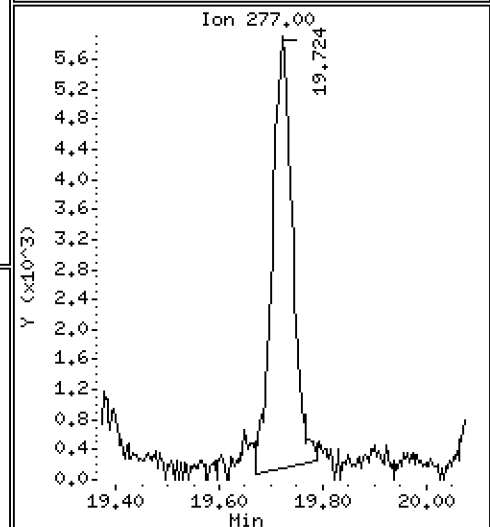
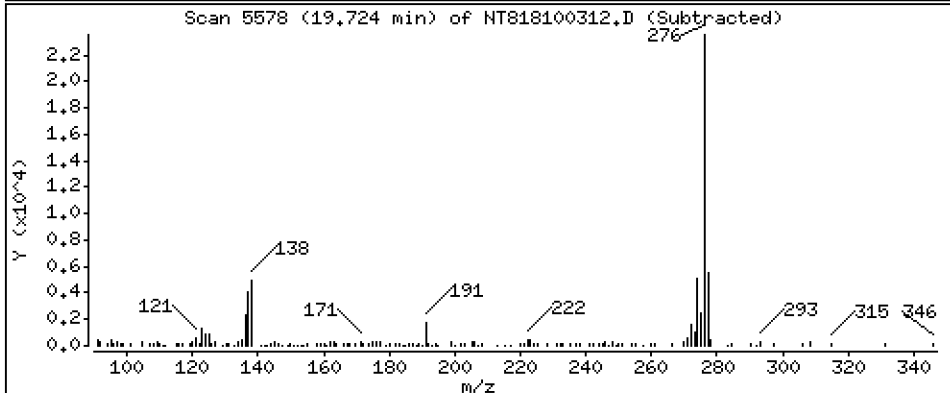
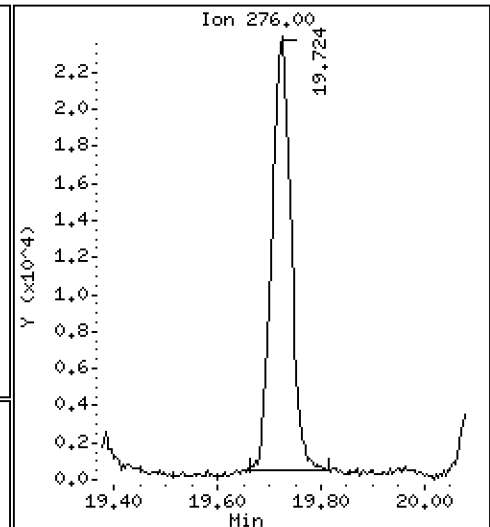
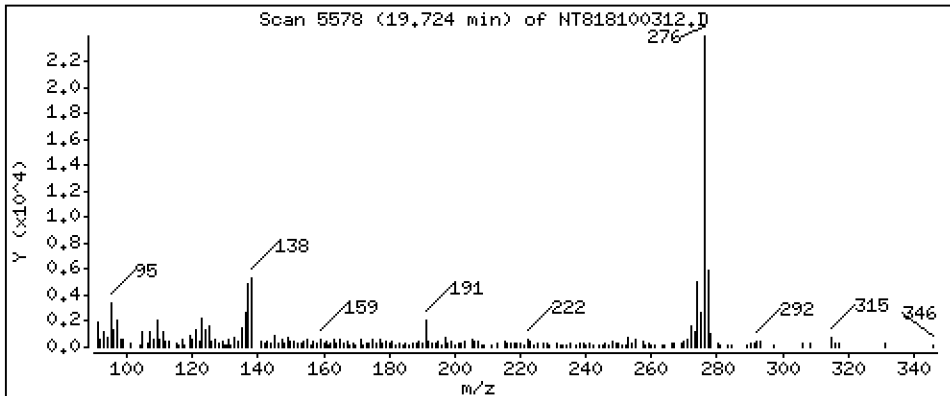
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 0,8002 ug/mL



Date : 03-OCT-2018 16:02

Client ID:

Instrument: nt8.i

Sample Info: 1810285-04

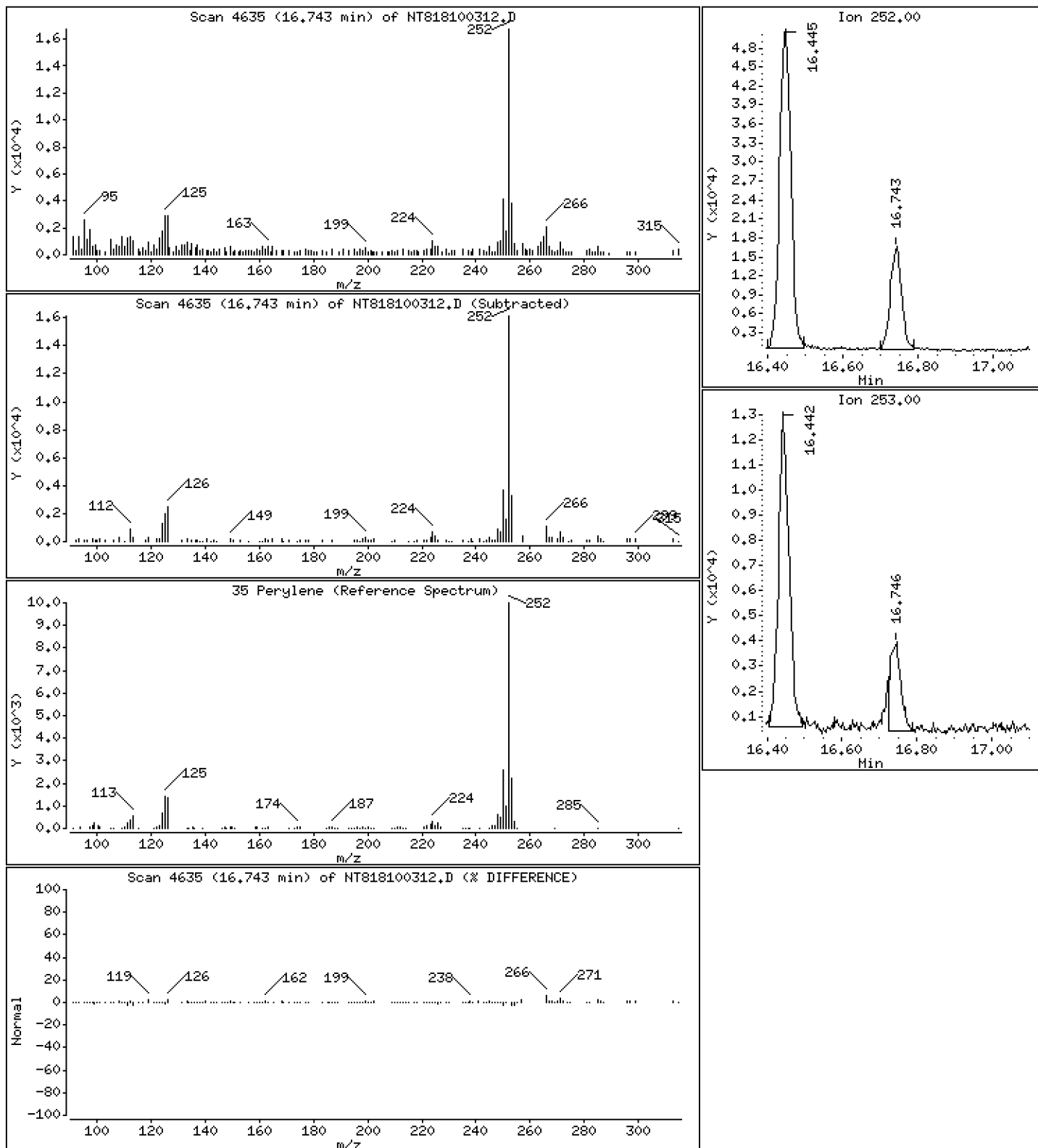
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 0,3505 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100312.D
 Lab Smp Id: 18I0285-04
 Inj Date : 03-OCT-2018 16:02
 Operator : JZ Inst ID: nt8.i
 Smp Info : 18I0285-04
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.306	4.319	(1.000)	154731	2.00000	
2 Naphthalene	128		4.338	4.347	(1.007)	268073	3.17883	3.179
\$ 3 2-Methylnaphthalene-d10	152		5.033	5.040	(1.169)	87787	1.60427	1.604
4 2-Methylnaphthalene	141		5.078	5.087	(1.179)	22100	0.46735	0.4674
5 1-methylnaphthalene	141		5.270	5.280	(1.224)	16947	0.34809	0.3481
9 Acenaphthylene	152		6.450	6.453	(0.983)	55622	0.65823	0.6582
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	79668	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.007)	47825	0.83960	0.8396
12 Dibenzofuran	168		6.757	6.763	(1.029)	64196	0.81356	0.8136
14 Fluorene	166		7.228	7.231	(1.101)	47448	0.72601	0.7260
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	158720	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	272605	3.18468	3.185
17 Anthracene	178		8.635	8.638	(1.008)	91460	1.09133	1.091
22 Fluoranthene	202		10.213	10.209	(1.193)	853501	8.57602	8.576
\$ 21 Fluoranthene-d10	212		10.175	10.178	(1.188)	192710	1.92253	1.923
23 Pyrene	202		10.658	10.655	(0.819)	674561	6.66366	6.664
24 Benzo(a)anthracene	228		12.894	12.897	(0.991)	139069	1.42074	1.421
* 25 Chrysene-d12	240		13.011	13.014	(1.000)	170131	2.00000	
27 Chrysene	228		13.081	13.080	(1.005)	287483	3.10738	3.107
28 Benzo(b)fluoranthene	252		15.449	15.458	(0.927)	188118	1.82333	1.823
29 Benzo(k)fluoranthene	252		15.509	15.515	(0.930)	90834	0.88919	0.8892
30 Benzo(j)fluoranthene	252		15.585	15.591	(0.935)	84469	0.87234	0.8723
31 Total Benzofluoranthenes	252		15.449	15.591	(0.927)	356849	3.56361	3.564 (M)
32 Benzo(a)pyrene	252		16.445	16.451	(0.987)	107730	1.15752	1.158
* 33 Perylene-d12	264		16.669	16.672	(1.000)	165447	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.933	18.943	(1.136)	57234	0.58375	0.5838
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.851	18.861	(1.131)	163061	2.19699	2.197
38 Dibenzo(a,h)anthracene	278		18.927	18.936	(1.135)	12549	0.15197	0.1520
39 Benzo(g,h,i)perylene	276		19.724	19.727	(1.183)	61040	0.80019	0.8002
35 Perylene	252		16.742	16.745	(1.004)	33650	0.35048	0.3505

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100312.D Calibration Time: 11:20
 Lab Smp Id: 18I0285-04
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	154731	17.33
10 Acenaphthene-d10	72272	36136	144544	79668	10.23
15 Phenanthrene-d10	156058	78029	312116	158720	1.71
25 Chrysene-d12	174389	87195	348778	170131	-2.44
33 Perylene-d12	150701	75351	301402	165447	9.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.29
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.04
25 Chrysene-d12	13.01	12.51	13.51	13.01	-0.02
33 Perylene-d12	16.67	16.17	17.17	16.67	-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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100312.D

Lab ID: 18I0285-04
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 16:02

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.927	0.935	-0.0084	Total Benzofluoranthenes

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

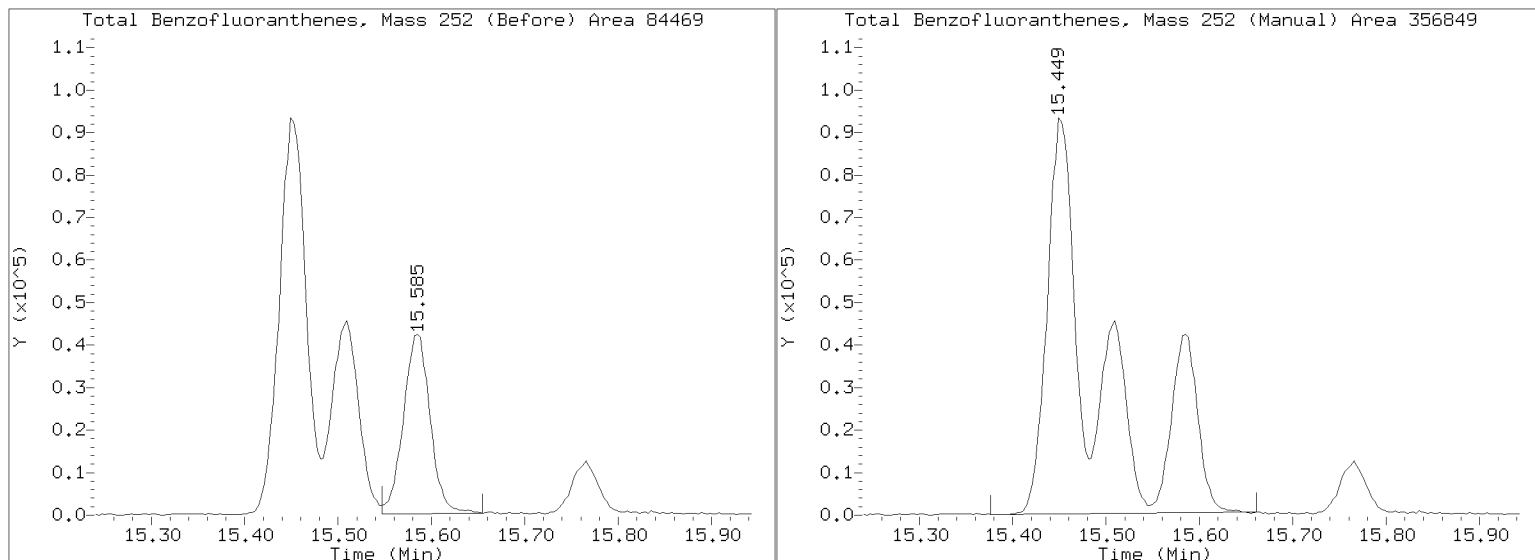
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100312.D

Injection Date: 03-OCT-2018 16:02

Lab ID:18I0285-04 Client ID:

Report Date: 10/09/2018 16:38





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270D-SIM
Polynuclear Aromatic Hydrocarbons

Laboratory: Analytical Resources, Inc.
 Client: Anchor OEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 1810285-05 SDG: 1810285
 Sampled: 09/18/18 15:10 Prepared: 09/26/18 15:45 File ID: NT818100313.D
 % Solids: 79.59 Preparation: EPA 3546 (Microwave) Analyzed: 10/03/18 16:29
 Batch: BGI0708 Sequence: SGJ0048 Initial/Final: 13.02 g Wet / 0.5 mL
 Instrument: NT8 Column: RXI-17Sil ms Calibration: BH00016
 Cleanups: Silica Gel, Sulfur

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	131		1.23	4.83
91-57-6	2-Methylnaphthalene	1	10.6		1.07	4.83
90-12-0	1-Methylnaphthalene	1	7.08		0.39	4.83
208-96-8	Acenaphthylene	1	14.5		1.05	4.83
83-32-9	Acenaphthene	1	9.21		0.55	4.83
86-73-7	Fluorene	1	9.87		0.61	4.83
85-01-8	Phenanthrene	1	58.8		0.69	4.83
120-12-7	Anthracene	1	15.8		0.84	4.83
206-44-0	Fluoranthene	1	57.9		0.45	4.83
129-00-0	Pyrene	1	67.2		0.60	4.83
56-55-3	Benzo(a)anthracene	1	13.3		0.80	4.83
218-01-9	Chrysene	1	27.5		1.02	4.83
205-99-2	Benzo(b)fluoranthene	1	10.4		1.32	4.83
207-08-9	Benzo(k)fluoranthene	1	5.88		0.73	4.83
205-82-3	Benzo(j)fluoranthene	1	5.79		0.66	4.83
50-32-8	Benzo(a)pyrene	1	12.3		0.59	4.83
193-39-5	Indeno(1,2,3-cd)pyrene	1	6.73		1.01	4.83
53-70-3	Dibenzo(a,h)anthracene	1	4.83	U	0.86	4.83
191-24-2	Benzo(g,h,i)perylene	1	15.9		1.03	4.83
	Benzo(a)fluoranthenes, Total	1	22.6		2.90	9.65

SURROGATES	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	144.76	87.7	60.6	32 - 120	
Dibenzo[a,h]anthracene-d14	144.76	138	95.6	21 - 133	
Fluoranthene-d10	144.76	104	72.0	36 - 134	

Data File: \\target\share\chem3\nt8.1\20181003.B\NT818100313.D

Date: 03-OCT-2018 16:29

Client ID:

Sample Info: 1810285-05

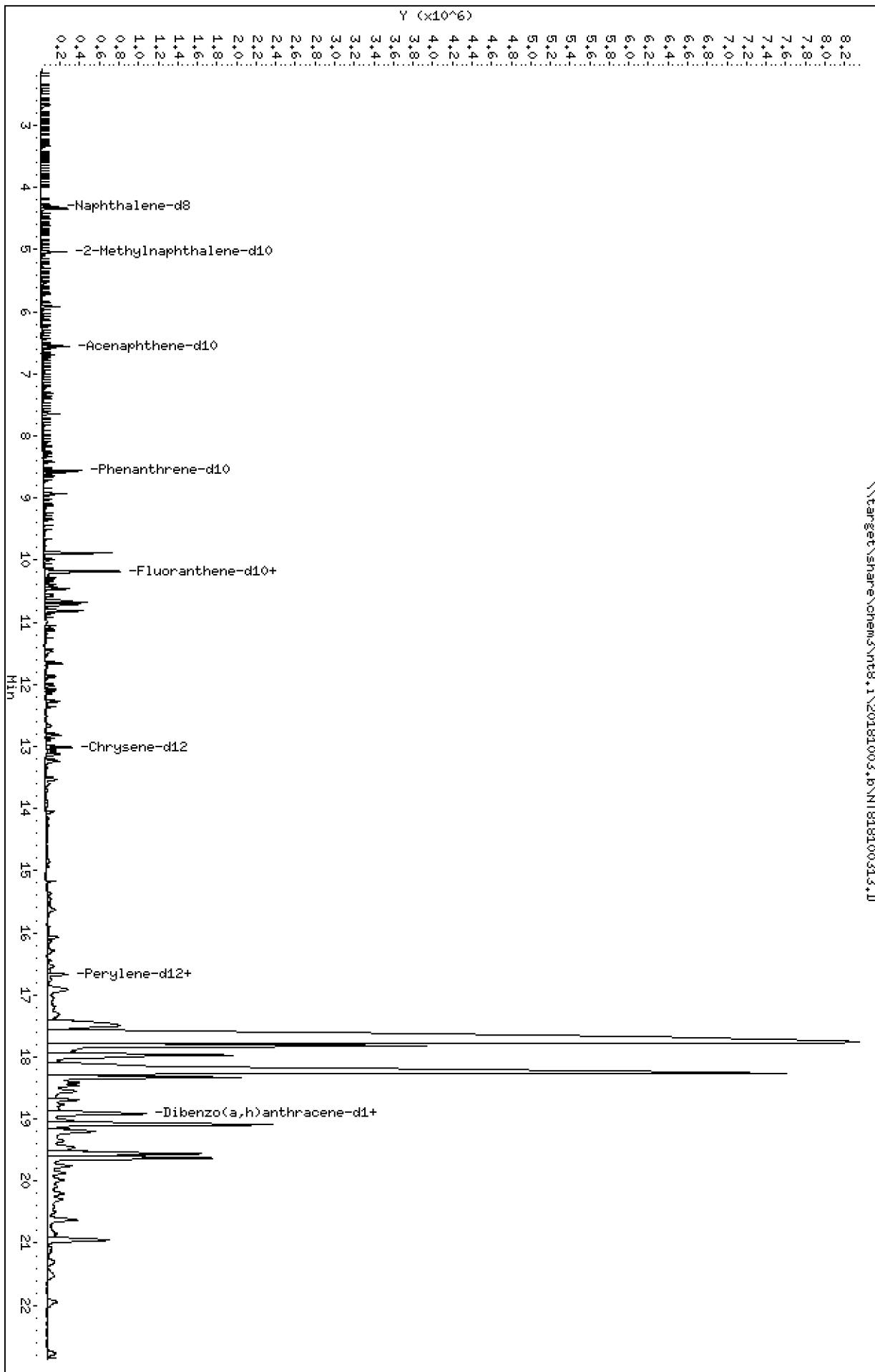
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

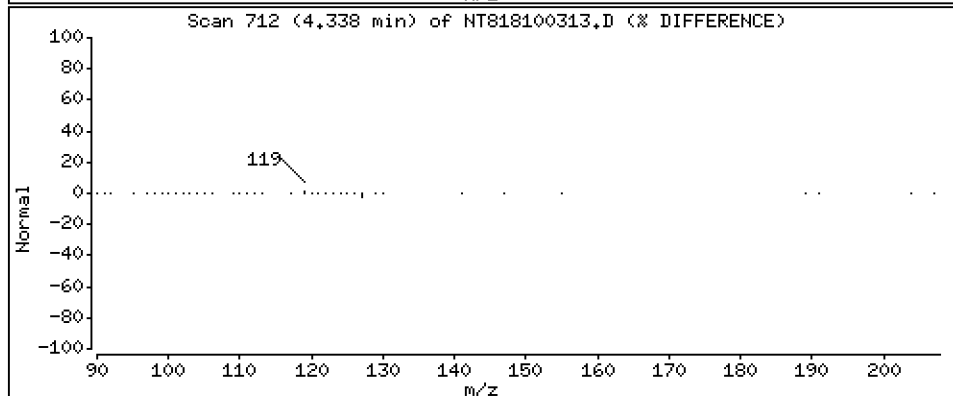
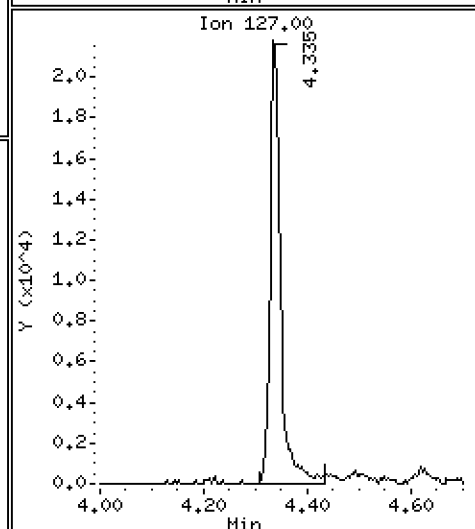
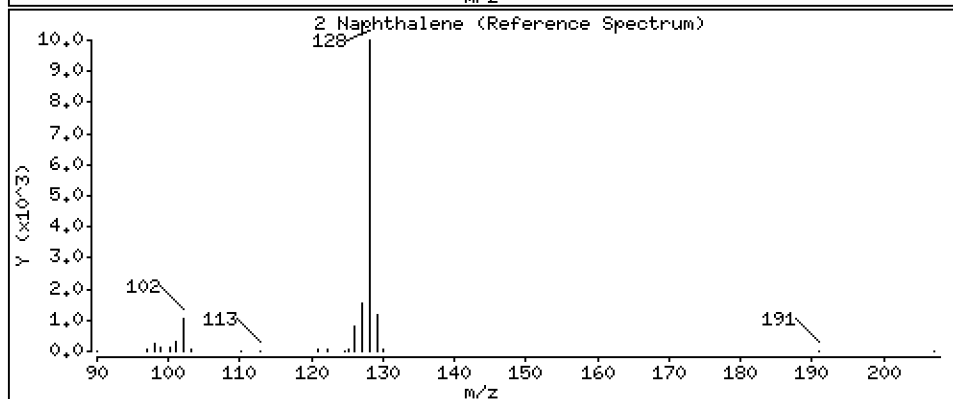
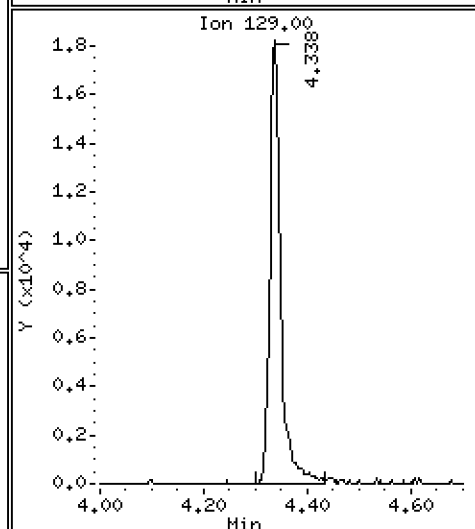
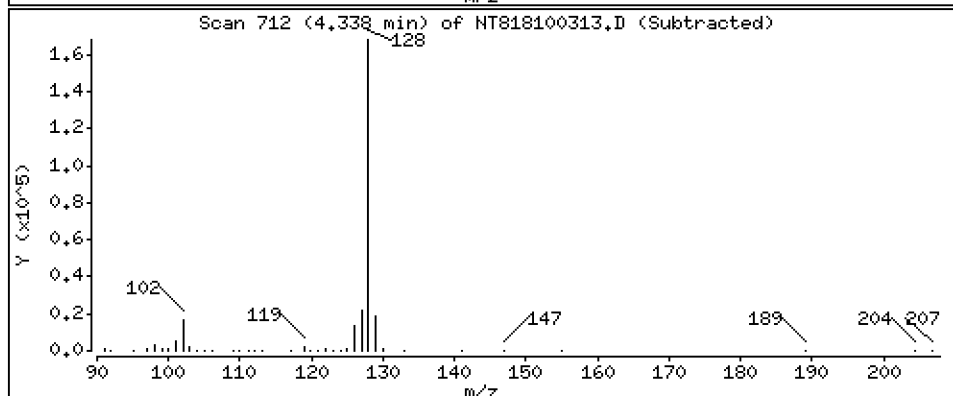
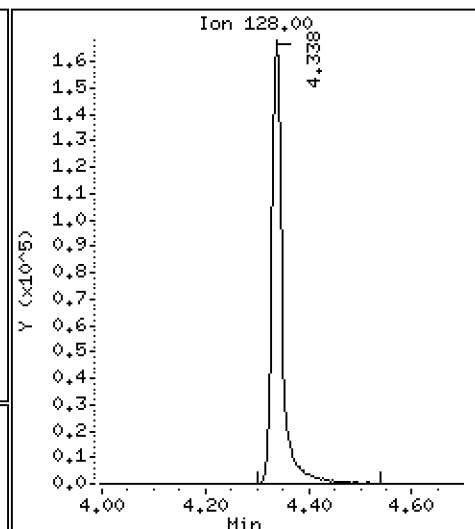
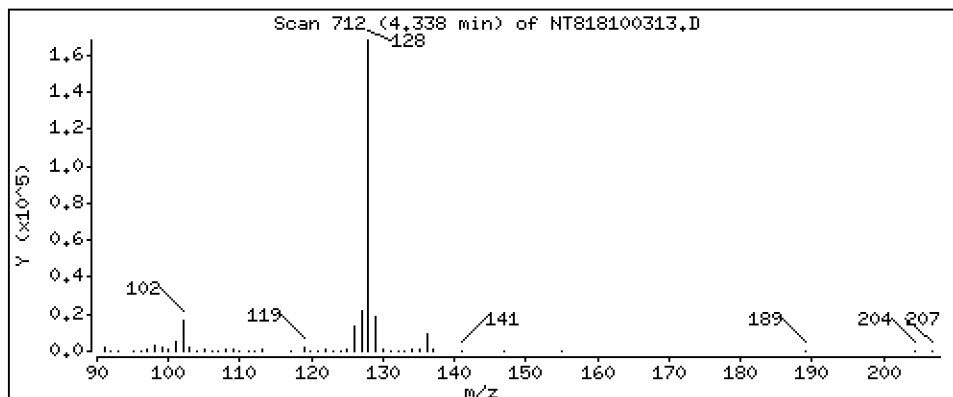
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

2 Naphthalene

Concentration: 2,722 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

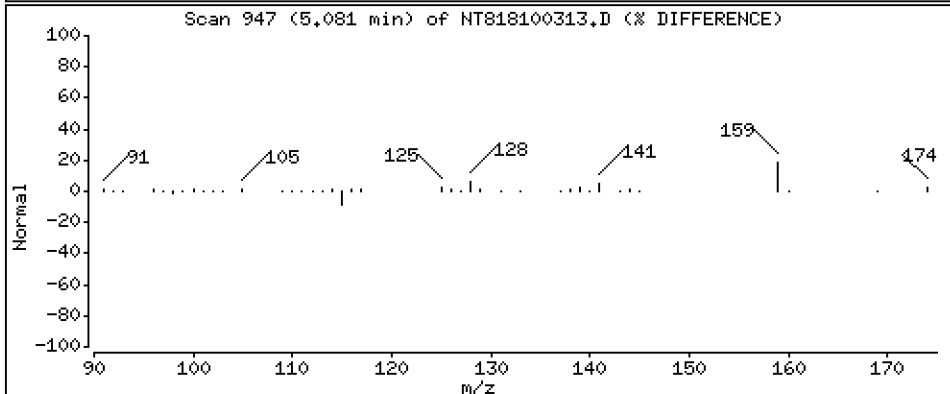
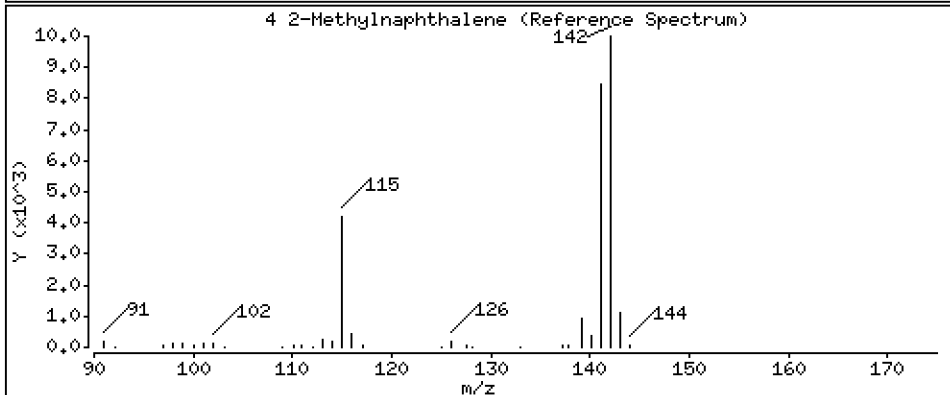
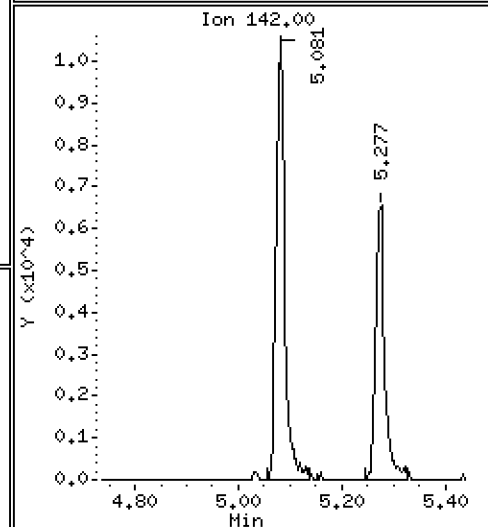
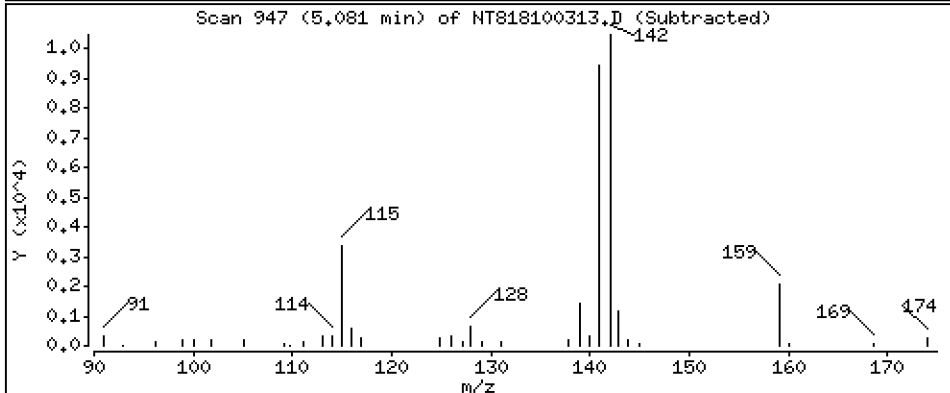
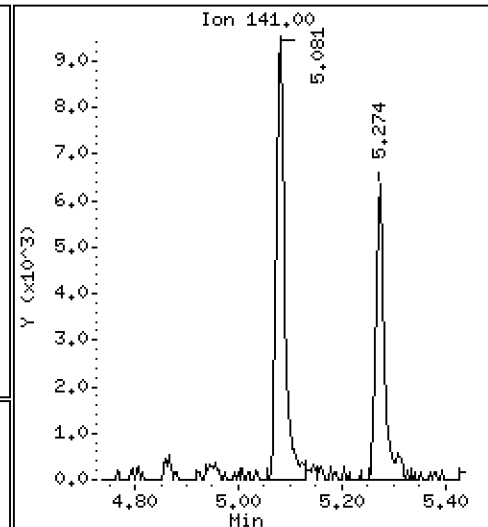
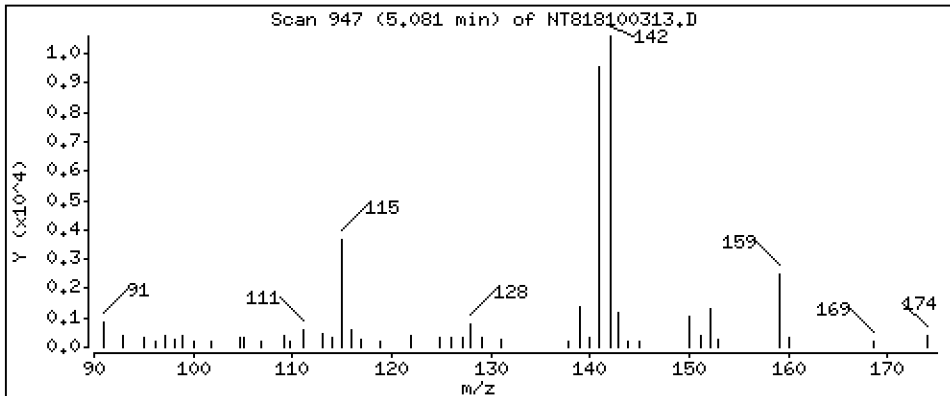
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

4 2-Methylnaphthalene

Concentration: 0,2200 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

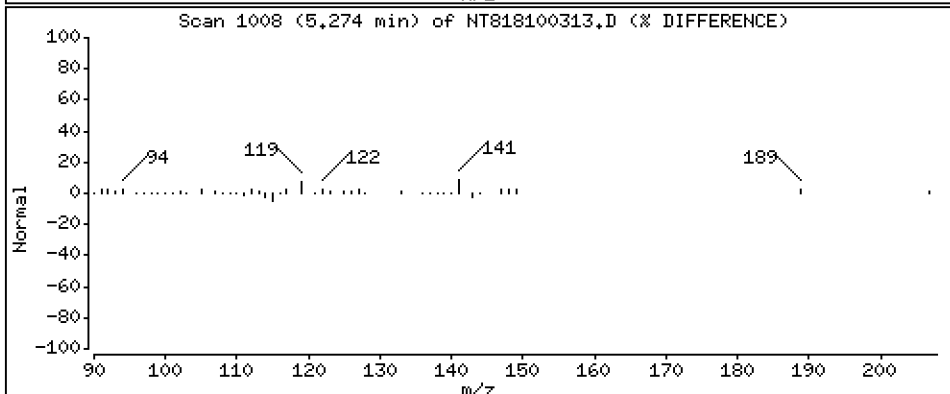
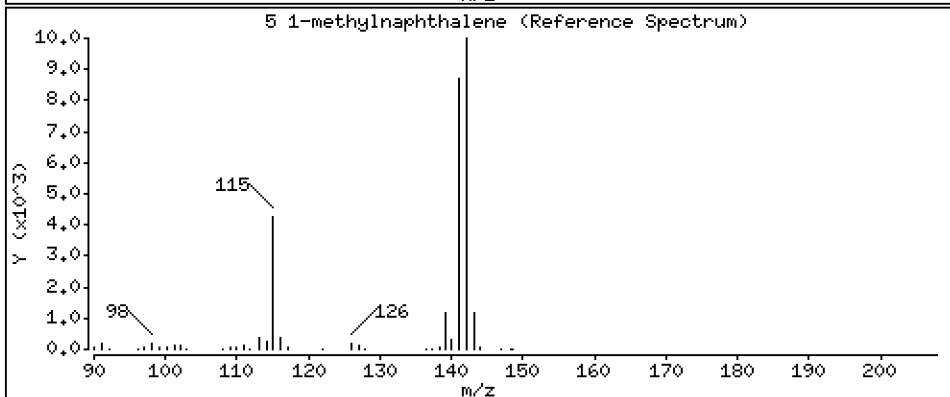
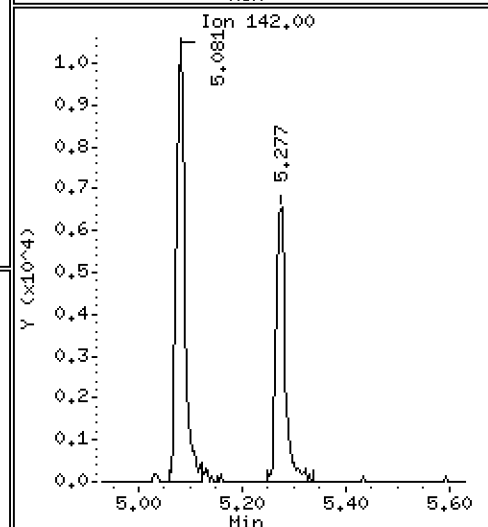
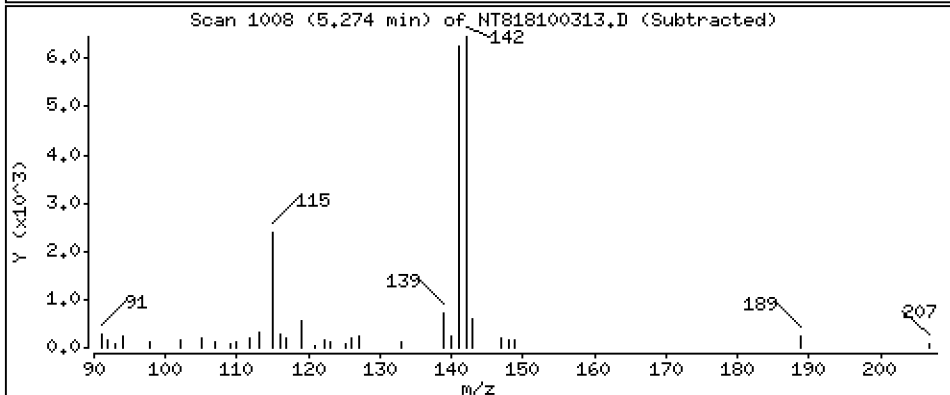
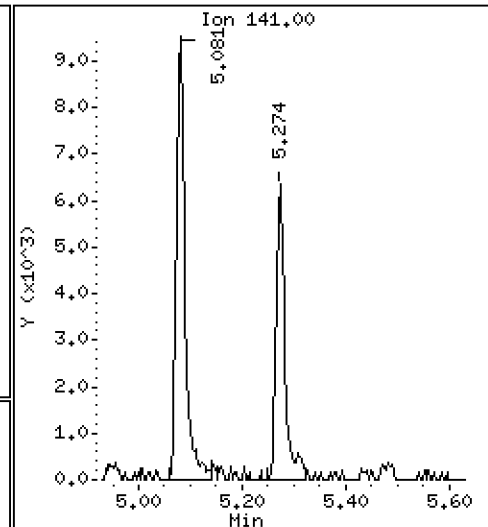
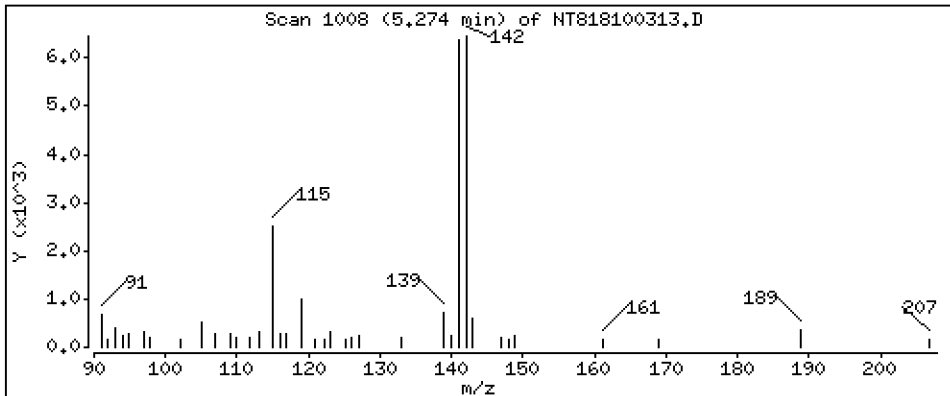
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

5 1-methylnaphthalene

Concentration: 0.1468 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

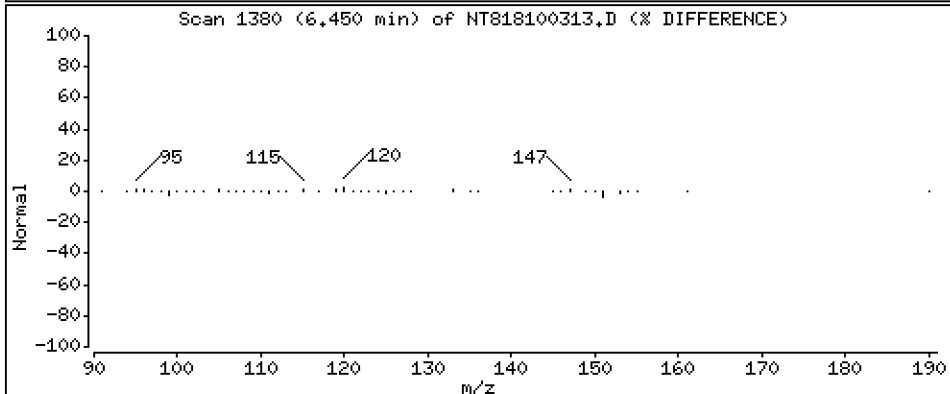
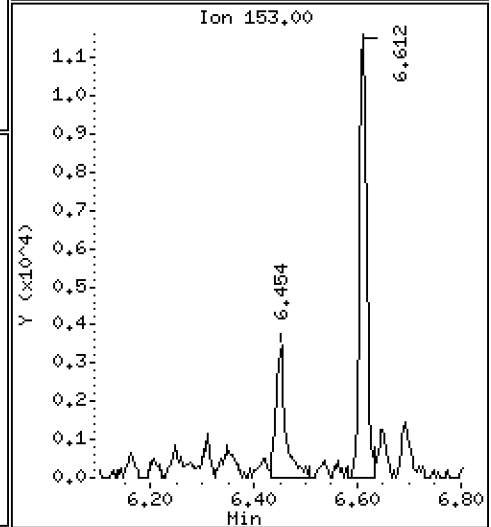
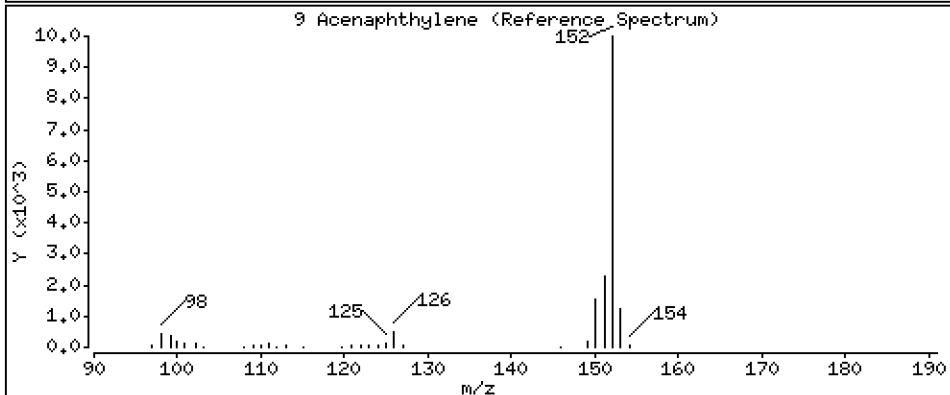
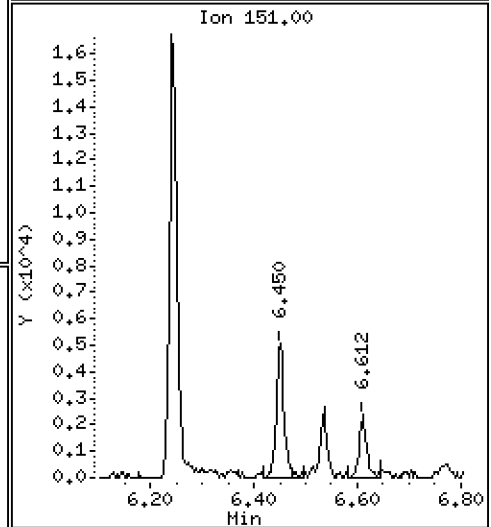
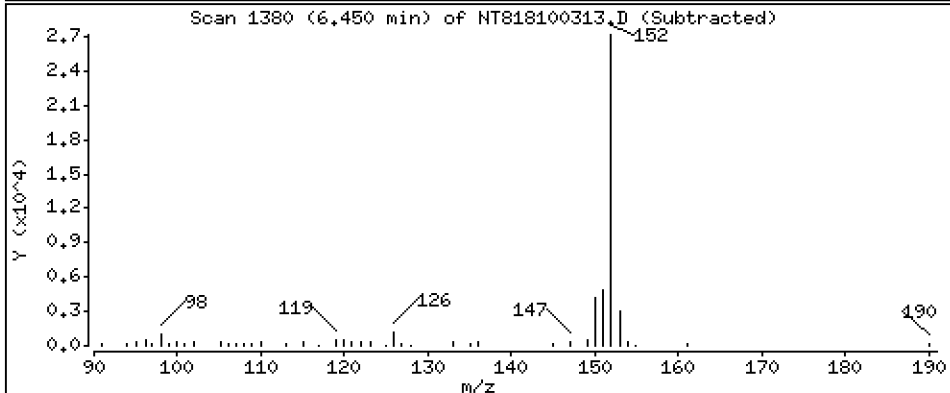
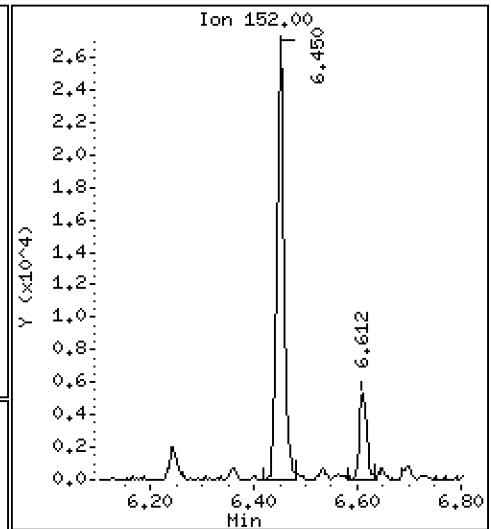
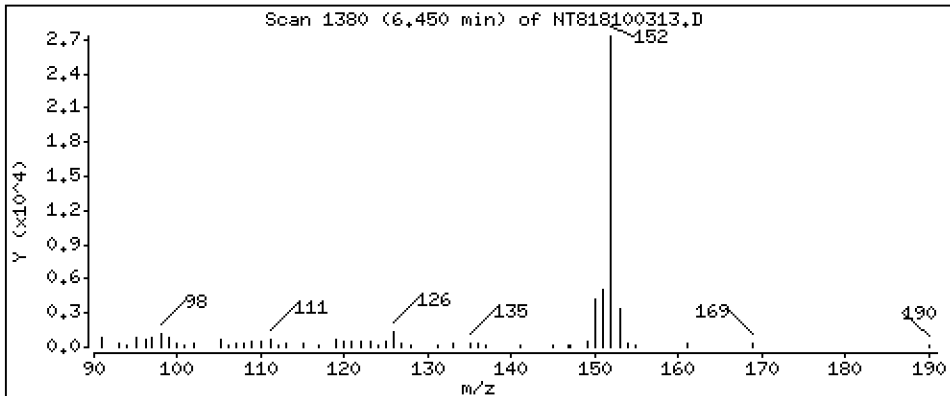
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

9 Acenaphthylene

Concentration: 0.3003 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

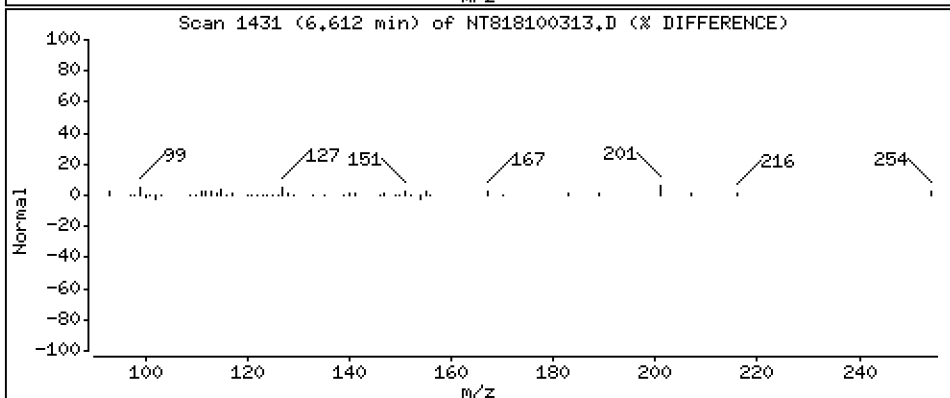
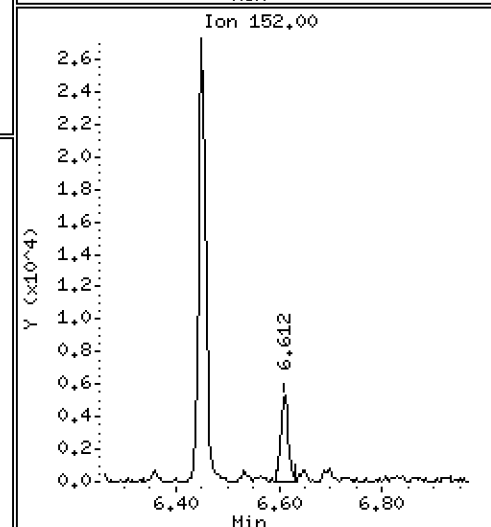
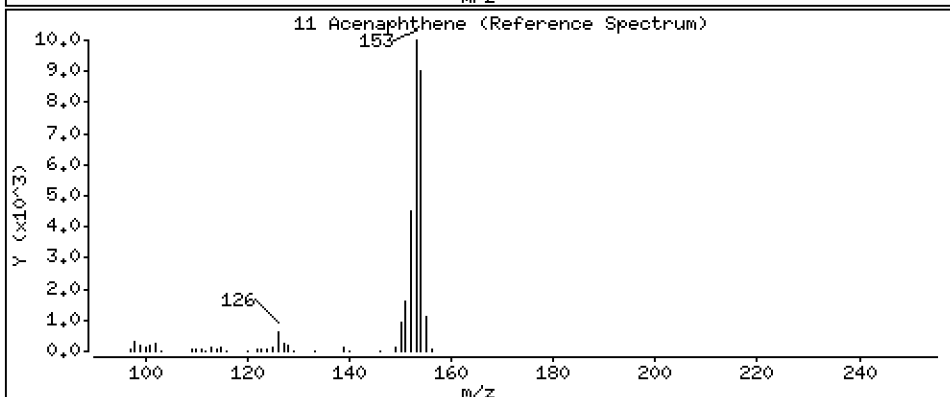
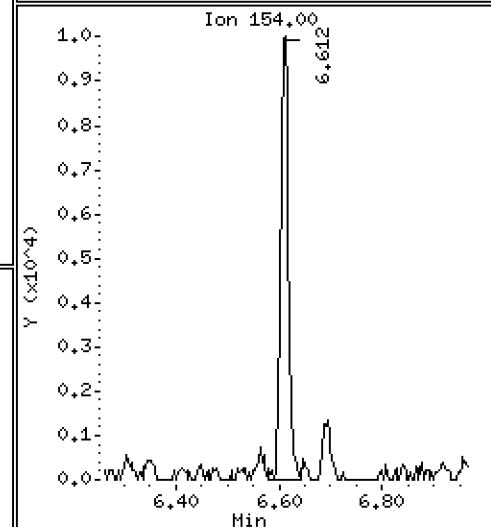
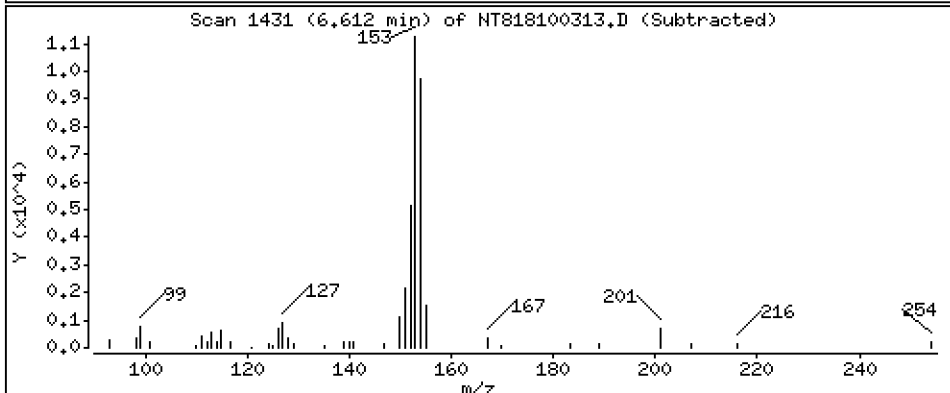
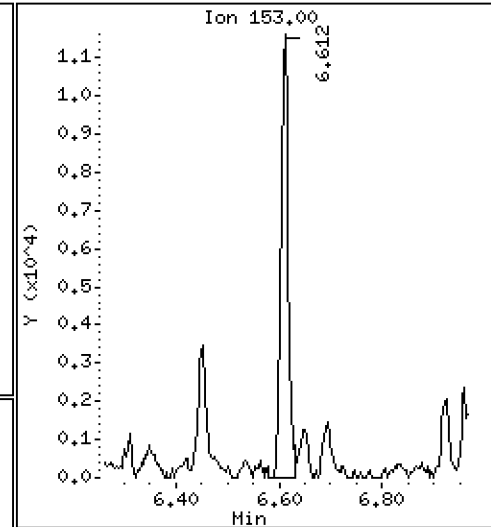
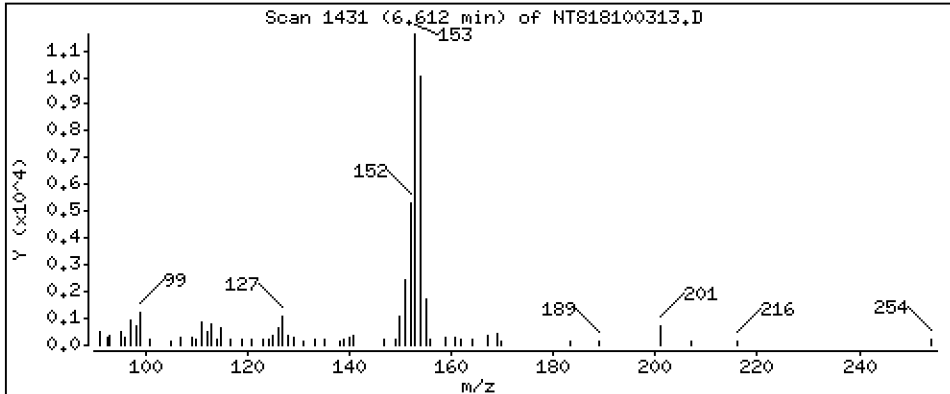
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

Concentration: 0.1908 ug/mL

11 Acenaphthene



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

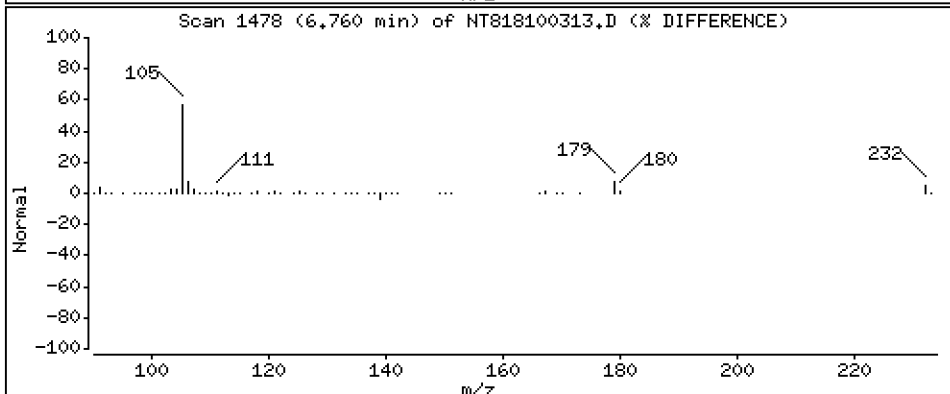
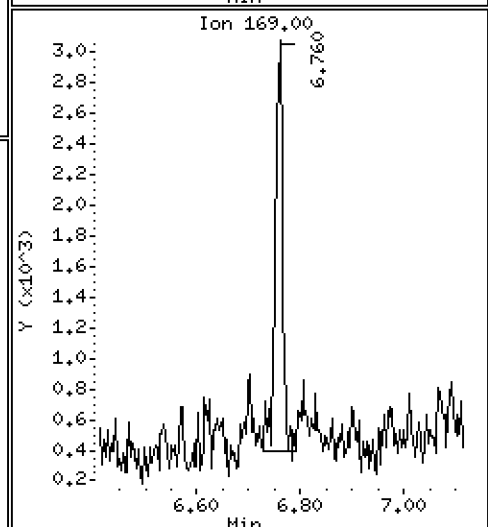
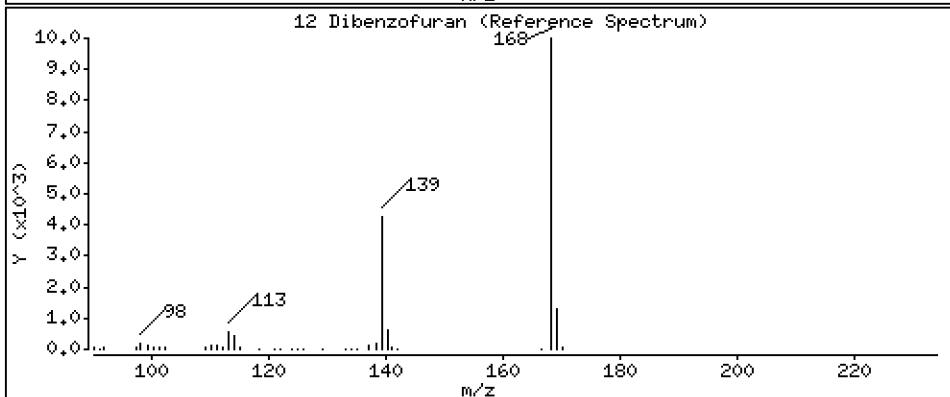
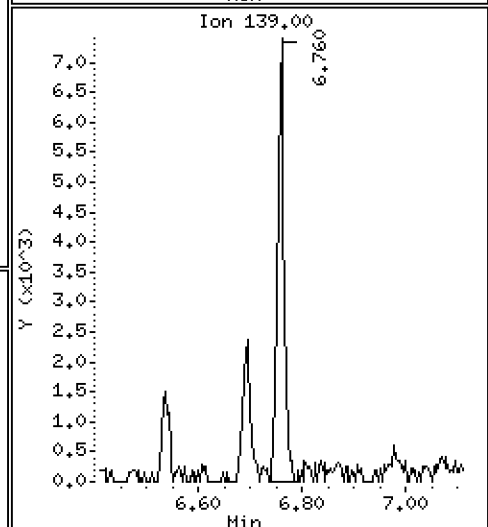
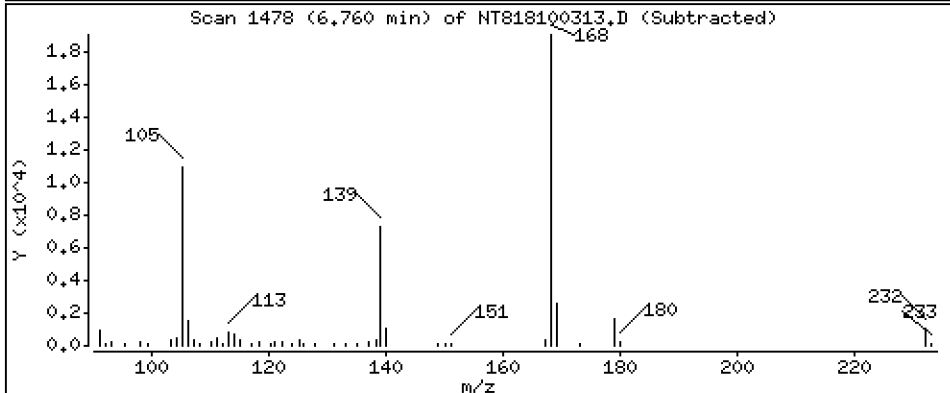
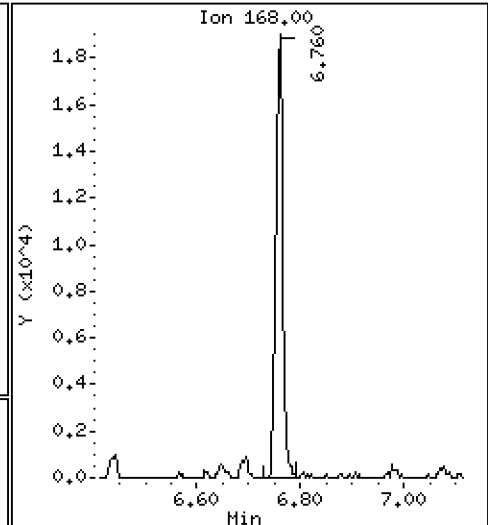
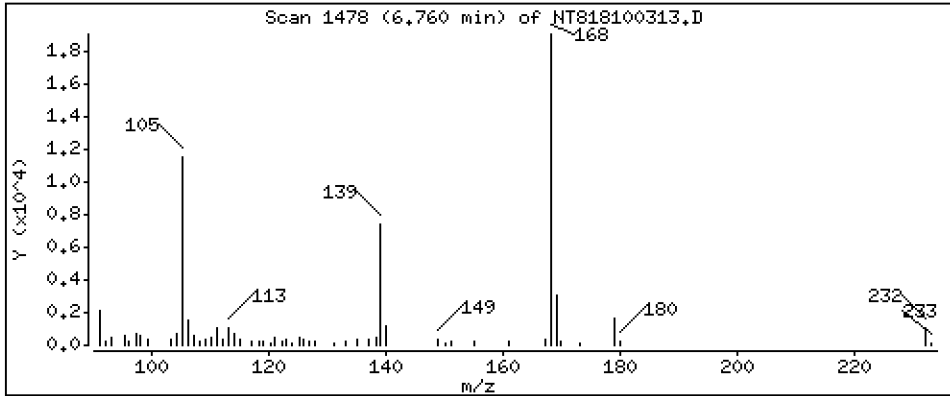
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

12 Dibenzofuran

Concentration: 0.2142 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

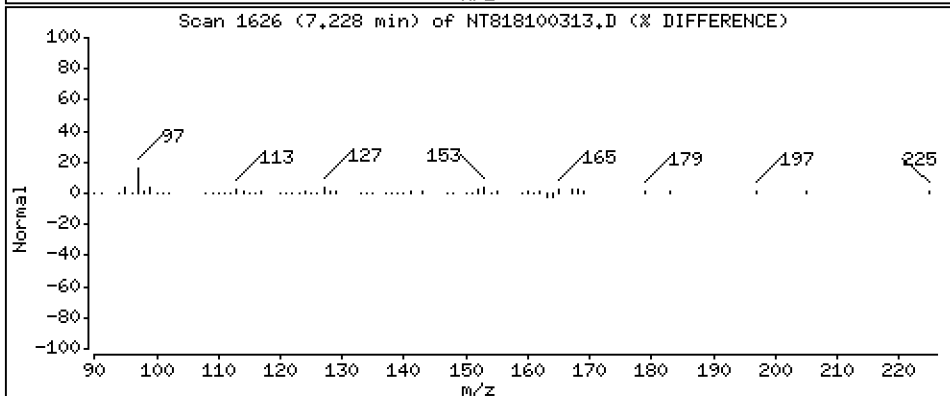
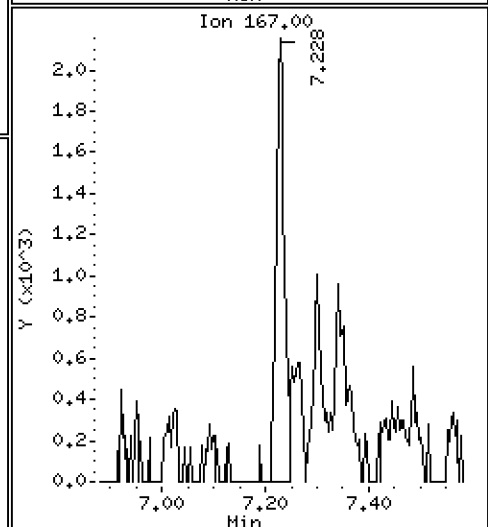
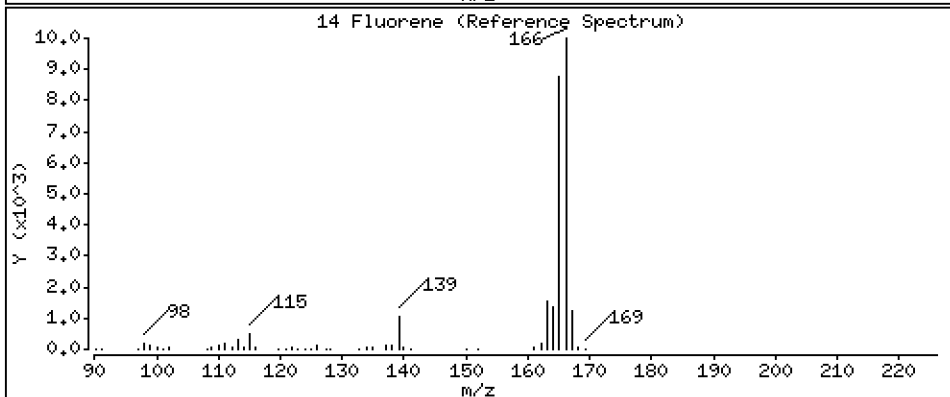
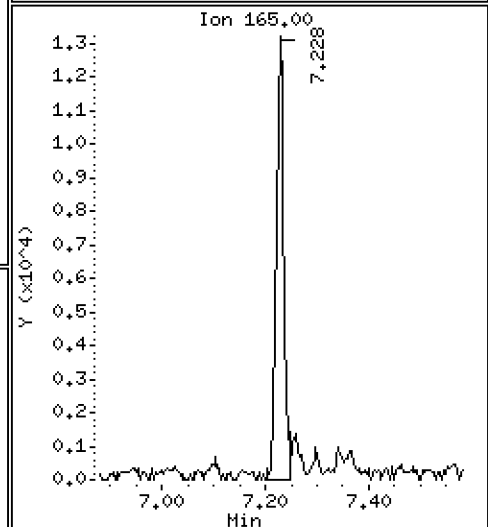
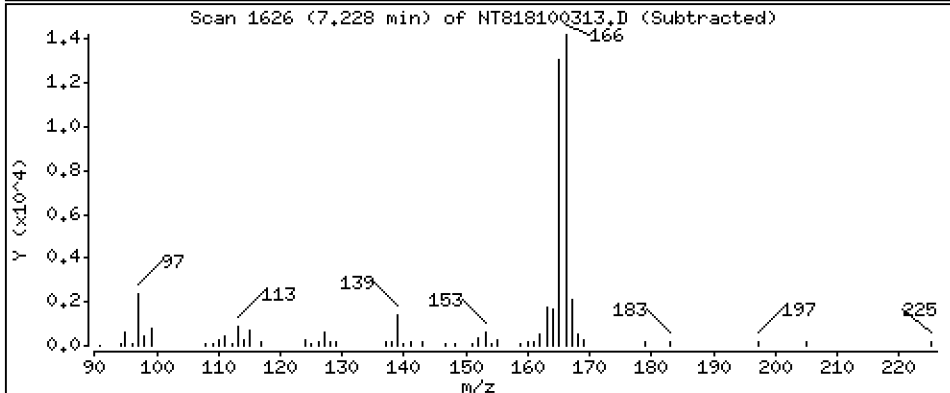
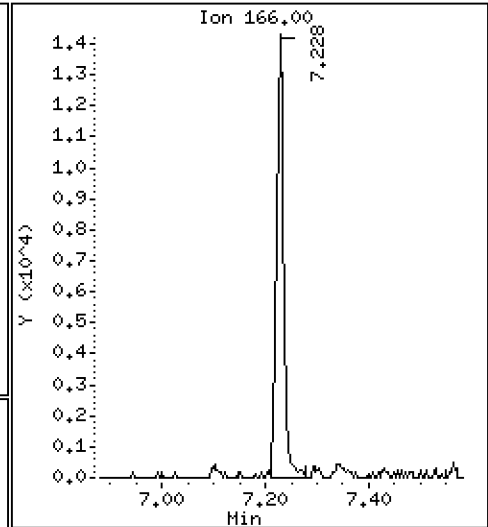
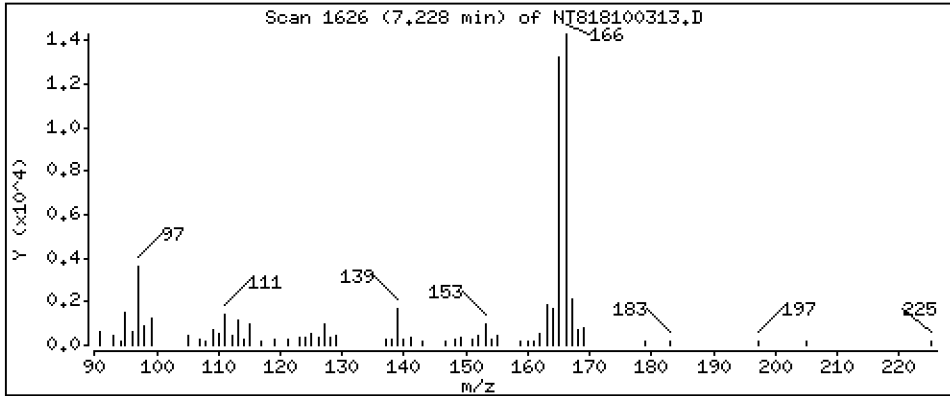
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

14 Fluorene

Concentration: 0,2045 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

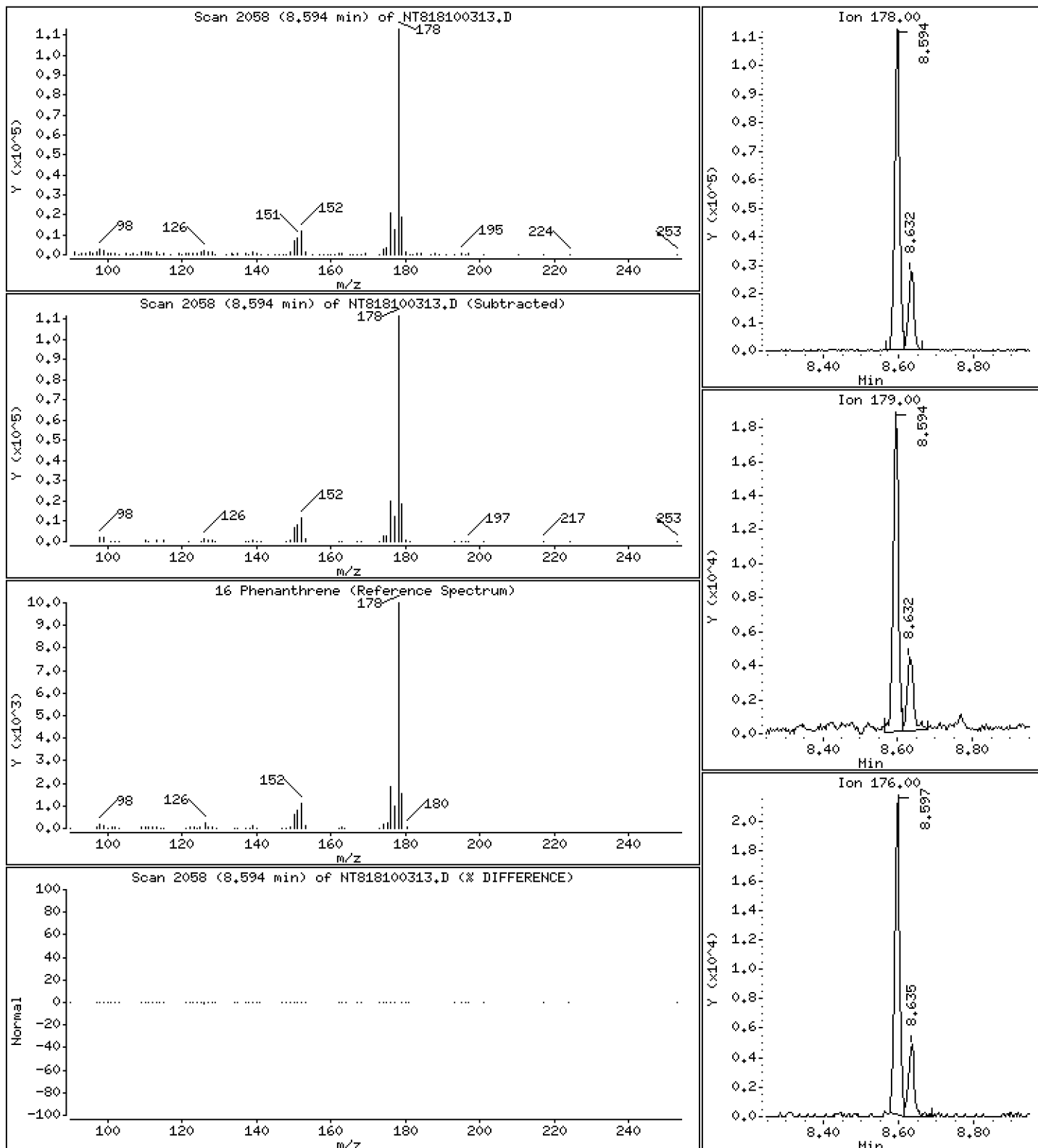
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

16 Phenanthrene

Concentration: 1,218 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

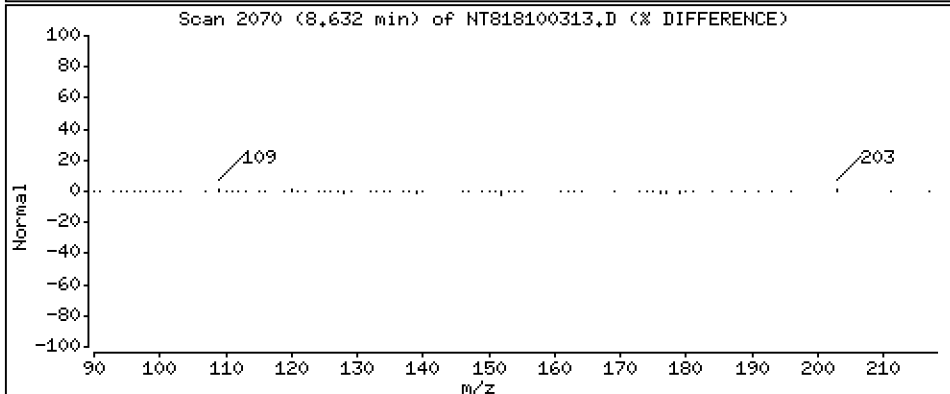
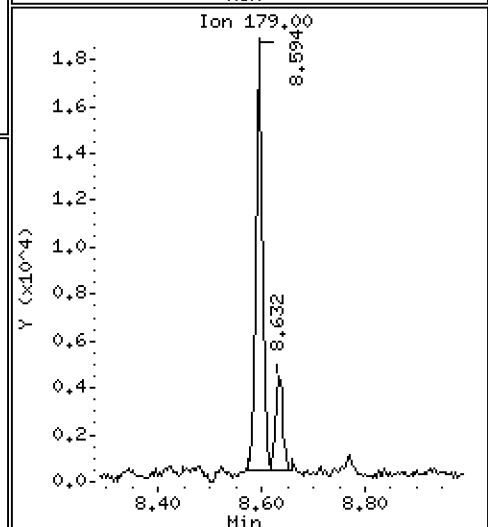
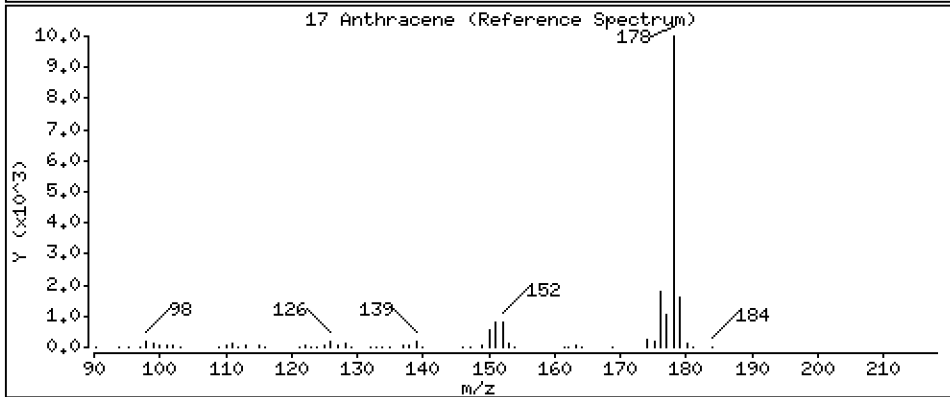
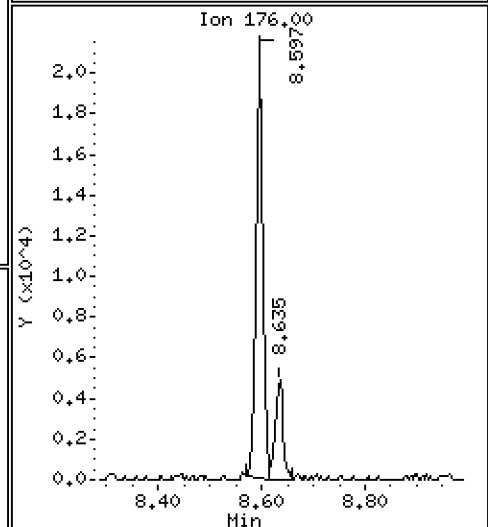
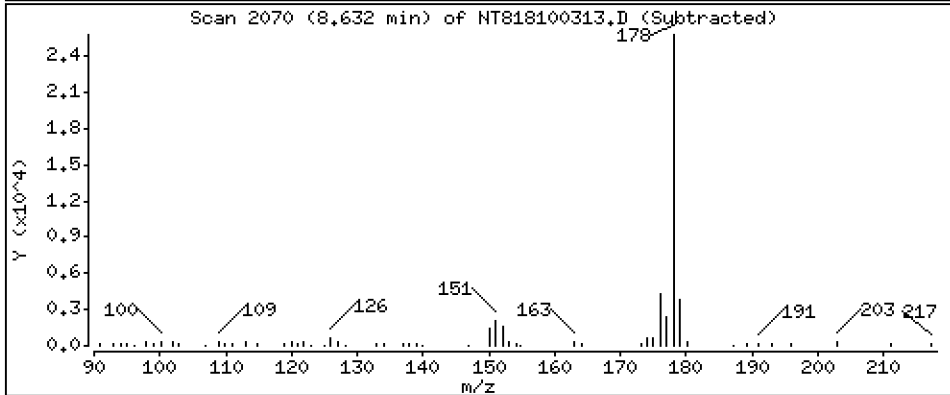
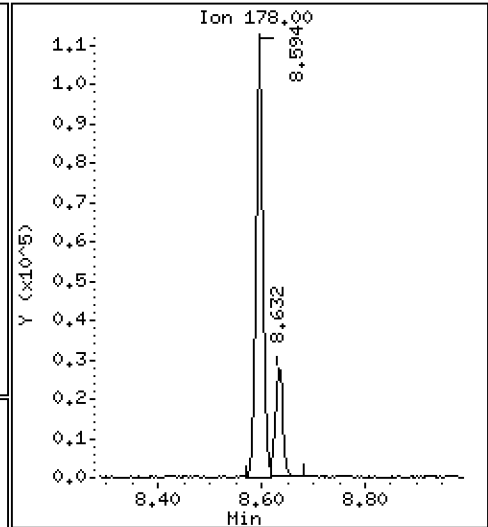
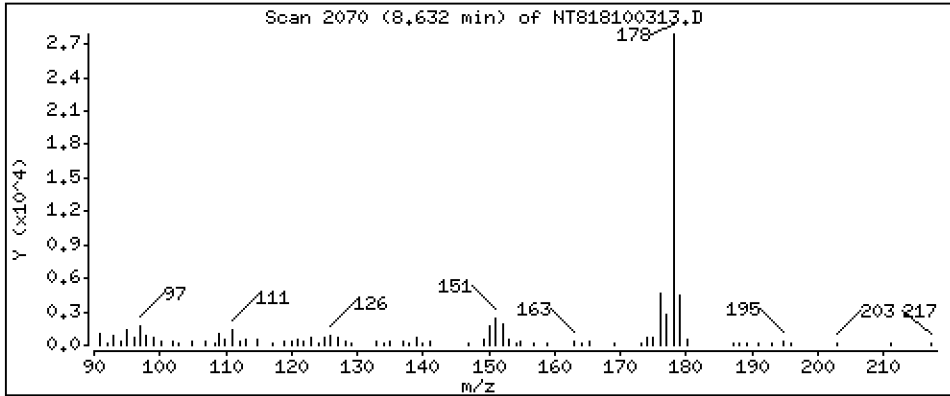
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,3270 ug/mL

17 Anthracene



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

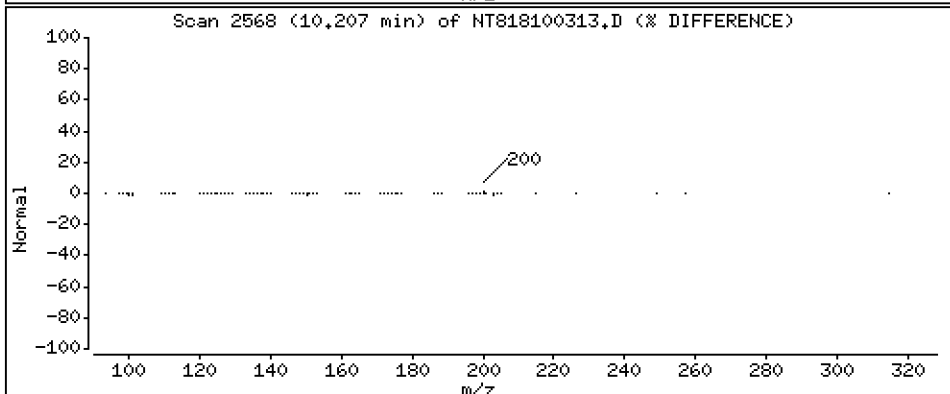
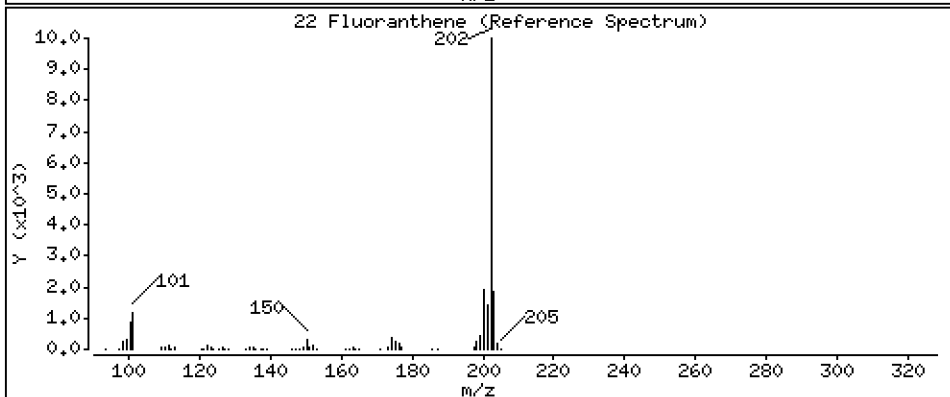
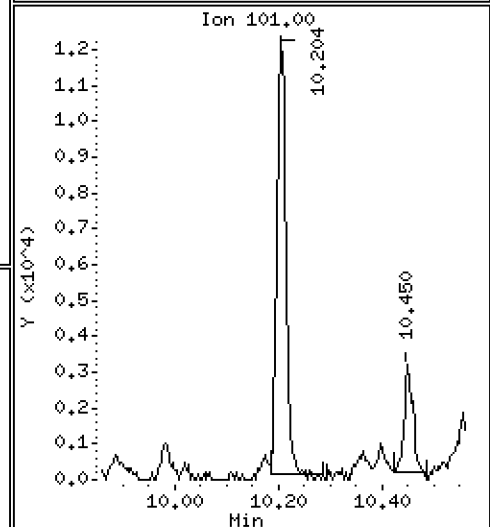
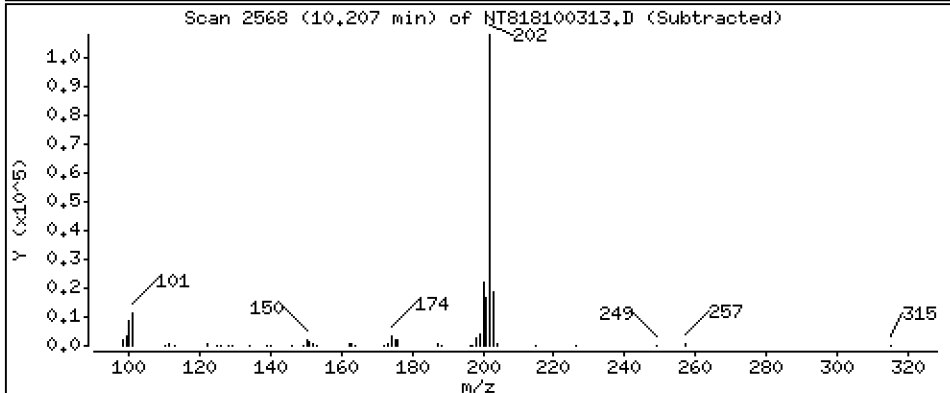
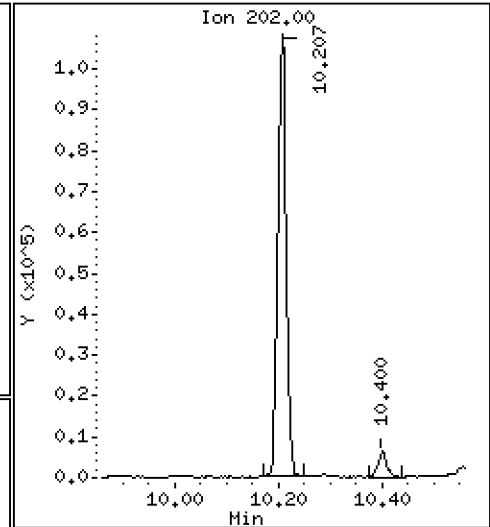
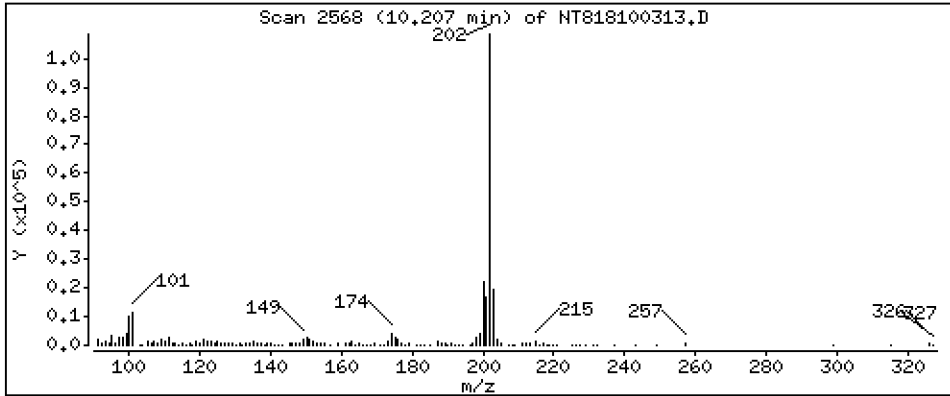
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 1,199 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

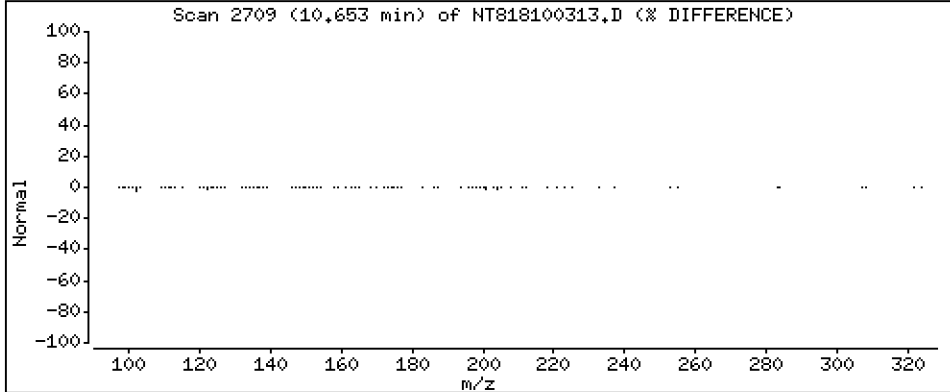
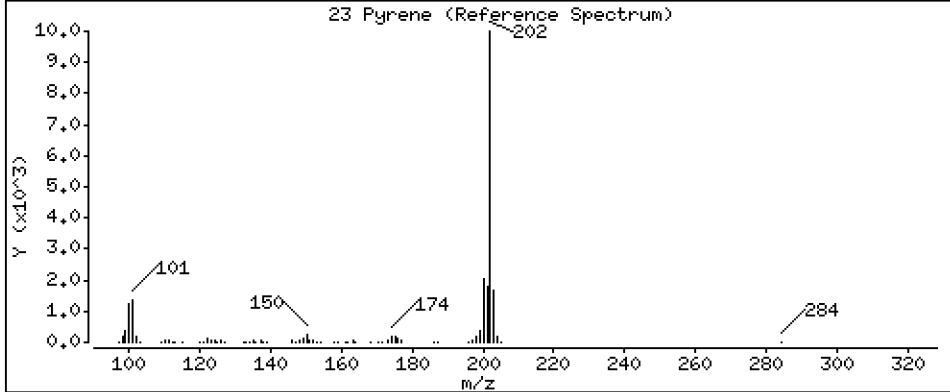
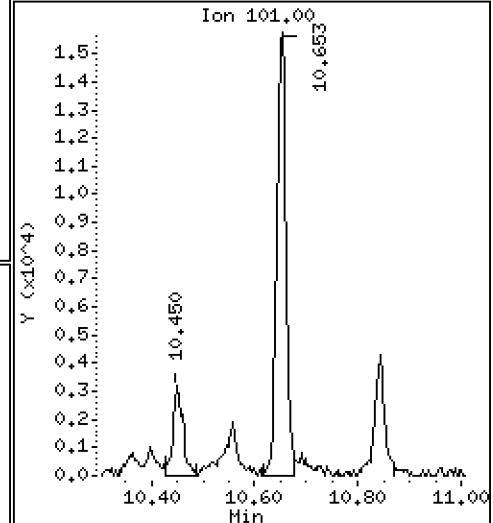
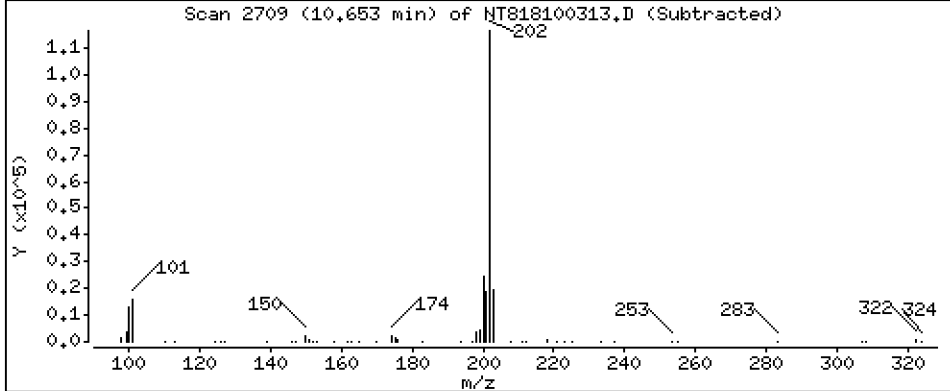
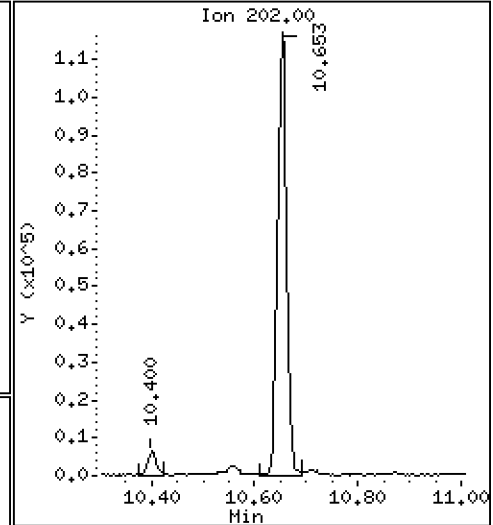
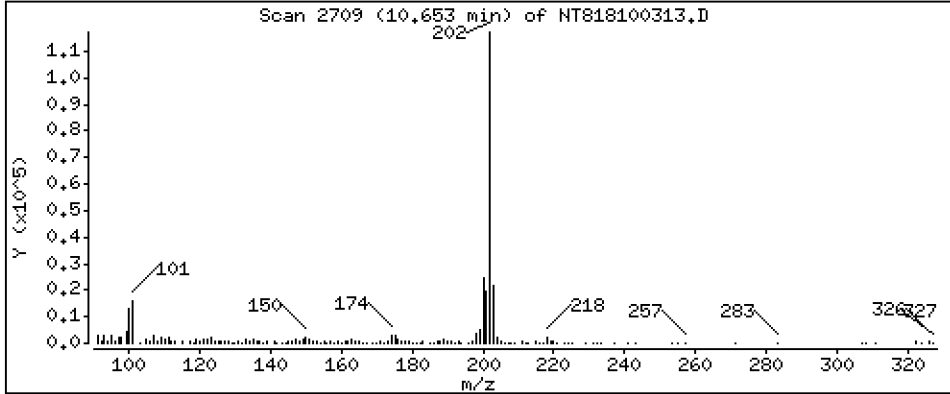
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 1,393 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

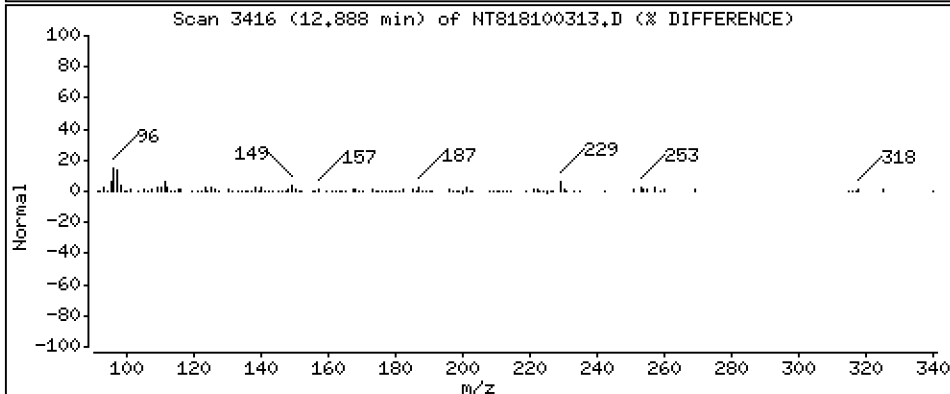
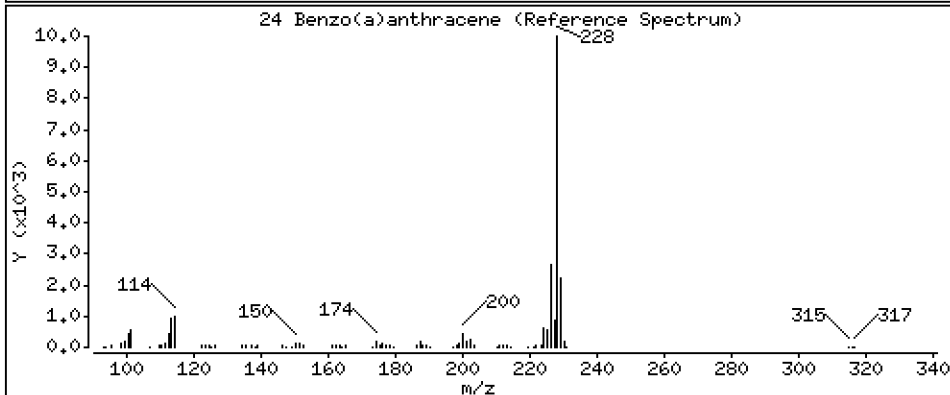
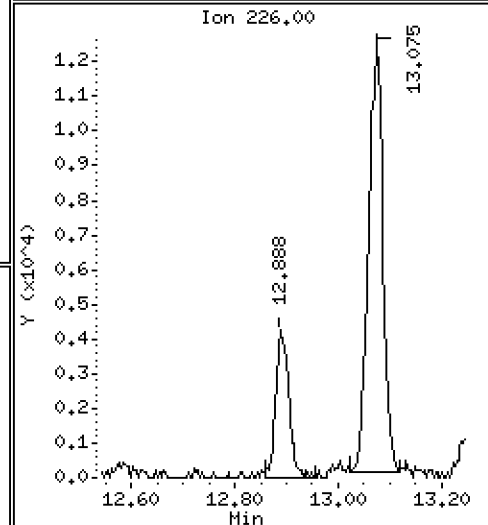
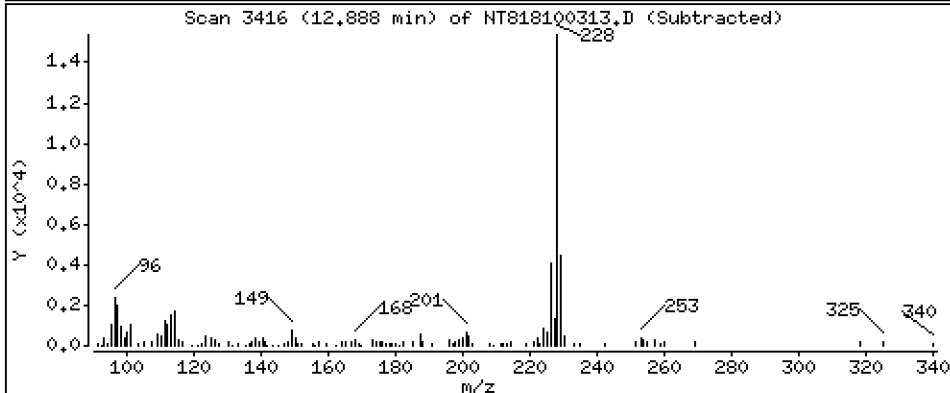
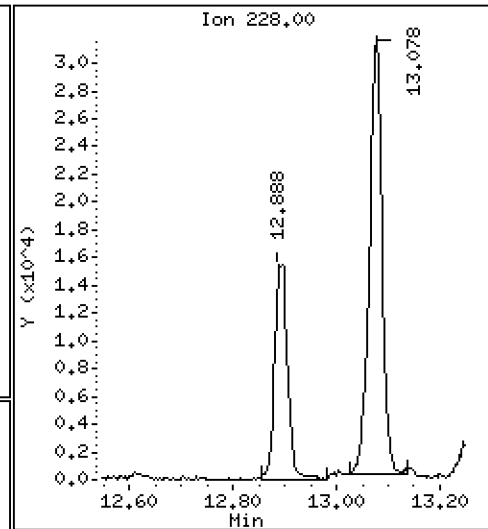
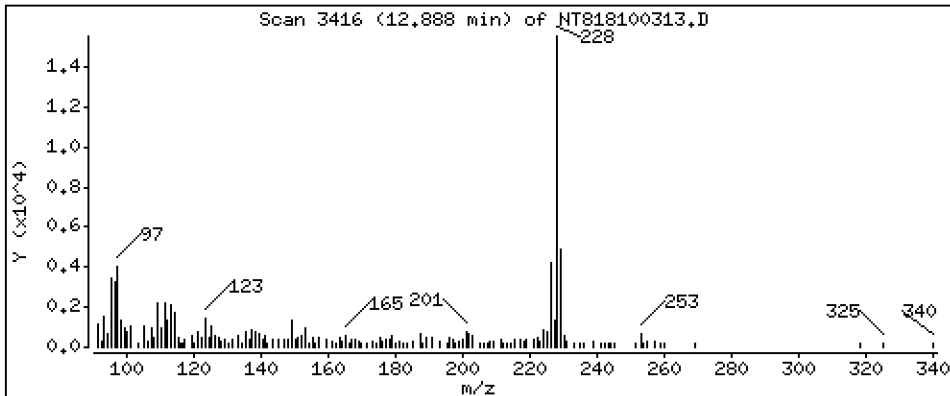
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 0,2763 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

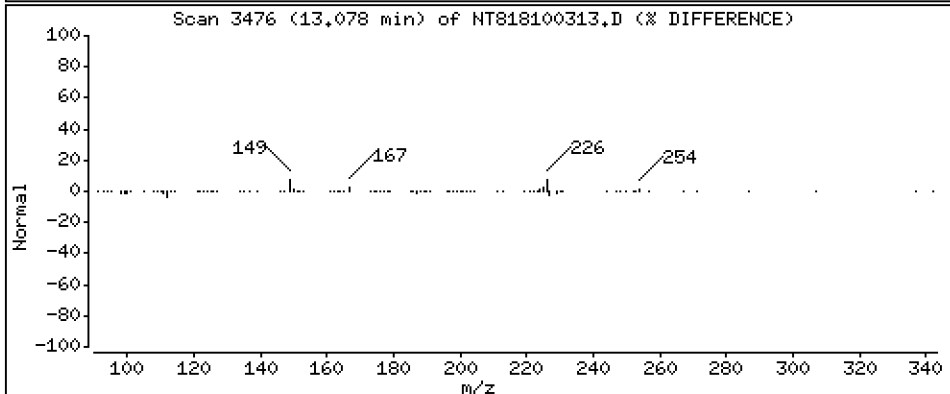
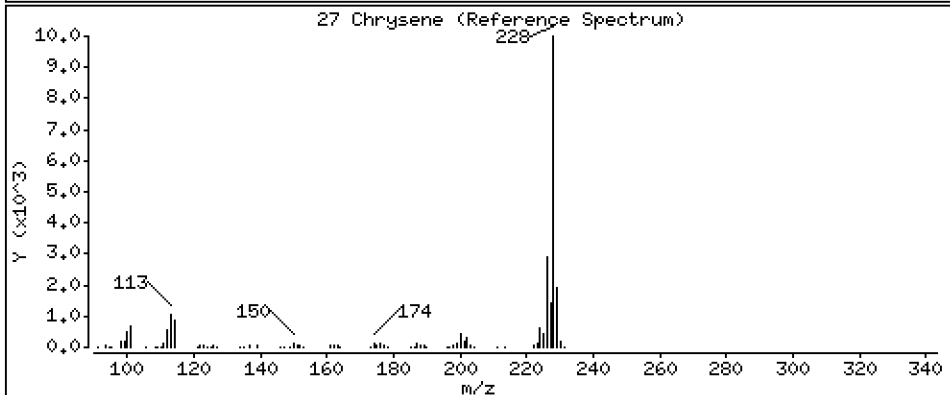
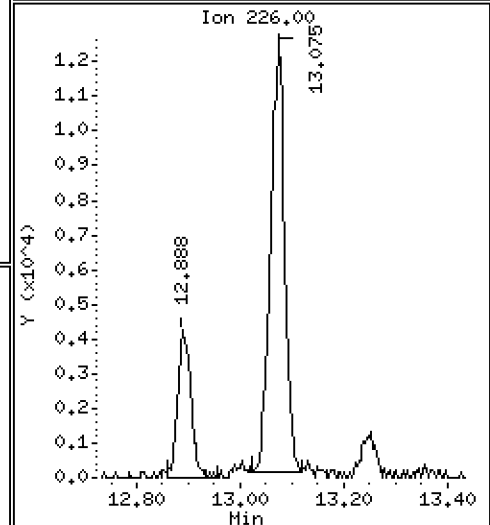
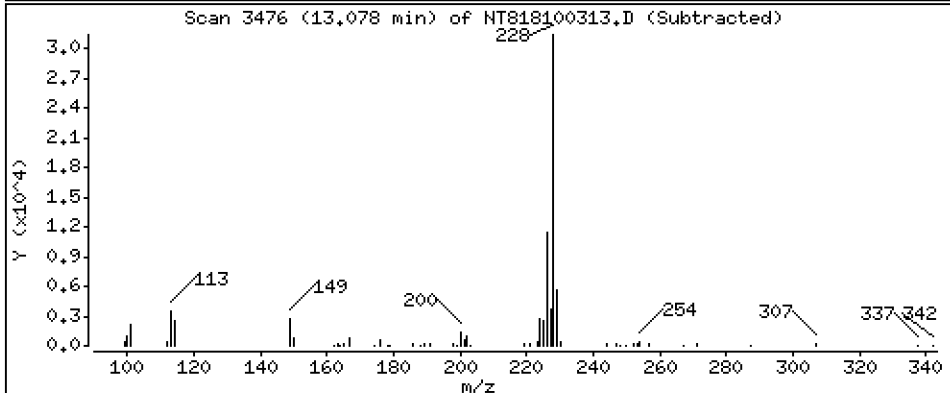
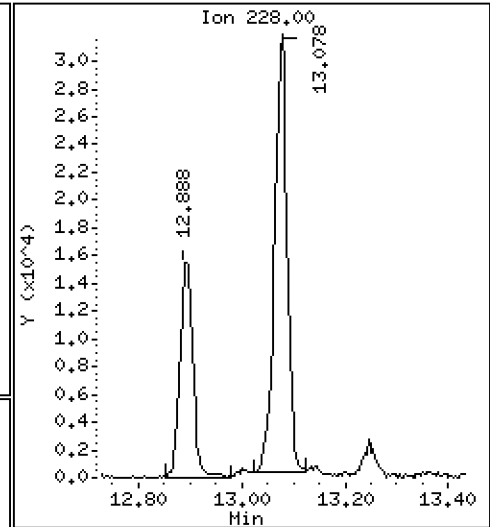
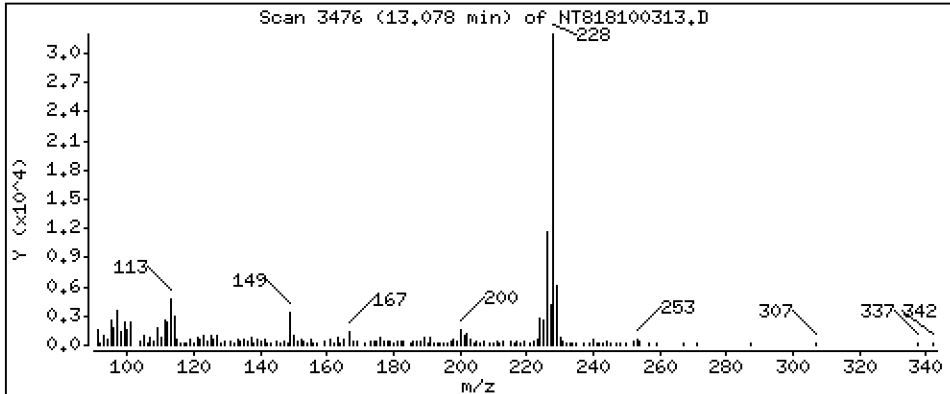
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 0,5695 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

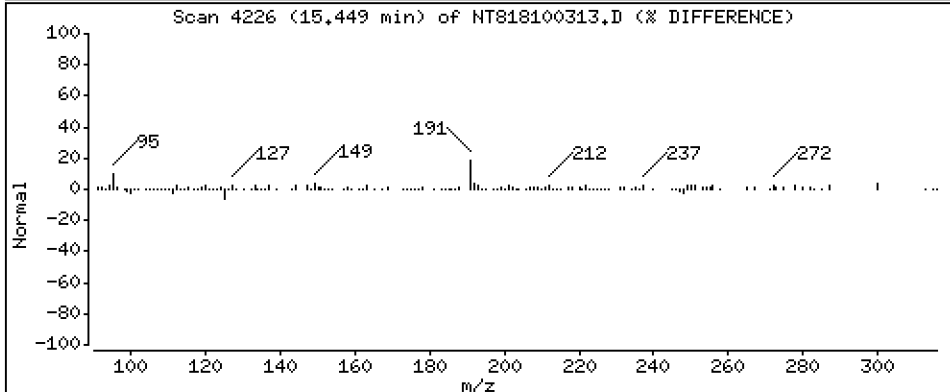
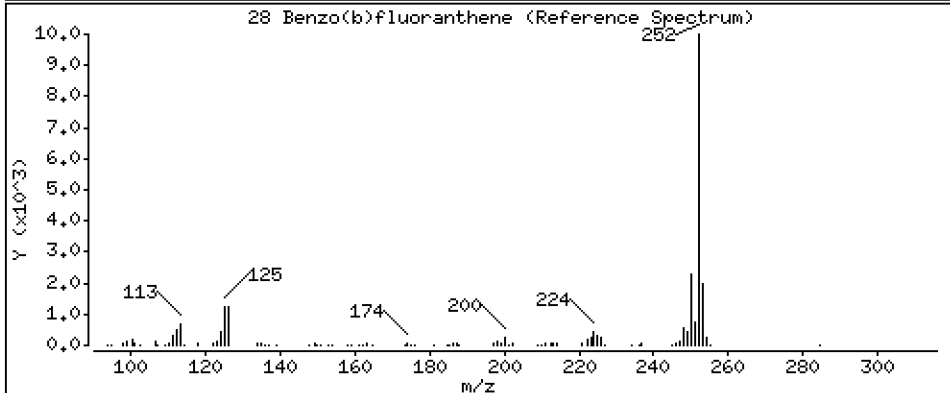
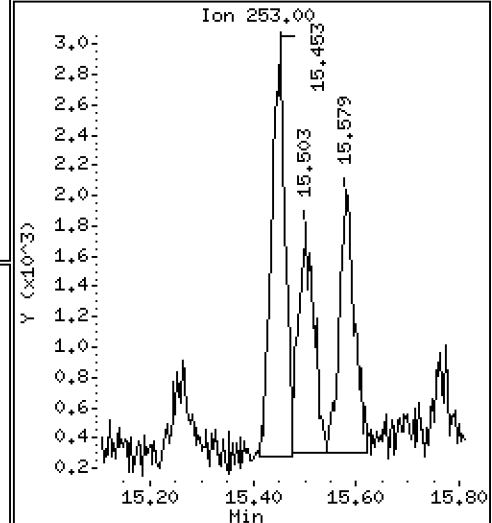
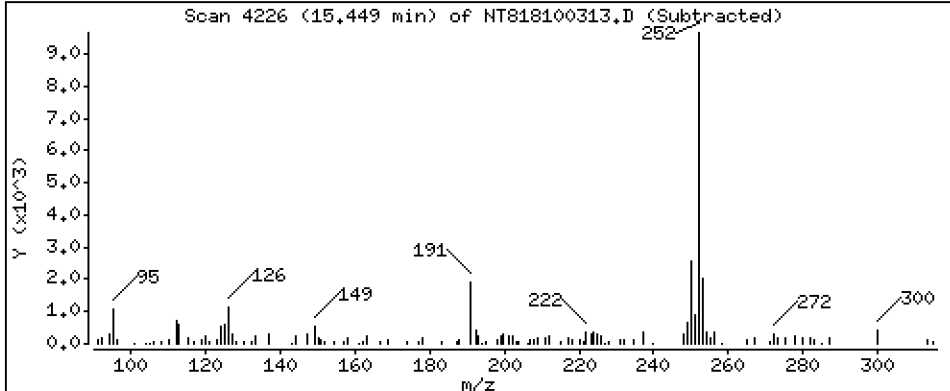
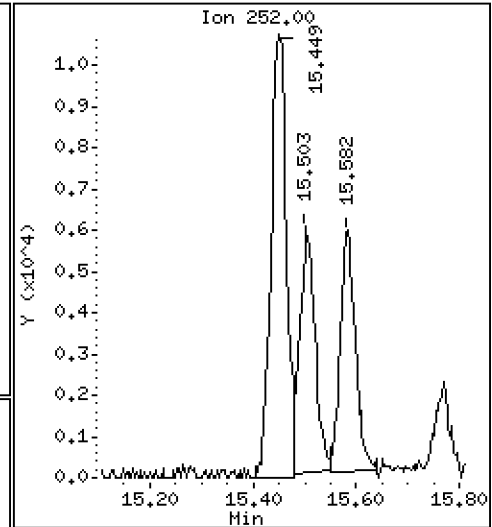
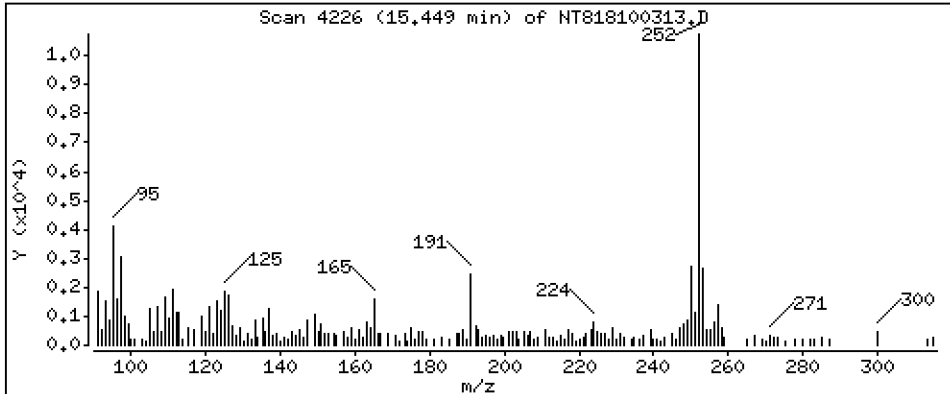
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 0,2155 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

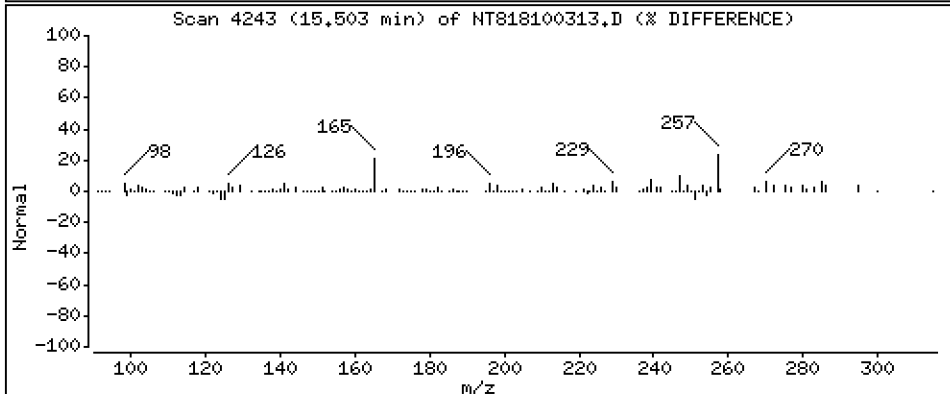
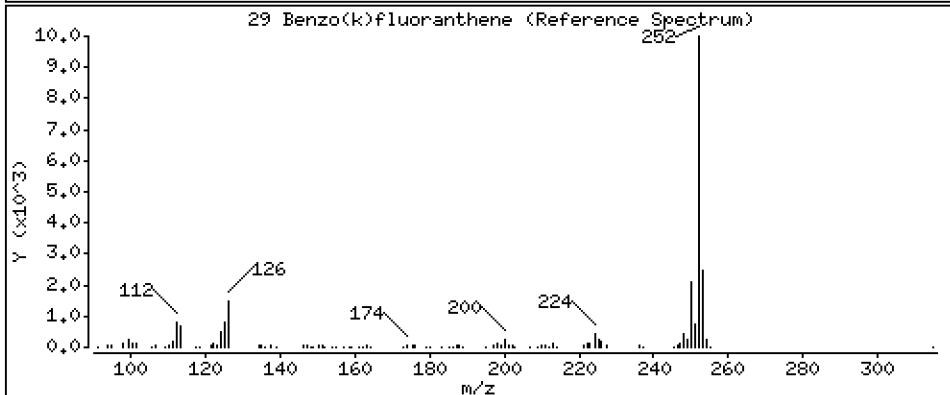
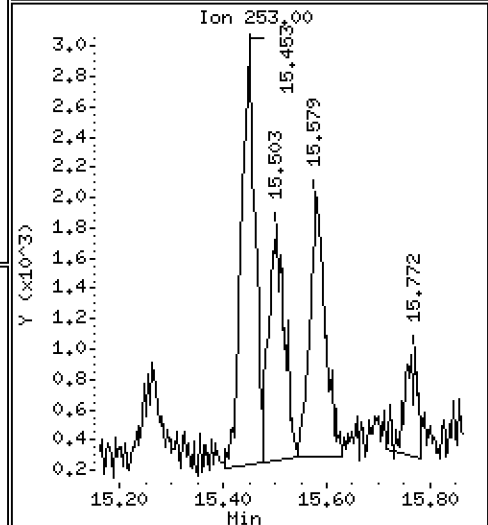
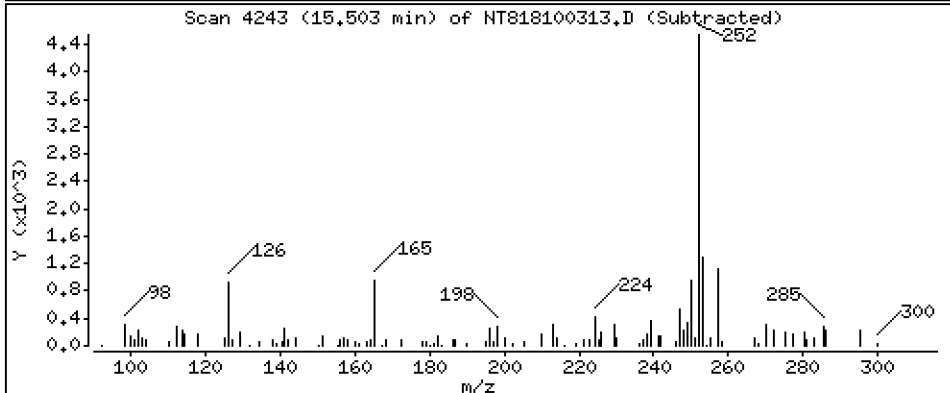
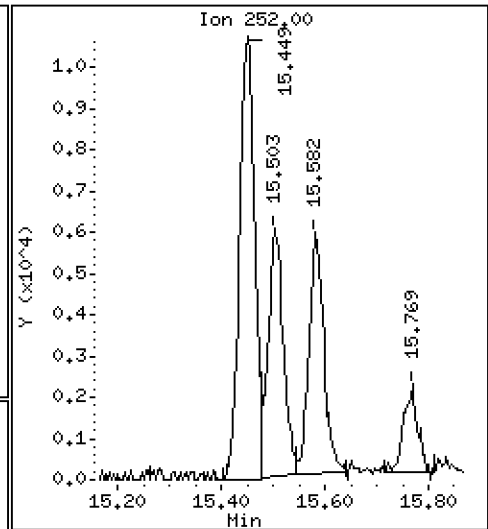
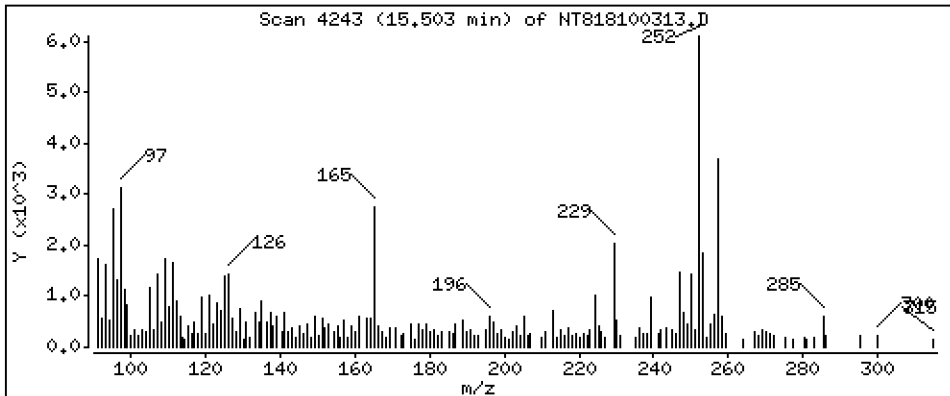
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 0,1218 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

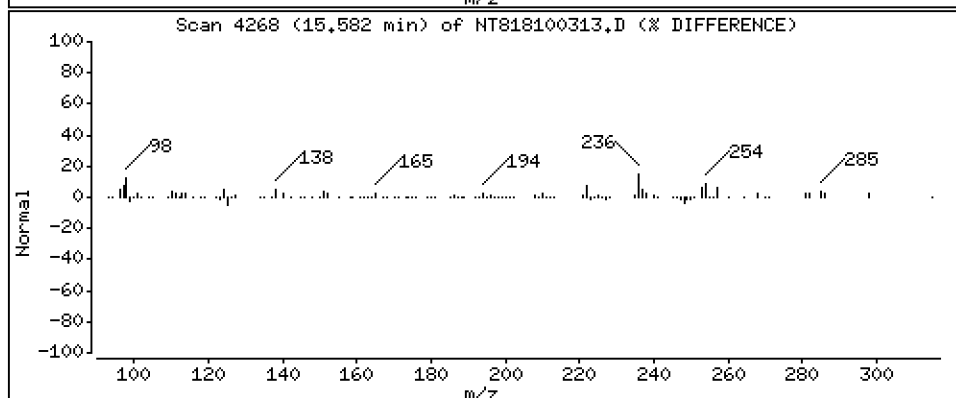
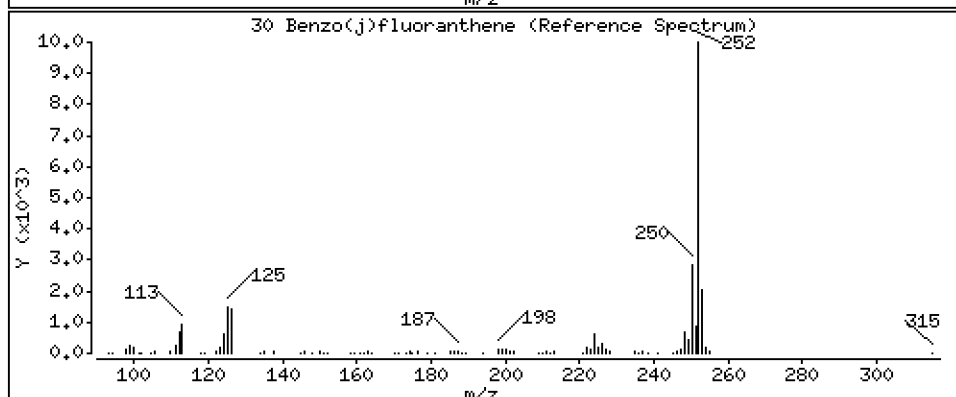
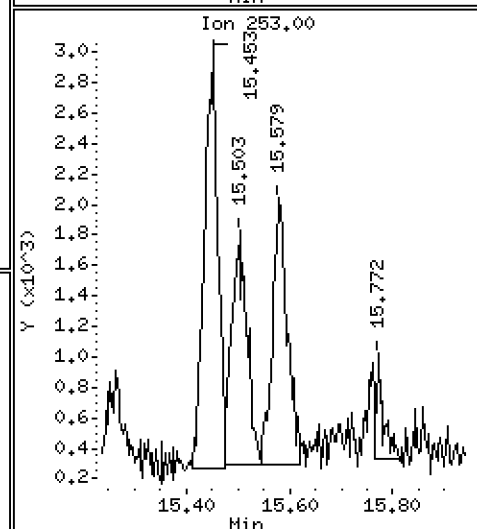
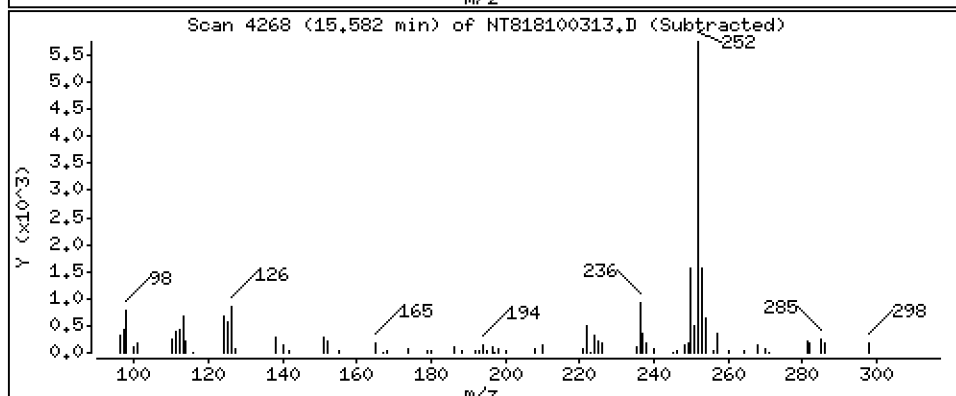
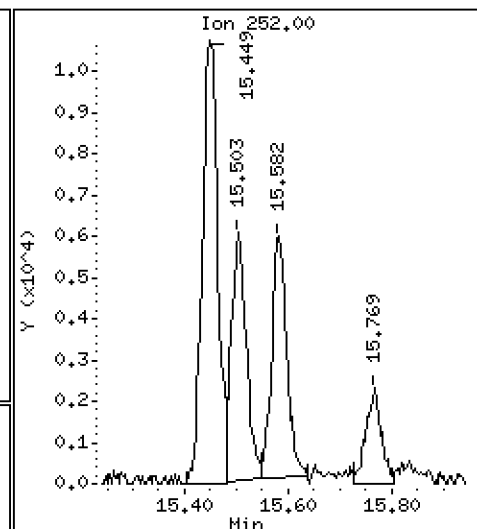
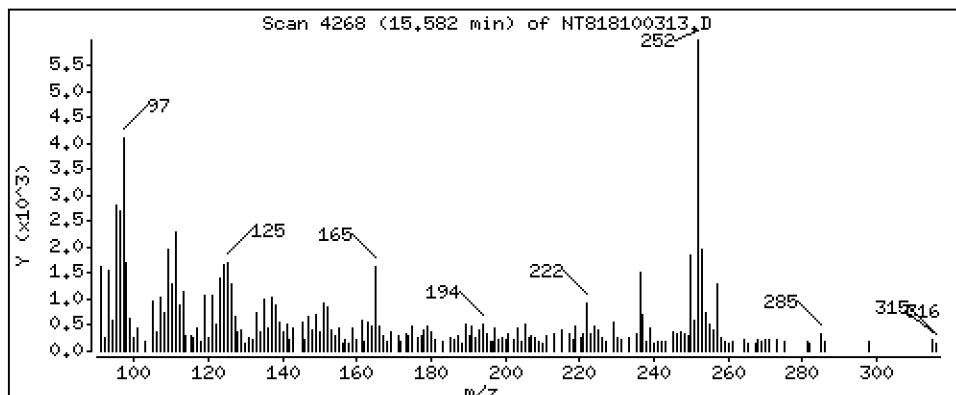
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 0,1200 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

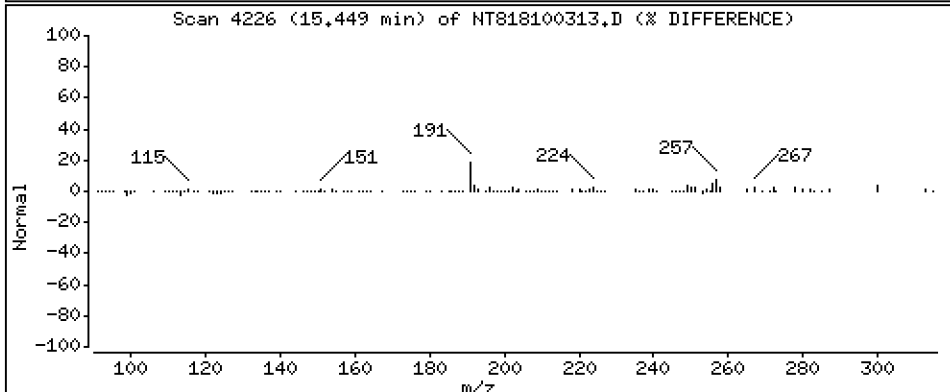
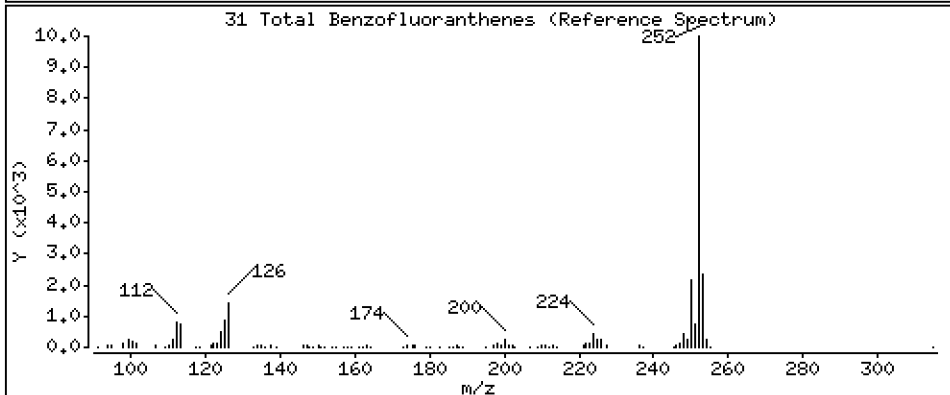
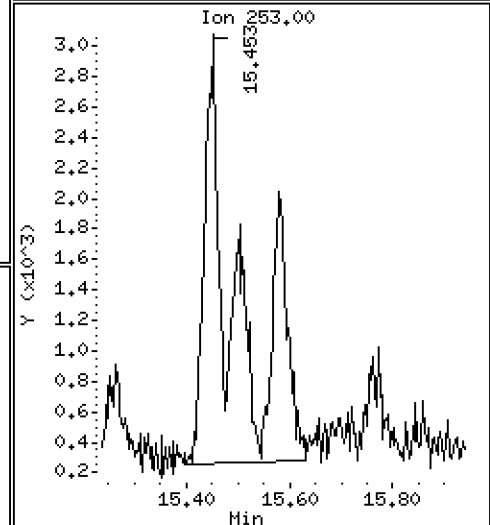
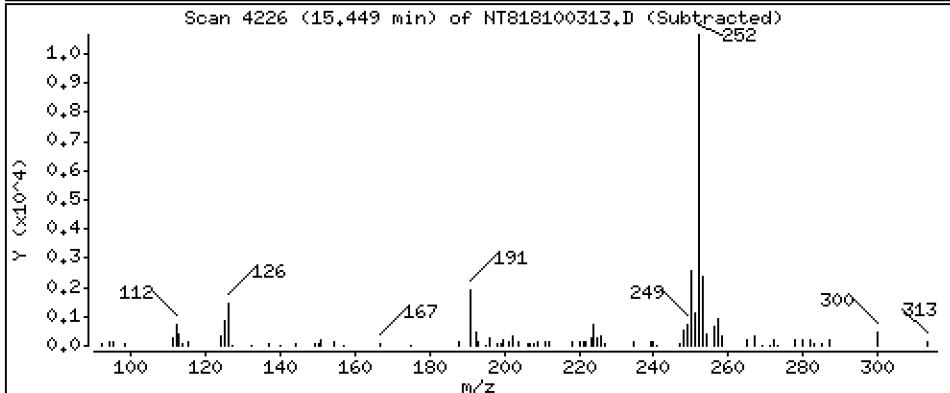
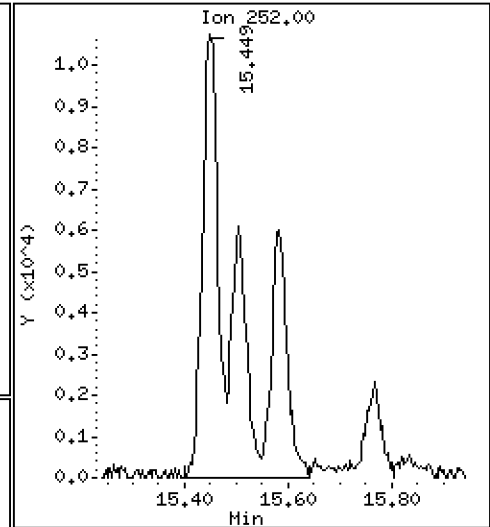
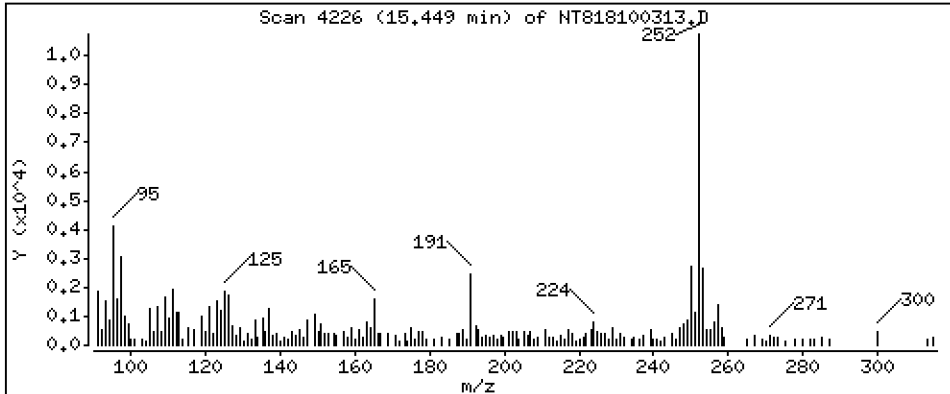
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 0,4677 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

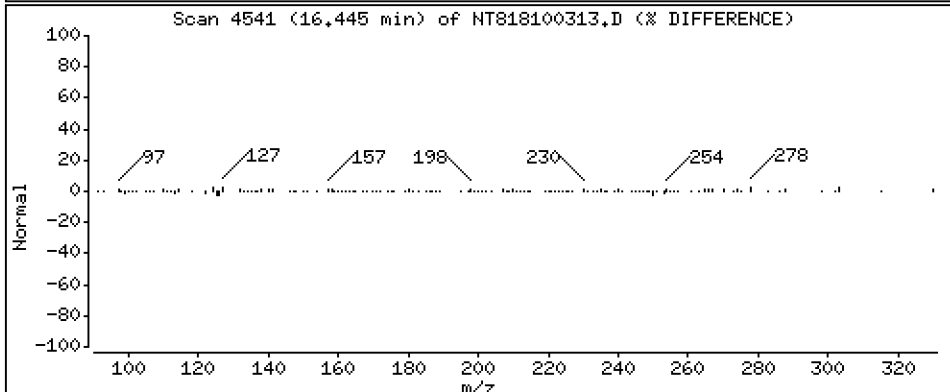
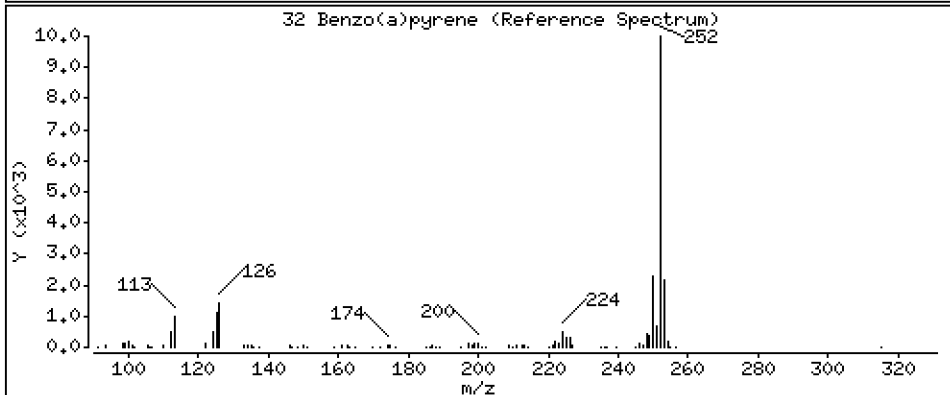
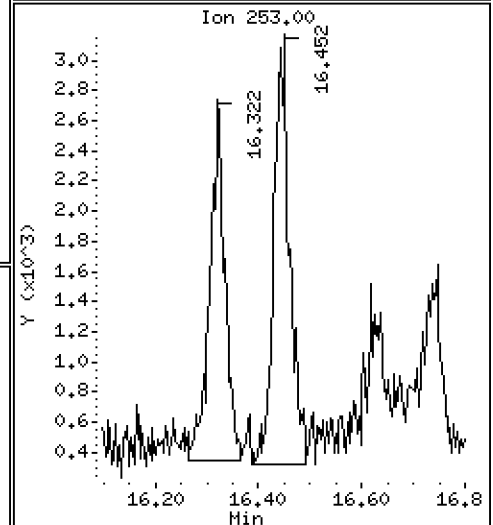
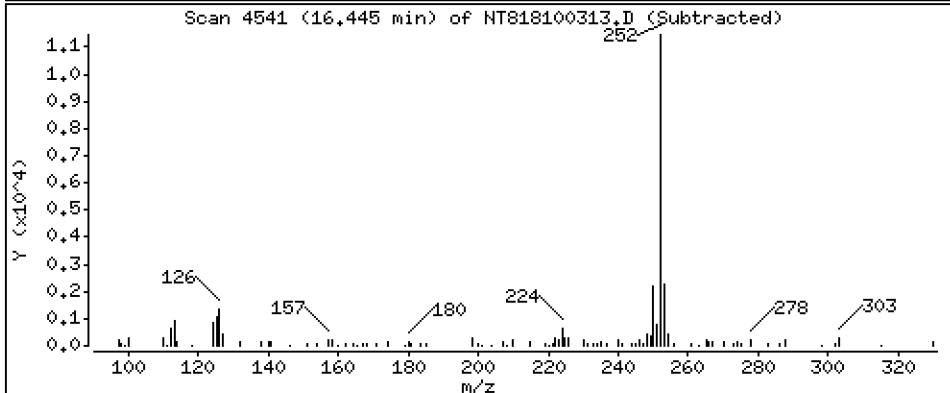
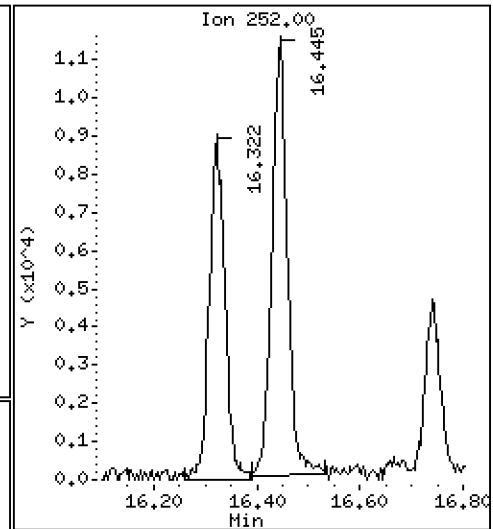
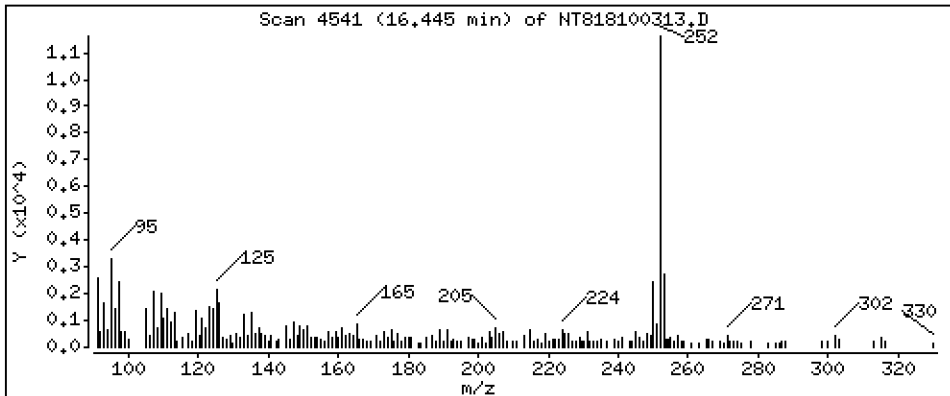
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 0,2545 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 18I0285-05

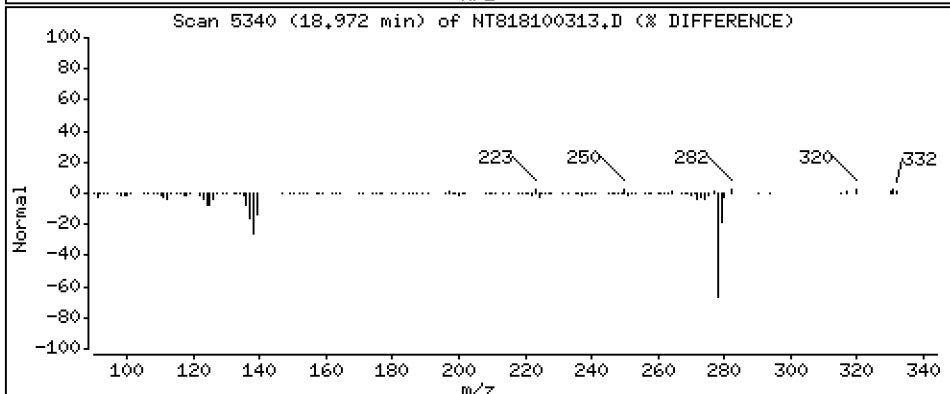
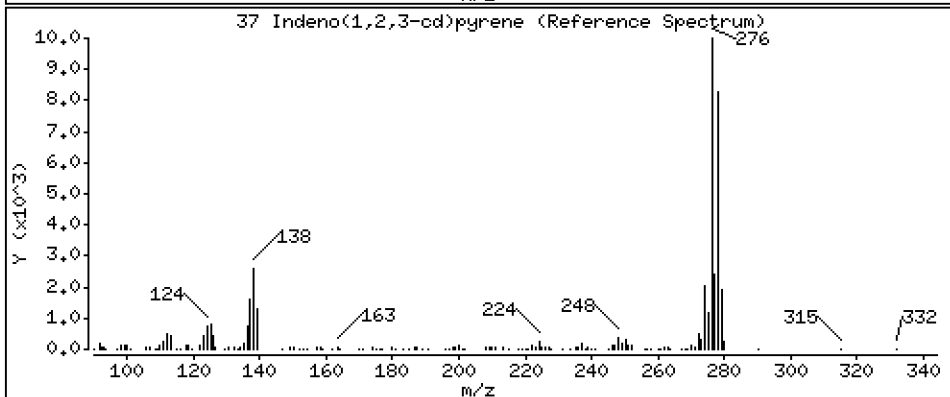
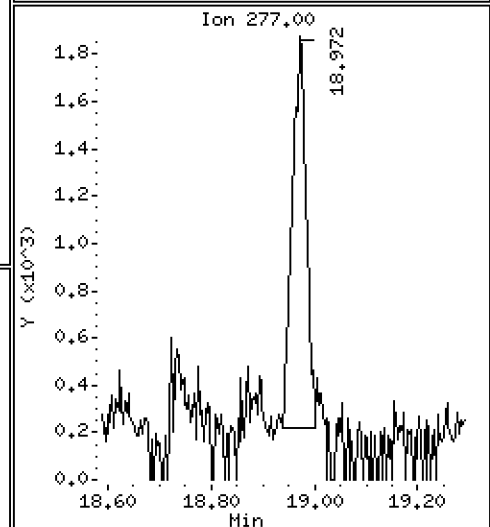
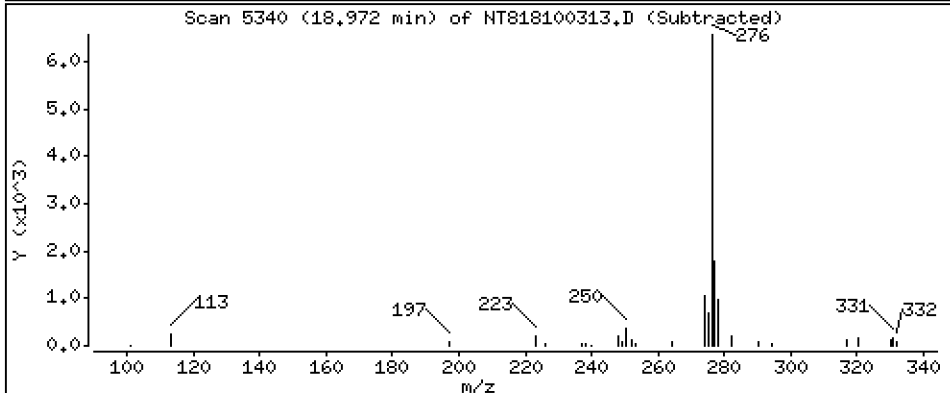
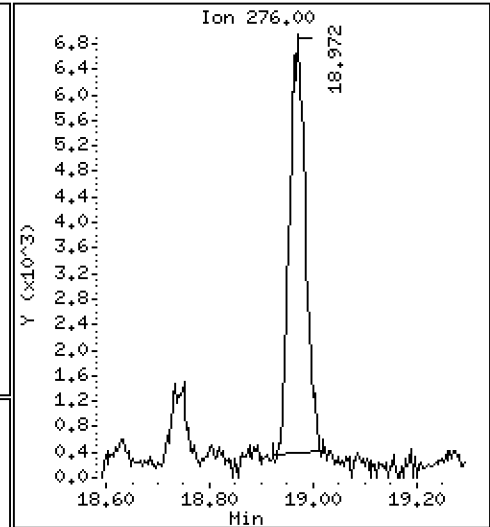
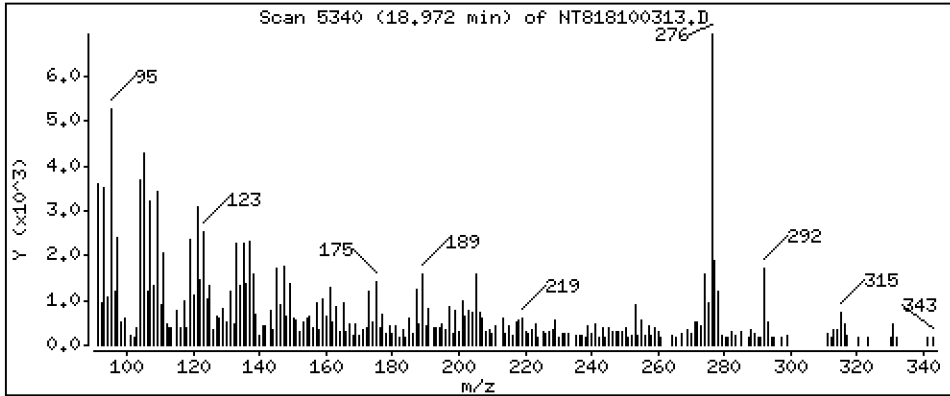
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 0,1394 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

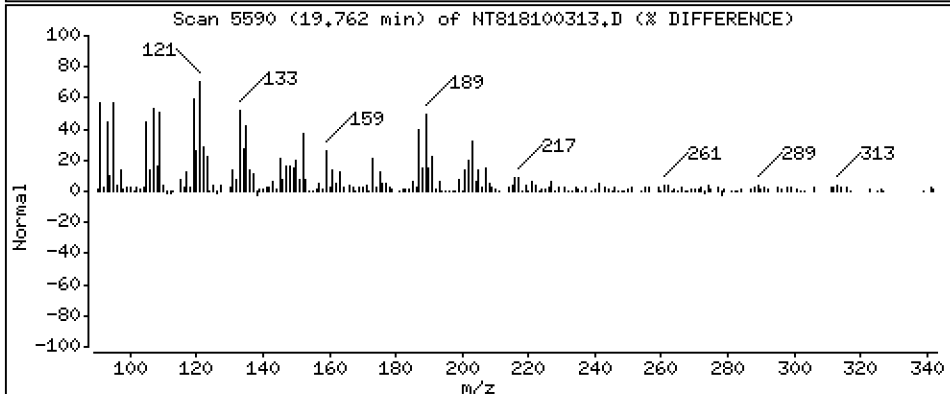
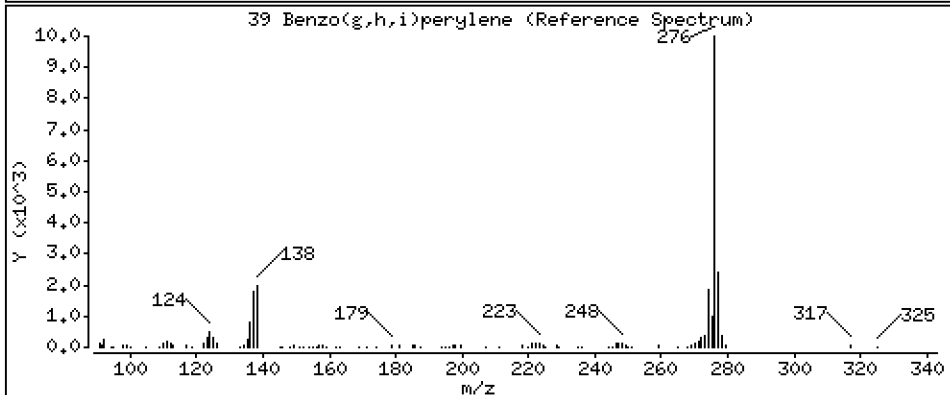
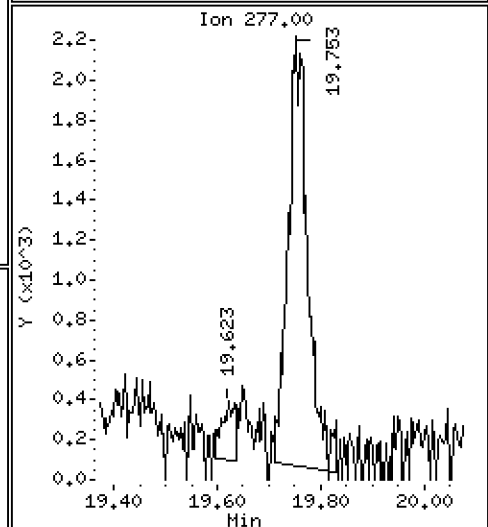
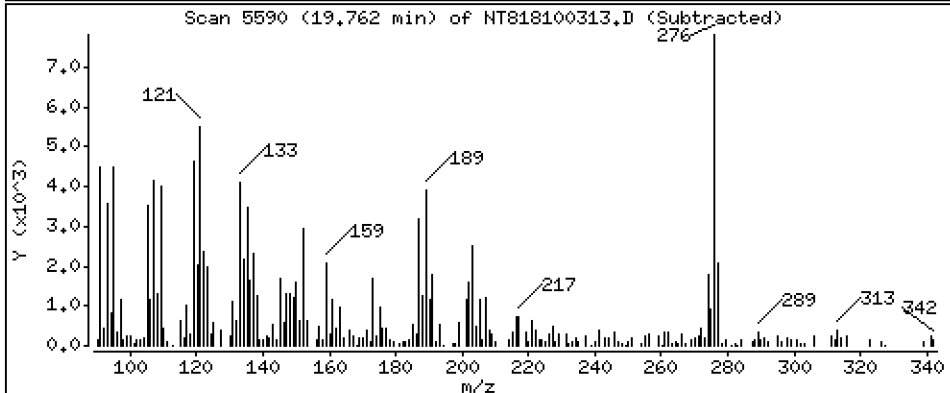
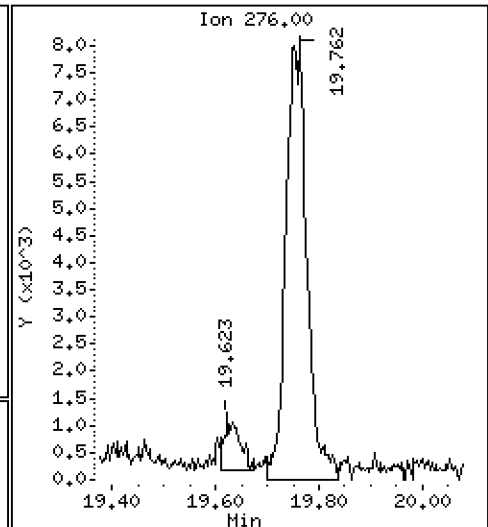
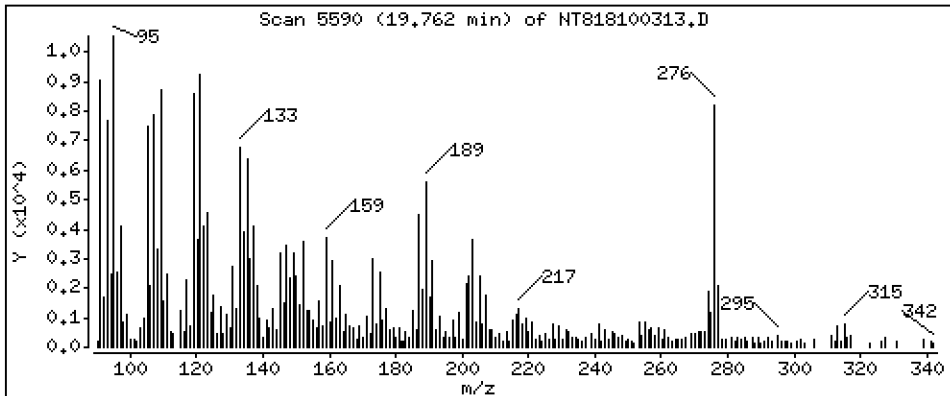
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 0,3296 ug/mL



Date : 03-OCT-2018 16:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-05

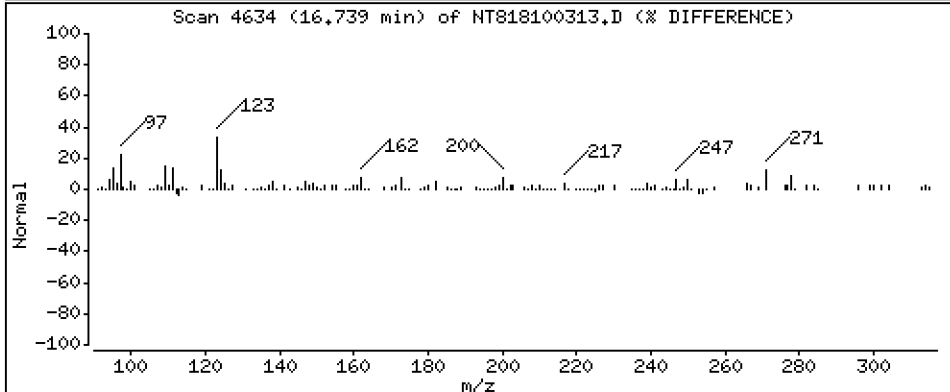
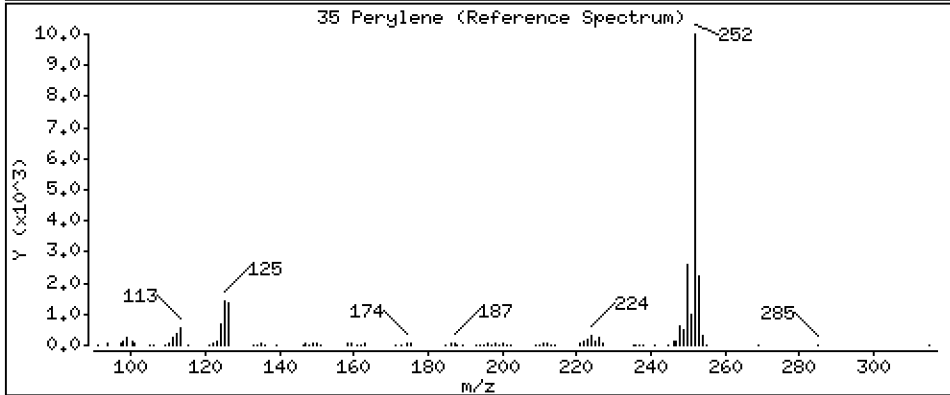
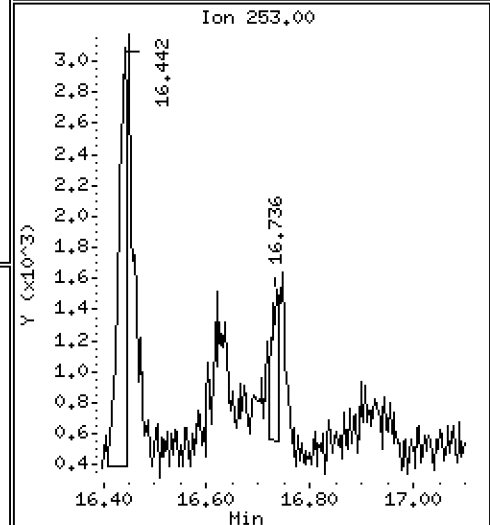
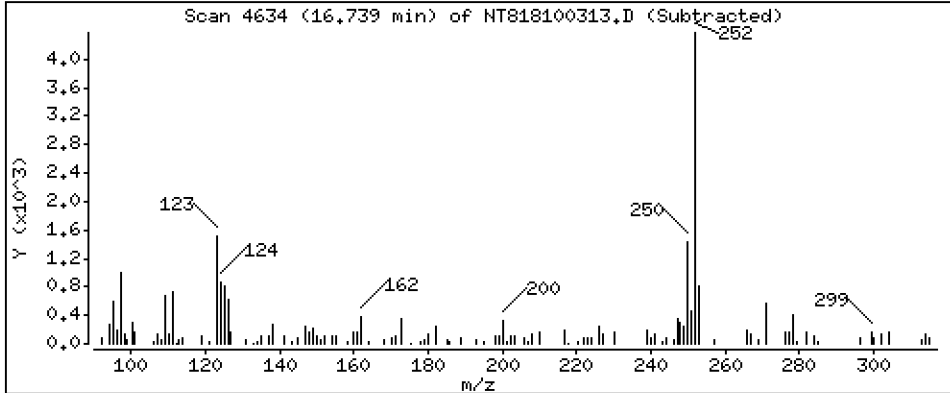
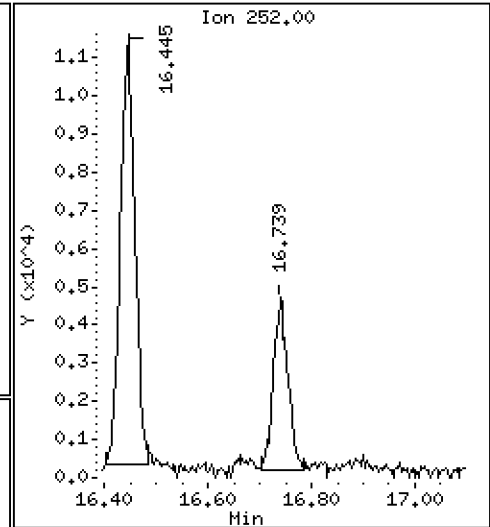
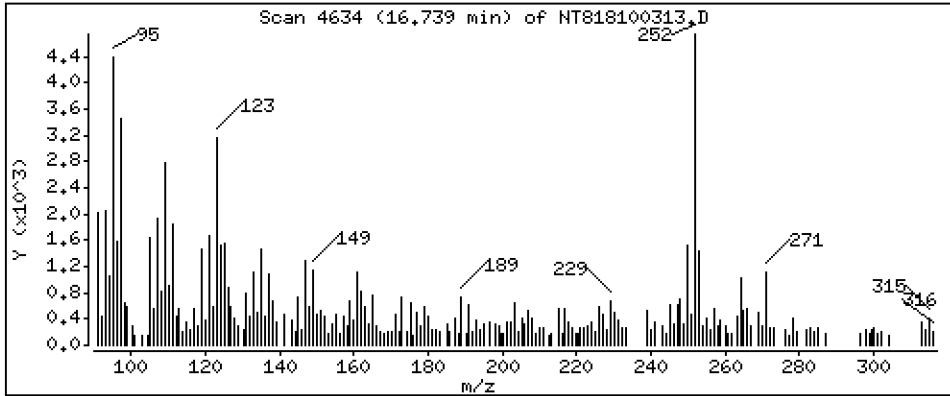
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 0,09101 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100313.D
 Lab Smp Id: 18I0285-05
 Inj Date : 03-OCT-2018 16:29
 Operator : JZ Inst ID: nt8.i
 Smp Info : 18I0285-05
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.309	4.319	(1.000)	158661	2.00000	
2 Naphthalene	128		4.338	4.347	(1.007)	235341	2.72157	2.722
\$ 3 2-Methylnaphthalene-d10	152		5.033	5.040	(1.168)	101984	1.81755	1.818
4 2-Methylnaphthalene	141		5.081	5.087	(1.179)	10669	0.22003	0.2200
5 1-methylnaphthalene	141		5.274	5.280	(1.224)	7328	0.14679	0.1468
9 Acenaphthylene	152		6.450	6.453	(0.983)	26237	0.30035	0.3003
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	82359	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.007)	11238	0.19084	0.1908
12 Dibenzofuran	168		6.760	6.763	(1.030)	17470	0.21416	0.2142
14 Fluorene	166		7.228	7.231	(1.101)	13814	0.20446	0.2045
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	162060	2.00000	
16 Phenanthrene	178		8.594	8.597	(1.004)	106468	1.21817	1.218
17 Anthracene	178		8.632	8.638	(1.008)	27984	0.32703	0.3270
22 Fluoranthene	202		10.206	10.209	(1.192)	121870	1.19932	1.199
\$ 21 Fluoranthene-d10	212		10.175	10.178	(1.188)	221104	2.16034	2.160
23 Pyrene	202		10.652	10.655	(0.819)	143084	1.39333	1.393
24 Benzo(a)anthracene	228		12.888	12.897	(0.991)	27440	0.27634	0.2763
* 25 Chrysene-d12	240		13.011	13.014	(1.000)	172589	2.00000	
27 Chrysene	228		13.077	13.080	(1.005)	53453	0.56954	0.5695
28 Benzo(b)fluoranthene	252		15.449	15.458	(0.927)	22568	0.21551	0.2155
29 Benzo(k)fluoranthene	252		15.503	15.515	(0.930)	12628	0.12180	0.1218
30 Benzo(j)fluoranthene	252		15.582	15.591	(0.935)	11792	0.11998	0.1200
31 Total Benzofluoranthenes	252		15.449	15.591	(0.927)	47534	0.46769	0.4677 (M)
32 Benzo(a)pyrene	252		16.445	16.451	(0.986)	24037	0.25446	0.2545
* 33 Perylene-d12	264		16.673	16.672	(1.000)	167923	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.971	18.943	(1.138)	13872	0.13940	0.1394 (M)
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.886	18.861	(1.133)	216005	2.86742	2.867
38 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
39 Benzo(g,h,i)perylene	276		19.762	19.727	(1.185)	23109	0.32958	0.3296
35 Perylene	252		16.739	16.745	(1.004)	8869	0.09101	0.09101

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100313.D Calibration Time: 11:20
 Lab Smp Id: 18I0285-05
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	158661	20.31
10 Acenaphthene-d10	72272	36136	144544	82359	13.96
15 Phenanthrene-d10	156058	78029	312116	162060	3.85
25 Chrysene-d12	174389	87195	348778	172589	-1.03
33 Perylene-d12	150701	75351	301402	167923	11.43

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.22
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.04
25 Chrysene-d12	13.01	12.51	13.51	13.01	-0.02
33 Perylene-d12	16.67	16.17	17.17	16.67	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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100313.D

Lab ID: 18I0285-05
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 16:29

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.927	0.935	-0.0085	Total Benzofluoranthenes

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

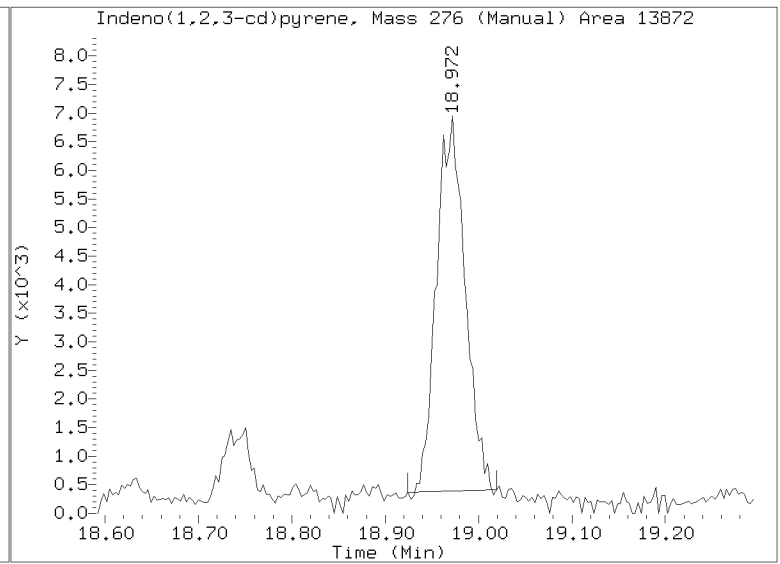
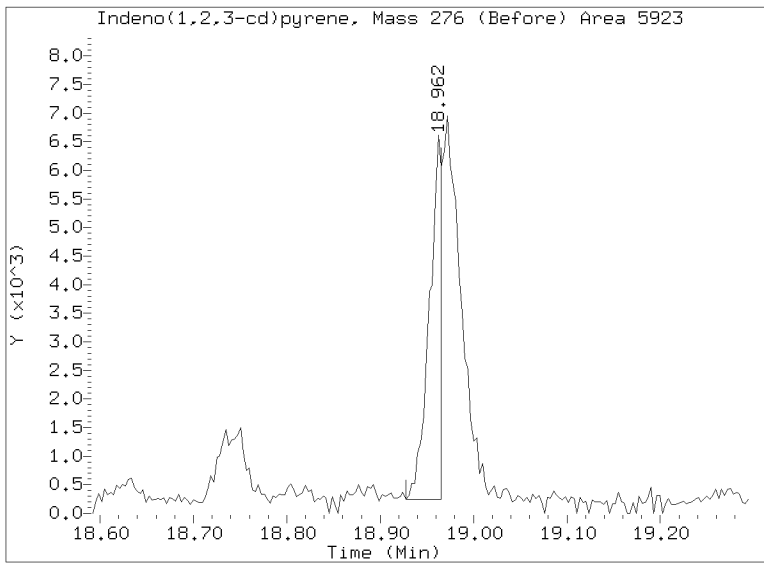
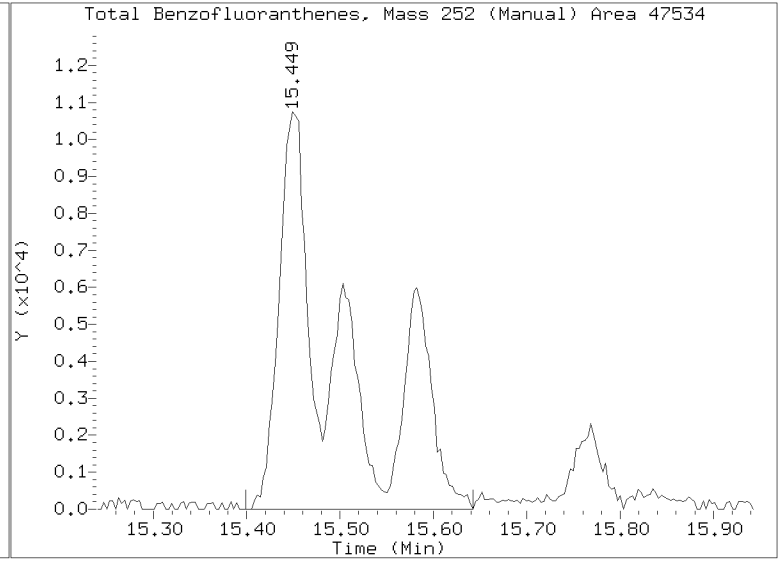
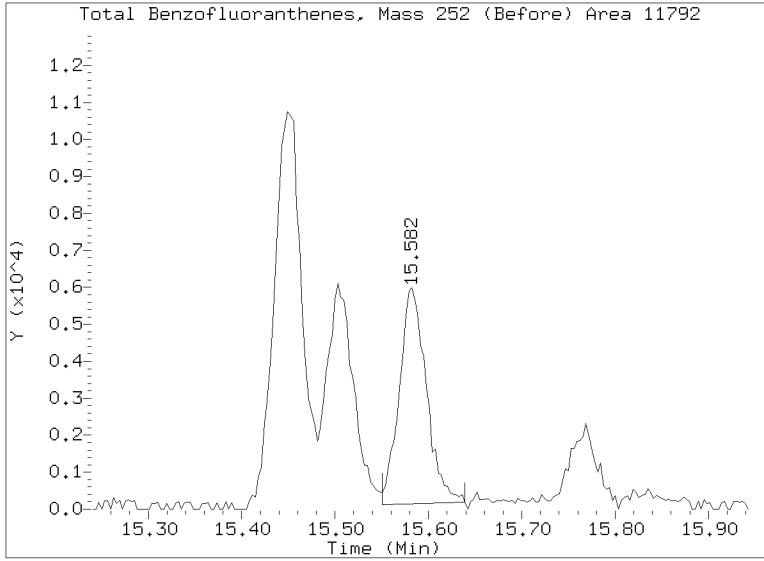
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100313.D

Injection Date: 03-OCT-2018 16:29

Lab ID:18I0285-05 Client ID:

Report Date: 10/09/2018 16:38





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270D-SIM
Polynuclear Aromatic Hydrocarbons

Laboratory: Analytical Resources, Inc.
 Client: Anchor OEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 1810285-06 SDG: 1810285
 Sampled: 09/18/18 16:35 Prepared: 09/26/18 15:45 File ID: NT818100314.D
 % Solids: 78.01 Preparation: EPA 3546 (Microwave) Analyzed: 10/03/18 16:56
 Batch: BGI0708 Sequence: SGJ0048 Initial/Final: 13.01 g Wet / 0.5 mL
 Instrument: NT8 Column: RXI-17Sil ms Calibration: BH00016
 Cleanups: Silica Gel, Sulfur

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	57.1		1.26	4.93
91-57-6	2-Methylnaphthalene	1	7.65		1.09	4.93
90-12-0	1-Methylnaphthalene	1	4.80	J	0.40	4.93
208-96-8	Acenaphthylene	1	10.8		1.07	4.93
83-32-9	Acenaphthene	1	7.41		0.56	4.93
86-73-7	Fluorene	1	5.97		0.62	4.93
85-01-8	Phenanthrene	1	31.7		0.71	4.93
120-12-7	Anthracene	1	10.6		0.86	4.93
206-44-0	Fluoranthene	1	34.9		0.46	4.93
129-00-0	Pyrene	1	31.5		0.62	4.93
56-55-3	Benzo(a)anthracene	1	5.20		0.81	4.93
218-01-9	Chrysene	1	10.4		1.04	4.93
205-99-2	Benzo(b)fluoranthene	1	4.44	J	1.35	4.93
207-08-9	Benzo(k)fluoranthene	1	2.51	J	0.75	4.93
205-82-3	Benzo(j)fluoranthene	1	2.41	J	0.67	4.93
50-32-8	Benzo(a)pyrene	1	4.14	J	0.60	4.93
193-39-5	Indeno(1,2,3-cd)pyrene	1	4.93	U	1.03	4.93
53-70-3	Dibenzo(a,h)anthracene	1	4.93	U	0.88	4.93
191-24-2	Benzo(g,h,i)perylene	1	6.17		1.05	4.93
	Benzofluoranthenes, Total	1	9.42	J	2.96	9.85

SURROGATES	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	147.79	82.3	55.7	32 - 120	
Dibenzo[a,h]anthracene-d14	147.79	132	89.6	21 - 133	
Fluoranthene-d10	147.79	105	71.1	36 - 134	

Data File: \\target\share\chem3\nt8.1\20181003.1\NT818100314.D

Date: 03-OCT-2018 16:56

Client ID:

Sample Info: 1810285-06

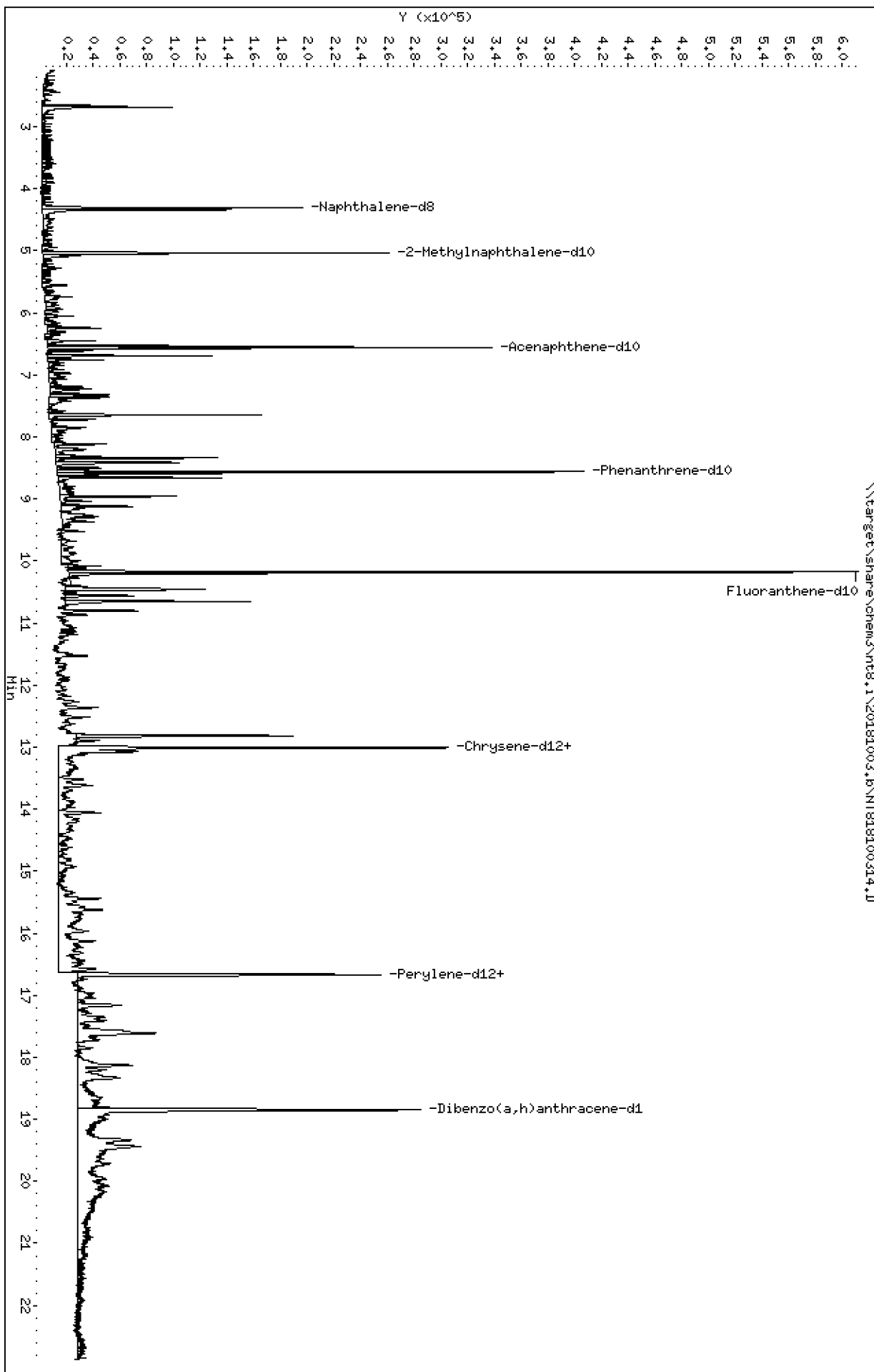
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

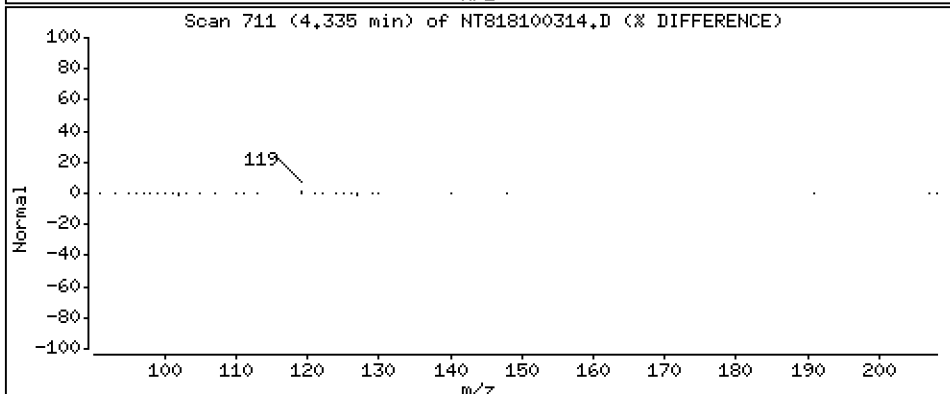
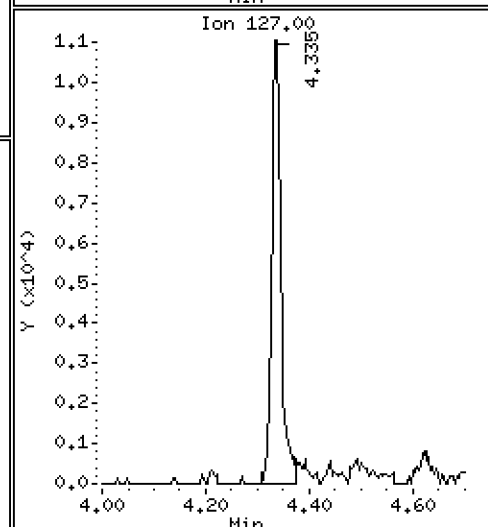
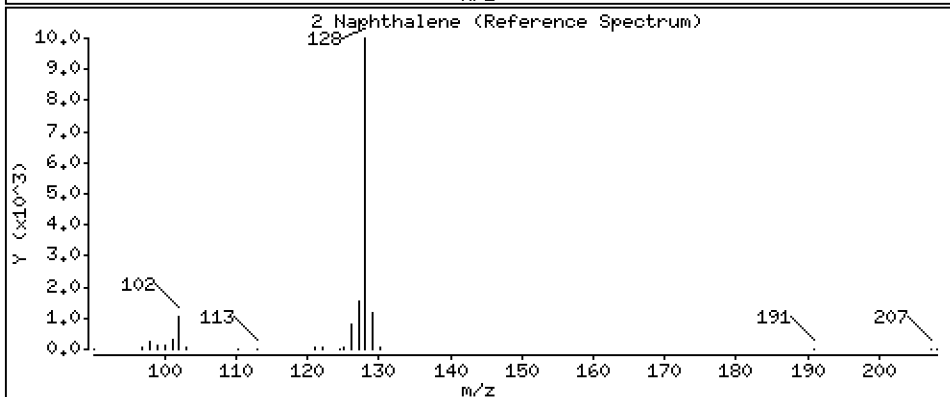
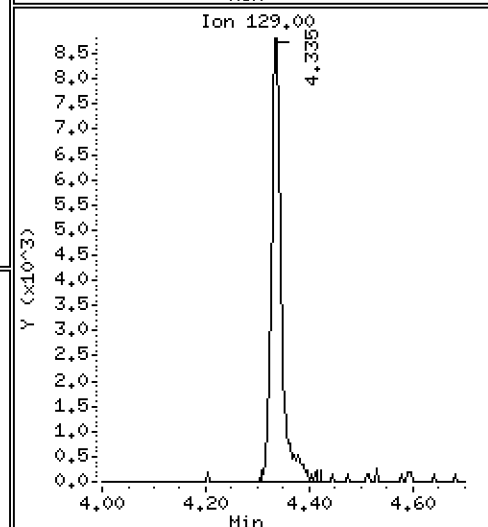
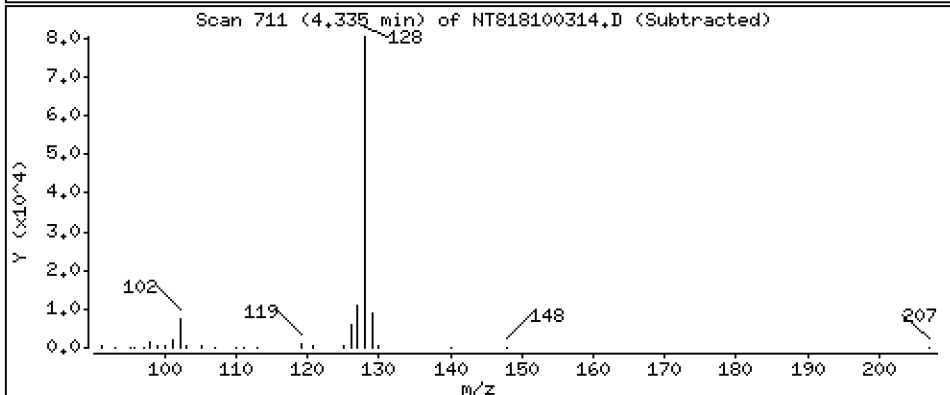
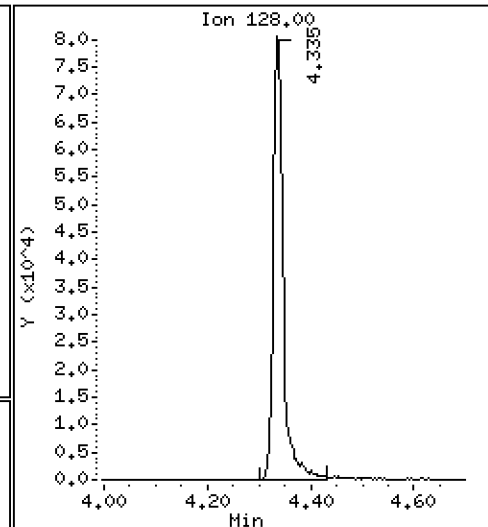
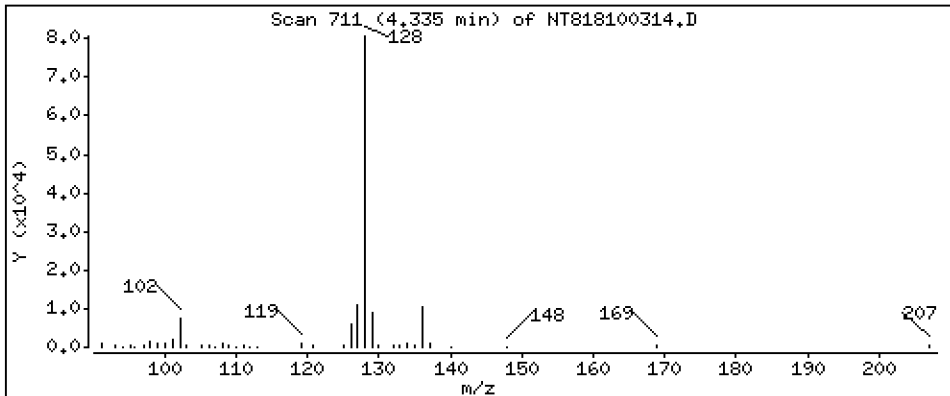
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 1.158 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

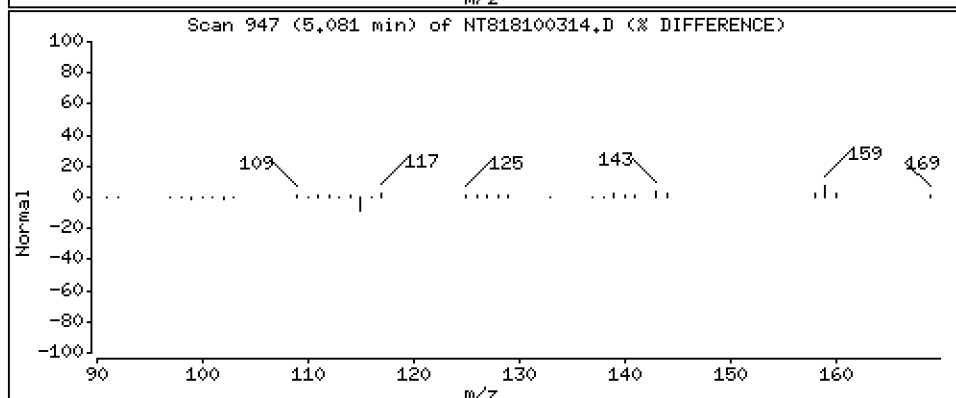
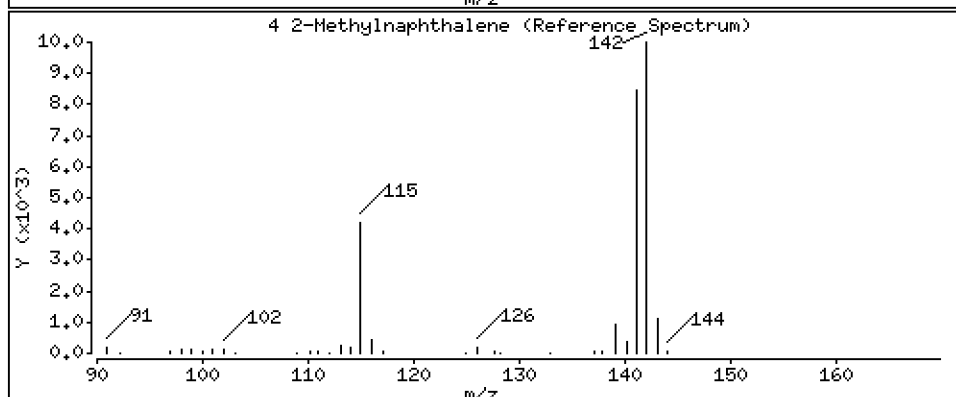
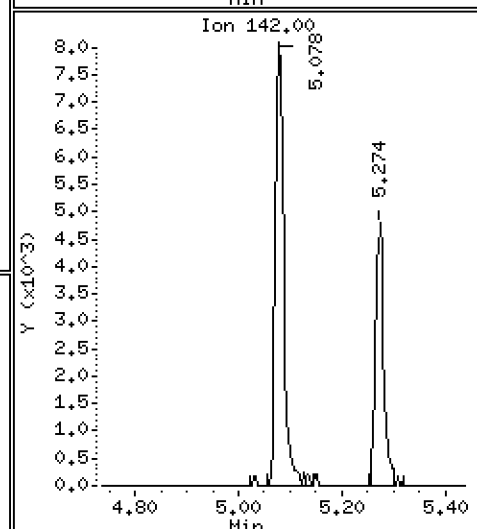
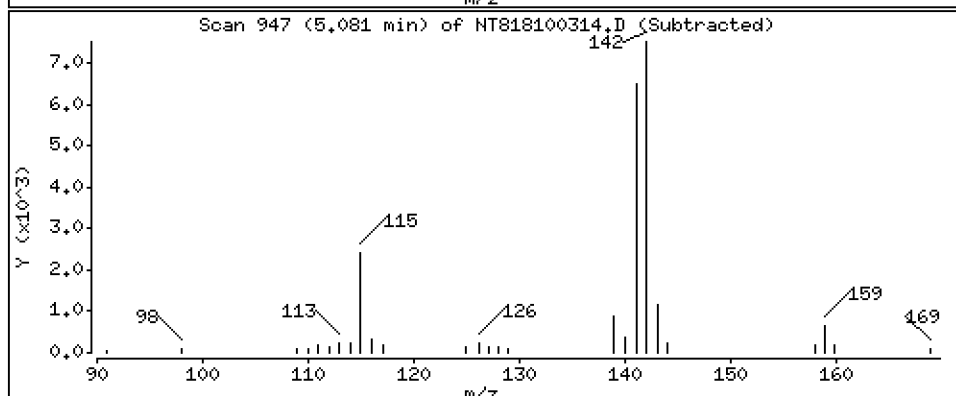
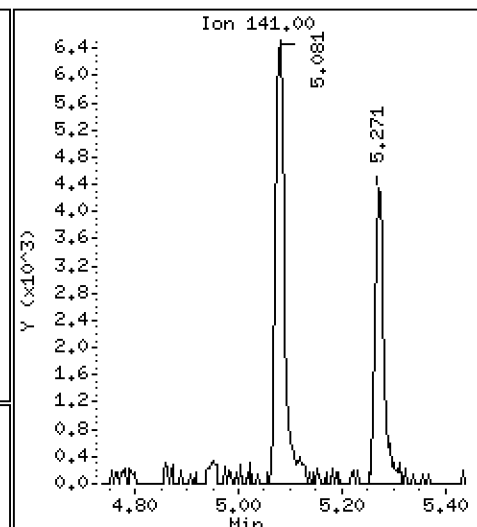
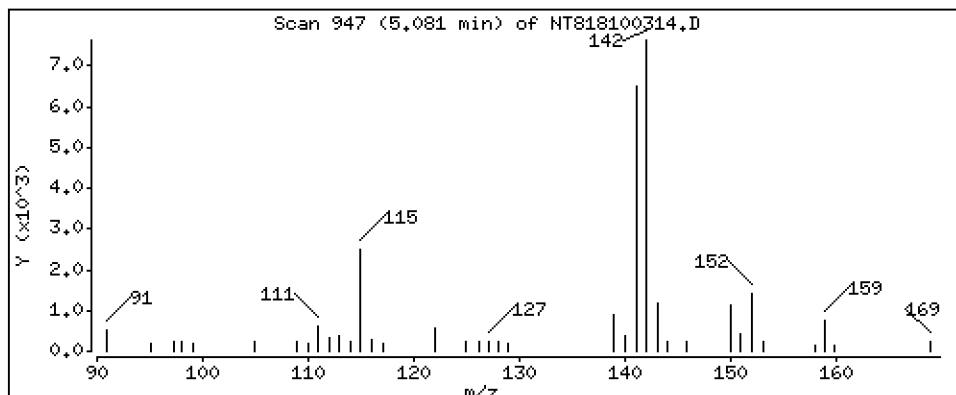
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4-Methylnaphthalene

Concentration: 0.1552 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

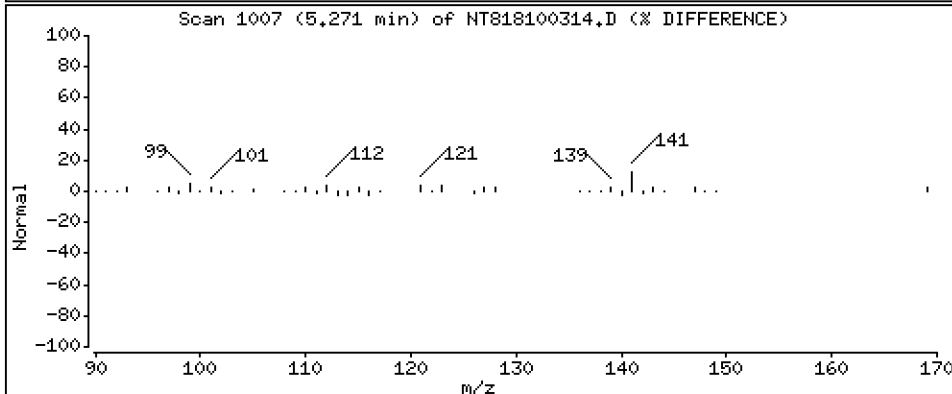
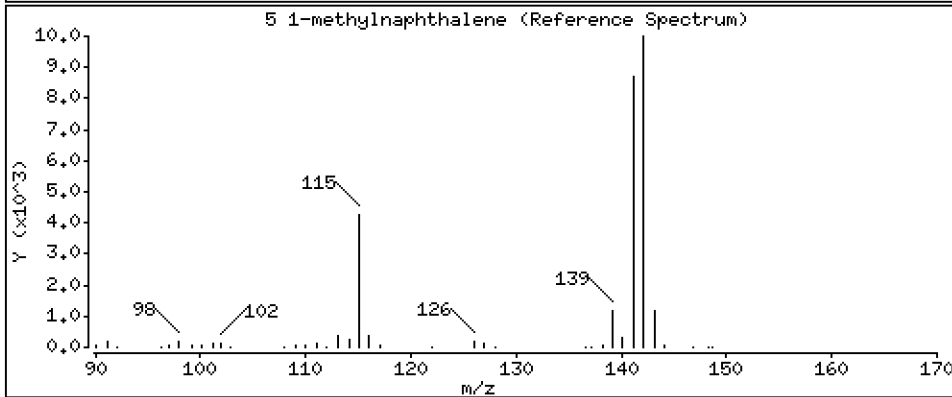
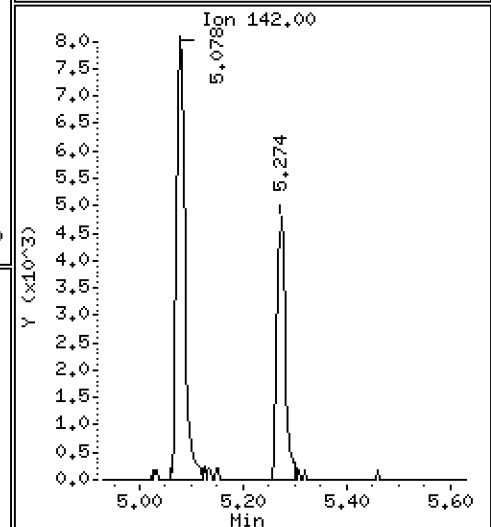
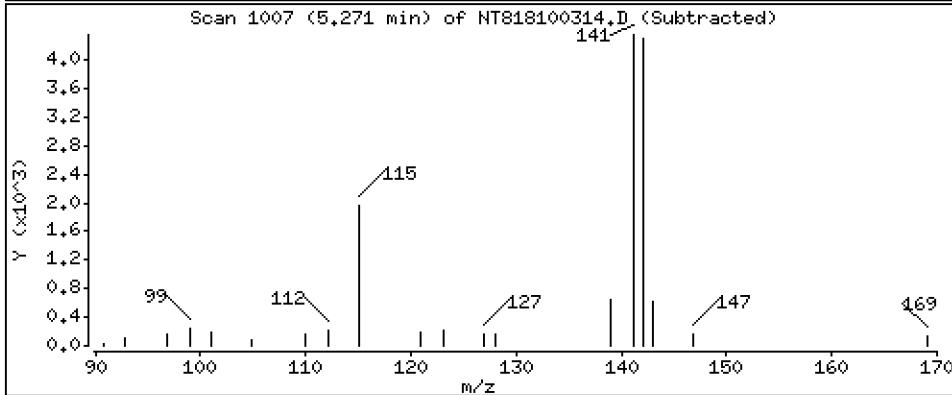
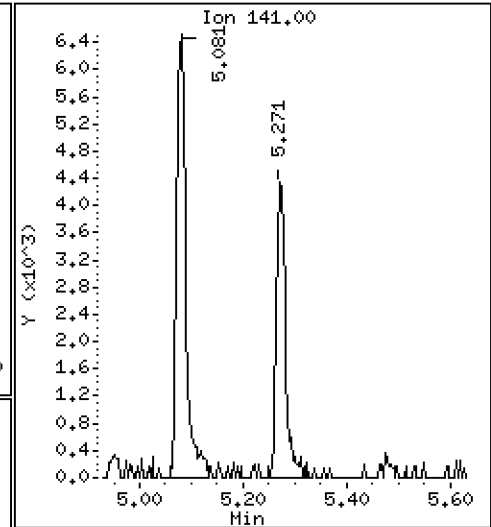
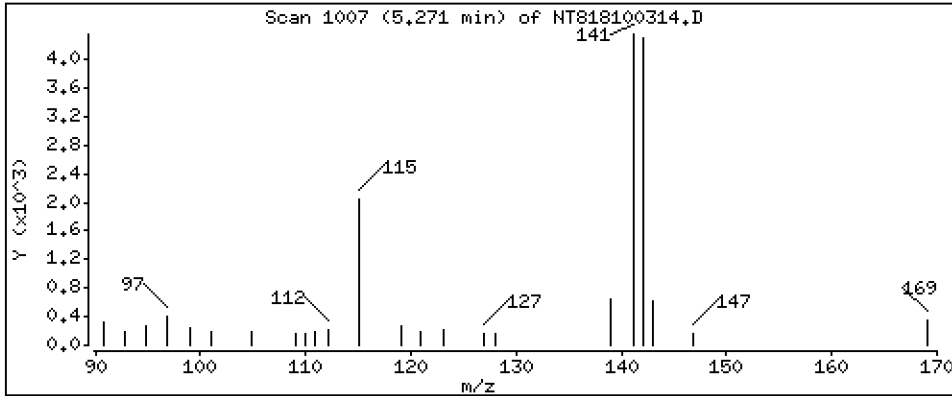
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

5 1-methylnaphthalene

Concentration: 0.09749 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

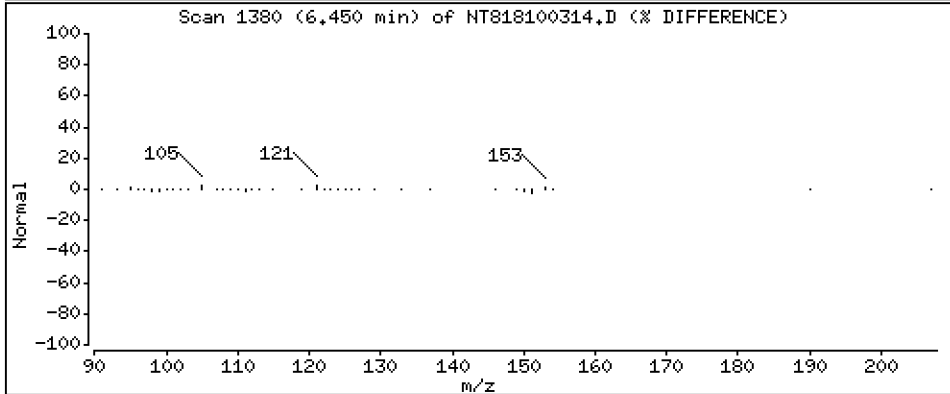
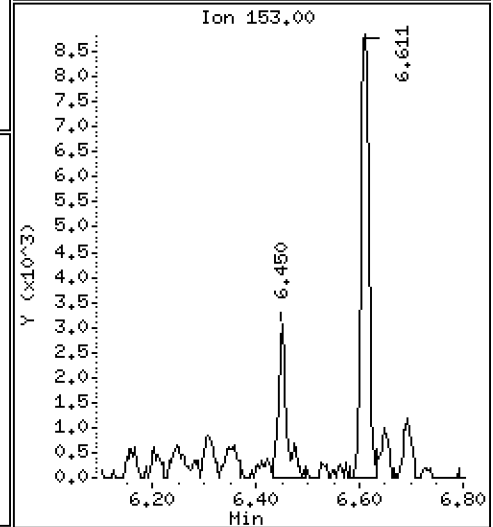
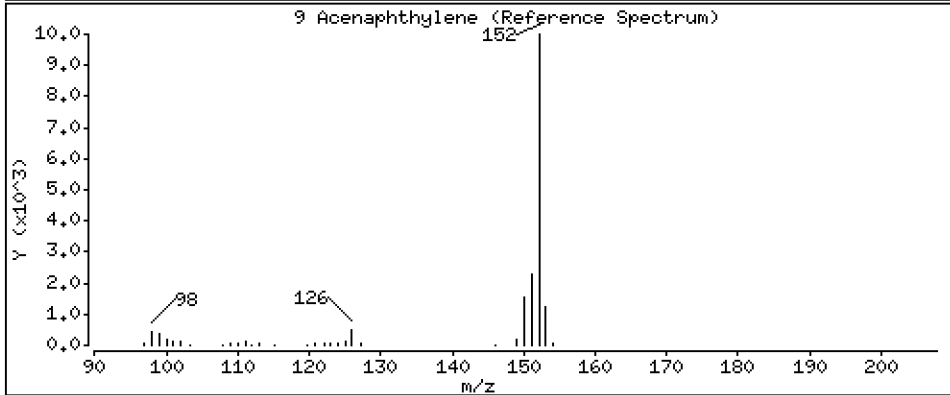
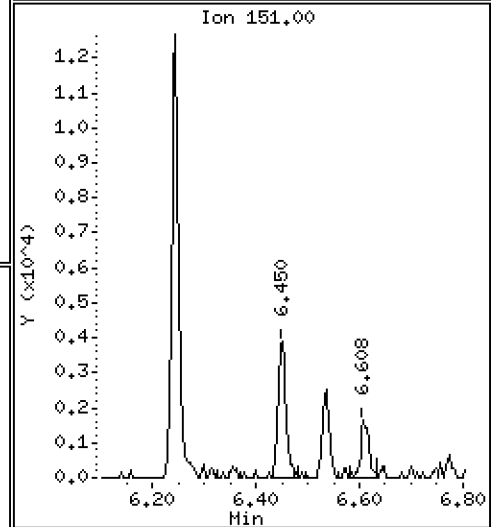
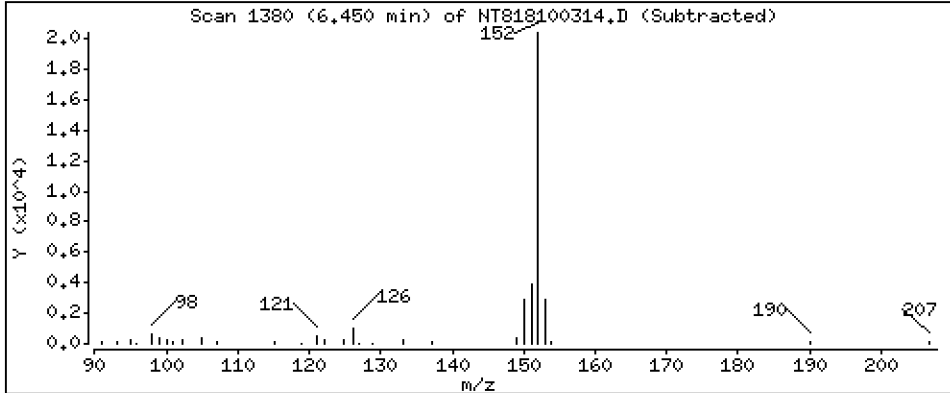
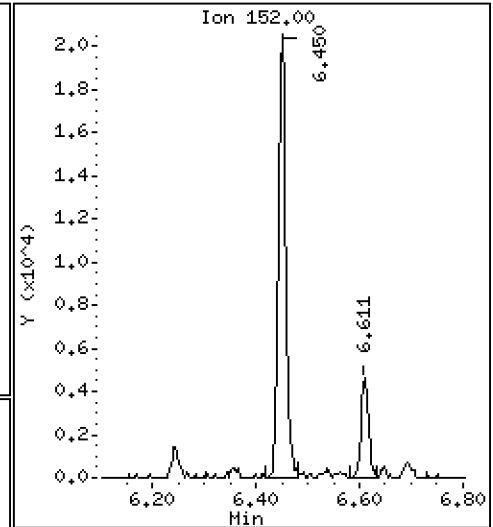
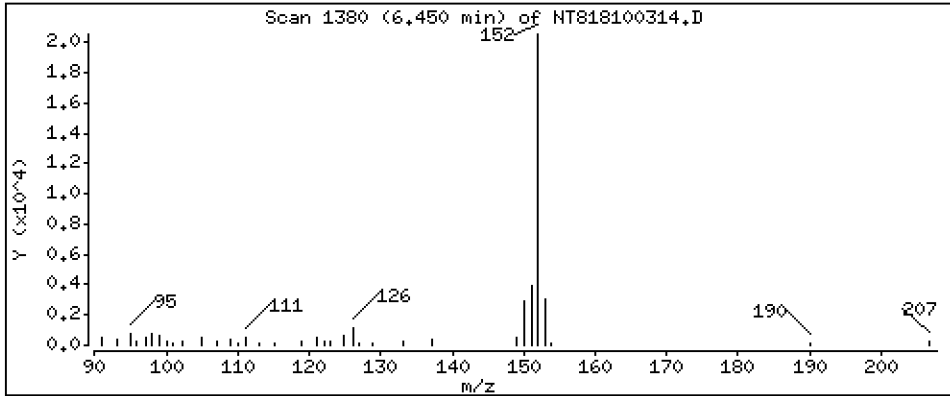
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

9 Acenaphthylene

Concentration: 0.2192 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

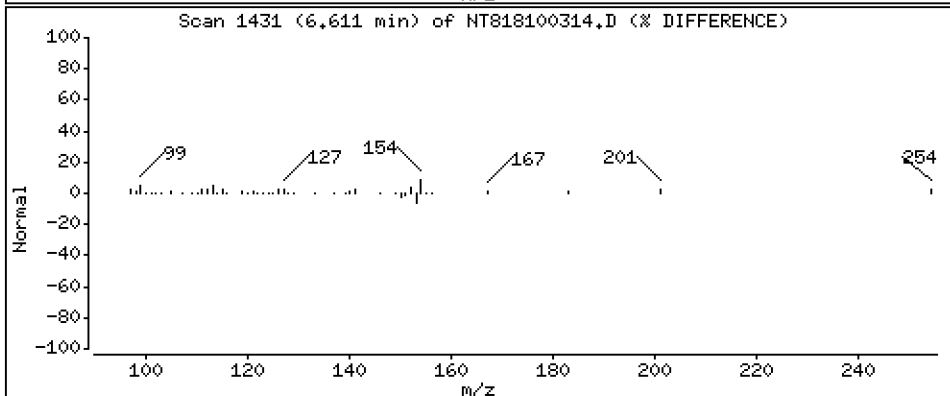
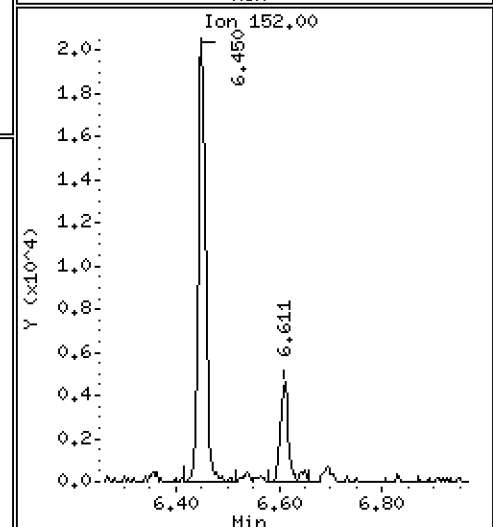
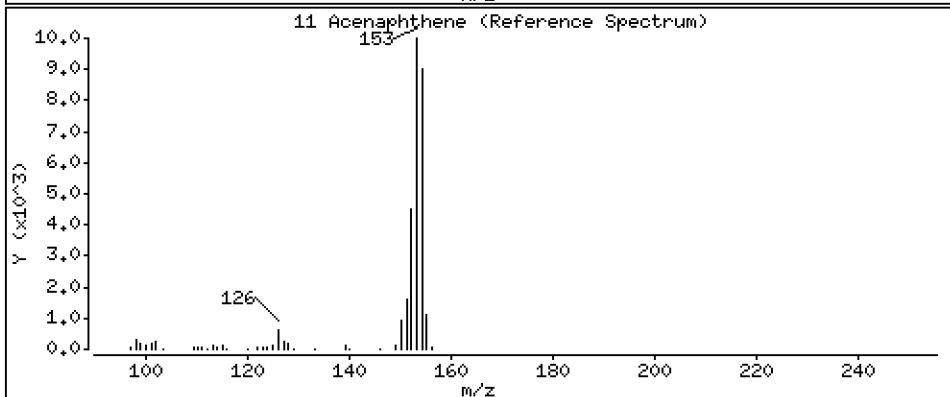
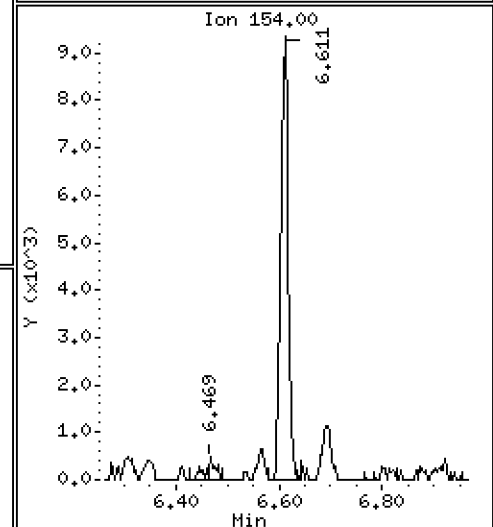
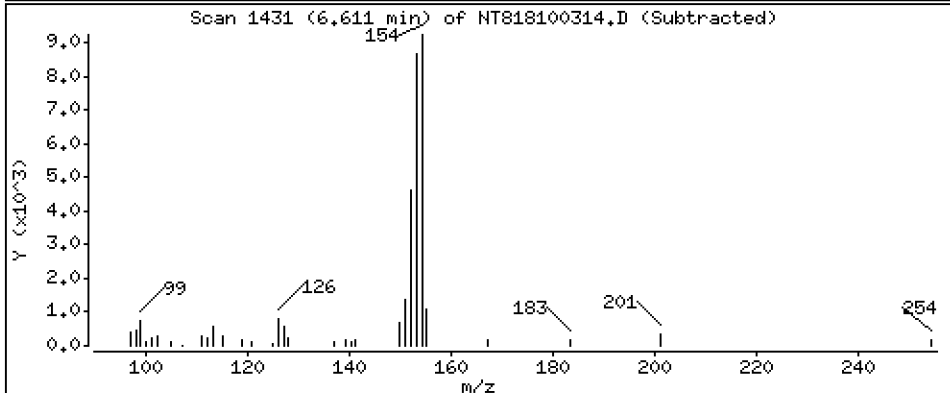
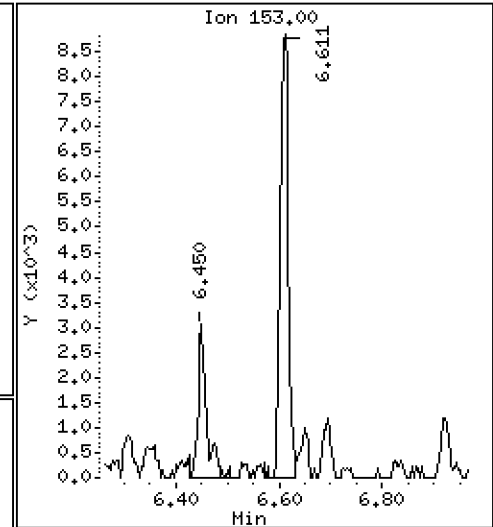
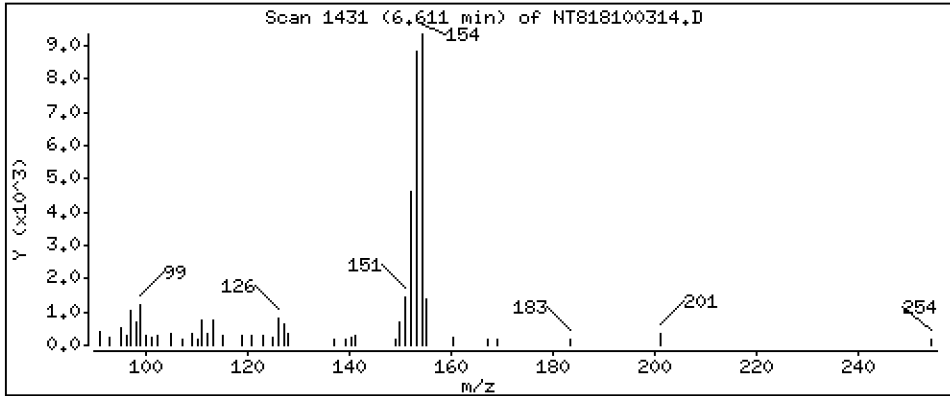
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

Concentration: 0.1504 ug/mL

11 Acenaphthene



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

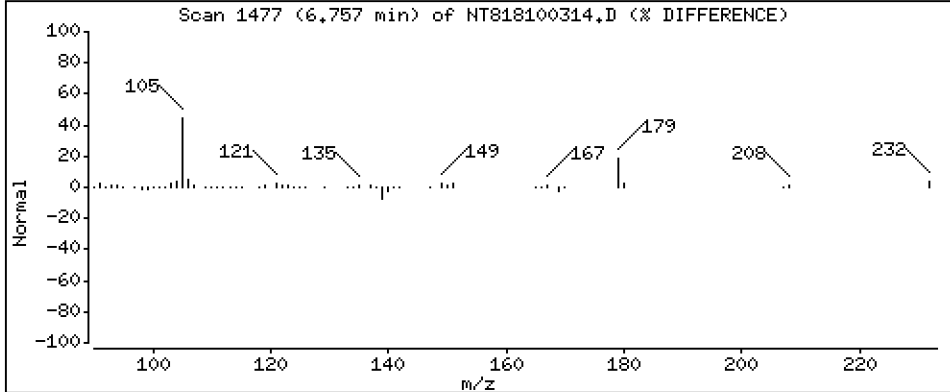
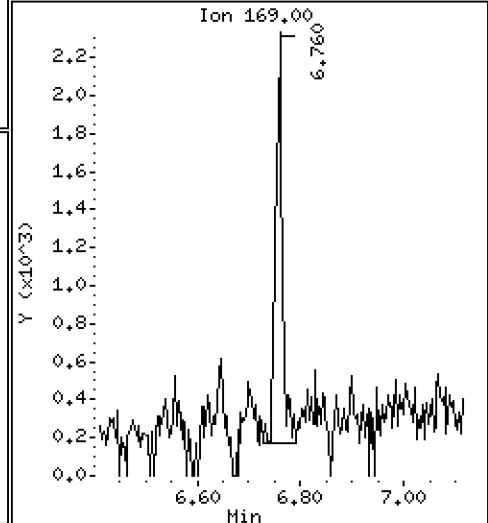
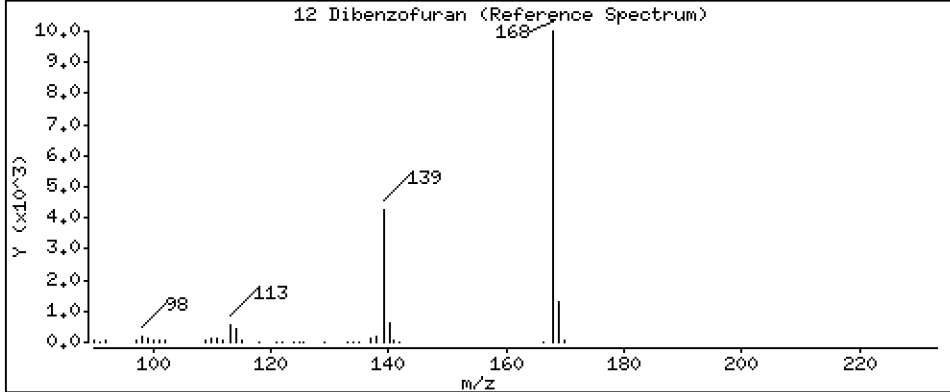
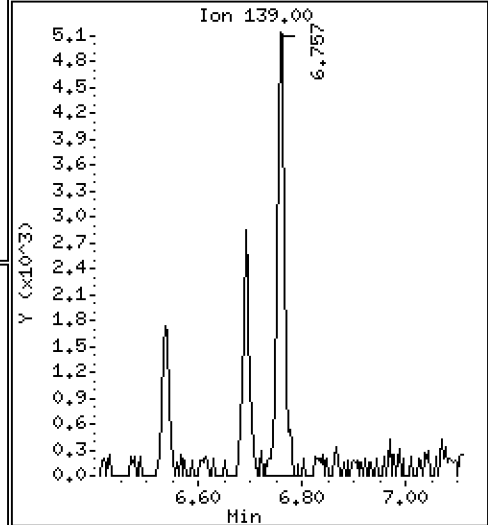
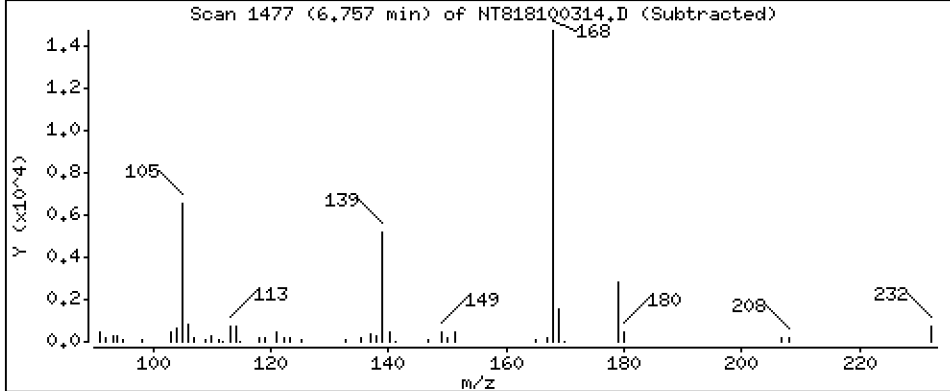
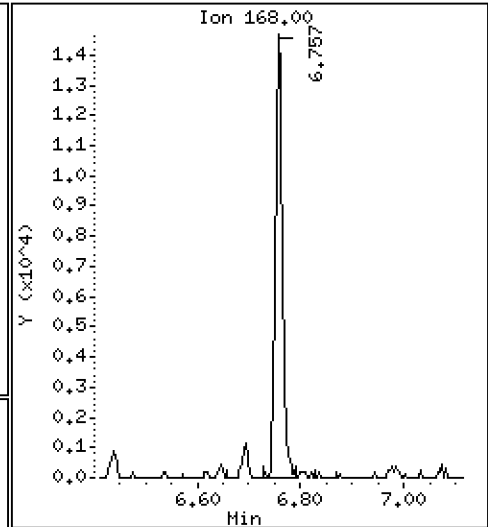
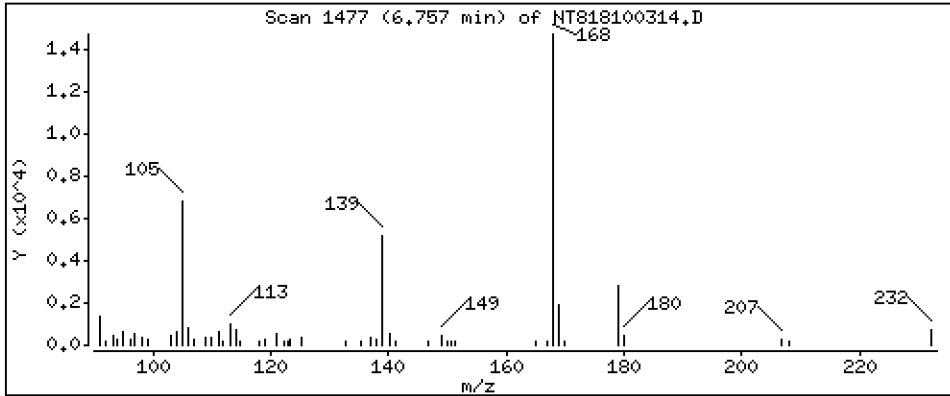
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

12 Dibenzofuran

Concentration: 0,1611 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

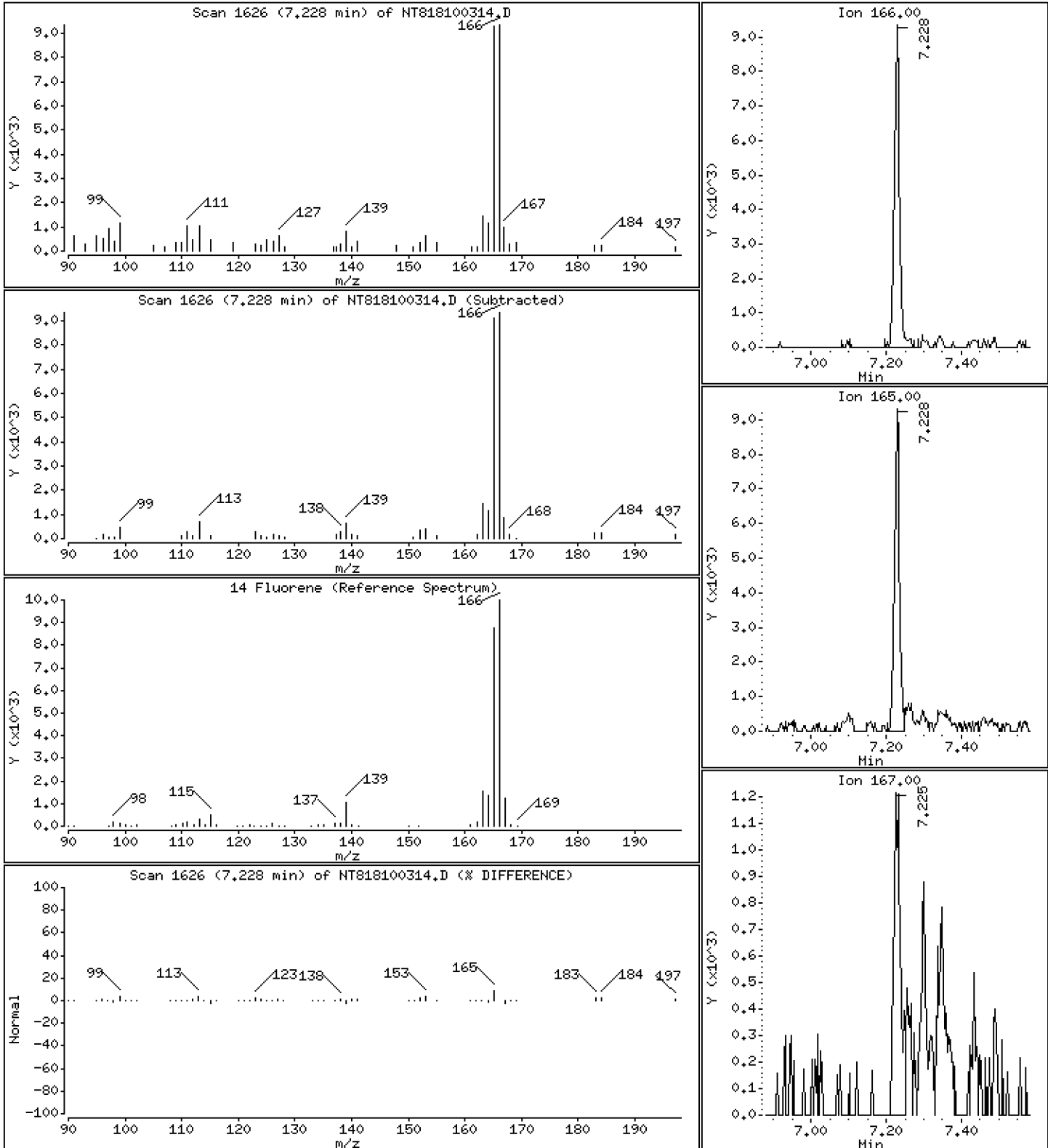
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

Concentration: 0.1212 ug/mL

14 Fluorene



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

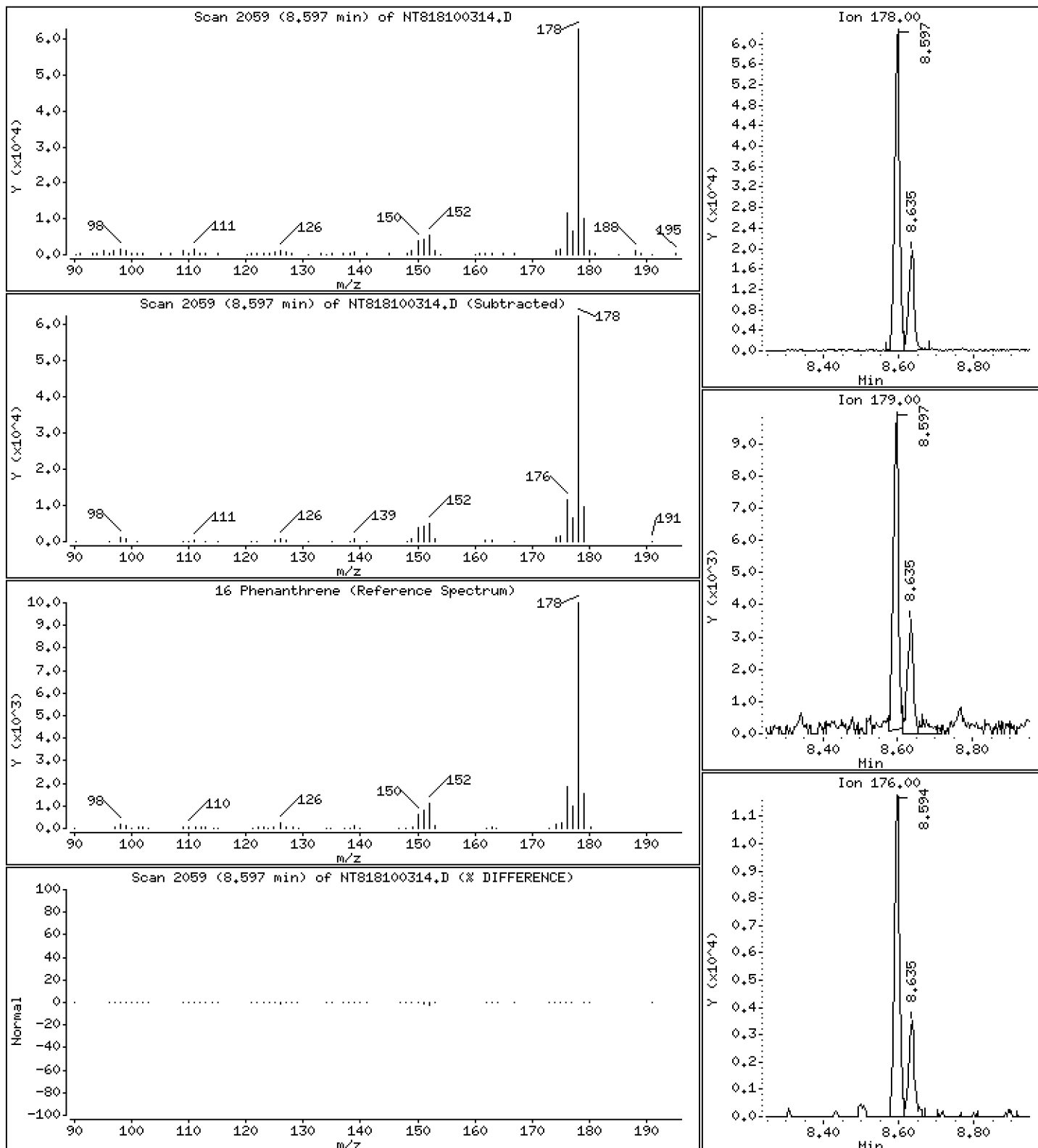
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

16 Phenanthrene

Concentration: 0,6432 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

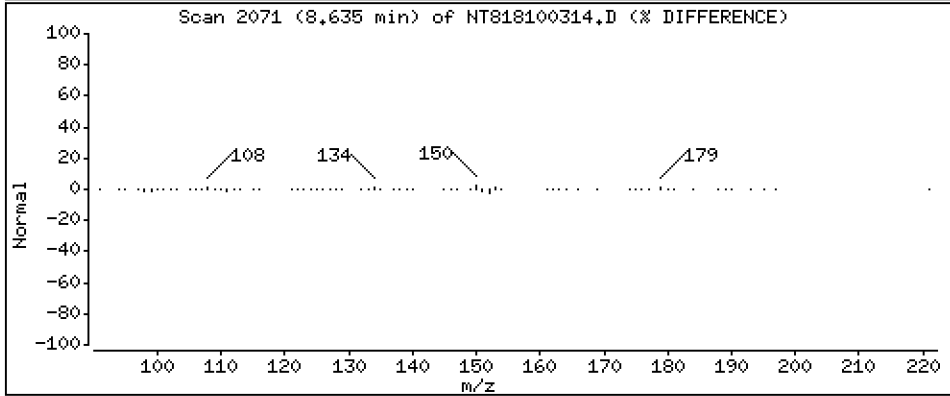
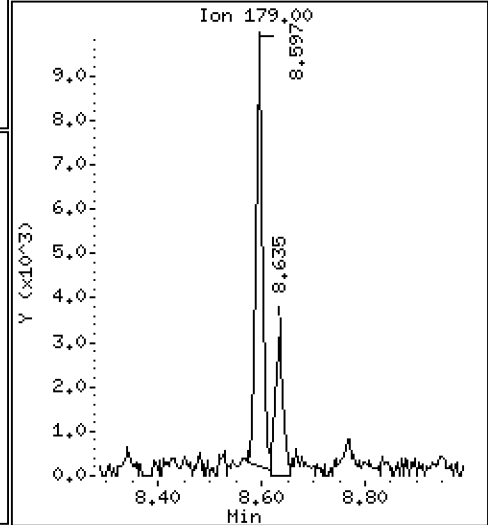
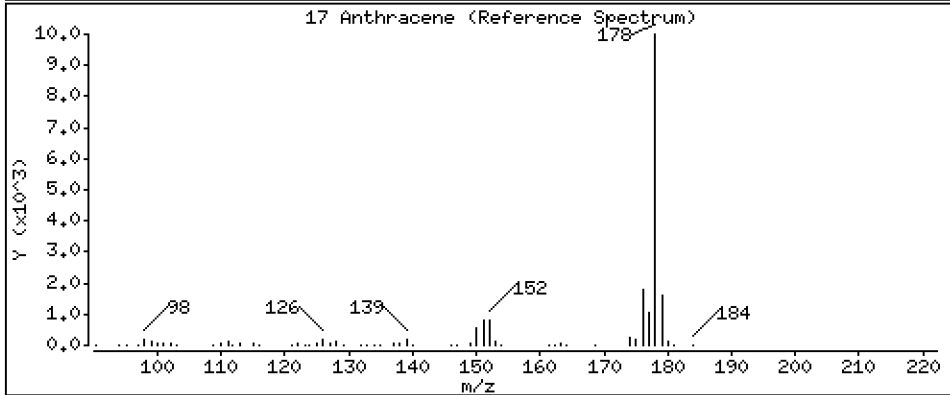
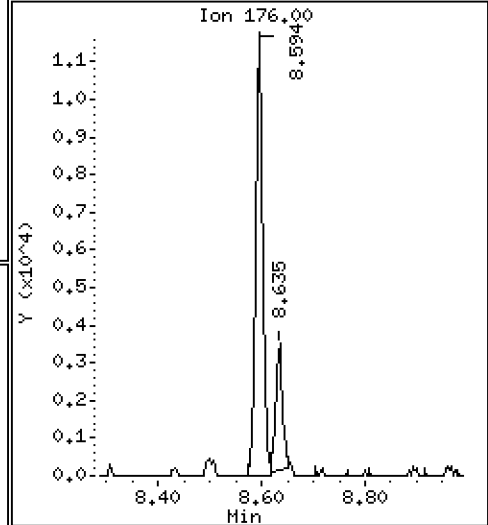
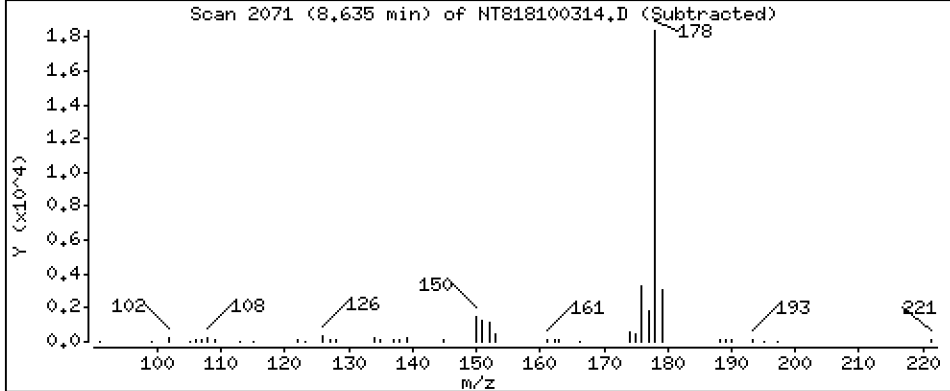
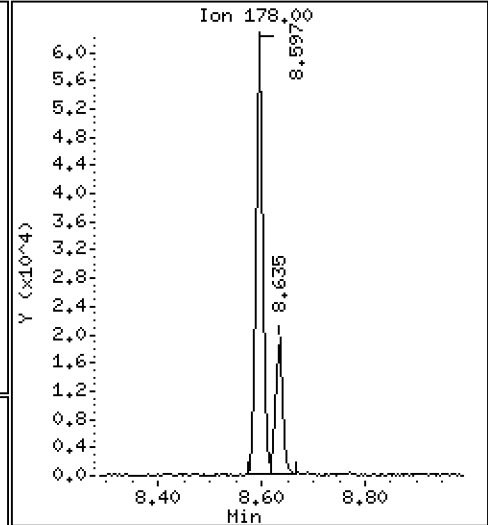
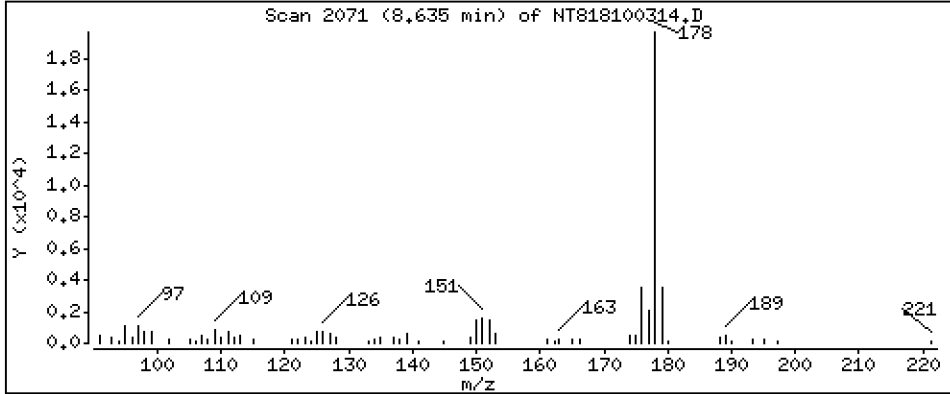
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

17 Anthracene

Concentration: 0.2143 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

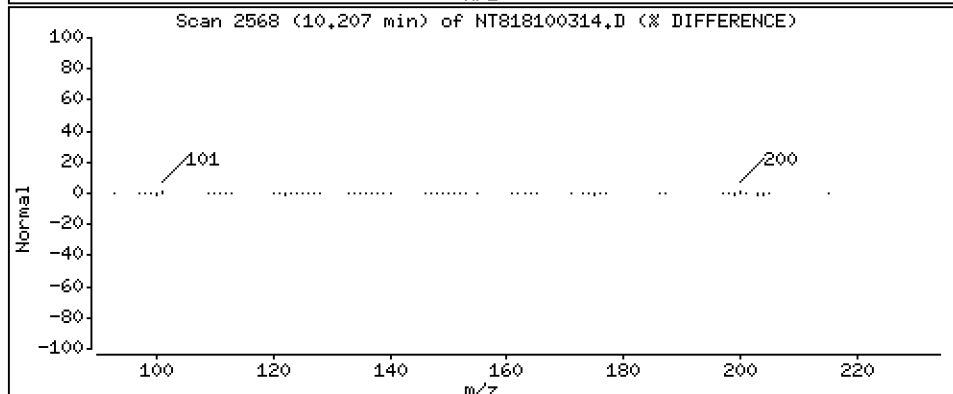
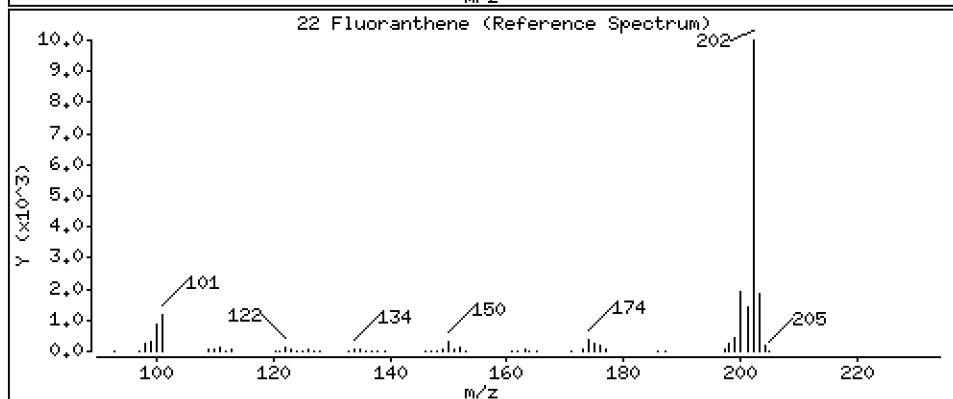
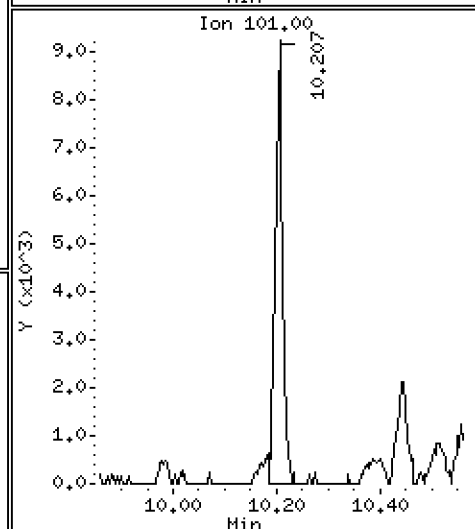
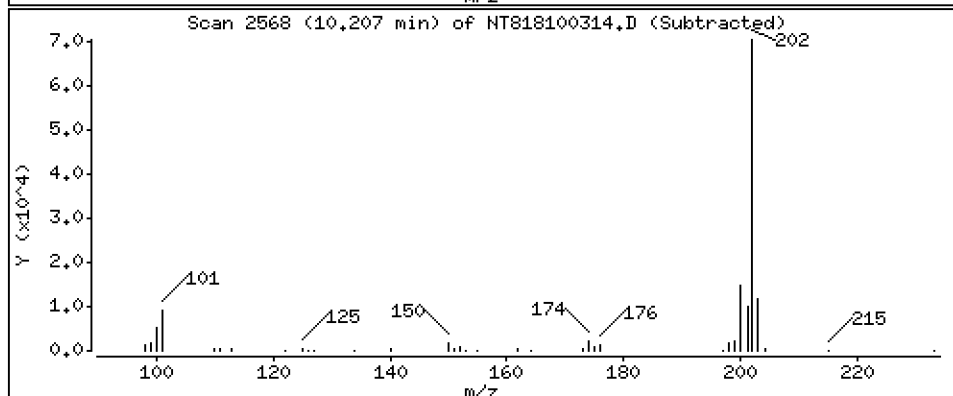
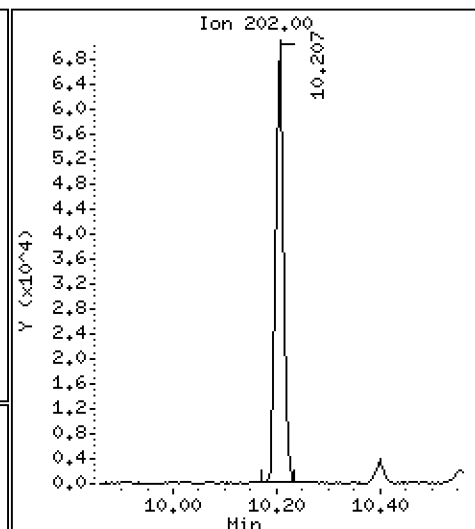
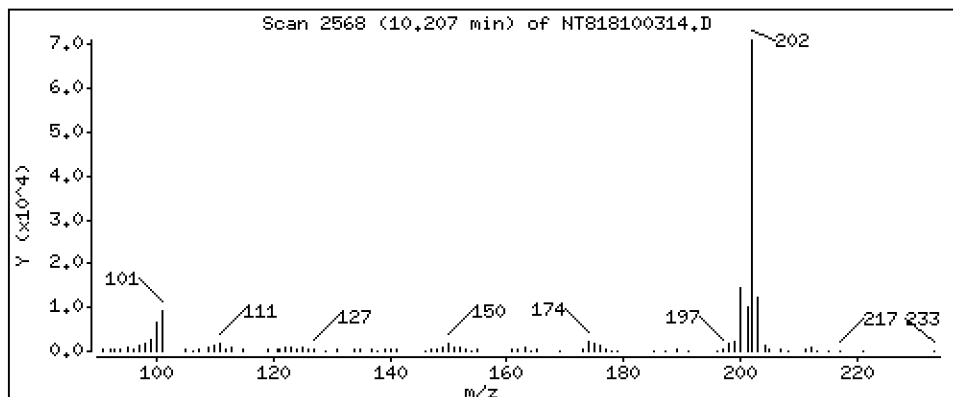
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 0,7085 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

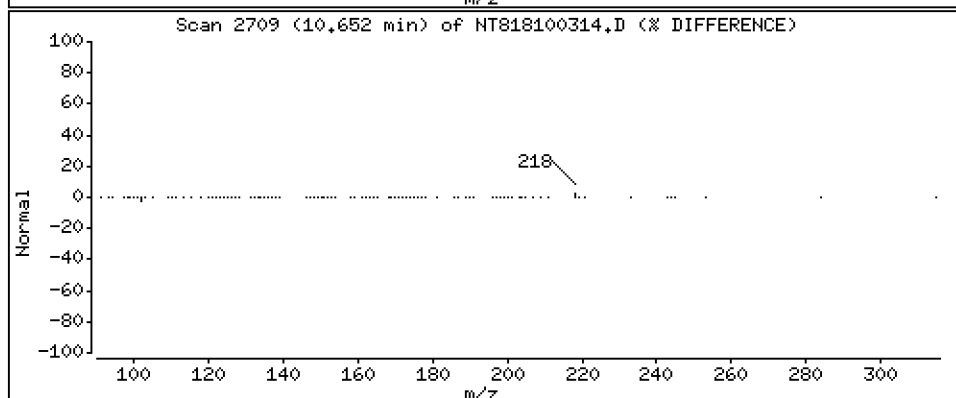
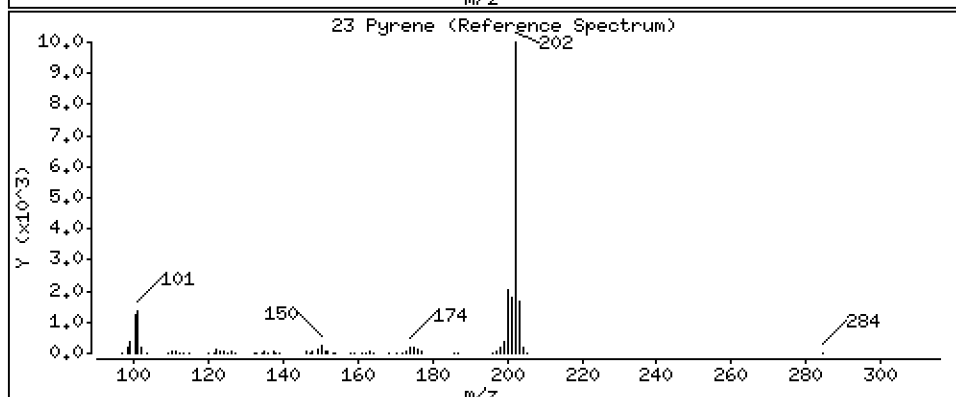
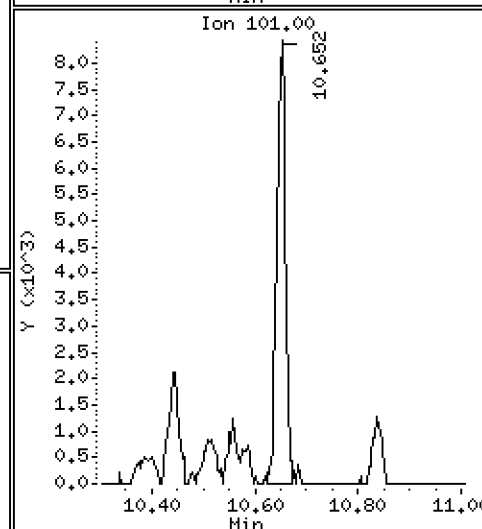
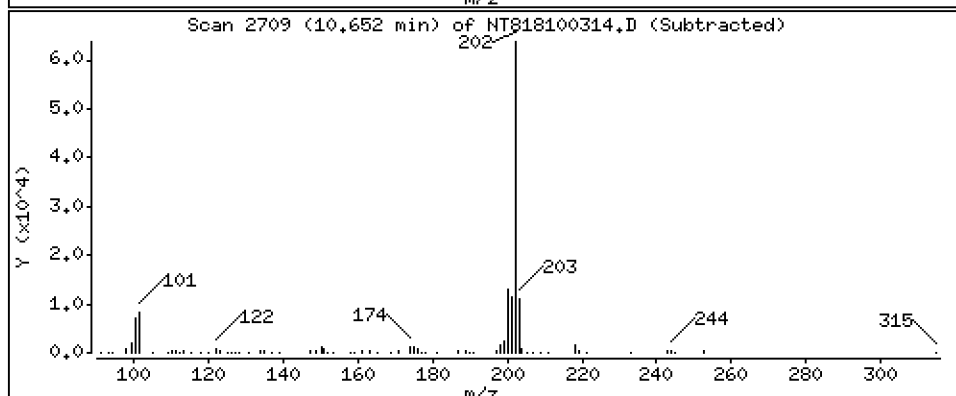
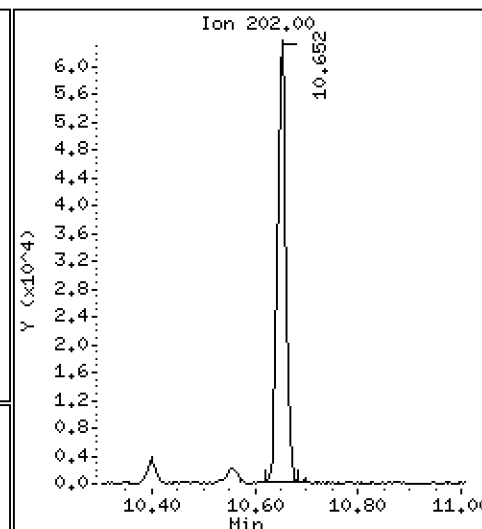
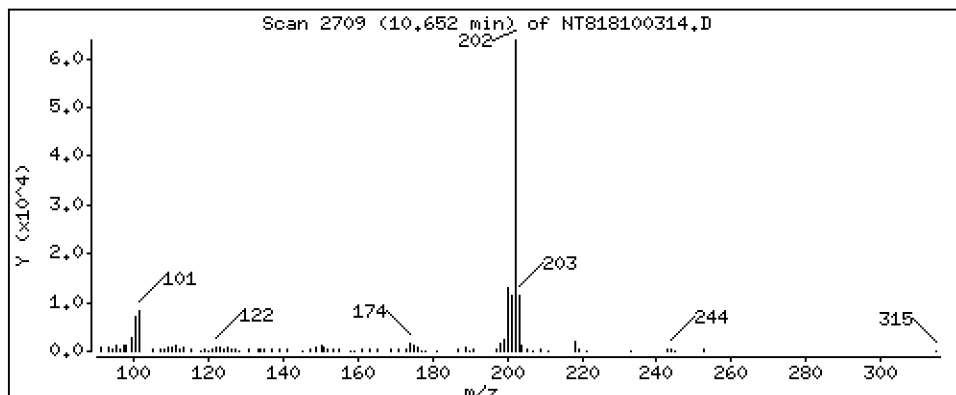
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 0,6386 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

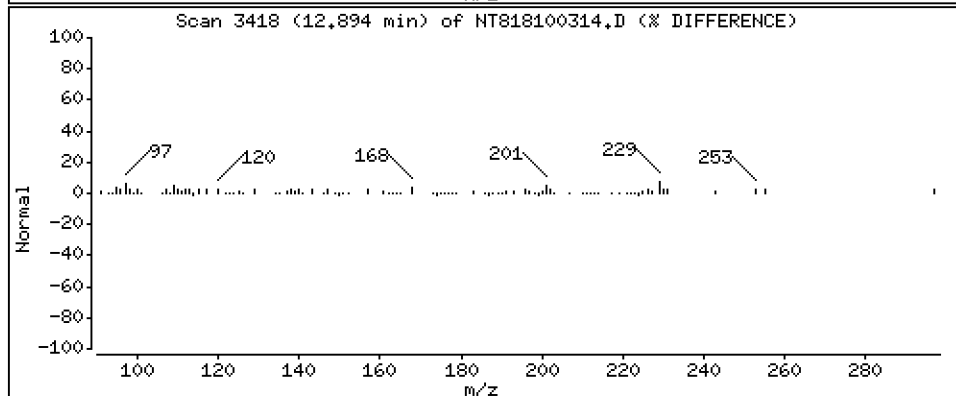
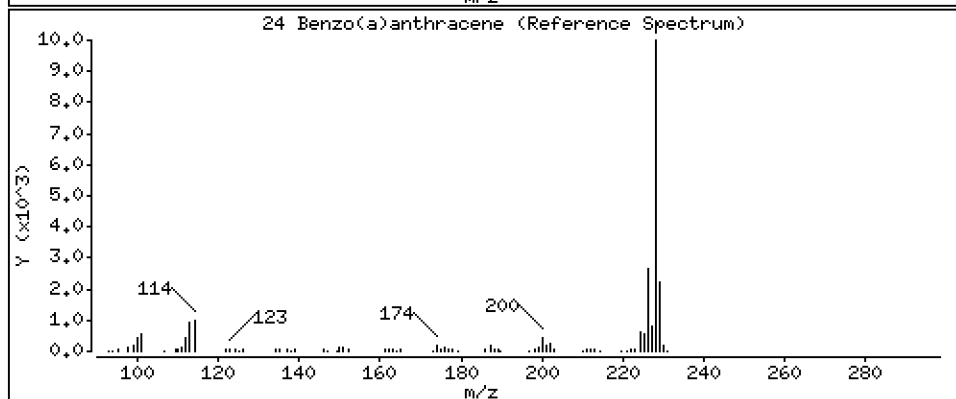
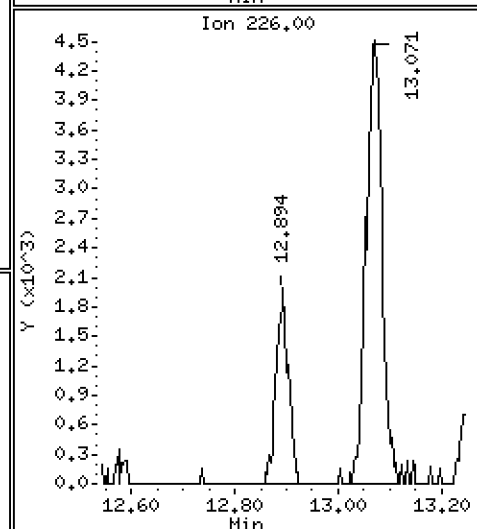
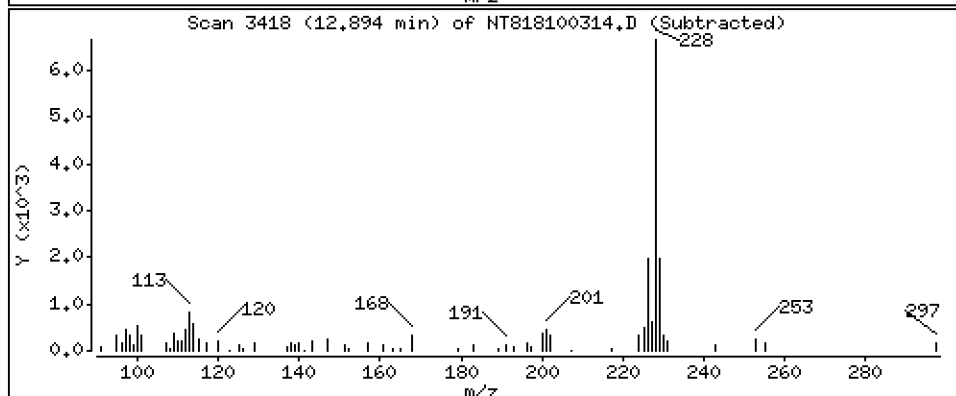
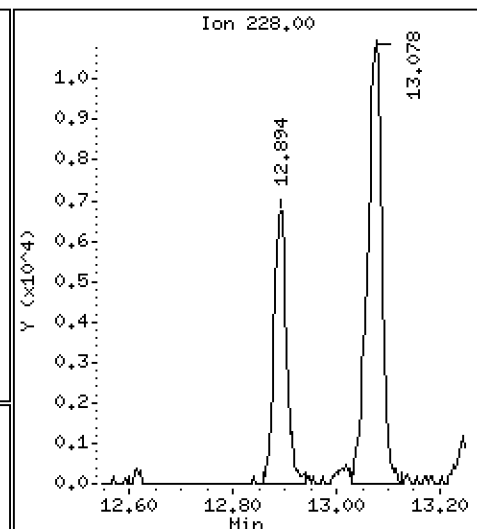
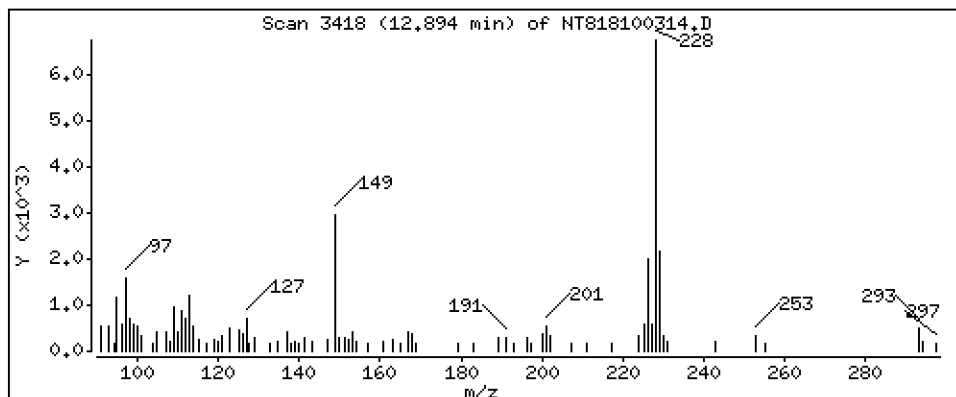
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 0,1056 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

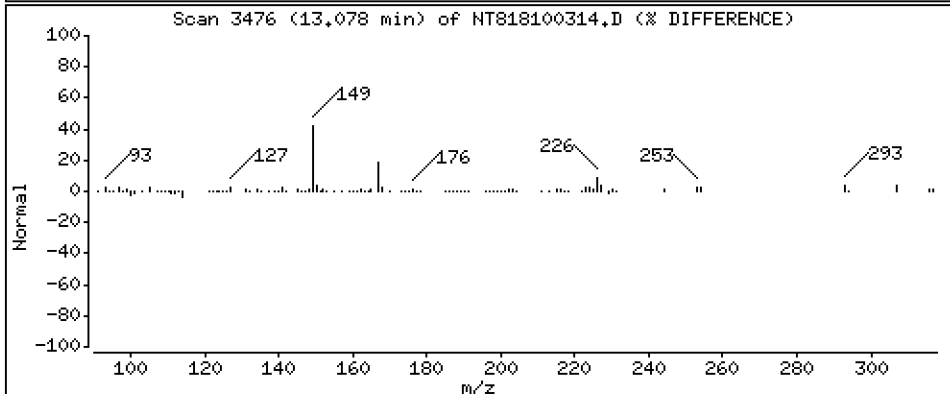
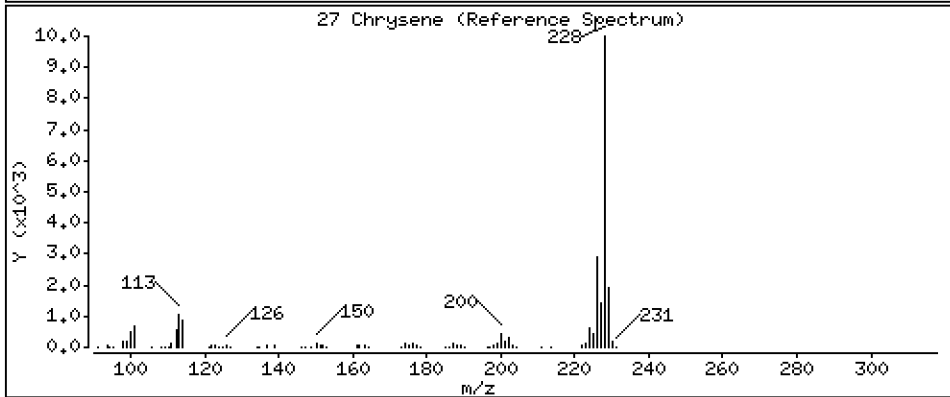
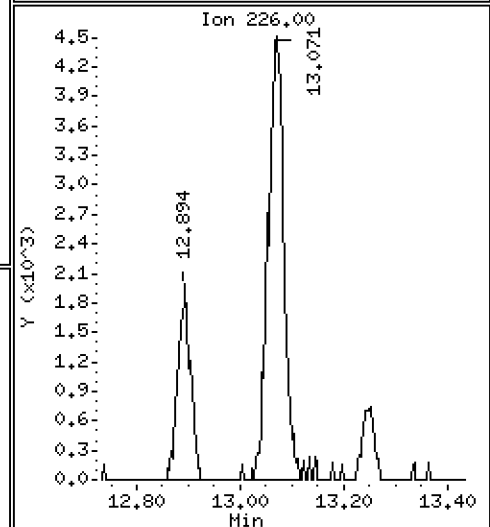
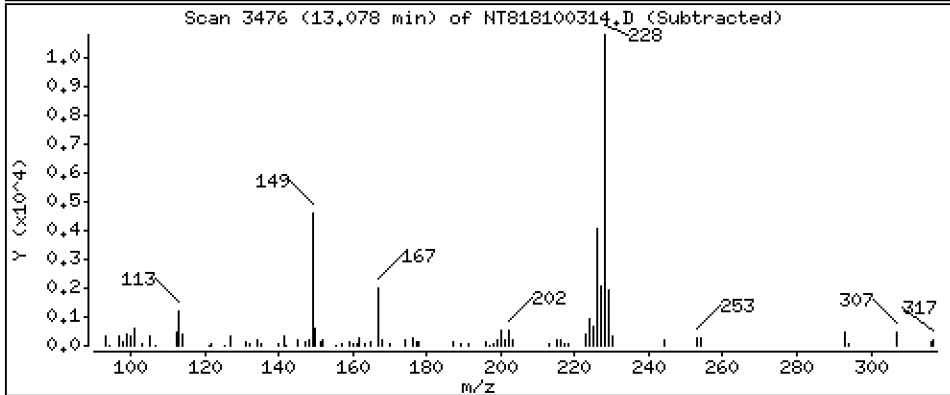
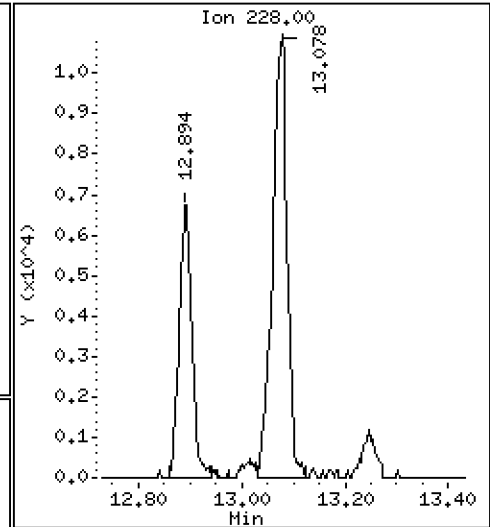
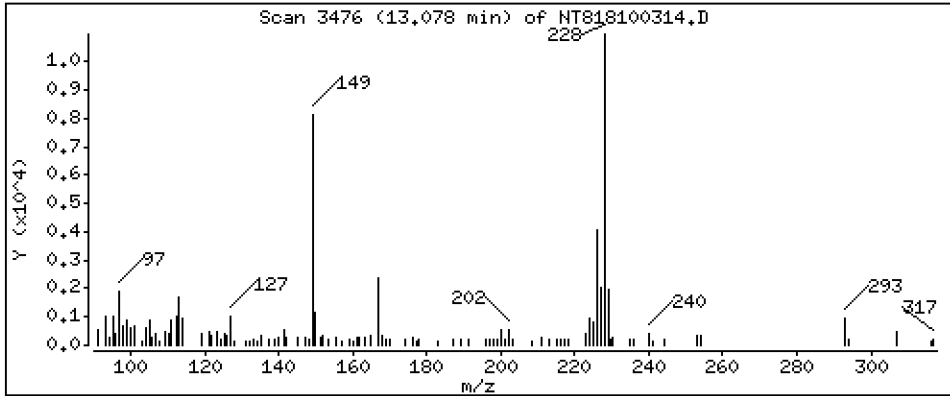
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,2101 ug/mL

27 Chrysene



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

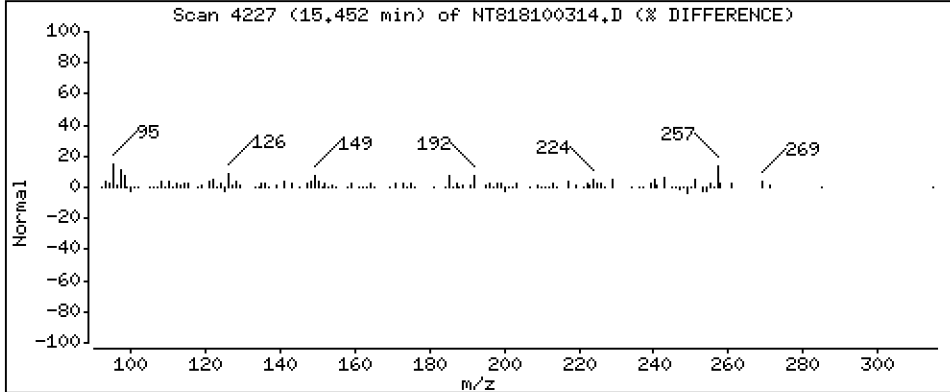
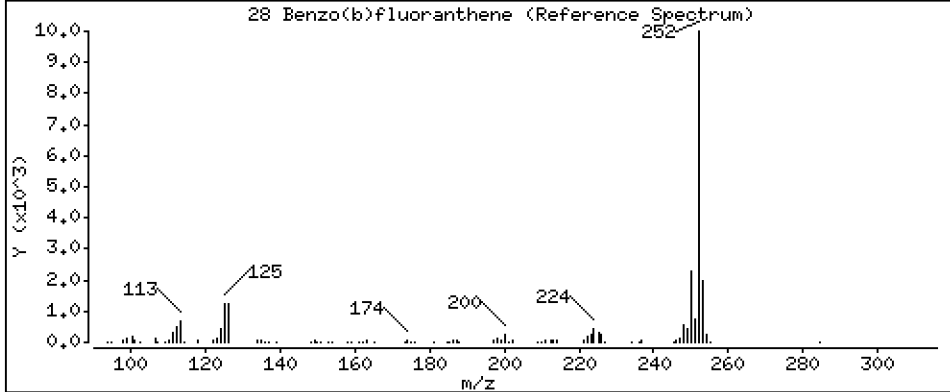
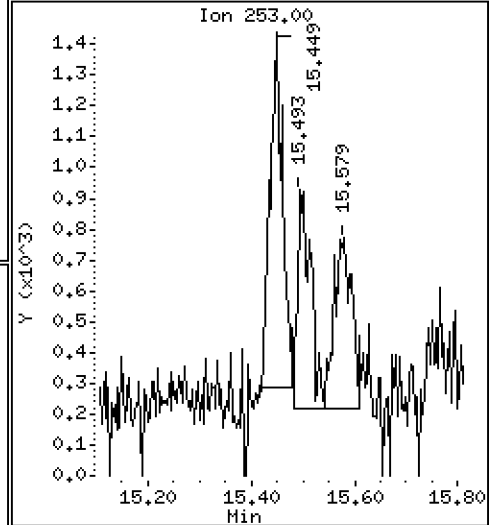
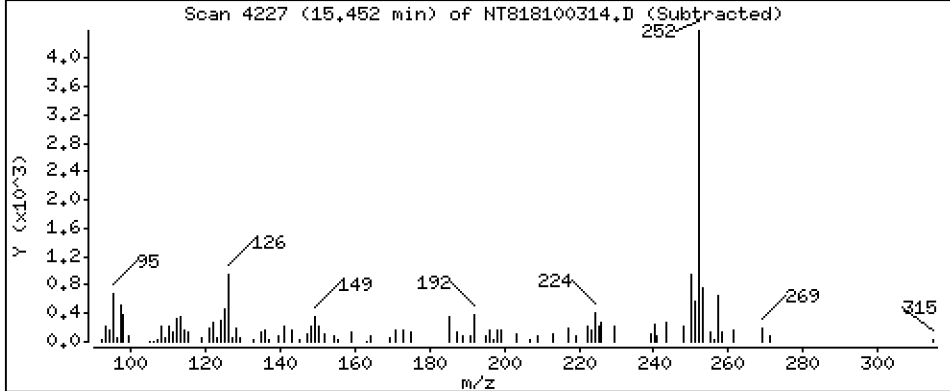
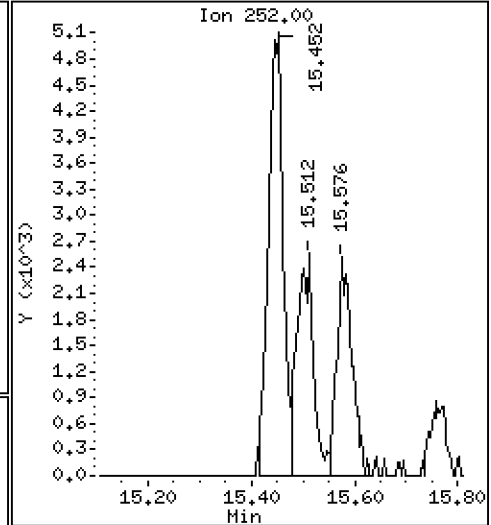
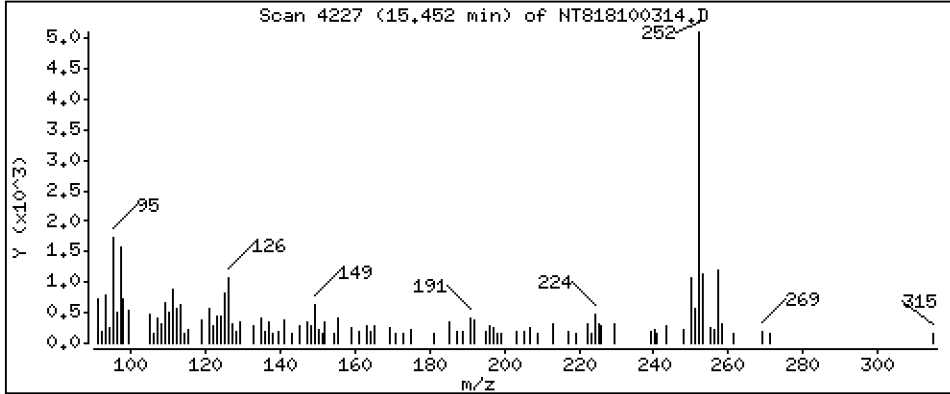
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 0,09016 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

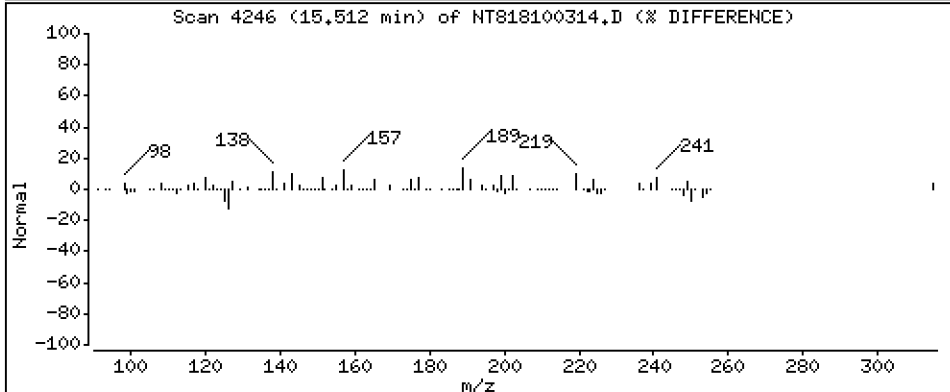
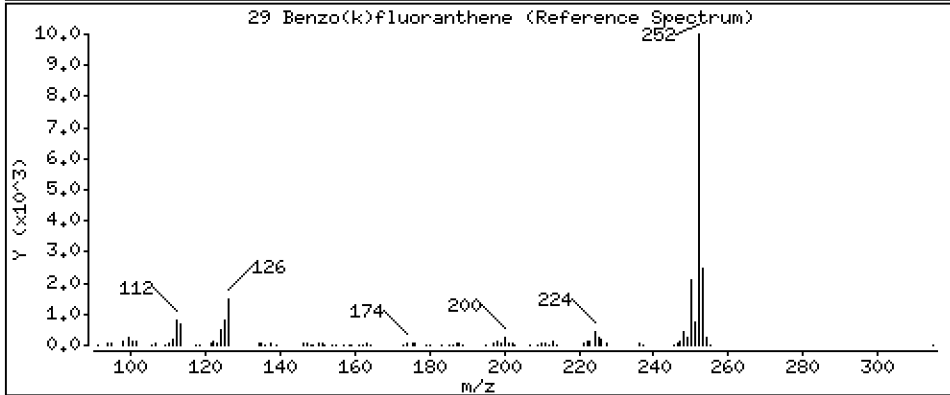
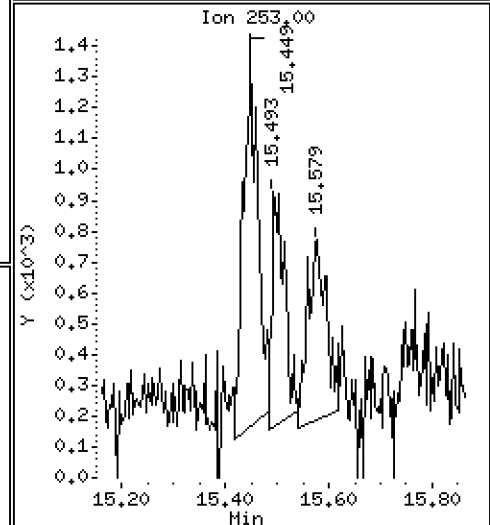
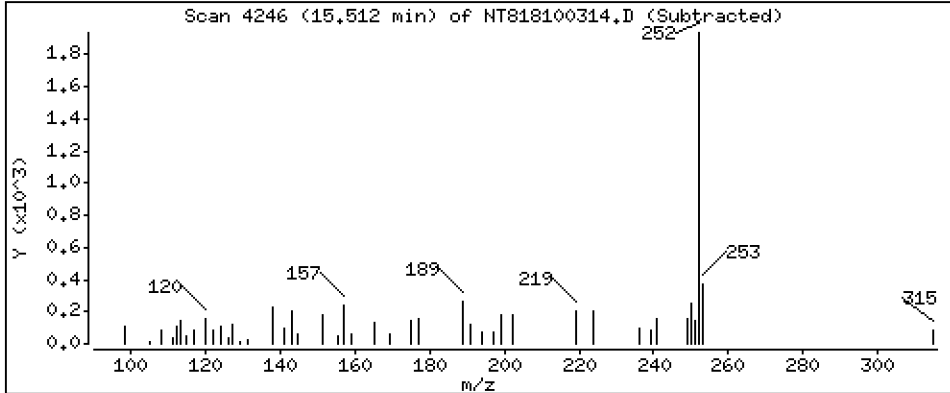
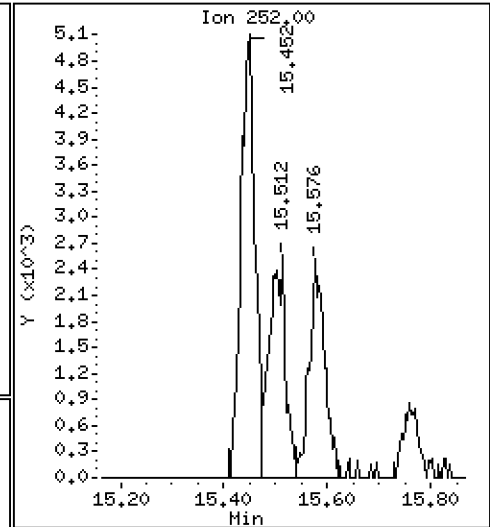
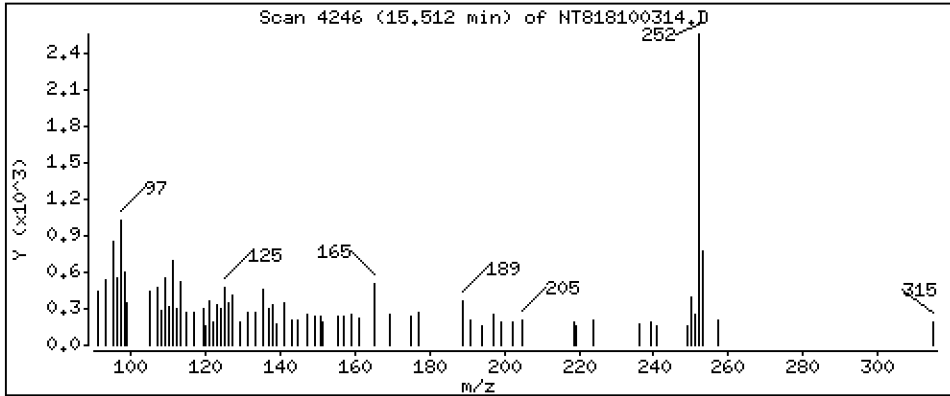
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 0,05093 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

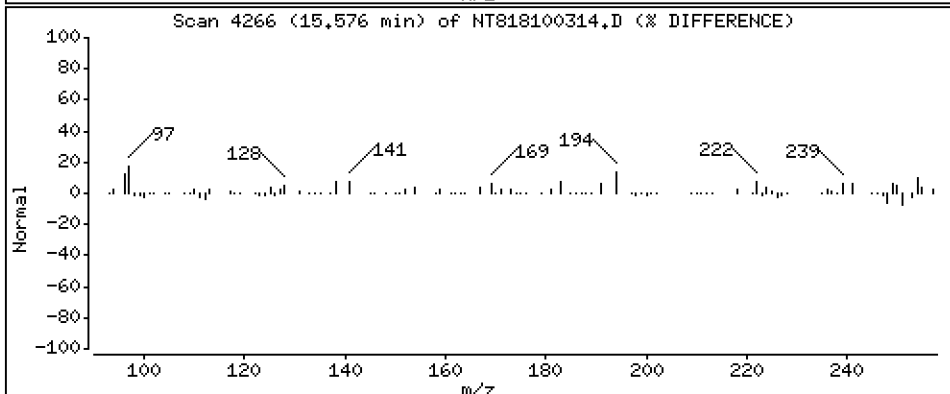
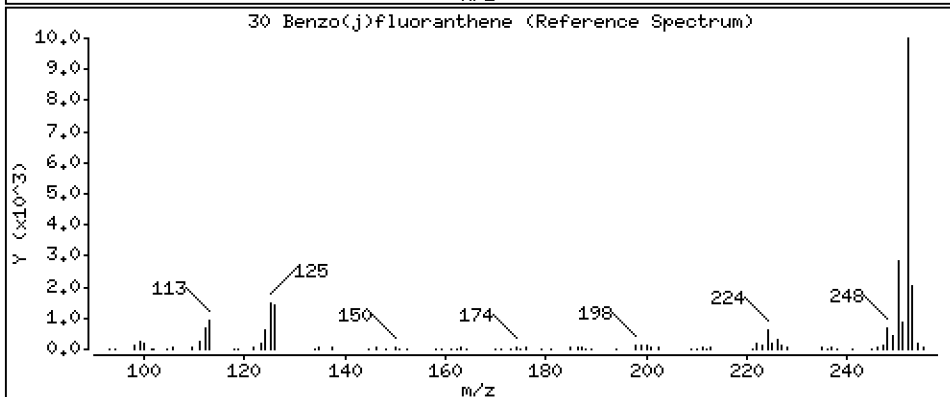
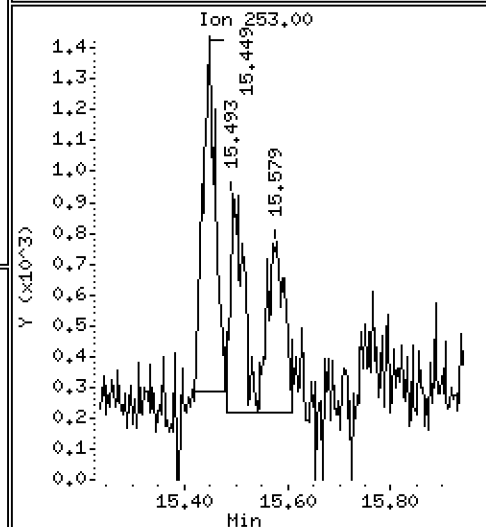
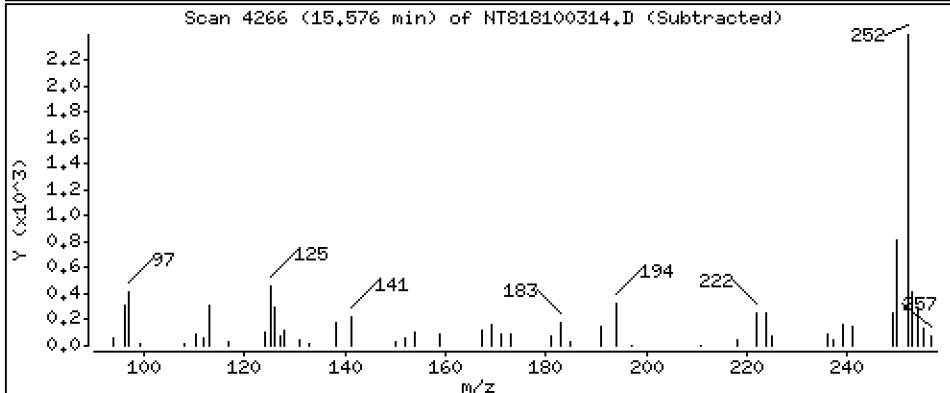
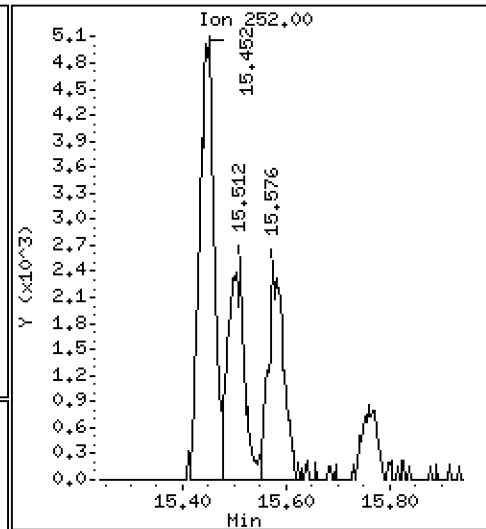
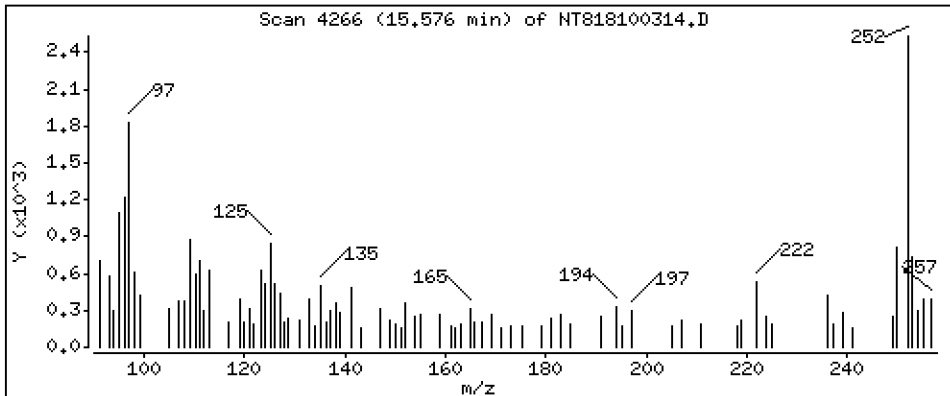
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 0,04887 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

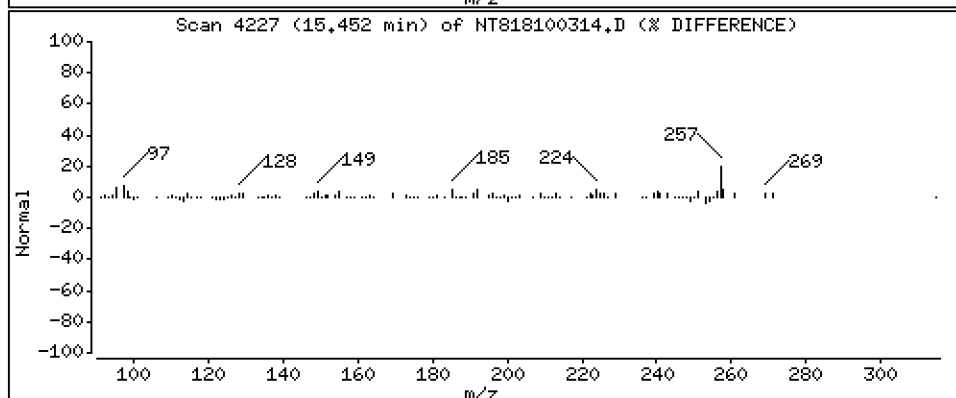
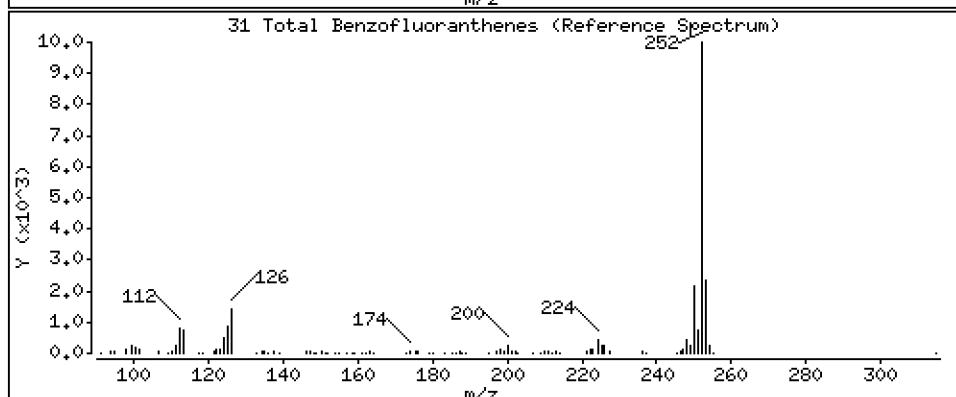
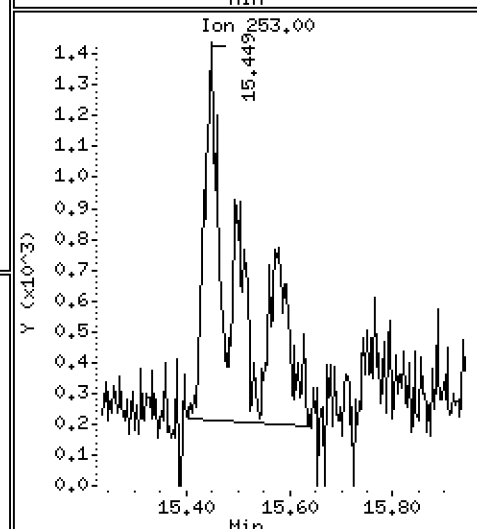
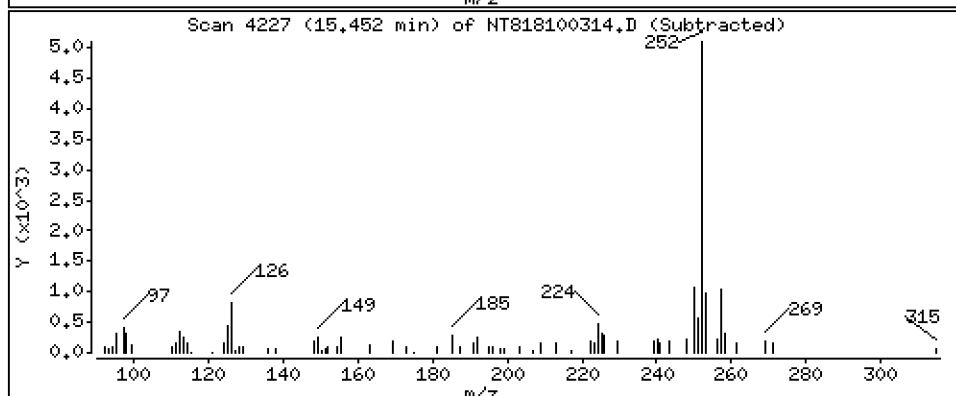
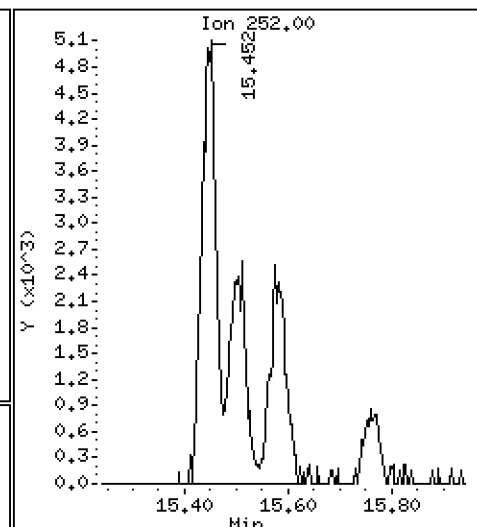
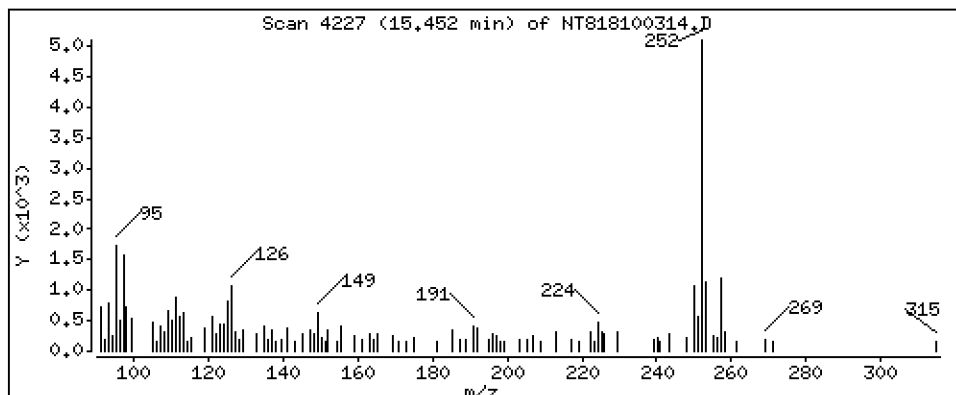
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 0,1911 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

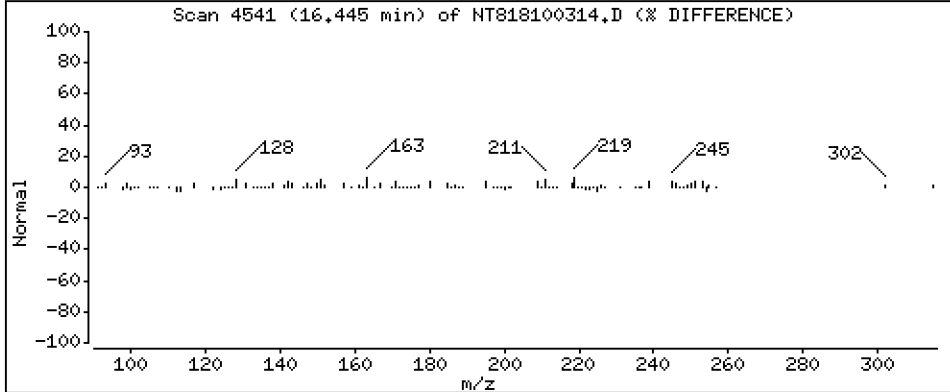
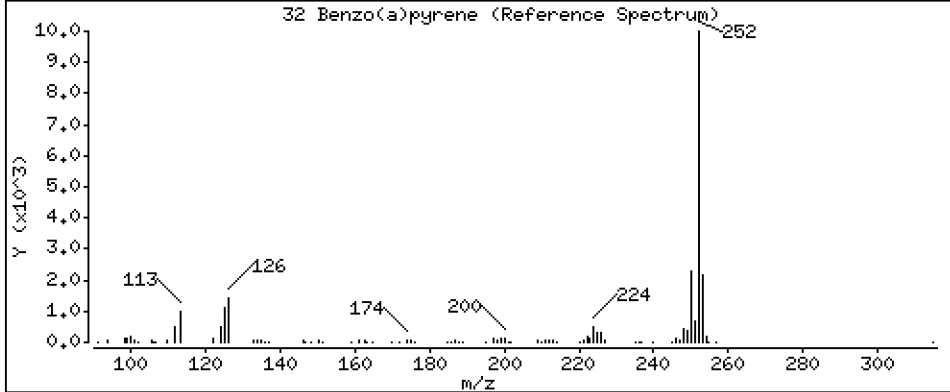
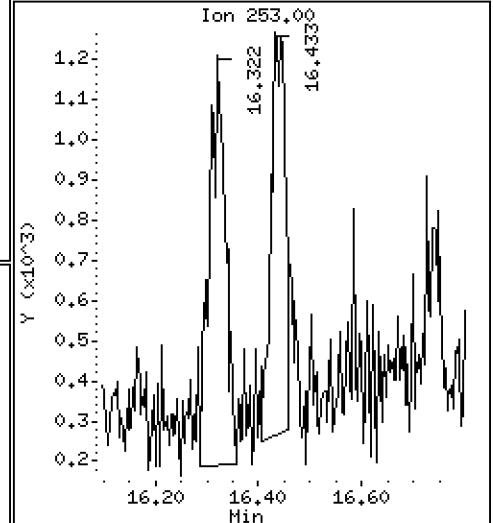
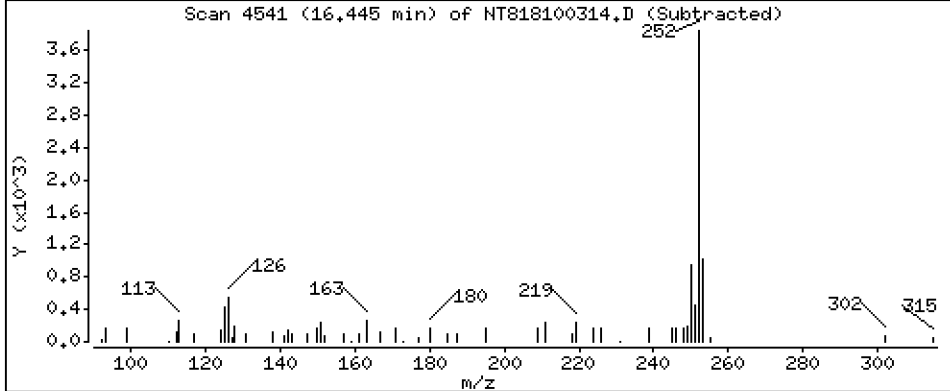
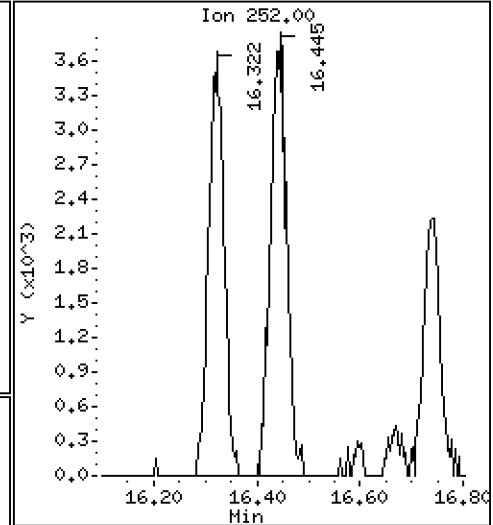
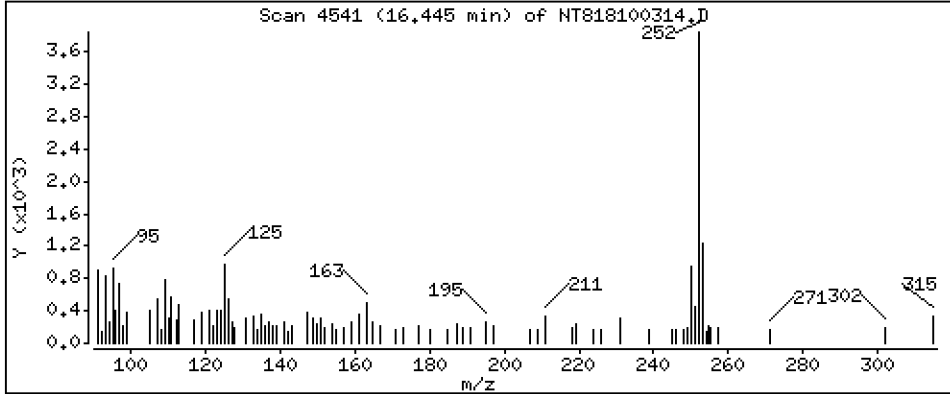
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 0,08394 ug/mL



Date : 03-OCT-2018 16:56

Client ID:

Instrument: nt8.i

Sample Info: 1810285-06

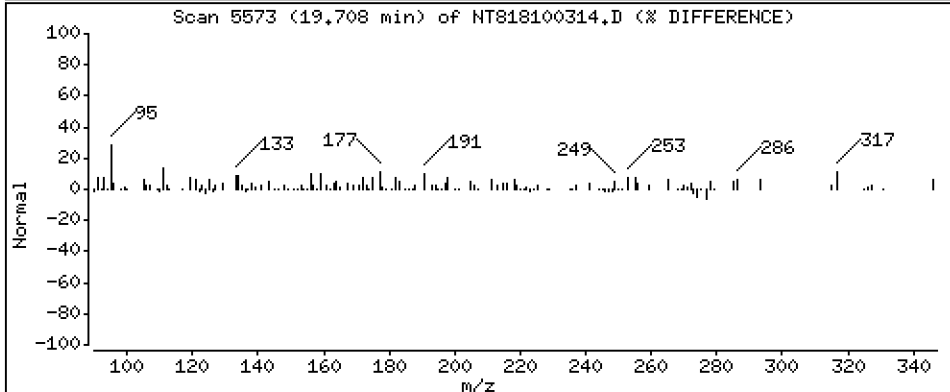
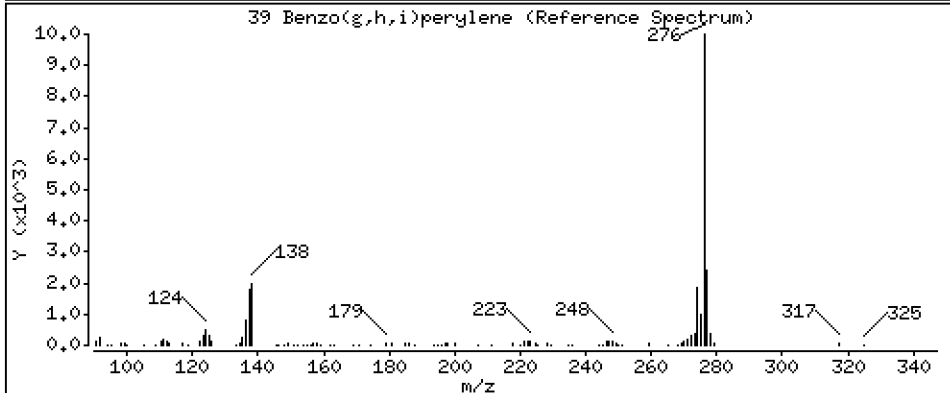
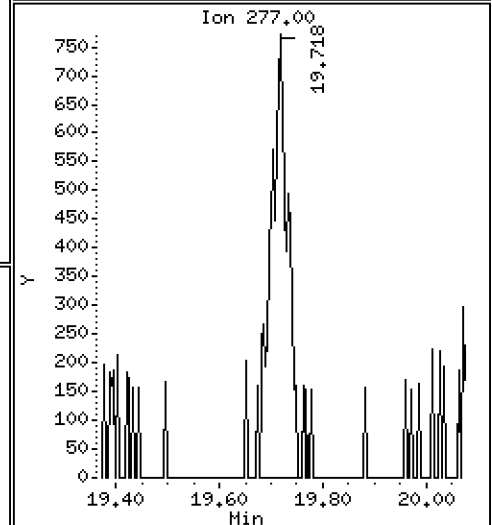
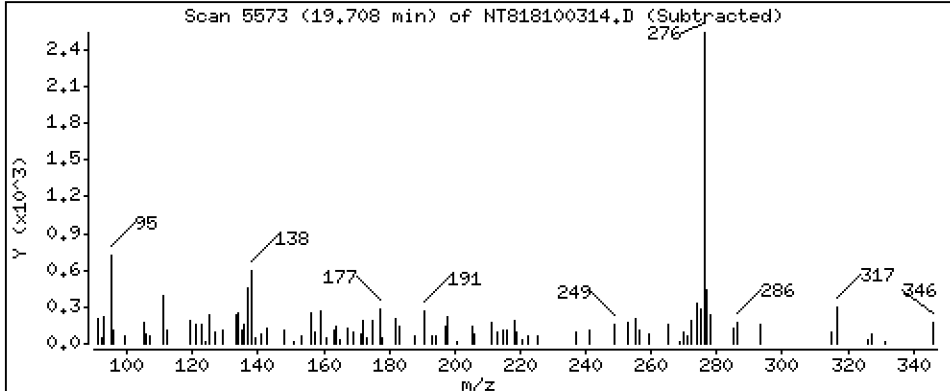
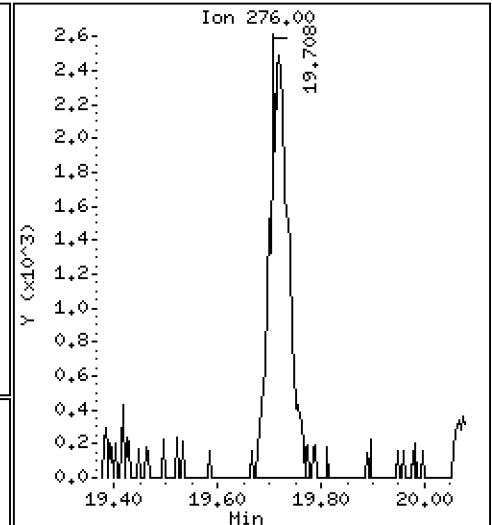
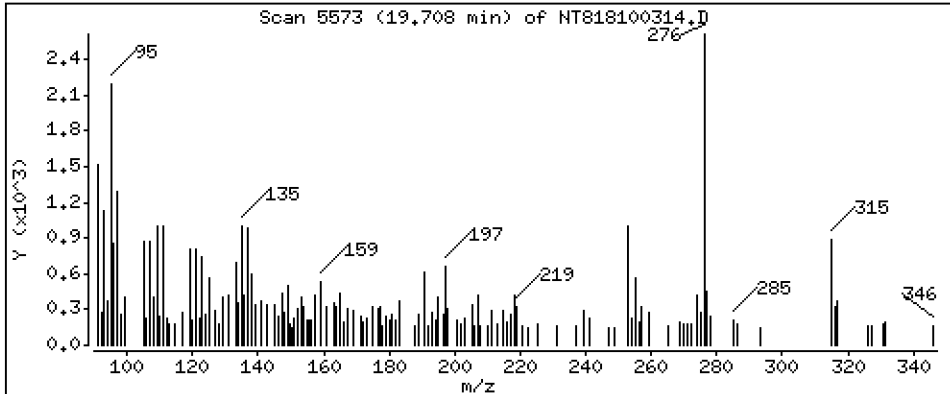
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 0,1252 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100314.D
 Lab Smp Id: 18I0285-06
 Inj Date : 03-OCT-2018 16:56
 Operator : JZ Inst ID: nt8.i
 Smp Info : 18I0285-06
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
* 1 Naphthalene-d8	136		4.309	4.319	(1.000)	169458	2.00000	
2 Naphthalene	128		4.334	4.347	(1.006)	106981	1.15834	1.158
\$ 3 2-Methylnaphthalene-d10	152		5.033	5.040	(1.168)	100073	1.66986	1.670
4 2-Methylnaphthalene	141		5.081	5.087	(1.179)	8038	0.15521	0.1552
5 1-methylnaphthalene	141		5.270	5.280	(1.223)	5198	0.09749	0.09749
9 Acenaphthylene	152		6.450	6.453	(0.983)	20670	0.21923	0.2192
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	88890	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.007)	9556	0.15036	0.1504
12 Dibenzofuran	168		6.756	6.763	(1.029)	14180	0.16106	0.1611
14 Fluorene	166		7.228	7.231	(1.101)	8838	0.12120	0.1212
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	171591	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	59525	0.64323	0.6432
17 Anthracene	178		8.635	8.638	(1.008)	19418	0.21432	0.2143
22 Fluoranthene	202		10.206	10.209	(1.192)	76228	0.70849	0.7085
\$ 21 Fluoranthene-d10	212		10.175	10.178	(1.188)	231096	2.13255	2.133
23 Pyrene	202		10.652	10.655	(0.819)	71722	0.63863	0.6386
24 Benzo(a)anthracene	228		12.894	12.897	(0.991)	11471	0.10563	0.1056
* 25 Chrysene-d12	240		13.011	13.014	(1.000)	188745	2.00000	
27 Chrysene	228		13.077	13.080	(1.005)	21568	0.21014	0.2101
28 Benzo(b)fluoranthene	252		15.452	15.458	(0.927)	10031	0.09016	0.09016
29 Benzo(k)fluoranthene	252		15.512	15.515	(0.931)	5610	0.05093	0.05093
30 Benzo(j)fluoranthene	252		15.575	15.591	(0.934)	5103	0.04887	0.04887
31 Total Benzofluoranthenes	252		15.452	15.591	(0.927)	20640	0.19113	0.1911 (M)
32 Benzo(a)pyrene	252		16.445	16.451	(0.987)	8425	0.08394	0.08394
* 33 Perylene-d12	264		16.669	16.672	(1.000)	178417	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		Compound Not Detected.					
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.848	18.861	(1.131)	215180	2.68846	2.688
38 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
39 Benzo(g,h,i)perylene	276		19.708	19.727	(1.182)	6628	0.12518	0.1252
35 Perylene	252		Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100314.D Calibration Time: 11:20
 Lab Smp Id: 18I0285-06
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	169458	28.50
10 Acenaphthene-d10	72272	36136	144544	88890	22.99
15 Phenanthrene-d10	156058	78029	312116	171591	9.95
25 Chrysene-d12	174389	87195	348778	188745	8.23
33 Perylene-d12	150701	75351	301402	178417	18.39

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.22
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	-0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.04
25 Chrysene-d12	13.01	12.51	13.51	13.01	-0.02
33 Perylene-d12	16.67	16.17	17.17	16.67	-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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100314.D

Lab ID: 18I0285-06
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 16:56

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.927	0.935	-0.0082	Total Benzofluoranthenes

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

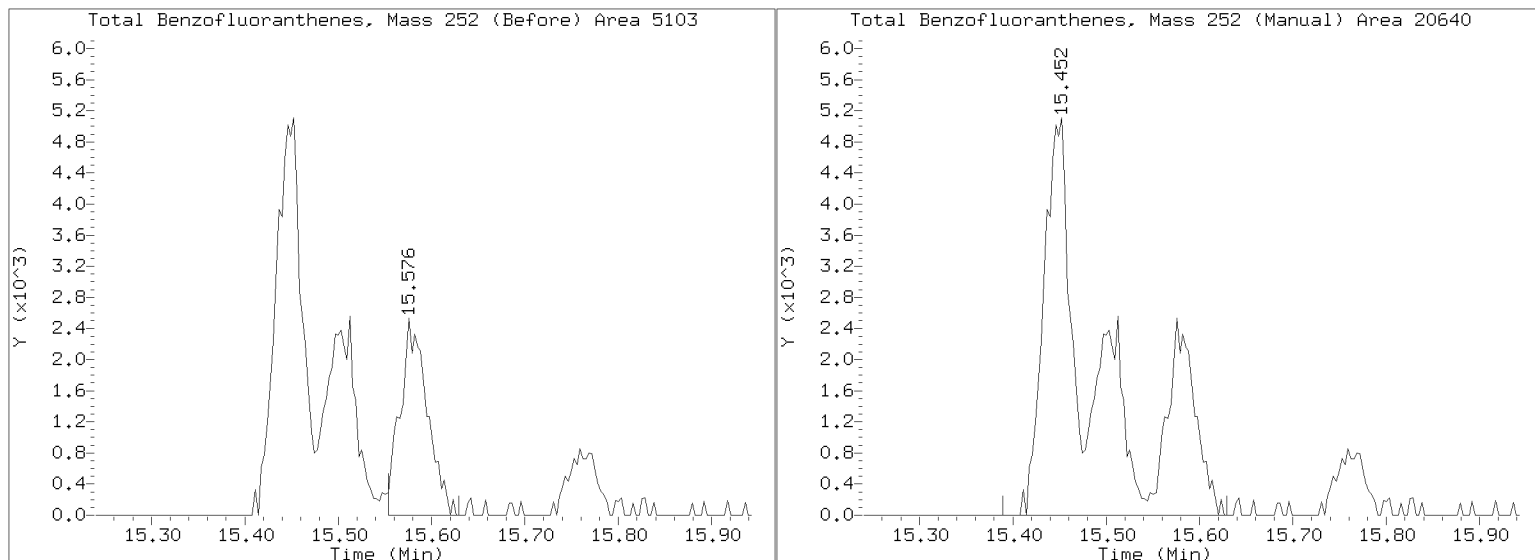
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100314.D

Injection Date: 03-OCT-2018 16:56

Lab ID:18I0285-06 Client ID:

Report Date: 10/09/2018 16:39





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270D-SIM
Polynuclear Aromatic Hydrocarbons

Laboratory: Analytical Resources, Inc.
 Client: Anchor OEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 1810285-37 SDG: 1810285
 Sampled: 09/18/18 16:40 Prepared: 09/26/18 15:45 File ID: NT818100315.D
 % Solids: 81.95 Preparation: EPA 3546 (Microwave) Analyzed: 10/03/18 17:22
 Batch: BGI0708 Sequence: SGJ0048 Initial/Final: 12.39 g Wet / 0.5 mL
 Instrument: NT8 Column: RXI-17Sil ms Calibration: BH00016
 Cleanups: Silica Gel, Sulfur

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	112		1.26	4.92
91-57-6	2-Methylnaphthalene	1	9.41		1.09	4.92
90-12-0	1-Methylnaphthalene	1	5.64		0.39	4.92
208-96-8	Acenaphthylene	1	20.2		1.07	4.92
83-32-9	Acenaphthene	1	11.0		0.56	4.92
86-73-7	Fluorene	1	8.53		0.62	4.92
85-01-8	Phenanthrene	1	46.0		0.71	4.92
120-12-7	Anthracene	1	15.6		0.86	4.92
206-44-0	Fluoranthene	1	43.4		0.46	4.92
129-00-0	Pyrene	1	46.1		0.62	4.92
56-55-3	Benzo(a)anthracene	1	11.1		0.81	4.92
218-01-9	Chrysene	1	19.1		1.04	4.92
205-99-2	Benzo(b)fluoranthene	1	26.0		1.35	4.92
207-08-9	Benzo(k)fluoranthene	1	14.8		0.75	4.92
205-82-3	Benzo(j)fluoranthene	1	10.1		0.67	4.92
50-32-8	Benzo(a)pyrene	1	24.6		0.60	4.92
193-39-5	Indeno(1,2,3-cd)pyrene	1	10.8		1.03	4.92
53-70-3	Dibenzo(a,h)anthracene	1	3.41	J	0.88	4.92
191-24-2	Benzo(g,h,i)perylene	1	15.1		1.05	4.92
	Benzo(a)fluoranthenes, Total	1	50.7		2.96	9.85

SURROGATES	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	147.73	79.9	54.1	32 - 120	
Dibenzo[a,h]anthracene-d14	147.73	130	87.9	21 - 133	
Fluoranthene-d10	147.73	102	69.1	36 - 134	

Data File: \\target\share\chem3\nt8.1\20181003.B\NT818100315.D

Date: 03-OCT-2018 17:22

Client ID:

Sample Info: 1810285-37

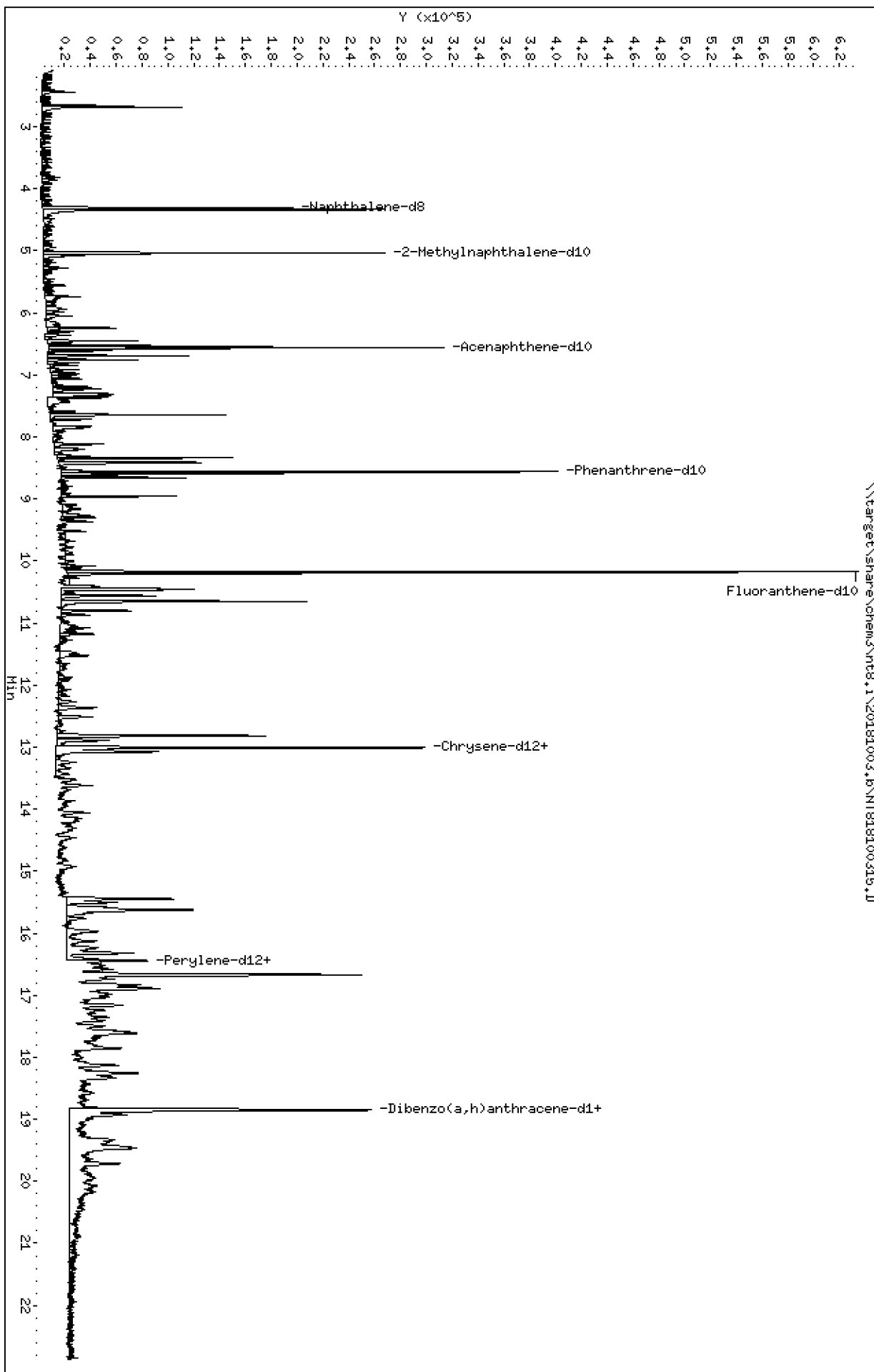
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

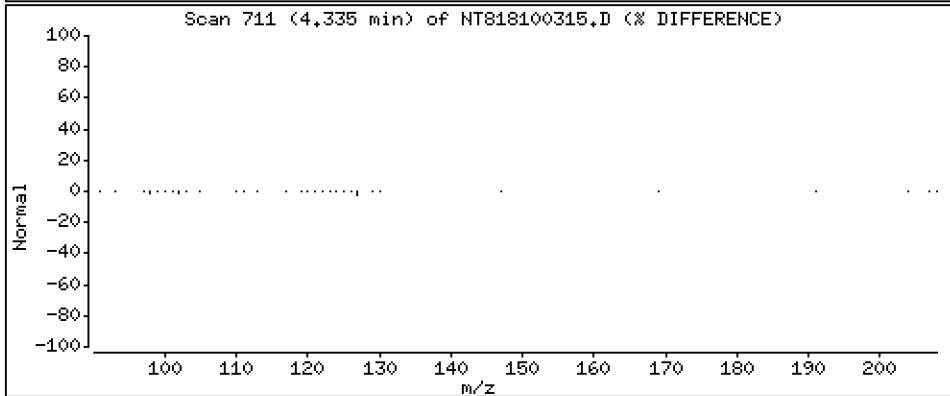
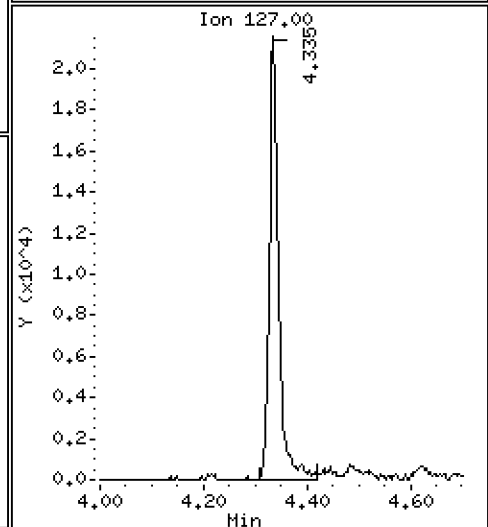
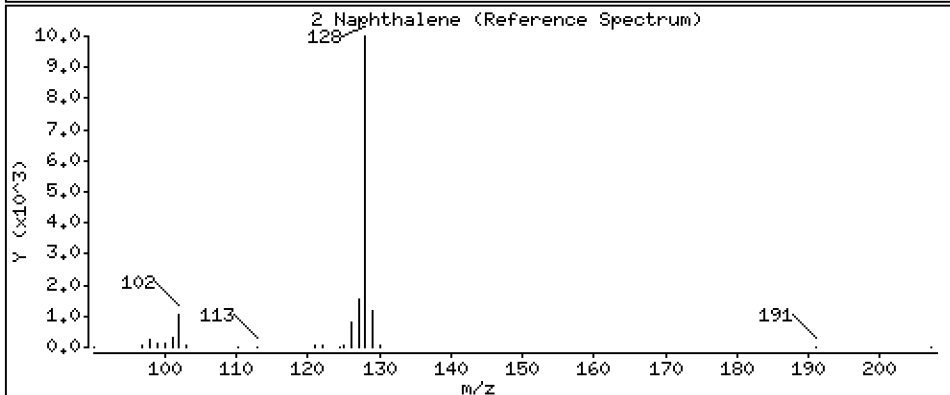
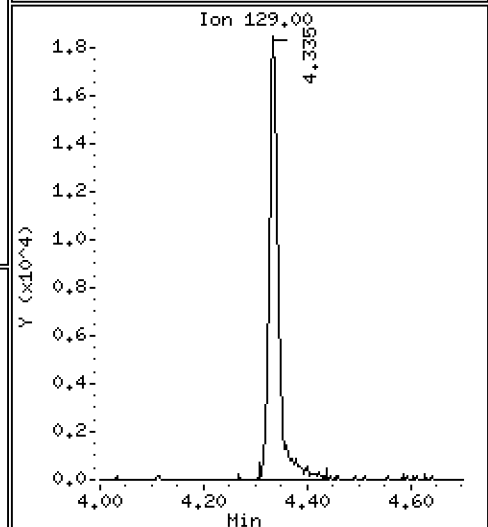
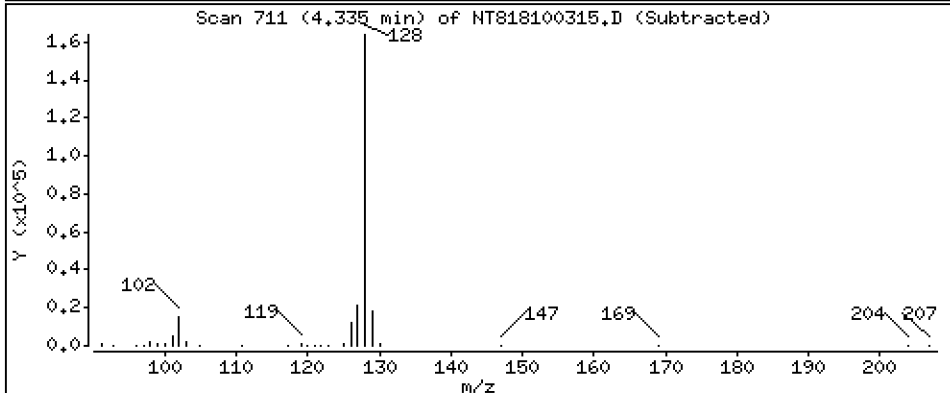
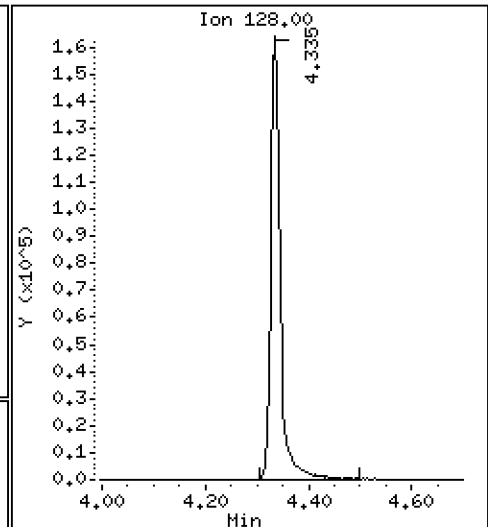
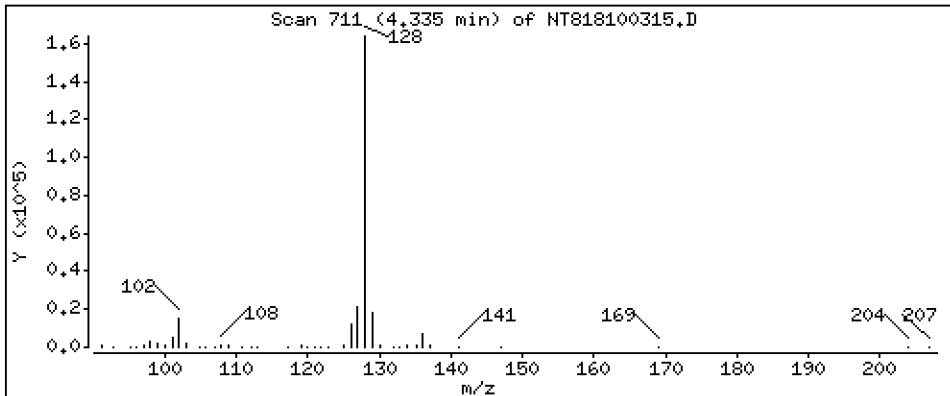
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 2,272 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

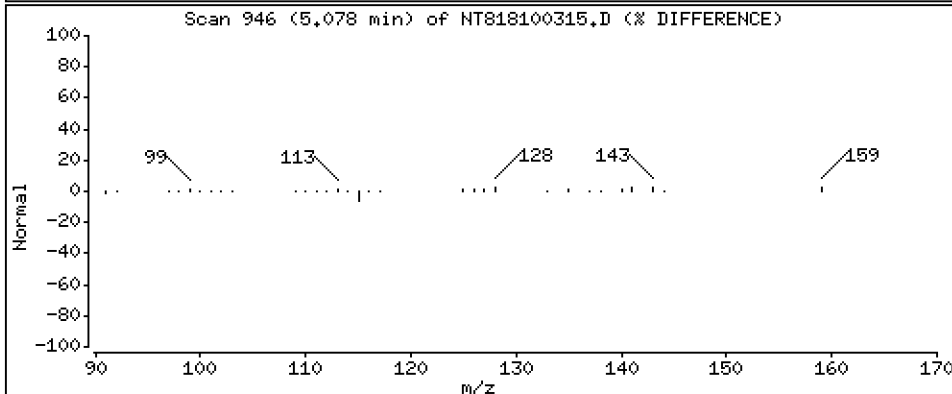
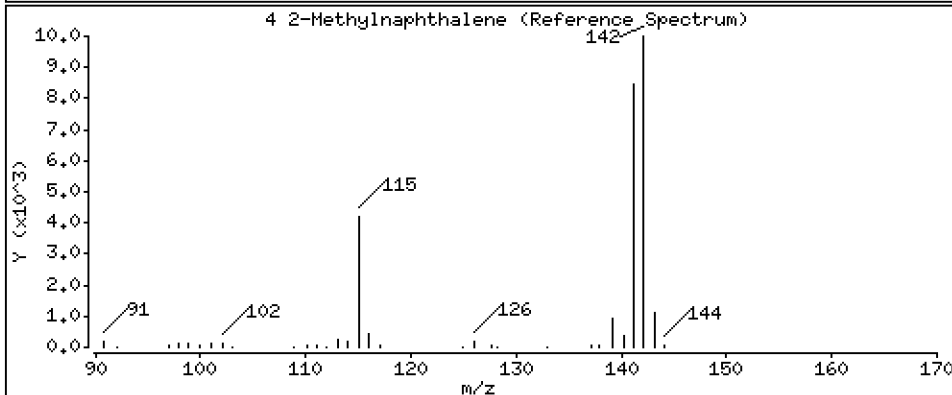
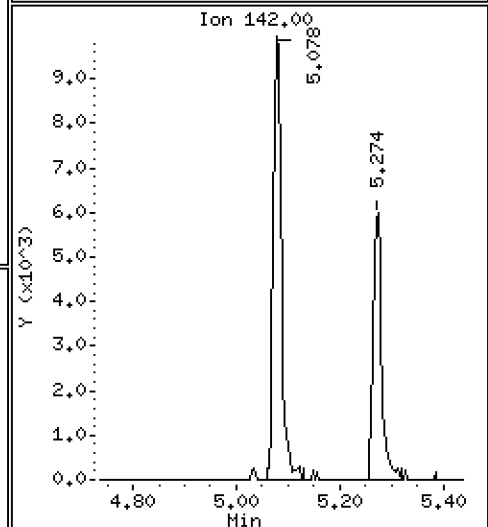
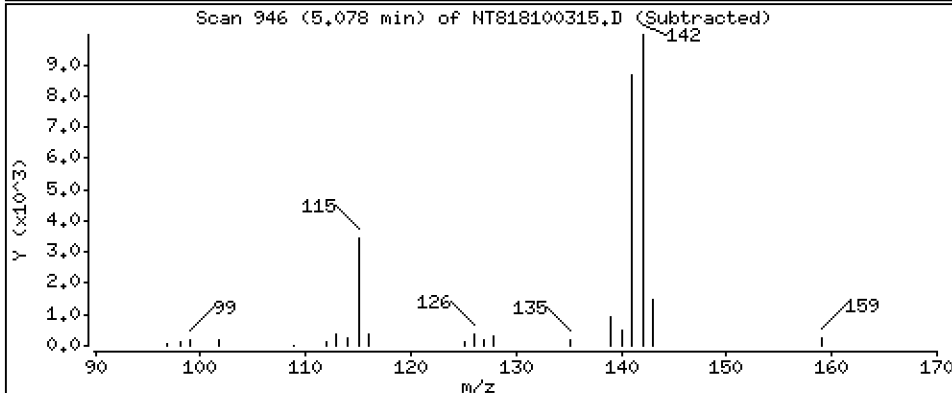
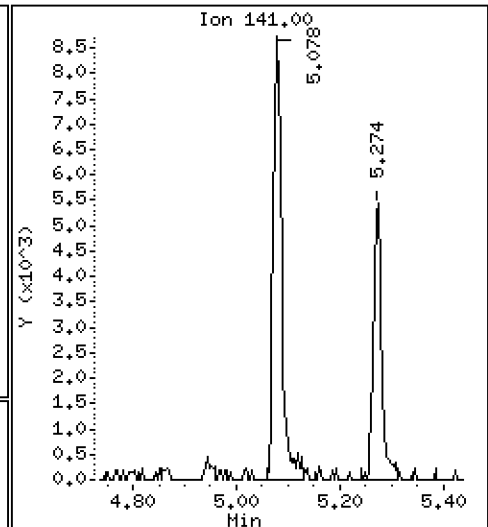
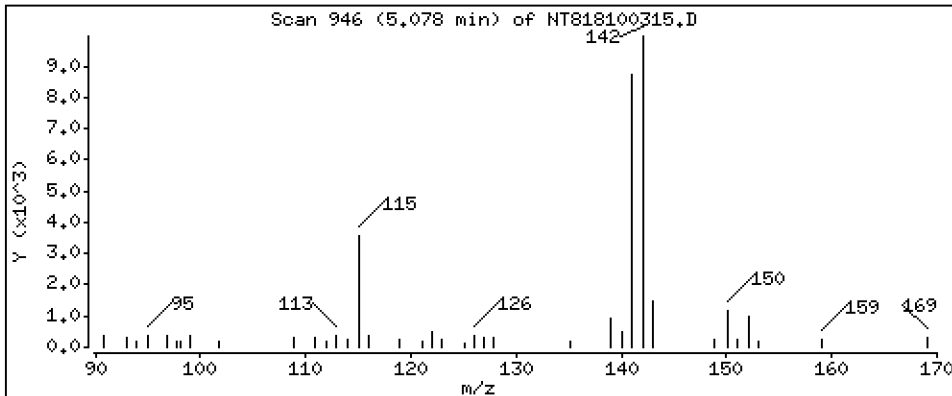
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4-Methylnaphthalene

Concentration: 0.1911 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

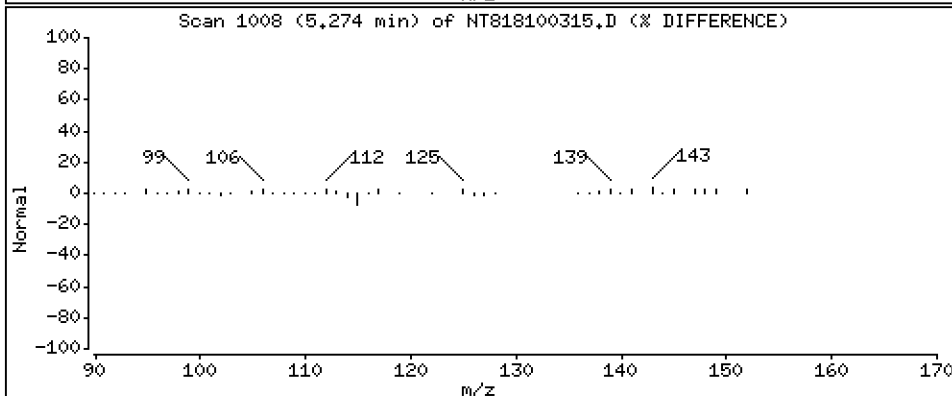
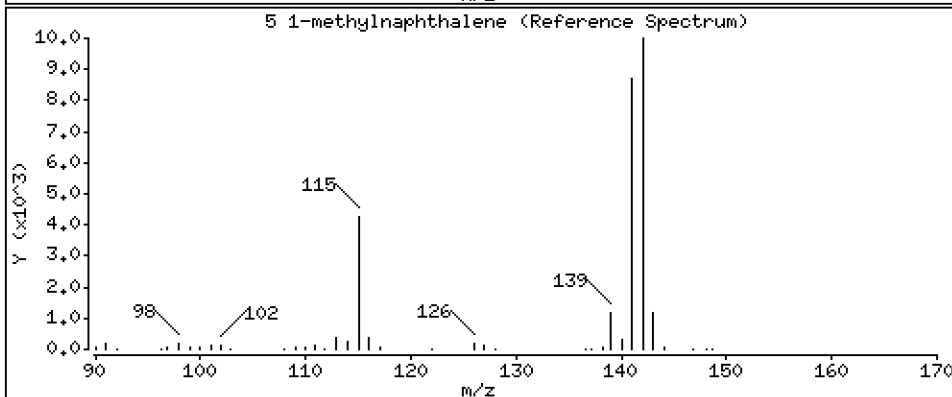
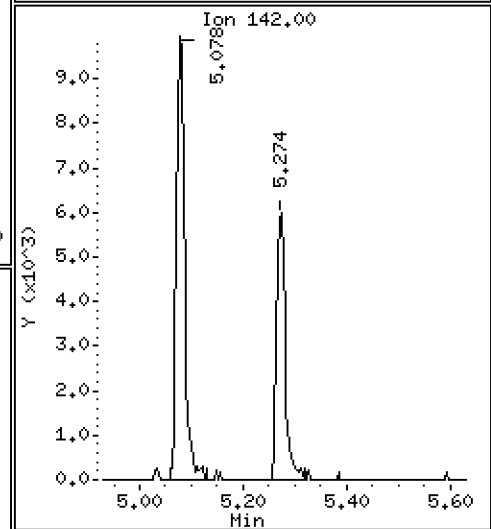
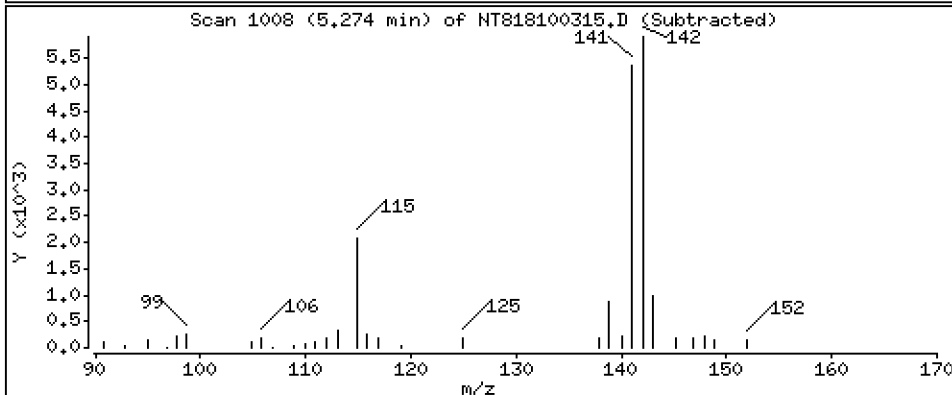
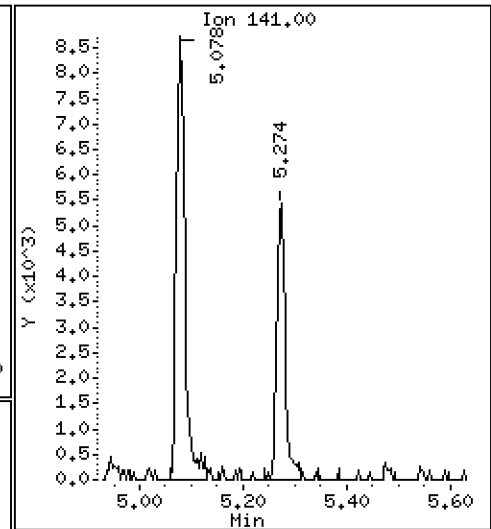
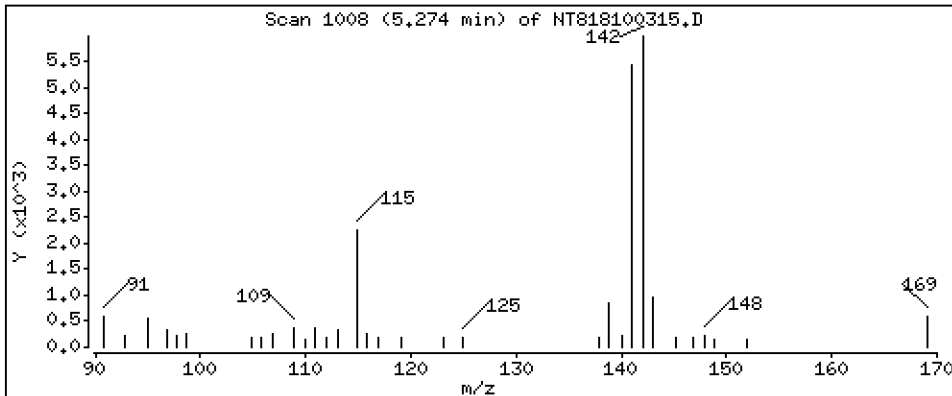
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

5 1-methylnaphthalene

Concentration: 0,1146 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

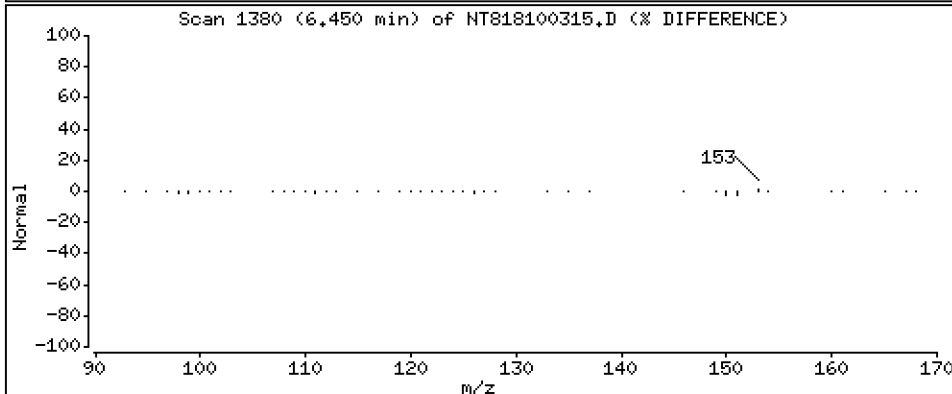
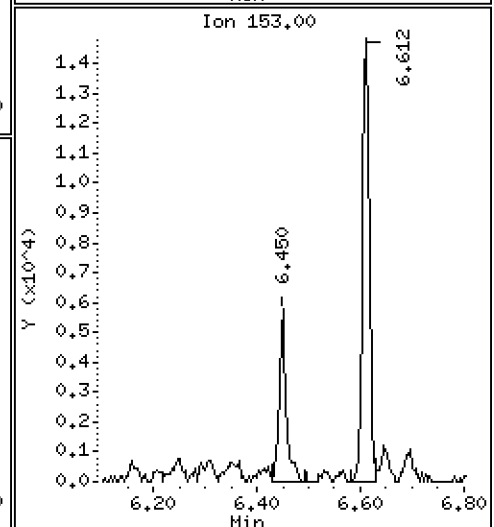
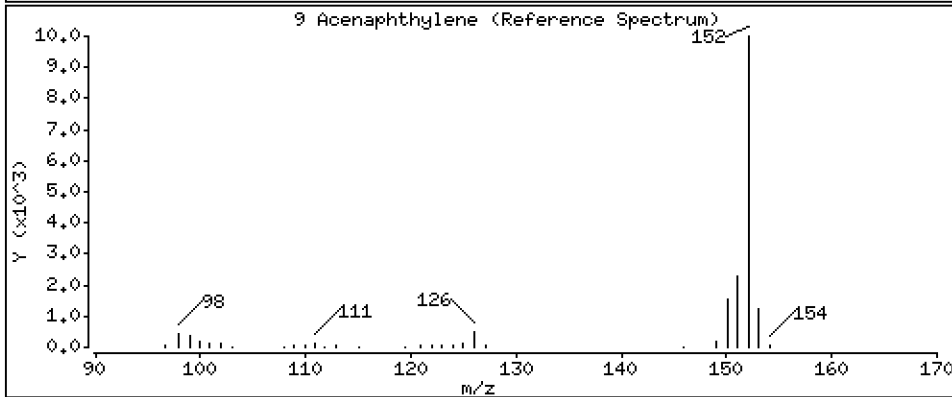
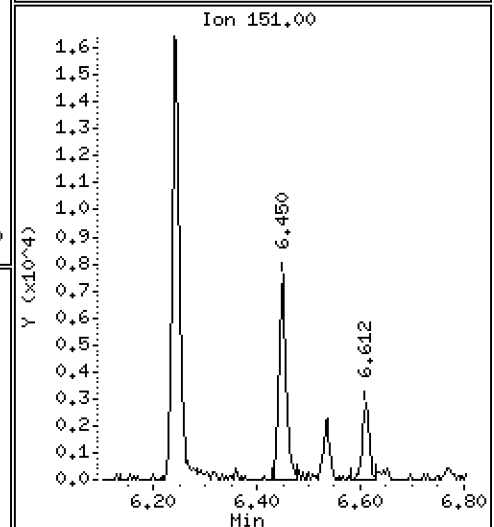
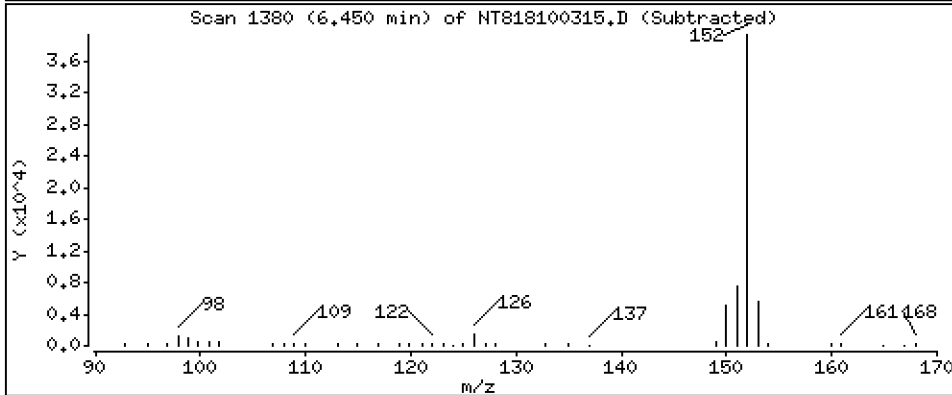
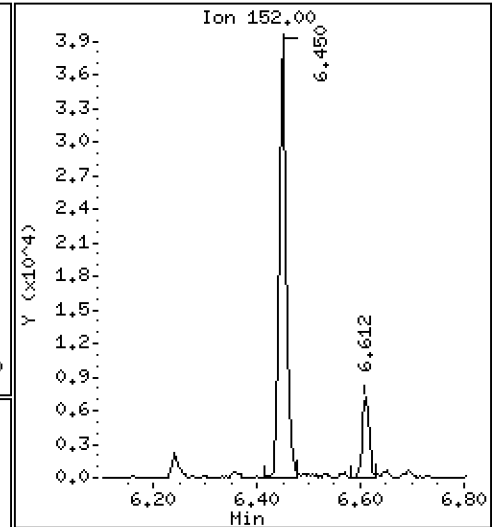
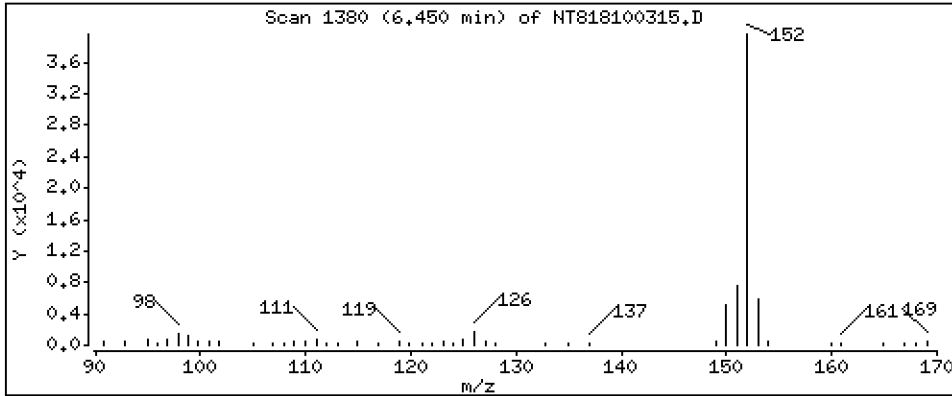
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

9 Acenaphthylene

Concentration: 0.4104 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

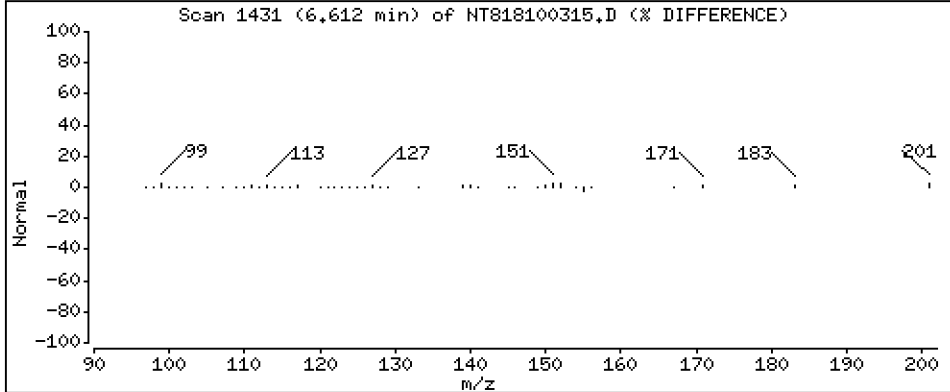
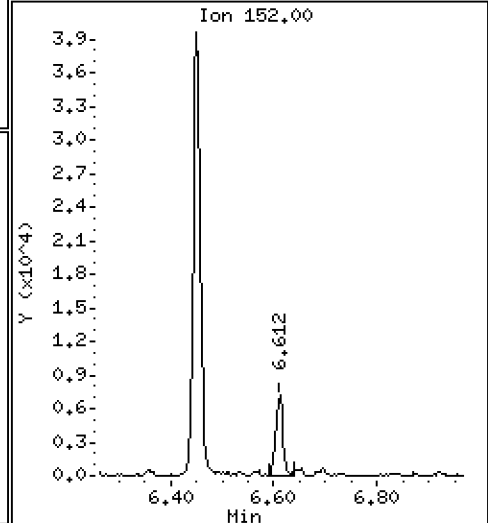
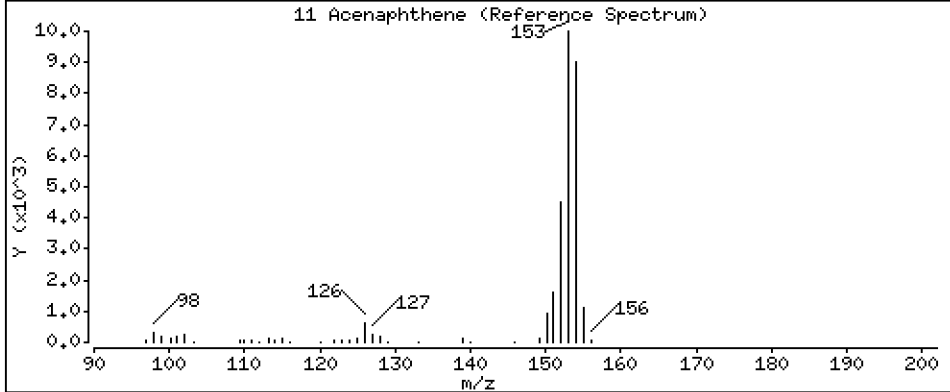
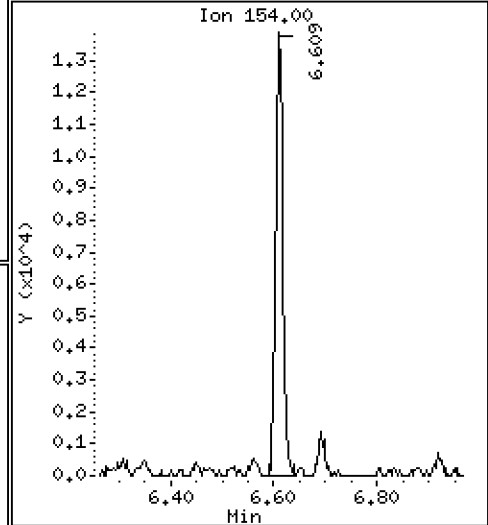
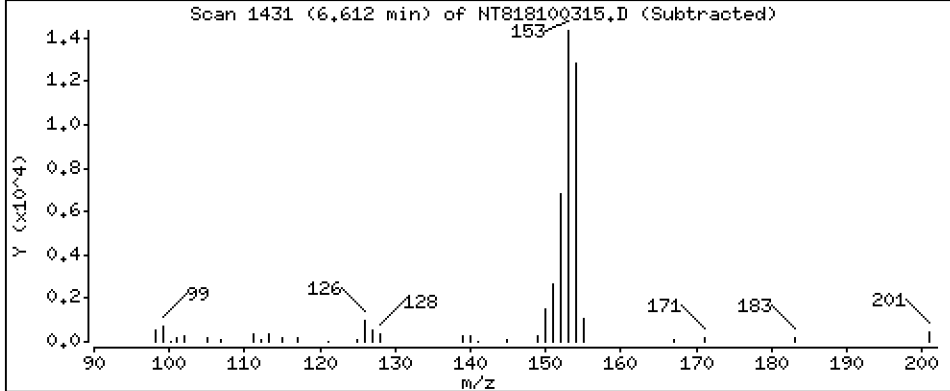
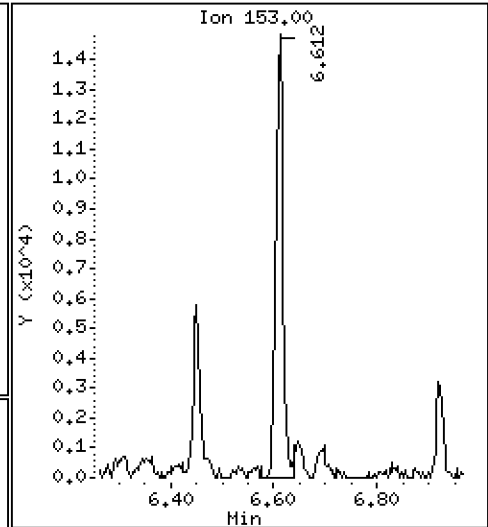
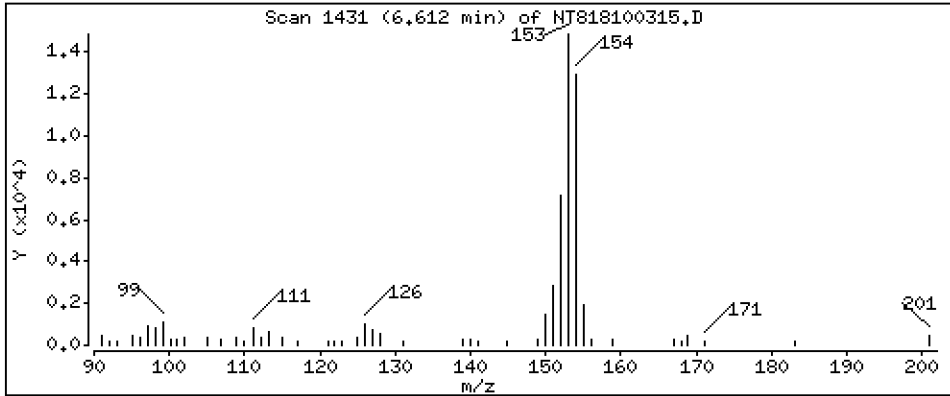
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,2230 ug/mL

11 Acenaphthene



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

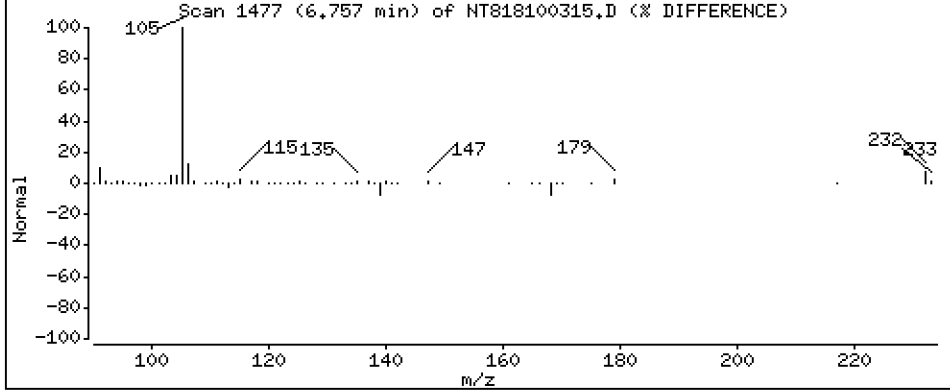
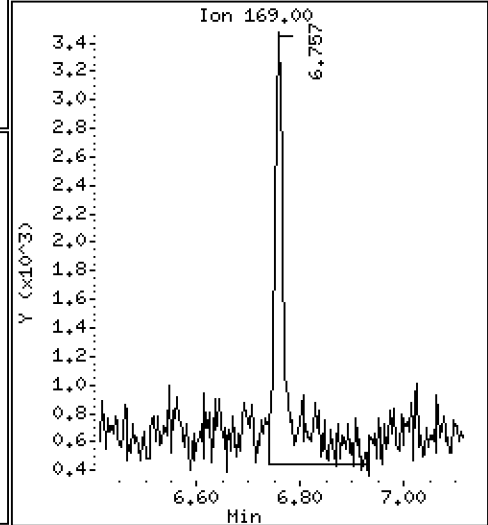
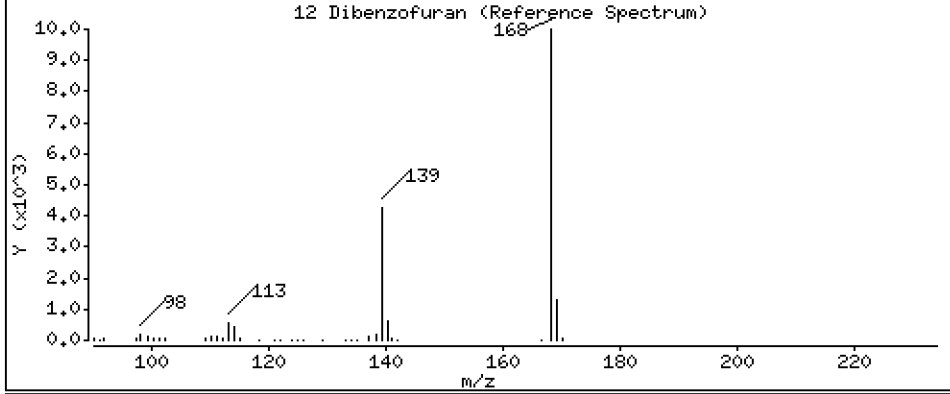
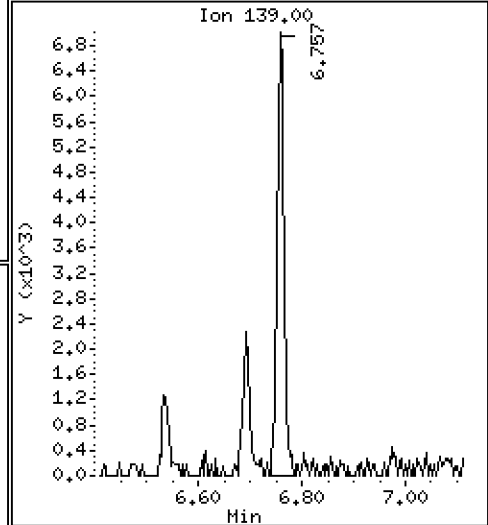
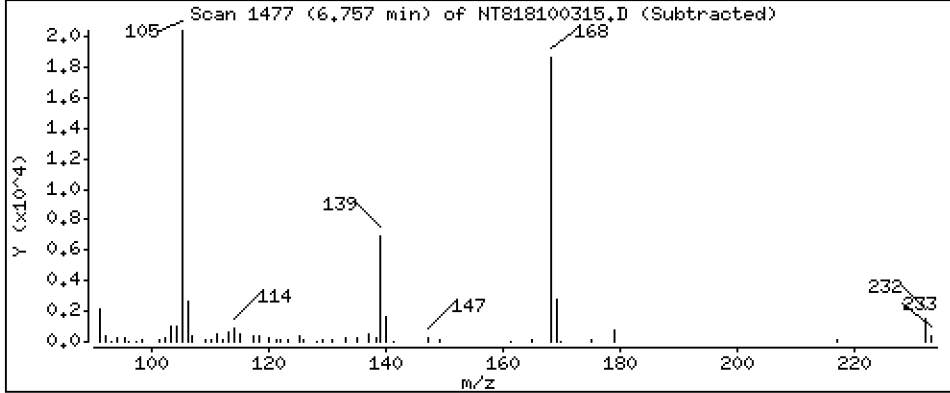
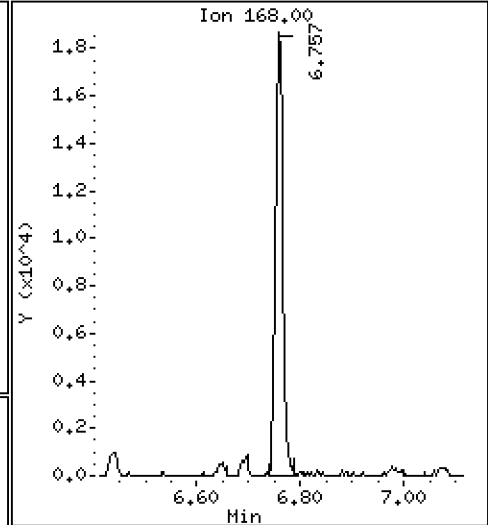
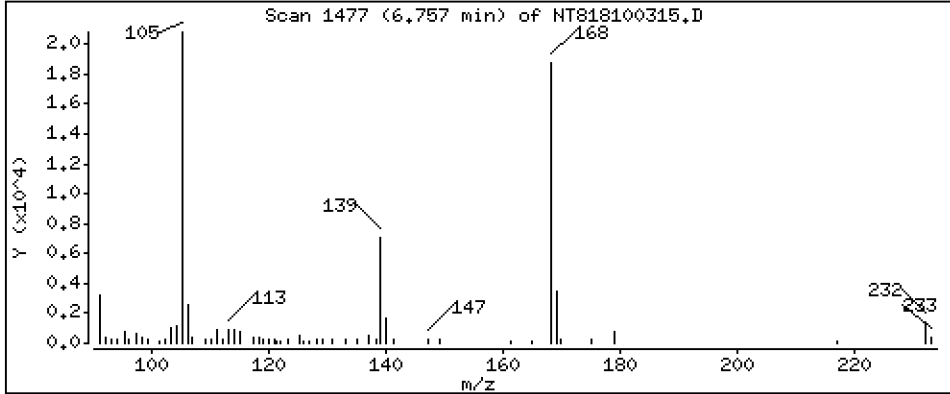
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,2078 ug/mL

12 Dibenzofuran



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

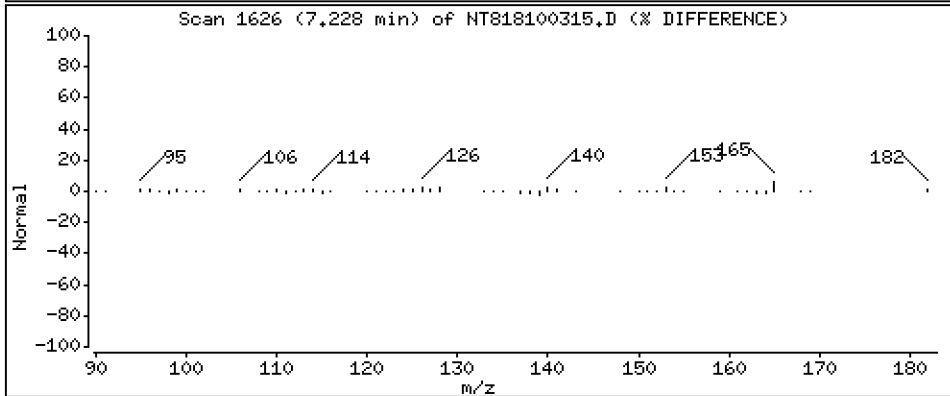
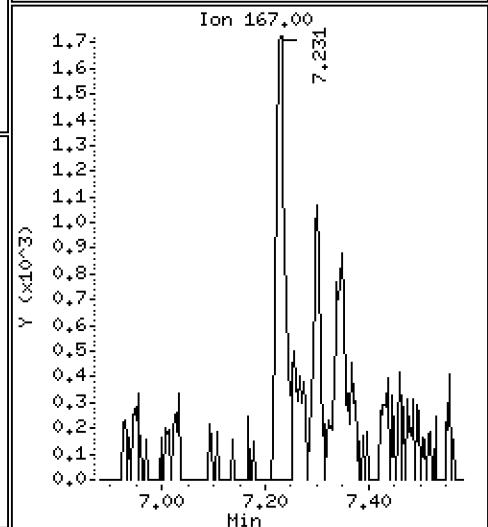
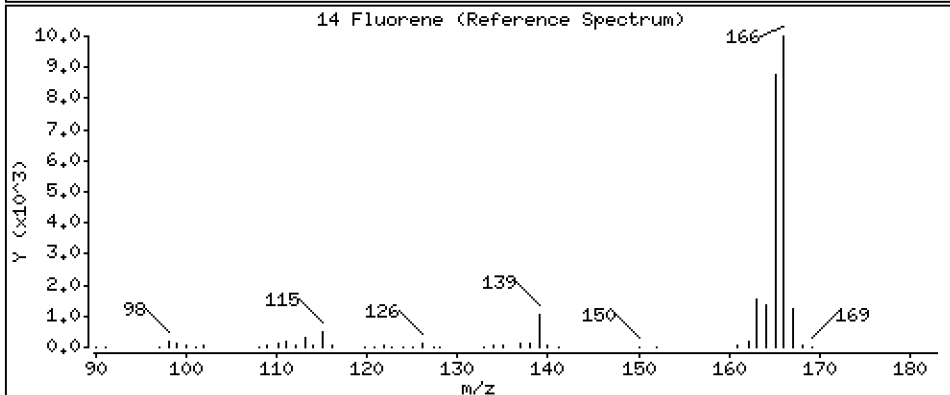
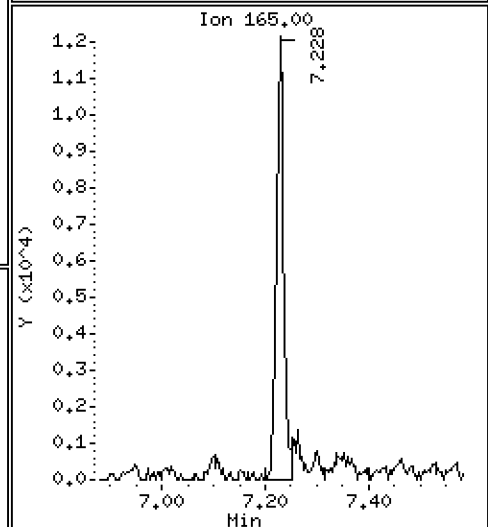
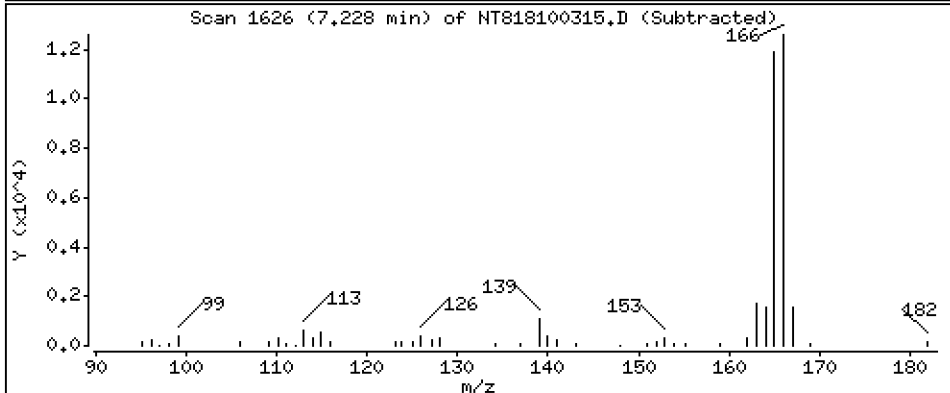
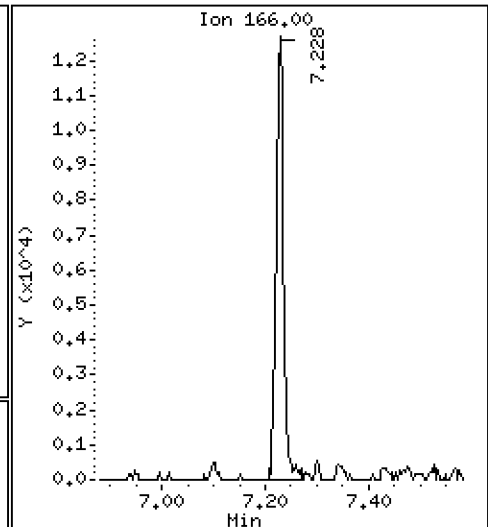
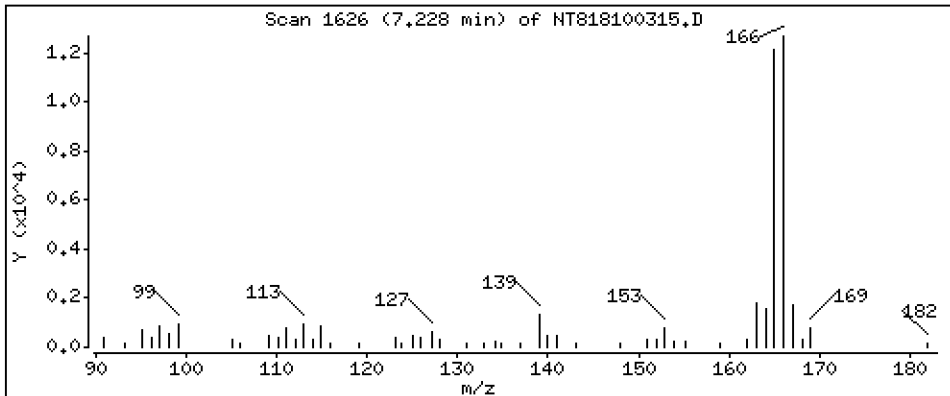
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

14 Fluorene

Concentration: 0.1732 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

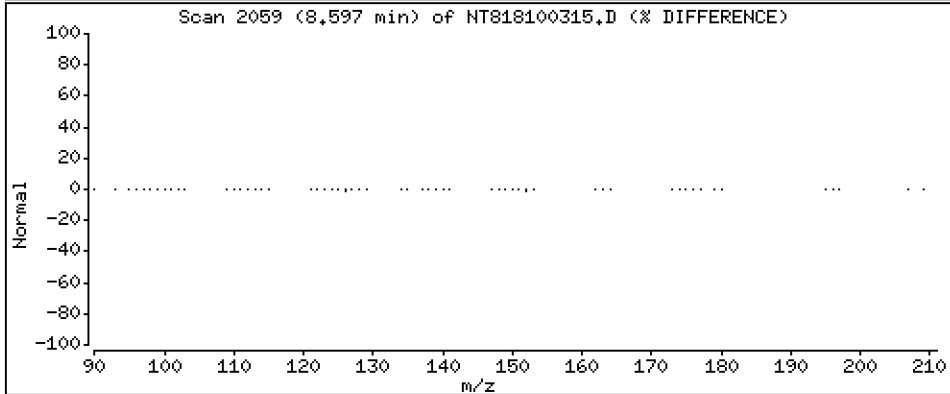
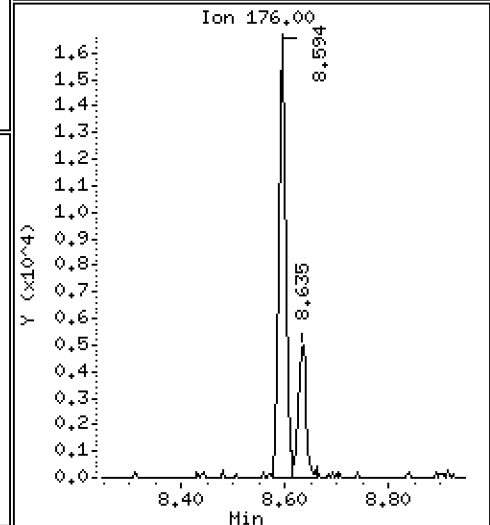
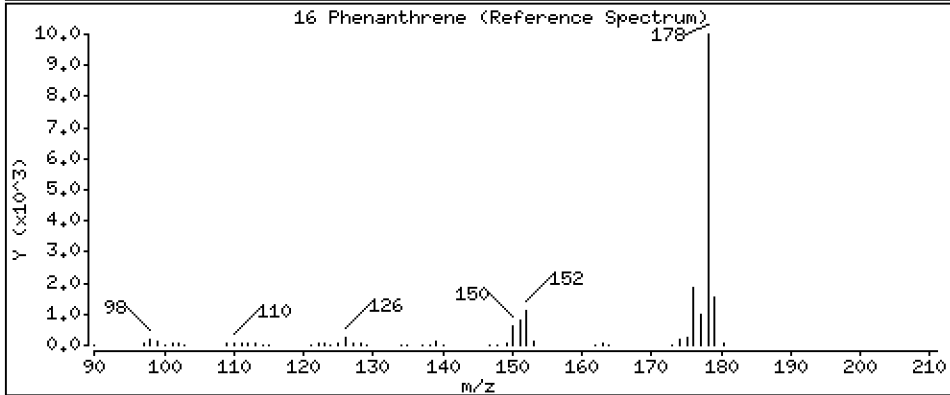
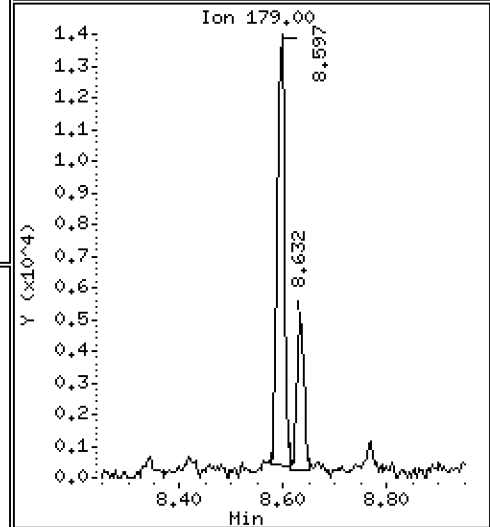
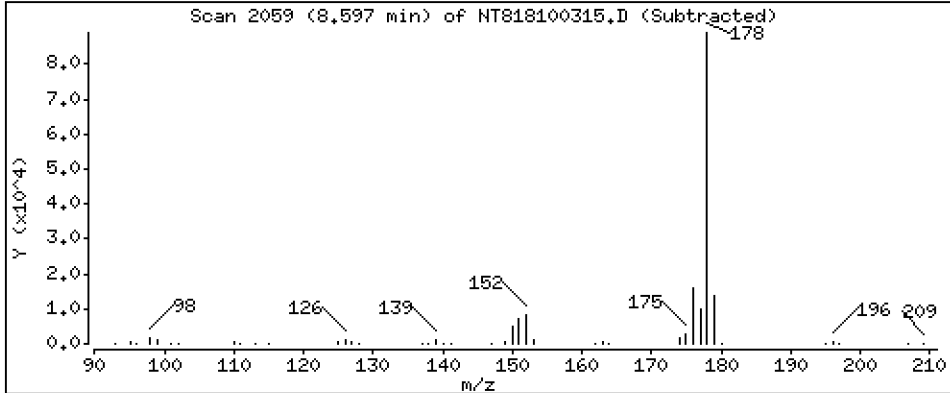
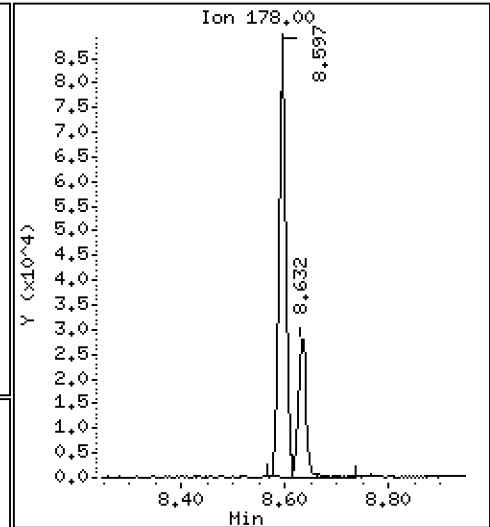
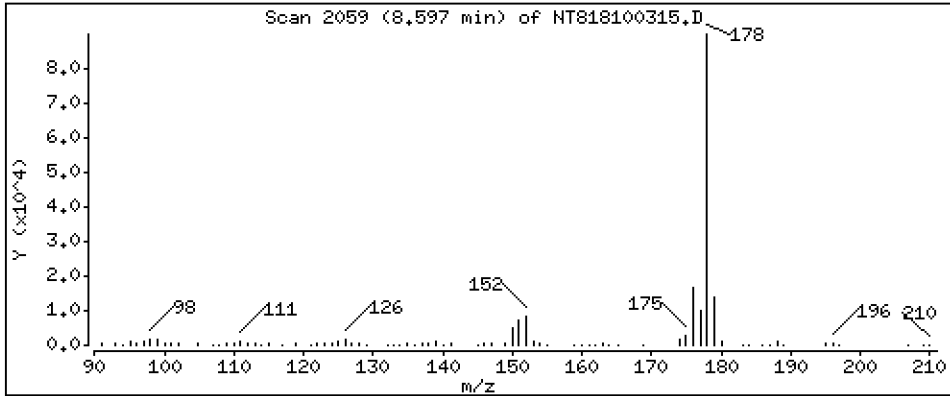
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

Concentration: 0.9349 ug/mL

16 Phenanthrene



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

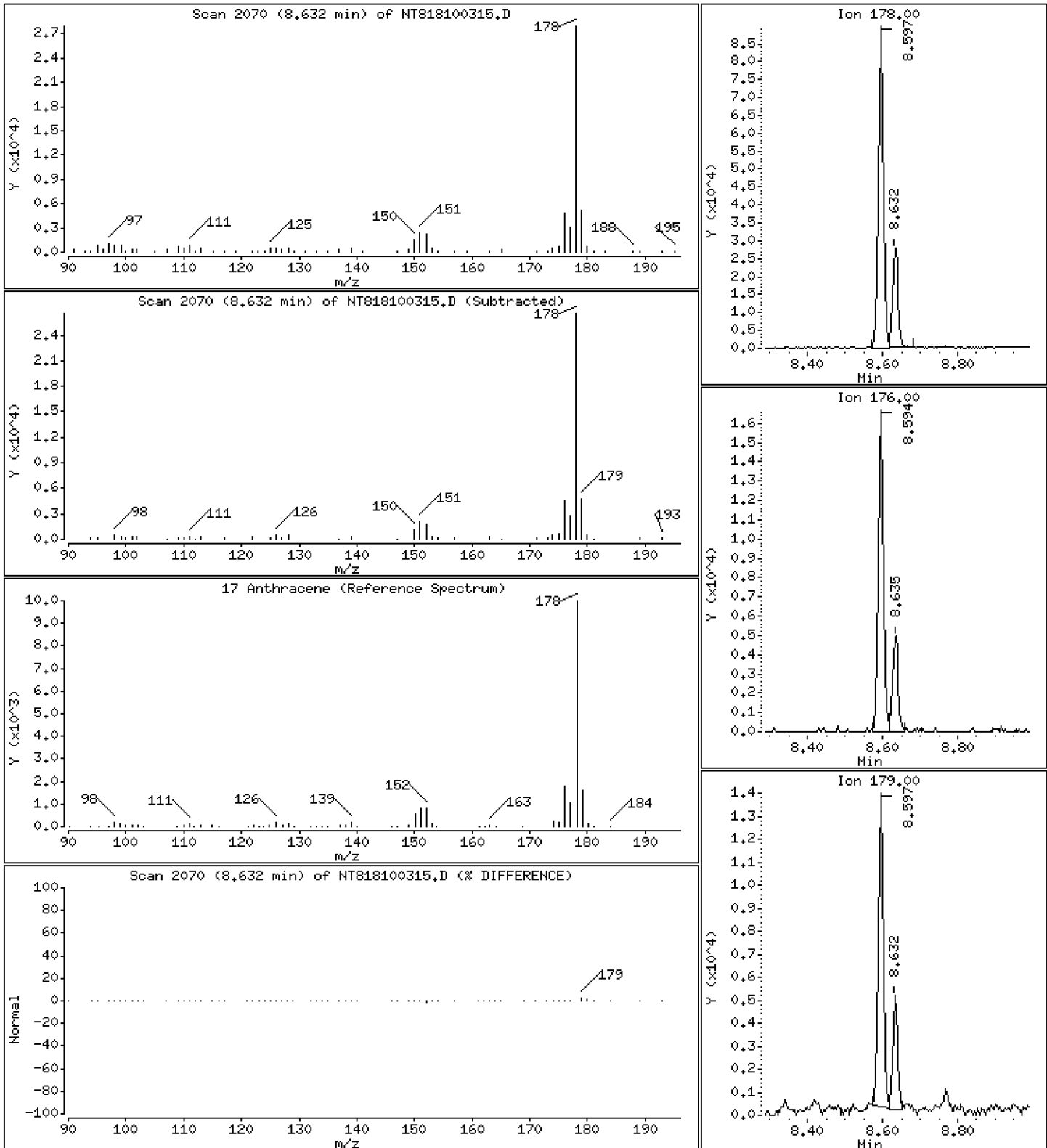
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

17 Anthracene

Concentration: 0.3176 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

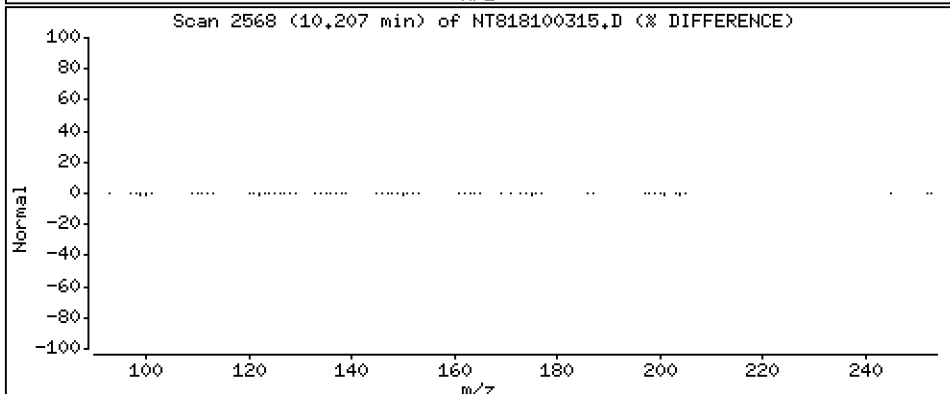
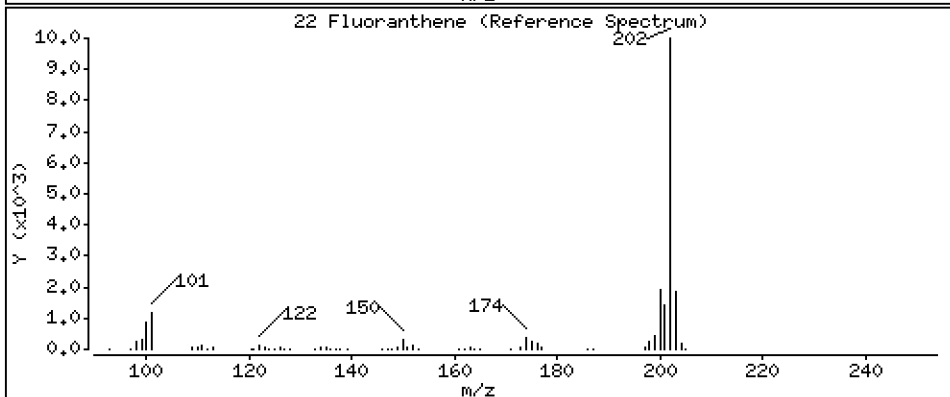
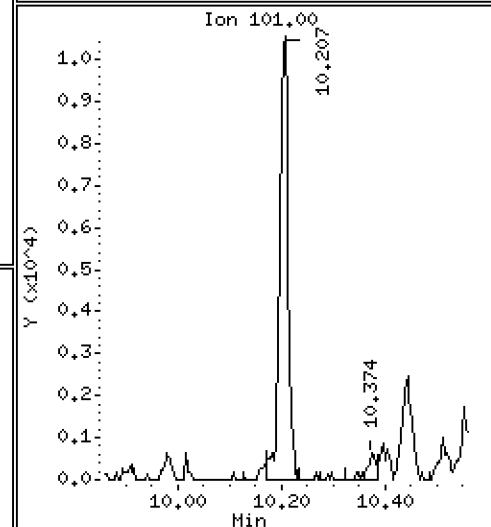
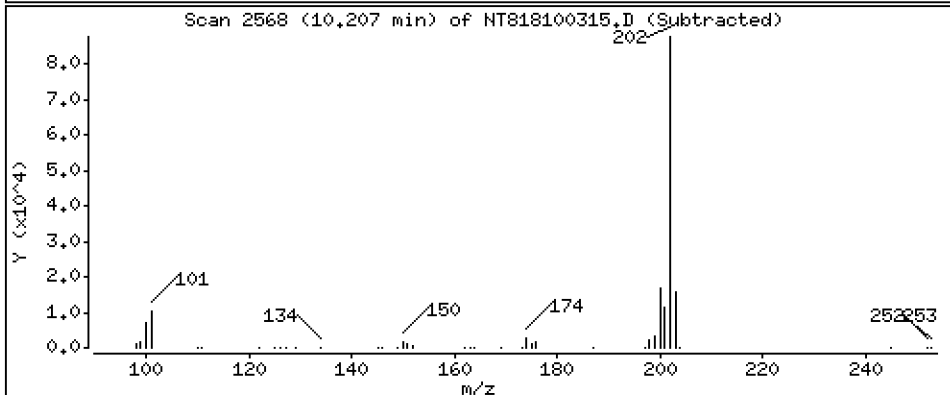
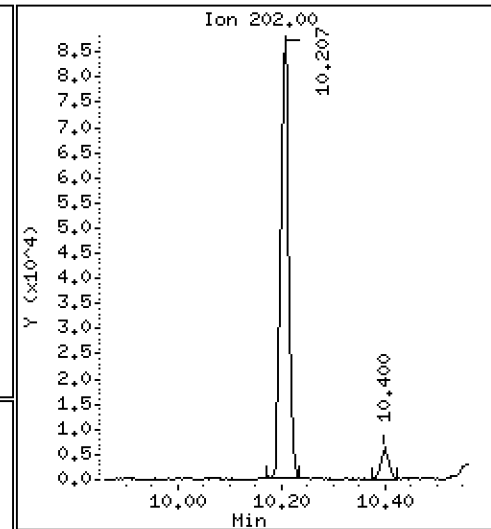
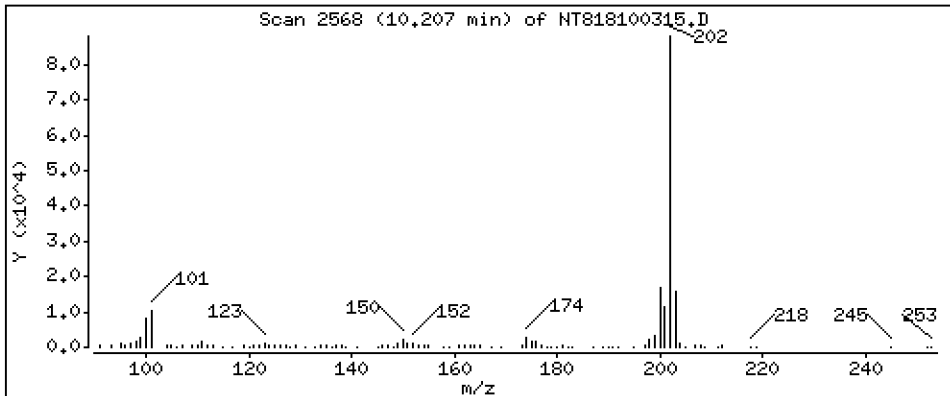
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 0,8811 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

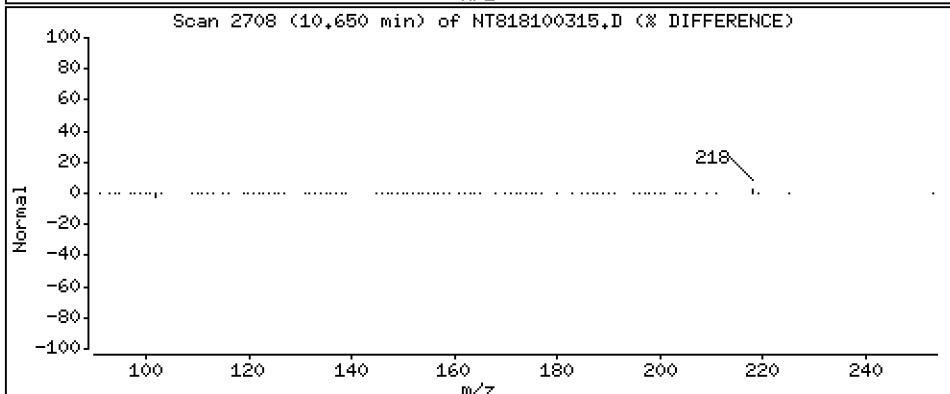
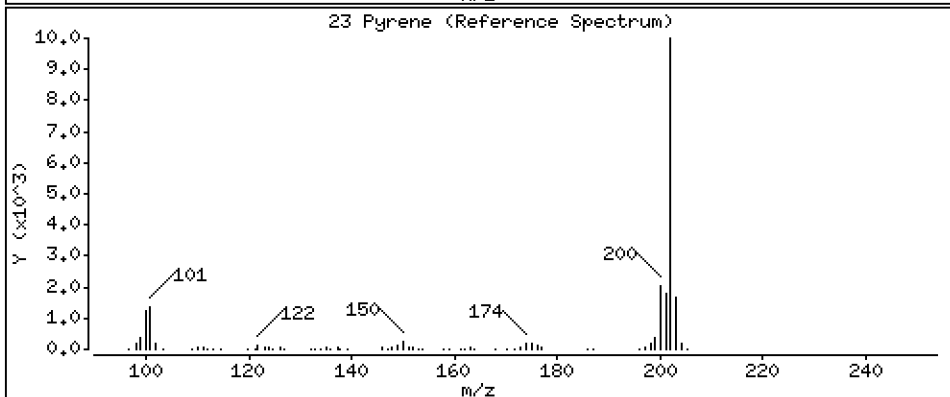
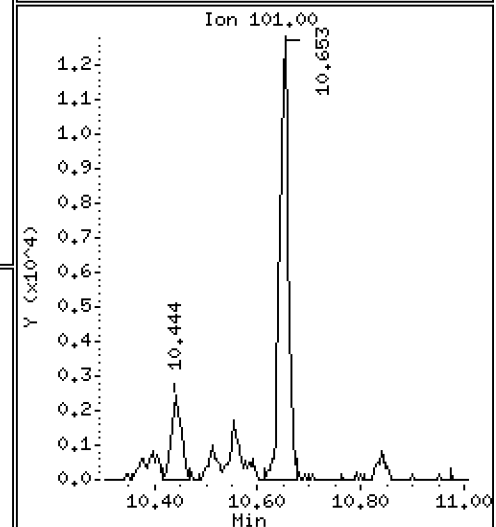
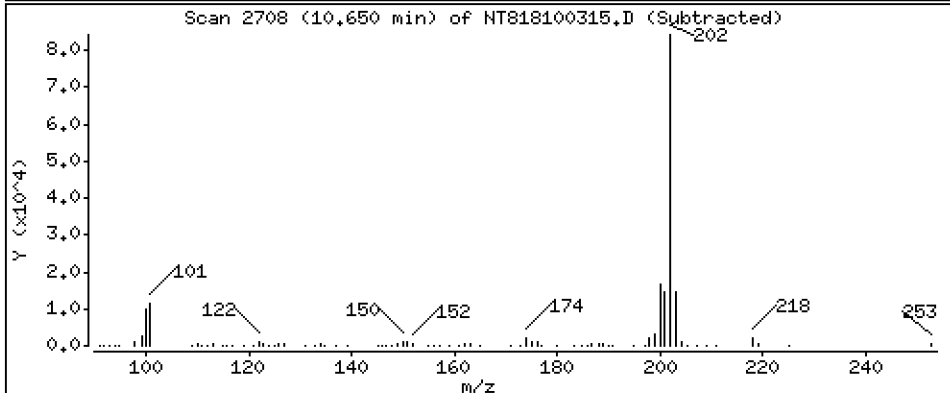
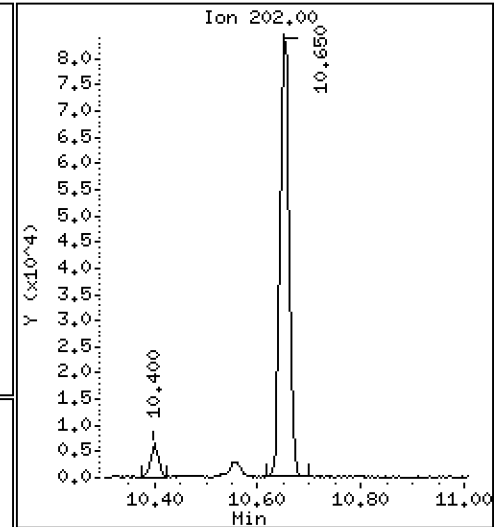
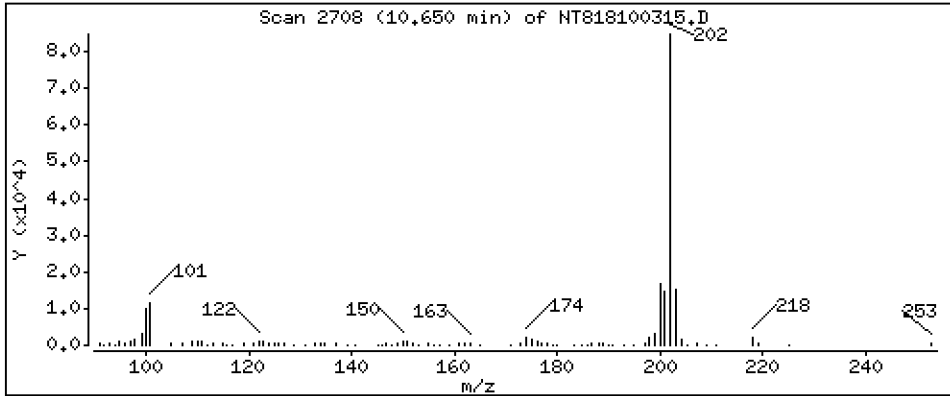
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,9356 ug/mL

23 Pyrene



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

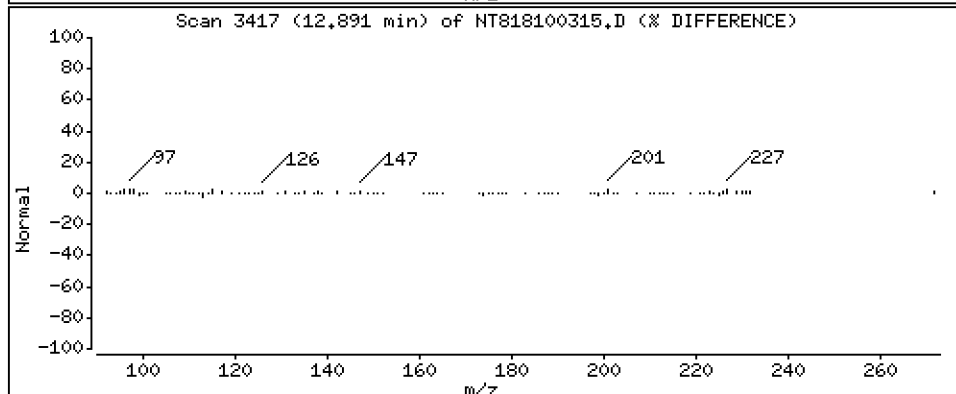
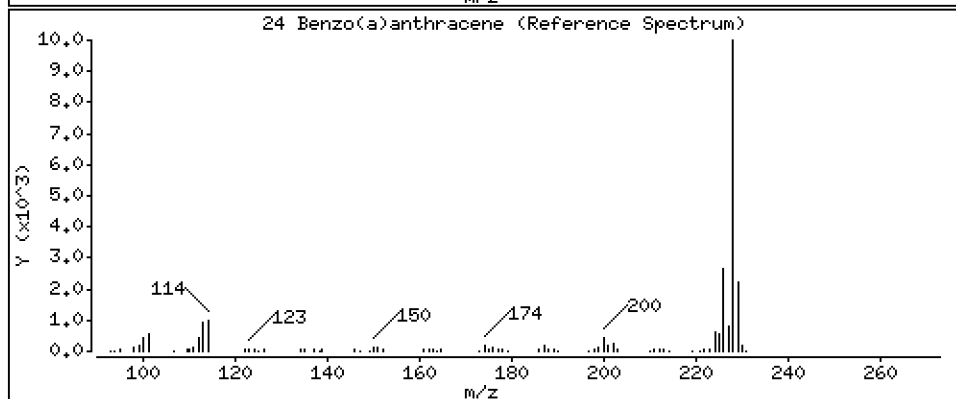
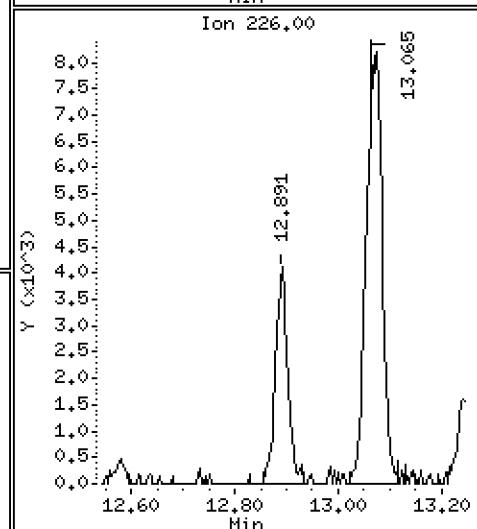
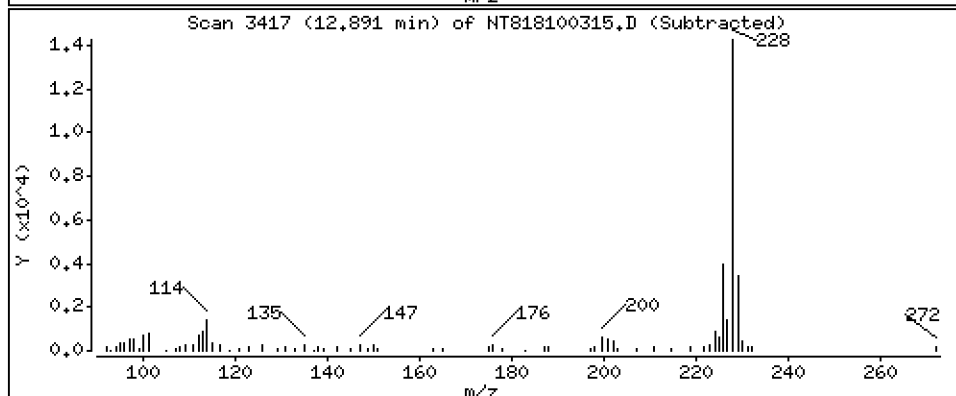
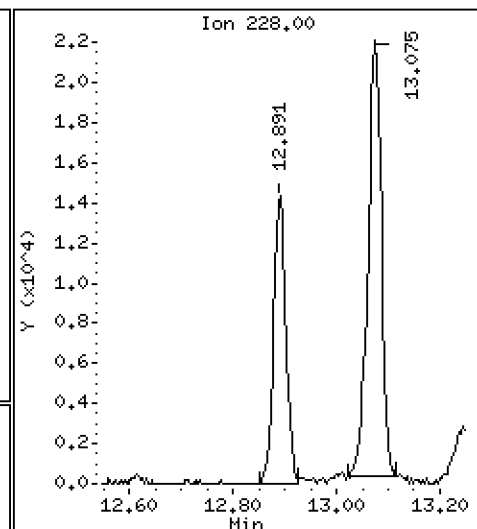
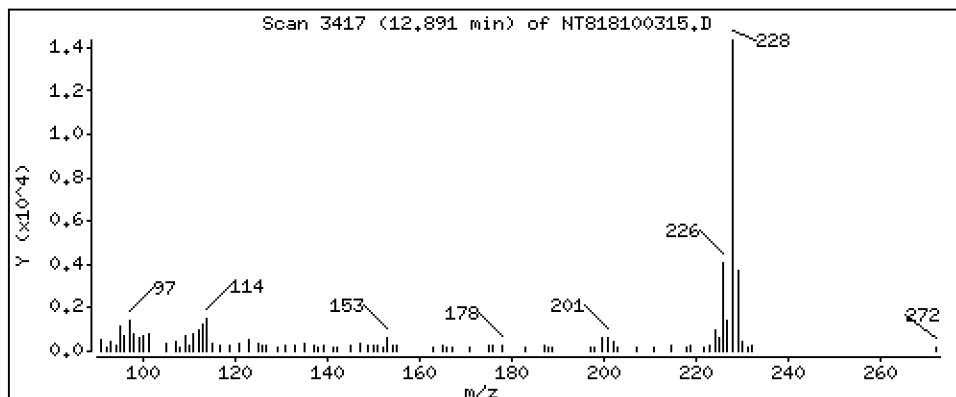
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 0,2248 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

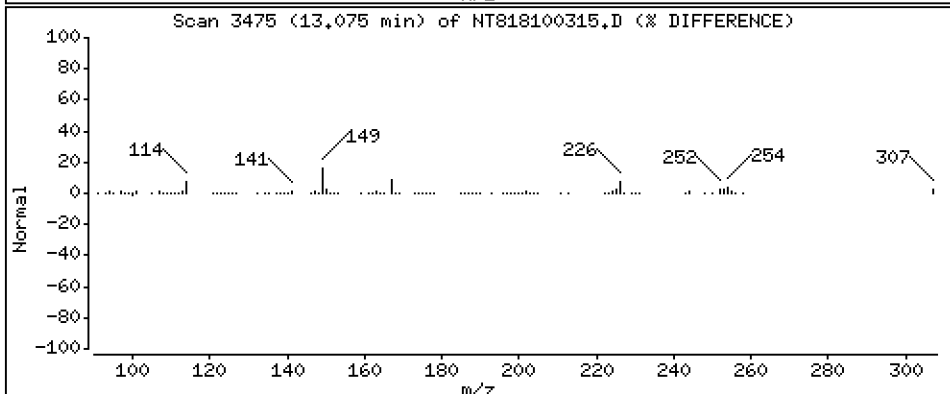
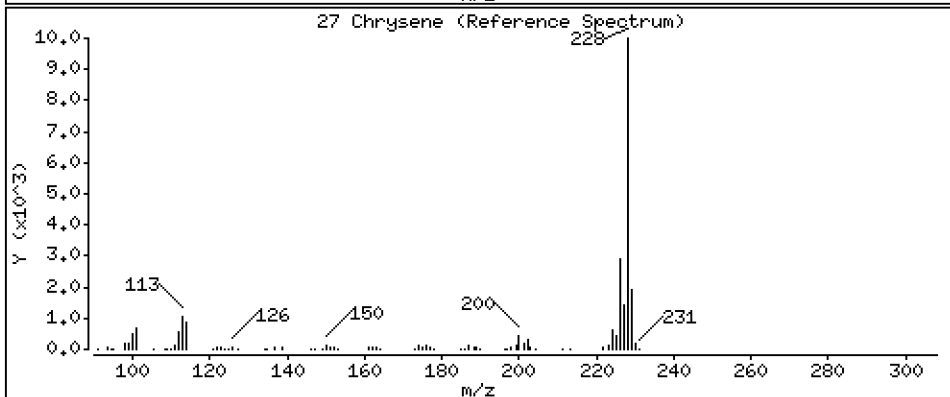
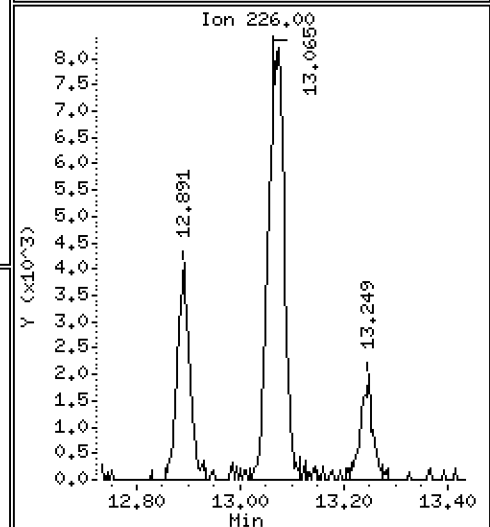
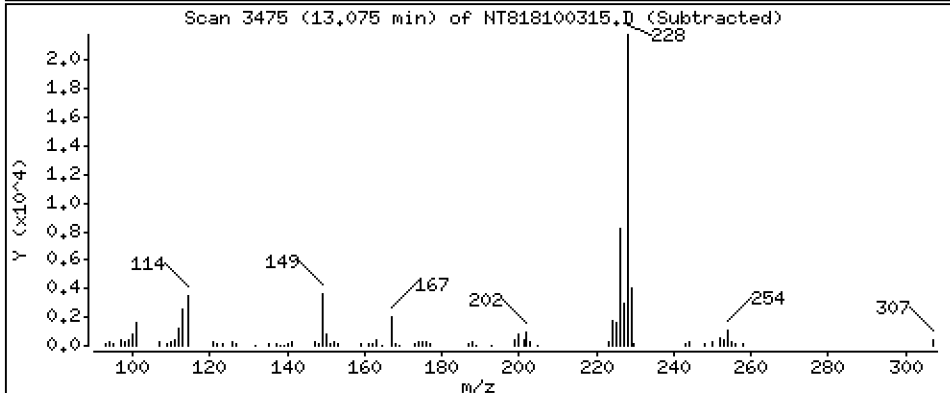
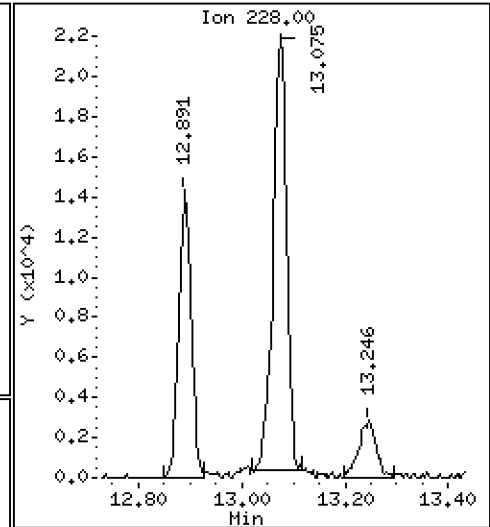
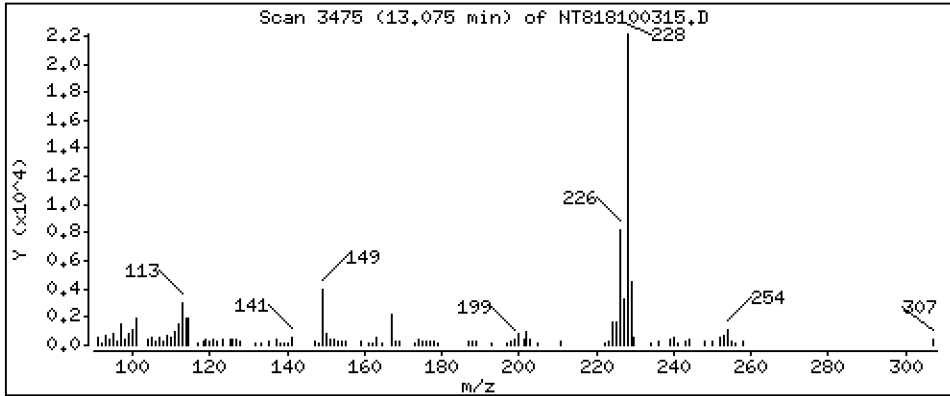
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,3885 ug/mL

27 Chrysene



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

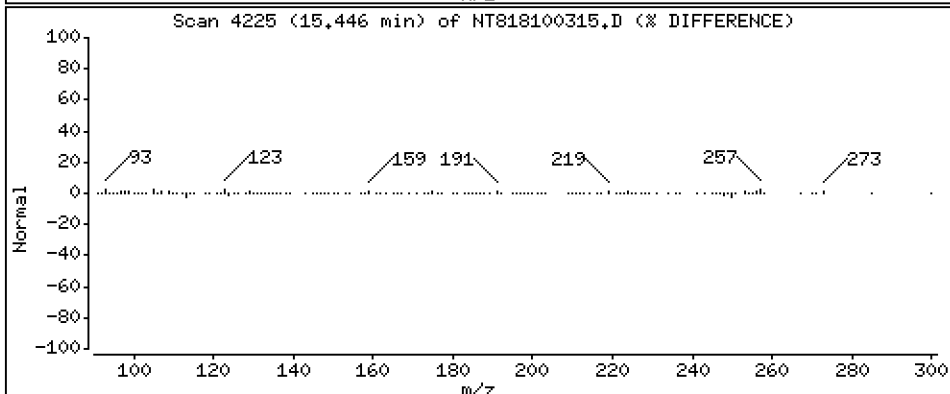
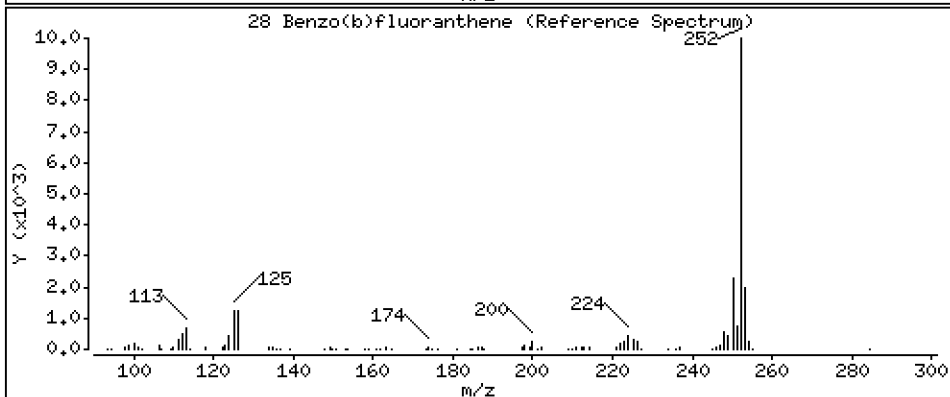
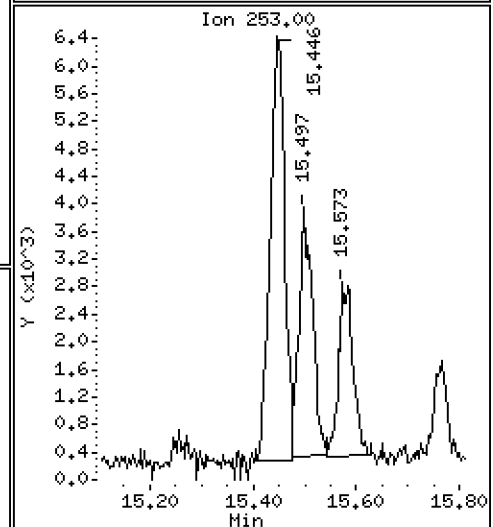
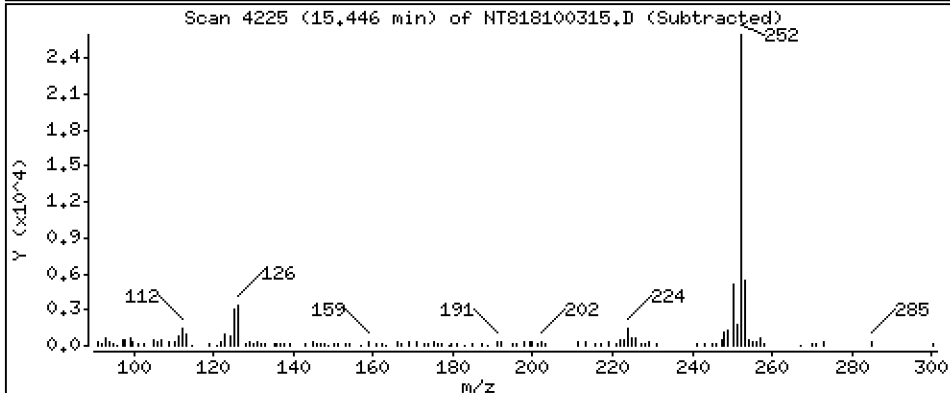
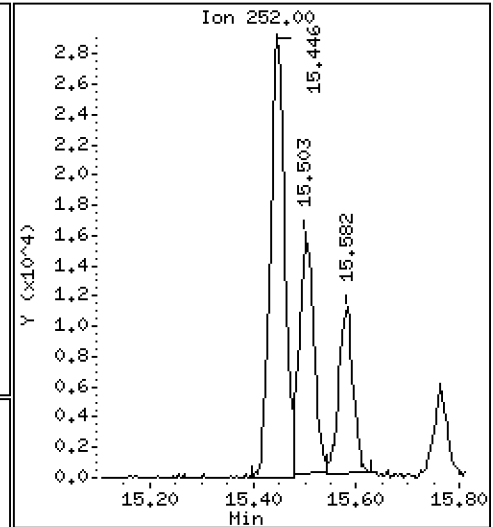
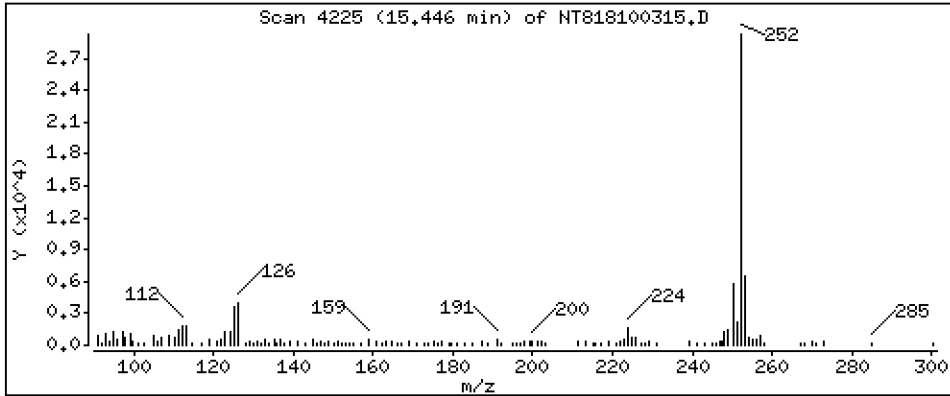
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 0,5288 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

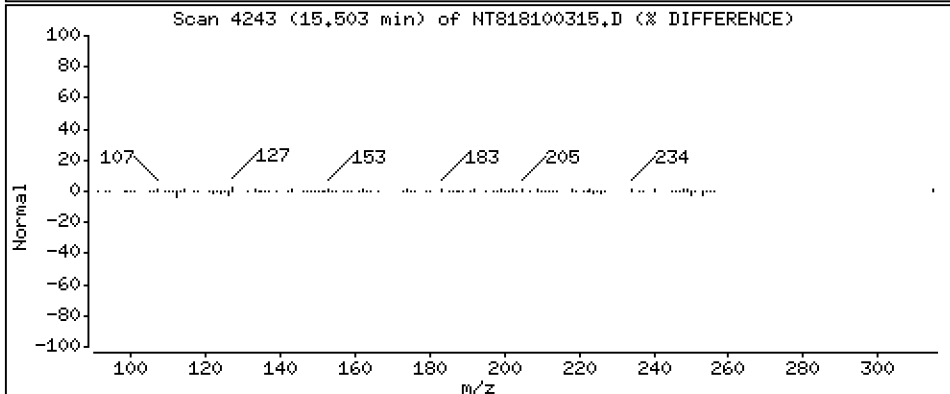
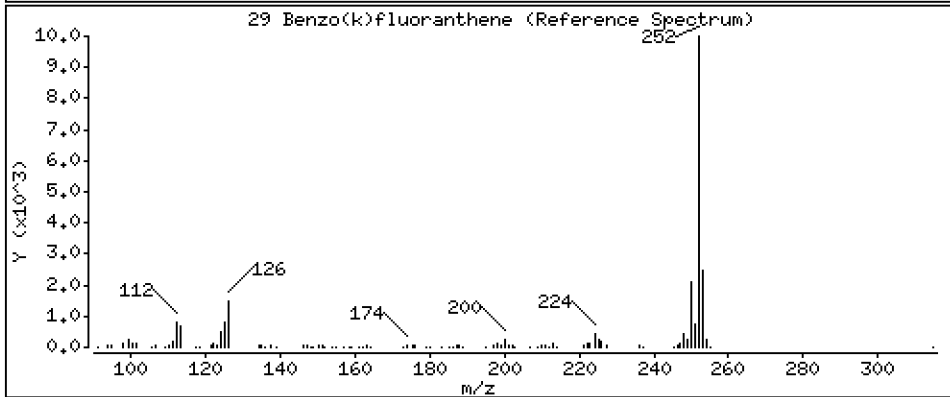
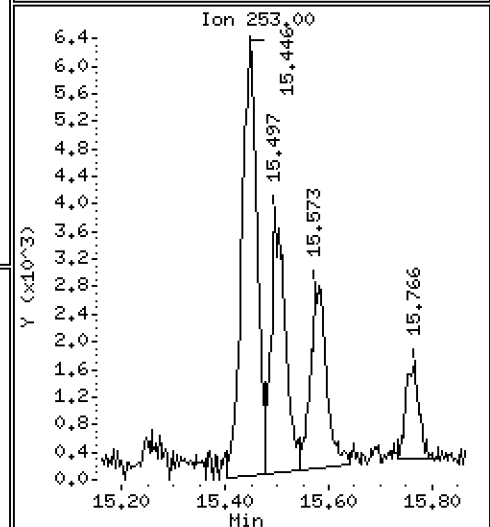
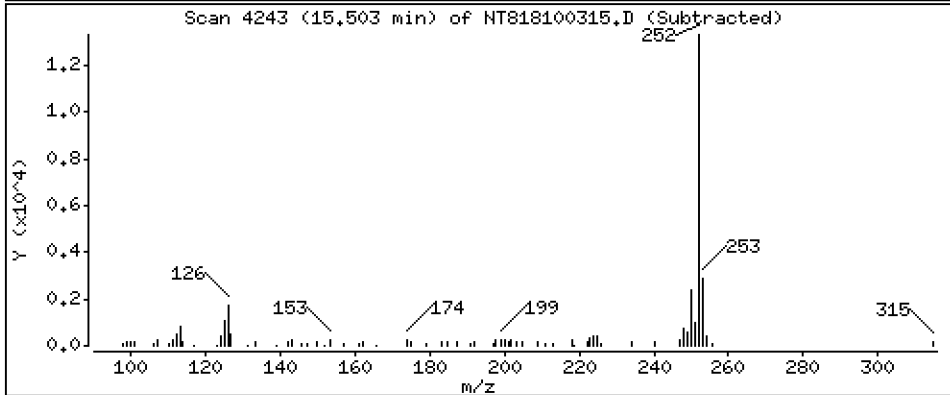
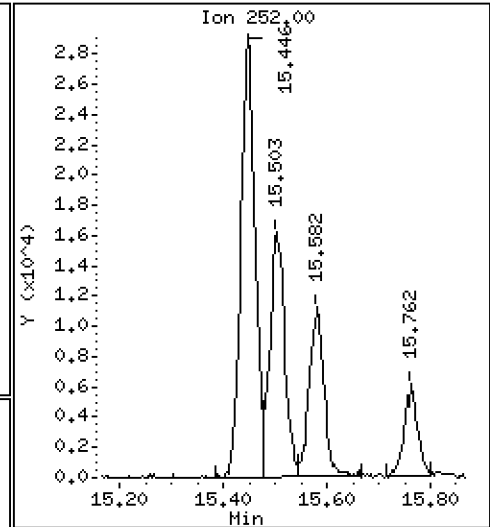
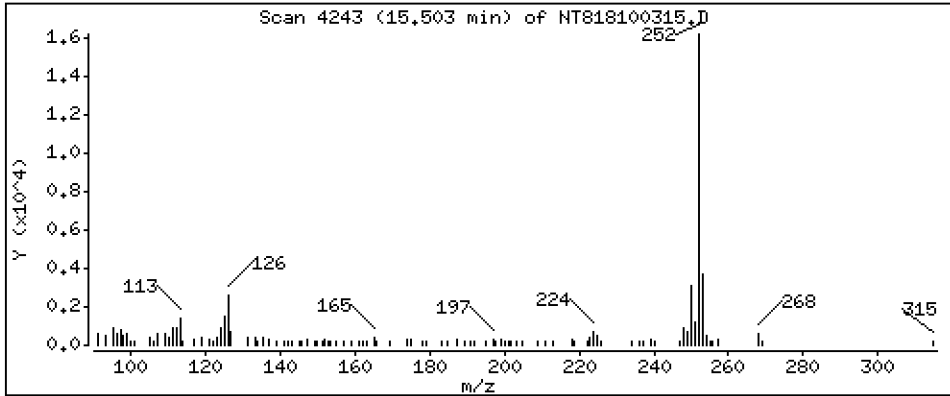
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,3005 ug/mL

29 Benzo(k)fluoranthene



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

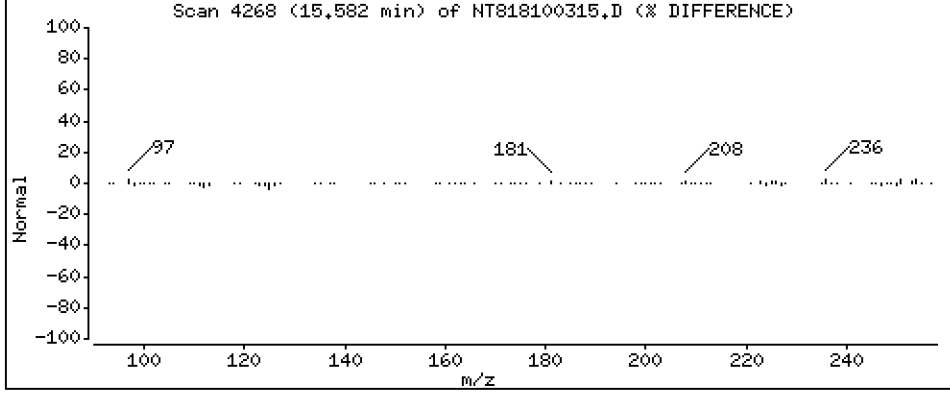
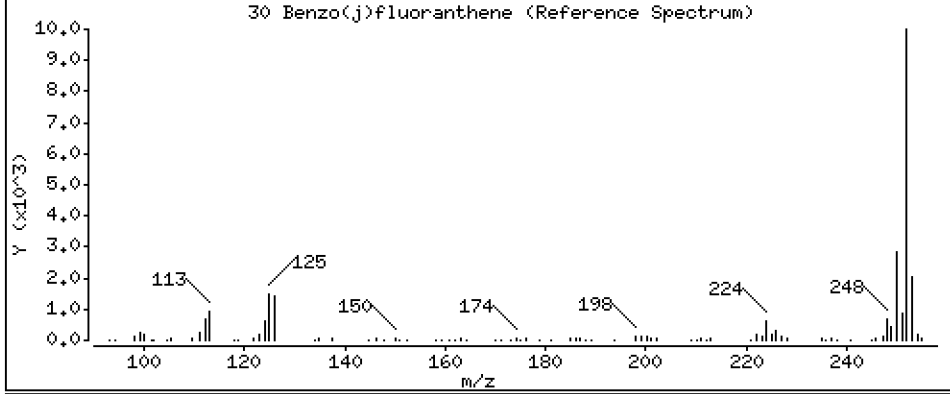
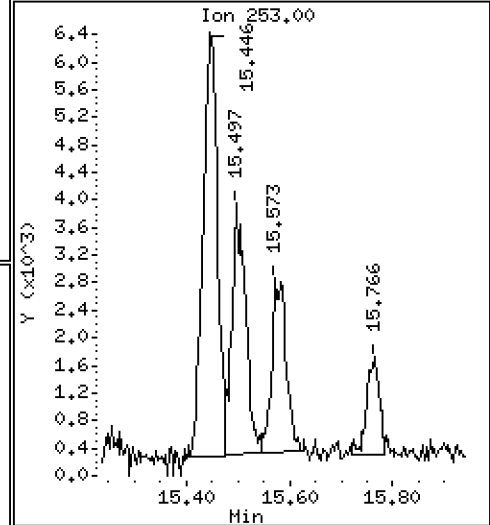
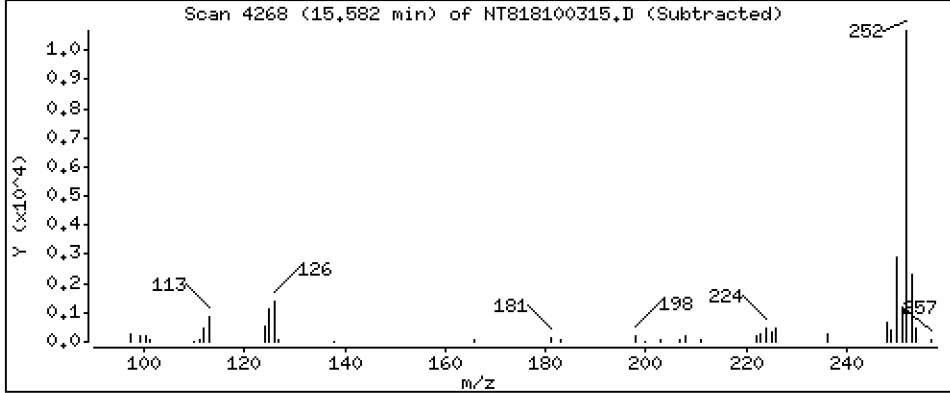
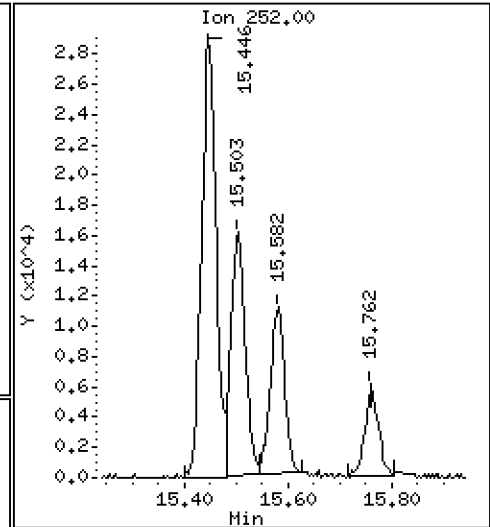
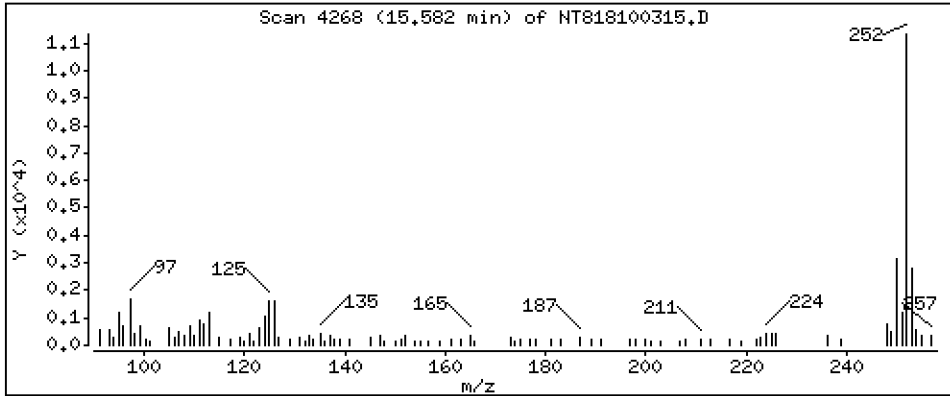
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 0,2046 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

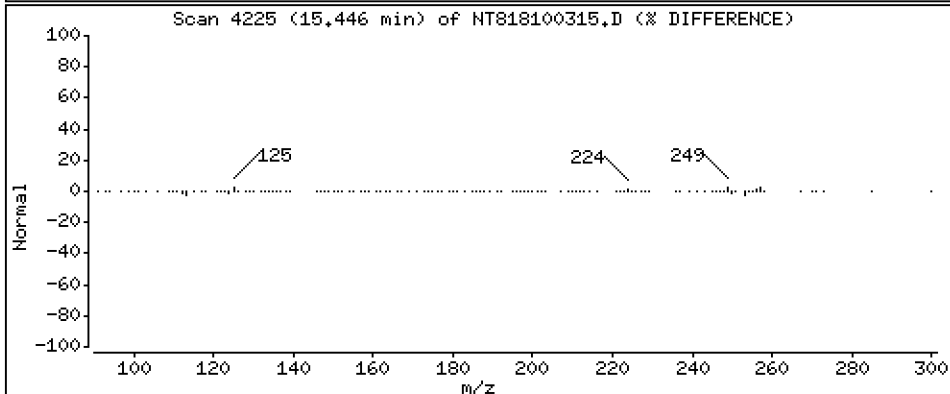
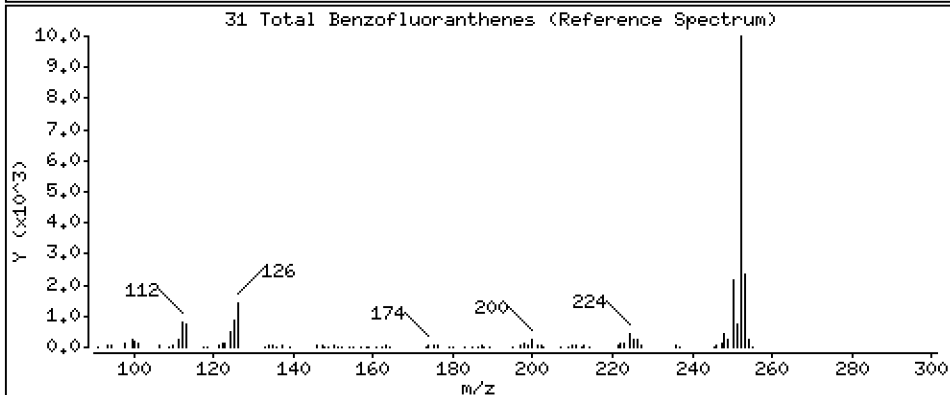
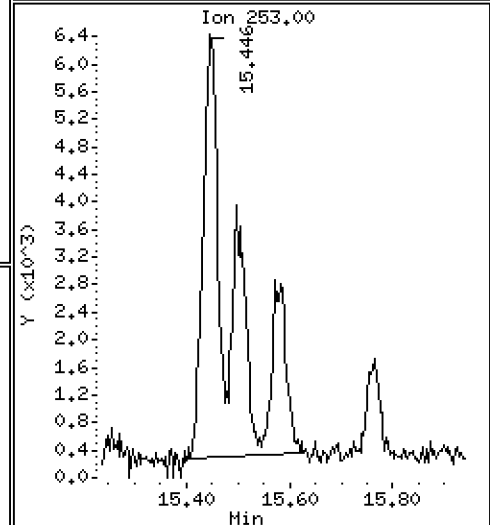
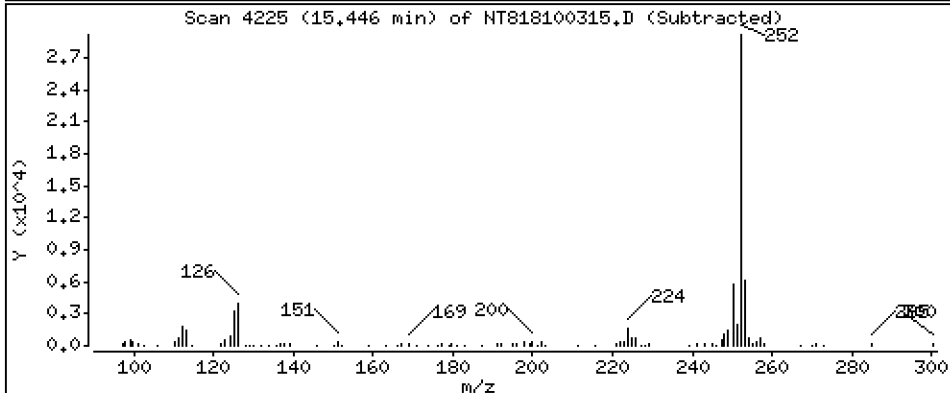
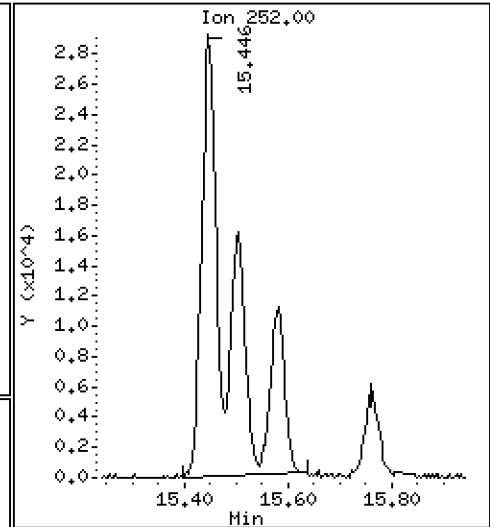
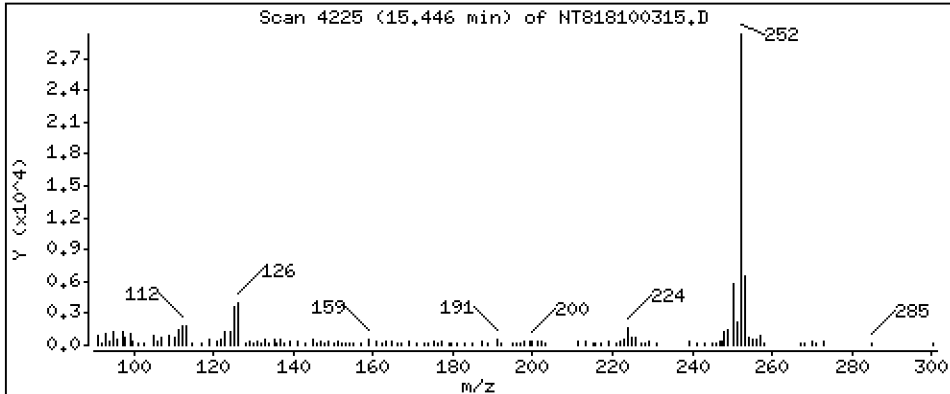
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 1,029 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

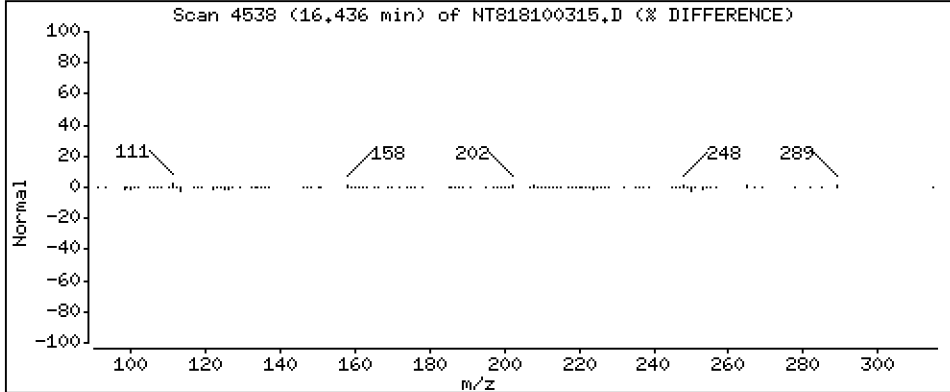
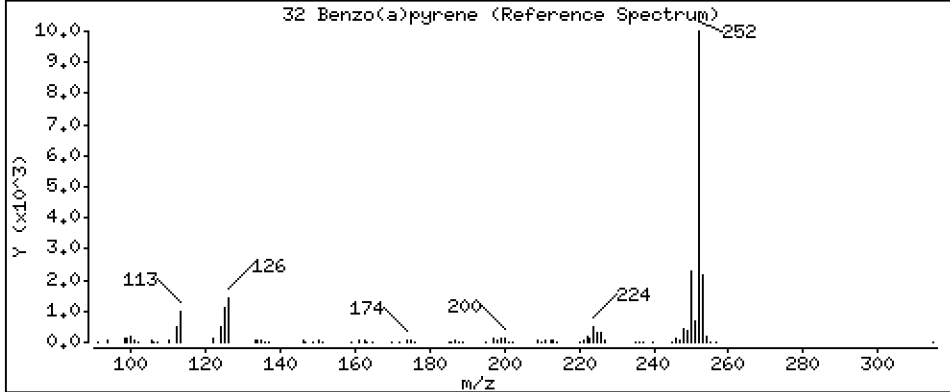
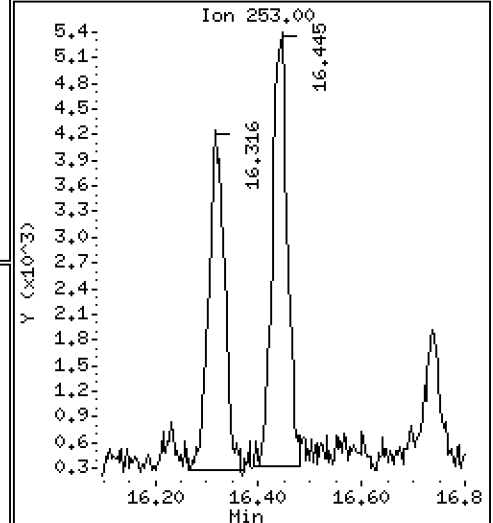
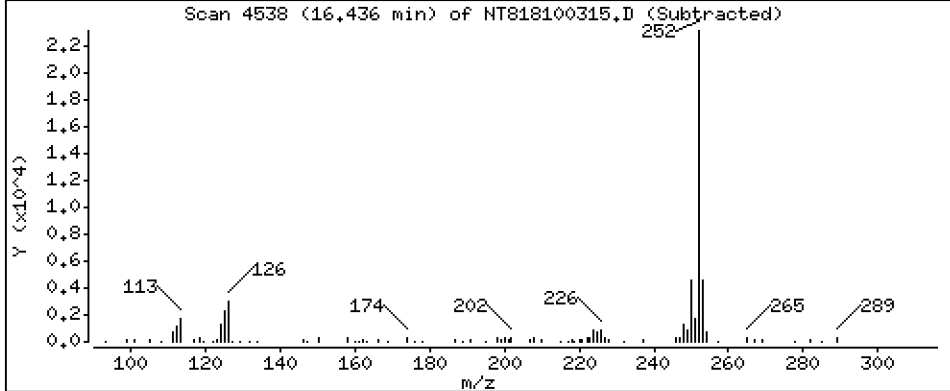
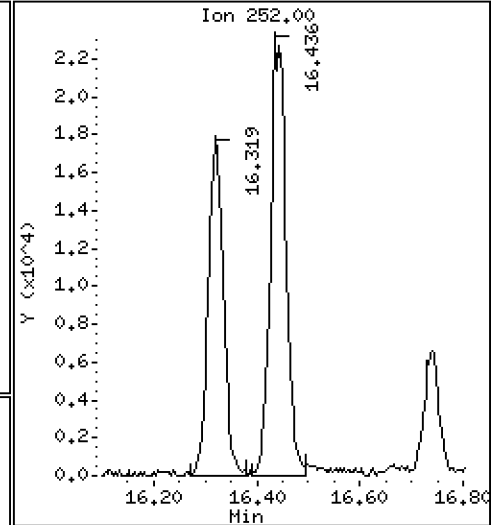
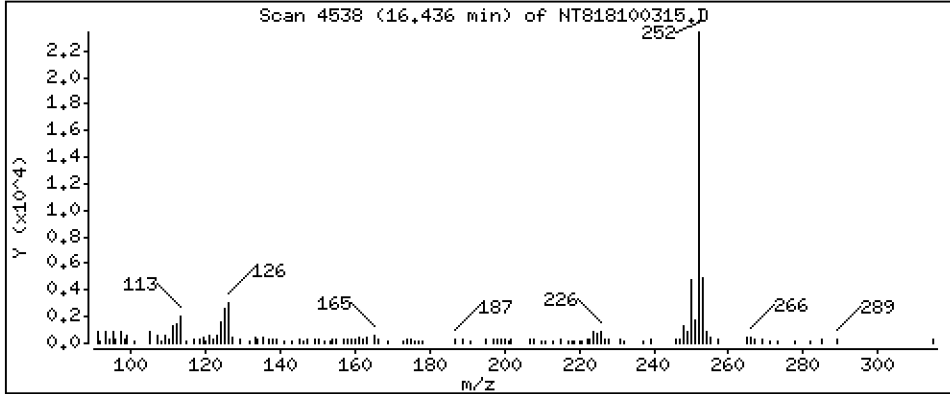
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 0,4988 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

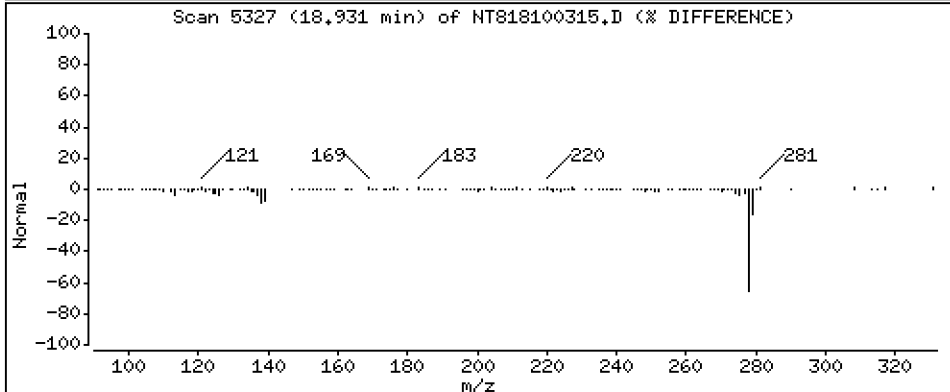
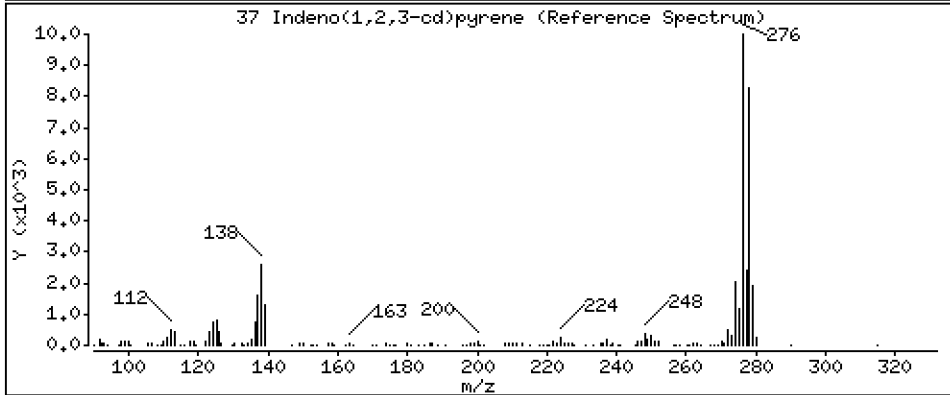
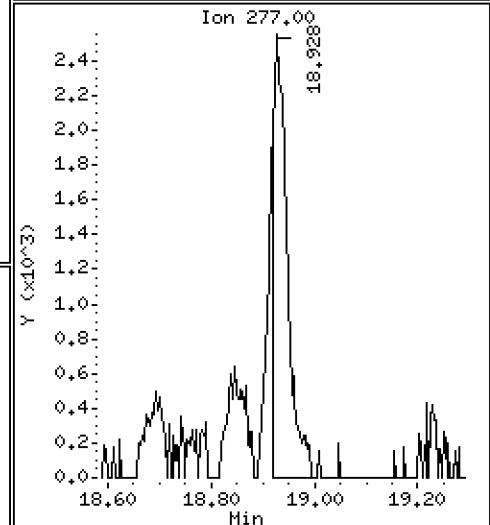
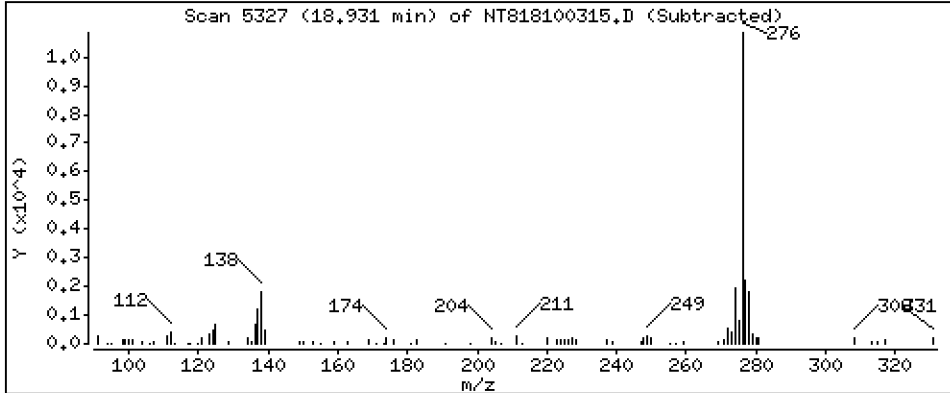
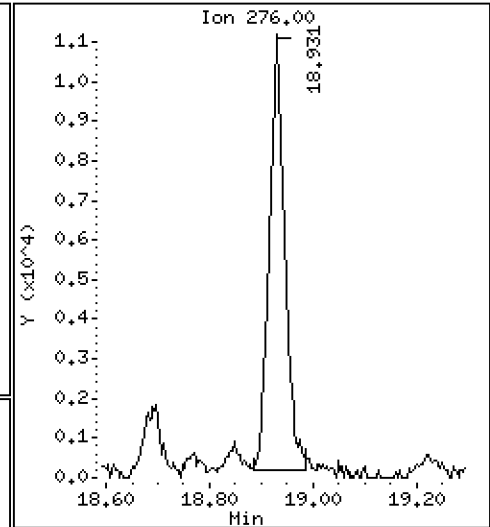
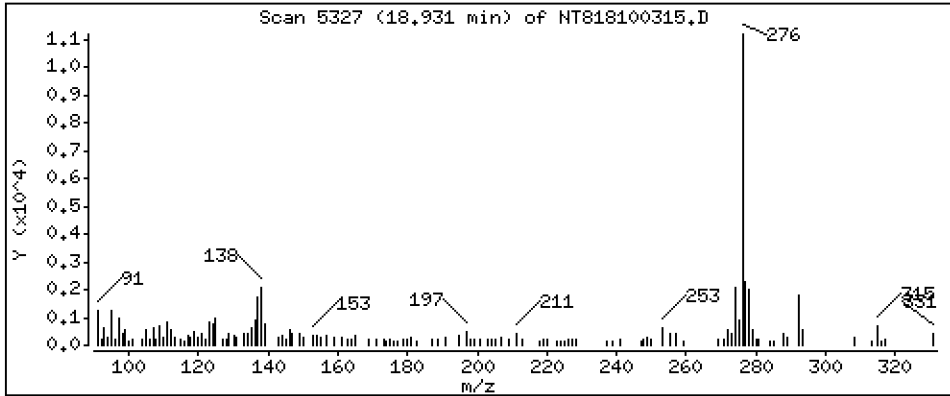
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 0,2201 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 18I0285-37

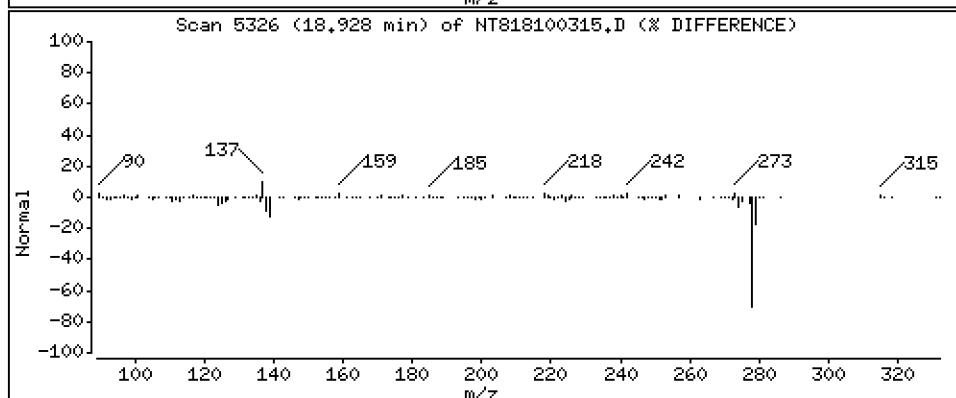
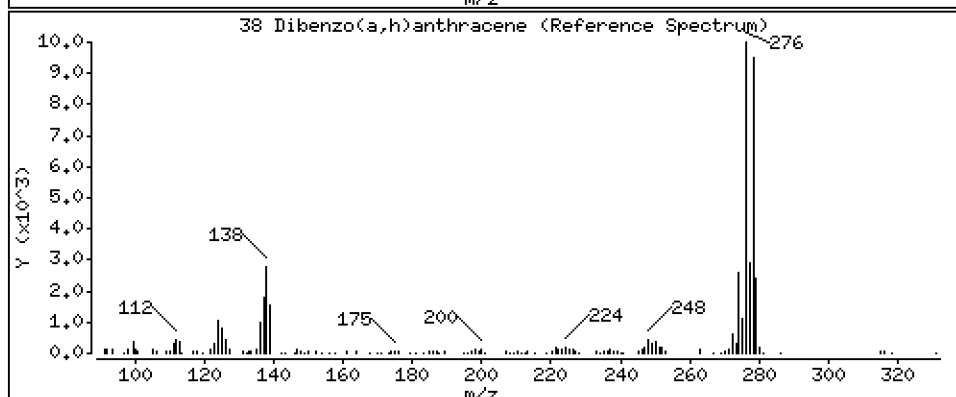
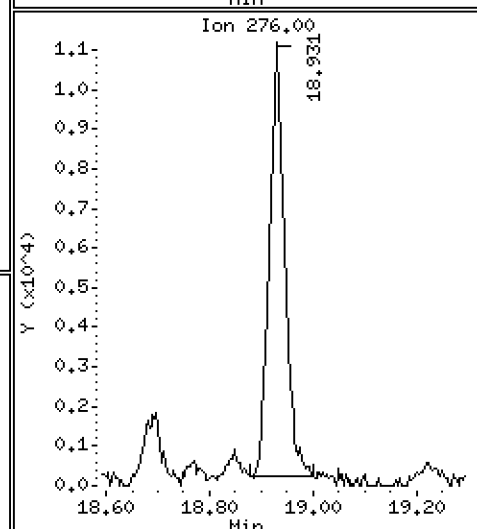
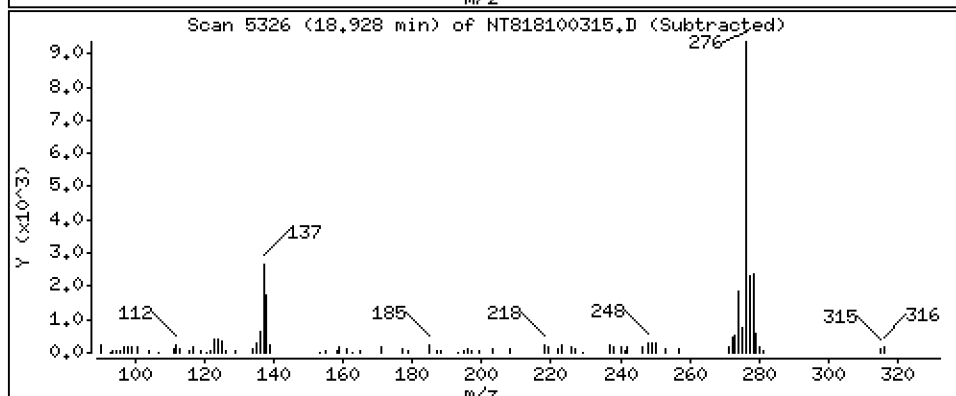
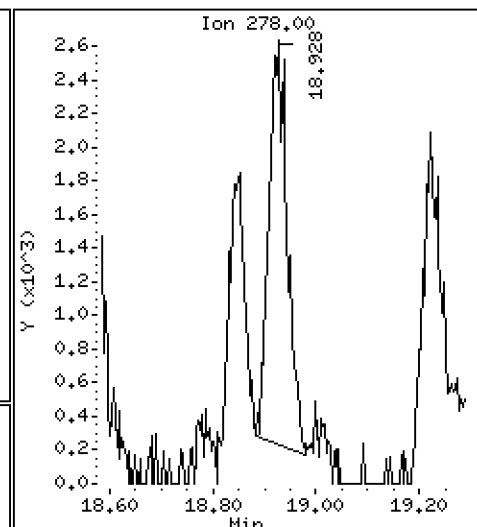
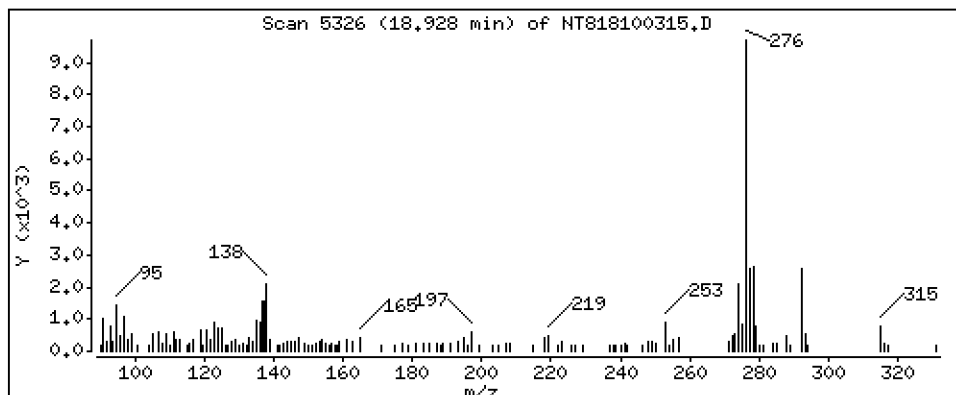
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 0,06920 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 18I0285-37

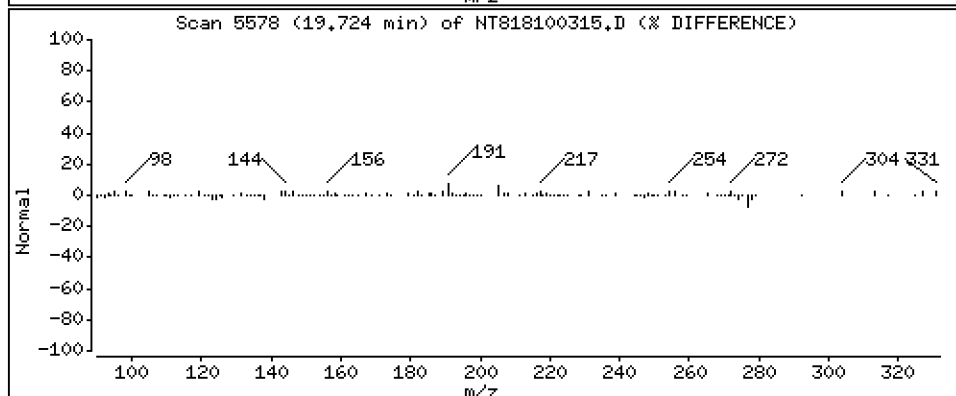
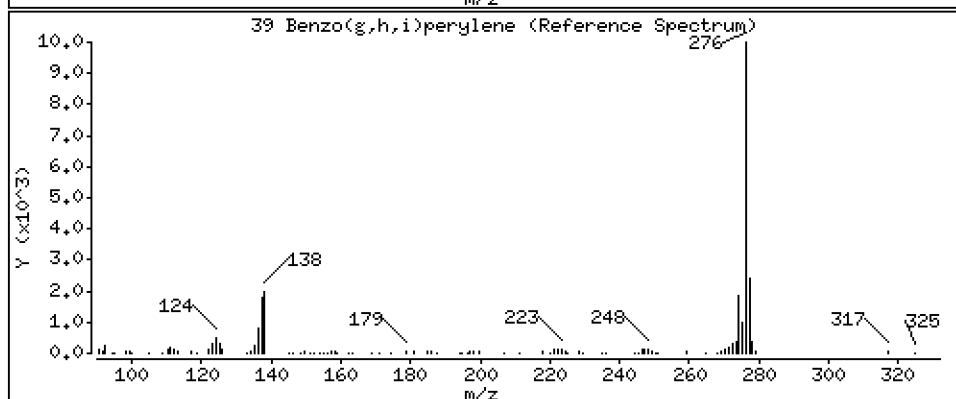
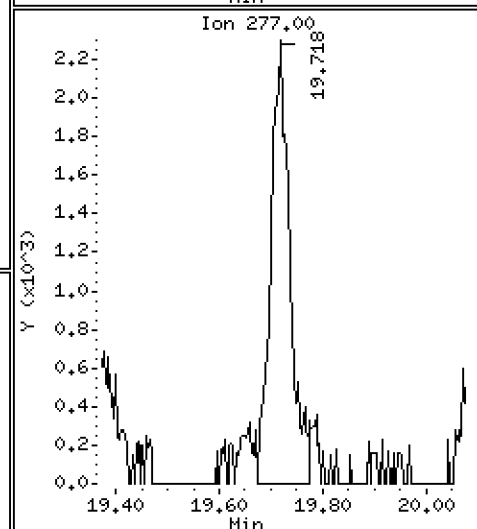
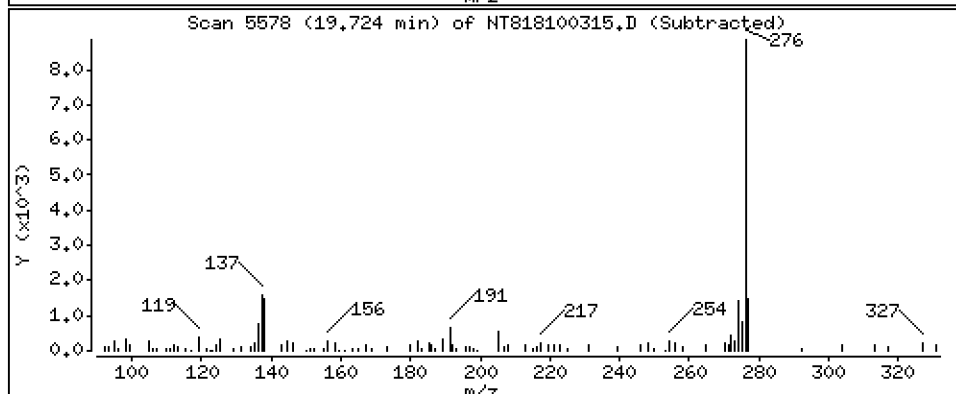
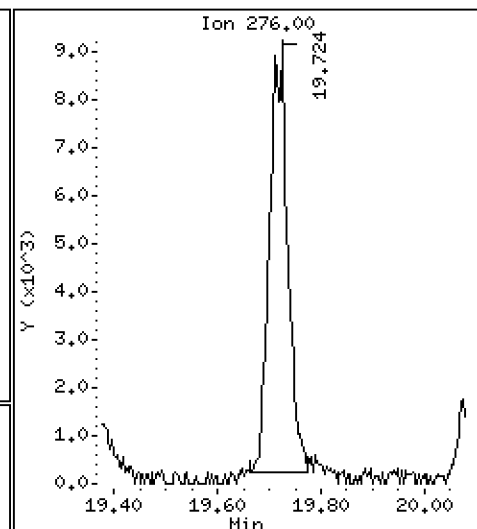
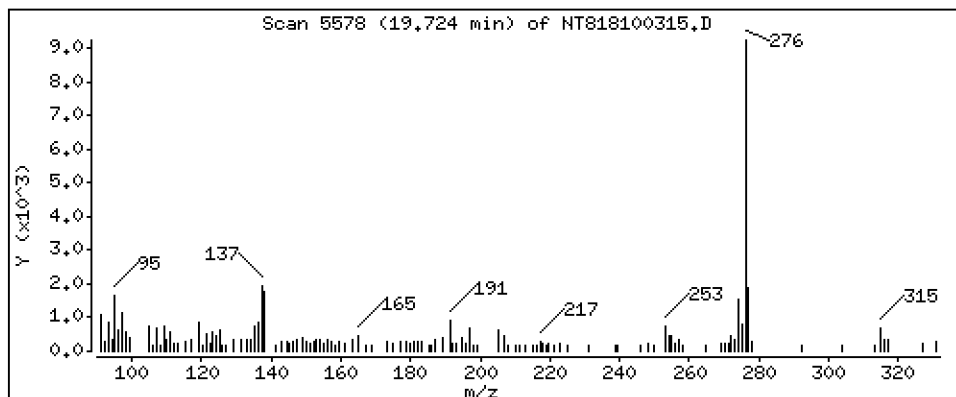
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 0,3075 ug/mL



Date : 03-OCT-2018 17:22

Client ID:

Instrument: nt8.i

Sample Info: 1810285-37

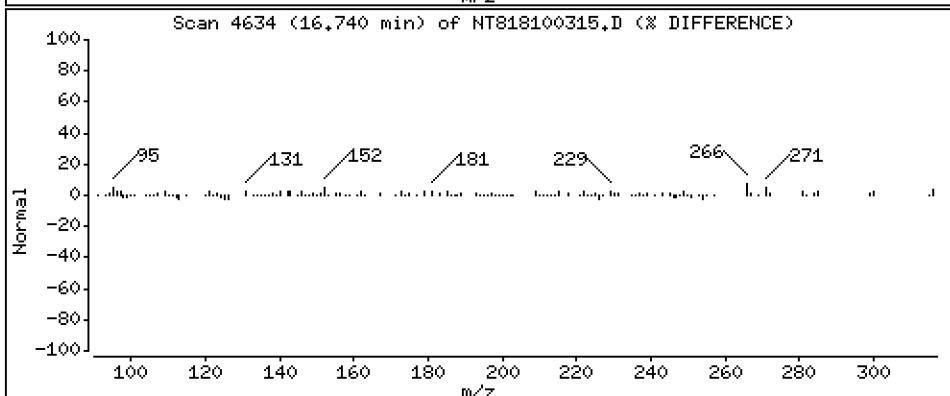
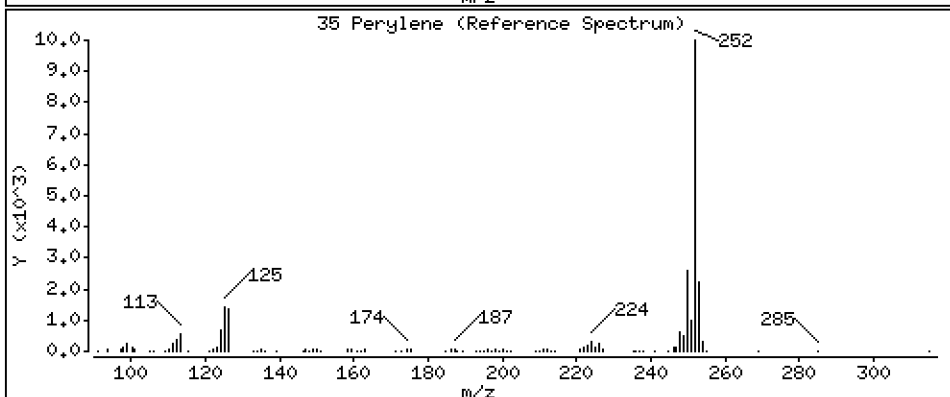
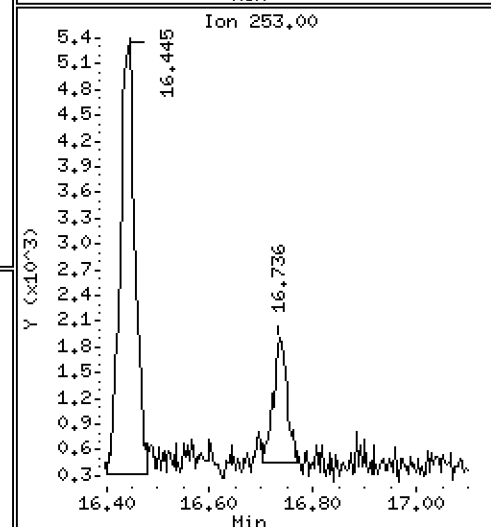
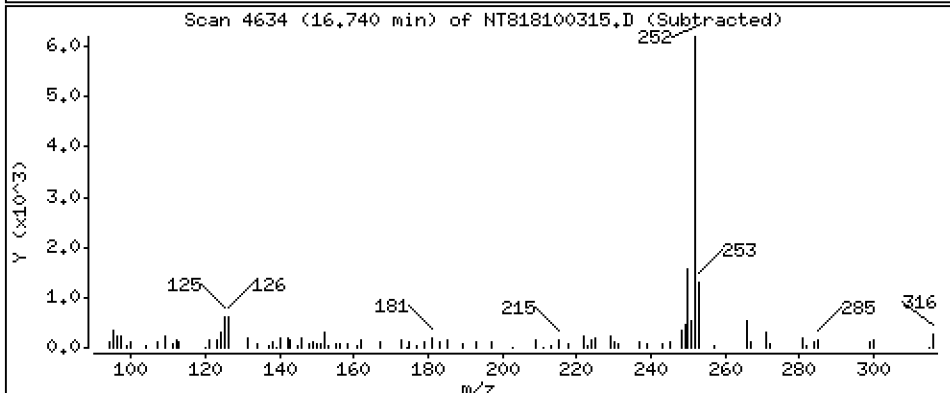
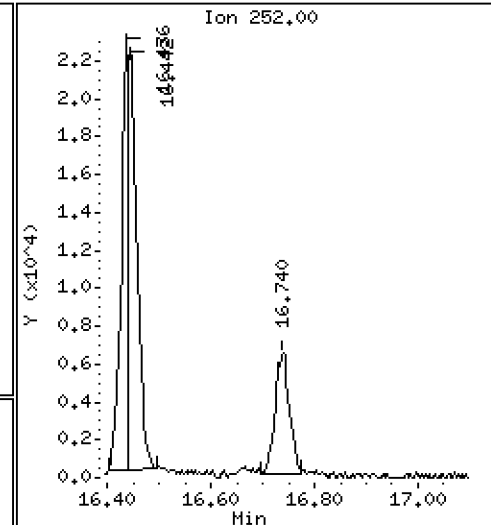
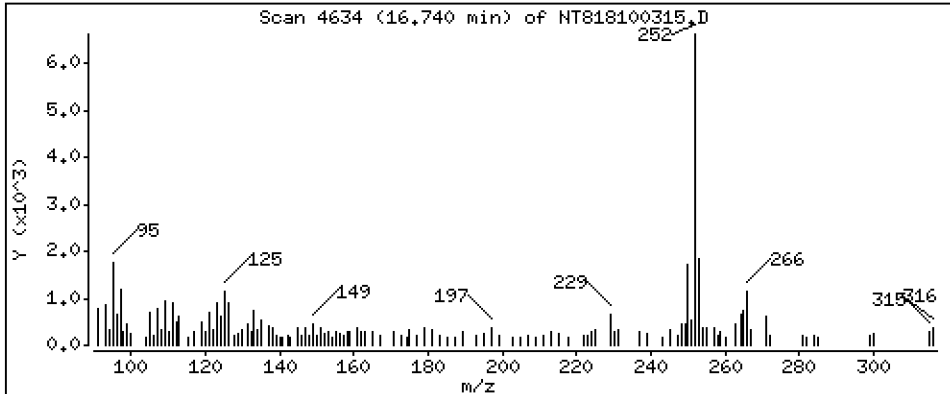
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 0,1227 ug/mL

35 Perylene



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100315.D
 Lab Smp Id: 18I0285-37
 Inj Date : 03-OCT-2018 17:22
 Operator : JZ Inst ID: nt8.i
 Smp Info : 18I0285-37
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.306	4.319	(1.000)	167222	2.00000	
2 Naphthalene	128		4.335	4.347	(1.007)	207035	2.27165	2.272
\$ 3 2-Methylnaphthalene-d10	152		5.033	5.040	(1.169)	95927	1.62208	1.622
4 2-Methylnaphthalene	141		5.078	5.087	(1.179)	9766	0.19110	0.1911
5 1-methylnaphthalene	141		5.274	5.280	(1.225)	6029	0.11459	0.1146
9 Acenaphthylene	152		6.450	6.453	(0.983)	38706	0.41040	0.4104
* 10 Acenaphthene-d10	164		6.561	6.564	(1.000)	88917	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.008)	14175	0.22297	0.2230
12 Dibenzofuran	168		6.757	6.763	(1.030)	18298	0.20777	0.2078
14 Fluorene	166		7.228	7.231	(1.102)	12634	0.17321	0.1732
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	169918	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	85672	0.93490	0.9349
17 Anthracene	178		8.632	8.638	(1.008)	28497	0.31762	0.3176
22 Fluoranthene	202		10.206	10.209	(1.192)	93873	0.88108	0.8811
\$ 21 Fluoranthene-d10	212		10.175	10.178	(1.188)	222554	2.07395	2.074
23 Pyrene	202		10.649	10.655	(0.819)	103775	0.93560	0.9356
24 Benzo(a)anthracene	228		12.891	12.897	(0.991)	24106	0.22476	0.2248
* 25 Chrysene-d12	240		13.008	13.014	(1.000)	186413	2.00000	
27 Chrysene	228		13.074	13.080	(1.005)	39385	0.38853	0.3885
28 Benzo(b)fluoranthene	252		15.446	15.458	(0.926)	57292	0.52877	0.5288
29 Benzo(k)fluoranthene	252		15.503	15.515	(0.930)	32234	0.30047	0.3005
30 Benzo(j)fluoranthene	252		15.582	15.591	(0.935)	20803	0.20457	0.2046
31 Total Benzofluoranthenes	252		15.446	15.591	(0.926)	108242	1.02929	1.029 (M)
32 Benzo(a)pyrene	252		16.435	16.451	(0.986)	48755	0.49883	0.4988
* 33 Perylene-d12	264		16.673	16.672	(1.000)	173749	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.930	18.943	(1.135)	22667	0.22014	0.2201
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.851	18.861	(1.131)	205653	2.63846	2.638
38 Dibenzo(a,h)anthracene	278		18.927	18.936	(1.135)	6001	0.06920	0.06920 (M)
39 Benzo(g,h,i)perylene	276		19.724	19.727	(1.183)	22024	0.30748	0.3075
35 Perylene	252		16.739	16.745	(1.004)	12373	0.12271	0.1227

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100315.D Calibration Time: 11:20
 Lab Smp Id: 18I0285-37
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	167222	26.80
10 Acenaphthene-d10	72272	36136	144544	88917	23.03
15 Phenanthrene-d10	156058	78029	312116	169918	8.88
25 Chrysene-d12	174389	87195	348778	186413	6.89
33 Perylene-d12	150701	75351	301402	173749	15.29

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.29
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	-0.05
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.04
25 Chrysene-d12	13.01	12.51	13.51	13.01	-0.05
33 Perylene-d12	16.67	16.17	17.17	16.67	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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100315.D

Lab ID: 18I0285-37
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 17:22

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.926	0.935	-0.0087	Total Benzofluoranthenes

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

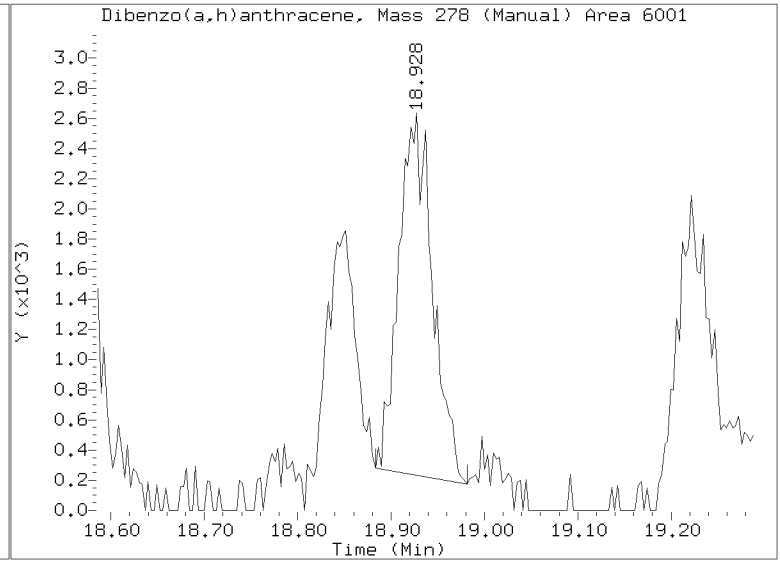
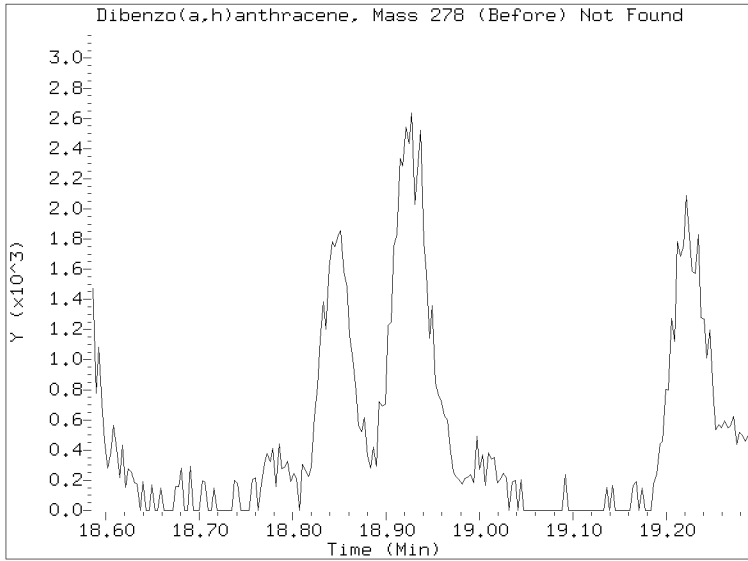
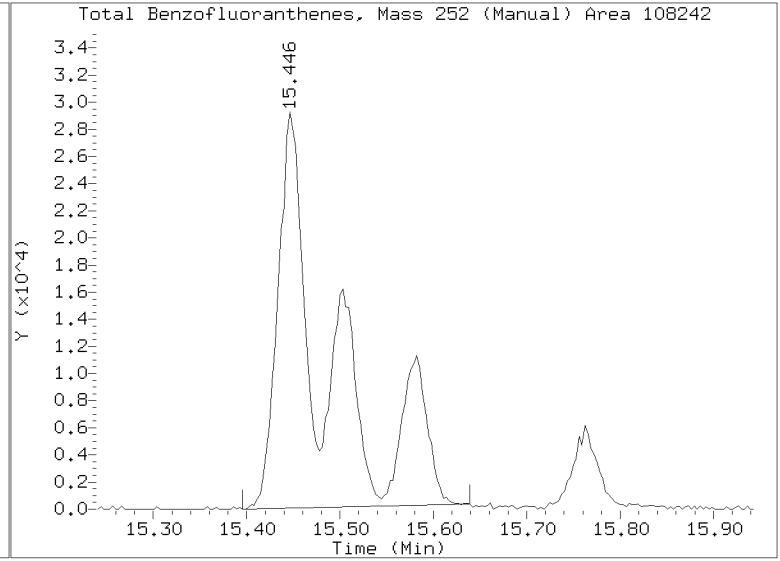
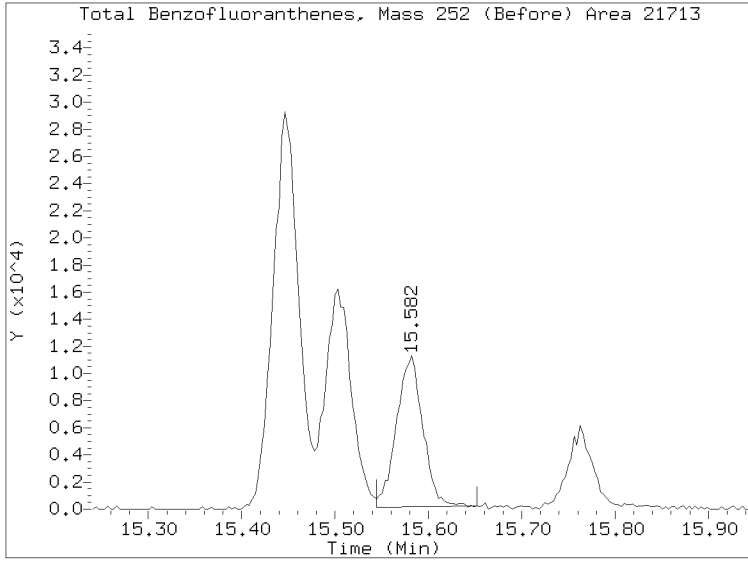
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100315.D

Injection Date: 03-OCT-2018 17:22

Lab ID:18I0285-37 Client ID:

Report Date: 10/09/2018 16:39





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270D-SIM
Polynuclear Aromatic Hydrocarbons

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Water

Laboratory ID: 1810285-38

SDG: 1810285

Sampled: 09/19/18 11:20

Prepared: 09/24/18 19:10

File ID: NT818092706.D

% Solids:

Preparation: EPA 3520C (Liq Liq)

Analyzed: 09/27/18 14:29

Batch: BGI0618

Sequence: SGI0437

Initial/Final: 500 mL / 0.5 mL

Instrument: NT8

Column: RXI-17Sil ms

Calibration: BH00016

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	RL
91-20-3	Naphthalene	1	0.09	J	0.02	0.10
91-57-6	2-Methylnaphthalene	1	0.10	U	0.03	0.10
90-12-0	1-Methylnaphthalene	1	0.10	U	0.02	0.10
208-96-8	Acenaphthylene	1	0.10	U	0.02	0.10
83-32-9	Acenaphthene	1	0.10	U	0.02	0.10
86-73-7	Fluorene	1	0.10	U	0.02	0.10
85-01-8	Phenanthrene	1	0.10	U	0.02	0.10
120-12-7	Anthracene	1	0.10	U	0.02	0.10
206-44-0	Fluoranthene	1	0.10	U	0.02	0.10
129-00-0	Pyrene	1	0.10	U	0.03	0.10
56-55-3	Benzo(a)anthracene	1	0.10	U	0.05	0.10
218-01-9	Chrysene	1	0.10	U	0.06	0.10
205-99-2	Benzo(b)fluoranthene	1	0.10	U	0.09	0.10
207-08-9	Benzo(k)fluoranthene	1	0.10	U	0.09	0.10
205-82-3	Benzo(j)fluoranthene	1	0.10	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.10	U	0.06	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.10	U	0.08	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.10	U	0.09	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.10	U	0.07	0.10
	Benzo(a)fluoranthenes, Total	1	0.20	U	0.19	0.20

SURROGATES	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	3.0000	1.71	56.9	31 - 120	
Dibenzo[a,h]anthracene-d14	3.0000	2.85	95.1	10 - 125	
Fluoranthene-d10	3.0000	2.12	70.8	46 - 121	

Data File: \\target\share\chem3\nt8.1\20180927.b\NT818092706.D

Date: 27-SEP-2018 14:29

Client ID:

Sample Info: 1810285-38

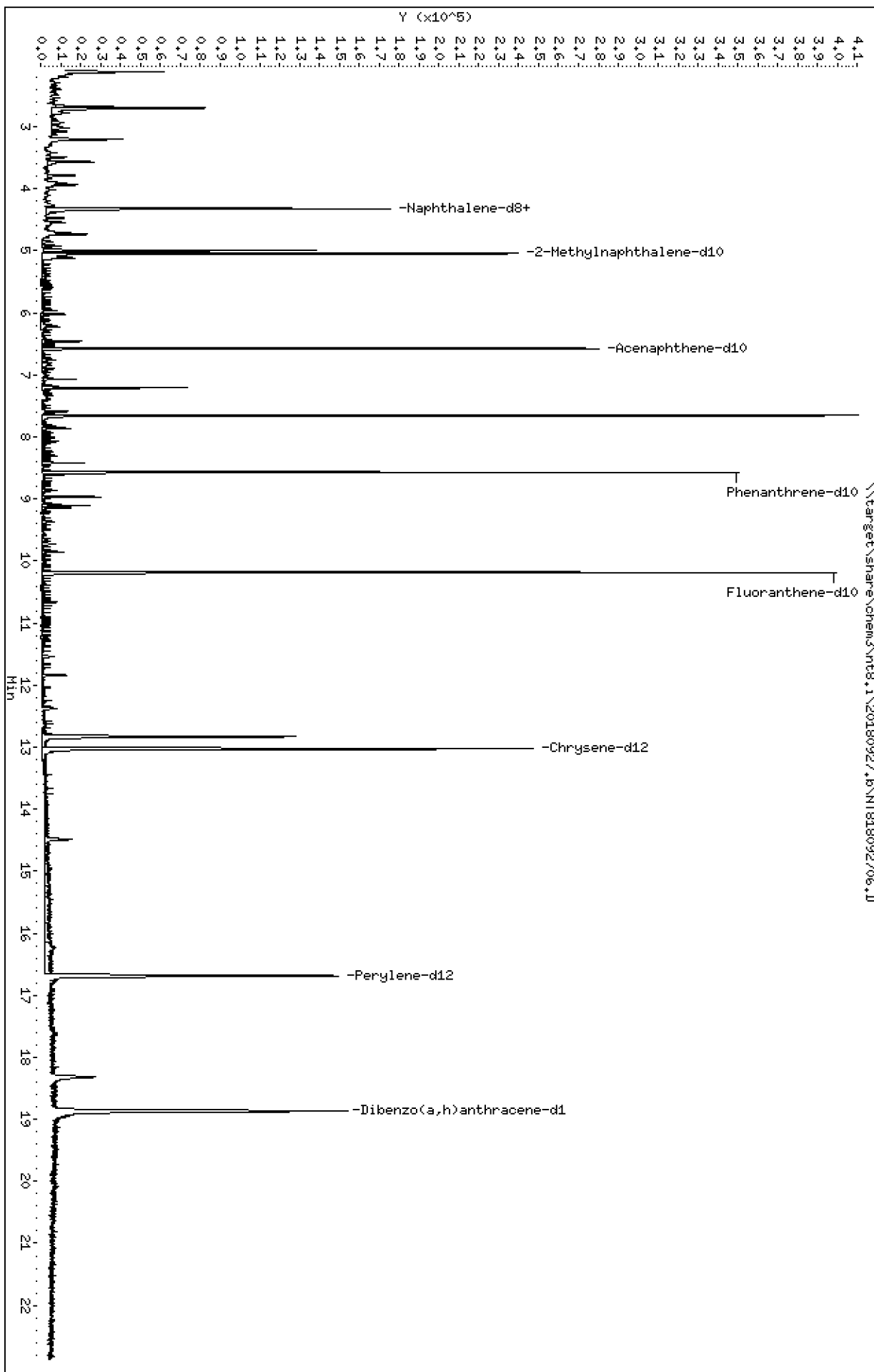
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 27-SEP-2018 14:29

Client ID:

Instrument: nt8.i

Sample Info: 1810285-38

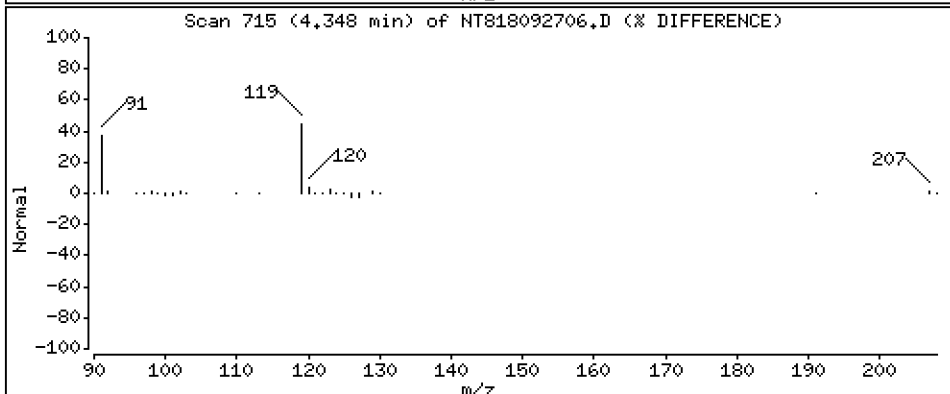
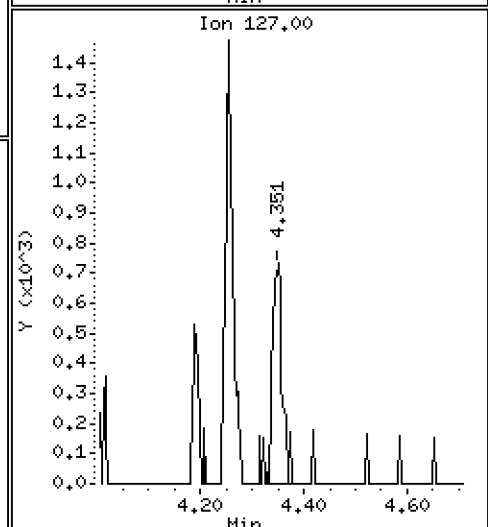
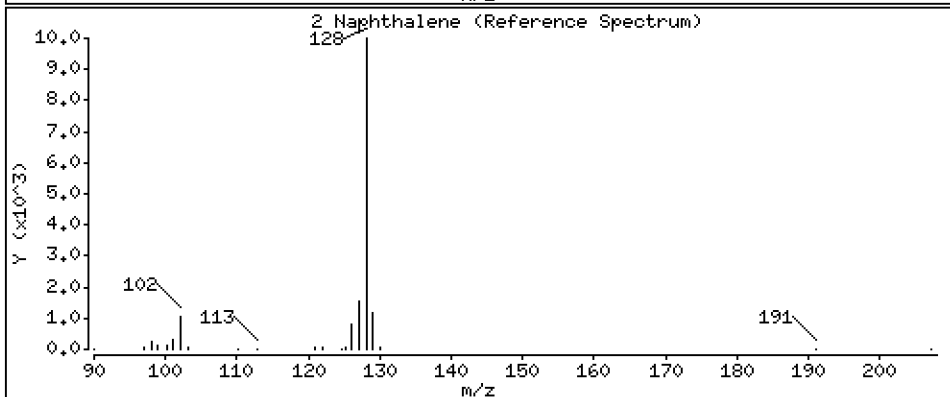
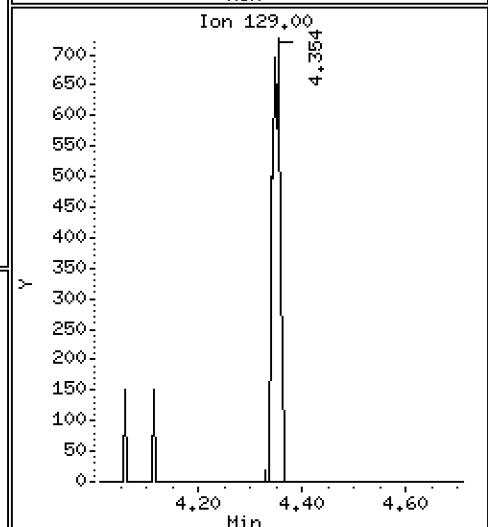
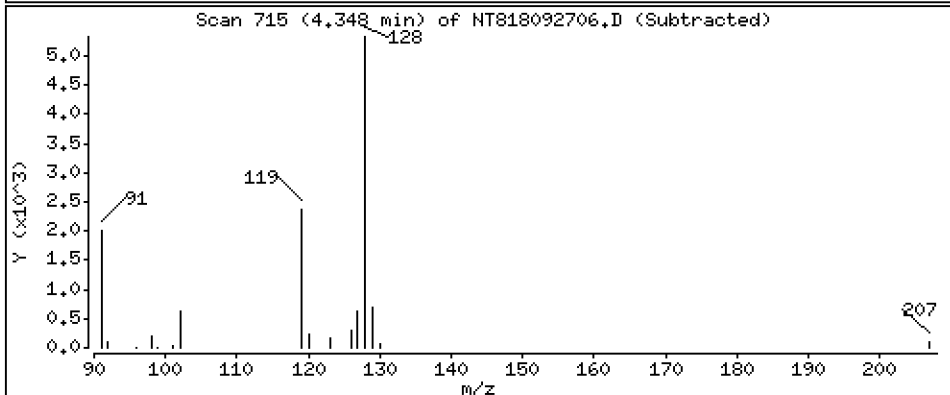
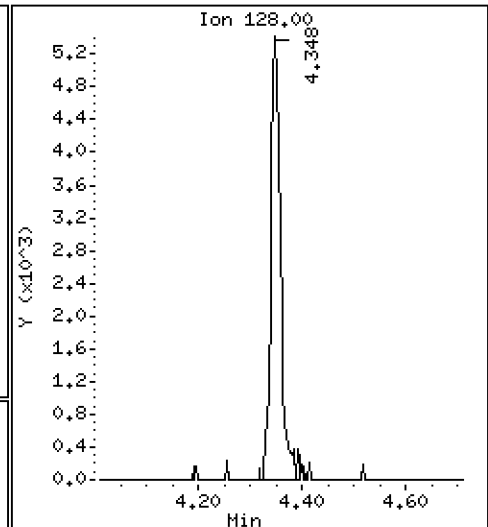
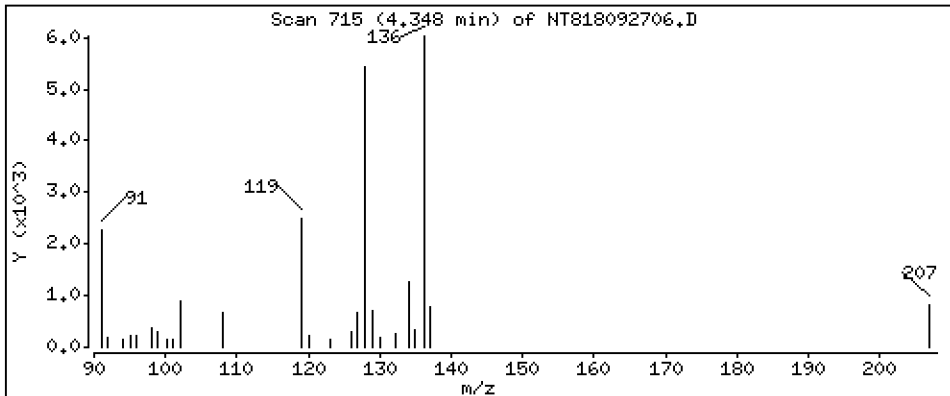
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 0.08781 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180927.b\NT818092706.D
 Lab Smp Id: 18I0285-38
 Inj Date : 27-SEP-2018 14:29
 Operator : JZ Inst ID: nt8.i
 Smp Info : 18I0285-38
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Meth Date : 27-Sep-2018 14:12 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.319	4.331	(1.000)	147787	2.00000	
2 Naphthalene	128		4.347	4.360	(1.007)	7073	0.08781	0.08781
\$ 3 2-Methylnaphthalene-d10	152		5.043	5.052	(1.168)	89291	1.70842	1.708
4 2-Methylnaphthalene	141		Compound Not Detected.					
5 1-methylnaphthalene	141		Compound Not Detected.					
9 Acenaphthylene	152		Compound Not Detected.					
* 10 Acenaphthene-d10	164		6.573	6.576	(1.000)	77971	2.00000	
11 Acenaphthene	153		Compound Not Detected.					
12 Dibenzofuran	168		Compound Not Detected.					
14 Fluorene	166		Compound Not Detected.					
* 15 Phenanthrene-d10	188		8.571	8.575	(1.000)	152913	2.00000	
16 Phenanthrene	178		Compound Not Detected.					
17 Anthracene	178		Compound Not Detected.					
22 Fluoranthene	202		Compound Not Detected.					
\$ 21 Fluoranthene-d10	212		10.187	10.187	(1.188)	205044	2.12326	2.123
23 Pyrene	202		Compound Not Detected.					
24 Benzo(a)anthracene	228		Compound Not Detected.					
* 25 Chrysene-d12	240		13.024	13.027	(1.000)	161260	2.00000	
27 Chrysene	228		Compound Not Detected.					
28 Benzo(b)fluoranthene	252		Compound Not Detected.					
29 Benzo(k)fluoranthene	252		Compound Not Detected.					
30 Benzo(j)fluoranthene	252		Compound Not Detected.					
31 Total Benzofluoranthenes	252		Compound Not Detected.					
32 Benzo(a)pyrene	252		Compound Not Detected.					
* 33 Perylene-d12	264		16.685	16.695	(1.000)	111034	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		Compound Not Detected.					
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.867	18.873	(1.131)	142163	2.85409	2.854
38 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
39 Benzo(g,h,i)perylene	276		Compound Not Detected.					
35 Perylene	252		Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 27-SEP-2018
 Lab File ID: NT818092706.D Calibration Time: 10:58
 Lab Smp Id: 18I0285-38
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	147787	12.06
10 Acenaphthene-d10	72272	36136	144544	77971	7.89
15 Phenanthrene-d10	156058	78029	312116	152913	-2.02
25 Chrysene-d12	174389	87195	348778	161260	-7.53
33 Perylene-d12	150701	75351	301402	111034	-26.32

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.33	3.83	4.83	4.32	-0.30
10 Acenaphthene-d10	6.58	6.08	7.08	6.57	-0.05
15 Phenanthrene-d10	8.58	8.08	9.08	8.57	-0.04
25 Chrysene-d12	13.03	12.53	13.53	13.02	-0.03
33 Perylene-d12	16.70	16.20	17.20	16.69	-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.

cgal: //target/share/chem3/nt8.i/20180927.b/NT818092702.D
REVIEW SUMMARY FOR FILE - NT818092706.D

Lab ID: 18I0285-38
nt8.i, 20180927.b\FSIMPNA180803.m, 27-SEP-2018 14:29

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	0.935	0.0654	Benzo(j)fluoranthene
1.000	0.930	0.0697	Total Benzofluoranthenes
1.000	0.979	0.0208	Benzo(e)pyrene
1.000	0.986	0.0138	Benzo(a)pyrene
1.168	1.136	0.0320	Indeno(1,2,3-cd)pyrene
1.188	1.183	0.0055	Benzo(g,h,i)perylene
0.000	1.000	-1.0000	Naphthalene-d8
0.000	1.000	-1.0000	Acenaphthene-d10
0.000	1.000	-1.0000	Phenanthrene-d10
0.000	1.000	-1.0000	Chrysene-d12
0.000	1.000	-1.0000	Perylene-d12
0.000	1.166	-1.1664	2-Methylnaphthalene-d10
0.000	1.188	-1.1881	Fluoranthene-d10
0.000	1.130	-1.1305	Dibenzo(a,h)anthracene-d14

RRT check based on Cgal File: NT818092702.D

On Column LOD for nt8.i, 20180927.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *



PREPARATION BATCH SUMMARY

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Batch: BGI0618

Batch Matrix: Water

Preparation: EPA 3520C (Liq Liq)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PGLTM-RB-180919	18I0285-38	NT818092706.D	09/24/18 19:10	
Blank	BGI0618-BLK1	NT818092703.D	09/24/18 19:10	
LCS	BGI0618-BS1	NT818092704.D	09/24/18 19:10	
LCS Dup	BGI0618-BSD1	NT818092705.D	09/24/18 19:10	



Batch: BGI0618

Prepared using: EPA 3520C (Liq Liq)

8270D-SIM PAH (0.1 ug/L or 5 ug/kg) in Water (Version:Port Gamble)

Matrix: Water

Date Prepared: 9/24/18

Balance ID: N/A

Set Up By: CT 9/24/18

The following standards may be missing from this batch!

Designator	Description
QLS 4	QLS Spike

Analysis: 8270D-SIM PAH (0.1 ug/L or 5 ug/kg)

Lab Number & Container	Initial (mL) Actual	Disassemble Liq/Liq (Mantle #)	(Opt) Silica Gel C/U (1:1) Y/N	Liq/Liq Start Time	Liq/Liq End Time	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
1810285-38 C	(500.00) <u>500</u>	<u>22</u>	(1:1) Y/ <u>N</u>	<u>19:20</u>	<u>6:00</u>	0.5	0.5	

Batch QC

Lab Number	Initial (mL) Actual	Disassemble Liq/Liq (Mantle #)	(Opt) Silica Gel C/U (1:1) Y/N	Liq/Liq Start Time	Liq/Liq End Time	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BGI0618-BLK1	(500.00) <u>500</u>	<u>19</u>	(1:1) Y/ <u>N</u>	<u>19:20</u>	<u>6:00</u>	0.5	0.5	
BGI0618-BS1	(500.00) <u>500</u>	<u>20</u>	(1:1) Y/ <u>N</u>	↓	↓	0.5	0.5	
BGI0618-BSD1	(500.00) <u>500</u>	<u>21</u>	(1:1) Y/ <u>N</u>	↓	↓	0.5	0.5	

[Signature]

9/24/18

Client ID verified By _____ Date

[Signature]

Preparation Reviewed By _____ Date

9/24/18 19:10

Extraction Date and Time



Prep Steps	Reagents Used	Surrogates & Spike Standards Used	
Liquid/Liquid <i>QA 9/24/18</i> Analyst/Date	Station/Reagent	Standard ID	
	Liquid/Liquid Setup Analyst: <i>AE</i> Date: <i>9/24/18</i>		
KD 80 - 85°C Hexane Exchange (2 X 20 mL) 100°C <i>(1) 2 3 4 (5) 6</i> <i>MM 9/26/18</i> Analyst/Date	Methylene Chloride	<i>6007622</i>	
	Hexane	<i>6008178</i>	
TurboVap Pre Silica Gel Clean <i>(1) 2 3 4 5</i> Analyst/Date	Liquid/Liquid Breakdown Analyst: <i>BH</i> Date: <i>9/25/18</i>	Type	
	Anhydrous Sodium Sulfate	<i>6008080</i>	Surrogate
TurboVap Post Silica Gel Clean <i>1 2 3 4 5</i> <i>A</i> Analyst/Date	KD Analyst: <i>MM</i> Date: <i>9/26/18</i>	Standard ID	
	Methylene Chloride	<i>6008057</i>	B G007404 Exp: 11/10/2018
Vialing <i>SE 9/27/18</i> Analyst/Date	Hexane	<i>6007622</i>	Vol uL
	Methylene Chloride	<i>6008178</i>	100µL
	Hexane	<i>N/A</i>	Analyst
	Silica Gel (SPE) Darts	<i>N/A</i>	Witness

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).



Extraction Parameter: Sim PNA

Element Batch: BGTJ0518

Work Order(s): 18F0285

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Batch: BGI0618

Prepared using: EPA 3520C (Liq Liq)

8270D-SIM PAH (0.1 ug/L or 5 ug/kg) in Water (Version:Port Gamble)

Prep Instructions	
<p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none">1. Use 500mL Liq/Liq Body2. Add 20-25mL Hexane.3. Add ~200mL DCM to Liq/Liq.4. Add surr/spike.5. Extract minimum 8 hrs.6. KD (no drying column) to 5mL at 80°.7. Exchange (2 X with 20mL) to Hexane at 100°.8. TurboVap.9. Silica Clean-up Opt-Any Color=REQ (All or none).10. TurboVap (if Silica Clean).11. Vial in DCM. <p>Archive: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p>	



PREPARATION BATCH SUMMARY

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc. SDG: 18I0285
Client: Anchor QEA, LLC Project: Port Gamble - OMMP LTM
Batch: BGI0708 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SMA1A-IT-0-10-Comp-180917	18I0285-01	NT818100307.D	09/26/18 15:45	SRM
SMA1-ST-0-10-Comp-180917	18I0285-02	NT818100308.D	09/26/18 15:45	SRM
SMA1-ST-0-10-Comp-180917	18I0285-02RE1	NT818100316.D	09/26/18 15:45	Added 10/3/2018 by JZ
SMA2A-IT-0-10-Comp-180919	18I0285-03	NT818100309.D	09/26/18 15:45	SRM
SMA2A-ST-0-10-Comp-180918	18I0285-04	NT818100312.D	09/26/18 15:45	SRM
SMA2B-IT-0-10-Comp-180918	18I0285-05	NT818100313.D	09/26/18 15:45	SRM
SMA2B-ST-0-10-Comp-180918	18I0285-06	NT818100314.D	09/26/18 15:45	SRM
SMA102B-ST-0-10-Comp-180918	18I0285-37	NT818100315.D	09/26/18 15:45	SRM
Blank	BGI0708-BLK1	NT818100303.D	09/26/18 09:38	
LCS	BGI0708-BS1	NT818100304.D	09/26/18 09:38	
SMA2A-IT-0-10-Comp-180919	BGI0708-MS1	NT818100310.D	09/26/18 09:38	
SMA2A-IT-0-10-Comp-180919	BGI0708-MSD1	NT818100311.D	09/26/18 09:38	
Reference	BGI0708-SRM1	NT818100305.D	09/26/18 15:45	5g + 1g H2O



Batch: BGI0708

Prepared using: EPA 3546 (Microwave)

8270D-SIM PAH (0.1 ug/L or 5 ug/kg) in Solid (Version:Port Gamble)

Matrix: Solid

Date Prepared: 09/26/18

Balance ID: B146462614

Set Up By: CCT 9/26/18

The following standards may be missing from this batch!

Designator	Description
QLS 4	QLS 4

Analysis: 8270D-SIM PAH (0.1 ug/L or 5 ug/kg)

Lab Number & Container	% Solids	Initial (g)		(REQ/Opt) GPC C/U (1:1)			(REQ/Opt) Sulfur C/U (1:1) Y/N (Transfer Rinse)	(REQ/Opt) Silica Gel C/U (1:1) Y/N	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments	
		Target Dry: 10 (Wet)	Actual	1	2	3						
1810285-01 A	79.4	(12.60)	13.08	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	
1810285-02 A	49.3	(20.29)	20.34	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	
1810285-03 A	83.6	(11.96)	12.10	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	
1810285-04 A	76.5	(13.07)	13.10	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	
1810285-05 A	79.6	(12.57)	13.02	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	
1810285-06 A	78.0	(12.82)	13.01	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	
1810285-37 A	82.0	(12.20)	12.39	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	

Batch QC

Lab Number	% Solids	Initial (g)		(REQ/Opt) GPC C/U (1:1)			(REQ/Opt) Sulfur C/U (1:1) Y/N (Transfer Rinse)	(REQ/Opt) Silica Gel C/U (1:1) Y/N	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments	
		Target Dry: 10 (Wet)	Actual	1	2	3						
BGI0708-BLK1	100.0	(10.00)	10.00	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	
BGI0708-BS1	100.0	(10.00)	10.00	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	
BGI0708-MS1	83.6	(11.96)	12.02	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	Use 1810285-03
BGI0708-MSD1	83.6	(11.96)	12.09	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	Use 1810285-03
BGI0708-SRM1	100.0	(10.00)	5.00	(1:1)	Y	N	(1:1)	Y	N	0.5	0.5	Use F011861

5g + 1g H2O

Client ID verified By: 09/26/18

Date

Preparation Reviewed By: SE 10/3/18

Date

Extraction Date and Time: 09/26/18 15:45



Batch: BGI0708

Prepared using: EPA 3546 (Microwave)
8270D-SIM PAH (0.1 ug/L or 5 ug/kg) in Solid (Version:Port Gamble)

Prep Steps	Reagents Used	Surrogates & Spike Standards Used															
Microwave 1 2 3 Analyst/Date: <i>ve 9/26/18</i>	Station/Reagent Microwave Analyst: <i>ve</i> Date: <i>9/26/18</i> 1:1 Methylene Chloride/Acetone Methylene Chloride Anhydrous Sodium Sulfate Pre-Deactivated Glass Wool Pre GPC KD Analyst: _____ Date: _____	<table border="1"> <thead> <tr> <th>Type</th> <th>Standard ID</th> <th>Vol uL</th> <th>Analyst</th> <th>Witness</th> </tr> </thead> <tbody> <tr> <td>Surrogate</td> <td>B G007404 Exp: 11/10/2018</td> <td>100µL</td> <td><i>G</i></td> <td><i>ve</i></td> </tr> <tr> <td>Spike</td> <td>15 G007405 Exp: 11/10/2018</td> <td>200µL</td> <td><i>G</i></td> <td><i>ve</i></td> </tr> </tbody> </table>	Type	Standard ID	Vol uL	Analyst	Witness	Surrogate	B G007404 Exp: 11/10/2018	100µL	<i>G</i>	<i>ve</i>	Spike	15 G007405 Exp: 11/10/2018	200µL	<i>G</i>	<i>ve</i>
Type	Standard ID	Vol uL	Analyst	Witness													
Surrogate	B G007404 Exp: 11/10/2018	100µL	<i>G</i>	<i>ve</i>													
Spike	15 G007405 Exp: 11/10/2018	200µL	<i>G</i>	<i>ve</i>													
Pre-GPC KD 100°C (No Exchange) 1 2 3 4 5 6 Analyst/Date: _____	Methylene Chloride Anhydrous Sodium Sulfate Pre-Deactivated Glass Wool Pre GPC KD Analyst: _____ Date: _____	(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards. If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).															
Pre GPC TurboVap 1 2 3 4 Analyst/Date: _____	Methylene Chloride Hexane GPC Filter Prep Analyst: <i>N/A</i> Date: <i>A</i>																
Post-GPC KD 80°C Hexane Exchange 2 x 20 ml 100°C 1 2 3 4 5 6 Analyst/Date: <i>MM 10/2/18</i>	Methylene Chloride GPC Analyst: _____ Date: _____ Methylene Chloride GPC Calibration File Post-GPC KD Analyst: <i>MM</i> Date: <i>10/2/18</i> Hexane Methylene Chloride Vialing Analyst: <i>mm</i> Date: <i>10/2/18</i>																
Pre-Cleanup TurboVap 1 2 3 4 Analyst/Date: <i>mm 10/2/18</i>	Hexane Methylene Chloride Vialing Analyst: <i>mm</i> Date: <i>10/2/18</i>																
Post-Cleanup TurboVap 1 2 3 4 Analyst/Date: <i>se 10/3/18</i>	Silica Gel (SPE) darts Methylene Chloride Hexane Tetrabutylammonium hydrogensulfate (TBAS) Sodium Sulfite	G-007900 G-008178 G-008434 G-008263 G-005474															
Vialing Analyst/Date: <i>se 10/3/18</i>																	



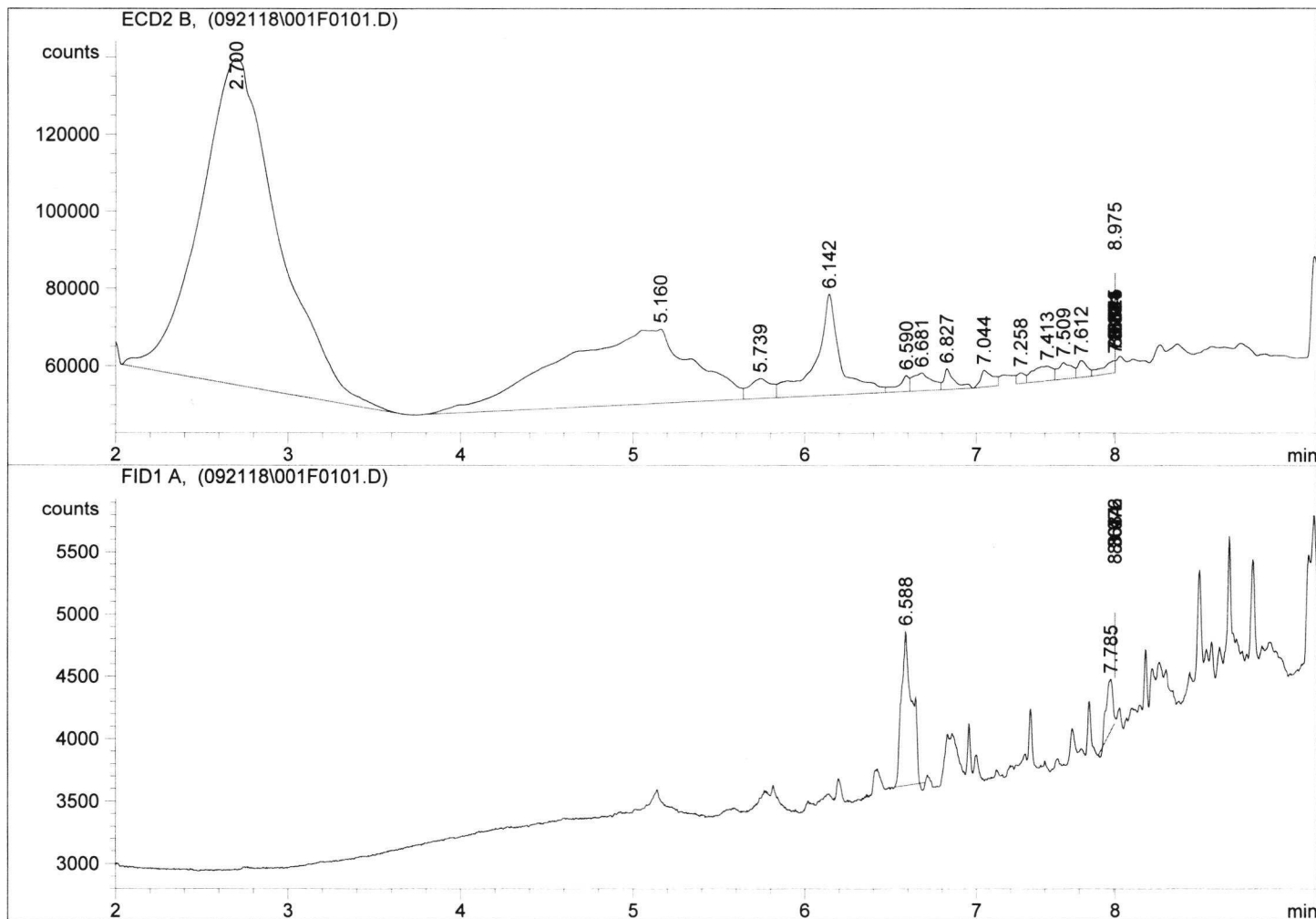
Extraction Parameter: Sim PMA

Element Batch: BGI 0708 Work Order(s): 18I0285

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>φ4, φ6, 37</u>	<u>ME φ9/21/18</u>
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input checked="" type="checkbox"/> Standing Water Homogenized (Shared samples)= <u>φ1, φ2, φ3, φ4, φ5, φ6, 37</u>	<u>ME φ9/21/18</u>
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? <u>30% = φ3, 40% = φ5</u>	<u>ME φ9/21/18</u>
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= <u>sulfur odor = φ1, φ2</u>	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y/N <u>φ1-φ6, 37</u>	<u>ME φ9/21/18</u>
<input checked="" type="checkbox"/> Multiple Jars Y/N <u>(N)</u>	<u>ME φ9/21/18</u>
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

=====
Injection Date : 9/21/2018 5:47:36 PM Seq. Line : 1
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\092118.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 4/2/2018 1:29:10 PM by ww
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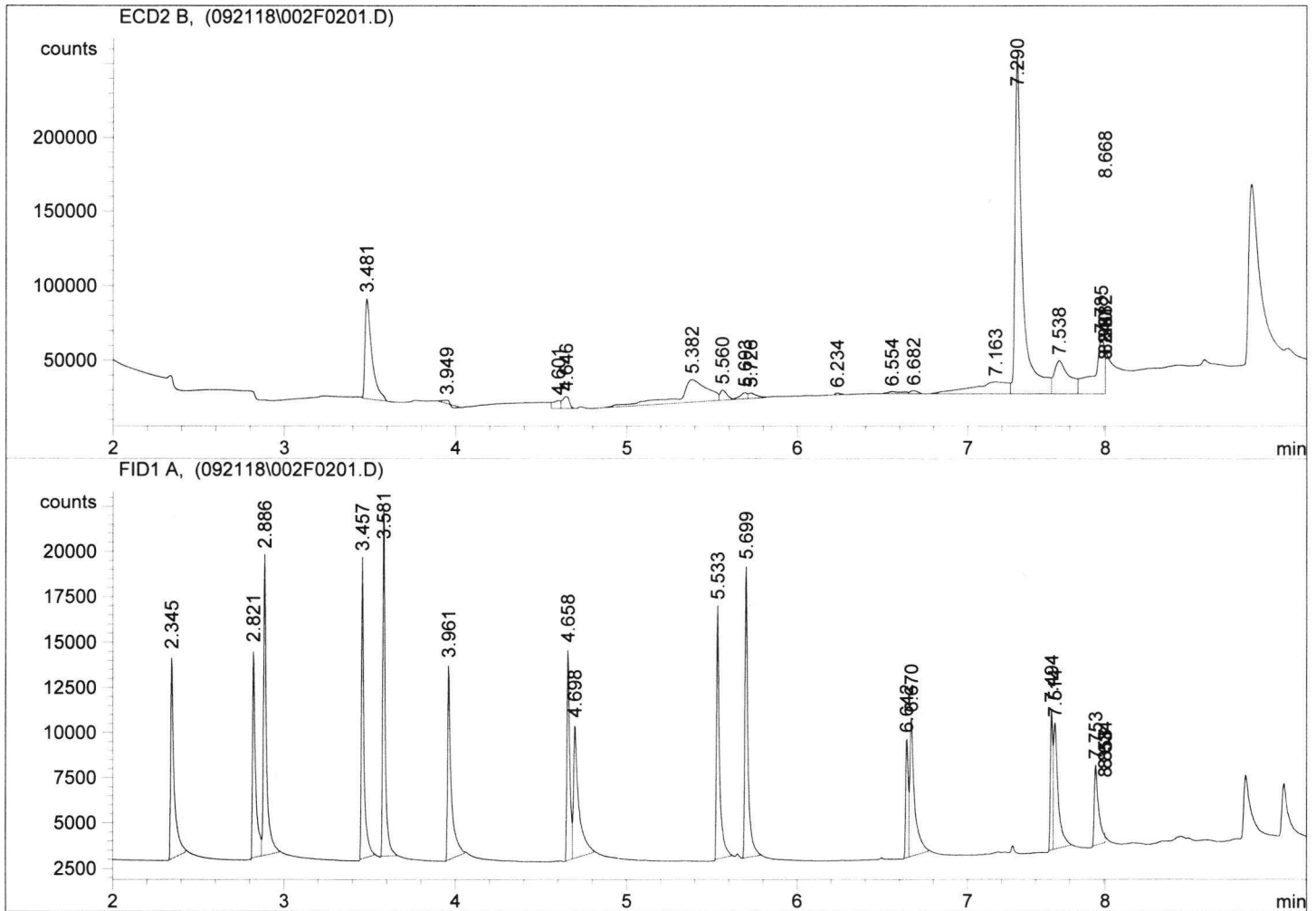


*** End of Report ***

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=====
Injection Date   : 9/21/2018 6:01:09 PM      Seq. Line :    2
Sample Name     : PNA STD 10PPM             Location  : Vial 2
Acq. Operator   : YL                       Inj       :    1
                                           Inj Volume: 1 µl

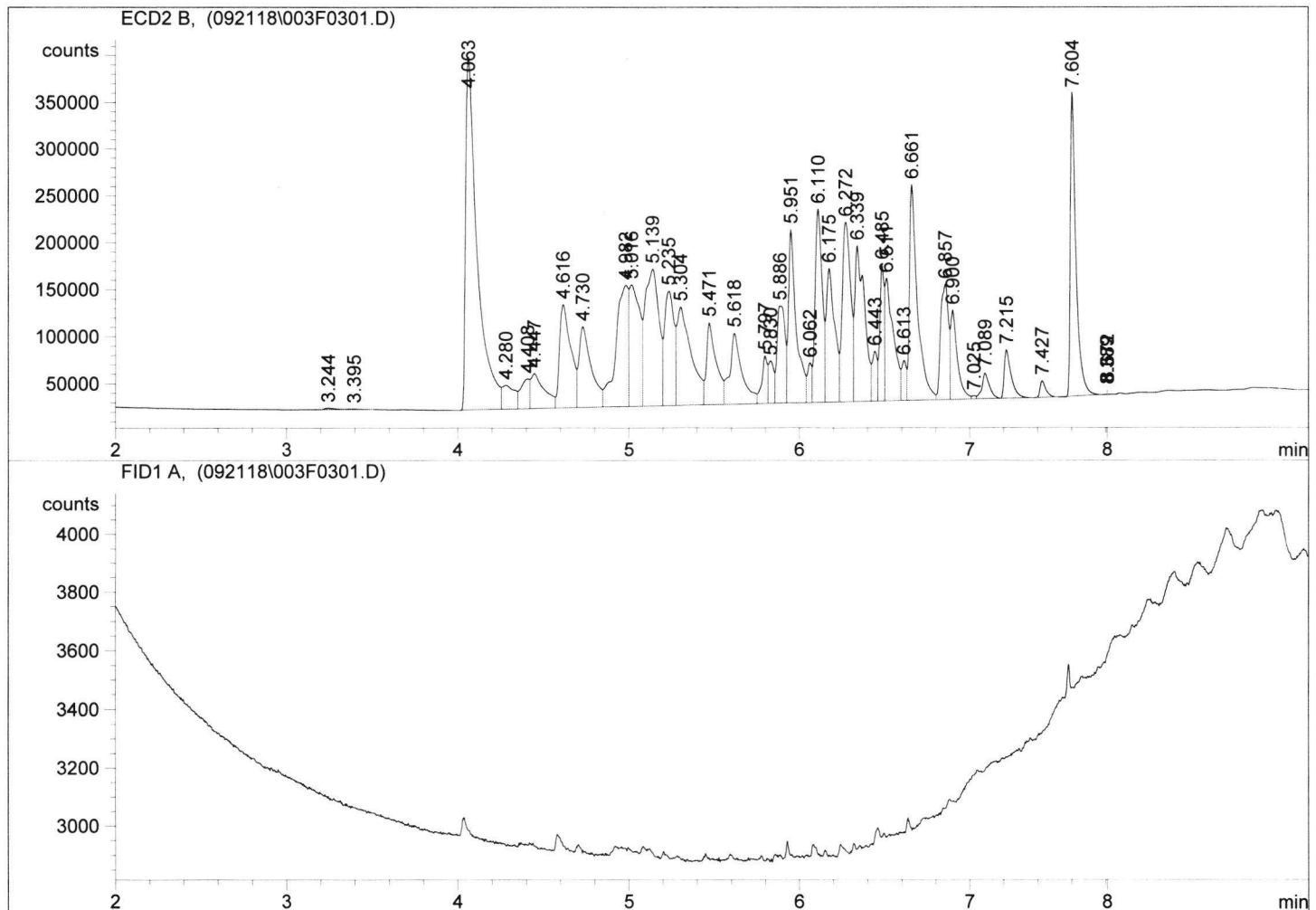
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Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 4/2/2018 1:29:10 PM by ww
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*** End of Report ***

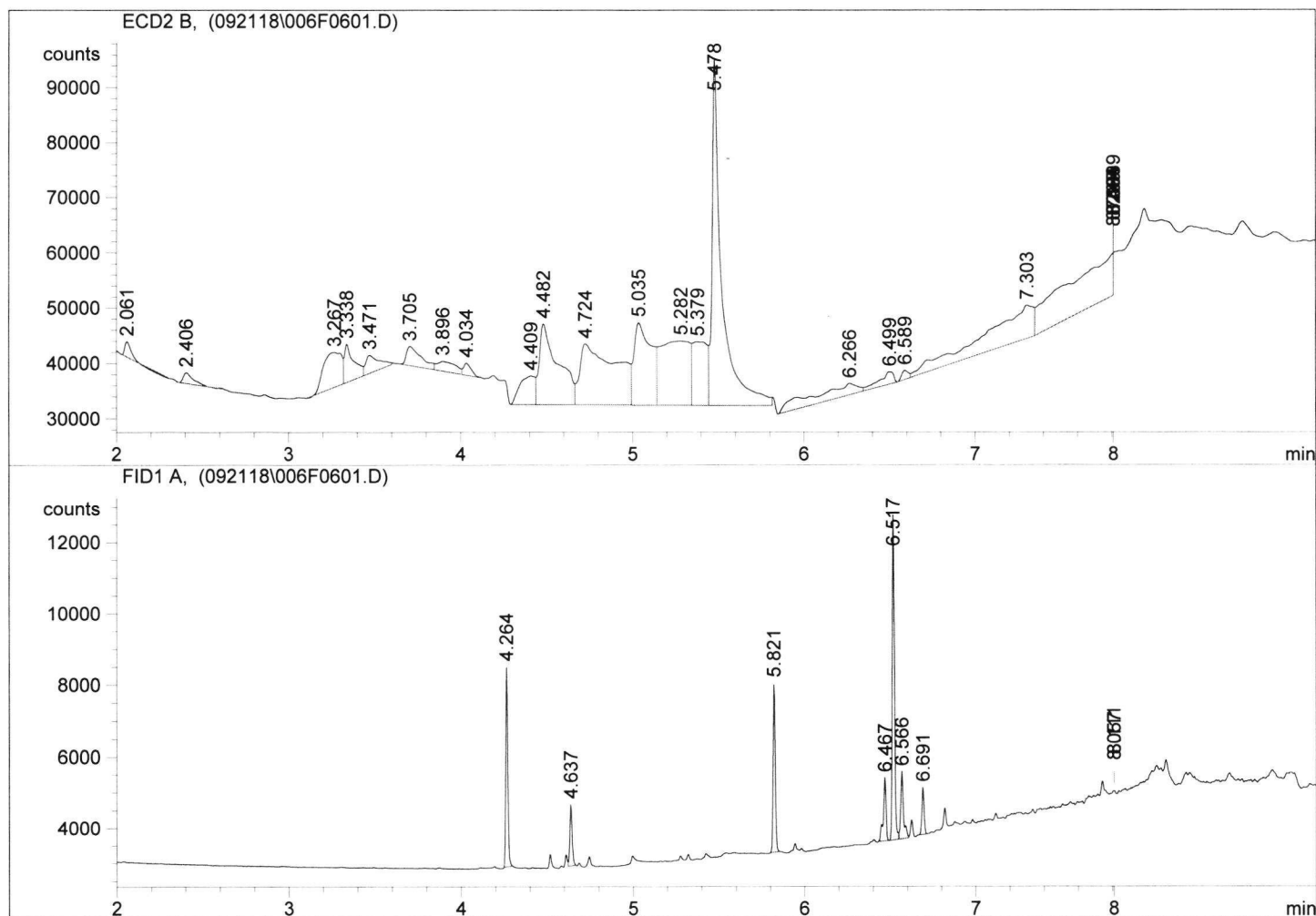
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Injection Date : 9/21/2018 6:14:45 PM Seq. Line : 3
Sample Name : AR1660 1PPM Location : Vial 3
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\092118.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 4/2/2018 1:29:10 PM by ww
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*** End of Report ***

=====
Injection Date : 9/21/2018 6:55:51 PM Seq. Line : 6
Sample Name : 18I0285 01 Location : Vial 6
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\092118.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 4/2/2018 1:29:10 PM by ww
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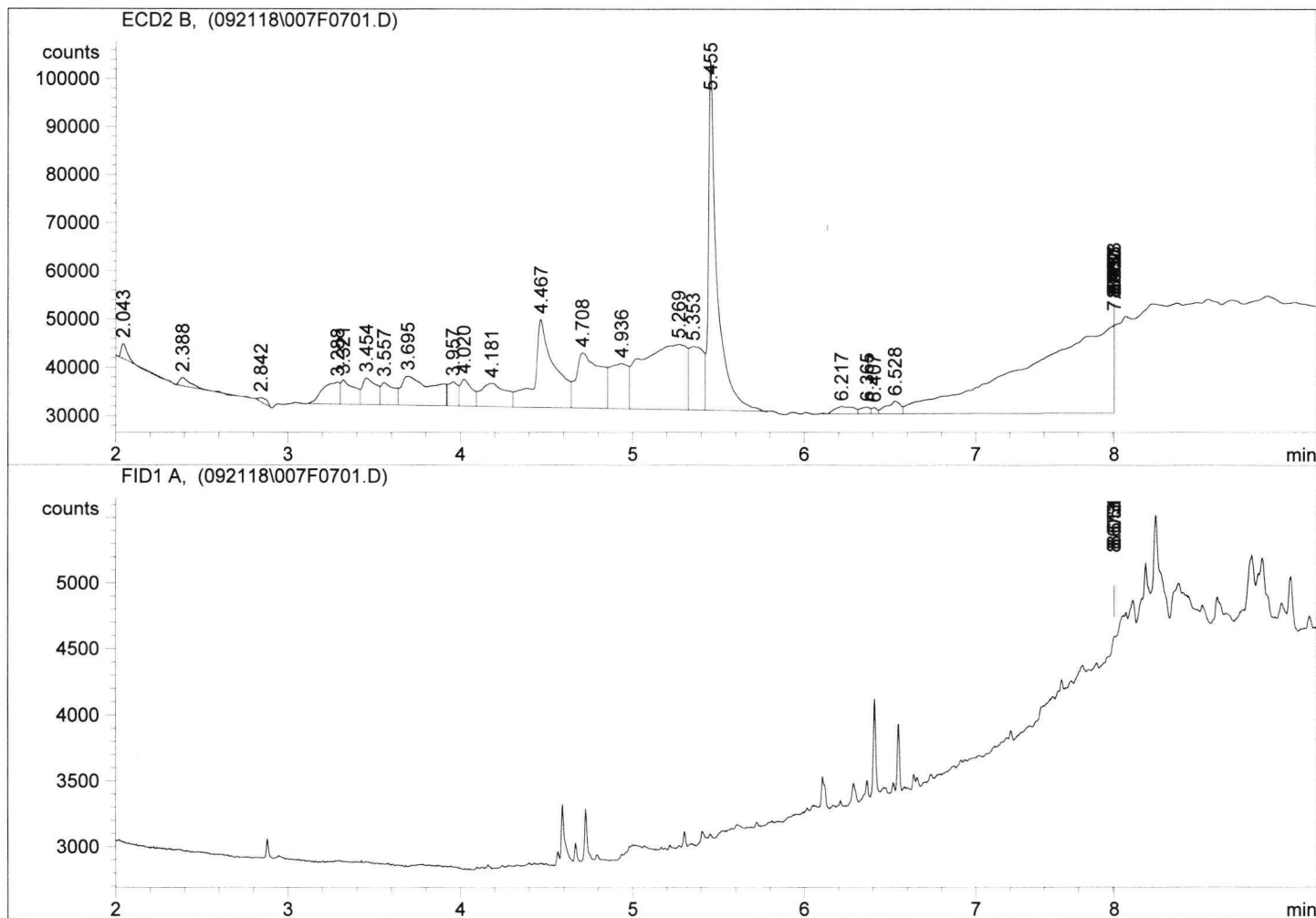


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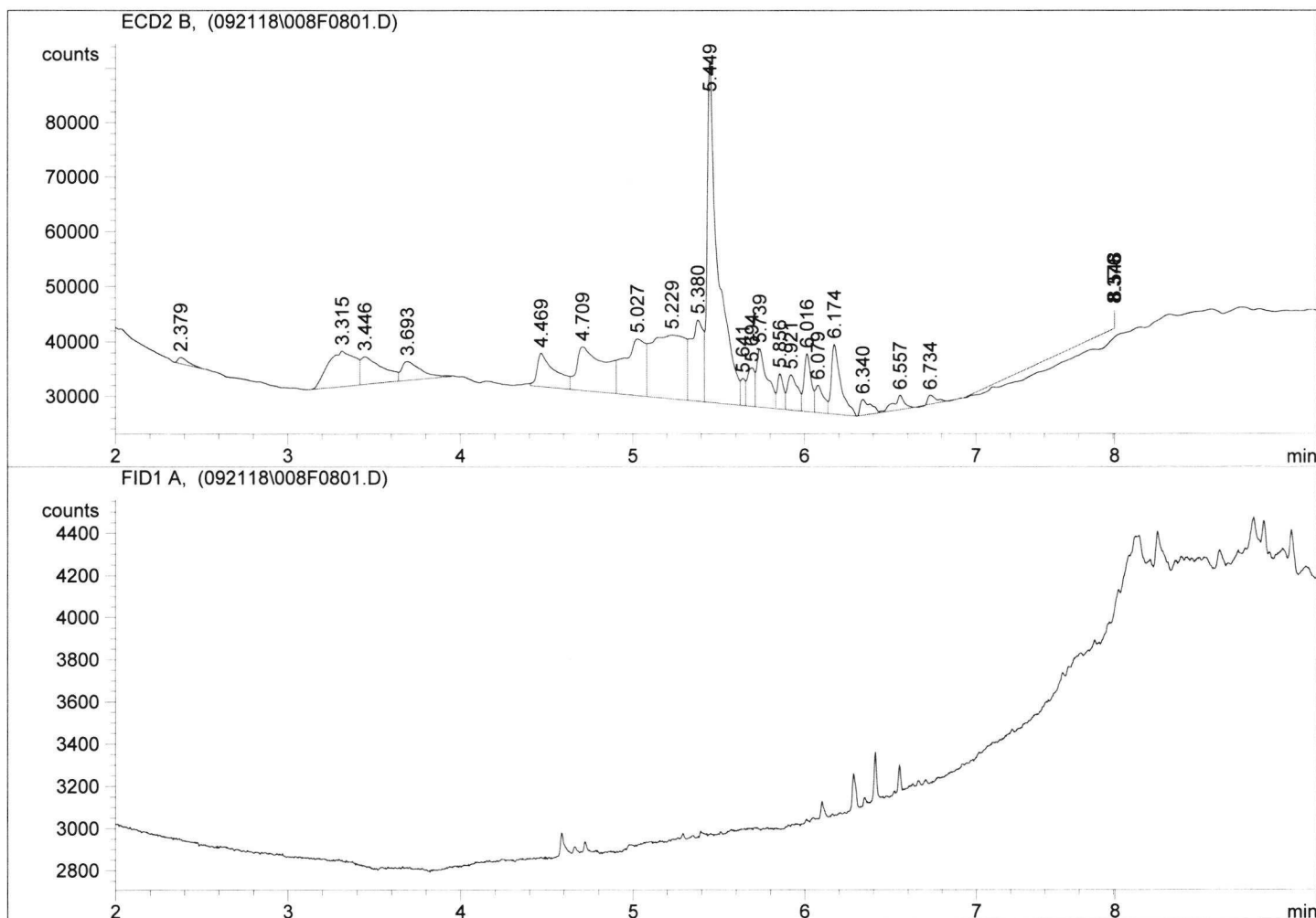
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Injection Date : 9/21/2018 7:09:29 PM      Seq. Line : 7
Sample Name    : 18I0285 02                Location  : Vial 7
Acq. Operator  : YL                        Inj      : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\1\SEQUENCE\092118.S
Method        : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 4/2/2018 1:29:10 PM by ww
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*** End of Report ***

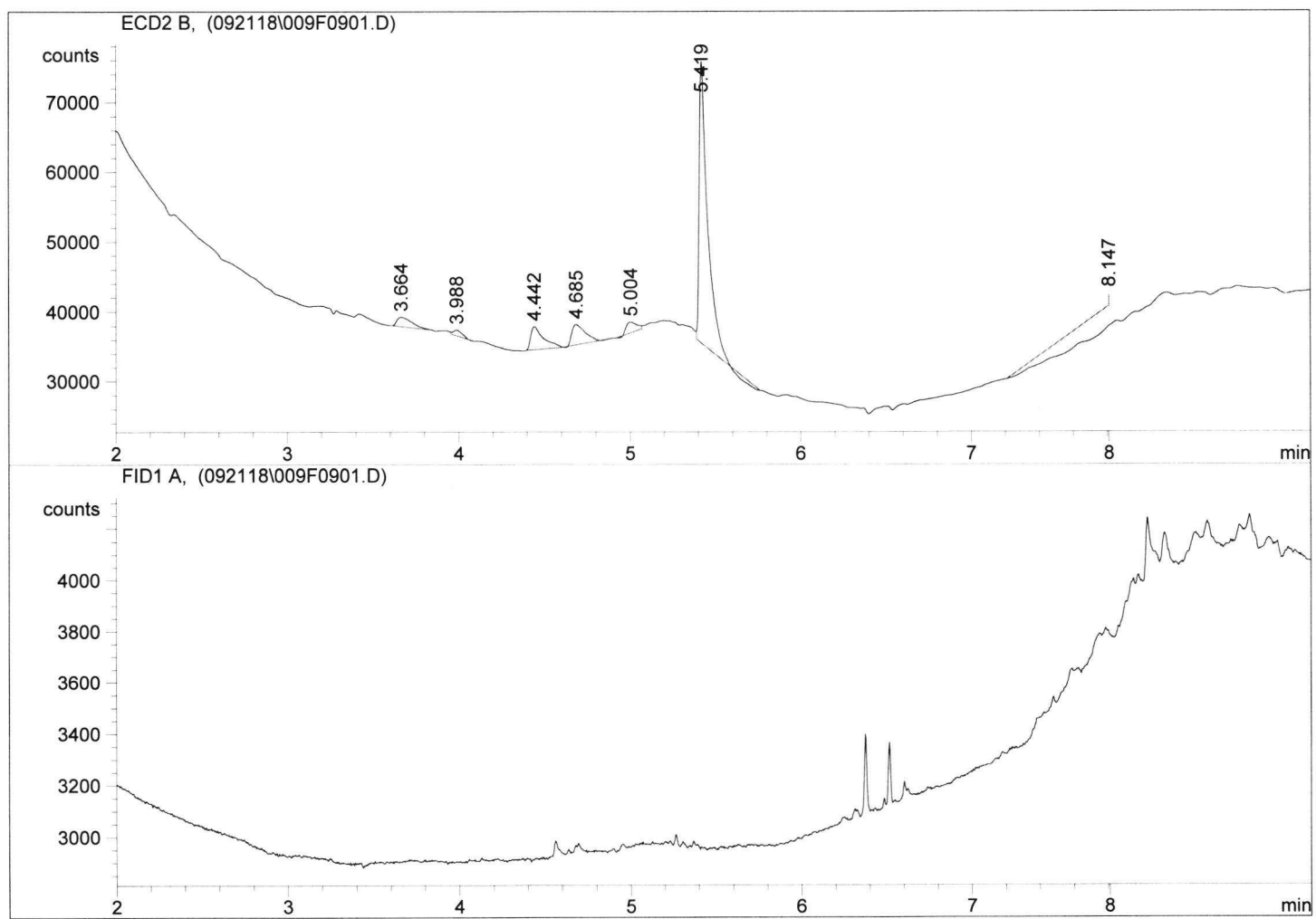
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Injection Date : 9/21/2018 7:23:07 PM Seq. Line : 8
Sample Name : 18I0285 03 Location : Vial 8
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\092118.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
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*** End of Report ***

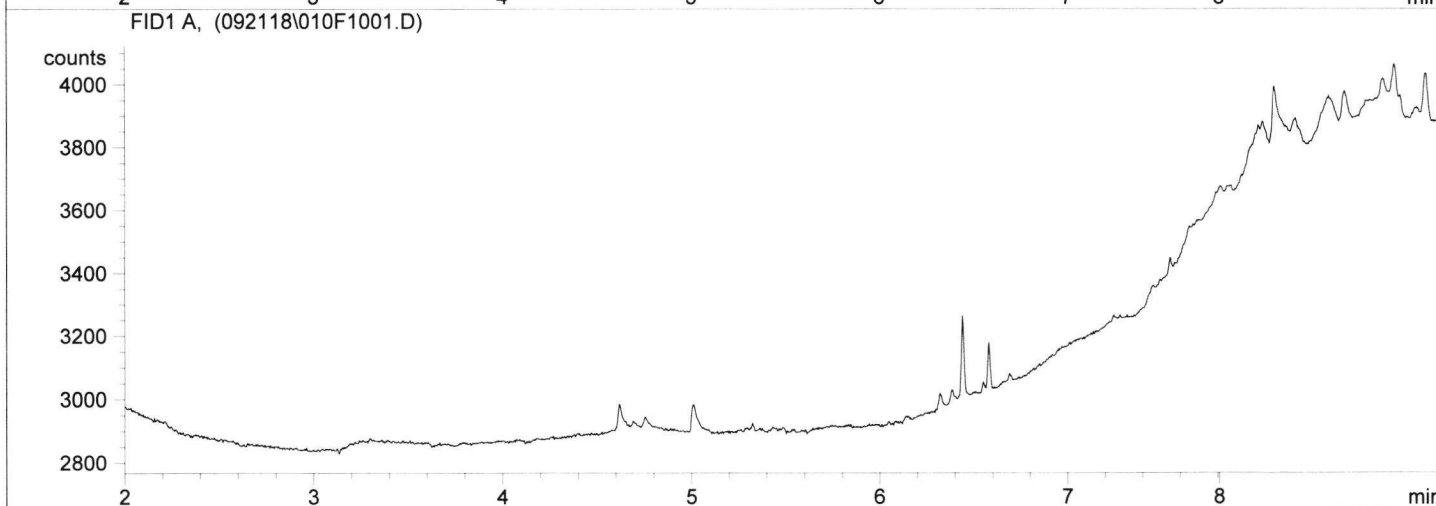
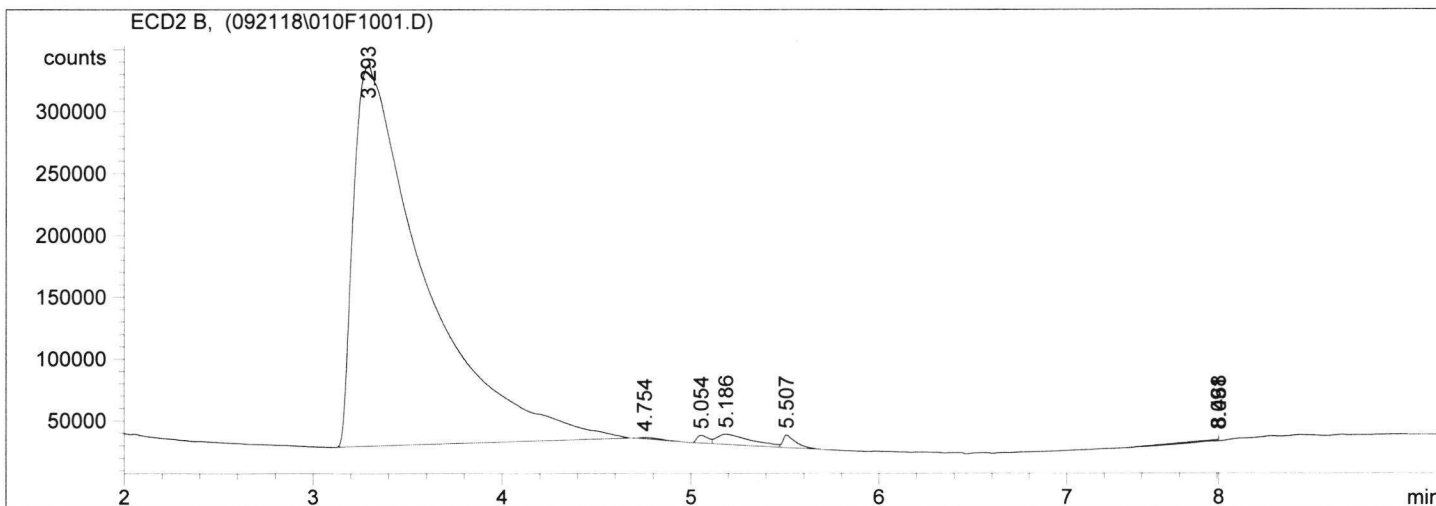
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Injection Date : 9/21/2018 7:36:50 PM Seq. Line : 9
Sample Name : 18I0285 04 Location : Vial 9
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\092118.S
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Last changed : 4/2/2018 1:29:10 PM by ww
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*** End of Report ***

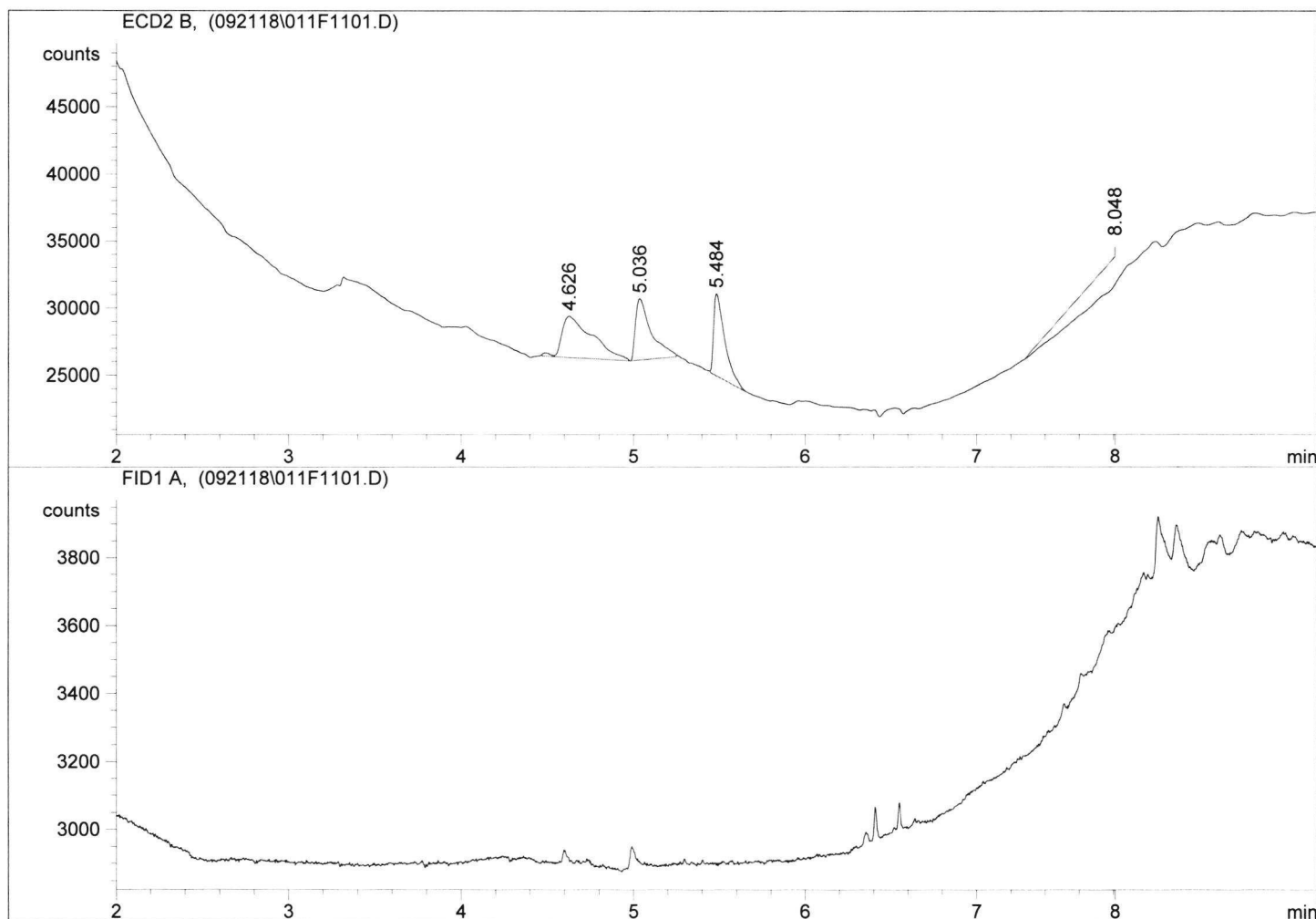
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Injection Date : 9/21/2018 7:50:22 PM Seq. Line : 10
Sample Name : 18I0285 05 Location : Vial 10
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\092118.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 4/2/2018 1:29:10 PM by ww
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*** End of Report ***

=====
Injection Date : 9/21/2018 8:04:02 PM Seq. Line : 11
Sample Name : 18I0285 06 Location : Vial 11
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

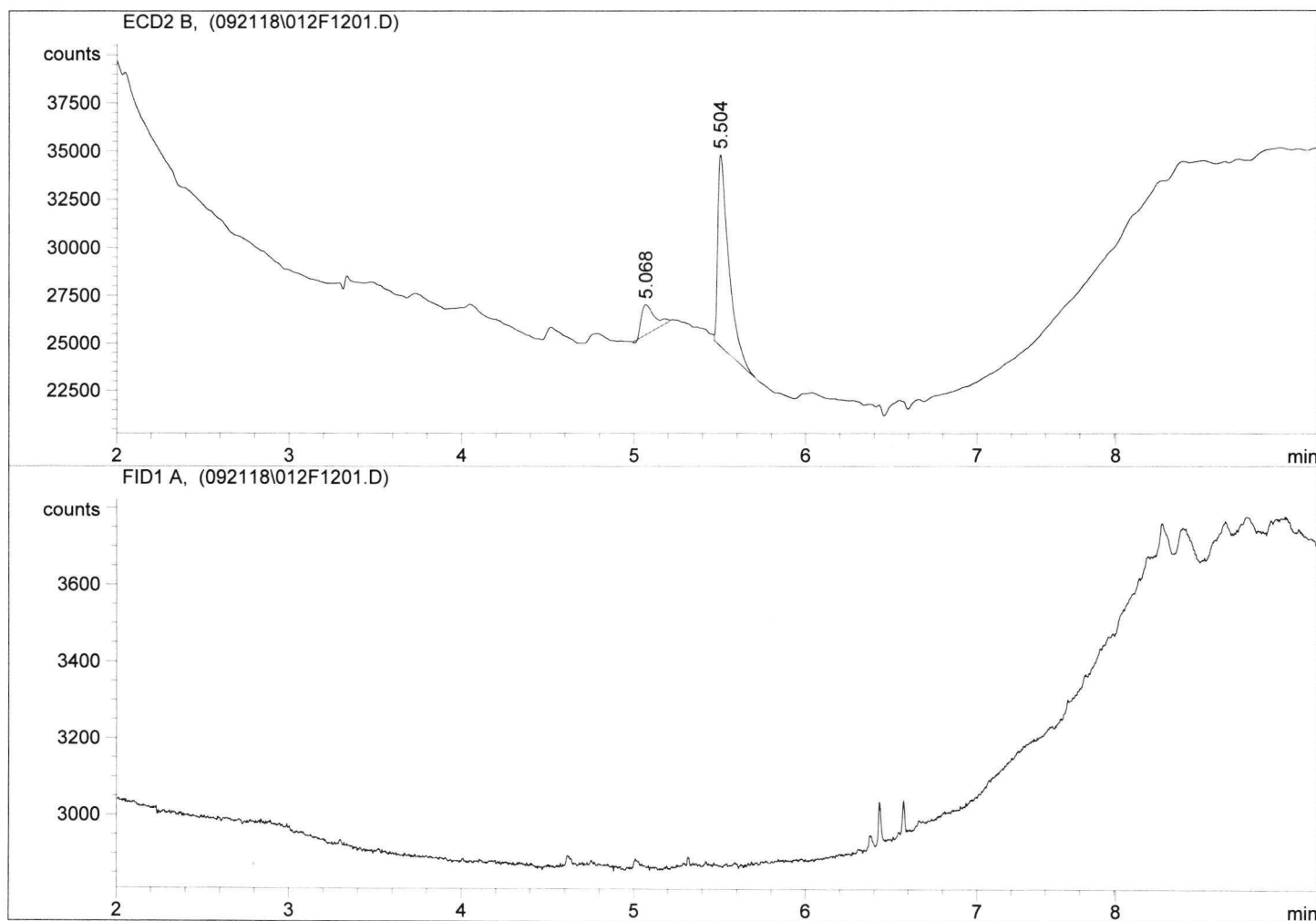
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*** End of Report ***

=====
Injection Date : 9/21/2018 8:17:51 PM Seq. Line : 12
Sample Name : 18I0285 37 Location : Vial 12
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\092118.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 4/2/2018 1:29:10 PM by ww
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*** End of Report ***



Batch: BGI0708

Prepared using: EPA 3546 (Microwave)

8270D-SIM PAH (0.1 ug/L or 5 ug/kg) in Solid (Version:Port Gamble)

Prep Instructions	
<p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none">1. Weigh into beakers-lightly dry with Sodium Sulfate.2. Transfer to microwave vessel.3. Add DCM ONLY to the vessels (until solvent is 3 inches above soil layer after homogenization).4. Add surr/spike.5. Microwave on appropriate power setting determined by # of samples.6. After microwave-re-homogenize while hot then let cool 10-15 min in Refridgerator 05. Re-homogenize while cool.7. Decant DCM into Erlenmeyer flask with a funnel containing pre-deactivated glasswool.8. Rinse with DCM9. Microwave a 2nd time using 1:1 DCM/ACE.10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM.11. If GPC is Req add 10mL Hexane and KD to 5mL at 100°C (NO EXCHANGE)12. If GPC is NOT Req = KD to 5mL at 100°C. Exchange to Hexane (2X with 10mL) to 5mL at 100°C.13. TurboVap.14. Sulfur clean = Hexane transfer rinse.15. Silica Clean-up Any Color=REQ (All or none).16. TurboVap17. Vial in DCM. <p>A. Need Total Solids Y / <input type="checkbox"/> N</p> <p>B. Archive/Freeze Y <input type="checkbox"/> N</p>	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Cleanup Batch: CGJ0022

Cleanup Type: Sulfur

Cleanup Method: EPA 3660B Sulfur Cleanup

Analysis: EPA 8270D-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
SMA2B-ST-0-10-Comp-180918	18I0285-06	NT818100314.D	10/02/2018	
SMA2B-IT-0-10-Comp-180918	18I0285-05	NT818100313.D	10/02/2018	
SMA2A-ST-0-10-Comp-180918	18I0285-04	NT818100312.D	10/02/2018	
SMA2A-IT-0-10-Comp-180919	18I0285-03	NT818100309.D	10/02/2018	
SMA1-ST-0-10-Comp-180917	18I0285-02	NT818100308.D	10/02/2018	
SMA1A-IT-0-10-Comp-180917	18I0285-01	NT818100307.D	10/02/2018	
SMA102B-ST-0-10-Comp-180918	18I0285-37	NT818100315.D	10/02/2018	



CLEANUP BENCH SHEET

CGJ0022

Printed: 10/3/2018 11:11:53AM

Cleanup using: Organics - EPA 3660B Sulfur Cleanup

Matrix: Solid

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
1810285-37	A	SMA102B-ST-0-10-Comp-180918	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-06	A	SMA2B-ST-0-10-Comp-180918	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-02	A	SMA1-ST-0-10-Comp-180917	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-03	A	SMA2A-TT-0-10-Comp-180919	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-04	A	SMA2A-ST-0-10-Comp-180918	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-05	A	SMA2B-TT-0-10-Comp-180918	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-01	A	SMA1A-TT-0-10-Comp-180917	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
BGI0708-SRM1	-	Reference	-	0.5	0.5	-	10/2/2018	WPW	
BGI0708-MSD1	-	Matrix Spike Dup	-	0.5	0.5	-	10/2/2018	WPW	
BGI0708-MS1	-	Matrix Spike	-	0.5	0.5	-	10/2/2018	WPW	
BGI0708-BS1	-	LCS	-	0.5	0.5	-	10/2/2018	WPW	
BGI0708-BLK1	-	Blank	-	0.5	0.5	-	10/2/2018	WPW	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Cleanup Batch: CGJ0023

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup

Analysis: EPA 8270D-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
SMA2A-IT-0-10-Comp-180919	18I0285-03	NT818100309.D	10/02/2018	
SMA102B-ST-0-10-Comp-180918	18I0285-37	NT818100315.D	10/02/2018	
SMA1A-IT-0-10-Comp-180917	18I0285-01	NT818100307.D	10/02/2018	
SMA1-ST-0-10-Comp-180917	18I0285-02	NT818100308.D	10/02/2018	
SMA2A-ST-0-10-Comp-180918	18I0285-04	NT818100312.D	10/02/2018	
SMA2B-ST-0-10-Comp-180918	18I0285-06	NT818100314.D	10/02/2018	
SMA2B-IT-0-10-Comp-180918	18I0285-05	NT818100313.D	10/02/2018	



CLEANUP BENCH SHEET

CGJ0023

Printed: 10/3/2018 11:13:01AM

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup

Matrix: Solid

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
1810285-37	A	SMA102B-ST-0-10-Comp-180918	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-06	A	SMA2B-ST-0-10-Comp-180918	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-02	A	SMA1-ST-0-10-Comp-180917	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-03	A	SMA2A-TT-0-10-Comp-180919	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-04	A	SMA2A-ST-0-10-Comp-180918	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-05	A	SMA2B-TT-0-10-Comp-180918	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
1810285-01	A	SMA1A-TT-0-10-Comp-180917	A 01	0.5	0.5	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	10/2/2018	WPW	
BGI0708-SRM1	-	Reference	-	0.5	0.5	-	10/2/2018	WPW	
BGI0708-MSD1	-	Matrix Spike Dup	-	0.5	0.5	-	10/2/2018	WPW	
BGI0708-MS1	-	Matrix Spike	-	0.5	0.5	-	10/2/2018	WPW	
BGI0708-BS1	-	LCS	-	0.5	0.5	-	10/2/2018	WPW	
BGI0708-BLK1	-	Blank	-	0.5	0.5	-	10/2/2018	WPW	



Form I
METHOD BLANK DATA SHEET
EPA 8270D-SIM

Blank

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>BGI0618-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>09/24/18 19:10</u>
Solids:		Preparation:	<u>EPA 3520C (Liq Liq)</u>
Batch:	<u>BGI0618</u>	Sequence:	<u>SGI0437</u>
Instrument:	<u>NT8</u>	Column:	<u>RXI-17Sil ms</u>
		File ID:	<u>NT818092703.D</u>
		Analyzed:	<u>09/27/18 13:09</u>
		Initial/Final:	<u>500 mL / 0.5 mL</u>
		Calibration:	<u>BH00016</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	RL
91-20-3	Naphthalene	1	0.07	J	0.02	0.10
91-57-6	2-Methylnaphthalene	1	0.10	U	0.03	0.10
90-12-0	1-Methylnaphthalene	1	0.10	U	0.02	0.10
208-96-8	Acenaphthylene	1	0.10	U	0.02	0.10
83-32-9	Acenaphthene	1	0.10	U	0.02	0.10
86-73-7	Fluorene	1	0.10	U	0.02	0.10
85-01-8	Phenanthrene	1	0.10	U	0.02	0.10
120-12-7	Anthracene	1	0.10	U	0.02	0.10
206-44-0	Fluoranthene	1	0.10	U	0.02	0.10
129-00-0	Pyrene	1	0.10	U	0.03	0.10
56-55-3	Benzo(a)anthracene	1	0.10	U	0.05	0.10
218-01-9	Chrysene	1	0.10	U	0.06	0.10
205-99-2	Benzo(b)fluoranthene	1	0.10	U	0.09	0.10
207-08-9	Benzo(k)fluoranthene	1	0.10	U	0.09	0.10
205-82-3	Benzo(j)fluoranthene	1	0.10	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.10	U	0.06	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.10	U	0.08	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.10	U	0.09	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.10	U	0.07	0.10
	Benzo(a)fluoranthenes, Total	1	0.20	U	0.19	0.20

SURROGATES	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	3.0000	1.65	54.9	31 - 120	
Dibenzo[a,h]anthracene-d14	3.0000	3.01	100	10 - 125	
Fluoranthene-d10	3.0000	2.33	77.7	46 - 121	

Data File: \\target\share\chem3\nt8.1\20180927.b\NT818092703.D

Date: 27-SEP-2018 13:09

Client ID:

Sample Info: BQ10618-BLK1,

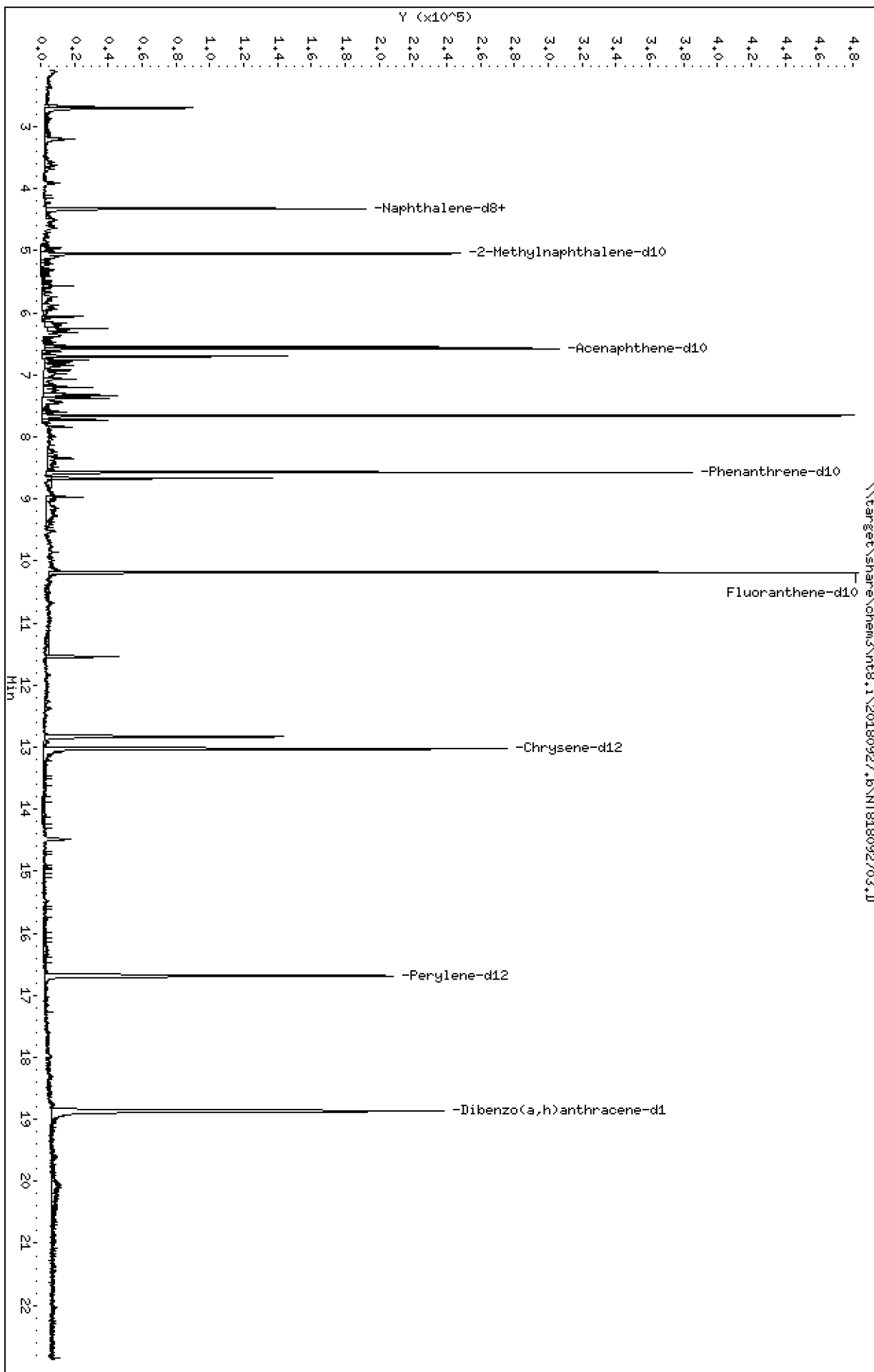
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 27-SEP-2018 13:09

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BLK1,

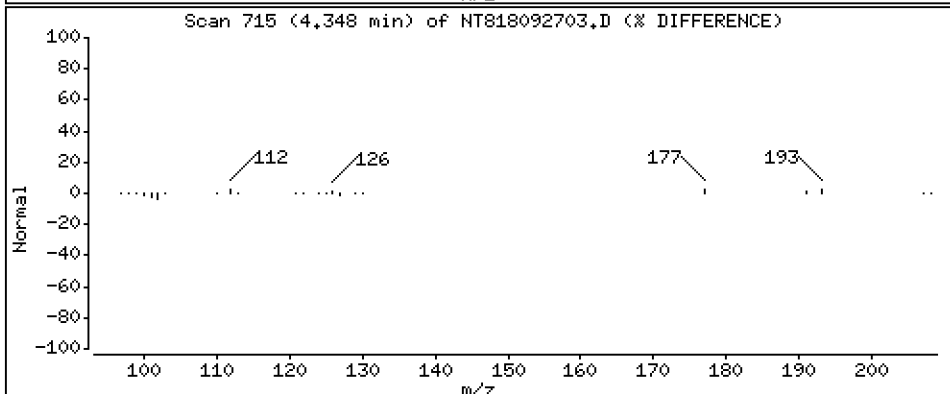
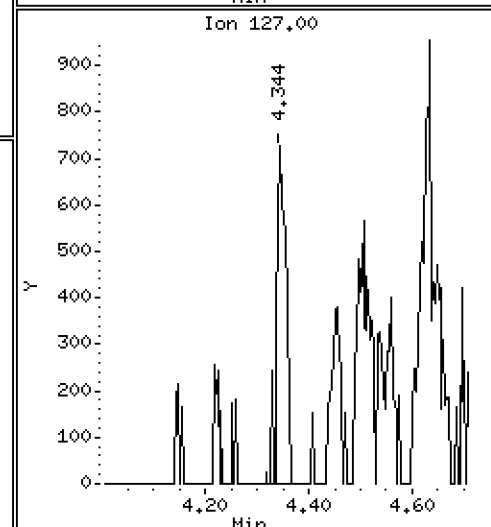
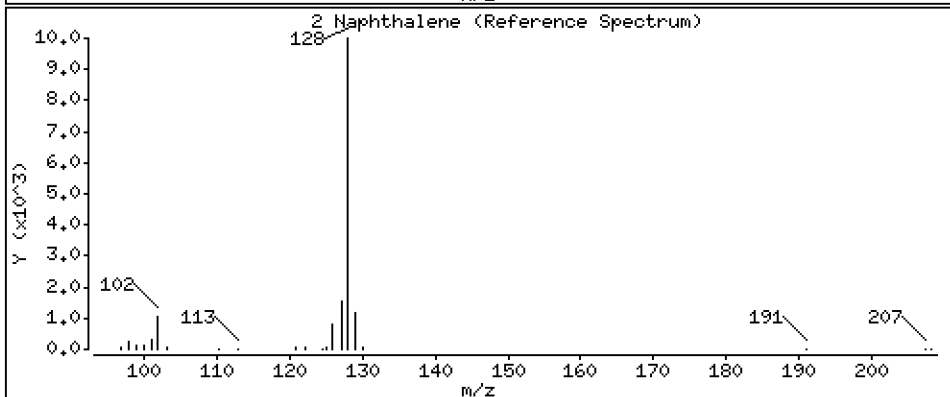
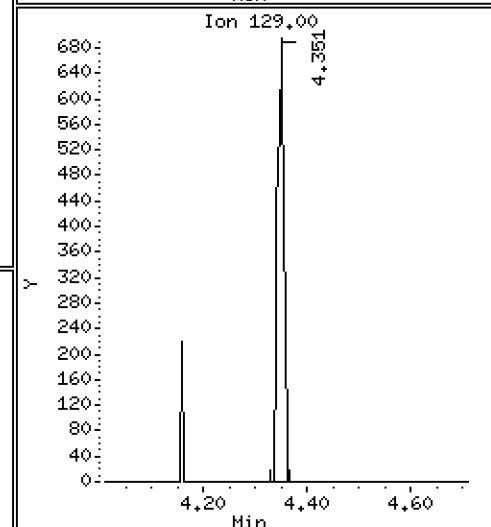
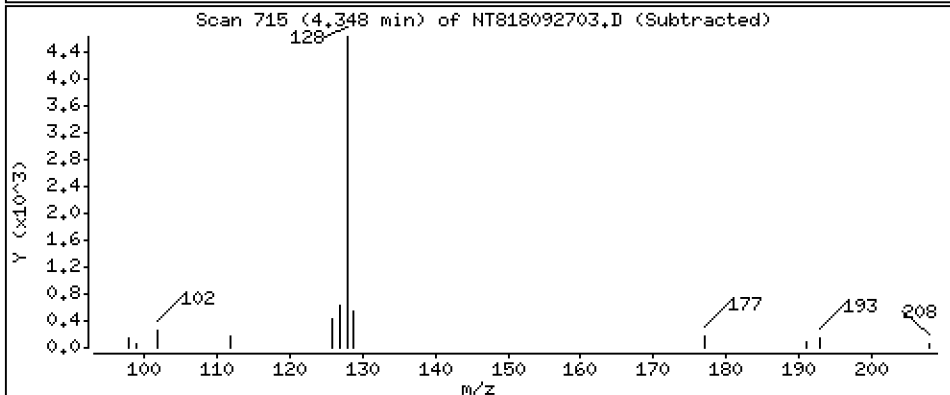
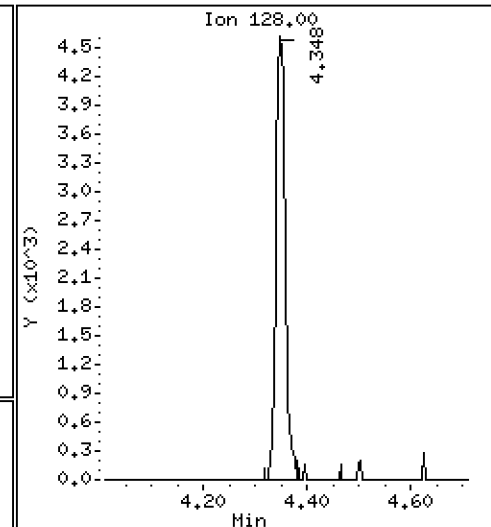
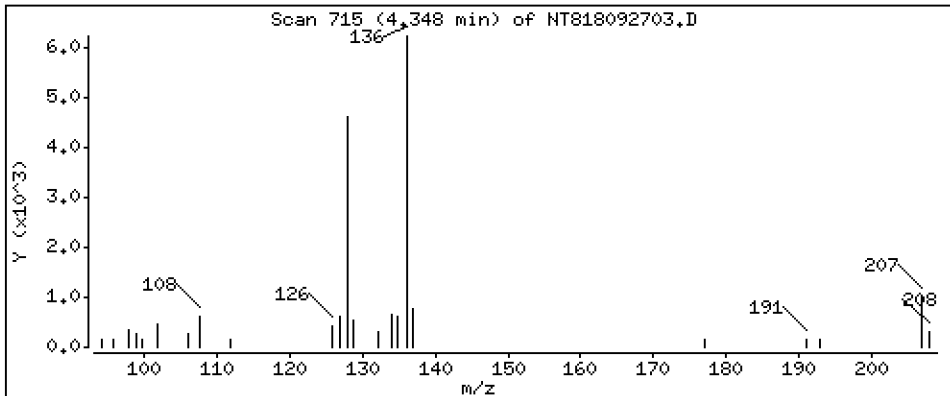
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 0.06690 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180927.b\NT818092703.D
 Lab Smp Id: BGI0618-BLK1
 Inj Date : 27-SEP-2018 13:09
 Operator : JZ Inst ID: nt8.i
 Smp Info : BGI0618-BLK1,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Meth Date : 27-Sep-2018 14:12 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.319	4.331	(1.000)	156625	2.00000	
2 Naphthalene	128		4.347	4.360	(1.007)	5711	0.06690	0.06690
\$ 3 2-Methylnaphthalene-d10	152		5.043	5.052	(1.168)	91211	1.64669	1.647
4 2-Methylnaphthalene	141		Compound Not Detected.					
5 1-methylnaphthalene	141		Compound Not Detected.					
9 Acenaphthylene	152		Compound Not Detected.					
* 10 Acenaphthene-d10	164		6.573	6.576	(1.000)	83516	2.00000	
11 Acenaphthene	153		Compound Not Detected.					
12 Dibenzofuran	168		Compound Not Detected.					
14 Fluorene	166		Compound Not Detected.					
* 15 Phenanthrene-d10	188		8.571	8.575	(1.000)	164302	2.00000	
16 Phenanthrene	178		Compound Not Detected.					
17 Anthracene	178		Compound Not Detected.					
22 Fluoranthene	202		Compound Not Detected.					
\$ 21 Fluoranthene-d10	212		10.184	10.187	(1.188)	241844	2.33074	2.331
23 Pyrene	202		Compound Not Detected.					
24 Benzo(a)anthracene	228		Compound Not Detected.					
* 25 Chrysene-d12	240		13.027	13.027	(1.000)	177988	2.00000	
27 Chrysene	228		Compound Not Detected.					
28 Benzo(b)fluoranthene	252		Compound Not Detected.					
29 Benzo(k)fluoranthene	252		Compound Not Detected.					
30 Benzo(j)fluoranthene	252		Compound Not Detected.					
31 Total Benzofluoranthenes	252		Compound Not Detected.					
32 Benzo(a)pyrene	252		Compound Not Detected.					
* 33 Perylene-d12	264		16.685	16.695	(1.000)	164634	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		Compound Not Detected.					
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.867	18.873	(1.131)	222326	3.01029	3.010
38 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
39 Benzo(g,h,i)perylene	276		Compound Not Detected.					
35 Perylene	252		Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 27-SEP-2018
 Lab File ID: NT818092703.D Calibration Time: 10:58
 Lab Smp Id: BGI0618-BLK1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	156625	18.77
10 Acenaphthene-d10	72272	36136	144544	83516	15.56
15 Phenanthrene-d10	156058	78029	312116	164302	5.28
25 Chrysene-d12	174389	87195	348778	177988	2.06
33 Perylene-d12	150701	75351	301402	164634	9.25

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.33	3.83	4.83	4.32	-0.30
10 Acenaphthene-d10	6.58	6.08	7.08	6.57	-0.05
15 Phenanthrene-d10	8.58	8.08	9.08	8.57	-0.04
25 Chrysene-d12	13.03	12.53	13.53	13.03	-0.00
33 Perylene-d12	16.70	16.20	17.20	16.69	-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.

cgal: //target/share/chem3/nt8.i/20180927.b/NT818092702.D
REVIEW SUMMARY FOR FILE - NT818092703.D

Lab ID: BGI0618-BLK1
nt8.i, 20180927.b\FSIMPNA180803.m, 27-SEP-2018 13:09

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	0.935	0.0654	Benzo(j)fluoranthene
1.000	0.930	0.0697	Total Benzofluoranthenes
1.000	0.979	0.0208	Benzo(e)pyrene
1.000	0.986	0.0138	Benzo(a)pyrene
1.168	1.136	0.0320	Indeno(1,2,3-cd)pyrene
1.188	1.183	0.0052	Benzo(g,h,i)perylene
0.000	1.000	-1.0000	Naphthalene-d8
0.000	1.000	-1.0000	Acenaphthene-d10
0.000	1.000	-1.0000	Phenanthrene-d10
0.000	1.000	-1.0000	Chrysene-d12
0.000	1.000	-1.0000	Perylene-d12
0.000	1.166	-1.1664	2-Methylnaphthalene-d10
0.000	1.188	-1.1881	Fluoranthene-d10
0.000	1.130	-1.1305	Dibenzo(a,h)anthracene-d14

RRT check based on Cgal File: NT818092702.D

On Column LOD for nt8.i, 20180927.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *



Form I
METHOD BLANK DATA SHEET
EPA 8270D-SIM

Blank

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Solid</u>	Laboratory ID:	<u>BGI0708-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>09/26/18 09:38</u>
Solids:		Preparation:	<u>EPA 3546 (Microwave)</u>
Batch:	<u>BGI0708</u>	Sequence:	<u>SGJ0048</u>
Instrument:	<u>NT8</u>	Column:	<u>RXI-17Sil ms</u>
		Cleanups:	<u>Silica Gel, Sulfur</u>
		File ID:	<u>NT818100303.D</u>
		Analyzed:	<u>10/03/18 11:53</u>
		Initial/Final:	<u>10 g / 0.5 mL</u>
		Calibration:	<u>BH00016</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg wet)	Q	DL	RL
91-20-3	Naphthalene	1	5.00	U	1.28	5.00
91-57-6	2-Methylnaphthalene	1	5.00	U	1.10	5.00
90-12-0	1-Methylnaphthalene	1	5.00	U	0.40	5.00
208-96-8	Acenaphthylene	1	5.00	U	1.08	5.00
83-32-9	Acenaphthene	1	5.00	U	0.57	5.00
86-73-7	Fluorene	1	5.00	U	0.63	5.00
85-01-8	Phenanthrene	1	5.00	U	0.72	5.00
120-12-7	Anthracene	1	5.00	U	0.87	5.00
206-44-0	Fluoranthene	1	5.00	U	0.47	5.00
129-00-0	Pyrene	1	5.00	U	0.63	5.00
56-55-3	Benzo(a)anthracene	1	5.00	U	0.82	5.00
218-01-9	Chrysene	1	5.00	U	1.05	5.00
205-99-2	Benzo(b)fluoranthene	1	5.00	U	1.37	5.00
207-08-9	Benzo(k)fluoranthene	1	5.00	U	0.76	5.00
205-82-3	Benzo(j)fluoranthene	1	5.00	U	0.68	5.00
50-32-8	Benzo(a)pyrene	1	5.00	U	0.61	5.00
193-39-5	Indeno(1,2,3-cd)pyrene	1	5.00	U	1.05	5.00
53-70-3	Dibenzo(a,h)anthracene	1	5.00	U	0.89	5.00
191-24-2	Benzo(g,h,i)perylene	1	5.00	U	1.07	5.00
	Benzo(a)fluoranthenes, Total	1	10.0	U	3.01	10.0

SURROGATES	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	150.00	91.1	60.7	32 - 120	
Dibenzo[a,h]anthracene-d14	150.00	148	98.5	21 - 133	
Fluoranthene-d10	150.00	117	78.3	36 - 134	

Data File: \\target\share\chem3\nt8.1\20181003.6\NT818100303.D

Date: 03-OCT-2018 11:53

Client ID:

Sample Info: BG10708-BLK1,

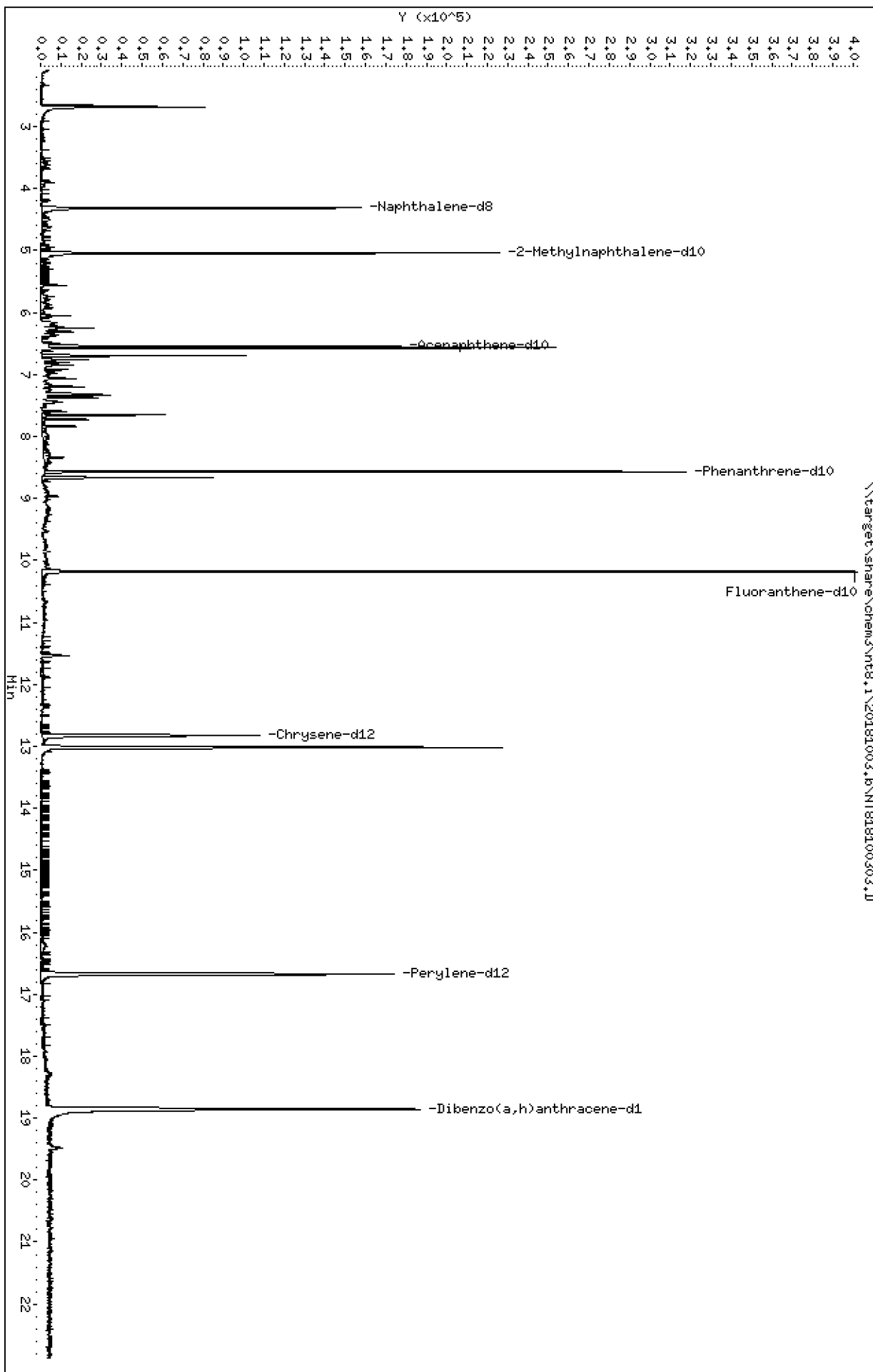
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100303.D
 Lab Smp Id: BGI0708-BLK1
 Inj Date : 03-OCT-2018 11:53
 Operator : JZ Inst ID: nt8.i
 Smp Info : BGI0708-BLK1,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.312	4.319	(1.000)	137283	2.00000	
2 Naphthalene	128		Compound Not Detected.					
\$ 3 2-Methylnaphthalene-d10	152		5.036	5.040	(1.168)	88424	1.82128	1.821
4 2-Methylnaphthalene	141		Compound Not Detected.					
5 1-methylnaphthalene	141		Compound Not Detected.					
9 Acenaphthylene	152		Compound Not Detected.					
* 10 Acenaphthene-d10	164		6.567	6.564	(1.000)	72422	2.00000	
11 Acenaphthene	153		Compound Not Detected.					
12 Dibenzofuran	168		Compound Not Detected.					
14 Fluorene	166		Compound Not Detected.					
* 15 Phenanthrene-d10	188		8.565	8.565	(1.000)	140900	2.00000	
16 Phenanthrene	178		Compound Not Detected.					
17 Anthracene	178		Compound Not Detected.					
22 Fluoranthene	202		Compound Not Detected.					
\$ 21 Fluoranthene-d10	212		10.181	10.178	(1.189)	208961	2.34831	2.348
23 Pyrene	202		Compound Not Detected.					
24 Benzo(a)anthracene	228		Compound Not Detected.					
* 25 Chrysene-d12	240		13.017	13.014	(1.000)	155075	2.00000	
27 Chrysene	228		Compound Not Detected.					
28 Benzo(b)fluoranthene	252		Compound Not Detected.					
29 Benzo(k)fluoranthene	252		Compound Not Detected.					
30 Benzo(j)fluoranthene	252		Compound Not Detected.					
31 Total Benzofluoranthenes	252		Compound Not Detected.					
32 Benzo(a)pyrene	252		Compound Not Detected.					
* 33 Perylene-d12	264		16.672	16.672	(1.000)	143261	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		Compound Not Detected.					
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.854	18.861	(1.131)	189960	2.95578	2.956
38 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
39 Benzo(g,h,i)perylene	276		Compound Not Detected.					
35 Perylene	252		Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100303.D Calibration Time: 11:20
 Lab Smp Id: BGI0708-BLK1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	137283	4.10
10 Acenaphthene-d10	72272	36136	144544	72422	0.21
15 Phenanthrene-d10	156058	78029	312116	140900	-9.71
25 Chrysene-d12	174389	87195	348778	155075	-11.08
33 Perylene-d12	150701	75351	301402	143261	-4.94

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.15
10 Acenaphthene-d10	6.56	6.06	7.06	6.57	0.05
15 Phenanthrene-d10	8.57	8.07	9.07	8.57	0.00
25 Chrysene-d12	13.01	12.51	13.51	13.02	0.02
33 Perylene-d12	16.67	16.17	17.17	16.67	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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100303.D

Lab ID: BGI0708-BLK1
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 11:53

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *



LCS / LCS DUPLICATE RECOVERY EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Water

Analyzed: 09/27/18 13:35

Batch: BGI0618

Laboratory ID: BGI0618-BS1

Preparation: EPA 3520C (Liq Liq)

Sequence Name: LCS

Initial/Final: 500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	Q	LCS % REC. #	QC LIMITS REC.
Naphthalene	3.00	1.79		59.8	33 - 120
2-Methylnaphthalene	3.00	1.77		59.1	29 - 120
1-Methylnaphthalene	3.00	1.83		60.8	37 - 120
Acenaphthylene	3.00	1.52		50.5	32 - 120
Acenaphthene	3.00	1.81		60.4	38 - 120
Fluorene	3.00	1.81		60.4	41 - 120
Phenanthrene	3.00	2.19		73.1	49 - 120
Anthracene	3.00	1.95		64.9	39 - 120
Fluoranthene	3.00	2.29		76.5	48 - 120
Pyrene	3.00	2.33		77.6	48 - 120
Benzo(a)anthracene	3.00	2.01		67.1	37 - 120
Chrysene	3.00	2.34		78.1	48 - 120
Benzo(b)fluoranthene	3.00	2.94		97.8	38 - 128
Benzo(k)fluoranthene	3.00	2.69		89.8	36 - 130
Benzo(j)fluoranthene	3.00	2.56		85.5	49 - 120
Benzo(a)pyrene	3.00	1.98		65.9	25 - 120
Indeno(1,2,3-cd)pyrene	3.00	2.29		76.5	32 - 120
Dibenzo(a,h)anthracene	3.00	2.15		71.5	21 - 120
Benzo(g,h,i)perylene	3.00	2.48		82.6	28 - 120
Benzo(a)fluoranthenes, Total	9.00	8.19		91.0	46 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Naphthalene	3.00	1.67		55.6	7.28	30	33 - 120
2-Methylnaphthalene	3.00	1.68		56.0	5.31	30	29 - 120
1-Methylnaphthalene	3.00	1.70		56.7	7.12	30	37 - 120
Acenaphthylene	3.00	1.43		47.8	5.65	30	32 - 120
Acenaphthene	3.00	1.78		59.4	1.53	30	38 - 120
Fluorene	3.00	1.89		63.1	4.40	30	41 - 120
Phenanthrene	3.00	2.38		79.3	8.23	30	49 - 120
Anthracene	3.00	2.14		71.5	9.59	30	39 - 120
Fluoranthene	3.00	2.52		84.0	9.44	30	48 - 120

* Indicates values outside of QC limits



LCS / LCS DUPLICATE RECOVERY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Water

Analyzed: 09/27/18 14:02

Batch: BGI0618

Laboratory ID: BGI0618-BSD1

Preparation: EPA 3520C (Liq Liq)

Sequence Name: LCS Dup

Initial/Final: 500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Pyrene	3.00	2.55		84.8	8.86	30	48 - 120
Benzo(a)anthracene	3.00	2.33		77.7	14.6	30	37 - 120
Chrysene	3.00	2.67		89.0	13.0	30	48 - 120
Benzo(b)fluoranthene	3.00	3.42		114	15.2	30	38 - 128
Benzo(k)fluoranthene	3.00	3.33		111	21.0	30	36 - 130
Benzo(j)fluoranthene	3.00	3.03		101	16.6	30	49 - 120
Benzo(a)pyrene	3.00	2.45		81.8	21.5	30	25 - 120
Indeno(1,2,3-cd)pyrene	3.00	3.06		102	28.6	30	32 - 120
Dibenzo(a,h)anthracene	3.00	2.98	*	99.5	32.7 *	30	21 - 120
Benzo(g,h,i)perylene	3.00	3.34		111	29.6	30	28 - 120
Benzo(a)fluoranthenes, Total	9.00	9.80		109	17.9	30	46 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20180927.b\NT818092704.D

Date : 27-SEP-2018 13:35

Client ID:

Sample Info: BQ10618-BS1,

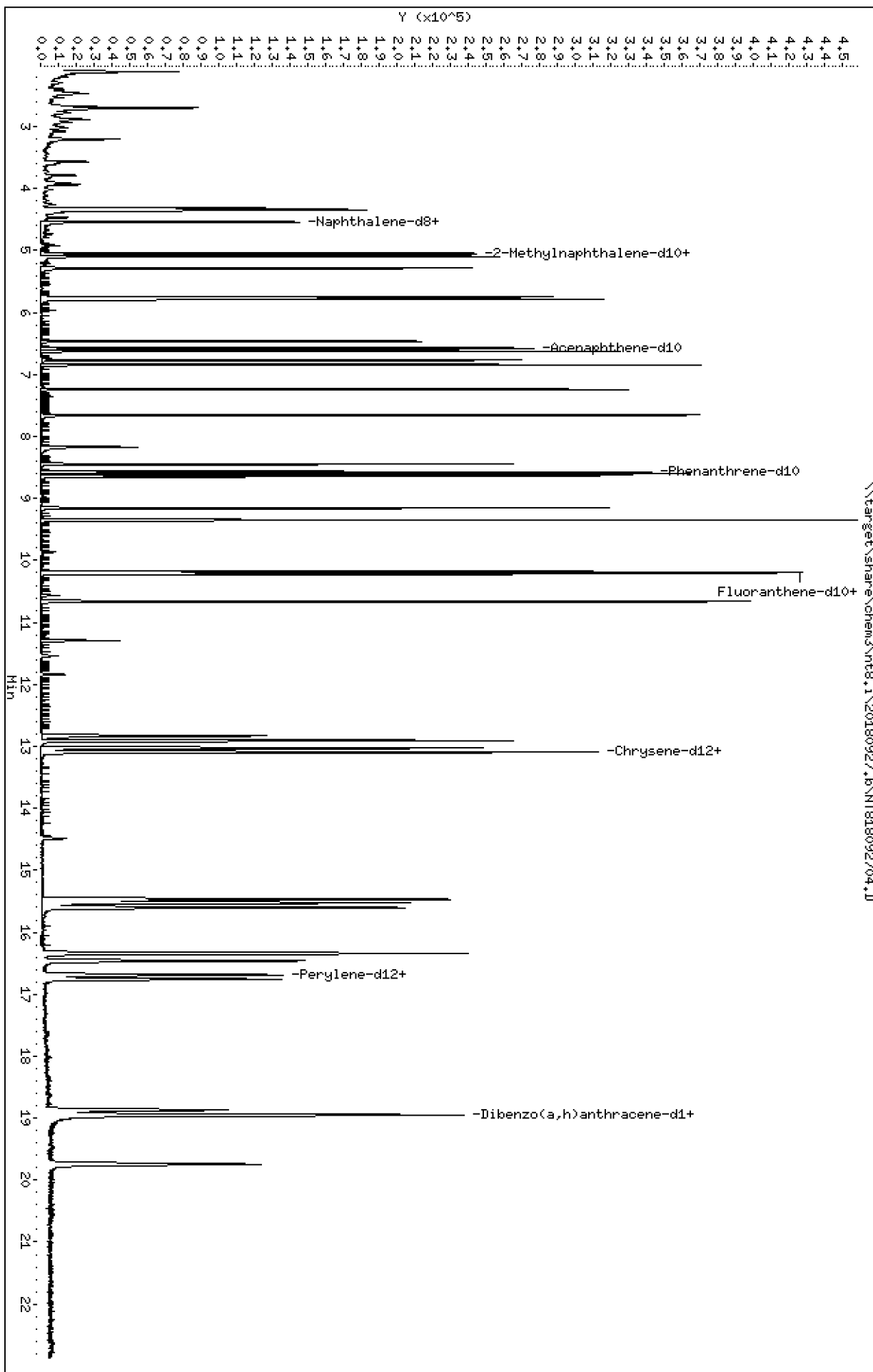
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

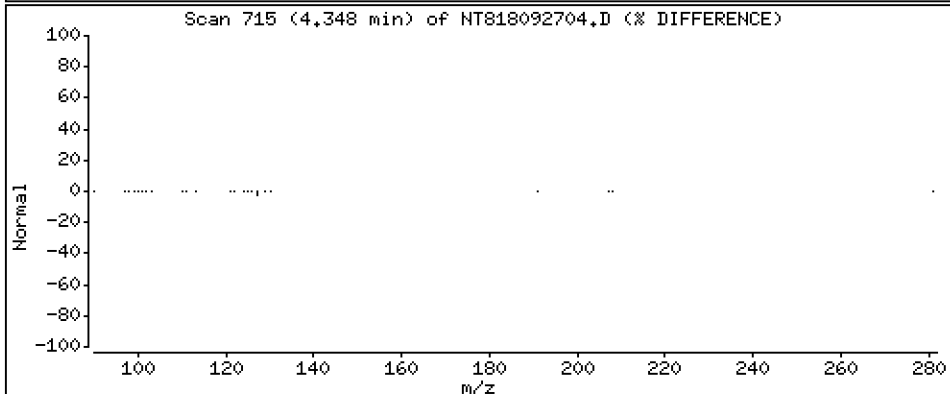
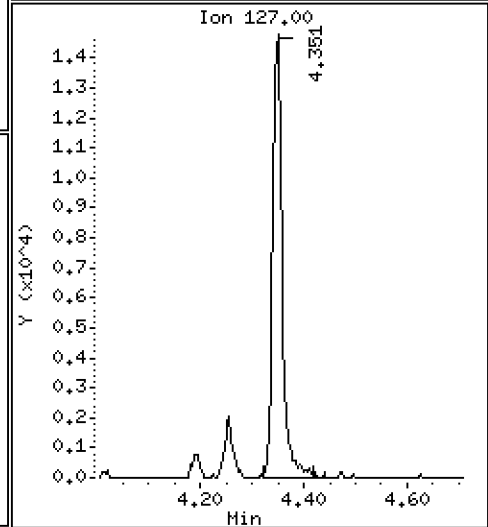
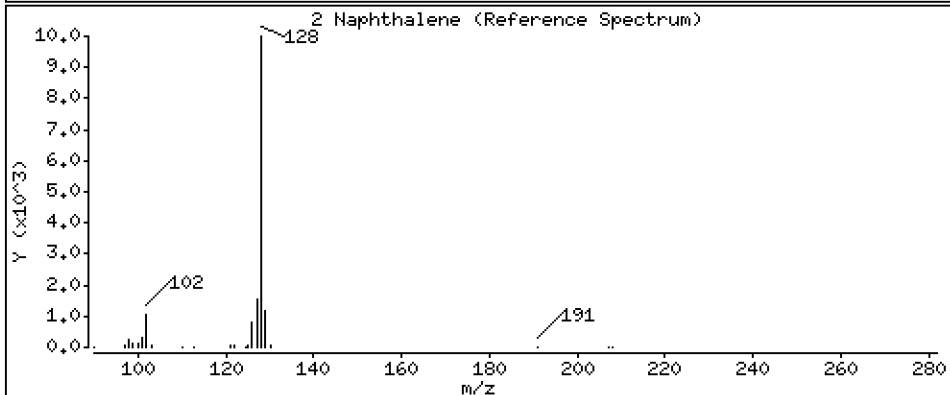
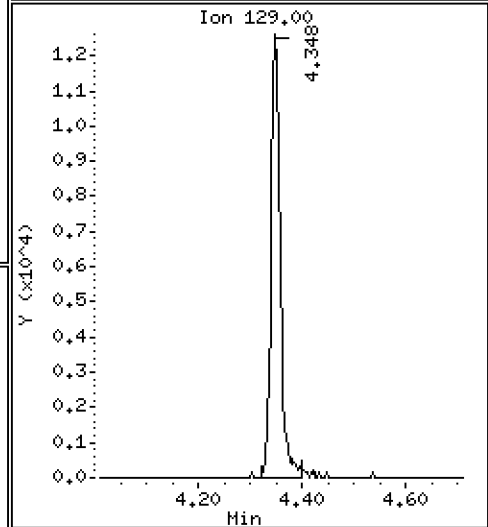
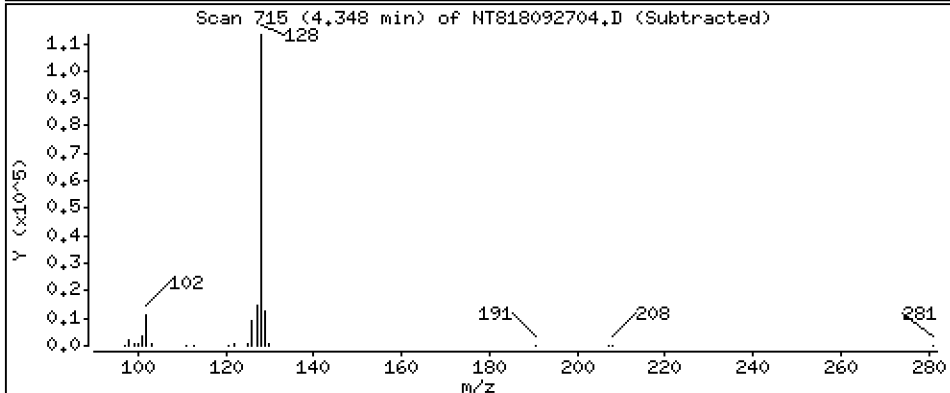
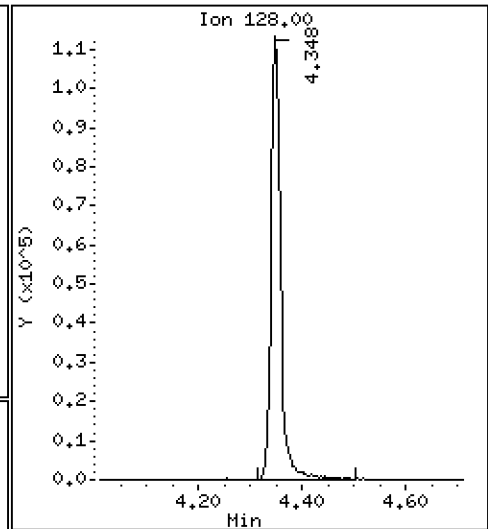
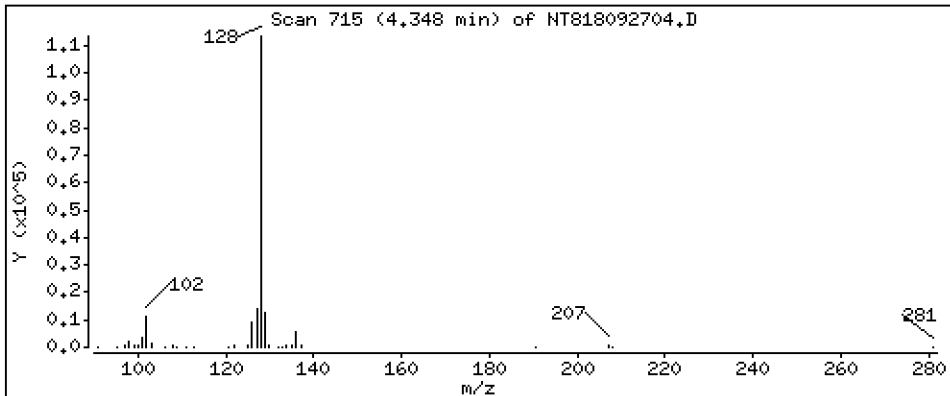
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 1.793 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

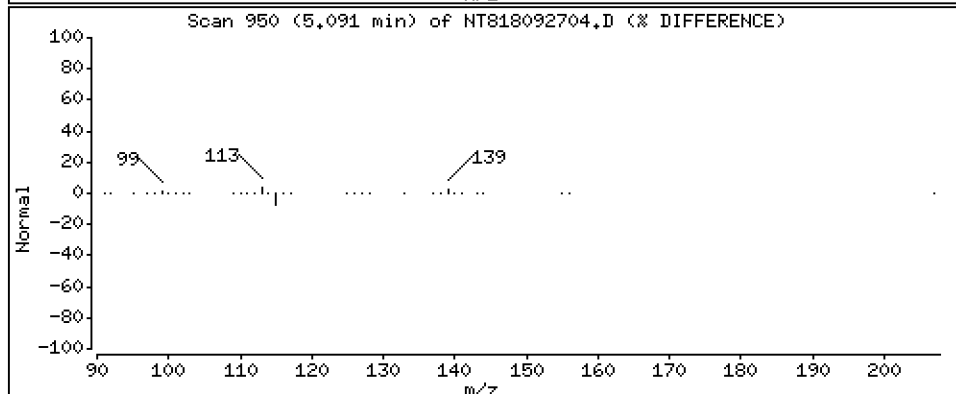
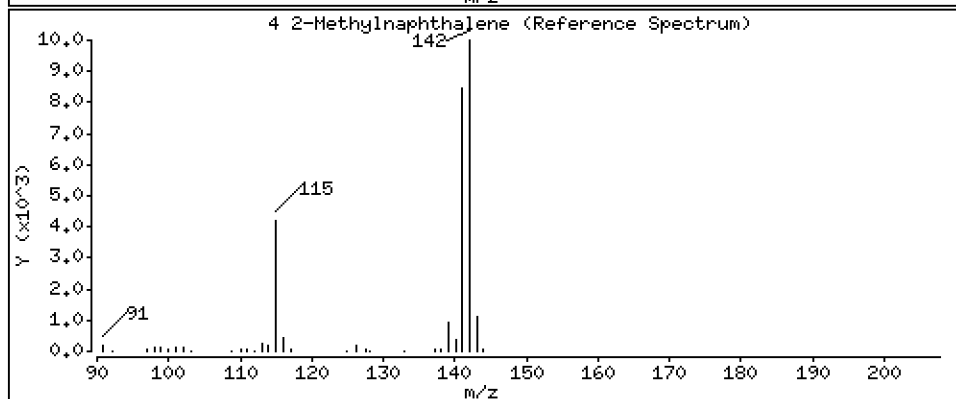
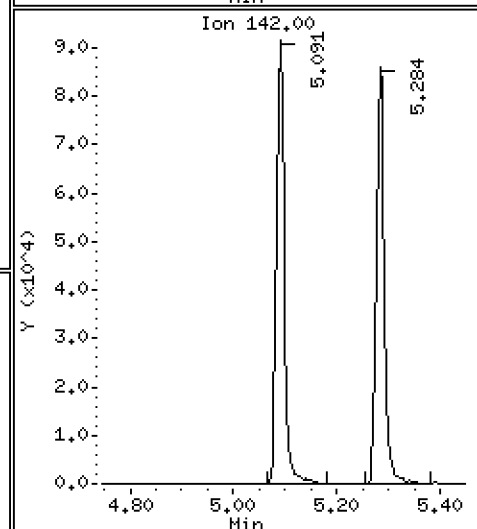
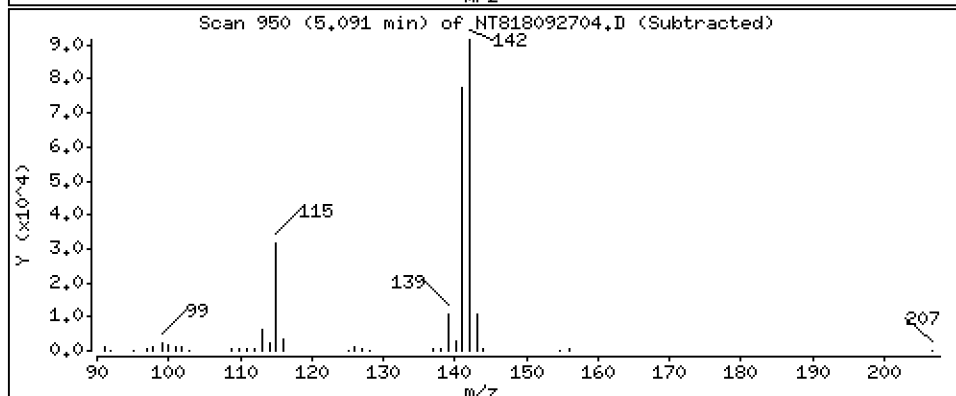
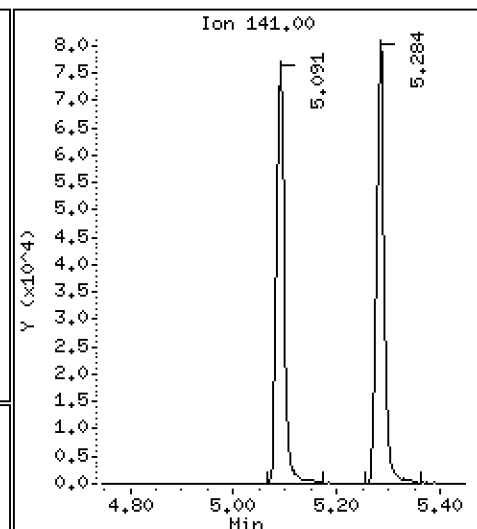
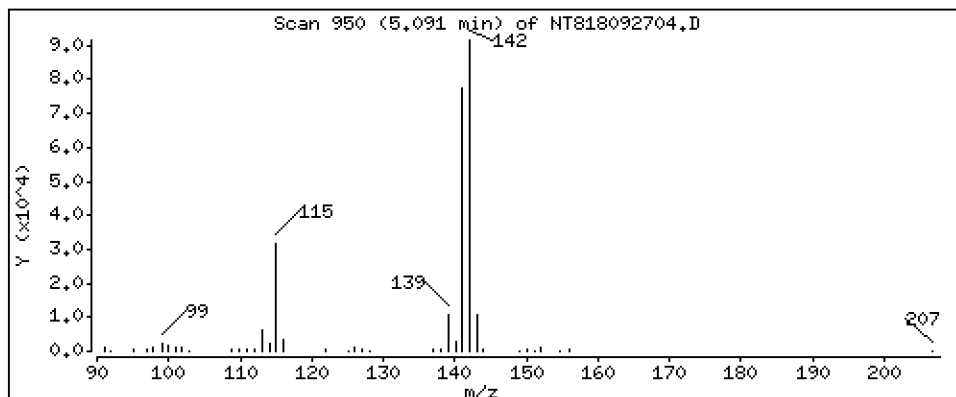
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4 2-Methylnaphthalene

Concentration: 1.772 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

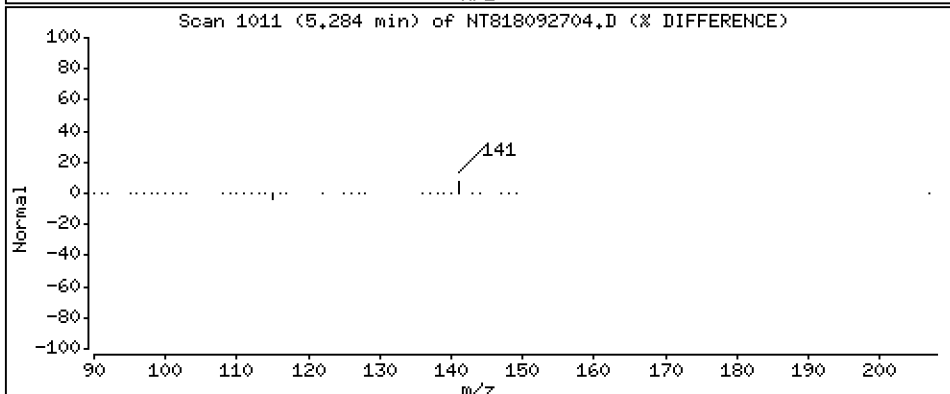
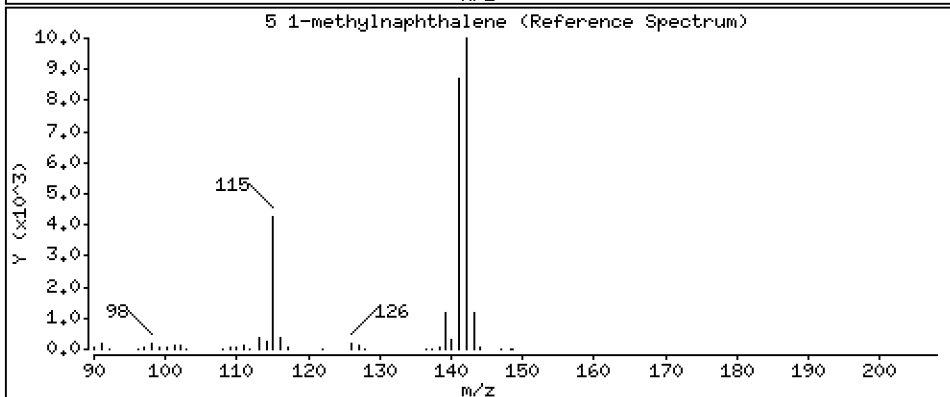
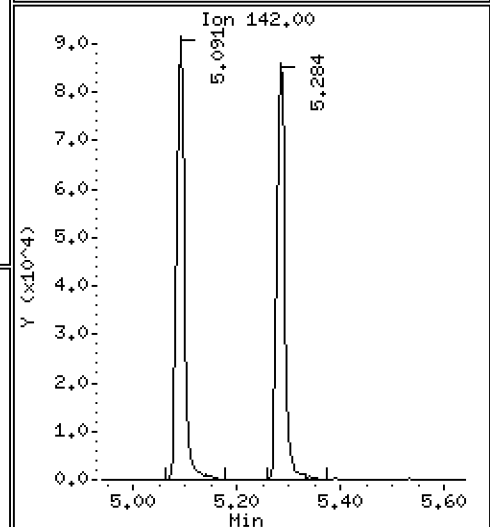
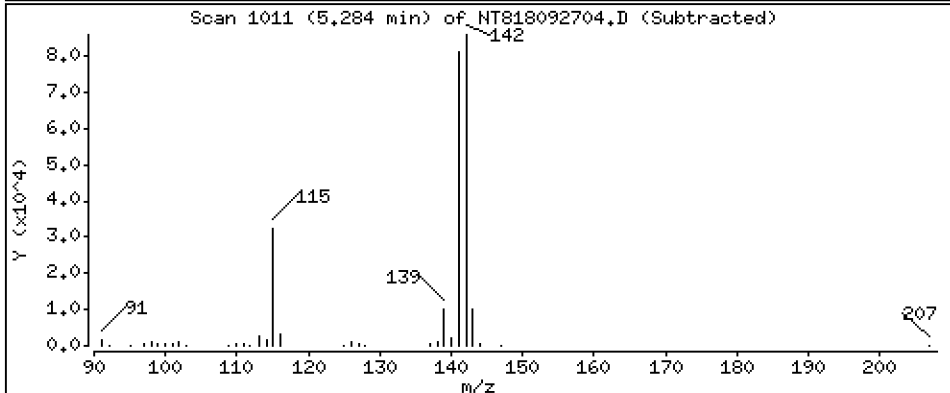
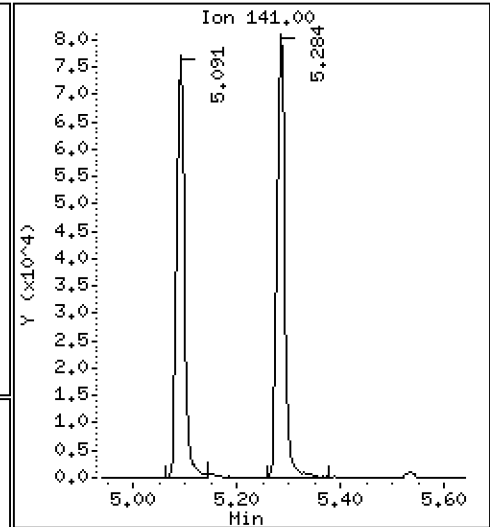
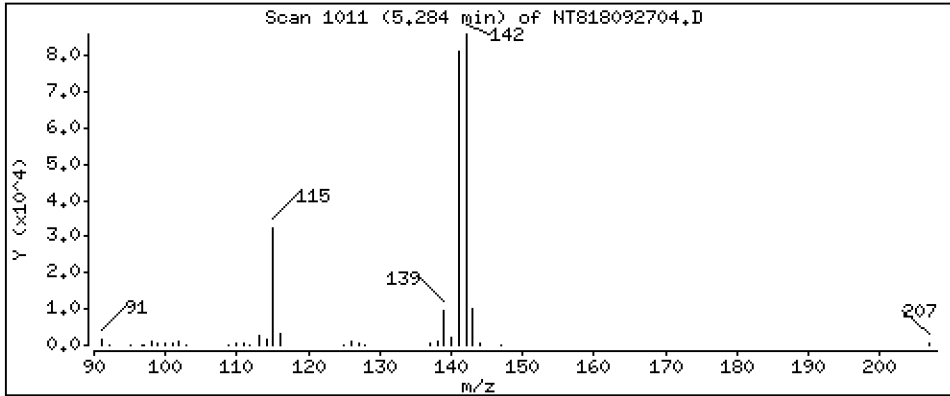
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

5 1-methylnaphthalene

Concentration: 1.825 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

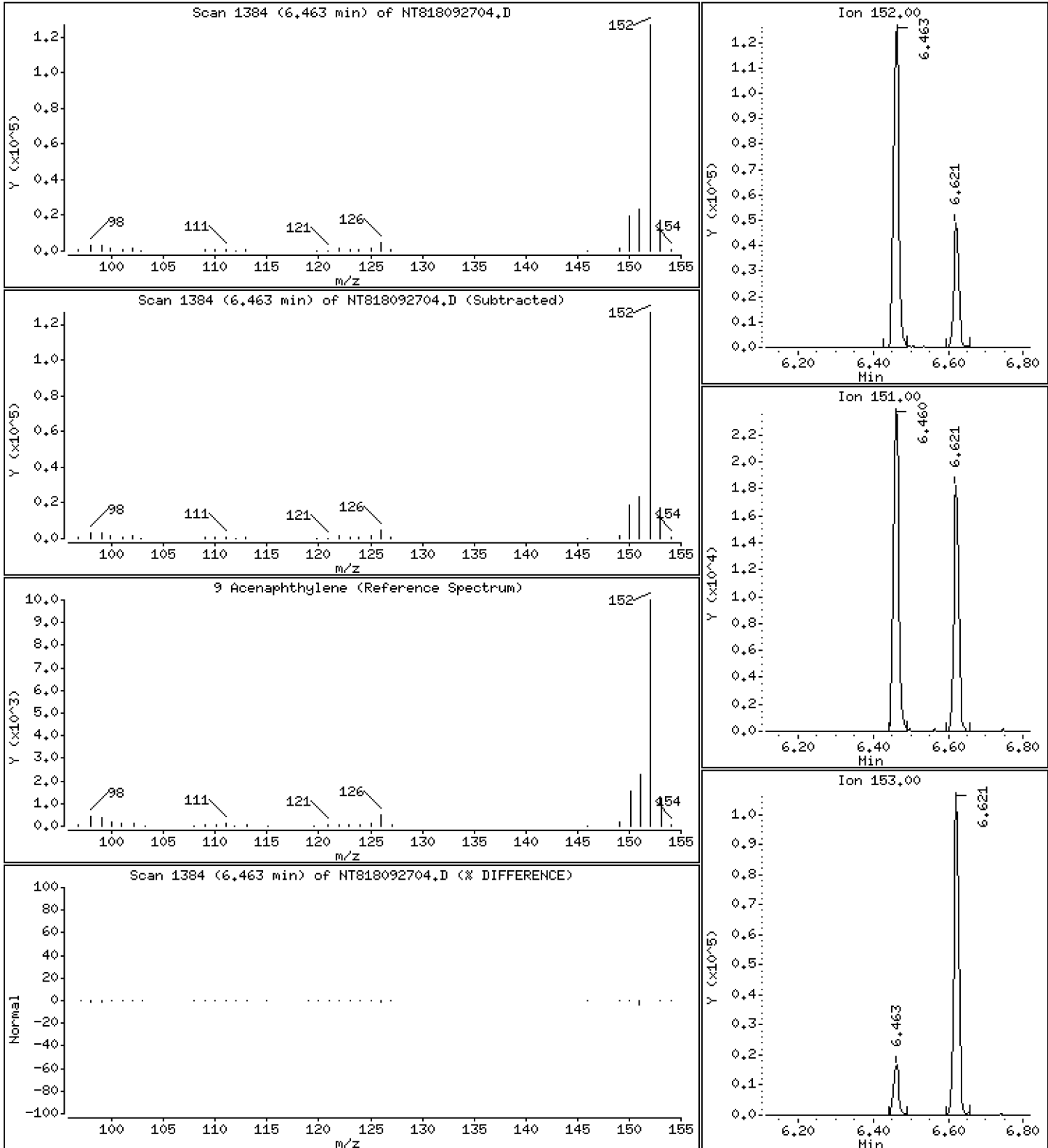
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

9 Acenaphthylene

Concentration: 1.516 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

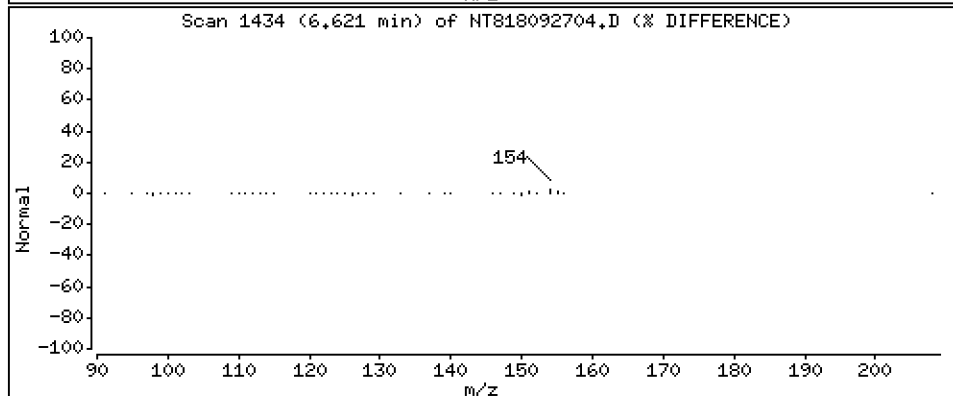
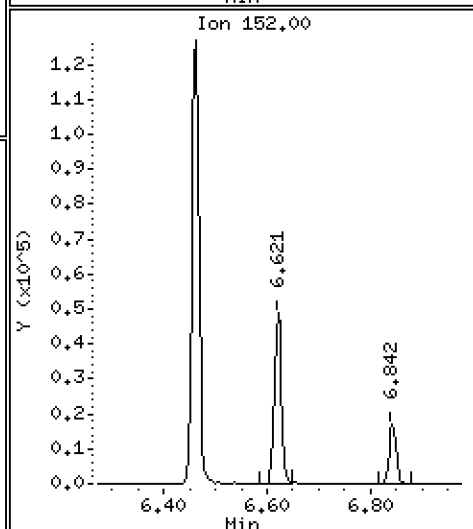
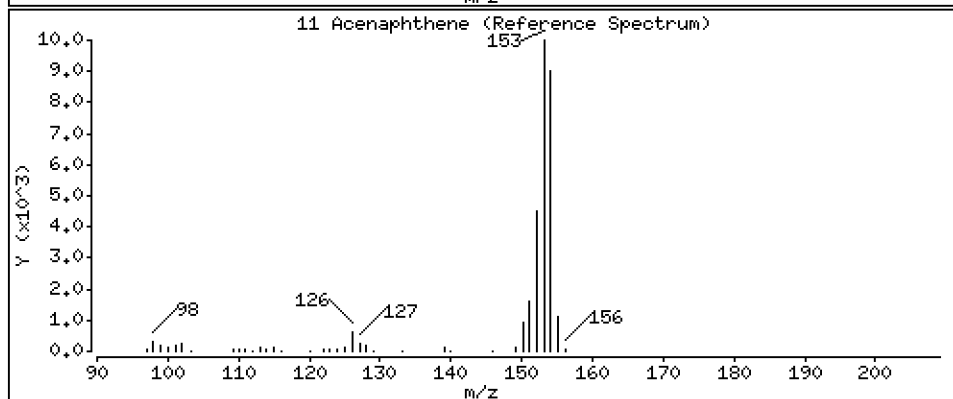
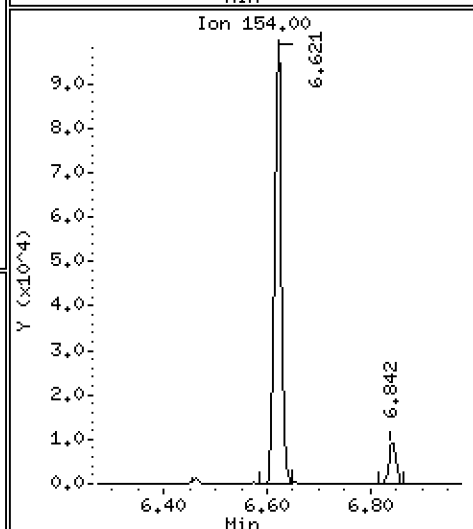
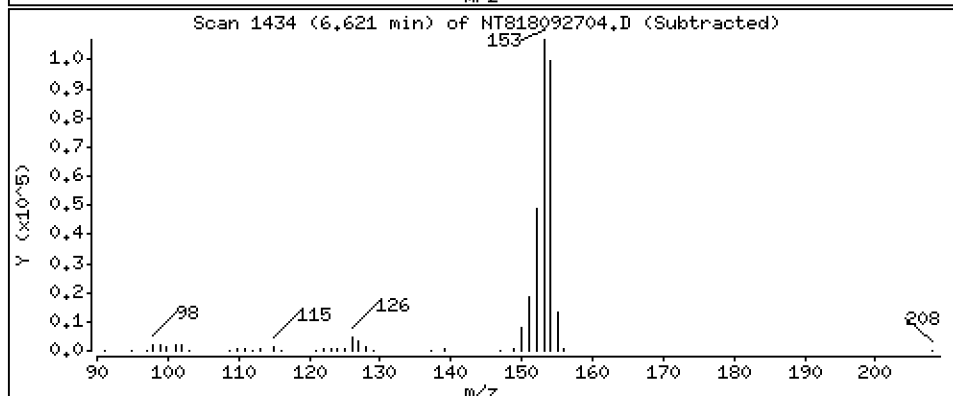
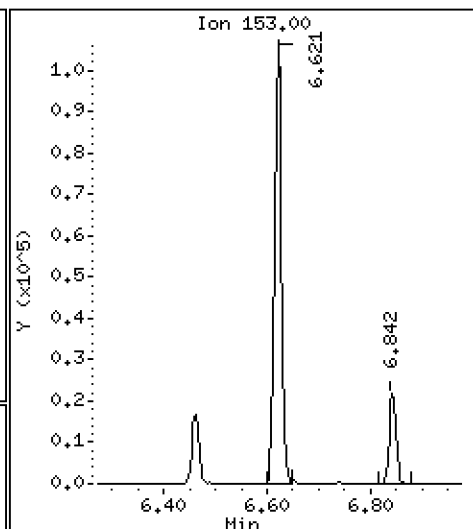
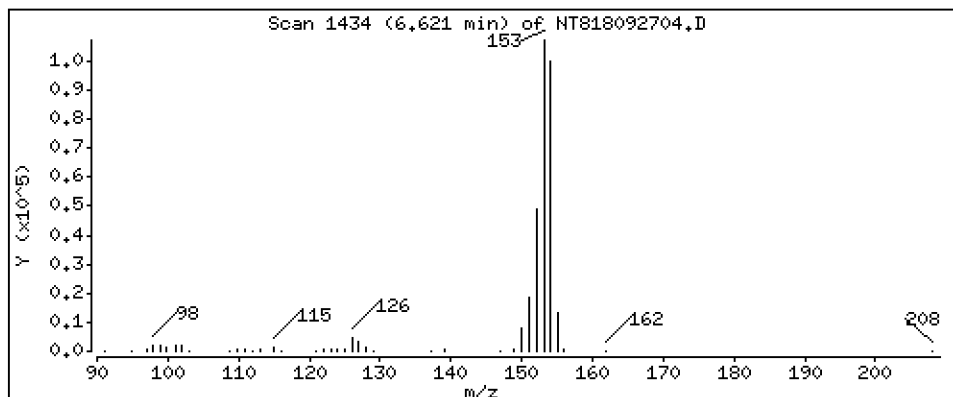
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

11 Acenaphthene

Concentration: 1.811 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

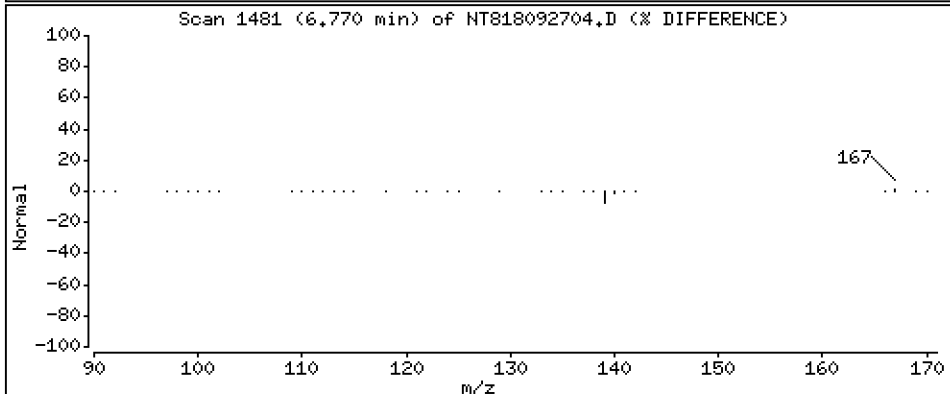
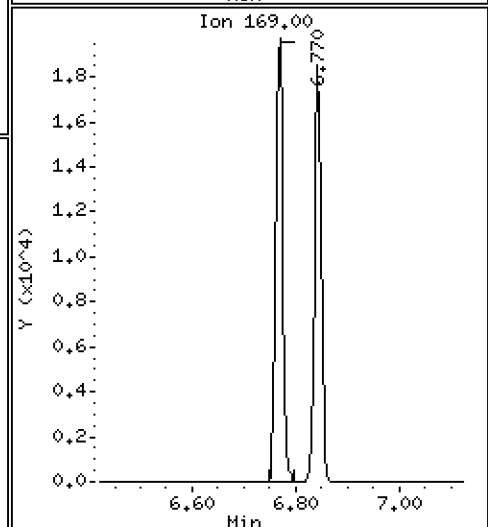
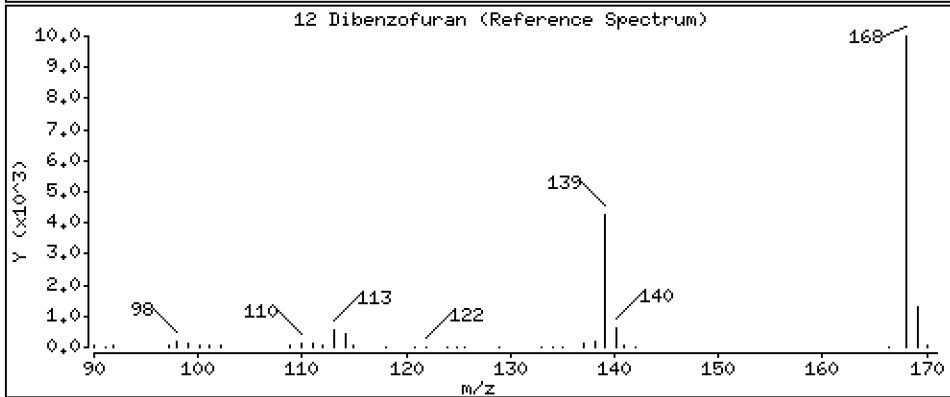
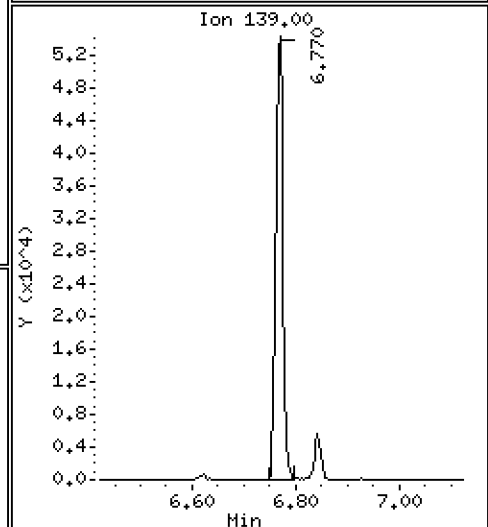
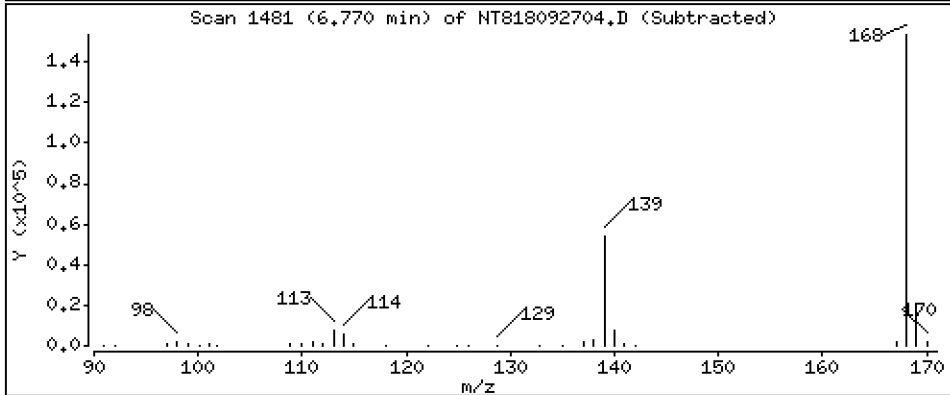
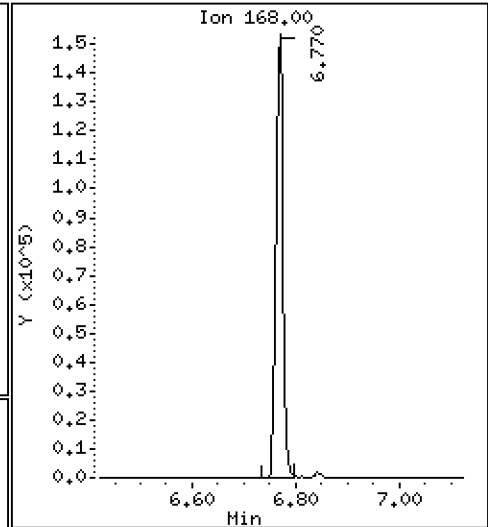
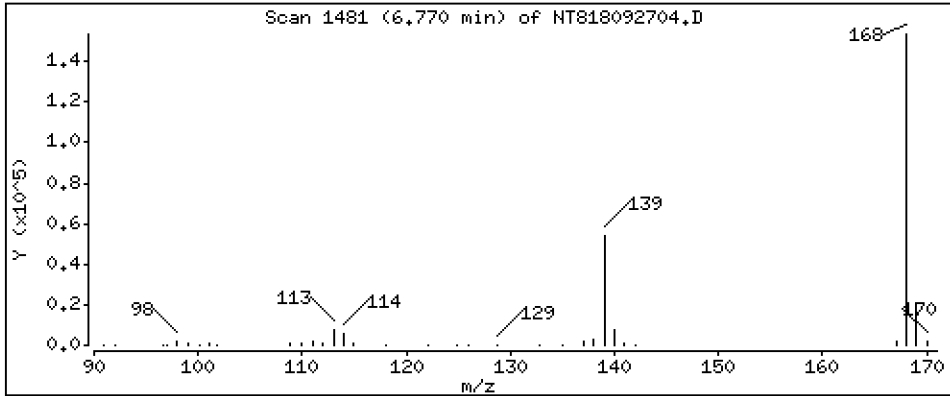
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

12 Dibenzofuran

Concentration: 1,896 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

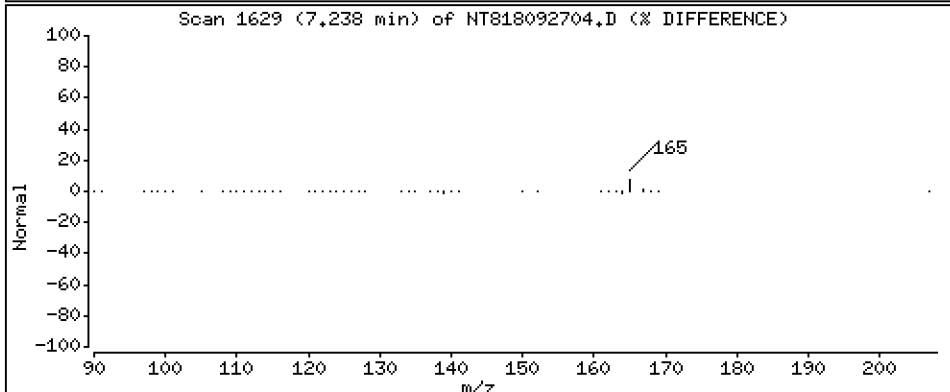
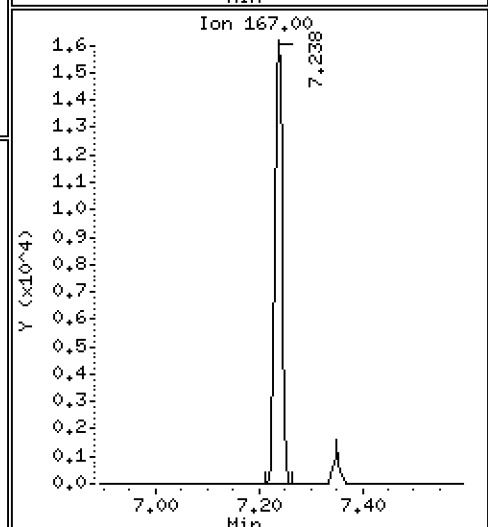
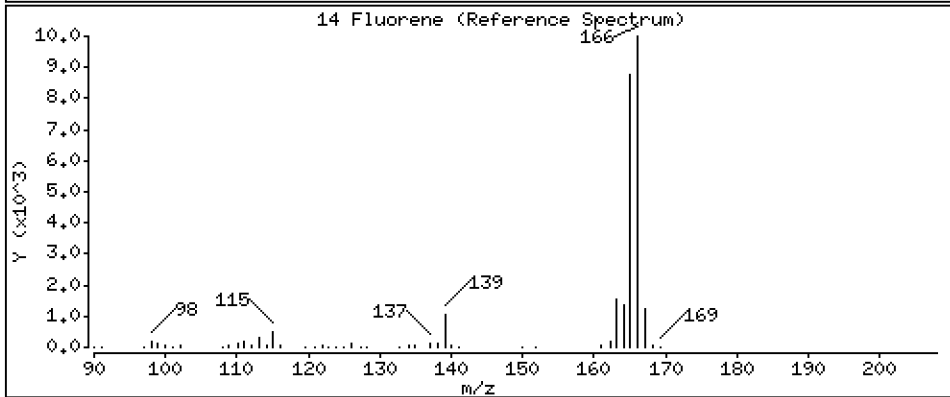
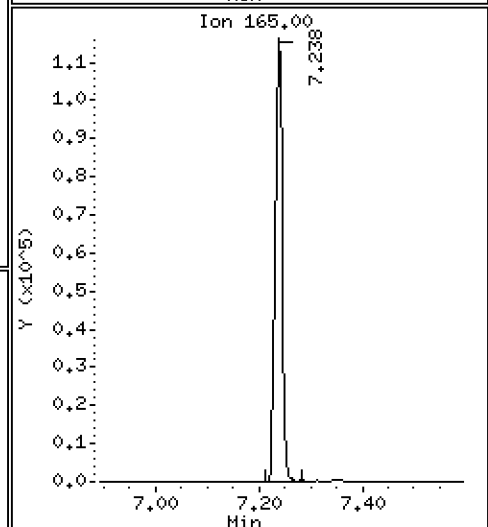
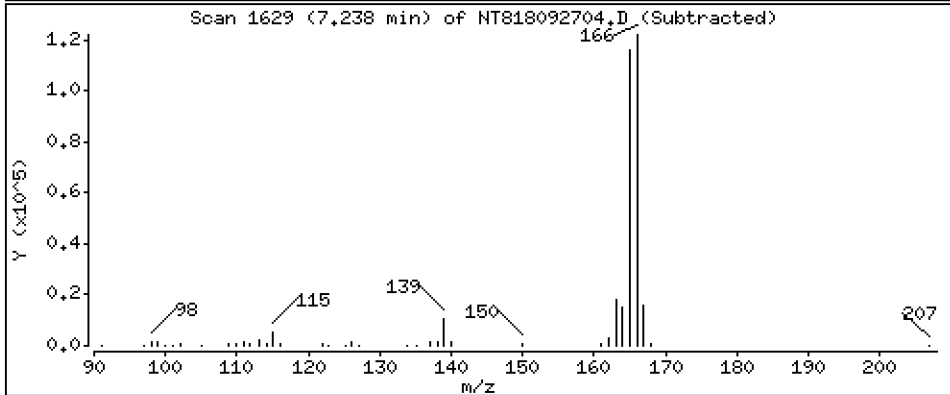
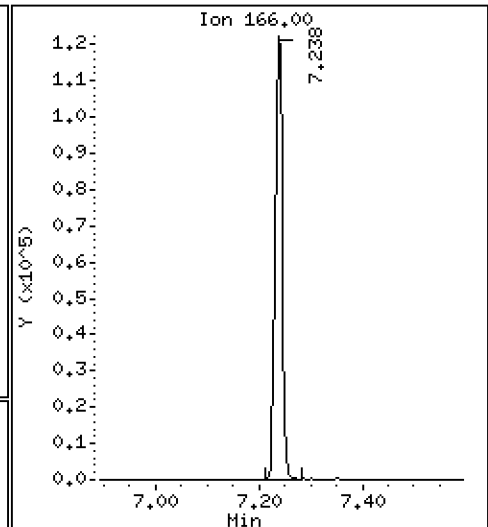
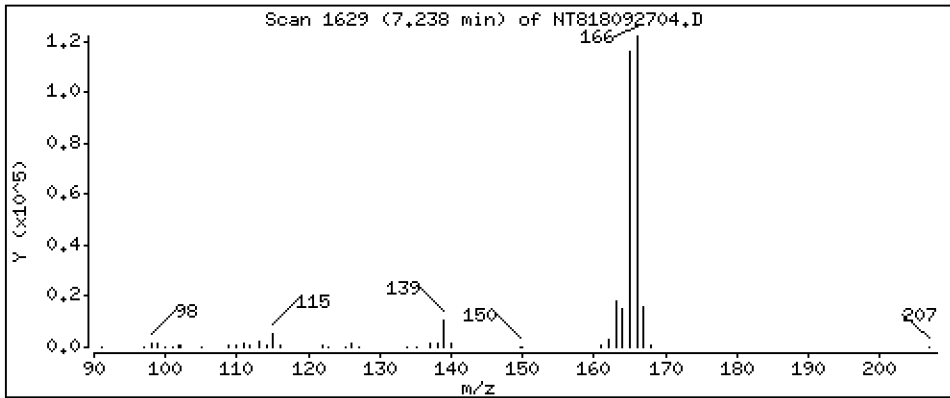
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

14 Fluorene

Concentration: 1.813 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

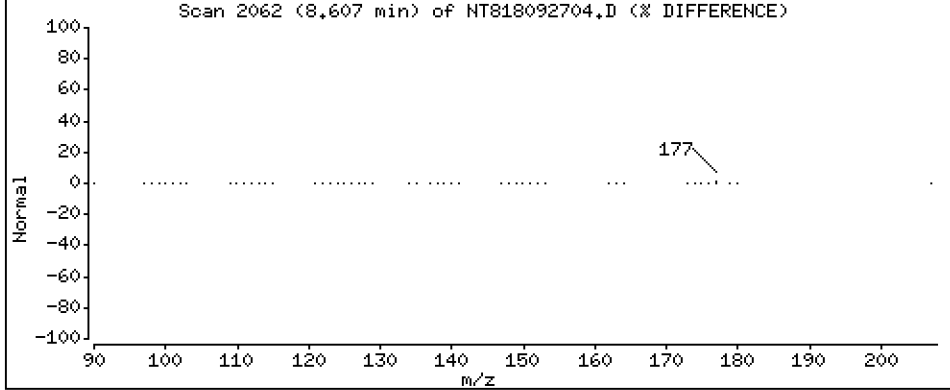
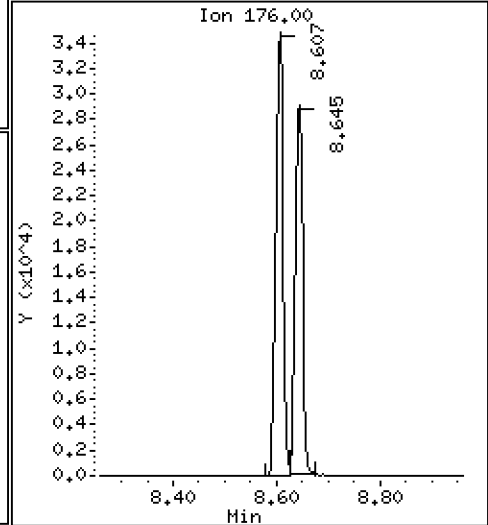
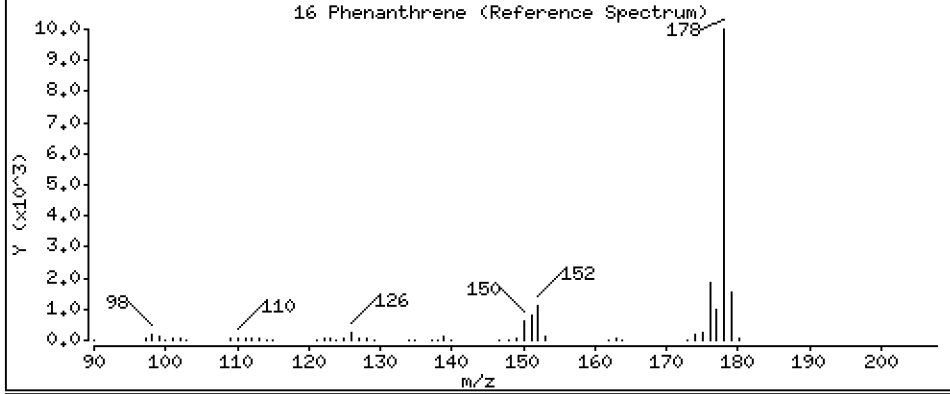
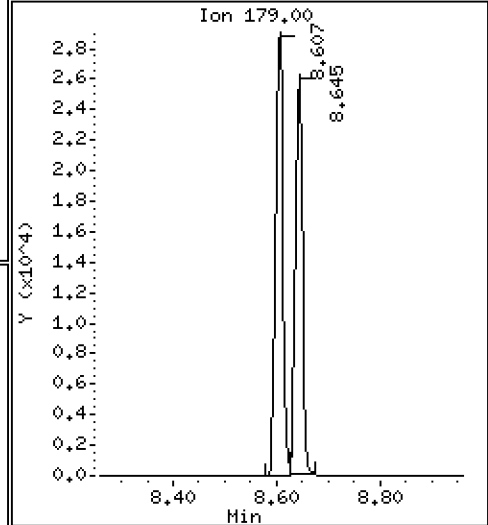
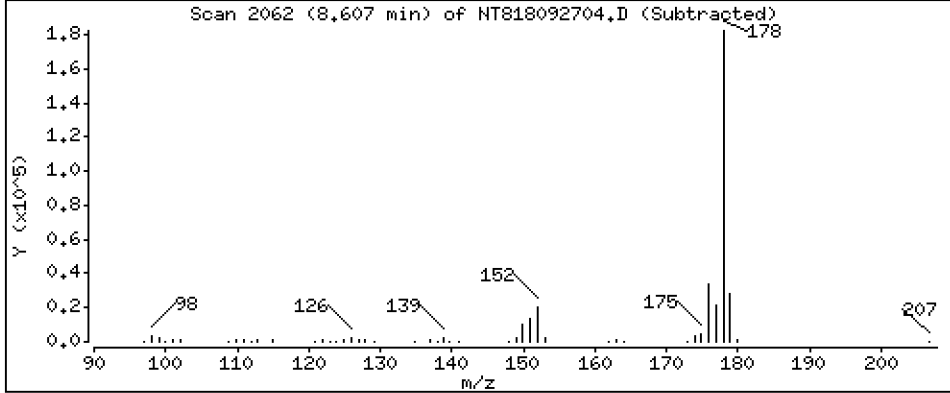
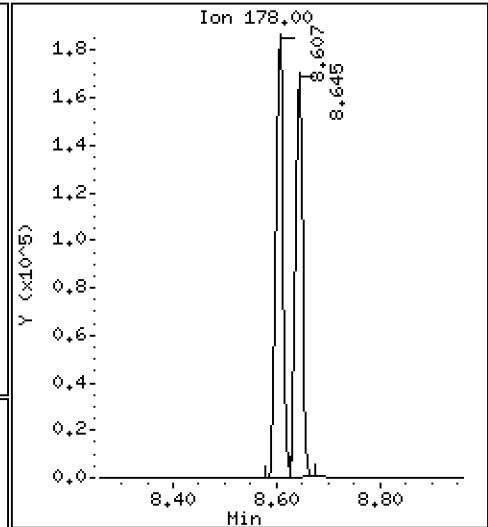
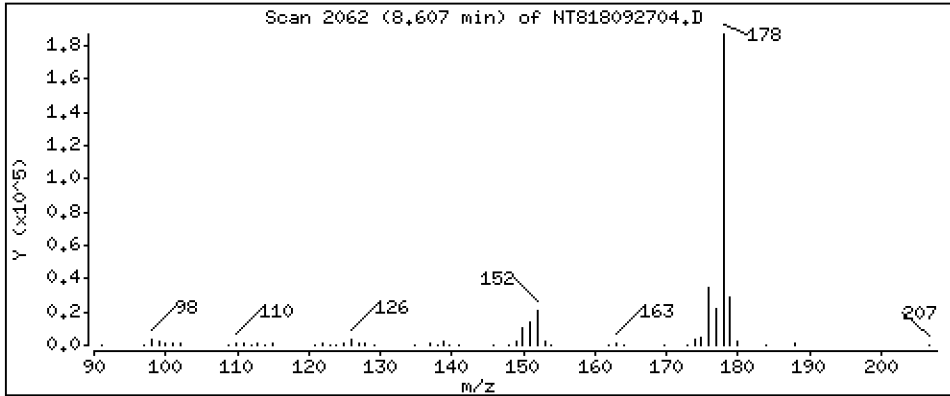
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

16 Phenanthrene

Concentration: 2,192 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

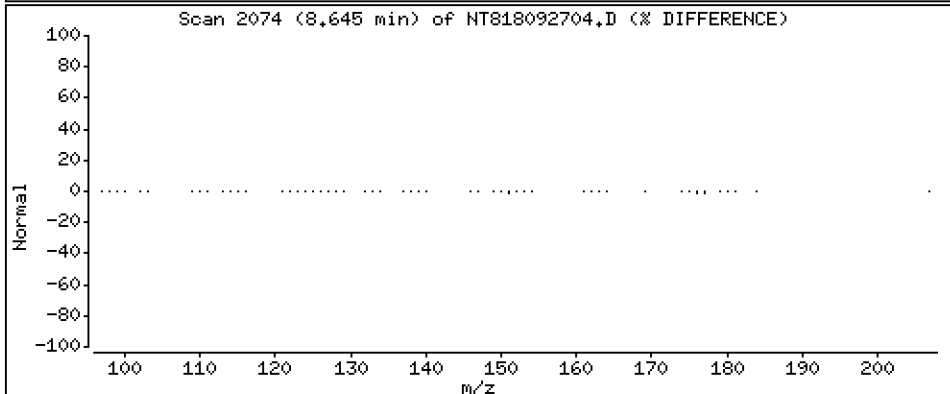
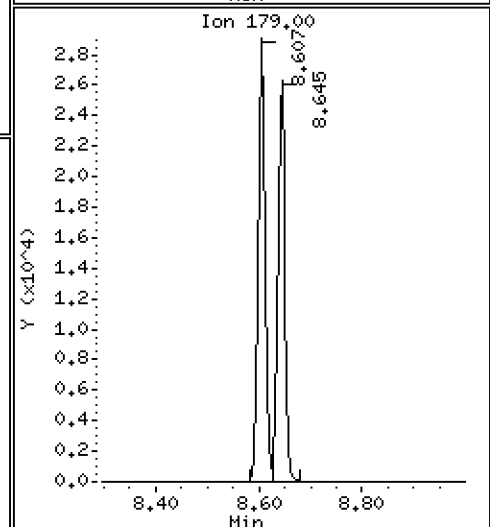
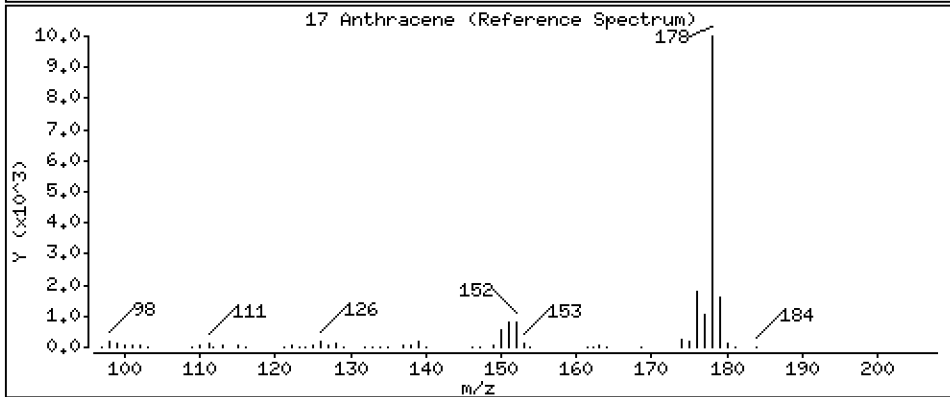
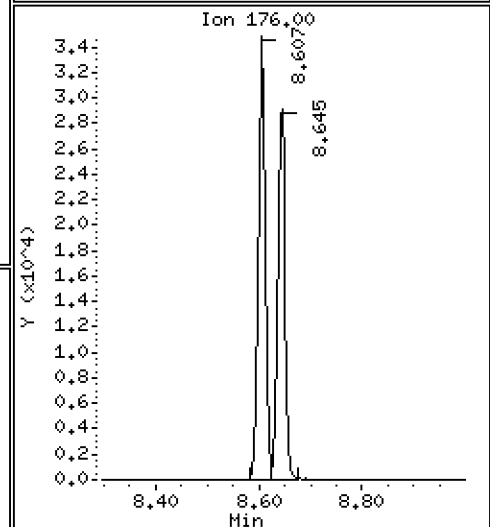
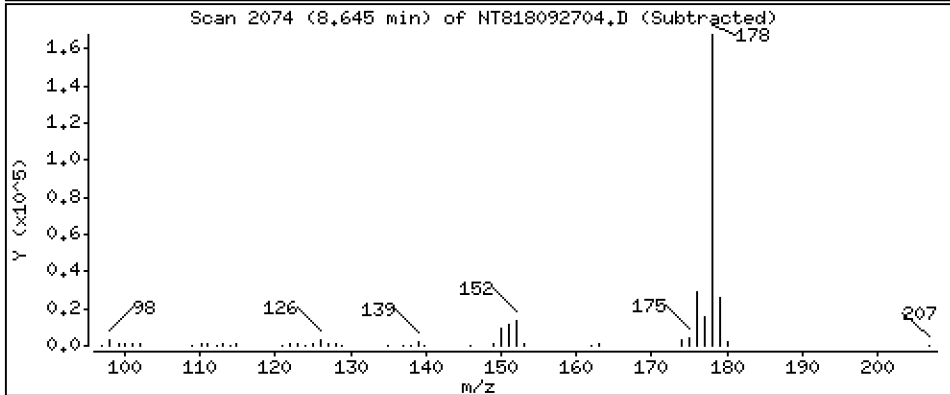
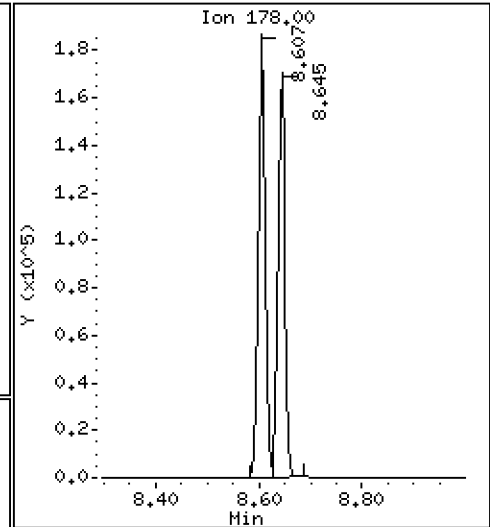
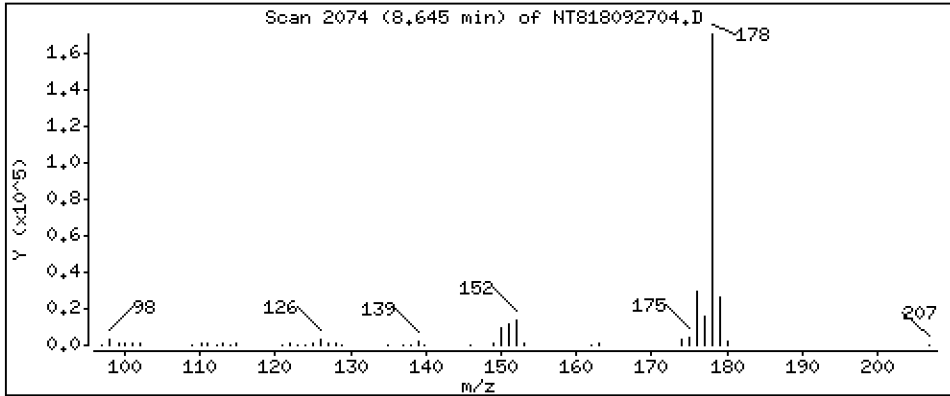
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

17 Anthracene

Concentration: 1,948 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

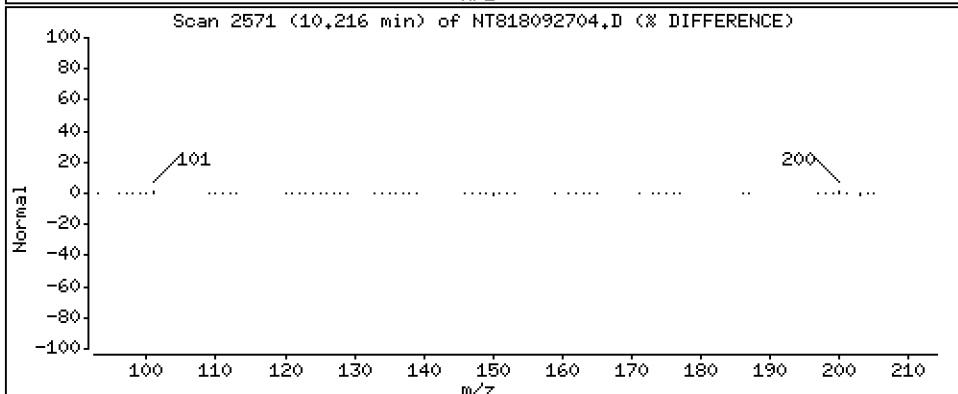
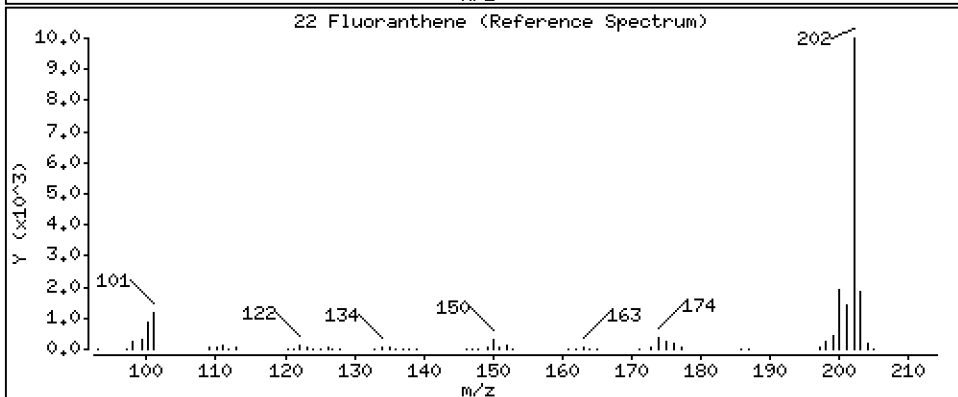
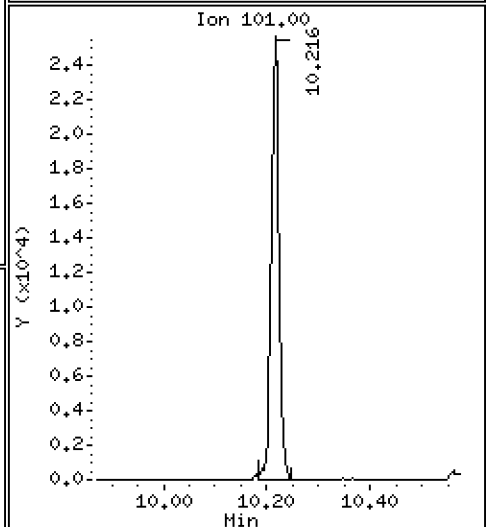
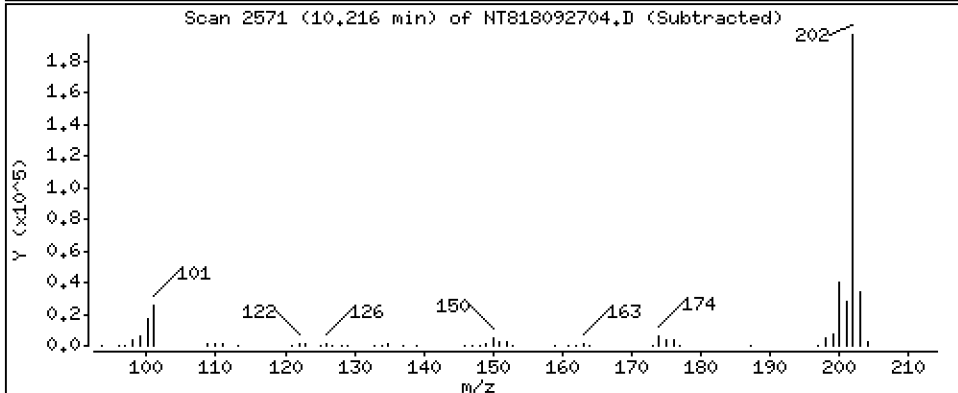
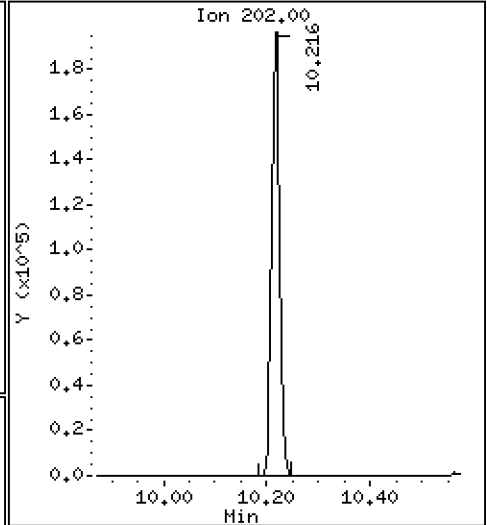
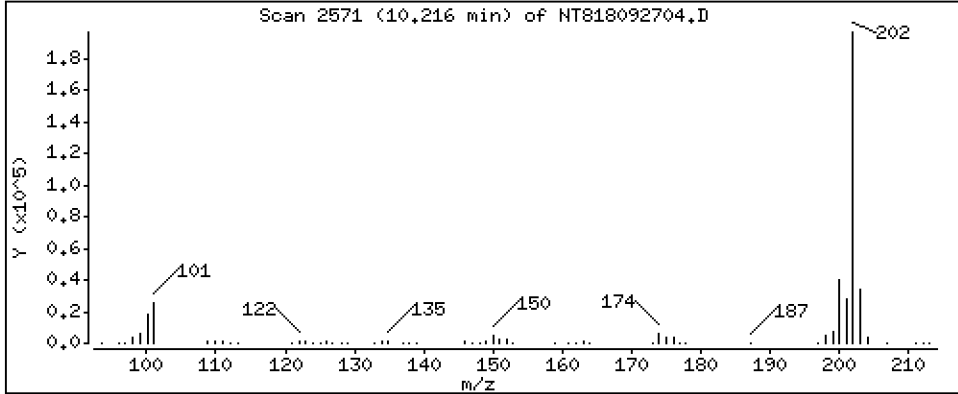
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 2,294 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

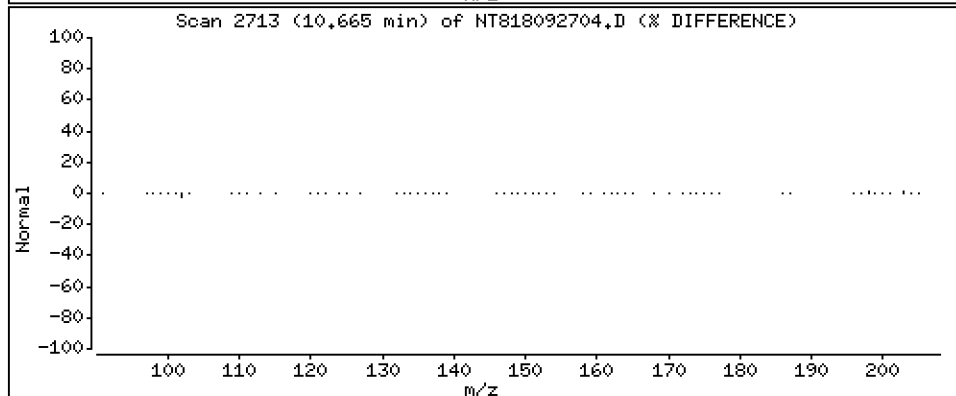
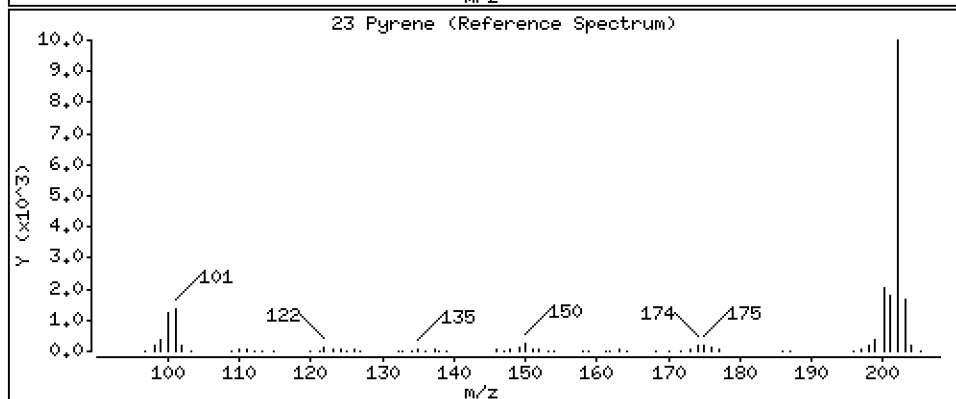
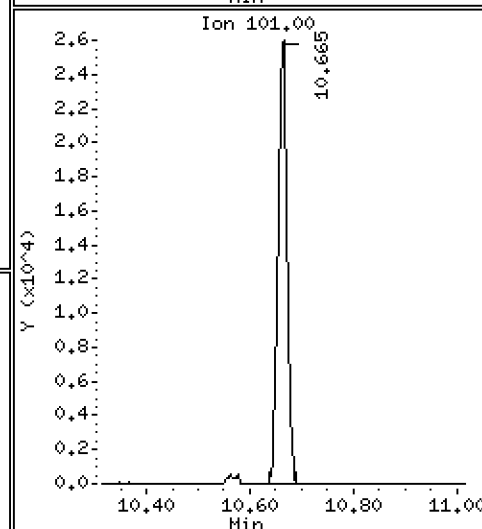
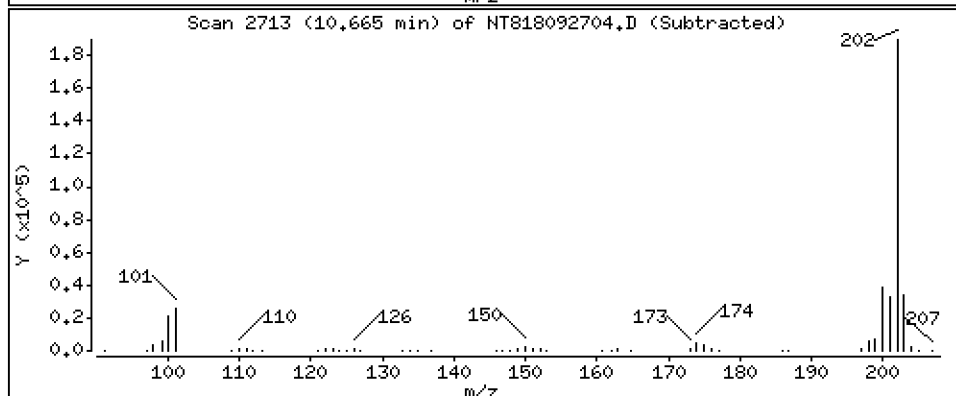
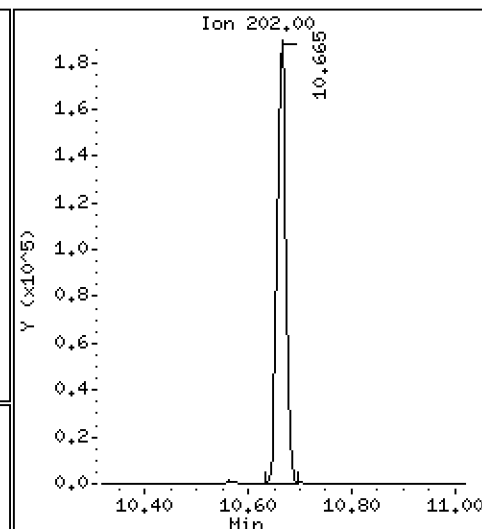
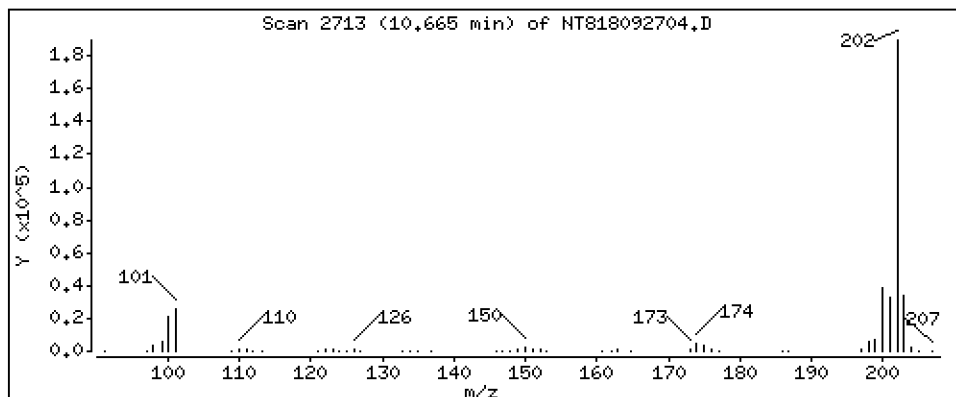
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 2,329 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

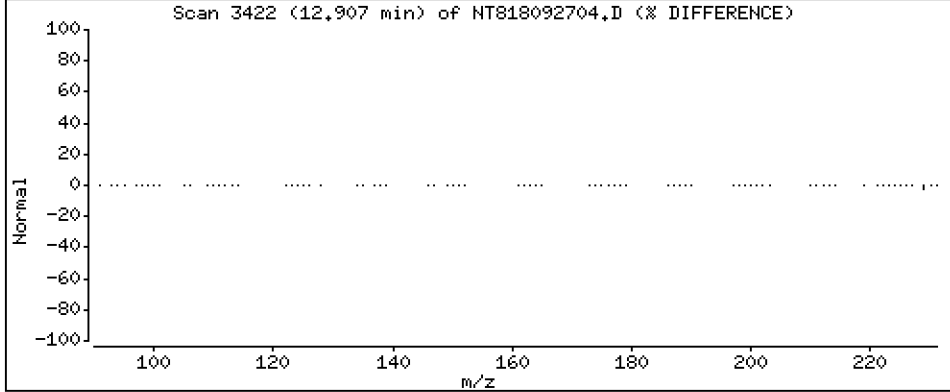
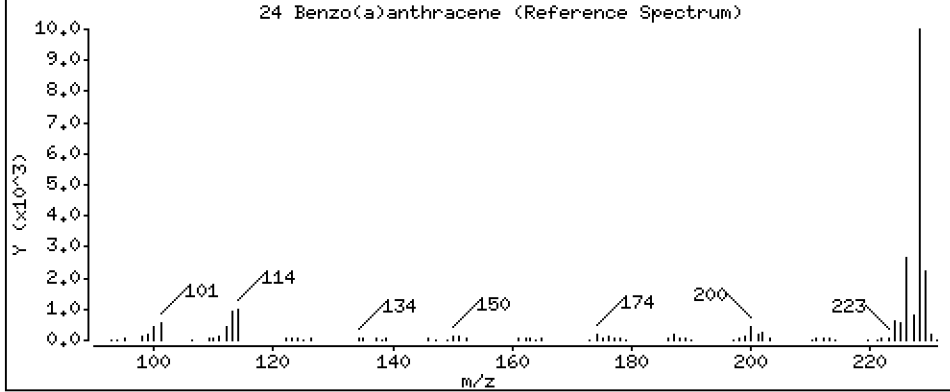
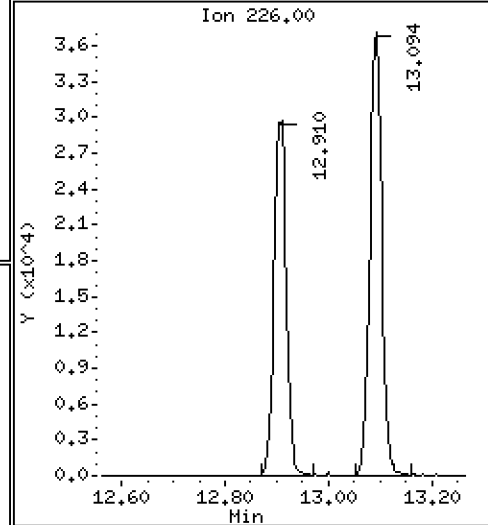
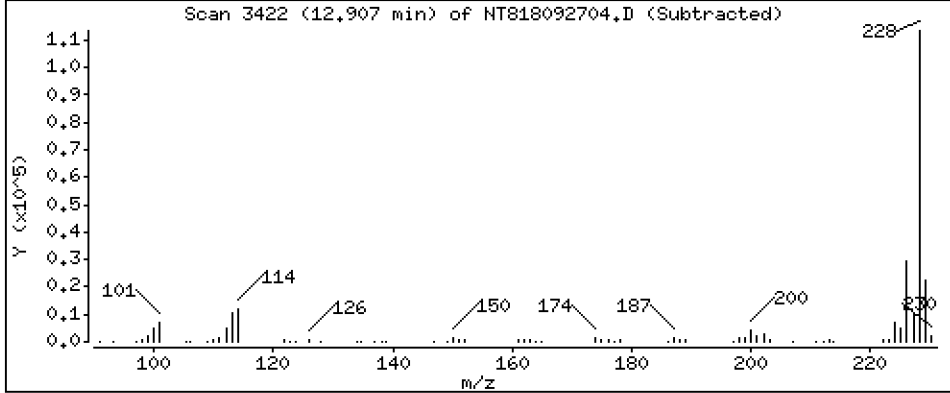
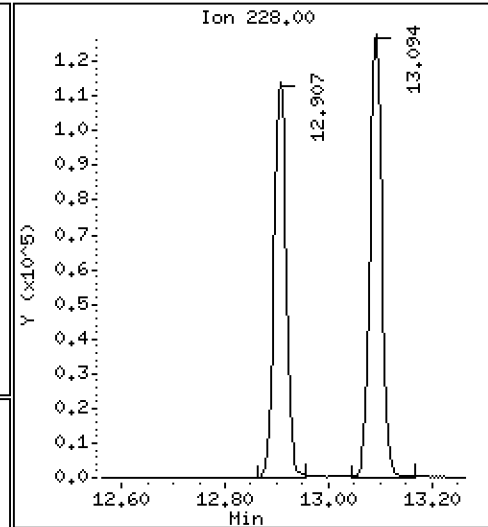
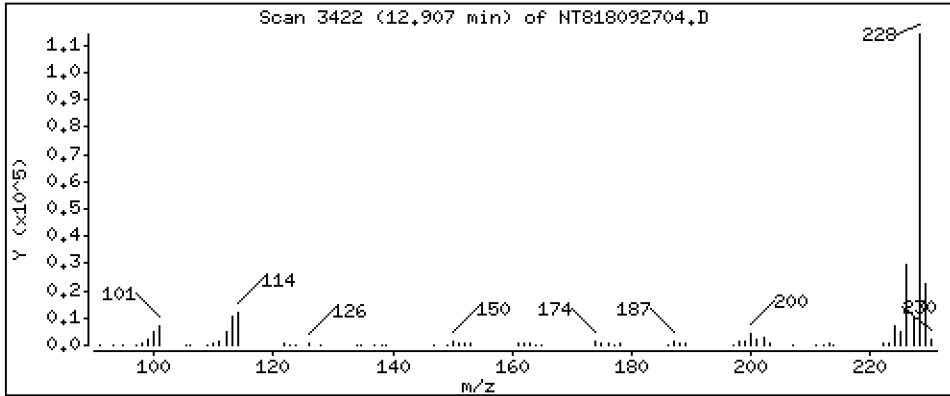
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 2,014 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

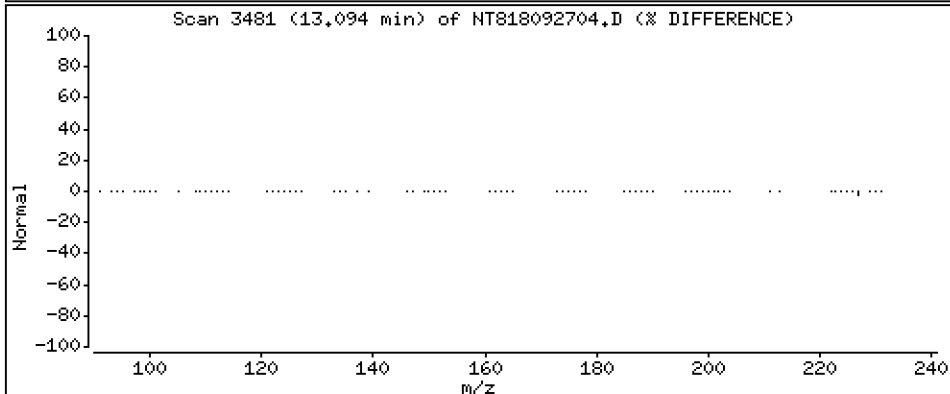
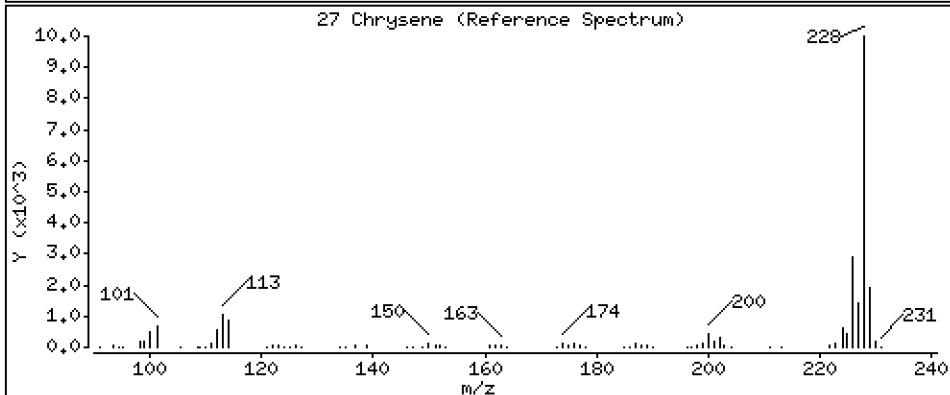
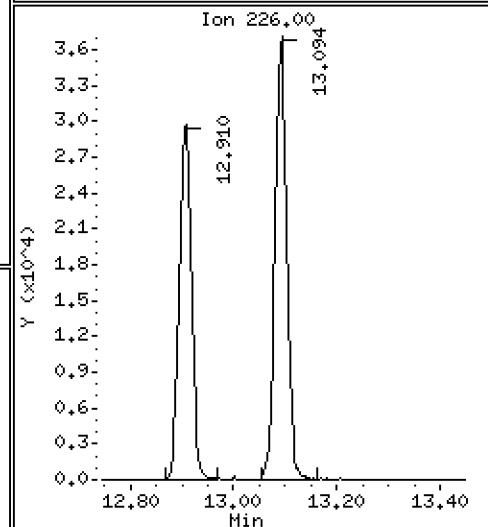
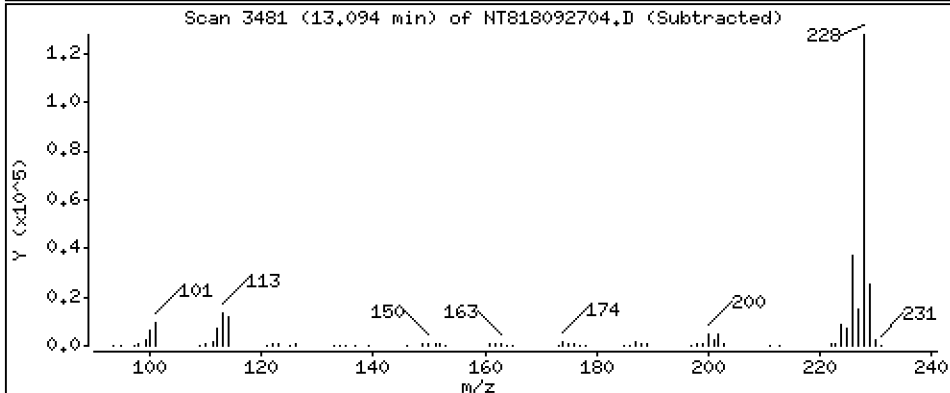
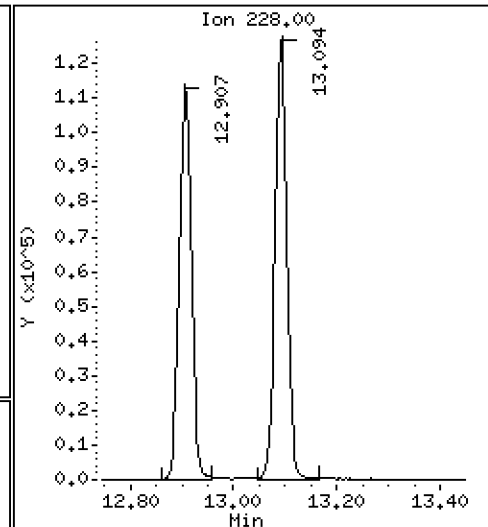
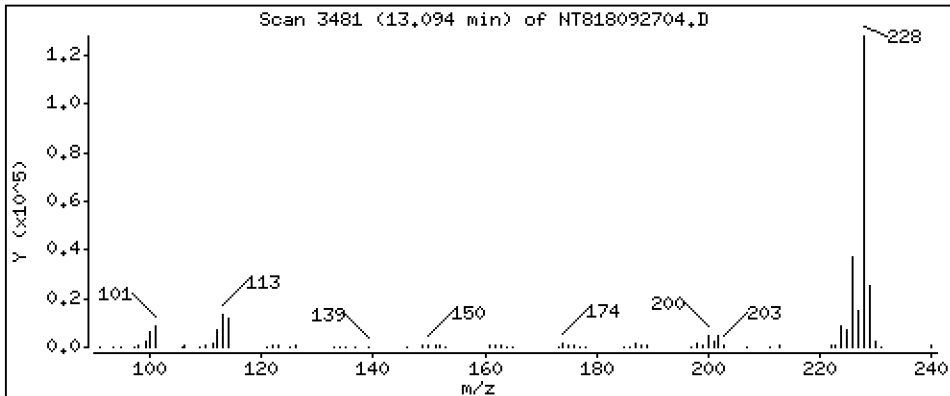
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 2,344 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

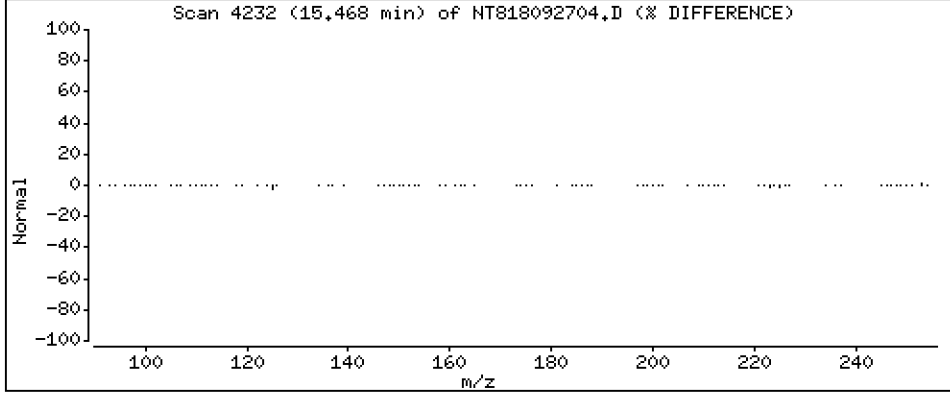
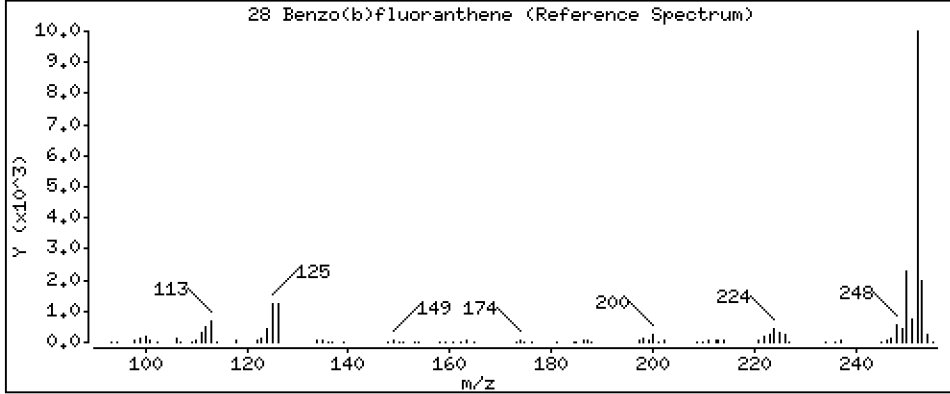
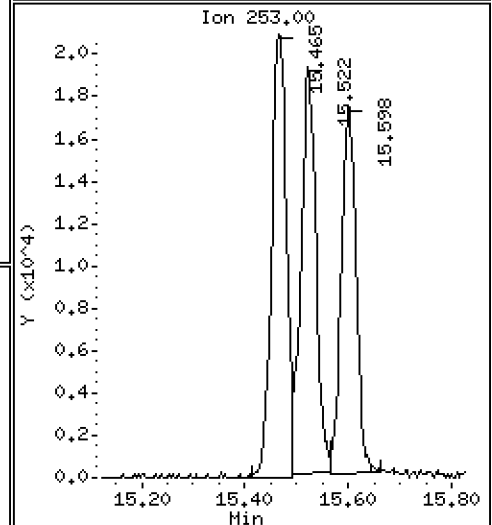
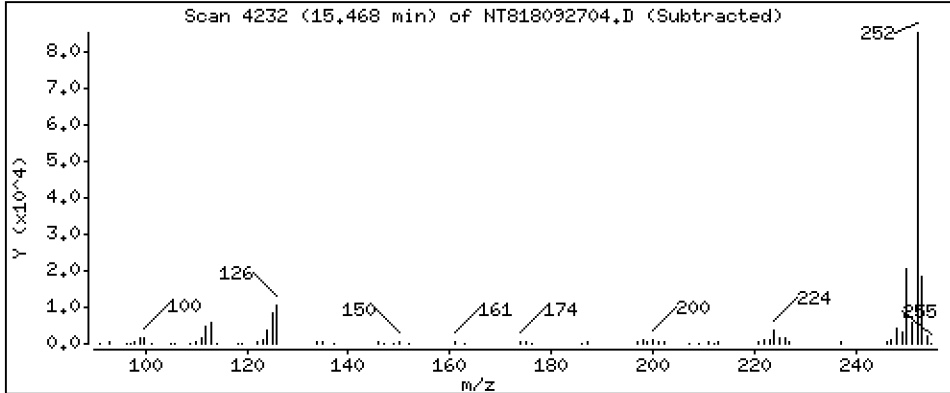
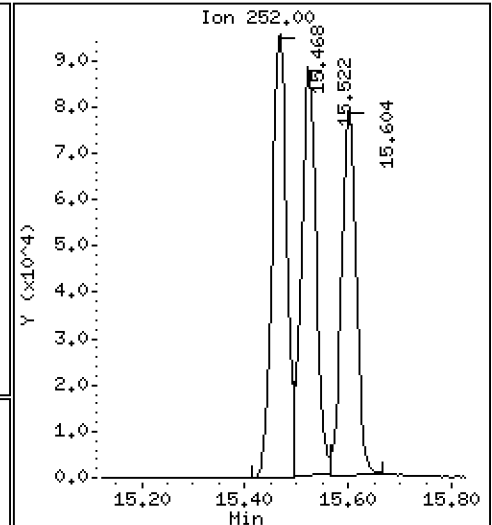
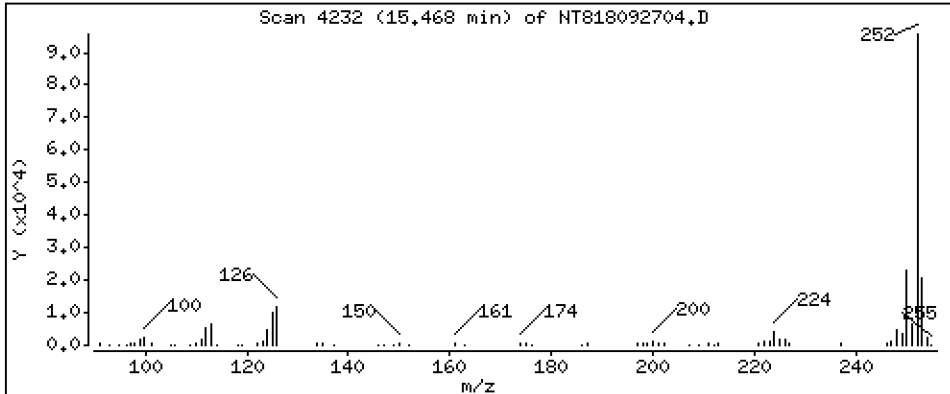
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 2,935 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

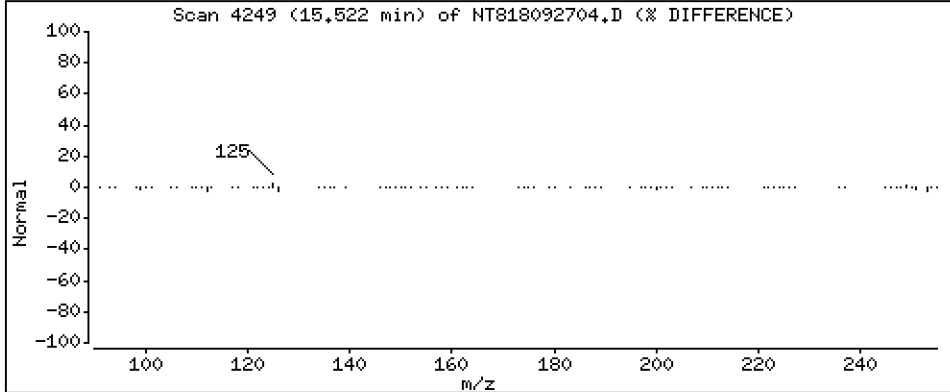
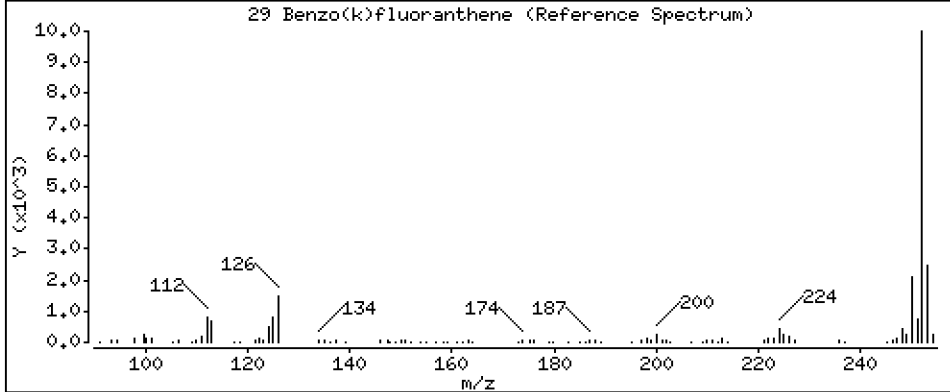
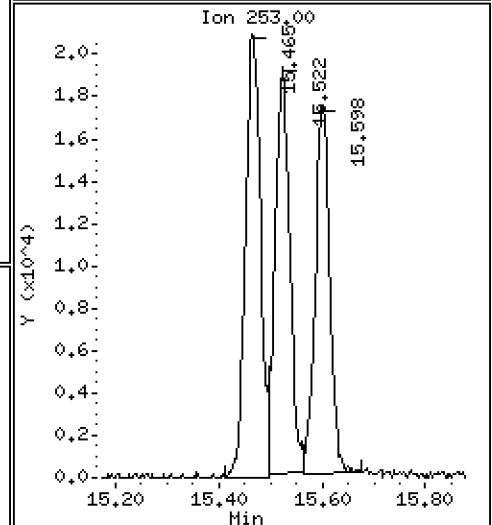
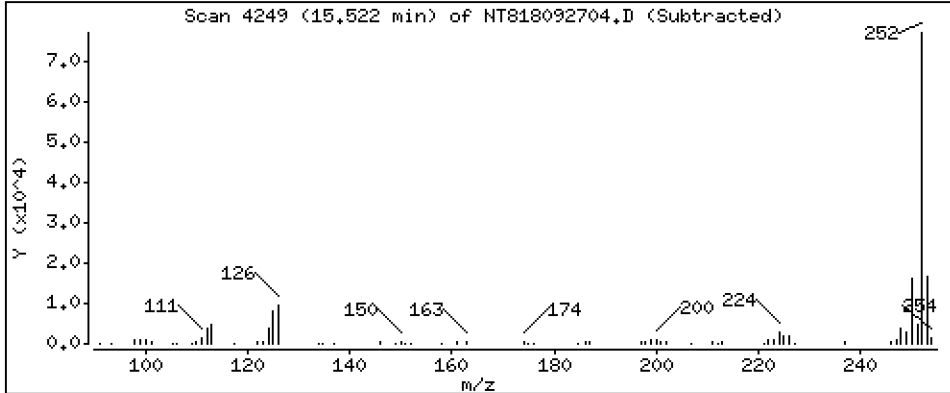
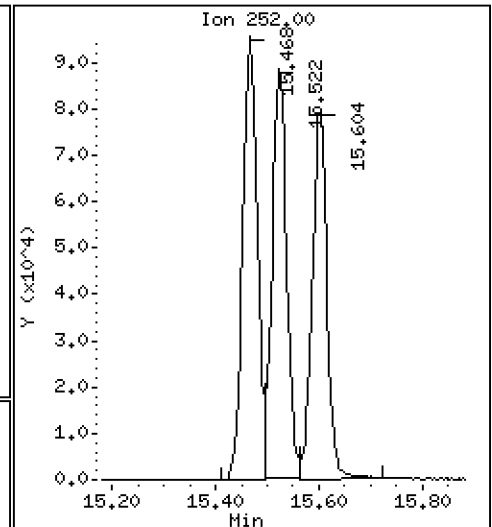
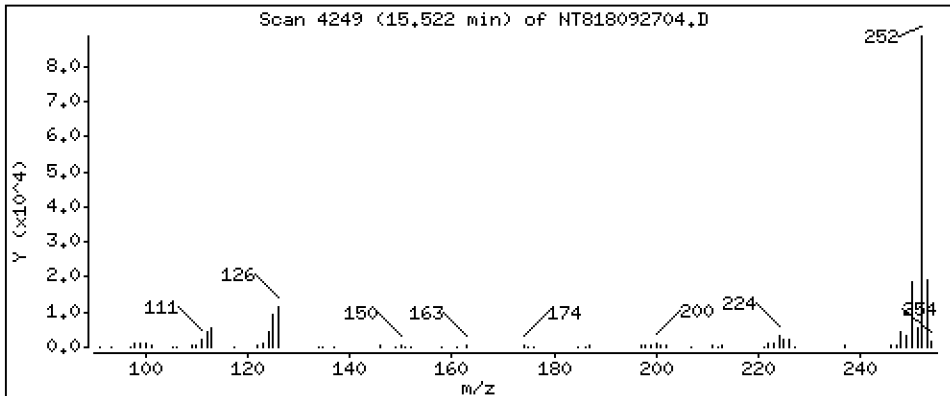
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 2,693 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

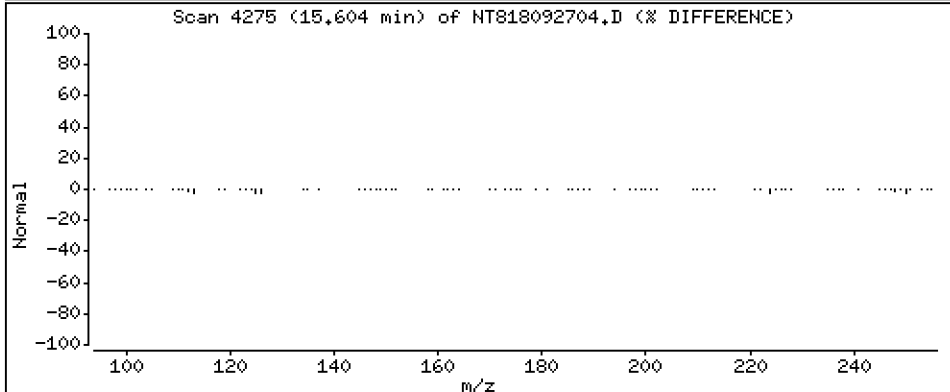
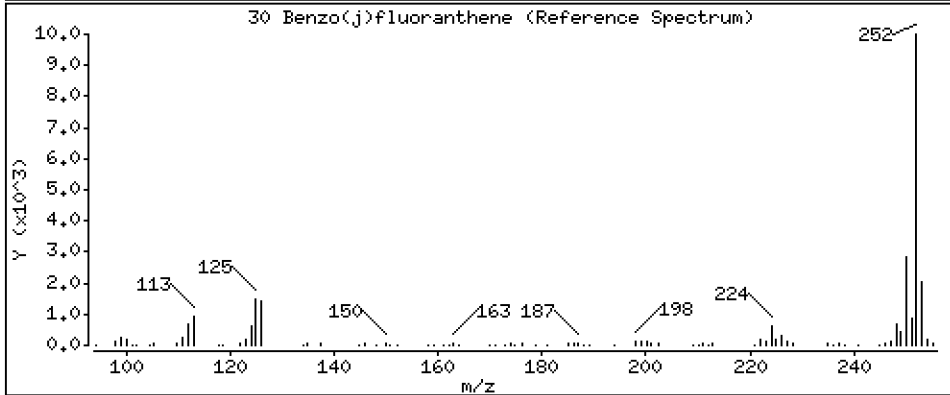
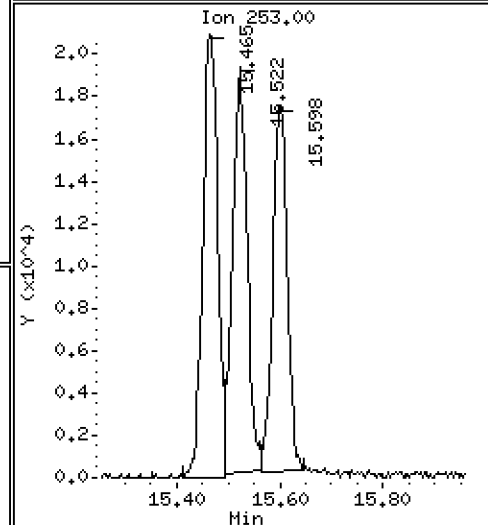
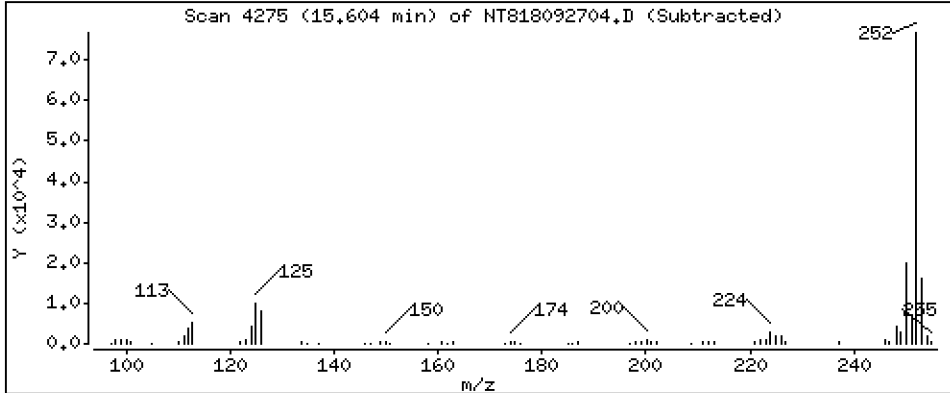
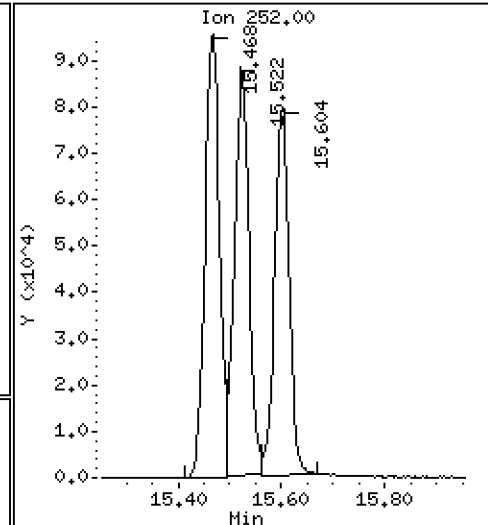
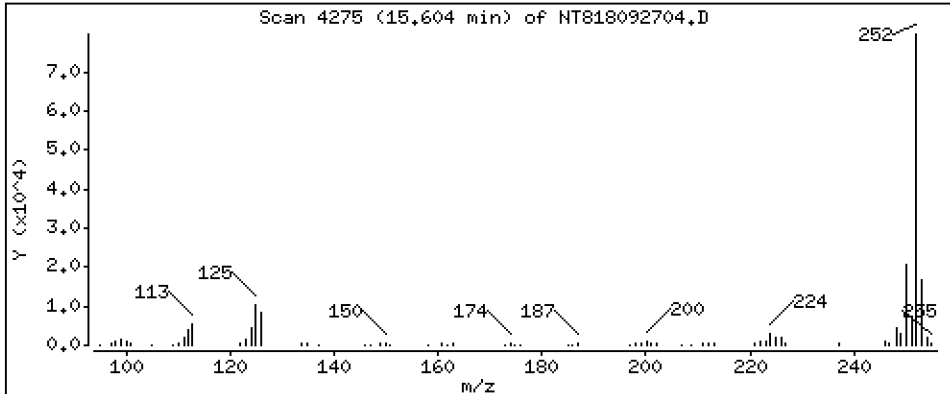
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 2,564 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

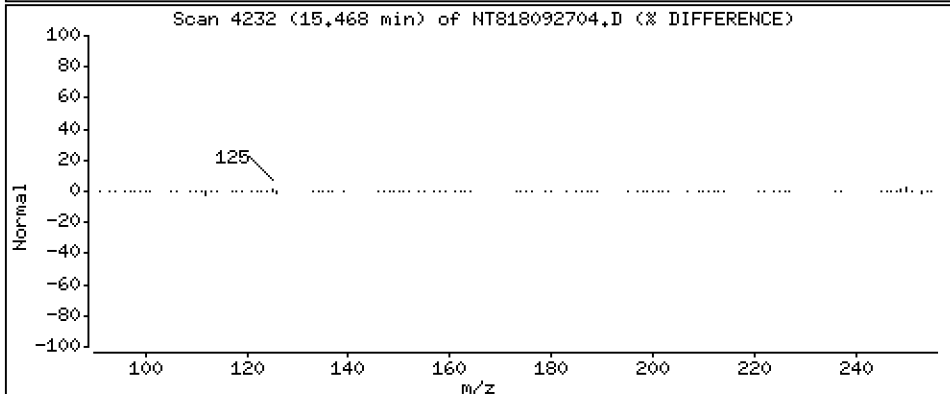
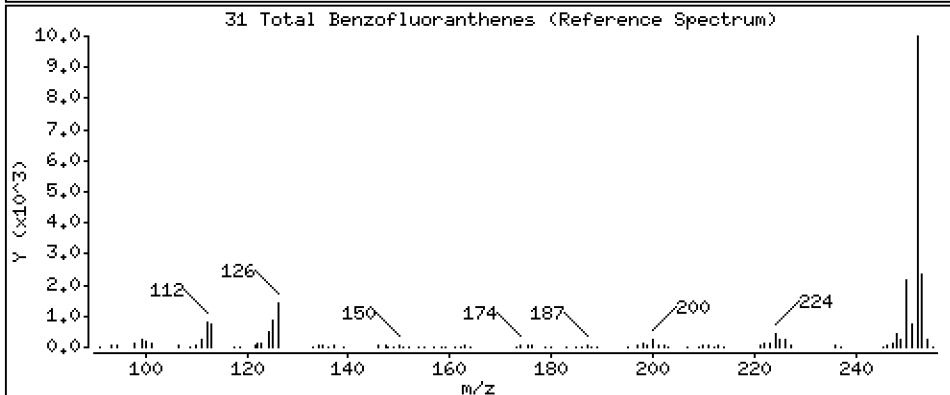
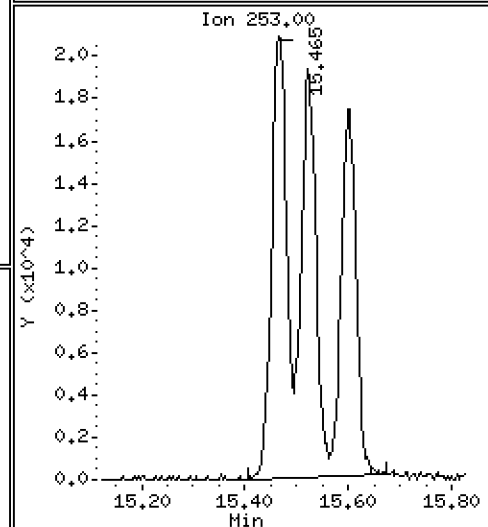
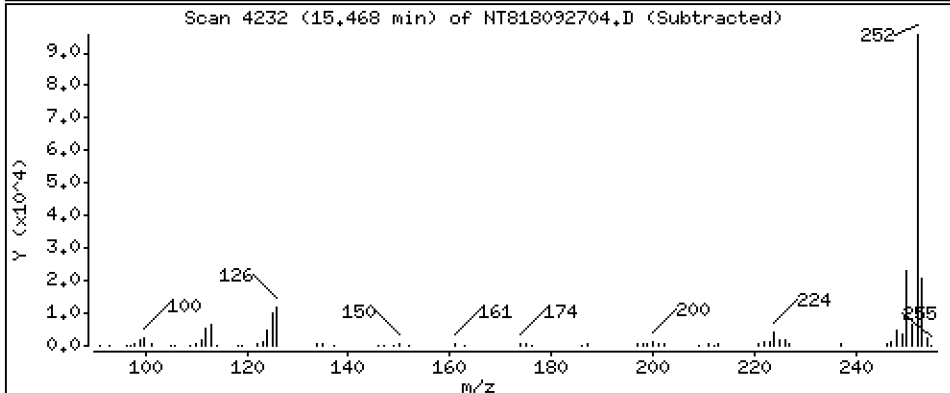
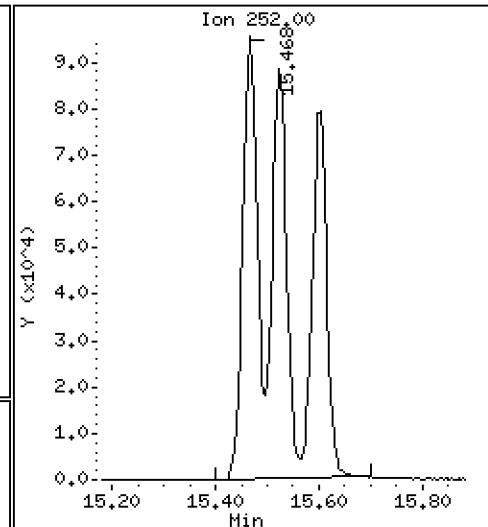
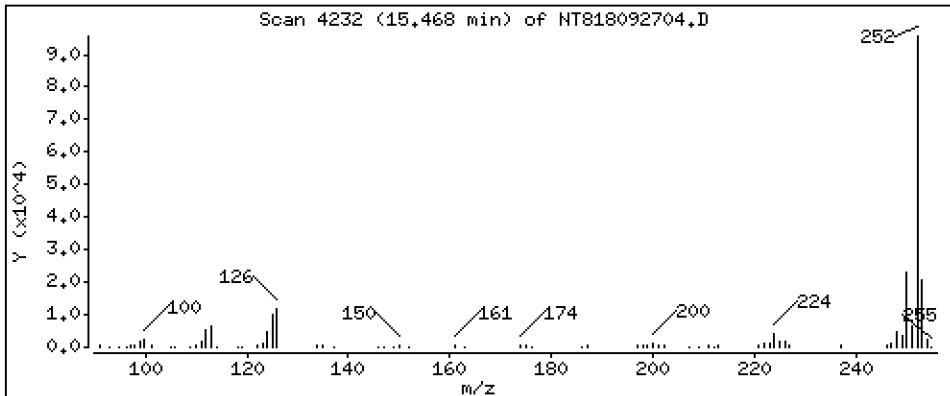
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 8,193 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

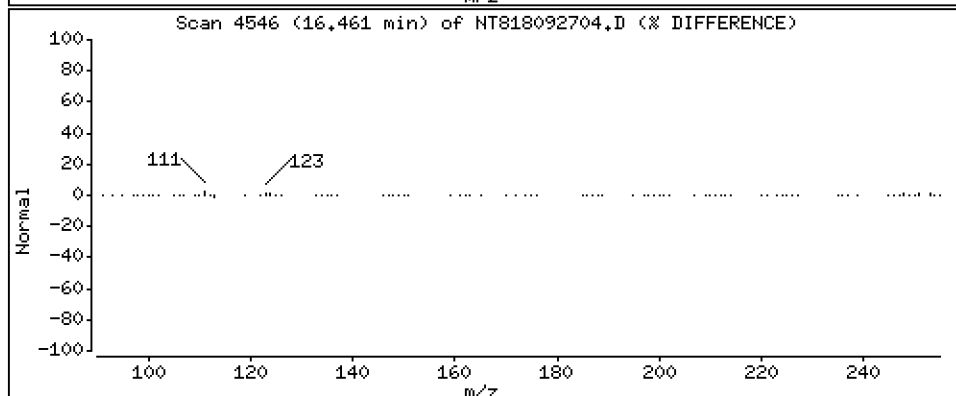
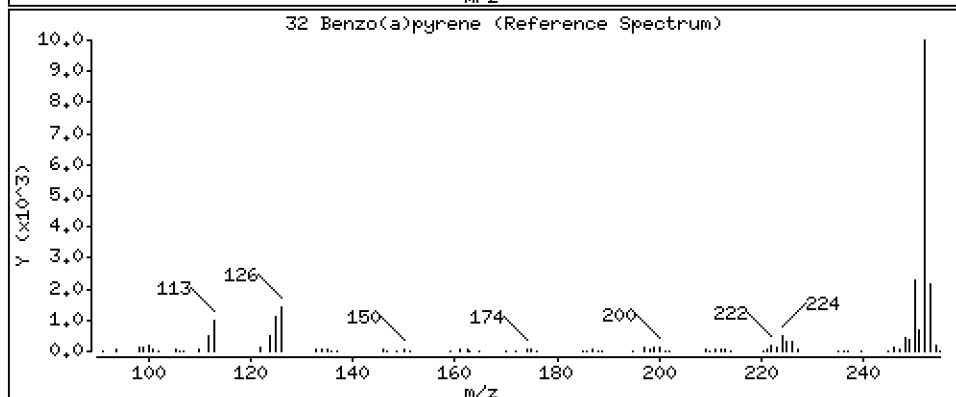
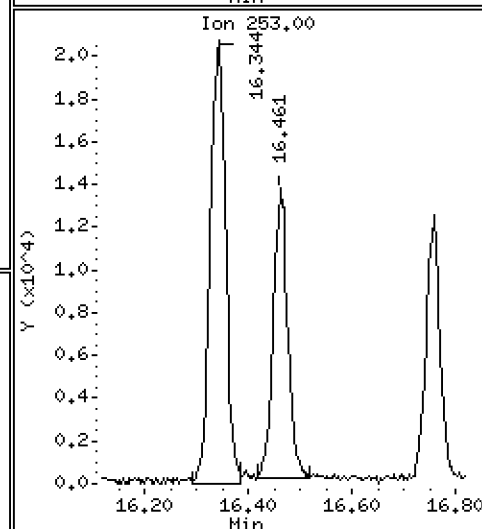
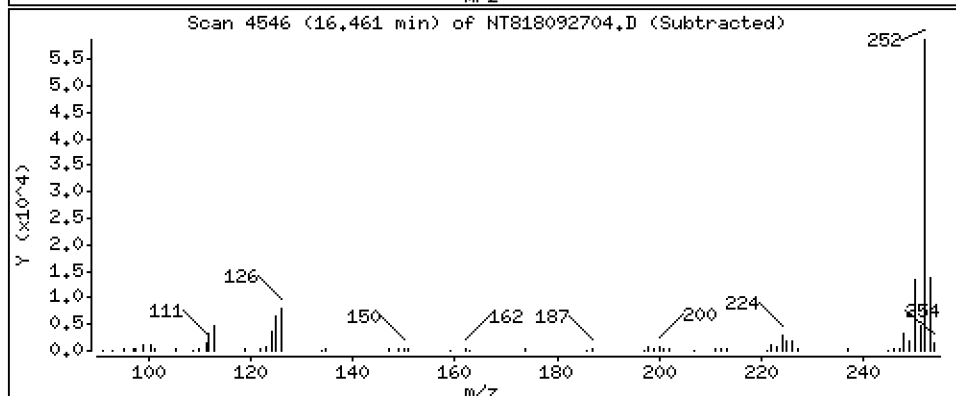
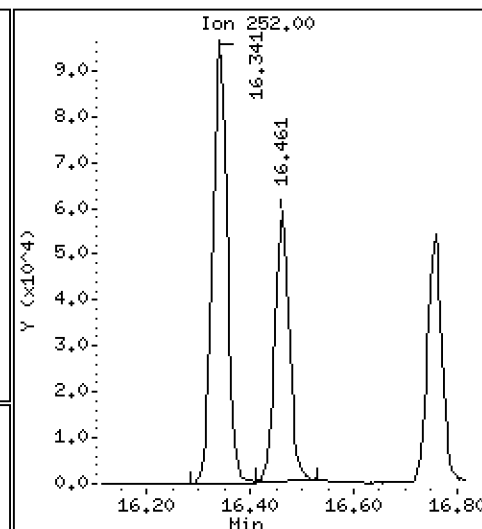
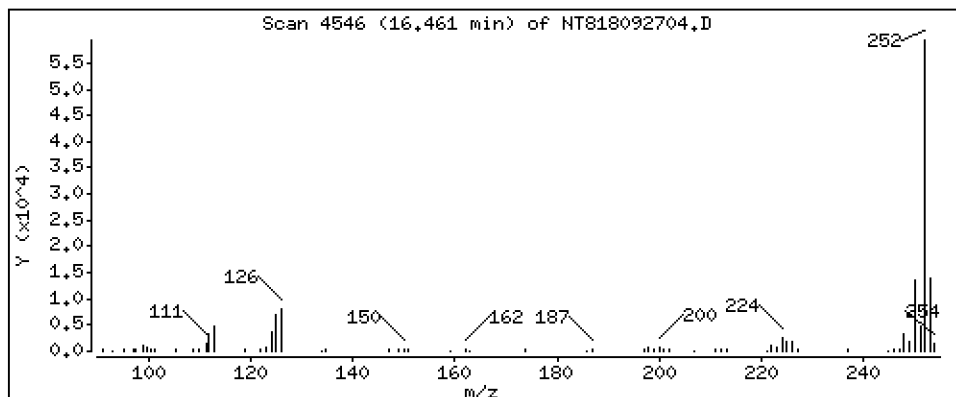
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 1,978 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

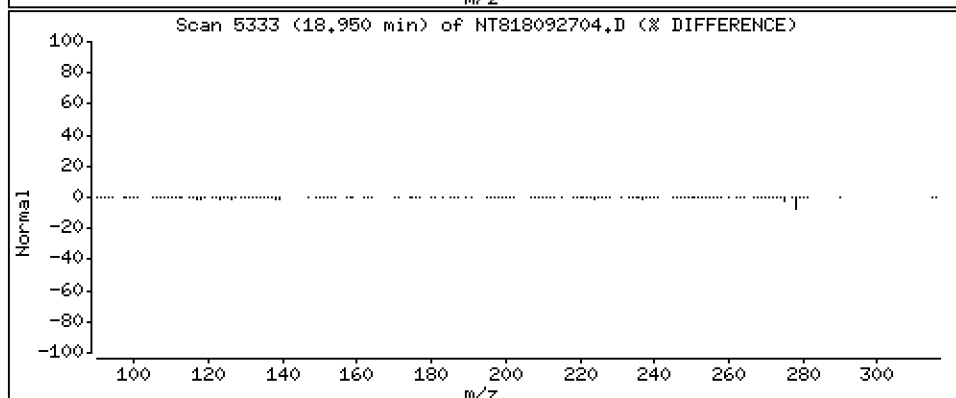
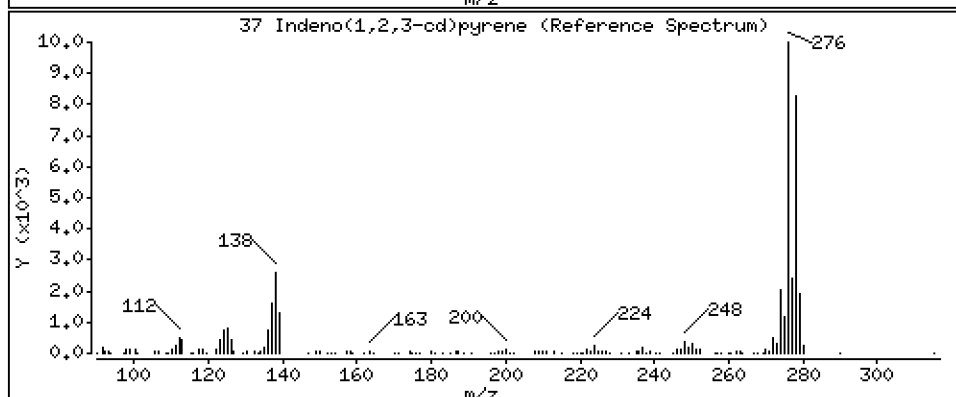
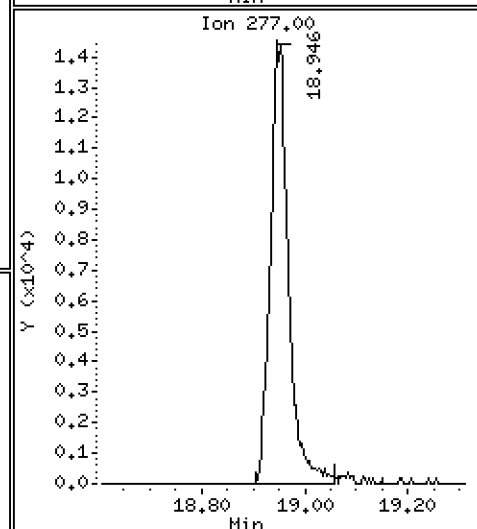
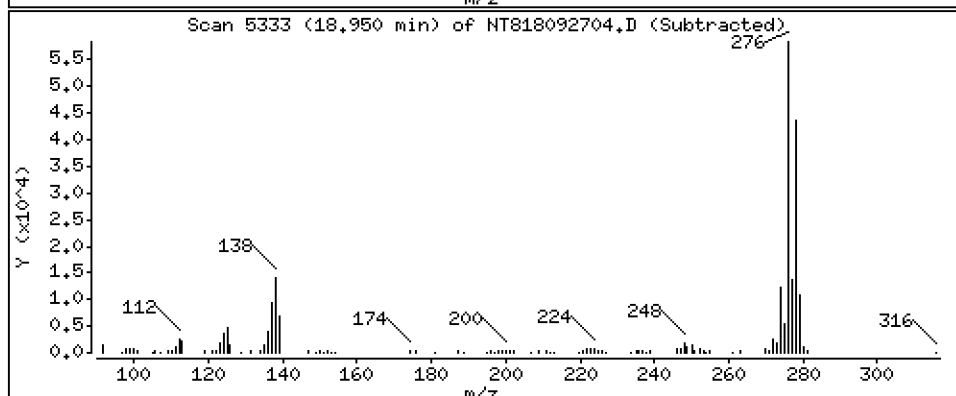
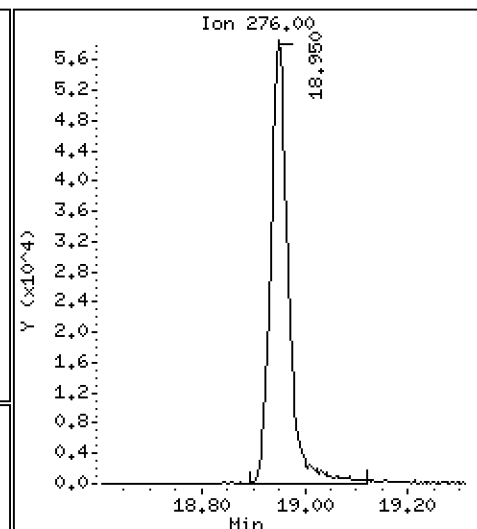
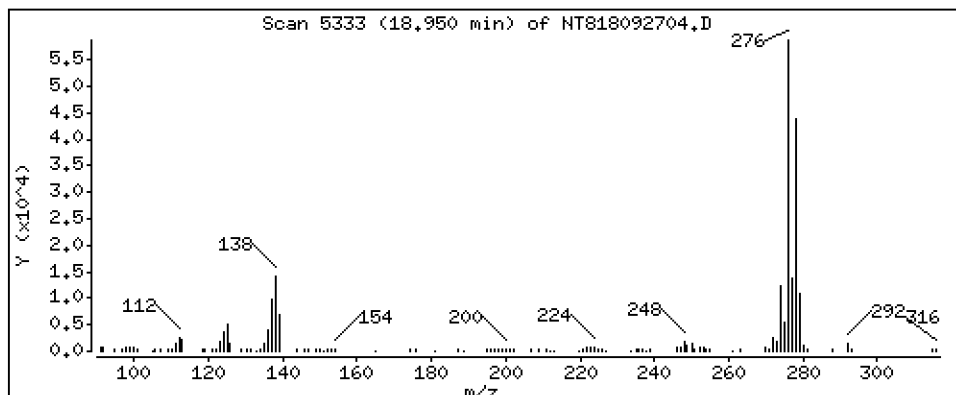
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 2,295 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

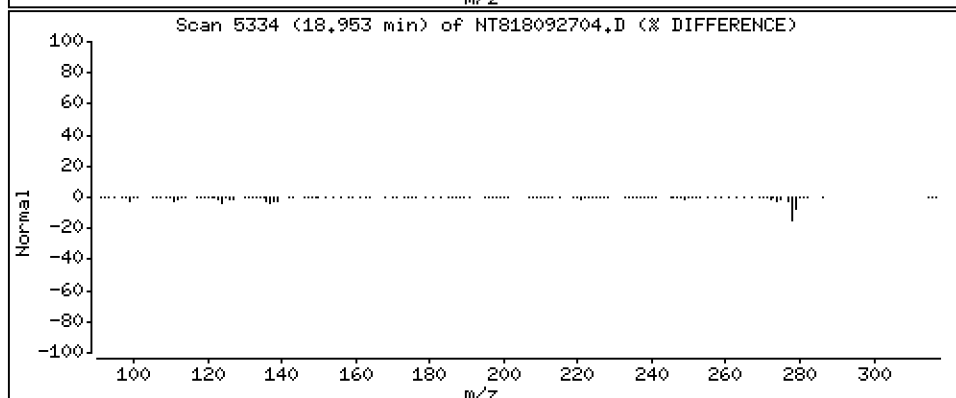
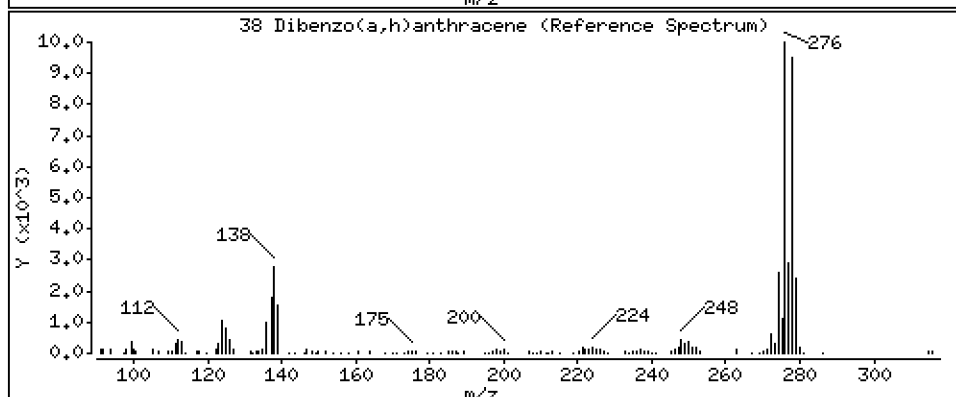
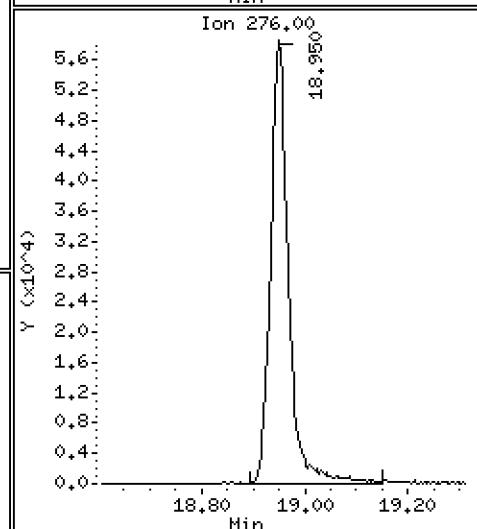
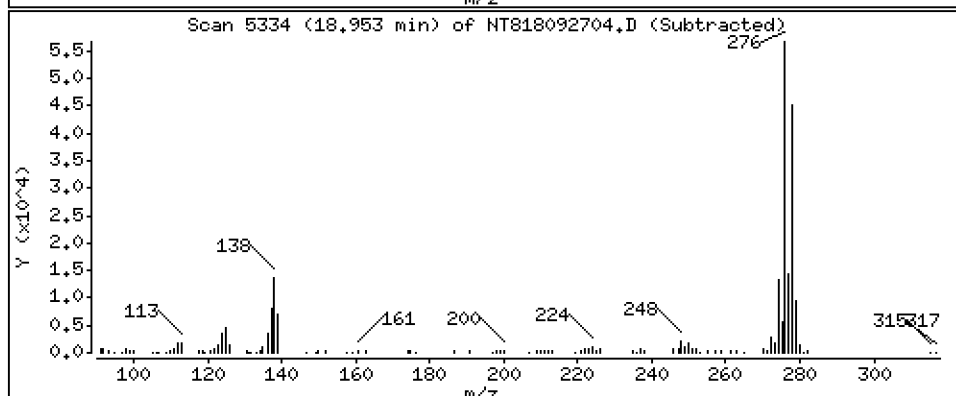
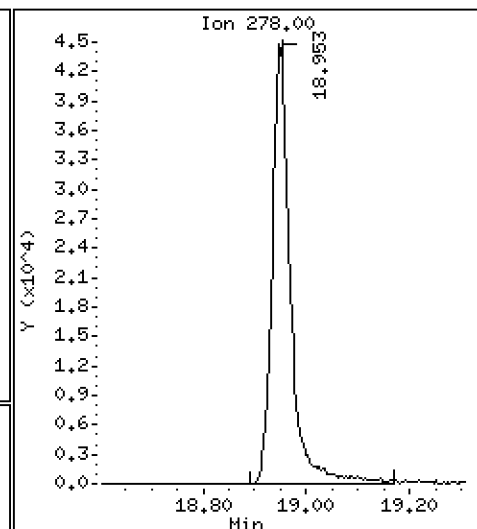
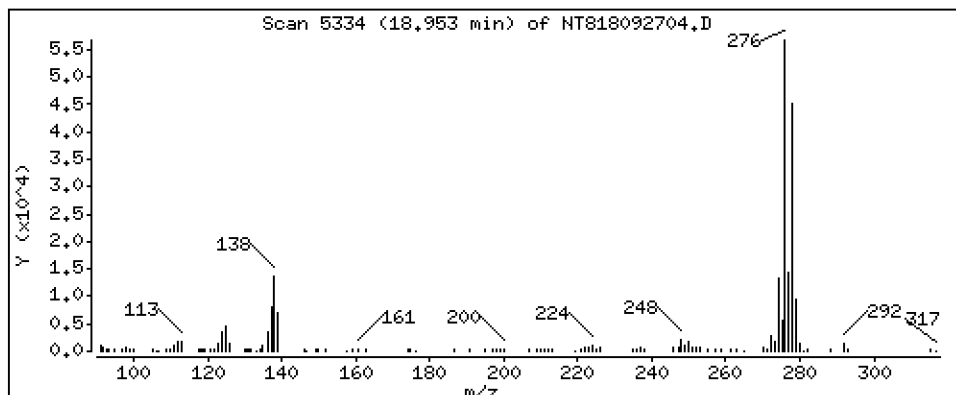
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 2,145 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

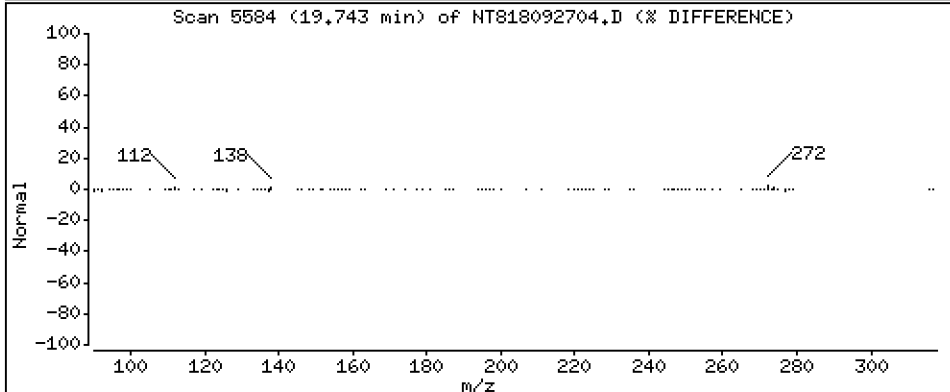
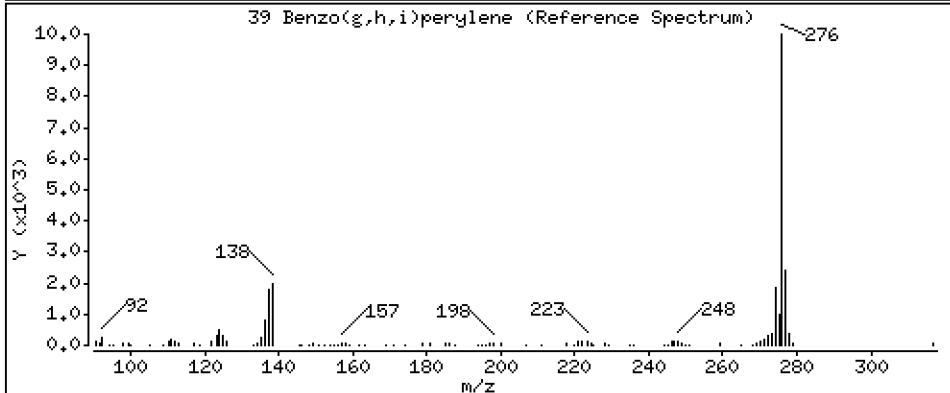
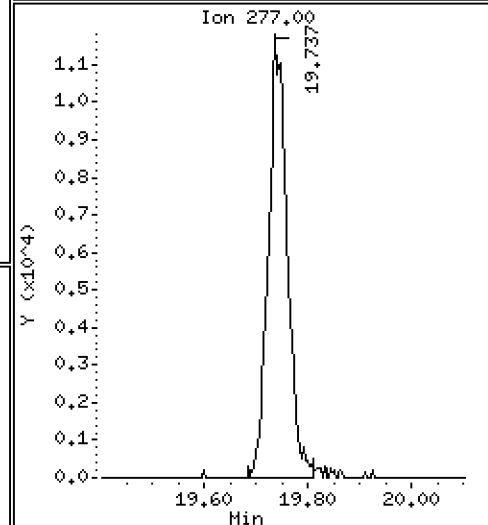
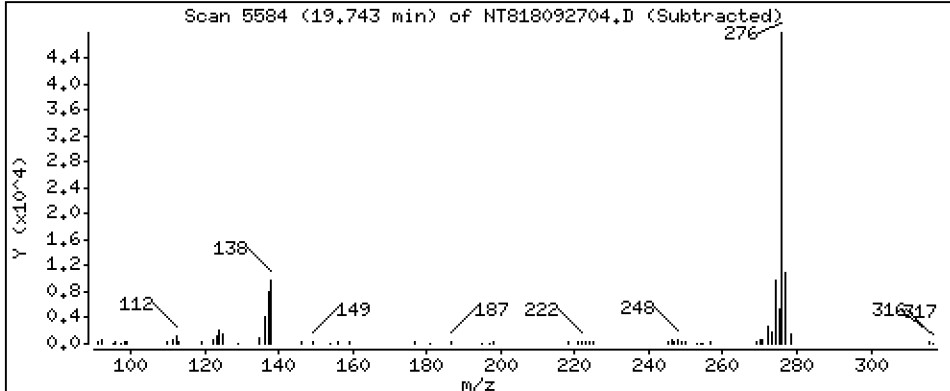
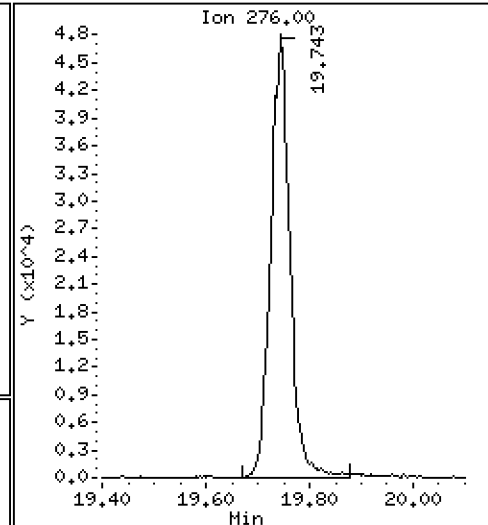
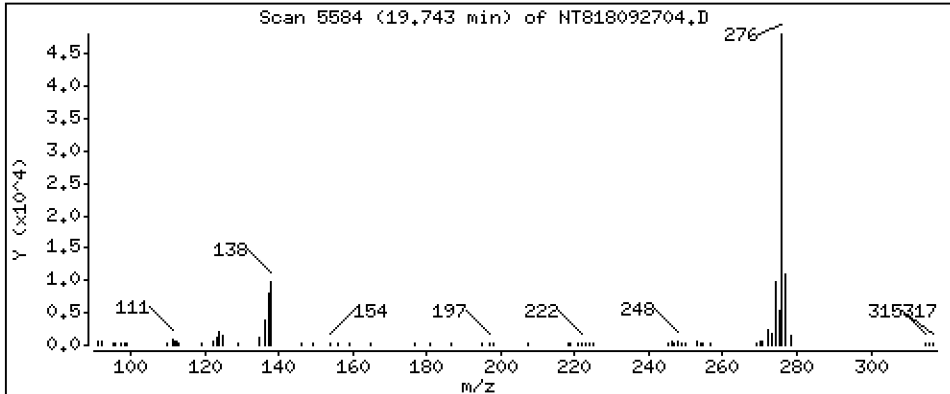
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 2,478 ug/mL



Date : 27-SEP-2018 13:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BS1.

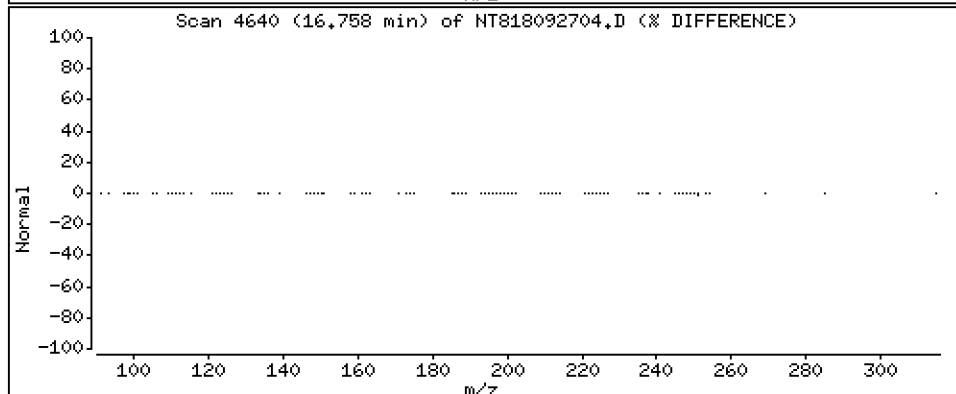
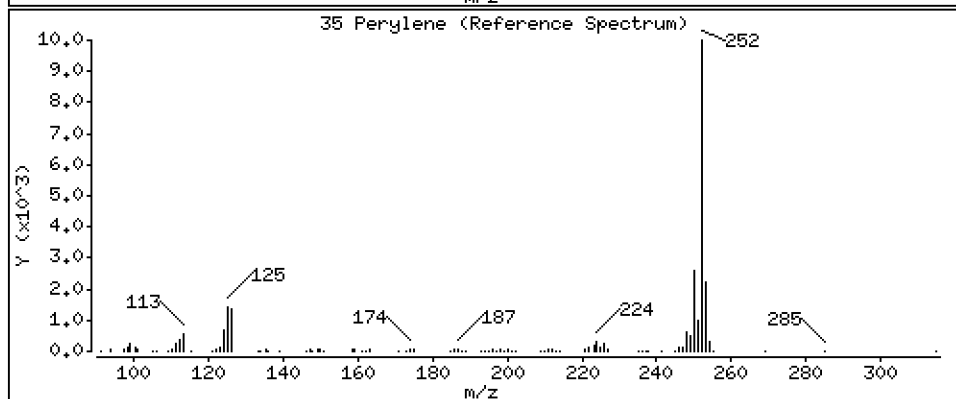
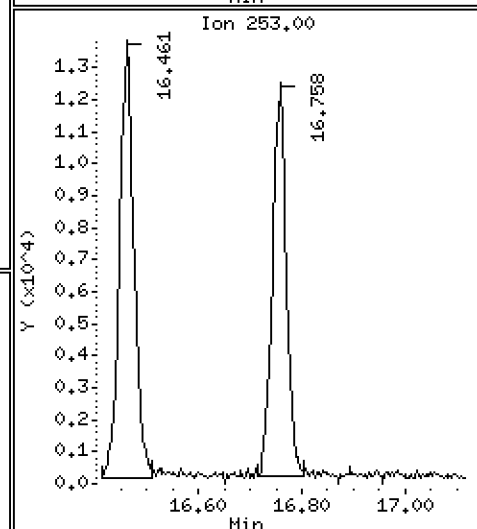
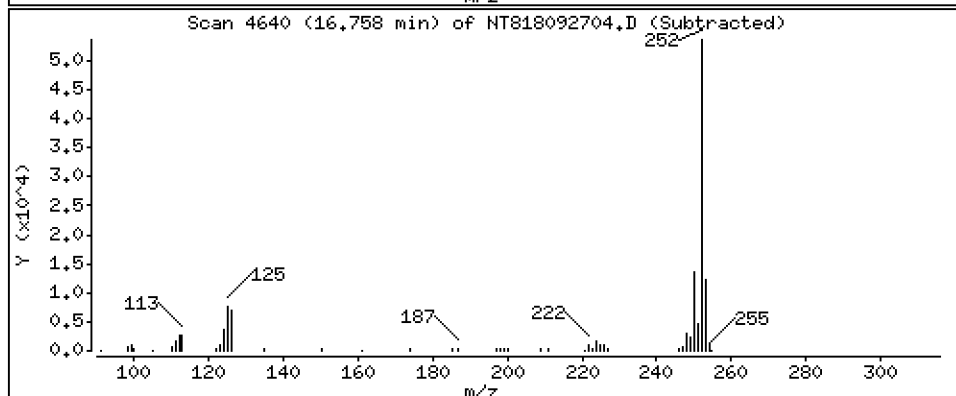
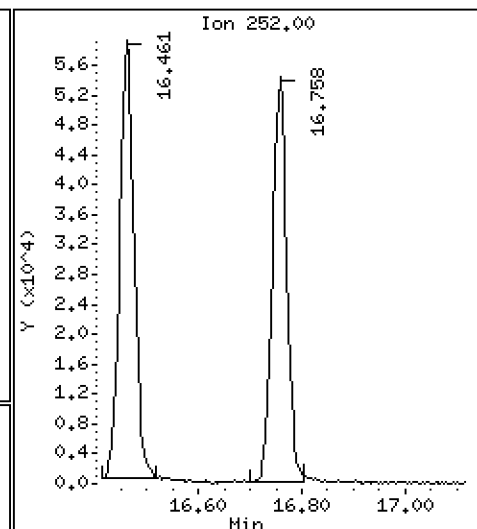
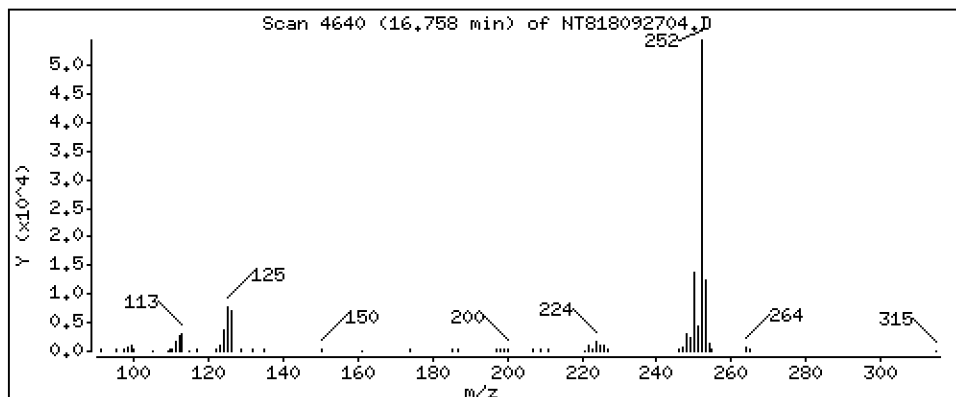
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 1,730 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180927.b\NT818092704.D
 Lab Smp Id: BGI0618-BS1
 Inj Date : 27-SEP-2018 13:35
 Operator : JZ Inst ID: nt8.i
 Smp Info : BGI0618-BS1,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Meth Date : 27-Sep-2018 14:12 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.322	4.331	(1.000)	147624	2.00000	
2 Naphthalene	128		4.347	4.360	(1.006)	144288	1.79335	1.793
\$ 3 2-Methylnaphthalene-d10	152		5.043	5.052	(1.167)	93230	1.78576	1.786
4 2-Methylnaphthalene	141		5.090	5.097	(1.178)	79946	1.77203	1.772
5 1-methylnaphthalene	141		5.283	5.290	(1.222)	84783	1.82528	1.825
9 Acenaphthylene	152		6.462	6.466	(0.983)	122796	1.51601	1.516
* 10 Acenaphthene-d10	164		6.573	6.576	(1.000)	76366	2.00000	
11 Acenaphthene	153		6.621	6.624	(1.007)	98860	1.81060	1.811
12 Dibenzofuran	168		6.769	6.772	(1.030)	143416	1.89610	1.896
14 Fluorene	166		7.237	7.244	(1.101)	113553	1.81262	1.813
* 15 Phenanthrene-d10	188		8.572	8.575	(1.000)	151131	2.00000	
16 Phenanthrene	178		8.606	8.610	(1.004)	178661	2.19200	2.192
17 Anthracene	178		8.644	8.648	(1.008)	155481	1.94840	1.948
22 Fluoranthene	202		10.216	10.222	(1.192)	217376	2.29389	2.294
\$ 21 Fluoranthene-d10	212		10.184	10.187	(1.188)	209929	2.19948	2.199
23 Pyrene	202		10.665	10.668	(0.819)	224527	2.32932	2.329
24 Benzo(a)anthracene	228		12.907	12.913	(0.991)	187709	2.01390	2.014
* 25 Chrysene-d12	240		13.024	13.027	(1.000)	162000	2.00000	
27 Chrysene	228		13.093	13.096	(1.005)	206532	2.34443	2.344
28 Benzo(b)fluoranthene	252		15.468	15.474	(0.927)	191351	2.93512	2.935
29 Benzo(k)fluoranthene	252		15.522	15.531	(0.930)	173852	2.69332	2.693
30 Benzo(j)fluoranthene	252		15.604	15.604	(0.935)	156903	2.56437	2.564
31 Total Benzofluoranthenes	252		15.468	15.531	(0.927)	518397	8.19272	8.193 (M)
32 Benzo(a)pyrene	252		16.461	16.464	(0.986)	116331	1.97810	1.978
* 33 Perylene-d12	264		16.688	16.695	(1.000)	104544	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.949	18.959	(1.135)	142167	2.29474	2.295
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.870	18.873	(1.131)	97839	2.08617	2.086
38 Dibenzo(a,h)anthracene	278		18.952	18.956	(1.136)	111922	2.14504	2.145
39 Benzo(g,h,i)perylene	276		19.743	19.749	(1.183)	124779	2.47780	2.478
35 Perylene	252		16.758	16.764	(1.004)	104955	1.72999	1.730

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 27-SEP-2018
 Lab File ID: NT818092704.D Calibration Time: 10:58
 Lab Smp Id: BGI0618-BS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	147624	11.94
10 Acenaphthene-d10	72272	36136	144544	76366	5.66
15 Phenanthrene-d10	156058	78029	312116	151131	-3.16
25 Chrysene-d12	174389	87195	348778	162000	-7.10
33 Perylene-d12	150701	75351	301402	104544	-30.63

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.33	3.83	4.83	4.32	-0.22
10 Acenaphthene-d10	6.58	6.08	7.08	6.57	-0.05
15 Phenanthrene-d10	8.58	8.08	9.08	8.57	-0.04
25 Chrysene-d12	13.03	12.53	13.53	13.02	-0.03
33 Perylene-d12	16.70	16.20	17.20	16.69	-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.

cgal: //target/share/chem3/nt8.i/20180927.b/NT818092702.D
REVIEW SUMMARY FOR FILE - NT818092704.D

Lab ID: BGI0618-BS1
nt8.i, 20180927.b\FSIMPNA180803.m, 27-SEP-2018 13:35

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.983	1.221	-0.2380	1-methylnaphthalene
1.007	1.332	-0.3249	2-Chloronaphthalene
1.030	0.875	0.1548	Biphenyl
1.101	0.880	0.2207	2,6-Dimethylnaphthalene
1.004	0.983	0.0209	Acenaphthylene
1.192	1.030	0.1620	Dibenzofuran
0.819	1.041	-0.2220	1,6,7-Trimethylnaphthalene
0.991	1.101	-0.1104	Fluorene
1.005	0.986	0.0197	Dibenzothiophene
0.927	1.004	-0.0772	Phenanthrene
0.930	1.008	-0.0784	Anthracene
0.935	1.068	-0.1332	Carbazole
0.986	1.091	-0.1044	1-Methylphenanthrene
1.135	1.192	-0.0566	Fluoranthene
1.136	0.819	0.3167	Pyrene
1.183	0.991	0.1918	Benzo(a)anthracene
1.222	1.005	0.2170	Chrysene
1.004	0.930	0.0739	Benzo(k)fluoranthene
1.000	0.935	0.0654	Benzo(j)fluoranthene
1.000	0.930	0.0697	Total Benzofluoranthenes
1.000	0.979	0.0208	Benzo(e)pyrene
1.000	0.986	0.0138	Benzo(a)pyrene
1.167	1.136	0.0312	Indeno(1,2,3-cd)pyrene
1.188	1.183	0.0052	Benzo(g,h,i)perylene
0.000	1.000	-1.0000	Naphthalene-d8
0.000	1.000	-1.0000	Acenaphthene-d10
0.000	1.000	-1.0000	Phenanthrene-d10
0.000	1.000	-1.0000	Chrysene-d12
0.000	1.000	-1.0000	Perylene-d12
0.000	1.166	-1.1664	2-Methylnaphthalene-d10
0.000	1.188	-1.1881	Fluoranthene-d10
0.000	1.130	-1.1305	Dibenzo(a,h)anthracene-d14

RRT check based on Cgal File: NT818092702.D

On Column LOD for nt8.i, 20180927.b\FSIMPNA180803.m, pnax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

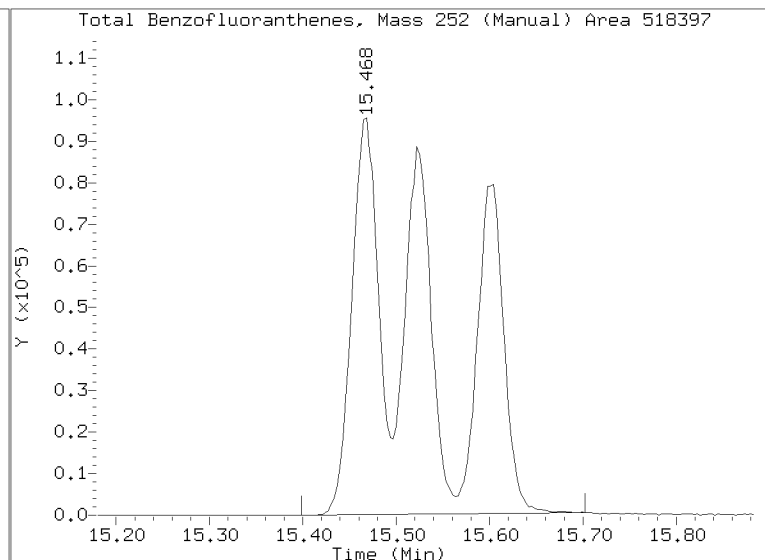
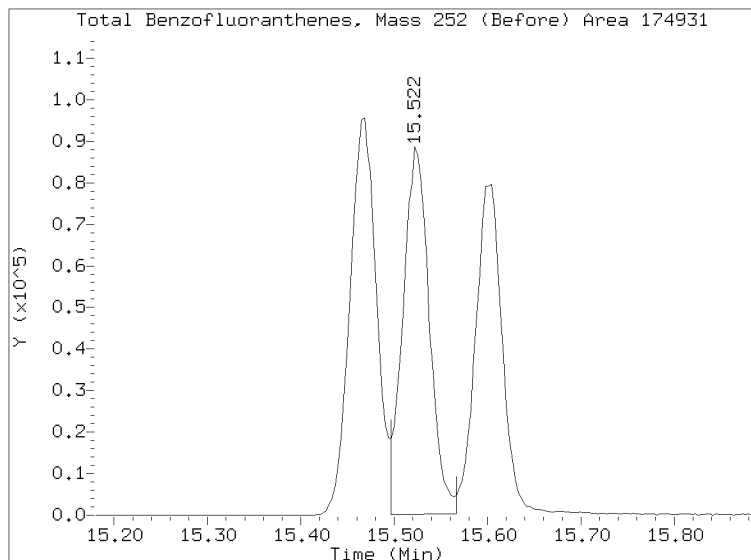
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180927.b/NT818092704.D

Injection Date: 27-SEP-2018 13:35

Lab ID: BGI0618-BS1 Client ID:

Report Date: 09/27/2018 14:38



Data File: \\target\share\chem3\nt8.1\20180927.B\NT818092705.D

Date: 27-SEP-2018 14:02

Client ID:

Sample Info: BQ10618-BSM,

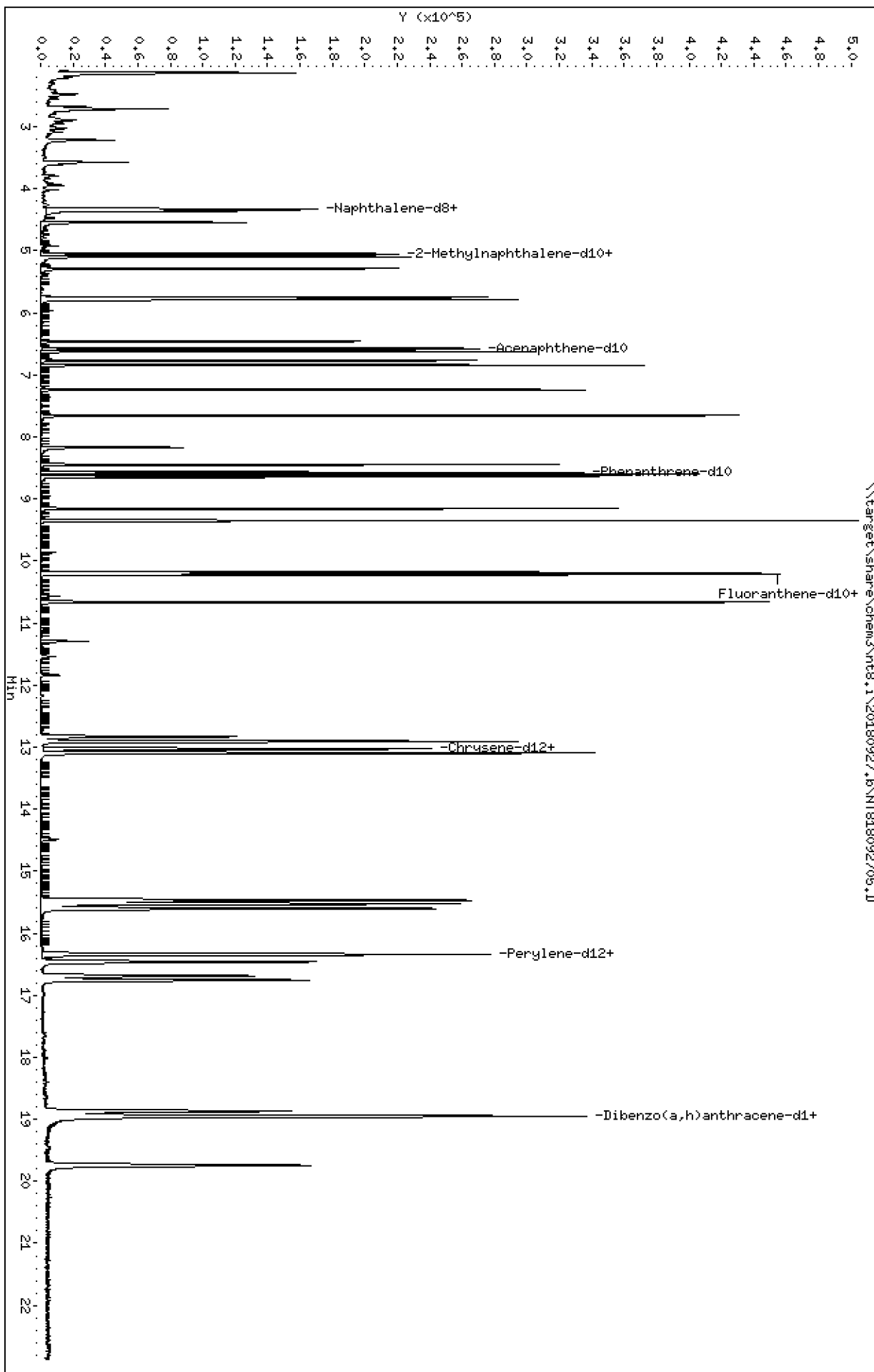
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

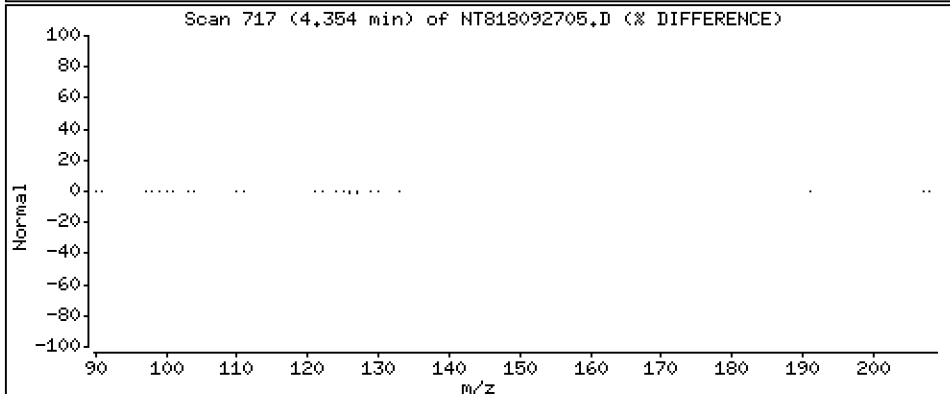
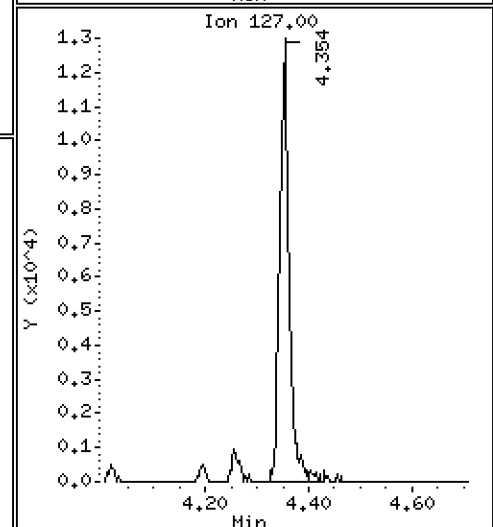
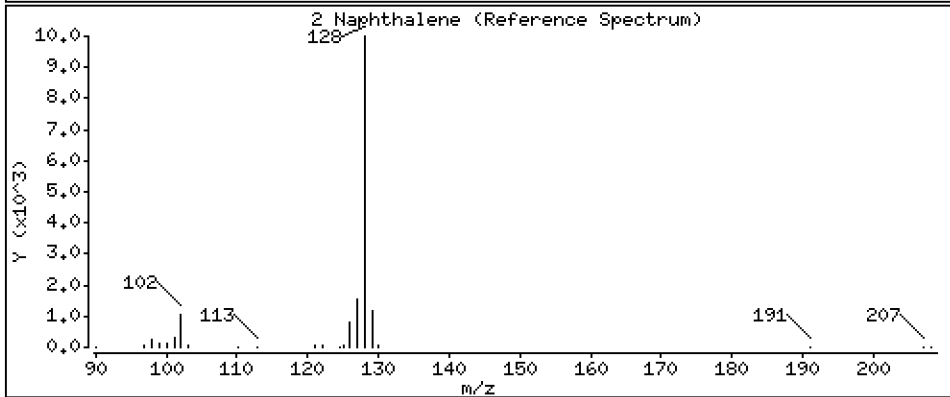
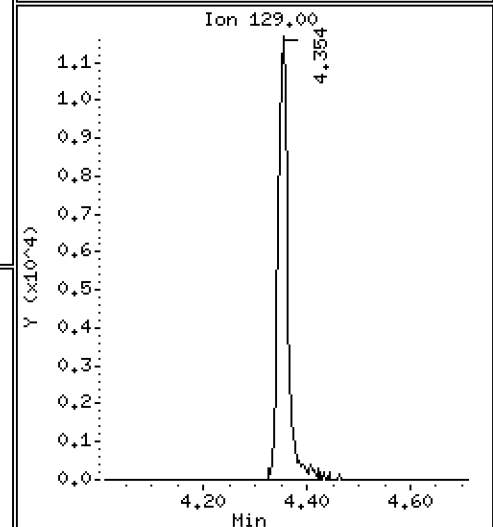
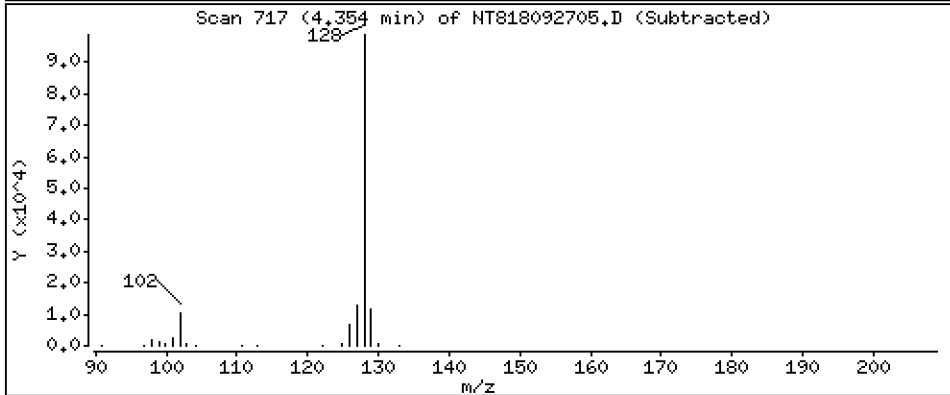
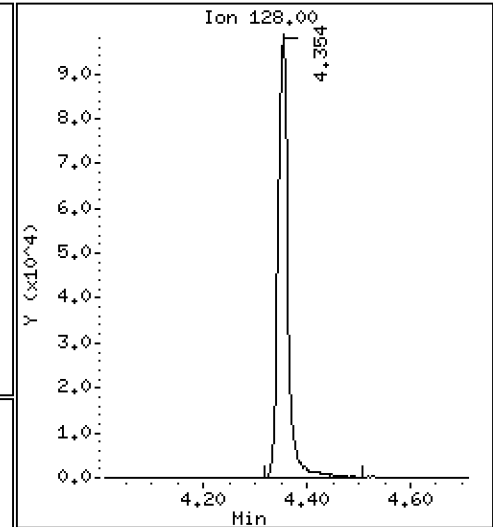
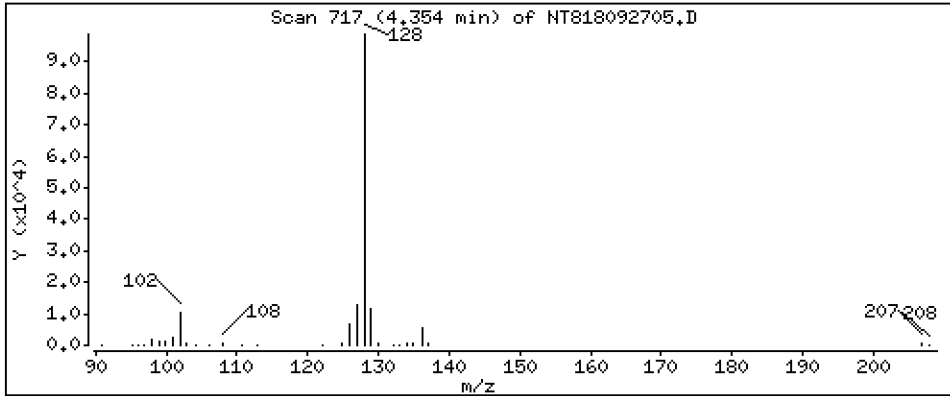
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

2 Naphthalene

Concentration: 1,667 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

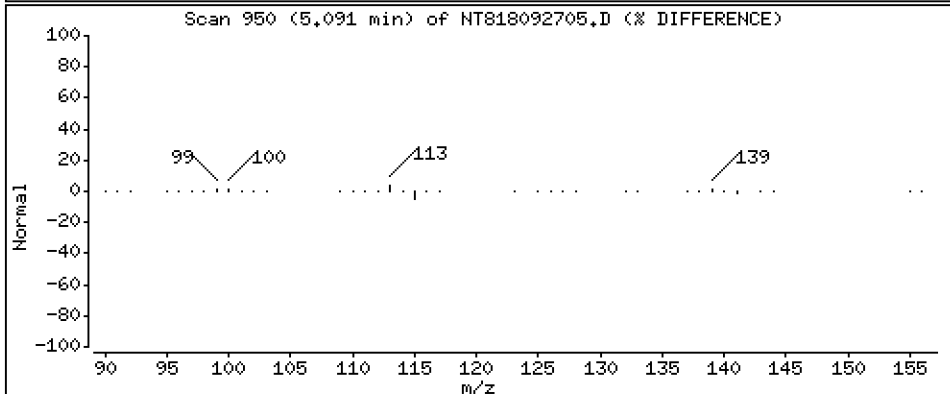
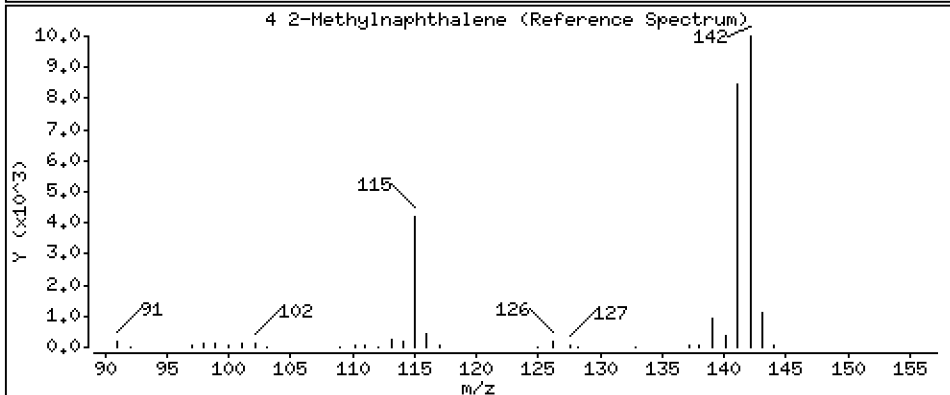
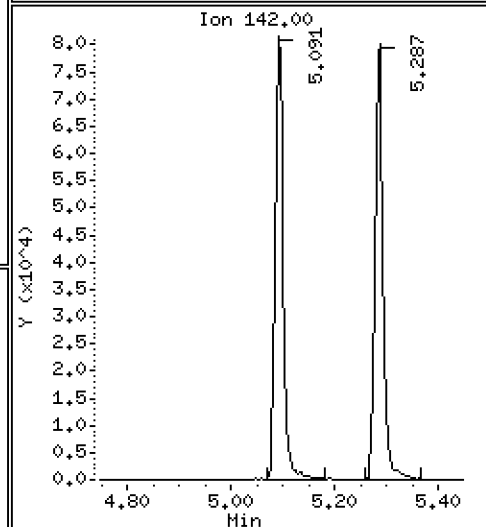
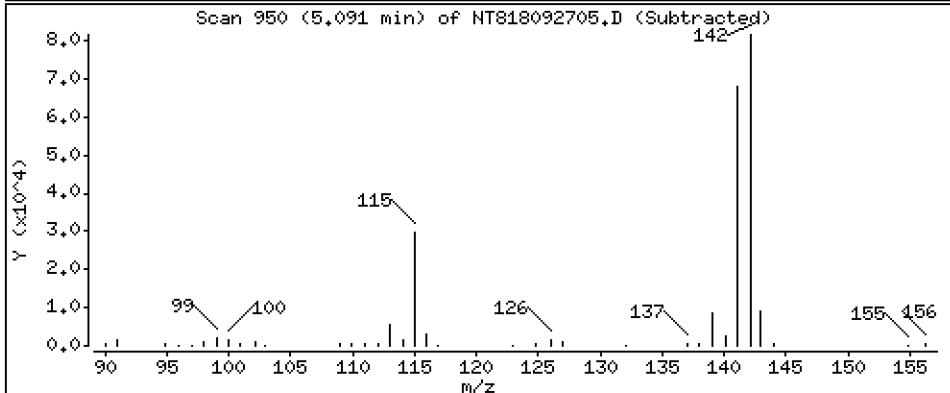
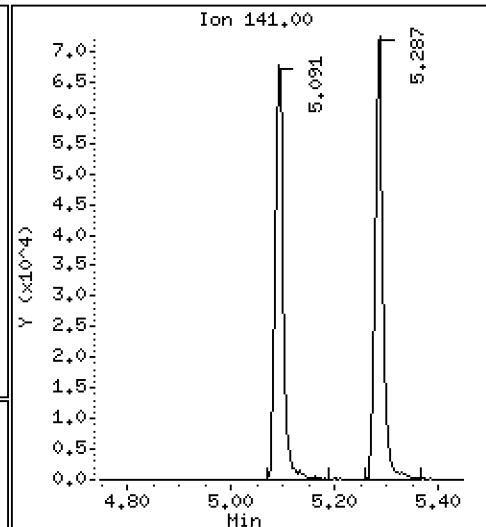
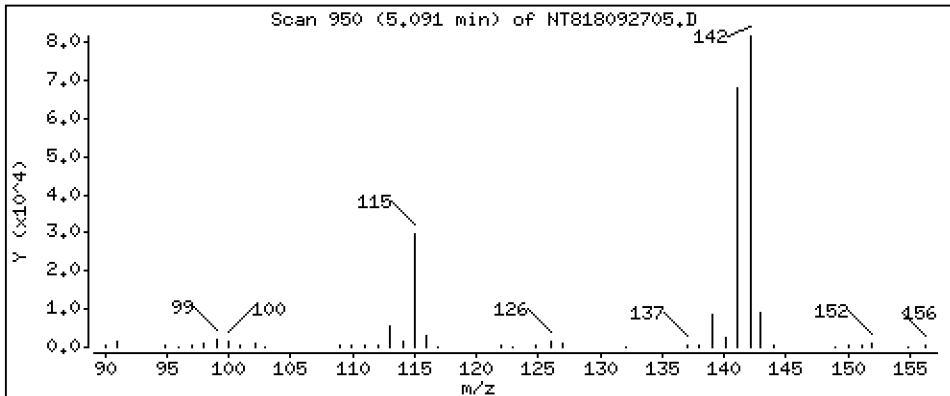
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4-Methylnaphthalene

Concentration: 1.680 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

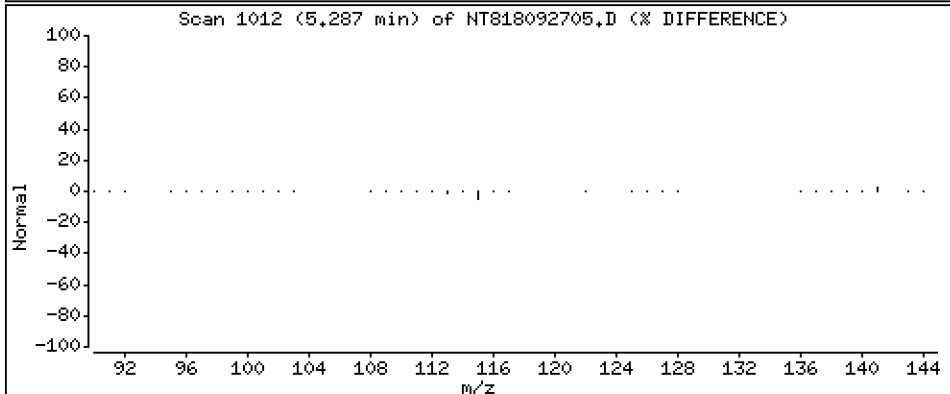
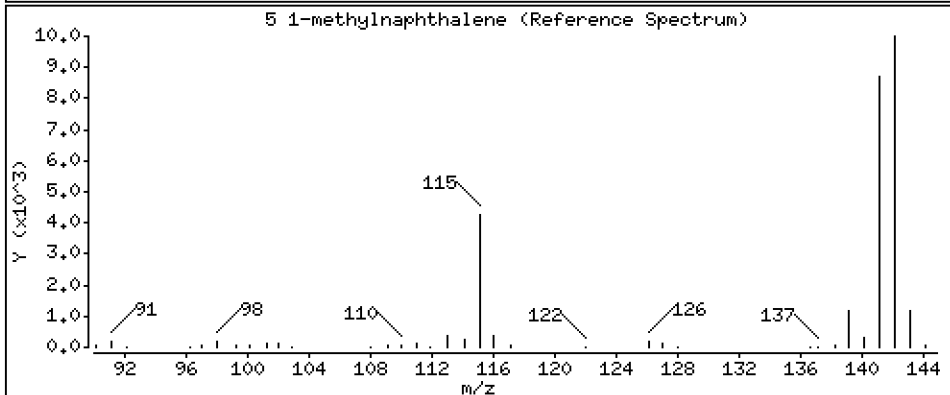
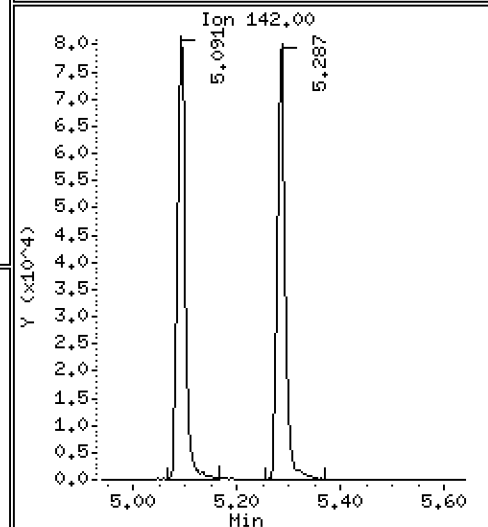
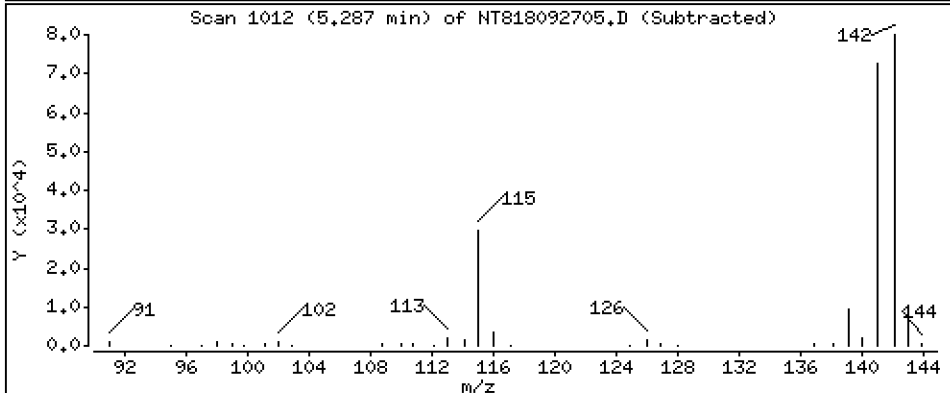
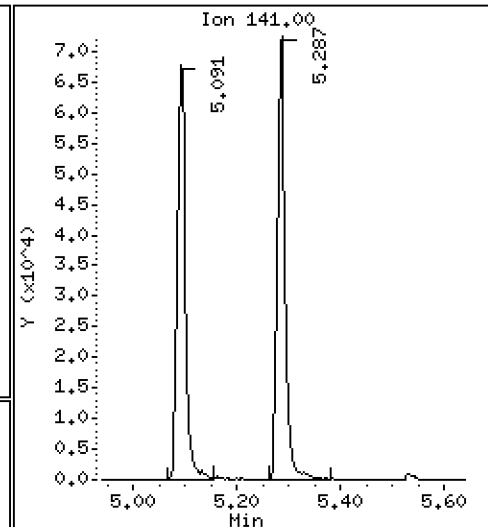
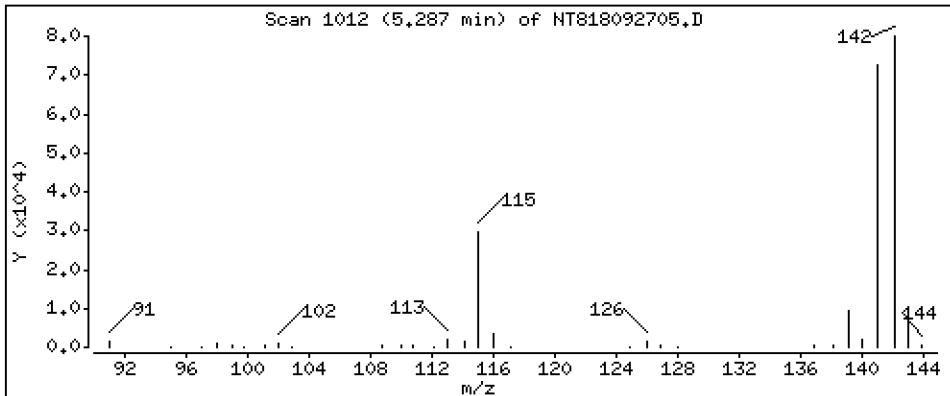
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

5 1-methylnaphthalene

Concentration: 1,700 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

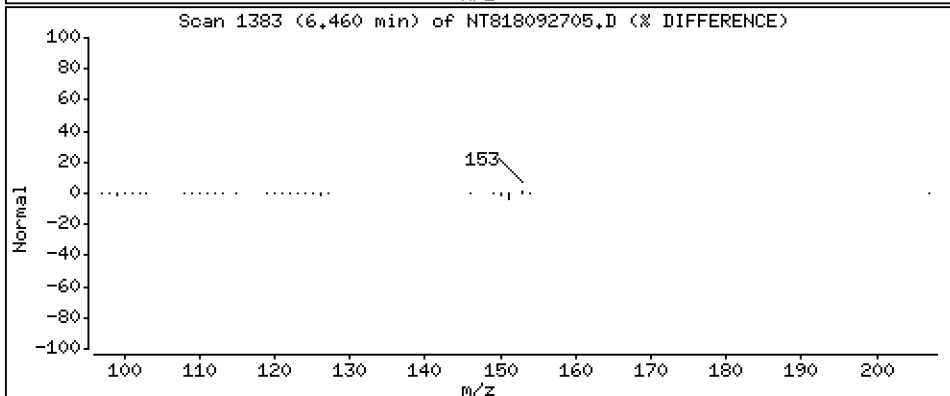
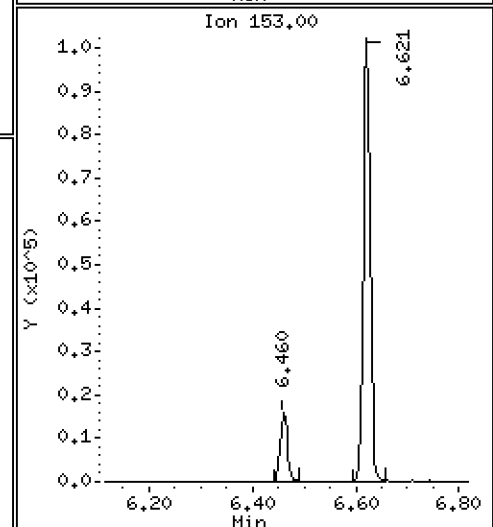
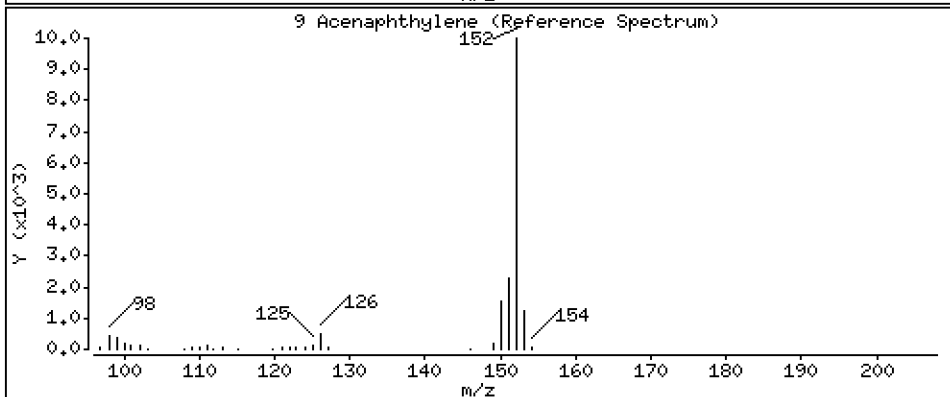
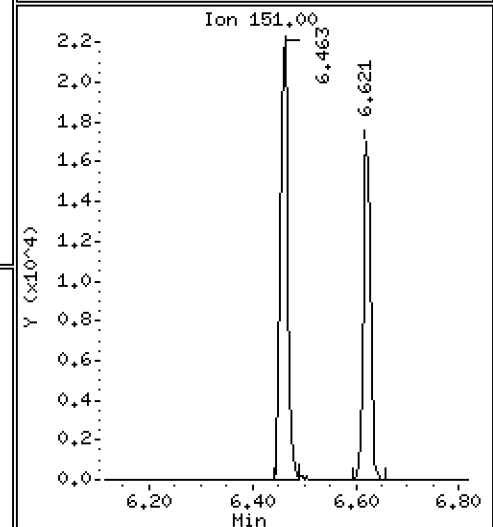
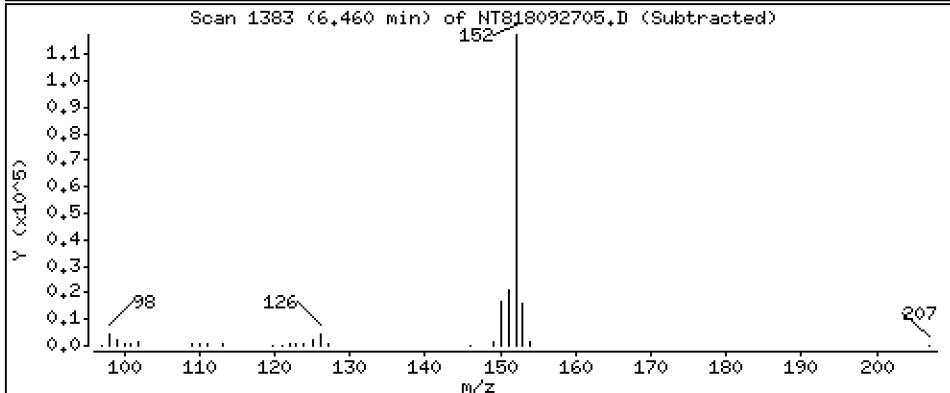
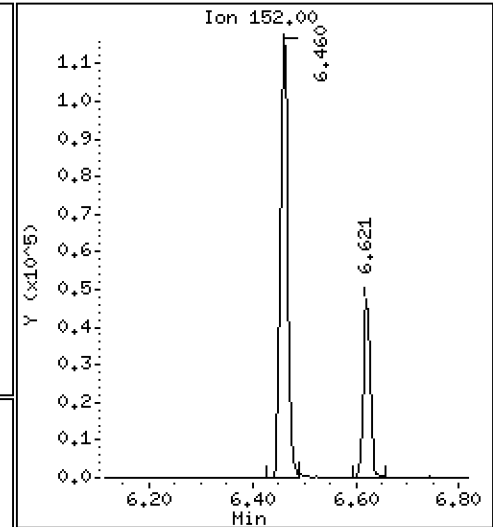
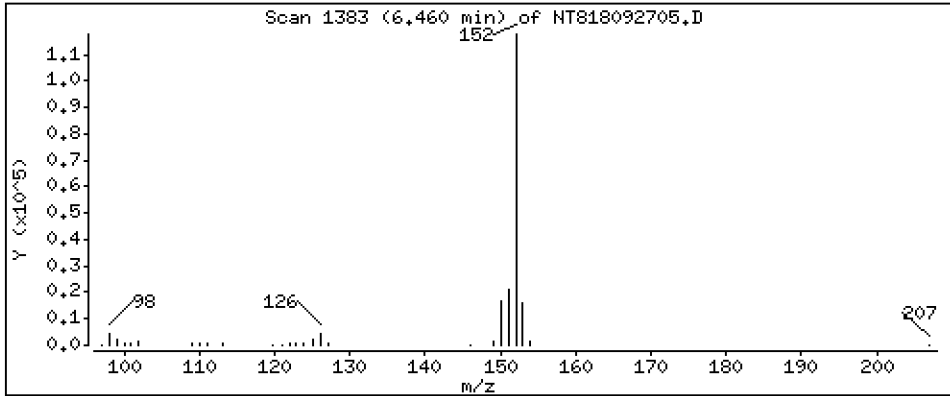
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

9 Acenaphthylene

Concentration: 1.433 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

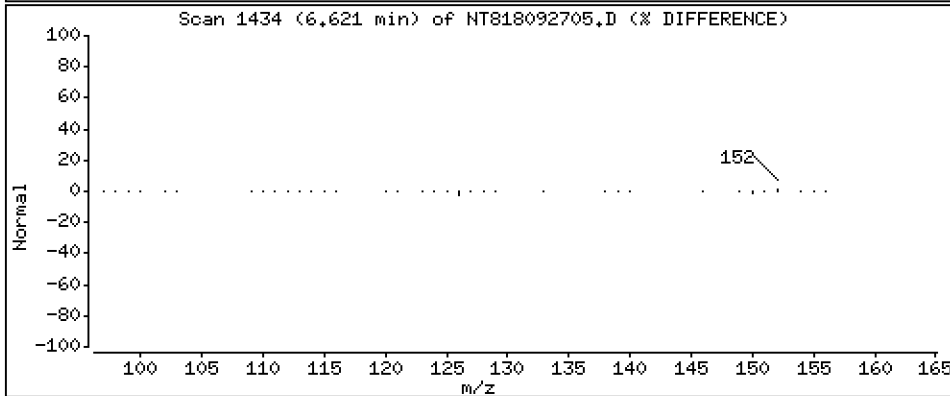
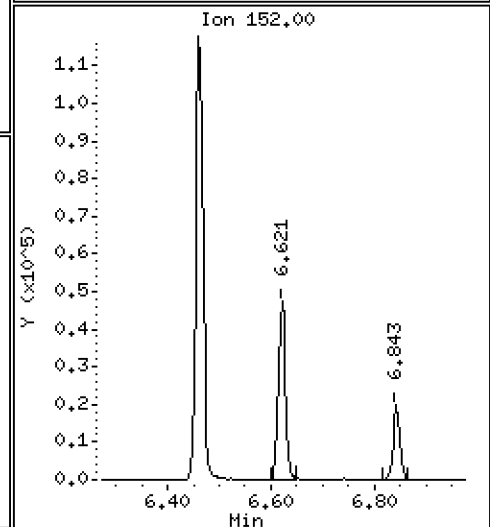
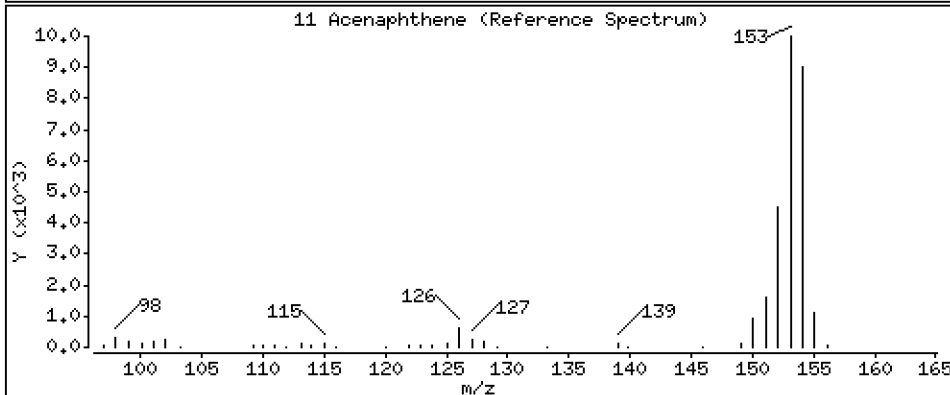
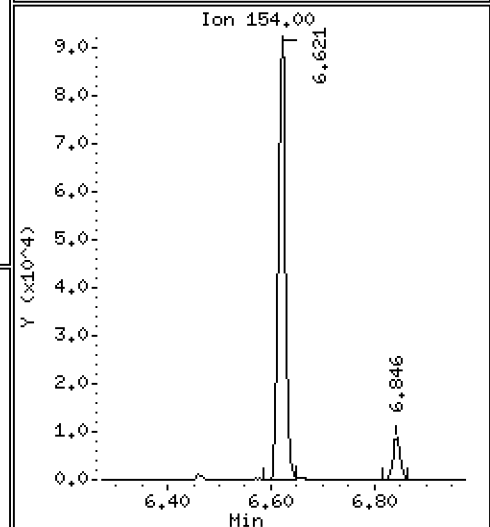
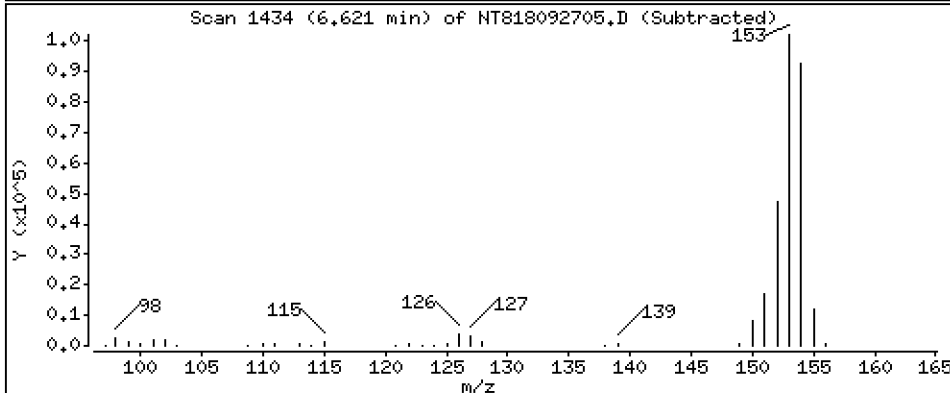
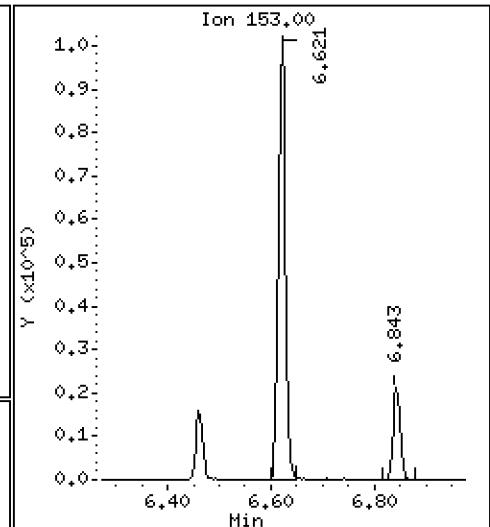
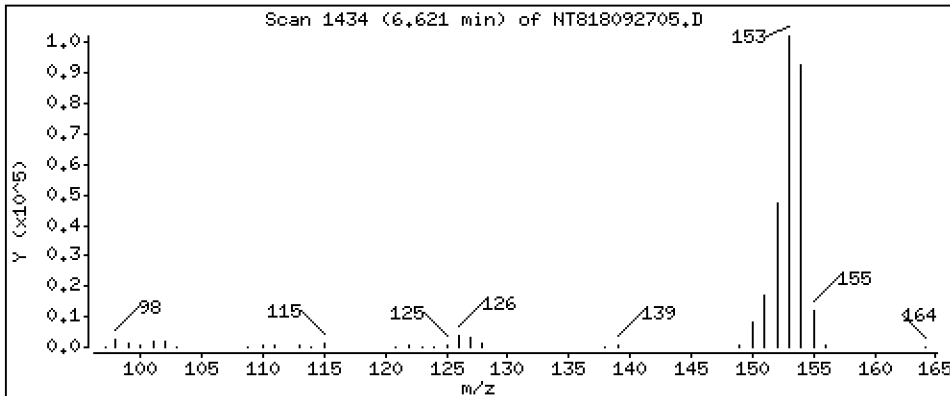
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 1,783 ug/mL

11 Acenaphthene



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

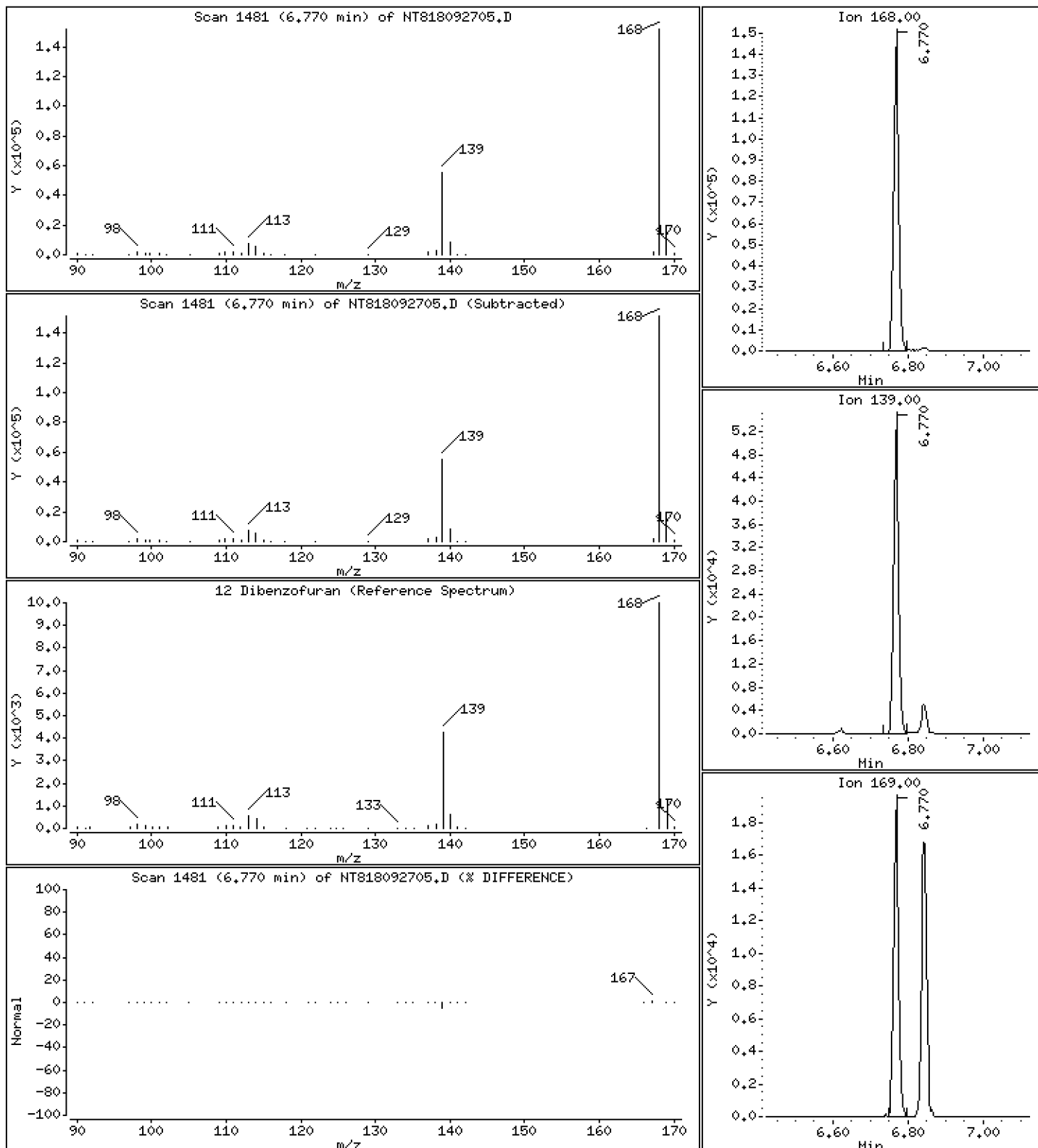
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

12 Dibenzofuran

Concentration: 1,880 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

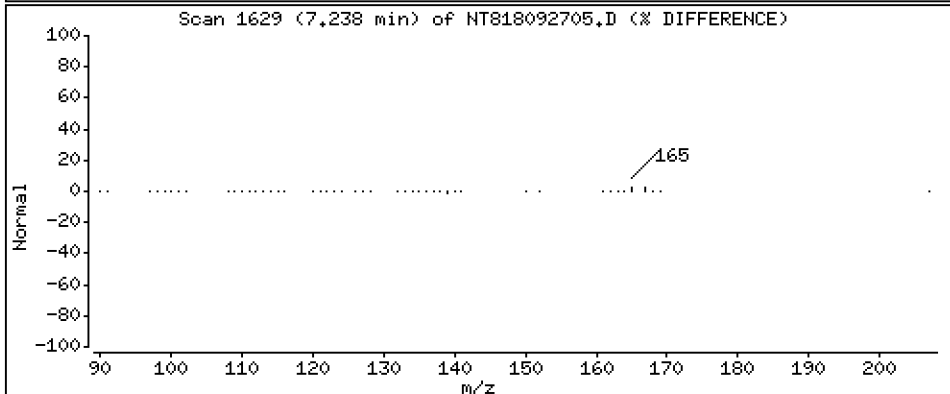
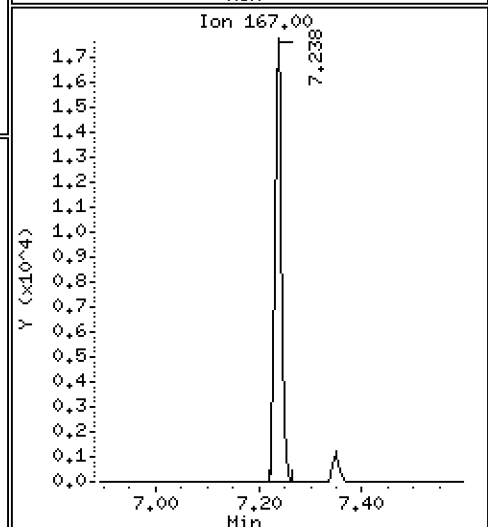
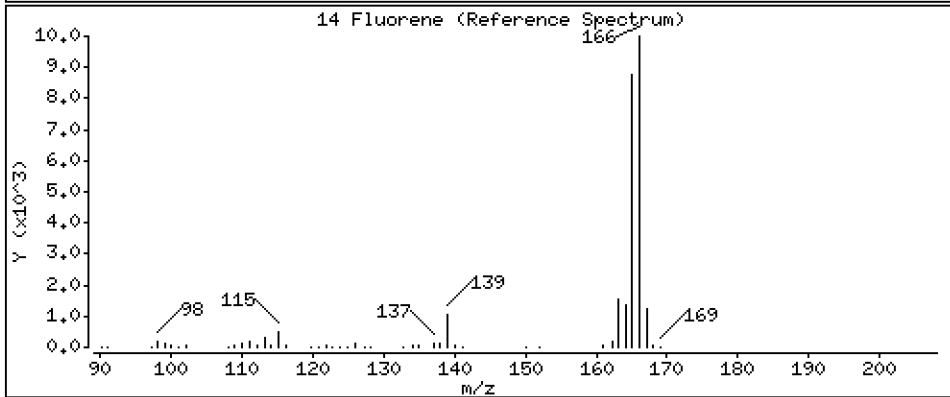
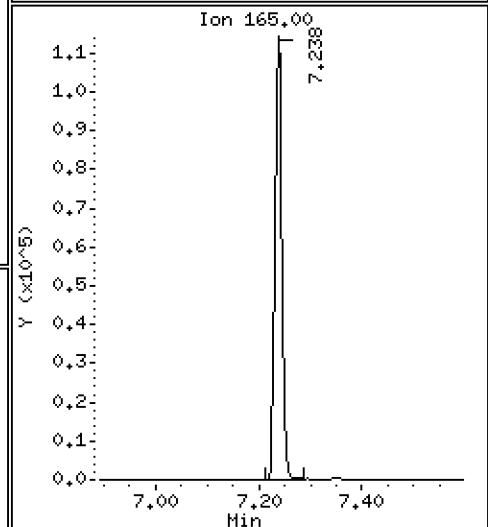
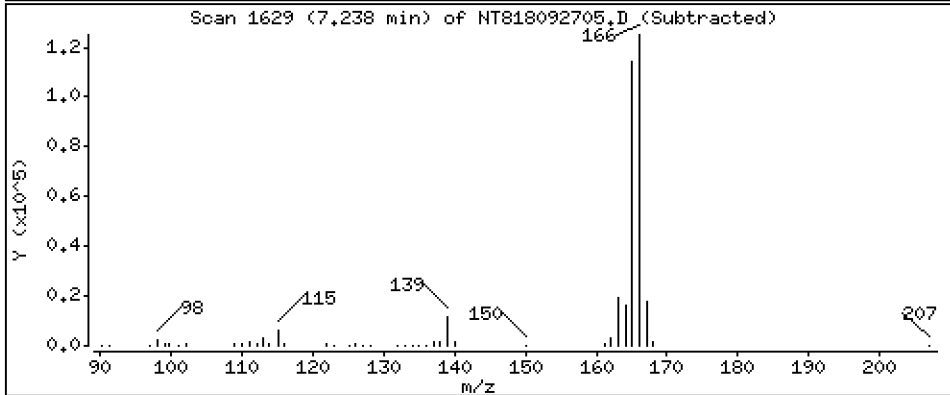
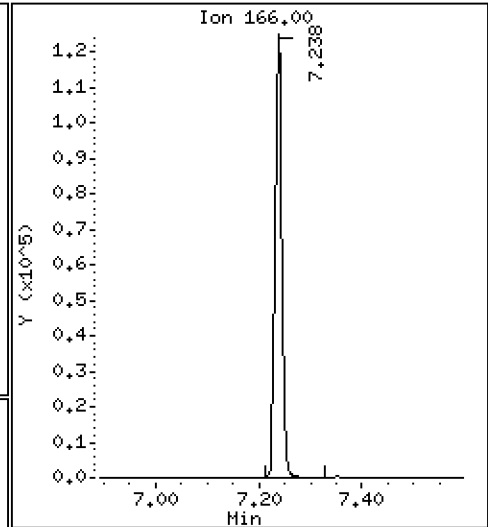
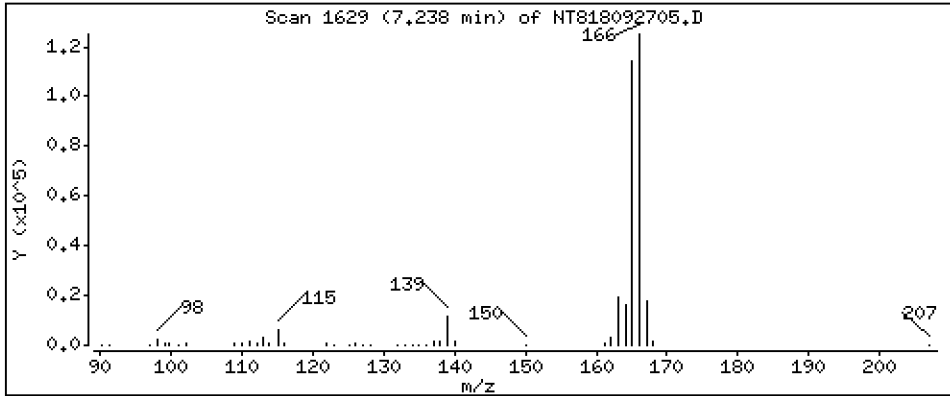
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

14 Fluorene

Concentration: 1.894 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

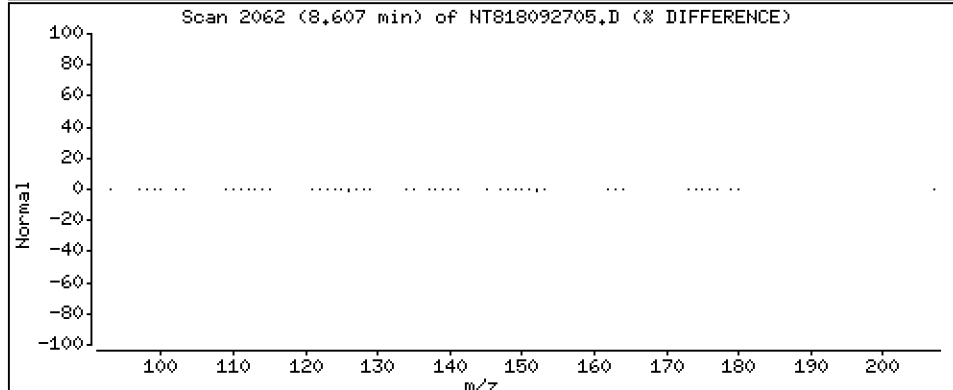
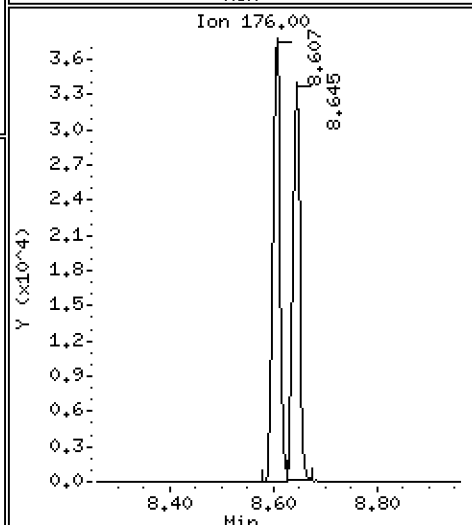
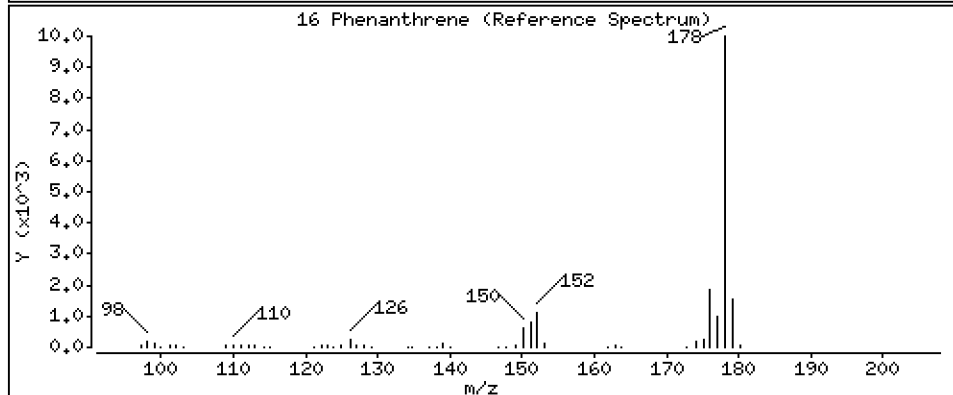
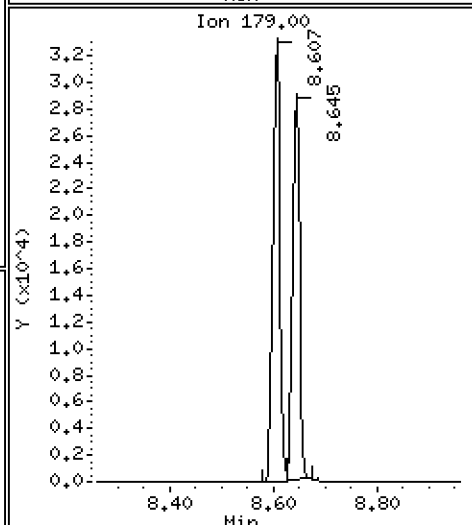
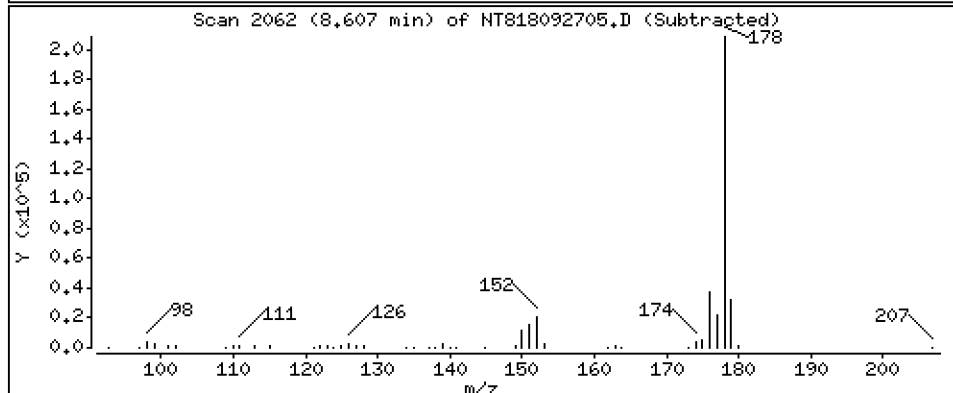
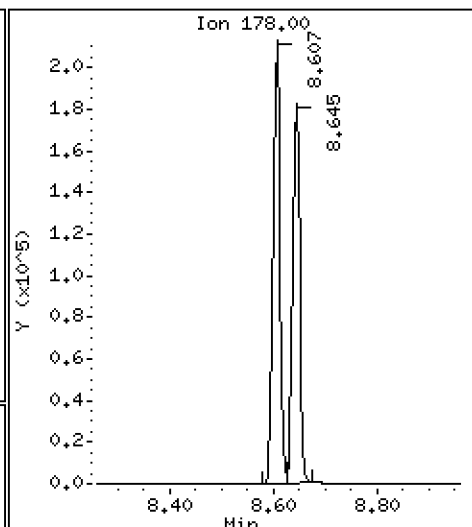
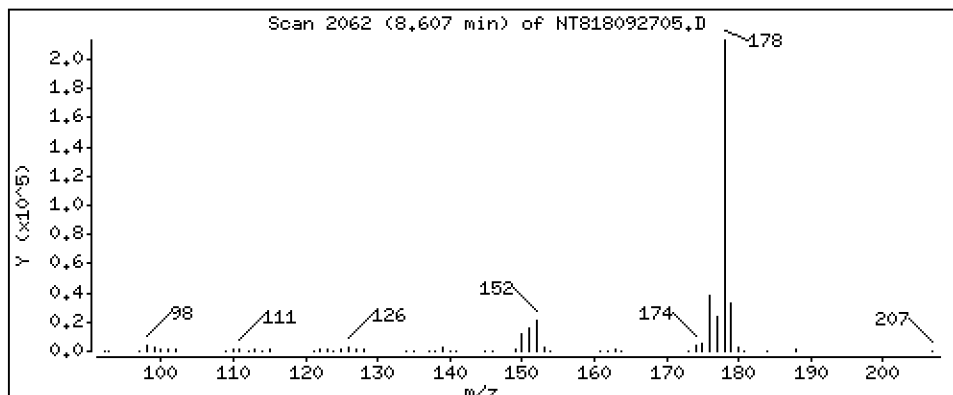
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

16 Phenanthrene

Concentration: 2,380 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

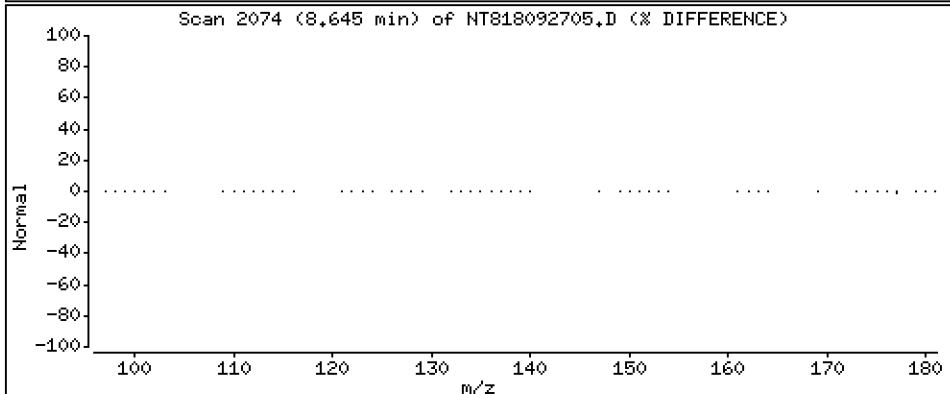
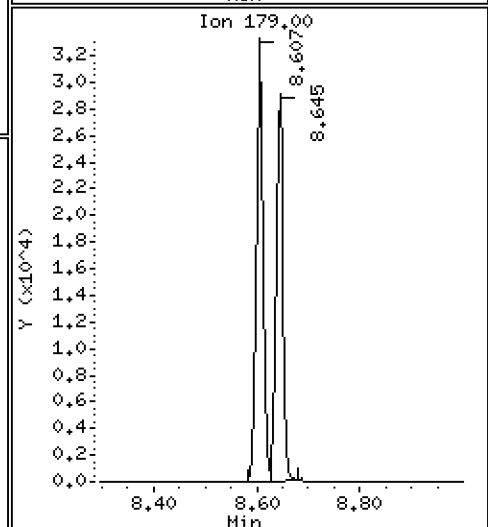
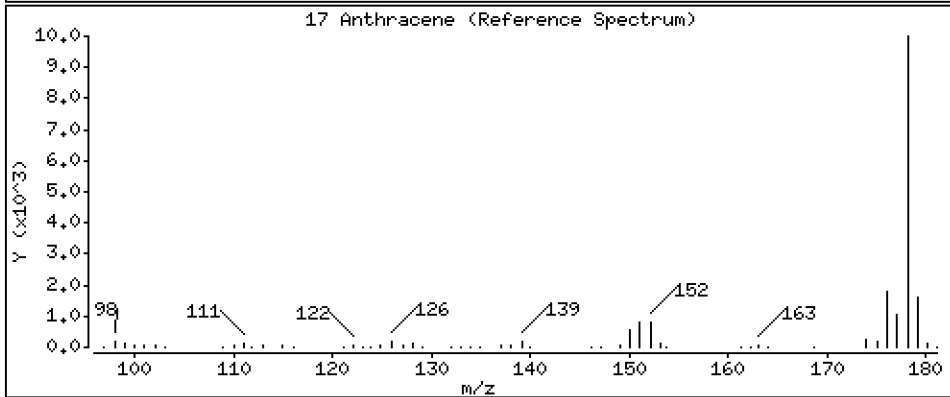
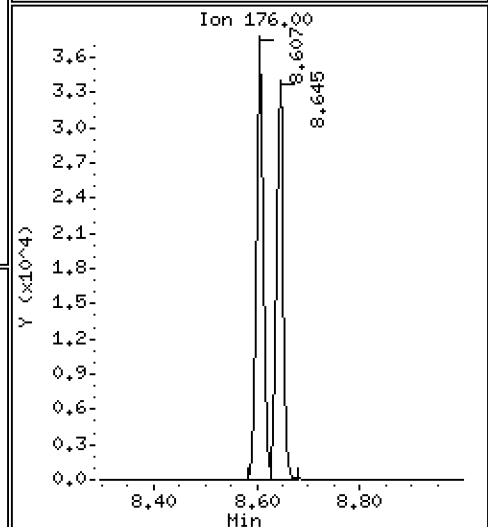
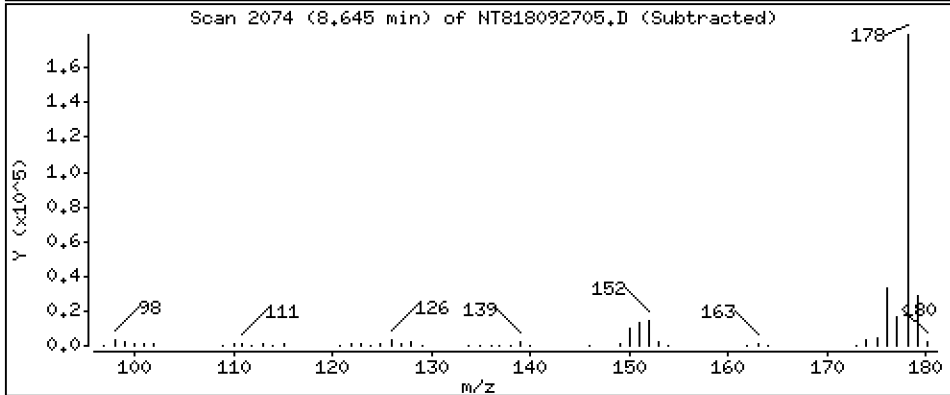
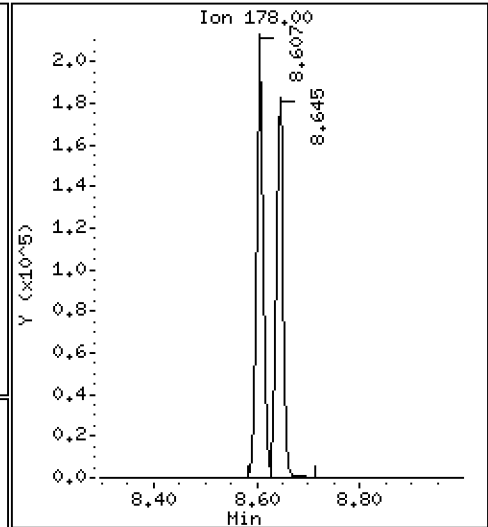
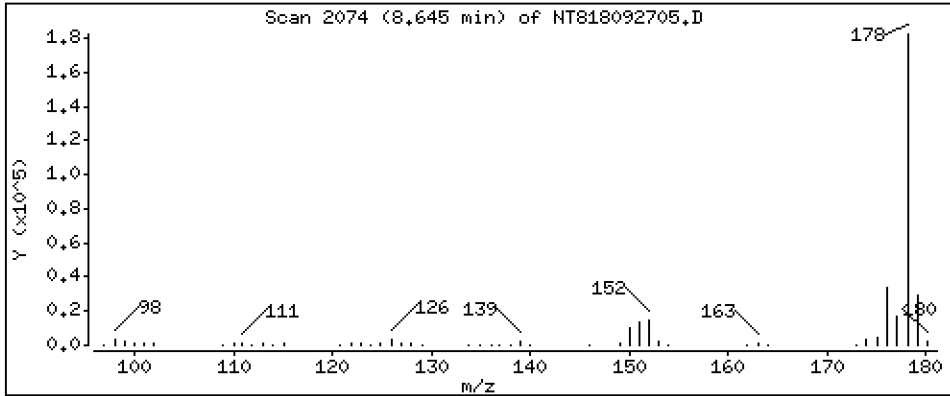
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

17 Anthracene

Concentration: 2,145 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

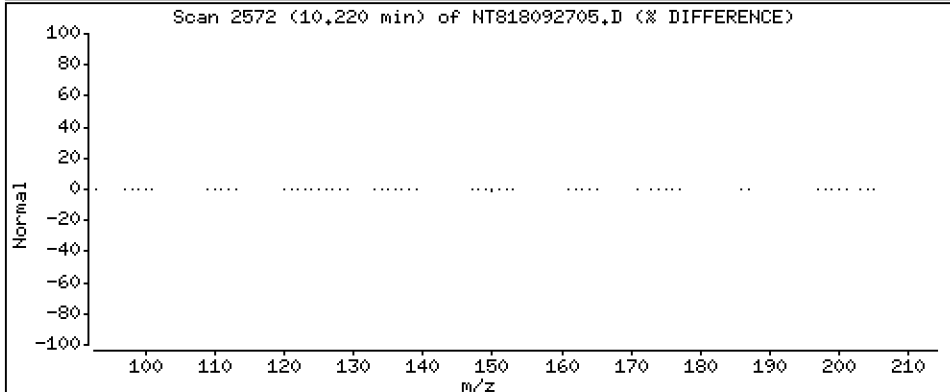
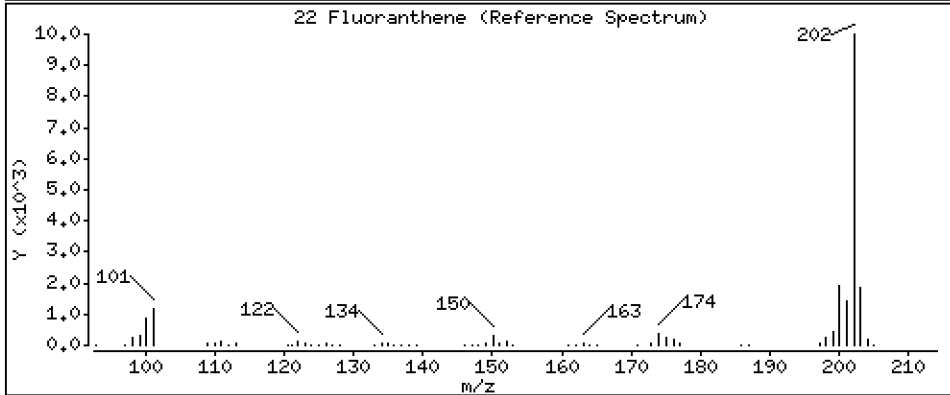
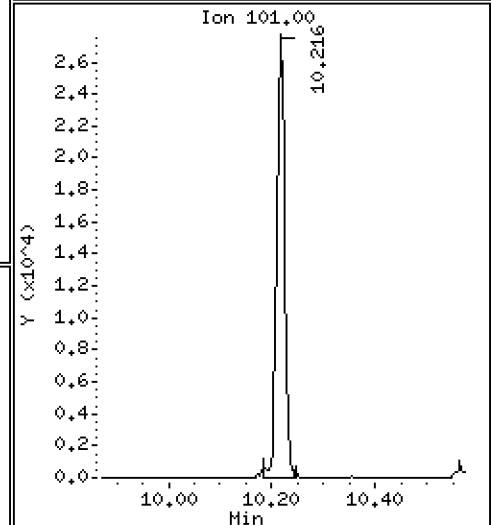
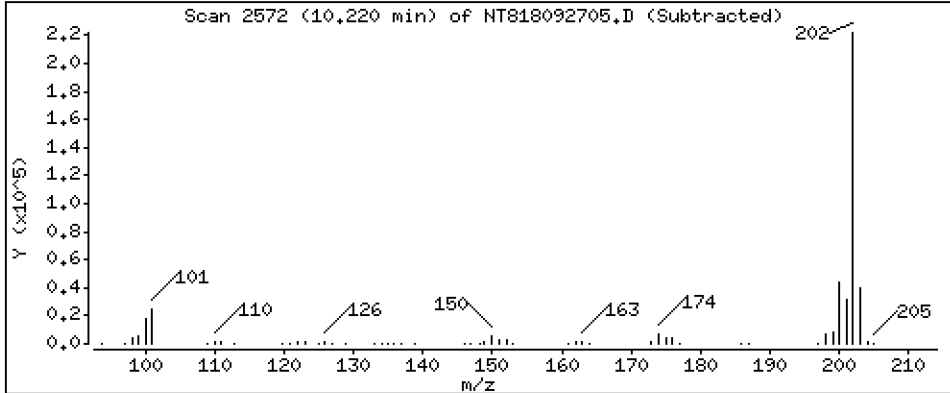
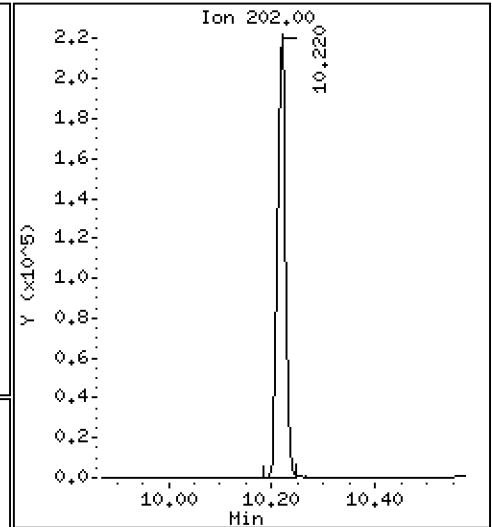
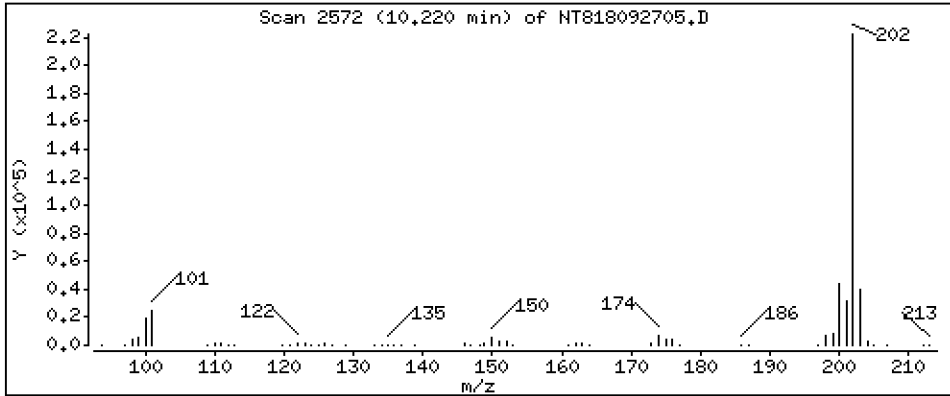
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 2,521 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

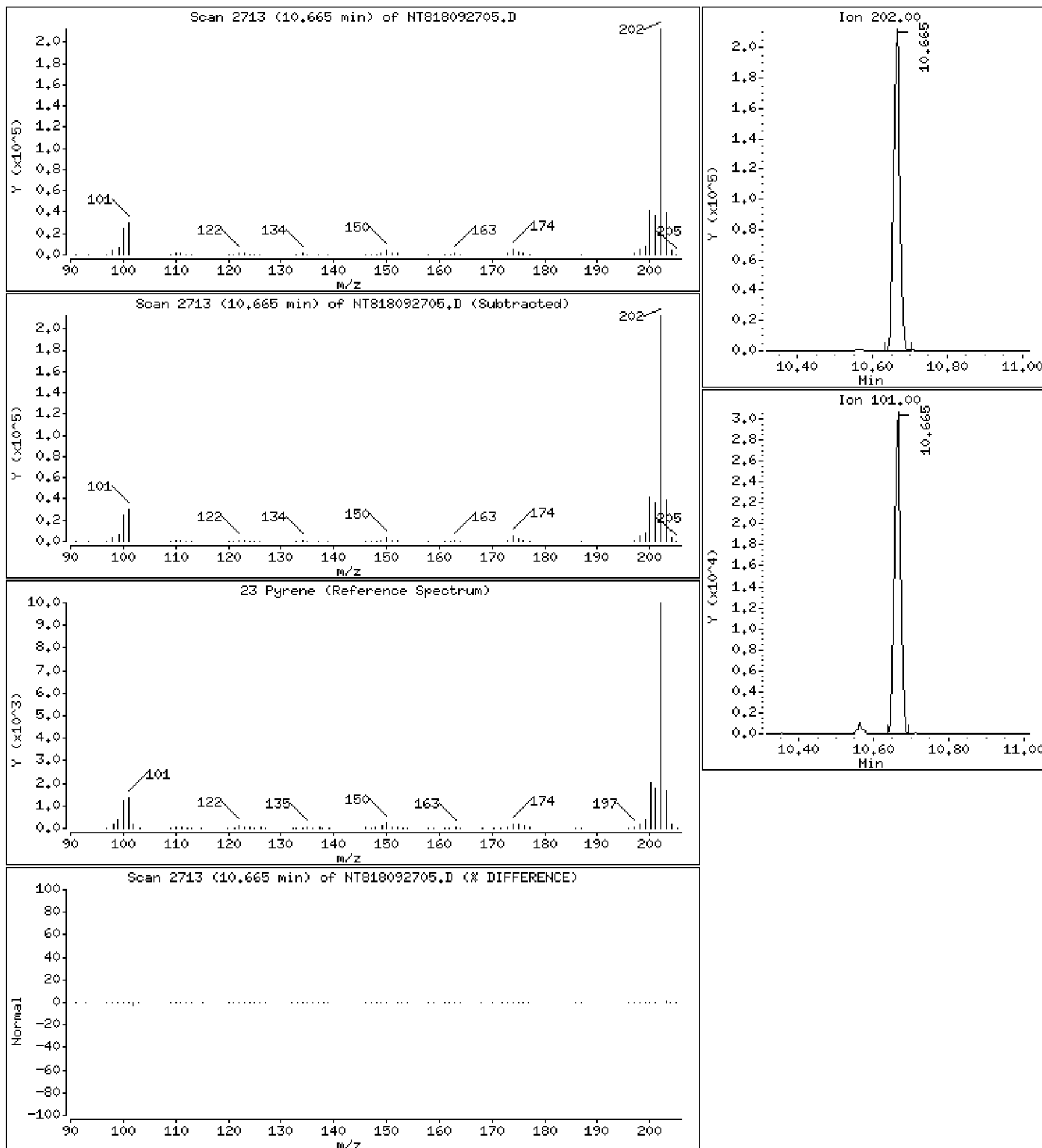
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 2,545 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

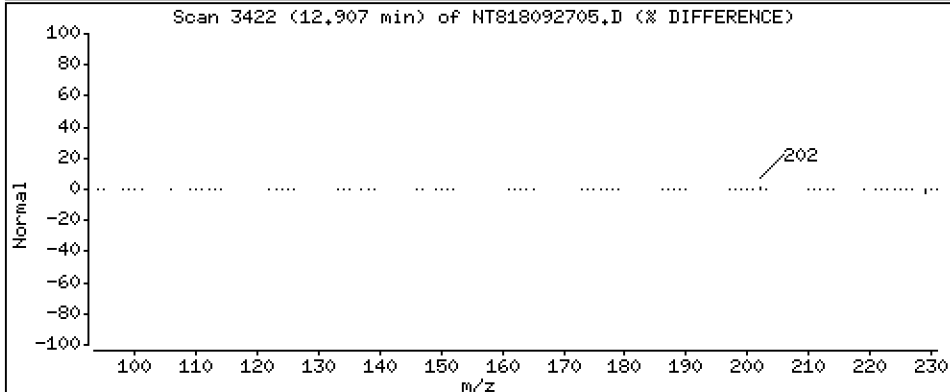
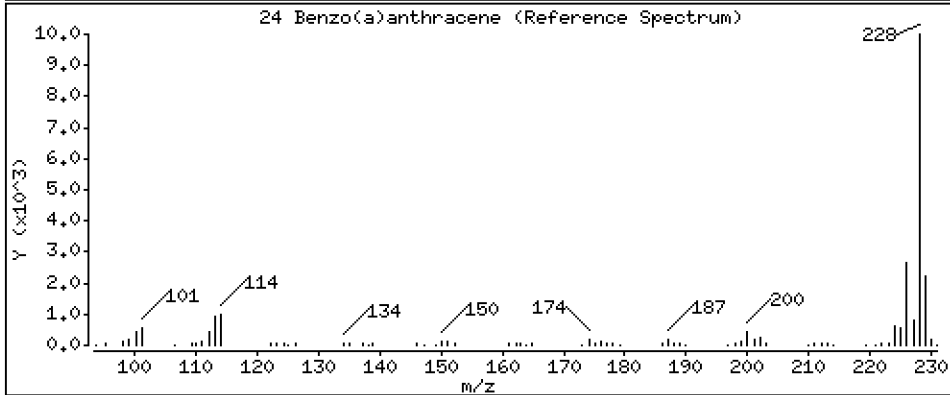
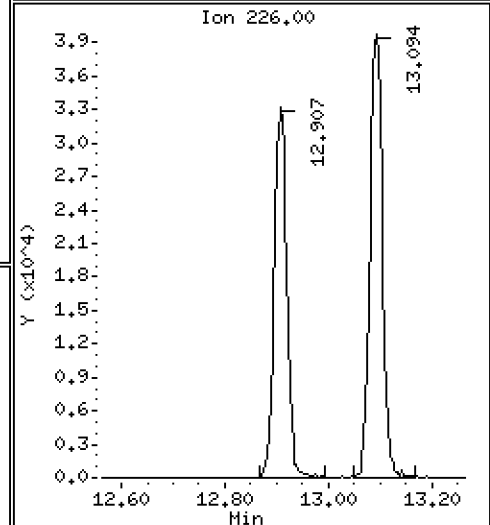
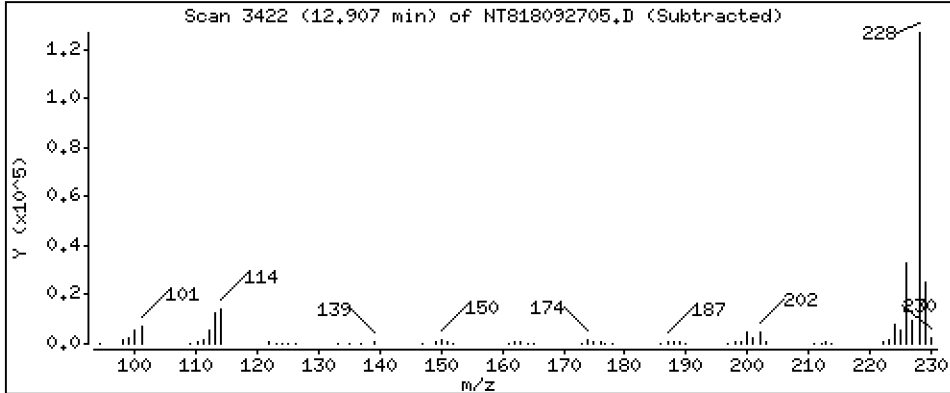
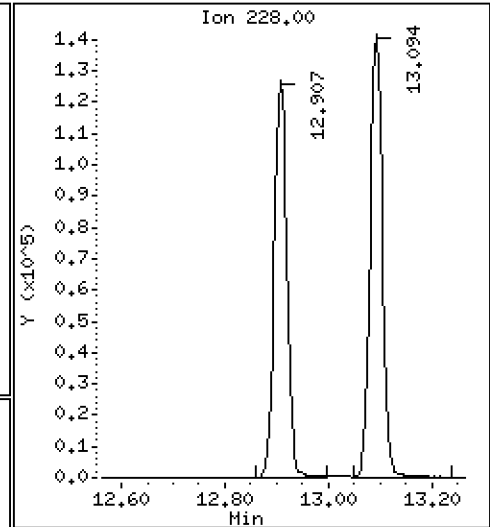
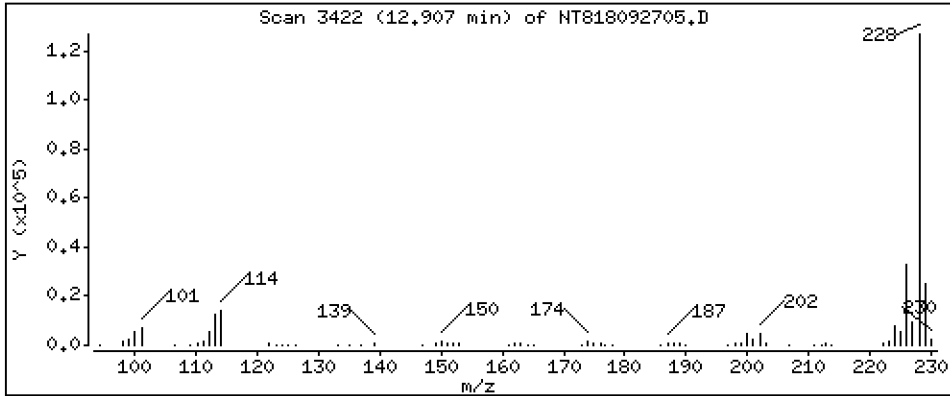
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 2,332 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

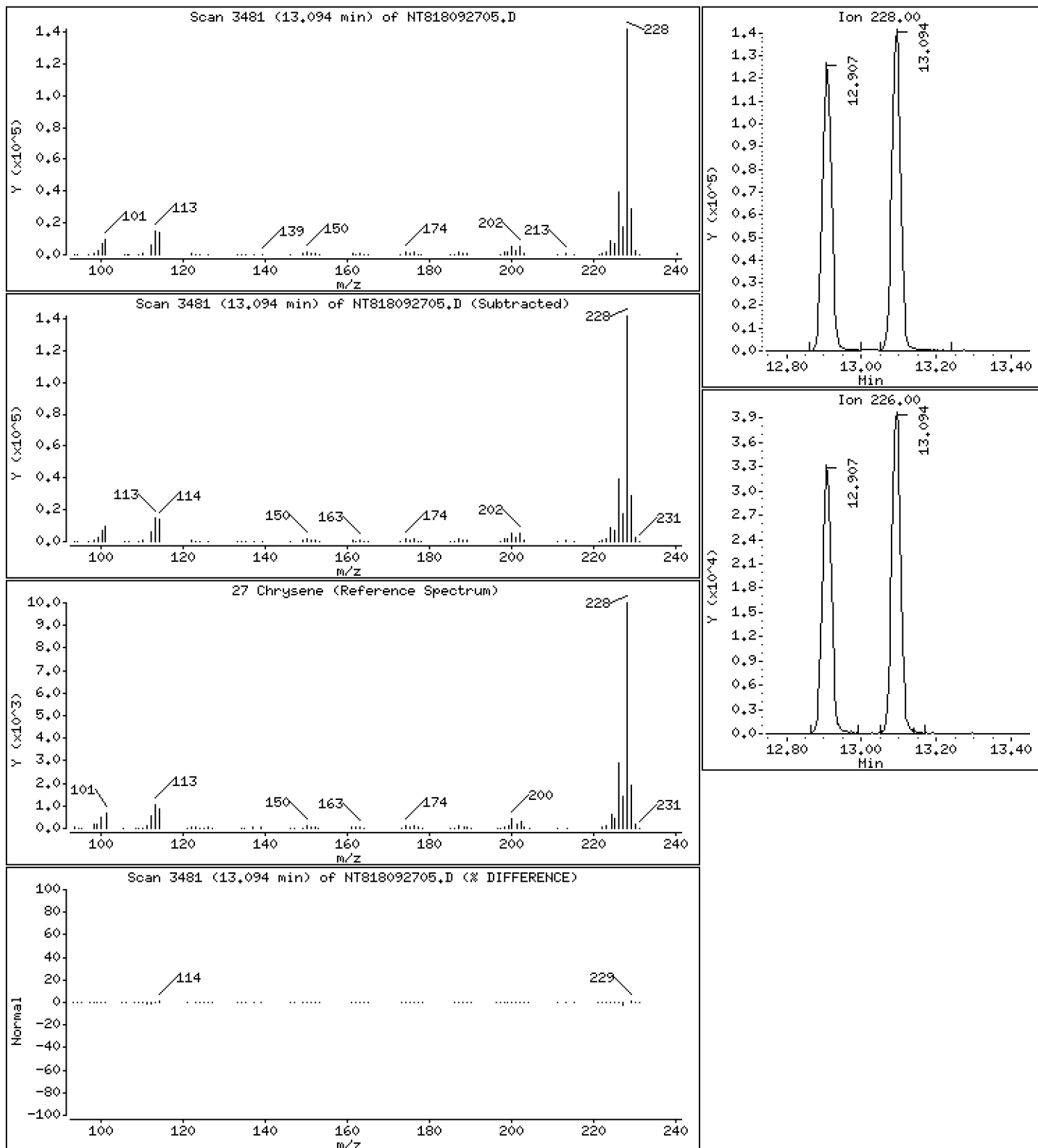
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 2,671 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

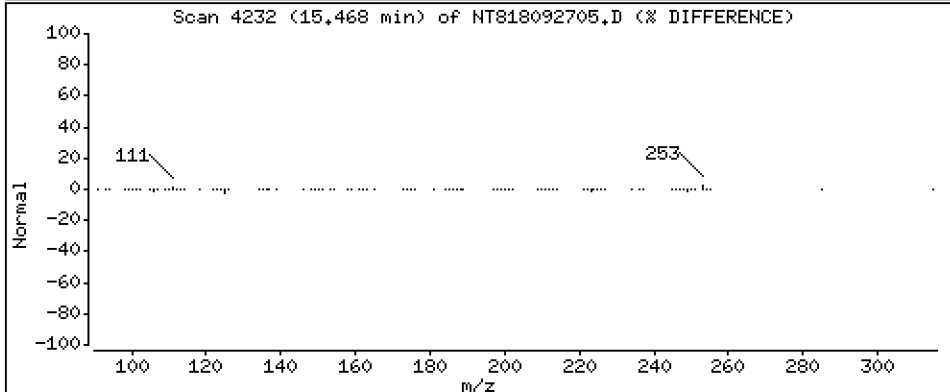
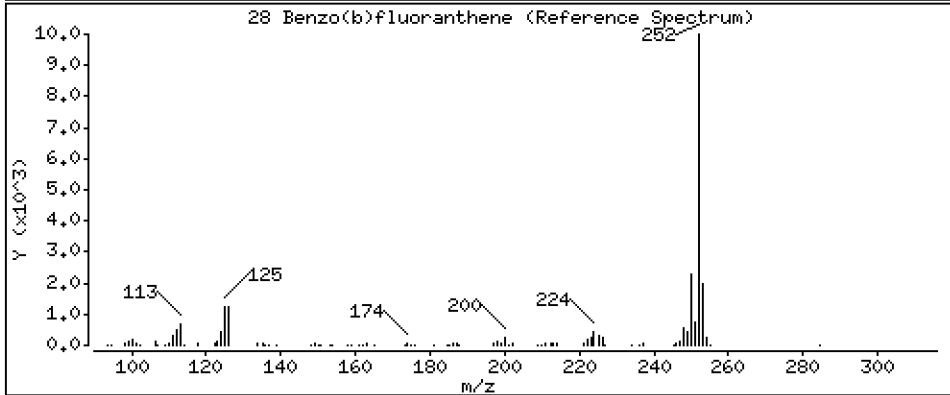
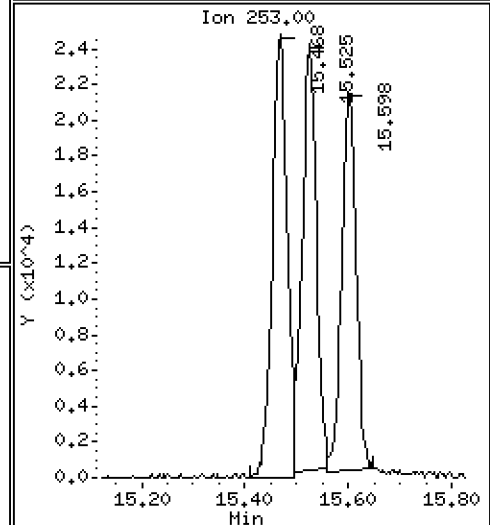
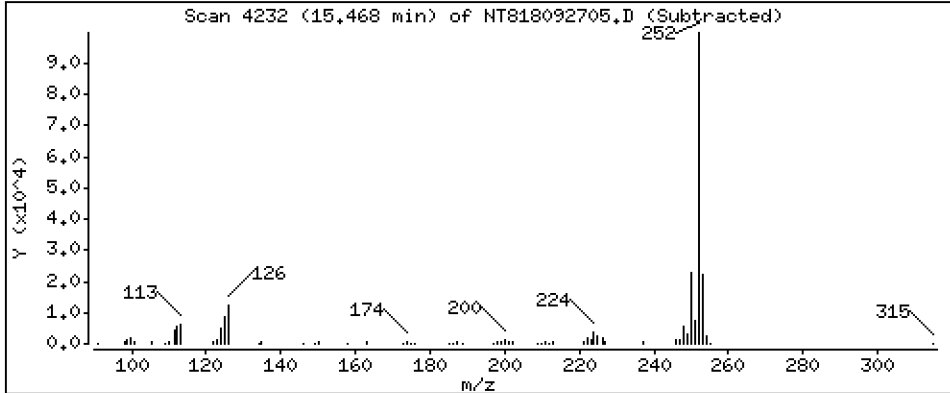
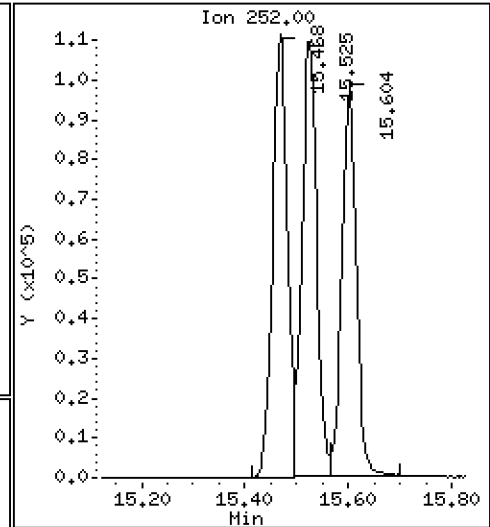
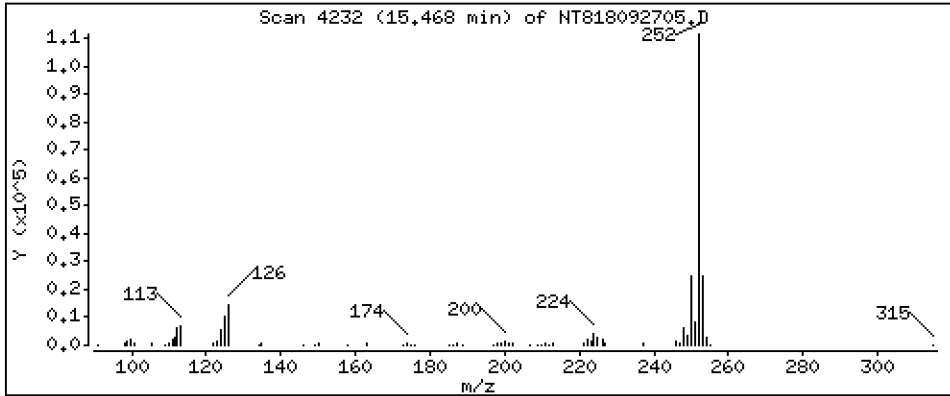
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 3,419 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

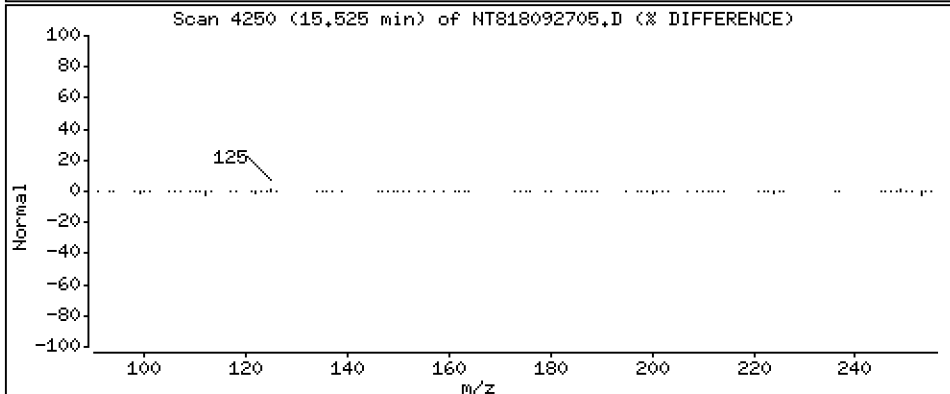
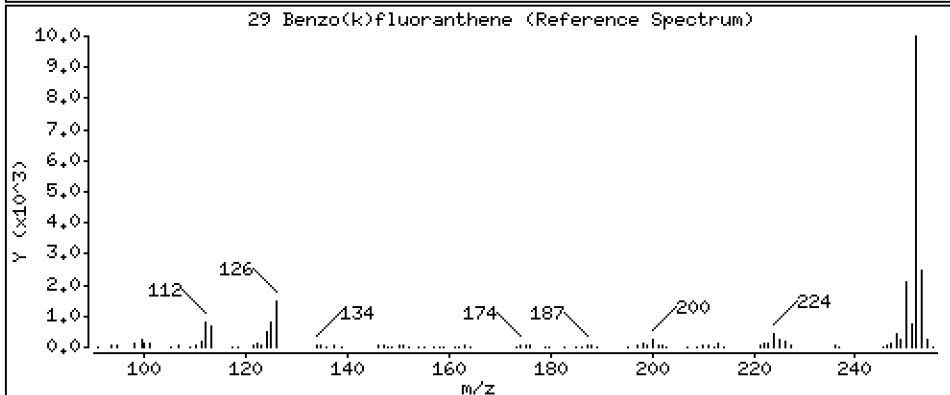
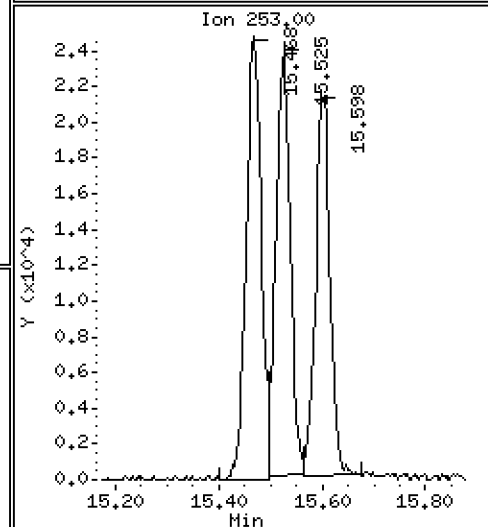
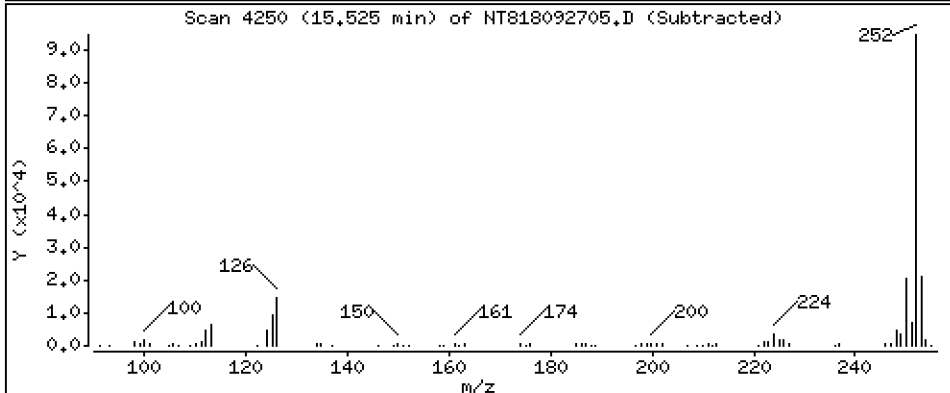
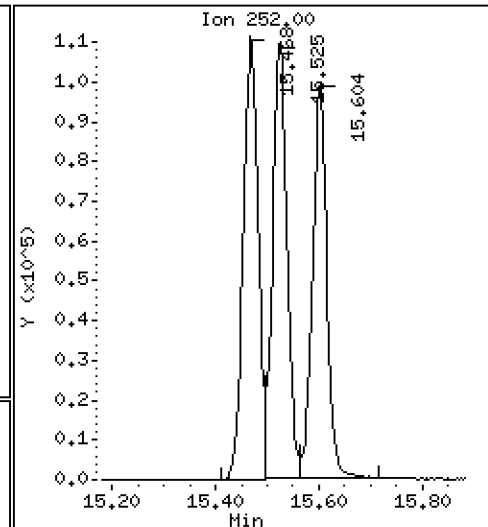
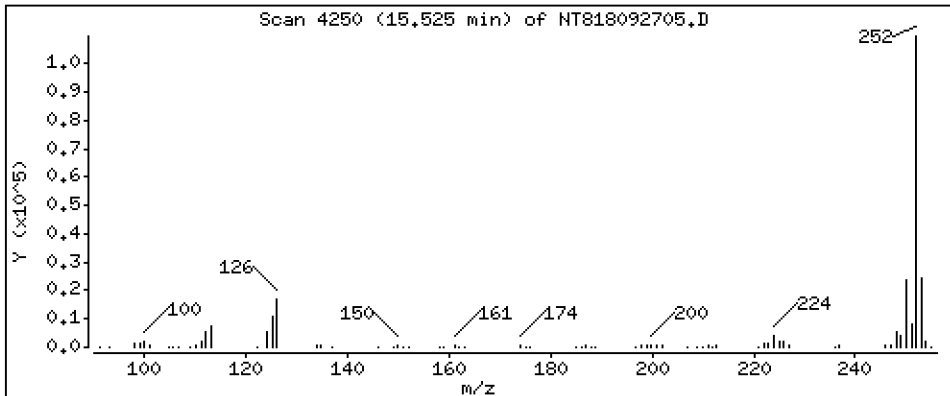
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 3,326 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

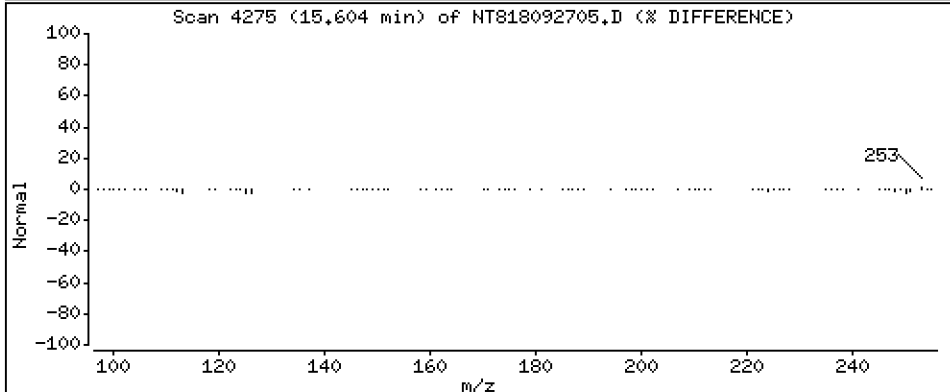
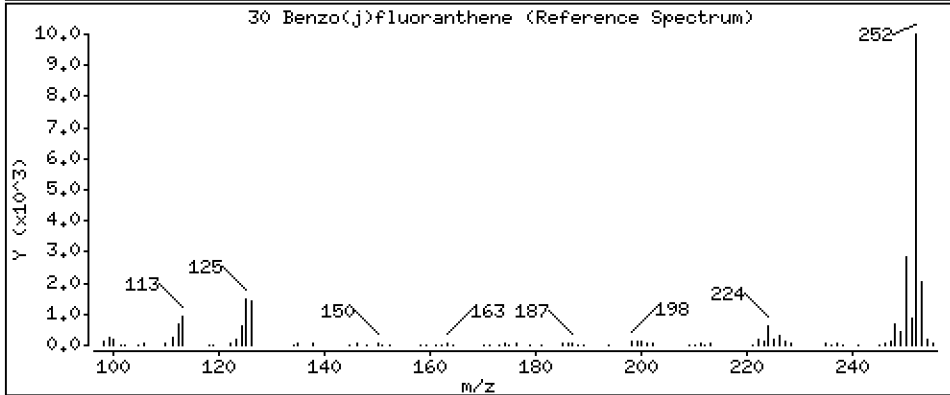
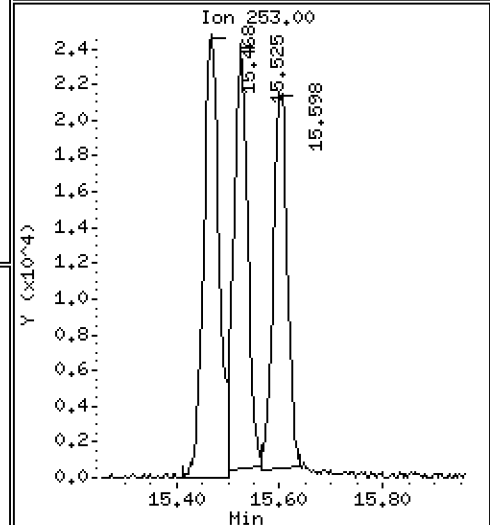
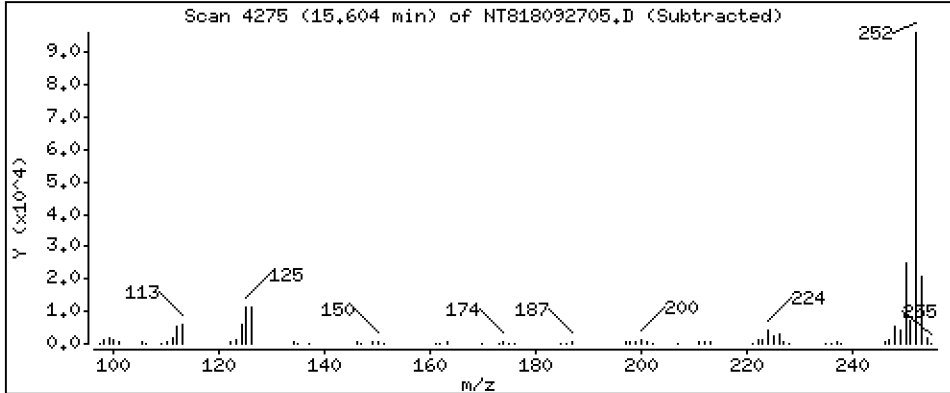
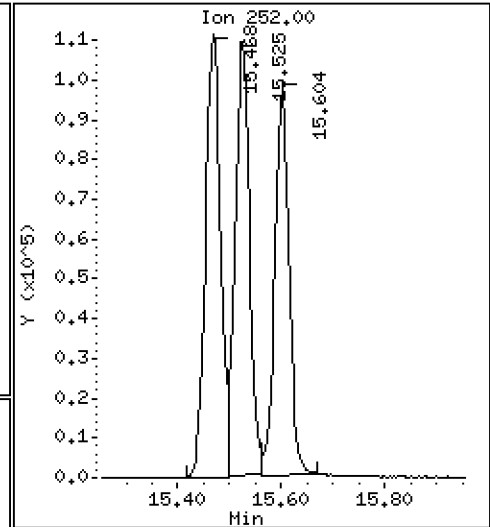
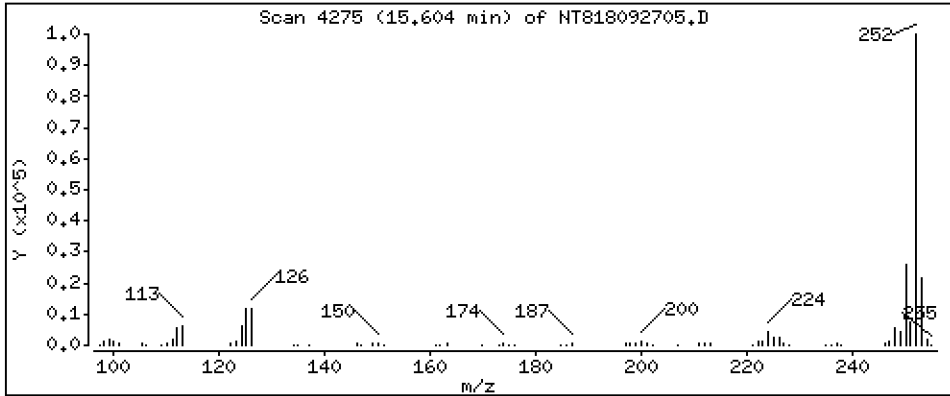
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 3,030 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

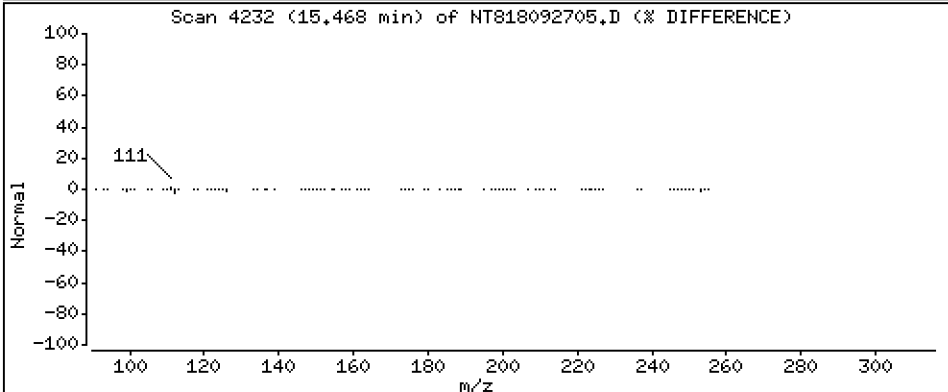
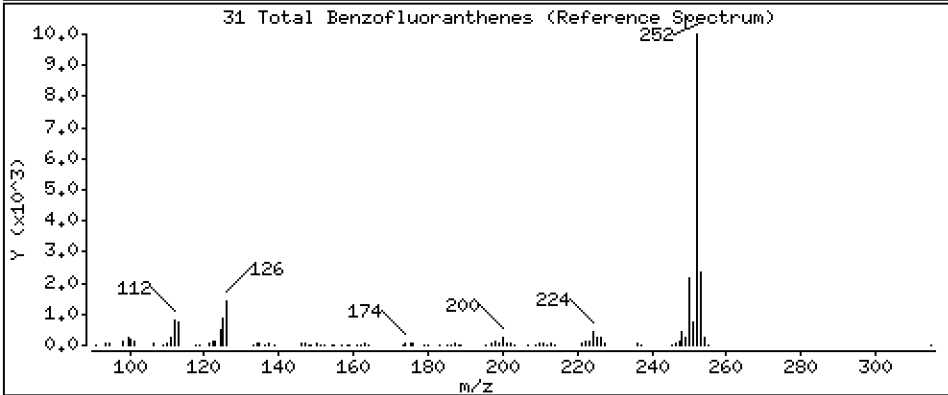
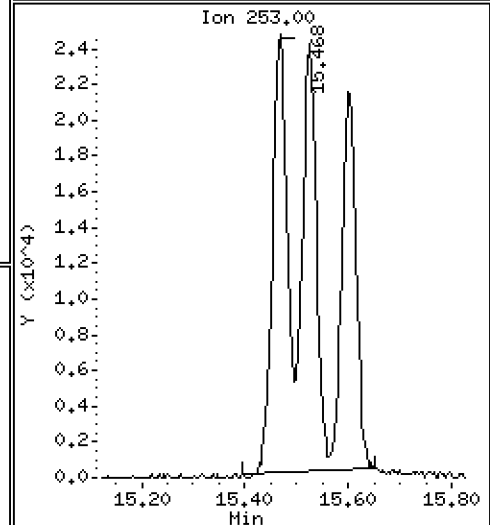
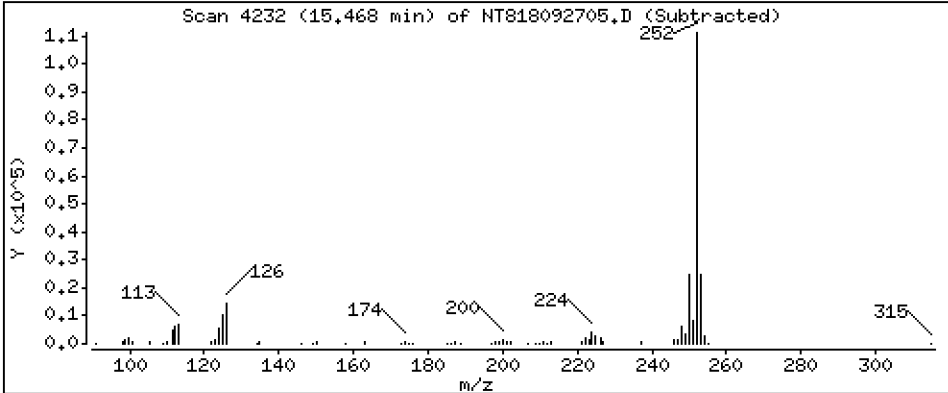
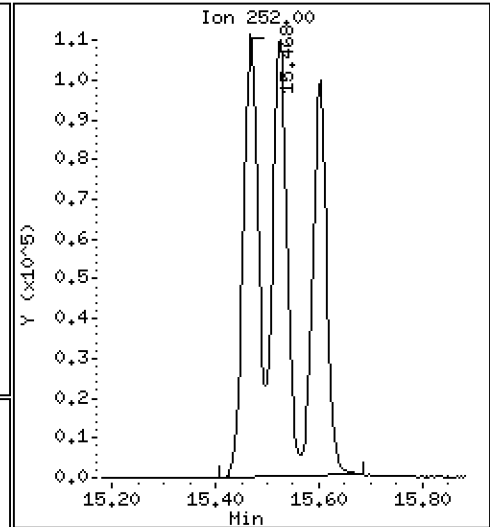
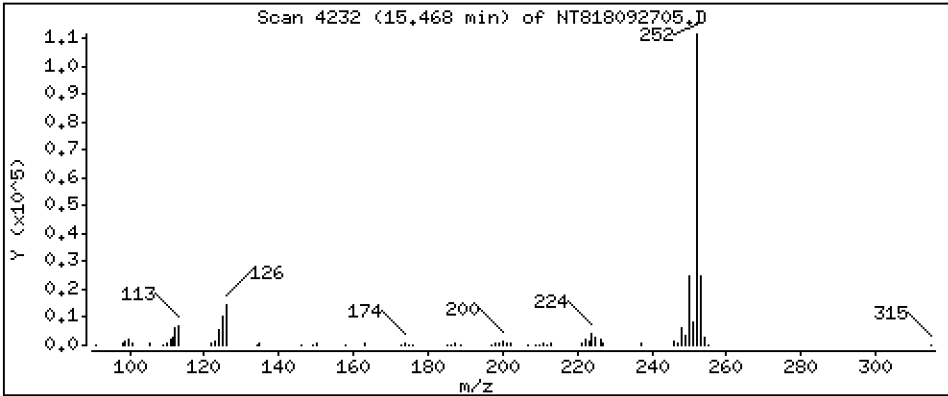
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 9,800 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

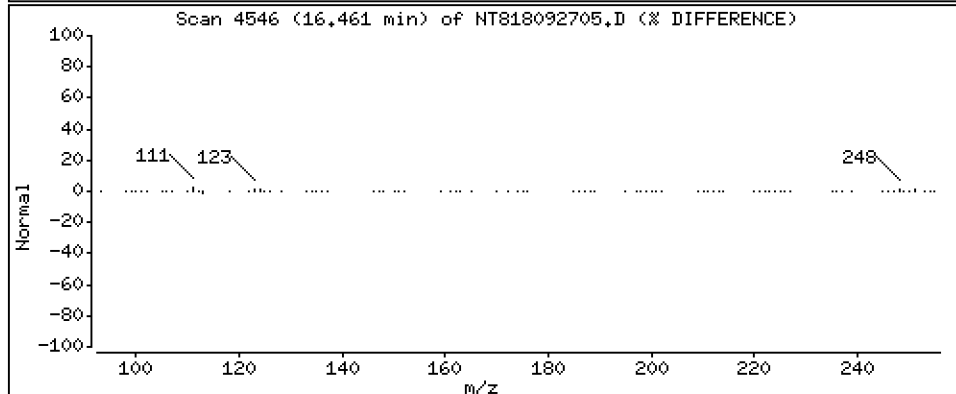
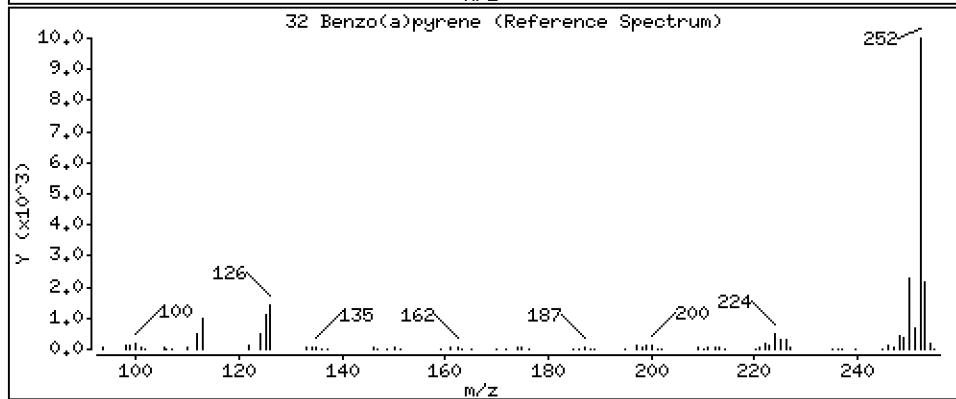
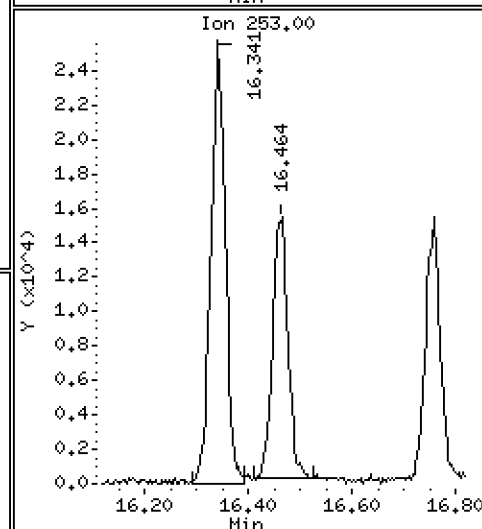
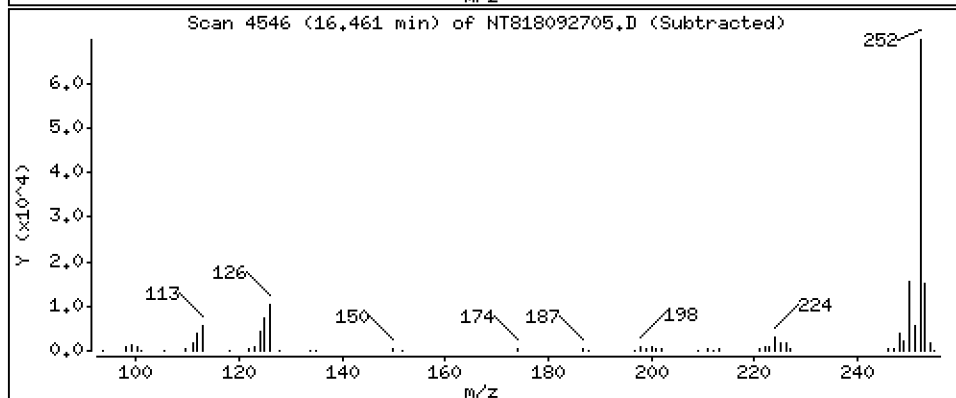
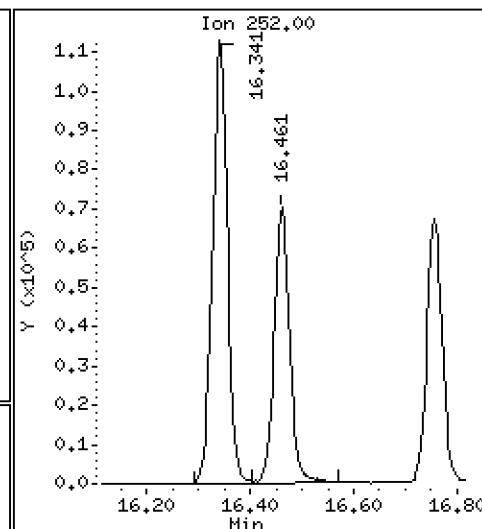
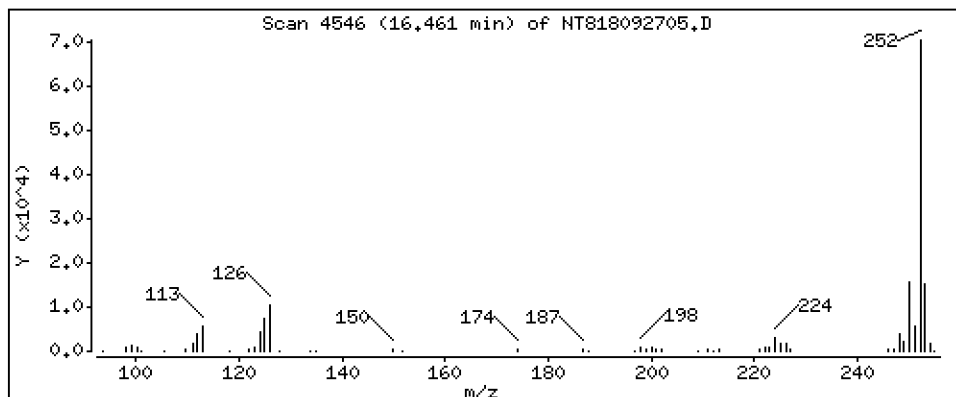
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 2,454 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

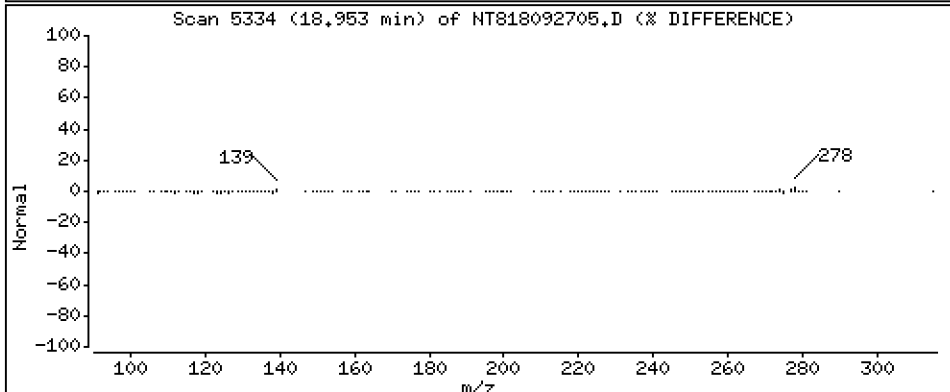
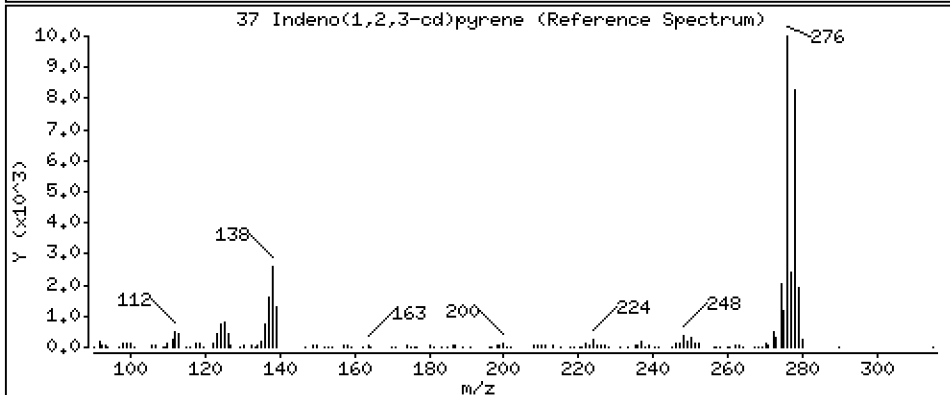
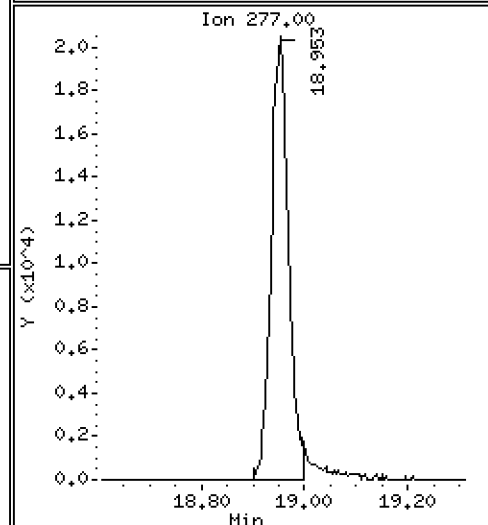
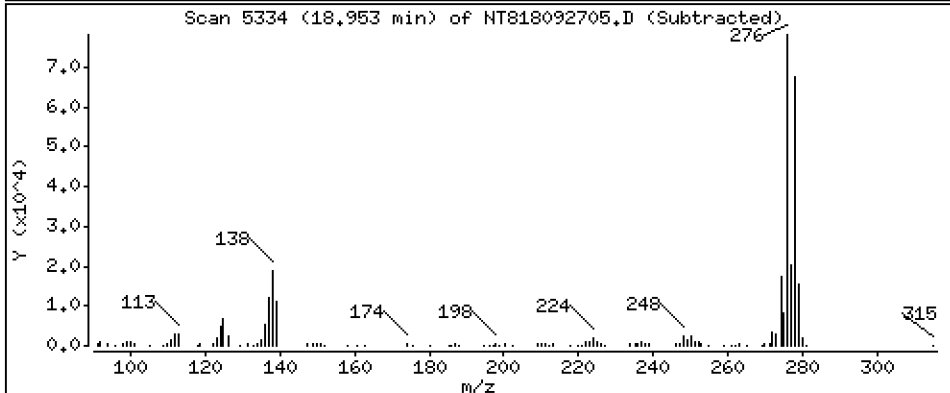
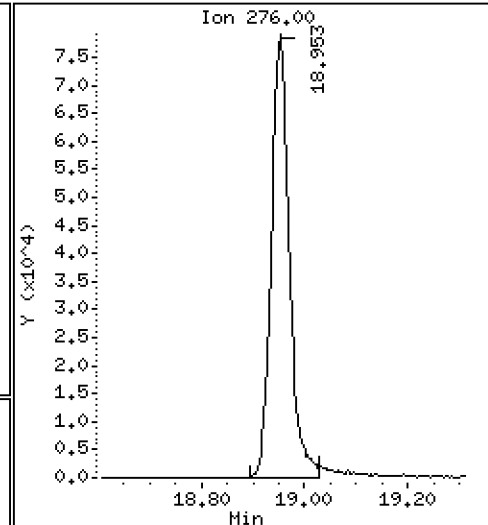
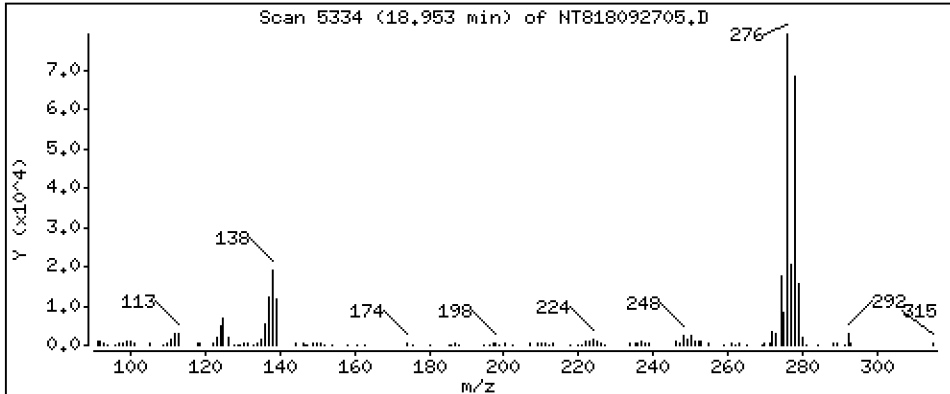
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 3,060 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

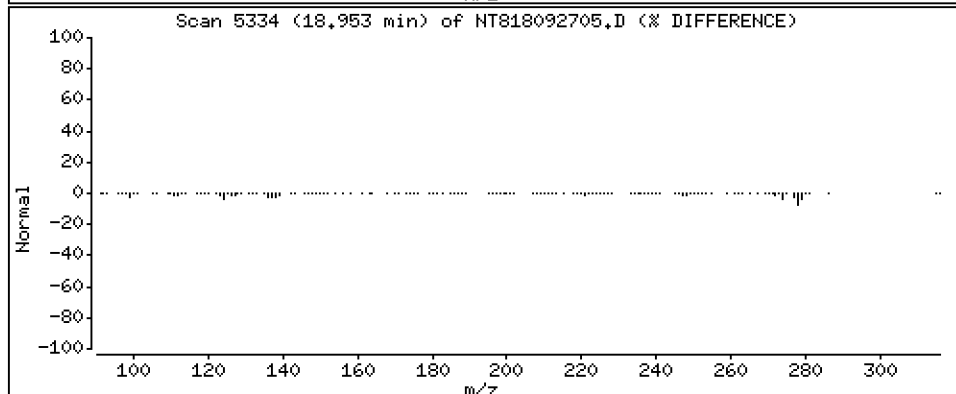
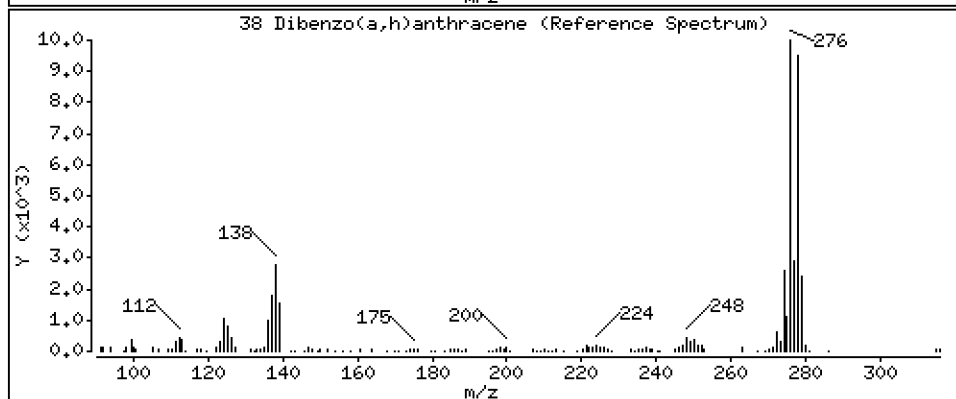
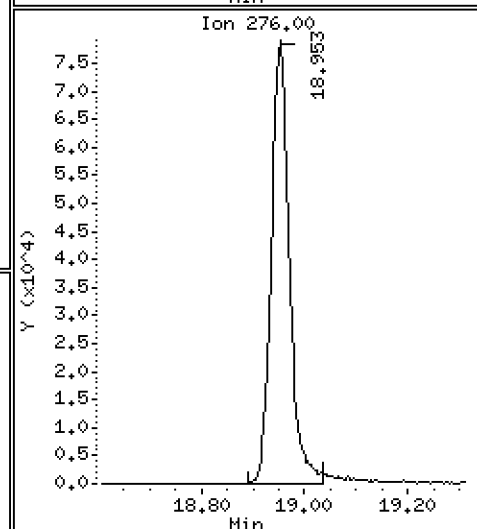
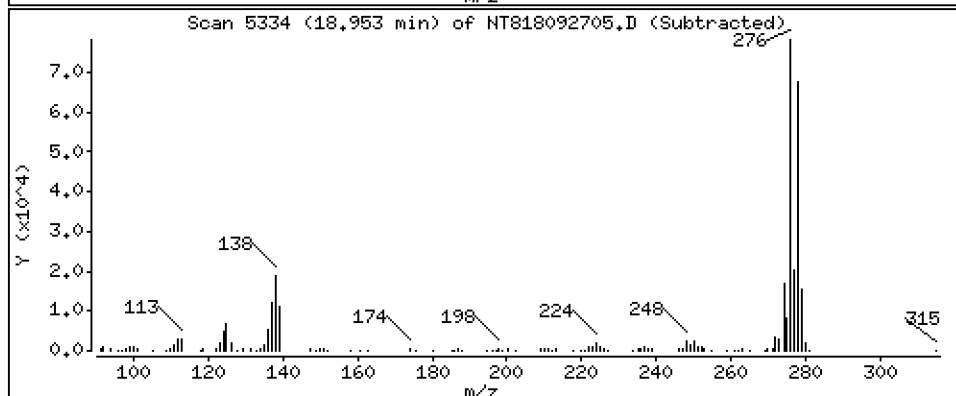
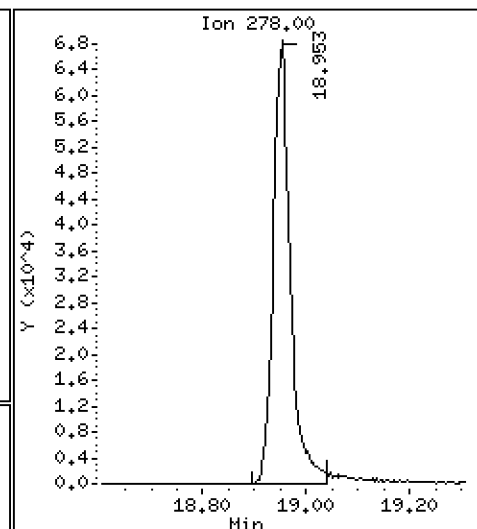
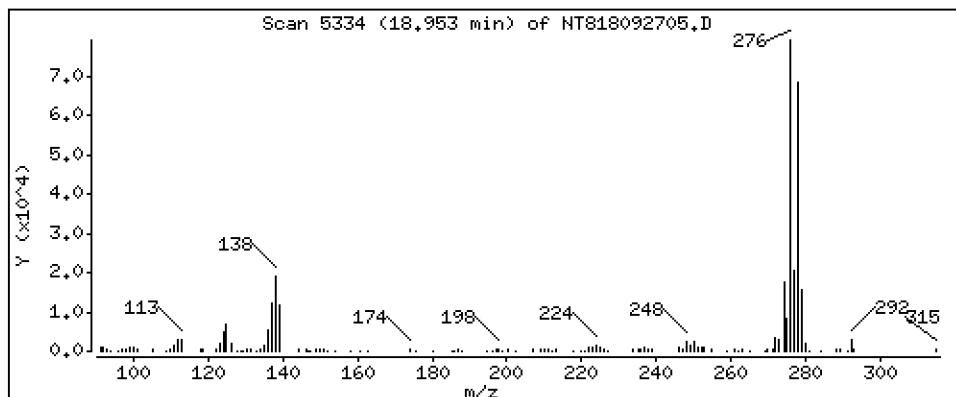
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 2,985 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

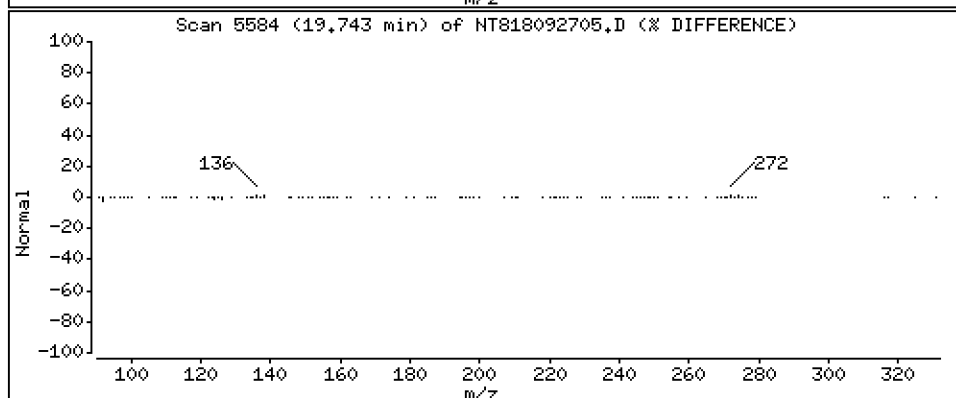
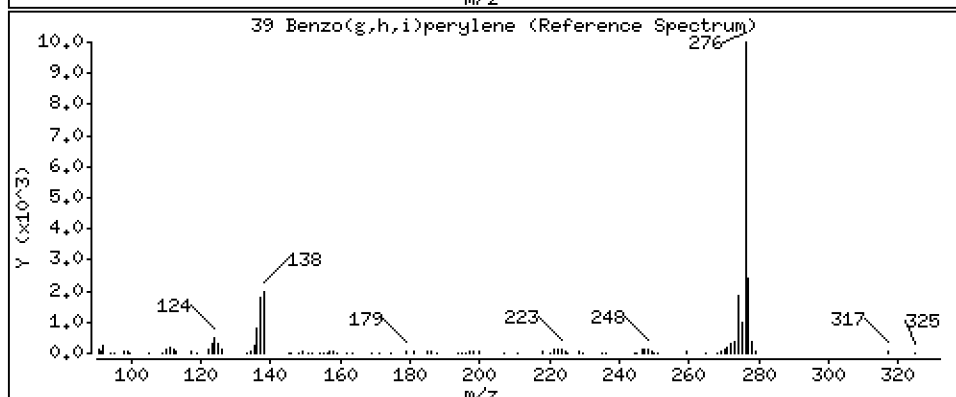
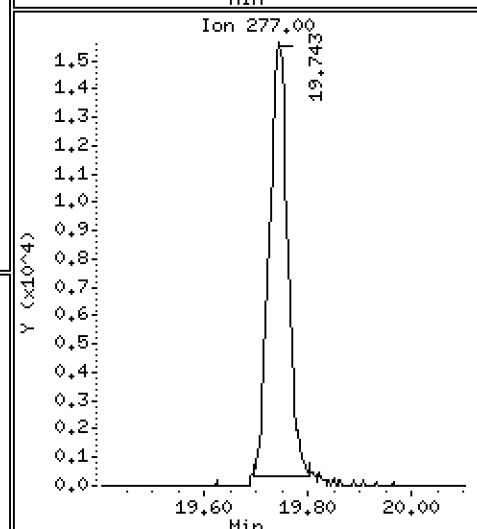
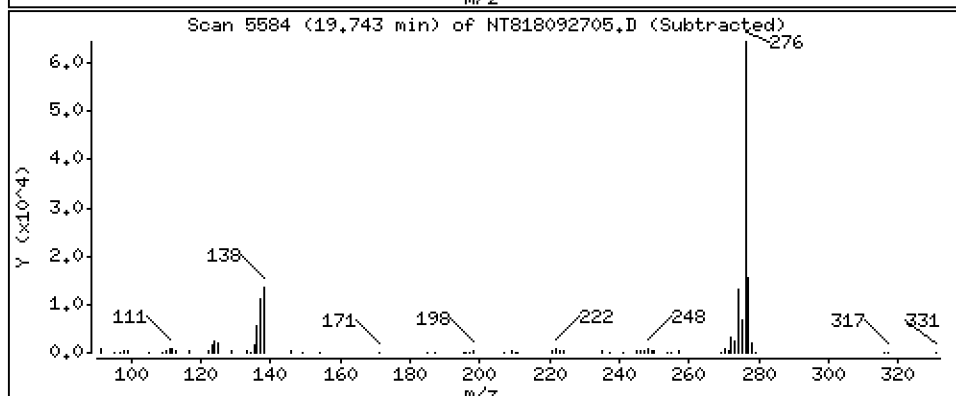
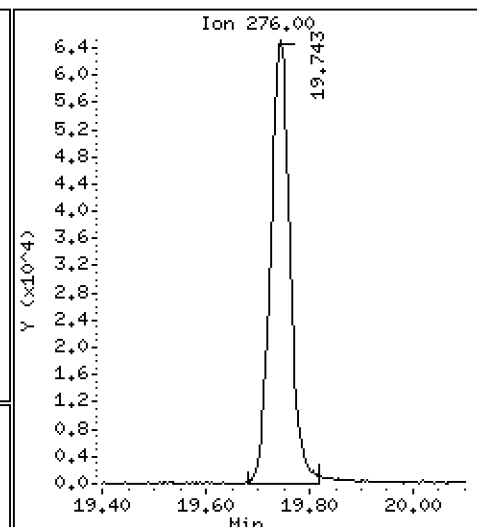
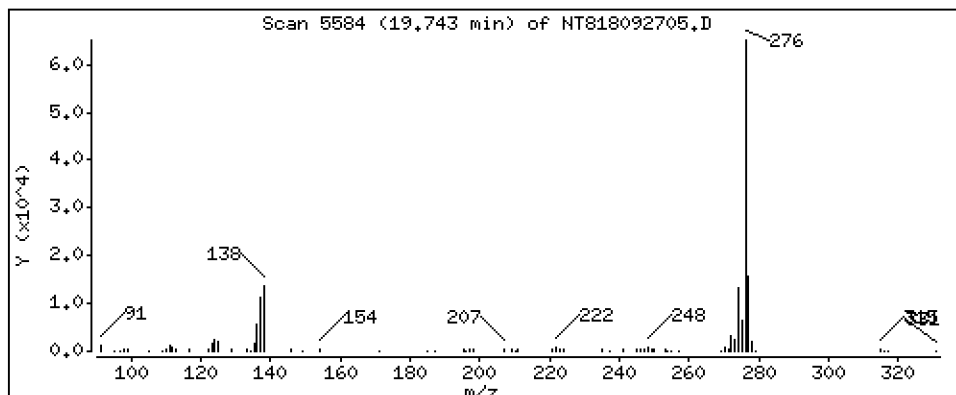
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 3,337 ug/mL



Date : 27-SEP-2018 14:02

Client ID:

Instrument: nt8.i

Sample Info: BGI0618-BSD1,

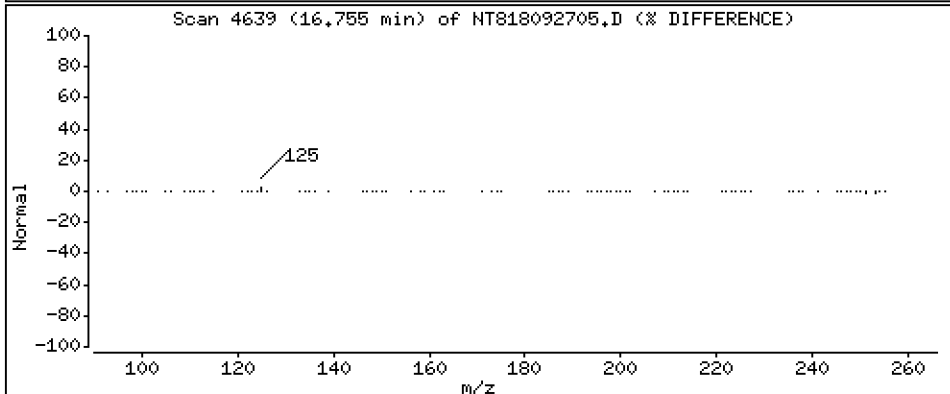
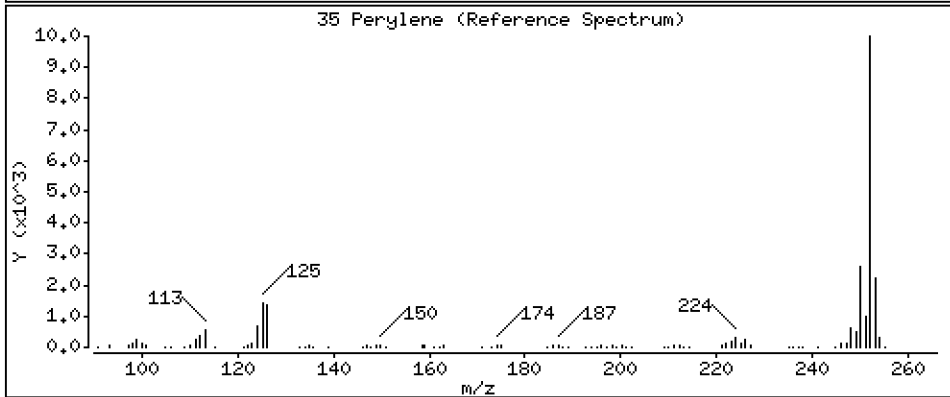
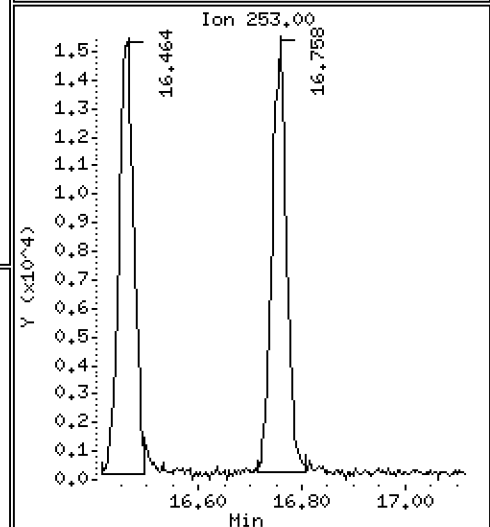
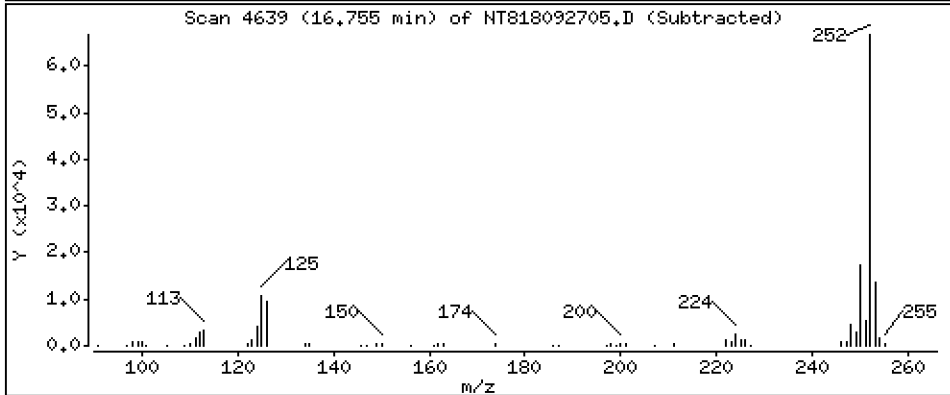
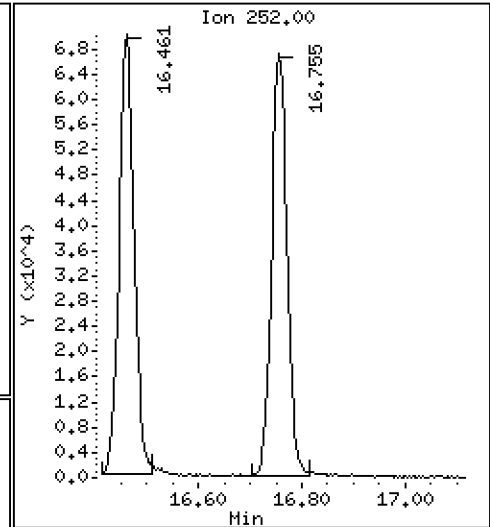
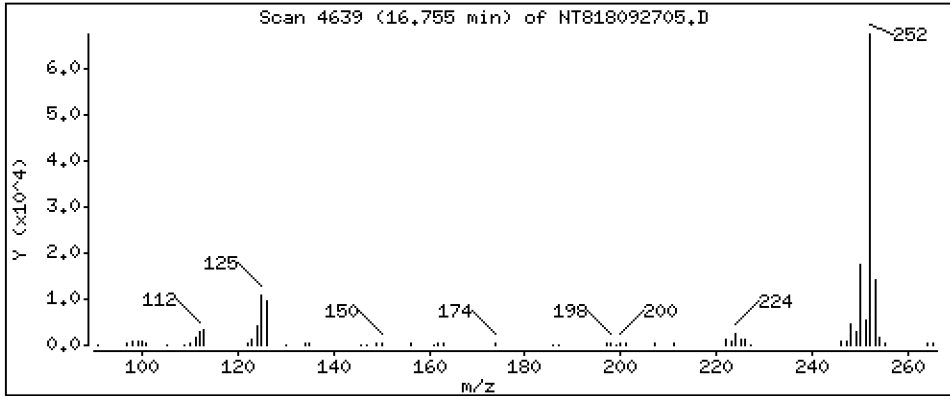
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 2,251 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180927.b\NT818092705.D
 Lab Smp Id: BGI0618-BSD1
 Inj Date : 27-SEP-2018 14:02
 Operator : JZ Inst ID: nt8.i
 Smp Info : BGI0618-BSD1,
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Meth Date : 27-Sep-2018 14:12 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.325	4.331	(1.000)	144460	2.00000	
2 Naphthalene	128		4.354	4.360	(1.007)	131281	1.66742	1.667
\$ 3 2-Methylnaphthalene-d10	152		5.046	5.052	(1.167)	84918	1.66217	1.662
4 2-Methylnaphthalene	141		5.090	5.097	(1.177)	74187	1.68039	1.680
5 1-methylnaphthalene	141		5.286	5.290	(1.222)	77264	1.69983	1.700
9 Acenaphthylene	152		6.459	6.466	(0.983)	115067	1.43269	1.433
* 10 Acenaphthene-d10	164		6.573	6.576	(1.000)	75721	2.00000	
11 Acenaphthene	153		6.621	6.624	(1.007)	96533	1.78304	1.783
12 Dibenzofuran	168		6.769	6.772	(1.030)	141013	1.88021	1.880
14 Fluorene	166		7.237	7.244	(1.101)	117664	1.89424	1.894
* 15 Phenanthrene-d10	188		8.572	8.575	(1.000)	150926	2.00000	
16 Phenanthrene	178		8.606	8.610	(1.004)	193741	2.38024	2.380
17 Anthracene	178		8.644	8.648	(1.008)	170914	2.14471	2.145
22 Fluoranthene	202		10.219	10.222	(1.192)	238584	2.52110	2.521
\$ 21 Fluoranthene-d10	212		10.187	10.187	(1.188)	228206	2.39422	2.394
23 Pyrene	202		10.665	10.668	(0.819)	245546	2.54519	2.545
24 Benzo(a)anthracene	228		12.907	12.913	(0.991)	217558	2.33215	2.332
* 25 Chrysene-d12	240		13.027	13.027	(1.000)	162139	2.00000	
27 Chrysene	228		13.093	13.096	(1.005)	235519	2.67118	2.671
28 Benzo(b)fluoranthene	252		15.468	15.474	(0.927)	226274	3.41938	3.419
29 Benzo(k)fluoranthene	252		15.525	15.531	(0.930)	217936	3.32625	3.326
30 Benzo(j)fluoranthene	252		15.604	15.604	(0.935)	188161	3.02968	3.030
31 Total Benzofluoranthenes	252		15.468	15.531	(0.927)	629415	9.79989	9.800 (M)
32 Benzo(a)pyrene	252		16.461	16.464	(0.986)	146487	2.45397	2.454
* 33 Perylene-d12	264		16.688	16.695	(1.000)	106116	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.952	18.959	(1.136)	192435	3.06011	3.060
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.870	18.873	(1.131)	153246	3.21918	3.219
38 Dibenzo(a,h)anthracene	278		18.952	18.956	(1.136)	158083	2.98486	2.985
39 Benzo(g,h,i)perylene	276		19.743	19.749	(1.183)	171474	3.33705	3.337
35 Perylene	252		16.755	16.764	(1.004)	138626	2.25114	2.251

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 27-SEP-2018
 Lab File ID: NT818092705.D Calibration Time: 10:58
 Lab Smp Id: BGI0618-BSD1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	144460	9.54
10 Acenaphthene-d10	72272	36136	144544	75721	4.77
15 Phenanthrene-d10	156058	78029	312116	150926	-3.29
25 Chrysene-d12	174389	87195	348778	162139	-7.02
33 Perylene-d12	150701	75351	301402	106116	-29.59

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.33	3.83	4.83	4.33	-0.15
10 Acenaphthene-d10	6.58	6.08	7.08	6.57	-0.05
15 Phenanthrene-d10	8.58	8.08	9.08	8.57	-0.04
25 Chrysene-d12	13.03	12.53	13.53	13.03	-0.00
33 Perylene-d12	16.70	16.20	17.20	16.69	-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.

ccal: //target/share/chem3/nt8.i/20180927.b/NT818092702.D
REVIEW SUMMARY FOR FILE - NT818092705.D

Lab ID: BGI0618-BSD1
nt8.i, 20180927.b\FSIMPNA180803.m, 27-SEP-2018 14:02

RT	CO-ELUTION COMPOUNDS
18.953	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
18.953	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.983	1.221	-0.2385	1-methylnaphthalene
1.007	1.332	-0.3249	2-Chloronaphthalene
1.030	0.875	0.1548	Biphenyl
1.101	0.880	0.2207	2,6-Dimethylnaphthalene
1.004	0.983	0.0209	Acenaphthylene
1.192	1.030	0.1624	Dibenzofuran
0.819	1.041	-0.2222	1,6,7-Trimethylnaphthalene
0.991	1.101	-0.1107	Fluorene
1.005	0.986	0.0195	Dibenzothiophene
0.927	1.004	-0.0772	Phenanthrene
0.930	1.008	-0.0782	Anthracene
0.935	1.068	-0.1332	Carbazole
0.986	1.091	-0.1044	1-Methylphenanthrene
1.136	1.192	-0.0564	Fluoranthene
1.136	0.819	0.3167	Pyrene
1.183	0.991	0.1918	Benzo(a)anthracene
1.222	1.005	0.2169	Chrysene
1.004	0.930	0.0737	Benzo(k)fluoranthene
1.000	0.935	0.0654	Benzo(j)fluoranthene
1.000	0.930	0.0697	Total Benzofluoranthenes
1.000	0.979	0.0208	Benzo(e)pyrene
1.000	0.986	0.0138	Benzo(a)pyrene
1.167	1.136	0.0311	Indeno(1,2,3-cd)pyrene
1.188	1.183	0.0055	Benzo(g,h,i)perylene
0.000	1.000	-1.0000	Naphthalene-d8
0.000	1.000	-1.0000	Acenaphthene-d10
0.000	1.000	-1.0000	Phenanthrene-d10
0.000	1.000	-1.0000	Chrysene-d12
0.000	1.000	-1.0000	Perylene-d12
0.000	1.166	-1.1664	2-Methylnaphthalene-d10
0.000	1.188	-1.1881	Fluoranthene-d10
0.000	1.130	-1.1305	Dibenzo(a,h)anthracene-d14

RRT check based on Ccal File: NT818092702.D

On Column LOD for nt8.i, 20180927.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

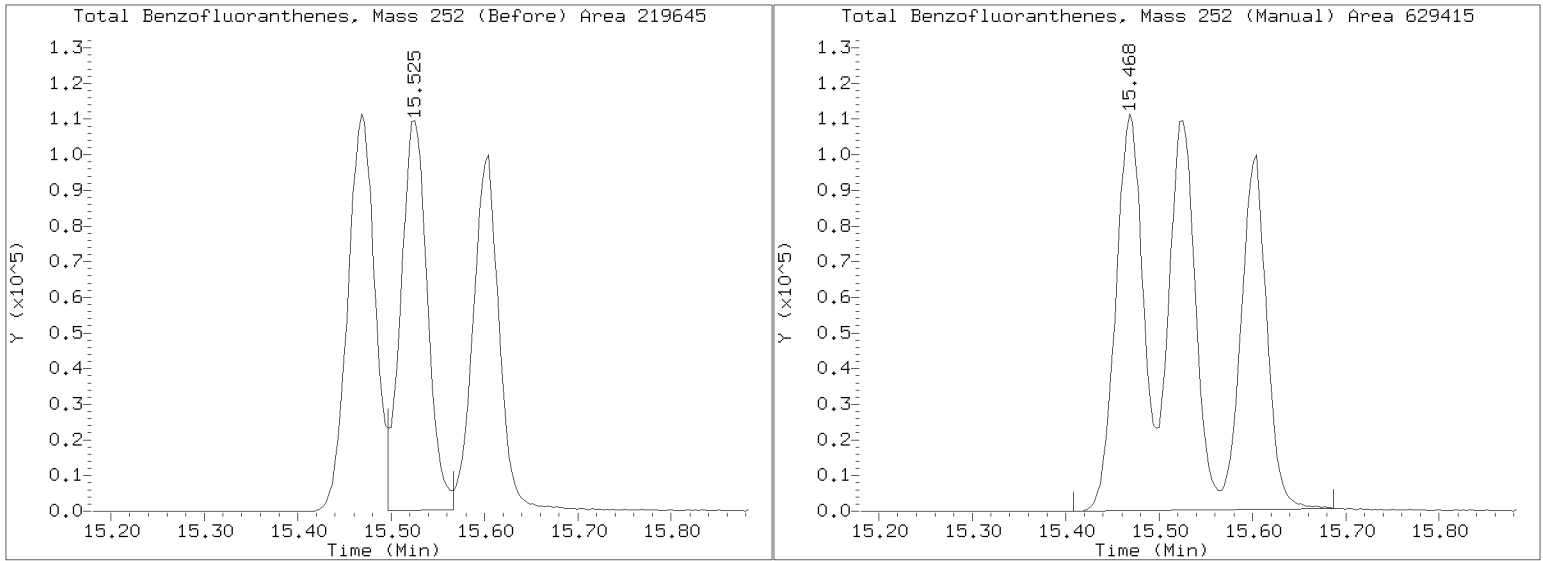
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180927.b/NT818092705.D

Injection Date: 27-SEP-2018 14:02

Lab ID: BGI0618-BSD1 Client ID:

Report Date: 09/27/2018 14:38





LCS / LCS DUPLICATE RECOVERY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Solid

Analyzed: 10/03/18 12:20

Batch: BGI0708

Laboratory ID: BGI0708-BS1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS

Initial/Final: 10 g / 0.5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Naphthalene	300	172		57.2	36 - 120
2-Methylnaphthalene	300	175		58.3	35 - 120
1-Methylnaphthalene	300	172		57.2	39 - 120
Acenaphthylene	300	162		54.1	35 - 120
Acenaphthene	300	174		58.0	39 - 120
Fluorene	300	178		59.2	41 - 120
Phenanthrene	300	205		68.3	46 - 120
Anthracene	300	198		66.1	36 - 120
Fluoranthene	300	220		73.2	46 - 120
Pyrene	300	221		73.8	49 - 120
Benzo(a)anthracene	300	226		75.3	42 - 120
Chrysene	300	236		78.6	48 - 120
Benzo(b)fluoranthene	300	223		74.3	35 - 127
Benzo(k)fluoranthene	300	225		75.1	37 - 129
Benzo(j)fluoranthene	300	215		71.8	40 - 120
Benzo(a)pyrene	300	206		68.7	36 - 120
Indeno(1,2,3-cd)pyrene	300	244		81.4	40 - 120
Dibenzo(a,h)anthracene	300	250		83.3	38 - 120
Benzo(g,h,i)perylene	300	254		84.8	38 - 120
Benzo(a)fluoranthenes, Total	900	666		74.0	46 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20181003.B\NT818100304.D

Date: 03-OCT-2018 12:20

Client ID:

Sample Info: BQ10708-BS1,

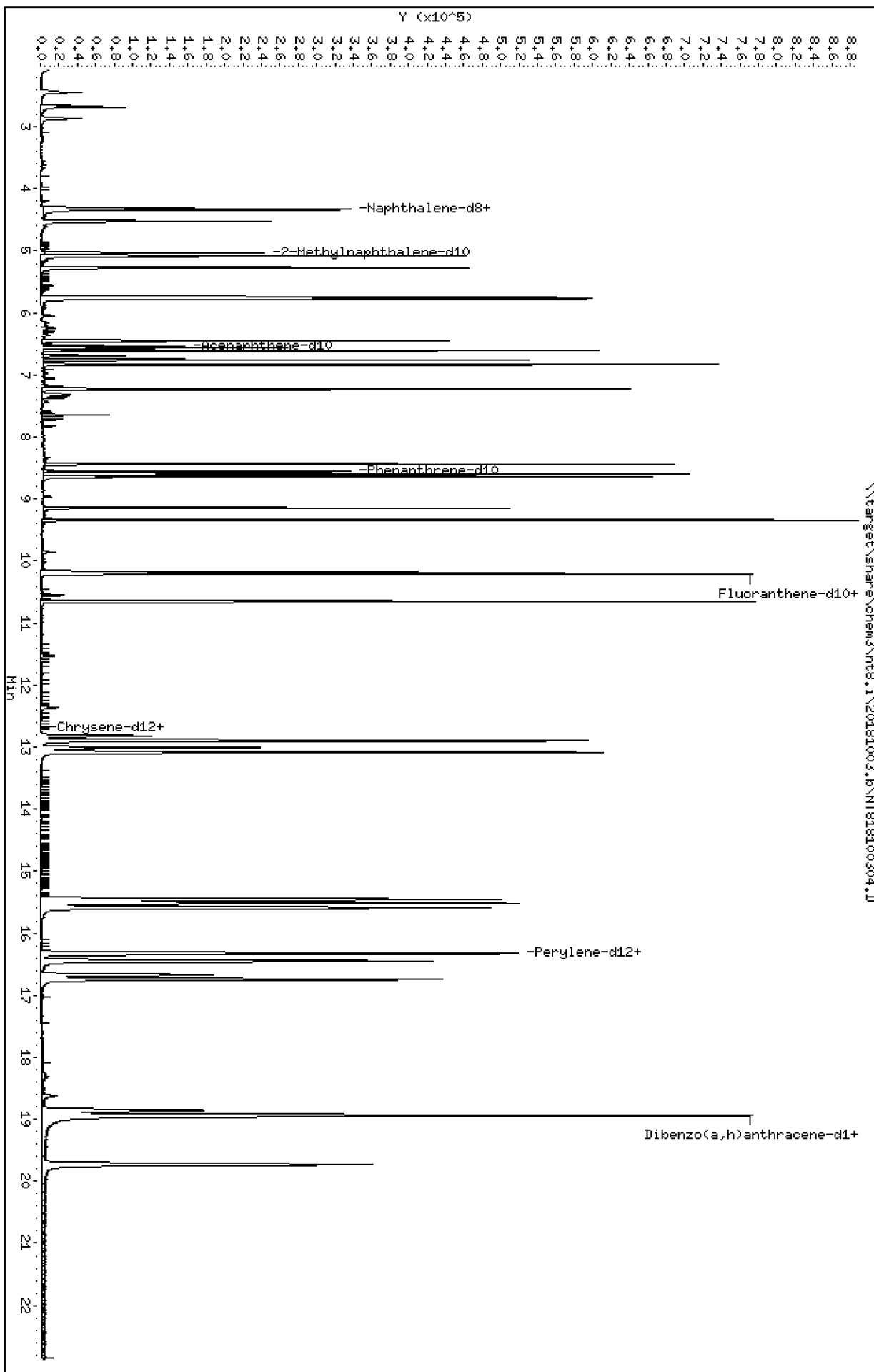
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

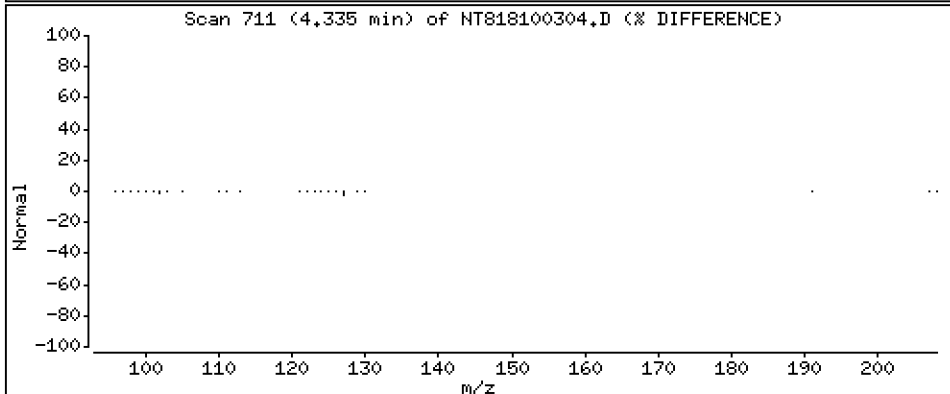
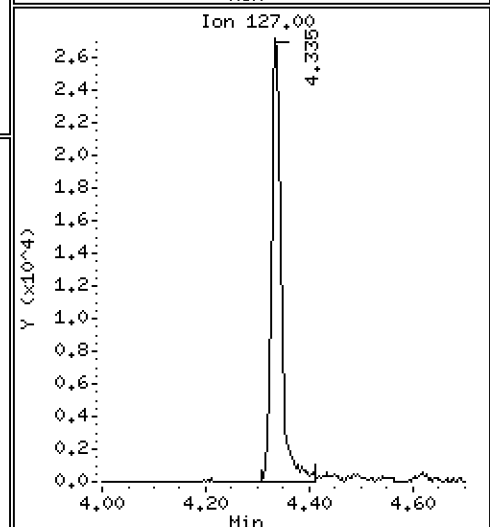
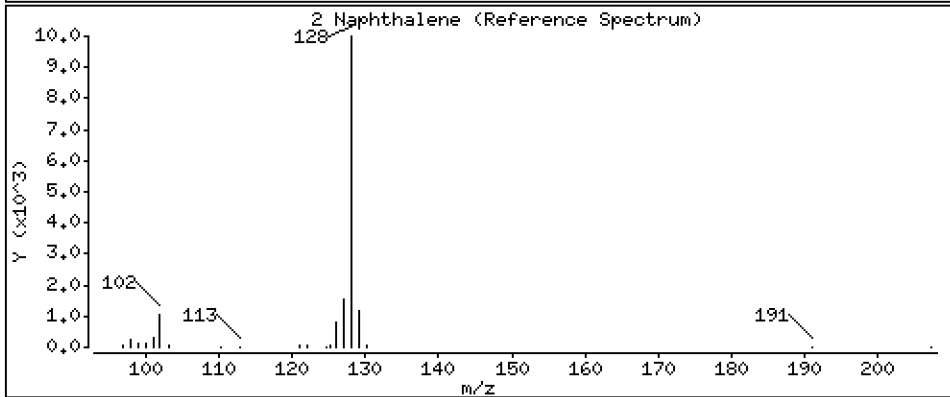
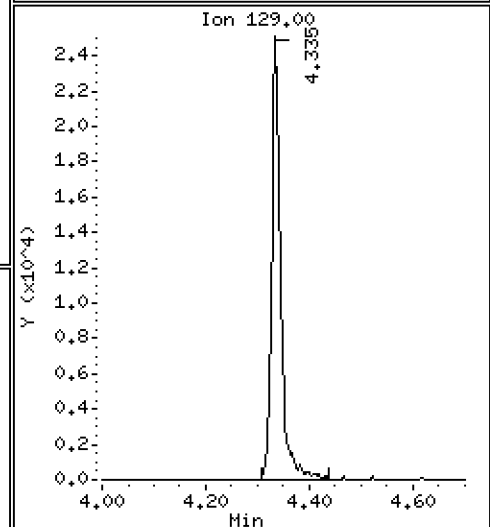
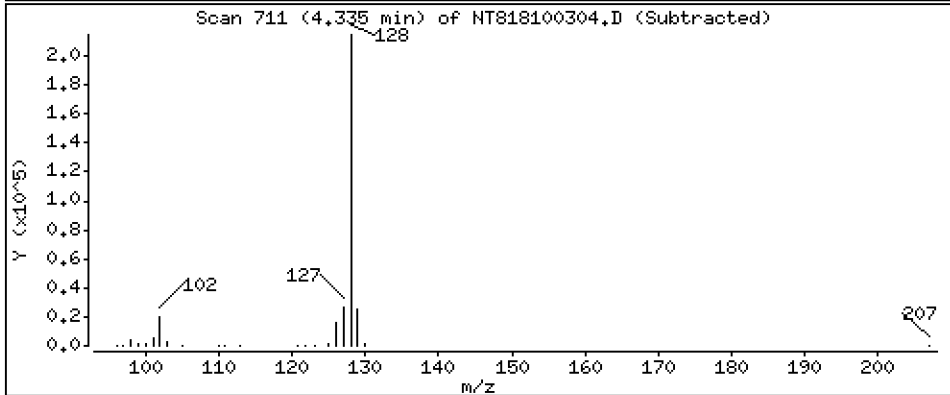
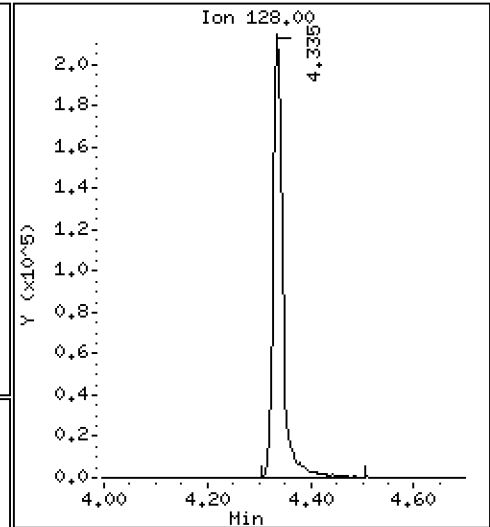
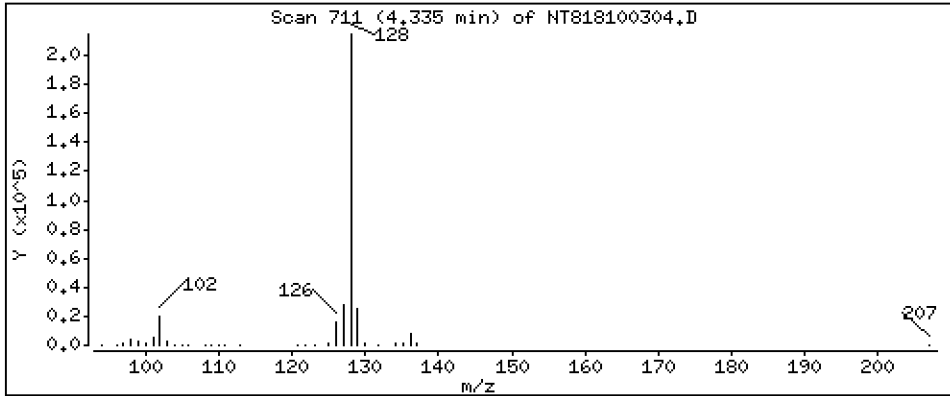
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 3.434 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

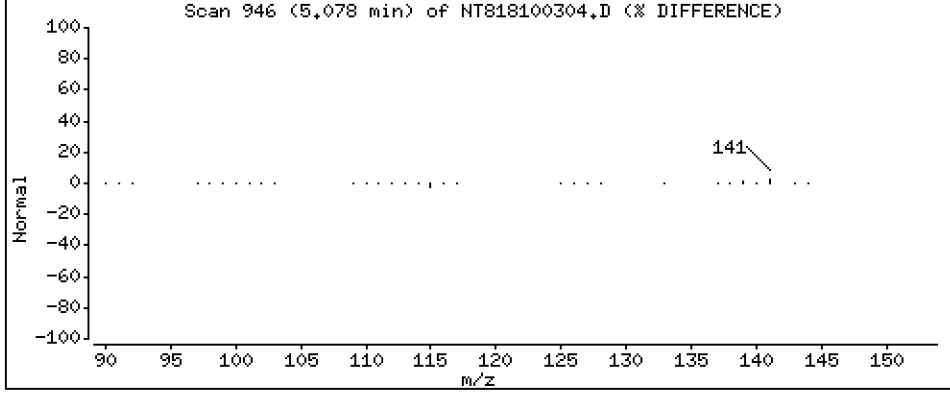
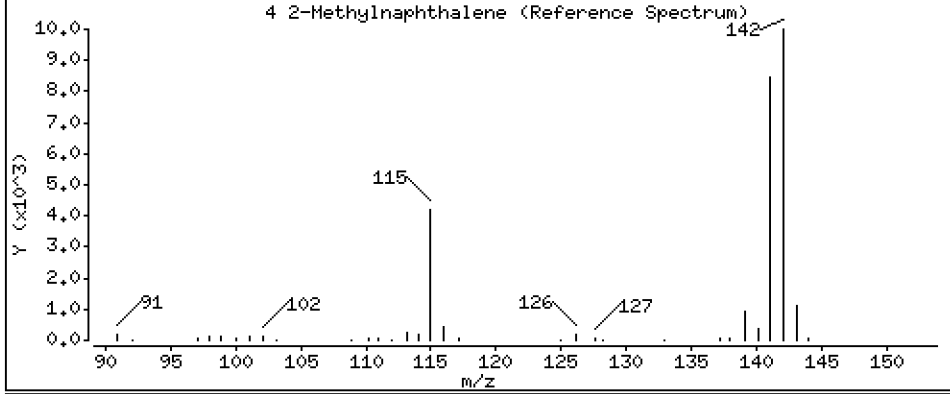
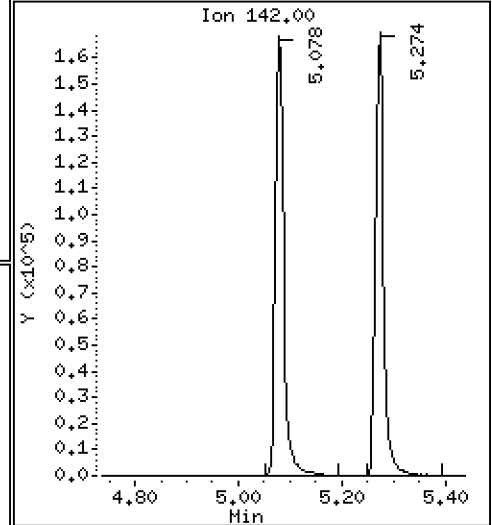
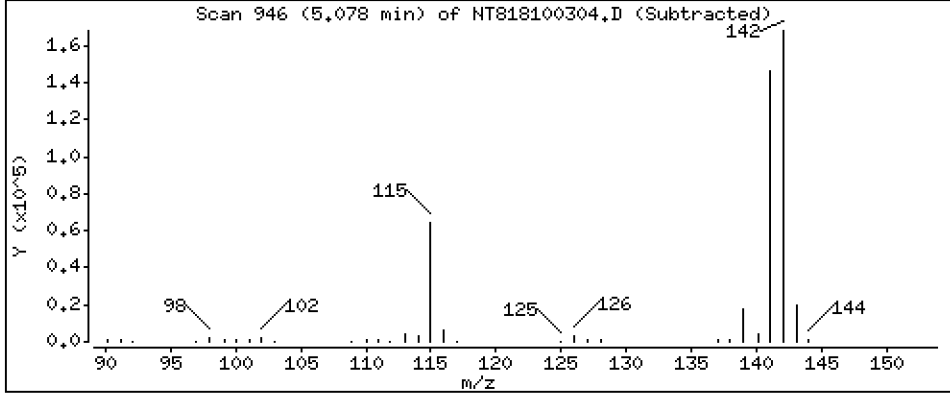
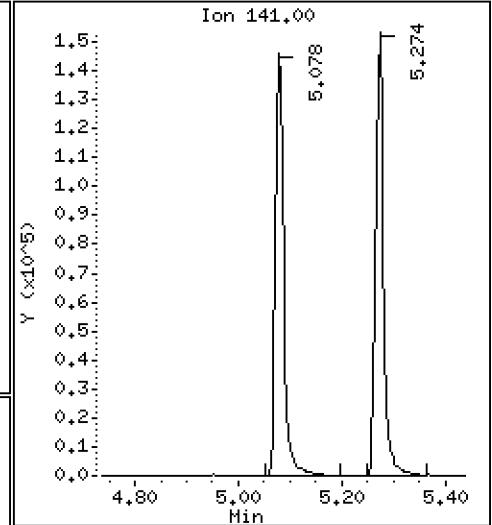
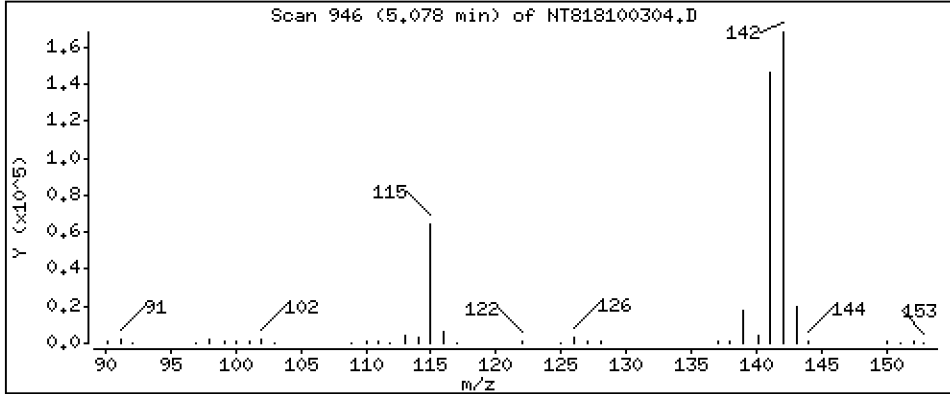
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4 2-Methylnaphthalene

Concentration: 3.498 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

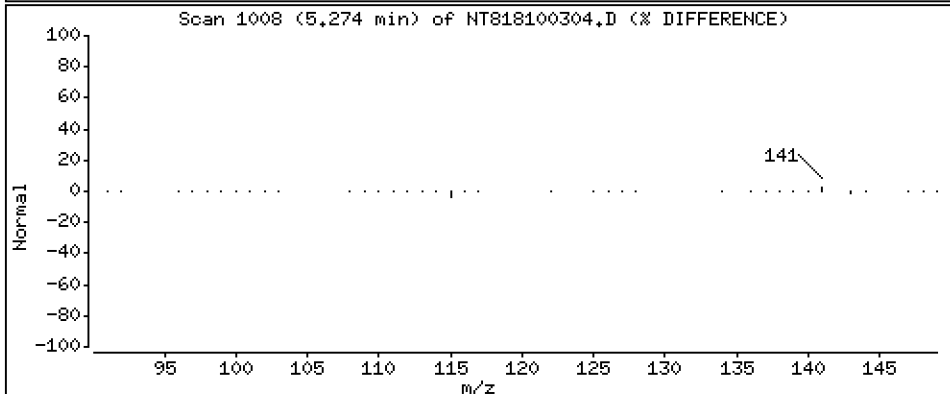
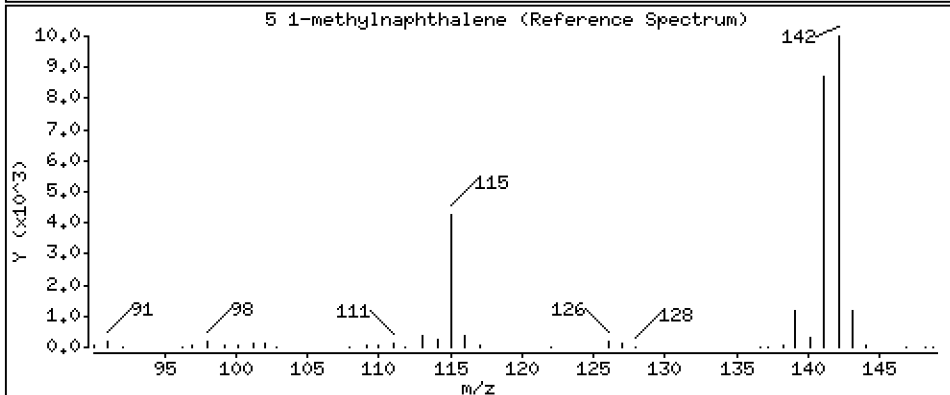
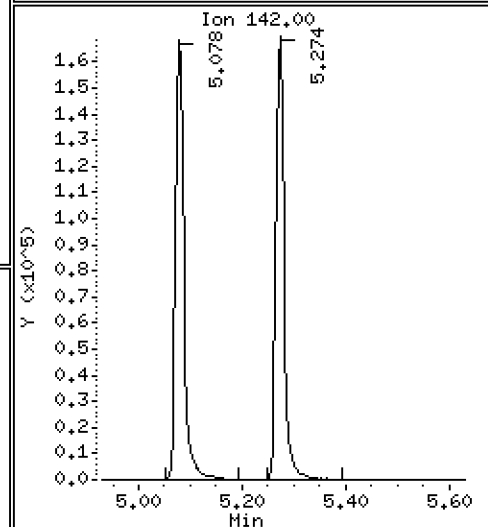
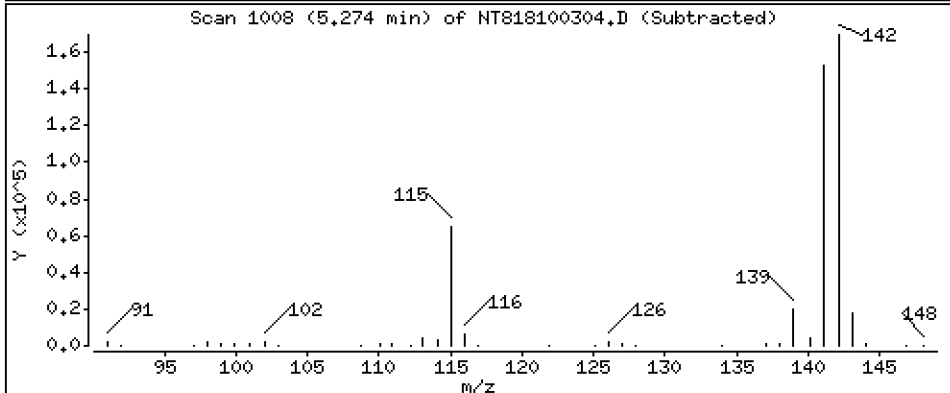
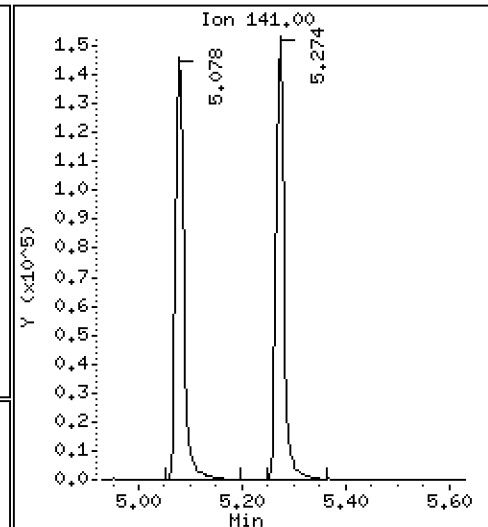
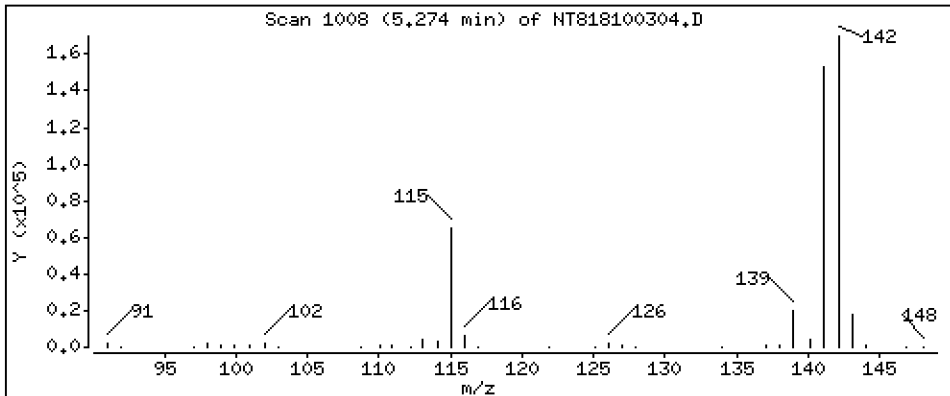
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

5 1-methylnaphthalene

Concentration: 3.431 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

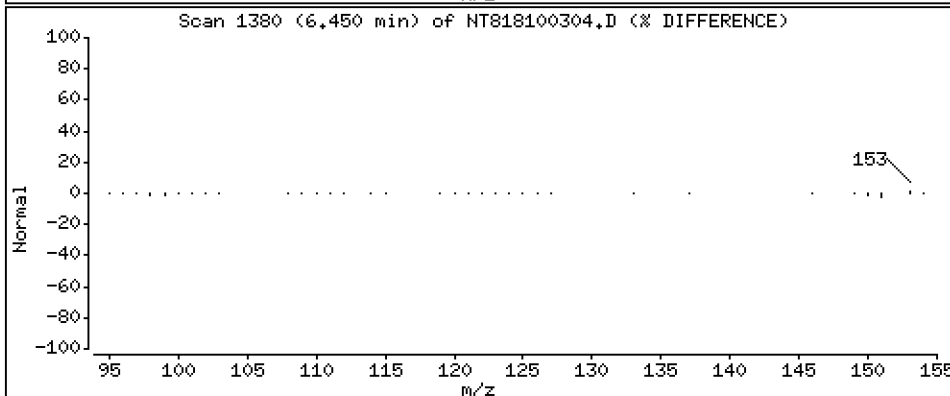
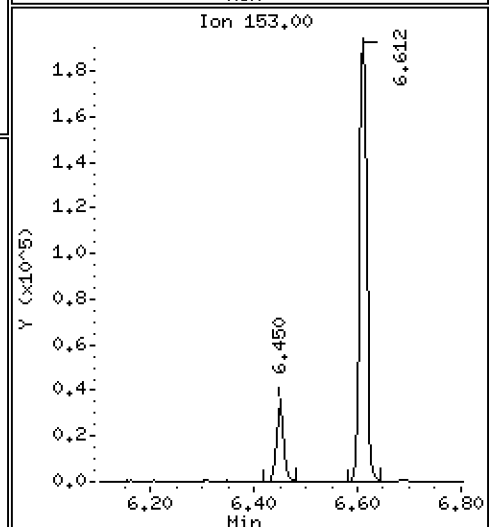
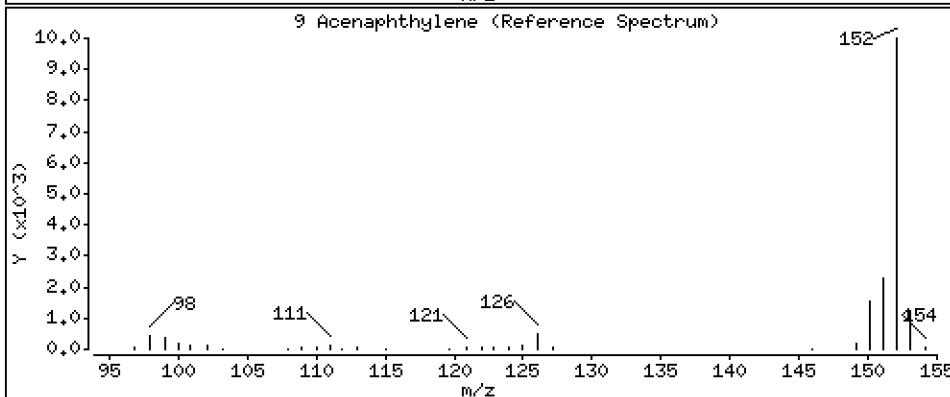
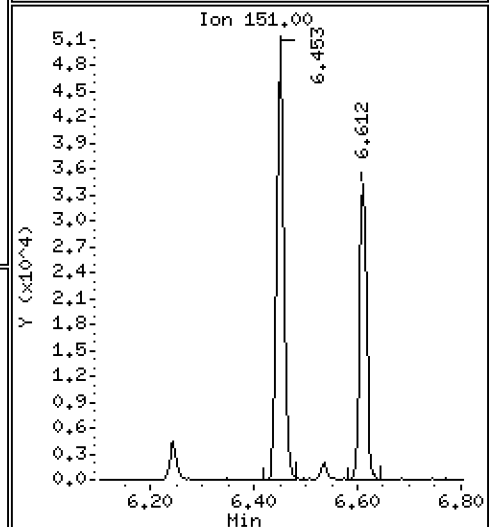
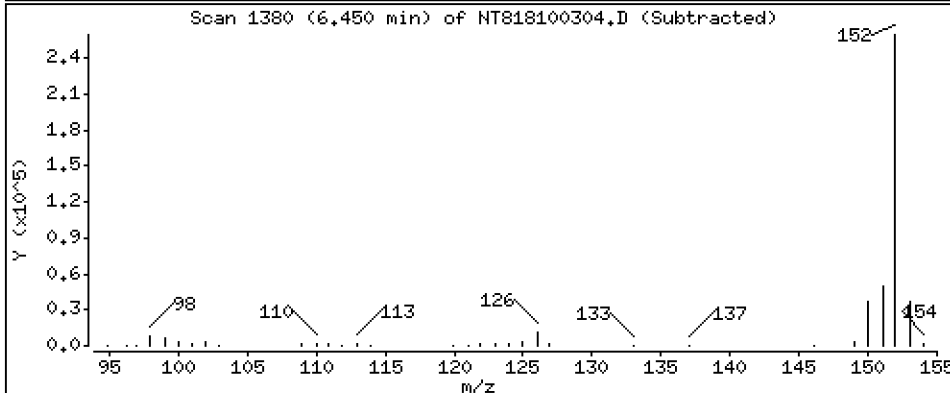
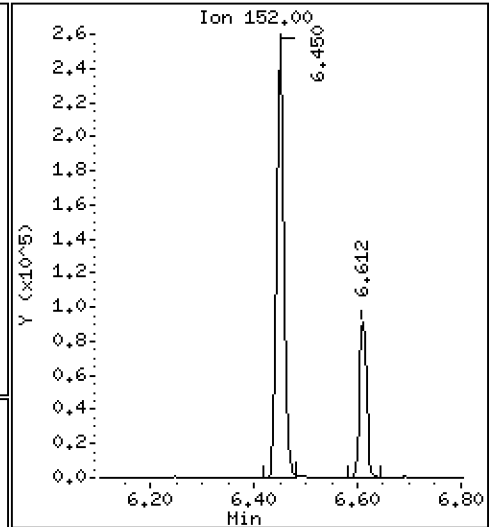
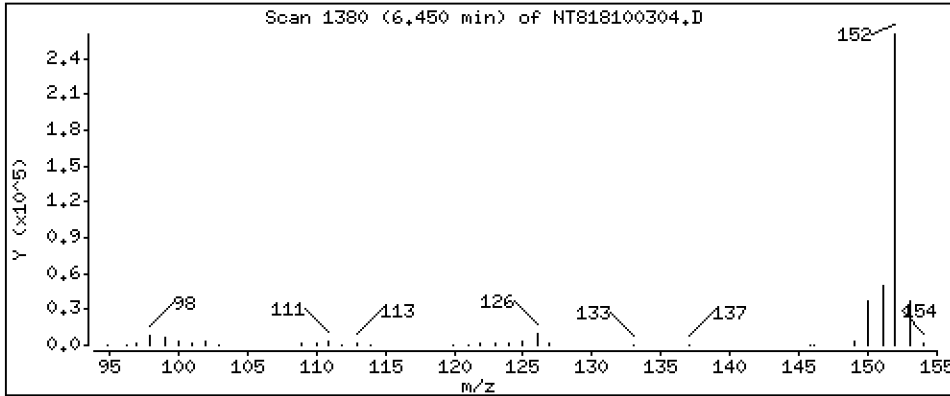
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

9 Acenaphthylene

Concentration: 3,247 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

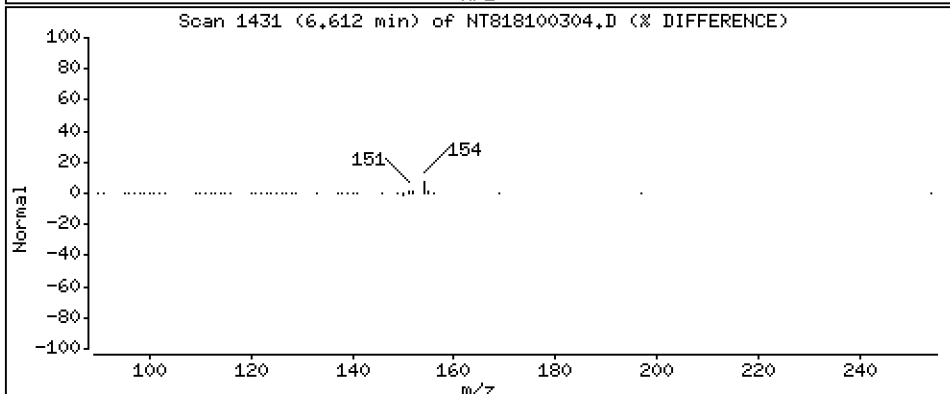
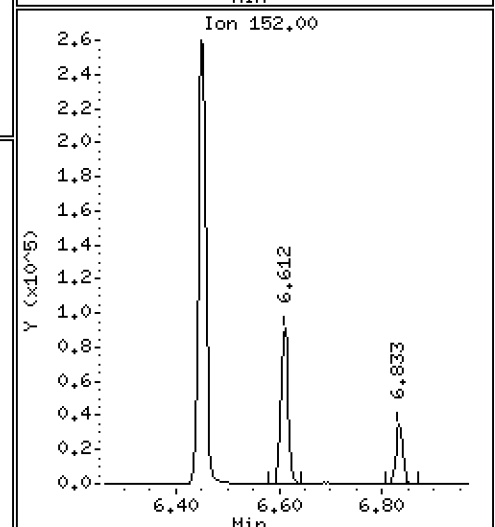
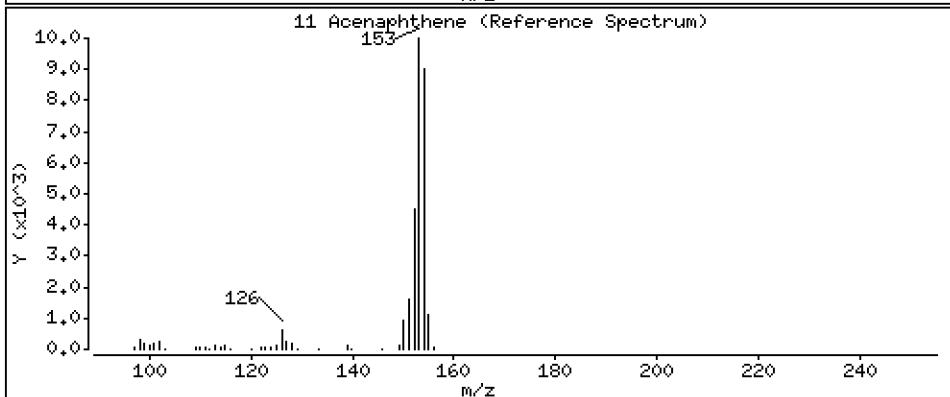
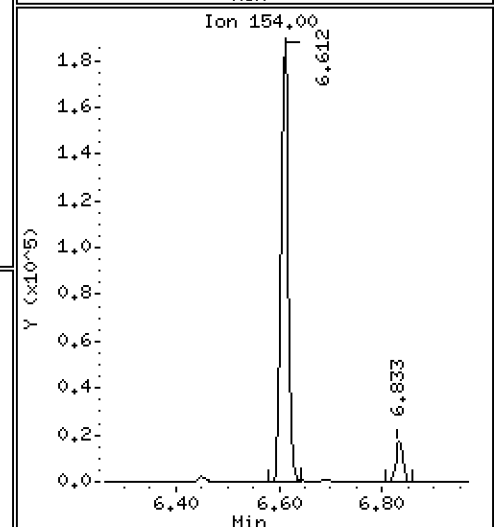
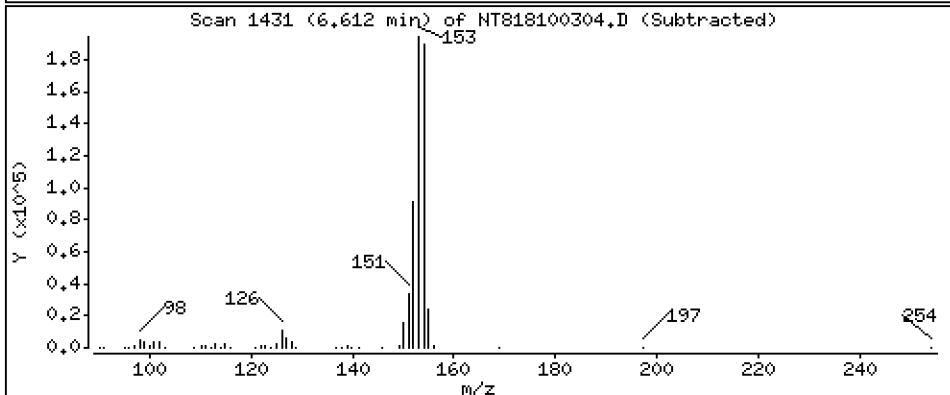
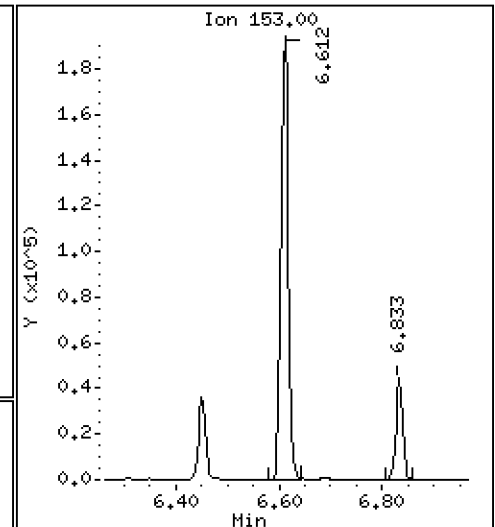
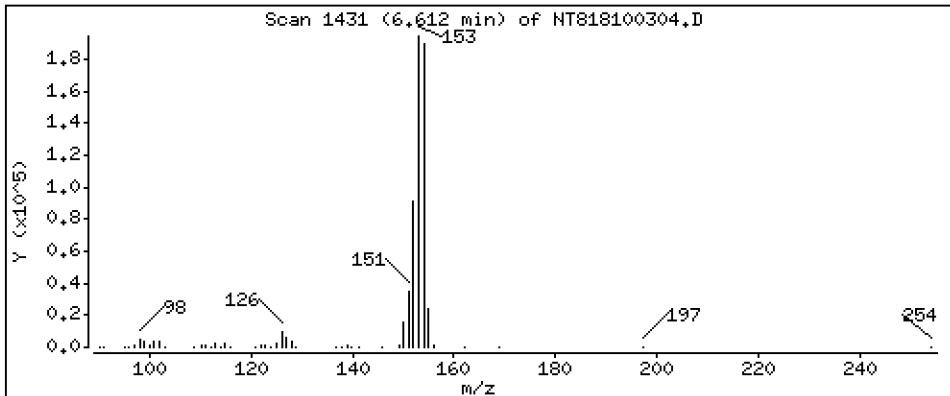
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

Concentration: 3.478 ug/mL

11 Acenaphthene



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

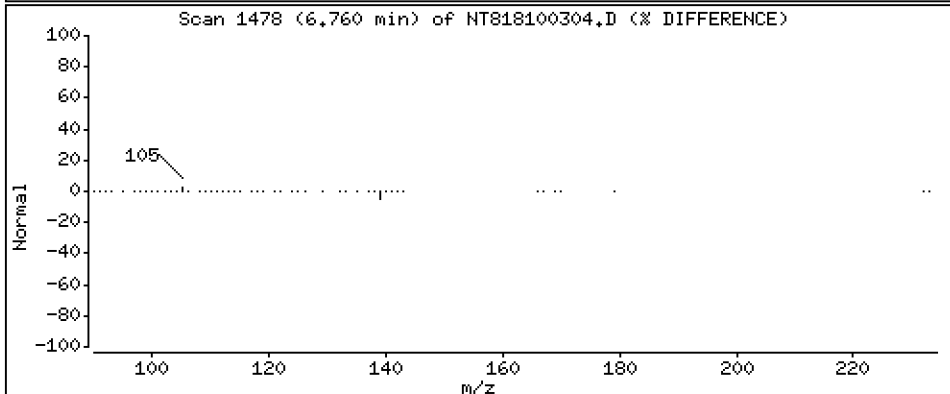
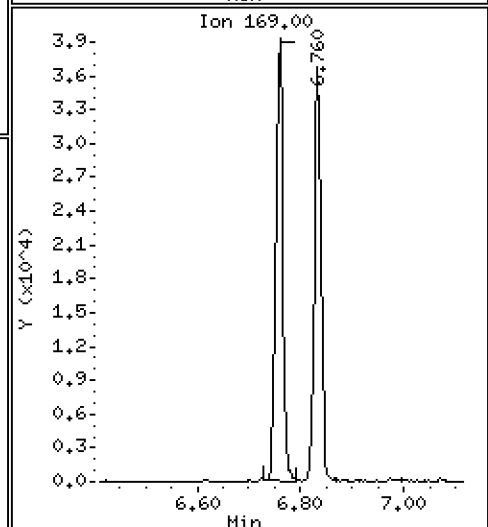
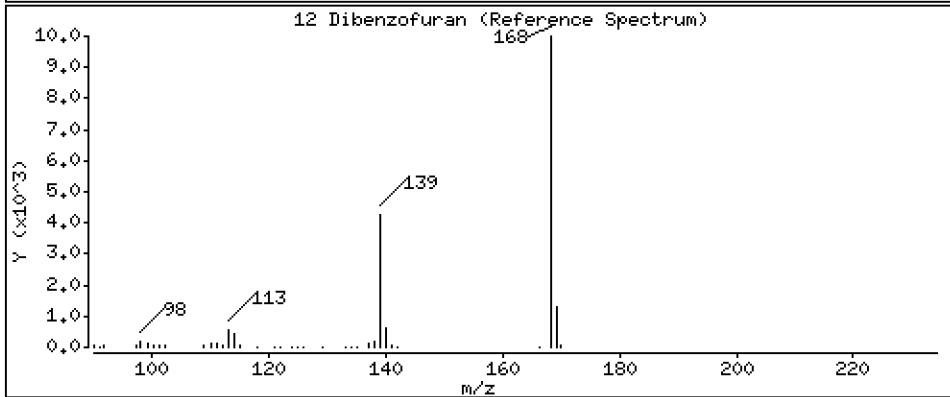
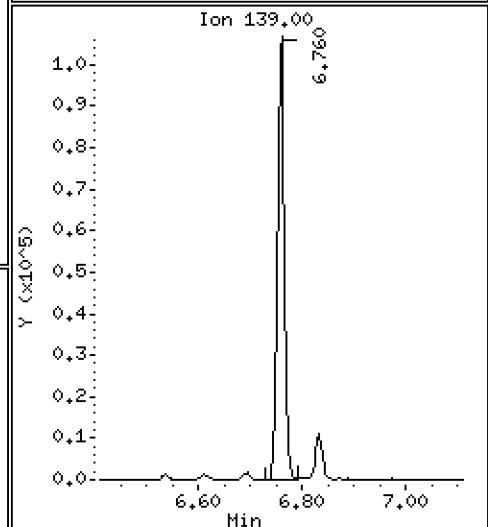
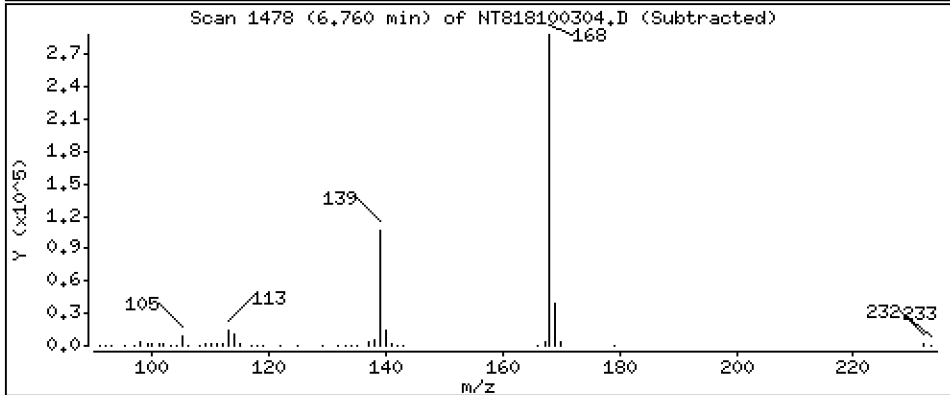
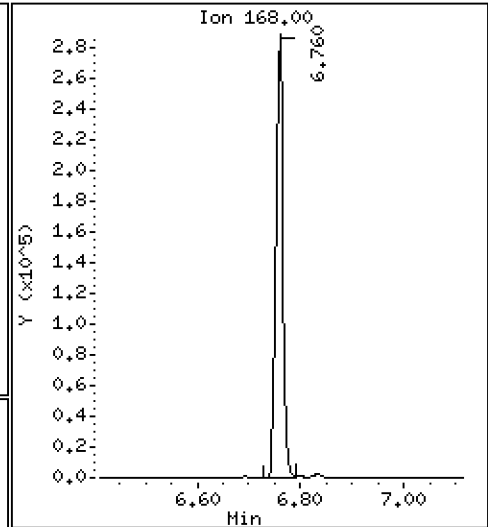
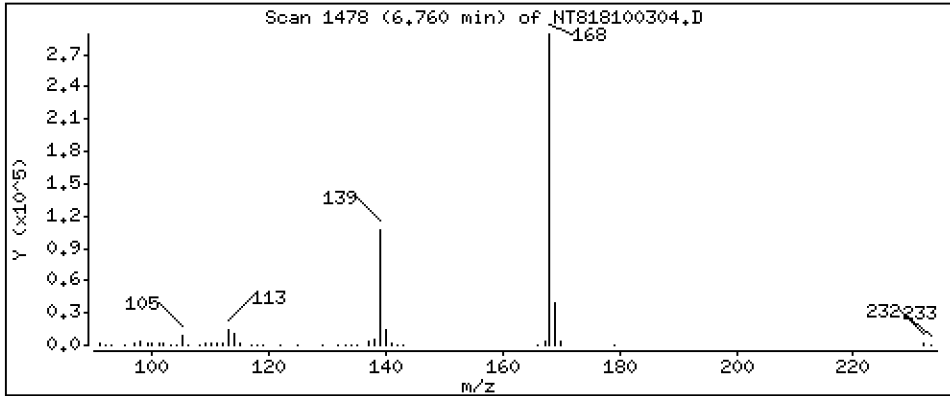
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

12 Dibenzofuran

Concentration: 3,519 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

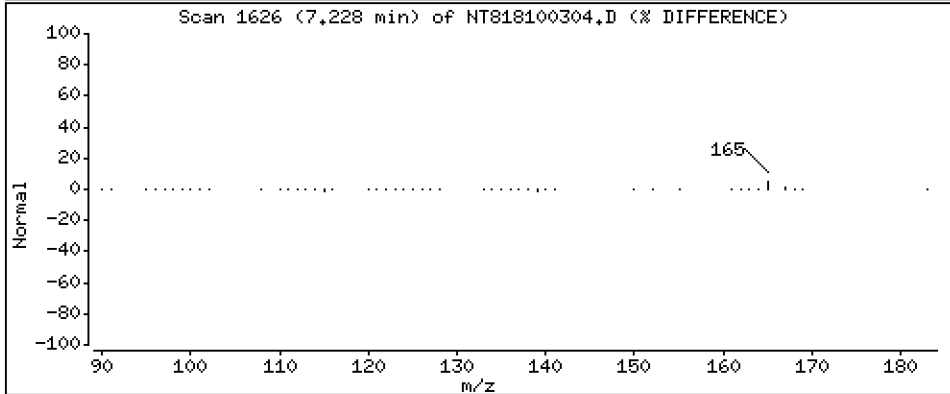
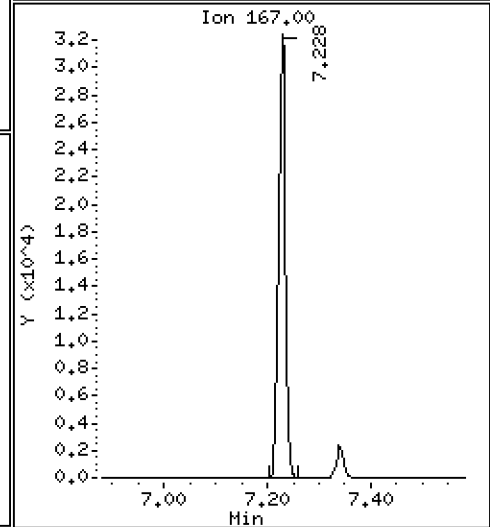
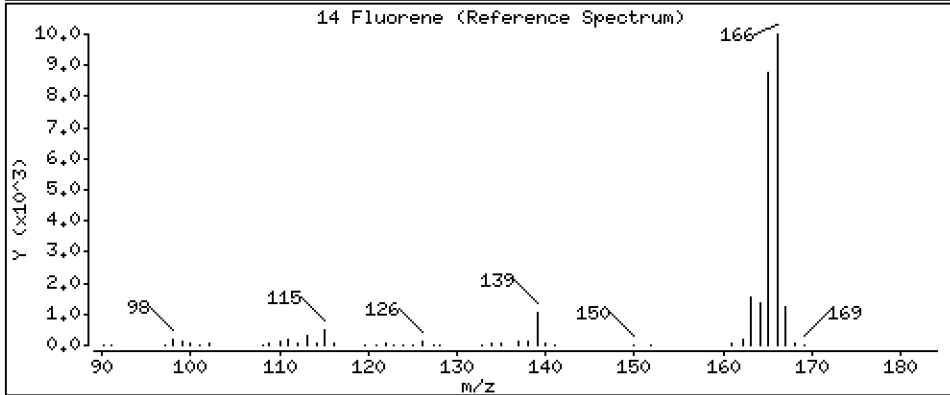
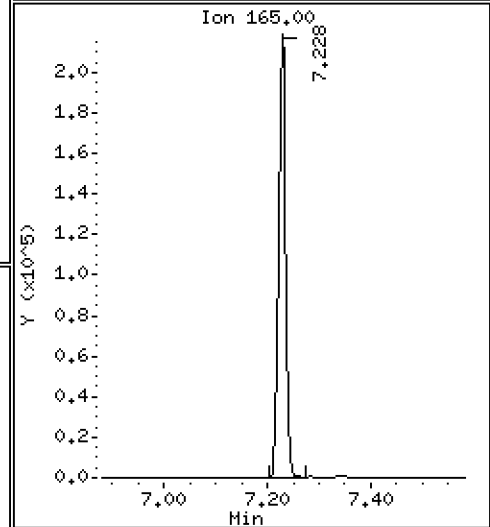
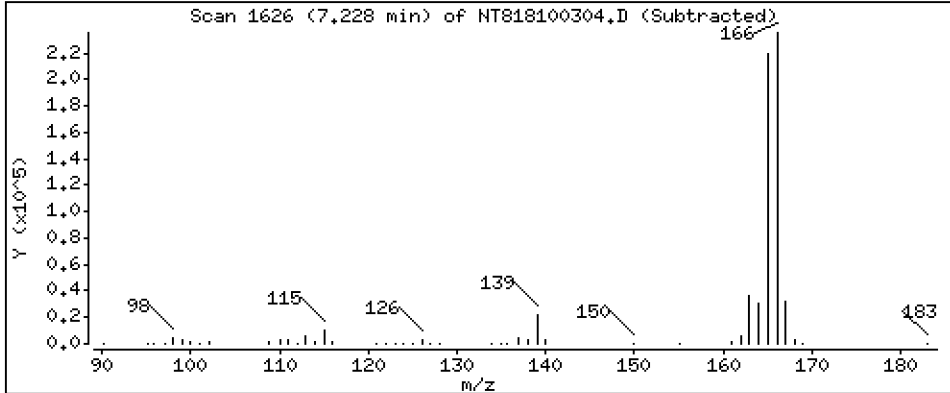
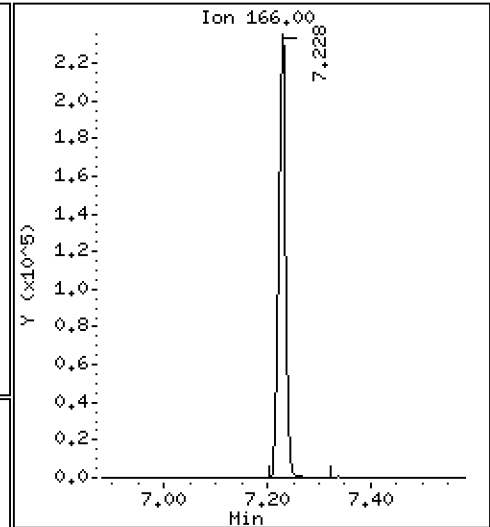
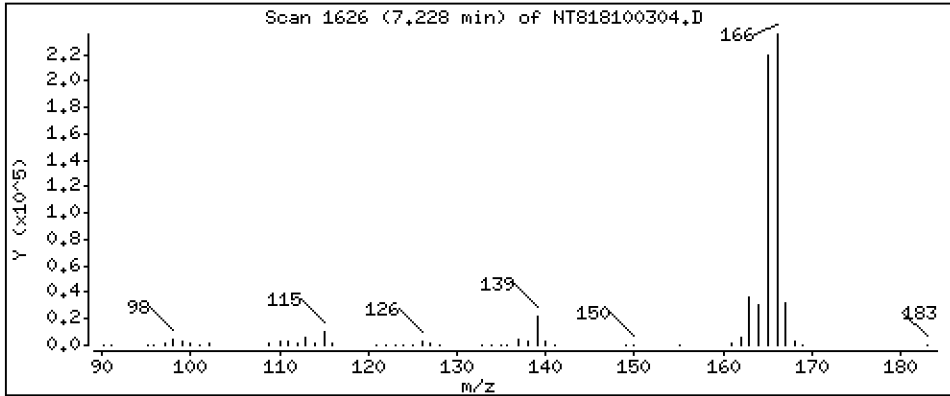
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

14 Fluorene

Concentration: 3,554 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

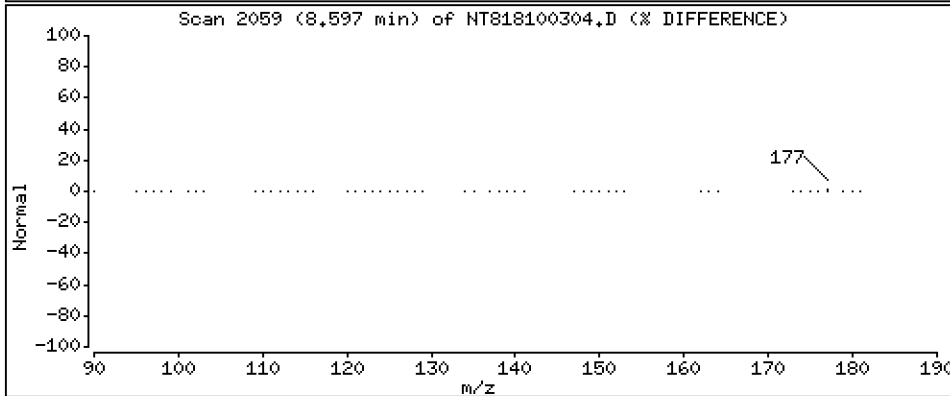
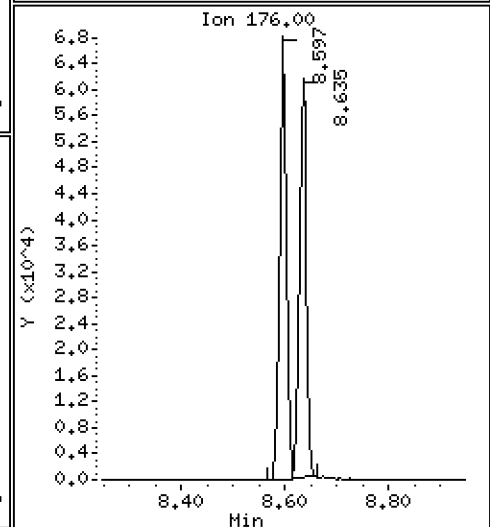
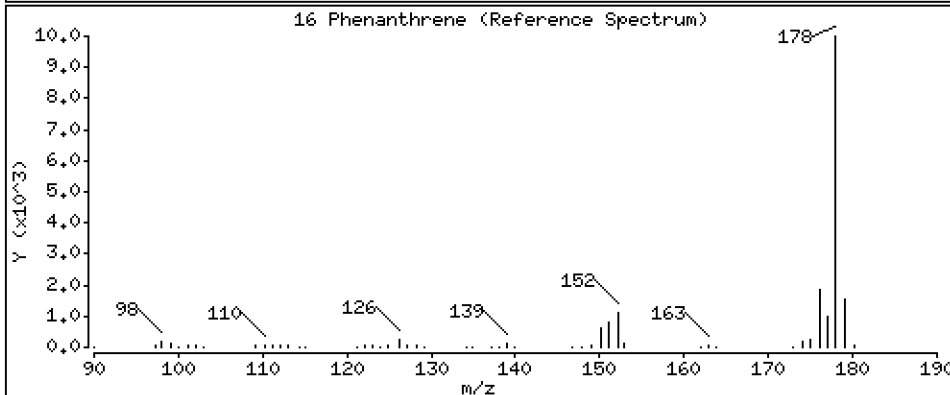
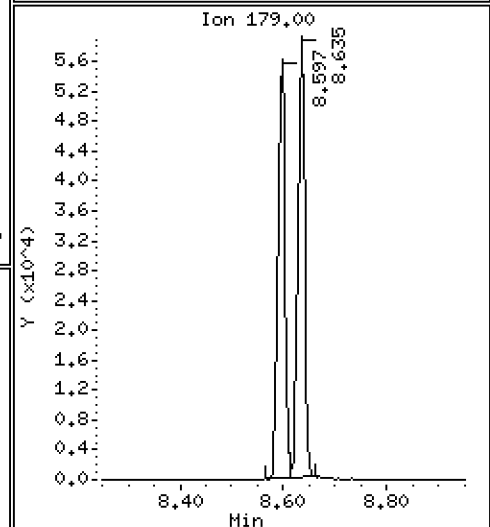
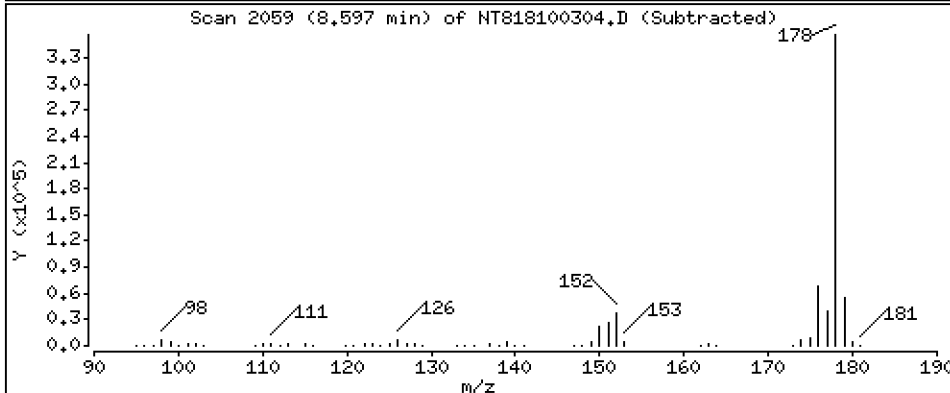
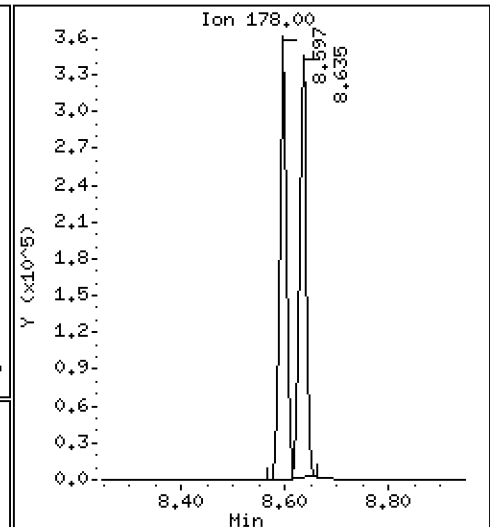
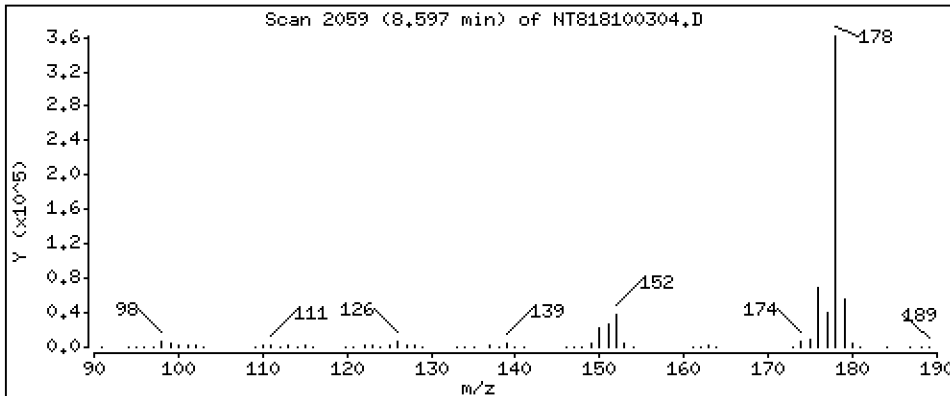
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

16 Phenanthrene

Concentration: 4.098 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

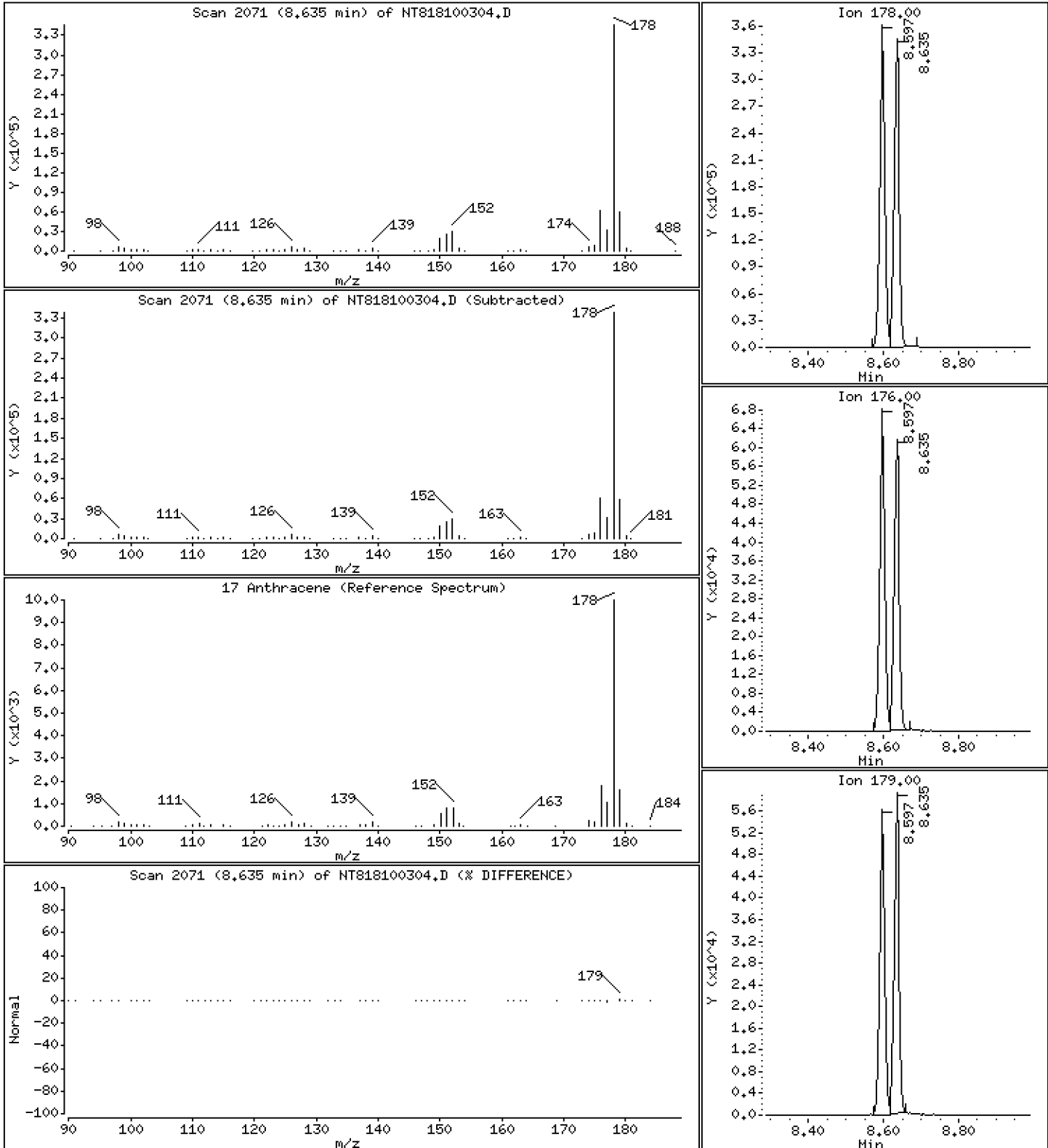
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

17 Anthracene

Concentration: 3.967 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

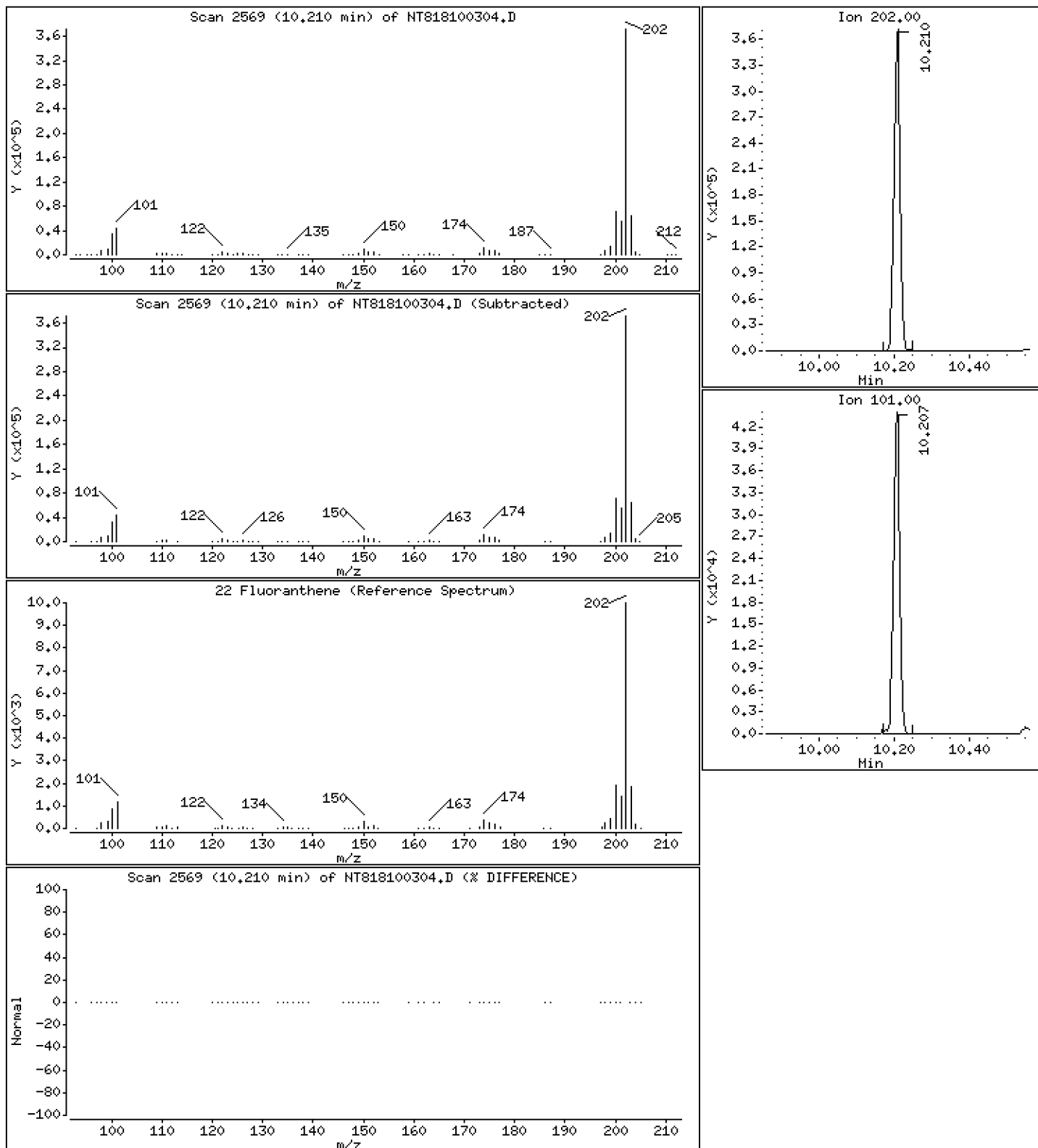
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 4,392 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

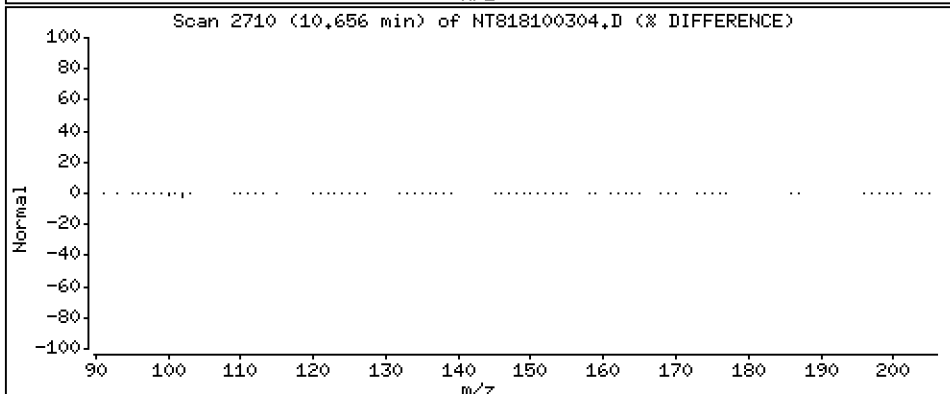
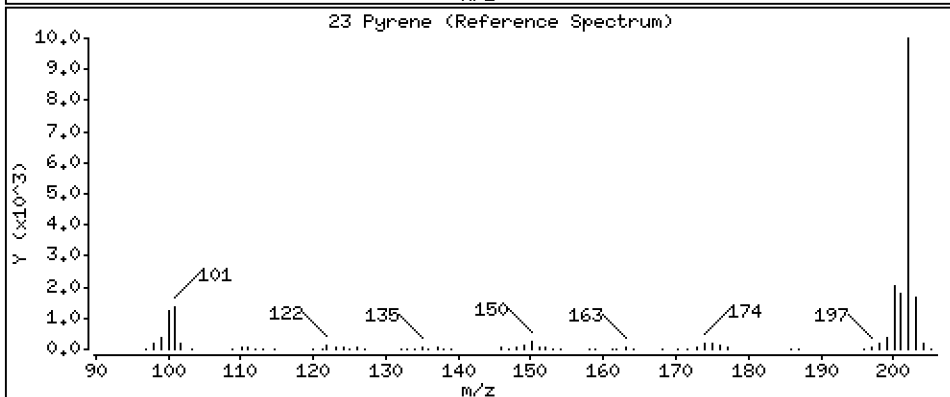
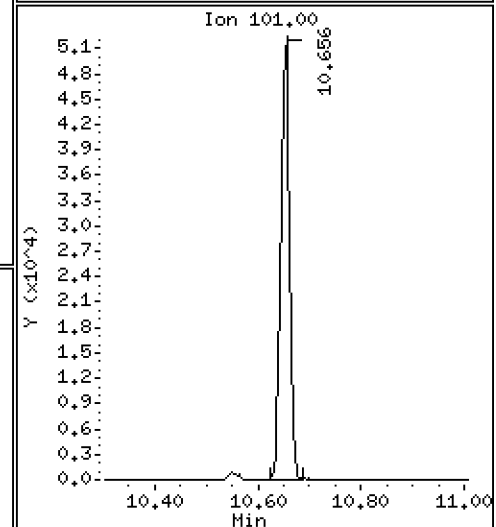
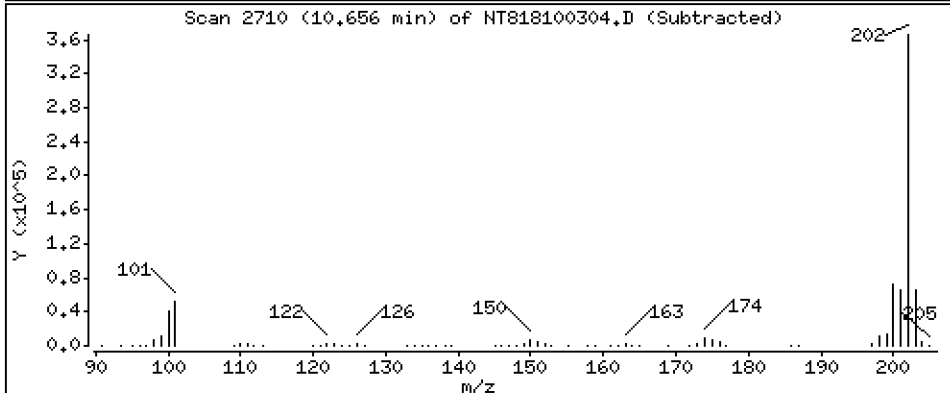
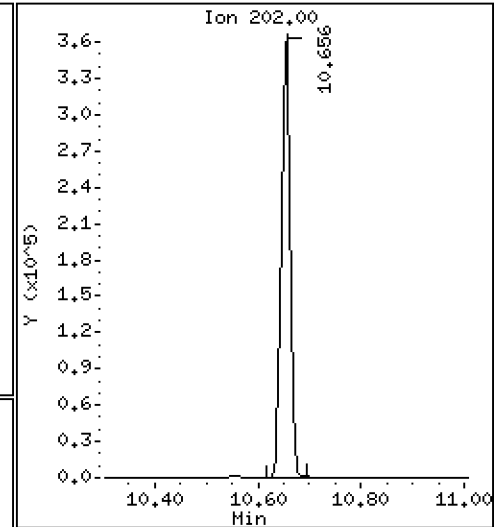
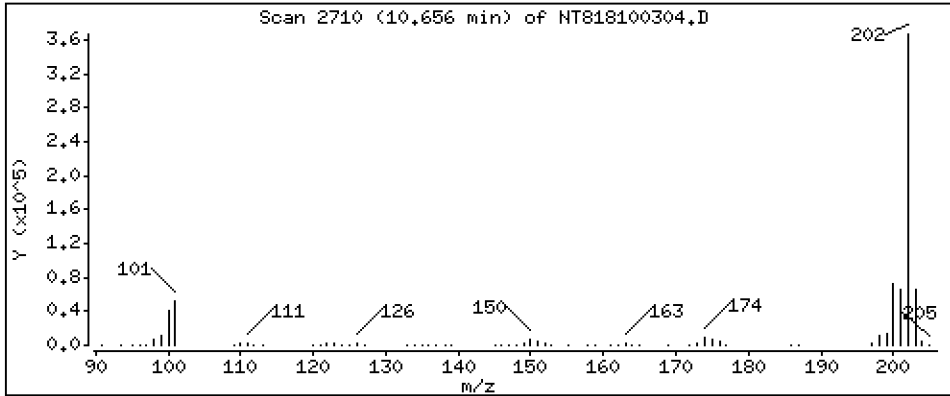
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 4,426 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

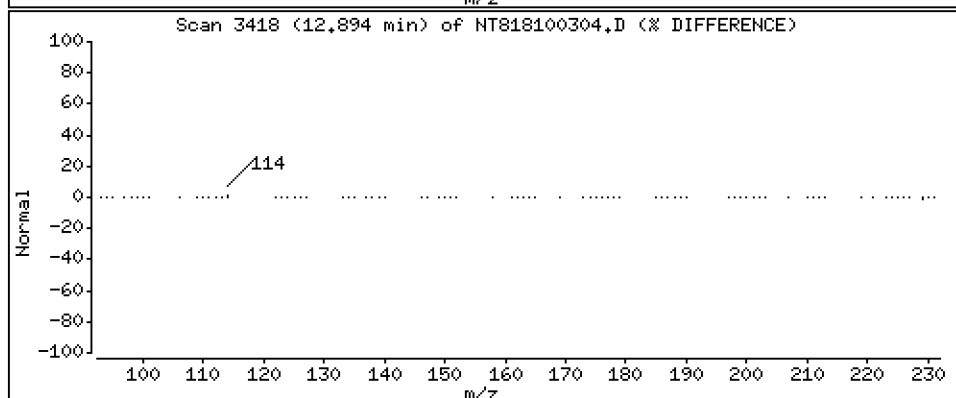
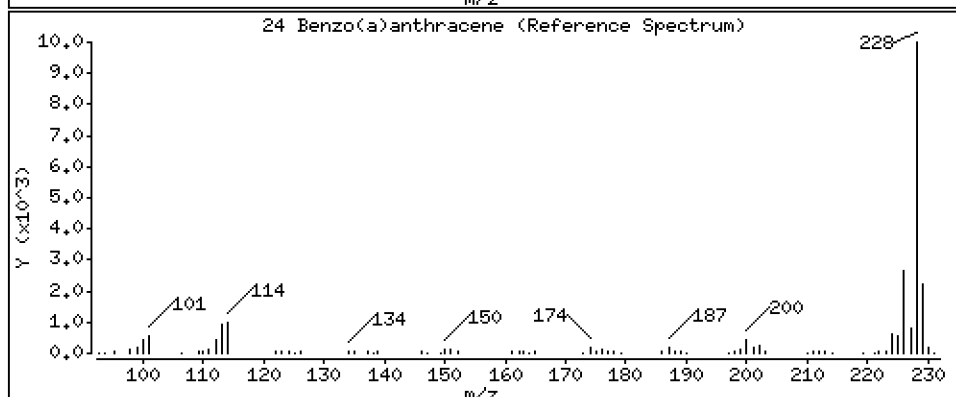
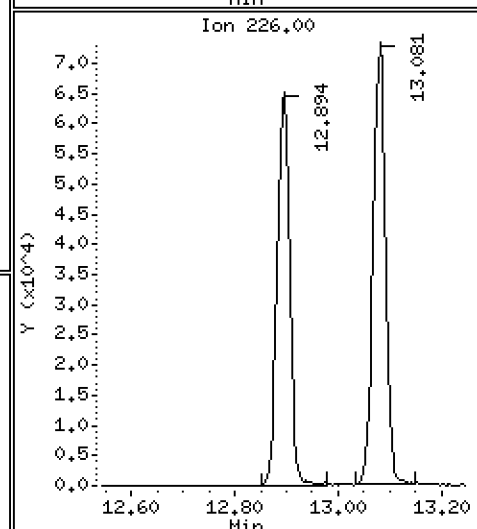
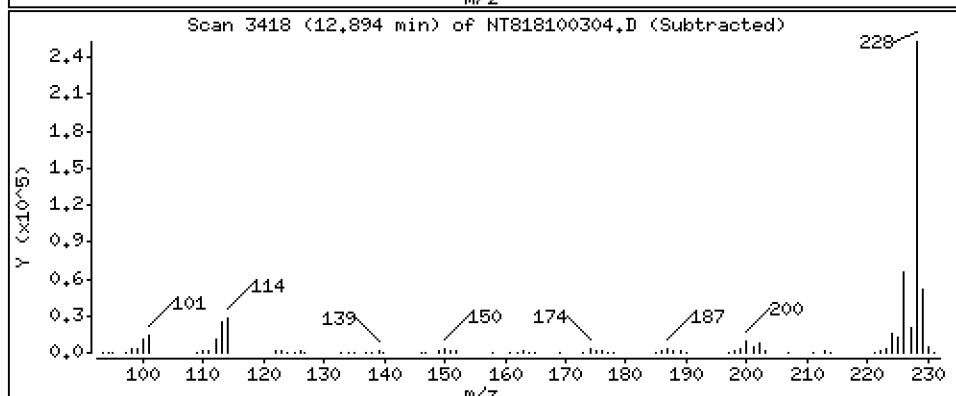
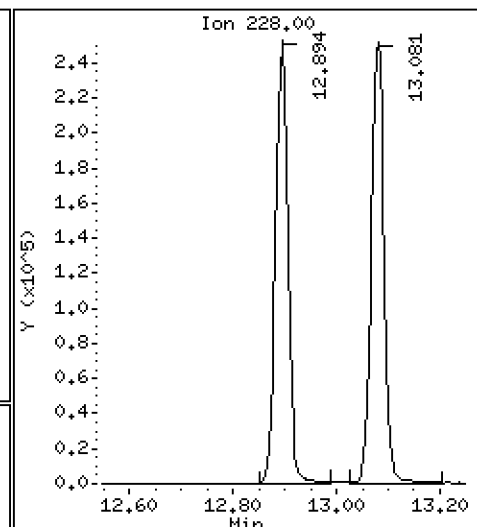
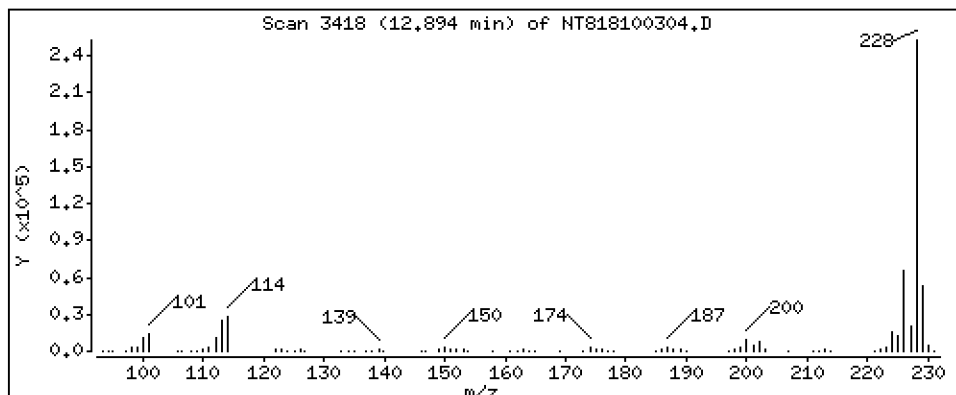
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 4,516 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

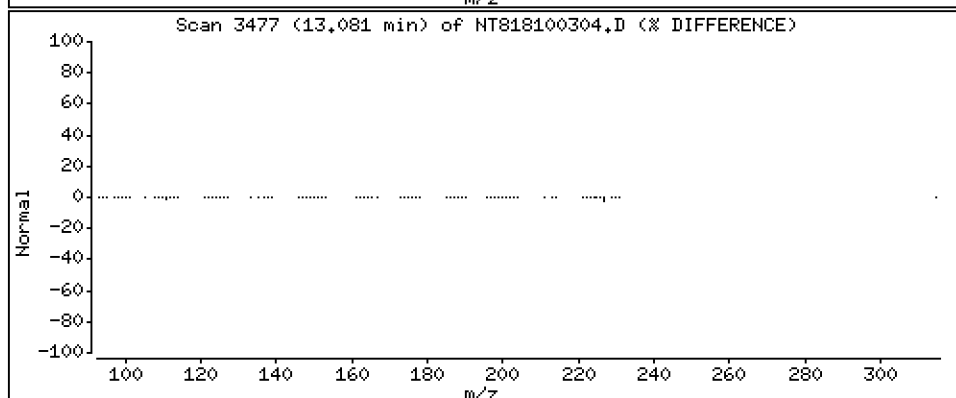
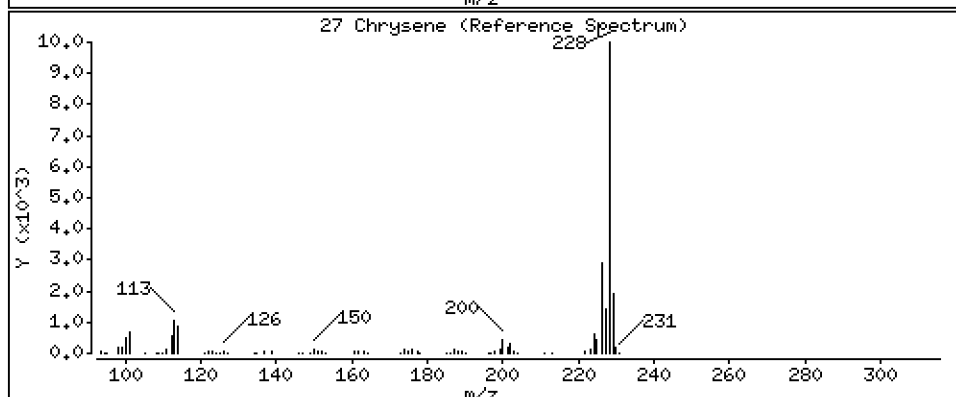
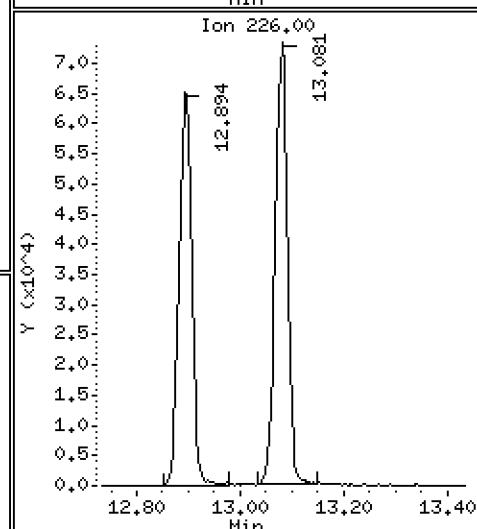
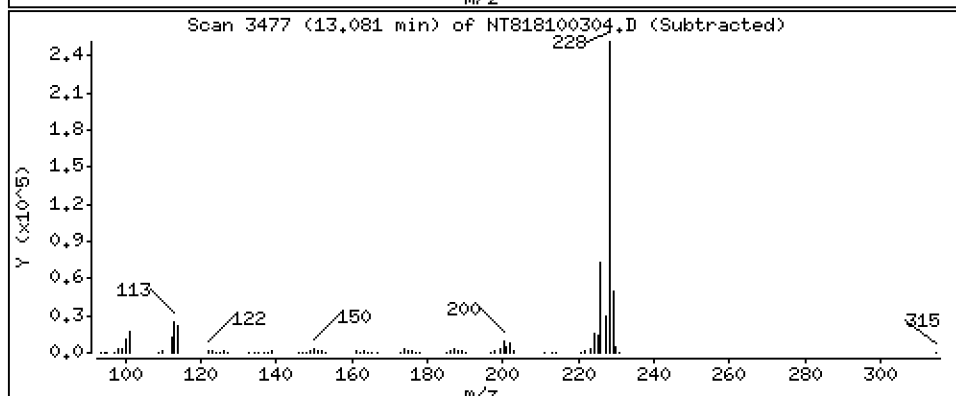
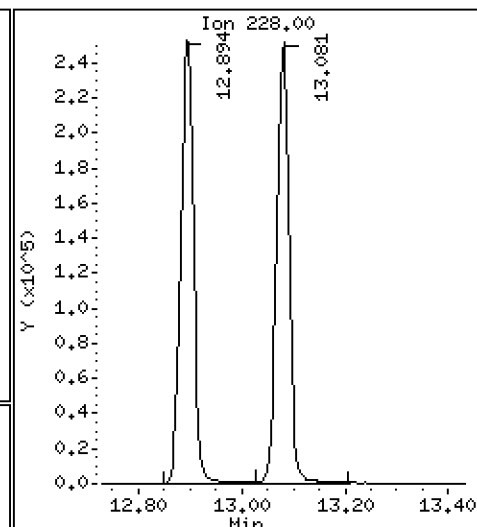
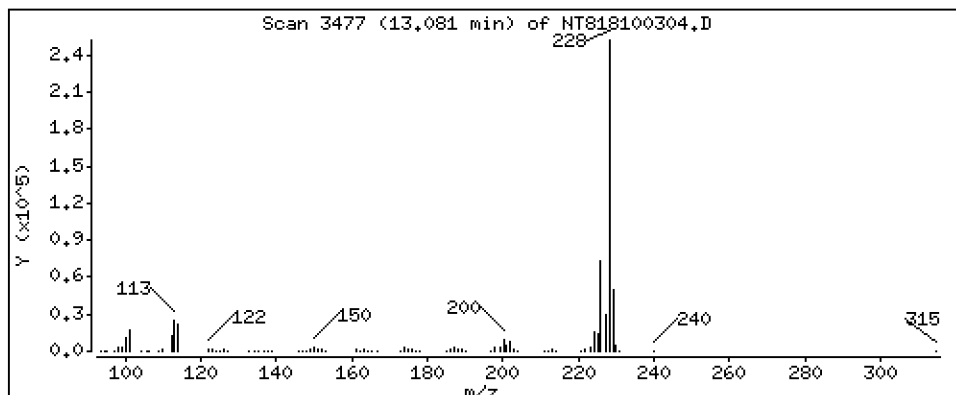
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 4,718 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

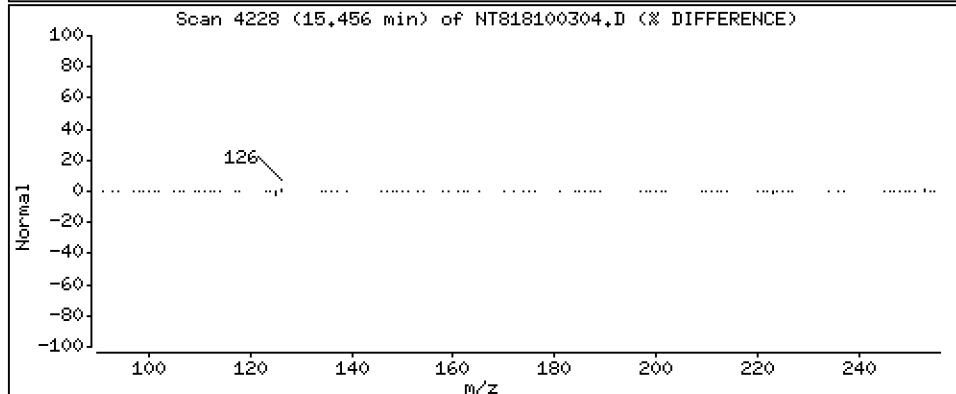
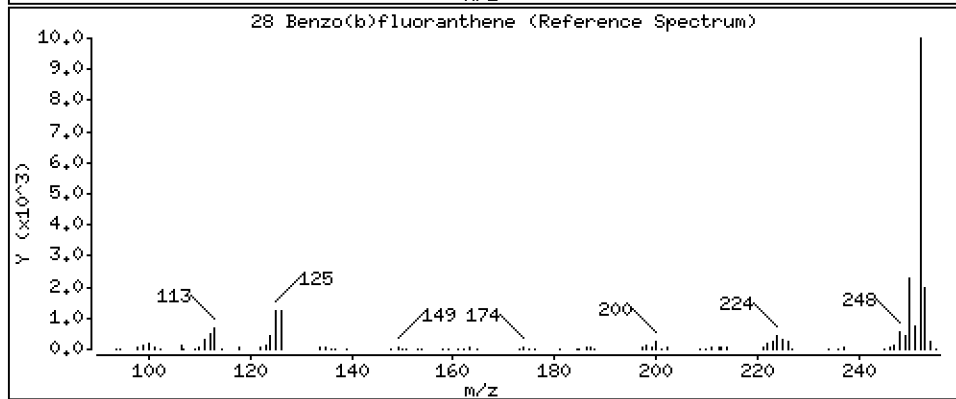
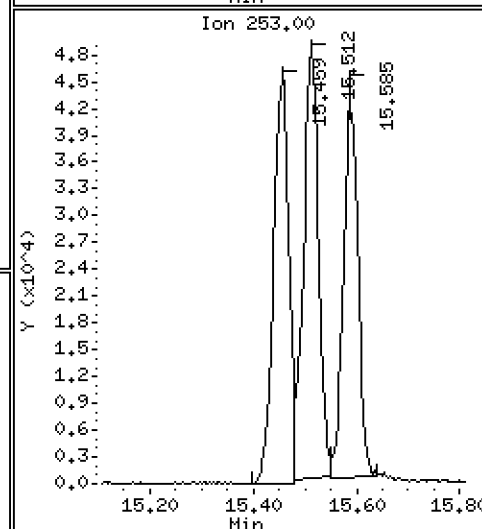
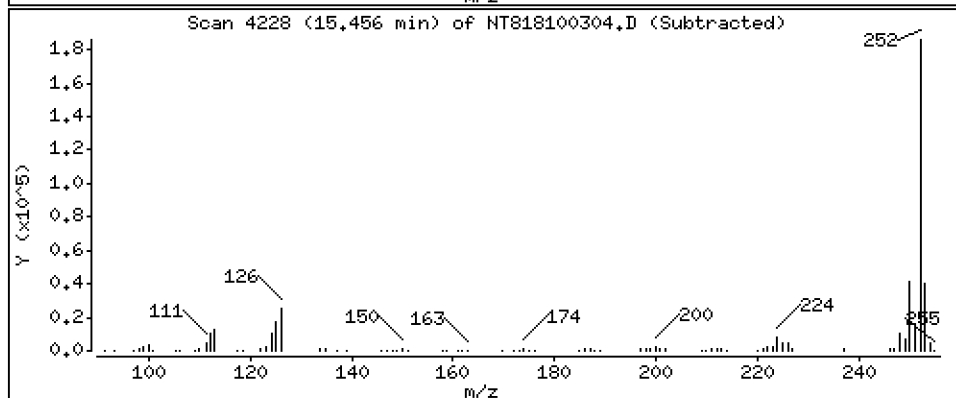
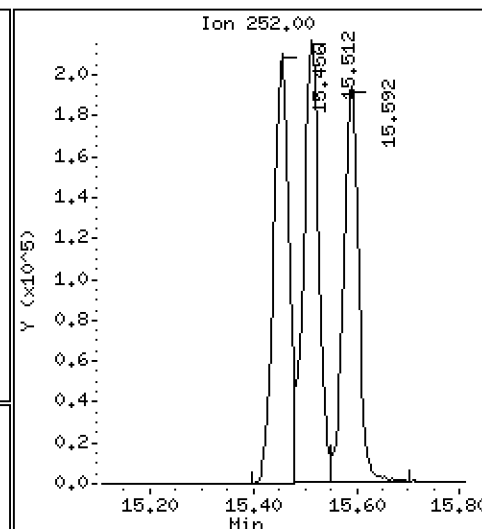
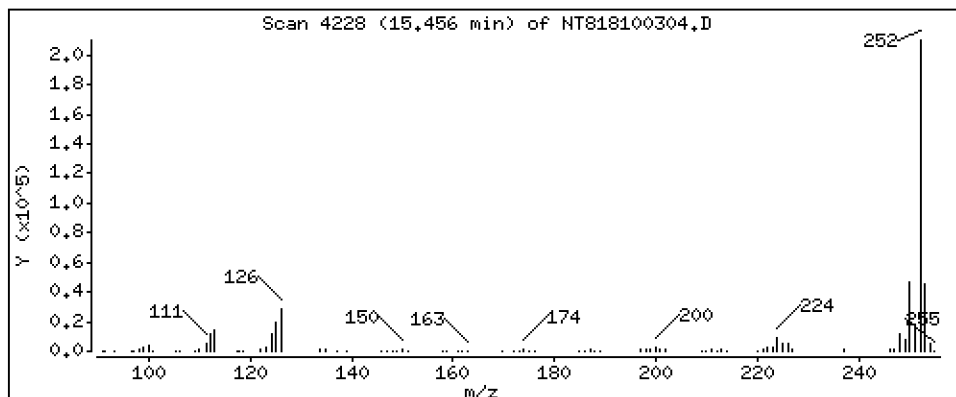
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 4,456 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

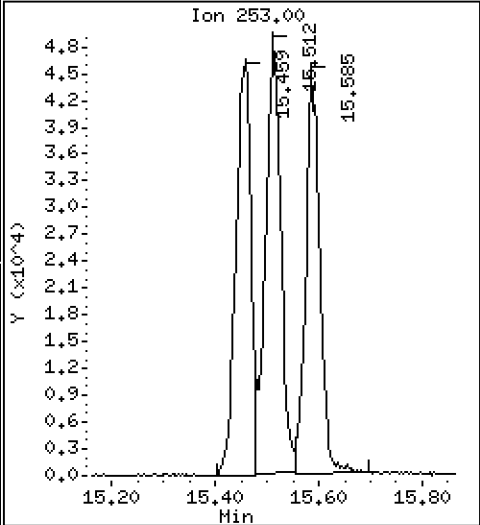
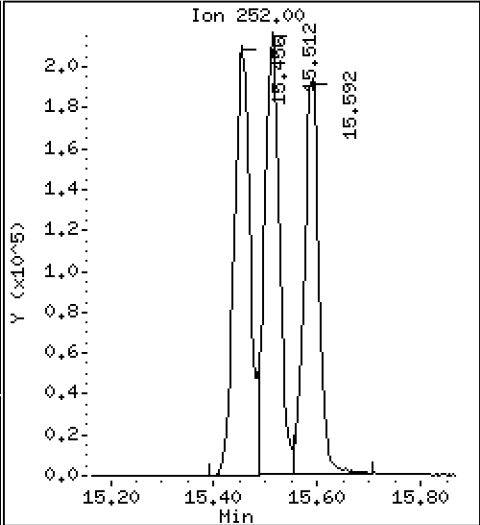
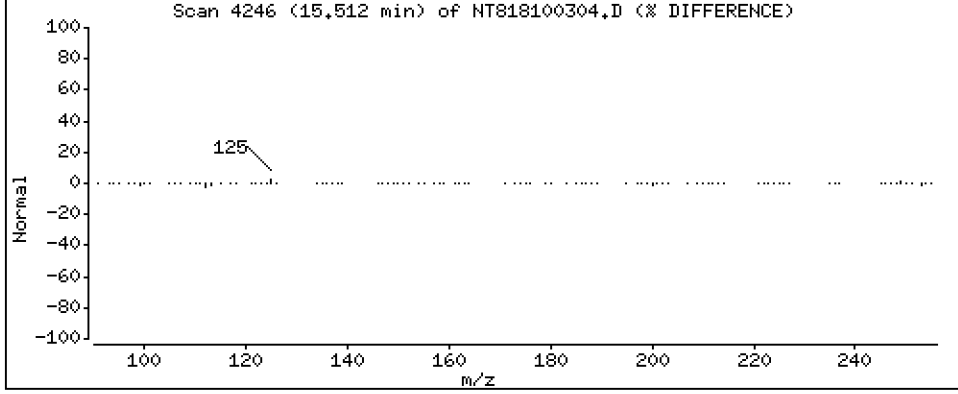
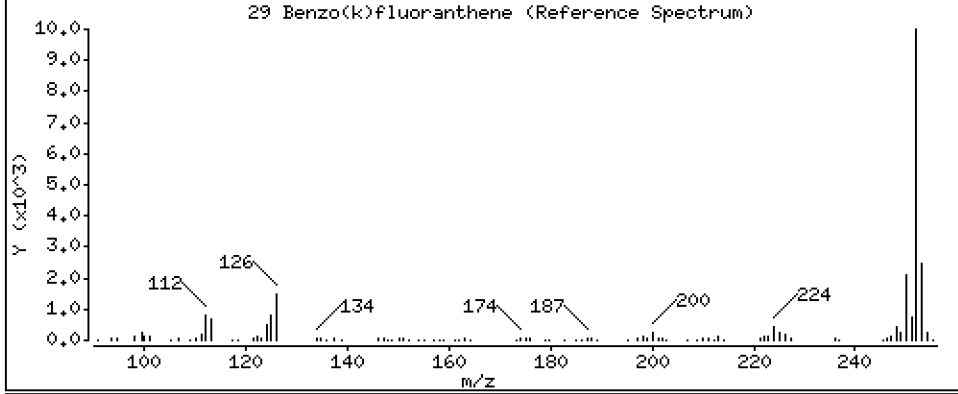
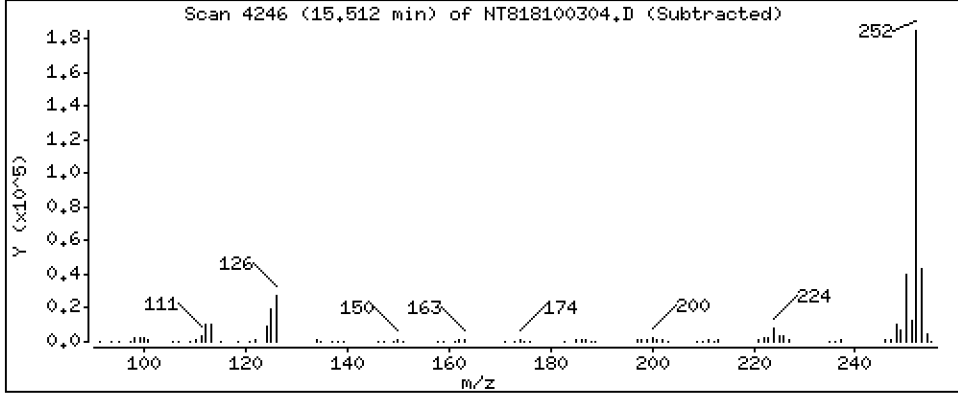
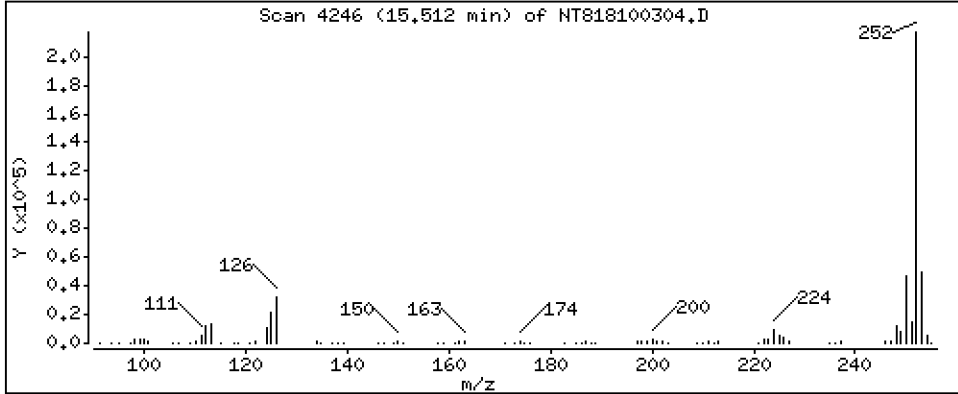
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 4,505 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

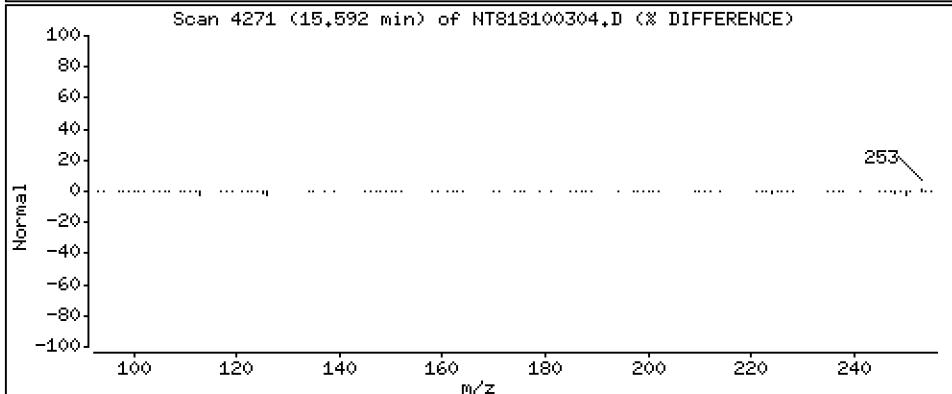
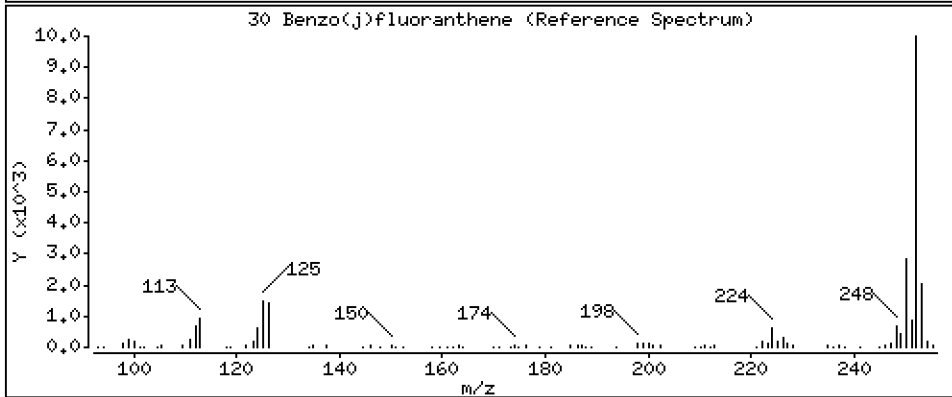
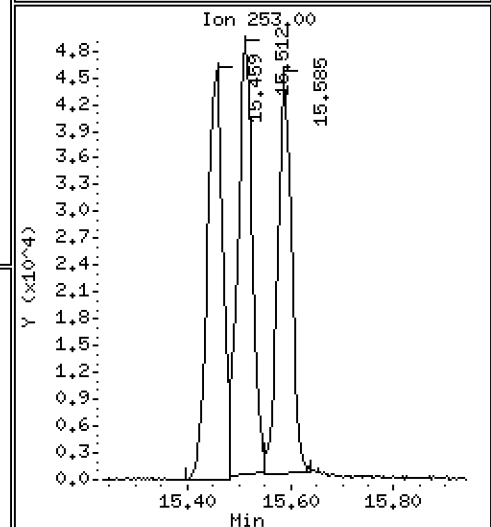
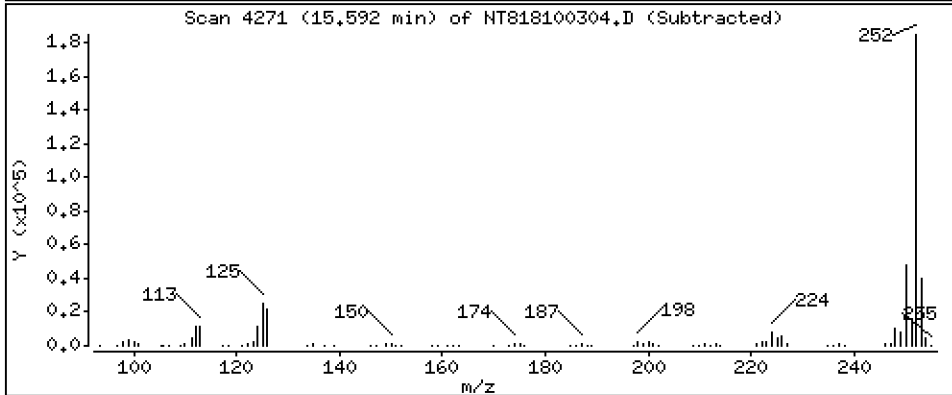
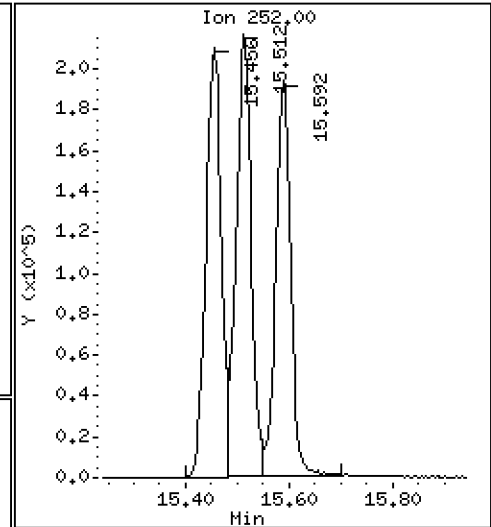
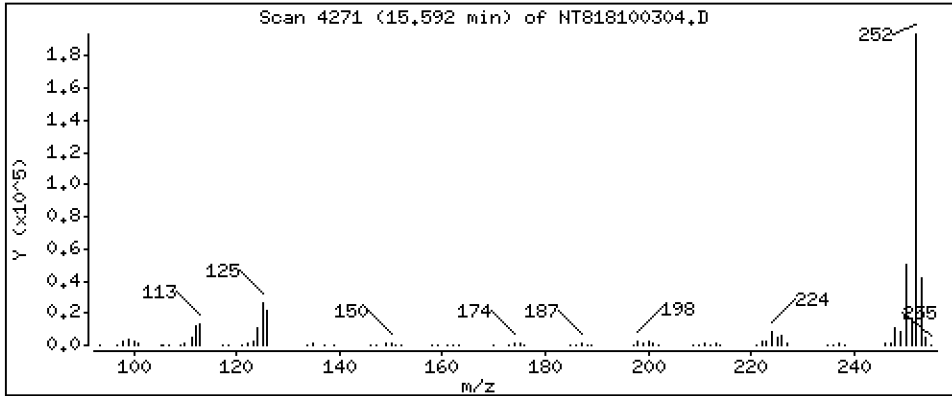
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 4,307 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

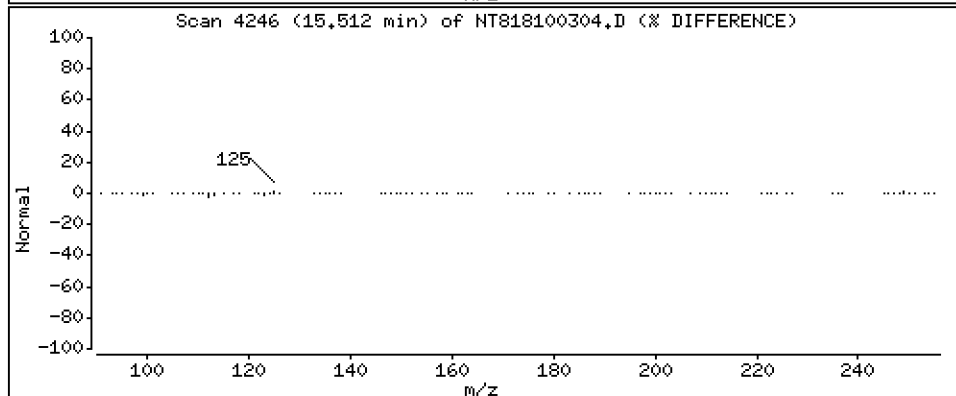
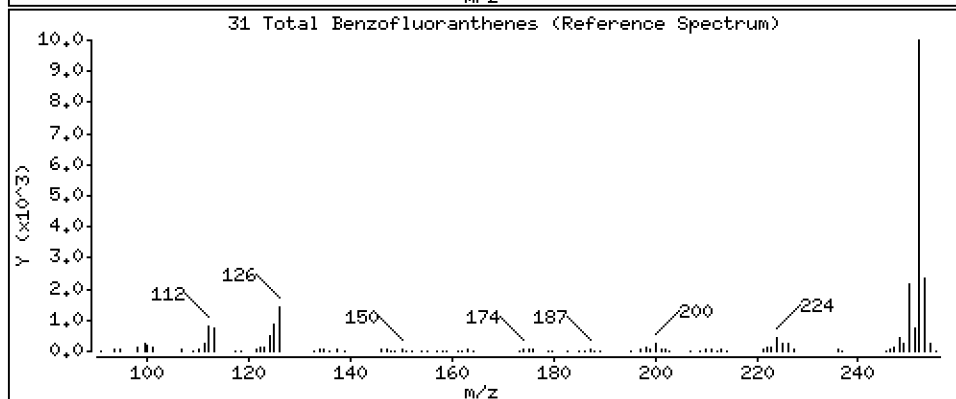
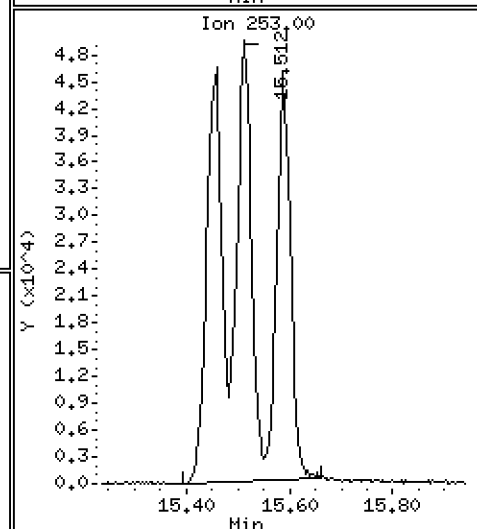
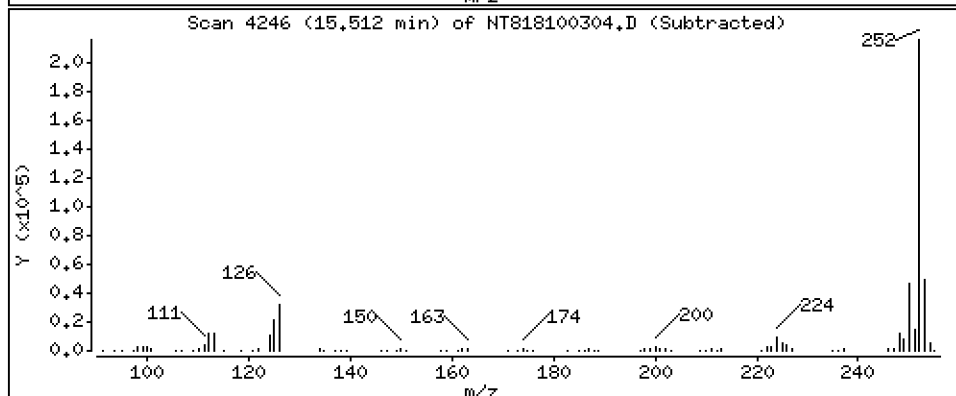
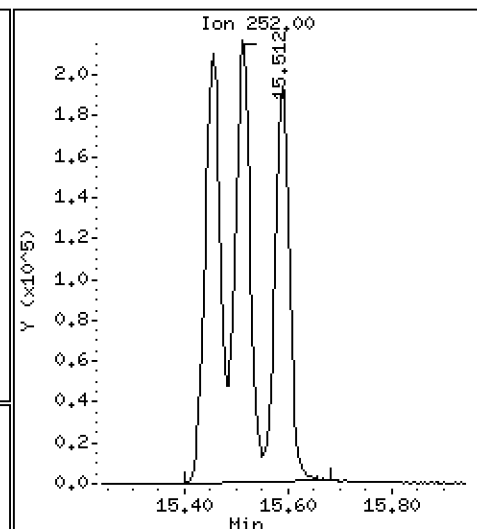
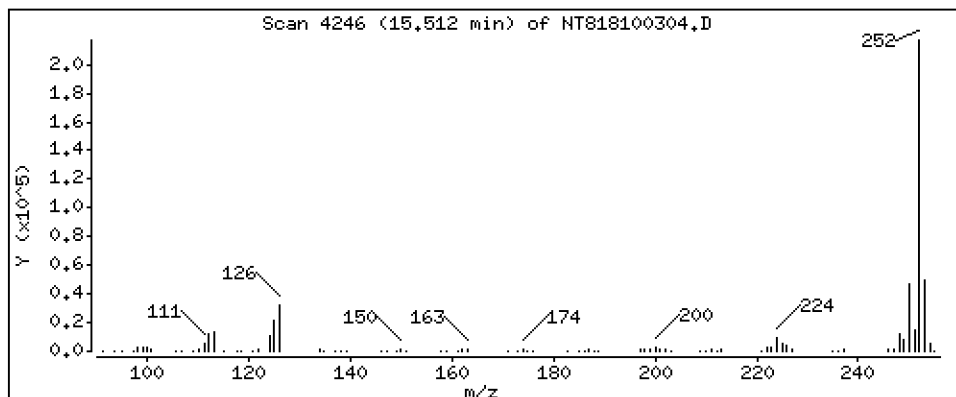
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 13,31 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

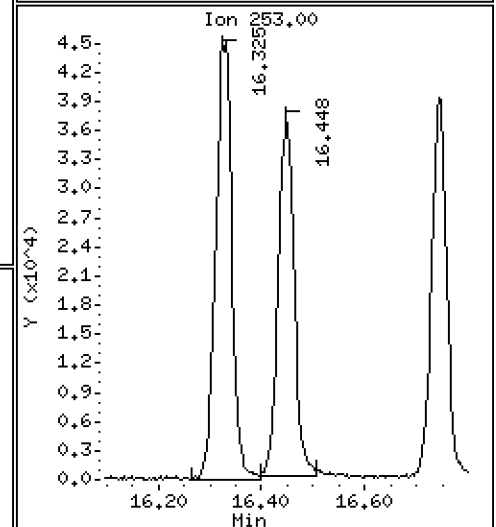
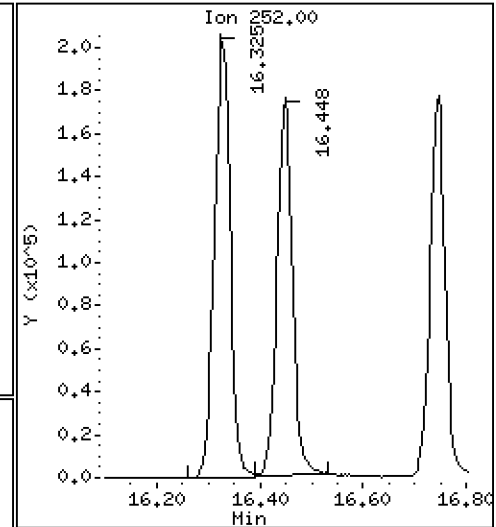
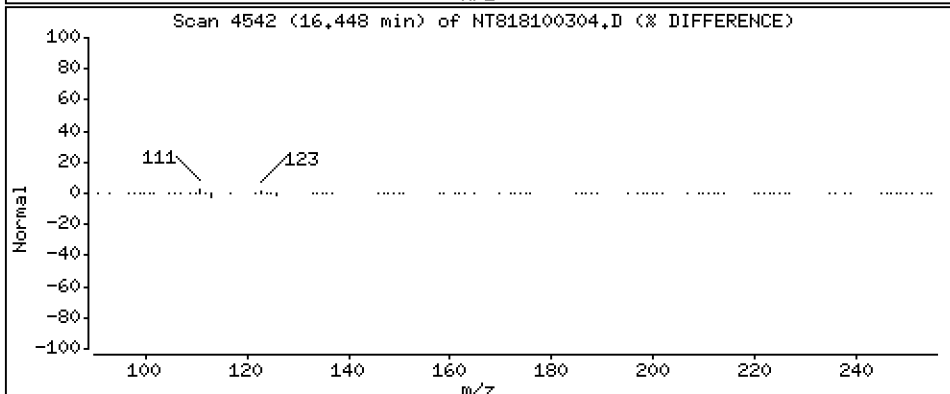
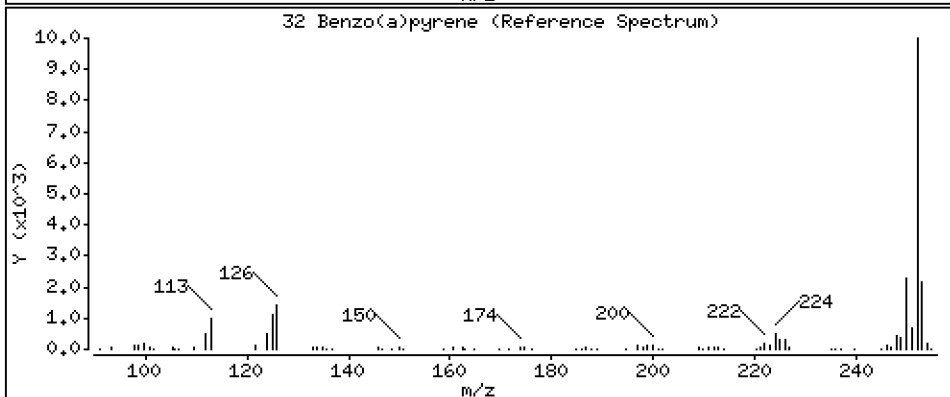
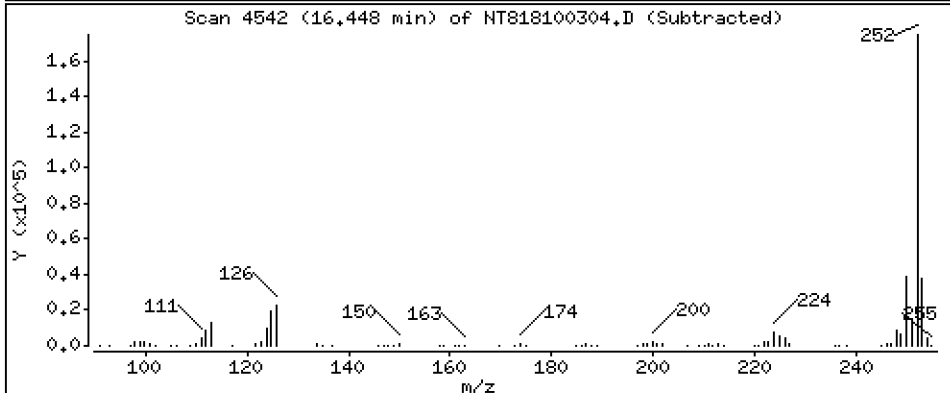
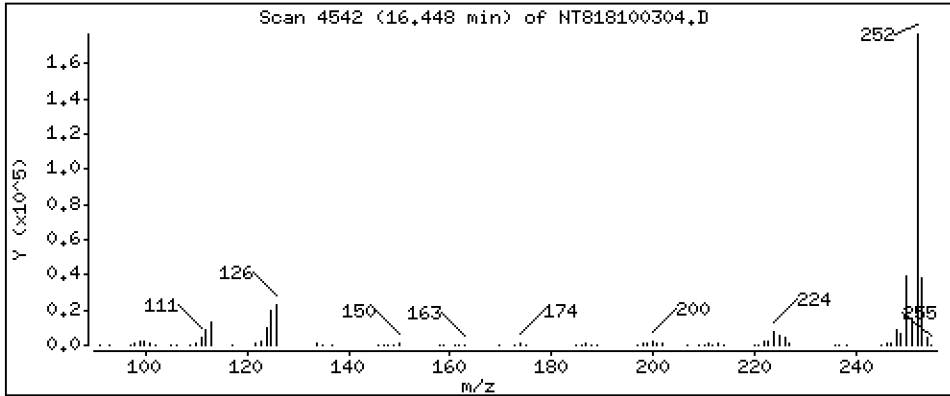
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 4,124 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

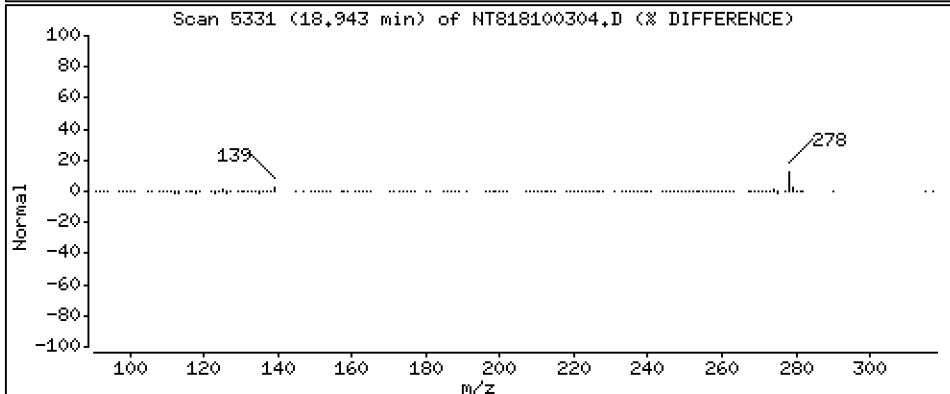
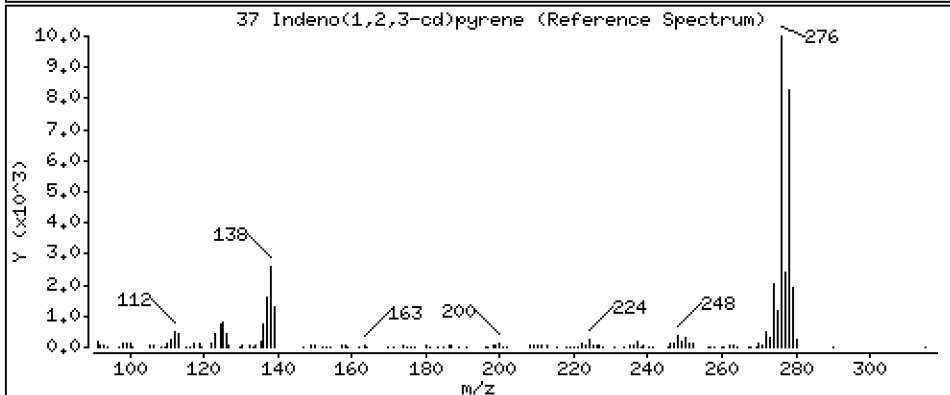
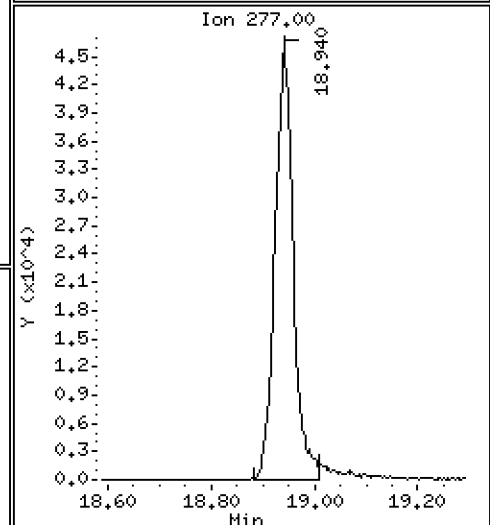
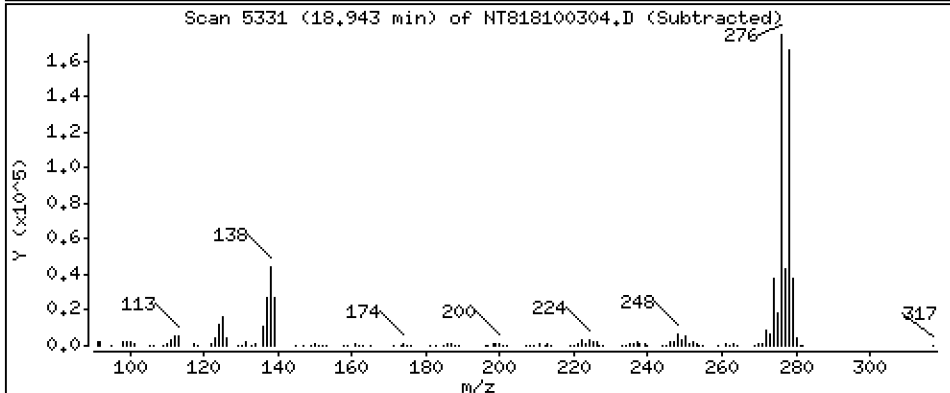
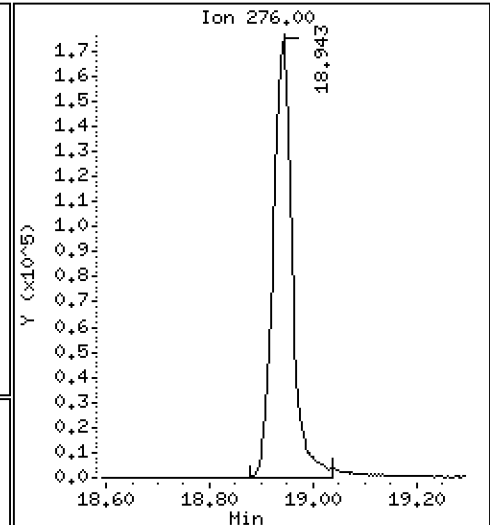
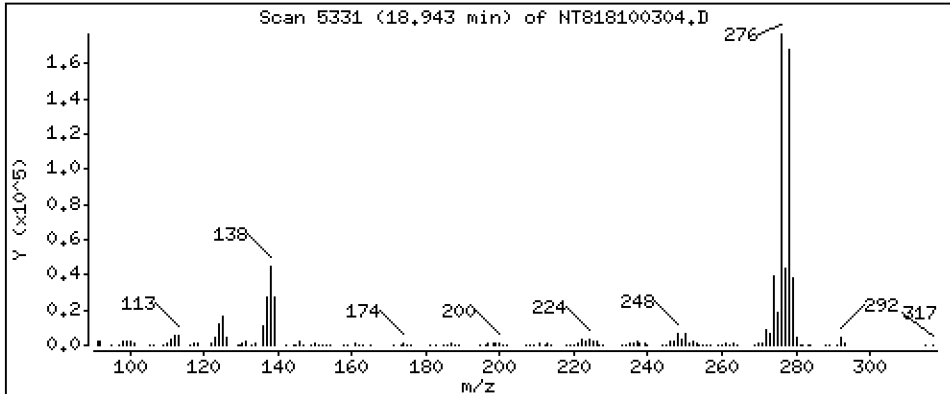
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 4,885 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

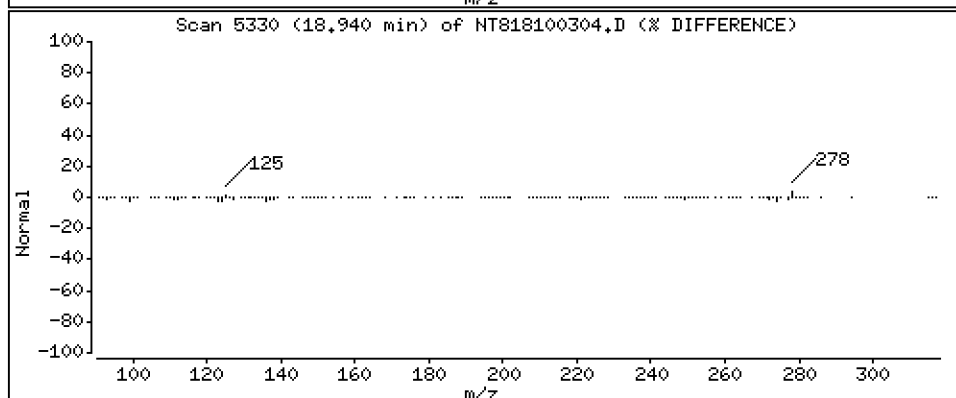
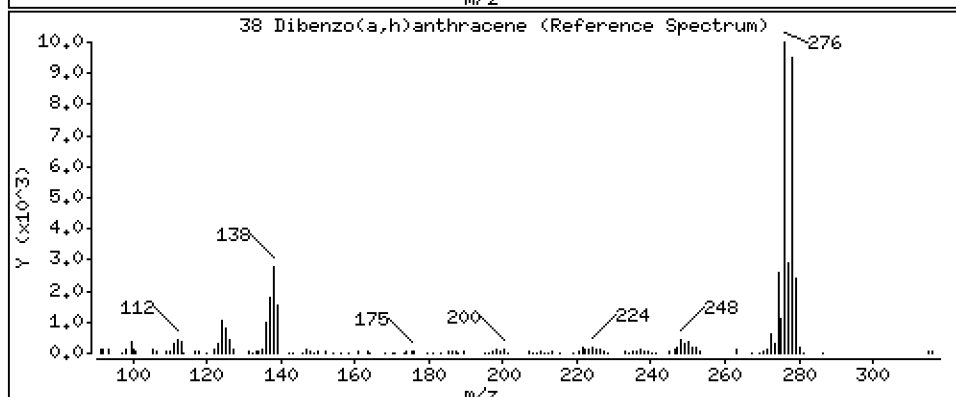
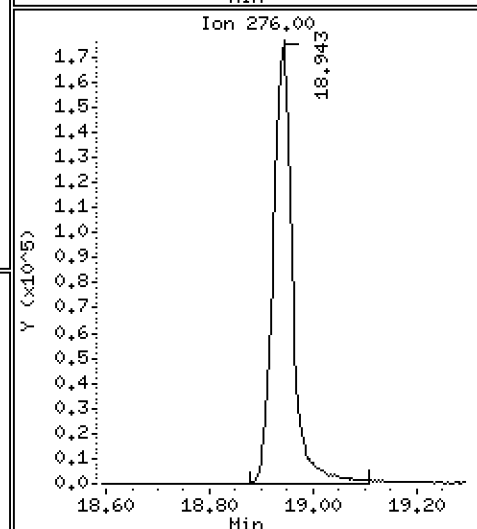
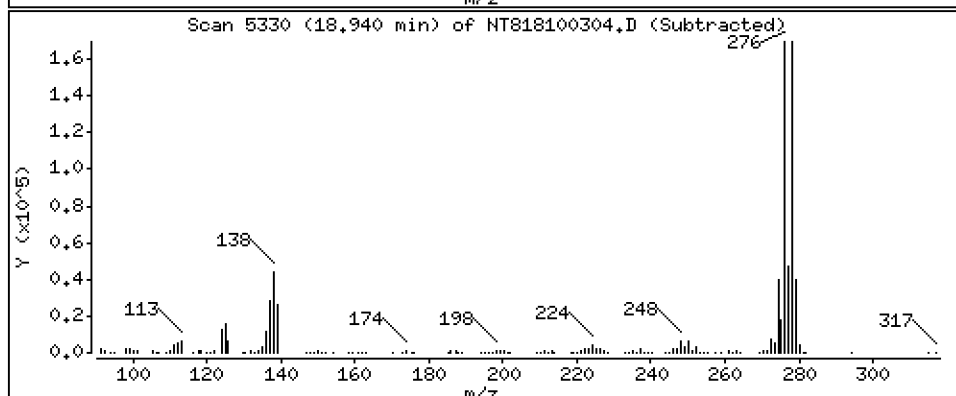
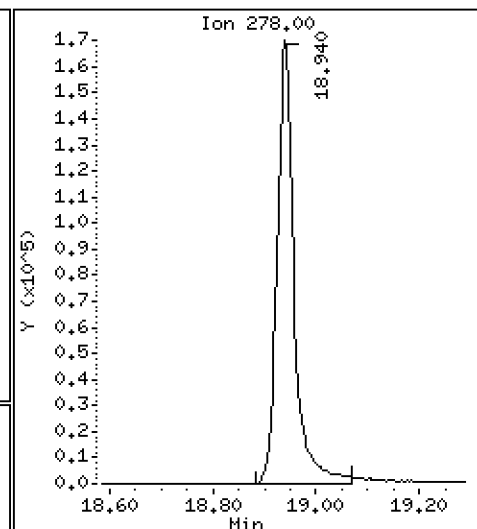
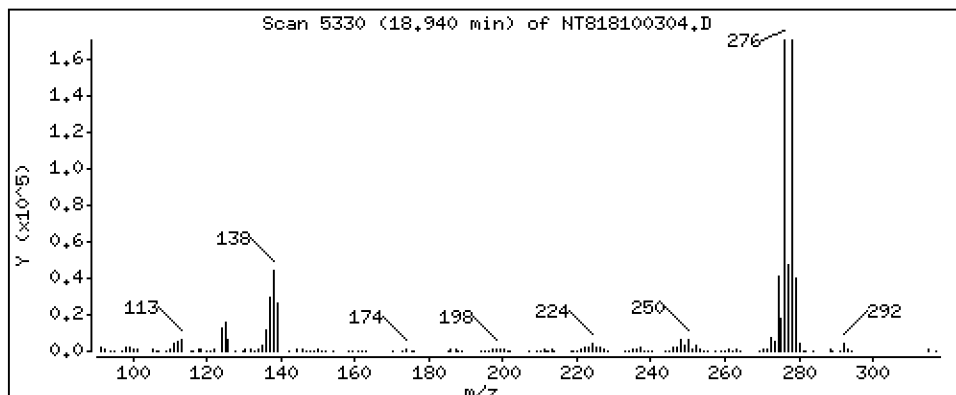
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 4,999 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

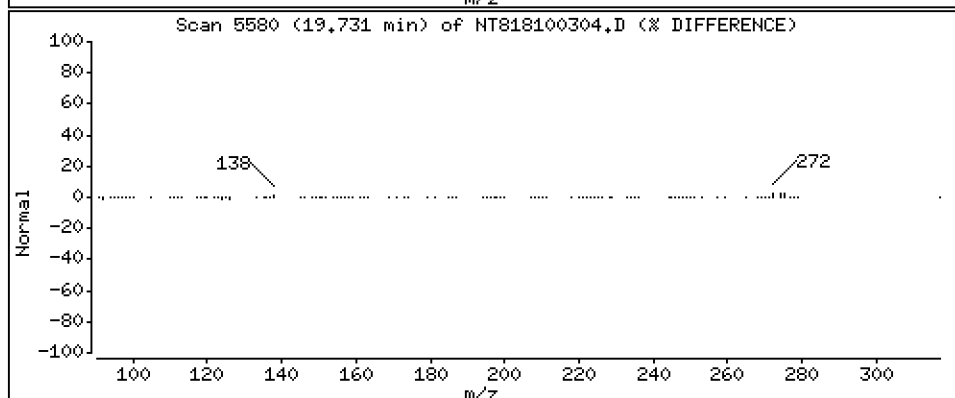
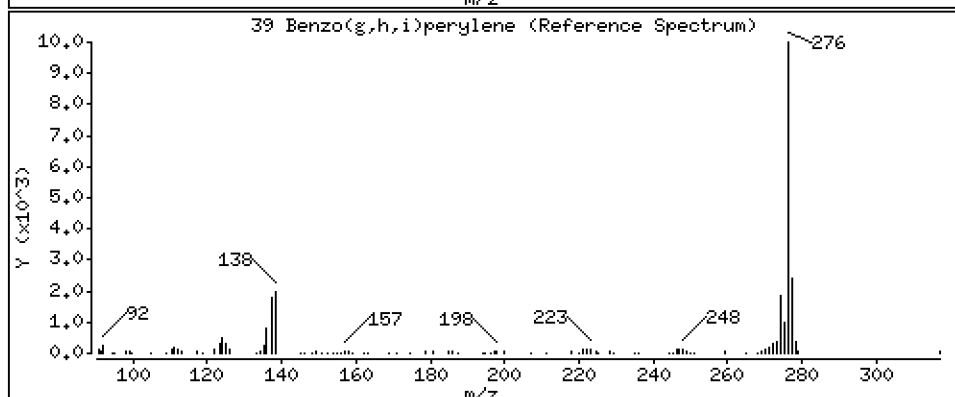
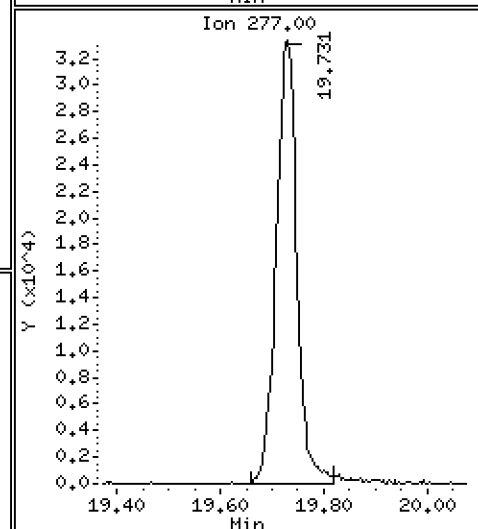
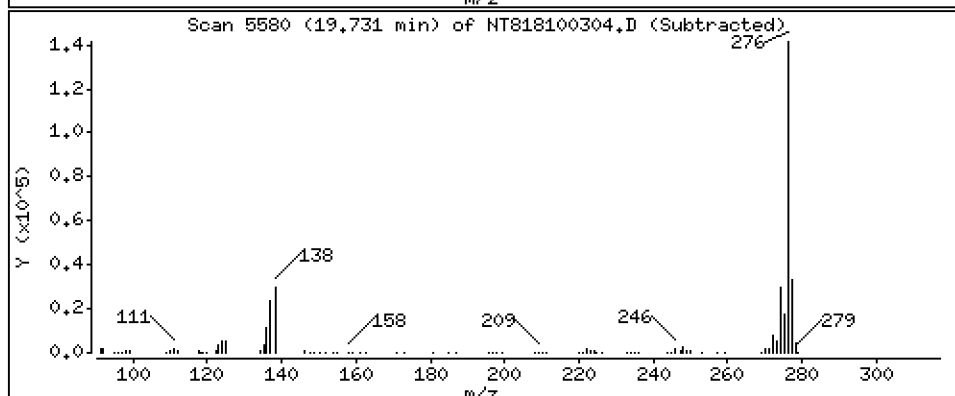
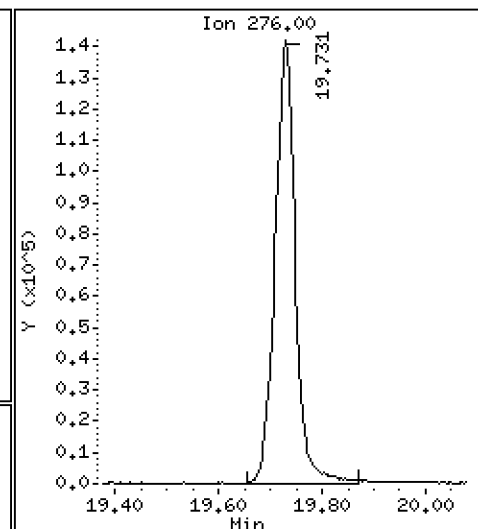
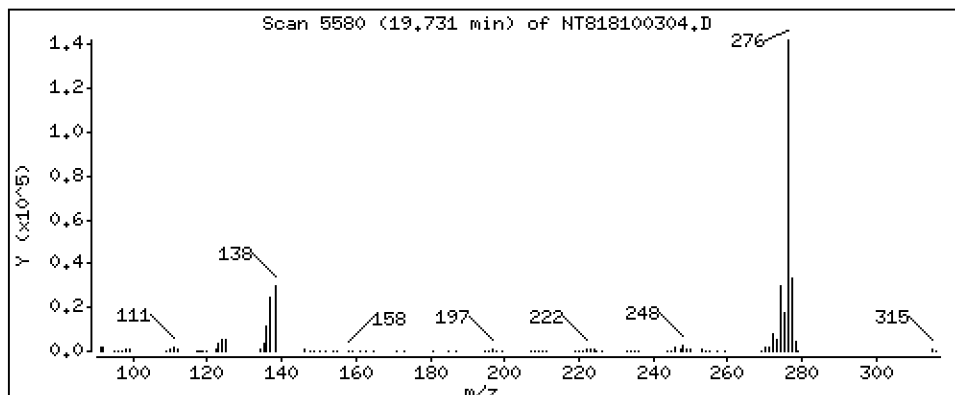
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 5,087 ug/mL



Date : 03-OCT-2018 12:20

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-BS1.

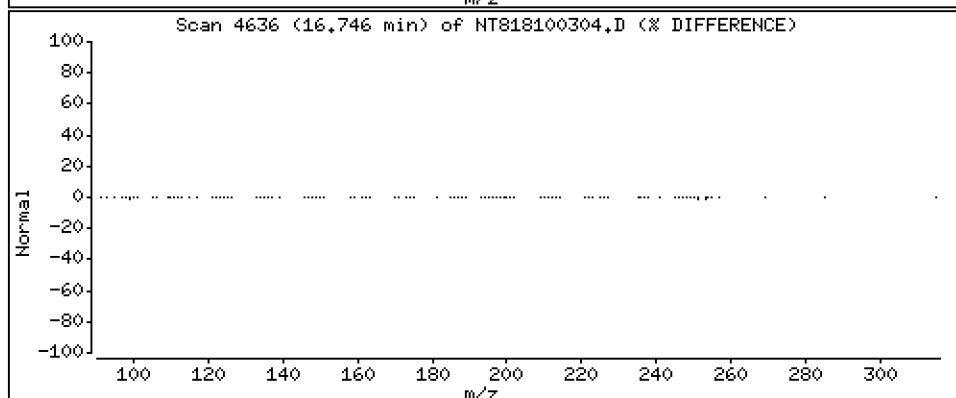
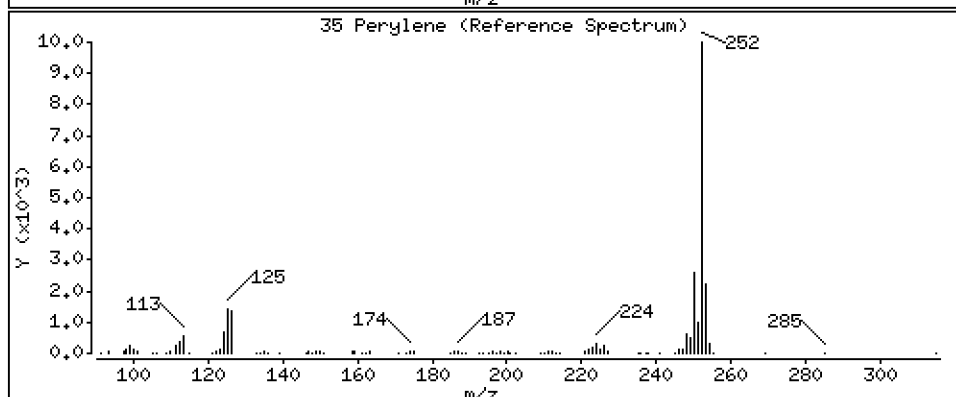
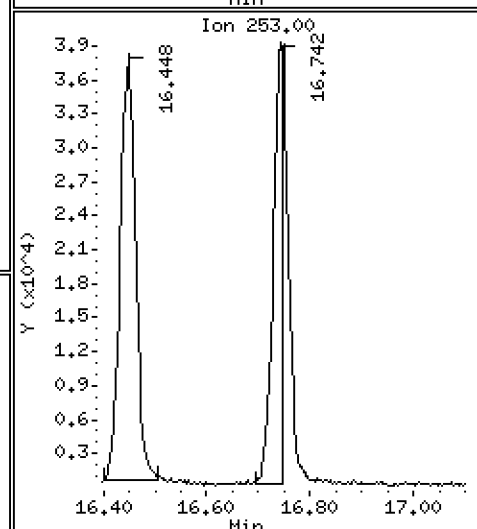
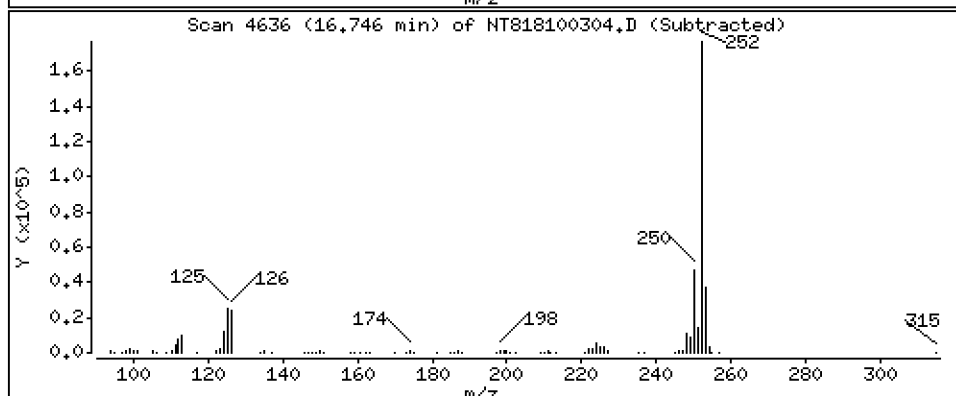
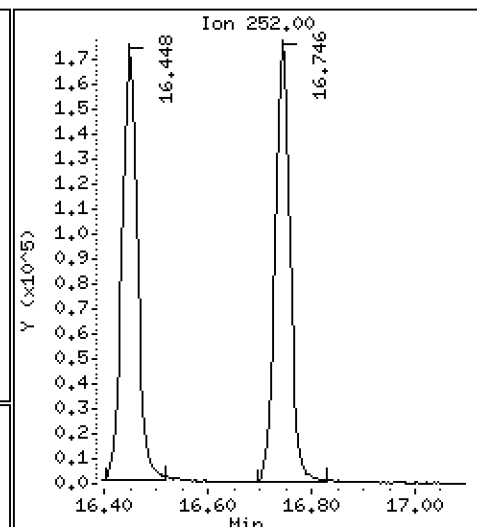
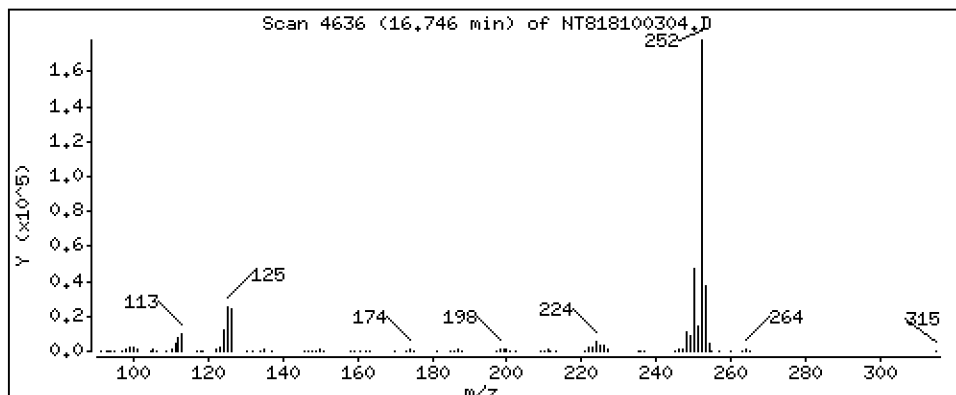
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 3,936 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100304.D
 Lab Smp Id: BGI0708-BS1
 Inj Date : 03-OCT-2018 12:20
 Operator : JZ Inst ID: nt8.i
 Smp Info : BGI0708-BS1,
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.306	4.319	(1.000)	147767	2.00000	
2 Naphthalene	128		4.334	4.347	(1.007)	276585	3.43434	3.434
\$ 3 2-Methylnaphthalene-d10	152		5.033	5.040	(1.169)	89387	1.71049	1.710
4 2-Methylnaphthalene	141		5.077	5.087	(1.179)	157945	3.49751	3.498
5 1-methylnaphthalene	141		5.273	5.280	(1.225)	159523	3.43102	3.431
9 Acenaphthylene	152		6.450	6.453	(0.983)	264331	3.24725	3.247
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	76745	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.007)	190848	3.47807	3.478
12 Dibenzofuran	168		6.760	6.763	(1.030)	267500	3.51914	3.519
14 Fluorene	166		7.228	7.231	(1.101)	223774	3.55441	3.554
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	152634	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	337361	4.09834	4.098
17 Anthracene	178		8.635	8.638	(1.008)	319740	3.96735	3.967
22 Fluoranthene	202		10.209	10.209	(1.192)	420308	4.39167	4.392
\$ 21 Fluoranthene-d10	212		10.175	10.178	(1.188)	211931	2.19859	2.199
23 Pyrene	202		10.655	10.655	(0.819)	440788	4.42606	4.426
24 Benzo(a)anthracene	228		12.894	12.897	(0.991)	434911	4.51628	4.516
* 25 Chrysene-d12	240		13.008	13.014	(1.000)	167374	2.00000	
27 Chrysene	228		13.080	13.080	(1.006)	429431	4.71814	4.718
28 Benzo(b)fluoranthene	252		15.455	15.458	(0.927)	434743	4.45629	4.456
29 Benzo(k)fluoranthene	252		15.512	15.515	(0.930)	435178	4.50527	4.505
30 Benzo(j)fluoranthene	252		15.591	15.591	(0.935)	394376	4.30730	4.307
31 Total Benzofluoranthenes	252		15.512	15.591	(0.930)	1260712	13.3146	13.31 (M)
32 Benzo(a)pyrene	252		16.448	16.451	(0.987)	362938	4.12411	4.124
* 33 Perylene-d12	264		16.672	16.672	(1.000)	156442	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.943	18.943	(1.136)	452894	4.88514	4.885
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.854	18.861	(1.131)	195521	2.78598	2.786
38 Dibenzo(a,h)anthracene	278		18.940	18.936	(1.136)	390349	4.99941	4.999
39 Benzo(g,h,i)perylene	276		19.730	19.727	(1.183)	387390	5.08736	5.087
35 Perylene	252		16.745	16.745	(1.004)	357330	3.93600	3.936

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100304.D Calibration Time: 11:20
 Lab Smp Id: BGI0708-BS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	147767	12.05
10 Acenaphthene-d10	72272	36136	144544	76745	6.19
15 Phenanthrene-d10	156058	78029	312116	152634	-2.19
25 Chrysene-d12	174389	87195	348778	167374	-4.02
33 Perylene-d12	150701	75351	301402	156442	3.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.29
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	-0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.04
25 Chrysene-d12	13.01	12.51	13.51	13.01	-0.05
33 Perylene-d12	16.67	16.17	17.17	16.67	-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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100304.D

Lab ID: BGI0708-BS1
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 12:20

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

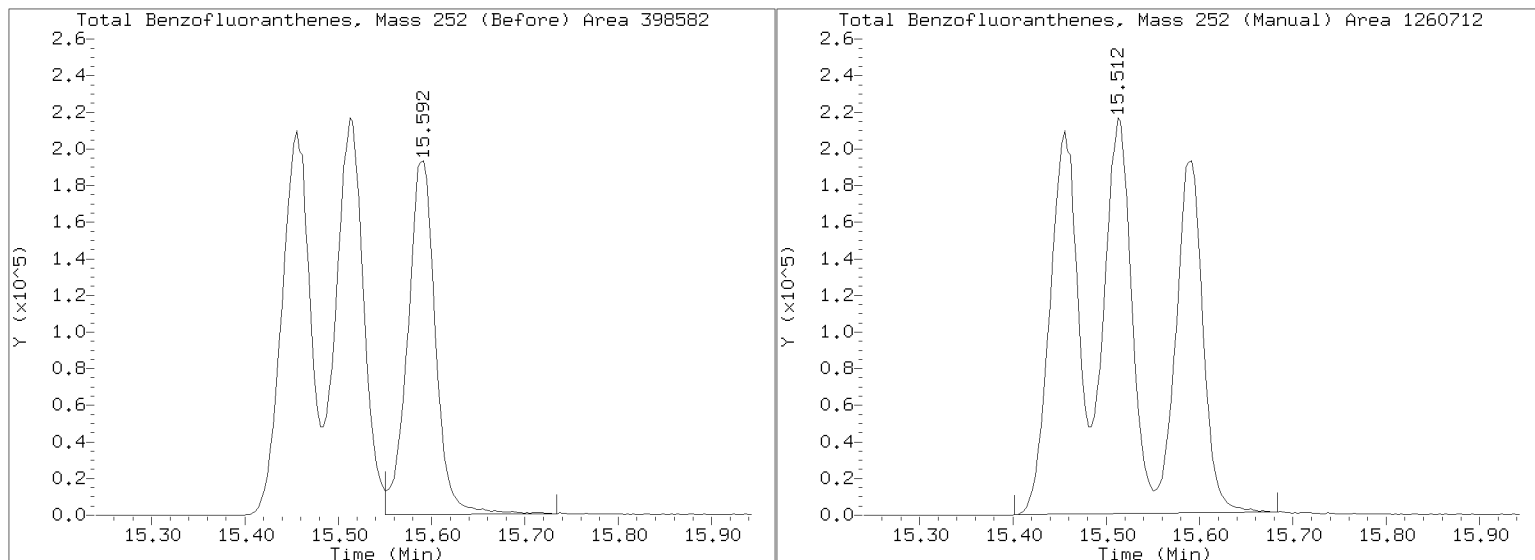
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100304.D

Injection Date: 03-OCT-2018 12:20

Lab ID: BGI0708-BS1 Client ID:

Report Date: 10/03/2018 12:45





MS / MS DUPLICATE RECOVERY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Solid

Analyzed: 10/03/18 15:08

Batch: BGI0708

Laboratory ID: BGI0708-MS1

Preparation: EPA 3546 (Microwave)

Sequence Name: Matrix Spike

Initial/Final: 12.02 g / 0.5 mL

Source Sample: SMA2A-IT-0-10-Comp-180919

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Naphthalene	299	19.3		178		53.0	36 - 120
2-Methylnaphthalene	299	4.03	J	174		57.1	35 - 120
1-Methylnaphthalene	299	2.48	J	173		57.1	39 - 120
Acenaphthylene	299	3.33	J	179		58.8	35 - 120
Acenaphthene	299	4.90	J	180		58.5	39 - 120
Fluorene	299	4.64	J	183		59.8	41 - 120
Phenanthrene	299	16.9		221		68.2	46 - 120
Anthracene	299	4.81	J	204		66.8	36 - 120
Fluoranthene	299	20.1		220		67.1	46 - 120
Pyrene	299	18.9		229		70.4	49 - 120
Benzo(a)anthracene	299	3.65	J	222		73.0	42 - 120
Chrysene	299	4.65	J	226		74.1	48 - 120
Benzo(b)fluoranthene	299	3.25	J	209		69.0	35 - 127
Benzo(k)fluoranthene	299	1.72	J	211		70.1	37 - 129
Benzo(j)fluoranthene	299	1.79	J	190		63.1	40 - 120
Benzo(a)pyrene	299	3.54	J	212		70.0	36 - 120
Indeno(1,2,3-cd)pyrene	299	ND	U	232		77.7	40 - 120
Dibenzo(a,h)anthracene	299	ND	U	237		79.5	38 - 120
Benzo(g,h,i)perylene	299	6.24		242		79.1	38 - 120
Benzo(a)fluoranthenes, Total	896	7.01	J	608		67.1	46 - 120

* Values outside of QC limits



MS / MS DUPLICATE RECOVERY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Solid

Analyzed: 10/03/18 15:35

Batch: BGI0708

Laboratory ID: BGI0708-MSD1

Preparation: EPA 3546 (Microwave)

Sequence Name: Matrix Spike Dup

Initial/Final: 12.09 g / 0.5 mL

Source Sample: SMA2A-IT-0-10-Comp-180919

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Naphthalene	297	193		58.5	8.16	30	36 - 120
2-Methylnaphthalene	297	188		61.8	7.23	30	35 - 120
1-Methylnaphthalene	297	184		61.3	6.47	30	39 - 120
Acenaphthylene	297	196		64.8	9.04	30	35 - 120
Acenaphthene	297	198		65.0	9.58	30	39 - 120
Fluorene	297	205		67.4	11.1	30	41 - 120
Phenanthrene	297	241		75.4	8.68	30	46 - 120
Anthracene	297	236		77.8	14.3	30	36 - 120
Fluoranthene	297	254		78.9	14.3	30	46 - 120
Pyrene	297	263		82.3	13.9	30	49 - 120
Benzo(a)anthracene	297	248		82.4	11.3	30	42 - 120
Chrysene	297	255		84.4	12.1	30	48 - 120
Benzo(b)fluoranthene	297	240		79.7	13.6	30	35 - 127
Benzo(k)fluoranthene	297	237		79.2	11.6	30	37 - 129
Benzo(j)fluoranthene	297	221		74.0	15.1	30	40 - 120
Benzo(a)pyrene	297	241		80.2	12.8	30	36 - 120
Indeno(1,2,3-cd)pyrene	297	266		89.7	13.8	30	40 - 120
Dibenzo(a,h)anthracene	297	275		92.5	14.5	30	38 - 120
Benzo(g,h,i)perylene	297	275		90.5	12.6	30	38 - 120
Benzofluoranthenes, Total	890	690		76.8	12.8	30	46 - 120

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20181003.1\N1818100310.D

Date: 03-OCT-2018 15:08

Client ID:

Sample Info: BG10708-HS1,

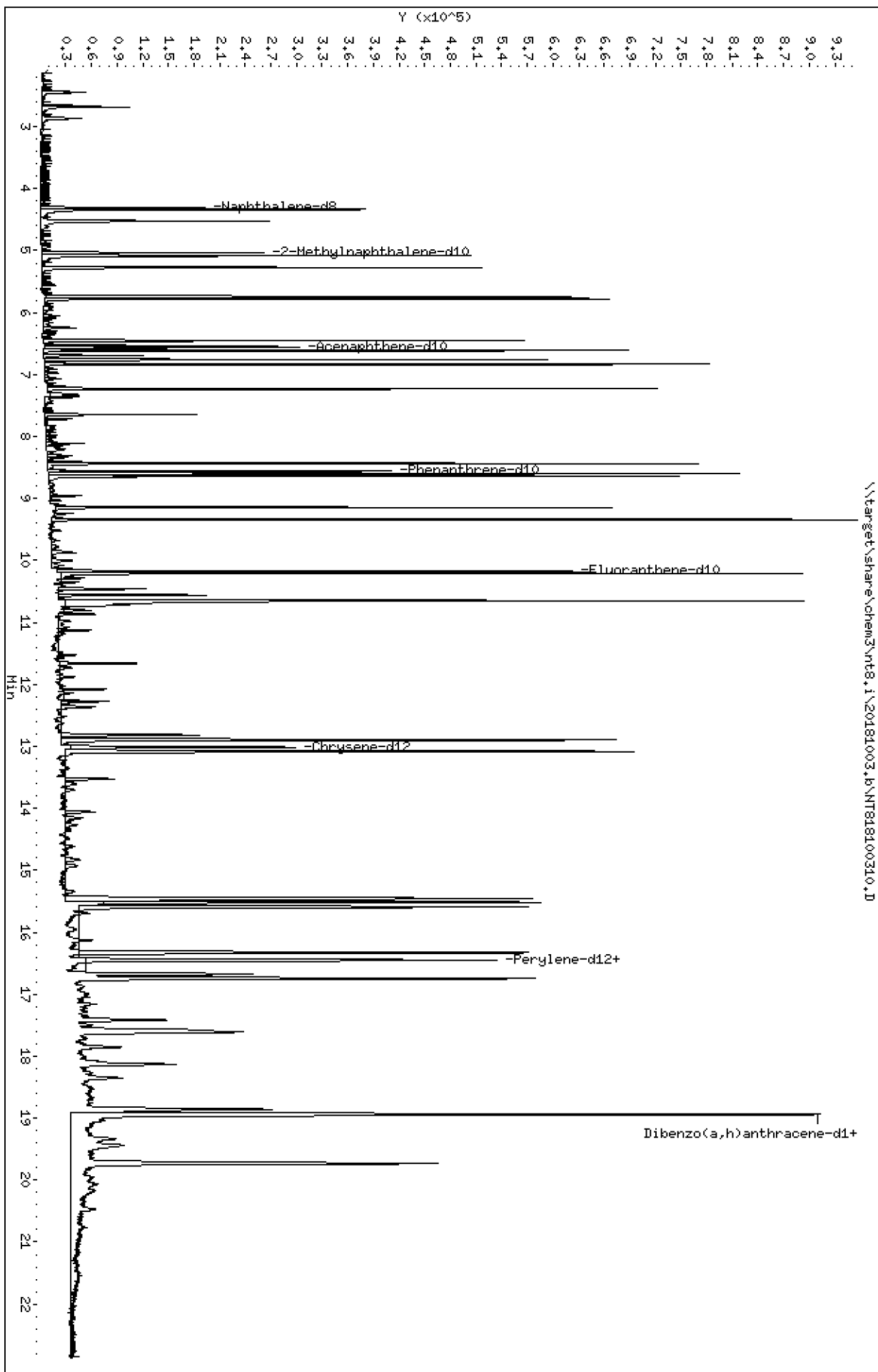
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

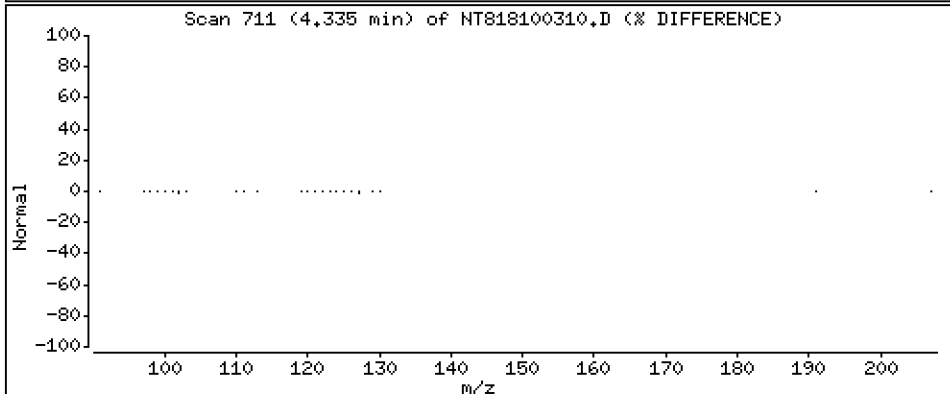
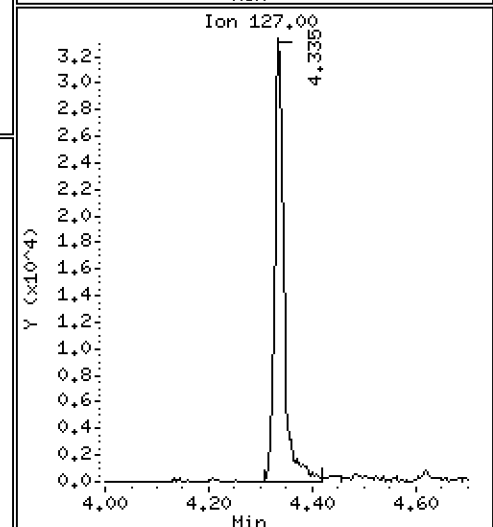
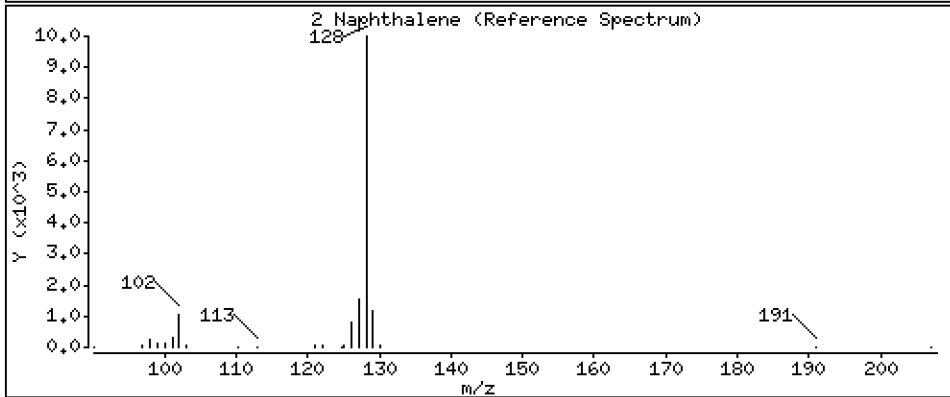
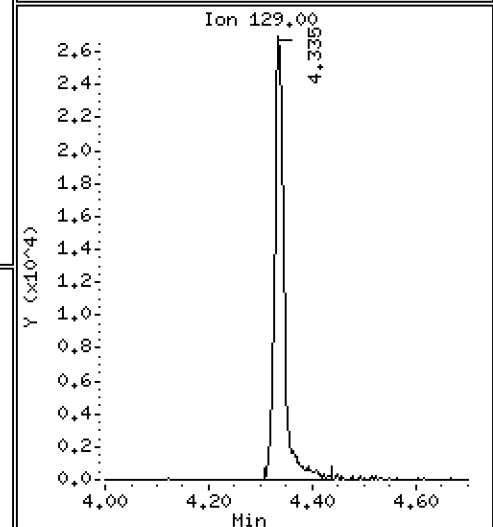
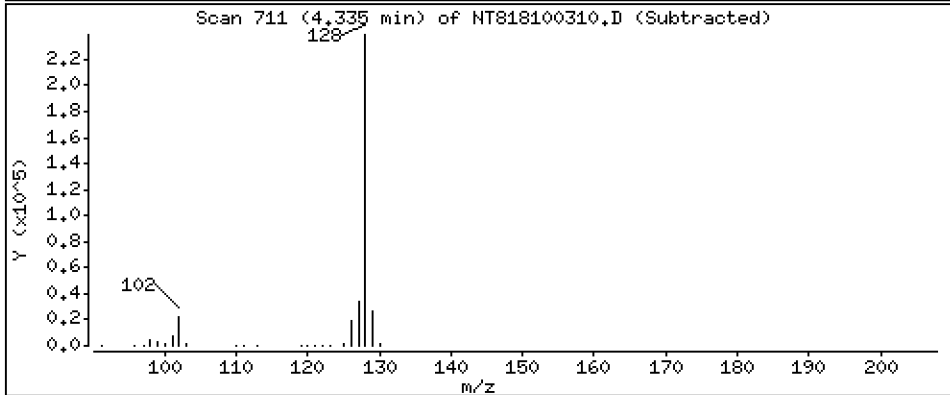
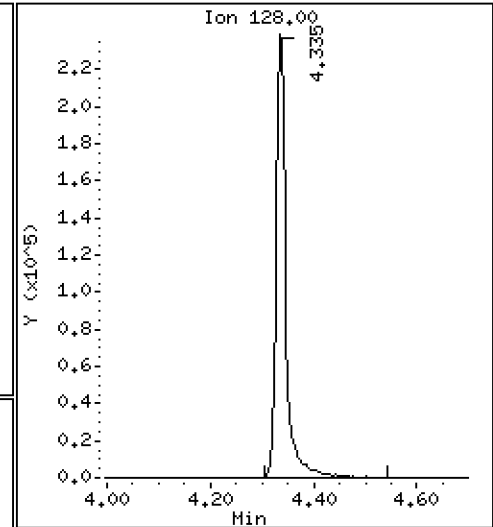
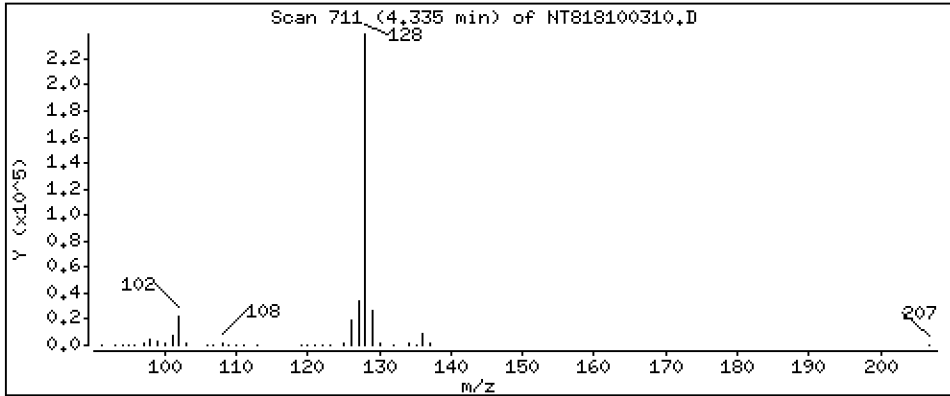
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 3,570 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

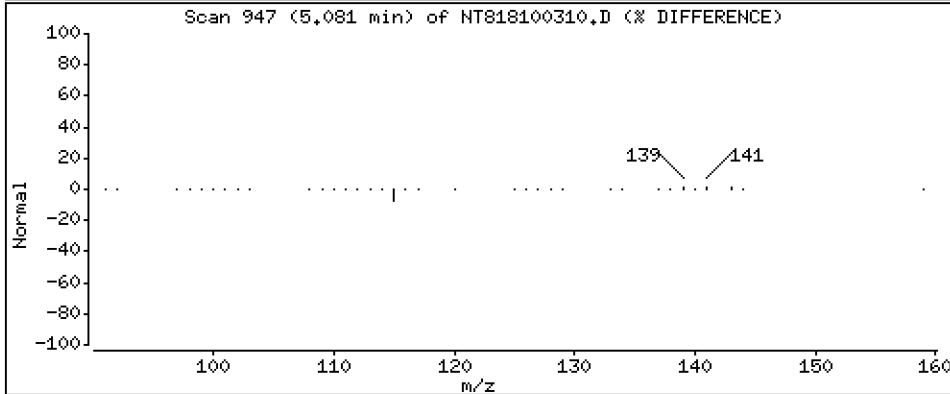
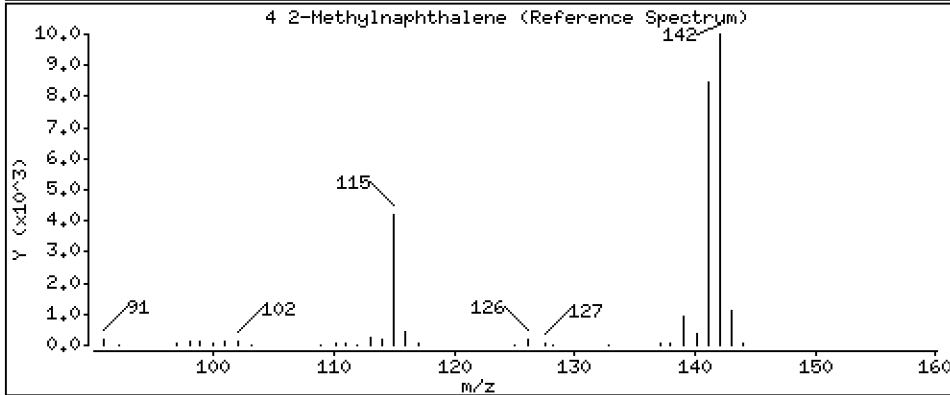
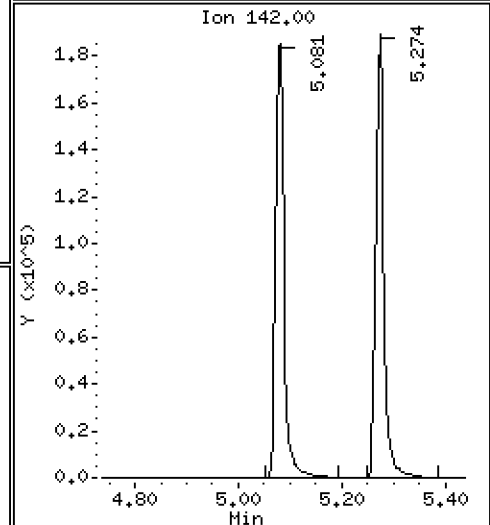
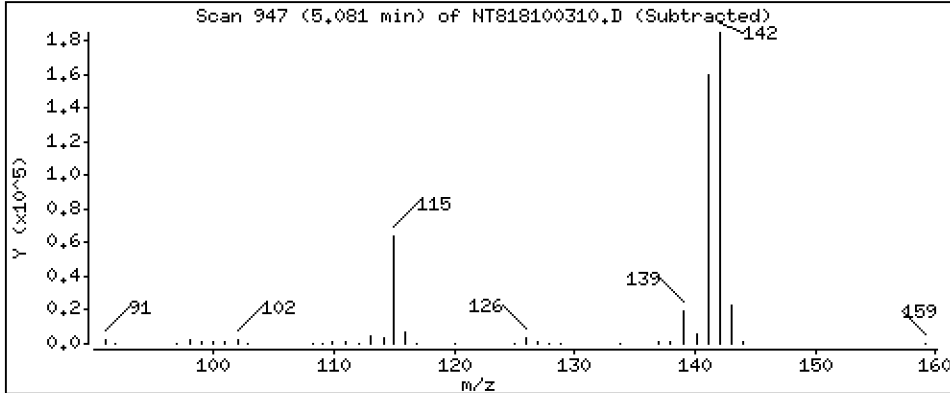
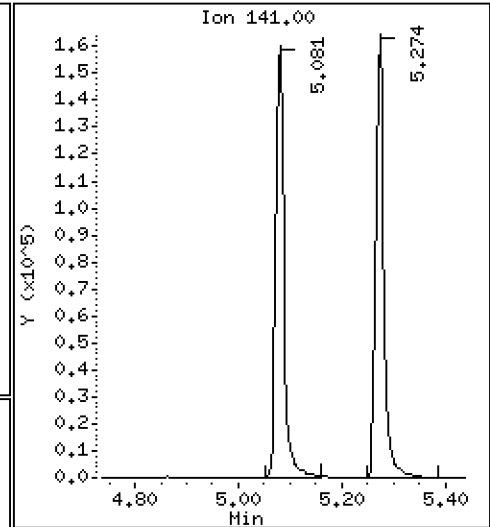
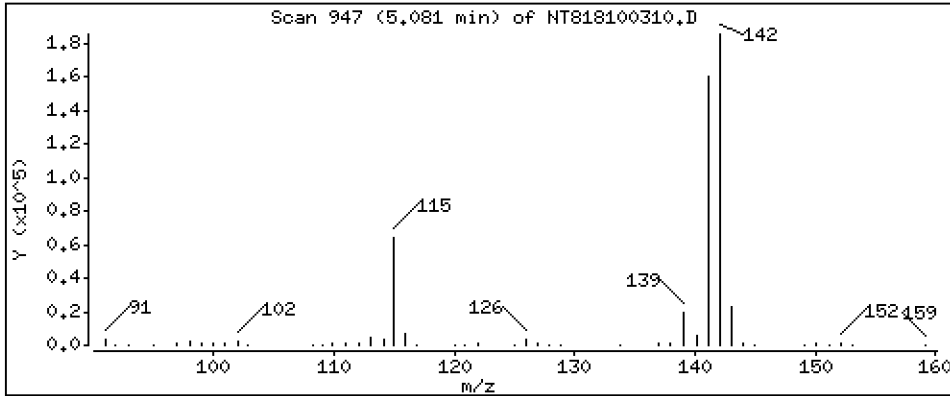
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4-Methylnaphthalene

Concentration: 3.506 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

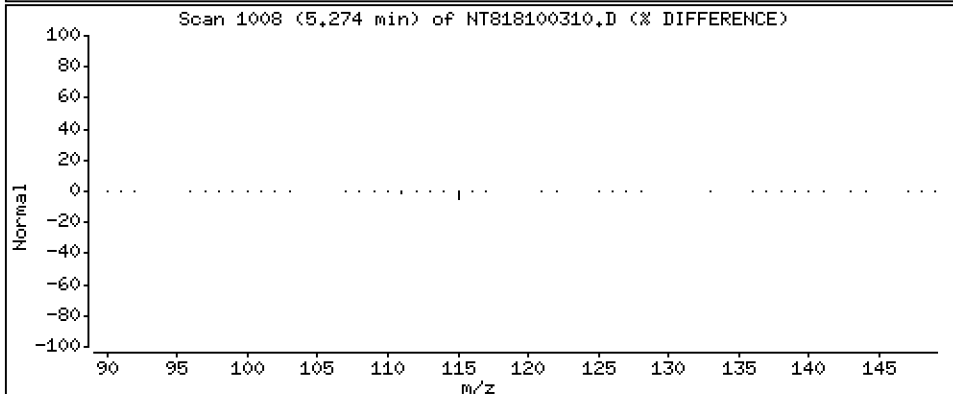
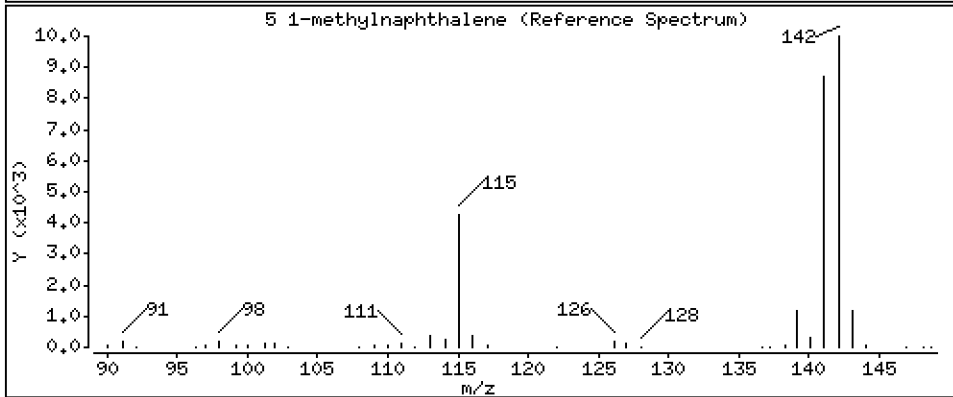
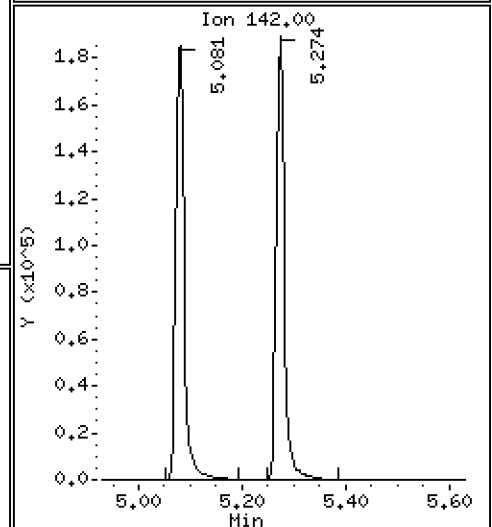
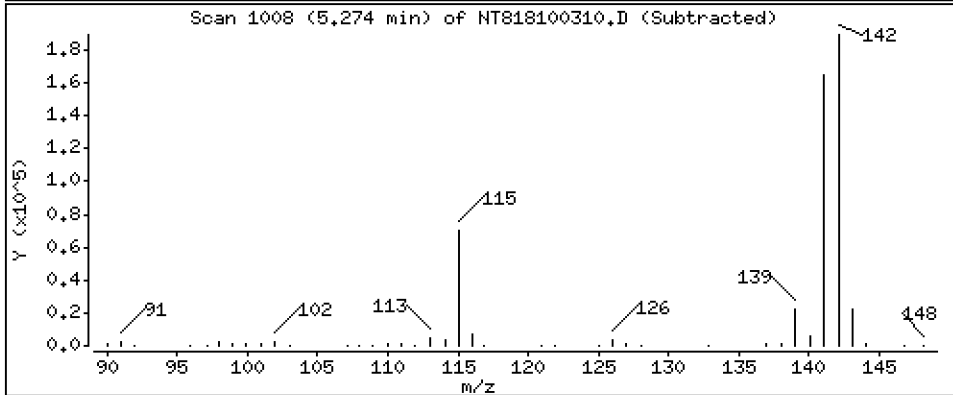
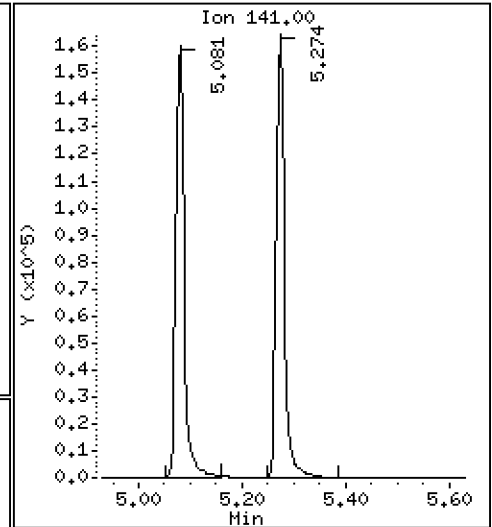
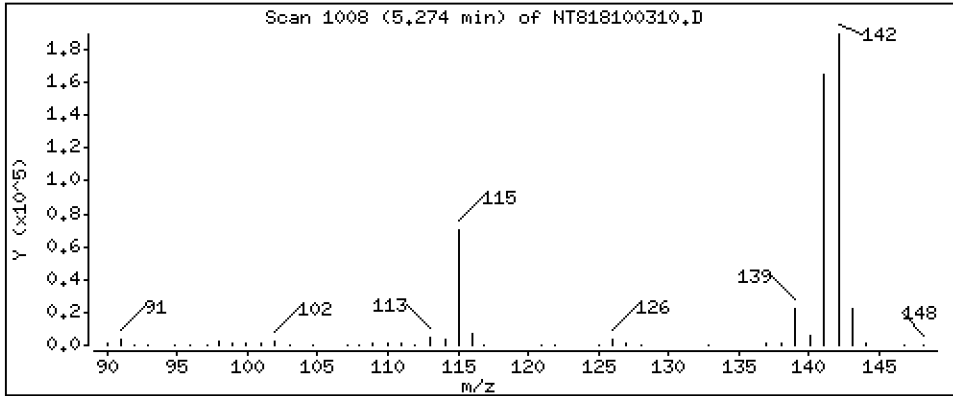
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

5 1-methylnaphthalene

Concentration: 3.475 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

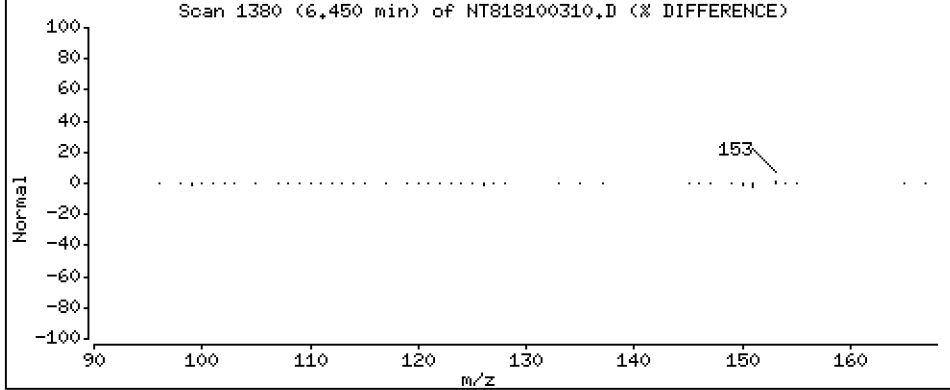
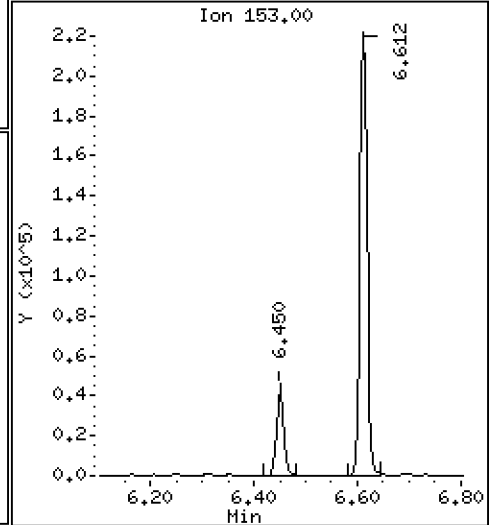
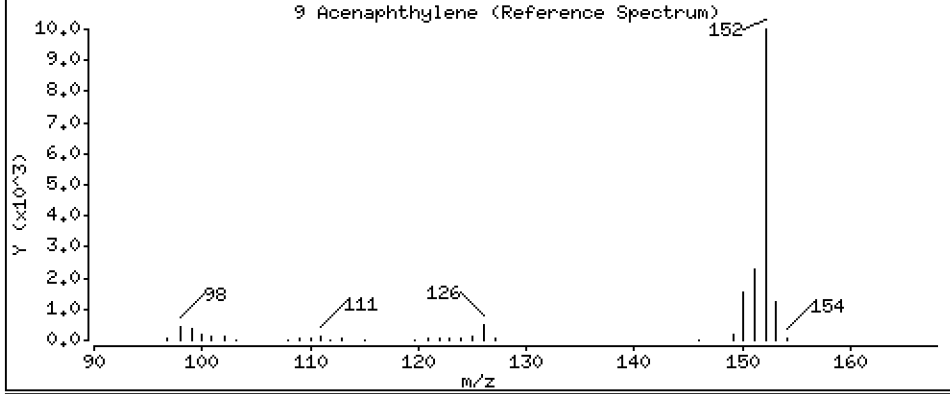
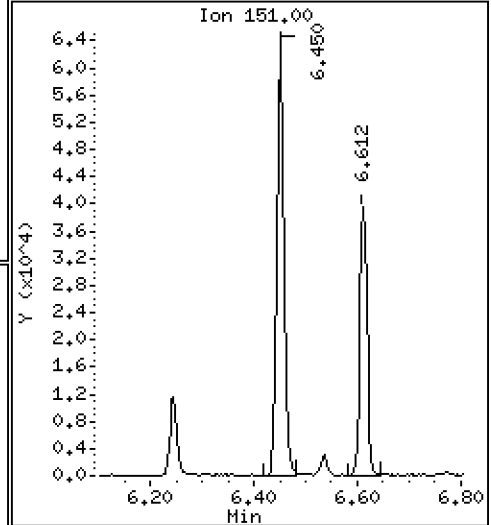
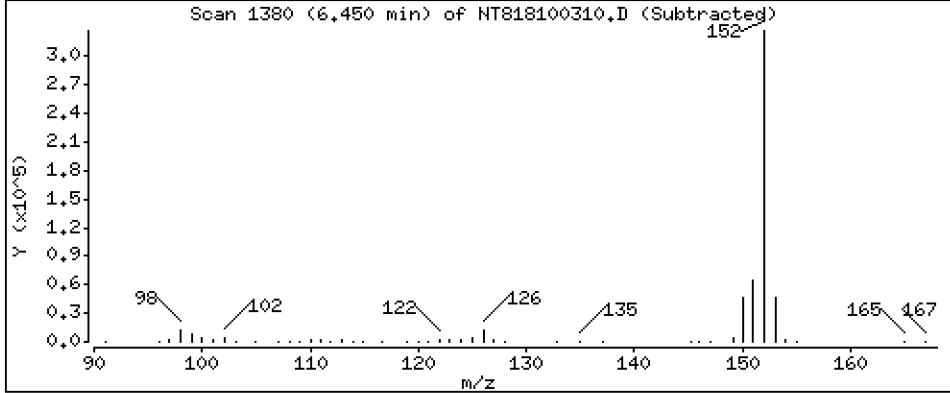
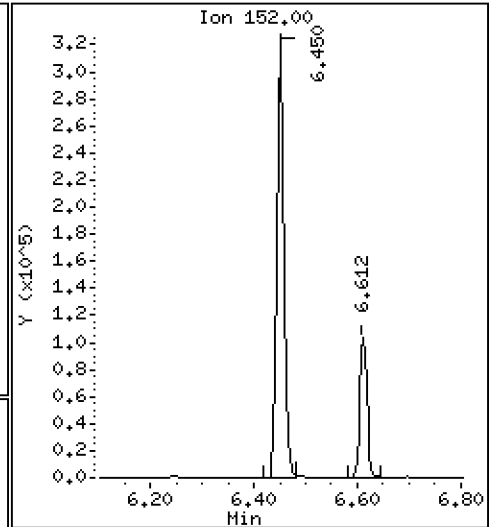
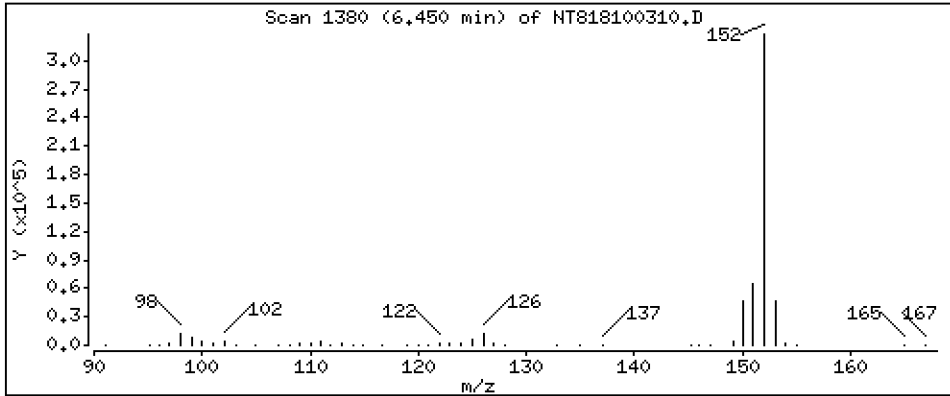
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

9 Acenaphthylene

Concentration: 3,595 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

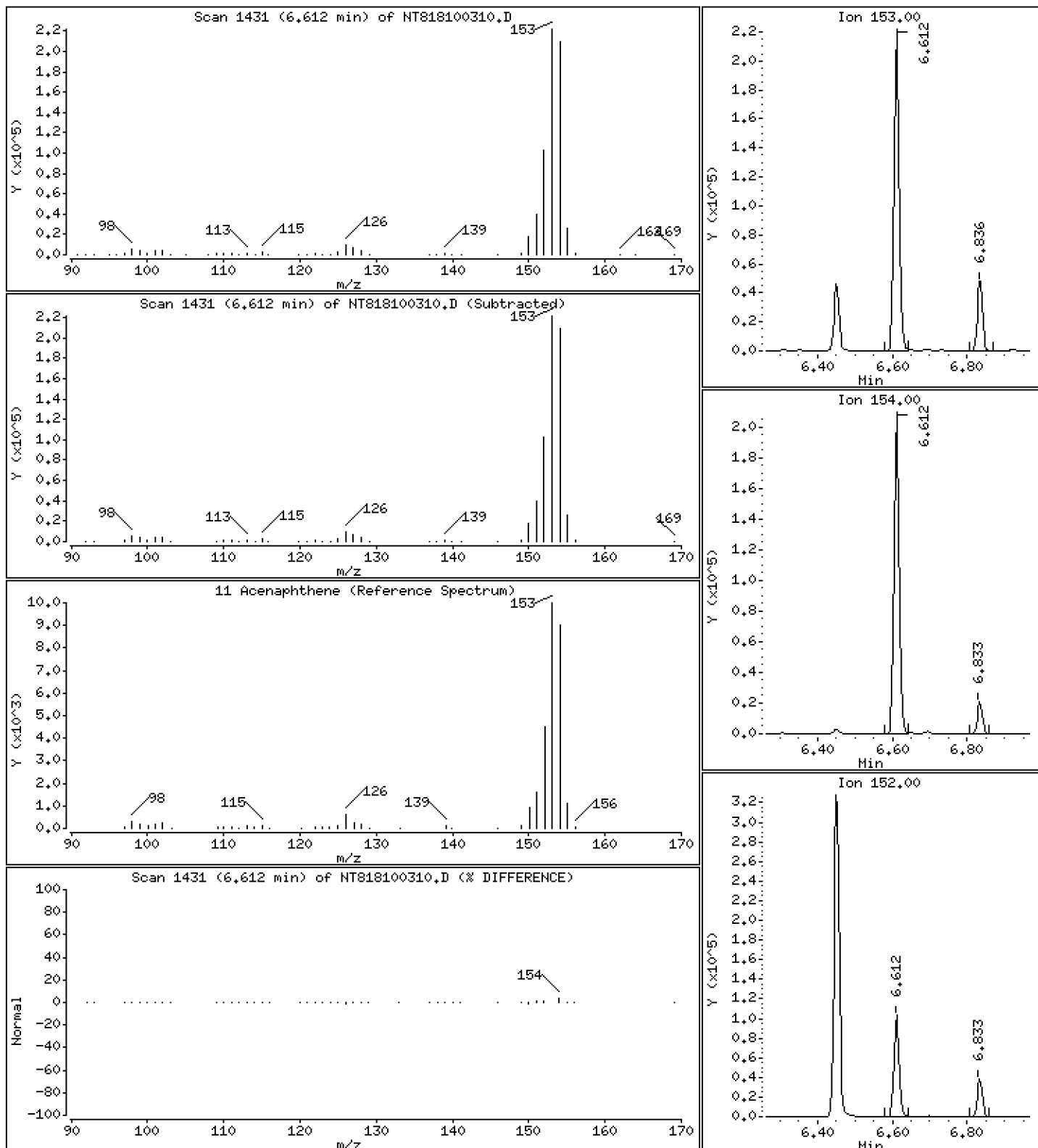
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

11 Acenaphthene

Concentration: 3.611 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

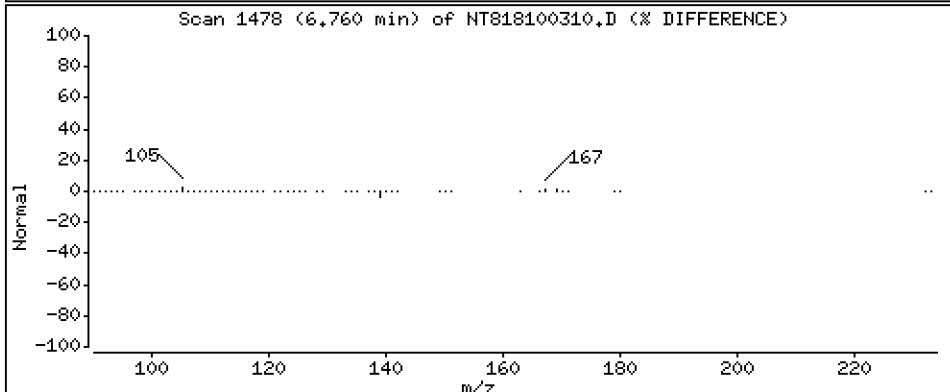
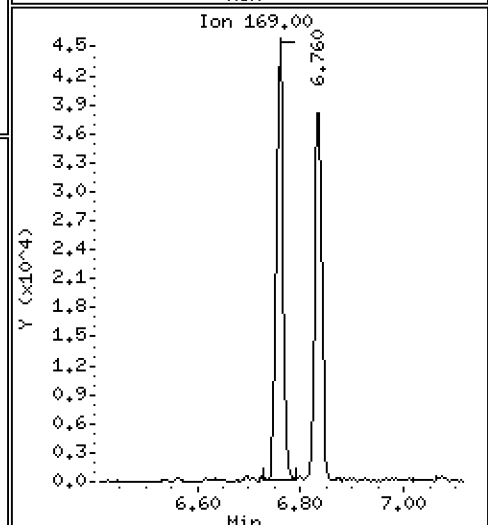
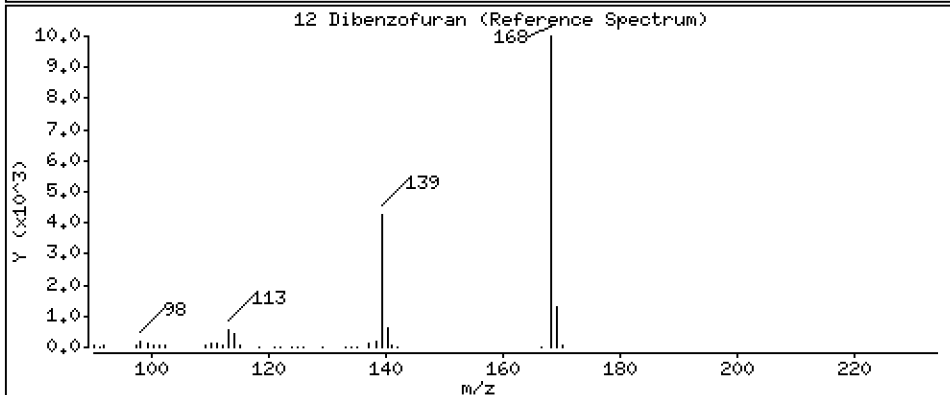
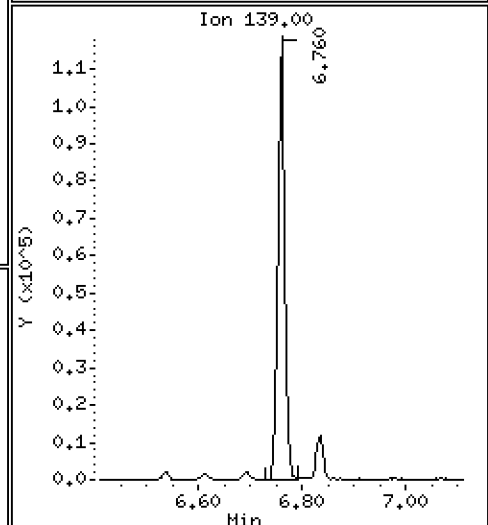
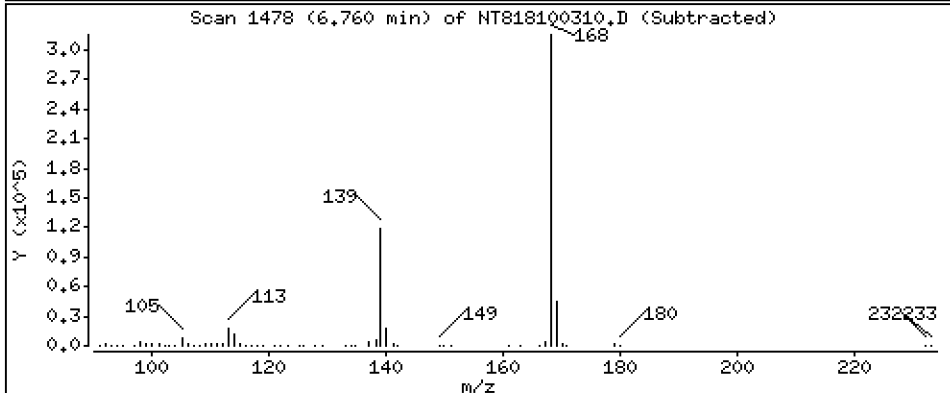
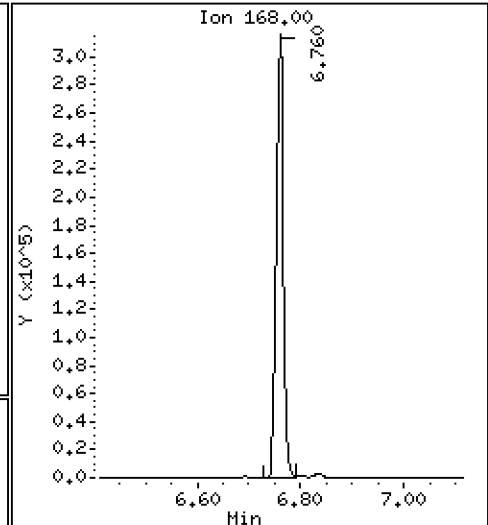
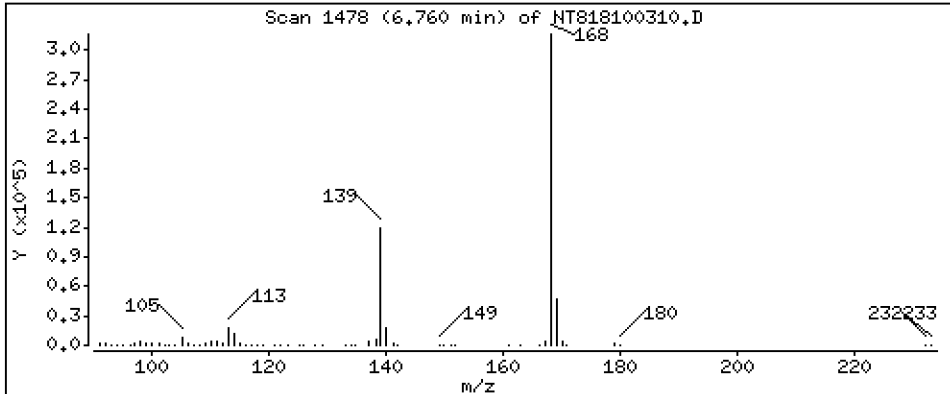
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

12 Dibenzofuran

Concentration: 3,616 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

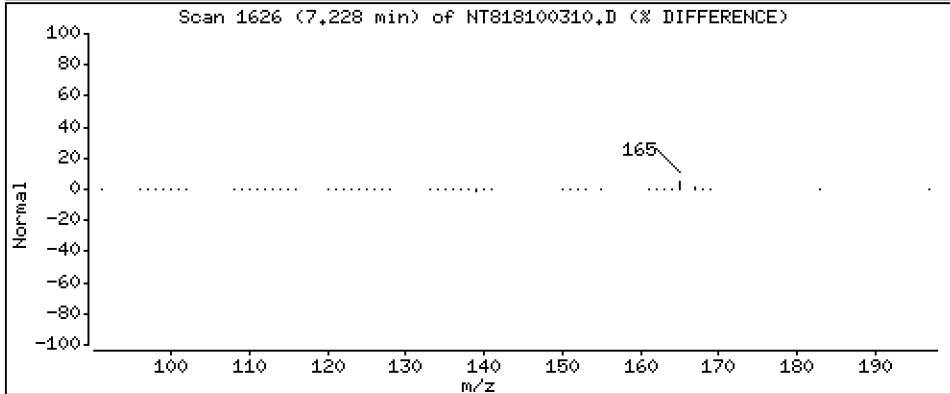
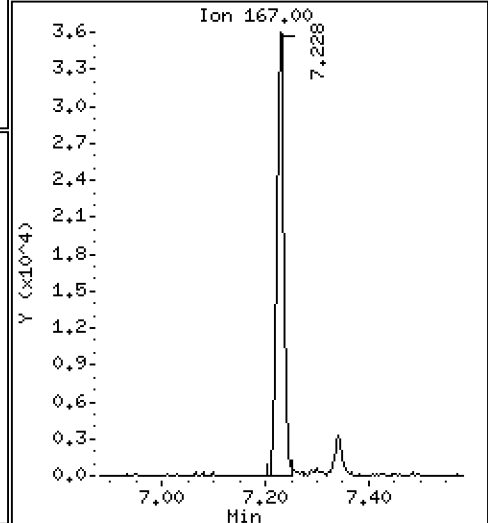
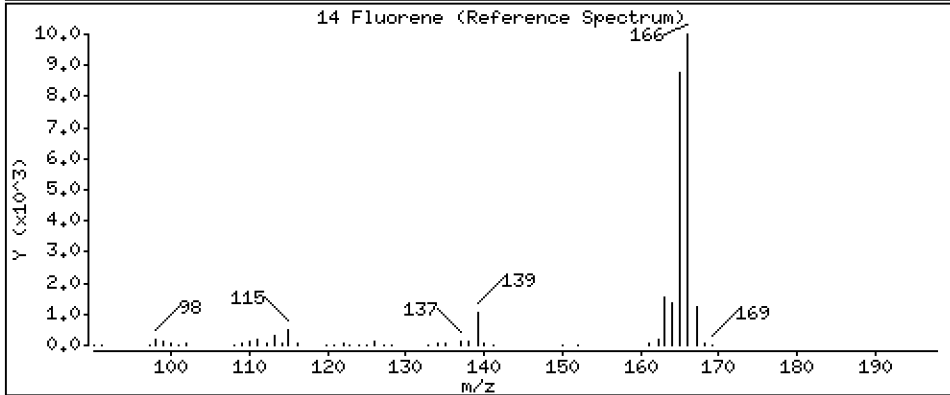
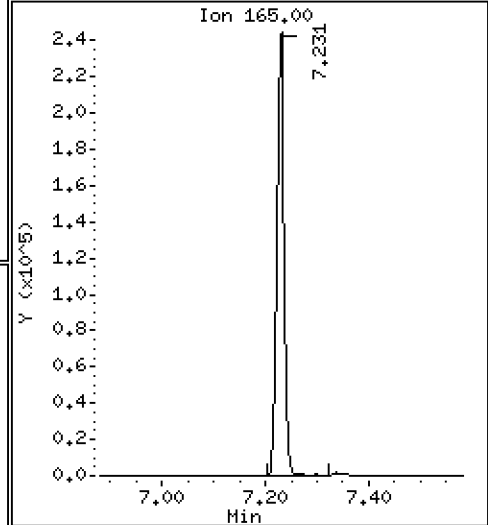
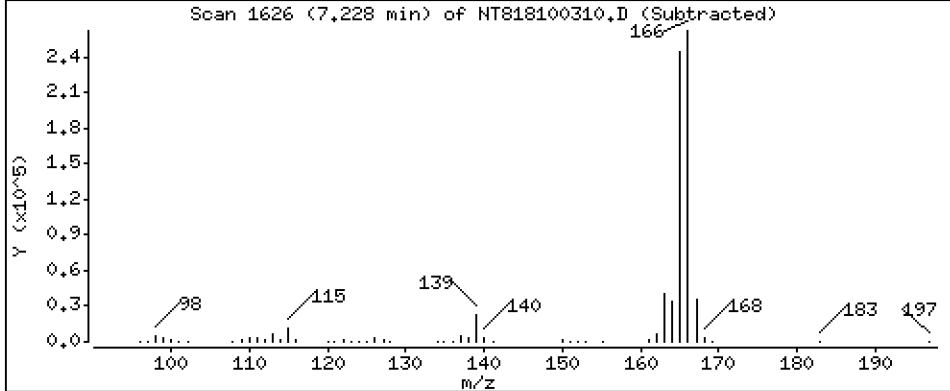
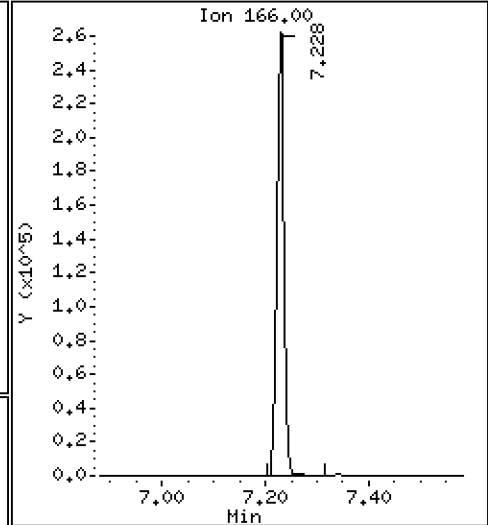
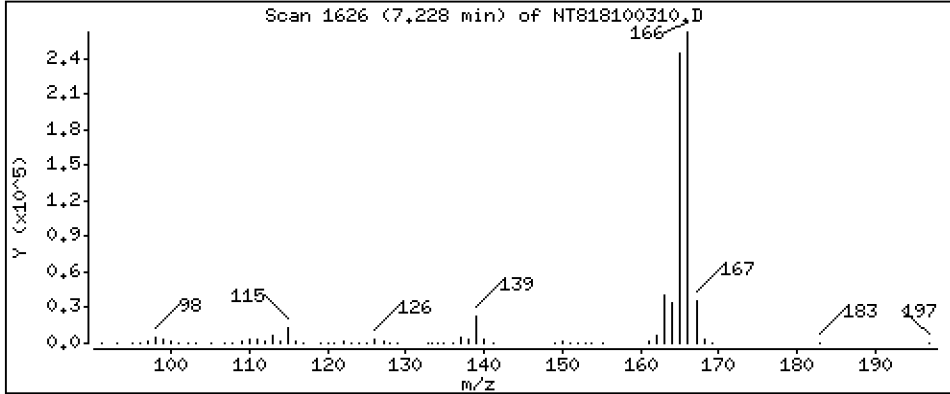
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

14 Fluorene

Concentration: 3,681 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

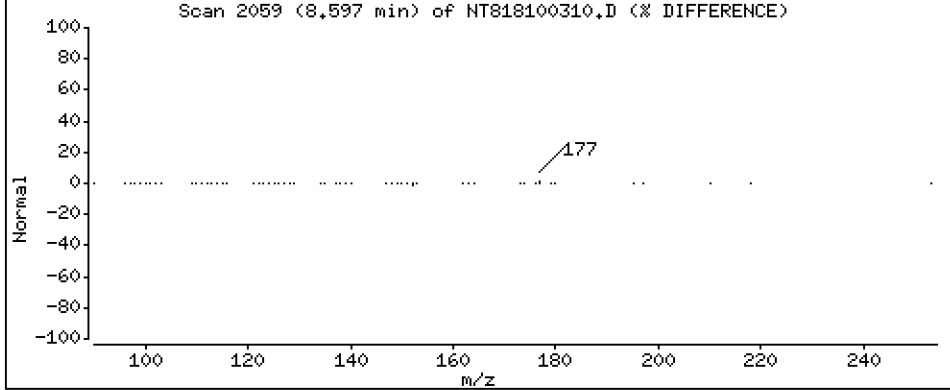
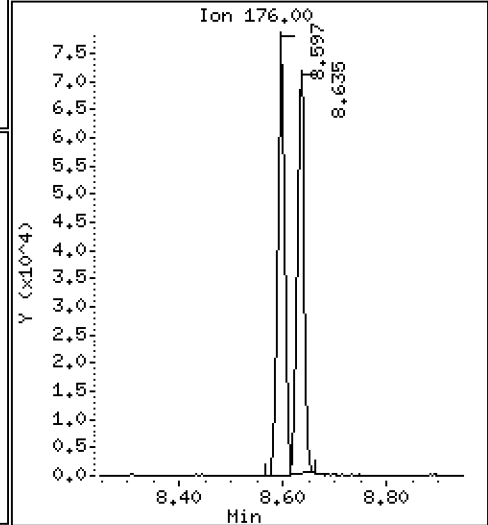
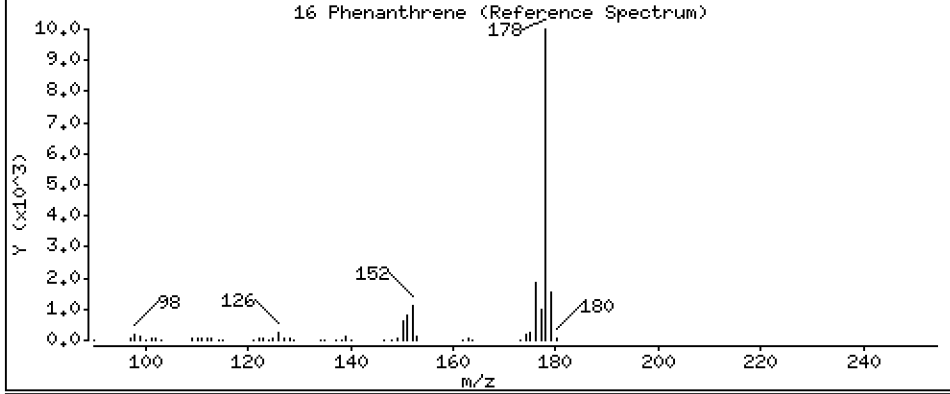
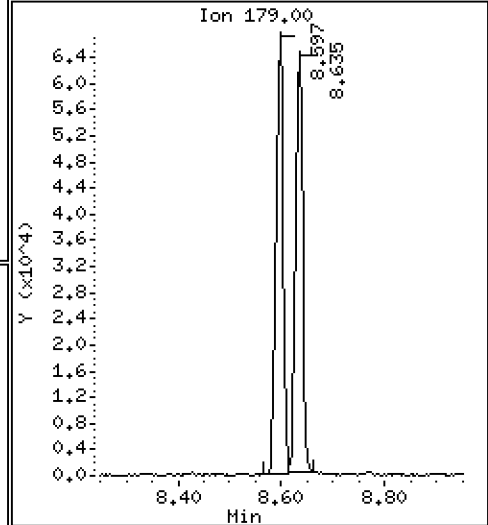
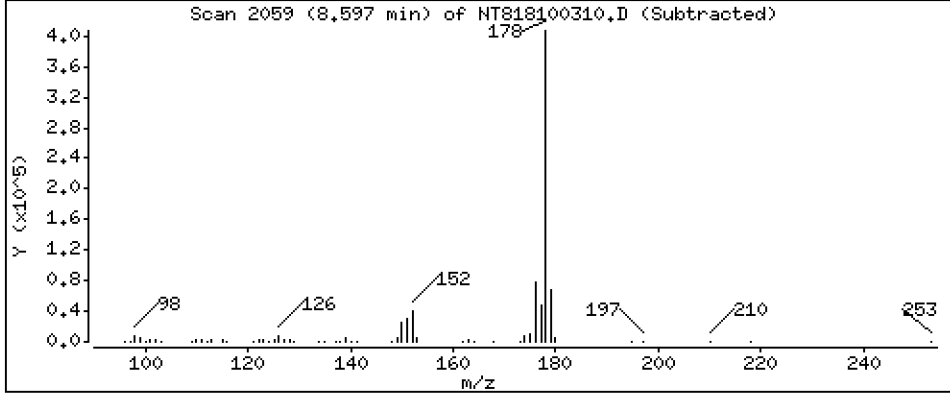
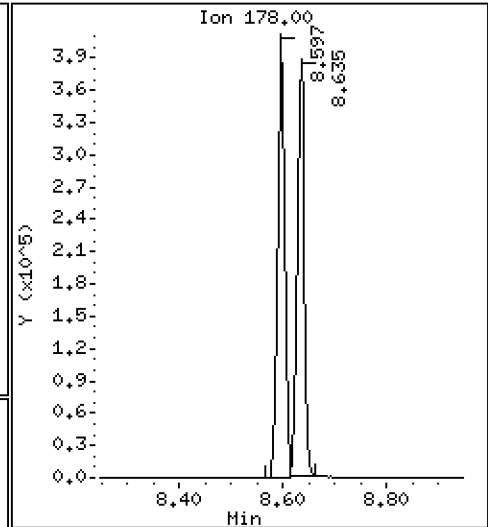
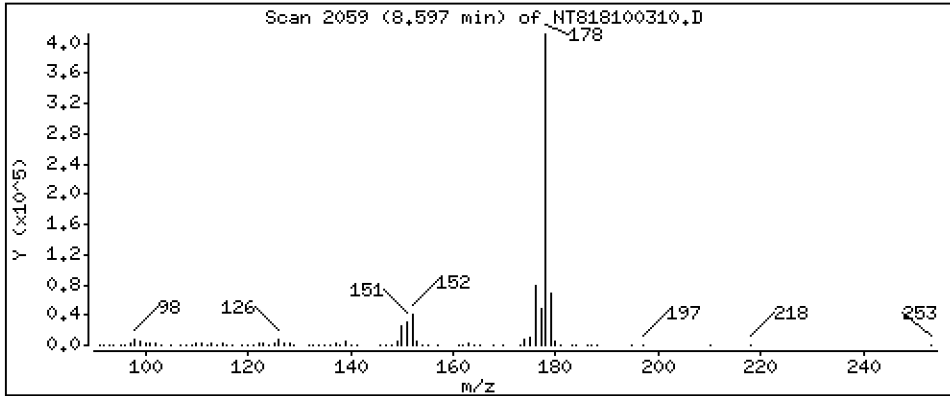
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

16 Phenanthrene

Concentration: 4.434 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

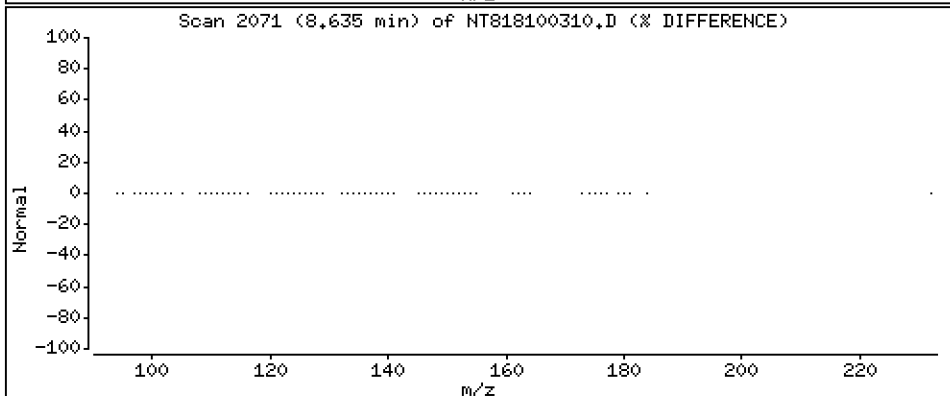
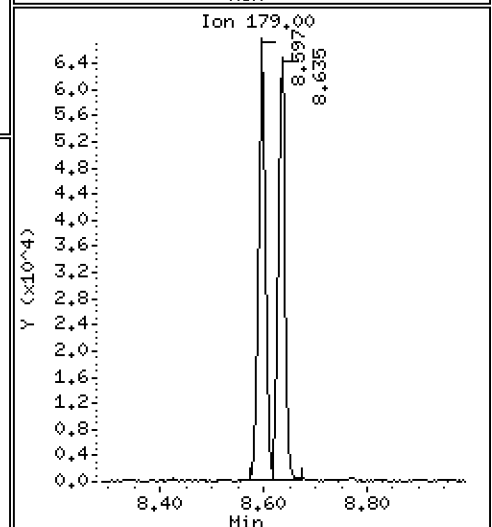
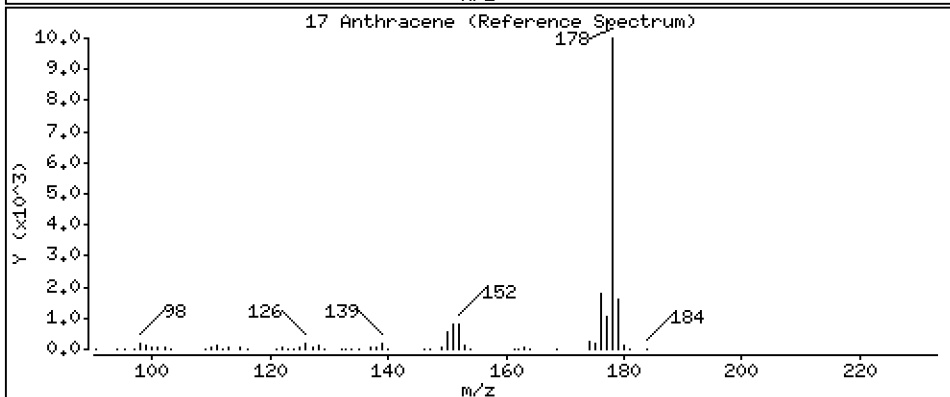
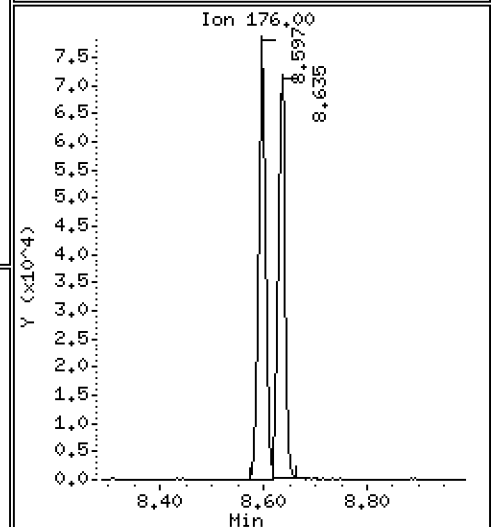
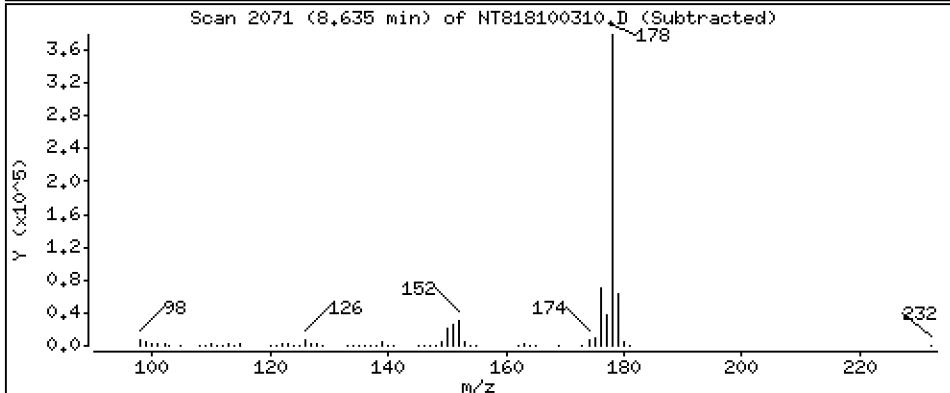
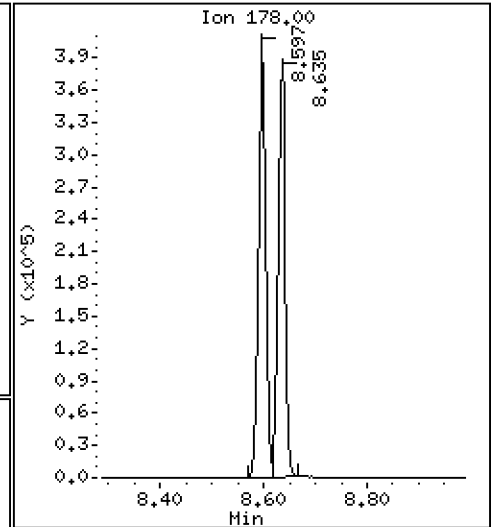
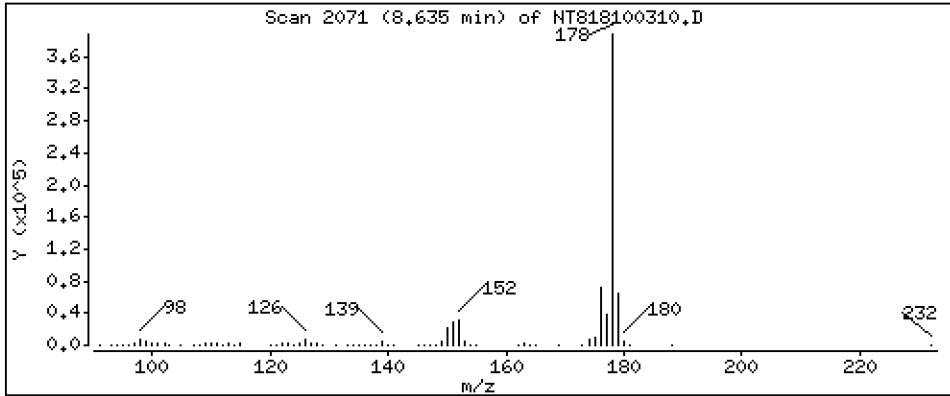
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

17 Anthracene

Concentration: 4,103 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

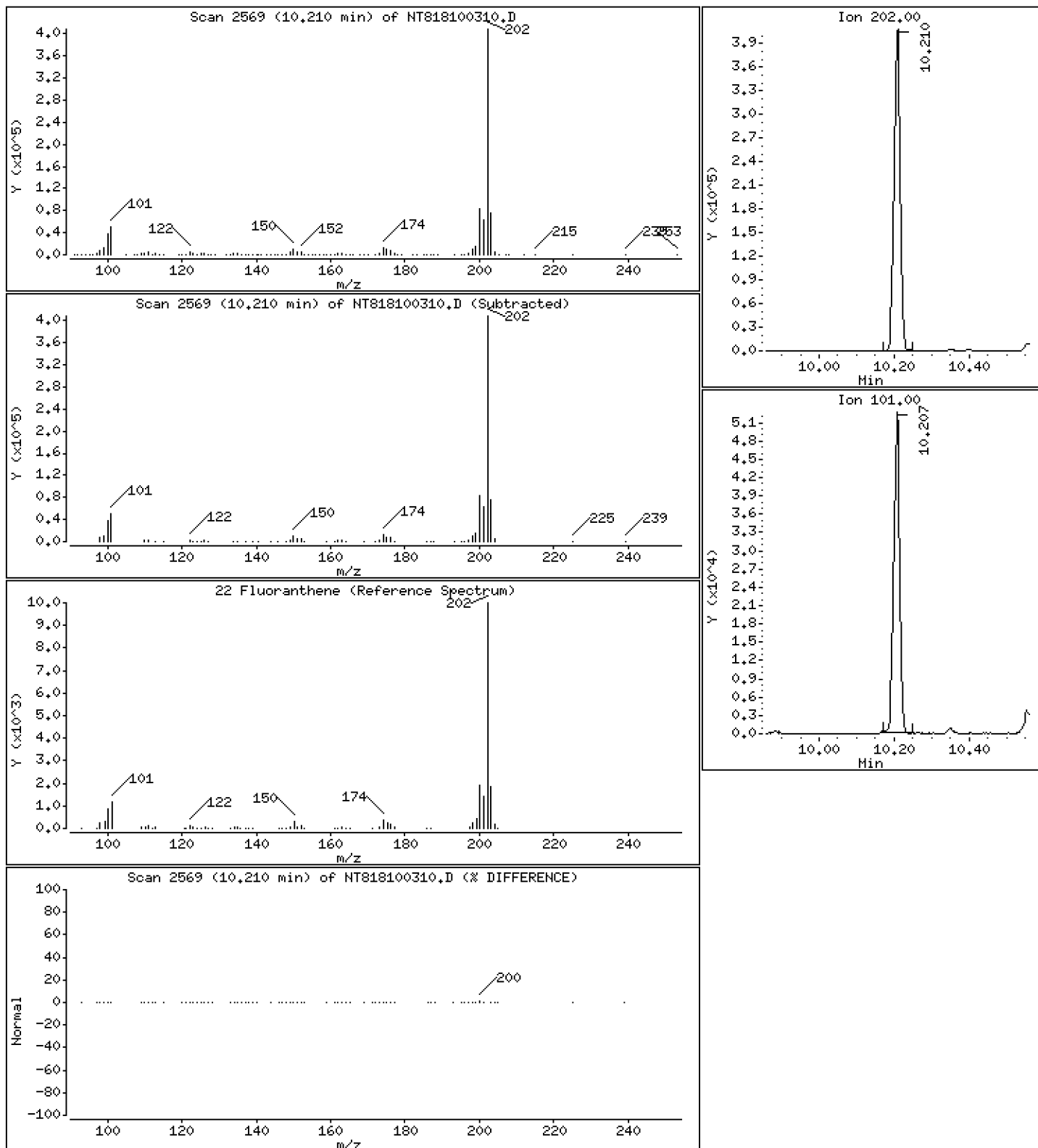
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 4,428 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

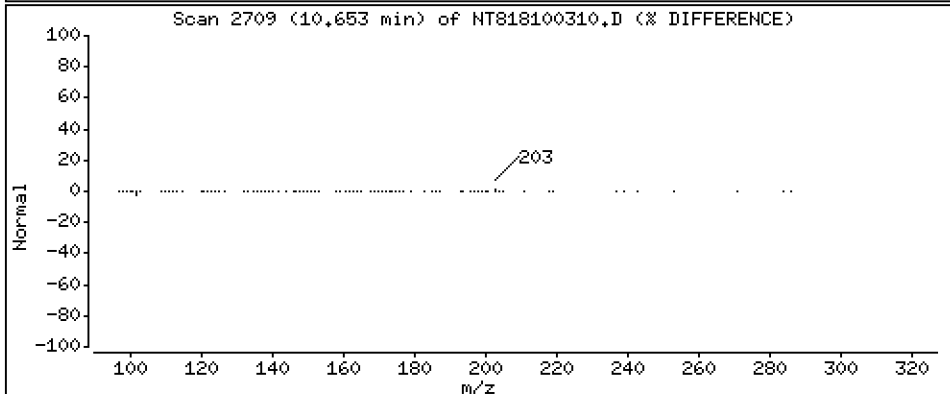
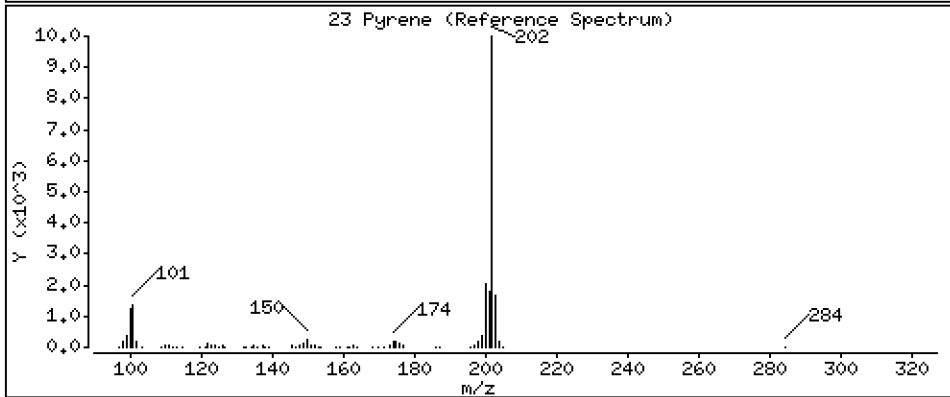
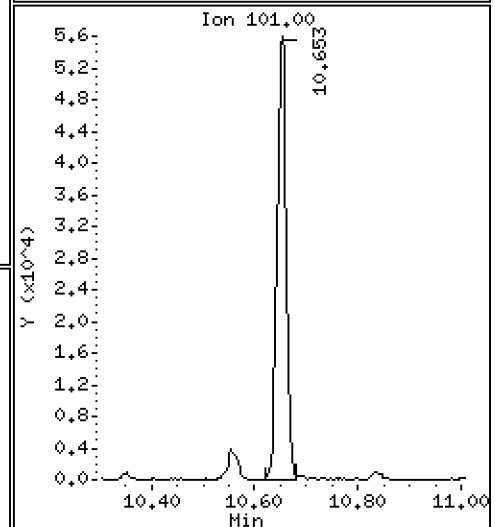
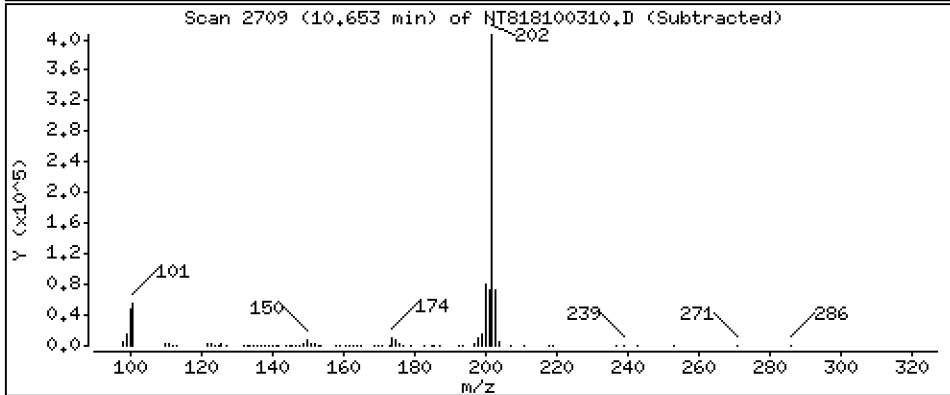
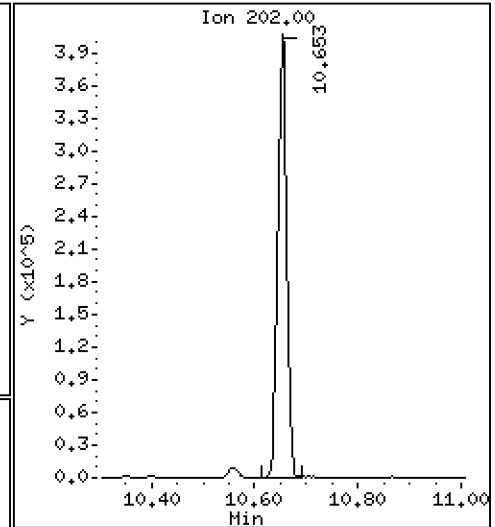
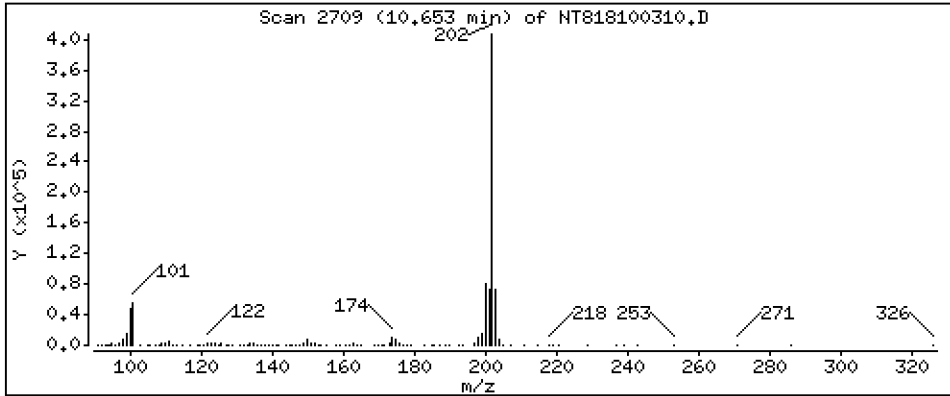
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 4,603 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

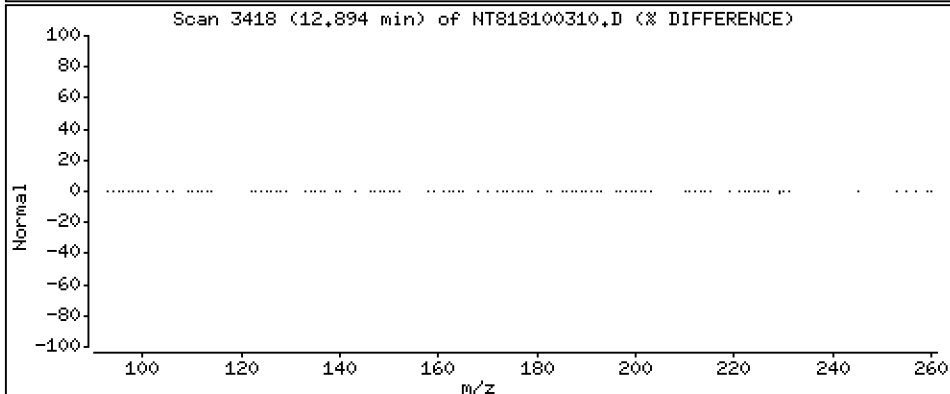
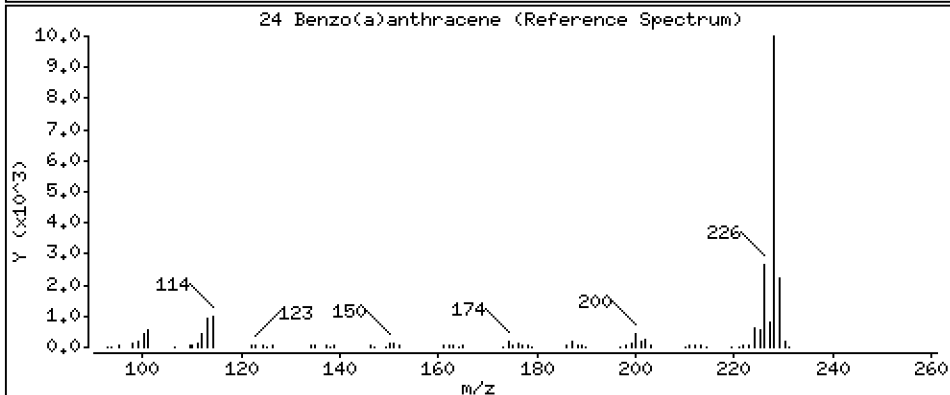
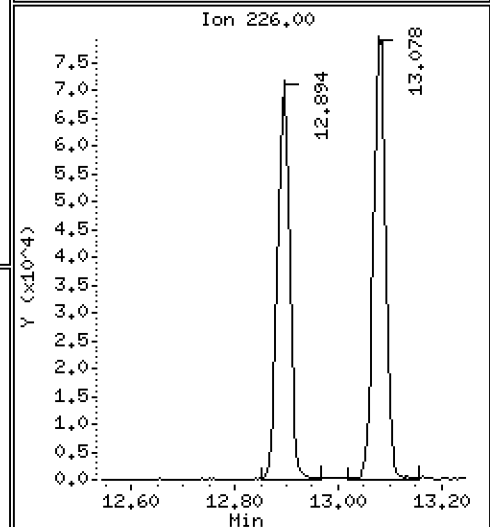
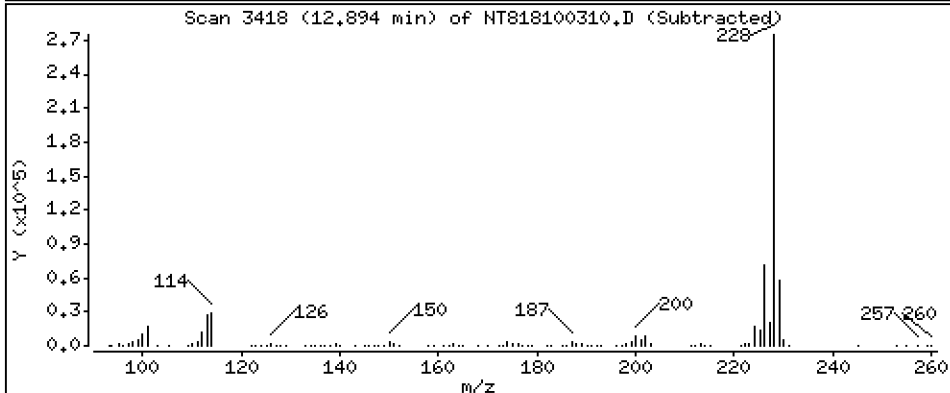
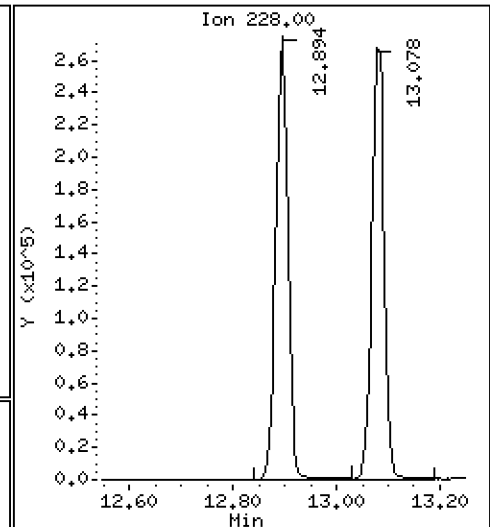
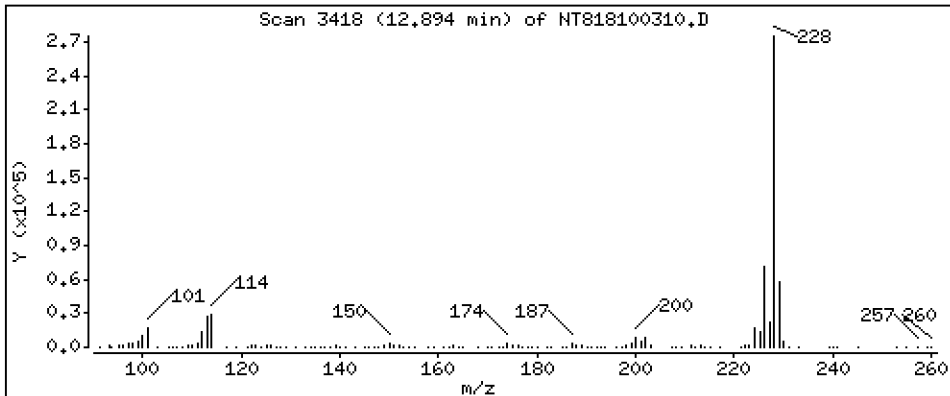
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 4,455 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

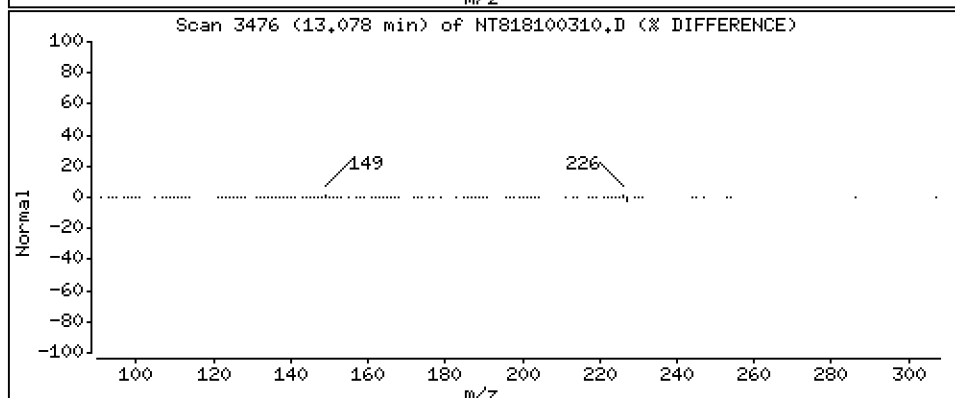
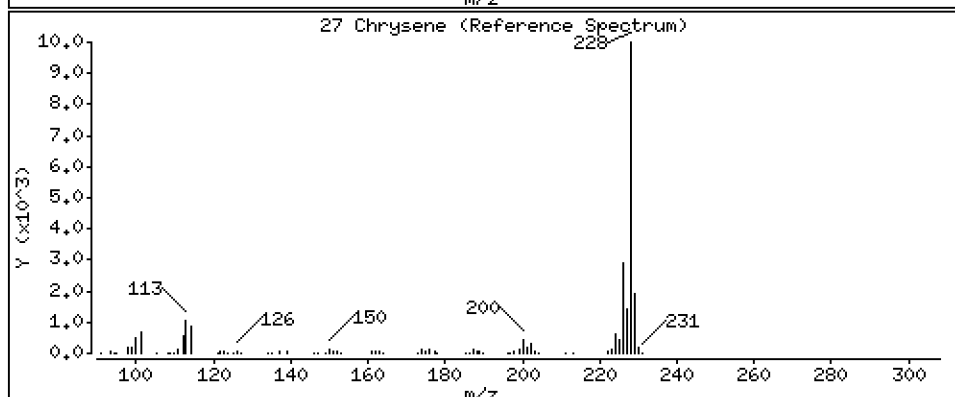
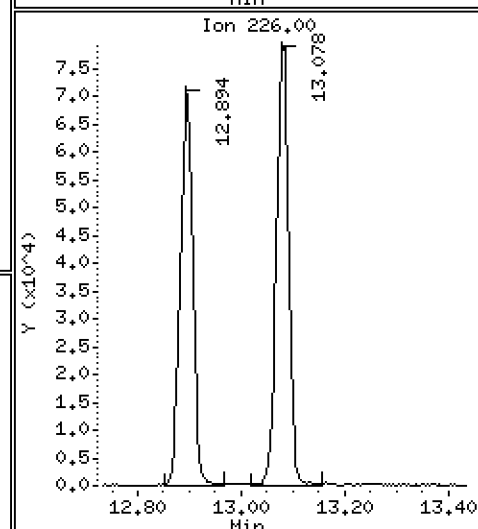
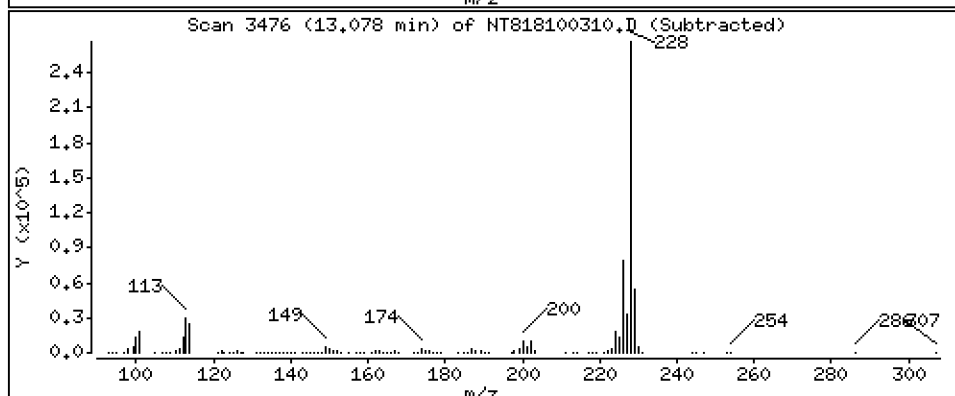
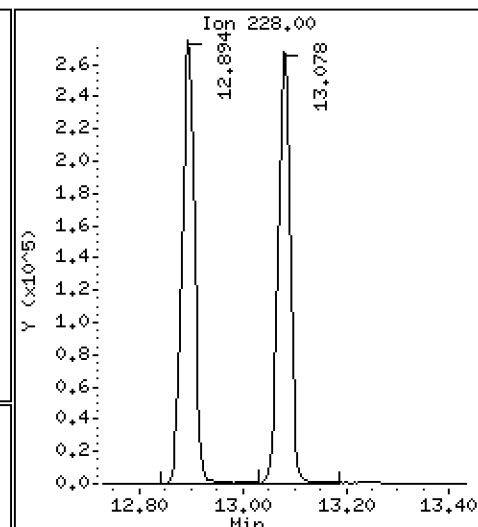
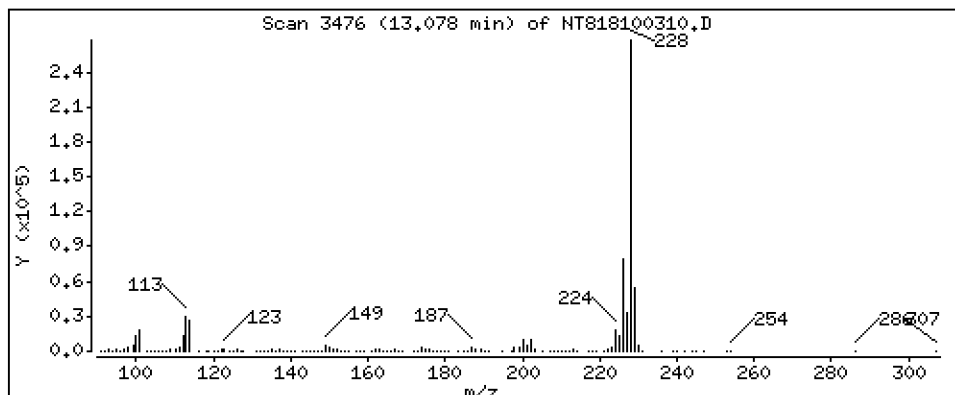
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 4,542 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

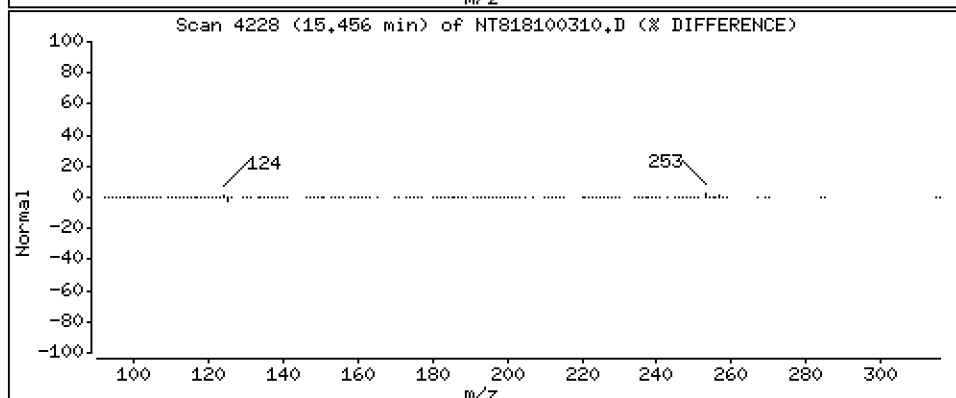
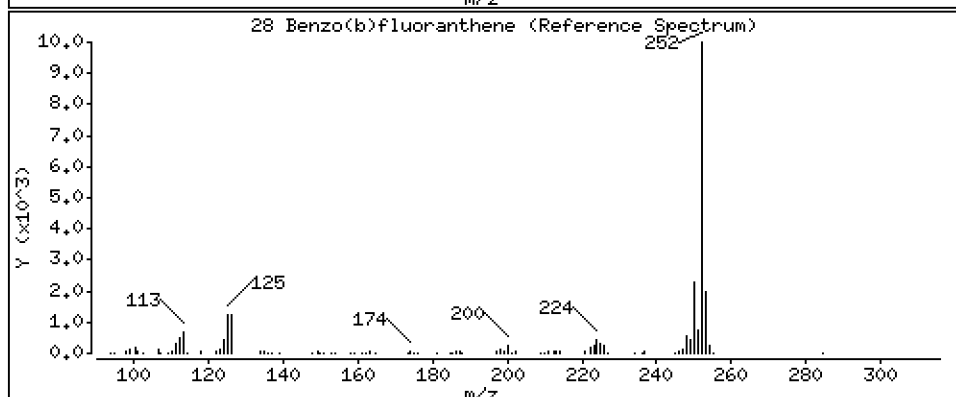
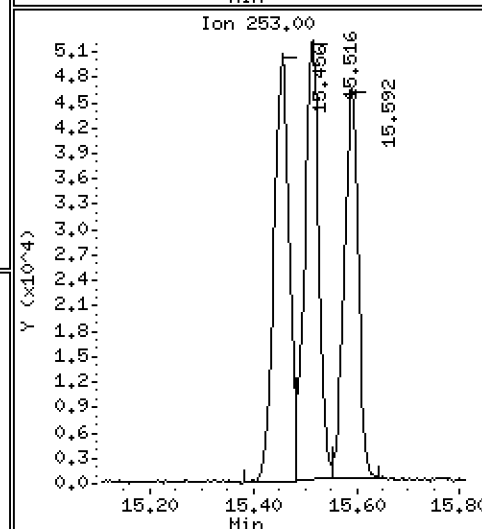
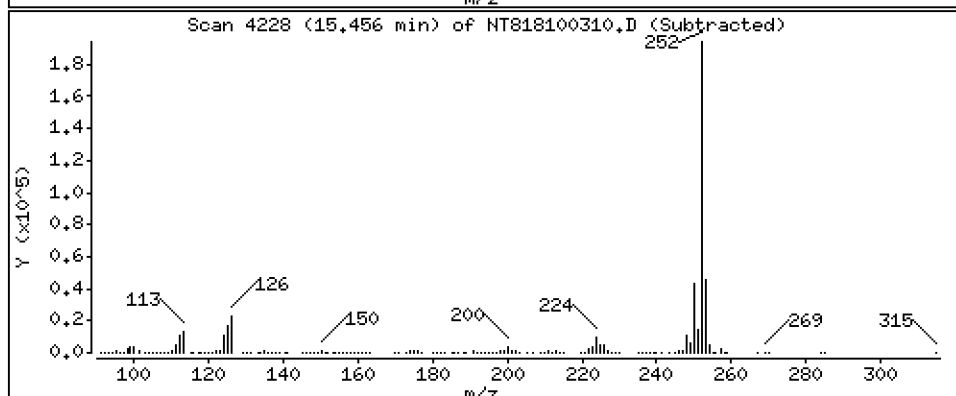
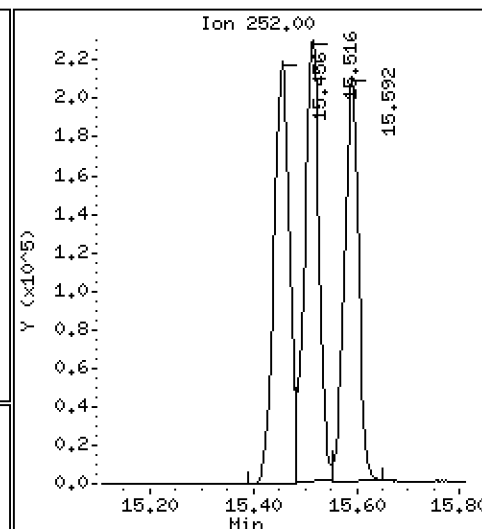
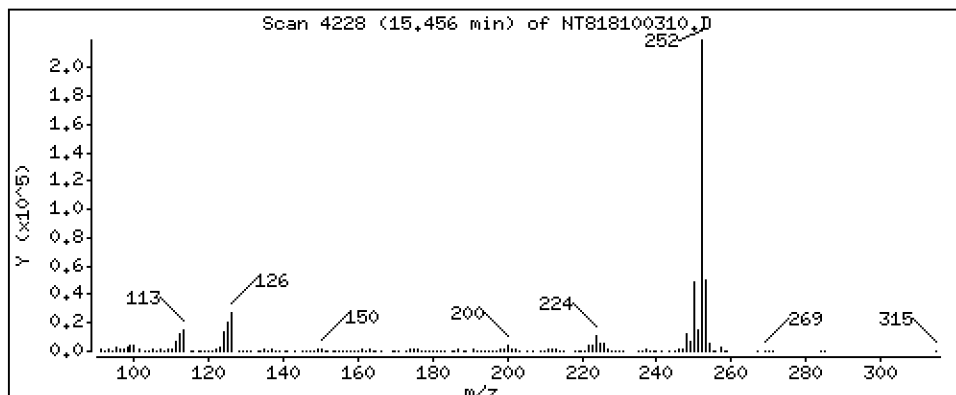
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 4,204 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

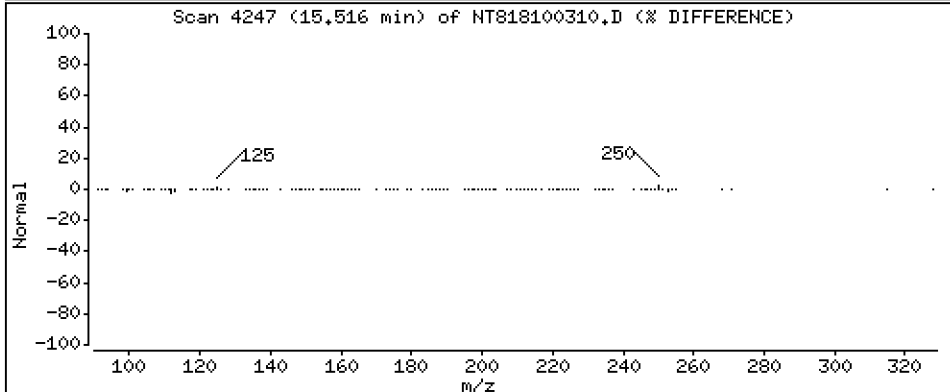
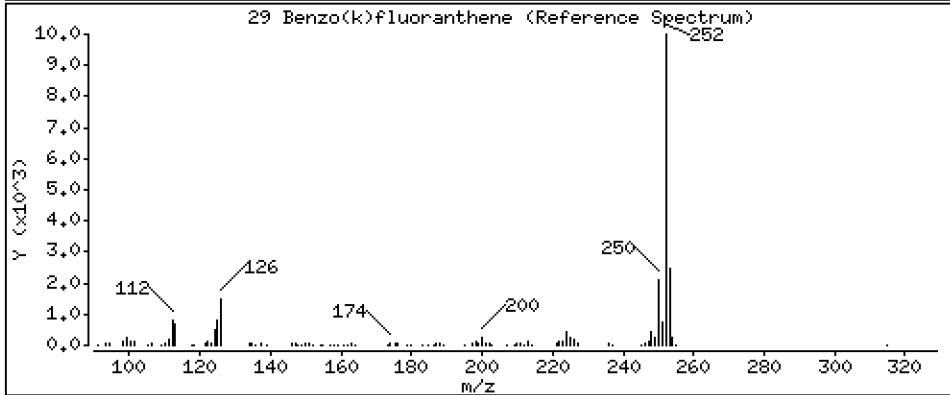
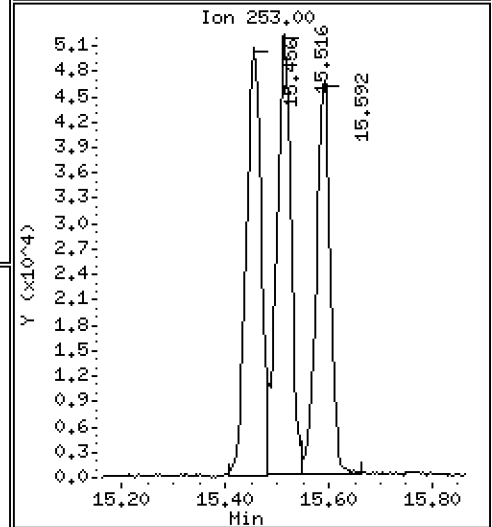
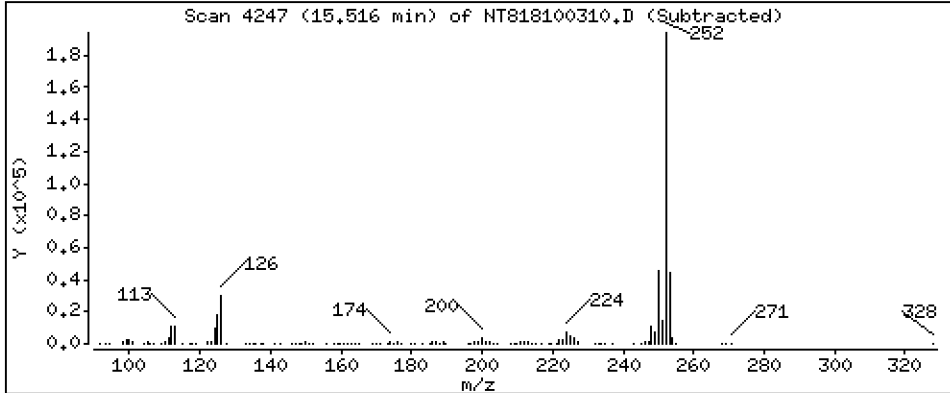
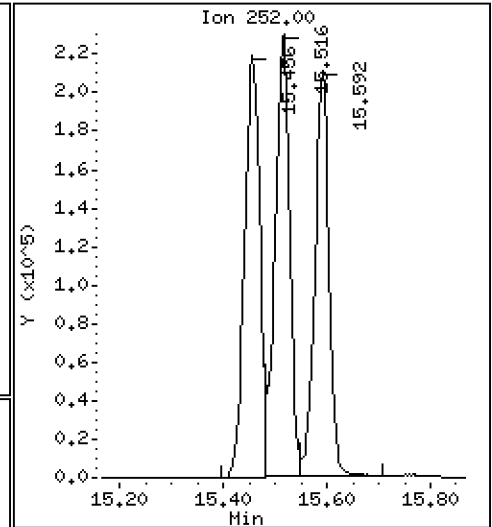
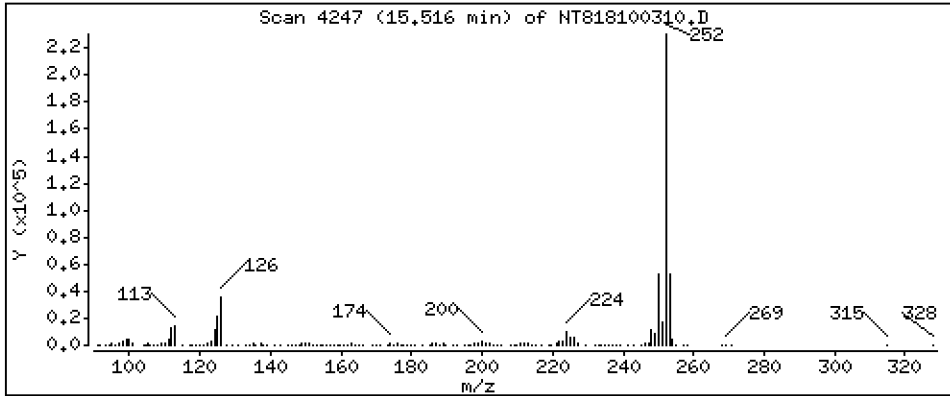
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 4,239 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

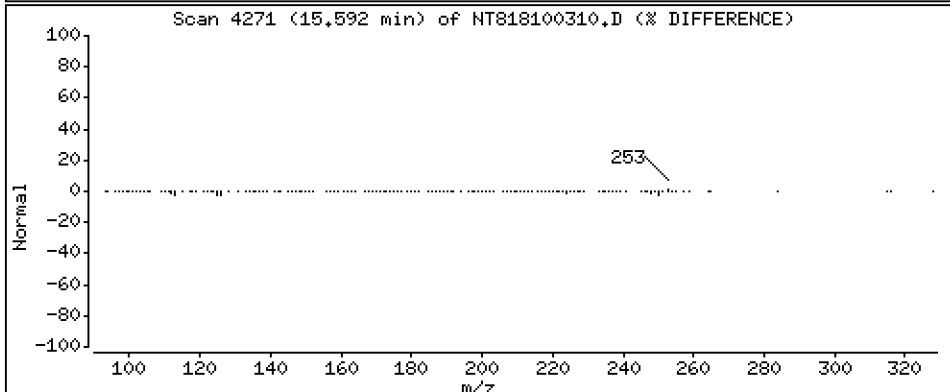
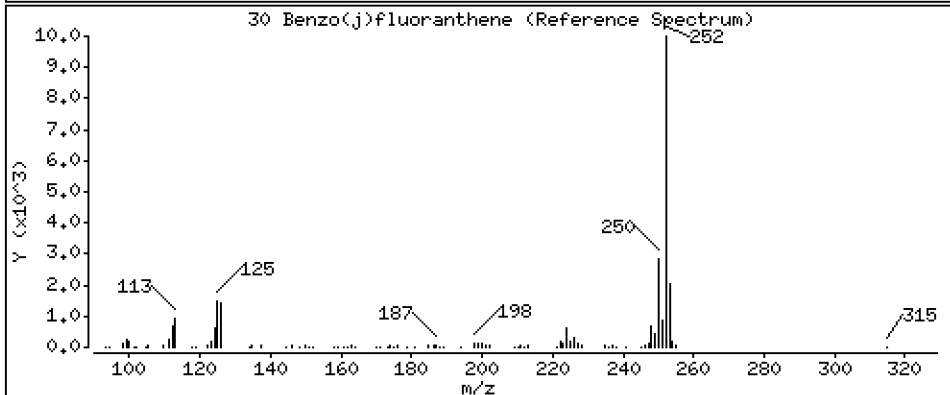
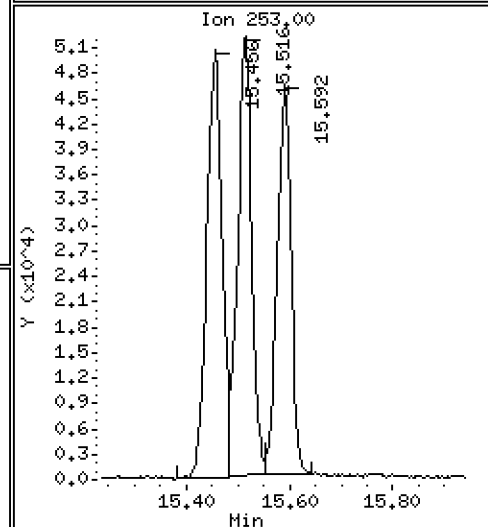
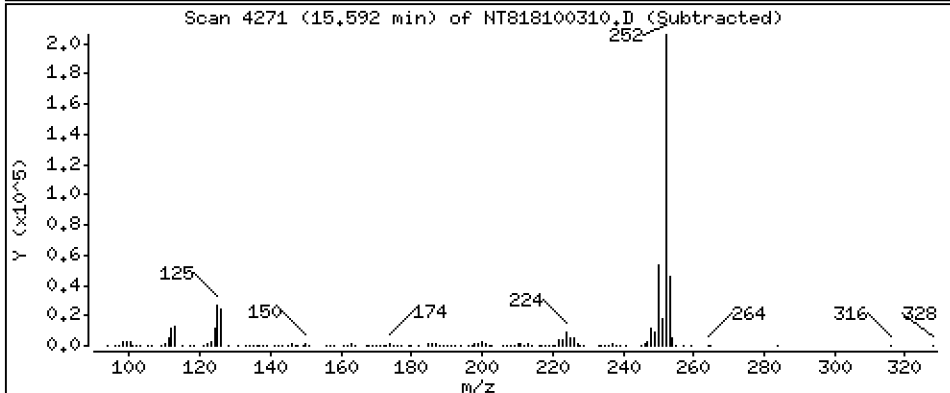
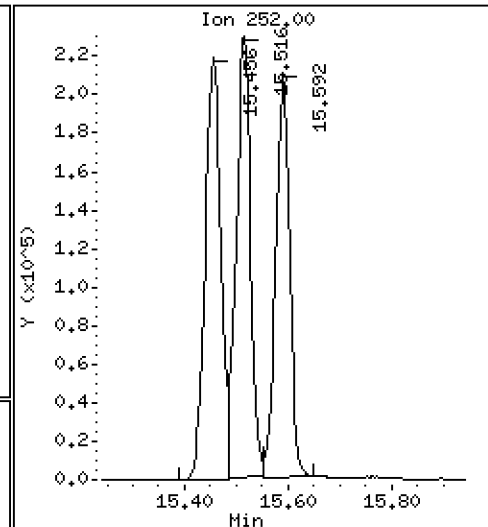
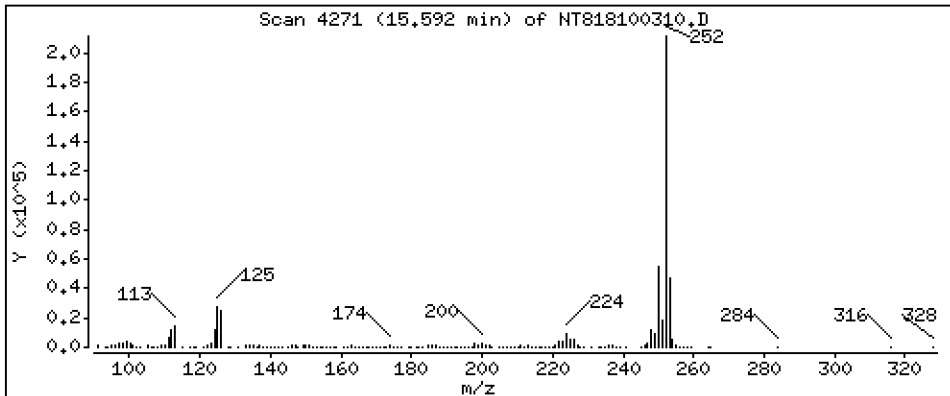
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 3,824 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

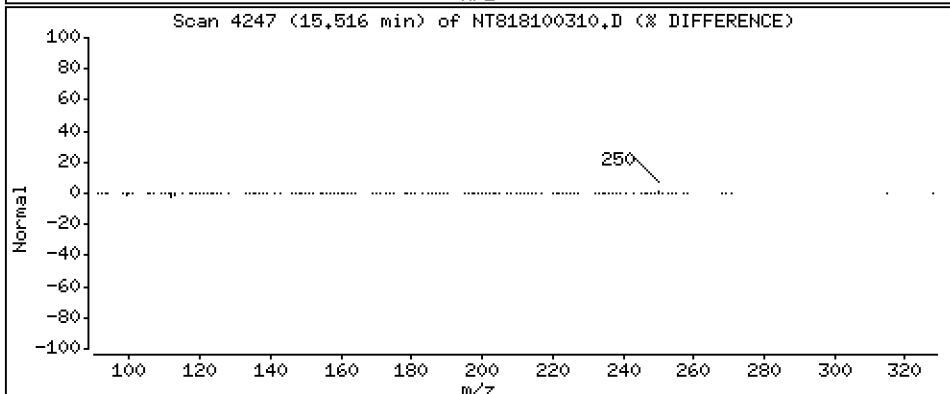
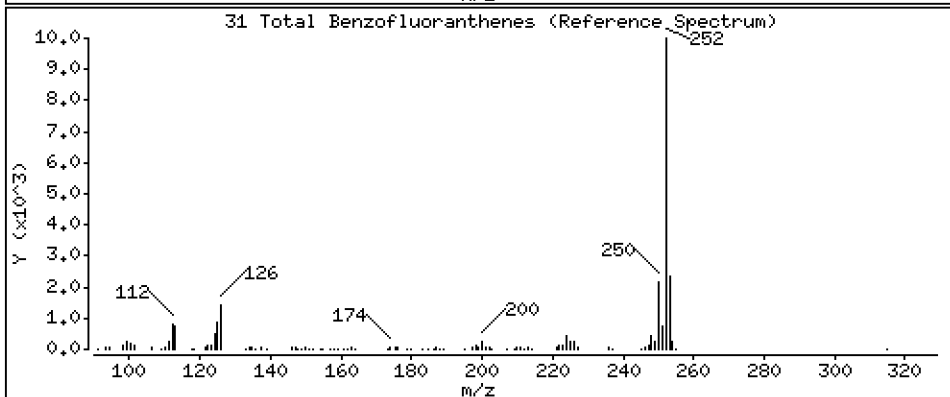
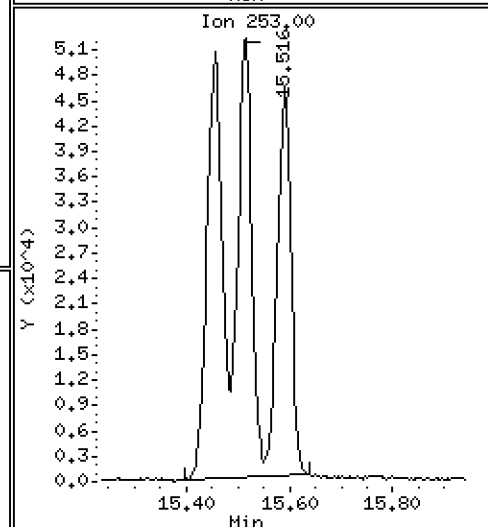
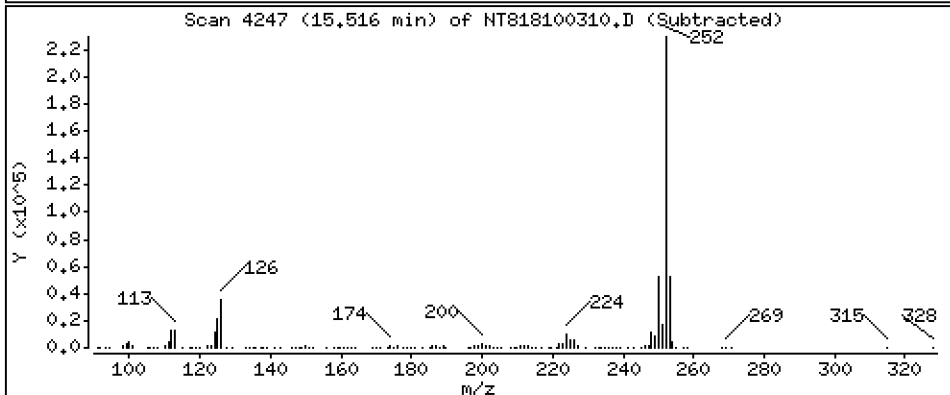
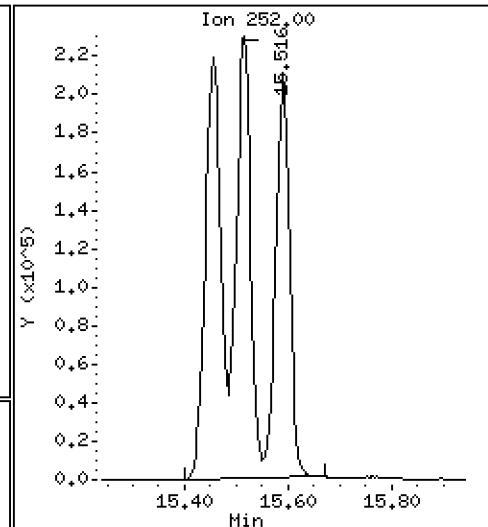
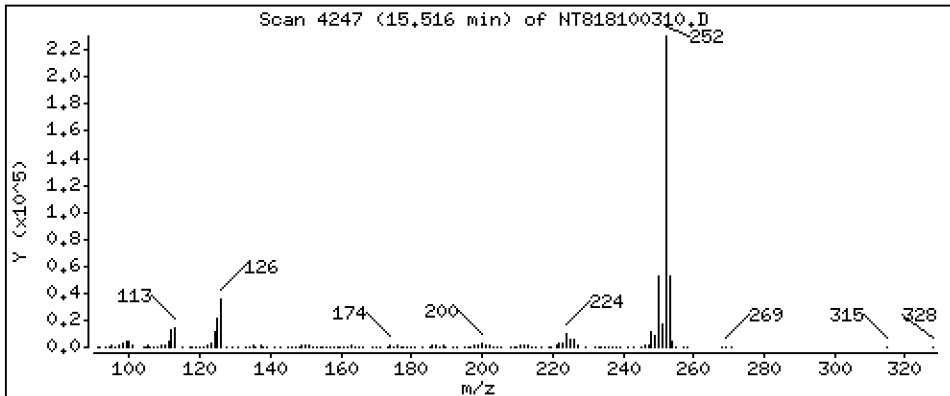
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 12,21 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

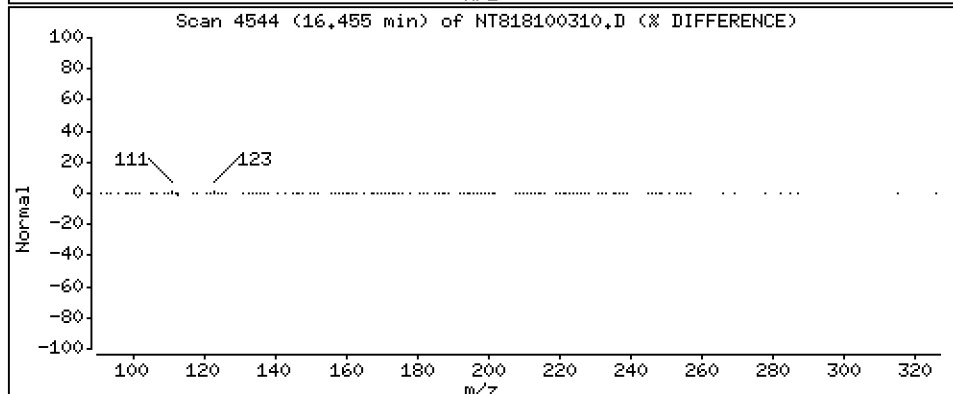
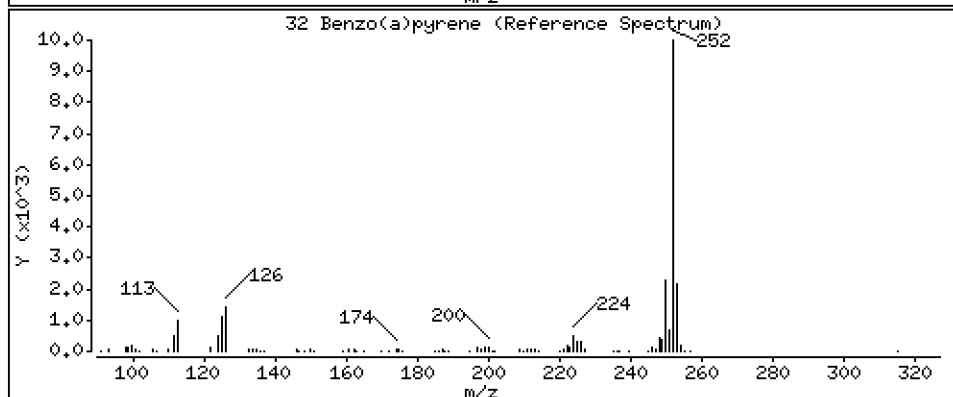
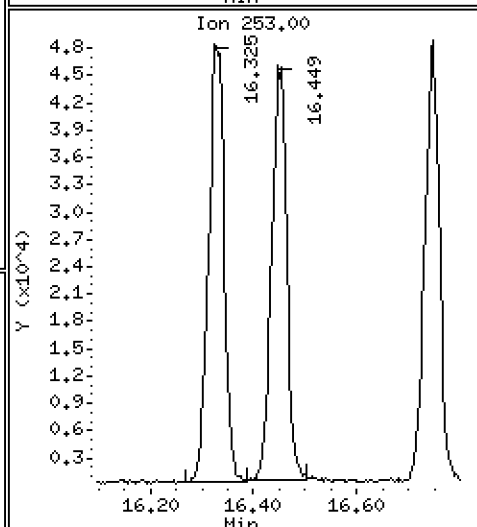
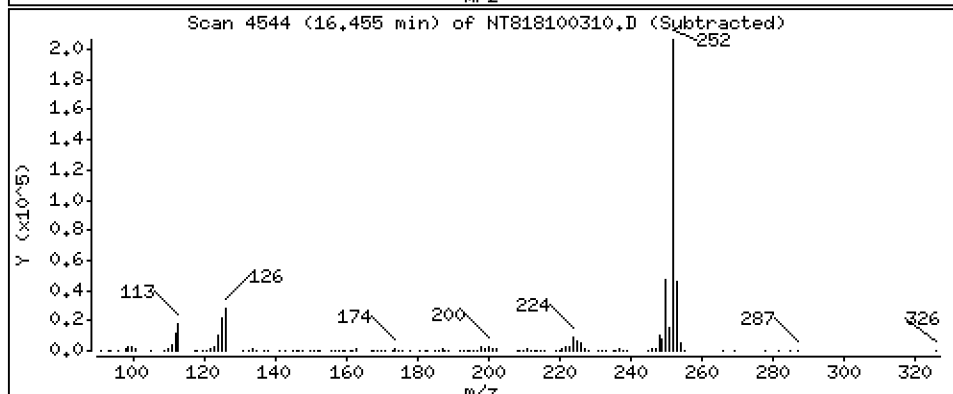
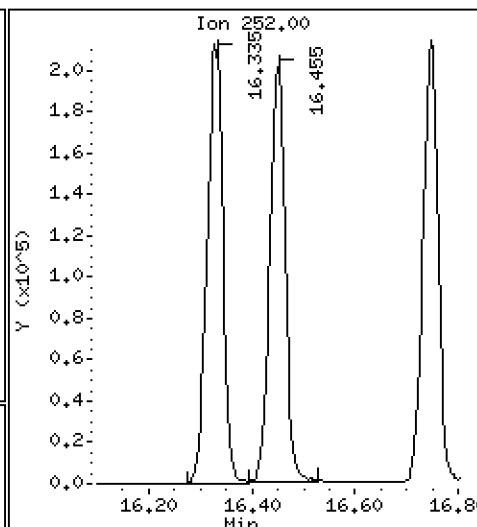
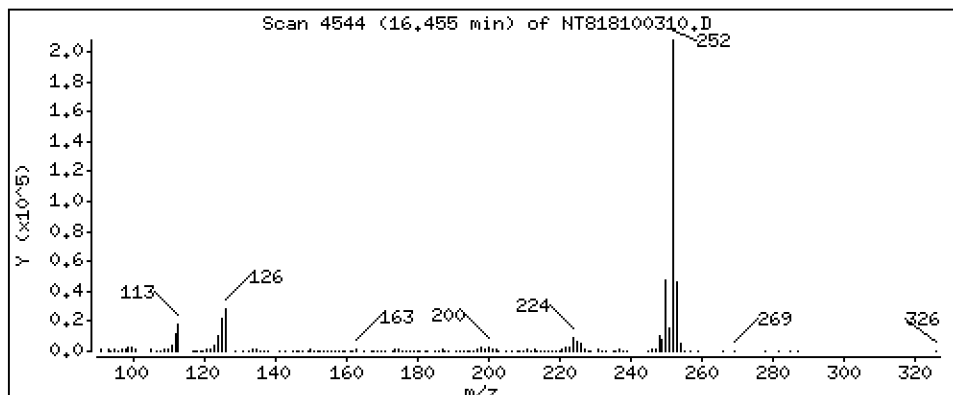
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 4,269 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

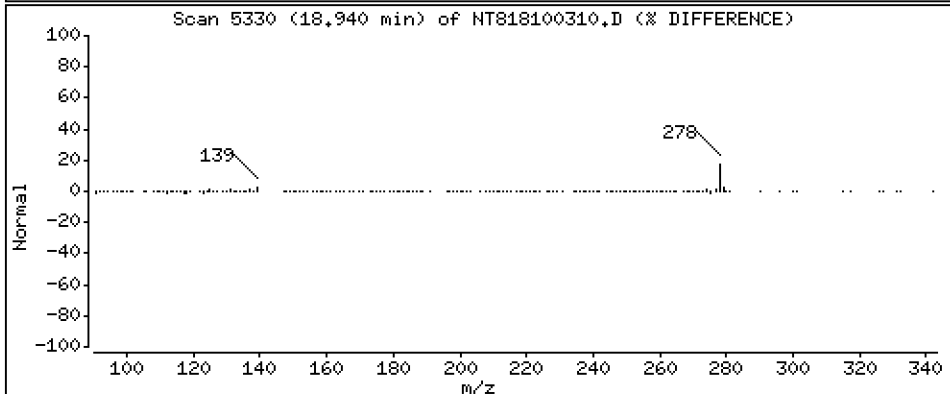
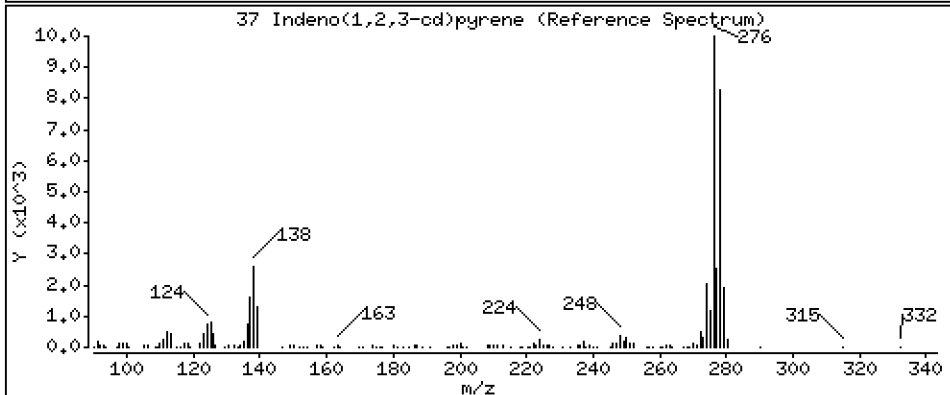
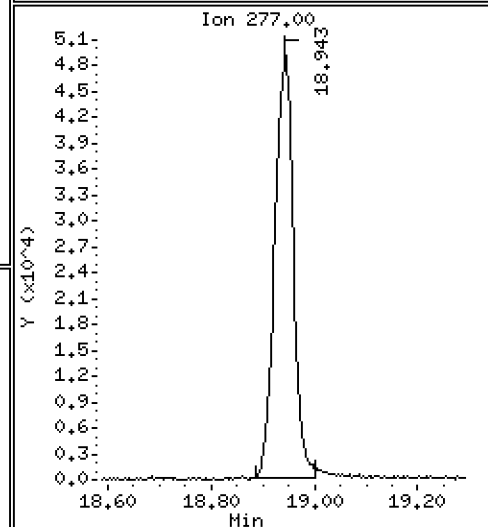
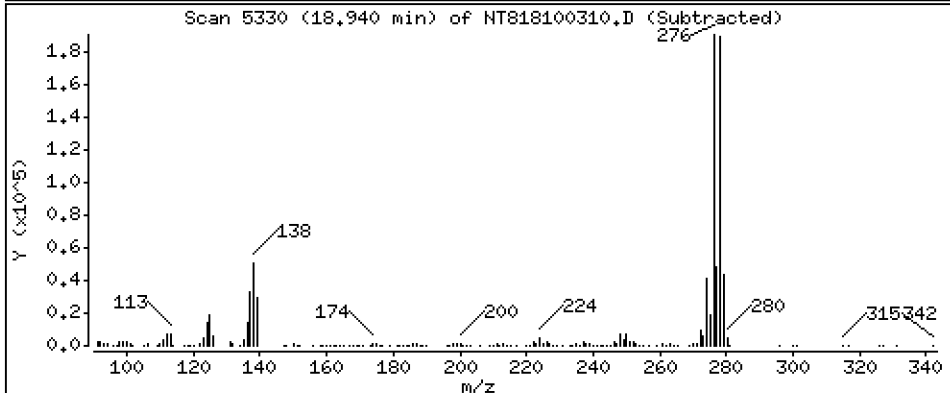
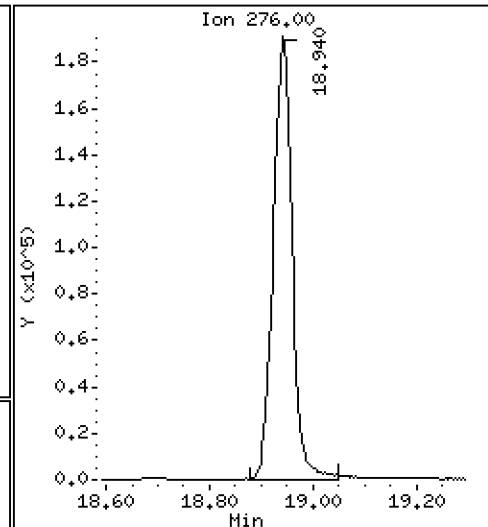
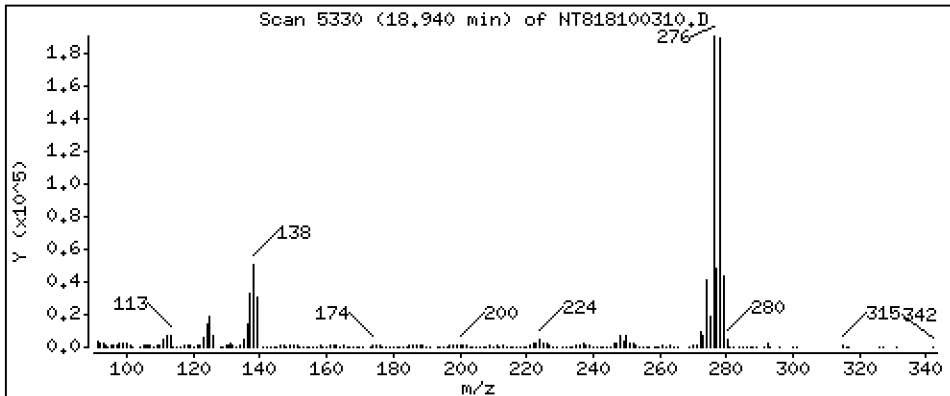
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 4,659 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

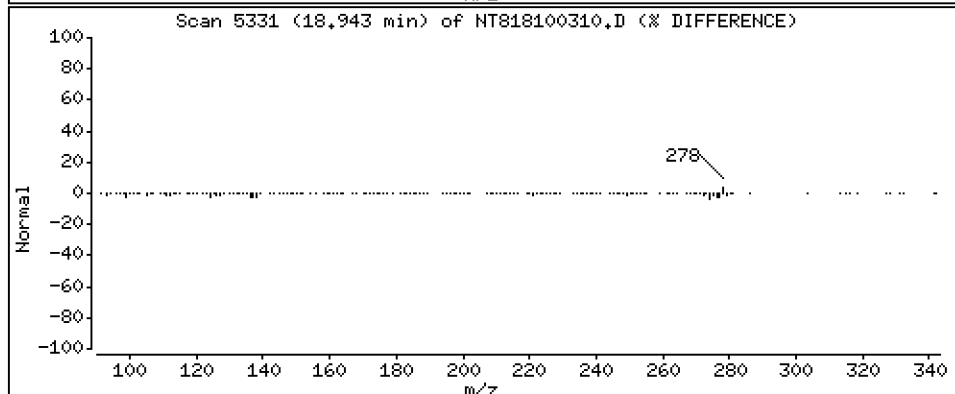
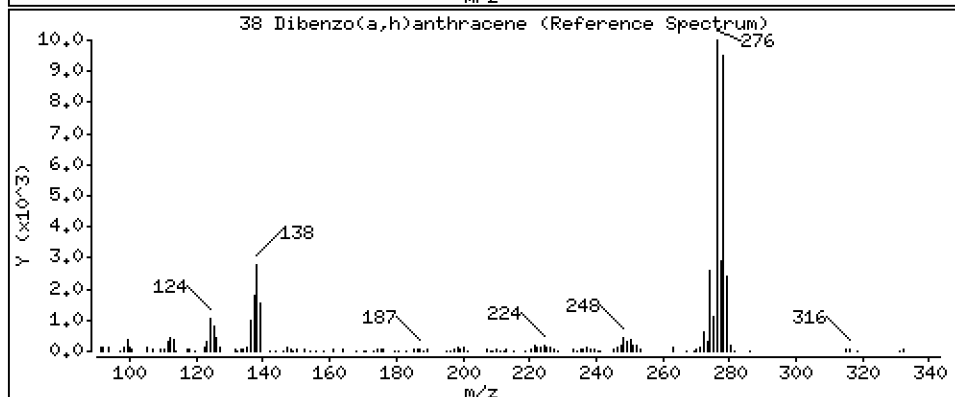
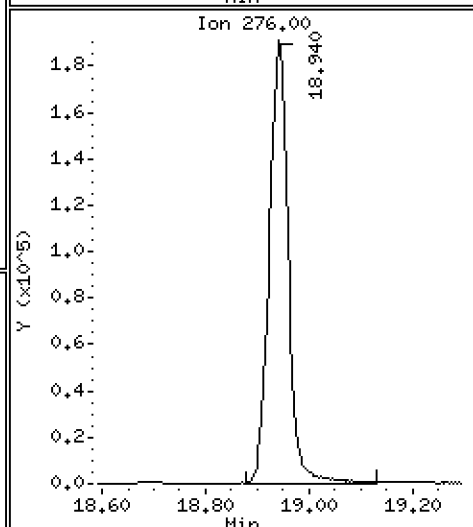
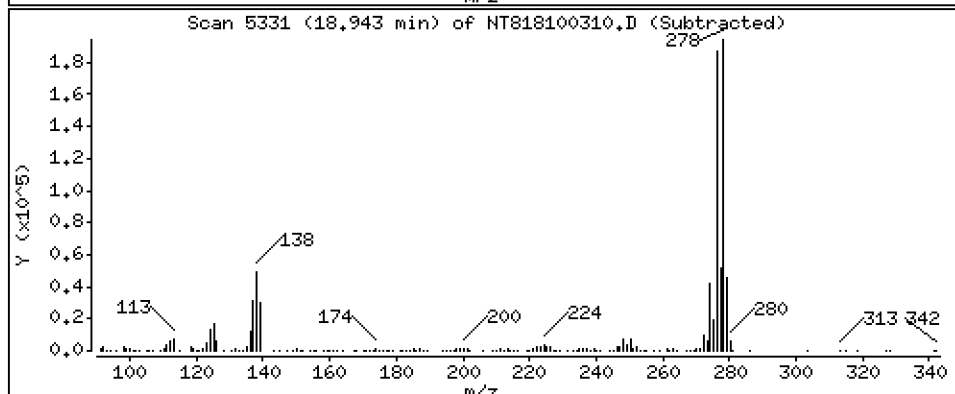
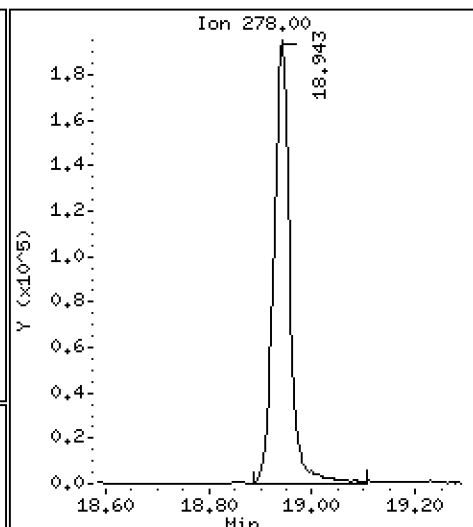
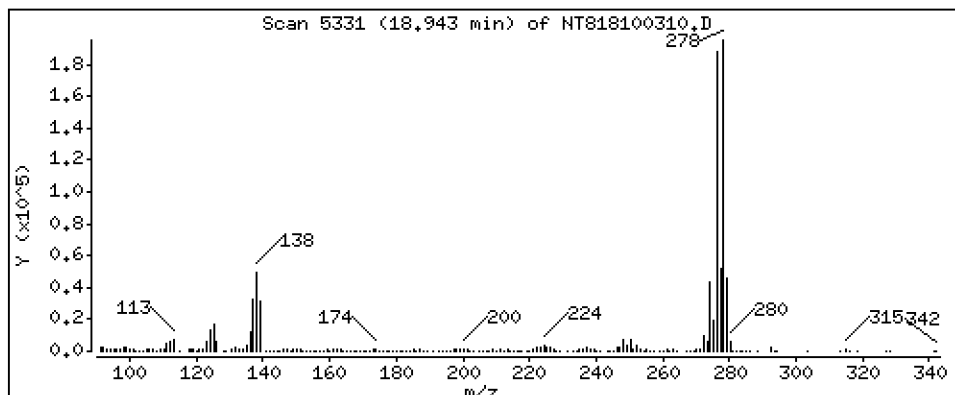
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 4,771 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

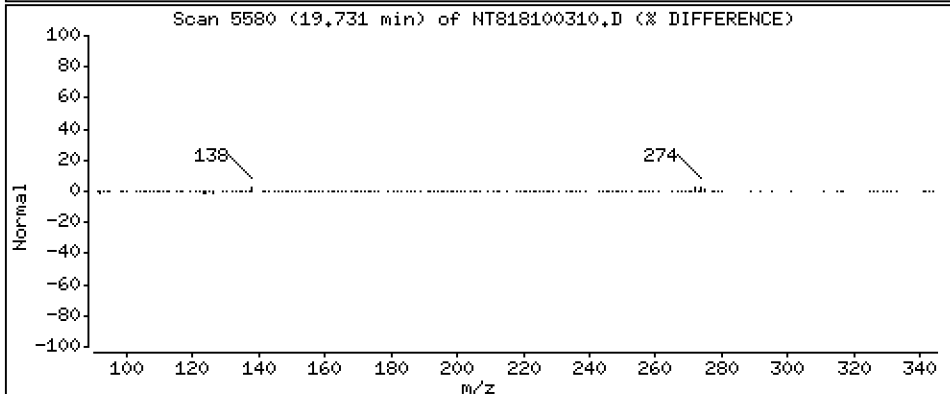
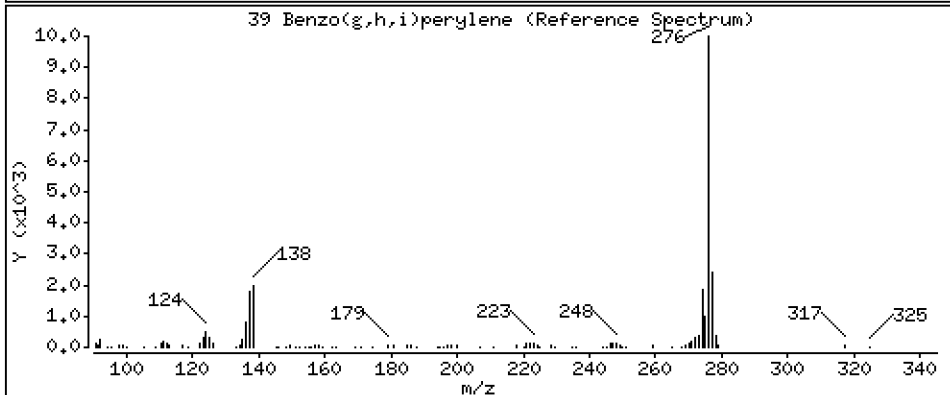
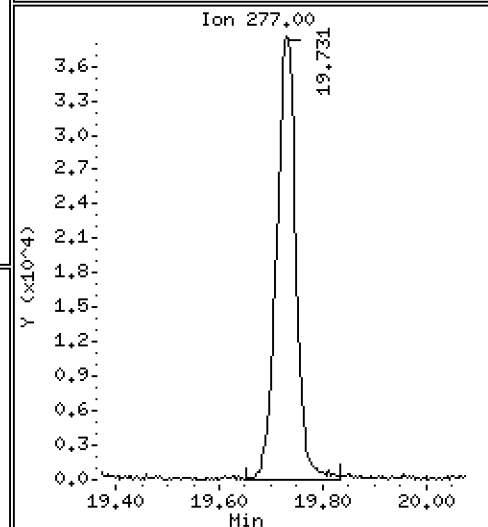
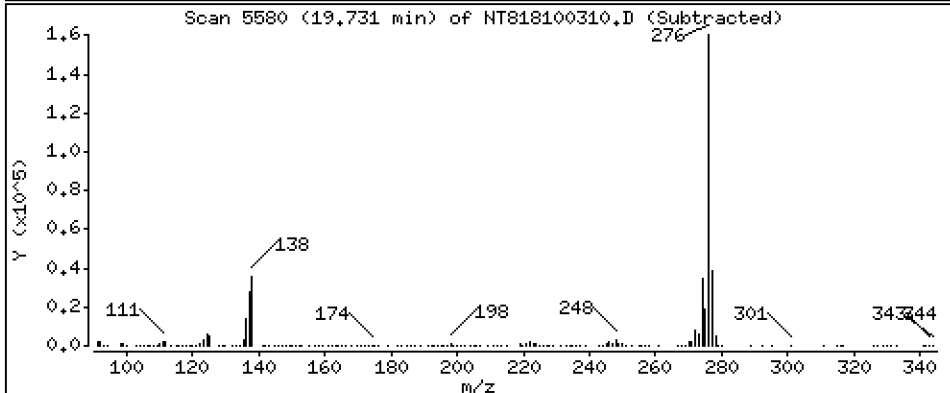
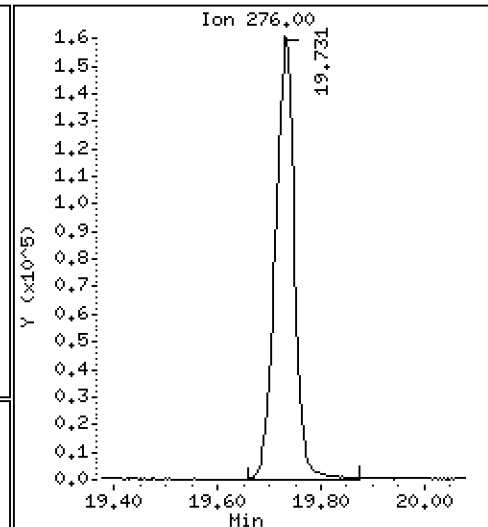
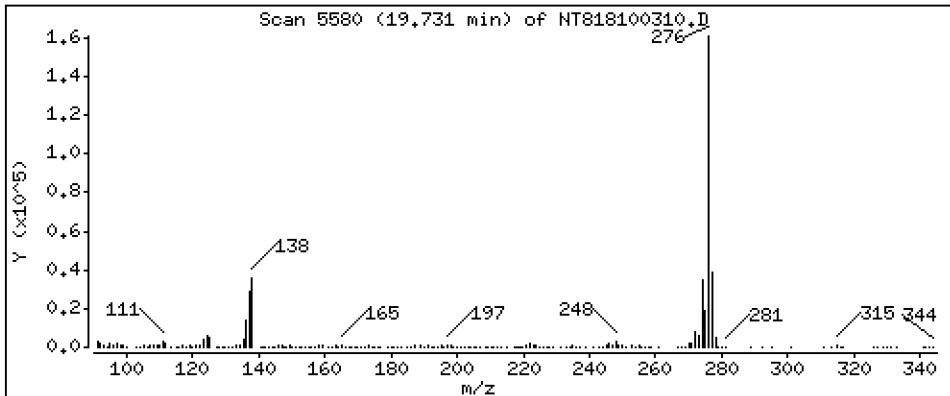
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 4,870 ug/mL



Date : 03-OCT-2018 15:08

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MS1.

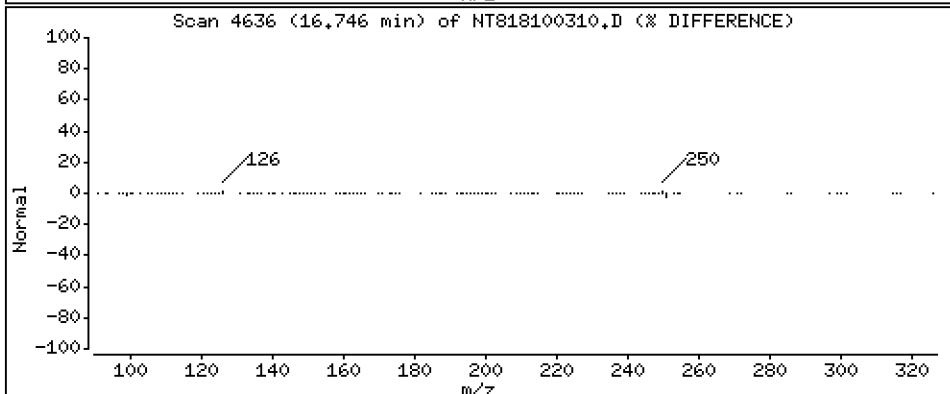
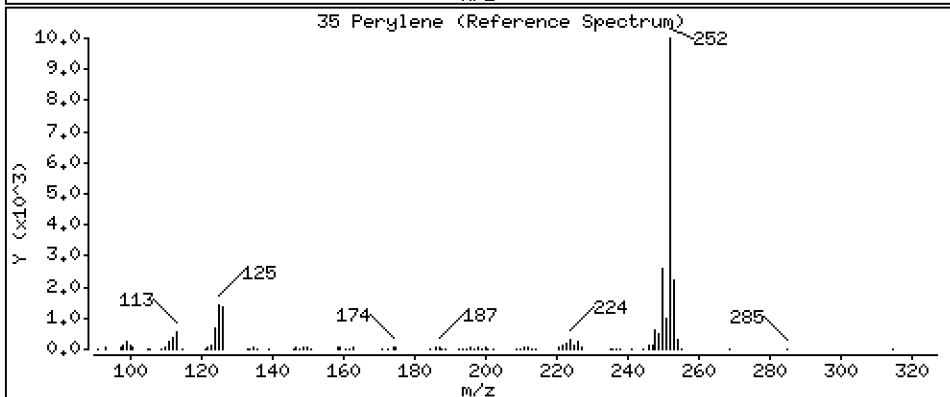
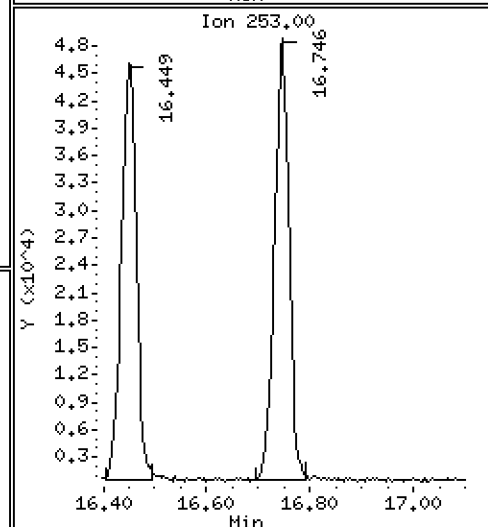
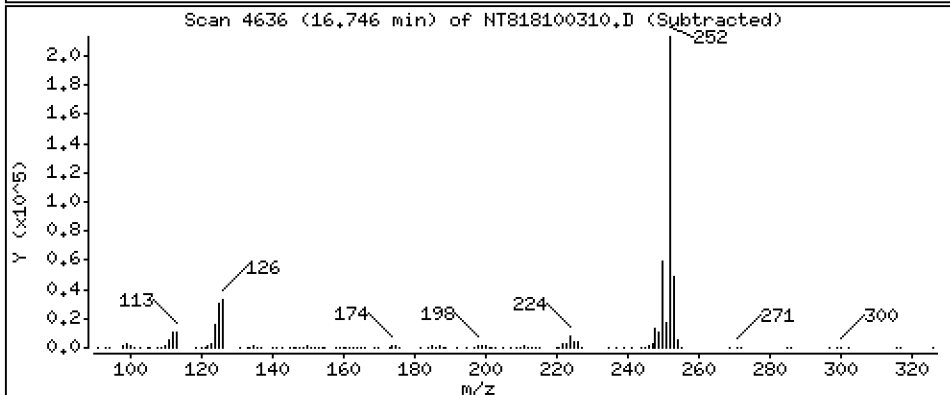
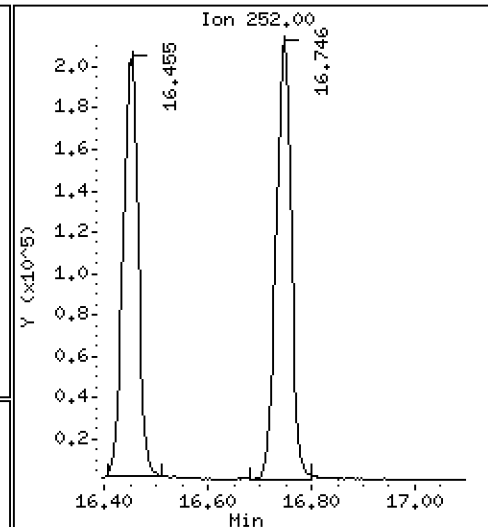
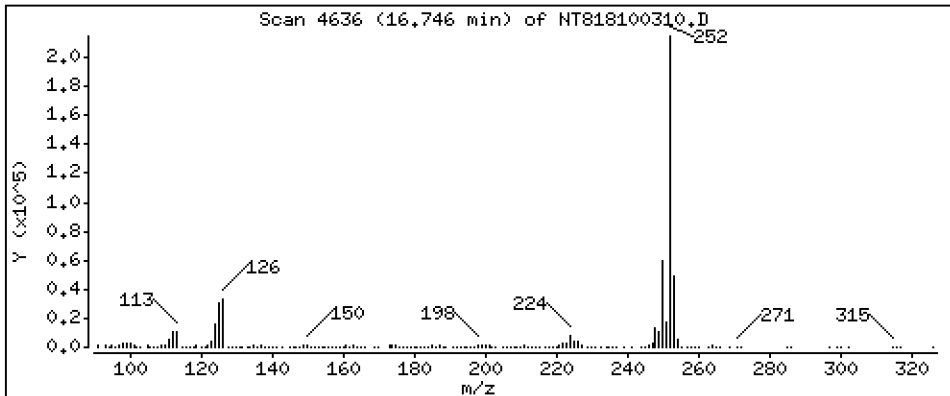
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 4,304 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100310.D
 Lab Smp Id: BGI0708-MS1
 Inj Date : 03-OCT-2018 15:08
 Operator : JZ Inst ID: nt8.i
 Smp Info : BGI0708-MS1,
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.306	4.319	(1.000)	163265	2.00000	
2 Naphthalene	128		4.335	4.347	(1.007)	317669	3.57004	3.570
\$ 3 2-Methylnaphthalene-d10	152		5.033	5.040	(1.169)	97053	1.68089	1.681
4 2-Methylnaphthalene	141		5.081	5.087	(1.180)	174914	3.50560	3.506
5 1-methylnaphthalene	141		5.274	5.280	(1.225)	178508	3.47489	3.475
9 Acenaphthylene	152		6.450	6.453	(0.983)	321252	3.59462	3.595
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	84258	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.007)	217524	3.61075	3.611
12 Dibenzofuran	168		6.760	6.763	(1.030)	301793	3.61627	3.616
14 Fluorene	166		7.228	7.231	(1.101)	254405	3.68064	3.681
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	168228	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	402317	4.43439	4.434
17 Anthracene	178		8.635	8.638	(1.008)	364500	4.10350	4.103
22 Fluoranthene	202		10.209	10.209	(1.192)	467085	4.42804	4.428
\$ 21 Fluoranthene-d10	212		10.175	10.178	(1.188)	224911	2.11697	2.117
23 Pyrene	202		10.652	10.655	(0.819)	492980	4.60298	4.603
24 Benzo(a)anthracene	228		12.894	12.897	(0.991)	461369	4.45504	4.455
* 25 Chrysene-d12	240		13.011	13.014	(1.000)	179997	2.00000	
27 Chrysene	228		13.077	13.080	(1.005)	444602	4.54225	4.542
28 Benzo(b)fluoranthene	252		15.455	15.458	(0.927)	461678	4.20430	4.204
29 Benzo(k)fluoranthene	252		15.515	15.515	(0.930)	460866	4.23879	4.239
30 Benzo(j)fluoranthene	252		15.591	15.591	(0.935)	394139	3.82435	3.824
31 Total Benzofluoranthenes	252		15.515	15.591	(0.930)	1301464	12.2112	12.21 (M)
32 Benzo(a)pyrene	252		16.454	16.451	(0.987)	422913	4.26936	4.269
* 33 Perylene-d12	264		16.676	16.672	(1.000)	176092	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.940	18.943	(1.136)	486206	4.65924	4.659
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.857	18.861	(1.131)	209713	2.65475	2.655
38 Dibenzo(a,h)anthracene	278		18.943	18.936	(1.136)	419341	4.77141	4.771
39 Benzo(g,h,i)perylene	276		19.730	19.727	(1.183)	417210	4.86971	4.870
35 Perylene	252		16.745	16.745	(1.004)	439795	4.30378	4.304

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100310.D Calibration Time: 11:20
 Lab Smp Id: BGI0708-MS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	163265	23.80
10 Acenaphthene-d10	72272	36136	144544	84258	16.58
15 Phenanthrene-d10	156058	78029	312116	168228	7.80
25 Chrysene-d12	174389	87195	348778	179997	3.22
33 Perylene-d12	150701	75351	301402	176092	16.85

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.29
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.04
25 Chrysene-d12	13.01	12.51	13.51	13.01	-0.02
33 Perylene-d12	16.67	16.17	17.17	16.68	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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100310.D

Lab ID: BGI0708-MS1
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 15:08

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
-----	-----	-----	-------	----------

NONE

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

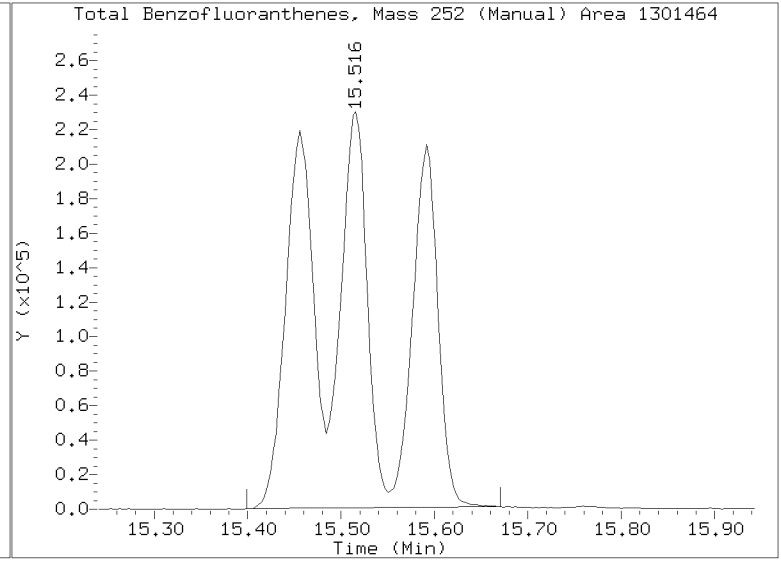
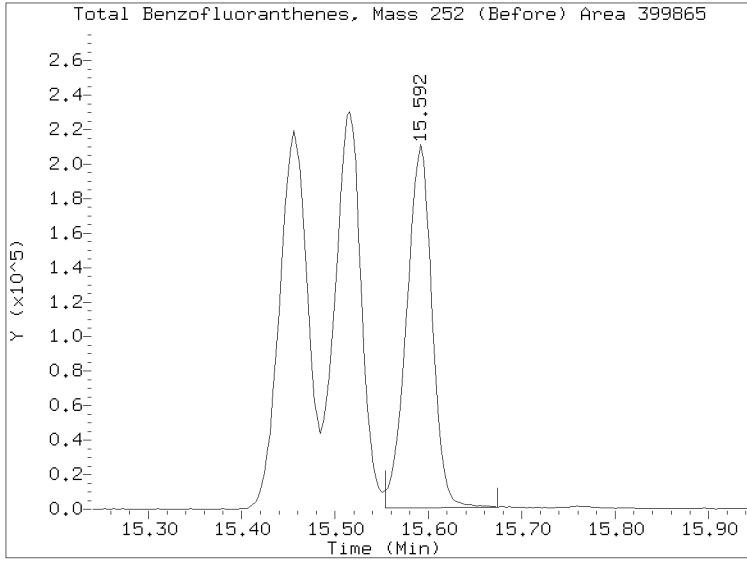
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100310.D

Injection Date: 03-OCT-2018 15:08

Lab ID: BGI0708-MS1 Client ID:

Report Date: 10/03/2018 15:32



Data File: \\target\share\chem3\nt8.1\20181003.B\NT818100311.D

Date: 03-OCT-2018 15:35

Client ID:

Sample Info: BG10708-HSD1,

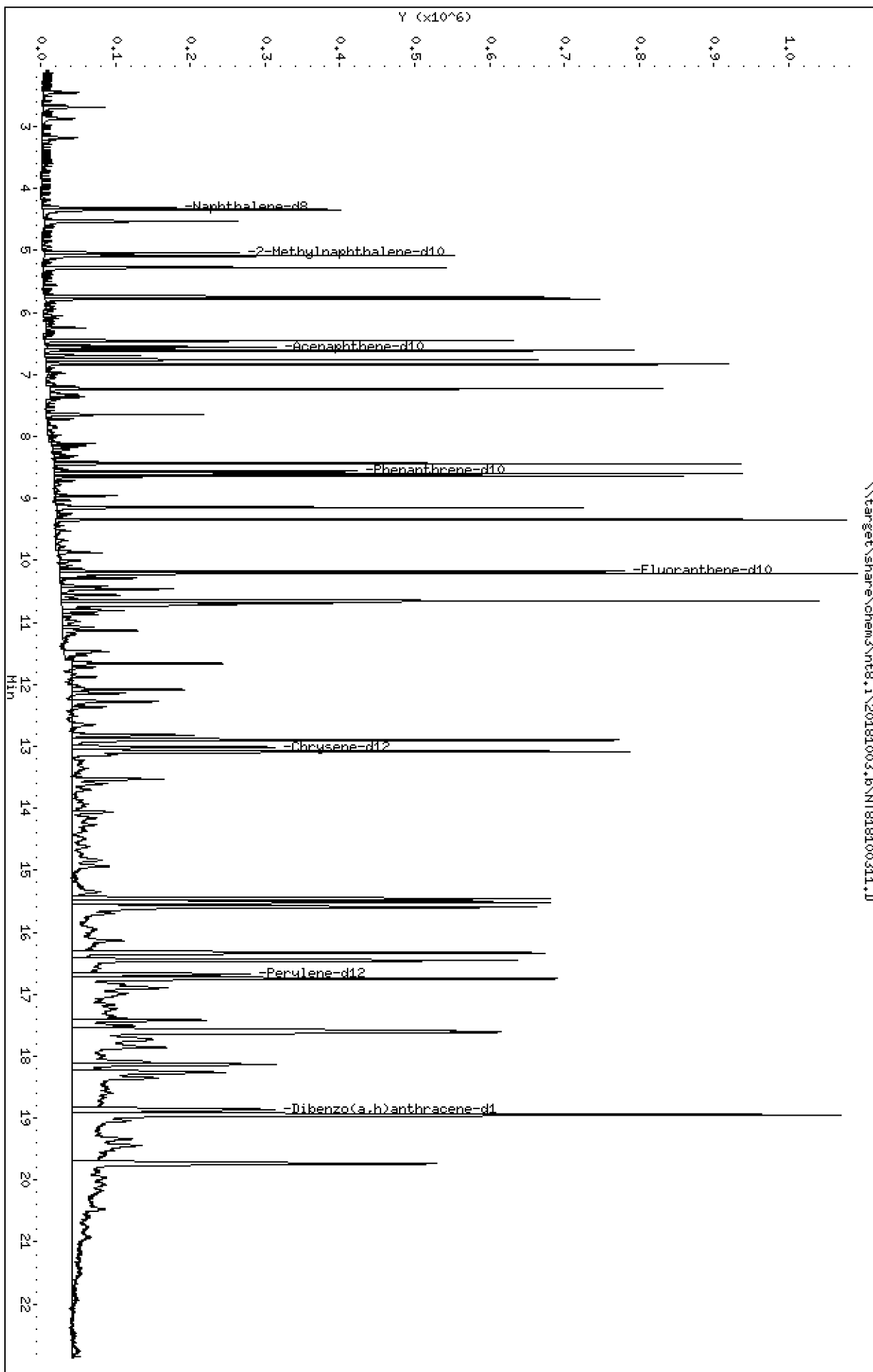
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

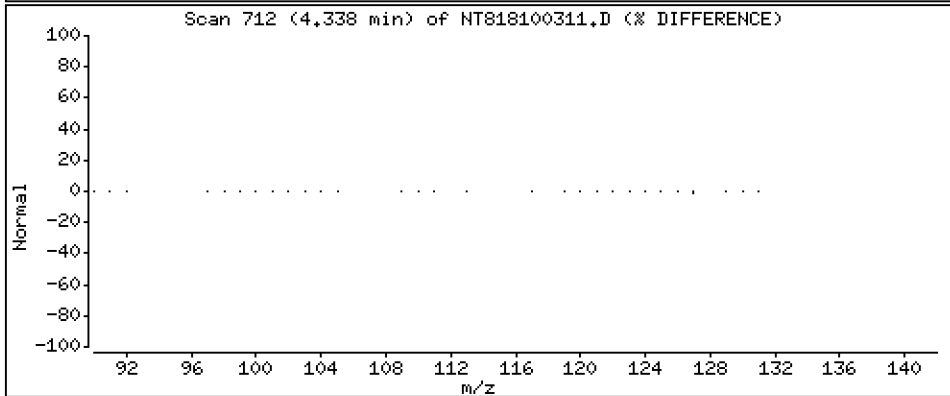
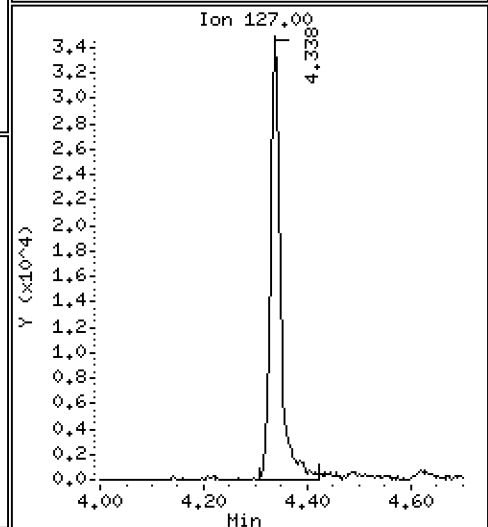
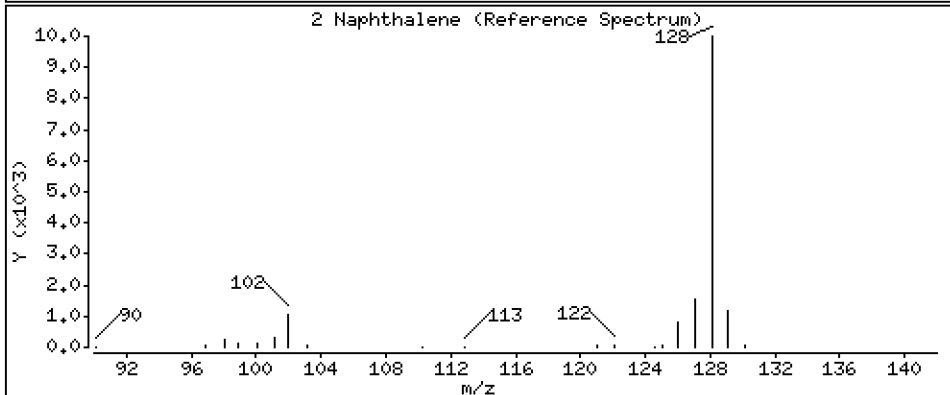
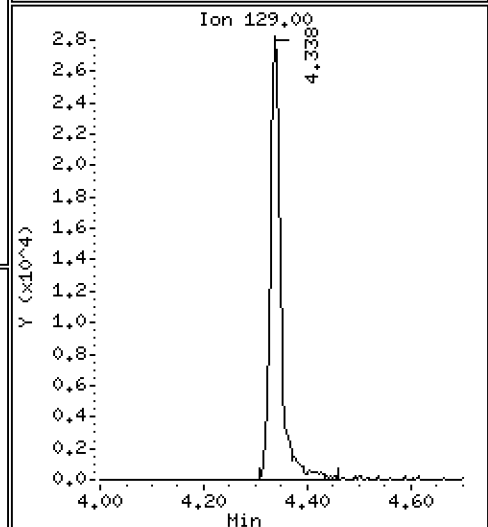
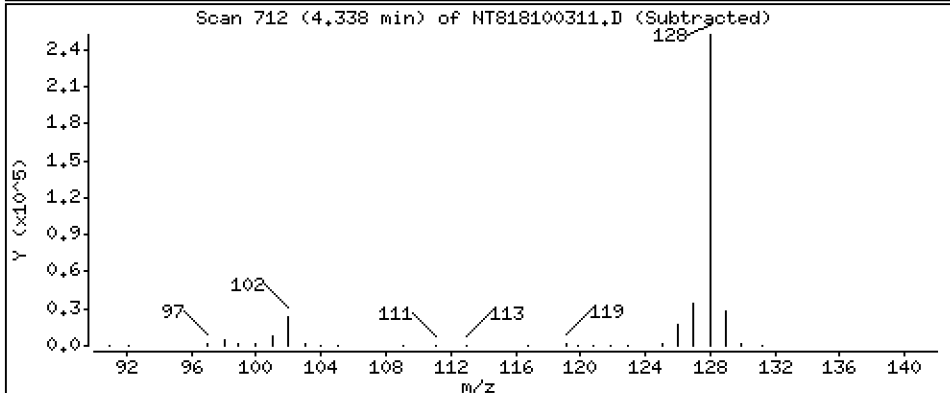
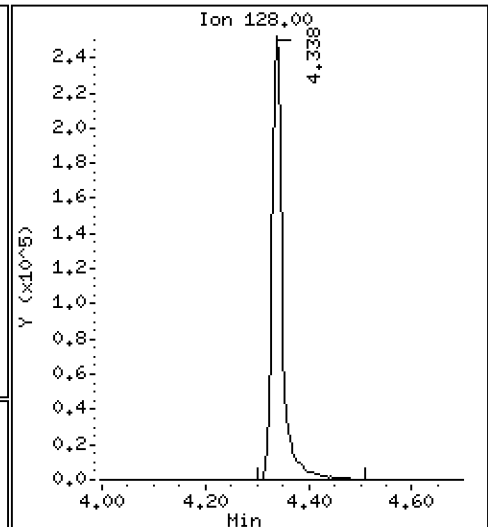
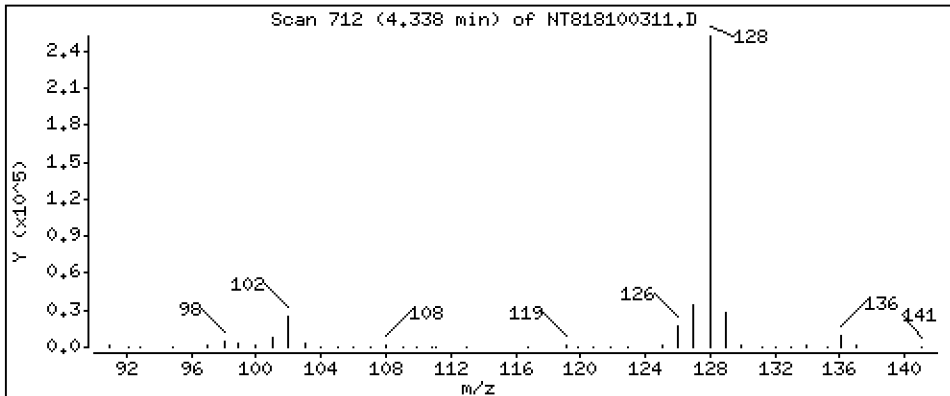
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

2 Naphthalene

Concentration: 3,896 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

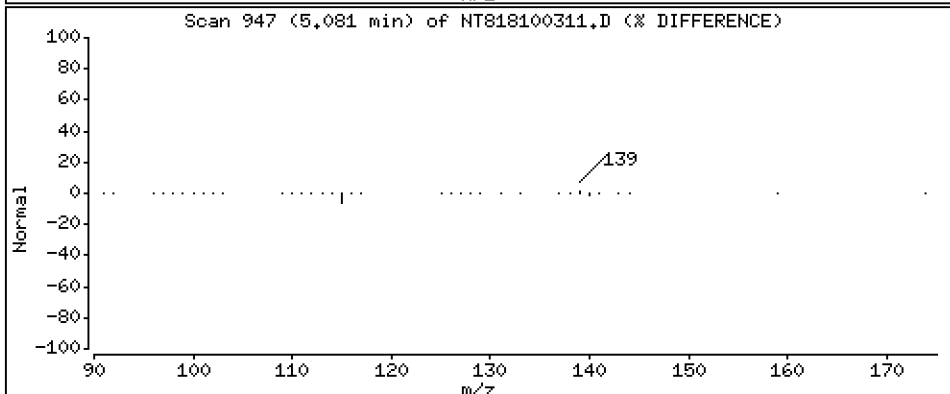
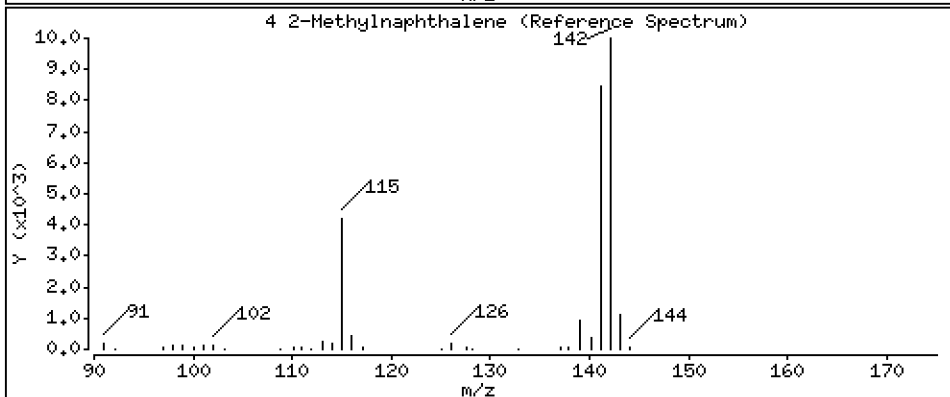
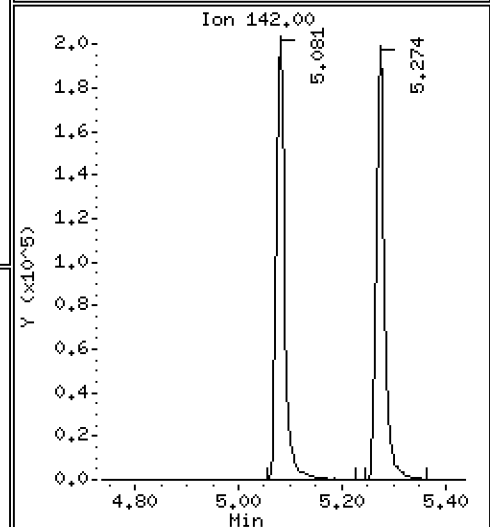
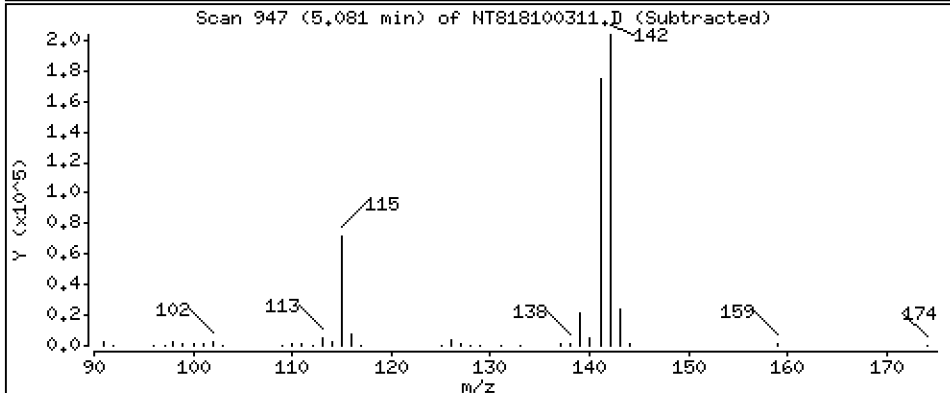
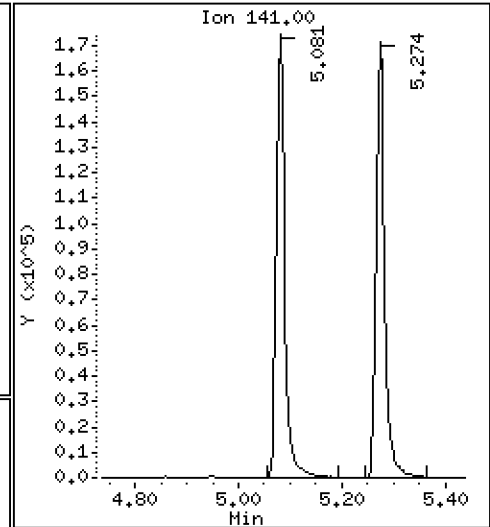
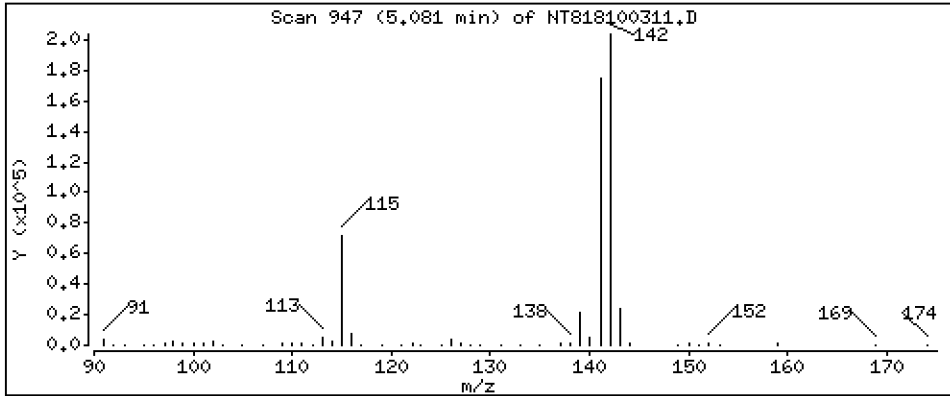
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4-Methylnaphthalene

Concentration: 3.791 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

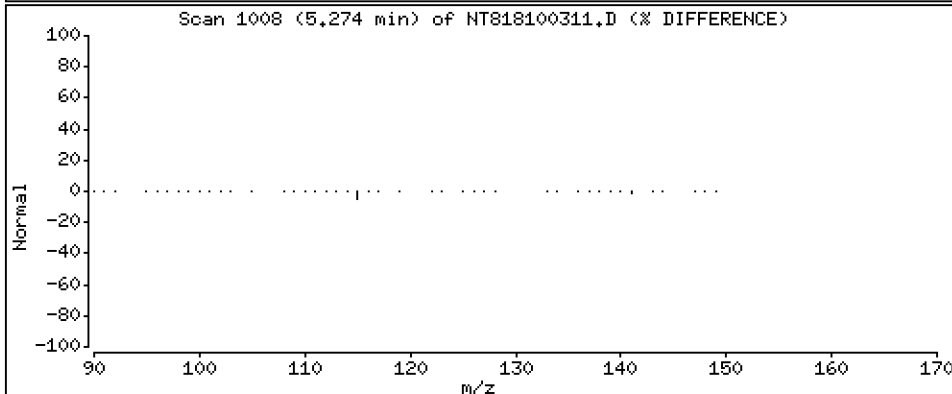
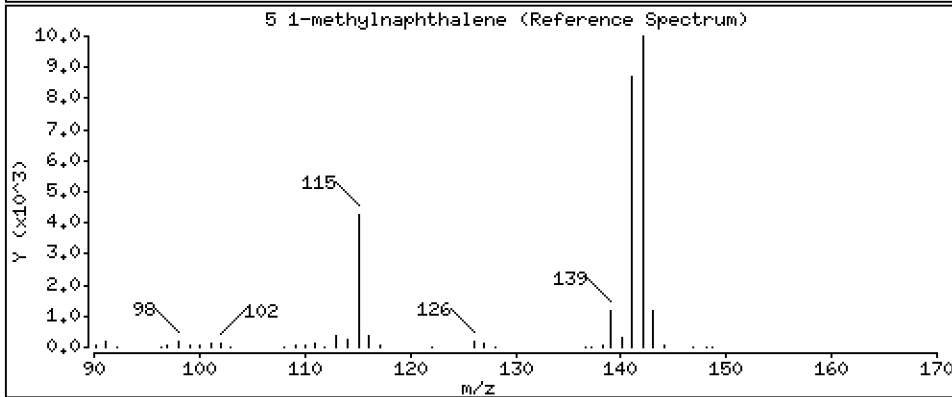
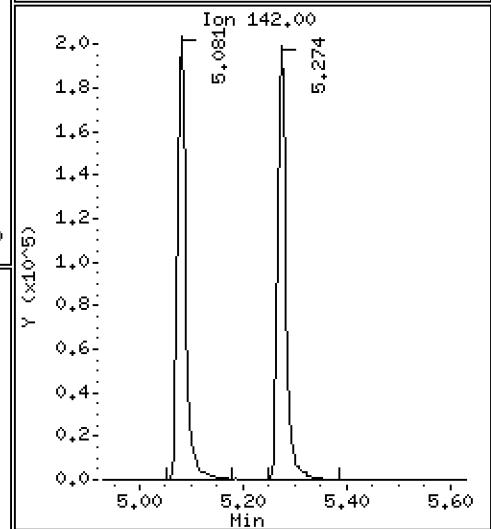
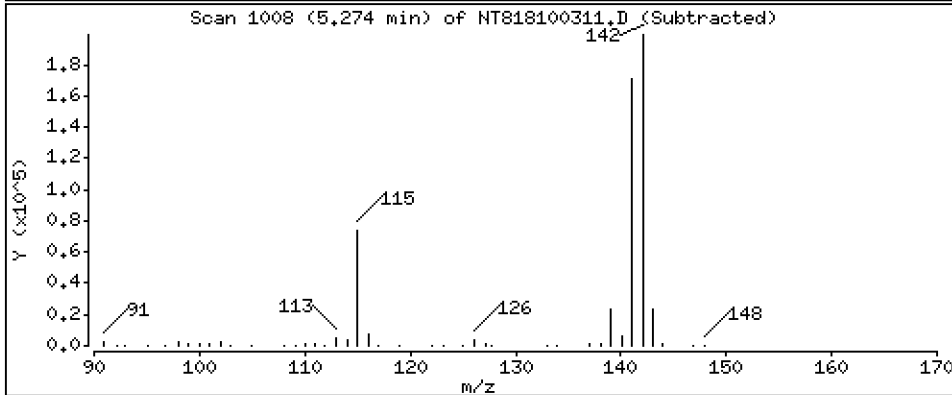
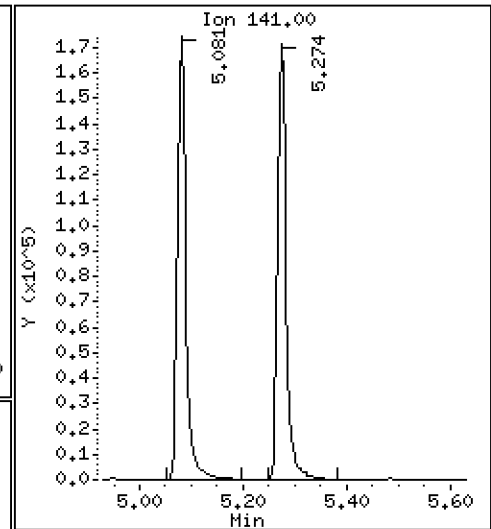
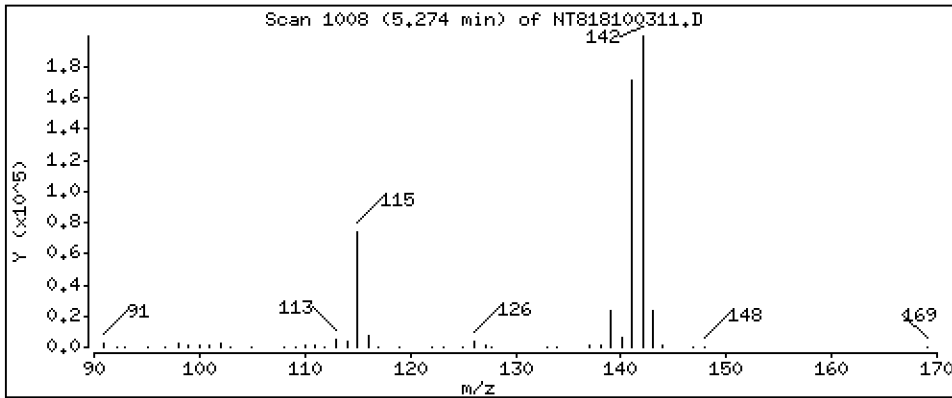
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

5 1-methylnaphthalene

Concentration: 3.729 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

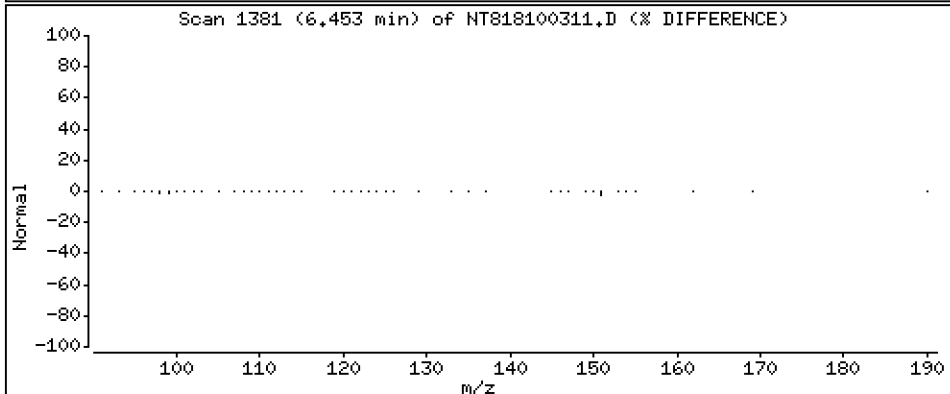
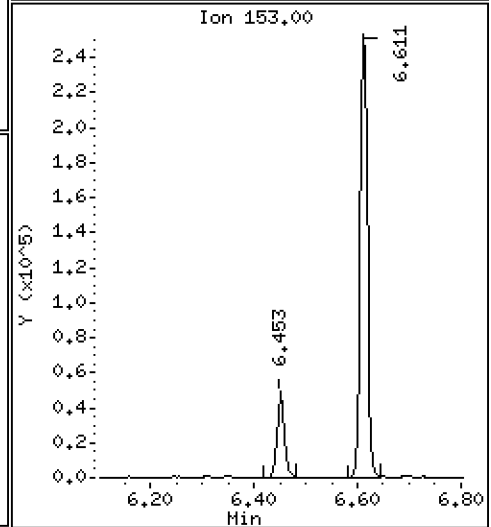
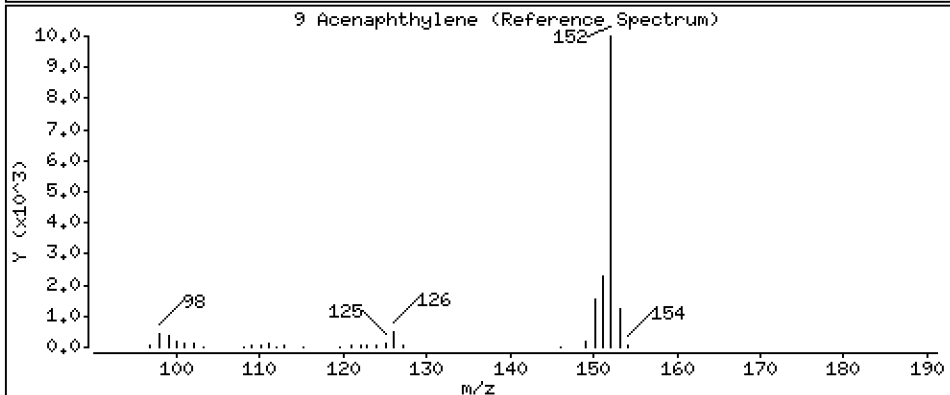
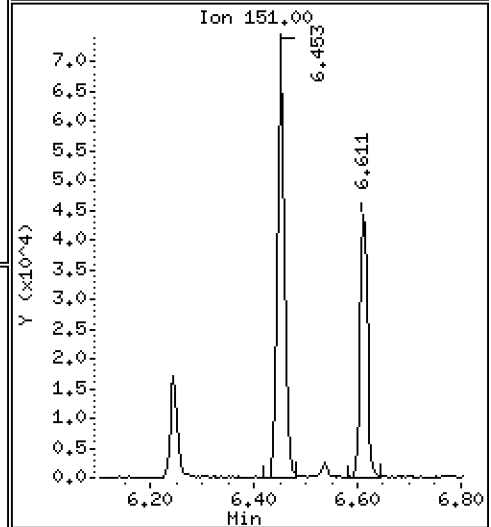
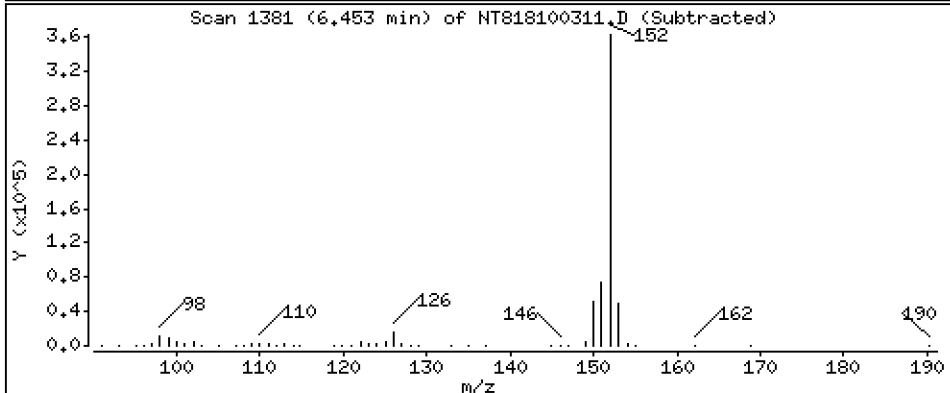
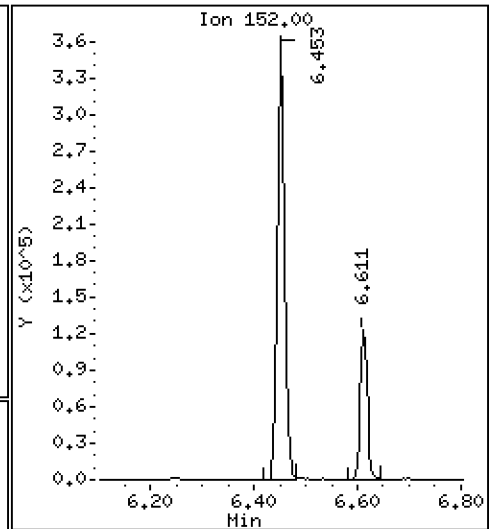
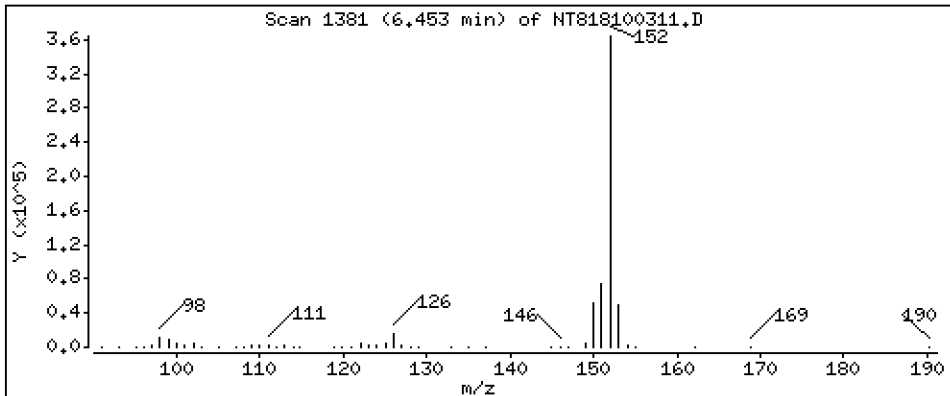
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

9 Acenaphthylene

Concentration: 3,958 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

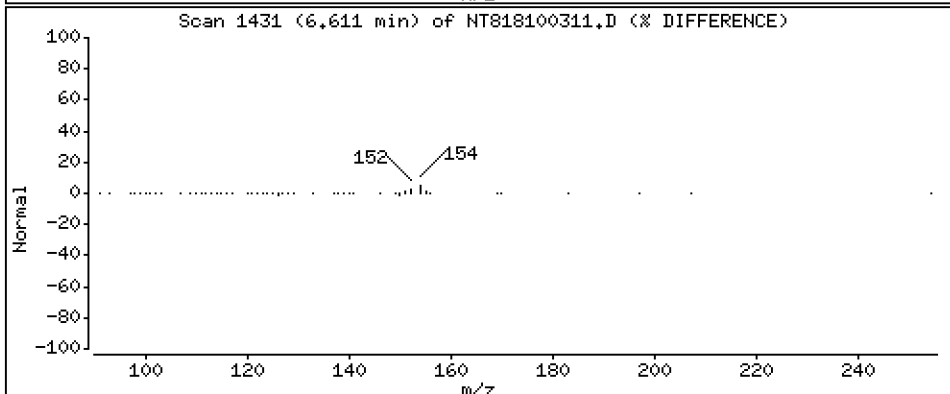
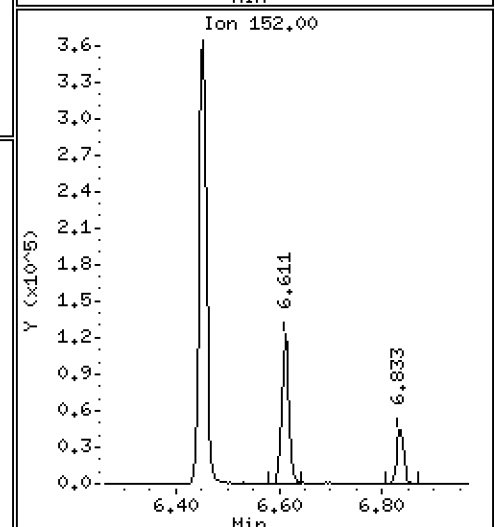
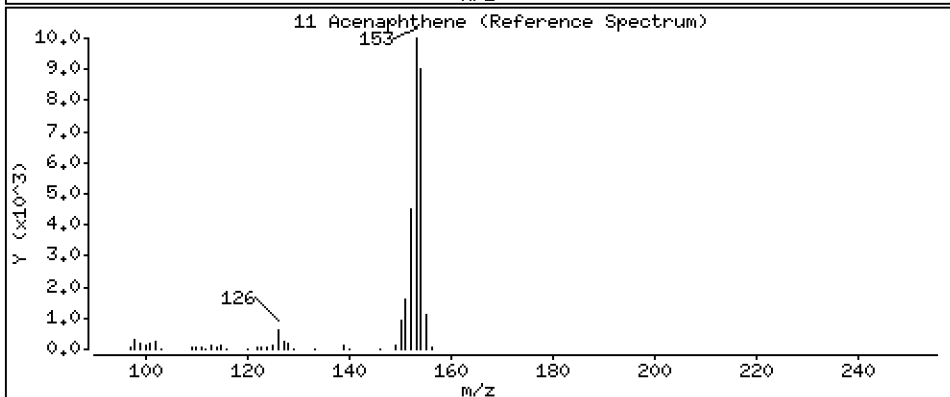
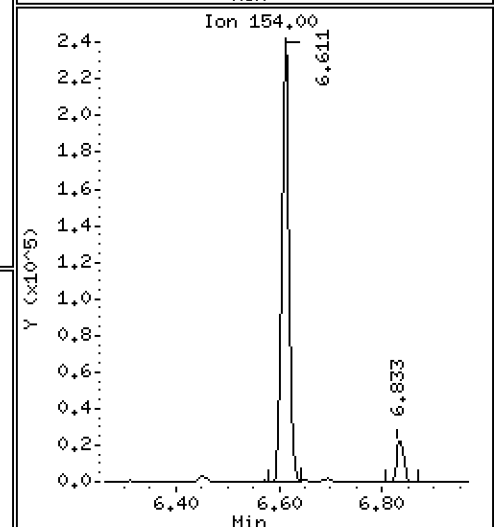
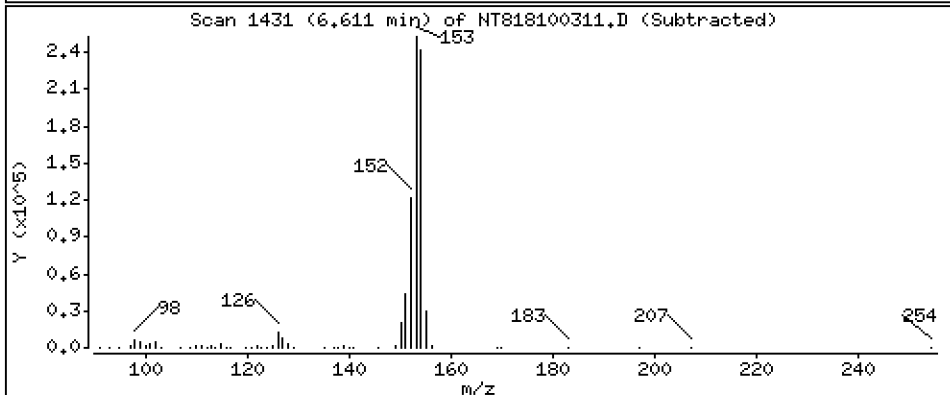
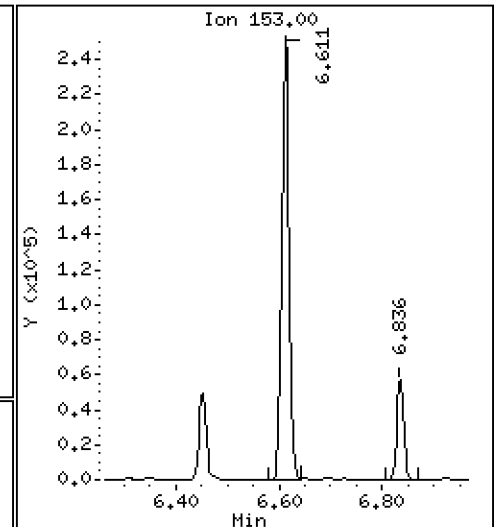
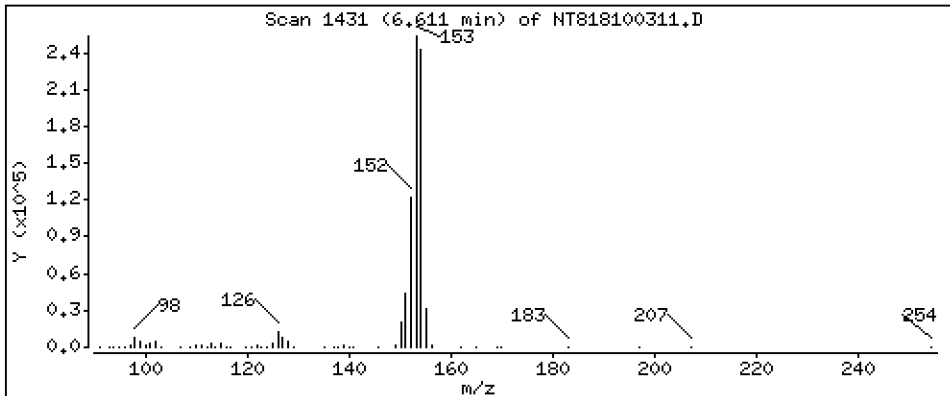
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 3,997 ug/mL

11 Acenaphthene



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

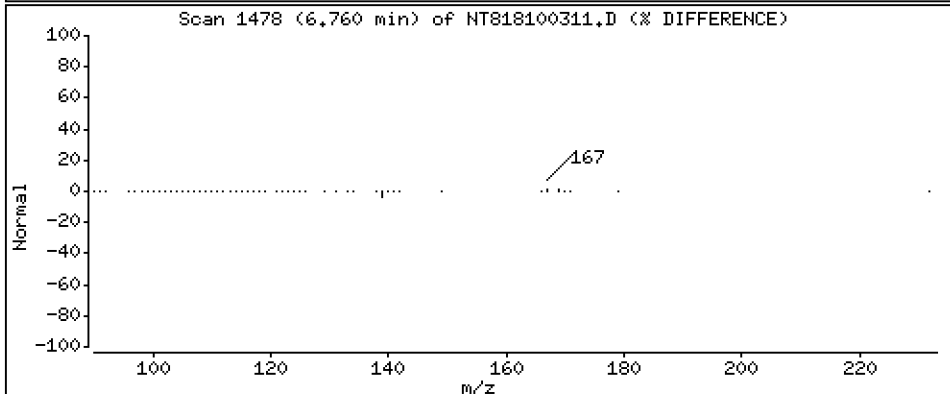
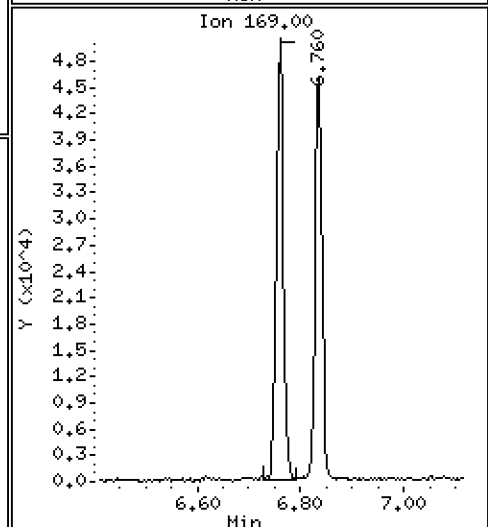
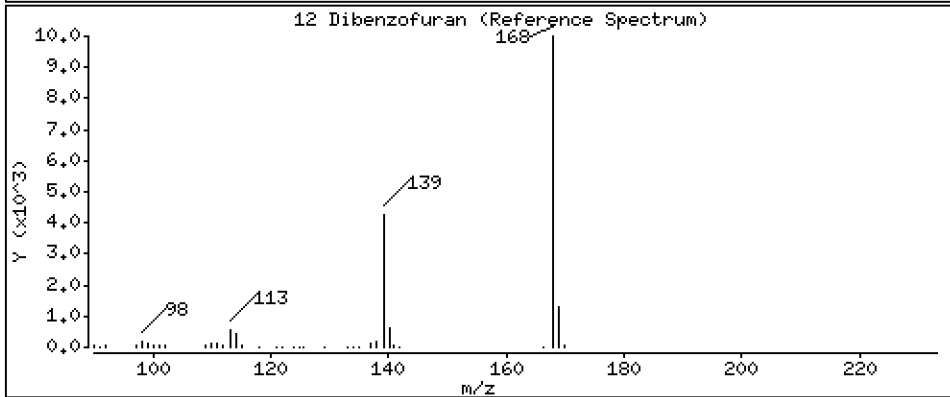
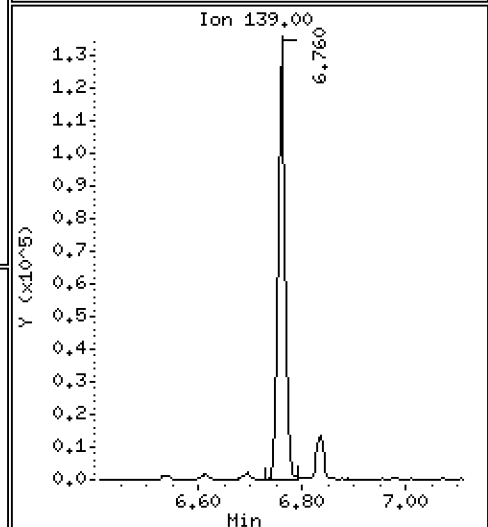
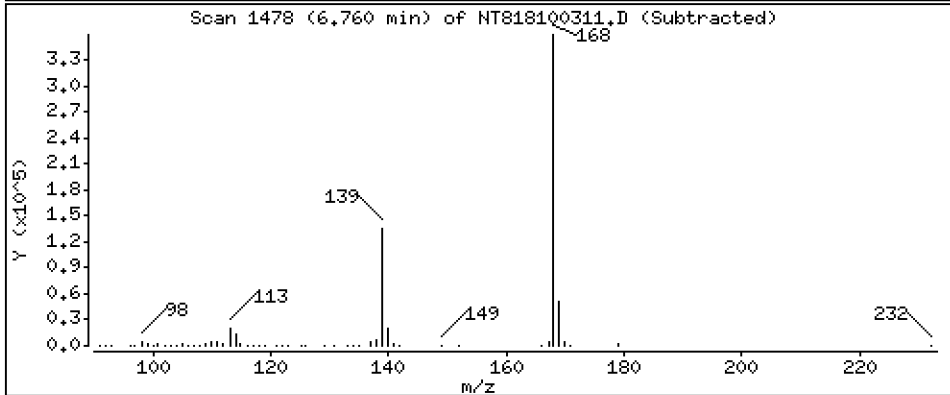
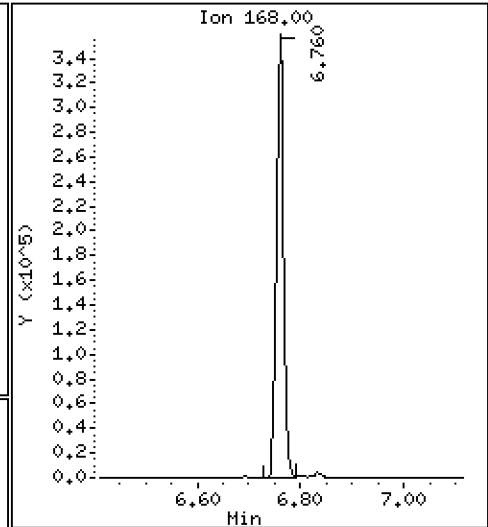
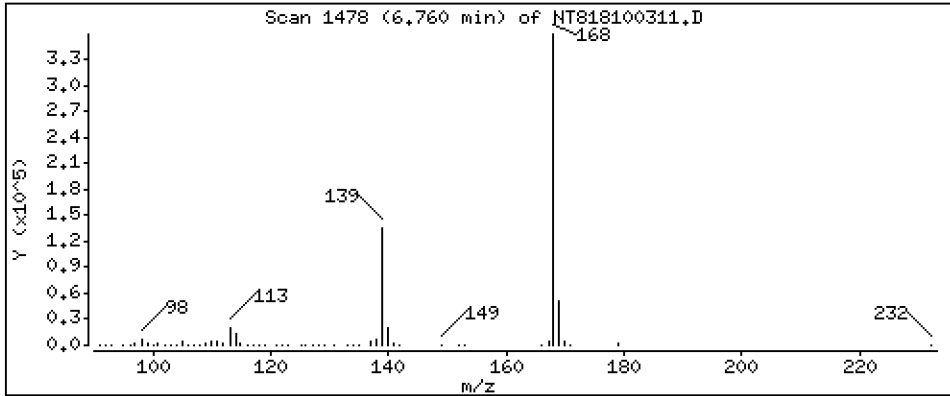
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

12 Dibenzofuran

Concentration: 4,033 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

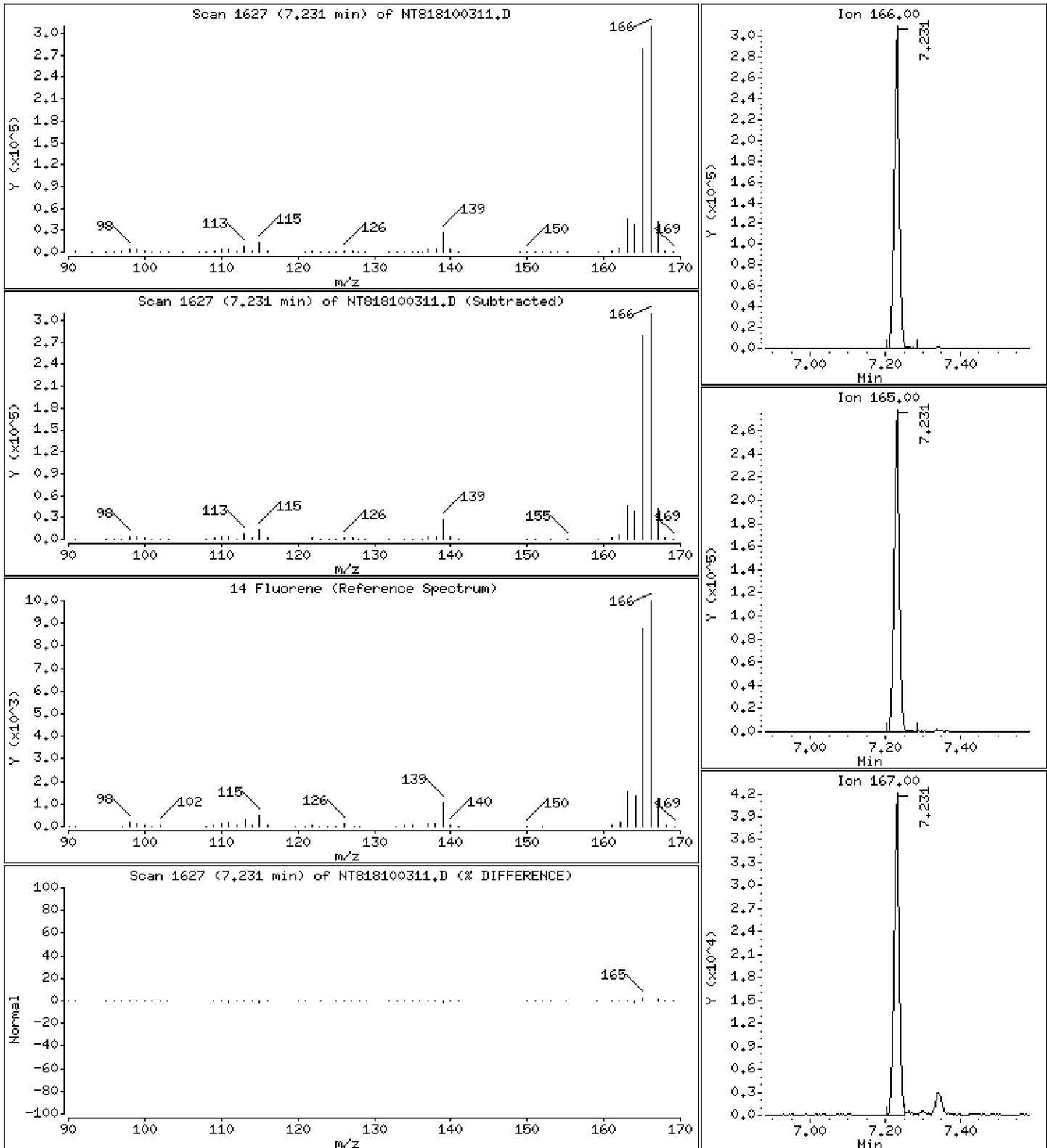
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

14 Fluorene

Concentration: 4,139 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

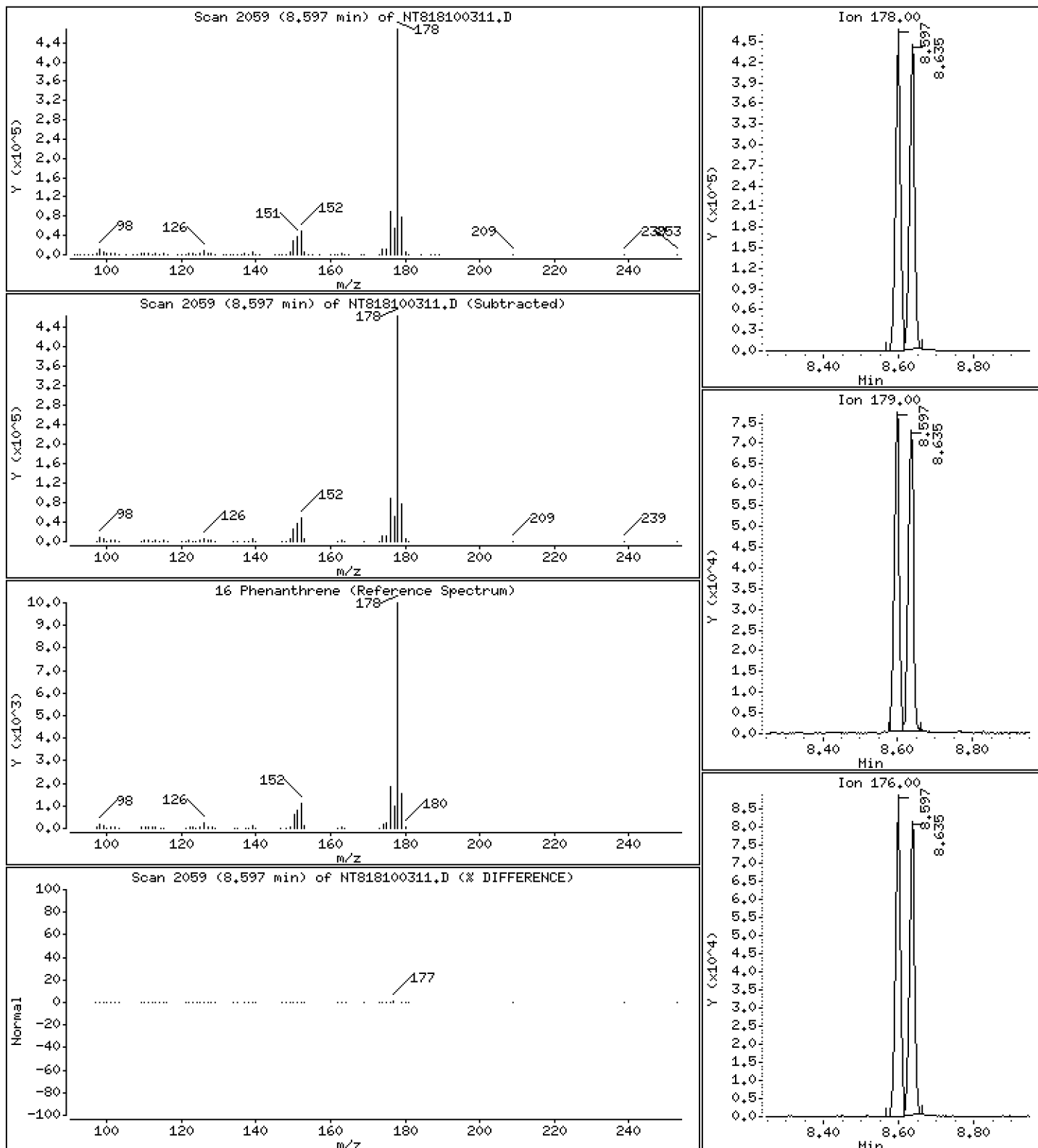
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

16 Phenanthrene

Concentration: 4,865 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

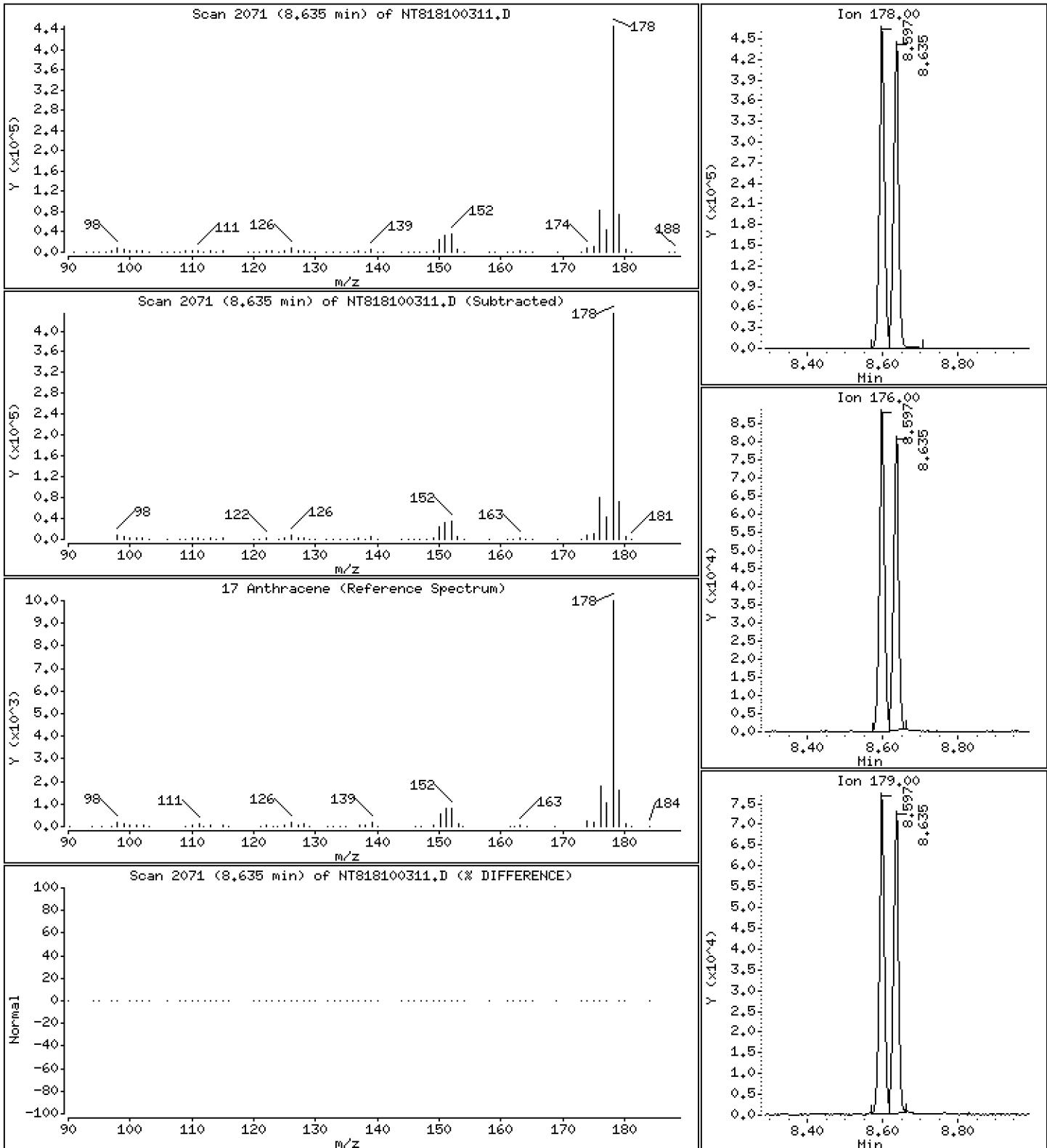
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

17 Anthracene

Concentration: 4,764 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

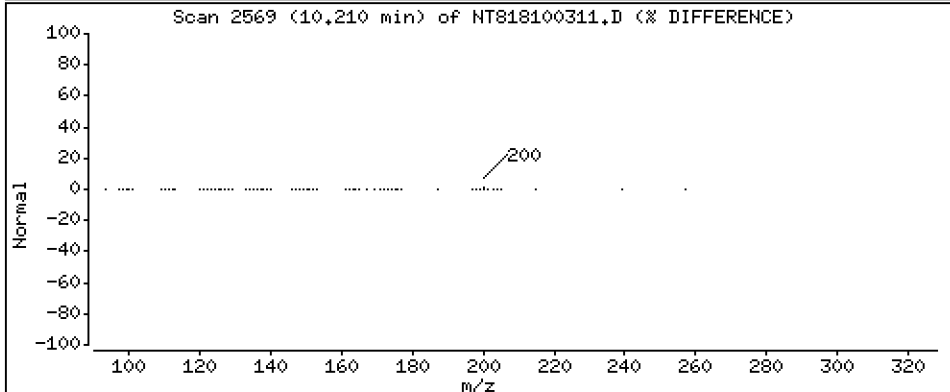
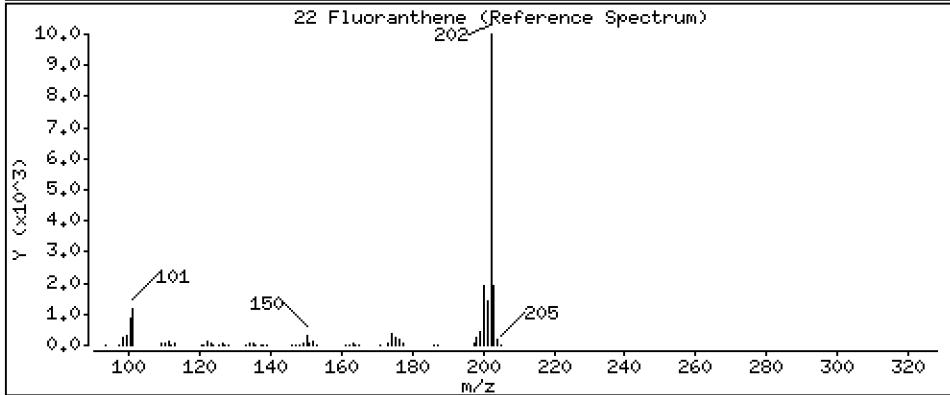
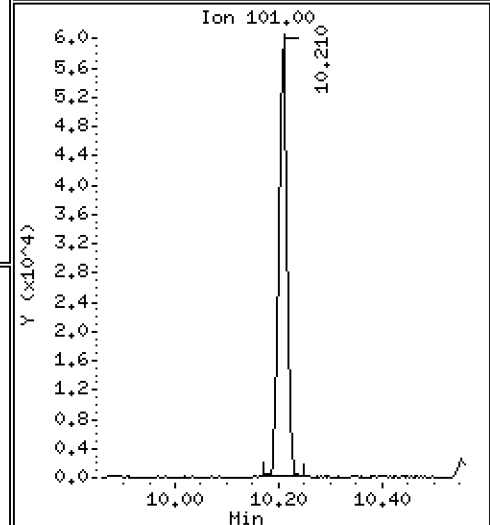
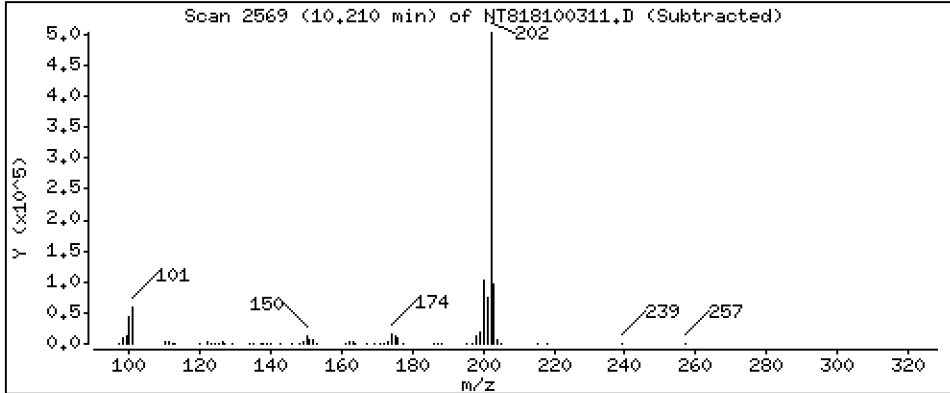
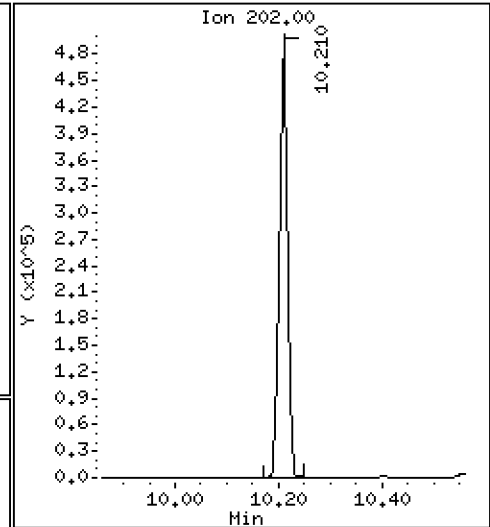
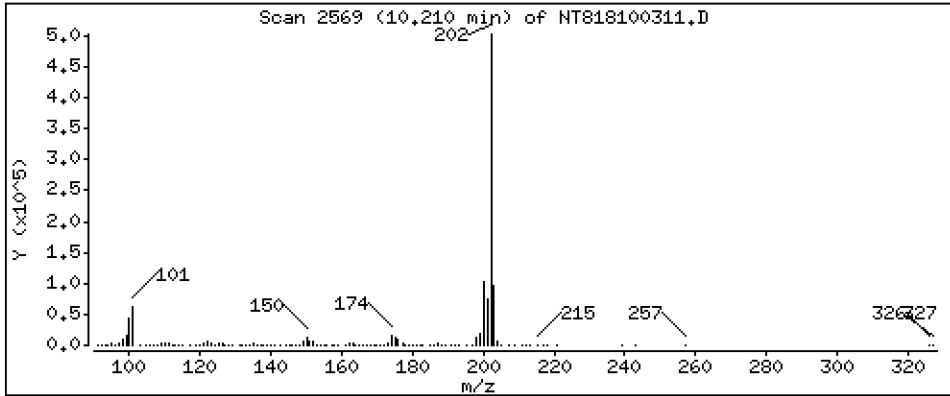
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 5,139 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

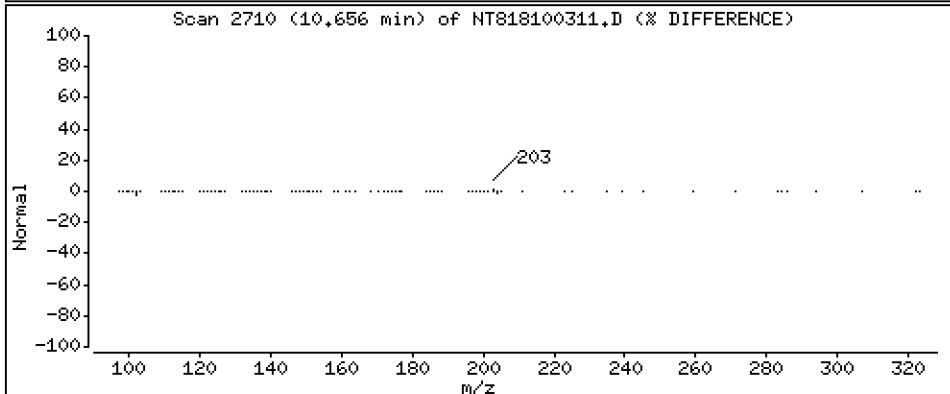
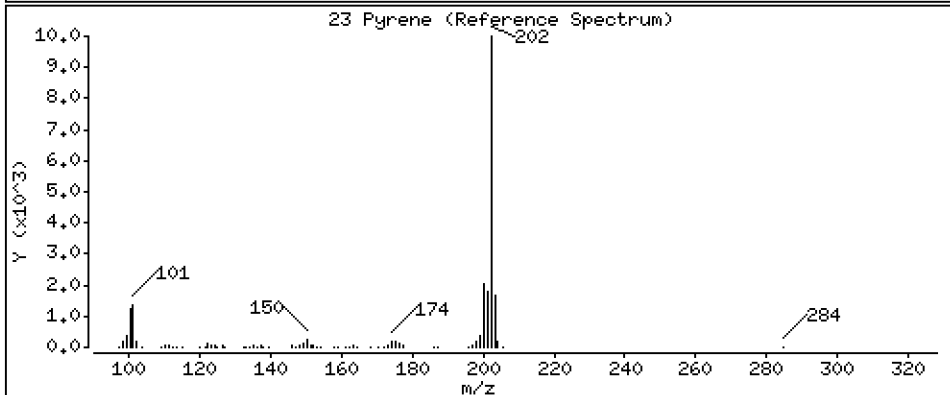
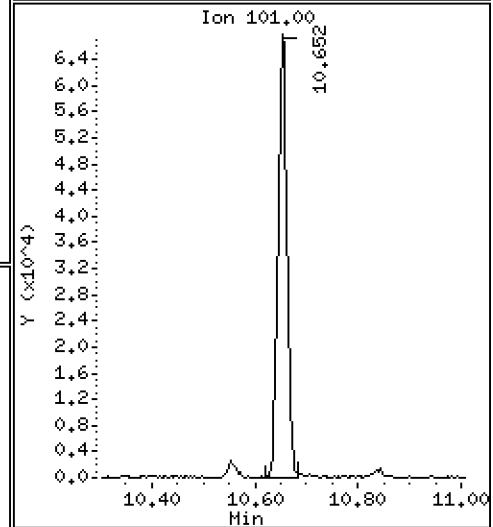
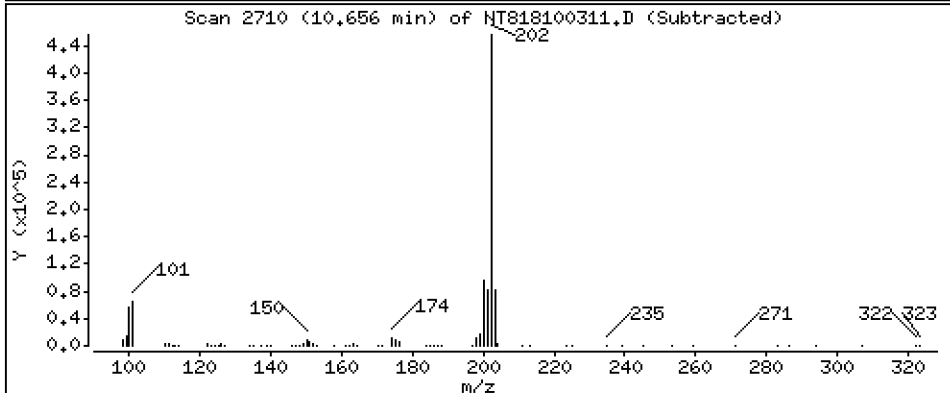
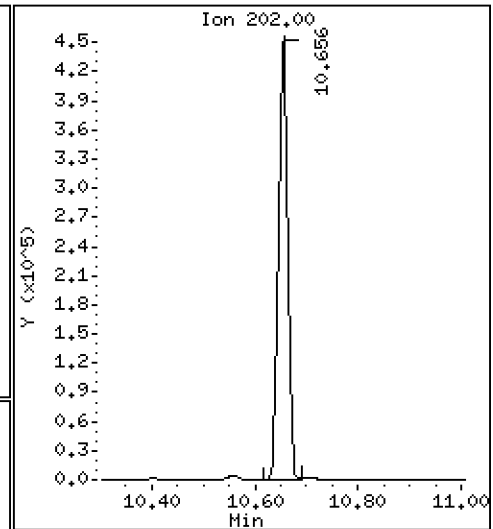
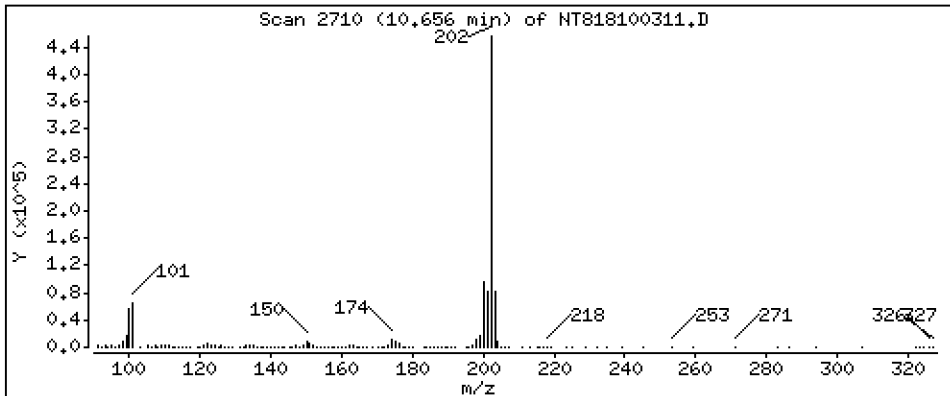
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 5,323 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

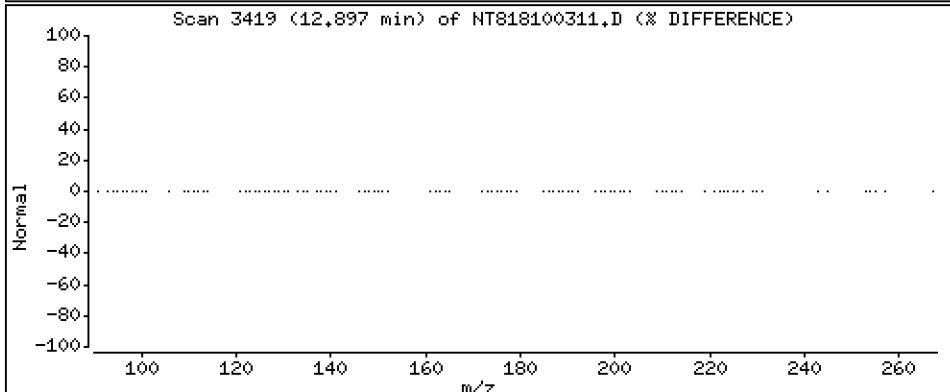
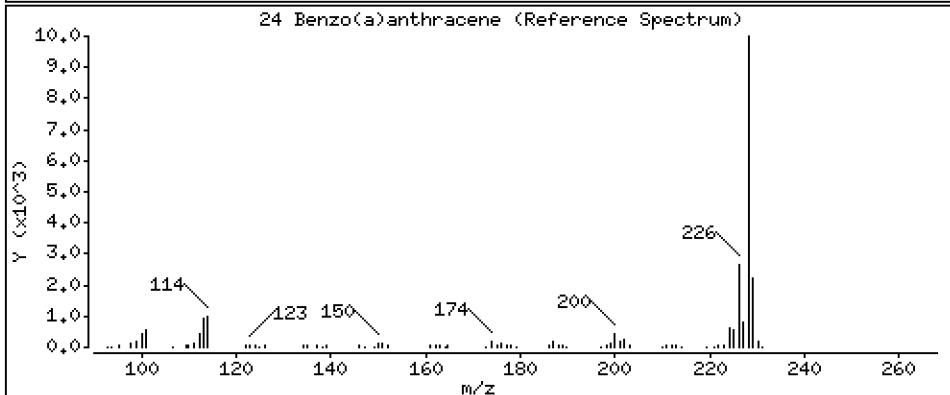
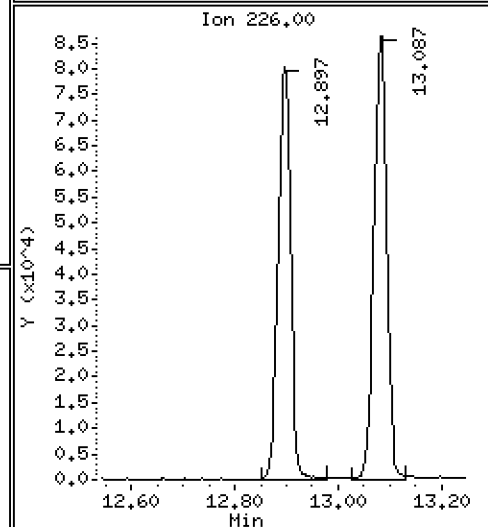
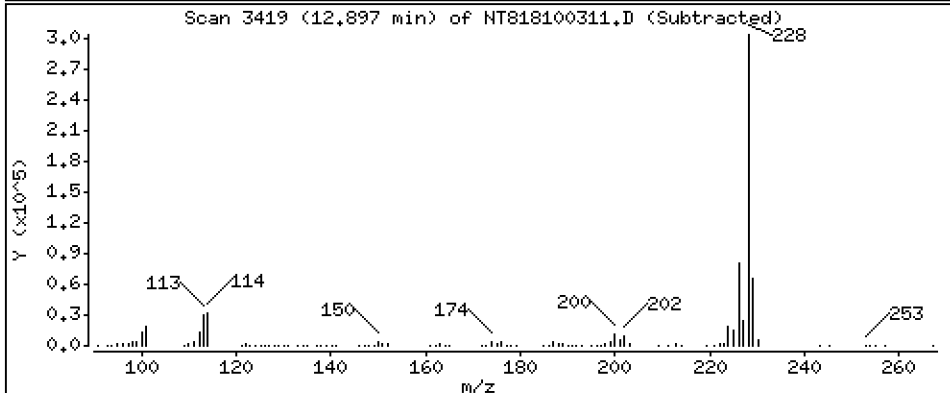
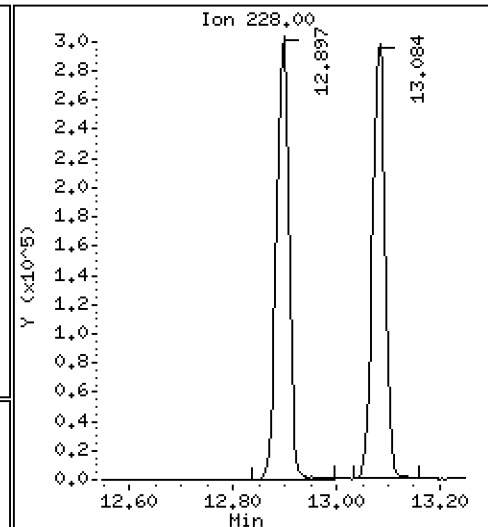
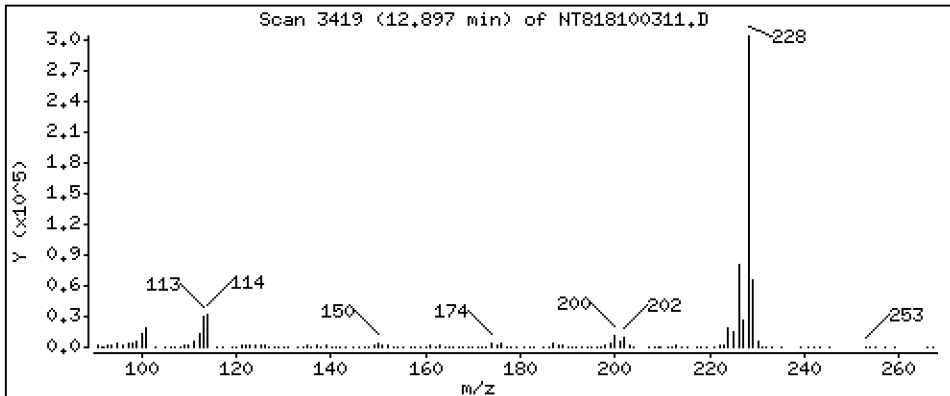
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 5,015 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

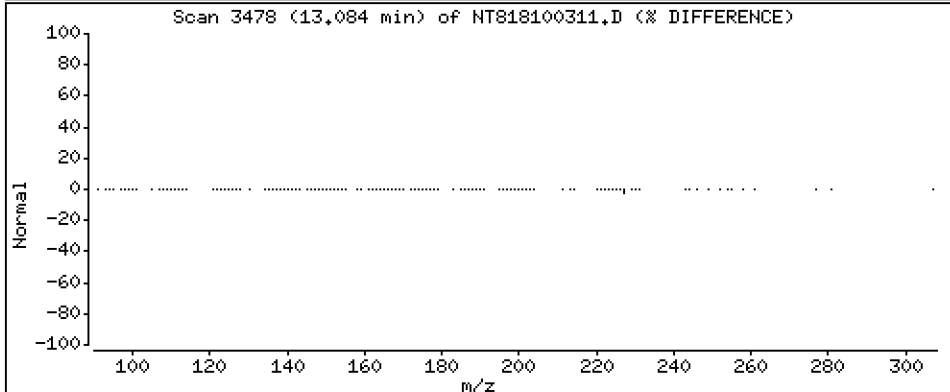
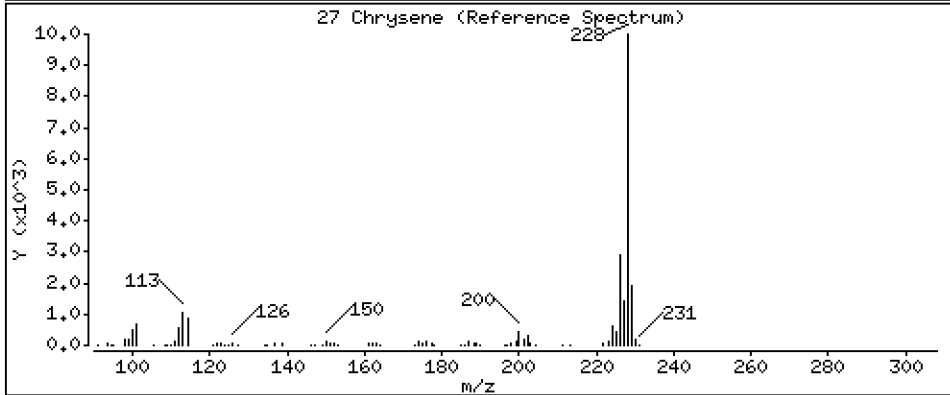
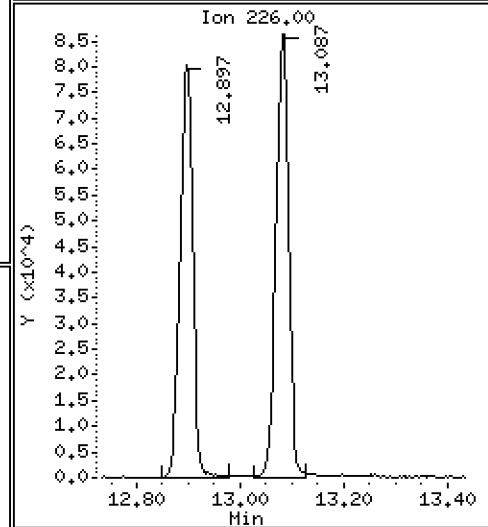
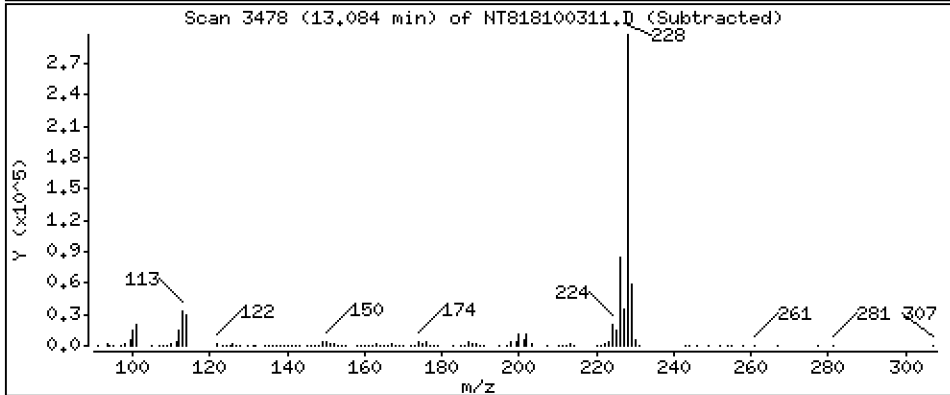
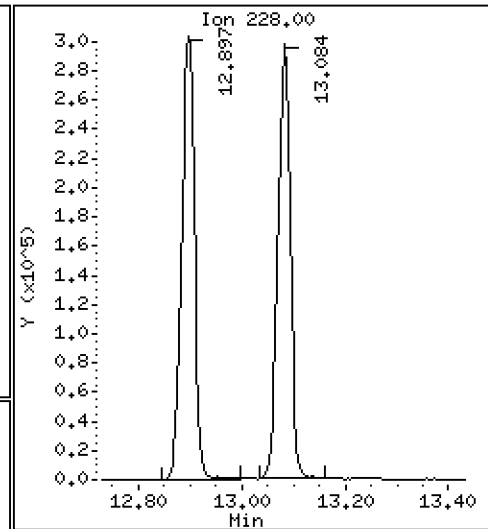
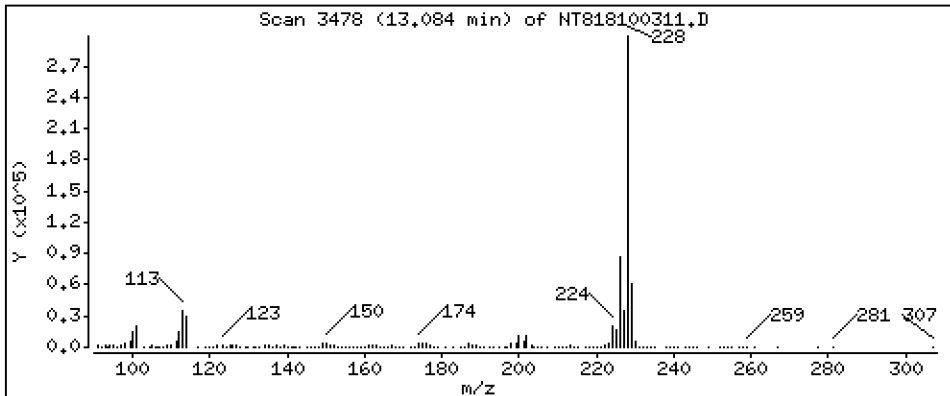
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 5,158 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

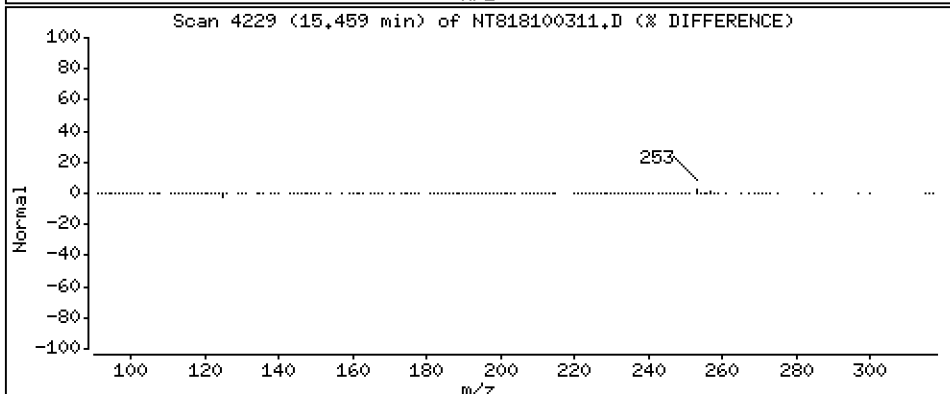
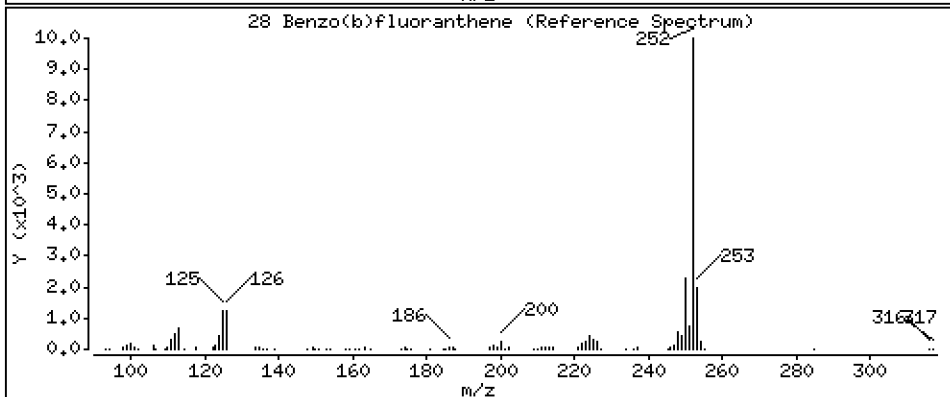
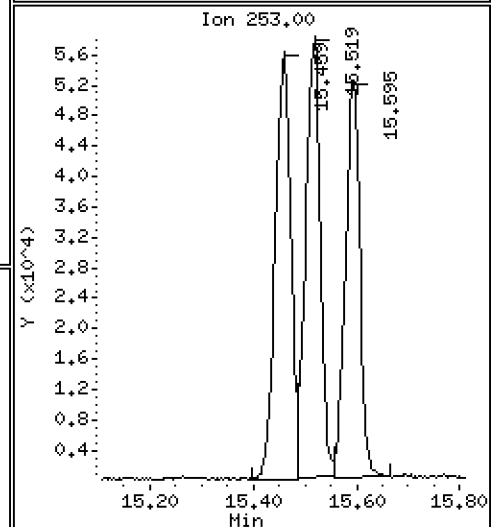
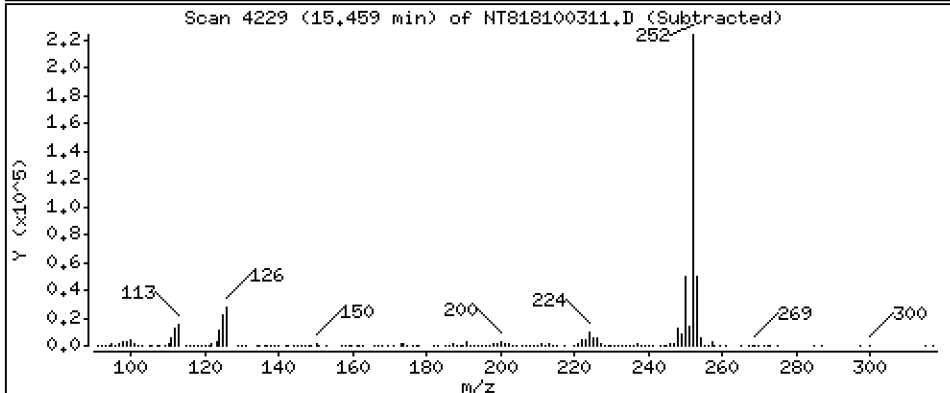
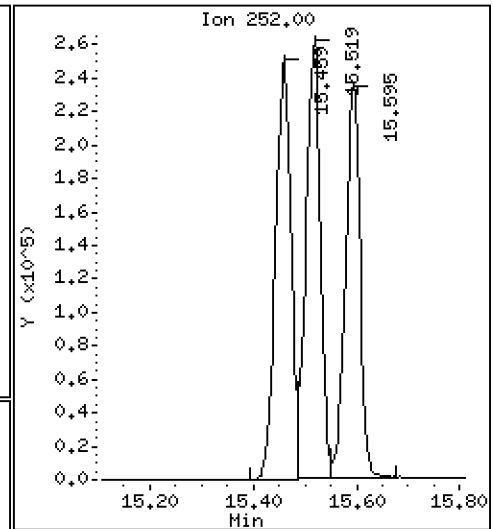
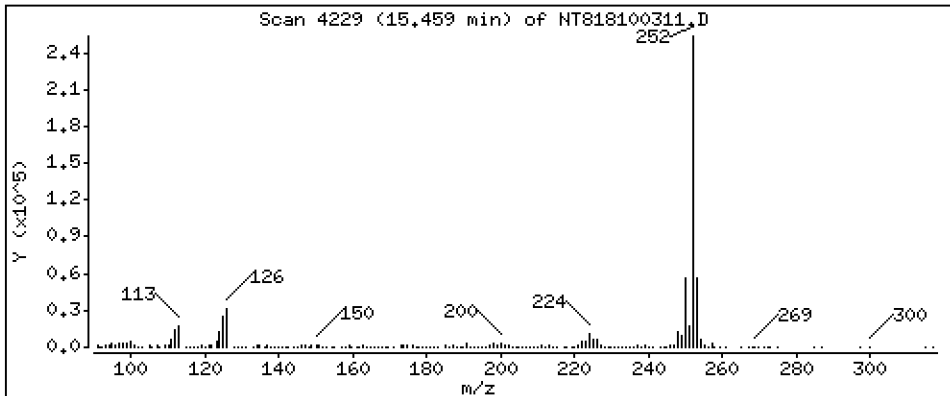
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 4,847 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

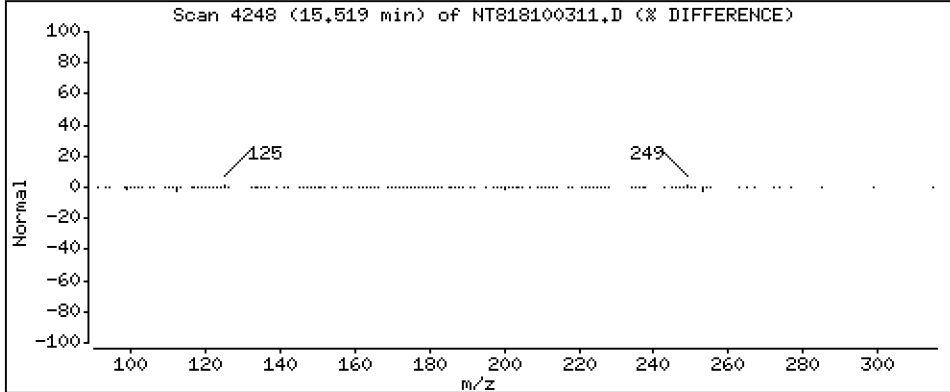
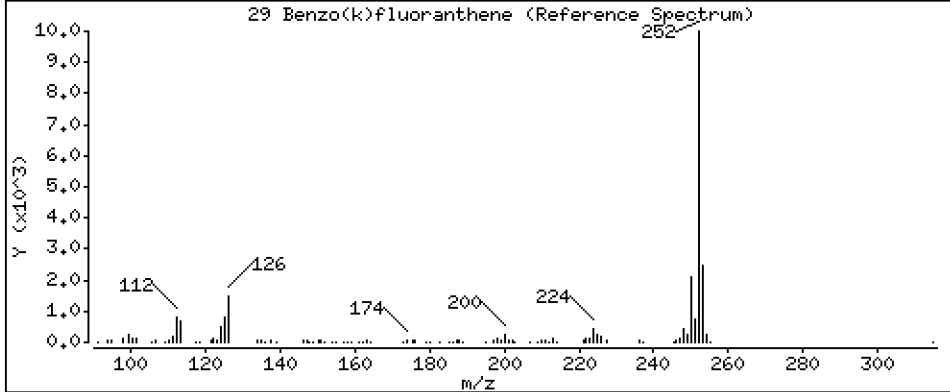
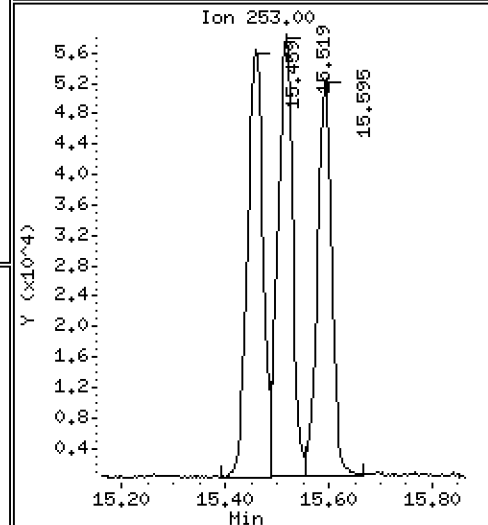
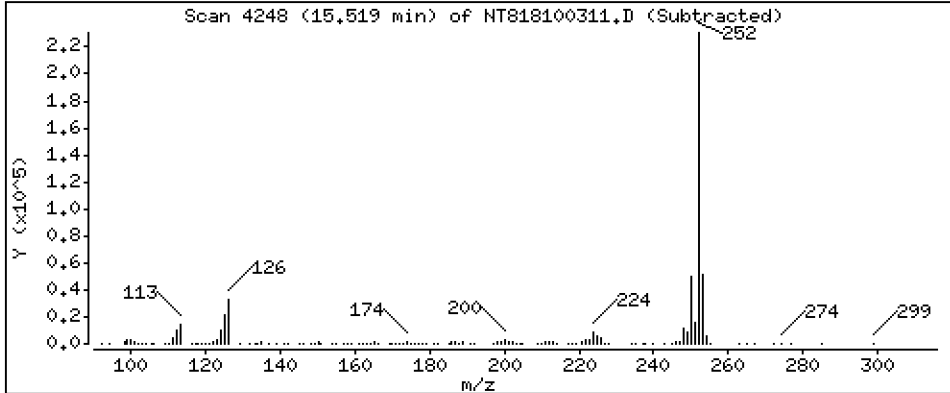
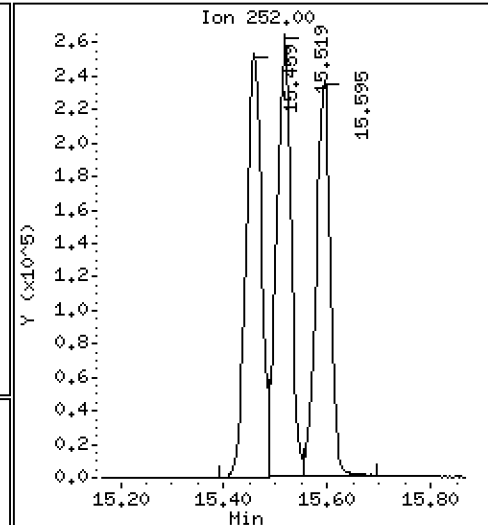
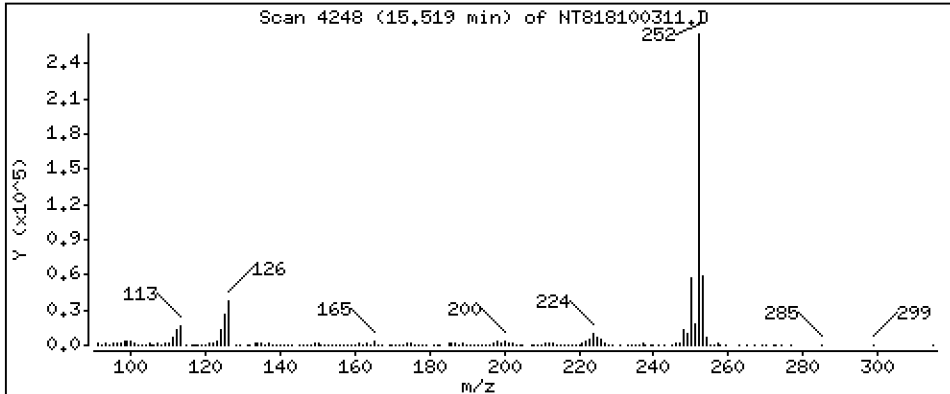
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 4,786 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

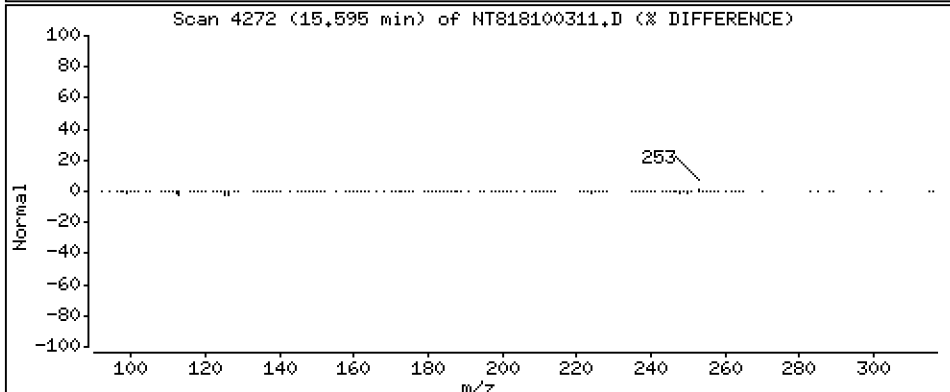
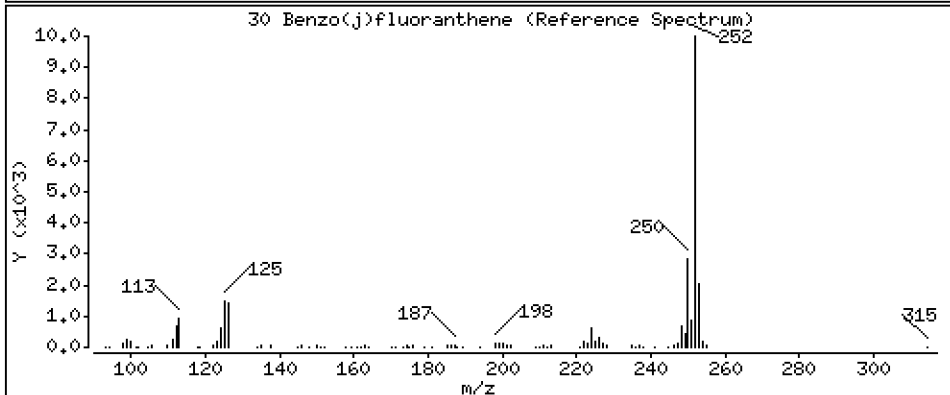
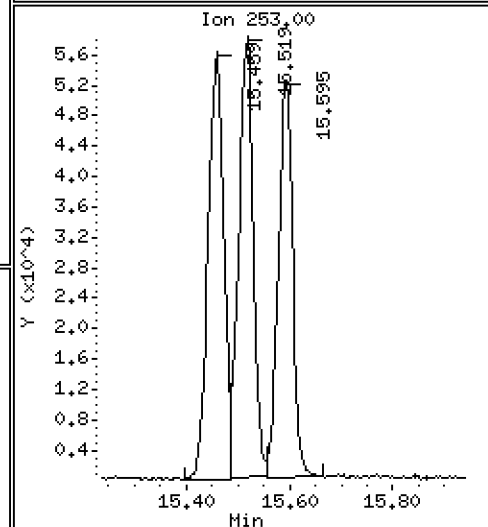
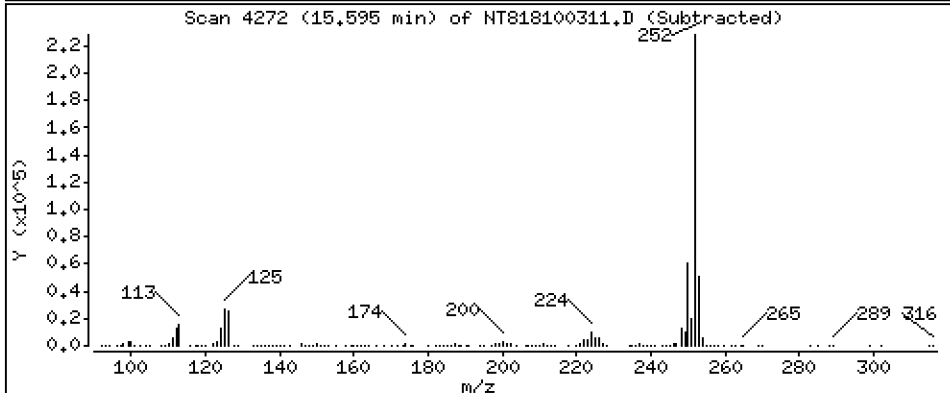
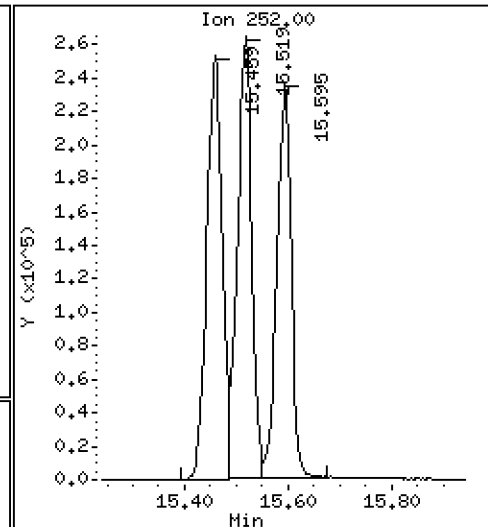
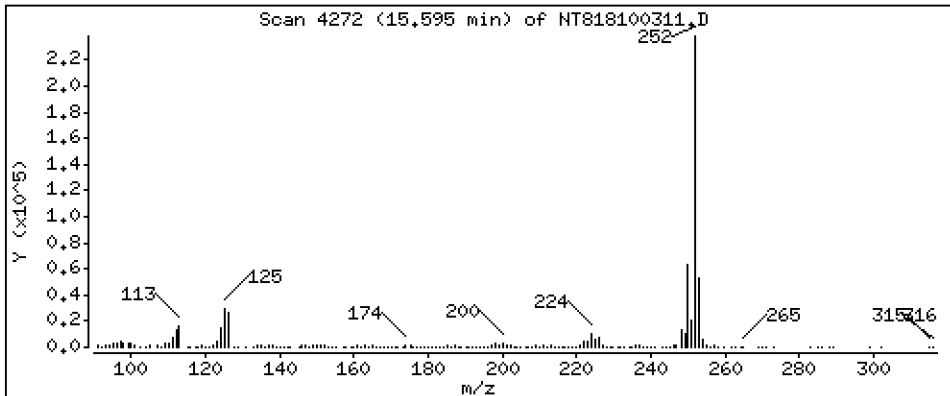
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

30 Benzo(j)fluoranthene

Concentration: 4,475 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

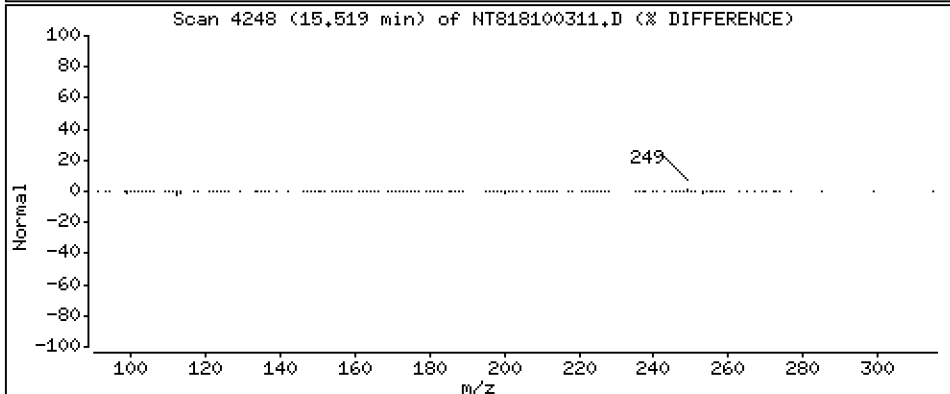
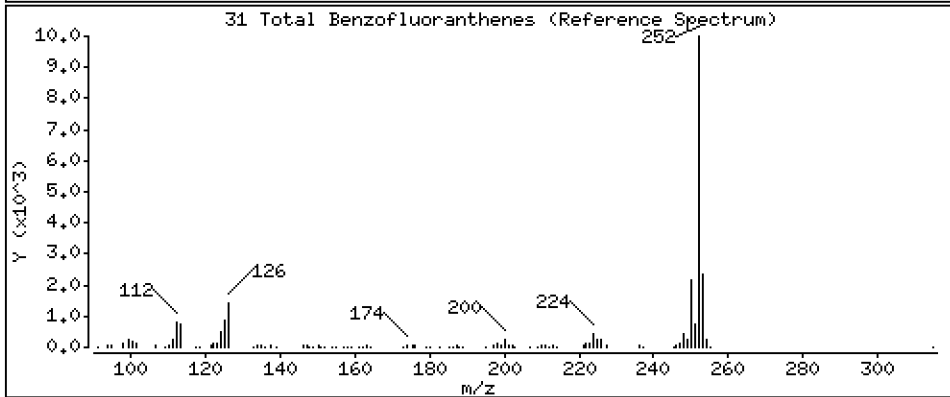
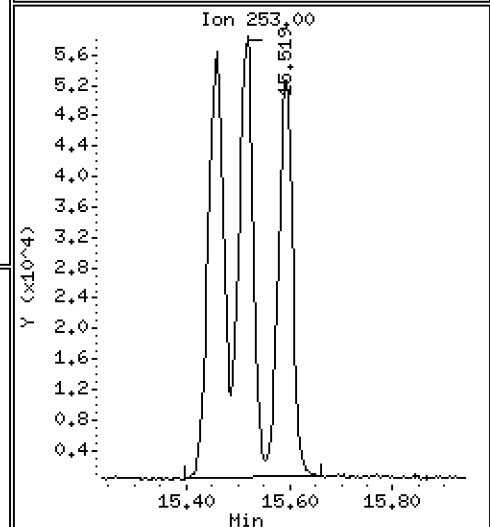
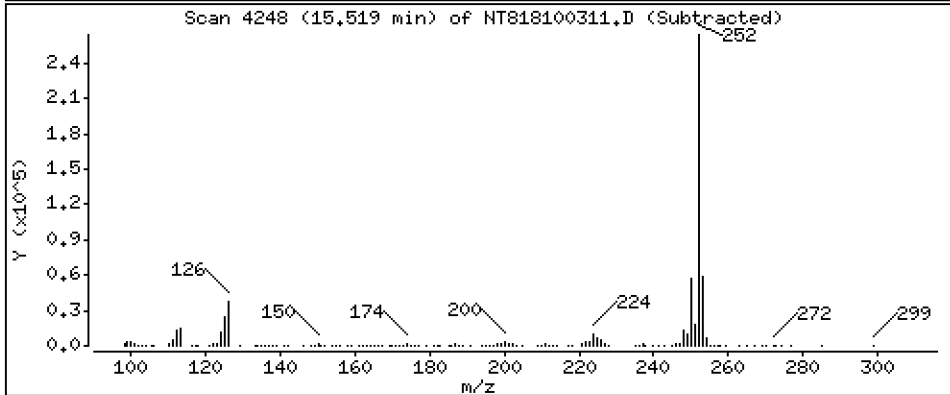
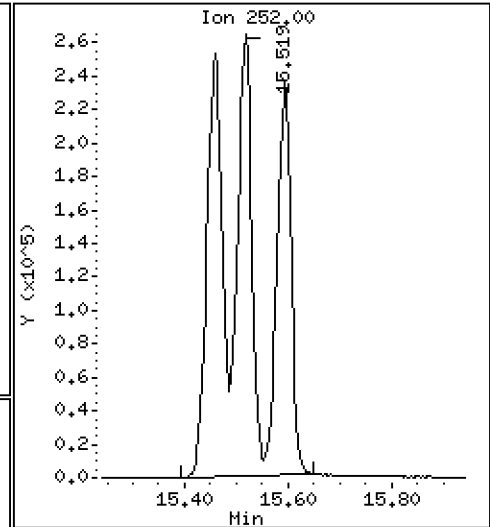
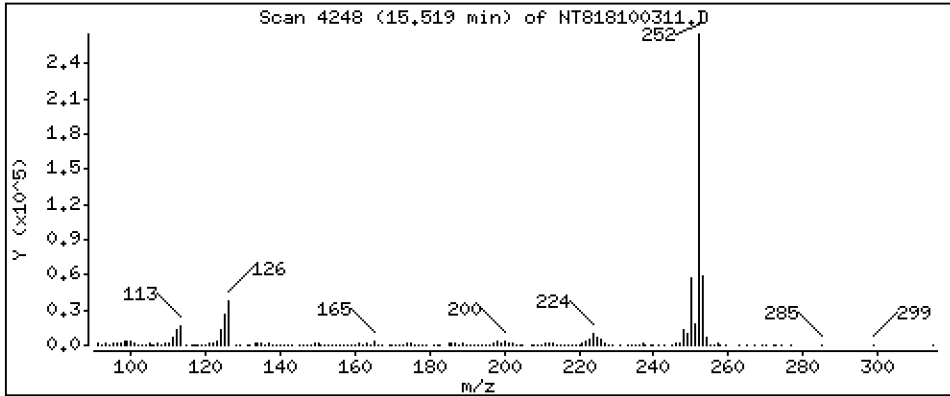
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 13,96 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

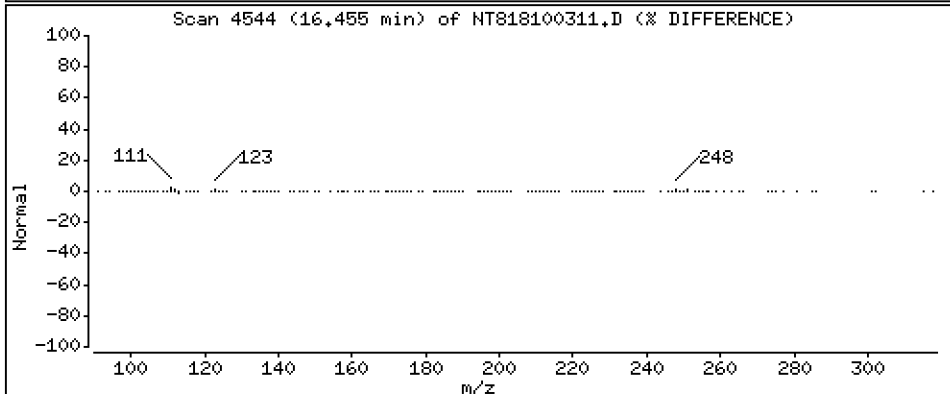
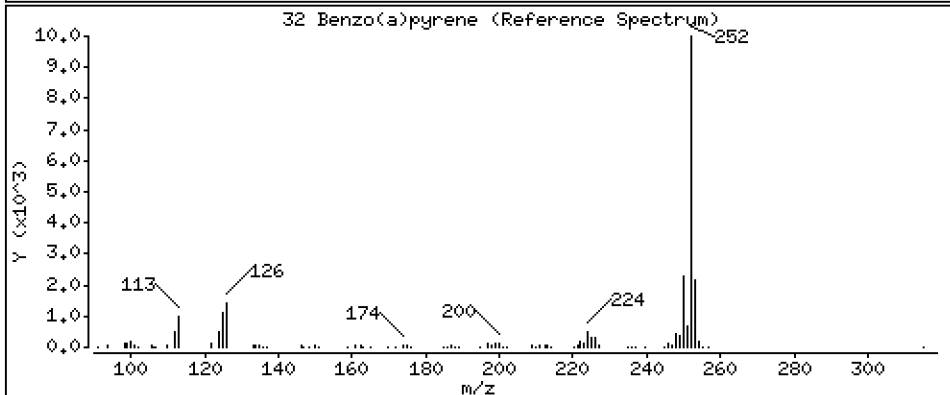
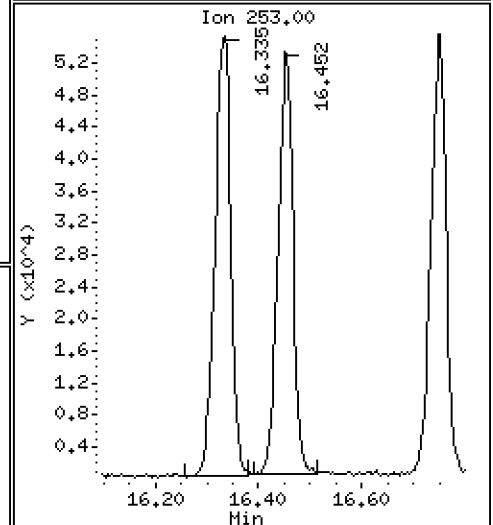
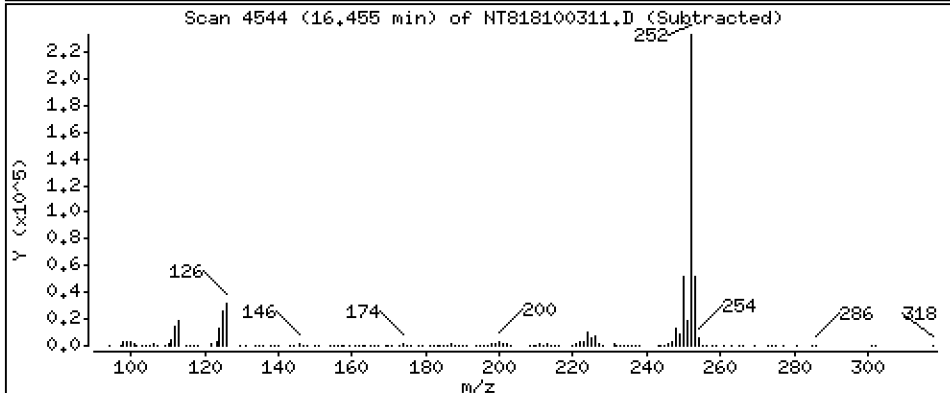
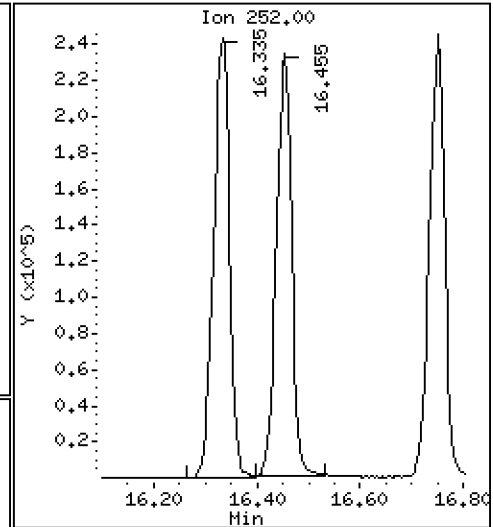
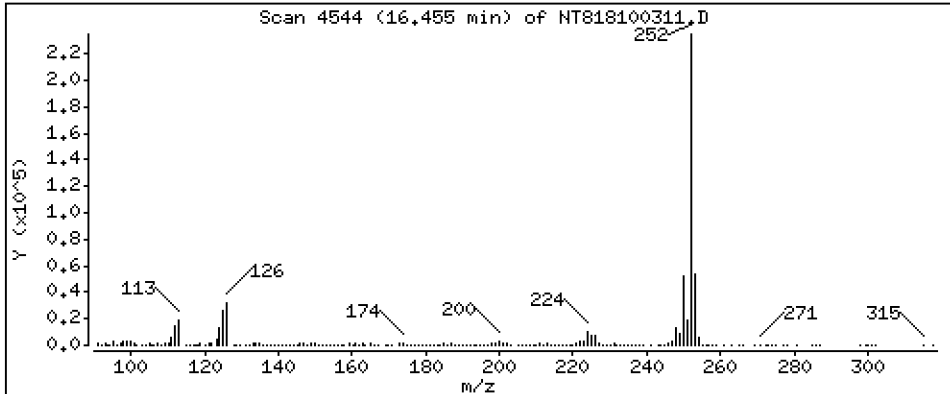
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 4,881 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

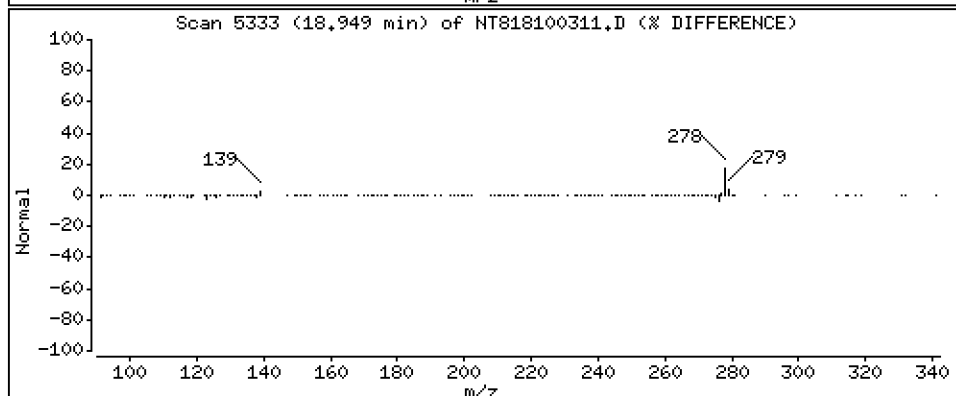
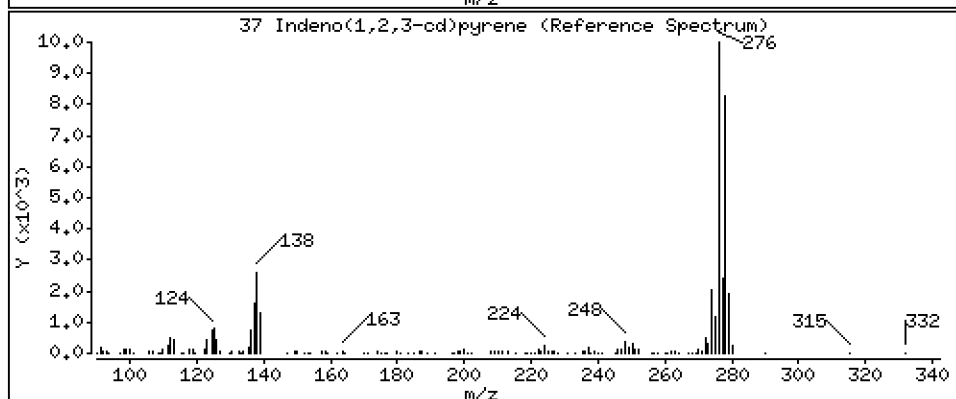
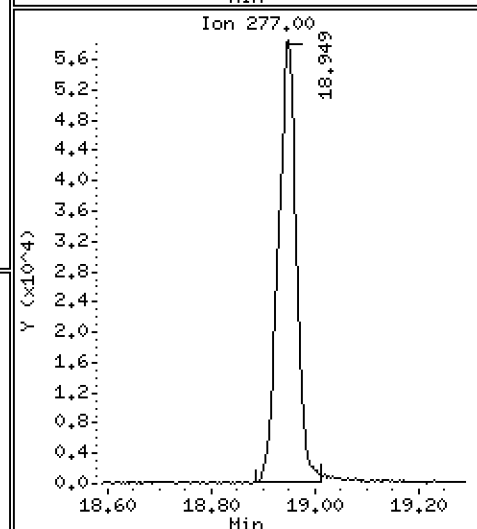
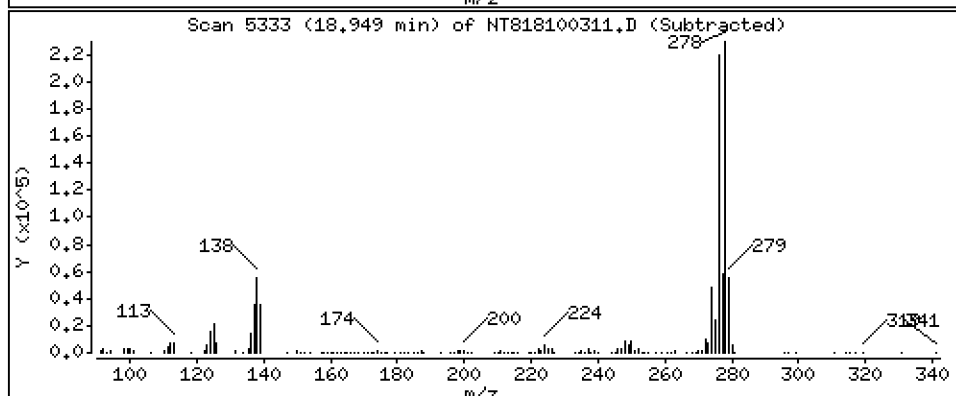
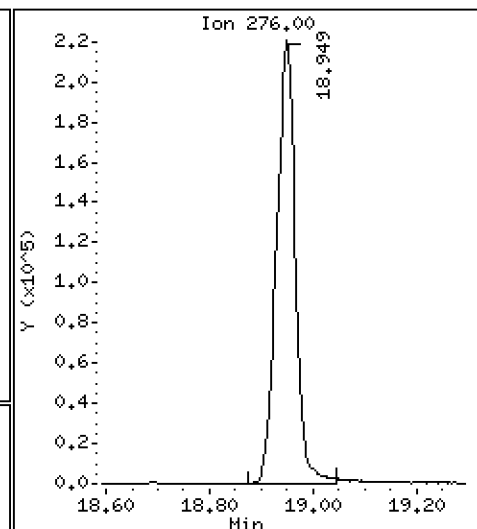
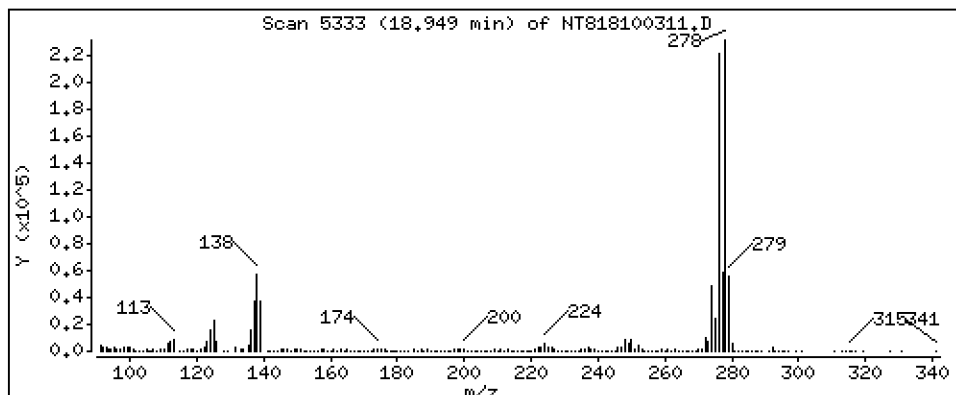
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 5,383 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

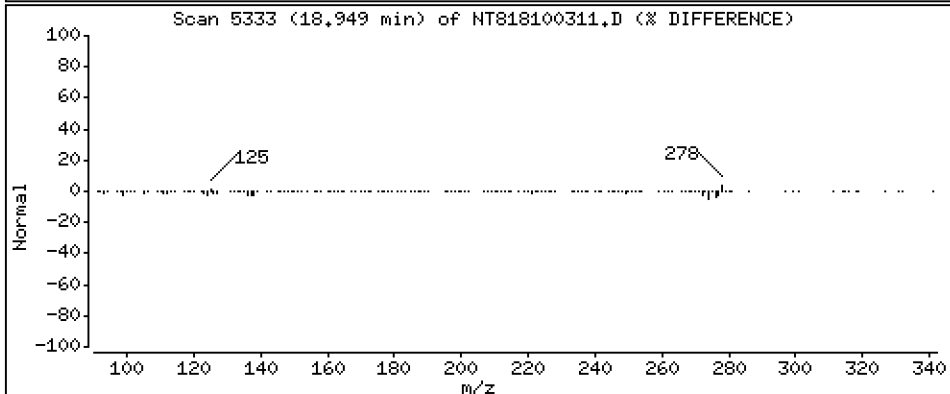
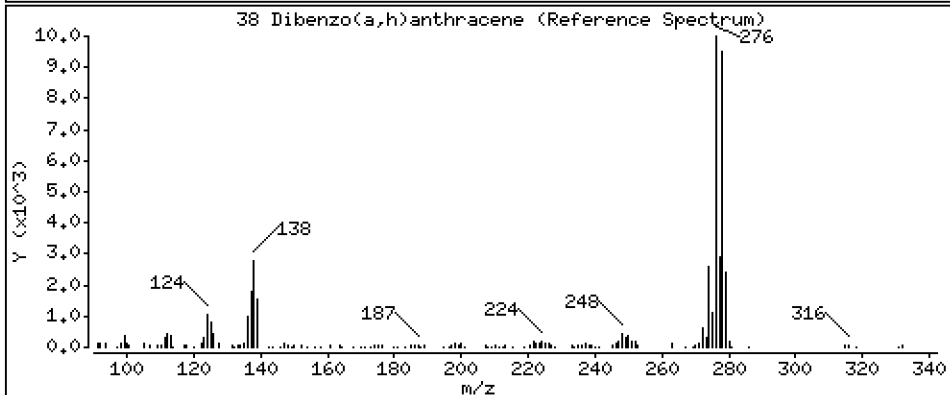
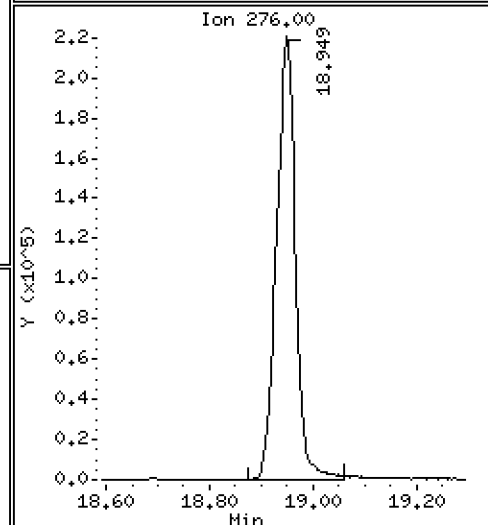
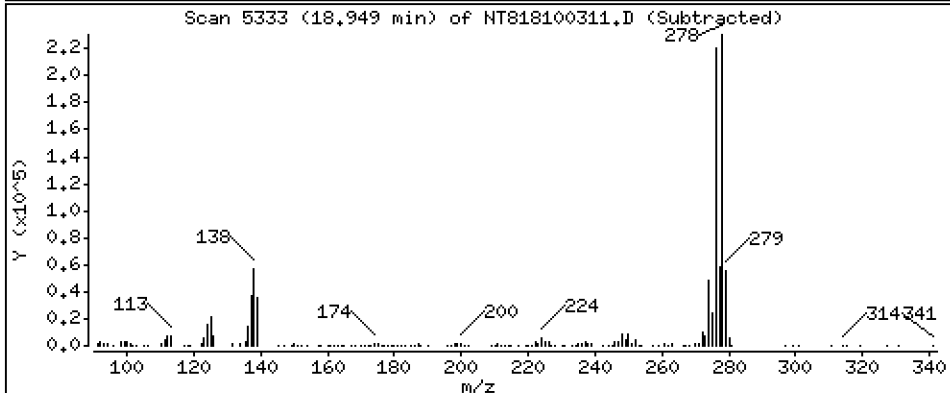
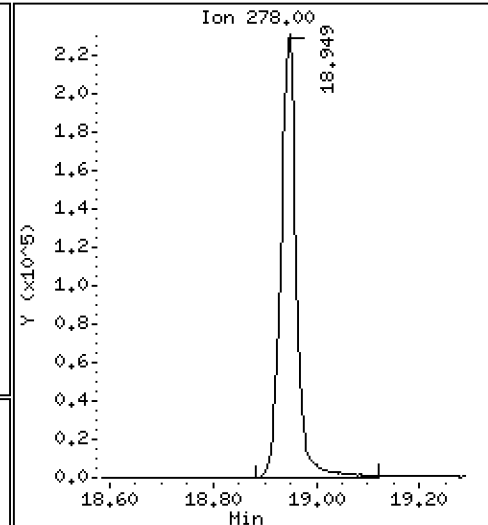
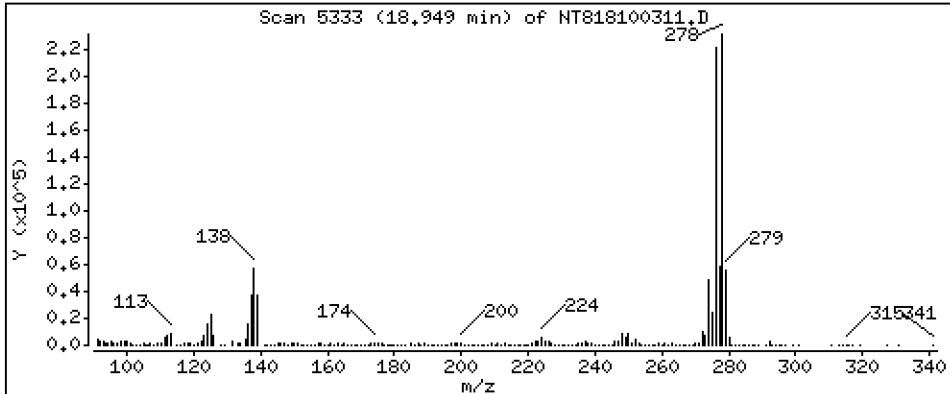
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 5,550 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

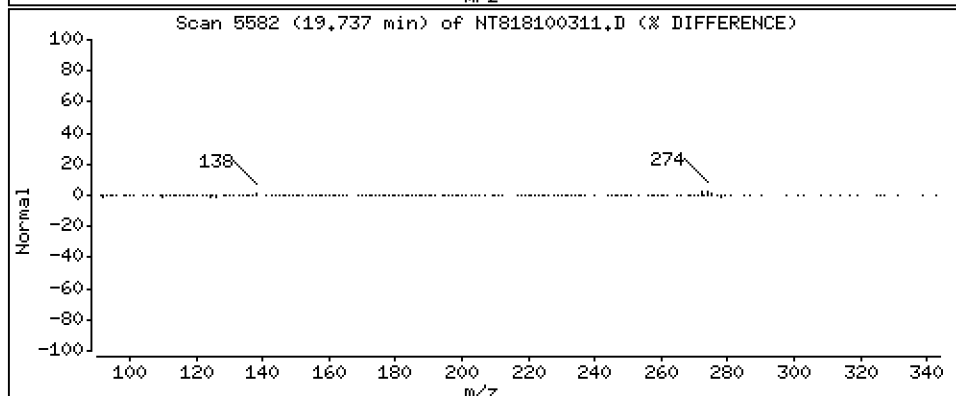
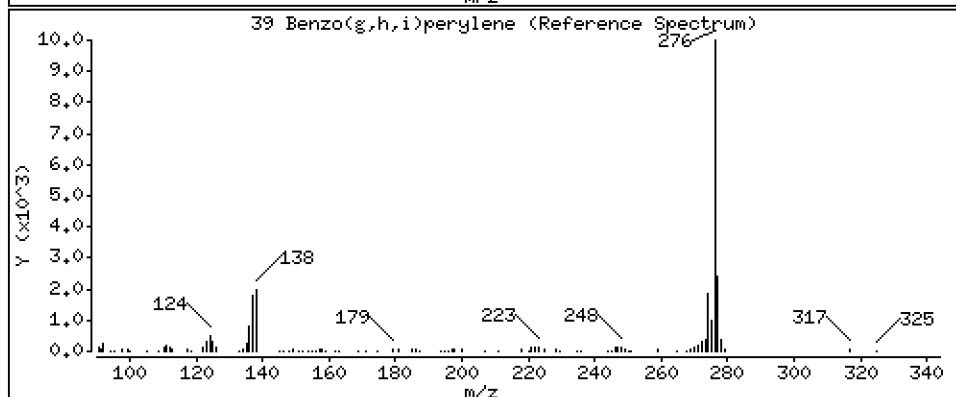
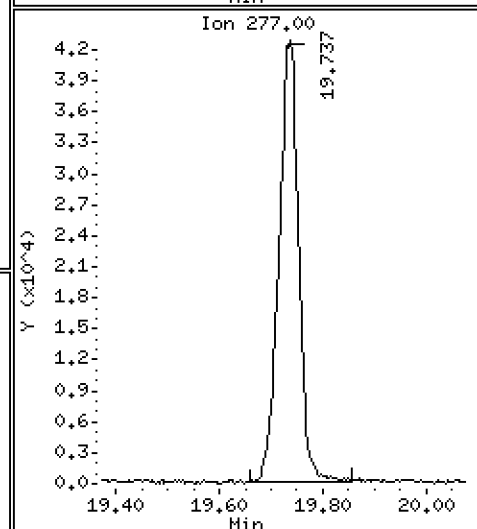
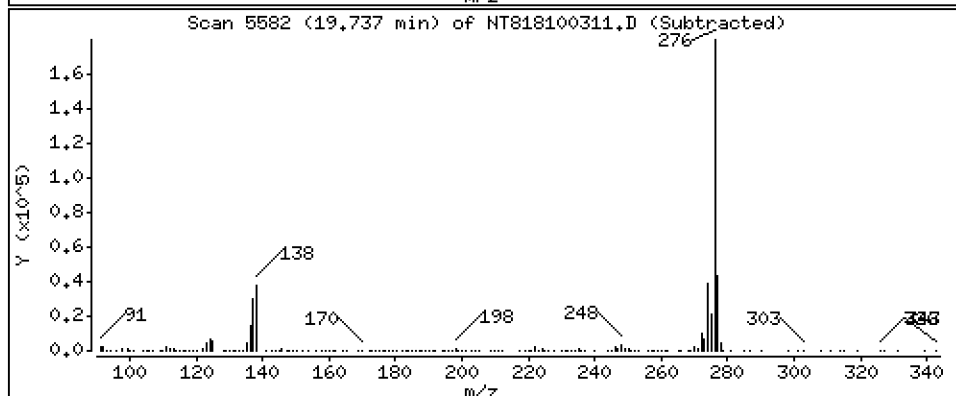
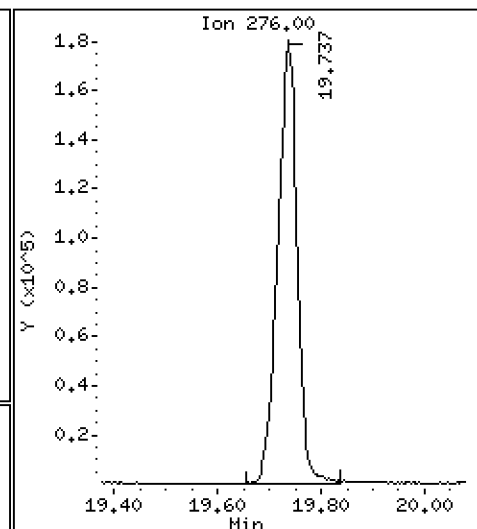
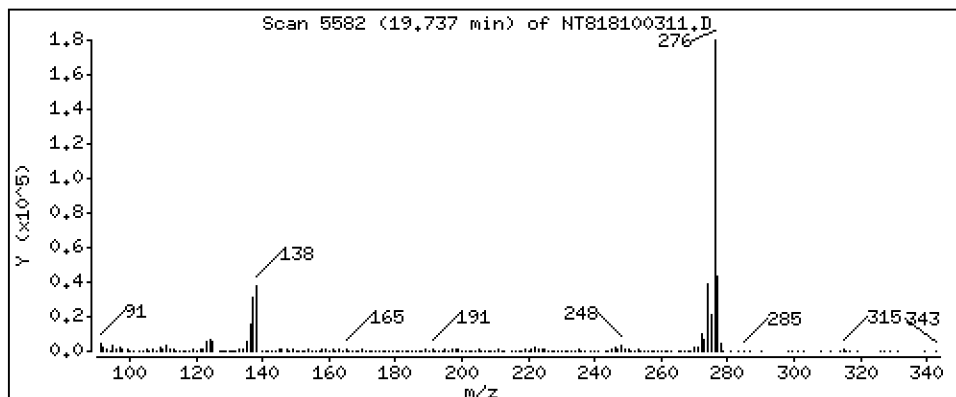
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 5,556 ug/mL



Date : 03-OCT-2018 15:35

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-MSD1,

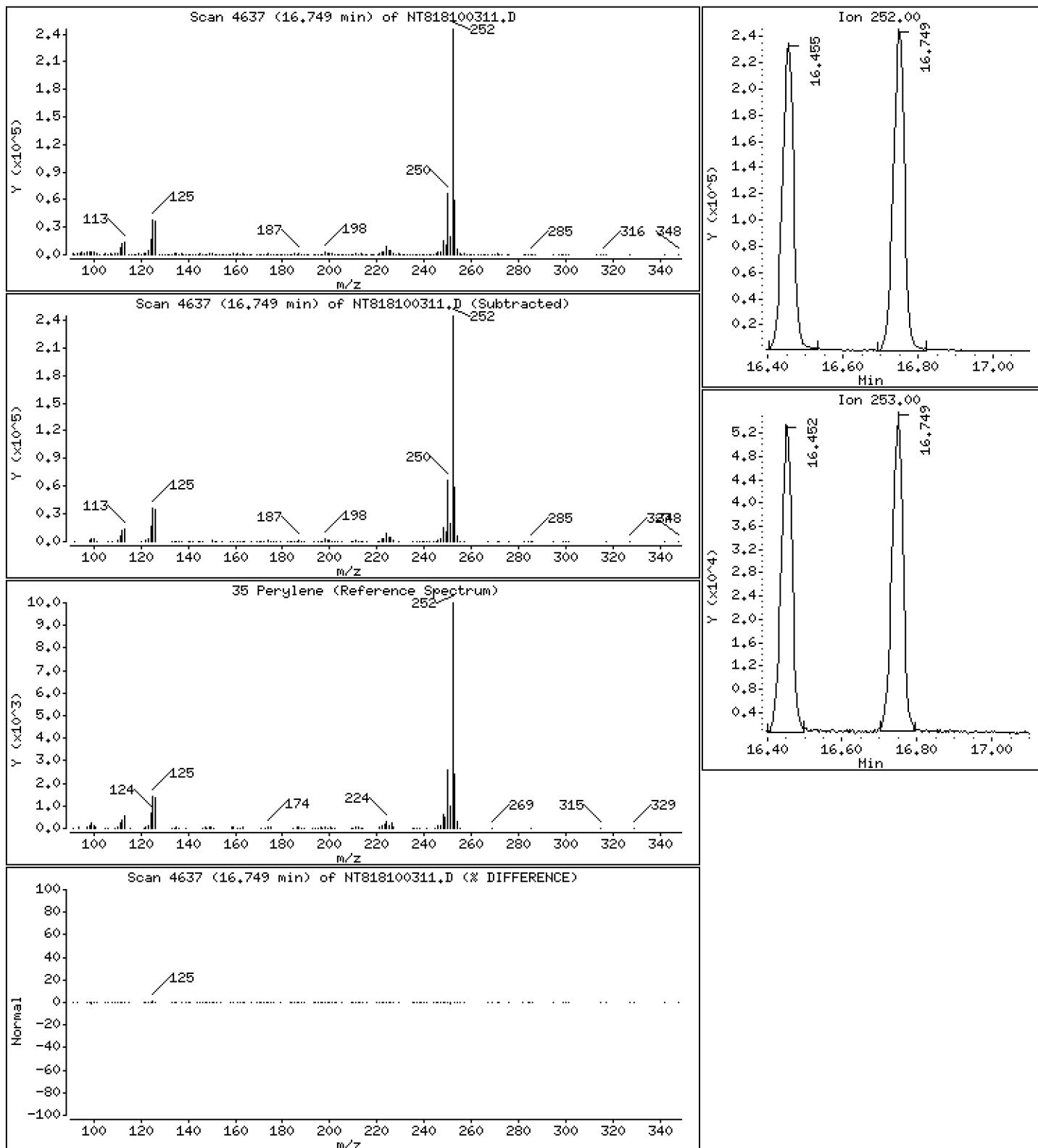
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 4,967 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100311.D
 Lab Smp Id: BGI0708-MSD1
 Inj Date : 03-OCT-2018 15:35
 Operator : JZ Inst ID: nt8.i
 Smp Info : BGI0708-MSD1,
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.309	4.319	(1.000)	165492	2.00000	
2 Naphthalene	128		4.338	4.347	(1.007)	351444	3.89647	3.896
\$ 3 2-Methylnaphthalene-d10	152		5.033	5.040	(1.168)	102594	1.75295	1.753
4 2-Methylnaphthalene	141		5.081	5.087	(1.179)	191717	3.79065	3.791
5 1-methylnaphthalene	141		5.273	5.280	(1.224)	194165	3.72881	3.729
9 Acenaphthylene	152		6.453	6.453	(0.983)	364027	3.95797	3.958
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	86712	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.007)	247825	3.99730	3.997
12 Dibenzofuran	168		6.760	6.763	(1.030)	346395	4.03325	4.033
14 Fluorene	166		7.231	7.231	(1.102)	294431	4.13917	4.139
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	169943	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	445861	4.86475	4.865
17 Anthracene	178		8.635	8.638	(1.008)	427447	4.76358	4.764
22 Fluoranthene	202		10.209	10.209	(1.192)	547604	5.13898	5.139
\$ 21 Fluoranthene-d10	212		10.178	10.178	(1.189)	252627	2.35384	2.354
23 Pyrene	202		10.655	10.655	(0.819)	572648	5.32292	5.323
24 Benzo(a)anthracene	228		12.897	12.897	(0.991)	521711	5.01517	5.015
* 25 Chrysene-d12	240		13.014	13.014	(1.000)	180806	2.00000	
27 Chrysene	228		13.084	13.080	(1.005)	507176	5.15835	5.158
28 Benzo(b)fluoranthene	252		15.458	15.458	(0.927)	530946	4.84652	4.847
29 Benzo(k)fluoranthene	252		15.518	15.515	(0.931)	519160	4.78623	4.786
30 Benzo(j)fluoranthene	252		15.594	15.591	(0.935)	460072	4.47465	4.475
31 Total Benzofluoranthenes	252		15.518	15.591	(0.931)	1484032	13.9570	13.96 (M)
32 Benzo(a)pyrene	252		16.454	16.451	(0.987)	482401	4.88141	4.881
* 33 Perylene-d12	264		16.672	16.672	(1.000)	175677	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.949	18.943	(1.137)	560400	5.38291	5.383
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.860	18.861	(1.131)	241759	3.06765	3.068
38 Dibenzo(a,h)anthracene	278		18.949	18.936	(1.137)	486634	5.55018	5.550
39 Benzo(g,h,i)perylene	276		19.736	19.727	(1.184)	475485	5.55595	5.556
35 Perylene	252		16.748	16.745	(1.005)	506408	4.96735	4.967

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100311.D Calibration Time: 11:20
 Lab Smp Id: BGI0708-MSD1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	165492	25.49
10 Acenaphthene-d10	72272	36136	144544	86712	19.98
15 Phenanthrene-d10	156058	78029	312116	169943	8.90
25 Chrysene-d12	174389	87195	348778	180806	3.68
33 Perylene-d12	150701	75351	301402	175677	16.57

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.22
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	-0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.04
25 Chrysene-d12	13.01	12.51	13.51	13.01	-0.00
33 Perylene-d12	16.67	16.17	17.17	16.67	-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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100311.D

Lab ID: BGI0708-MSD1
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 15:35

RT	CO-ELUTION COMPOUNDS
18.949	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
18.949	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
-----	-----	-----	-------	----------

NONE

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

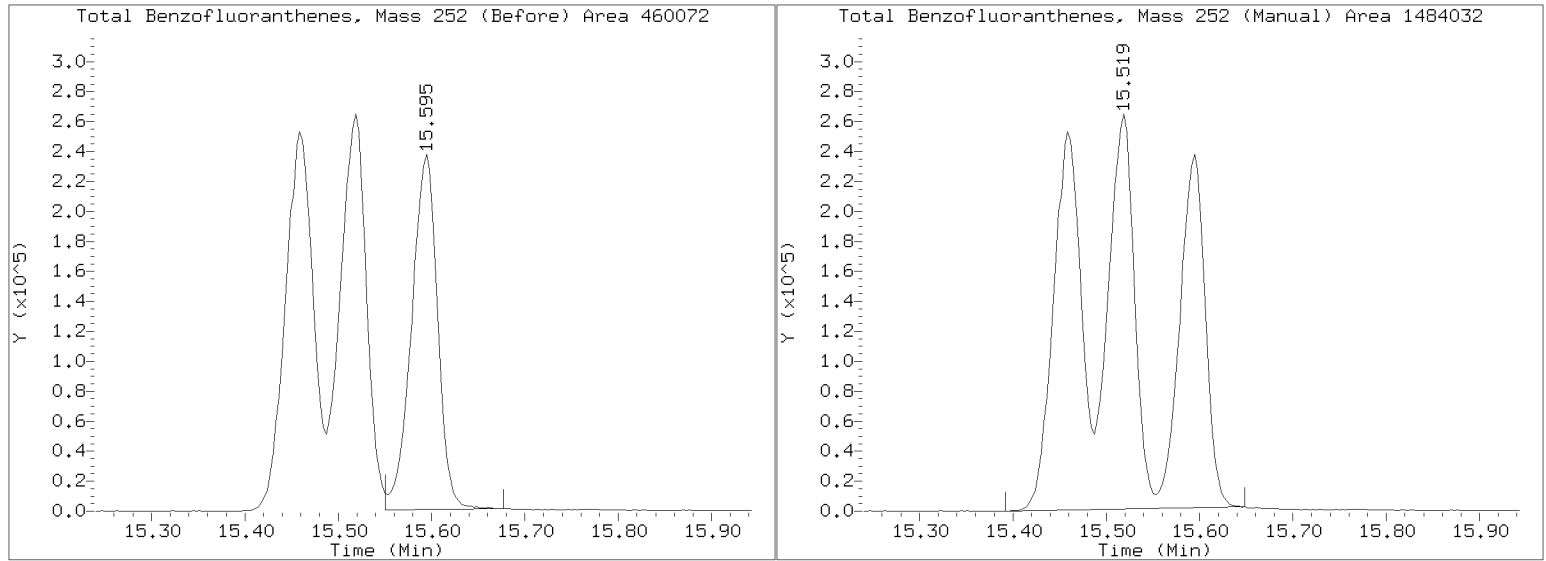
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100311.D

Injection Date: 03-OCT-2018 15:35

Lab ID: BGI0708-MSD1 Client ID:

Report Date: 10/03/2018 16:02





STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Solid

Laboratory ID: BGI0708-SRM1

Batch: BGI0708

Initial/Final: 5 g / 0.5 mL

Preparation: EPA 3546 (Microwave)

Analyzed: 10/03/2018 12:47

Standard ID: F011861

Description: CRM142-50g PAHs Silty Loam

Expires: 12/31/2019

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Naphthalene	433.00	231	2.55	10.0		53.4	26 - 174
Acenaphthylene	269.00	60.9	2.17	10.0	*	22.6 *	42 - 158
Acenaphthene	535.00	261	1.14	10.0	*	48.7 *	68 - 132
Fluorene	292.00	168	1.26	10.0	*	57.4 *	58 - 142
Phenanthrene	561.00	406	1.44	10.0		72.3	57 - 143
Anthracene	297.00	37.0	1.74	10.0	*	12.4 *	34 - 166
Fluoranthene	477.00	361	0.94	10.0		75.7	46 - 154
Pyrene	358.00	254	1.25	10.0	*	71.1 *	72 - 128
Benzo(a)anthracene	311.00	176	1.65	10.0		56.5	44 - 157
Chrysene	333.00	259	2.11	10.0		77.9	63 - 137
Benzo(b)fluoranthene	225.00	168	2.74	10.0		74.6	54 - 146
Benzo(k)fluoranthene	219.00	161	1.52	10.0		73.3	70 - 130
Benzo(a)pyrene	55.700	18.2	1.23	10.0		32.7	16 - 184
Indeno(1,2,3-cd)pyrene	293.00	225	2.10	10.0		76.8	35 - 165
Dibenzo(a,h)anthracene	92.700	81.8	1.78	10.0		88.2	20 - 180
Benzo(g,h,i)perylene	173.00	182	2.13	10.0		105	39 - 161

* Values outside of QC limits

Certificate of Analysis

PAHs - Silty Loam Soil

F011961

Certificate
Reference
Material

Product ID CRM142-50G

Lot LRAA9528

Expiration Date December 31, 2019

Storage Conditions Store at room temperature

Analyte	Units	Certified ^{1,4} Value	k ⁵	Standard Deviation ²	Confidence Interval	Prediction Interval
Naphthalene	ug/Kg	433 ± 92.7	2.00	145	343 to 523	112 to 753
Acenaphthene	ug/Kg	535 ± 47.4	2.00	77.8	484 to 586	363 to 707
Acenaphthylene	ug/Kg	269 ± 43.4	2.00	71.2	224 to 313	112 to 425
Anthracene	ug/Kg	297 ± 54.5	2.00	89.4	242 to 352	101 to 493
Benzo(a)anthracene	ug/Kg	311 ± 48.7	2.00	80.0	263 to 360	136 to 487
Benzo(a)pyrene	ug/Kg	55.7 ± 13.5	2.00	21.1	41.6 to 102.0	8.87 to 103
Benzo(b)fluoranthene	ug/Kg	225 ± 28.5	2.00	46.8	196 to 254	122 to 328
Benzo(g,h,i)perylene	ug/Kg	173 ± 29.2	2.00	48.0	145 to 202	68.2 to 274
Benzo(k)fluoranthene	ug/Kg	219 ± 18.1	2.00	29.6	201 to 237	154 to 284
Chrysene	ug/Kg	333 ± 35.4	2.00	55.4	298 to 368	211 to 456
Dibenzo(a,h)anthracene	ug/Kg	92.7 ± 20.6	2.00	33.9	72.4 to 113	18.4 to 167
Fluoranthene	ug/Kg	477 ± 71.5	2.00	117	408 to 547	220 to 734
Fluorene	ug/Kg	292 ± 33.7	2.00	55.3	255 to 328	169 to 414
Indeno(1,2,3-cd) pyrene	ug/Kg	293 ± 52.9	2.00	86.8	244 to 341	103 to 482
Phenanthrene	ug/Kg	561 ± 67.5	2.00	111	490 to 632	317 to 805
Pyrene	ug/Kg	358 ± 27.8	2.00	45.7	327 to 389	257 to 460

Sample Information

DESCRIPTION

The organic sample is a soil containing extractable PAHs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested show homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4°C.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4°C. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4°C.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stability and popularity upon successful stability testing by a 17025 accredited laboratory.

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extract



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solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The Polyaromatic Hydrocarbons (PAHs) in Soil Certified Reference Material (CRM) consists of a single amber glass sample jar, with Teflon lined closure containing approximately 100 grams of soil, fortified with 116 PAHs. Being a natural matrix waste sample the analysis is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis. Rigorous analyses identified, quantified, and certified various aliphatic and aromatic banding which are listed on the enclosed Certificate of Analysis. The sample has been analyzed by a minimum of 12 independent laboratories in a round-robin to meet requirements specified by the ISO Guides 34 and 35, and ISO 17025.

EVALUATION OF RESULTS

The Reference Value, 95% confidence interval (C.I.) for the Reference Value and 95% Prediction Interval (P.I.) around the Reference Value were obtained by the methods identified in the 'Scope and Application' section of this Certificate of Analysis. Samples were selected in a random fashion from the beginning to the end of the bottling sequence and sent for analysis by an independent laboratory round-robin. The data produced in the round-robin was used to calculate reference values by the USEPA EMSL-CINN's computer program "BIWEIGHT".

The generated BIWEIGHT mean, BIWEIGHT standard deviation and BIWEIGHT standard deviation of the mean are used to calculate the 95% Confidence Interval (CI) for the mean and the 95% Prediction Interval (PI). For normally distributed data, the BIWEIGHT 95% CI compares well to the classical calculation method used to generate a 95% CI. For non-Gaussian data sets, the BIWEIGHT method is more robust in data treatment.

BIWEIGHT data are also used to calculate a 95% PI. The 95% PI compares well to a 95% tolerance limit calculated using classical methods. For normally distributed data, the BIWEIGHT 95% PI typically represents approximately a ± 2 BIWEIGHT standard deviation window around the BIWEIGHT mean. Again, the BIWEIGHT method is more robust than classical methods when handling non-Gaussian data sets.

Laboratories performing the same analytical procedures on a sample whose values have been determined by the BIWEIGHT method can assume that the true mean, as determined by the method, is within the 95% CI window. Laboratories analyzing the sample should have results within the 95% PI window 19 out of 20 analyses. Laboratories should use the PI as guidance for laboratory performance.

Additional information on the program may be obtained by referring to the reference or by downloading the program from the EMSL-CINN web site. Additionally contact SigmaAldrich for additional guidance - 1(307)742-5452 - RTCTechGRoup@sial.com - www.sigmaaldrich.com

HEALTH AND SAFETY INFORMATION

Certified Reference Materials are intended only for professional use by properly trained laboratory personnel. This CRM has been reviewed for both health and safety and shipping risks. It is classified as non hazardous and is not classified as hazardous goods for shipping by road, sea or air transport.

A full international MSDS as a downloadable pdf file is available at www.sigmaaldrich.com

Certificate of Analysis

PAHs - Silty Loam Soil

Product ID CRM142-50G

Lot LRAA9528

Expiration Date December 31, 2019

Storage Conditions Store at room temperature

Certified
Reference
Material

1 Certified value - based on the robust mean of round robin, interlaboratory study and analytically verified by RTC with associated uncertainties from the preparation and analytical procedures.

2 The standard deviation is the robust statistical standard deviation from the round robin interlaboratory study.

3 Acceptance limits are based on Interlaboratory Study Results. These ranges are recommendations only.

4 U_{CRM} - Uncertainty values in this document are expressed as Expanded Uncertainty (U_{CRM}) corresponding to the 95% confidence interval. U_{CRM} is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the calculation is as follows:

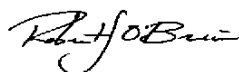
$$U_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

5 k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Confidence interval = 95%

Traceability: The standard was manufactured under an ISO/IEC 17025:2005 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2005 (AClass Cert AT-1467) and GUIDE 34:2009 (AClass Cert AR-1470).



Robert O'Brien - QC Supervisor



Mark Pooler - QA Supervisor

Certification Date October 15, 2015

Version 285-10152015



SIGMA-ALDRICH®

TO: ANALYTICAL RESOURCES

FROM: SIGMA-ALDRICH, INC.

4611 S 134TH PLACE STE 100
TUKWILA, WA 98168-3240

6000 N. TEUTONIA AVE.
MILWAUKEE, WI 53209
414-438-3850 or 800-558-9160

F011861

PO: 
60167

DATE: 12/15/2017 TIME: 4:29:29PM
CARTON: 981047173

Sales Order No: 3019769157

Catalog No. - Unit	Description	Batch	Orig. Pkt Qty	Units Packed										
CRM142-50G	PAHS - SILTY LOAM SOIL	LRAA9528	1	1										
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DELIVERY No.	SOLD TO ACCT.	SHIP TO No.	REQUESTED ROUTING TERMS-NET 30 DAYS F.O.B. PLANT											
0858511579	49432933	49647437	R07P - RPS/FXG											



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Hazardous materials are packed according to UN performance oriented packaging requirements for protection from breakage and/or leakage. Although not required, we follow similar processes for non-hazardous materials to prevent breakage and/or leakage.

Data File: \\target\share\chem3\nt8.1\20181003.1\NT818100305.D

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Sample Info: BG10708-SRM1,

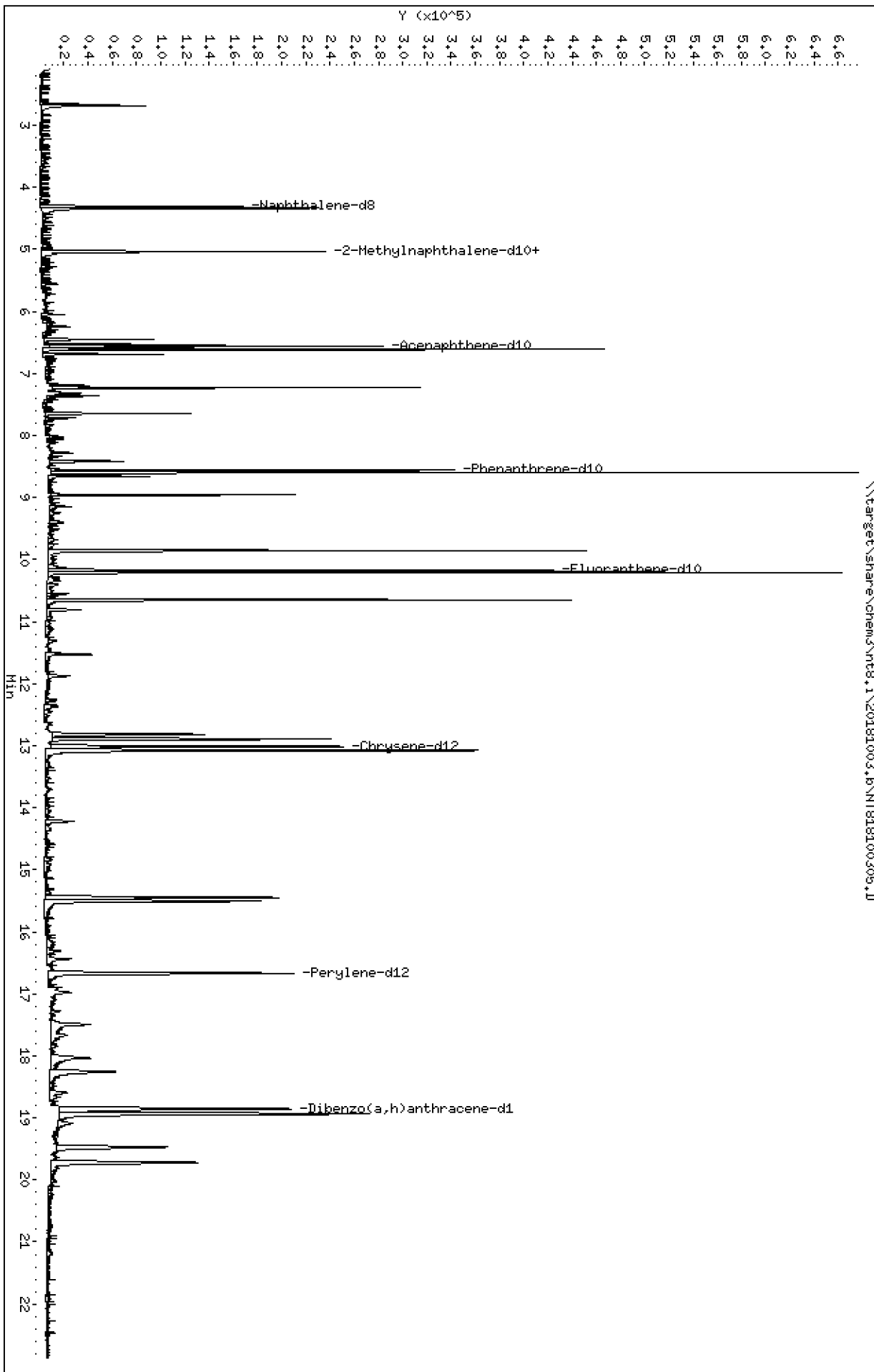
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20181003.1\NT818100305.D



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

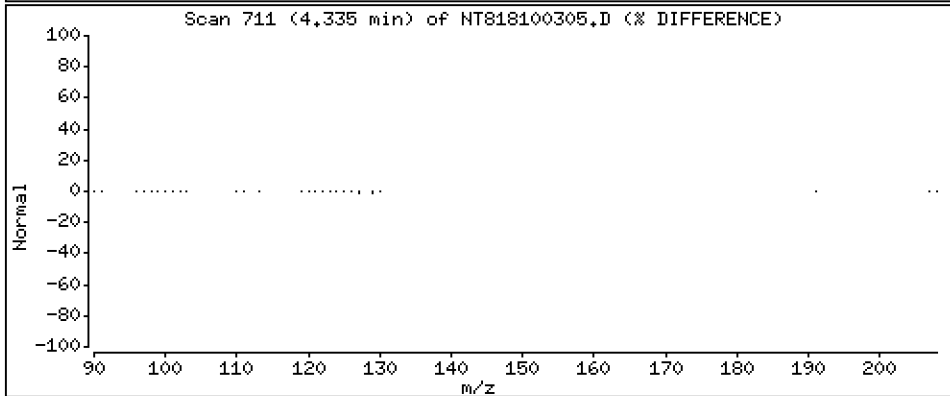
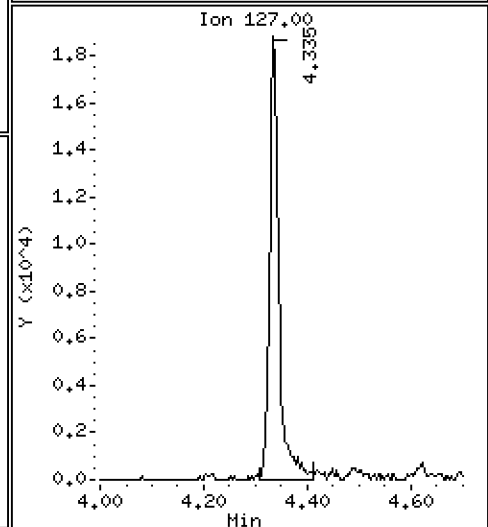
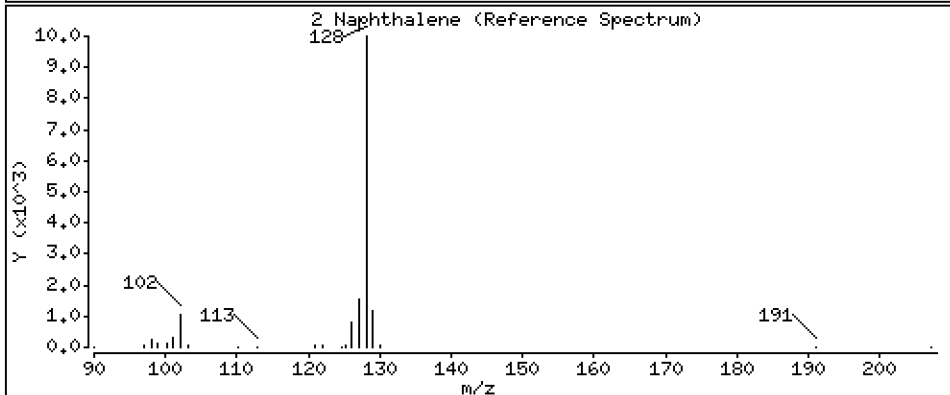
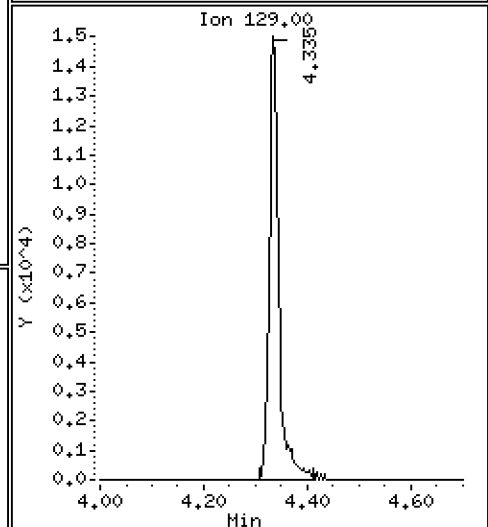
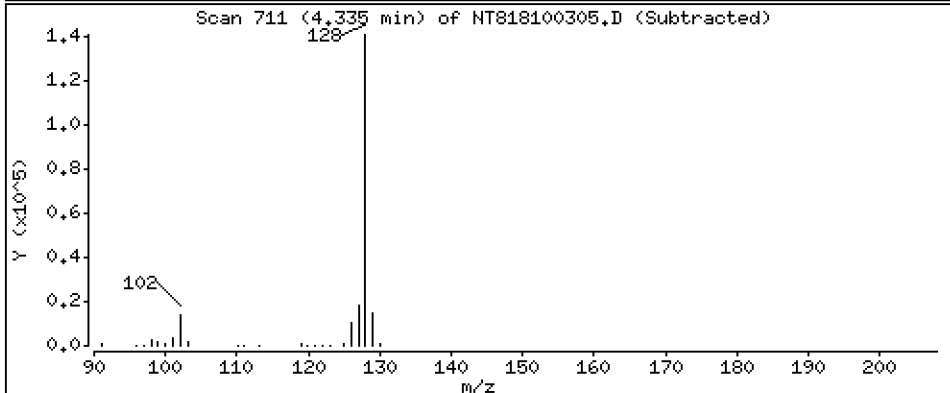
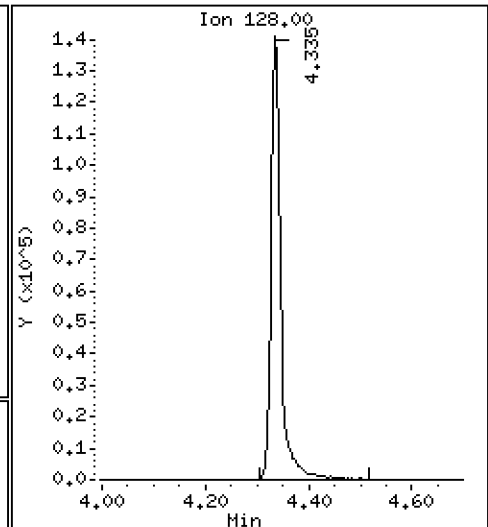
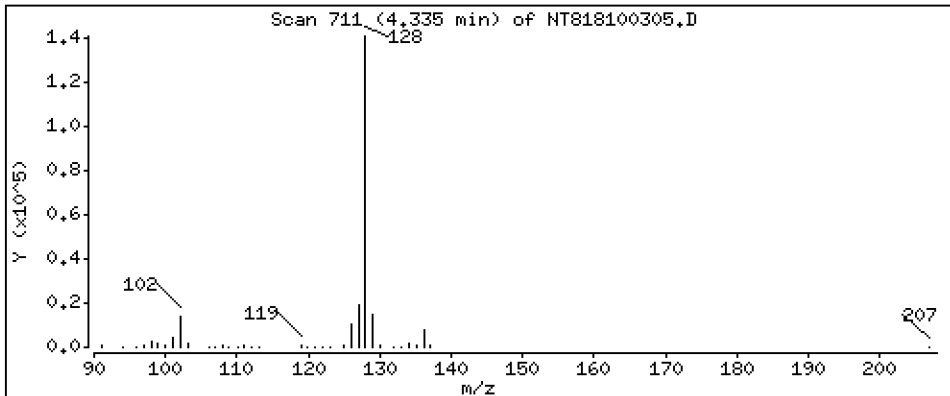
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

2 Naphthalene

Concentration: 2,313 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

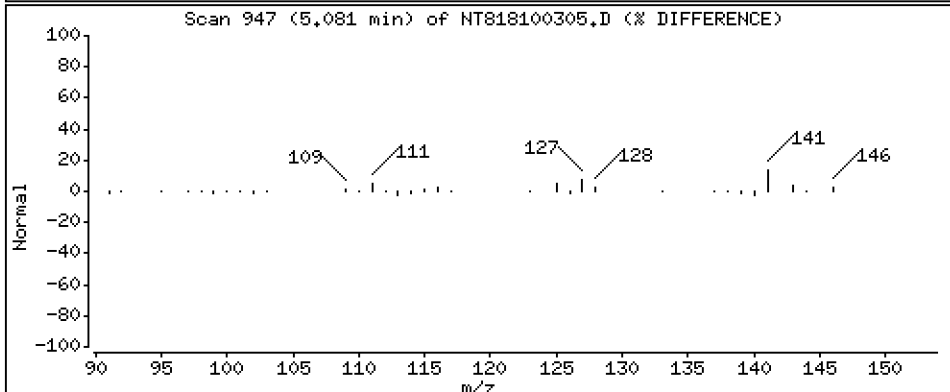
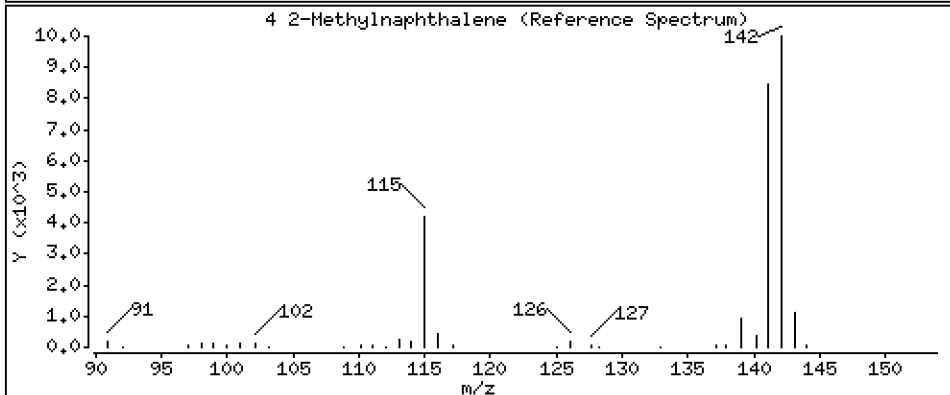
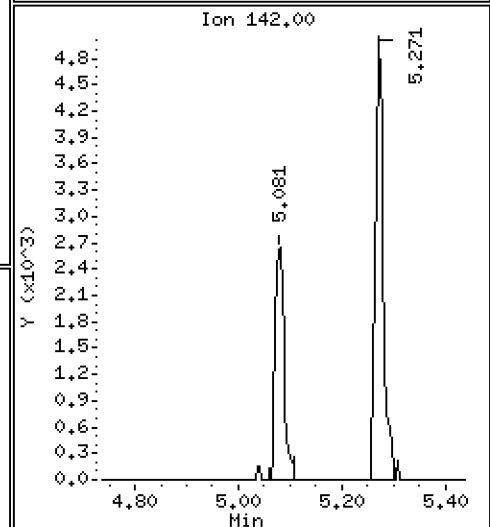
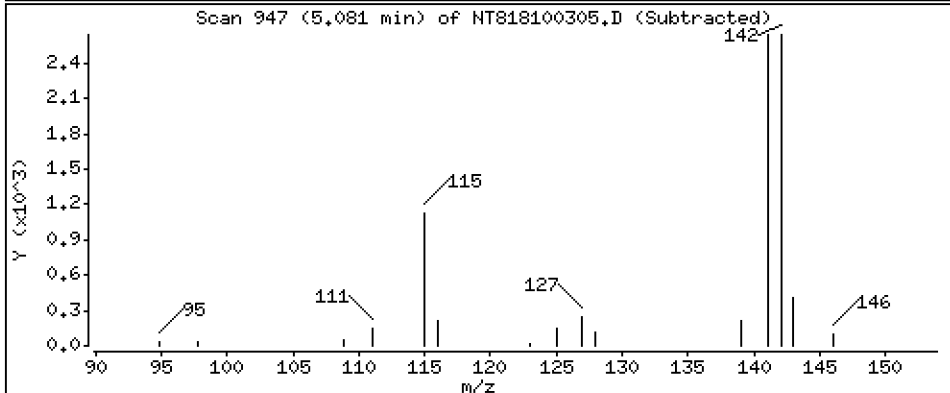
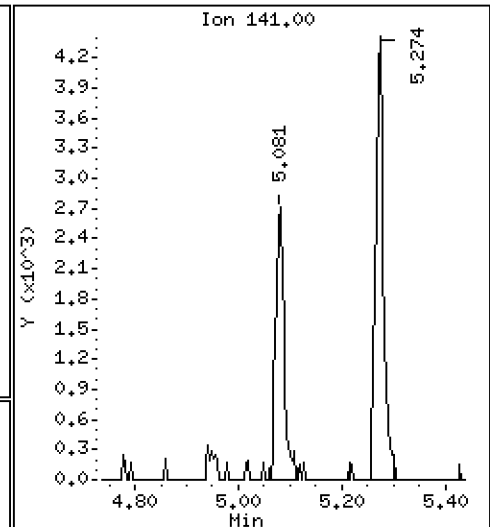
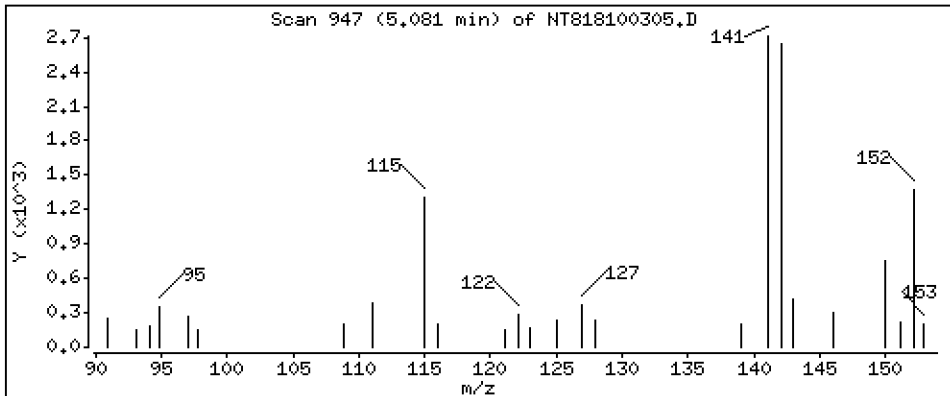
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4 2-Methylnaphthalene

Concentration: 0.06870 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

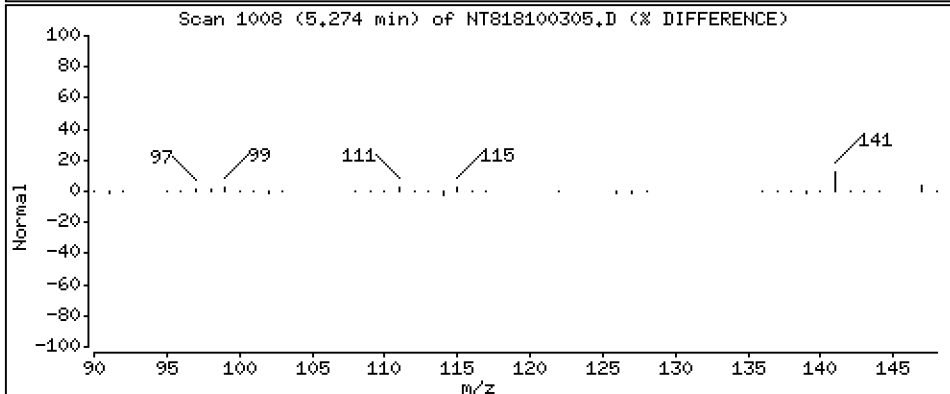
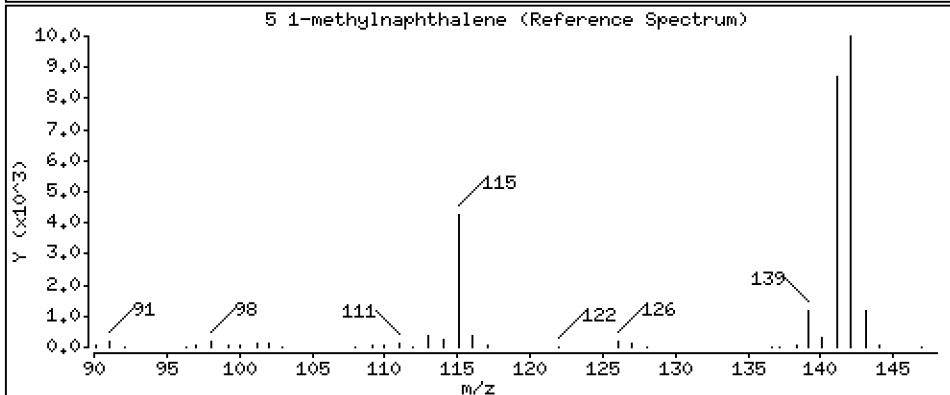
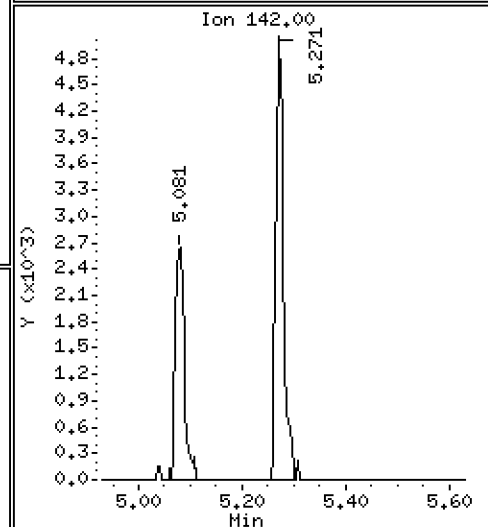
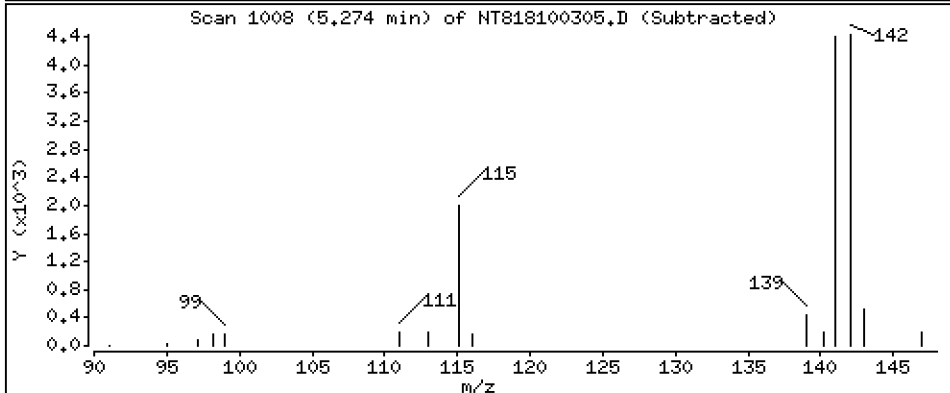
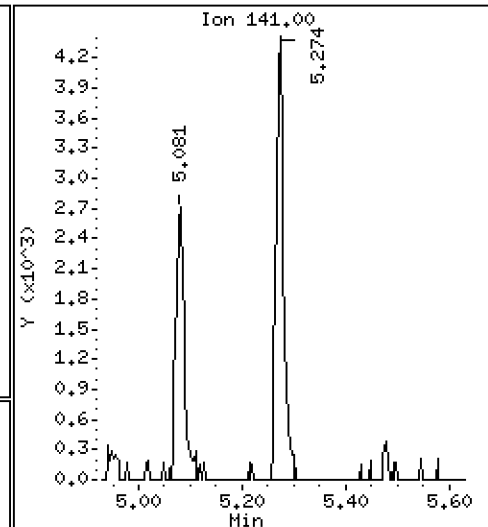
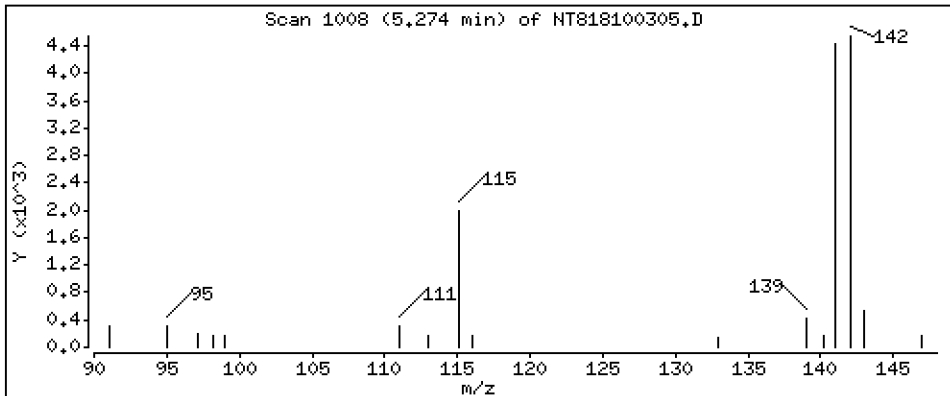
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

5 1-methylnaphthalene

Concentration: 0.09944 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

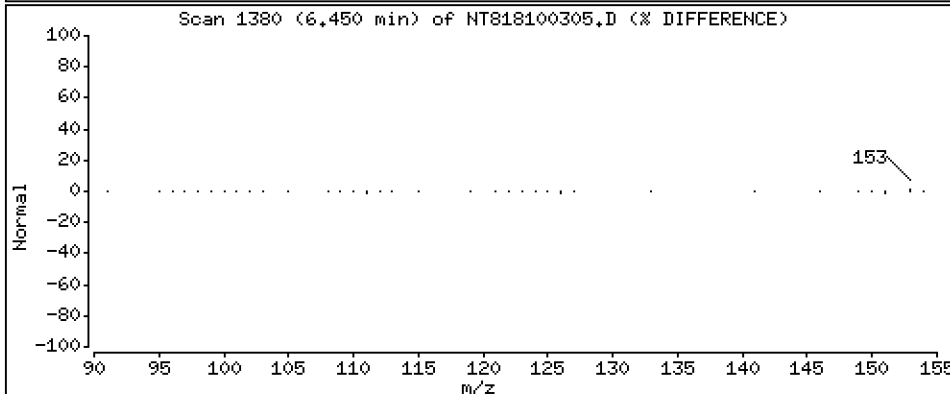
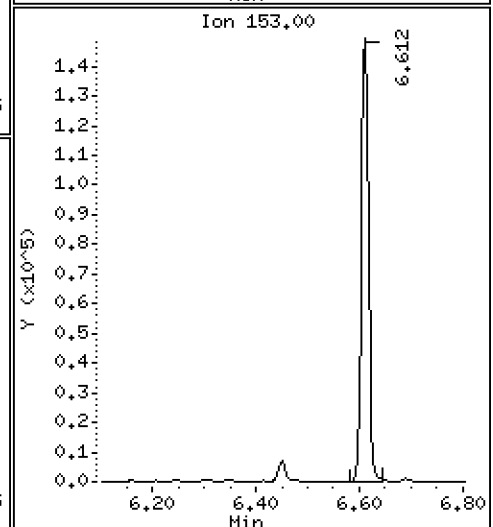
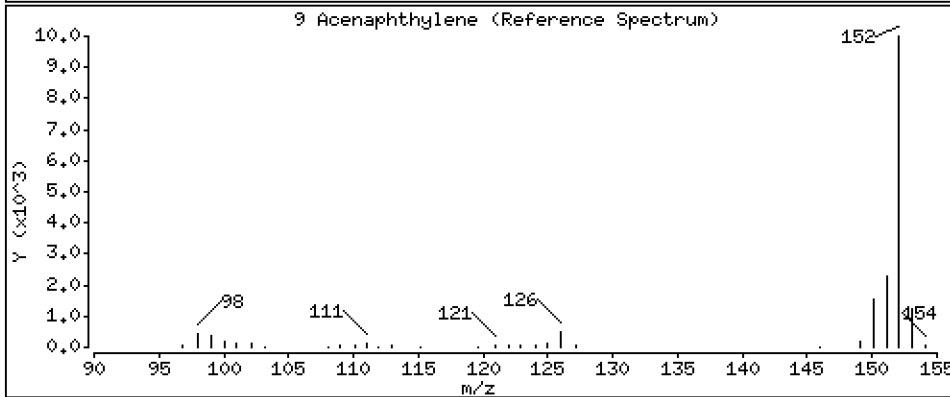
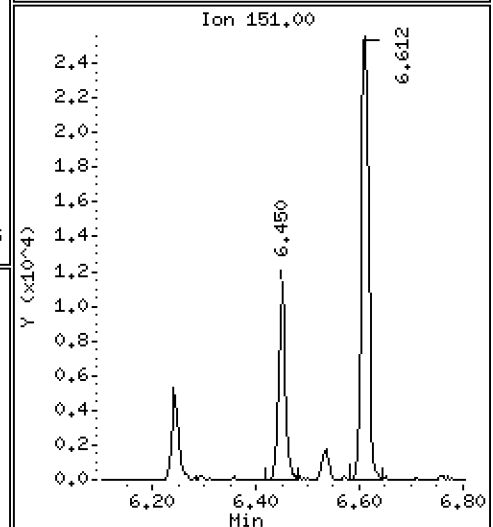
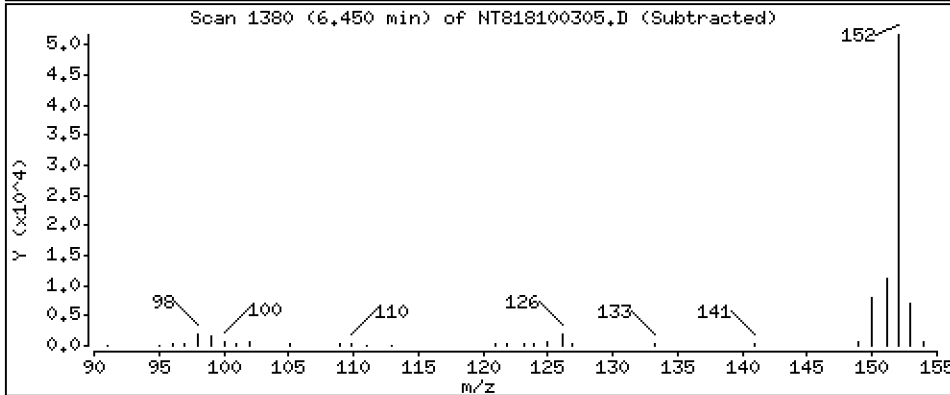
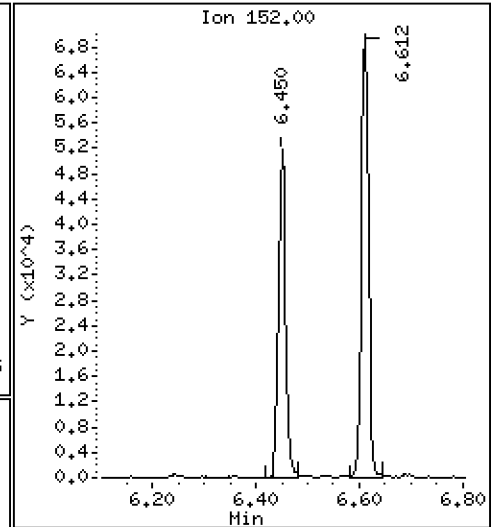
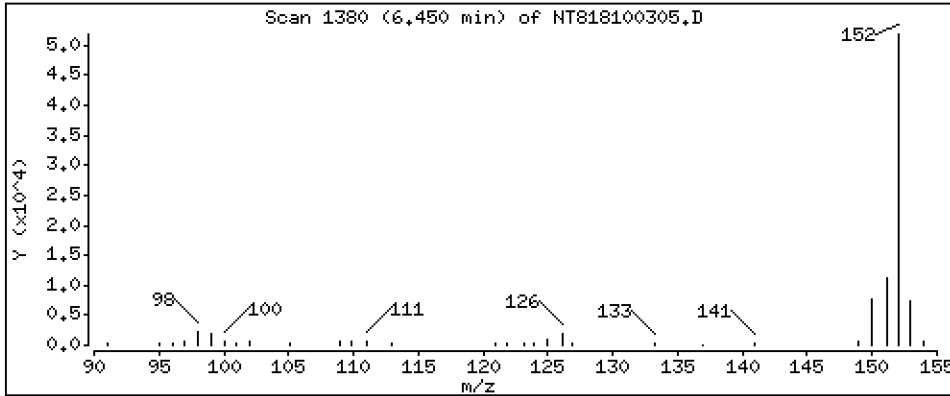
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

9 Acenaphthylene

Concentration: 0.6091 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

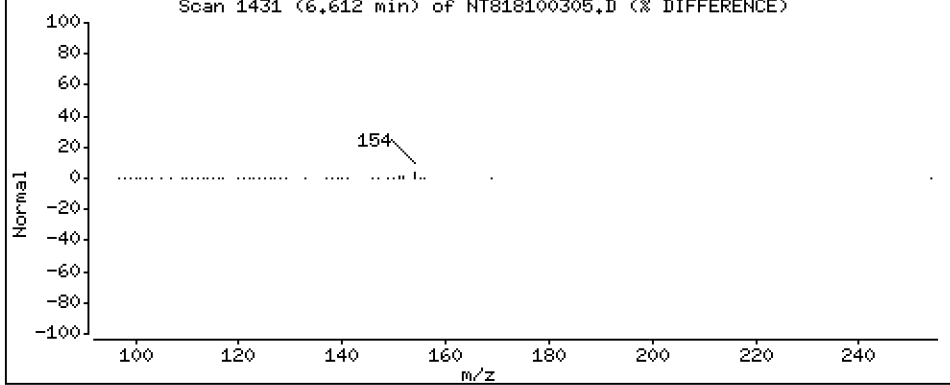
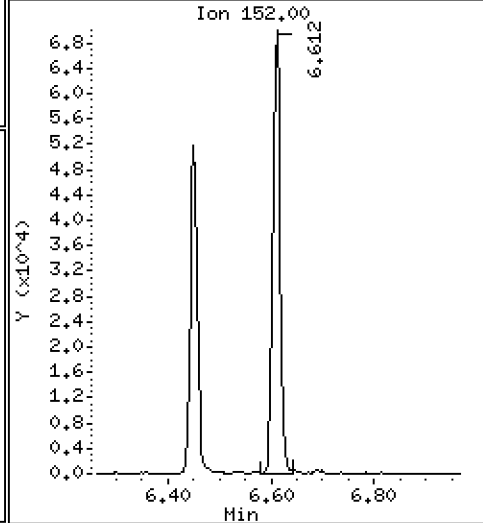
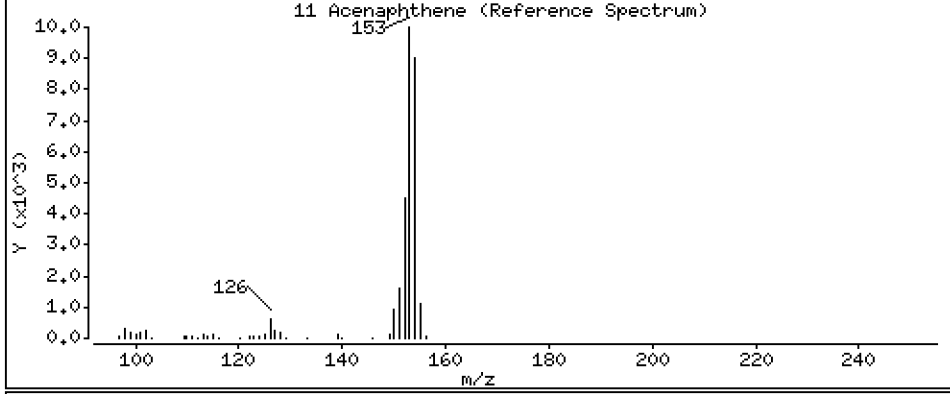
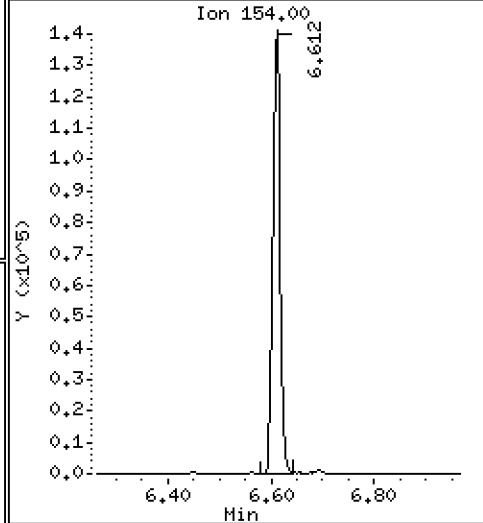
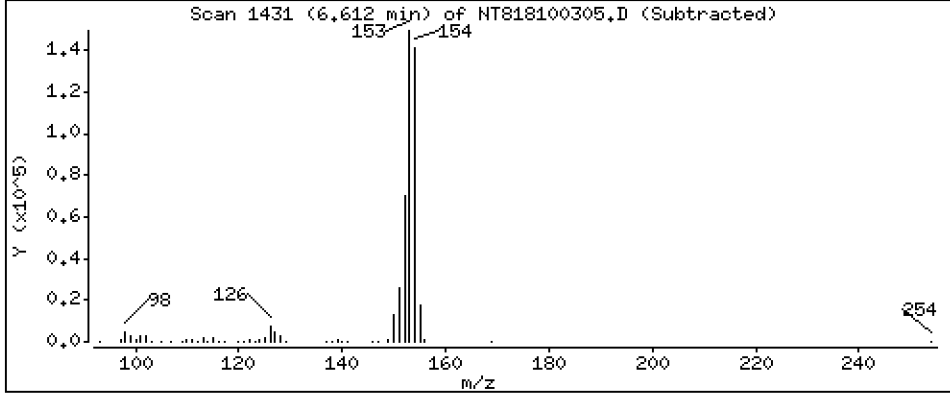
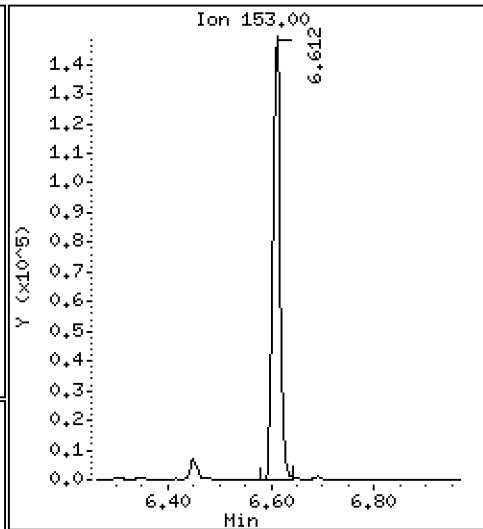
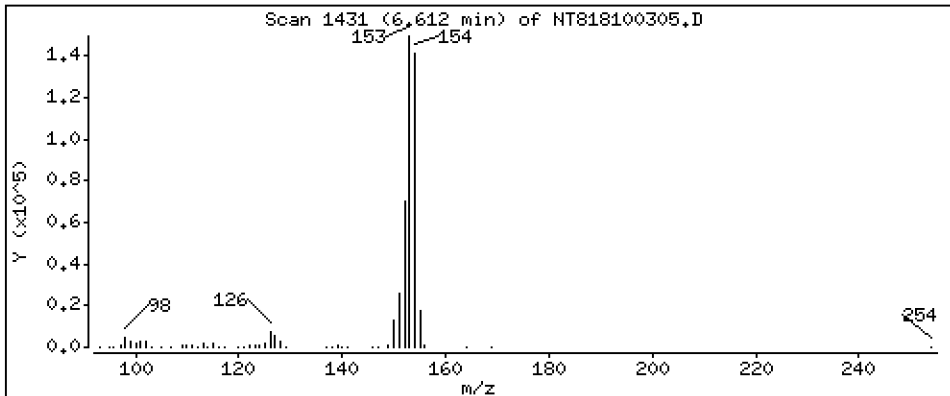
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

11 Acenaphthene

Concentration: 2,605 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

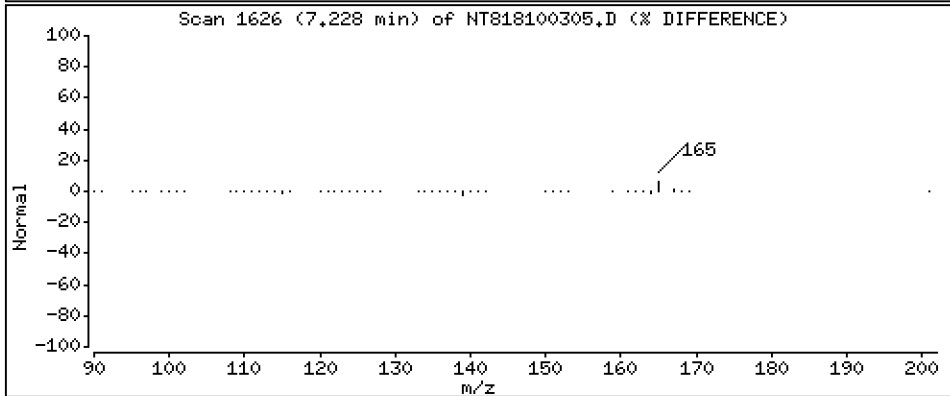
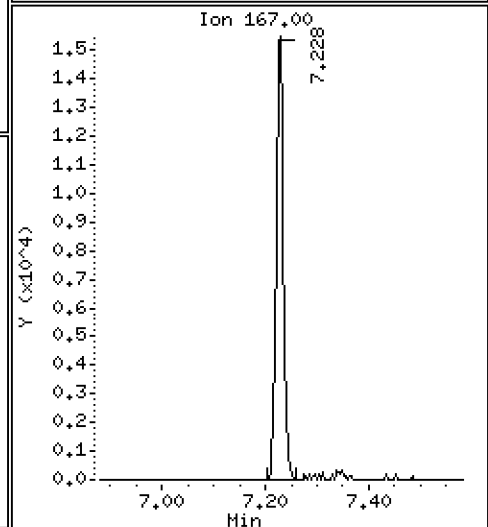
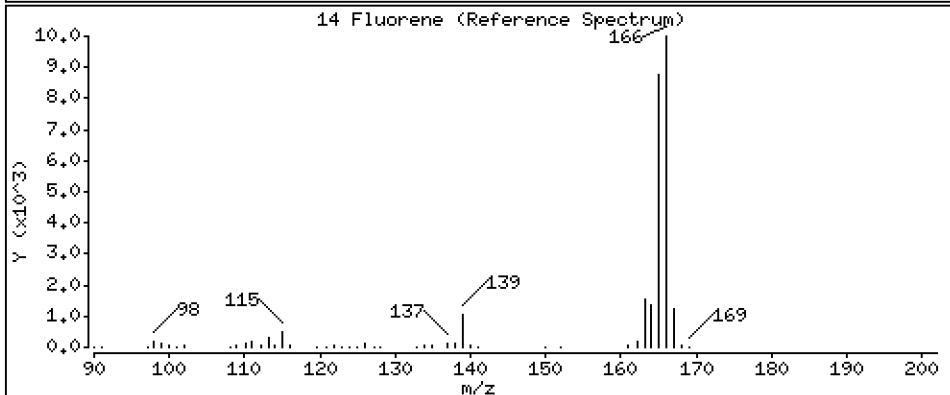
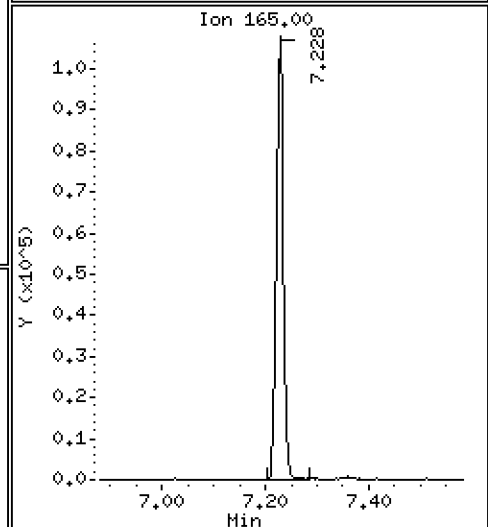
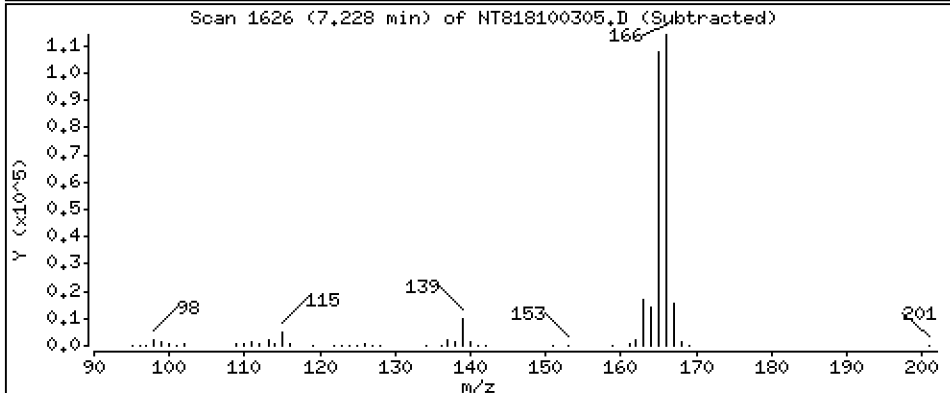
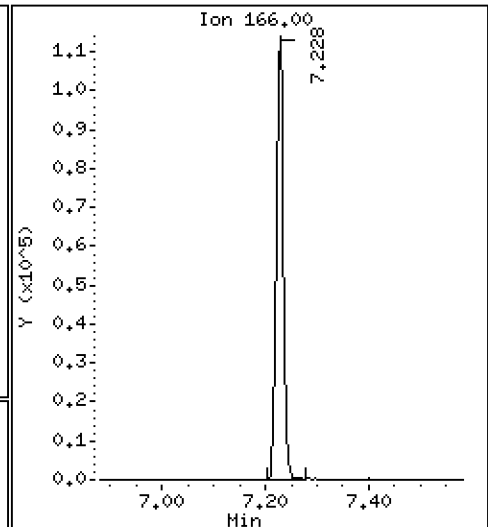
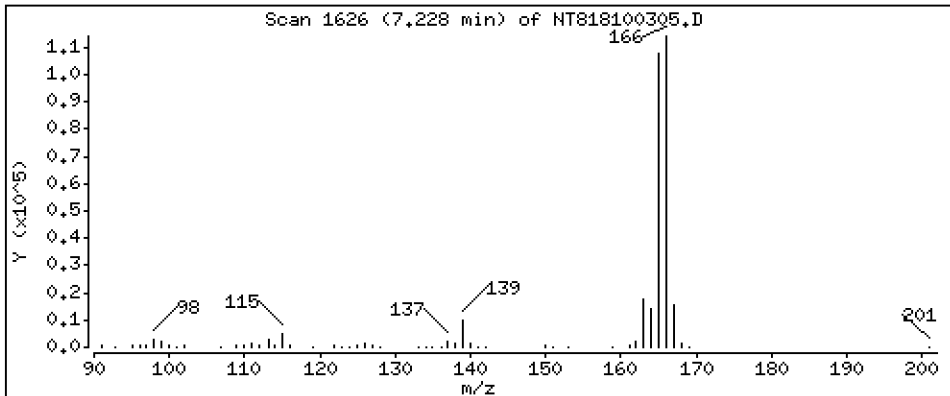
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

14 Fluorene

Concentration: 1,677 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

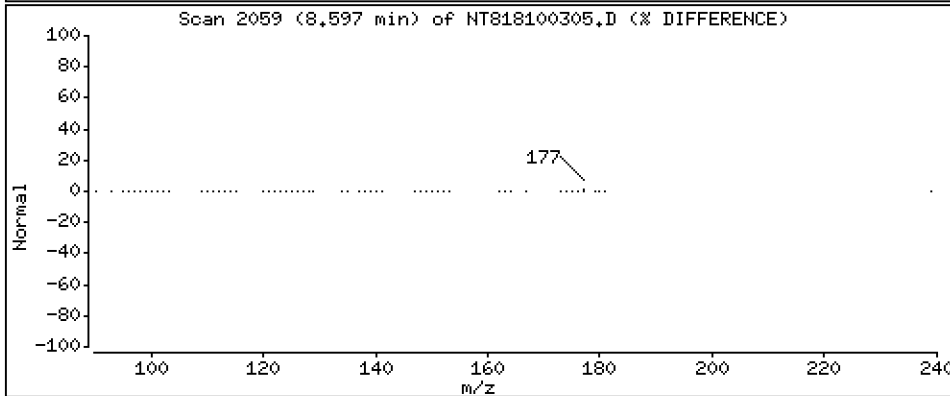
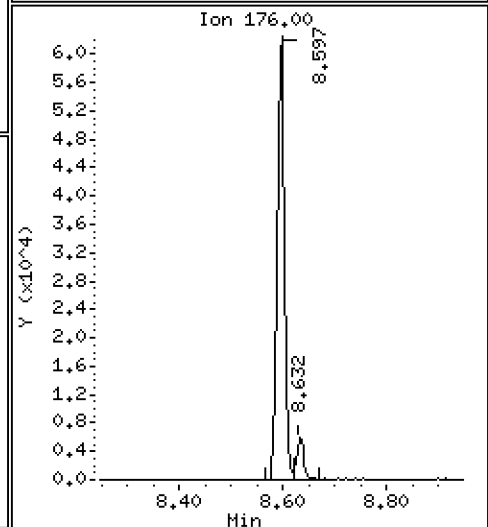
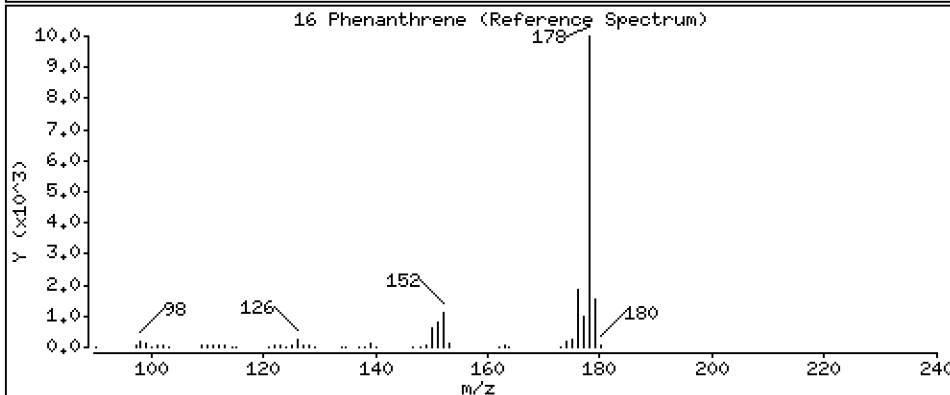
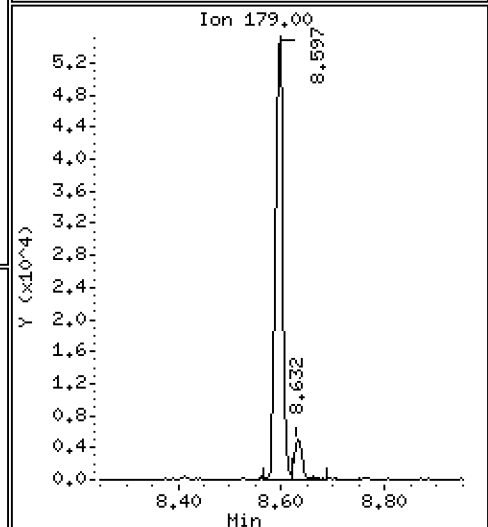
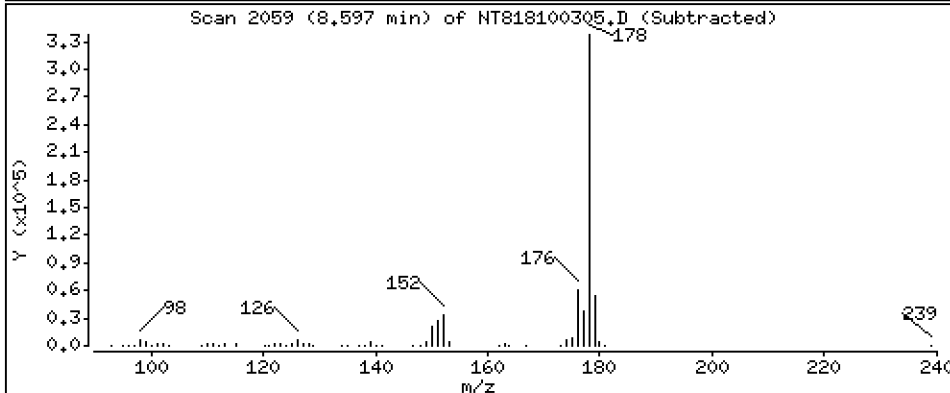
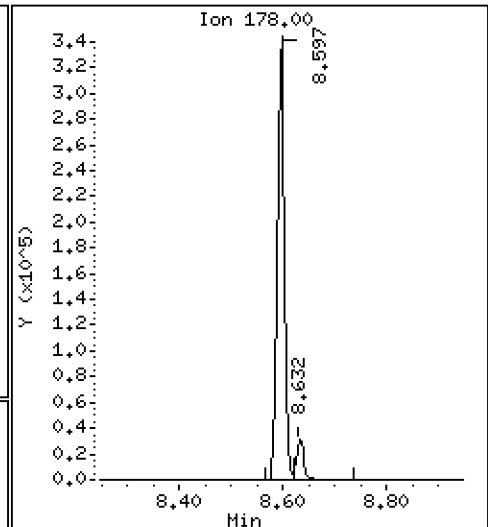
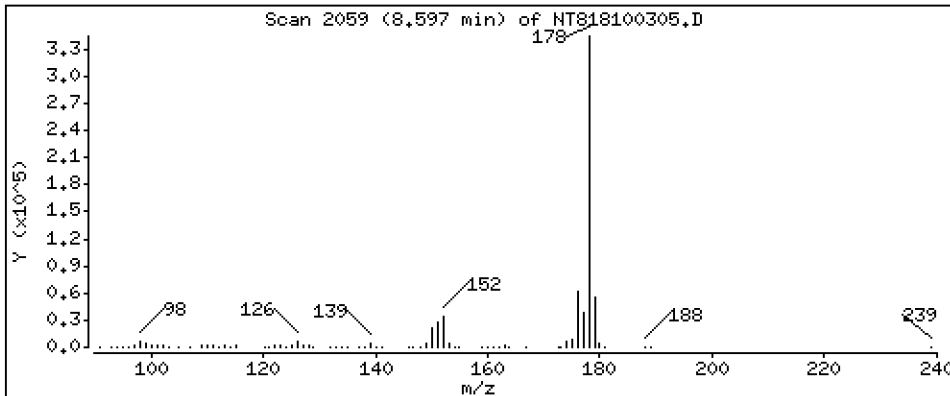
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

16 Phenanthrene

Concentration: 4,055 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

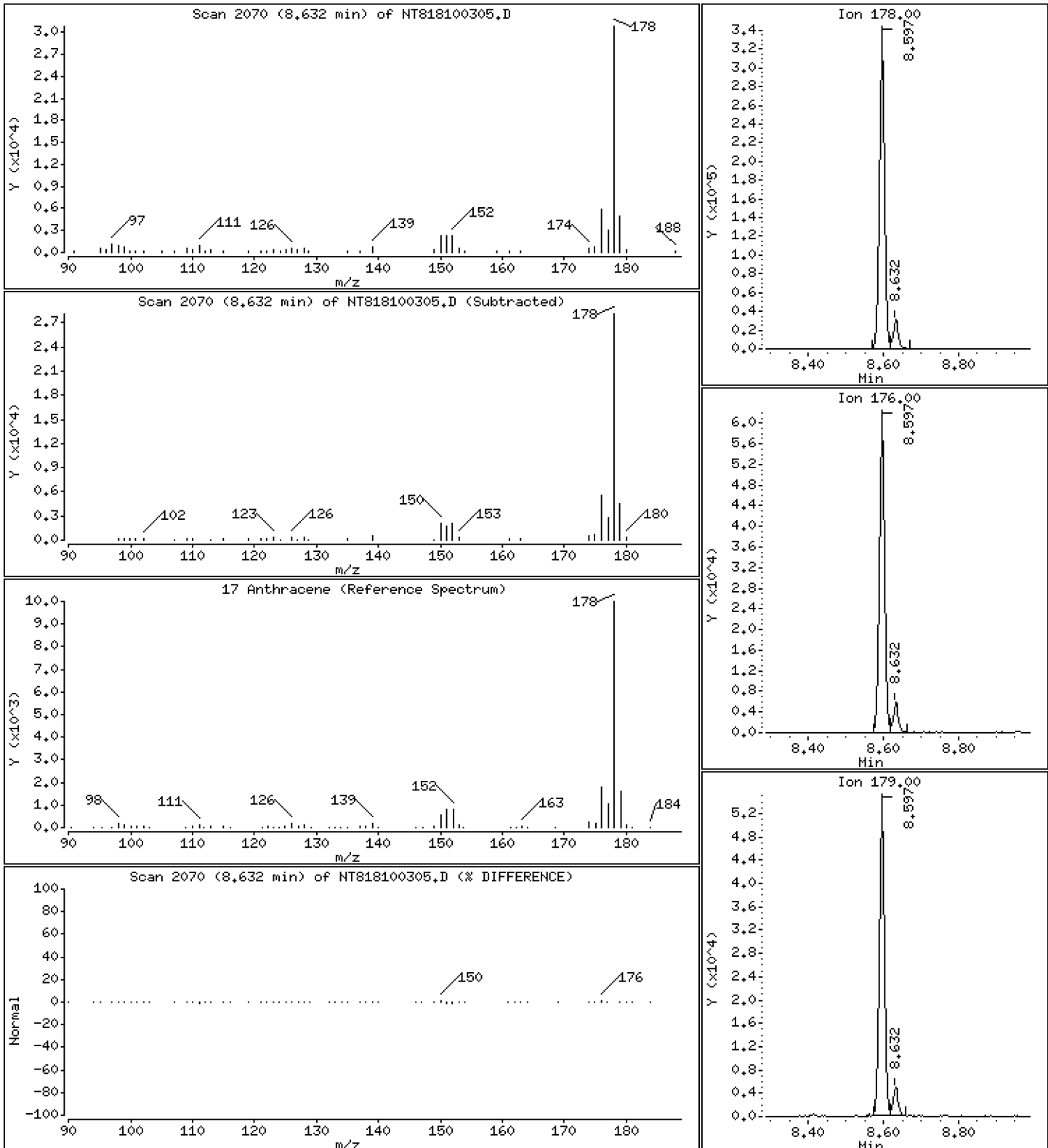
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

17 Anthracene

Concentration: 0,3695 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

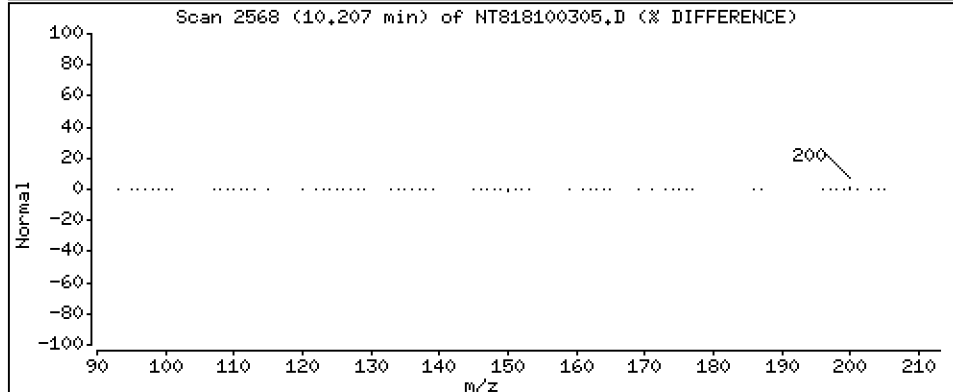
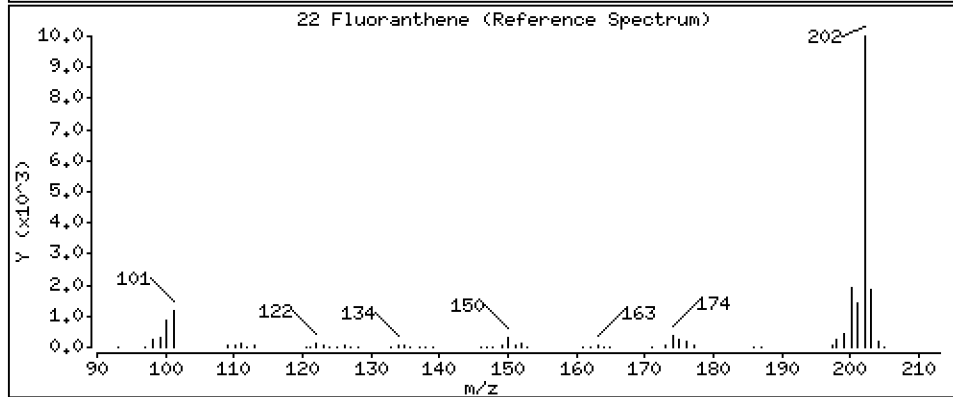
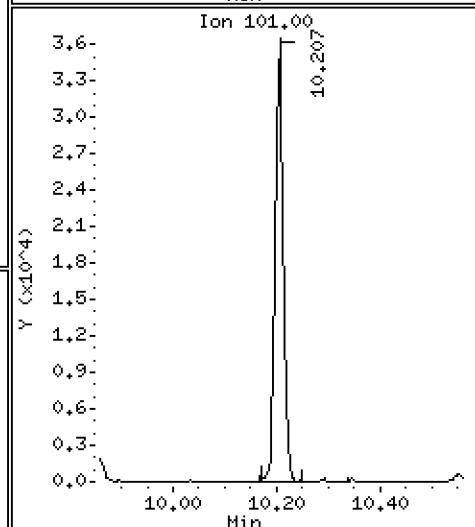
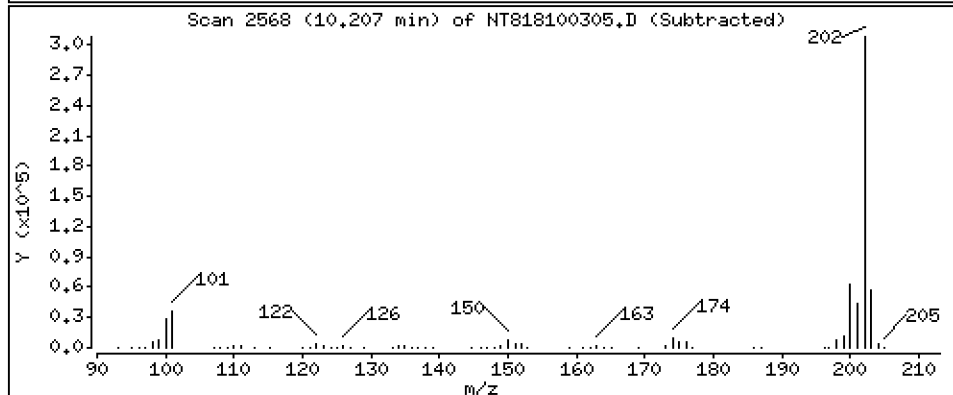
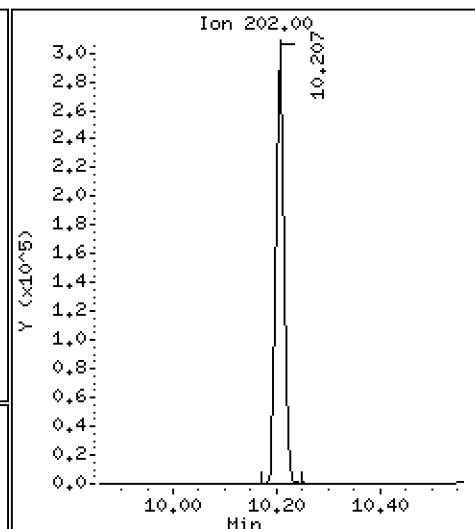
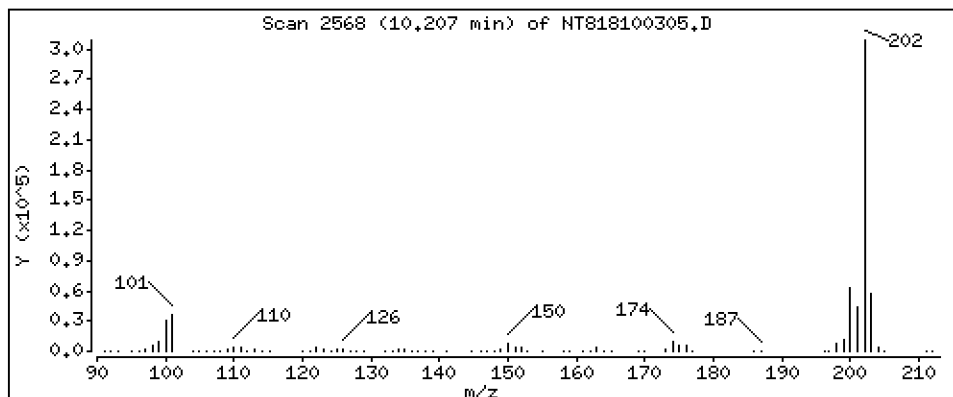
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 3,609 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

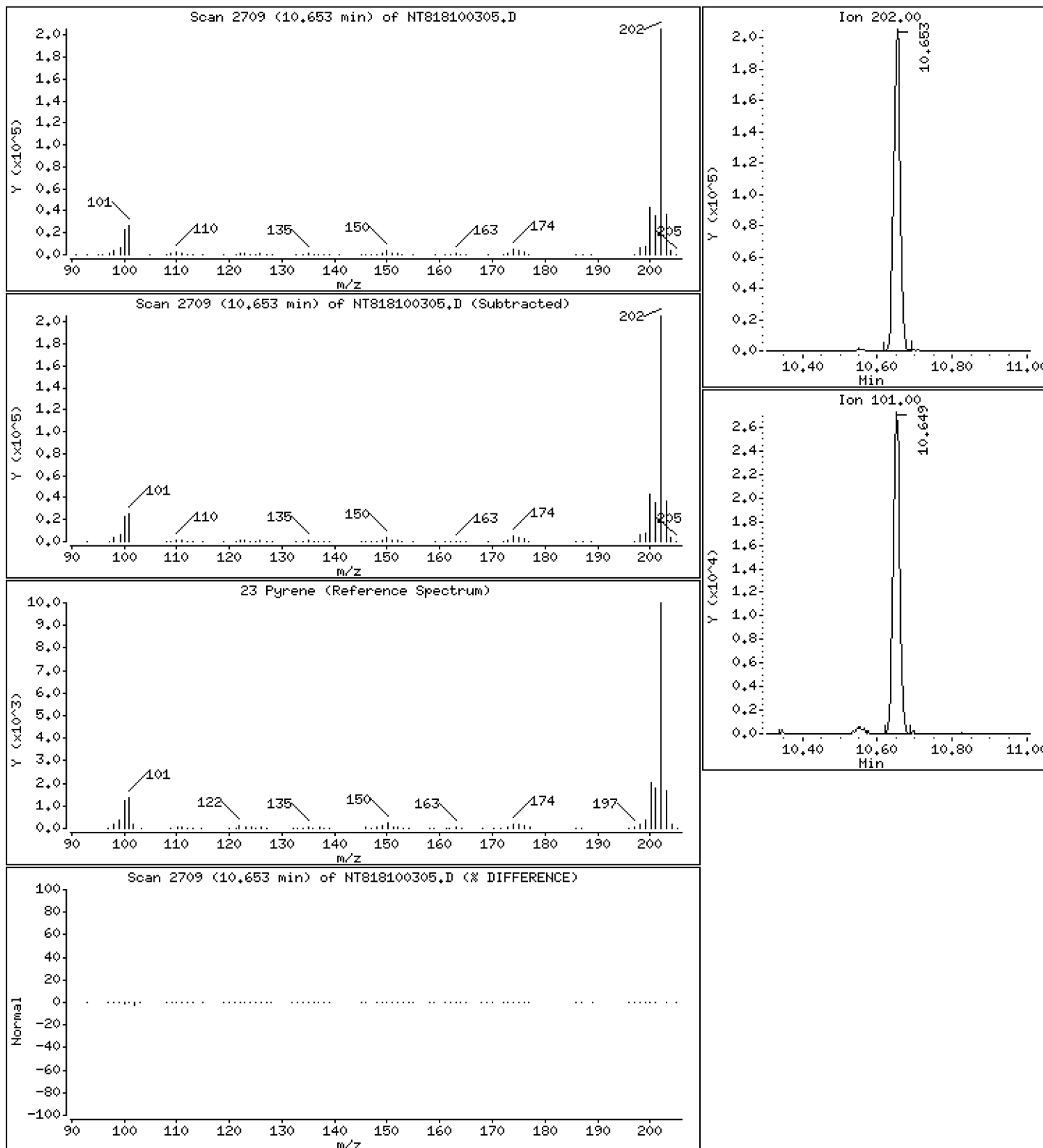
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 2,544 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

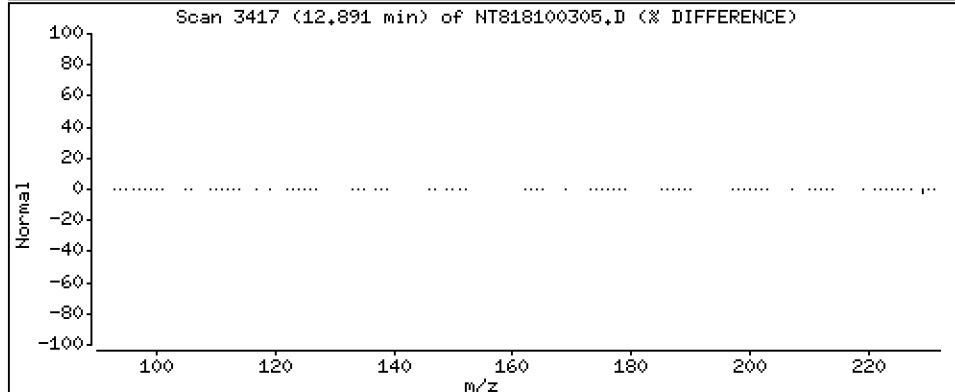
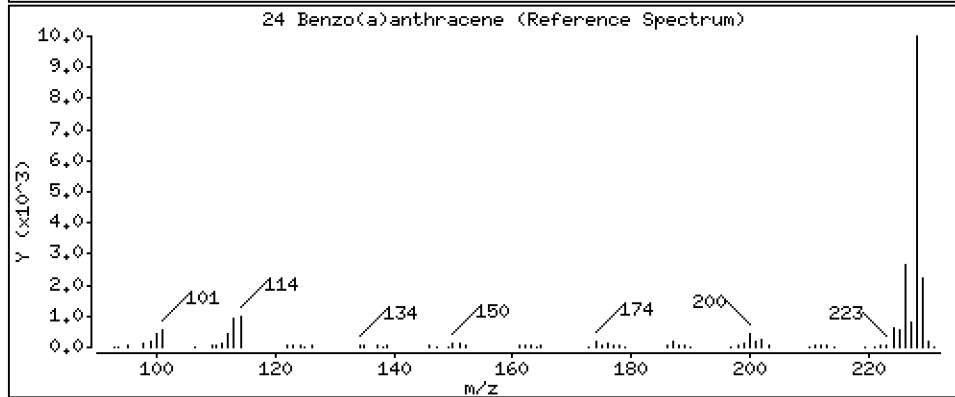
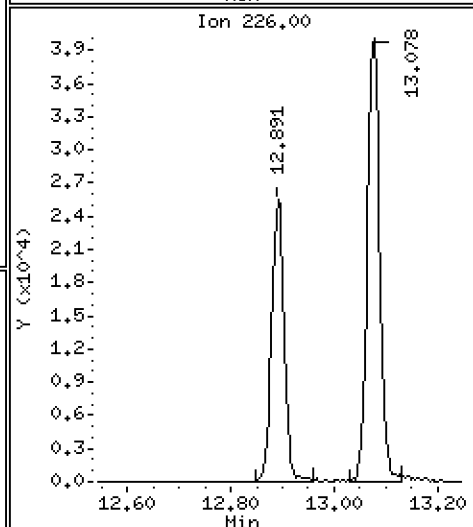
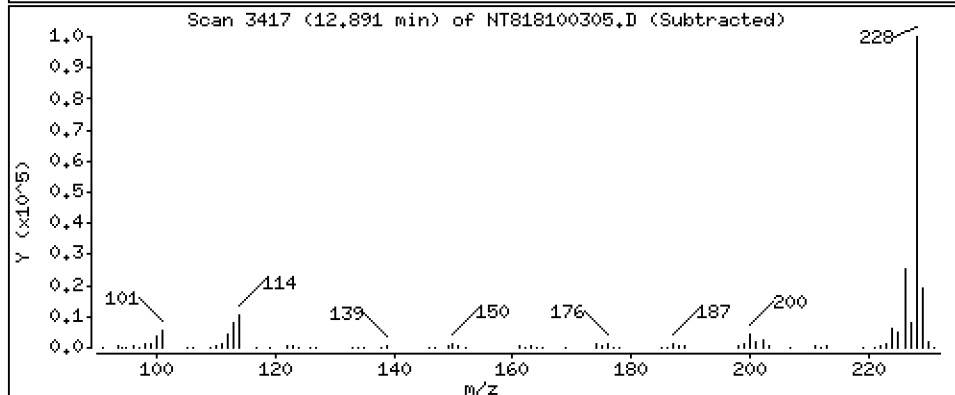
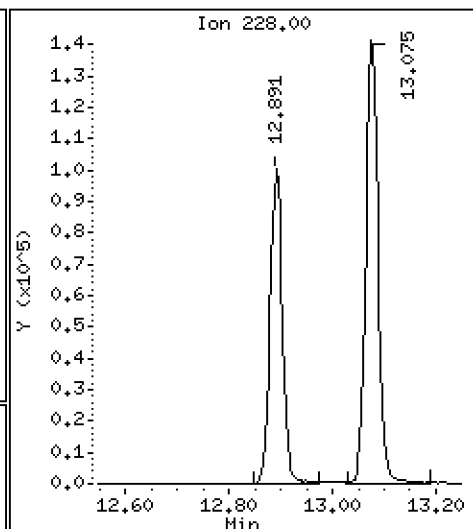
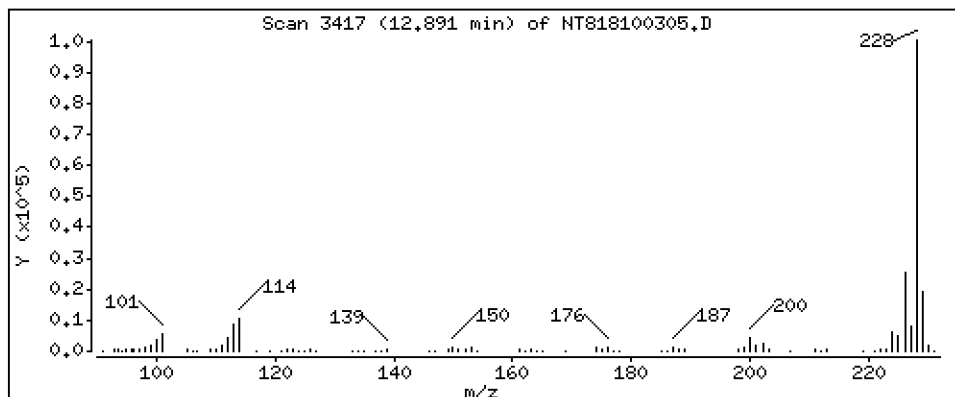
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 1,756 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

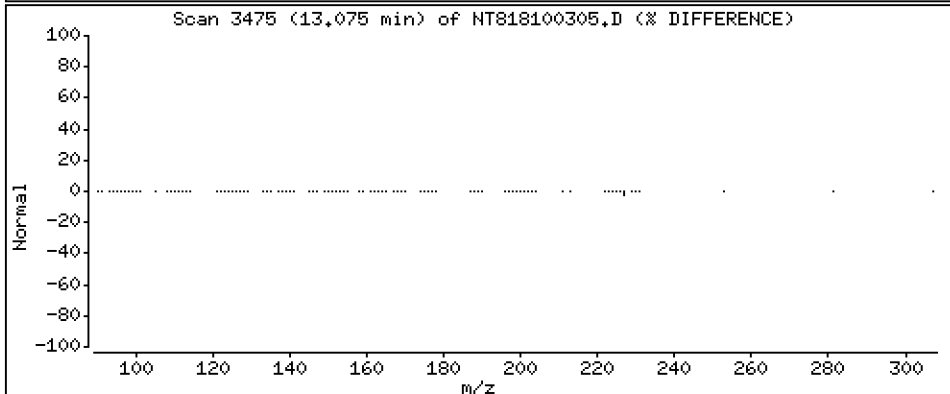
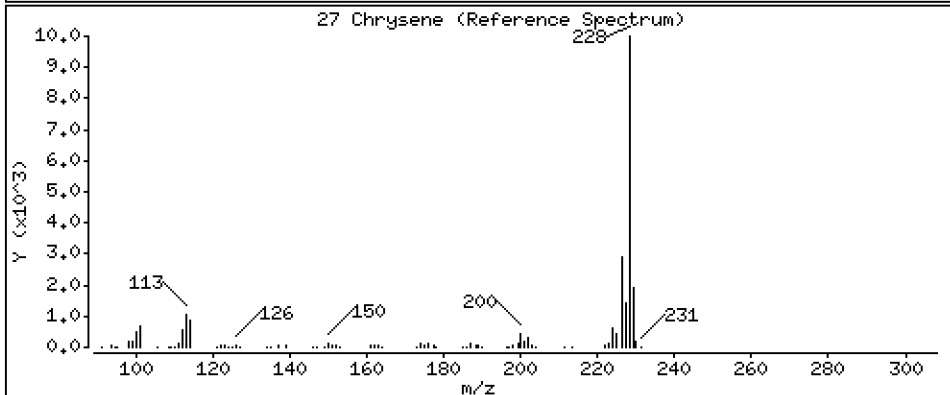
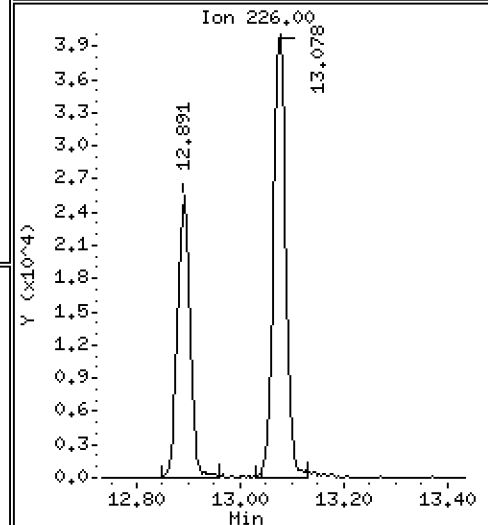
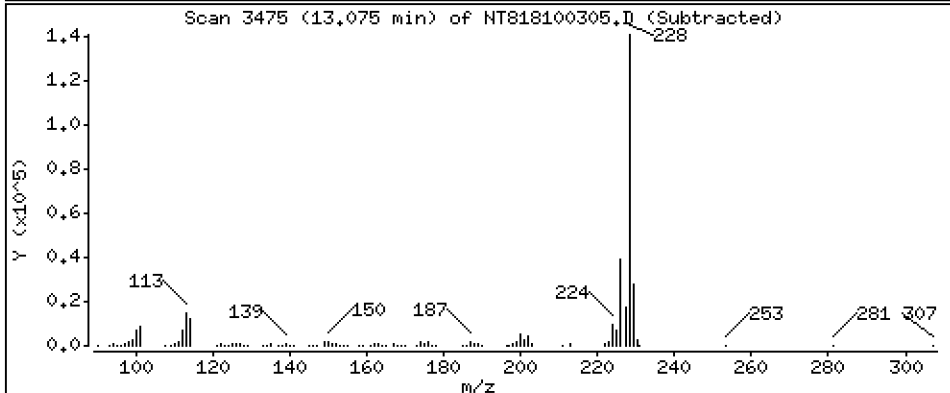
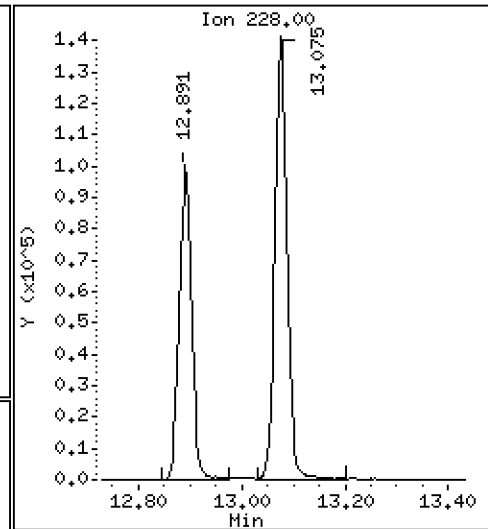
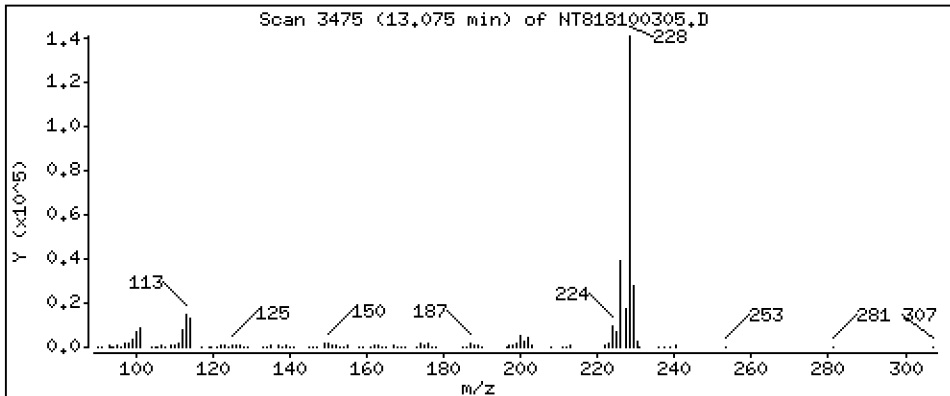
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 2,595 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

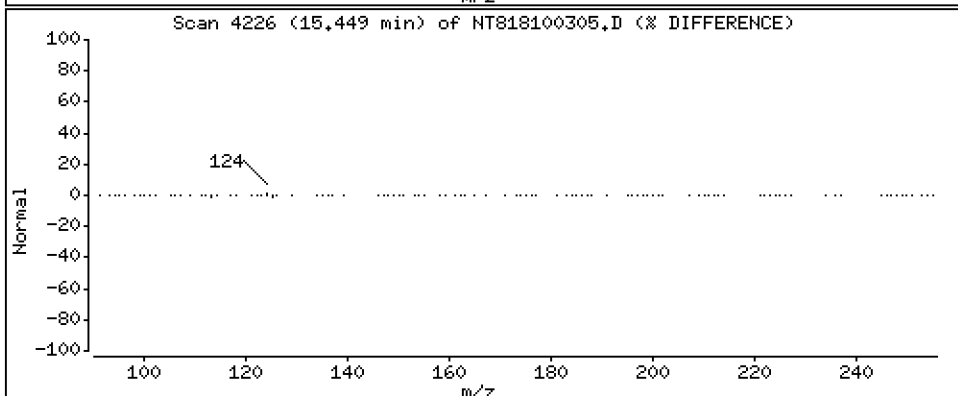
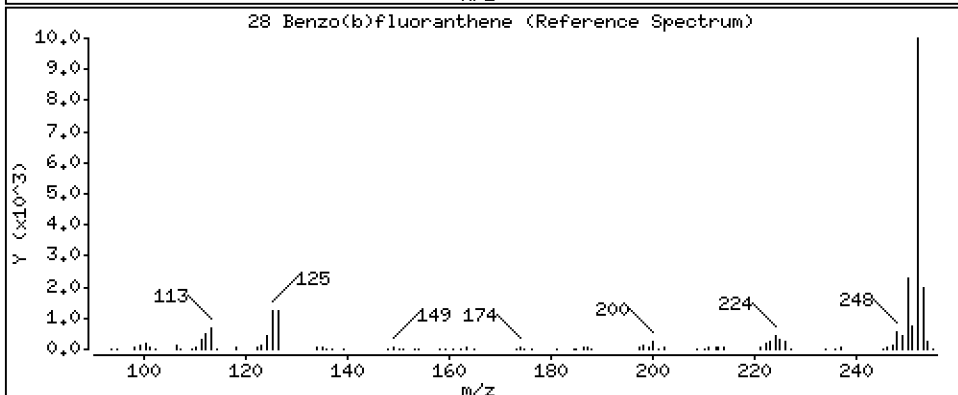
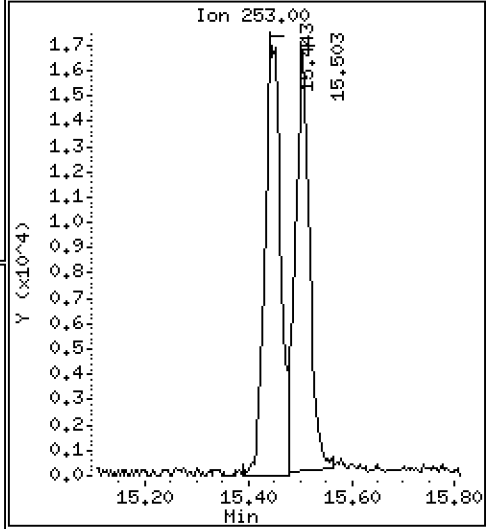
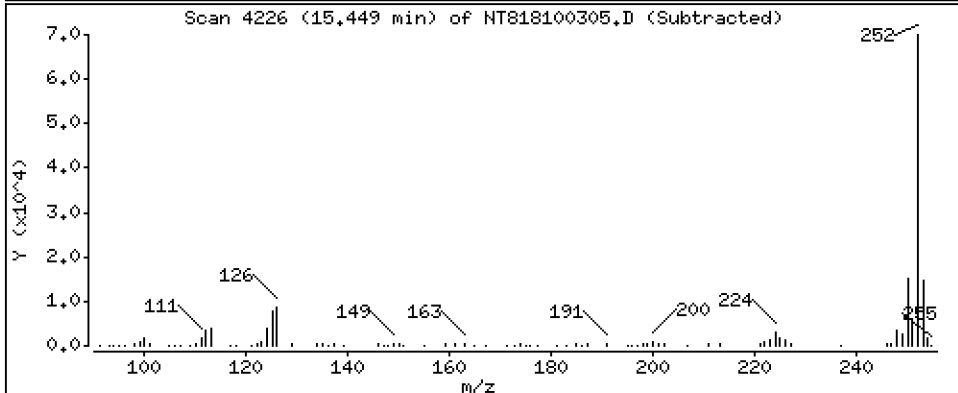
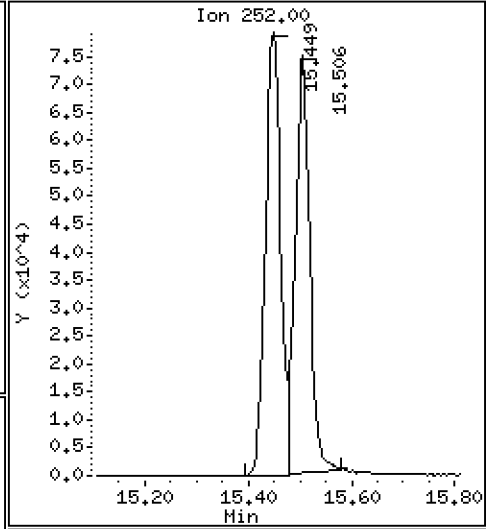
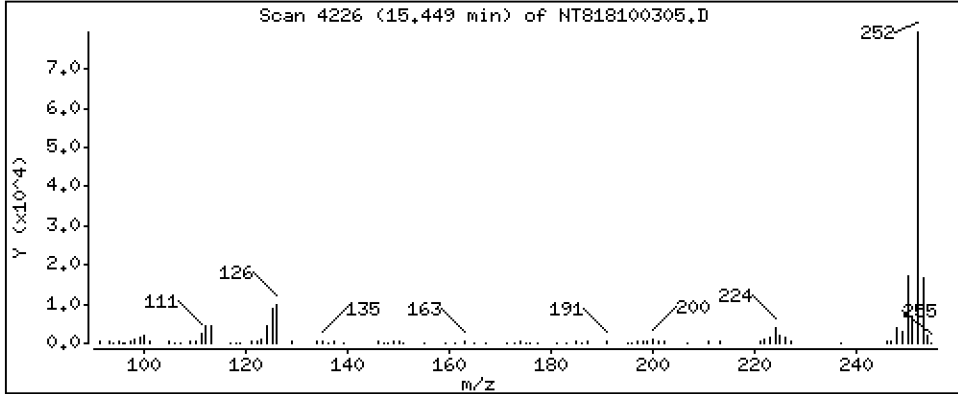
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 1,679 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

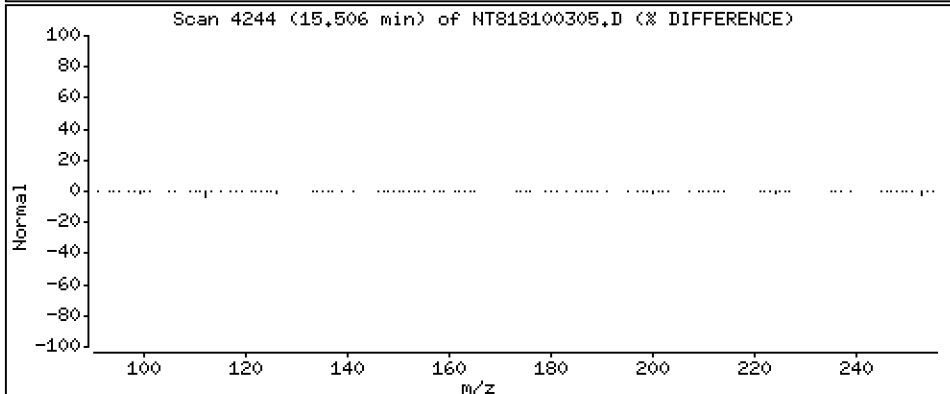
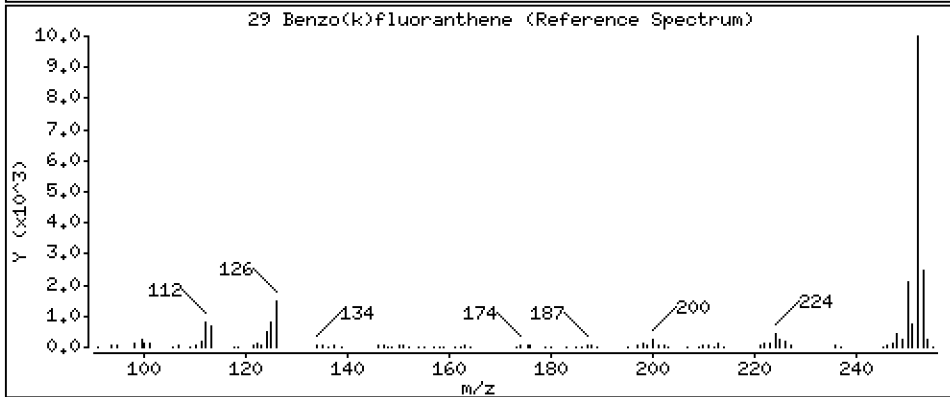
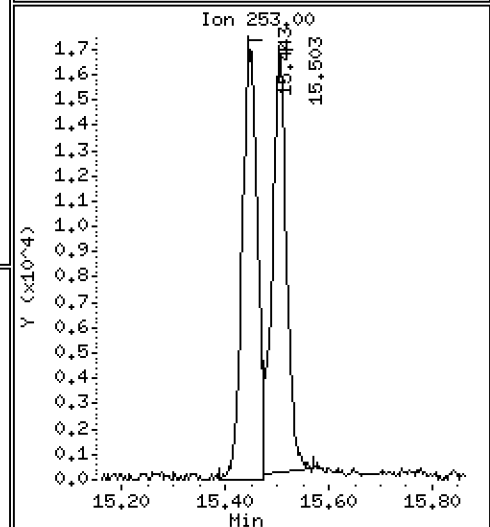
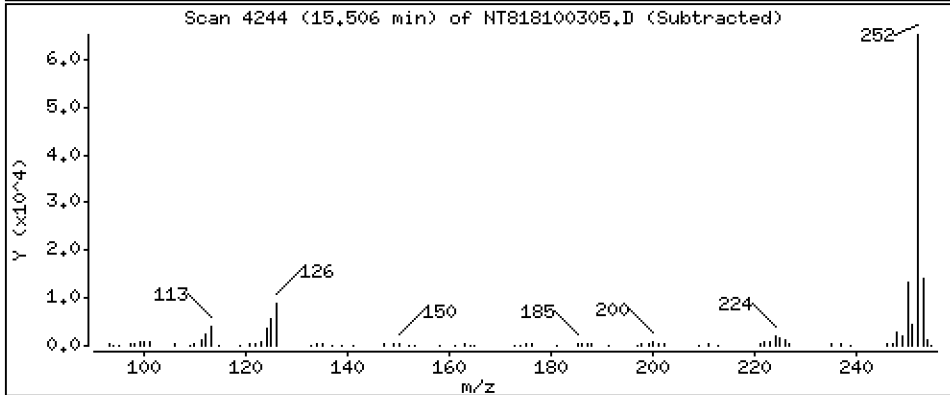
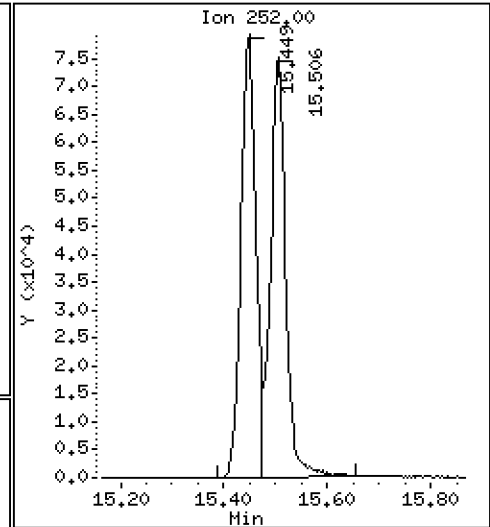
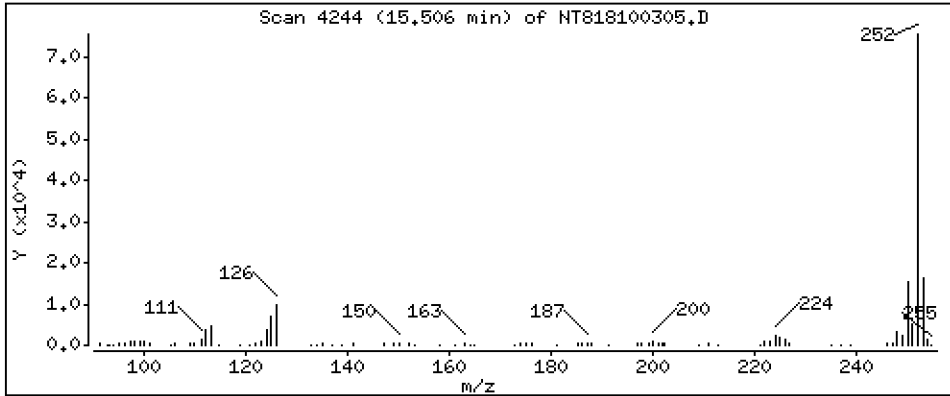
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 1,605 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

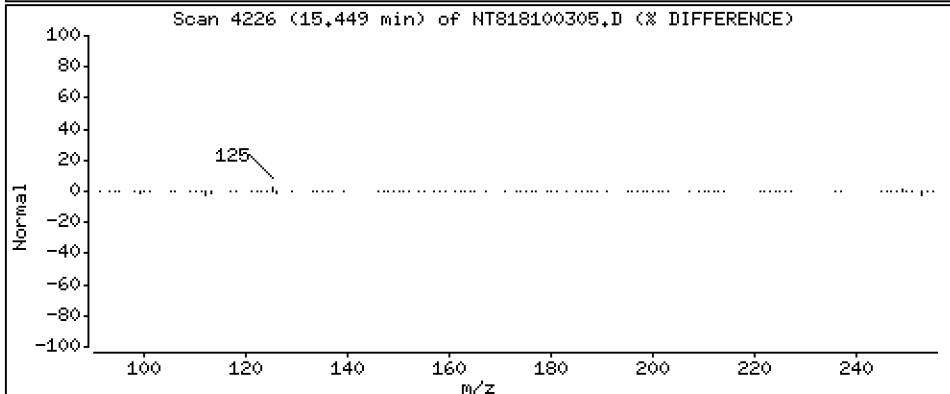
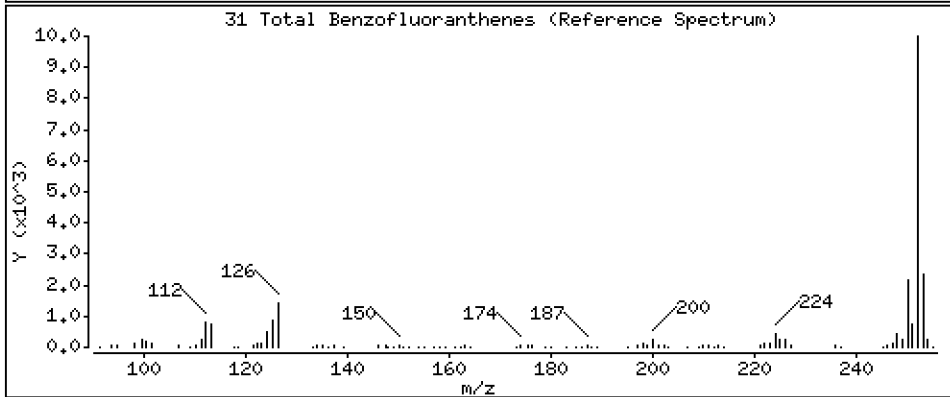
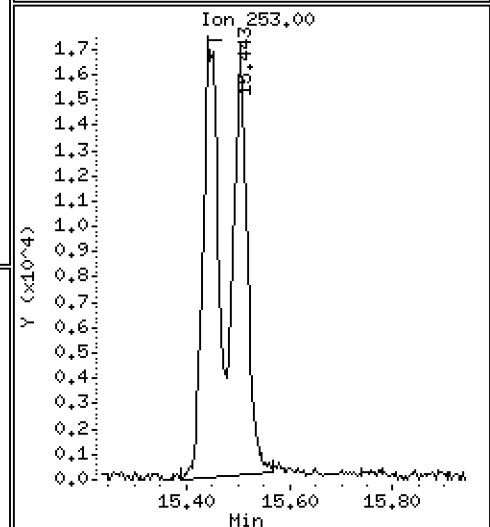
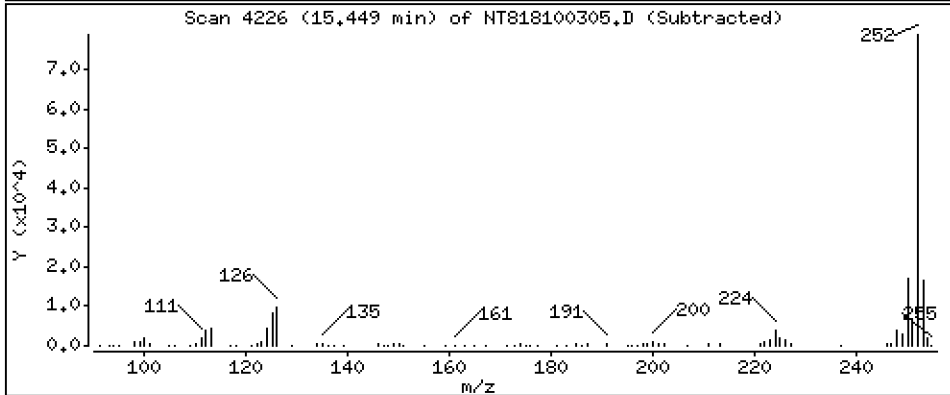
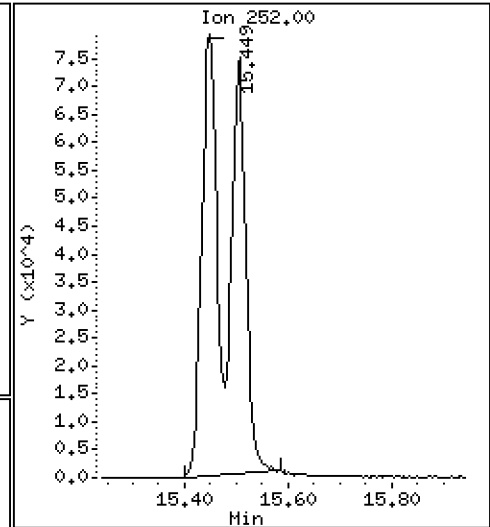
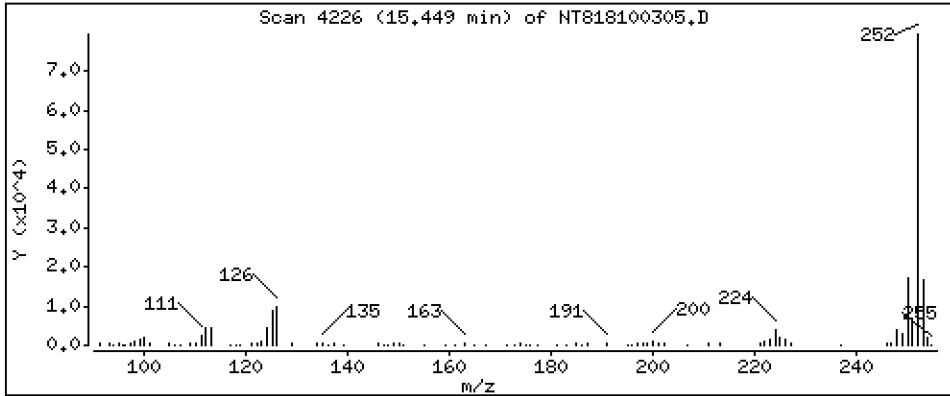
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

31 Total Benzofluoranthenes

Concentration: 3,205 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

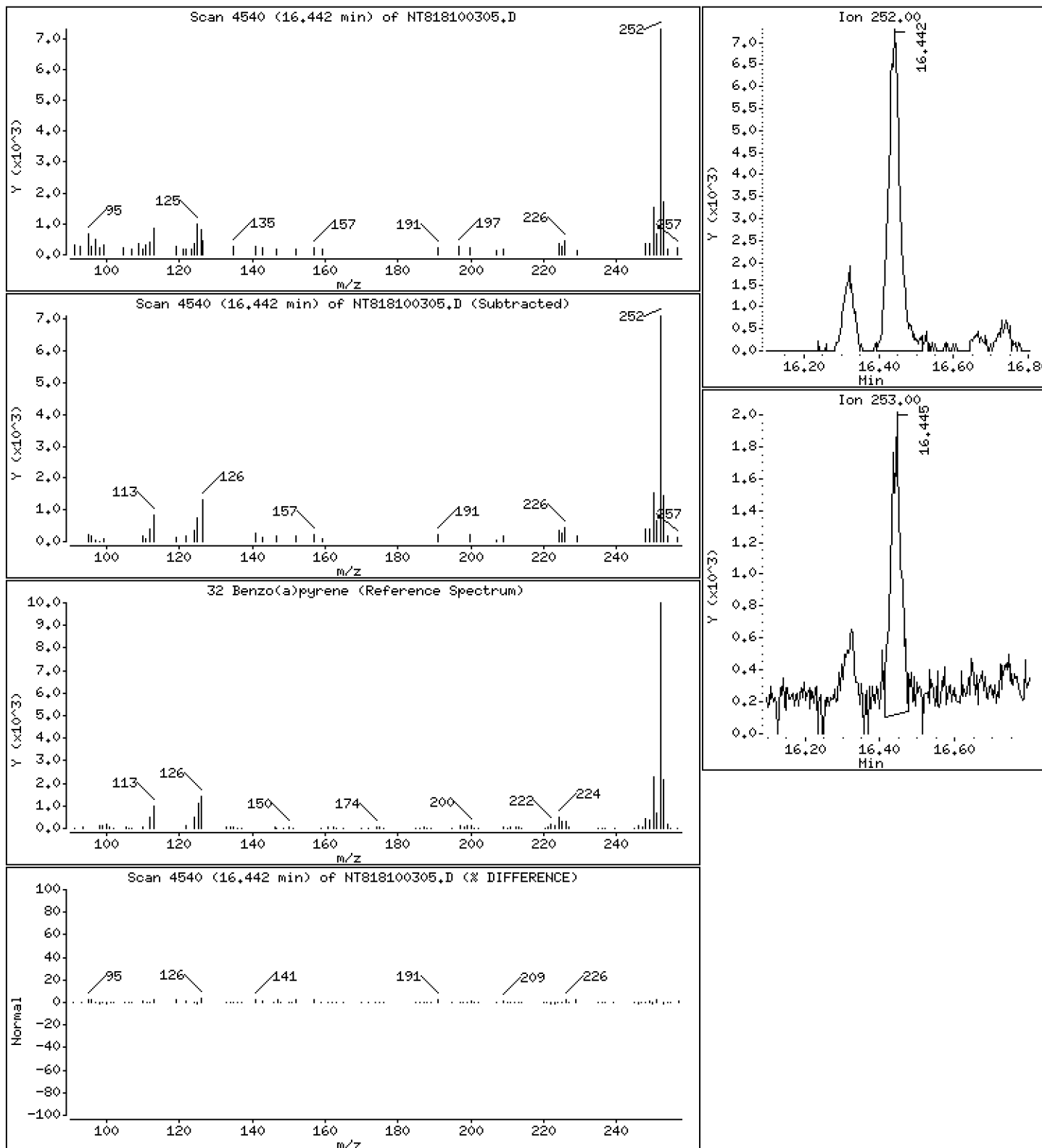
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 0,1821 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

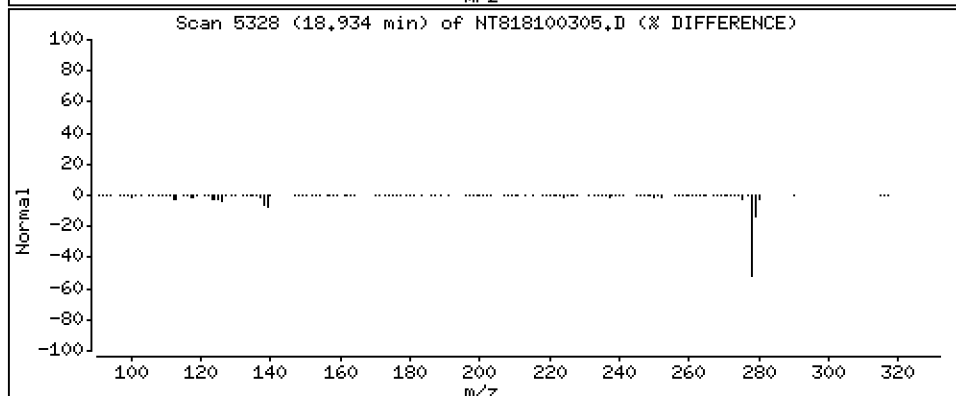
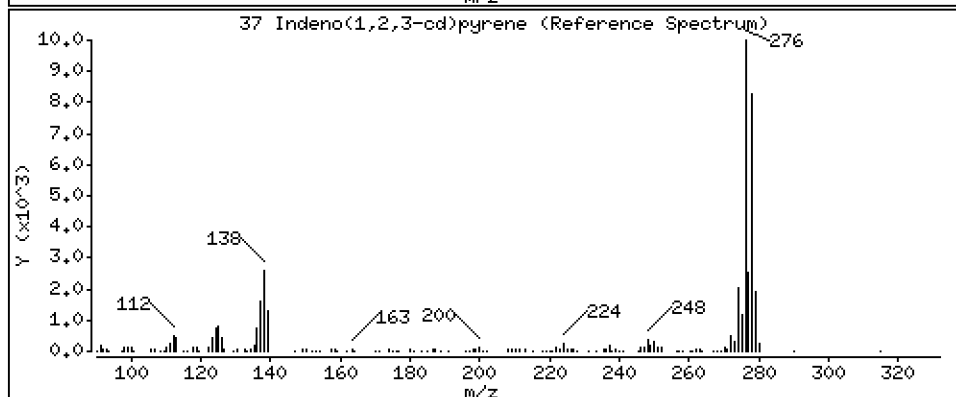
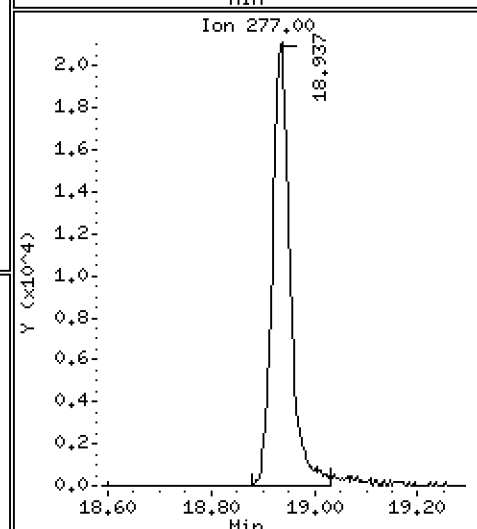
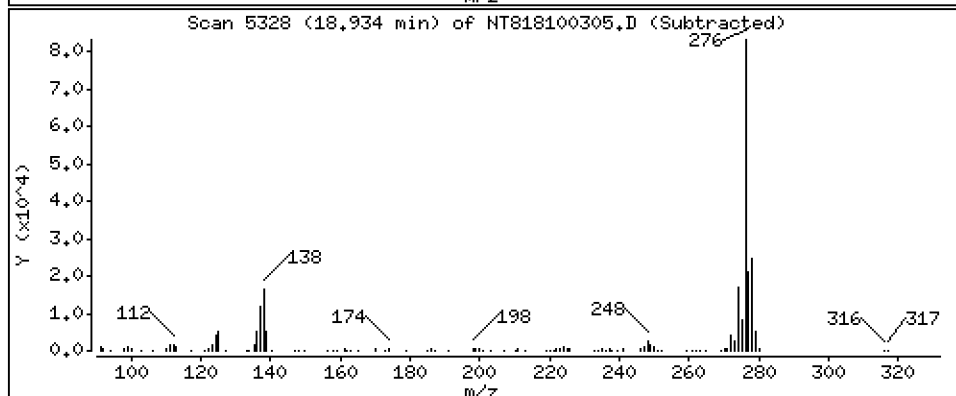
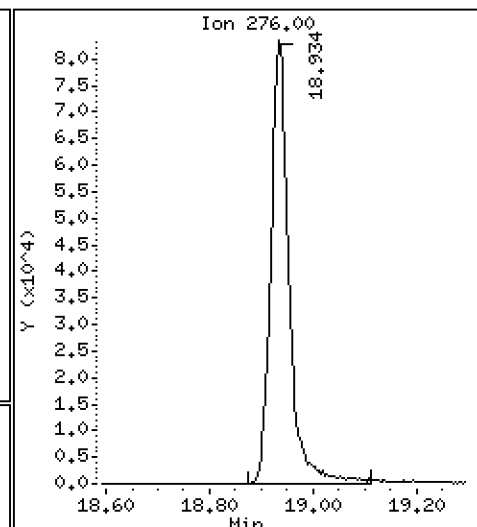
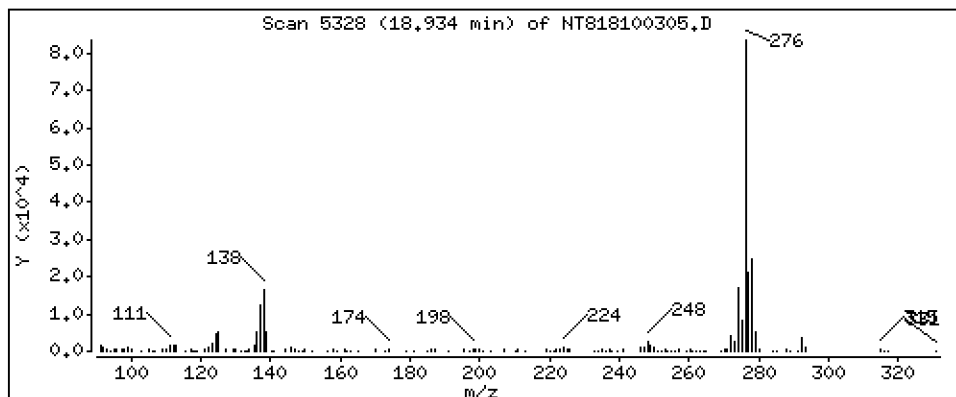
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 2,251 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

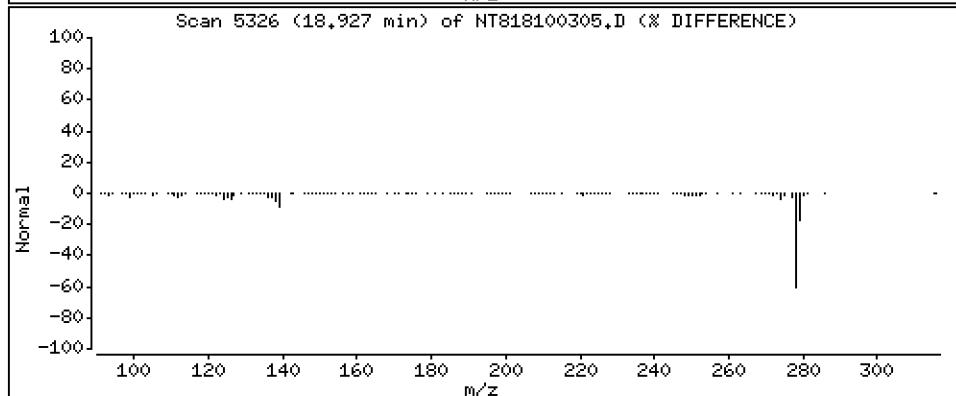
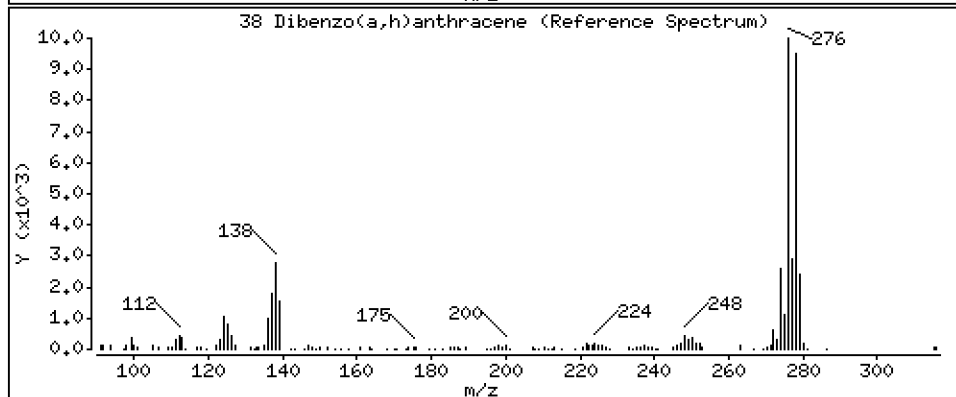
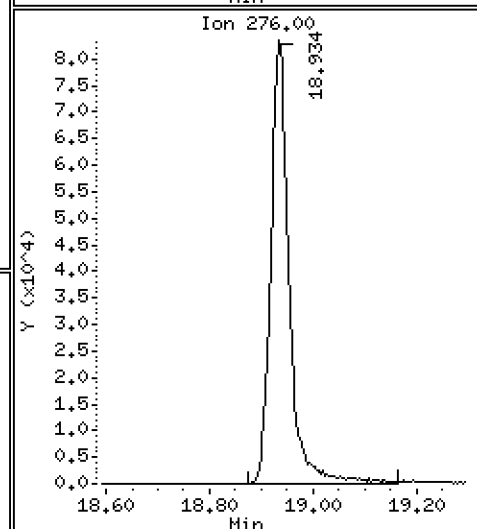
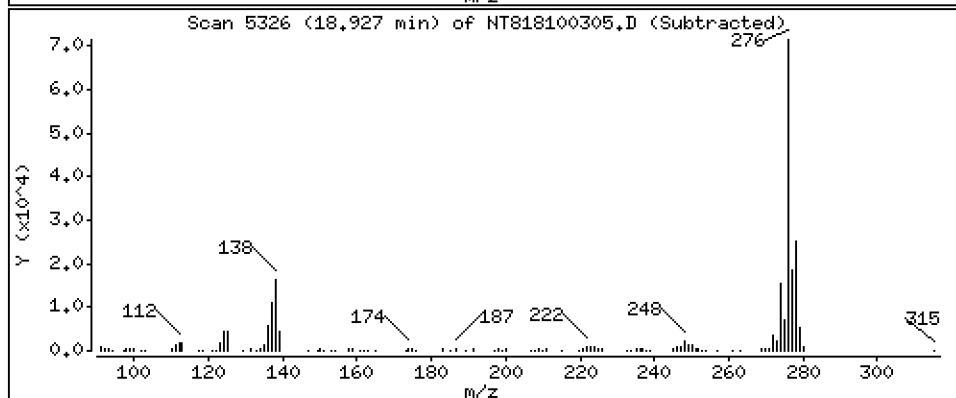
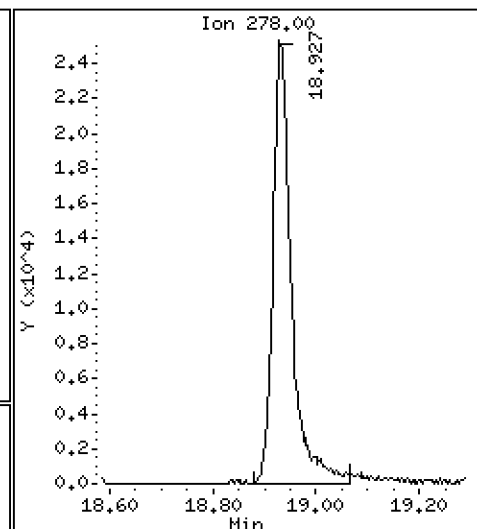
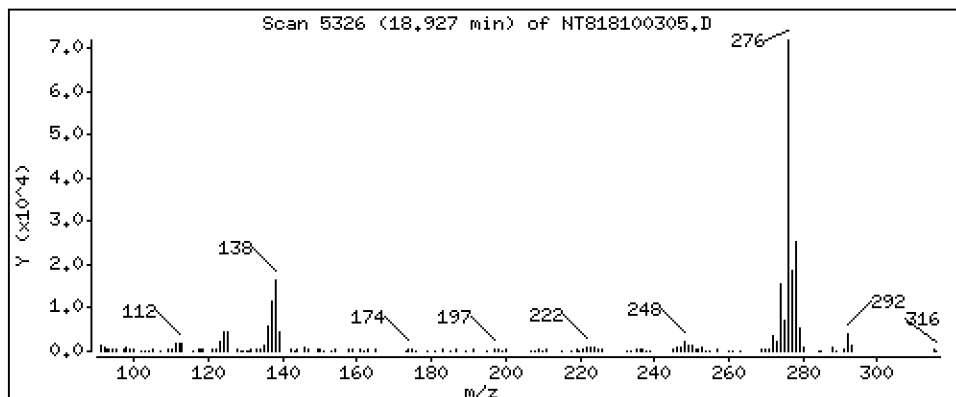
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 0,8180 ug/mL



Date : 03-OCT-2018 12:47

Client ID:

Instrument: nt8.i

Sample Info: BGI0708-SRM1,

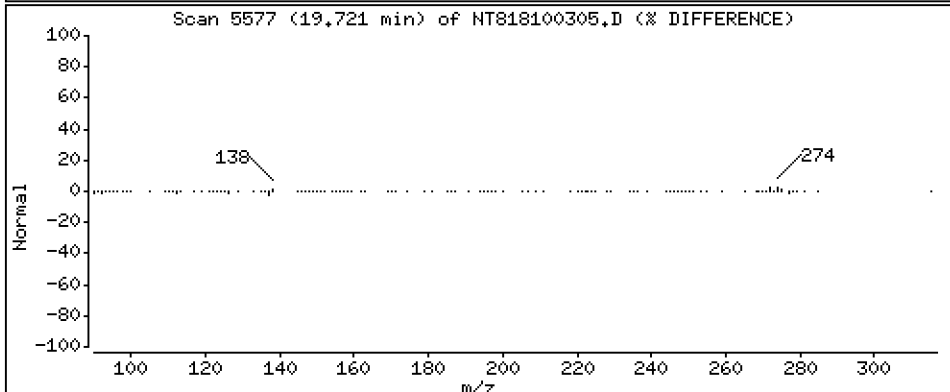
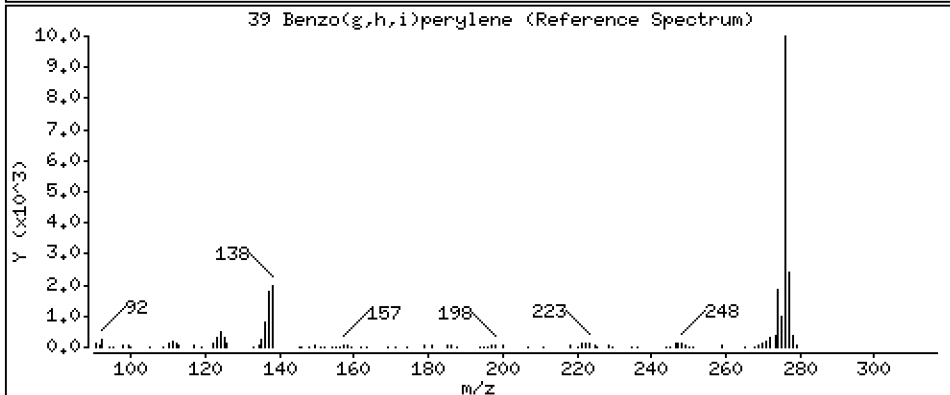
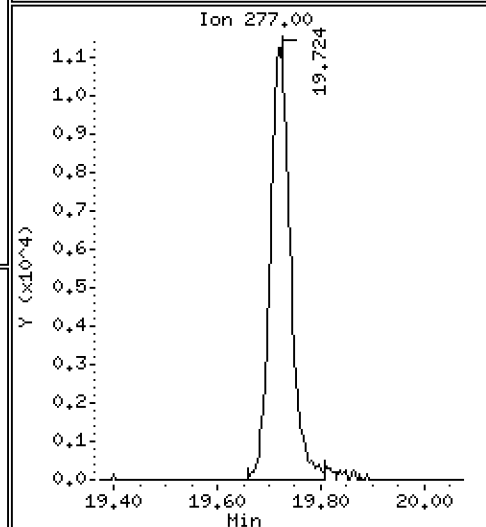
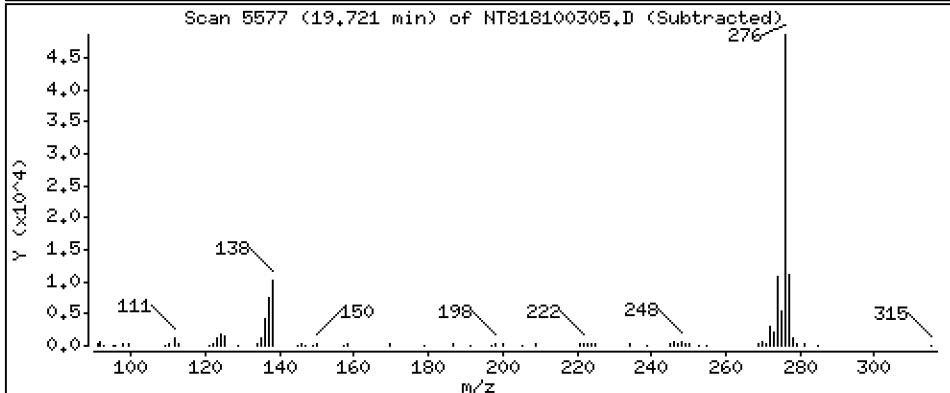
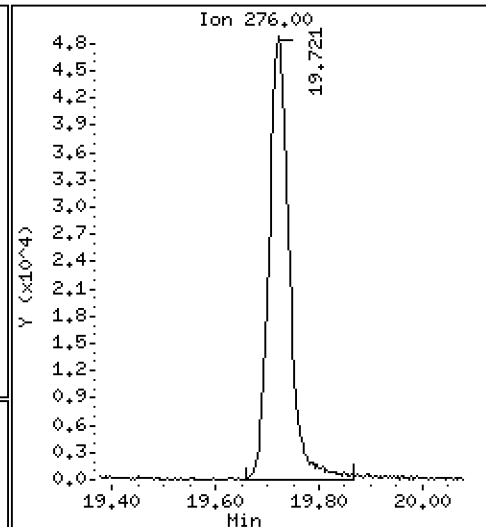
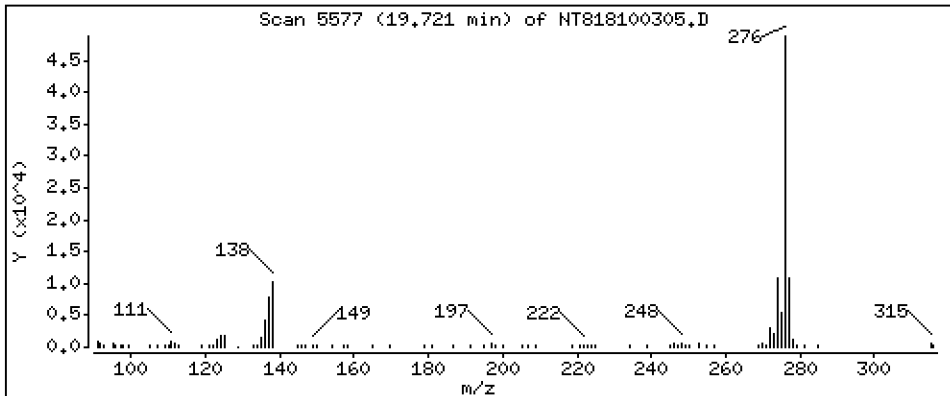
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 1,820 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100305.D
 Lab Smp Id: BGI0708-SRM1
 Inj Date : 03-OCT-2018 12:47
 Operator : JZ Inst ID: nt8.i
 Smp Info : BGI0708-SRM1,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.306	4.319	(1.000)	144754	2.00000	
2 Naphthalene	128		4.334	4.347	(1.007)	182488	2.31311	2.313
\$ 3 2-Methylnaphthalene-d10	152		5.033	5.040	(1.169)	88577	1.73027	1.730
4 2-Methylnaphthalene	141		5.081	5.087	(1.180)	3039	0.06870	0.06870
5 1-methylnaphthalene	141		5.274	5.280	(1.225)	4529	0.09944	0.09944
9 Acenaphthylene	152		6.450	6.453	(0.983)	50522	0.60905	0.6091
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	78207	2.00000	
11 Acenaphthene	153		6.611	6.614	(1.007)	145681	2.60530	2.605
12 Dibenzofuran	168		Compound Not Detected.					
14 Fluorene	166		7.228	7.231	(1.101)	107613	1.67737	1.677
* 15 Phenanthrene-d10	188		8.562	8.565	(1.000)	151282	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	330876	4.05548	4.055
17 Anthracene	178		8.632	8.638	(1.008)	29516	0.36951	0.3695
22 Fluoranthene	202		10.206	10.209	(1.192)	342376	3.60936	3.609
\$ 21 Fluoranthene-d10	212		10.175	10.178	(1.188)	212246	2.22154	2.222
23 Pyrene	202		10.652	10.655	(0.819)	249520	2.54448	2.544
24 Benzo(a)anthracene	228		12.891	12.897	(0.991)	166549	1.75643	1.756
* 25 Chrysene-d12	240		13.011	13.014	(1.000)	164809	2.00000	
27 Chrysene	228		13.074	13.080	(1.005)	232560	2.59489	2.595
28 Benzo(b)fluoranthene	252		15.449	15.458	(0.927)	162725	1.67947	1.679
29 Benzo(k)fluoranthene	252		15.506	15.515	(0.930)	153984	1.60512	1.605
30 Benzo(j)fluoranthene	252		Compound Not Detected.					
31 Total Benzofluoranthenes	252		15.449	15.591	(0.927)	301353	3.20453	3.205 (M)
32 Benzo(a)pyrene	252		16.442	16.451	(0.986)	15914	0.18208	0.1821
* 33 Perylene-d12	264		16.669	16.672	(1.000)	155373	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.933	18.943	(1.136)	207224	2.25060	2.251
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.854	18.861	(1.131)	198875	2.85326	2.853
38 Dibenzo(a,h)anthracene	278		18.927	18.936	(1.135)	63433	0.81801	0.8180
39 Benzo(g,h,i)perylene	276		19.721	19.727	(1.183)	135241	1.82043	1.820
35 Perylene	252		Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-OCT-2018
 Lab File ID: NT818100305.D Calibration Time: 11:20
 Lab Smp Id: BGI0708-SRM1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	144754	9.76
10 Acenaphthene-d10	72272	36136	144544	78207	8.21
15 Phenanthrene-d10	156058	78029	312116	151282	-3.06
25 Chrysene-d12	174389	87195	348778	164809	-5.49
33 Perylene-d12	150701	75351	301402	155373	3.10

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.31	-0.29
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.56	-0.04
25 Chrysene-d12	13.01	12.51	13.51	13.01	-0.02
33 Perylene-d12	16.67	16.17	17.17	16.67	-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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100305.D

Lab ID: BGI0708-SRM1
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 12:47

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.927	0.935	-0.0084	Total Benzofluoranthenes

RRT check based on Cgal File: NT818100302.D

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

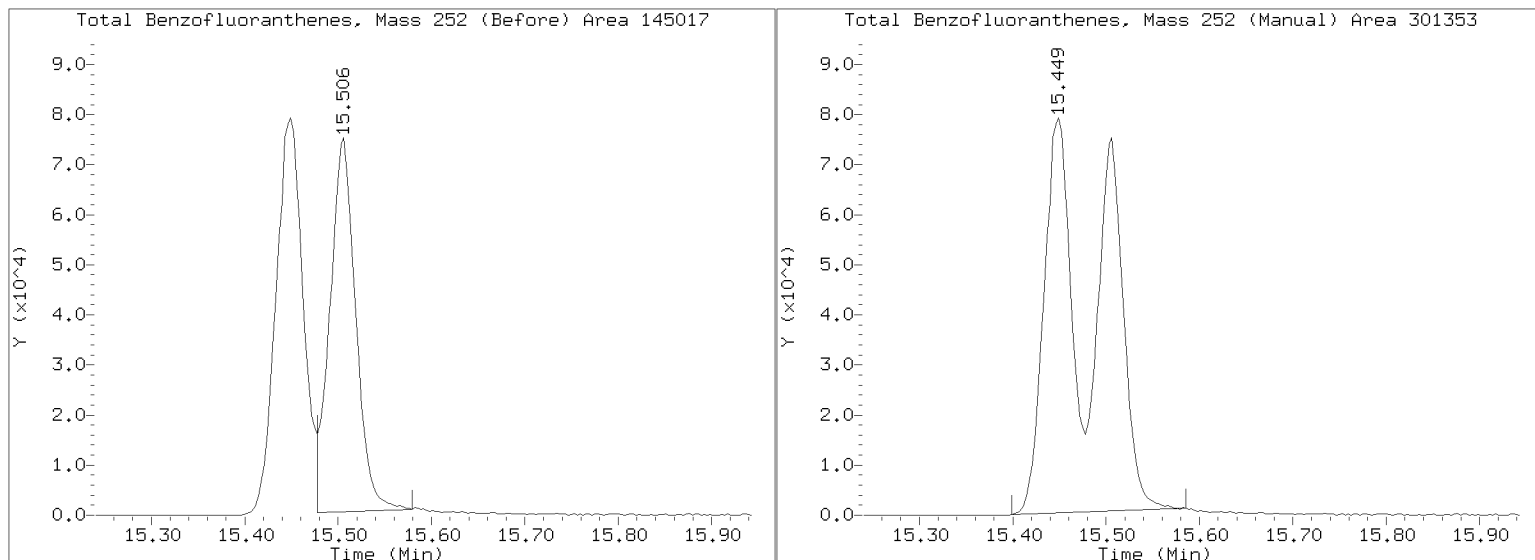
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100305.D

Injection Date: 03-OCT-2018 12:47

Lab ID: BGI0708-SRM1 Client ID:

Report Date: 10/03/2018 13:19





**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270D-SIM**

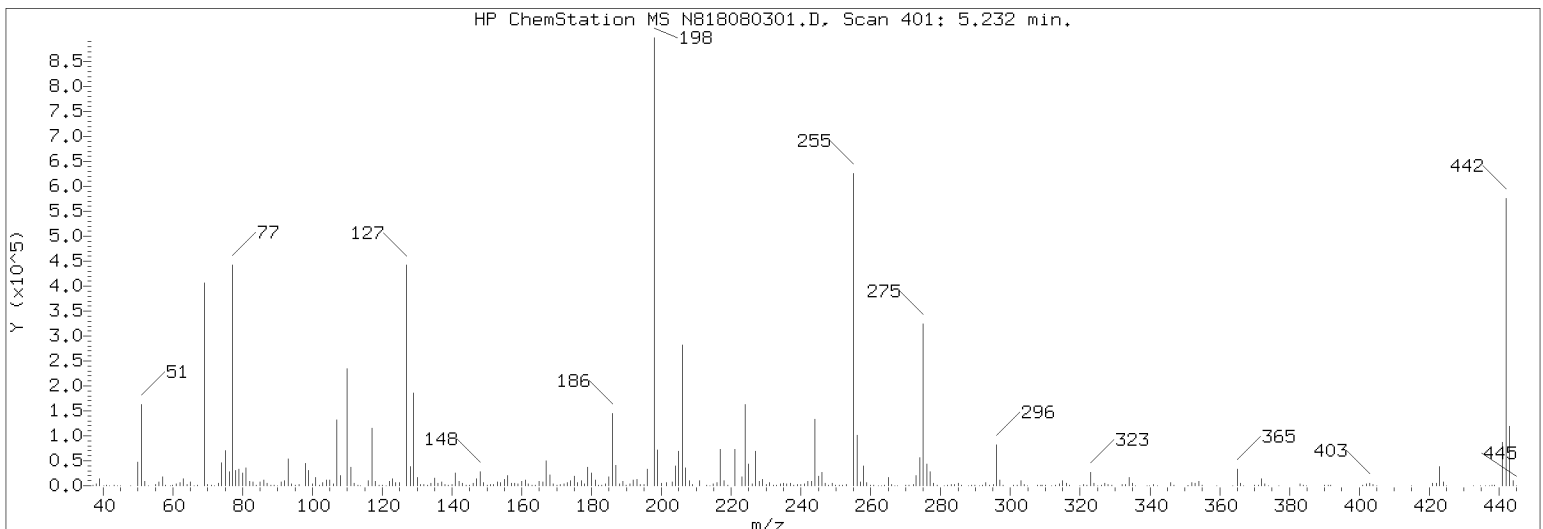
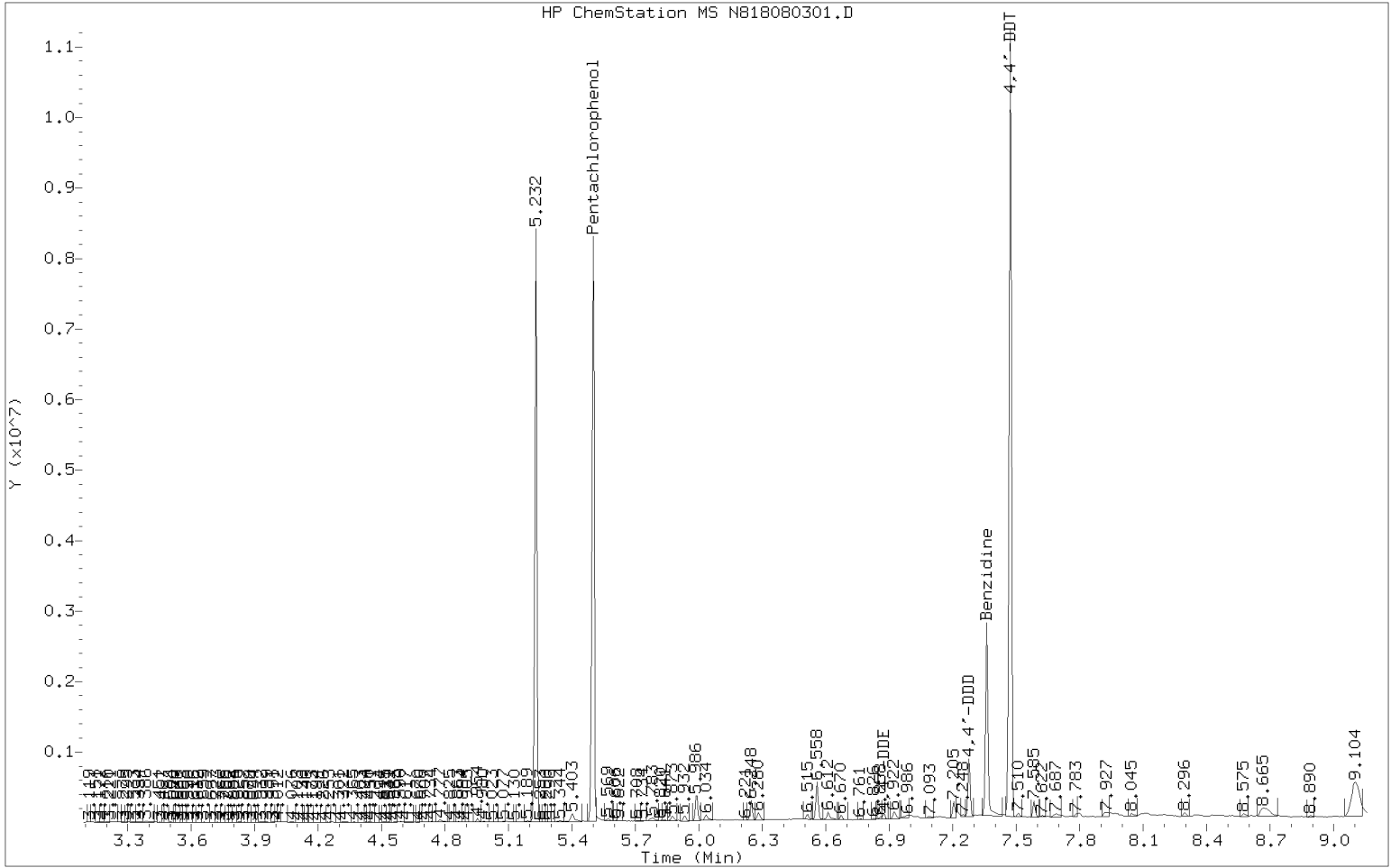
Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMPLTM</u>
Lab File ID:	<u>N818080301.D</u>	Injection Date:	<u>08/03/18</u>
Instrument ID:	<u>NT8</u>	Injection Time:	<u>10:25</u>
Sequence:	<u>SGH0048</u>	Lab Sample ID:	<u>SGH0048-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10 - 80% of 198	19.9	PASS
68	Less than 2% of 69	0.0672	PASS
69	Less than 100% of 198	48.2	PASS
70	Less than 2% of 69	0.646	PASS
127	10 - 80% of 198	49.6	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.77	PASS
275	10 - 60% of 198	35.2	PASS
365	1 - 100% of 198	4.02	PASS
441	0.1 - 24% of 442	15	PASS
442	50 - 200% of 198	70.2	PASS
443	15 - 24% of 442	20.3	PASS
4,4'-DDD			
4,4'-DDE			
4,4'-DDT	Base peak, 100% relative abundance		

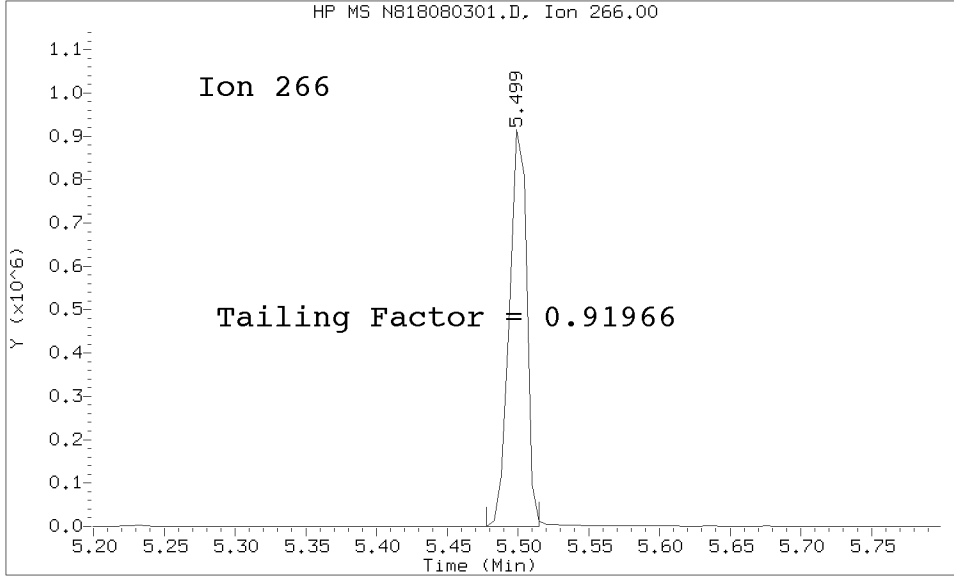
Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SGH0048-TUN1	N818080301.D	08/03/2018	10:25
Cal Standard	SGH0048-CAL1	N818080302.D	08/03/2018	10:49
Cal Standard	SGH0048-CAL2	N818080303.D	08/03/2018	11:28
Cal Standard	SGH0048-CAL3	N818080304.D	08/03/2018	11:55
Cal Standard	SGH0048-CAL4	N818080305.D	08/03/2018	12:22
Cal Standard	SGH0048-CAL5	N818080306.D	08/03/2018	12:49
Cal Standard	SGH0048-CAL6	N818080307.D	08/03/2018	13:16
Secondary Cal Check	SGH0048-SCV1	N818080308.D	08/03/2018	13:52
Secondary Cal Check	SGH0048-SCV2	NT818092503.D	09/25/2018	11:55

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20180803.b/tune.b/N818080301.D/N818080301.D
Method Used: \20180803.b\tune.b\DFTPP.m Inst: nt8
Injection Date: 03-AUG-2018 10:25 Operator: JZ
Sample Info: SGH0048-TUN1 DFTPP180803
Report Date: 08/03/2018 15:38



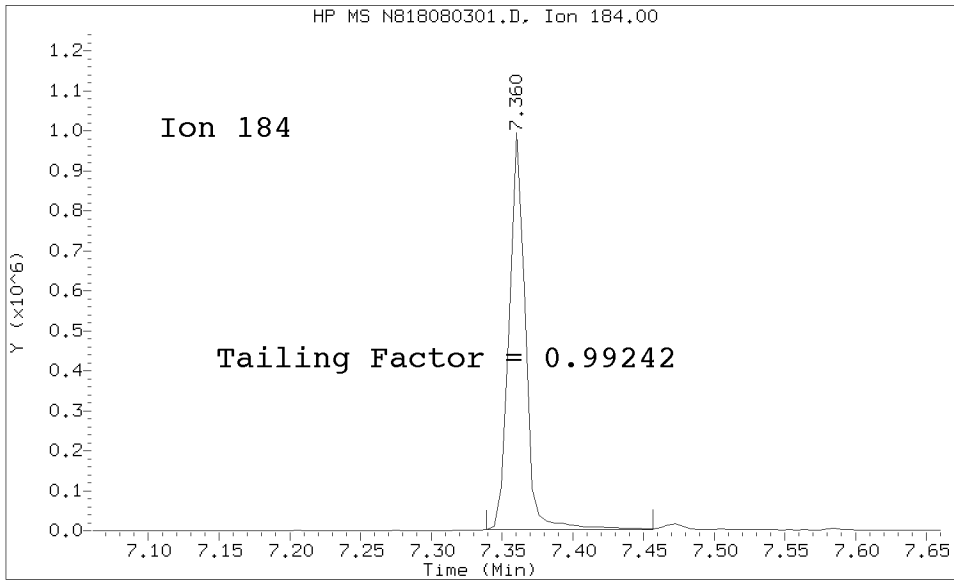
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Method Used: \20180803.b\tune.b\DFTPP.m\sw846ddt.m Inst: nt8
Injection Date: 03-AUG-2018 10:25 Operator: JZ
Sample Info: DFTPP180803
Report Date: 08/03/2018 15:38



Pentachlorophenol

=====
Exp. RT = 5.563
Found RT = 5.499

Tail Factor = 0.920 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.430
Found RT = 7.360

Tail Factor = 0.992 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9196557	2.000	PASS
Benzidine	0.9924242	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1426495			N/A
4,4-DDE	6746	0.5	20.0	PASS
4,4-DDD	111057	7.2	20.0	PASS
4,4-DDD + DDE	117803	7.6	20.0	PASS

Tuning Sample, /nt8.i/20180803.b/tune.b/N818080301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	19.87
68	Less than 2.00% of mass 69	0.03 (0.07)
69	Mass 69 relative abundance	48.22
70	Less than 2.00% of mass 69	0.31 (0.65)
127	10.00 - 80.00% of mass 198	49.60
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.77
275	10.00 - 60.00% of mass 198	35.18
365	Greater than 1.00% of mass 198	4.02
441	0.01 - 24.00% of mass 442	10.50 (14.96)
442	50.00 - 200.00% of mass 198	70.21
443	15.00 - 24.00% of mass 442	14.25 (20.30)

Data File: N818080301.D
 Spectrum: Avg. Scans 400-402 (5.23), Background Scan 394
 Location of Maximum: 198.00
 Number of points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	884	126.00	274	211.00	7546	298.00	678
38.00	2339	127.00	302912	212.00	110	301.00	681
39.00	10581	128.00	25888	213.00	570	302.00	1026
40.00	492	129.00	129352	214.00	250	303.00	7393
41.00	220	130.00	11246	215.00	2261	304.00	2169
42.00	10	131.00	1711	216.00	4530	305.00	133
43.00	359	132.00	1202	217.00	51216	308.00	895
44.00	404	133.00	705	218.00	6640	309.00	899
45.00	279	134.00	3807	219.00	782	310.00	828
48.00	91	135.00	10749	220.00	185	312.00	302
50.00	34256	136.00	3989	221.00	45600	313.00	554
51.00	121344	137.00	5532	222.00	969	314.00	2926
52.00	6564	138.00	1505	223.00	11938	315.00	6965
53.00	362	139.00	1045	224.00	109576	316.00	3864
55.00	1143	140.00	1878	225.00	28784	317.00	899
56.00	5789	141.00	17912	226.00	2972	320.00	293
57.00	12472	142.00	5828	227.00	48600	321.00	1797
58.00	623	143.00	3707	228.00	6788	322.00	1254
60.00	427	144.00	969	229.00	9507	323.00	19200
61.00	2936	145.00	973	230.00	1475	324.00	3508
62.00	4230	146.00	3253	231.00	4561	325.00	318
63.00	10201	147.00	8667	232.00	579	326.00	416
64.00	1589	148.00	20352	233.00	1053	327.00	3674
65.00	5029	149.00	4111	234.00	3125	328.00	1871
66.00	447	150.00	1271	235.00	3788	329.00	566
67.00	1008	151.00	2372	236.00	2341	332.00	1538
68.00	198	152.00	1642	237.00	3563	333.00	1757
69.00	294528	153.00	5755	238.00	763	334.00	11758
70.00	1904	154.00	4196	239.00	1854	335.00	3197
71.00	333	155.00	9697	240.00	1583	336.00	275
72.00	11	156.00	14348	241.00	2756	339.00	241
73.00	1763	157.00	3010	242.00	6113	340.00	236
74.00	33416	158.00	3570	243.00	6462	341.00	1774
75.00	49344	159.00	2459	244.00	89712	342.00	584
76.00	19824	160.00	5556	245.00	12379	346.00	4386
77.00	314816	161.00	7759	246.00	18744	347.00	726
78.00	22432	162.00	2237	247.00	3470	351.00	367
79.00	24392	163.00	604	248.00	1047	352.00	5173
80.00	18568	164.00	1018	249.00	3370	353.00	3870
81.00	24712	165.00	6276	250.00	787	354.00	5687
82.00	5718	166.00	5212	251.00	804	355.00	445
83.00	5407	167.00	33976	252.00	984	359.00	382
84.00	665	168.00	15293	253.00	2060	364.00	128
85.00	4460	169.00	2770	254.00	1839	365.00	24536
86.00	8418	170.00	1243	255.00	437824	366.00	3643
87.00	3311	171.00	1657	256.00	70000	367.00	107
88.00	1203	172.00	3058	257.00	5382	370.00	681
89.00	541	173.00	4542	258.00	27984	371.00	1273
90.00	147	174.00	6944	259.00	4603	372.00	9087

91.00	5410	175.00	12840	260.00	907	373.00	2308
92.00	6453	176.00	4117	261.00	878	374.00	214
93.00	39784	177.00	6971	262.00	91	377.00	183
94.00	2734	178.00	2368	263.00	324	383.00	2475
95.00	570	179.00	25368	264.00	751	384.00	627
96.00	1753	180.00	16424	265.00	11577	385.00	109
98.00	31592	181.00	8026	266.00	1930	390.00	1211
99.00	21984	182.00	1465	267.00	140	391.00	866
100.00	1917	183.00	900	268.00	91	392.00	675
101.00	11755	184.00	2184	270.00	560	401.00	519
102.00	780	185.00	12613	271.00	1064	402.00	2756
103.00	4581	186.00	98168	272.00	1534	403.00	4238
104.00	8663	187.00	27768	273.00	13474	404.00	1395
105.00	7832	188.00	2795	274.00	39768	405.00	189
106.00	1430	189.00	6539	275.00	214848	415.00	191
107.00	92248	190.00	1152	276.00	29920	421.00	3648
108.00	14486	191.00	2693	277.00	19728	422.00	3602
109.00	2368	192.00	8344	278.00	3531	423.00	27880
110.00	164800	193.00	9197	279.00	708	424.00	5605
111.00	26120	194.00	1753	282.00	583	425.00	535
112.00	3593	195.00	1444	283.00	1909	433.00	95
113.00	1134	196.00	22376	284.00	1651	434.00	86
114.00	282	198.00	610752	285.00	3571	435.00	266
115.00	348	199.00	47464	286.00	585	436.00	118
116.00	6763	200.00	3832	288.00	287	437.00	778
117.00	81496	201.00	3591	289.00	720	438.00	1026
118.00	6010	203.00	5517	290.00	652	439.00	716
119.00	548	204.00	26720	291.00	467	441.00	64144
120.00	1222	205.00	45464	292.00	1018	442.00	428800
121.00	602	206.00	190208	293.00	4019	443.00	87048
122.00	6770	207.00	24272	294.00	1065	444.00	7821
123.00	10219	208.00	6786	295.00	1438	445.00	491
124.00	4746	209.00	2215	296.00	60688		
125.00	4324	210.00	1529	297.00	8342		



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270D-SIM**

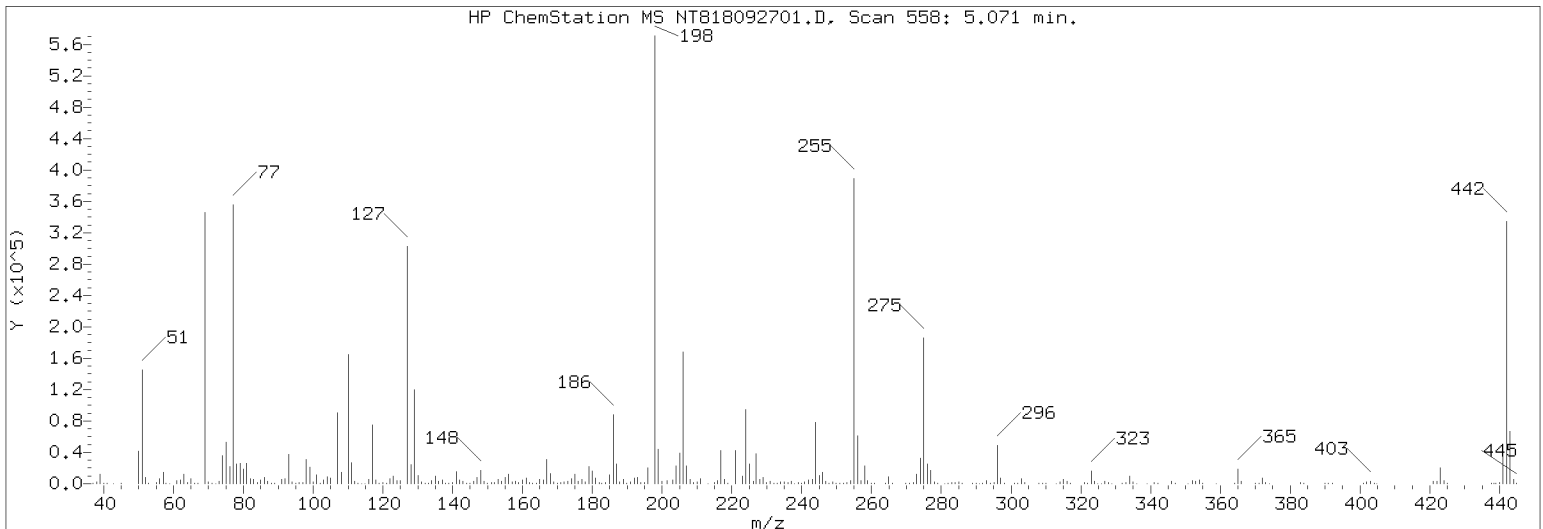
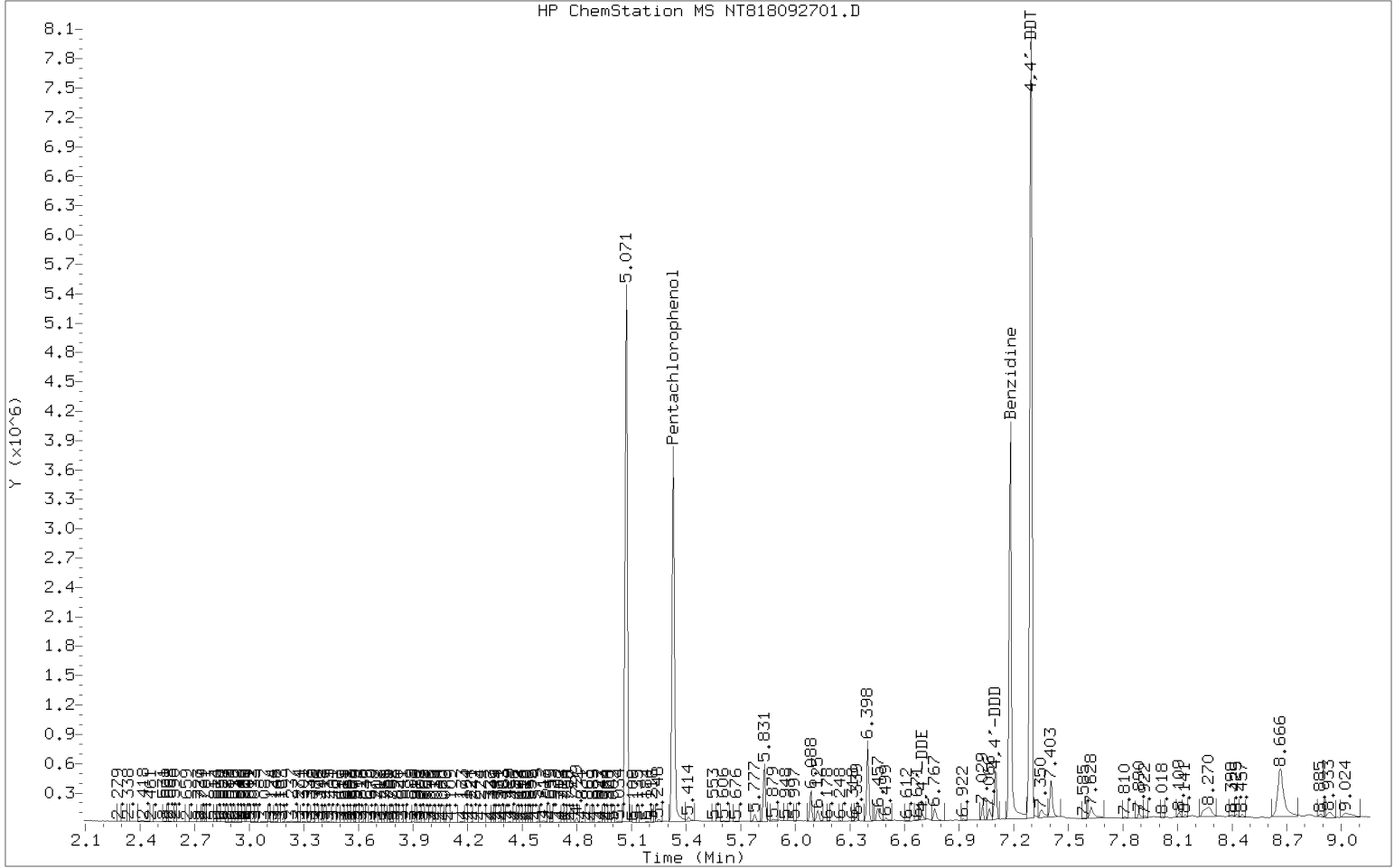
Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMPLTM</u>
Lab File ID:	<u>NT818092701.D</u>	Injection Date:	<u>09/27/18</u>
Instrument ID:	<u>NT8</u>	Injection Time:	<u>10:41</u>
Sequence:	<u>SGI0437</u>	Lab Sample ID:	<u>SGI0437-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10 - 80% of 198	22.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	56.4	PASS
70	Less than 2% of 69	0.574	PASS
127	10 - 80% of 198	51.2	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.47	PASS
275	10 - 60% of 198	33.5	PASS
365	1 - 100% of 198	3.6	PASS
441	0.1 - 24% of 442	14.7	PASS
442	50 - 200% of 198	62.6	PASS
443	15 - 24% of 442	20.3	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Base peak, 100% relative abundance		

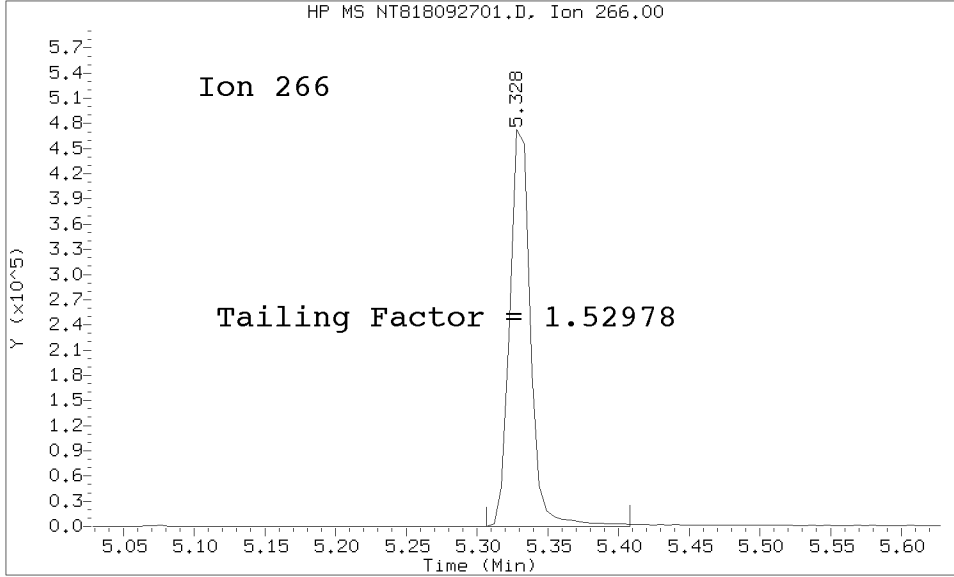
Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SGI0437-TUN1	NT818092701.D	09/27/2018	10:41
Initial Cal Check	SGI0437-ICV1	NT818092702.D	09/27/2018	10:58
Blank	BGI0618-BLK1	NT818092703.D	09/27/2018	13:09
LCS	BGI0618-BS1	NT818092704.D	09/27/2018	13:35
LCS Dup	BGI0618-BSD1	NT818092705.D	09/27/2018	14:02
PGLTM-RB-180919	18I0285-38	NT818092706.D	09/27/2018	14:29
Blank	BGI0615-BLK1	NT818092707.D	09/27/2018	14:56
LCS	BGI0615-BS1	NT818092708.D	09/27/2018	15:23
ZZZZZ	18I0272-08	NT818092709.D	09/27/2018	15:50
ZZZZZ	18I0272-08RE1	NT818092710.D	09/27/2018	16:23
Calibration Check	SGI0437-CCV1	NT818092711.D	09/27/2018	16:50

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20180927.b/tune.b/NT818092701.D/NT818092701.D
 Method Used: \20180927.b\tune.b\DFTPP.m Inst: nt8
 Injection Date: 27-SEP-2018 10:41 Operator: JZ
 Sample Info: SGI0437-TUN1 DFTPP180927
 Report Date: 09/27/2018 14:13



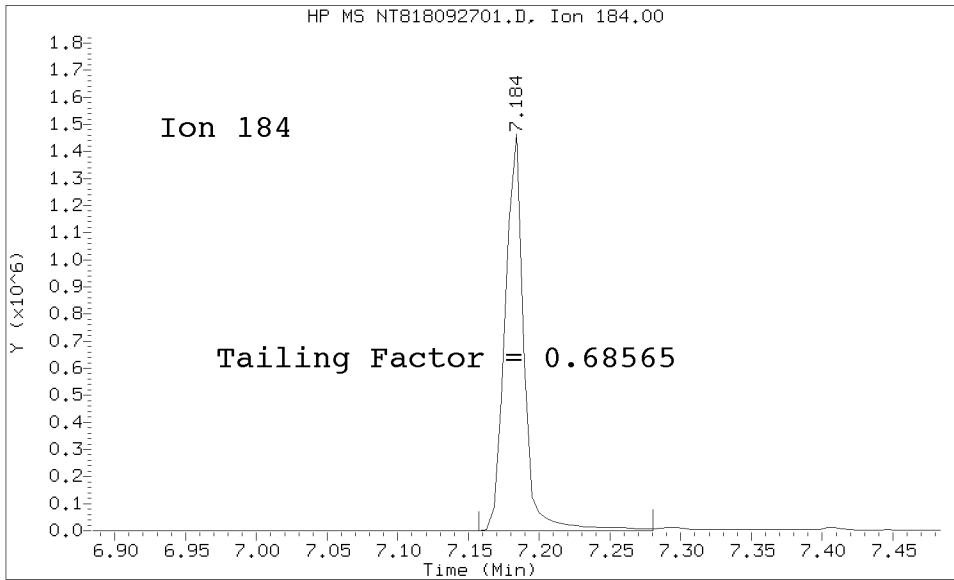
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Method Used: \20180927.b\tune.b\DFTPP.m\sw846ddt.m Inst: nt8
Injection Date: 27-SEP-2018 10:41 Operator: JZ
Sample Info: DFTPP180927
Report Date: 09/27/2018 14:13



Pentachlorophenol

=====
Exp. RT = 5.376
Found RT = 5.328

Tail Factor = 1.530 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.232
Found RT = 7.184

Tail Factor = 0.686 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.5297806	2.000	PASS
Benzidine	0.6856517	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1278771			N/A
4,4-DDE	4533	0.4	20.0	PASS
4,4-DDD	85973	6.3	20.0	PASS
4,4-DDD + DDE	90506	6.6	20.0	PASS

Tuning Sample, /nt8.i/20180927.b/tune.b/NT818092701.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	22.76
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	56.37
70	Less than 2.00% of mass 69	0.32 (0.57)
127	10.00 - 80.00% of mass 198	51.24
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.46
275	10.00 - 60.00% of mass 198	33.45
365	Greater than 1.00% of mass 198	3.60
441	0.01 - 24.00% of mass 442	9.23 (14.74)
442	50.00 - 200.00% of mass 198	62.64
443	15.00 - 24.00% of mass 442	12.71 (20.29)

Data File: NT818092701.D
 Spectrum: Avg. Scans 557-559 (5.07), Background Scan 552
 Location of Maximum: 198.00
 Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	776	125.00	3130	207.00	18872	297.00	6214
38.00	2005	127.00	245952	208.00	4491	298.00	439
39.00	9572	128.00	20200	209.00	1743	301.00	644
40.00	405	129.00	98128	210.00	2326	302.00	857
41.00	222	130.00	8584	211.00	5636	303.00	5172
45.00	380	131.00	1737	212.00	344	304.00	1555
49.00	741	132.00	868	213.00	285	308.00	683
50.00	30656	133.00	523	214.00	85	309.00	459
51.00	109232	134.00	3167	215.00	1627	310.00	564
52.00	6189	135.00	7743	216.00	3154	313.00	313
53.00	233	136.00	3048	217.00	36104	314.00	2348
55.00	692	137.00	4071	218.00	4727	315.00	5103
56.00	4932	138.00	902	219.00	557	316.00	2755
57.00	11510	139.00	524	221.00	33968	317.00	545
58.00	588	140.00	1352	223.00	8366	320.00	126
59.00	93	141.00	12933	224.00	79960	321.00	1462
60.00	94	142.00	4203	225.00	21136	322.00	929
61.00	2773	143.00	2854	226.00	2723	323.00	14121
62.00	3551	144.00	728	227.00	32848	324.00	2732
63.00	9060	145.00	745	228.00	4715	325.00	99
64.00	1236	146.00	2591	229.00	6769	326.00	212
65.00	4693	147.00	5932	230.00	1049	327.00	2551
66.00	450	148.00	14583	231.00	2967	328.00	1402
67.00	321	149.00	2942	232.00	516	329.00	216
69.00	270592	150.00	854	233.00	689	332.00	1045
70.00	1554	151.00	1731	234.00	2043	333.00	1478
71.00	443	152.00	1127	235.00	2416	334.00	8650
72.00	109	153.00	4325	236.00	1593	335.00	2345
73.00	406	154.00	3197	237.00	2649	336.00	236
74.00	27792	155.00	6756	238.00	384	339.00	102
75.00	42688	156.00	10750	239.00	1424	340.00	98
76.00	16936	157.00	2182	240.00	1018	341.00	1230
77.00	283648	158.00	2389	241.00	2054	342.00	394
78.00	20312	159.00	1886	242.00	4345	346.00	2913
79.00	20592	160.00	3958	243.00	4748	347.00	591
80.00	15252	161.00	5865	244.00	66240	351.00	236
81.00	20496	162.00	1546	245.00	8916	352.00	4006
82.00	4757	163.00	455	246.00	12752	353.00	2745
83.00	4643	164.00	800	247.00	2700	354.00	4467
84.00	329	165.00	4797	248.00	576	355.00	132
85.00	3790	166.00	3805	249.00	2427	359.00	226
86.00	5697	167.00	25472	250.00	512	364.00	156
87.00	2753	168.00	11042	251.00	510	365.00	17288
88.00	960	169.00	2034	252.00	720	366.00	2648
89.00	474	170.00	895	253.00	1474	367.00	121
91.00	4577	171.00	1205	254.00	2270	370.00	441
92.00	5275	172.00	2245	255.00	331200	371.00	1033
93.00	30968	173.00	3038	256.00	51312	372.00	6639
94.00	2003	174.00	5557	257.00	3888	373.00	1620

95.00	638	175.00	9874	258.00	19216	374.00	95
96.00	1234	176.00	2989	259.00	3073	383.00	1564
97.00	481	177.00	4893	260.00	677	384.00	408
98.00	23912	178.00	1724	261.00	586	390.00	762
99.00	17080	179.00	18744	264.00	492	391.00	555
100.00	1676	180.00	12682	265.00	8041	392.00	352
101.00	9444	181.00	6060	266.00	1083	401.00	288
102.00	572	182.00	1150	270.00	472	402.00	2099
103.00	3912	183.00	565	271.00	738	403.00	3436
104.00	7064	184.00	1633	272.00	1082	404.00	1114
105.00	6103	185.00	9384	273.00	10351	405.00	88
106.00	1247	186.00	72696	274.00	28280	415.00	105
107.00	72984	187.00	21248	275.00	160576	421.00	2734
108.00	11632	188.00	2141	276.00	22016	422.00	2658
109.00	940	189.00	4954	277.00	13866	423.00	19232
110.00	135104	190.00	813	278.00	2422	424.00	3948
111.00	21208	191.00	2171	279.00	455	425.00	468
112.00	2741	192.00	6066	282.00	464	436.00	121
113.00	1045	193.00	6478	283.00	1482	437.00	108
114.00	102	194.00	1471	284.00	1292	438.00	635
115.00	270	195.00	977	285.00	2277	439.00	305
116.00	4465	196.00	17568	286.00	307	440.00	1102
117.00	60704	198.00	480000	289.00	624	441.00	44312
118.00	4089	199.00	35832	290.00	539	442.00	300672
119.00	560	200.00	2623	291.00	251	443.00	61016
120.00	897	201.00	2982	292.00	568	444.00	5375
121.00	374	203.00	3655	293.00	3135	445.00	273
122.00	5215	204.00	19280	294.00	670		
123.00	7853	205.00	33776	295.00	1132		
124.00	3397	206.00	140608	296.00	43192		



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270D-SIM**

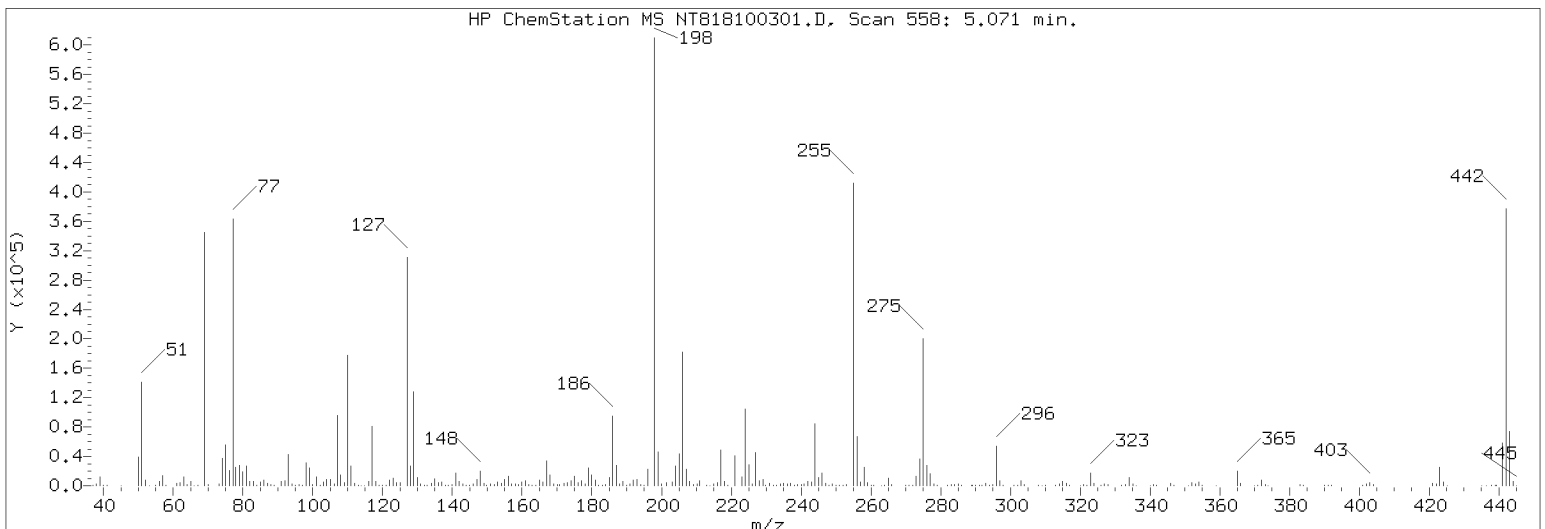
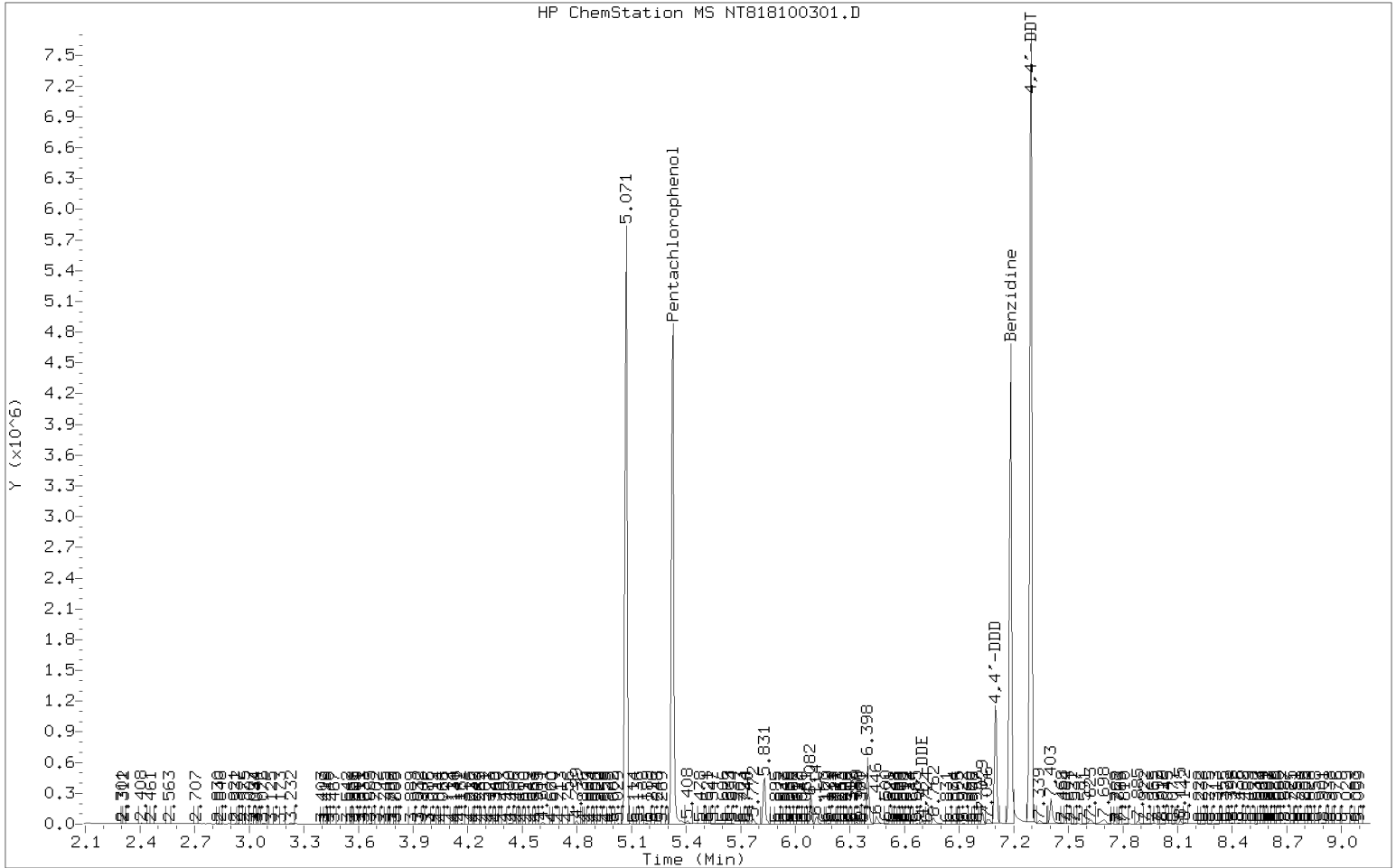
Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMPLTM</u>
Lab File ID:	<u>NT818100301.D</u>	Injection Date:	<u>10/03/18</u>
Instrument ID:	<u>NT8</u>	Injection Time:	<u>11:07</u>
Sequence:	<u>SGJ0048</u>	Lab Sample ID:	<u>SGJ0048-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10 - 80% of 198	20.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	52.3	PASS
70	Less than 2% of 69	0.647	PASS
127	10 - 80% of 198	49.4	PASS
197	Less than 2% of 198	0.62	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.37	PASS
275	10 - 60% of 198	32.9	PASS
365	1 - 100% of 198	3.67	PASS
441	0.1 - 24% of 442	15.2	PASS
442	50 - 200% of 198	68.1	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Base peak, 100% relative abundance		

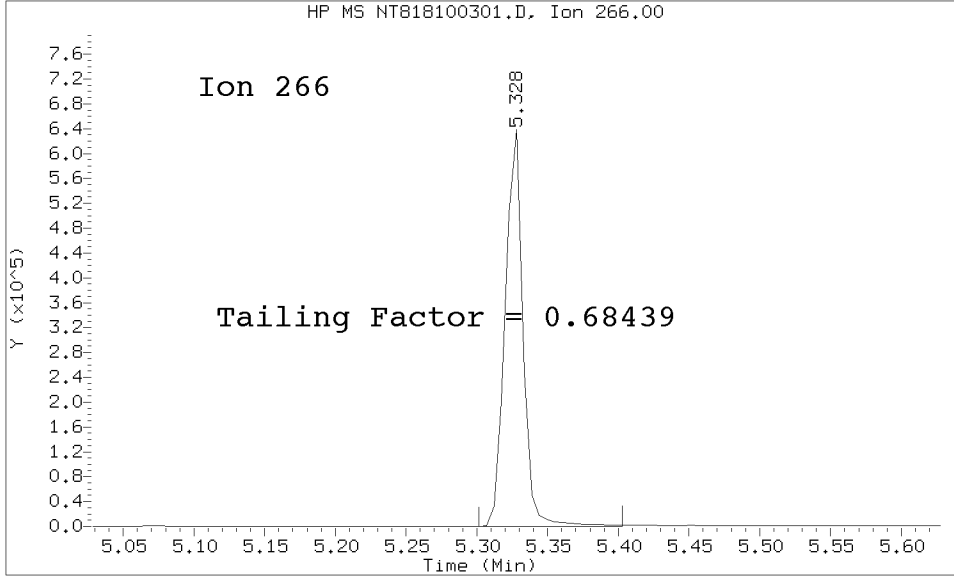
Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SGJ0048-TUN1	NT818100301.D	10/03/2018	11:07
Initial Cal Check	SGJ0048-ICV1	NT818100302.D	10/03/2018	11:20
Blank	BGI0708-BLK1	NT818100303.D	10/03/2018	11:53
LCS	BGI0708-BS1	NT818100304.D	10/03/2018	12:20
Reference	BGI0708-SRM1	NT818100305.D	10/03/2018	12:47
1A1A-IT-0-10-Comp-1809	18I0285-01	NT818100307.D	10/03/2018	13:48
1A1-ST-0-10-Comp-1809	18I0285-02	NT818100308.D	10/03/2018	14:14
1A2A-IT-0-10-Comp-1809	18I0285-03	NT818100309.D	10/03/2018	14:41
Matrix Spike	BGI0708-MS1	NT818100310.D	10/03/2018	15:08
Matrix Spike Dup	BGI0708-MSD1	NT818100311.D	10/03/2018	15:35
1A2A-ST-0-10-Comp-1809	18I0285-04	NT818100312.D	10/03/2018	16:02
1A2B-IT-0-10-Comp-1809	18I0285-05	NT818100313.D	10/03/2018	16:29
1A2B-ST-0-10-Comp-1809	18I0285-06	NT818100314.D	10/03/2018	16:56
1A102B-ST-0-10-Comp-180	18I0285-37	NT818100315.D	10/03/2018	17:22
1A1-ST-0-10-Comp-1809	18I0285-02RE1	NT818100316.D	10/03/2018	17:49
Calibration Check	SGJ0048-CCV1	NT818100317.D	10/03/2018	18:34

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20181003.b/tune.b/NT818100301.D/NT818100301.D
Method Used: \20181003.b\tune.b\DFTPP.m Inst: nt8
Injection Date: 03-OCT-2018 11:07 Operator: JZ
Sample Info: SGJ0048-TUN1 DFTPP181003
Report Date: 10/03/2018 12:11



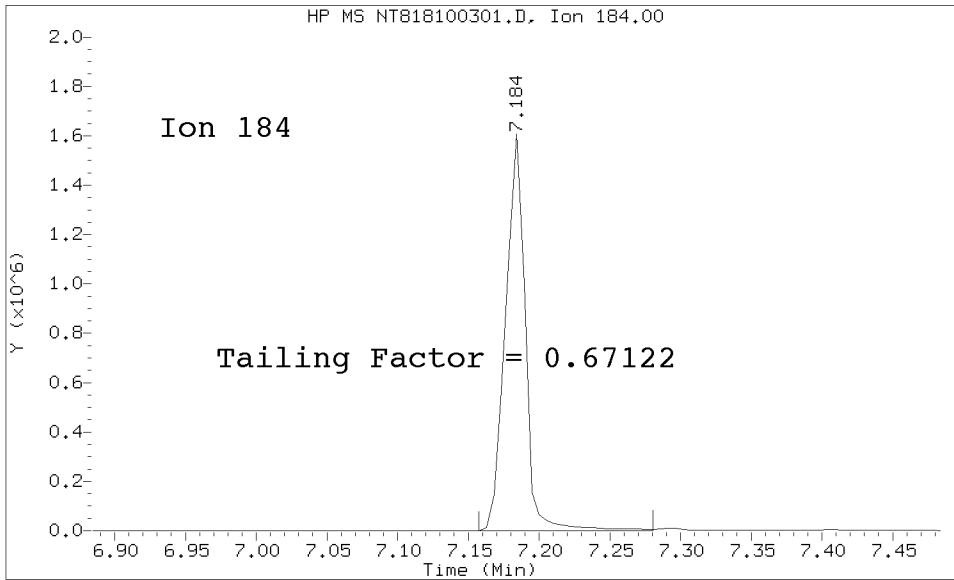
Datafile Analyzed: /20181003.b/tune.b/NT818100301.D/NT818100301.D
Method Used: \20181003.b\tune.b\DFTPP.m\sw846ddt.m Inst: nt8
Injection Date: 03-OCT-2018 11:07 Operator: JZ
Sample Info: DFTPP181003
Report Date: 10/03/2018 12:11



Pentachlorophenol

=====
Exp. RT = 5.376
Found RT = 5.328

Tail Factor = 0.684 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.232
Found RT = 7.184

Tail Factor = 0.671 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.6843854	2.000	PASS
Benzidine	0.6712185	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1184255			N/A
4,4-DDE	3981	0.3	20.0	PASS
4,4-DDD	203563	14.7	20.0	PASS
4,4-DDD + DDE	207544	14.9	20.0	PASS

Tuning Sample, /nt8.i/20181003.b/tune.b/NT818100301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	20.81
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.29
70	Less than 2.00% of mass 69	0.34 (0.65)
127	10.00 - 80.00% of mass 198	49.38
197	Less than 2.00% of mass 198	0.62
199	5.00 - 9.00% of mass 198	7.37
275	10.00 - 60.00% of mass 198	32.95
365	Greater than 1.00% of mass 198	3.67
441	0.01 - 24.00% of mass 442	10.38 (15.22)
442	50.00 - 200.00% of mass 198	68.15
443	15.00 - 24.00% of mass 442	13.48 (19.79)

Data File: NT818100301.D
 Spectrum: Avg. Scans 557-559 (5.07), Background Scan 552
 Location of Maximum: 198.00
 Number of points: 307

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	653	128.00	19736	206.00	144192	294.00	823
38.00	2069	129.00	99016	207.00	18296	295.00	1099
39.00	8509	130.00	8670	208.00	4908	296.00	44040
40.00	365	131.00	1563	209.00	1556	297.00	6013
41.00	240	132.00	933	210.00	2387	298.00	461
45.00	87	133.00	406	211.00	5409	301.00	584
49.00	801	134.00	2979	213.00	396	302.00	770
50.00	27896	135.00	7680	214.00	89	303.00	5475
51.00	100616	136.00	3240	215.00	1934	304.00	1494
52.00	5627	137.00	3806	216.00	3326	308.00	693
53.00	252	138.00	947	217.00	38112	309.00	388
55.00	911	139.00	486	218.00	4753	310.00	573
56.00	4356	140.00	1519	219.00	320	313.00	446
57.00	9881	141.00	13271	221.00	33704	314.00	2242
58.00	511	142.00	4258	223.00	9022	315.00	5089
61.00	2606	143.00	2614	224.00	83648	316.00	2729
62.00	3250	144.00	764	225.00	22288	317.00	527
63.00	8837	145.00	718	226.00	2082	320.00	214
64.00	1263	146.00	2234	227.00	35120	321.00	1452
65.00	4229	147.00	6556	228.00	5266	322.00	769
66.00	236	148.00	14660	229.00	7067	323.00	14706
67.00	597	149.00	3114	230.00	913	324.00	2552
69.00	252800	150.00	1054	231.00	3039	325.00	91
70.00	1636	151.00	1785	232.00	564	326.00	250
73.00	2151	152.00	1276	233.00	607	327.00	2519
74.00	27464	153.00	4052	234.00	2183	328.00	1372
75.00	40472	154.00	3047	235.00	2362	332.00	992
76.00	15508	155.00	6496	236.00	1897	333.00	1289
77.00	268288	156.00	10236	237.00	2848	334.00	9056
78.00	19480	157.00	2176	238.00	371	335.00	2425
79.00	19960	158.00	2345	239.00	1624	336.00	196
80.00	14496	159.00	1708	240.00	1220	339.00	101
81.00	19624	160.00	4002	241.00	1897	340.00	201
82.00	4569	161.00	5591	242.00	4575	341.00	1574
83.00	4480	162.00	1644	243.00	4976	342.00	454
84.00	406	163.00	510	244.00	68496	346.00	3152
85.00	3888	164.00	807	245.00	9047	347.00	461
86.00	5322	165.00	5243	246.00	13618	351.00	199
87.00	2884	166.00	4305	247.00	2896	352.00	4104
88.00	972	167.00	26152	248.00	600	353.00	2734
89.00	473	168.00	11363	249.00	2275	354.00	4607
91.00	4562	169.00	1988	250.00	540	355.00	904
92.00	4886	170.00	941	251.00	527	359.00	303
93.00	31808	171.00	1067	252.00	631	365.00	17752
94.00	2157	172.00	2495	253.00	1343	366.00	2468
95.00	528	173.00	3011	254.00	809	370.00	344
96.00	1336	174.00	5411	255.00	335296	371.00	928
97.00	379	175.00	10316	256.00	52496	372.00	6721
98.00	23832	176.00	3055	257.00	4171	373.00	1789

99.00	17952	177.00	5180	258.00	20568	374.00	199
100.00	1521	178.00	1931	259.00	3186	383.00	1599
101.00	9306	179.00	18544	260.00	531	384.00	470
102.00	524	180.00	12603	261.00	553	390.00	853
103.00	3434	181.00	6032	263.00	83	391.00	642
104.00	6616	182.00	1048	264.00	475	392.00	413
105.00	6002	183.00	595	265.00	8272	401.00	390
106.00	2394	184.00	1649	266.00	1139	402.00	2339
107.00	72544	185.00	9587	270.00	366	403.00	3659
108.00	11446	186.00	73424	271.00	701	404.00	1416
109.00	3269	187.00	21024	272.00	1079	405.00	106
110.00	131648	188.00	1851	273.00	10251	421.00	2867
111.00	20328	189.00	4942	274.00	28992	422.00	2566
112.00	2417	190.00	932	275.00	159296	423.00	20840
113.00	713	191.00	2103	276.00	22024	424.00	4300
114.00	130	192.00	6125	277.00	14003	425.00	246
115.00	302	193.00	6545	278.00	2488	435.00	131
116.00	4661	194.00	1317	279.00	373	436.00	383
117.00	61880	195.00	851	282.00	247	437.00	96
118.00	4387	196.00	17016	283.00	1458	438.00	766
119.00	621	197.00	2996	284.00	1083	439.00	1001
120.00	907	198.00	483456	285.00	2395	440.00	175
121.00	403	199.00	35616	286.00	490	441.00	50160
122.00	5529	200.00	2617	289.00	611	442.00	329472
123.00	7470	201.00	3056	290.00	549	443.00	65192
124.00	3436	203.00	4004	291.00	459	444.00	5567
125.00	3054	204.00	20392	292.00	650	445.00	380
127.00	238720	205.00	34152	293.00	2824		



INITIAL CALIBRATION DATA EPA 8270D-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	18I0285
Client:	Anchor QEA, LLC	Project:	Port Gamble - OMMP LTM
Calibration:	BH00016	Instrument:	NT8
Calibration Date:	08/03/2018 10:00	Column (1):	RXI-17Sil ms

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Naphthalene	0.1	1.199521	0.5	1.017749	1	1.079814	2.5	1.059533	5	1.117482	10	1.066077
2-Methylnaphthalene	0.1	0.6669233	0.5	0.572494	1	0.6089616	2.5	0.5958461	5	0.6269132	10	0.5961987
1-Methylnaphthalene	0.1	0.6965834	0.5	0.5919056	1	0.6210022	2.5	0.6078513	5	0.6433782	10	0.6150395
Acenaphthylene	0.1	2.560004	0.5	1.968491	1	2.041534	2.5	2.03095	5	2.096434	10	2.030672
Acenaphthene	0.1	1.798759	0.5	1.306828	1	1.367924	2.5	1.336639	5	1.408328	10	1.361383
Fluorene	0.1	2.033009	0.5	1.53014	1	1.560567	2.5	1.54006	5	1.610104	10	1.570145
Phenanthrene	0.1	1.292776	0.5	0.9870387	1	1.053592	2.5	1.039608	5	1.062046	10	1.036624
Anthracene	0.1	1.195157	0.5	0.940803	1	1.054519	2.5	1.029094	5	1.07561	10	1.040983
Fluoranthene	0.1	1.467923	0.5	1.186089	1	1.212265	2.5	1.216543	5	1.251773	10	1.189734
Pyrene	0.1	1.471011	0.5	1.076271	1	1.183801	2.5	1.12758	5	1.168176	10	1.113288
Benzo(a)anthracene	0.1	1.36653	0.5	1.049463	1	1.132697	2.5	1.087004	5	1.14966	10	1.118833
Chrysene	0.1	1.259369	0.5	0.9923621	1	1.070326	2.5	1.042749	5	1.098972	10	1.061755
Benzo(b)fluoranthene	0.1	1.386555	0.5	1.153391	1	1.236203	2.5	1.195947	5	1.29843	10	1.212669
Benzo(k)fluoranthene	0.1	1.502495	0.5	1.086111	1	1.200035	2.5	1.173449	5	1.244729	10	1.202431
Benzo(j)fluoranthene	0.1	1.404655	0.5	1.038478	1	1.10944	2.5	1.144406	5	1.196029	10	1.130162
Benzo(a)pyrene	0.1	1.347865	0.5	1.024373	1	1.070831	2.5	1.073633	5	1.14186	10	1.091838
Indeno(1,2,3-cd)pyrene	0.1	1.469707	0.5	1.04068	1	1.084284	2.5	1.108802	5	1.205414	10	1.202382
Dibenzo(a,h)anthracene	0.1	1.161758	0.5	0.865761	1	0.8990039	2.5	0.9495518	5	1.047581	10	1.06545
Benzo(g,h,i)perylene	0.1	1.28137	0.5	0.8459407	1	0.8994444	2.5	0.9213635	5	0.9952253	10	0.9754123
Benzo(a)fluoranthenes, Total	0.3	1.429049	1.5	1.073763	3	1.172849	7.5	1.176151	15	1.243288	30	1.167904
2-Methylnaphthalene-d10	0.1	0.807666	0.5	0.6344172	1	0.6832168	2.5	0.681526	5	0.7318168	10	0.7051757
Dibenzo[a,h]anthracene-d14	0.1	1.028113	0.5	0.7669562	1	0.8149276	2.5	0.8665954	5	0.9471604	10	0.9594886
Fluoranthene-d10	0.1	1.516193	0.5	1.143195	1	1.21298	2.5	1.223048	5	1.262828	10	1.220197



INITIAL CALIBRATION DATA
EPA 8270D-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	18I0285
Client:	Anchor QEA, LLC	Project:	Port Gamble - OMMP LTM
Calibration:	BH00016	Instrument:	NT8
Calibration Date:	08/03/2018 10:00	Column (1):	RXI-17Sil ms

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Naphthalene	1.090029	5.7			RSD (15)	
2-Methylnaphthalene	0.6112228	5.3			RSD (15)	
1-Methylnaphthalene	0.6292934	5.9			RSD (15)	
Acenaphthylene	2.121348	10.3			RSD (15)	
Acenaphthene	1.429977	12.9			RSD (15)	
Fluorene	1.640671	11.8			RSD (15)	
Phenanthrene	1.078614	10.0			RSD (15)	
Anthracene	1.056028	7.8			RSD (15)	
Fluoranthene	1.254055	8.6			RSD (15)	
Pyrene	1.190021	12.0			RSD (15)	
Benzo(a)anthracene	1.150698	9.7			RSD (15)	
Chrysene	1.087589	8.4			RSD (15)	
Benzo(b)fluoranthene	1.247199	6.7			RSD (15)	
Benzo(k)fluoranthene	1.234875	11.4			RSD (15)	
Benzo(j)fluoranthene	1.170528	10.7			RSD (15)	
Benzo(a)pyrene	1.125067	10.3			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.185211	13.0			RSD (15)	
Dibenzo(a,h)anthracene	0.9981843	11.3			RSD (15)	
Benzo(g,h,i)perylene	0.9864594	15.6	0.9994		LCOD (0.99)	
Benzo(a)fluoranthenes, Total	1.210501	9.9			RSD (15)	
2-Methylnaphthalene-d10	0.7073031	8.3			RSD (15)	
Dibenzo[a,h]anthracene-d14	0.8972069	10.9			RSD (15)	
Fluoranthene-d10	1.263074	10.3			RSD (15)	



ANALYSIS SEQUENCE

SGH0048

Instrument: NT8 Element Column ID: G005563
 Calibration ID: BH00016 Tune File: 180627.U
 EM Voltage: 1729

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SGH0048-TUN1	MS Tune	QC		1	G000074		
SGH0048-CAL1	Cal Standard	QC		2	F010860	G003194	
SGH0048-CAL2	Cal Standard	QC		3	F010861	G003194	
SGH0048-CAL3	Cal Standard	QC		4	F010862	G003194	
SGH0048-CAL4	Cal Standard	QC		5	F010863	G003194	
SGH0048-CAL5	Cal Standard	QC		6	F010864	G003194	
SGH0048-CAL6	Cal Standard	QC		7	F010865	G003194	
SGH0048-SCV1	Secondary Cal Check	QC		8	F010866	G003194	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180803.b

Time	Filename	LabID	ClientID	DF																
1	1025	N818080301.D	SGH0048-TUN1	1	NO	ISTDS	FOUND	1												
2	1049	N818080302.D	SGH0048-CAL1	1	4.54	140256	6.80	72828	8.80	148332	13.41	171705	17.15	152493						
3	1128	N818080303.D	SGH0048-CAL2	1	4.53	148571	6.80	79279	8.80	167576	13.41	185916	17.14	161652						
4	1155	N818080304.D	SGH0048-CAL3	1	4.53	145175	6.79	79598	8.80	170565	13.40	182649	17.14	158927						
5	1222	N818080305.D	SGH0048-CAL4	1	4.53	131877	6.79	72272	8.80	156058	13.40	174389	17.14	150701						
6	1249	N818080306.D	SGH0048-CAL5	1	4.53	124846	6.79	68922	8.80	148603	13.40	166983	17.14	146061						
7	1316	N818080307.D	SGH0048-CAL6	1	4.53	126746	6.79	68539	8.80	146496	13.40	165984	17.14	150970						
8	1352	N818080308.D	SGH0048-SCV1	1	4.53	122601	6.80	67009	8.80	144893	13.41	160930	17.14	139981						

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180803.b

ARI Job No.: SGH0 Method: FSIMPNA180803.m Instrument: nt8.i Date: 03-AUG-2018

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1049	N818080302.D	SGH0048-CAL1		1	Total Benzofluoranthrenes, Dibenzo(a,h)anthracene-d14,
1128	N818080303.D	SGH0048-CAL2		1	Total Benzofluoranthrenes,
1155	N818080304.D	SGH0048-CAL3		1	Total Benzofluoranthrenes,
1222	N818080305.D	SGH0048-CAL4		1	Total Benzofluoranthrenes,
1249	N818080306.D	SGH0048-CAL5		1	Total Benzofluoranthrenes,
1316	N818080307.D	SGH0048-CAL6		1	Total Benzofluoranthrenes,
1352	N818080308.D	SGH0048-SCV1		1	Total Benzofluoranthrenes,

Security Status Report

Date: 03-Aug-2018 16:12

N818080301.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080302.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080303.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080304.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080305.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080306.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080307.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080308.D	Data Locked	jiangqing,	03-Aug-2018	16:12

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2018 10:49
 End Cal Date : 03-AUG-2018 13:16
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Last Edit : 03-Aug-2018 15:34 jianqing

Calibration File Names:

- Level 1: \\target\share\chem3\nt8.i\20180803.b\N818080302.D
- Level 2: \\target\share\chem3\nt8.i\20180803.b\N818080303.D
- Level 3: \\target\share\chem3\nt8.i\20180803.b\N818080304.D
- Level 4: \\target\share\chem3\nt8.i\20180803.b\N818080305.D
- Level 5: \\target\share\chem3\nt8.i\20180803.b\N818080306.D
- Level 6: \\target\share\chem3\nt8.i\20180803.b\N818080307.D

08/03/18

Compound	0.100000		0.500000		1.0000		2.5000		5.0000		10.0000		Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2					
2 Naphthalene	1.19952	1.01775	1.07981	1.05953	1.11748	1.06608	AVRG	1.09003	1.09003					5.74015	
4 2-Methylnaphthalene	0.66692	0.57249	0.60896	0.59585	0.62691	0.59620	AVRG	0.61122	0.61122					5.33464	
5 1-methylnaphthalene	0.69658	0.59191	0.62100	0.60785	0.64338	0.61504	AVRG	0.62929	0.62929					5.88427	
6 2-Chloronaphthalene	0.74621	0.60343	0.63850	0.64204	0.67117	0.63286	AVRG	0.65570	0.65570					7.52331	
7 Biphenyl	2.02532	1.64048	1.70911	1.67218	1.74726	1.71463	AVRG	1.75150	1.75150					7.94270	
8 2,6-Dimethylnaphthalene	1.48789	1.23326	1.19759	1.23086	1.25998	1.22771	AVRG	1.27288	1.27288					8.42033	
9 Acenaphthylene	2.56000	1.96849	2.04153	2.03095	2.09643	2.03067	AVRG	2.12135	2.12135					10.30995	
11 Acenaphthene	1.79876	1.30683	1.36792	1.33664	1.40833	1.36138	AVRG	1.42998	1.42998					12.85297	
12 Dibenzofuran	2.43340	1.83887	1.92485	1.87815	1.93976	1.87049	AVRG	1.98092	1.98092					11.34467	
13 1,6,7-Trimethylnaphthalene	1.49778	1.18437	1.23317	1.24241	1.28414	1.26447	AVRG	1.28439	1.28439					8.55157	
14 Fluorene	2.03301	1.53014	1.56057	1.54006	1.61010	1.57015	AVRG	1.64067	1.64067					11.83742	
16 Phenanthrene	1.29278	0.98704	1.05359	1.03961	1.06205	1.03662	AVRG	1.07861	1.07861					10.02284	
17 Anthracene	1.19516	0.94080	1.05452	1.02909	1.07561	1.04098	AVRG	1.05603	1.05603					7.80539	
18 Dibenzothiophene	1.17102	0.94775	1.00921	0.99280	1.03977	1.00084	AVRG	1.02690	1.02690					7.46170	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2018 10:49
 End Cal Date : 03-AUG-2018 13:16
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Last Edit : 03-Aug-2018 15:34 jiangjing

Compound	0.100000		0.500000		1.0000		2.5000		5.0000		10.0000		Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2					
19 Carbazole	1.09241	0.88158	0.91739	0.92595	0.97400	0.94259	AVRG		0.95565		0.95565		7.69573		
20 1-Methylphenanthrene	0.95664	0.79100	0.83930	0.83721	0.87284	0.86129	AVRG		0.85971		0.85971		6.41632		
22 Fluoranthene	1.46792	1.18609	1.21227	1.21654	1.25177	1.18973	AVRG		1.25405		1.25405		8.56283		
23 Pyrene	1.47101	1.07627	1.18380	1.12758	1.16818	1.11329	AVRG		1.19002		1.19002		12.01379		
24 Benzo (a) anthracene	1.36653	1.04946	1.13270	1.08700	1.14966	1.11883	AVRG		1.15070		1.15070		9.69507		
27 Chrysene	1.25937	0.99236	1.07033	1.04275	1.09897	1.06176	AVRG		1.08759		1.08759		8.39509		
28 Benzo (b) fluoranthene	1.38656	1.15339	1.23620	1.19595	1.29843	1.21267	AVRG		1.24720		1.24720		6.68765		
29 Benzo (k) fluoranthene	1.50250	1.08611	1.20004	1.17345	1.24473	1.20243	AVRG		1.23488		1.23488		11.44586		
30 Benzo (j) fluoranthene	1.40465	1.03848	1.10944	1.14441	1.19603	1.13016	AVRG		1.17053		1.17053		10.73492		
31 Total Benzo fluoranthenes	1.42905	1.07376	1.17285	1.17615	1.24329	1.16790	AVRG		1.21050		1.21050		9.90964		
32 Benzo (a) pyrene	1.34787	1.02437	1.07083	1.07363	1.14186	1.09184	AVRG		1.12507		1.12507		10.26991		
34 Benzo (e) pyrene	1.39049	1.08138	1.18055	1.15959	1.21348	1.16155	AVRG		1.19784		1.19784		8.67576		
35 Perylene	1.42603	1.07671	1.09322	1.08693	1.16784	1.11301	AVRG		1.16062		1.16062		11.54534		
37 Indeno(1,2,3-cd)pyrene	1.46971	1.04068	1.08428	1.10880	1.20541	1.20238	AVRG		1.18521		1.18521		12.99207		
38 Dibenzo(a,h)anthracene	1.16176	0.86576	0.89900	0.94955	1.04758	1.06545	AVRG		0.99818		0.99818		11.28628		
39 Benzo (g,h,i)perylene	9770	34187	71473	173563	363409	736290	LI NR	0.02480	0.98308		0.98308		0.99954		
\$ 3 2-Methylnaphthalene-d10	0.80767	0.63442	0.68322	0.68153	0.73182	0.70518	AVRG		0.70730		0.70730		8.30074		
\$ 21 Fluoranthene-d10	1.51619	1.14319	1.21298	1.22305	1.26283	1.22020	AVRG		1.26307		1.26307		10.28568		
\$ 36 Dibenzo(a,h)anthracene-d14	1.02811	0.76696	0.81493	0.86660	0.94716	0.95949	AVRG		0.89721		0.89721		10.94130		

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2018 10:49
 End Cal Date : 03-AUG-2018 13:16
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Last Edit : 03-Aug-2018 15:34 jiangqing

Curve	Formula	Units
Averaged	Ant = Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
Batch File: \\target\share\chem3\nt8.i\20180803.b
Inst ID: nt8.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT06
FILENAME: N818080302 N818080304 N818080305 N818080306 N818080307
INJ. DATE: 03-AUG-2018 03-AUG-2018 03-AUG-2018 03-AUG-2018 03-AUG-2018
INJ. TIME: 10:49 11:28 11:55 12:22 12:49 13:16

R 08/03/18

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 1 Naphthalene-d8	4.535	4.532	4.529	4.529	4.529	4.529	4.529	1.529-7.529	4.530	0.003
2 Naphthalene	4.564	4.560	4.557	4.557	4.557	4.557	4.557	1.557-7.557	4.559	0.003
\$ 3 2-Methylnaphthalene-d1	5.259	5.259	5.256	5.256	5.256	5.256	5.256	2.256-8.256	5.257	0.002
4 2-Methylnaphthalene	5.307	5.303	5.300	5.300	5.300	5.303	5.300	2.300-8.300	5.302	0.003
5 1-methylnaphthalene	5.500	5.499	5.496	5.496	5.496	5.499	5.496	2.496-8.496	5.498	0.002
6 2-Chloronaphthalene	5.986	5.983	5.980	5.980	5.980	5.980	5.980	2.980-8.980	5.982	0.003
7 Biphenyl	5.968	5.964	5.958	5.961	5.961	5.964	5.961	2.961-8.961	5.963	0.003
8 2,6-Dimethylnaphthalen	6.002	6.002	5.996	5.996	5.996	5.999	5.996	2.996-8.996	5.998	0.003
9 Acenaphthylene	6.682	6.685	6.679	6.679	6.682	6.682	6.679	3.679-9.679	6.681	0.002
* 10 Acenaphthene-d10	6.799	6.796	6.793	6.793	6.793	6.789	6.793	3.793-9.793	6.794	0.003
11 Acenaphthene	6.847	6.843	6.840	6.840	6.840	6.840	6.840	3.840-9.840	6.842	0.003
12 Dibenzofuran	6.995	6.992	6.986	6.986	6.989	6.989	6.986	3.986-9.986	6.989	0.004
13 1,6,7-Trimethylnaphtha	7.065	7.061	7.055	7.058	7.058	7.061	7.058	4.058-10.058	7.060	0.003
14 Fluorene	7.463	7.463	7.457	7.457	7.457	7.460	7.457	4.457-10.457	7.459	0.003
* 15 Phenanthrene-d10	8.804	8.804	8.797	8.797	8.797	8.797	8.797	5.797-11.797	8.799	0.003
16 Phenanthrene	8.839	8.838	8.832	8.832	8.832	8.835	8.832	5.832-11.832	8.835	0.003
17 Anthracene	8.877	8.876	8.870	8.870	8.870	8.873	8.870	5.870-11.870	8.873	0.003

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

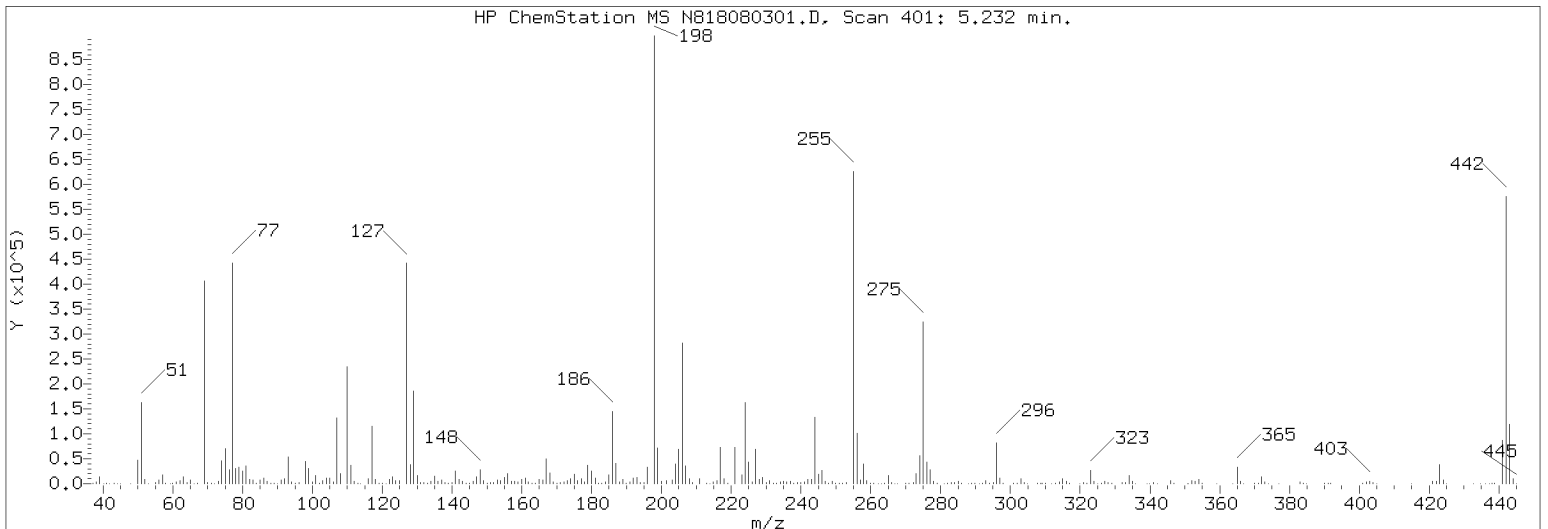
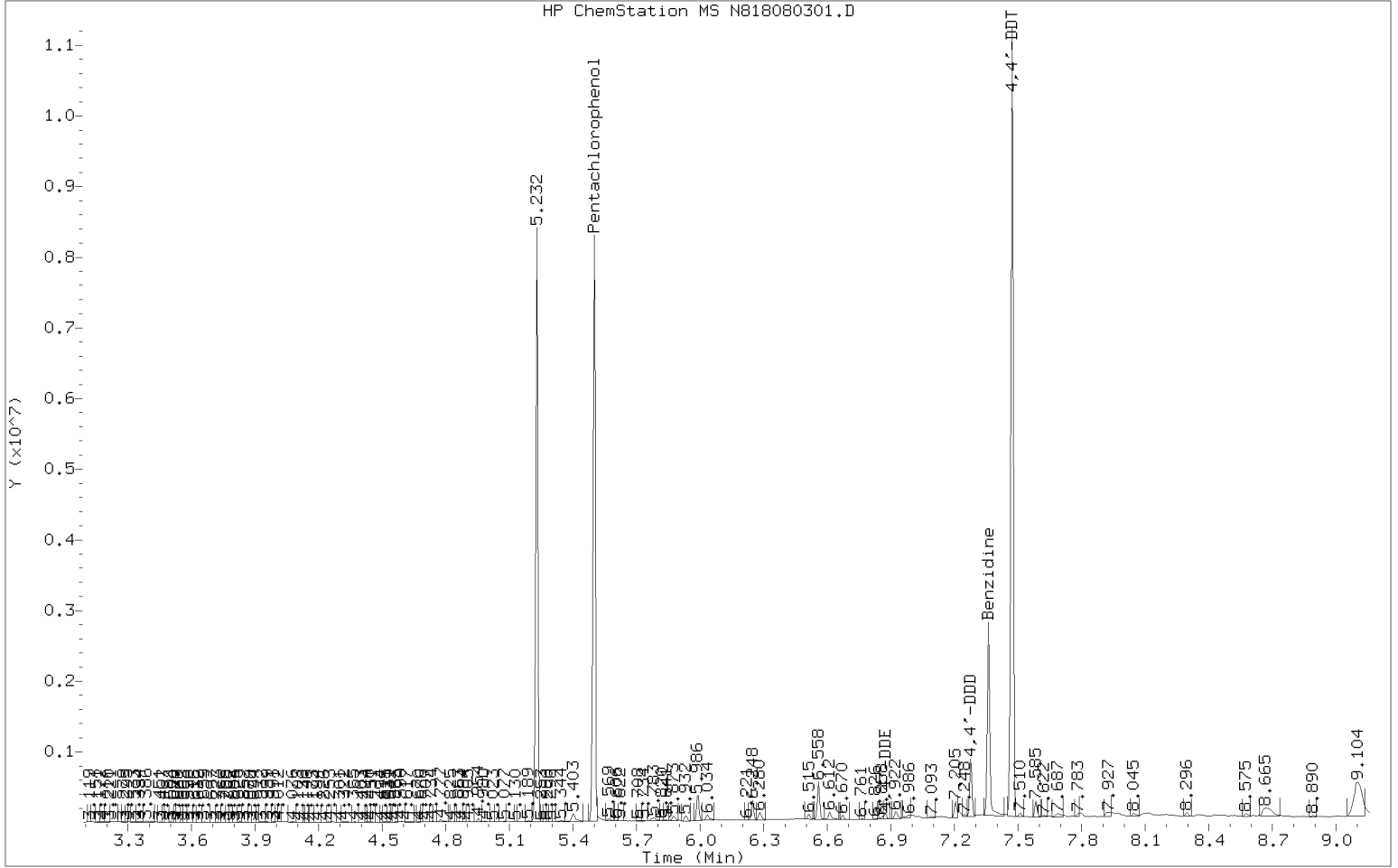
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Batch File: \\target\share\chem3\nt8.i\20180803.b
 Inst ID: nt8.i

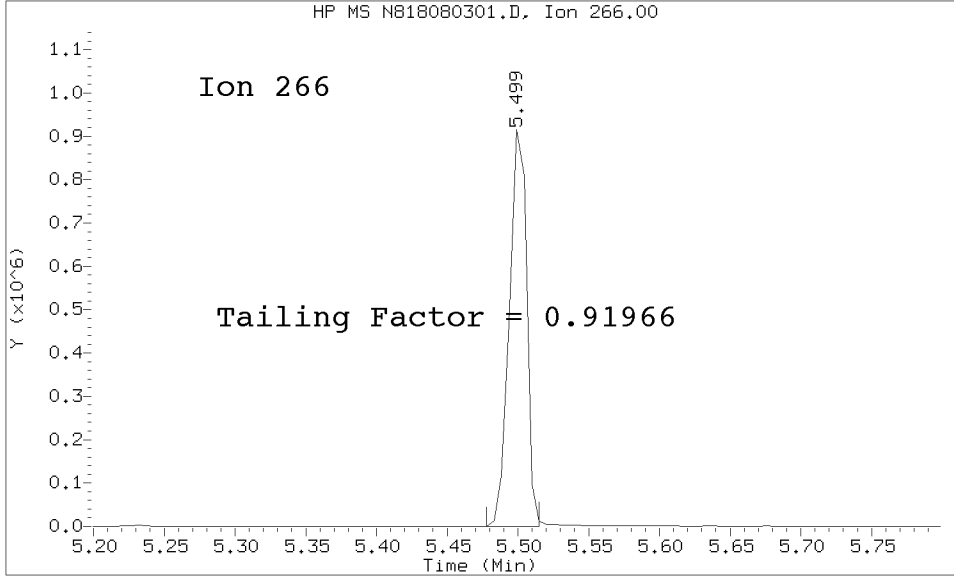
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 Dibenzothiophene	8.677	8.680	8.674	8.674	8.674	8.677	8.674	5.674-11.674	8.676	0.003
19 Carbazole	9.389	9.386	9.379	9.382	9.382	9.385	9.382	6.382-12.382	9.384	0.003
20 1-Methylphenanthrene	9.582	9.585	9.575	9.578	9.578	9.582	9.578	6.578-12.578	9.580	0.003
\$ 21 Fluoranthene-d10	10.458	10.461	10.454	10.454	10.457	10.461	10.454	7.454-13.454	10.457	0.003
22 Fluoranthene	10.495	10.492	10.486	10.489	10.489	10.495	10.489	7.489-13.489	10.491	0.004
23 Pyrene	10.967	10.963	10.957	10.957	10.960	10.963	10.957	7.957-13.957	10.961	0.004
24 Benzo(a)anthracene	13.287	13.284	13.275	13.278	13.281	13.287	13.278	10.278-16.278	13.282	0.005
* 25 Chrysene-d12	13.411	13.414	13.401	13.401	13.401	13.404	13.401	10.401-16.401	13.405	0.006
27 Chrysene	13.484	13.480	13.471	13.468	13.474	13.480	13.468	10.468-16.468	13.476	0.006
28 Benzo(b)fluoranthene	15.899	15.896	15.890	15.893	15.899	15.909	15.893	12.893-18.893	15.898	0.007
29 Benzo(k)fluoranthene	15.959	15.956	15.947	15.953	15.959	15.969	15.953	12.953-18.953	15.957	0.007
30 Benzo(j)fluoranthene	16.035	16.038	16.032	16.032	16.038	16.051	16.032	13.032-19.032	16.038	0.007
31 Total Benzofluoranthene	16.035	15.896	15.890	15.953	15.959	15.969	15.953	12.953-18.953	15.950	0.053
32 Benzo(a)pyrene	16.917	16.911	16.905	16.908	16.911	16.924	16.908	13.908-19.908	16.913	0.007
* 33 Perylene-d12	17.145	17.142	17.136	17.135	17.142	17.142	17.135	14.135-20.135	17.140	0.004
34 Benzo(e)pyrene	16.785	16.791	16.785	16.784	16.794	16.800	16.784	13.784-19.784	16.790	0.006
35 Perylene	17.215	17.215	17.208	17.208	17.214	17.221	17.208	14.208-20.208	17.213	0.005
\$ 36 Dibenzo(a,h)anthracene	19.352	19.352	19.343	19.346	19.355	19.371	19.346	16.346-22.346	19.353	0.010
37 Indeno(1,2,3-cd)pyrene	19.434	19.444	19.434	19.444	19.450	19.469	19.444	16.444-22.444	19.446	0.013
38 Dibenzo(a,h)anthracene	19.441	19.444	19.431	19.437	19.450	19.463	19.437	16.437-22.437	19.444	0.011
39 Benzo(g,h,i)perylene	20.313	20.316	20.307	20.313	20.323	20.339	20.313	17.313-23.313	20.319	0.011

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20180803.b/tune.b/N818080301.D/N818080301.D
Method Used: \20180803.b\tune.b\DFTPP.m Inst: nt8
Injection Date: 03-AUG-2018 10:25 Operator: JZ
Sample Info: SGH0048-TUN1 DFTPP180803
Report Date: 08/03/2018 15:38



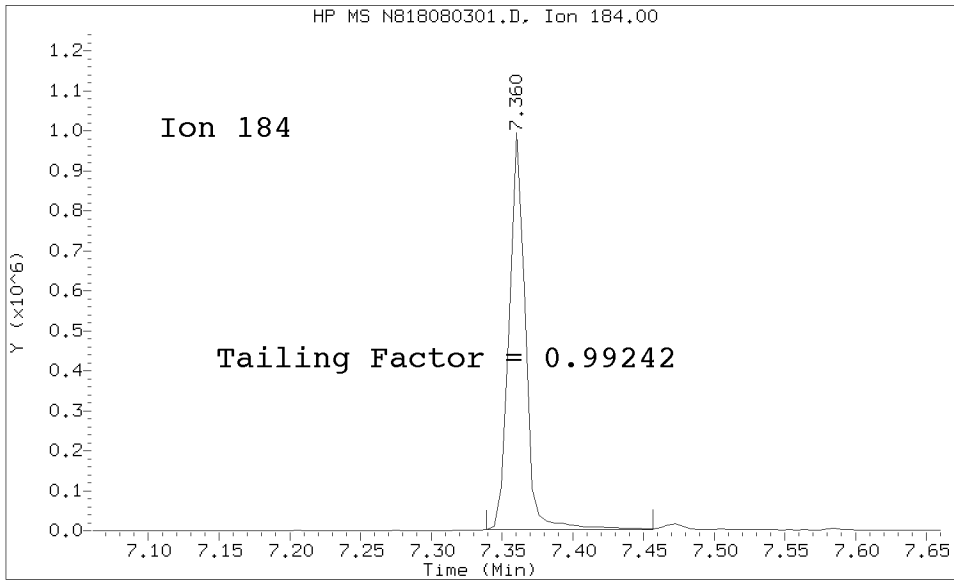
Datafile Analyzed: /20180803.b/tune.b/N818080301.D/N818080301.D
Method Used: \20180803.b\tune.b\DFTPP.m\sw846ddt.m Inst: nt8
Injection Date: 03-AUG-2018 10:25 Operator: JZ
Sample Info: DFTPP180803
Report Date: 08/03/2018 15:38



Pentachlorophenol

=====
Exp. RT = 5.563
Found RT = 5.499

Tail Factor = 0.920 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.430
Found RT = 7.360

Tail Factor = 0.992 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9196557	2.000	PASS
Benzidine	0.9924242	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1426495			N/A
4,4-DDE	6746	0.5	20.0	PASS
4,4-DDD	111057	7.2	20.0	PASS
4,4-DDD + DDE	117803	7.6	20.0	PASS

Tuning Sample, /nt8.i/20180803.b/tune.b/N818080301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	19.87
68	Less than 2.00% of mass 69	0.03 (0.07)
69	Mass 69 relative abundance	48.22
70	Less than 2.00% of mass 69	0.31 (0.65)
127	10.00 - 80.00% of mass 198	49.60
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.77
275	10.00 - 60.00% of mass 198	35.18
365	Greater than 1.00% of mass 198	4.02
441	0.01 - 24.00% of mass 442	10.50 (14.96)
442	50.00 - 200.00% of mass 198	70.21
443	15.00 - 24.00% of mass 442	14.25 (20.30)

Data File: N818080301.D

Spectrum: Avg. Scans 400-402 (5.23), Background Scan 394

Location of Maximum: 198.00

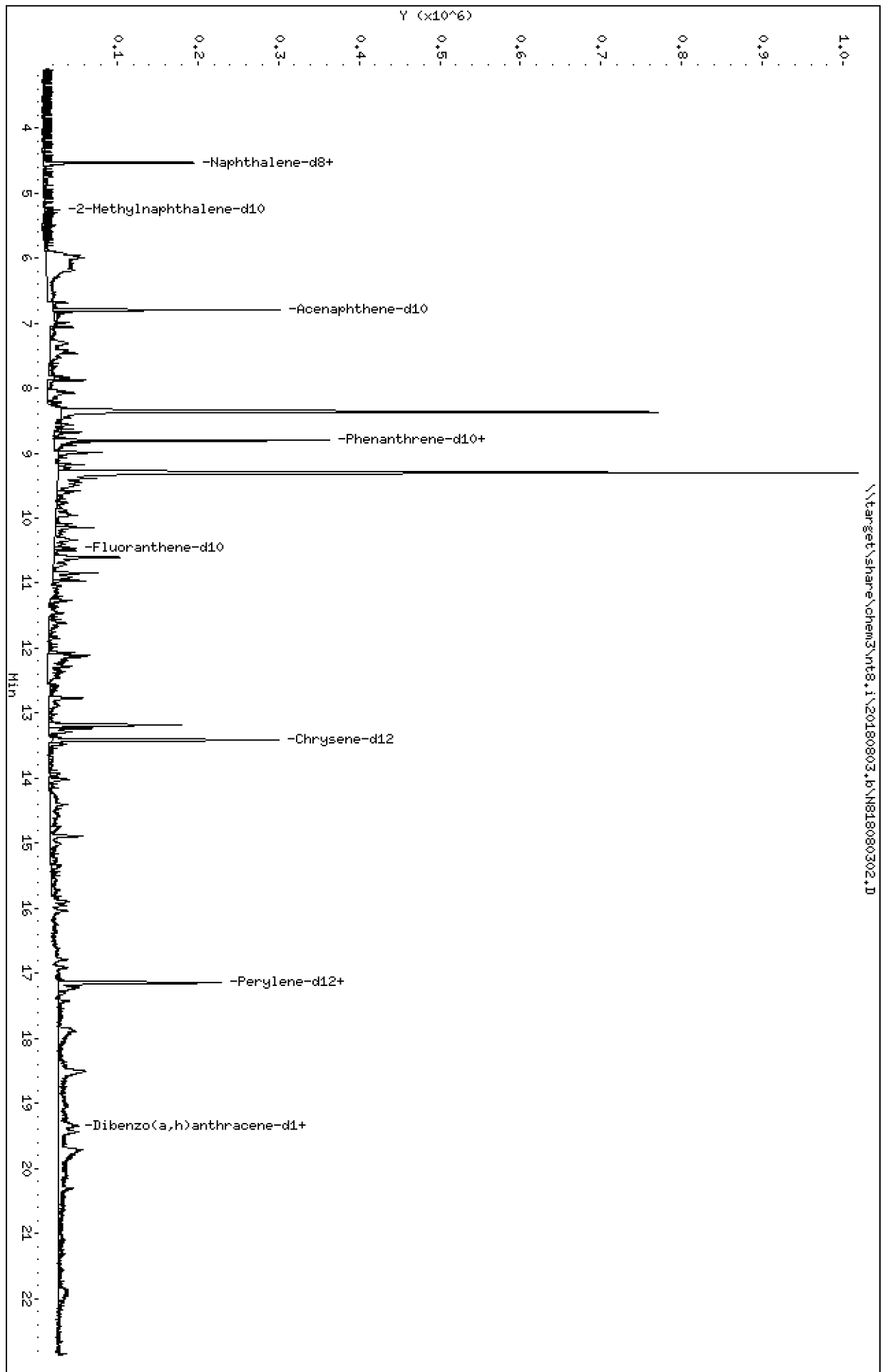
Number of points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	884	126.00	274	211.00	7546	298.00	678
38.00	2339	127.00	302912	212.00	110	301.00	681
39.00	10581	128.00	25888	213.00	570	302.00	1026
40.00	492	129.00	129352	214.00	250	303.00	7393
41.00	220	130.00	11246	215.00	2261	304.00	2169
42.00	10	131.00	1711	216.00	4530	305.00	133
43.00	359	132.00	1202	217.00	51216	308.00	895
44.00	404	133.00	705	218.00	6640	309.00	899
45.00	279	134.00	3807	219.00	782	310.00	828
48.00	91	135.00	10749	220.00	185	312.00	302
50.00	34256	136.00	3989	221.00	45600	313.00	554
51.00	121344	137.00	5532	222.00	969	314.00	2926
52.00	6564	138.00	1505	223.00	11938	315.00	6965
53.00	362	139.00	1045	224.00	109576	316.00	3864
55.00	1143	140.00	1878	225.00	28784	317.00	899
56.00	5789	141.00	17912	226.00	2972	320.00	293
57.00	12472	142.00	5828	227.00	48600	321.00	1797
58.00	623	143.00	3707	228.00	6788	322.00	1254
60.00	427	144.00	969	229.00	9507	323.00	19200
61.00	2936	145.00	973	230.00	1475	324.00	3508
62.00	4230	146.00	3253	231.00	4561	325.00	318
63.00	10201	147.00	8667	232.00	579	326.00	416
64.00	1589	148.00	20352	233.00	1053	327.00	3674
65.00	5029	149.00	4111	234.00	3125	328.00	1871
66.00	447	150.00	1271	235.00	3788	329.00	566
67.00	1008	151.00	2372	236.00	2341	332.00	1538
68.00	198	152.00	1642	237.00	3563	333.00	1757
69.00	294528	153.00	5755	238.00	763	334.00	11758
70.00	1904	154.00	4196	239.00	1854	335.00	3197
71.00	333	155.00	9697	240.00	1583	336.00	275
72.00	11	156.00	14348	241.00	2756	339.00	241
73.00	1763	157.00	3010	242.00	6113	340.00	236
74.00	33416	158.00	3570	243.00	6462	341.00	1774
75.00	49344	159.00	2459	244.00	89712	342.00	584
76.00	19824	160.00	5556	245.00	12379	346.00	4386
77.00	314816	161.00	7759	246.00	18744	347.00	726
78.00	22432	162.00	2237	247.00	3470	351.00	367
79.00	24392	163.00	604	248.00	1047	352.00	5173
80.00	18568	164.00	1018	249.00	3370	353.00	3870
81.00	24712	165.00	6276	250.00	787	354.00	5687
82.00	5718	166.00	5212	251.00	804	355.00	445
83.00	5407	167.00	33976	252.00	984	359.00	382
84.00	665	168.00	15293	253.00	2060	364.00	128
85.00	4460	169.00	2770	254.00	1839	365.00	24536
86.00	8418	170.00	1243	255.00	437824	366.00	3643
87.00	3311	171.00	1657	256.00	70000	367.00	107
88.00	1203	172.00	3058	257.00	5382	370.00	681
89.00	541	173.00	4542	258.00	27984	371.00	1273
90.00	147	174.00	6944	259.00	4603	372.00	9087

91.00	5410	175.00	12840	260.00	907	373.00	2308
92.00	6453	176.00	4117	261.00	878	374.00	214
93.00	39784	177.00	6971	262.00	91	377.00	183
94.00	2734	178.00	2368	263.00	324	383.00	2475
95.00	570	179.00	25368	264.00	751	384.00	627
96.00	1753	180.00	16424	265.00	11577	385.00	109
98.00	31592	181.00	8026	266.00	1930	390.00	1211
99.00	21984	182.00	1465	267.00	140	391.00	866
100.00	1917	183.00	900	268.00	91	392.00	675
101.00	11755	184.00	2184	270.00	560	401.00	519
102.00	780	185.00	12613	271.00	1064	402.00	2756
103.00	4581	186.00	98168	272.00	1534	403.00	4238
104.00	8663	187.00	27768	273.00	13474	404.00	1395
105.00	7832	188.00	2795	274.00	39768	405.00	189
106.00	1430	189.00	6539	275.00	214848	415.00	191
107.00	92248	190.00	1152	276.00	29920	421.00	3648
108.00	14486	191.00	2693	277.00	19728	422.00	3602
109.00	2368	192.00	8344	278.00	3531	423.00	27880
110.00	164800	193.00	9197	279.00	708	424.00	5605
111.00	26120	194.00	1753	282.00	583	425.00	535
112.00	3593	195.00	1444	283.00	1909	433.00	95
113.00	1134	196.00	22376	284.00	1651	434.00	86
114.00	282	198.00	610752	285.00	3571	435.00	266
115.00	348	199.00	47464	286.00	585	436.00	118
116.00	6763	200.00	3832	288.00	287	437.00	778
117.00	81496	201.00	3591	289.00	720	438.00	1026
118.00	6010	203.00	5517	290.00	652	439.00	716
119.00	548	204.00	26720	291.00	467	441.00	64144
120.00	1222	205.00	45464	292.00	1018	442.00	428800
121.00	602	206.00	190208	293.00	4019	443.00	87048
122.00	6770	207.00	24272	294.00	1065	444.00	7821
123.00	10219	208.00	6786	295.00	1438	445.00	491
124.00	4746	209.00	2215	296.00	60688		
125.00	4324	210.00	1529	297.00	8342		

Data File: \\target\share\chem3\nt8.1\20180803.b\N818080302.D
Date: 03-AUG-2018 10:49
Client ID:
Sample Info: IC01180803,
Column phase: Rxi-17s11

Instrument: nt8.1
Operator: JZ
Column diameter: 0.25



ARI Labs, Inc.

Semivolatle Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180803.b\N818080302.D
 Lab Smp Id: SGH0048-CAL1
 Inj Date : 03-AUG-2018 10:49
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC01180803,
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Meth Date : 03-Aug-2018 15:34 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 2 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1 Naphthalene-d8	136	4.535	4.528	(1.000)	140256	2.00000	
2 Naphthalene	128	4.563	4.557	(1.006)	8412	0.10000	0.1100
\$ 3 2-Methylnaphthalene-d10	152	5.259	5.255	(1.160)	5664	0.10000	0.1142
4 2-Methylnaphthalene	141	5.306	5.300	(1.170)	4677	0.10000	0.1091
5 1-methylnaphthalene	141	5.499	5.496	(1.213)	4885	0.10000	0.1107
6 2-Chloronaphthalene	162	5.986	5.980	(1.320)	5233	0.10000	0.1138
7 Biphenyl	154	5.967	5.961	(0.878)	7375	0.10000	0.1156
8 2,6-Dimethylnaphthalene	156	6.002	5.995	(0.883)	5418	0.10000	0.1169
9 Acenaphthylene	152	6.682	6.678	(0.983)	9322	0.10000	0.1207
* 10 Acenaphthene-d10	164	6.799	6.792	(1.000)	72828	2.00000	
11 Acenaphthene	153	6.846	6.840	(1.007)	6550	0.10000	0.1258
12 Dibenzofuran	168	6.995	6.985	(1.029)	8861	0.10000	0.1228
13 1,6,7-Trimethylnaphthalene	170	7.064	7.058	(1.039)	5454	0.10000	0.1166
14 Fluorene	166	7.463	7.456	(1.098)	7403	0.10000	0.1239
18 Dibenzothiophene	184	8.677	8.674	(0.986)	8685	0.10000	0.1140
* 15 Phenanthrene-d10	188	8.803	8.797	(1.000)	148332	2.00000	
16 Phenanthrene	178	8.838	8.832	(1.004)	9588	0.10000	0.1199
17 Anthracene	178	8.876	8.870	(1.008)	8864	0.10000	0.1132
19 Carbazole	167	9.388	9.382	(1.066)	8102	0.10000	0.1143
20 1-Methylphenanthrene	192	9.581	9.578	(1.088)	7095	0.10000	0.1113
22 Fluoranthene	202	10.495	10.488	(1.192)	10887	0.10000	0.1171
\$ 21 Fluoranthene-d10	212	10.457	10.454	(1.188)	11245	0.10000	0.1200
23 Pyrene	202	10.966	10.956	(0.818)	12629	0.10000	0.1236
24 Benzo(a)anthracene	228	13.287	13.277	(0.991)	11732	0.10000	0.1188
* 25 Chrysene-d12	240	13.410	13.401	(1.000)	171705	2.00000	
27 Chrysene	228	13.483	13.467	(1.005)	10812	0.10000	0.1158
28 Benzo(b)fluoranthene	252	15.899	15.892	(0.927)	10572	0.10000	0.1112
29 Benzo(k)fluoranthene	252	15.959	15.952	(0.931)	11456	0.10000	0.1217
30 Benzo(j)fluoranthene	252	16.035	16.031	(0.935)	10710	0.10000	0.1200
31 Total Benzofluoranthenes	252	16.035	15.952	(0.935)	32688	0.30000	0.3542 (M)
34 Benzo(e)pyrene	252	16.784	16.784	(0.979)	10602	0.10000	0.1161
32 Benzo(a)pyrene	252	16.917	16.907	(0.987)	10277	0.10000	0.1198
* 33 Perylene-d12	264	17.145	17.135	(1.000)	152493	2.00000	

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	
35 Perylene	252		17.214	17.208	(1.004)	10873	0.10000	0.1229
\$ 36 Dibenzo(a,h)anthracene-d14	292		19.352	19.345	(1.129)	7839	0.10000	0.1146 (M)
37 Indeno(1,2,3-cd)pyrene	276		19.434	19.443	(1.134)	11206	0.10000	0.1240
38 Dibenzo(a,h)anthracene	278		19.440	19.437	(1.134)	8858	0.10000	0.1164
39 Benzo(g,h,i)perylene	276		20.313	20.313	(1.185)	9770	0.10000	0.1799

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-AUG-2018
 Lab File ID: N818080302.D Calibration Time: 12:22
 Lab Smp Id: SGH0048-CAL1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	140256	6.35
10 Acenaphthene-d10	72272	36136	144544	72828	0.77
15 Phenanthrene-d10	156058	78029	312116	148332	-4.95
25 Chrysene-d12	174389	87195	348778	171705	-1.54
33 Perylene-d12	150701	75351	301402	152493	1.19

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.53	4.03	5.03	4.54	0.14
10 Acenaphthene-d10	6.79	6.29	7.29	6.80	0.10
15 Phenanthrene-d10	8.80	8.30	9.30	8.80	0.07
25 Chrysene-d12	13.40	12.90	13.90	13.41	0.07
33 Perylene-d12	17.14	16.64	17.64	17.15	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.

REVIEW SUMMARY FOR FILE - N818080302.D

Lab ID: SGH0048-CAL1

nt8.i, 20180803.b\FSIMPNA180803.m, 03-AUG-2018 10:49

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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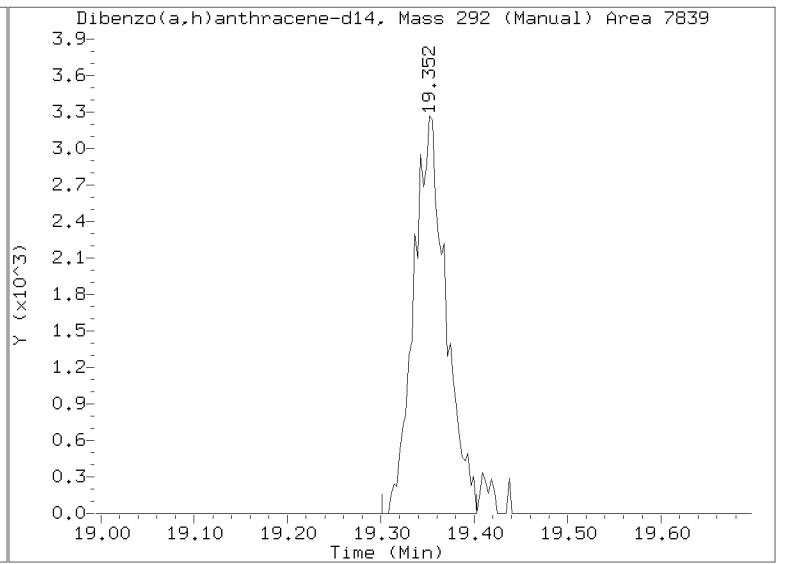
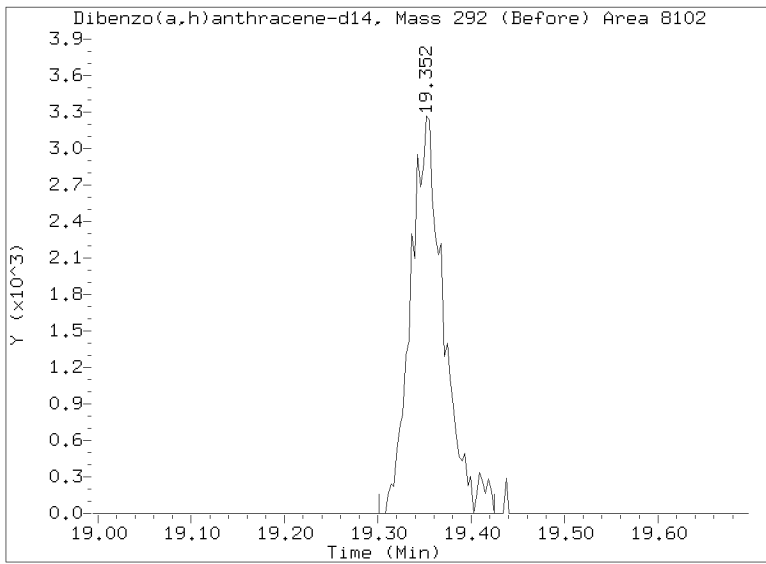
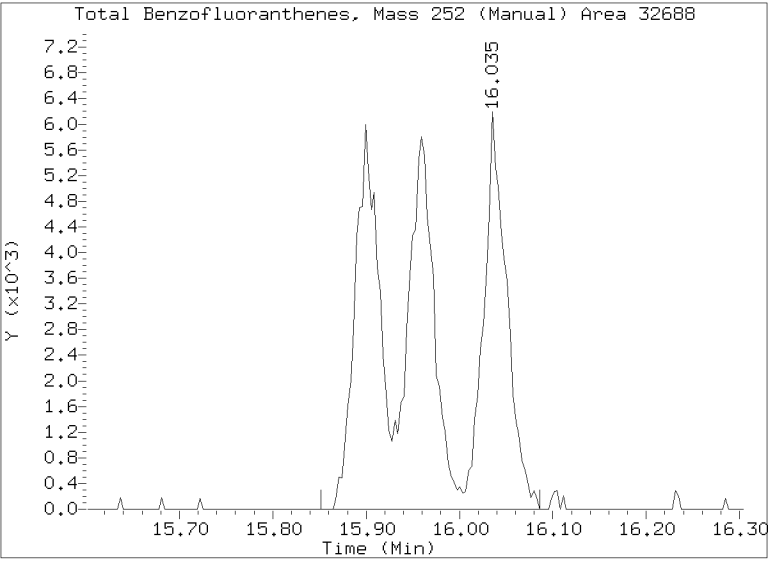
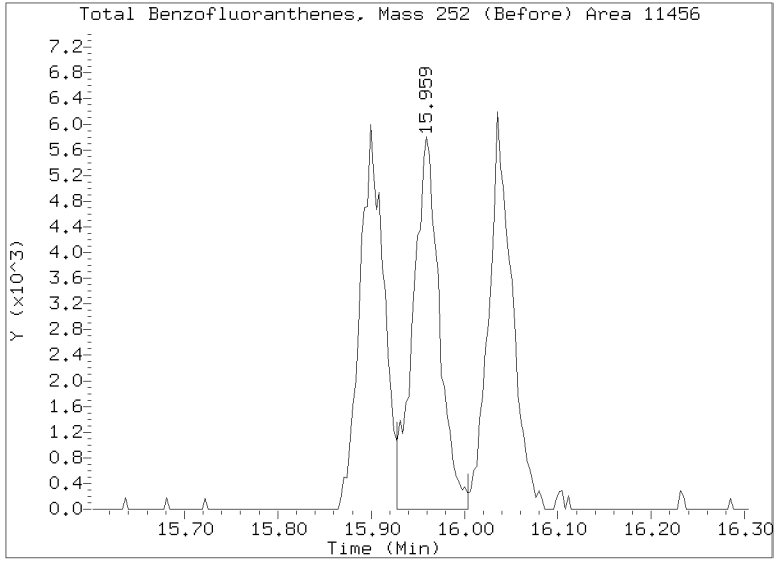
NONE

On Column LOD for nt8.i, 20180803.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180803.b/N818080302.D
Injection Date: 03-AUG-2018 10:49
Lab ID:SGH0048-CAL1 Client ID:
Report Date: 08/03/2018 15:36



Data File: \\target\share\chem3\nt8.1\20180803.b\N818080303.D

Date: 03-AUG-2018 11:28

Client ID:

Sample Info: IC05180803,

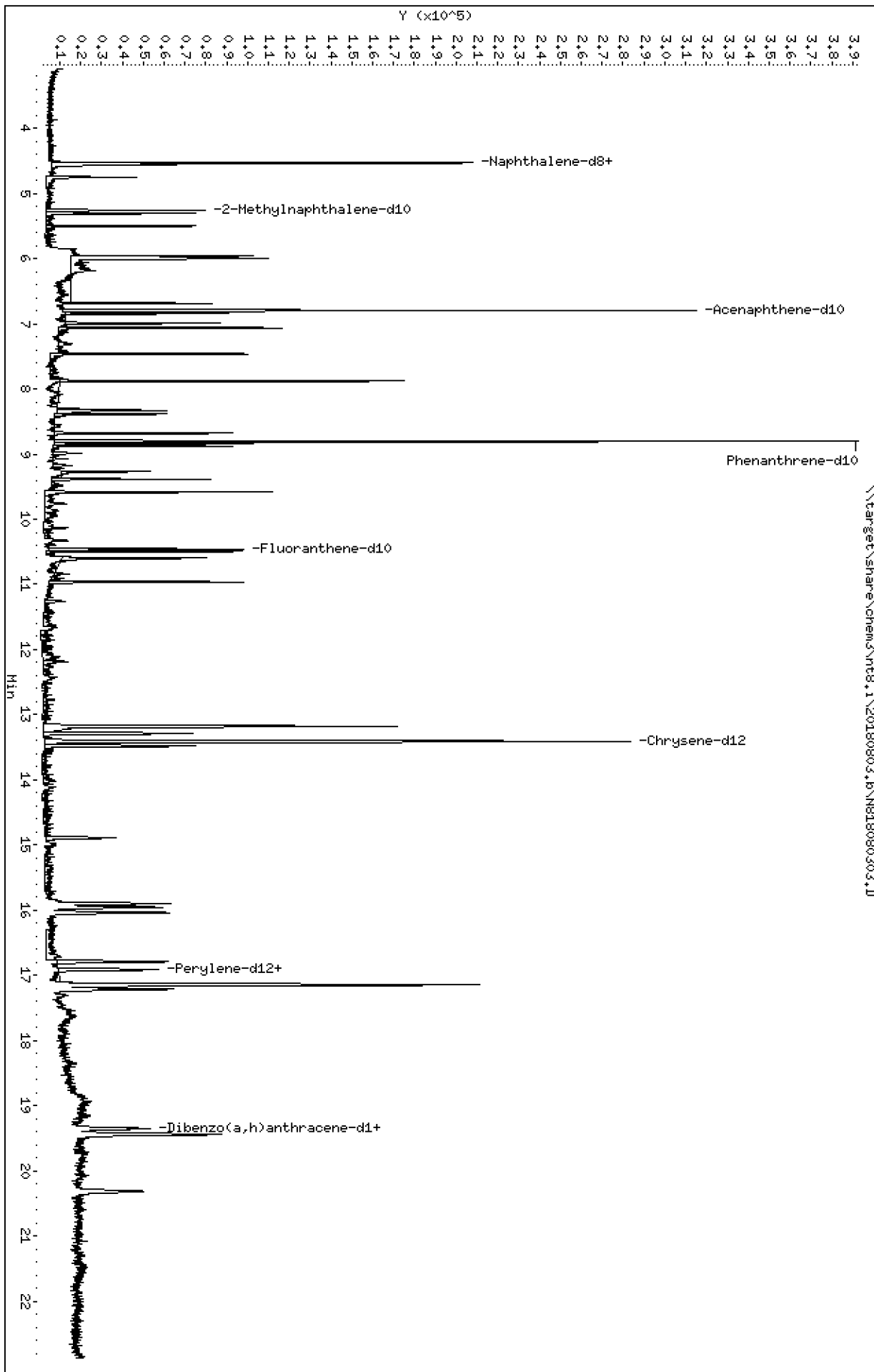
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180803.b\N818080303.D
 Lab Smp Id: SGH0048-CAL2
 Inj Date : 03-AUG-2018 11:28
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC05180803,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Meth Date : 03-Aug-2018 15:34 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 3 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
* 1 Naphthalene-d8	136		4.531	4.528	(1.000)	148571	2.00000	
2 Naphthalene	128		4.560	4.557	(1.006)	37802	0.50000	0.4668
\$ 3 2-Methylnaphthalene-d10	152		5.259	5.255	(1.160)	23564	0.50000	0.4485
4 2-Methylnaphthalene	141		5.303	5.300	(1.170)	21264	0.50000	0.4683
5 1-methylnaphthalene	141		5.499	5.496	(1.214)	21985	0.50000	0.4703
6 2-Chloronaphthalene	162		5.983	5.980	(1.320)	22413	0.50000	0.4601
7 Biphenyl	154		5.964	5.961	(0.878)	32514	0.50000	0.4683
8 2,6-Dimethylnaphthalene	156		6.002	5.995	(0.883)	24443	0.50000	0.4844
9 Acenaphthylene	152		6.685	6.678	(0.984)	39015	0.50000	0.4640
* 10 Acenaphthene-d10	164		6.795	6.792	(1.000)	79279	2.00000	
11 Acenaphthene	153		6.843	6.840	(1.007)	25901	0.50000	0.4569
12 Dibenzofuran	168		6.991	6.985	(1.029)	36446	0.50000	0.4641
13 1,6,7-Trimethylnaphthalene	170		7.061	7.058	(1.039)	23474	0.50000	0.4611
14 Fluorene	166		7.463	7.456	(1.098)	30327	0.50000	0.4663
18 Dibenzothiophene	184		8.680	8.674	(0.986)	39705	0.50000	0.4615
* 15 Phenanthrene-d10	188		8.803	8.797	(1.000)	167576	2.00000	
16 Phenanthrene	178		8.838	8.832	(1.004)	41351	0.50000	0.4575
17 Anthracene	178		8.876	8.870	(1.008)	39414	0.50000	0.4454
19 Carbazole	167		9.385	9.382	(1.066)	36933	0.50000	0.4612
20 1-Methylphenanthrene	192		9.584	9.578	(1.089)	33138	0.50000	0.4600
22 Fluoranthene	202		10.492	10.488	(1.192)	49690	0.50000	0.4729
\$ 21 Fluoranthene-d10	212		10.460	10.454	(1.188)	47893	0.50000	0.4525
23 Pyrene	202		10.963	10.956	(0.817)	50024	0.50000	0.4522
24 Benzo(a)anthracene	228		13.284	13.277	(0.990)	48778	0.50000	0.4560
* 25 Chrysene-d12	240		13.413	13.401	(1.000)	185916	2.00000	
27 Chrysene	228		13.480	13.467	(1.005)	46124	0.50000	0.4562
28 Benzo(b)fluoranthene	252		15.896	15.892	(0.927)	46612	0.50000	0.4624
29 Benzo(k)fluoranthene	252		15.956	15.952	(0.931)	43893	0.50000	0.4398
30 Benzo(j)fluoranthene	252		16.038	16.031	(0.936)	41968	0.50000	0.4436
31 Total Benzofluoranthenes	252		15.896	15.952	(0.927)	130182	1.50000	1.331 (M)
34 Benzo(e)pyrene	252		16.790	16.784	(0.980)	43702	0.50000	0.4514
32 Benzo(a)pyrene	252		16.911	16.907	(0.987)	41398	0.50000	0.4552
* 33 Perylene-d12	264		17.141	17.135	(1.000)	161652	2.00000	

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
=====	=====	=====	=====	=====	=====	=====	=====	
35 Perylene	252	17.214	17.208	(1.004)	43513	0.50000	0.4638	
\$ 36 Dibenzo(a,h)anthracene-d14	292	19.352	19.345	(1.129)	30995	0.50000	0.4274	
37 Indeno(1,2,3-cd)pyrene	276	19.443	19.443	(1.134)	42057	0.50000	0.4390	
38 Dibenzo(a,h)anthracene	278	19.443	19.437	(1.134)	34988	0.50000	0.4337	
39 Benzo(g,h,i)perylene	276	20.316	20.313	(1.185)	34187	0.50000	0.4799	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-AUG-2018
 Lab File ID: N818080303.D Calibration Time: 12:22
 Lab Smp Id: SGH0048-CAL2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	148571	12.66
10 Acenaphthene-d10	72272	36136	144544	79279	9.70
15 Phenanthrene-d10	156058	78029	312116	167576	7.38
25 Chrysene-d12	174389	87195	348778	185916	6.61
33 Perylene-d12	150701	75351	301402	161652	7.27

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.53	4.03	5.03	4.53	0.07
10 Acenaphthene-d10	6.79	6.29	7.29	6.80	0.05
15 Phenanthrene-d10	8.80	8.30	9.30	8.80	0.07
25 Chrysene-d12	13.40	12.90	13.90	13.41	0.09
33 Perylene-d12	17.14	16.64	17.64	17.14	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.

REVIEW SUMMARY FOR FILE - N818080303.D

Lab ID: SGH0048-CAL2

nt8.i, 20180803.b\FSIMPNA180803.m, 03-AUG-2018 11:28

RT	CO-ELUTION COMPOUNDS
19.444	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
19.444	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND

NONE				

On Column LOD for nt8.i, 20180803.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

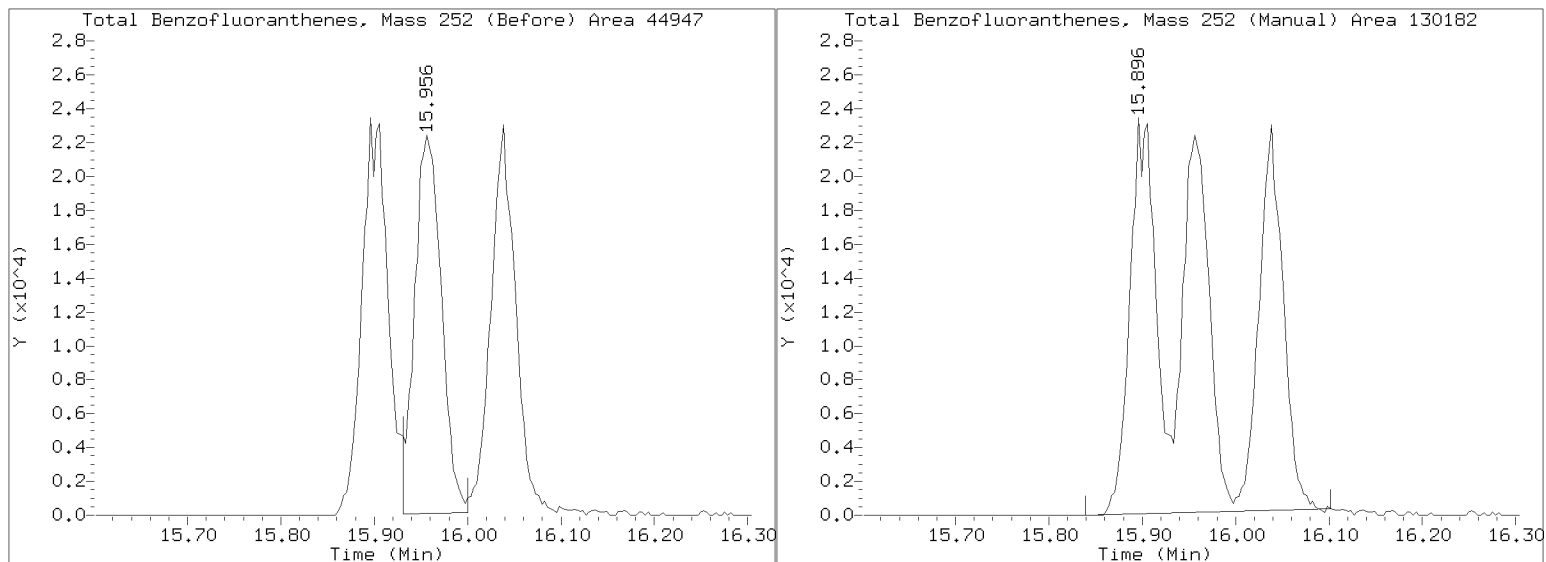
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180803.b/N818080303.D

Injection Date: 03-AUG-2018 11:28

Lab ID:SGH0048-CAL2 Client ID:

Report Date: 08/03/2018 15:36



Data File: \\target\share\chem3\nt8.1\20180803.b\N818080304.D

Date : 03-AUG-2018 11:55

Client ID:

Sample Info: IC1180803,

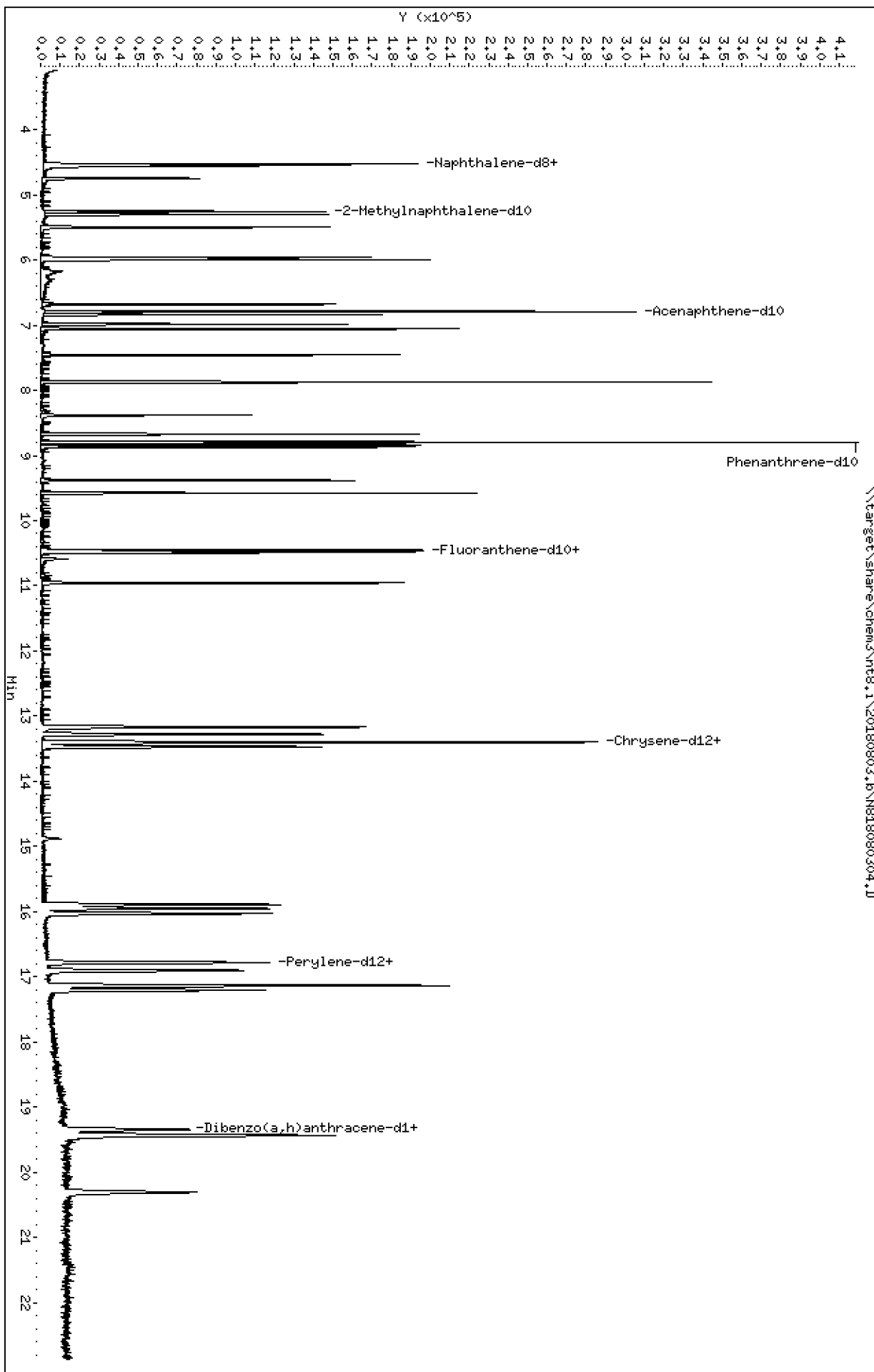
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180803.b\N818080304.D
 Lab Smp Id: SGH0048-CAL3
 Inj Date : 03-AUG-2018 11:55
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC1180803,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Meth Date : 03-Aug-2018 15:34 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 4 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
* 1 Naphthalene-d8	136		4.528	4.528	(1.000)	145175	2.00000	
2 Naphthalene	128		4.557	4.557	(1.006)	78381	1.00000	0.9906
\$ 3 2-Methylnaphthalene-d10	152		5.256	5.255	(1.161)	49593	1.00000	0.9659
4 2-Methylnaphthalene	141		5.300	5.300	(1.170)	44203	1.00000	0.9963
5 1-methylnaphthalene	141		5.496	5.496	(1.214)	45077	1.00000	0.9868
6 2-Chloronaphthalene	162		5.980	5.980	(1.320)	46347	1.00000	0.9738
7 Biphenyl	154		5.958	5.961	(0.877)	68021	1.00000	0.9758
8 2,6-Dimethylnaphthalene	156		5.995	5.995	(0.883)	47663	1.00000	0.9409
9 Acenaphthylene	152		6.678	6.678	(0.983)	81251	1.00000	0.9624
* 10 Acenaphthene-d10	164		6.792	6.792	(1.000)	79598	2.00000	
11 Acenaphthene	153		6.840	6.840	(1.007)	54442	1.00000	0.9566
12 Dibenzofuran	168		6.985	6.985	(1.028)	76607	1.00000	0.9717
13 1,6,7-Trimethylnaphthalene	170		7.055	7.058	(1.039)	49079	1.00000	0.9601
14 Fluorene	166		7.456	7.456	(1.098)	62109	1.00000	0.9512
18 Dibenzothiophene	184		8.674	8.674	(0.986)	86068	1.00000	0.9828
* 15 Phenanthrene-d10	188		8.797	8.797	(1.000)	170565	2.00000	
16 Phenanthrene	178		8.832	8.832	(1.004)	89853	1.00000	0.9768
17 Anthracene	178		8.870	8.870	(1.008)	89932	1.00000	0.9986
19 Carbazole	167		9.379	9.382	(1.066)	78237	1.00000	0.9600
20 1-Methylphenanthrene	192		9.575	9.578	(1.088)	71578	1.00000	0.9763
22 Fluoranthene	202		10.485	10.488	(1.192)	103385	1.00000	0.9667
\$ 21 Fluoranthene-d10	212		10.454	10.454	(1.188)	103446	1.00000	0.9603
23 Pyrene	202		10.957	10.956	(0.818)	108110	1.00000	0.9948
24 Benzo(a)anthracene	228		13.274	13.277	(0.991)	103443	1.00000	0.9844
* 25 Chrysene-d12	240		13.401	13.401	(1.000)	182649	2.00000	
27 Chrysene	228		13.470	13.467	(1.005)	97747	1.00000	0.9841
28 Benzo(b)fluoranthene	252		15.889	15.892	(0.927)	98233	1.00000	0.9912
29 Benzo(k)fluoranthene	252		15.946	15.952	(0.931)	95359	1.00000	0.9718
30 Benzo(j)fluoranthene	252		16.032	16.031	(0.936)	88160	1.00000	0.9478
31 Total Benzofluoranthenes	252		15.889	15.952	(0.927)	279596	3.00000	2.907 (M)
34 Benzo(e)pyrene	252		16.784	16.784	(0.980)	93811	1.00000	0.9856
32 Benzo(a)pyrene	252		16.904	16.907	(0.987)	85092	1.00000	0.9518
* 33 Perylene-d12	264		17.135	17.135	(1.000)	158927	2.00000	

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
=====	=====	=====	=====	=====	=====	=====	=====	
35 Perylene	252	17.208	17.208	(1.004)	86871	1.00000	0.9419	
\$ 36 Dibenzo(a,h)anthracene-d14	292	19.342	19.345	(1.129)	64757	1.00000	0.9083	
37 Indeno(1,2,3-cd)pyrene	276	19.434	19.443	(1.134)	86161	1.00000	0.9148	
38 Dibenzo(a,h)anthracene	278	19.431	19.437	(1.134)	71438	1.00000	0.9006	
39 Benzo(g,h,i)perylene	276	20.307	20.313	(1.185)	71473	1.00000	0.9645	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-AUG-2018
 Lab File ID: N818080304.D Calibration Time: 12:22
 Lab Smp Id: SGH0048-CAL3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	145175	10.08
10 Acenaphthene-d10	72272	36136	144544	79598	10.14
15 Phenanthrene-d10	156058	78029	312116	170565	9.30
25 Chrysene-d12	174389	87195	348778	182649	4.74
33 Perylene-d12	150701	75351	301402	158927	5.46

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.53	4.03	5.03	4.53	0.00
10 Acenaphthene-d10	6.79	6.29	7.29	6.79	0.00
15 Phenanthrene-d10	8.80	8.30	9.30	8.80	0.00
25 Chrysene-d12	13.40	12.90	13.90	13.40	0.00
33 Perylene-d12	17.14	16.64	17.64	17.14	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.

REVIEW SUMMARY FOR FILE - N818080304.D

Lab ID: SGH0048-CAL3

nt8.i, 20180803.b\FSIMPNA180803.m, 03-AUG-2018 11:55

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt8.i, 20180803.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

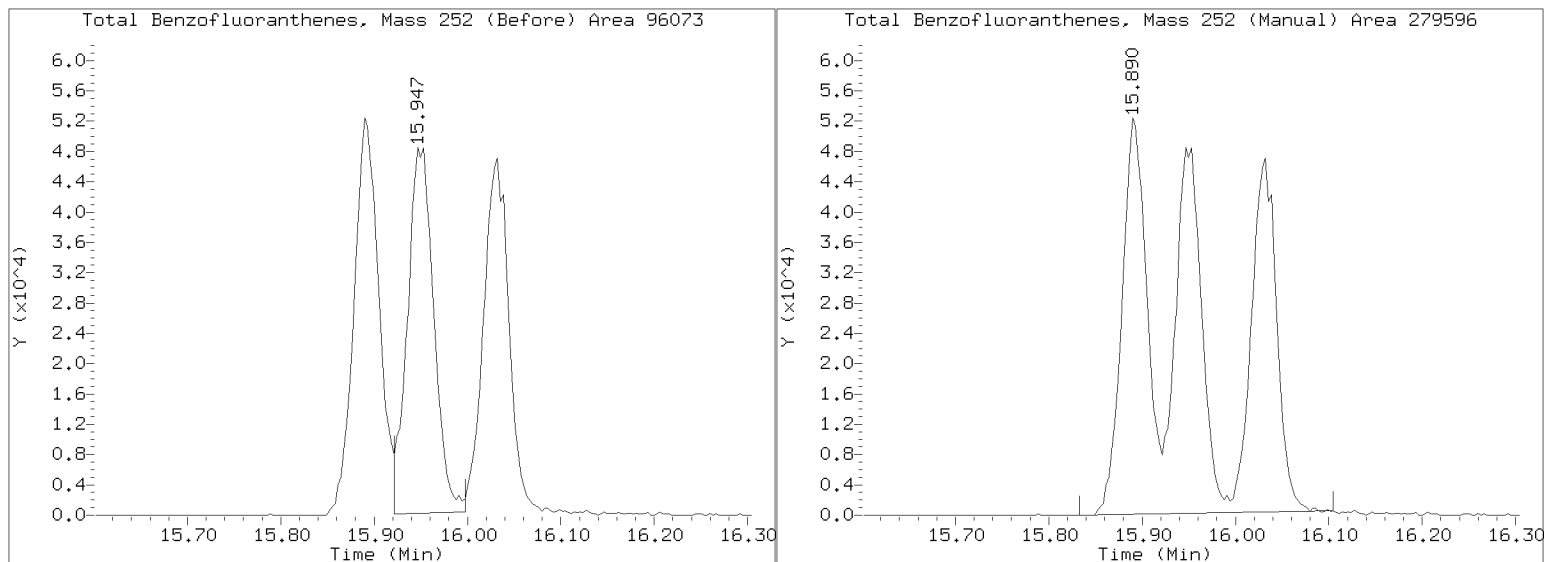
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180803.b/N818080304.D

Injection Date: 03-AUG-2018 11:55

Lab ID:SGH0048-CAL3 Client ID:

Report Date: 08/03/2018 15:36



Data File: \\target\share\chem3\nt8.1\20180803.b\N818080305.D

Date: 03-AUG-2018 12:22

Client ID:

Sample Info: IC25180803,

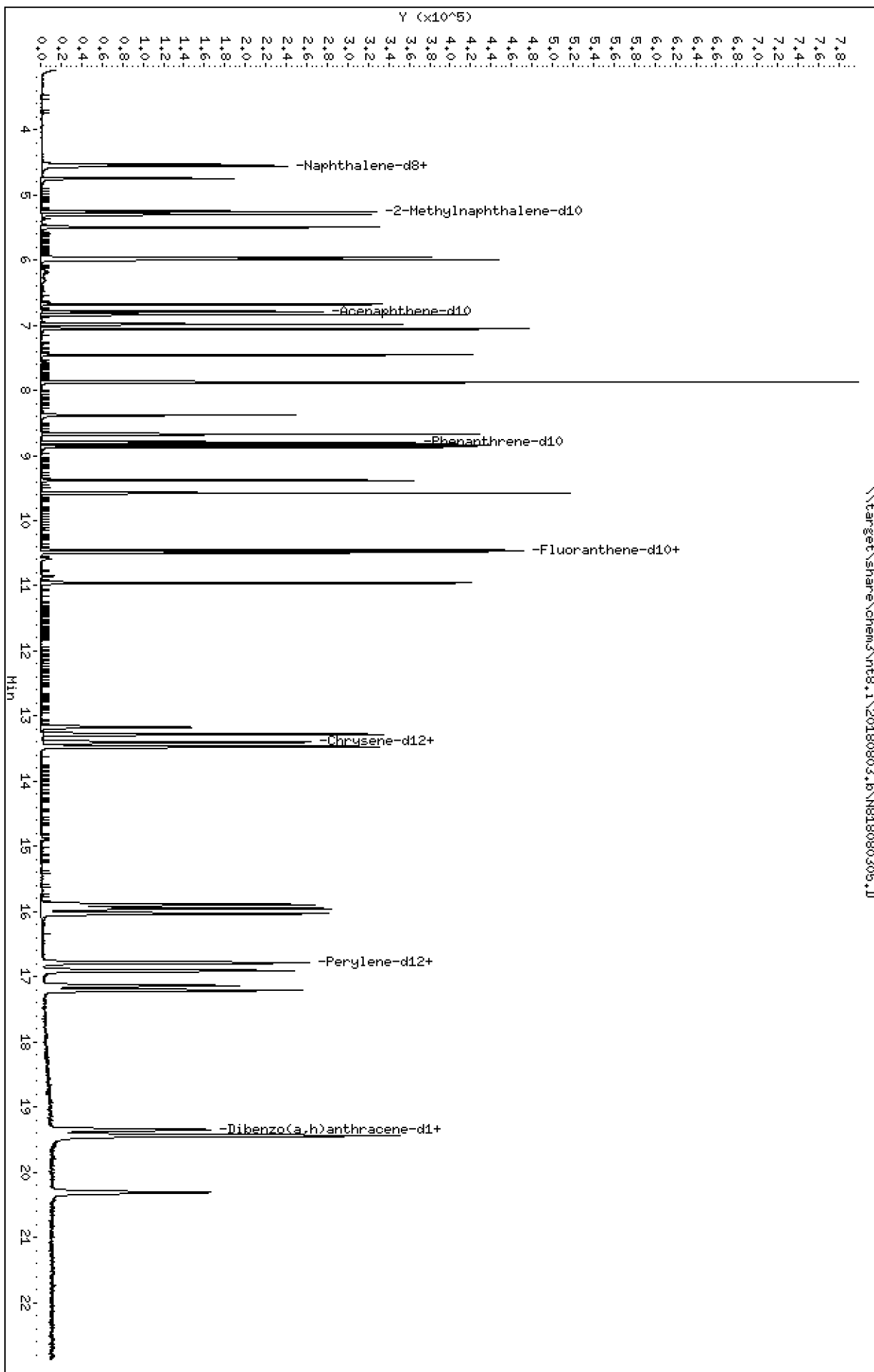
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180803.b\N818080305.D
 Lab Smp Id: SGH0048-CAL4
 Inj Date : 03-AUG-2018 12:22
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC25180803,
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Meth Date : 03-Aug-2018 15:34 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
* 1 Naphthalene-d8	136		4.528	4.528	(1.000)	131877	2.00000	
2 Naphthalene	128		4.557	4.557	(1.006)	174660	2.50000	2.430
\$ 3 2-Methylnaphthalene-d10	152		5.255	5.255	(1.161)	112347	2.50000	2.409
4 2-Methylnaphthalene	141		5.300	5.300	(1.170)	98223	2.50000	2.437
5 1-methylnaphthalene	141		5.496	5.496	(1.214)	100202	2.50000	2.415
6 2-Chloronaphthalene	162		5.980	5.980	(1.320)	105838	2.50000	2.448
7 Biphenyl	154		5.961	5.961	(0.878)	151065	2.50000	2.387
8 2,6-Dimethylnaphthalene	156		5.995	5.995	(0.883)	111196	2.50000	2.417
9 Acenaphthylene	152		6.678	6.678	(0.983)	183476	2.50000	2.393
* 10 Acenaphthene-d10	164		6.792	6.792	(1.000)	72272	2.00000	
11 Acenaphthene	153		6.840	6.840	(1.007)	120752	2.50000	2.337
12 Dibenzofuran	168		6.985	6.985	(1.028)	169672	2.50000	2.370
13 1,6,7-Trimethylnaphthalene	170		7.058	7.058	(1.039)	112239	2.50000	2.418
14 Fluorene	166		7.456	7.456	(1.098)	139129	2.50000	2.347
18 Dibenzothiophene	184		8.674	8.674	(0.986)	193668	2.50000	2.417
* 15 Phenanthrene-d10	188		8.797	8.797	(1.000)	156058	2.00000	
16 Phenanthrene	178		8.832	8.832	(1.004)	202799	2.50000	2.410
17 Anthracene	178		8.870	8.870	(1.008)	200748	2.50000	2.436
19 Carbazole	167		9.382	9.382	(1.066)	180627	2.50000	2.422
20 1-Methylphenanthrene	192		9.578	9.578	(1.089)	163316	2.50000	2.435
22 Fluoranthene	202		10.488	10.488	(1.192)	237314	2.50000	2.425
\$ 21 Fluoranthene-d10	212		10.454	10.454	(1.188)	238583	2.50000	2.421
23 Pyrene	202		10.956	10.956	(0.818)	245797	2.50000	2.369
24 Benzo(a)anthracene	228		13.277	13.277	(0.991)	236952	2.50000	2.362
* 25 Chrysene-d12	240		13.401	13.401	(1.000)	174389	2.00000	
27 Chrysene	228		13.467	13.467	(1.005)	227305	2.50000	2.397
28 Benzo(b)fluoranthene	252		15.892	15.892	(0.927)	225288	2.50000	2.397
29 Benzo(k)fluoranthene	252		15.952	15.952	(0.931)	221050	2.50000	2.376
30 Benzo(j)fluoranthene	252		16.031	16.031	(0.936)	215579	2.50000	2.444
31 Total Benzofluoranthenes	252		15.952	15.952	(0.931)	664677	7.50000	7.287 (M)
34 Benzo(e)pyrene	252		16.784	16.784	(0.980)	218440	2.50000	2.420
32 Benzo(a)pyrene	252		16.907	16.907	(0.987)	202247	2.50000	2.386
* 33 Perylene-d12	264		17.135	17.135	(1.000)	150701	2.00000	

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
35 Perylene	252		17.208	17.208	(1.004)	204752	2.50000	2.341
\$ 36 Dibenzo(a,h)anthracene-d14	292		19.345	19.345	(1.129)	163246	2.50000	2.415
37 Indeno(1,2,3-cd)pyrene	276		19.443	19.443	(1.135)	208872	2.50000	2.339
38 Dibenzo(a,h)anthracene	278		19.437	19.437	(1.134)	178873	2.50000	2.378
39 Benzo(g,h,i)perylene	276		20.313	20.313	(1.185)	173563	2.50000	2.393

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-AUG-2018
 Lab File ID: N818080305.D Calibration Time: 12:22
 Lab Smp Id: SGH0048-CAL4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	131877	0.00
10 Acenaphthene-d10	72272	36136	144544	72272	0.00
15 Phenanthrene-d10	156058	78029	312116	156058	0.00
25 Chrysene-d12	174389	87195	348778	174389	0.00
33 Perylene-d12	150701	75351	301402	150701	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.53	4.03	5.03	4.53	0.00
10 Acenaphthene-d10	6.79	6.29	7.29	6.79	0.00
15 Phenanthrene-d10	8.80	8.30	9.30	8.80	0.00
25 Chrysene-d12	13.40	12.90	13.90	13.40	0.00
33 Perylene-d12	17.14	16.64	17.64	17.14	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.

REVIEW SUMMARY FOR FILE - N818080305.D

Lab ID: SGH0048-CAL4

nt8.i, 20180803.b\FSIMPNA180803.m, 03-AUG-2018 12:22

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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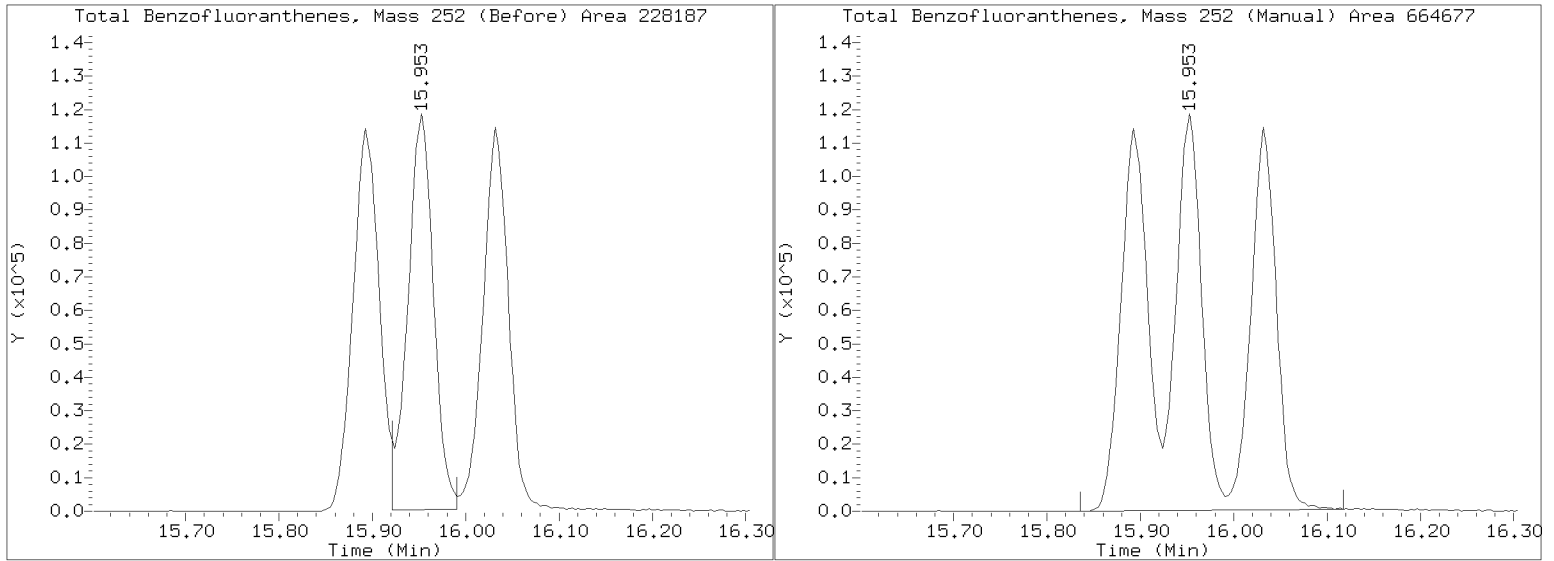
NONE

On Column LOD for nt8.i, 20180803.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180803.b/N818080305.D
Injection Date: 03-AUG-2018 12:22
Lab ID:SGH0048-CAL4 Client ID:
Report Date: 08/03/2018 15:36



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180803.b

Instrument: nt8.i Date: 03-AUG-2018 Method: 20180803.b\FSIMPNA180803.m

INITIAL CAL: 03-AUG-2018

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: N818080305.D 03-AUG-2018 12:22

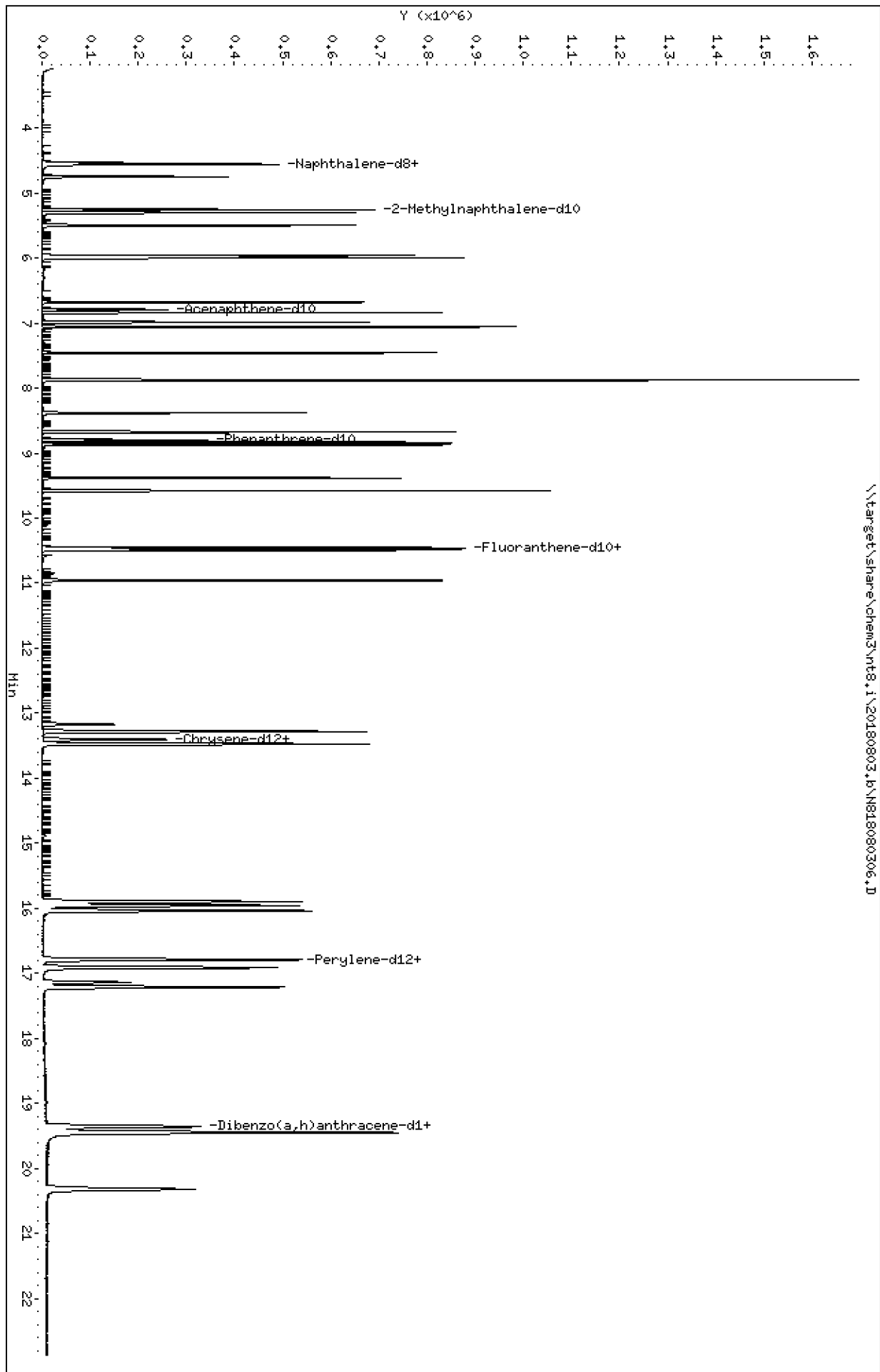
Compound	%D

NO Q-FLAGS	

Data File: \\target\share\chem3\nt8.1\20180803.b\N818080306.D
Date: 03-AUG-2018 12:49
Client ID:
Sample Info: ICS180803,
Column phase: Rxi-17s11

Instrument: nt8.1
Operator: JZ
Column diameter: 0.25

\\target\share\chem3\nt8.1\20180803.b\N818080306.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180803.b\N818080306.D
 Lab Smp Id: SGH0048-CAL5
 Inj Date : 03-AUG-2018 12:49
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC5180803,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Meth Date : 03-Aug-2018 15:34 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 6 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
* 1 Naphthalene-d8	136		4.528	4.528	(1.000)	124846	2.00000	
2 Naphthalene	128		4.557	4.557	(1.006)	348783	5.00000	5.126
\$ 3 2-Methylnaphthalene-d10	152		5.255	5.255	(1.161)	228411	5.00000	5.173
4 2-Methylnaphthalene	141		5.300	5.300	(1.170)	195669	5.00000	5.128
5 1-methylnaphthalene	141		5.496	5.496	(1.214)	200808	5.00000	5.112
6 2-Chloronaphthalene	162		5.979	5.980	(1.320)	209482	5.00000	5.118
7 Biphenyl	154		5.961	5.961	(0.878)	301062	5.00000	4.988
8 2,6-Dimethylnaphthalene	156		5.995	5.995	(0.883)	217100	5.00000	4.949
9 Acenaphthylene	152		6.681	6.678	(0.984)	361226	5.00000	4.941
* 10 Acenaphthene-d10	164		6.792	6.792	(1.000)	68922	2.00000	
11 Acenaphthene	153		6.840	6.840	(1.007)	242662	5.00000	4.924
12 Dibenzofuran	168		6.988	6.985	(1.029)	334231	5.00000	4.896
13 1,6,7-Trimethylnaphthalene	170		7.058	7.058	(1.039)	221264	5.00000	4.999
14 Fluorene	166		7.456	7.456	(1.098)	277429	5.00000	4.907
18 Dibenzothiophene	184		8.673	8.674	(0.986)	386284	5.00000	5.063
* 15 Phenanthrene-d10	188		8.797	8.797	(1.000)	148603	2.00000	
16 Phenanthrene	178		8.832	8.832	(1.004)	394558	5.00000	4.923
17 Anthracene	178		8.870	8.870	(1.008)	399597	5.00000	5.093
19 Carbazole	167		9.382	9.382	(1.066)	361847	5.00000	5.096
20 1-Methylphenanthrene	192		9.578	9.578	(1.089)	324266	5.00000	5.076
22 Fluoranthene	202		10.488	10.488	(1.192)	465043	5.00000	4.991
\$ 21 Fluoranthene-d10	212		10.457	10.454	(1.189)	469150	5.00000	4.999
23 Pyrene	202		10.960	10.956	(0.818)	487664	5.00000	4.908
24 Benzo(a)anthracene	228		13.280	13.277	(0.991)	479934	5.00000	4.995
* 25 Chrysene-d12	240		13.401	13.401	(1.000)	166983	2.00000	
27 Chrysene	228		13.473	13.467	(1.005)	458774	5.00000	5.052
28 Benzo(b)fluoranthene	252		15.899	15.892	(0.927)	474125	5.00000	5.205
29 Benzo(k)fluoranthene	252		15.959	15.952	(0.931)	454516	5.00000	5.040
30 Benzo(j)fluoranthene	252		16.038	16.031	(0.936)	436733	5.00000	5.109
31 Total Benzofluoranthenes	252		15.959	15.952	(0.931)	1361969	15.0000	15.41 (M)
34 Benzo(e)pyrene	252		16.793	16.784	(0.980)	443107	5.00000	5.065
32 Benzo(a)pyrene	252		16.910	16.907	(0.987)	416953	5.00000	5.075
* 33 Perylene-d12	264		17.141	17.135	(1.000)	146061	2.00000	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====
35 Perylene	252	17.214	17.208	(1.004)	426439	5.00000	5.031
\$ 36 Dibenzo(a,h)anthracene-d14	292	19.355	19.345	(1.129)	345858	5.00000	5.278
37 Indeno(1,2,3-cd)pyrene	276	19.449	19.443	(1.135)	440160	5.00000	5.085
38 Dibenzo(a,h)anthracene	278	19.449	19.437	(1.135)	382527	5.00000	5.247
39 Benzo(g,h,i)perylene	276	20.322	20.313	(1.186)	363409	5.00000	5.111

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-AUG-2018
 Lab File ID: N818080306.D Calibration Time: 12:22
 Lab Smp Id: SGH0048-CAL5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	124846	-5.33
10 Acenaphthene-d10	72272	36136	144544	68922	-4.64
15 Phenanthrene-d10	156058	78029	312116	148603	-4.78
25 Chrysene-d12	174389	87195	348778	166983	-4.25
33 Perylene-d12	150701	75351	301402	146061	-3.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.53	4.03	5.03	4.53	-0.00
10 Acenaphthene-d10	6.79	6.29	7.29	6.79	-0.00
15 Phenanthrene-d10	8.80	8.30	9.30	8.80	-0.00
25 Chrysene-d12	13.40	12.90	13.90	13.40	-0.00
33 Perylene-d12	17.14	16.64	17.64	17.14	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.

REVIEW SUMMARY FOR FILE - N818080306.D

Lab ID: SGH0048-CAL5

nt8.i, 20180803.b\FSIMPNA180803.m, 03-AUG-2018 12:49

RT	CO-ELUTION COMPOUNDS
19.450	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
19.450	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND

NONE				

On Column LOD for nt8.i, 20180803.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

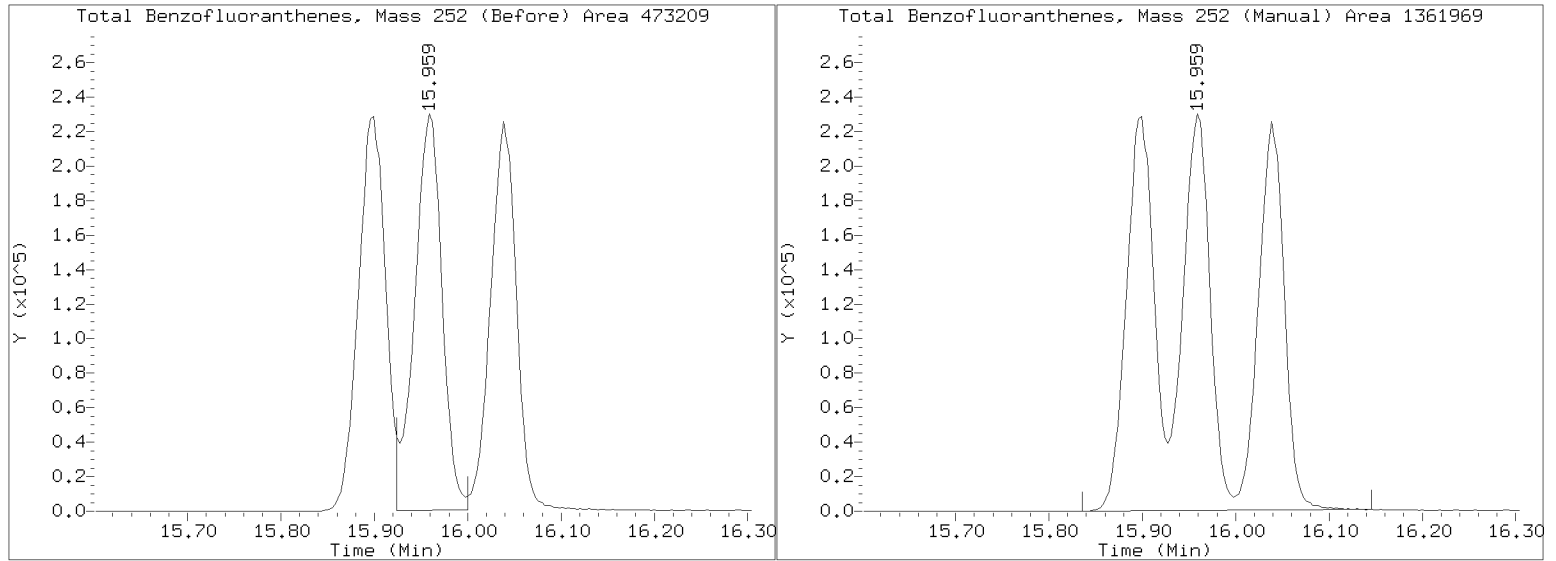
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180803.b/N818080306.D

Injection Date: 03-AUG-2018 12:49

Lab ID:SGH0048-CAL5 Client ID:

Report Date: 08/03/2018 15:36



Data File: \\target\share\chem3\nt8.1\20180803.b\N818080307.D

Date : 03-AUG-2018 13:16

Client ID:

Sample Info: IC10180803,

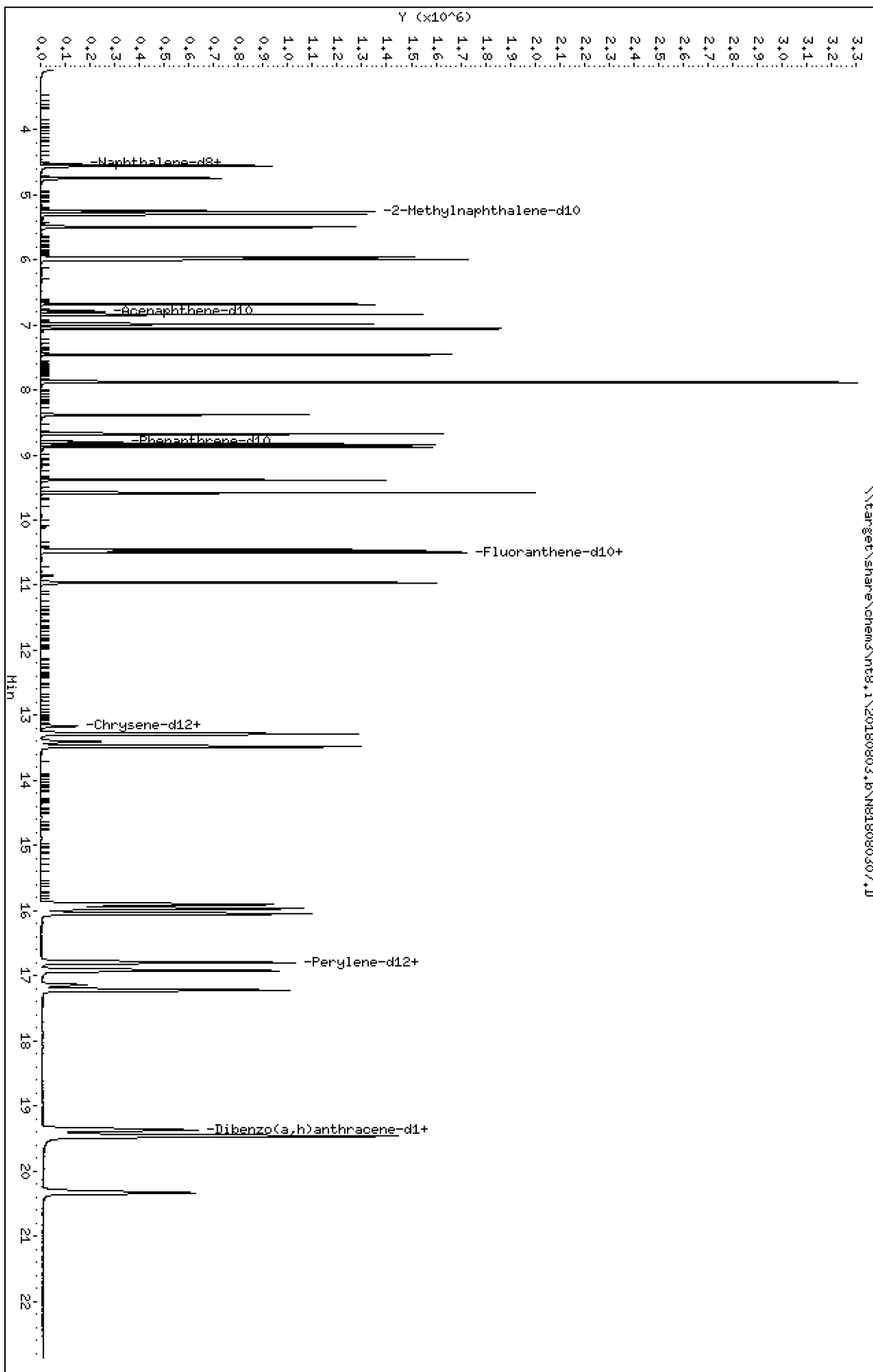
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180803.b\N818080307.D
 Lab Smp Id: SGH0048-CAL6
 Inj Date : 03-AUG-2018 13:16
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC10180803,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Meth Date : 03-Aug-2018 15:34 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 7 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
* 1 Naphthalene-d8	136		4.528	4.528	(1.000)	126746	2.00000	
2 Naphthalene	128		4.557	4.557	(1.006)	675605	10.0000	9.780
\$ 3 2-Methylnaphthalene-d10	152		5.255	5.255	(1.161)	446891	10.0000	9.970
4 2-Methylnaphthalene	141		5.303	5.300	(1.171)	377829	10.0000	9.754
5 1-methylnaphthalene	141		5.499	5.496	(1.214)	389769	10.0000	9.773
6 2-Chloronaphthalene	162		5.980	5.980	(1.320)	401060	10.0000	9.652
7 Biphenyl	154		5.964	5.961	(0.878)	587596	10.0000	9.790
8 2,6-Dimethylnaphthalene	156		5.999	5.995	(0.884)	420731	10.0000	9.645
9 Acenaphthylene	152		6.681	6.678	(0.984)	695901	10.0000	9.573
* 10 Acenaphthene-d10	164		6.789	6.792	(1.000)	68539	2.00000	
11 Acenaphthene	153		6.840	6.840	(1.007)	466539	10.0000	9.520
12 Dibenzofuran	168		6.988	6.985	(1.029)	641006	10.0000	9.443
13 1,6,7-Trimethylnaphthalene	170		7.061	7.058	(1.040)	433329	10.0000	9.845
14 Fluorene	166		7.459	7.456	(1.099)	538081	10.0000	9.570
18 Dibenzothiophene	184		8.677	8.674	(0.986)	733098	10.0000	9.746
* 15 Phenanthrene-d10	188		8.797	8.797	(1.000)	146496	2.00000	
16 Phenanthrene	178		8.835	8.832	(1.004)	759306	10.0000	9.611
17 Anthracene	178		8.873	8.870	(1.009)	762499	10.0000	9.858
19 Carbazole	167		9.385	9.382	(1.067)	690429	10.0000	9.863
20 1-Methylphenanthrene	192		9.581	9.578	(1.089)	630881	10.0000	10.02
22 Fluoranthene	202		10.495	10.488	(1.193)	871456	10.0000	9.487
\$ 21 Fluoranthene-d10	212		10.460	10.454	(1.189)	893770	10.0000	9.661
23 Pyrene	202		10.963	10.956	(0.818)	923940	10.0000	9.355
24 Benzo(a)anthracene	228		13.287	13.277	(0.991)	928542	10.0000	9.723
* 25 Chrysene-d12	240		13.404	13.401	(1.000)	165984	2.00000	
27 Chrysene	228		13.480	13.467	(1.006)	881172	10.0000	9.762
28 Benzo(b)fluoranthene	252		15.908	15.892	(0.928)	915383	10.0000	9.723
29 Benzo(k)fluoranthene	252		15.968	15.952	(0.932)	907655	10.0000	9.737
30 Benzo(j)fluoranthene	252		16.050	16.031	(0.936)	853103	10.0000	9.655
31 Total Benzofluoranthenes	252		15.968	15.952	(0.932)	2644778	30.0000	28.94 (M)
34 Benzo(e)pyrene	252		16.800	16.784	(0.980)	876798	10.0000	9.697
32 Benzo(a)pyrene	252		16.923	16.907	(0.987)	824174	10.0000	9.705
* 33 Perylene-d12	264		17.141	17.135	(1.000)	150970	2.00000	

Compounds	QUANT SIG							AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
=====	=====		=====	=====	=====	=====	=====	=====	
35 Perylene	252		17.220	17.208	(1.005)	840154	10.0000	9.590	
\$ 36 Dibenzo(a,h)anthracene-d14	292		19.370	19.345	(1.130)	724270	10.0000	10.69	
37 Indeno(1,2,3-cd)pyrene	276		19.468	19.443	(1.136)	907618	10.0000	10.14	
38 Dibenzo(a,h)anthracene	278		19.462	19.437	(1.135)	804255	10.0000	10.67	
39 Benzo(g,h,i)perylene	276		20.338	20.313	(1.186)	736290	10.0000	9.972	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-AUG-2018
 Lab File ID: N818080307.D Calibration Time: 12:22
 Lab Smp Id: SGH0048-CAL6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	126746	-3.89
10 Acenaphthene-d10	72272	36136	144544	68539	-5.17
15 Phenanthrene-d10	156058	78029	312116	146496	-6.13
25 Chrysene-d12	174389	87195	348778	165984	-4.82
33 Perylene-d12	150701	75351	301402	150970	0.18

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.53	4.03	5.03	4.53	0.00
10 Acenaphthene-d10	6.79	6.29	7.29	6.79	-0.05
15 Phenanthrene-d10	8.80	8.30	9.30	8.80	0.00
25 Chrysene-d12	13.40	12.90	13.90	13.40	0.02
33 Perylene-d12	17.14	16.64	17.64	17.14	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.

REVIEW SUMMARY FOR FILE - N818080307.D

Lab ID: SGH0048-CAL6

nt8.i, 20180803.b\FSIMPNA180803.m, 03-AUG-2018 13:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt8.i, 20180803.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

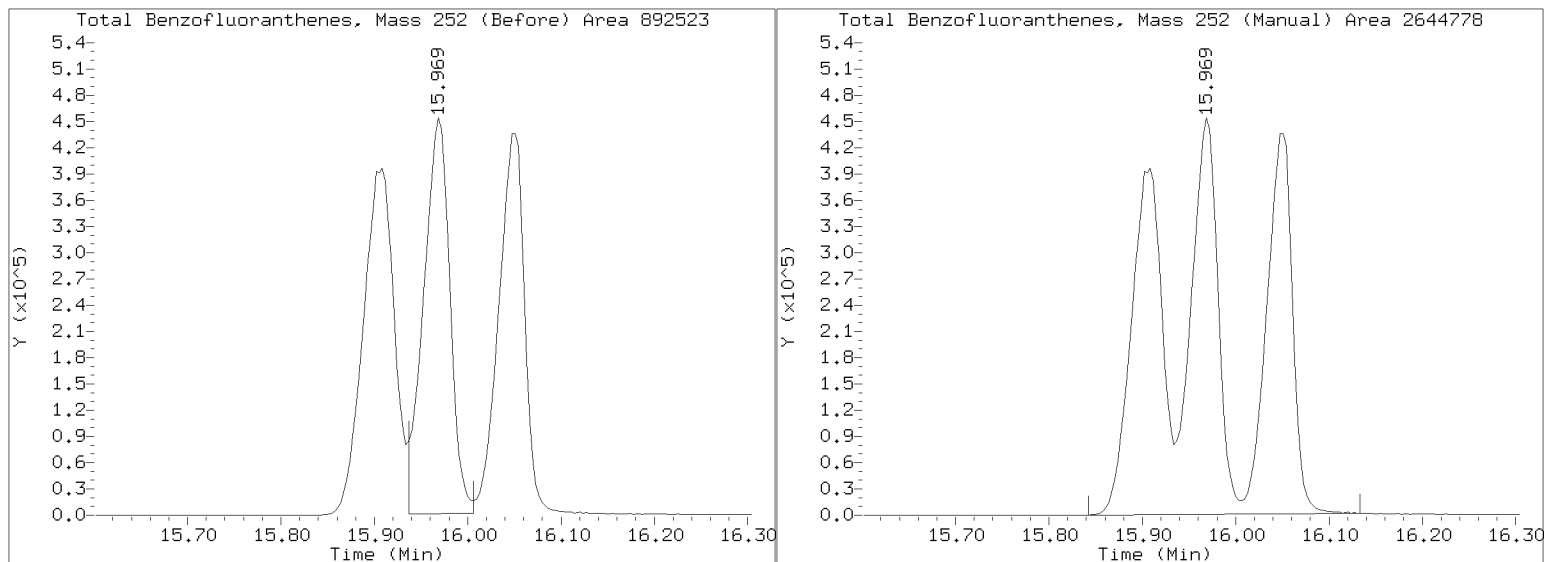
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180803.b/N818080307.D

Injection Date: 03-AUG-2018 13:16

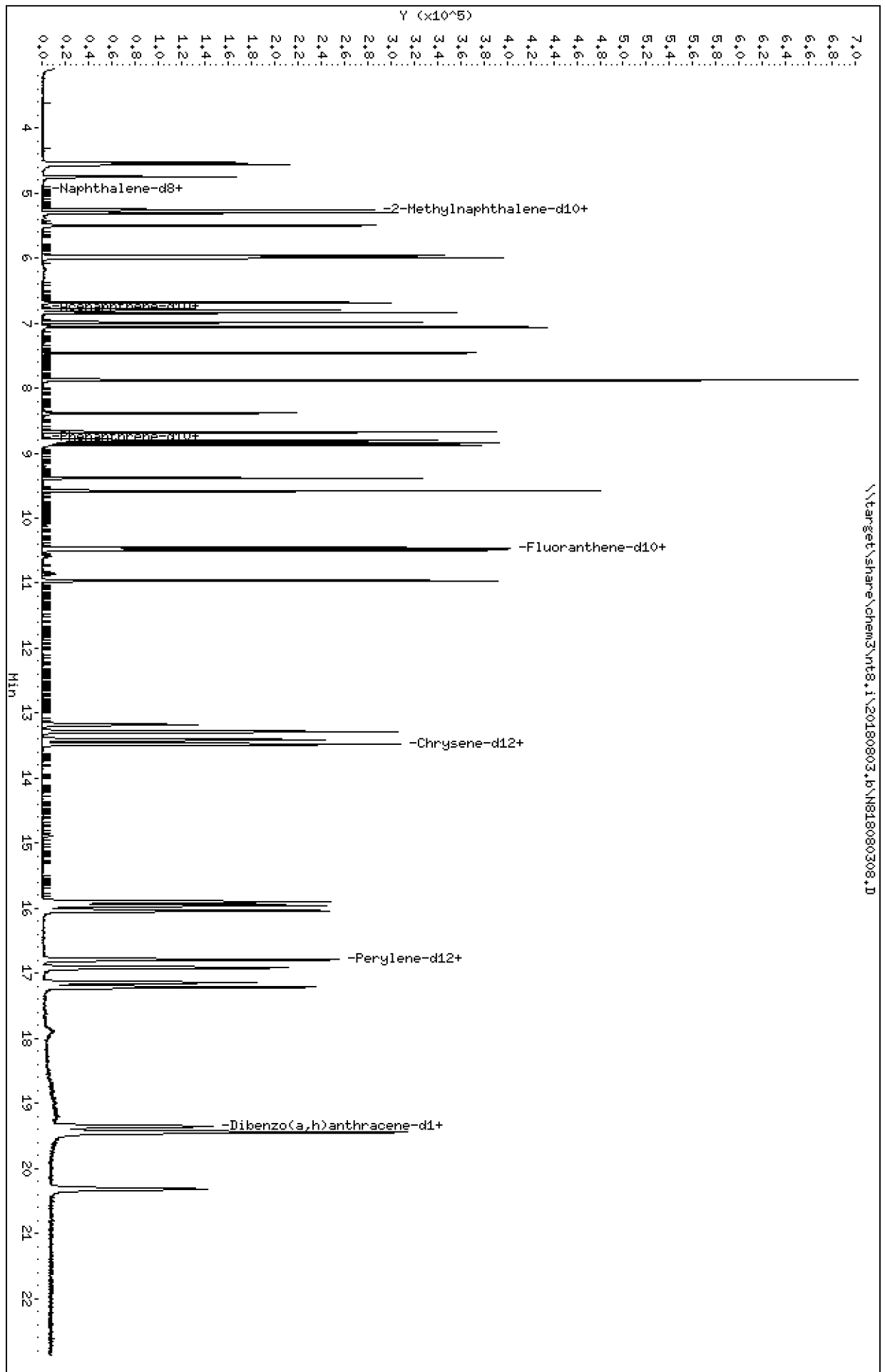
Lab ID:SGH0048-CAL6 Client ID:

Report Date: 08/03/2018 15:36



Data File: \\target\share\chem3\nt8.1\20180803.b\N818080308.D
Date: 03-AUG-2018 13:52
Client ID:
Sample Info: SCV180803,
Volume Injected (uL): 1.0
Column phase: Rxi-17s11

Instrument: nt8.1
Operator: JZ
Column diameter: 0.25



ARI Labs, Inc.

Semivolatle Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180803.b\N818080308.D
 Lab Smp Id: SGH0048-SCV1
 Inj Date : 03-AUG-2018 13:52
 Operator : JZ Inst ID: nt8.i
 Smp Info : SCV180803,
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Meth Date : 03-Aug-2018 15:34 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/L)
* 1 Naphthalene-d8	136		4.531	4.528	(1.000)	122601	2.00000	
2 Naphthalene	128		4.560	4.557	(1.006)	158550	2.37282	2.373
\$ 3 2-Methylnaphthalene-d10	152		5.259	5.255	(1.160)	95727	2.20783	2.208
4 2-Methylnaphthalene	141		5.303	5.300	(1.170)	87345	2.33117	2.331
5 1-methylnaphthalene	141		5.499	5.496	(1.214)	88970	2.30636	2.306
6 2-Chloronaphthalene	162		5.983	5.980	(1.320)	105036	2.61318	2.613
7 Biphenyl	154		5.964	5.961	(0.878)	133727	2.27880	2.279
8 2,6-Dimethylnaphthalene	156		5.999	5.995	(0.883)	99236	2.32690	2.327
9 Acenaphthylene	152		6.685	6.678	(0.984)	162783	2.29031	2.290
* 10 Acenaphthene-d10	164		6.795	6.792	(1.000)	67009	2.00000	
11 Acenaphthene	153		6.843	6.840	(1.007)	108554	2.26576	2.266
12 Dibenzofuran	168		6.988	6.985	(1.028)	152515	2.29796	2.298
13 1,6,7-Trimethylnaphthalene	170		7.061	7.058	(1.039)	100325	2.33136	2.331
14 Fluorene	166		7.459	7.456	(1.098)	124348	2.26211	2.262
18 Dibenzothiophene	184		8.677	8.674	(0.986)	177110	2.38066	2.381
* 15 Phenanthrene-d10	188		8.800	8.797	(1.000)	144893	2.00000	
16 Phenanthrene	178		8.835	8.832	(1.004)	182507	2.33559	2.336
17 Anthracene	178		8.873	8.870	(1.008)	182242	2.38208	2.382
19 Carbazole	167		9.385	9.382	(1.066)	160454	2.31757	2.318
20 1-Methylphenanthrene	192		9.581	9.578	(1.089)	148080	2.37753	2.378
22 Fluoranthene	202		10.492	10.488	(1.192)	217069	2.38926	2.389
\$ 21 Fluoranthene-d10	212		10.457	10.454	(1.188)	207961	2.27267	2.273

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Pyrene	202	10.963	10.956	(0.818)	222564	2.32431	2.324
24 Benzo(a)anthracene	228	13.284	13.277	(0.991)	217219	2.34601	2.346
* 25 Chrysene-d12	240	13.410	13.401	(1.000)	160930	2.00000	
27 Chrysene	228	13.480	13.467	(1.005)	206839	2.36353	2.364
28 Benzo(b)fluoranthene	252	15.899	15.892	(0.927)	208515	2.38870	2.389
29 Benzo(k)fluoranthene	252	15.959	15.952	(0.931)	204747	2.36895	2.369
30 Benzo(j)fluoranthene	252	16.038	16.031	(0.935)	191015	2.33156	2.332
31 Total Benzofluoranthenes	252	15.959	15.952	(0.931)	596397	7.03933	7.039 (M)
34 Benzo(e)pyrene	252	16.790	16.784	(0.979)	200620	2.39296	2.393
32 Benzo(a)pyrene	252	16.914	16.907	(0.987)	183441	2.32959	2.330
* 33 Perylene-d12	264	17.144	17.135	(1.000)	139981	2.00000	
35 Perylene	252	17.214	17.208	(1.004)	190334	2.34308	2.343
\$ 36 Dibenzo(a,h)anthracene-d14	292	19.355	19.345	(1.129)	142840	2.27467	2.275
37 Indeno(1,2,3-cd)pyrene	276	19.453	19.443	(1.135)	193187	2.32886	2.329
38 Dibenzo(a,h)anthracene	278	19.443	19.437	(1.134)	164856	2.35969	2.360
39 Benzo(g,h,i)perylene	276	20.316	20.313	(1.185)	160807	2.38671	2.387

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-AUG-2018
 Lab File ID: N818080308.D Calibration Time: 12:22
 Lab Smp Id: SGH0048-SCV1
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	122601	-7.03
10 Acenaphthene-d10	72272	36136	144544	67009	-7.28
15 Phenanthrene-d10	156058	78029	312116	144893	-7.15
25 Chrysene-d12	174389	87195	348778	160930	-7.72
33 Perylene-d12	150701	75351	301402	139981	-7.11

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.53	4.03	5.03	4.53	0.07
10 Acenaphthene-d10	6.79	6.29	7.29	6.80	0.05
15 Phenanthrene-d10	8.80	8.30	9.30	8.80	0.04
25 Chrysene-d12	13.40	12.90	13.90	13.41	0.07
33 Perylene-d12	17.14	16.64	17.64	17.14	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.

REVIEW SUMMARY FOR FILE - N818080308.D

Lab ID: SGH0048-SCV1

nt8.i, 20180803.b\FSIMPNA180803.m, 03-AUG-2018 13:52

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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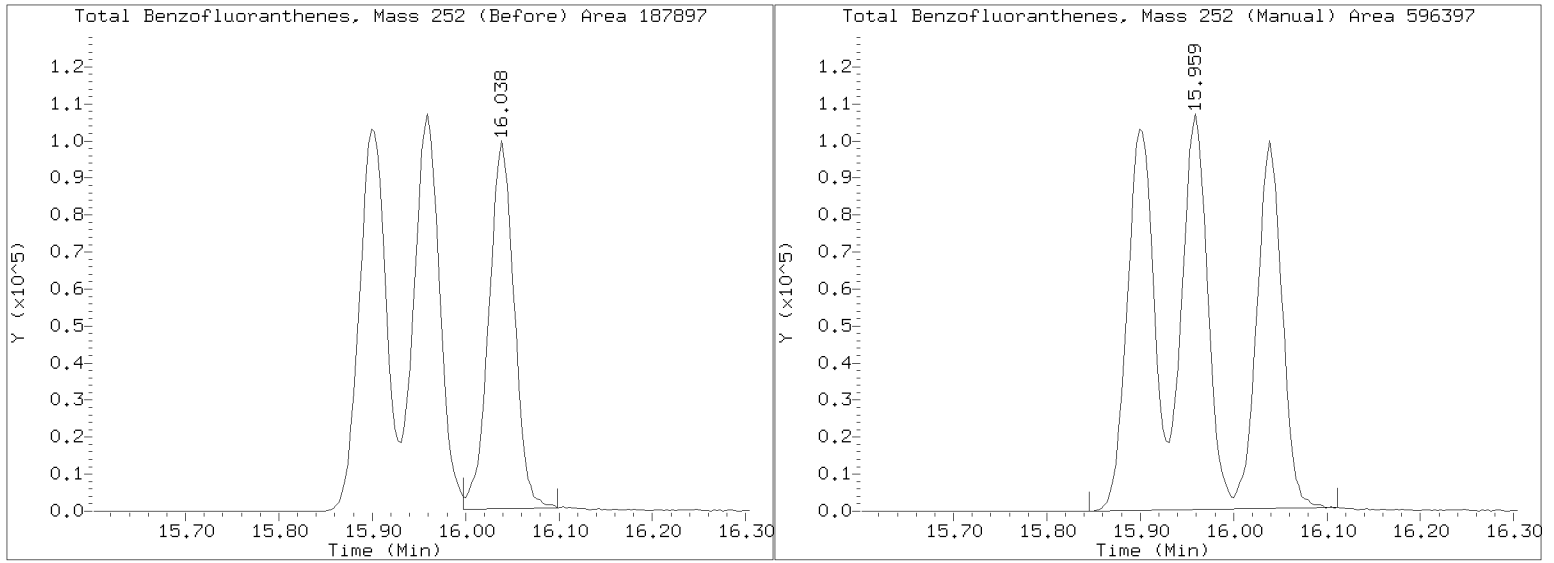
NONE

On Column LOD for nt8.i, 20180803.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180803.b/N818080308.D
Injection Date: 03-AUG-2018 13:52
Lab ID:SGH0048-SCV1 Client ID:
Report Date: 08/03/2018 15:51





SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Calibration: BH00016

Laboratory ID: SGH0048-SCV1

Sequence: SGH0048

Sequence Name: Secondary Cal Check

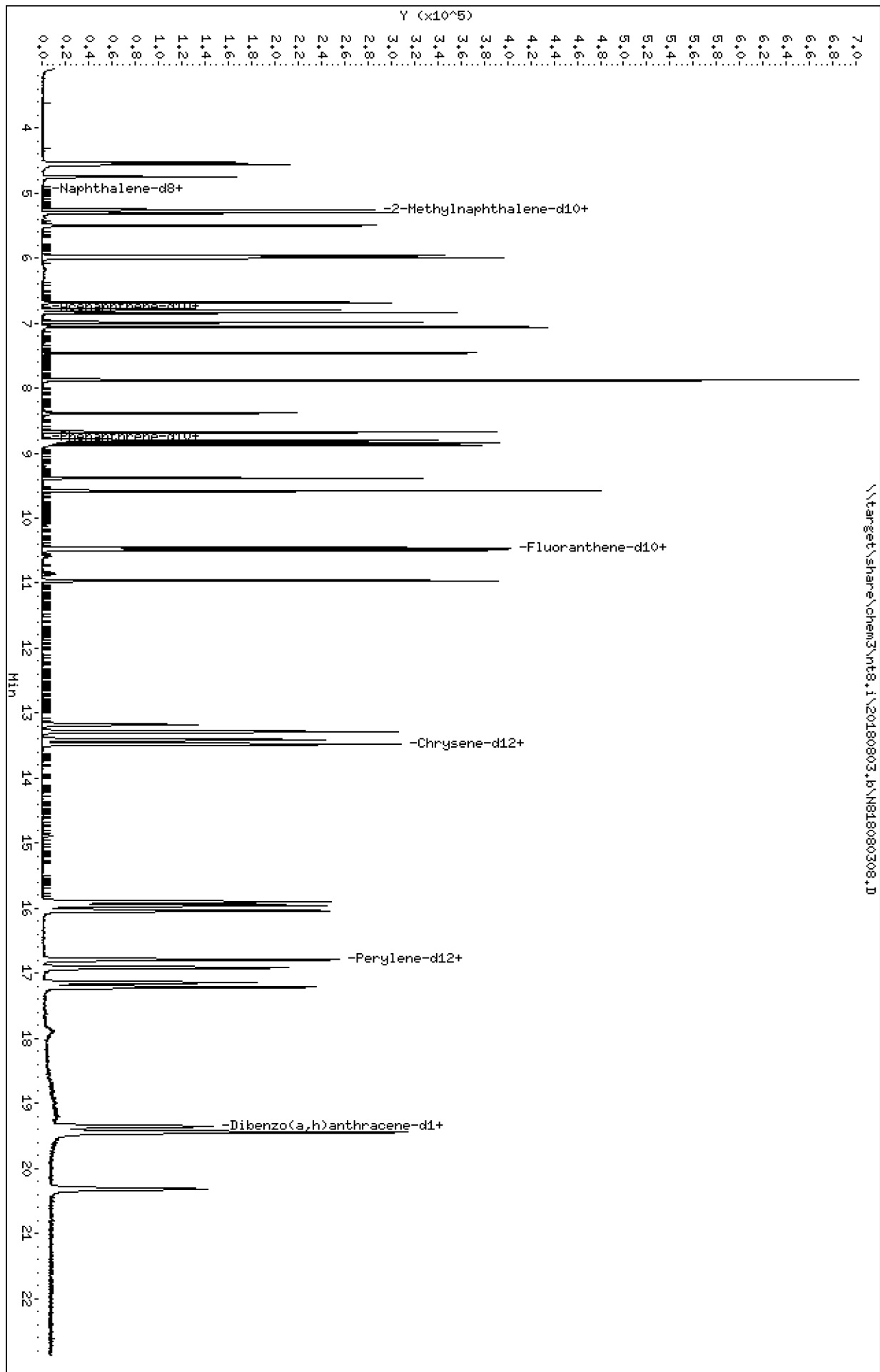
Standard ID: F010866

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	2.5000	2.37	-5.1	
2-Methylnaphthalene	2.5000	2.33	-6.8	
1-Methylnaphthalene	2.5000	2.31	-7.7	
Acenaphthylene	2.5000	2.29	-8.4	
Acenaphthene	2.5000	2.27	-9.4	
Fluorene	2.5000	2.26	-9.5	
Phenanthrene	2.5000	2.34	-6.6	
Anthracene	2.5000	2.38	-4.7	
Fluoranthene	2.5000	2.39	-4.4	
Pyrene	2.5000	2.32	-7.0	
Benzo(a)anthracene	2.5000	2.35	-6.2	
Chrysene	2.5000	2.36	-5.5	
Benzo(b)fluoranthene	2.5000	2.39	-4.5	
Benzo(k)fluoranthene	2.5000	2.37	-5.2	
Benzo(j)fluoranthene	2.5000	2.33	-6.7	
Benzo(a)pyrene	2.5000	2.33	-6.8	
Indeno(1,2,3-cd)pyrene	2.5000	2.33	-6.8	
Dibenzo(a,h)anthracene	2.5000	2.36	-5.6	
Benzo(g,h,i)perylene	2.5000	2.39	-4.5	
Benzofluoranthenes, Total	7.5000	7.04	-6.1	
2-Methylnaphthalene-d10	2.5000	2.21	-11.7	
Dibenzo[a,h]anthracene-d14	2.5000	2.27	-9.0	
Fluoranthene-d10	2.5000	2.27	-9.1	

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20180803.b\N818080308.D
Date: 03-AUG-2018 13:52
Client ID:
Sample Info: SCV180803,
Volume Injected (uL): 1.0
Column phase: Rxi-17s11

Instrument: nt8.1
Operator: JZ
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180803.b\N818080308.D
 Lab Smp Id: SGH0048-SCV1
 Inj Date : 03-AUG-2018 13:52
 Operator : JZ Inst ID: nt8.i
 Smp Info : SCV180803,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Meth Date : 03-Aug-2018 15:34 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/L)
* 1 Naphthalene-d8	136		4.531	4.528	(1.000)	122601	2.00000	
2 Naphthalene	128		4.560	4.557	(1.006)	158550	2.37282	2.373
\$ 3 2-Methylnaphthalene-d10	152		5.259	5.255	(1.160)	95727	2.20783	2.208
4 2-Methylnaphthalene	141		5.303	5.300	(1.170)	87345	2.33117	2.331
5 1-methylnaphthalene	141		5.499	5.496	(1.214)	88970	2.30636	2.306
6 2-Chloronaphthalene	162		5.983	5.980	(1.320)	105036	2.61318	2.613
7 Biphenyl	154		5.964	5.961	(0.878)	133727	2.27880	2.279
8 2,6-Dimethylnaphthalene	156		5.999	5.995	(0.883)	99236	2.32690	2.327
9 Acenaphthylene	152		6.685	6.678	(0.984)	162783	2.29031	2.290
* 10 Acenaphthene-d10	164		6.795	6.792	(1.000)	67009	2.00000	
11 Acenaphthene	153		6.843	6.840	(1.007)	108554	2.26576	2.266
12 Dibenzofuran	168		6.988	6.985	(1.028)	152515	2.29796	2.298
13 1,6,7-Trimethylnaphthalene	170		7.061	7.058	(1.039)	100325	2.33136	2.331
14 Fluorene	166		7.459	7.456	(1.098)	124348	2.26211	2.262
18 Dibenzothiophene	184		8.677	8.674	(0.986)	177110	2.38066	2.381
* 15 Phenanthrene-d10	188		8.800	8.797	(1.000)	144893	2.00000	
16 Phenanthrene	178		8.835	8.832	(1.004)	182507	2.33559	2.336
17 Anthracene	178		8.873	8.870	(1.008)	182242	2.38208	2.382
19 Carbazole	167		9.385	9.382	(1.066)	160454	2.31757	2.318
20 1-Methylphenanthrene	192		9.581	9.578	(1.089)	148080	2.37753	2.378
22 Fluoranthene	202		10.492	10.488	(1.192)	217069	2.38926	2.389
\$ 21 Fluoranthene-d10	212		10.457	10.454	(1.188)	207961	2.27267	2.273

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Pyrene	202	10.963	10.956	(0.818)	222564	2.32431	2.324
24 Benzo(a)anthracene	228	13.284	13.277	(0.991)	217219	2.34601	2.346
* 25 Chrysene-d12	240	13.410	13.401	(1.000)	160930	2.00000	
27 Chrysene	228	13.480	13.467	(1.005)	206839	2.36353	2.364
28 Benzo(b)fluoranthene	252	15.899	15.892	(0.927)	208515	2.38870	2.389
29 Benzo(k)fluoranthene	252	15.959	15.952	(0.931)	204747	2.36895	2.369
30 Benzo(j)fluoranthene	252	16.038	16.031	(0.935)	191015	2.33156	2.332
31 Total Benzofluoranthenes	252	15.959	15.952	(0.931)	596397	7.03933	7.039 (M)
34 Benzo(e)pyrene	252	16.790	16.784	(0.979)	200620	2.39296	2.393
32 Benzo(a)pyrene	252	16.914	16.907	(0.987)	183441	2.32959	2.330
* 33 Perylene-d12	264	17.144	17.135	(1.000)	139981	2.00000	
35 Perylene	252	17.214	17.208	(1.004)	190334	2.34308	2.343
\$ 36 Dibenzo(a,h)anthracene-d14	292	19.355	19.345	(1.129)	142840	2.27467	2.275
37 Indeno(1,2,3-cd)pyrene	276	19.453	19.443	(1.135)	193187	2.32886	2.329
38 Dibenzo(a,h)anthracene	278	19.443	19.437	(1.134)	164856	2.35969	2.360
39 Benzo(g,h,i)perylene	276	20.316	20.313	(1.185)	160807	2.38671	2.387

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-AUG-2018
 Lab File ID: N818080308.D Calibration Time: 12:22
 Lab Smp Id: SGH0048-SCV1
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	122601	-7.03
10 Acenaphthene-d10	72272	36136	144544	67009	-7.28
15 Phenanthrene-d10	156058	78029	312116	144893	-7.15
25 Chrysene-d12	174389	87195	348778	160930	-7.72
33 Perylene-d12	150701	75351	301402	139981	-7.11

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.53	4.03	5.03	4.53	0.07
10 Acenaphthene-d10	6.79	6.29	7.29	6.80	0.05
15 Phenanthrene-d10	8.80	8.30	9.30	8.80	0.04
25 Chrysene-d12	13.40	12.90	13.90	13.41	0.07
33 Perylene-d12	17.14	16.64	17.64	17.14	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.

REVIEW SUMMARY FOR FILE - N818080308.D

Lab ID: SGH0048-SCV1

nt8.i, 20180803.b\FSIMPNA180803.m, 03-AUG-2018 13:52

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt8.i, 20180803.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

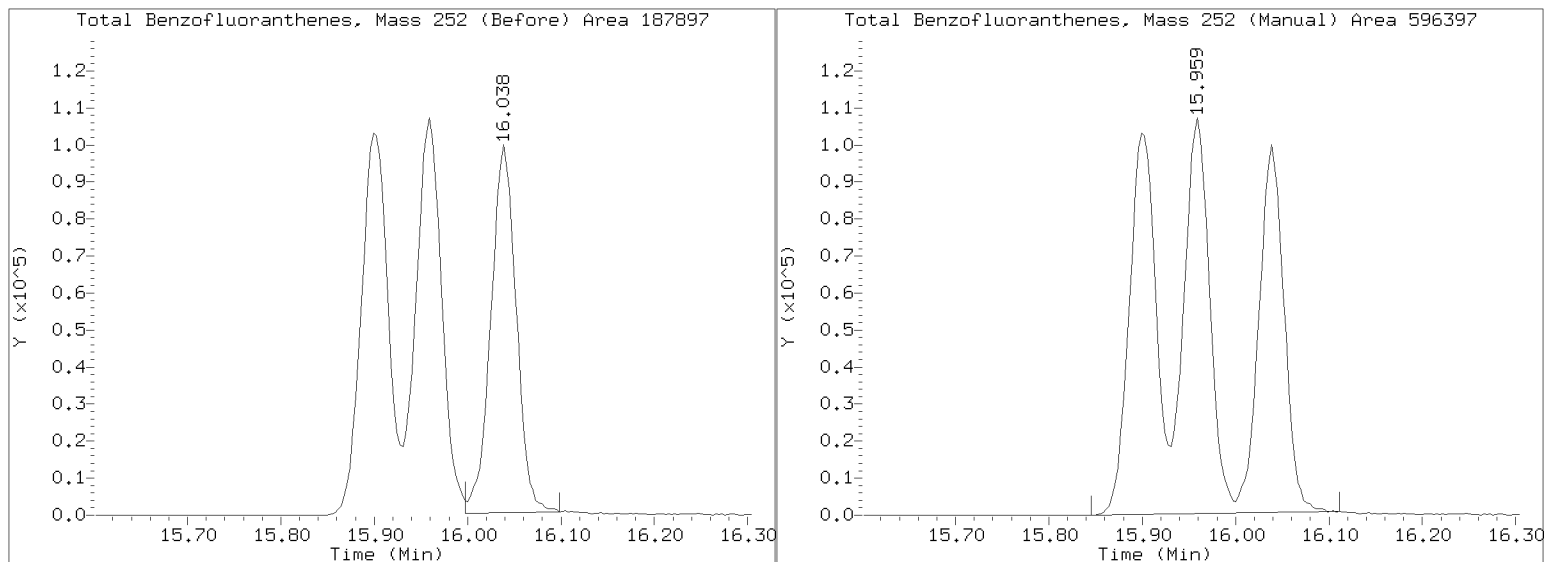
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180803.b/N818080308.D

Injection Date: 03-AUG-2018 13:52

Lab ID:SGH0048-SCV1 Client ID:

Report Date: 08/03/2018 15:51





SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Calibration: BH00016

Laboratory ID: SGH0048-SCV2

Sequence: SGH0048

Sequence Name: Secondary Cal Check

Standard ID: G008697

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	2.5000	2.41	-3.5	
2-Methylnaphthalene	2.5000	2.43	-2.6	
1-Methylnaphthalene	2.5000	2.40	-4.2	
Acenaphthylene	2.5000	2.40	-4.2	
Acenaphthene	2.5000	2.33	-6.7	
Fluorene	2.5000	2.28	-9.0	
Phenanthrene	2.5000	2.45	-2.1	
Anthracene	2.5000	2.57	2.9	
Fluoranthene	2.5000	2.42	-3.4	
Pyrene	2.5000	2.51	0.4	
Benzo(a)anthracene	2.5000	2.46	-1.7	
Chrysene	2.5000	2.51	0.4	
Benzo(b)fluoranthene	2.5000	2.52	0.8	
Benzo(k)fluoranthene	2.5000	2.62	4.9	
Benzo(a)pyrene	2.5000	2.41	-3.4	
Indeno(1,2,3-cd)pyrene	2.5000	1.94	-22.4	
Dibenzo(a,h)anthracene	2.5000	2.10	-15.8	
Benzo(g,h,i)perylene	2.5000	2.17	-13.3	
2-Methylnaphthalene-d10	2.5000	2.49	-0.6	
Dibenzo[a,h]anthracene-d14	2.5000	2.18	-12.9	
Fluoranthene-d10	2.5000	2.44	-2.6	

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20180925.b\NT818092503.D

Date: 25-SEP-2018 11:55

Client ID:

Sample Info: SGH0048-SCV2

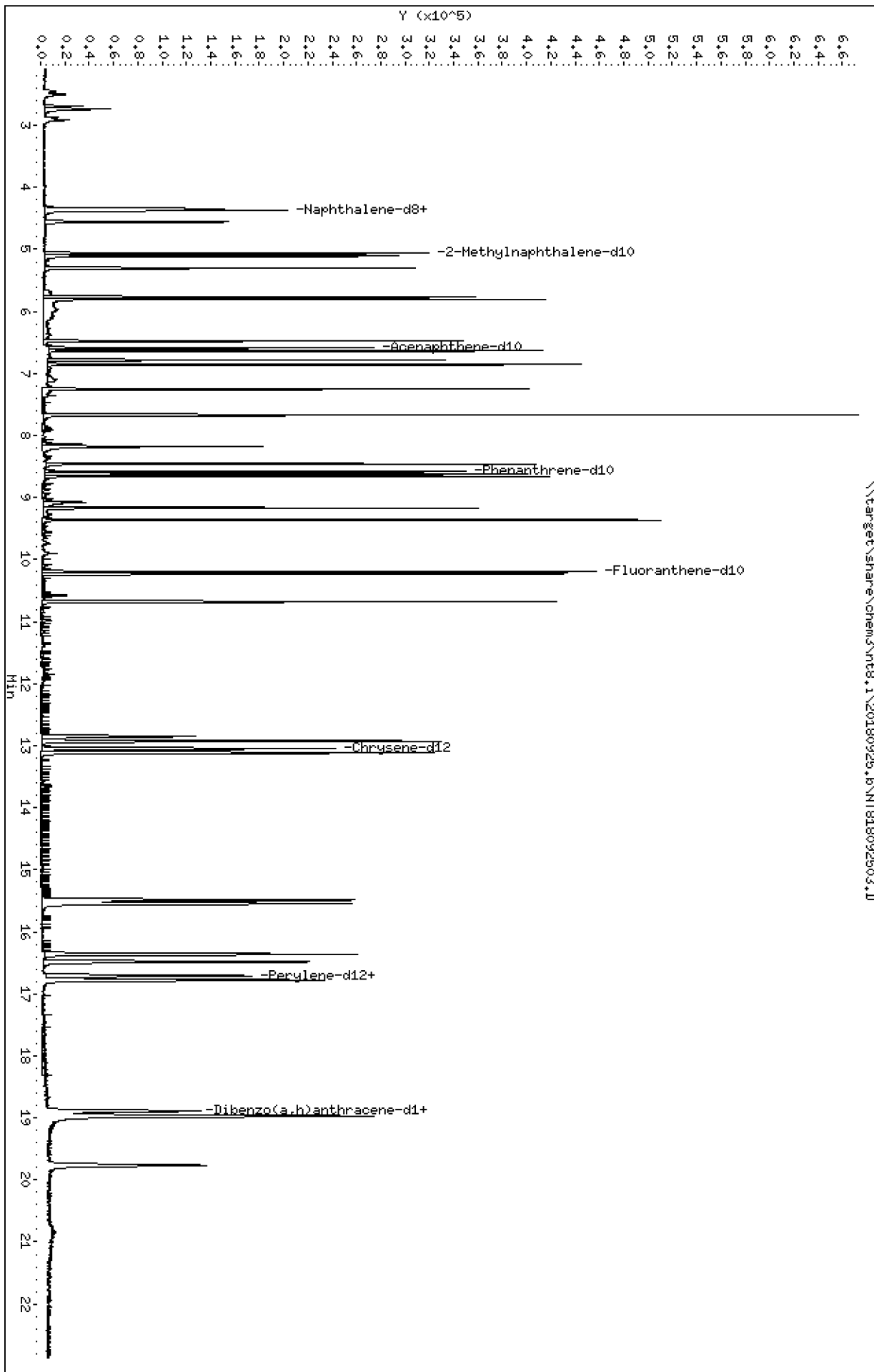
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

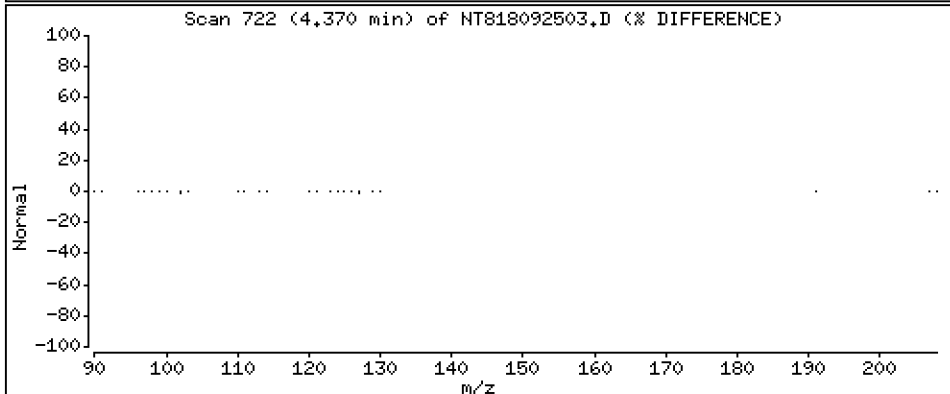
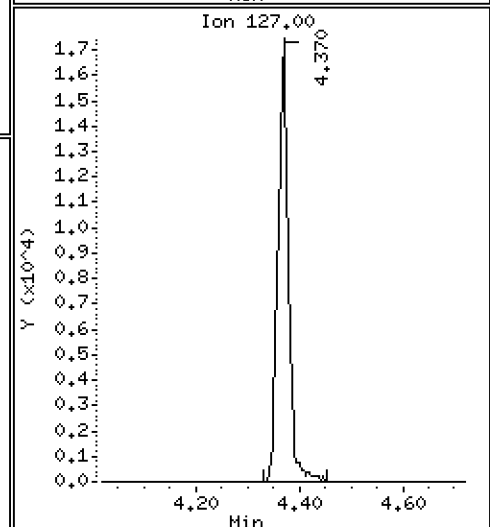
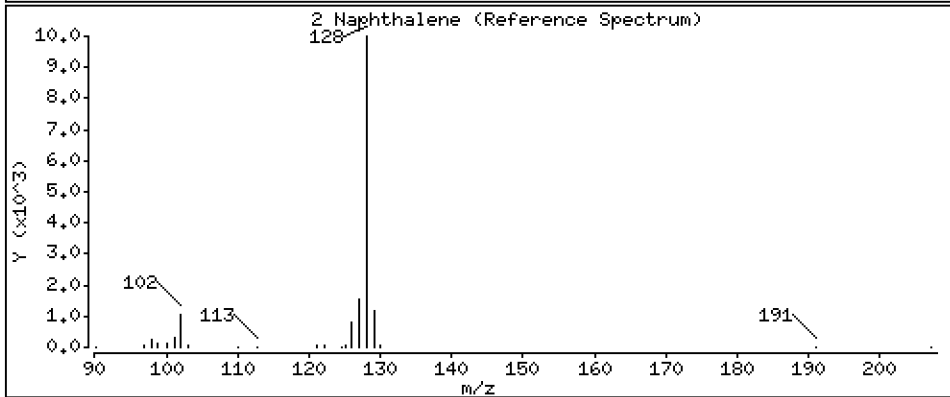
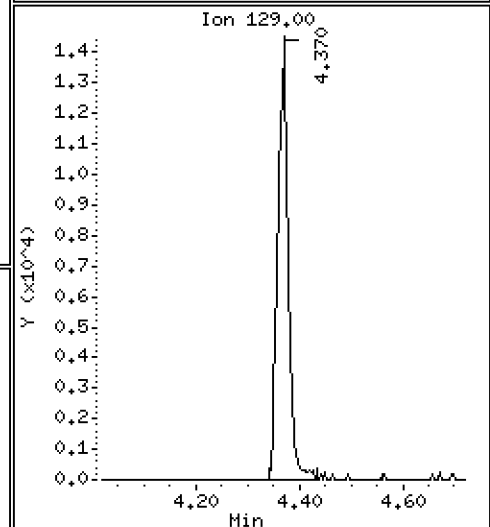
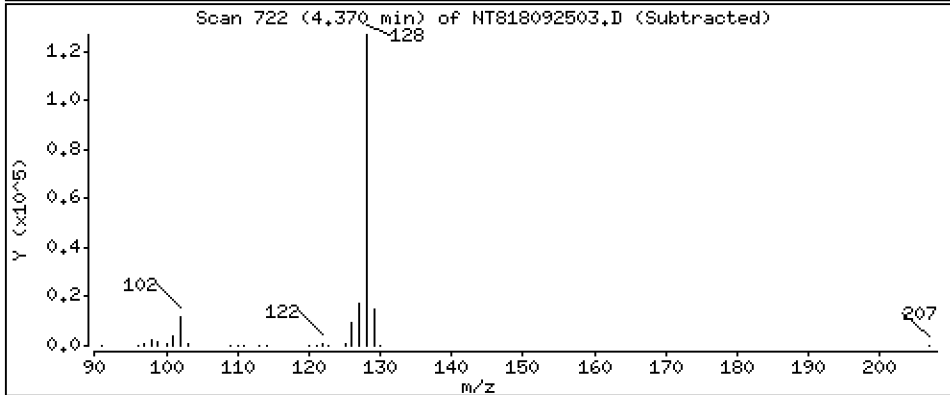
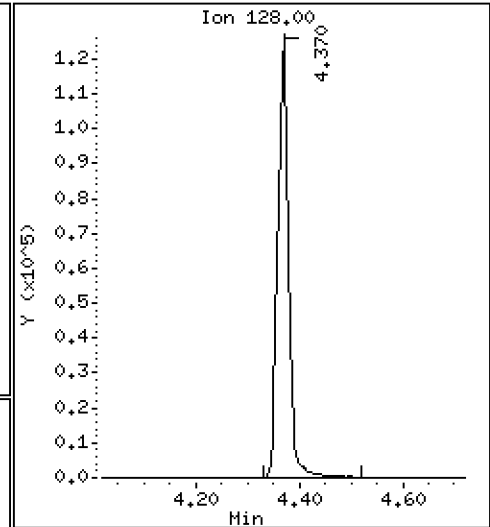
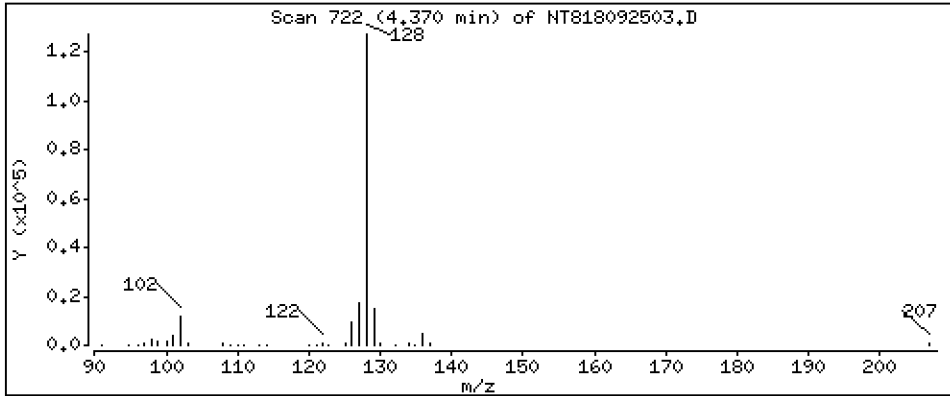
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 2,411 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

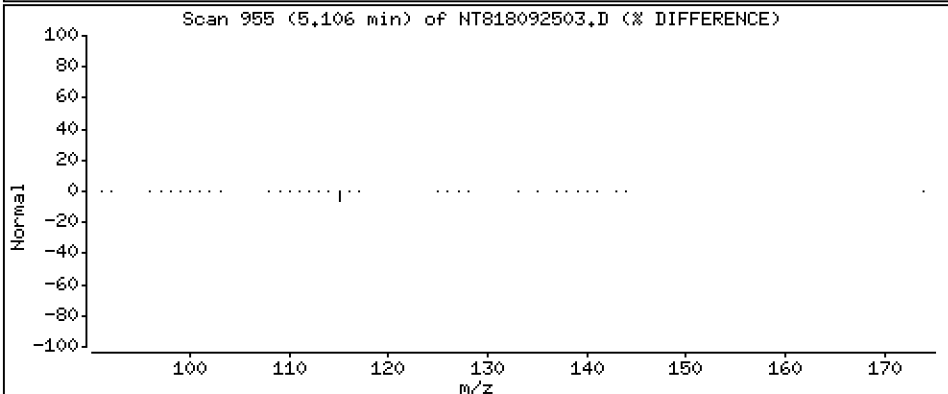
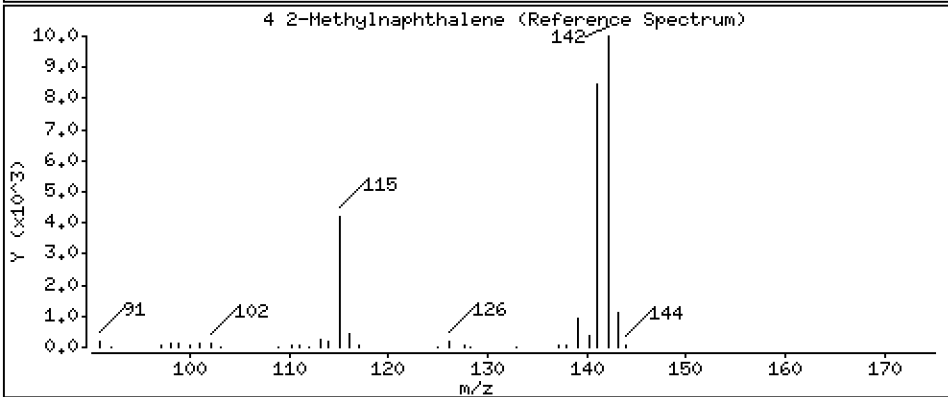
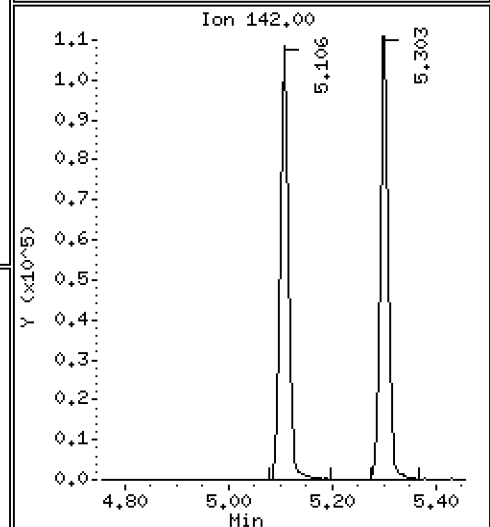
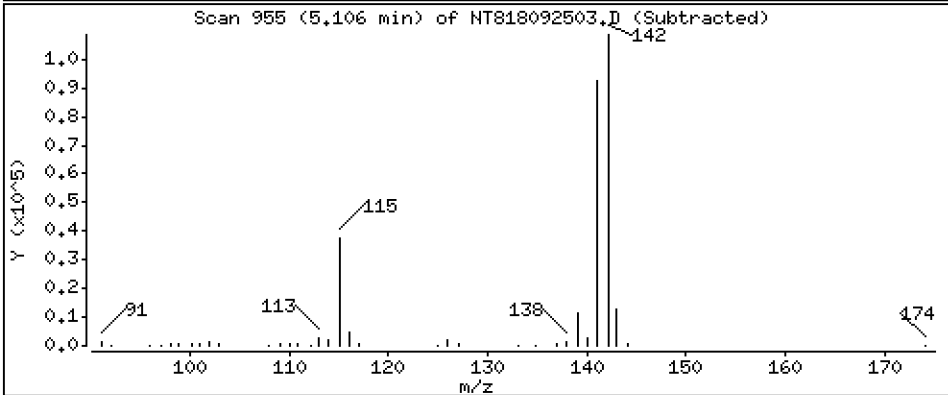
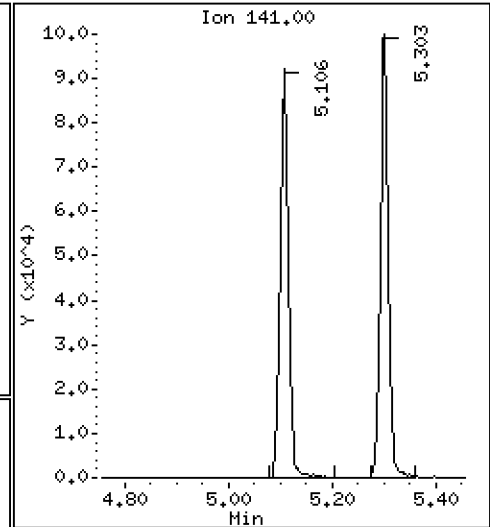
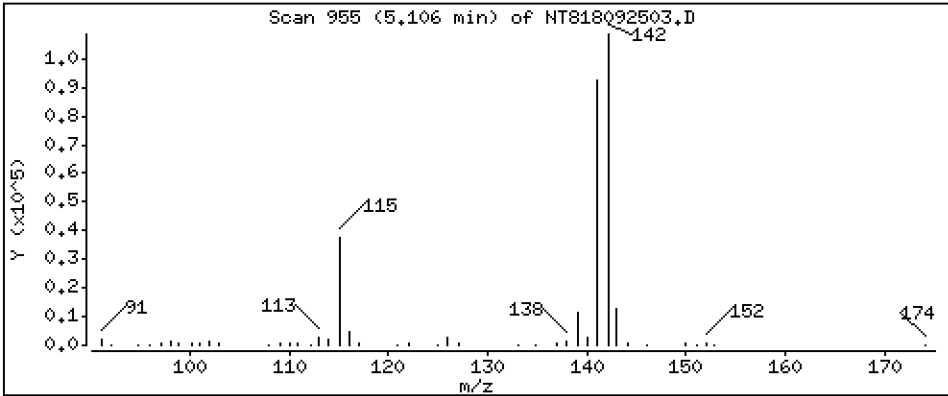
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4-Methylnaphthalene

Concentration: 2.435 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

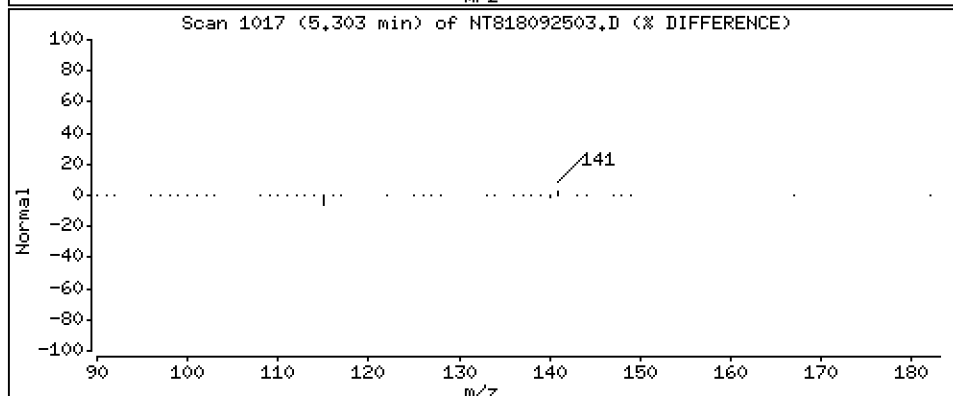
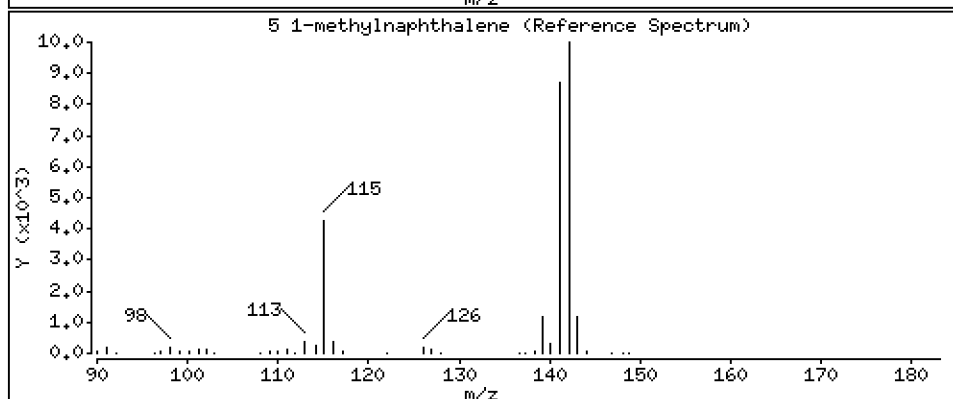
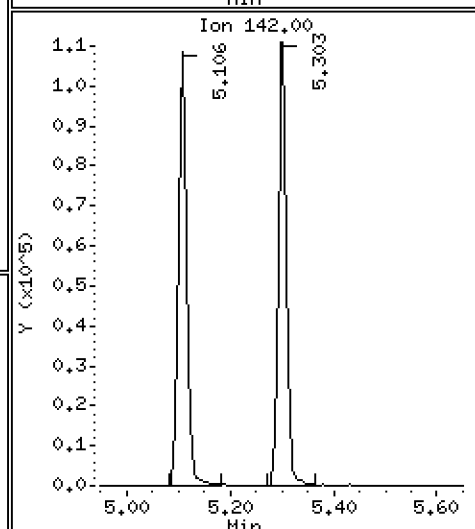
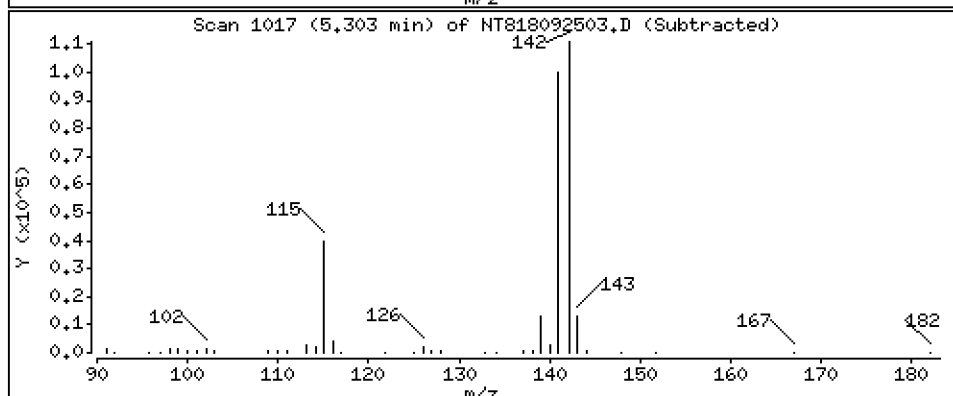
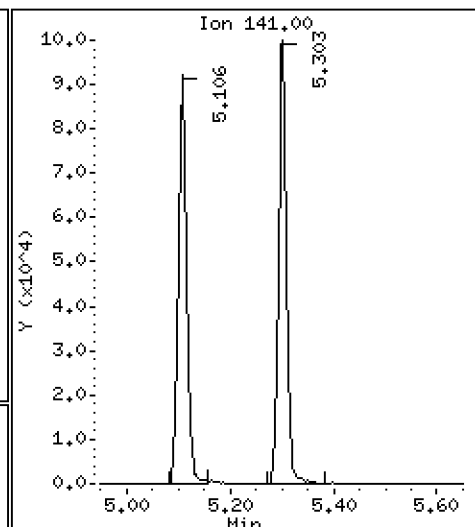
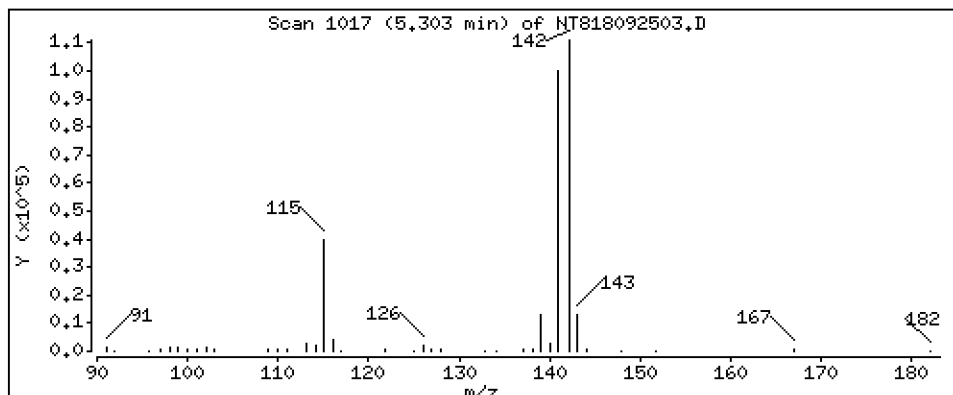
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

5 1-methylnaphthalene

Concentration: 2,395 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

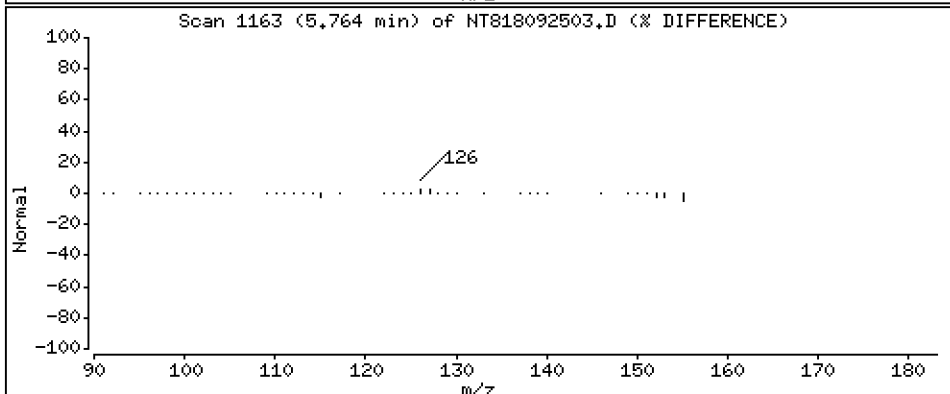
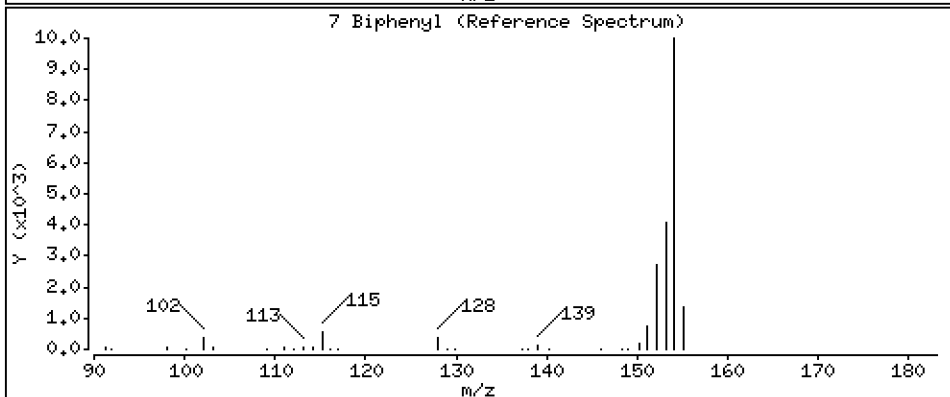
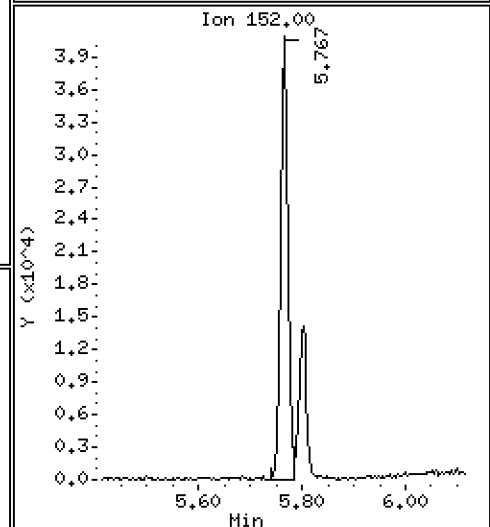
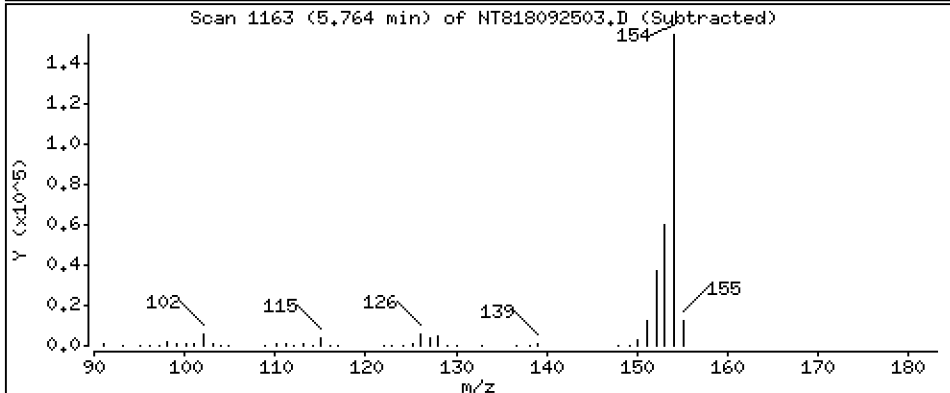
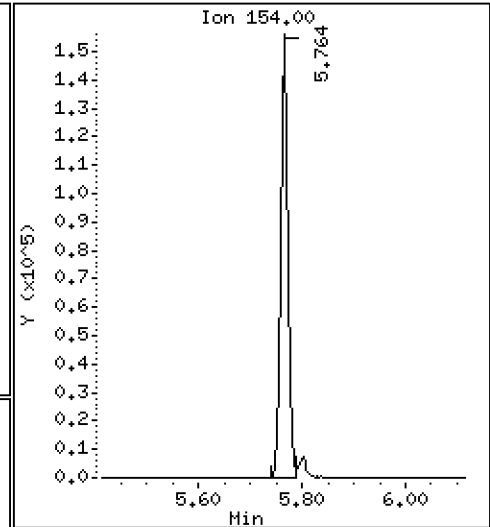
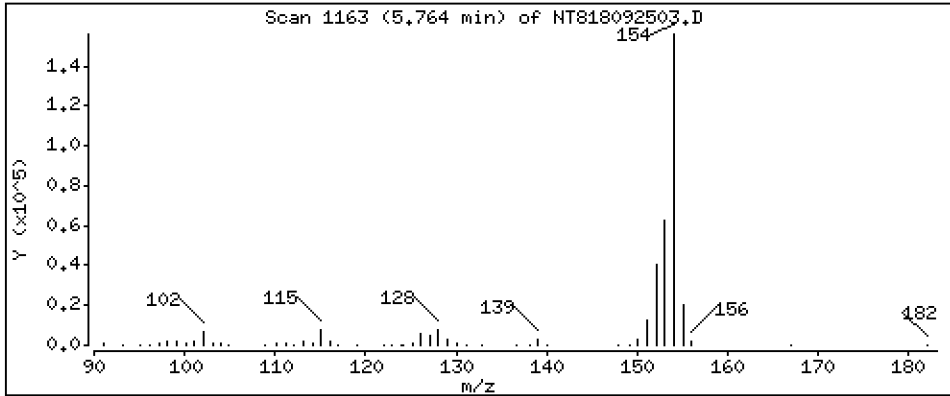
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

7 Biphenyl

Concentration: 2,370 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

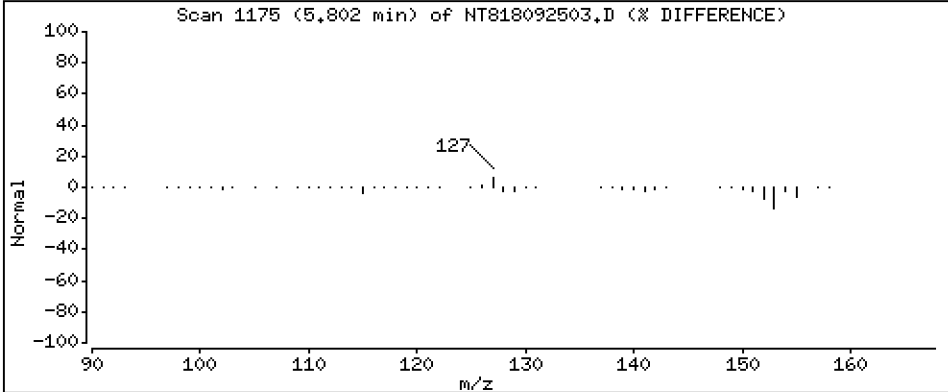
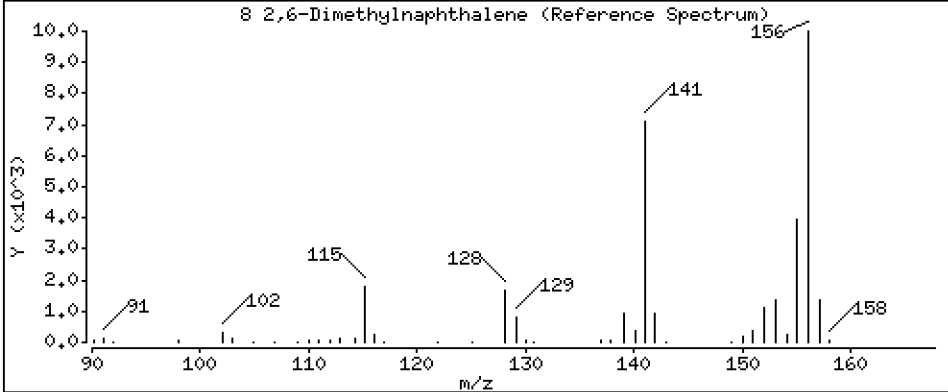
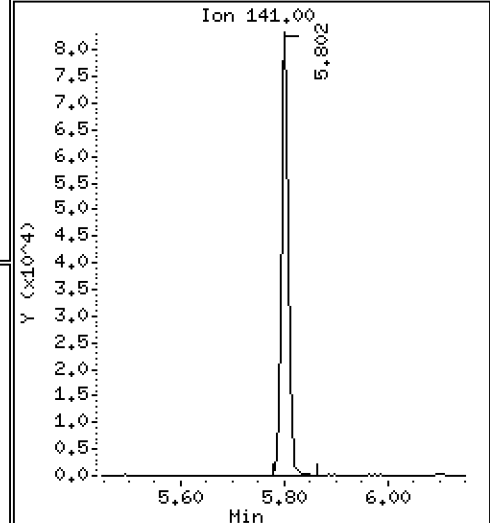
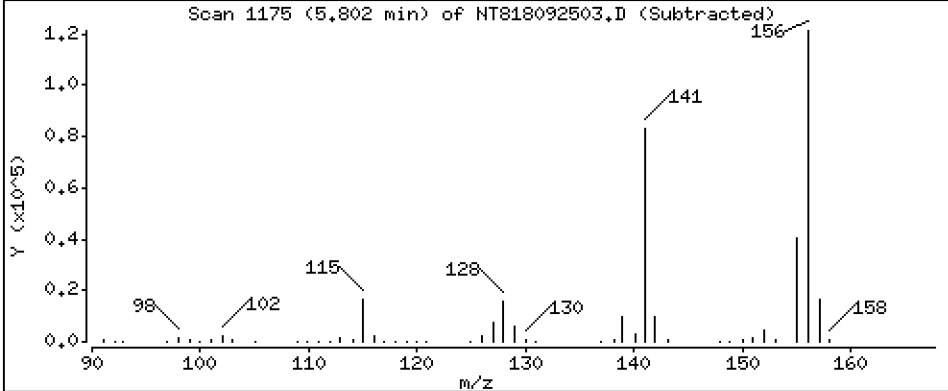
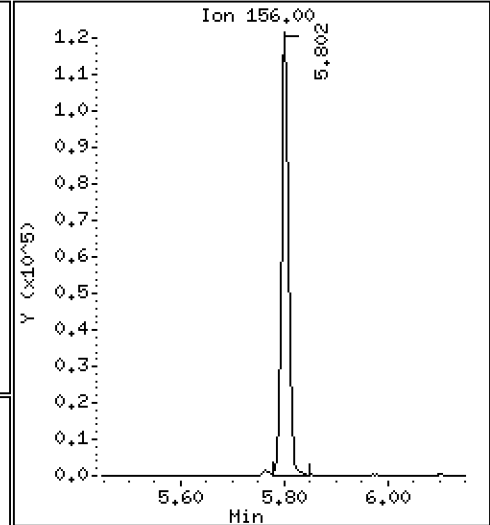
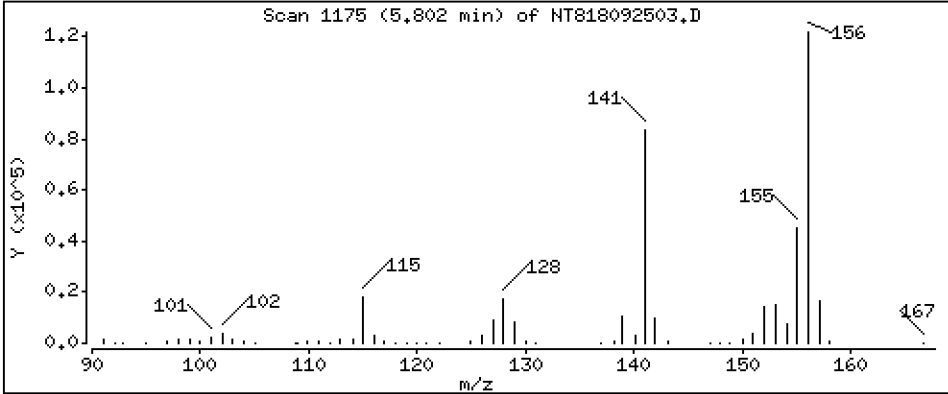
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

8 2,6-Dimethylnaphthalene

Concentration: 2,422 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

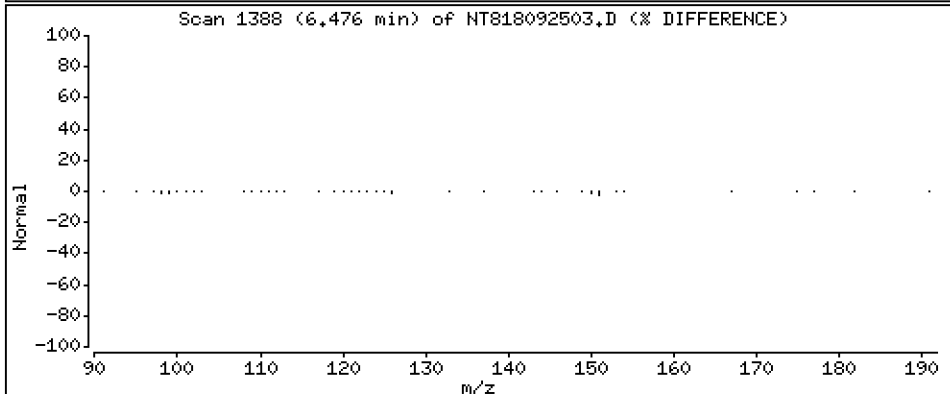
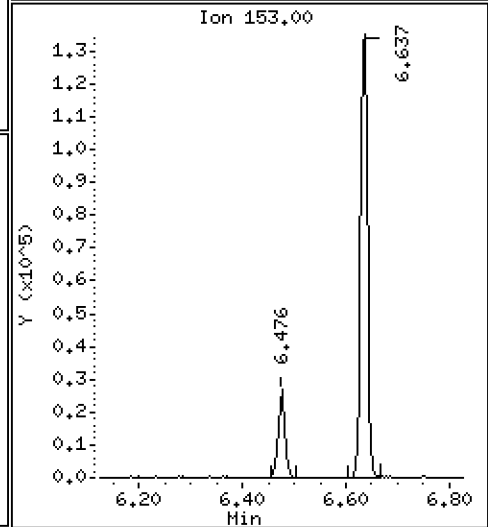
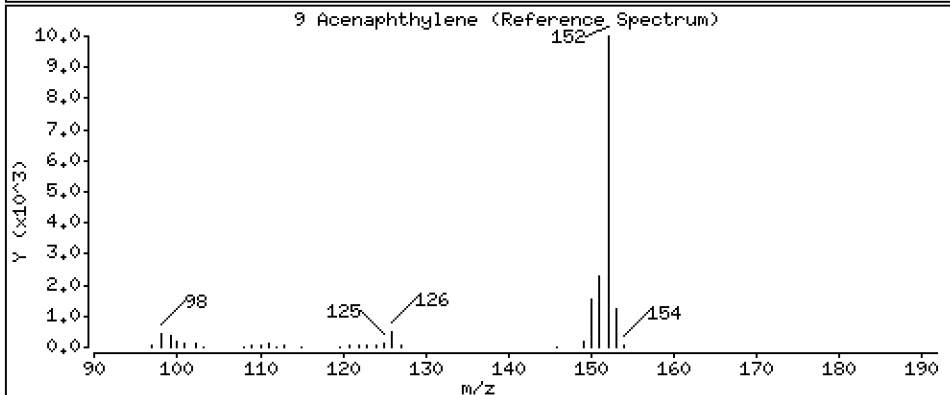
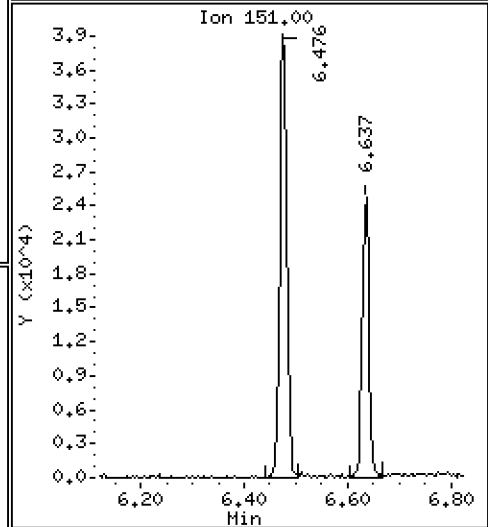
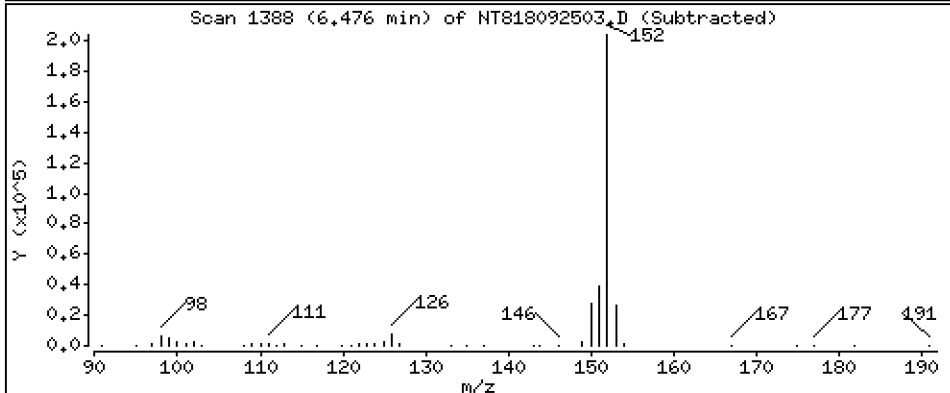
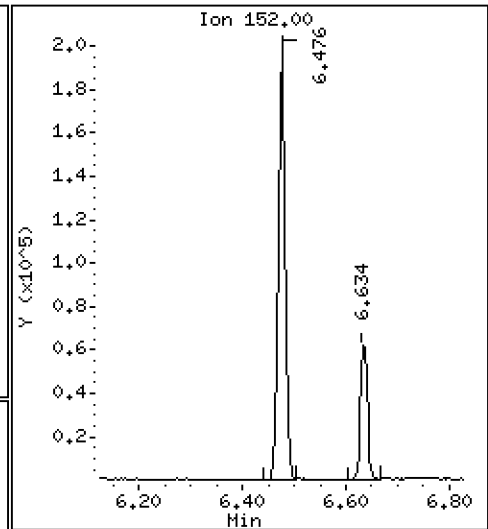
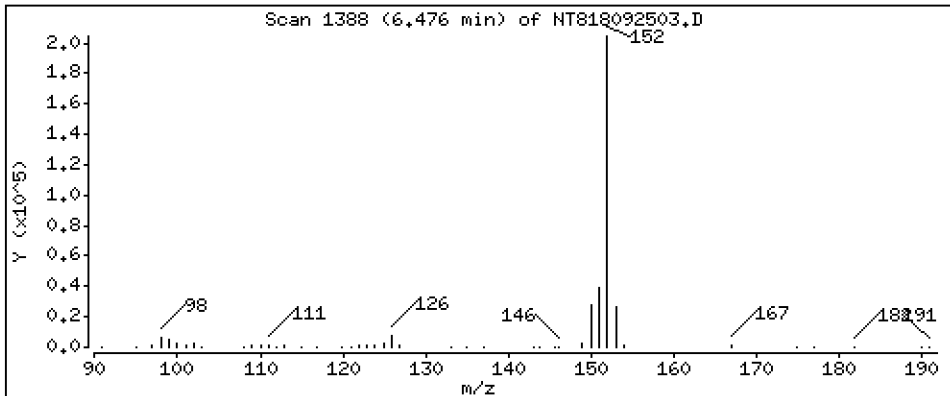
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

9 Acenaphthylene

Concentration: 2.396 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

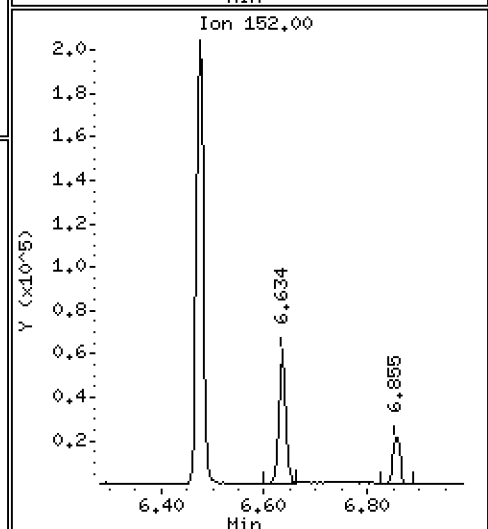
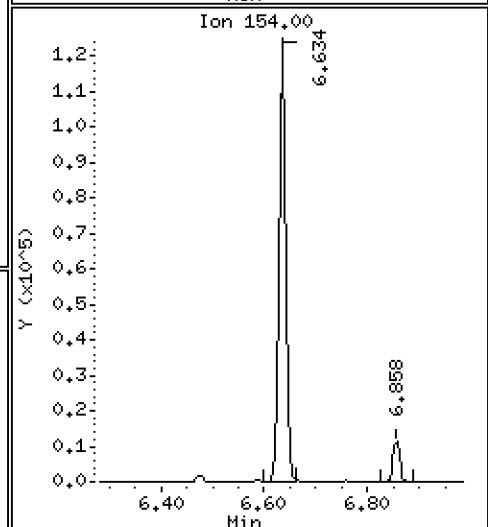
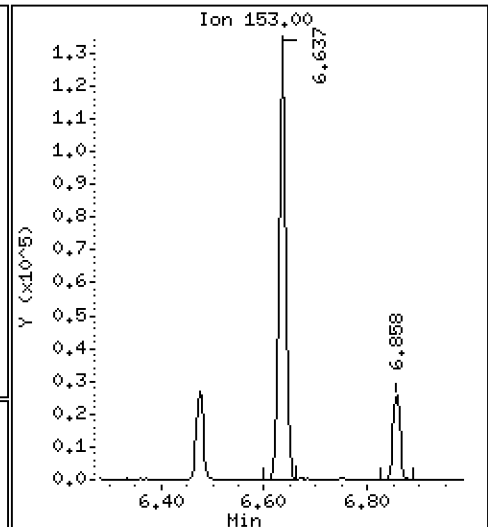
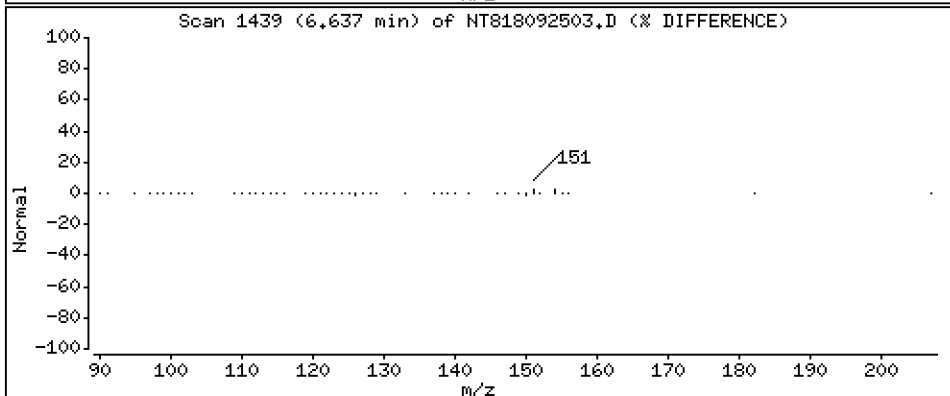
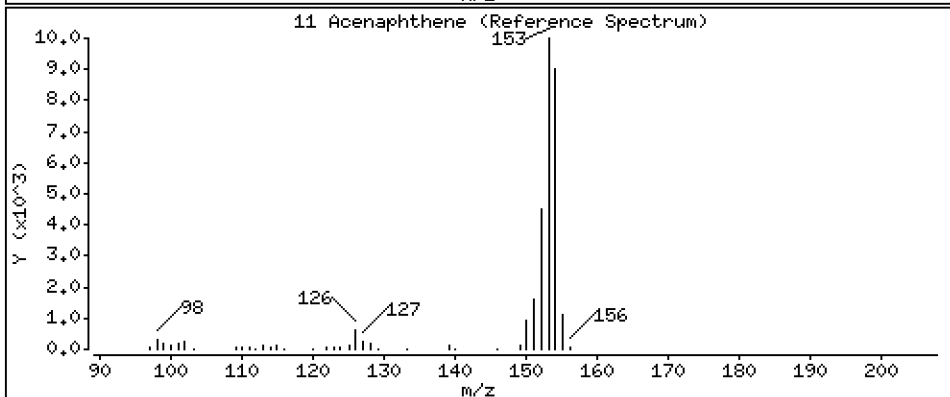
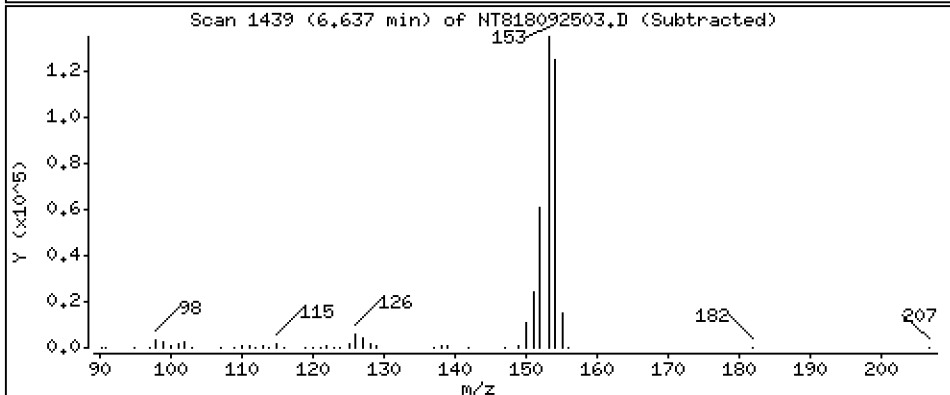
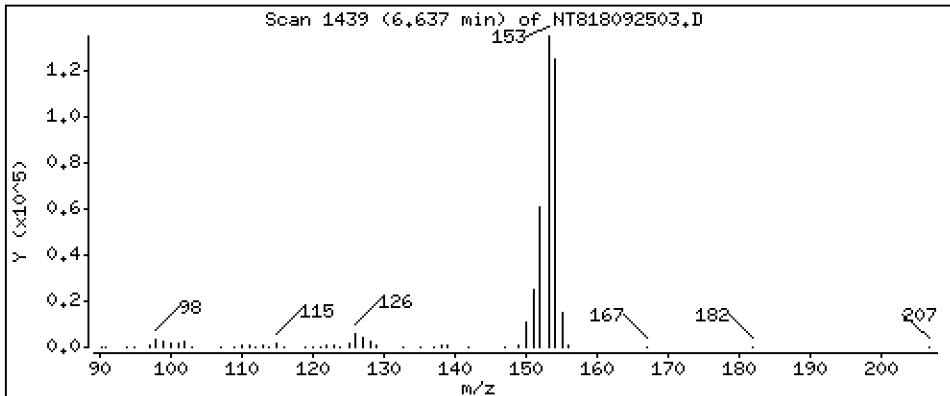
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 2,334 ug/mL

11 Acenaphthene



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

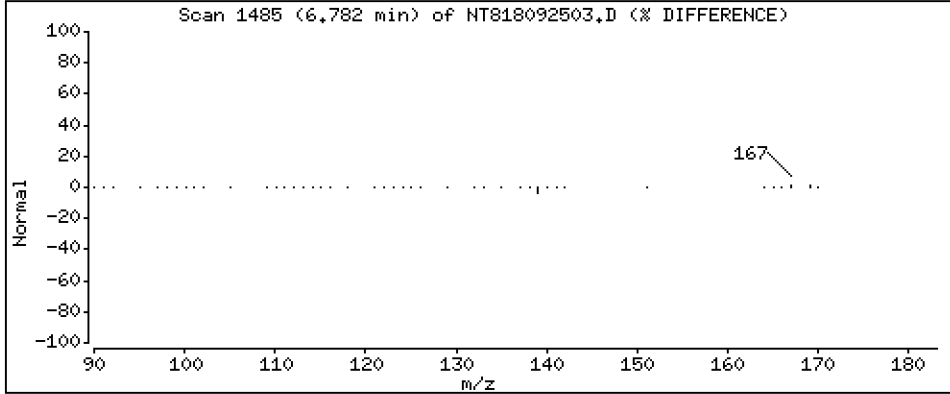
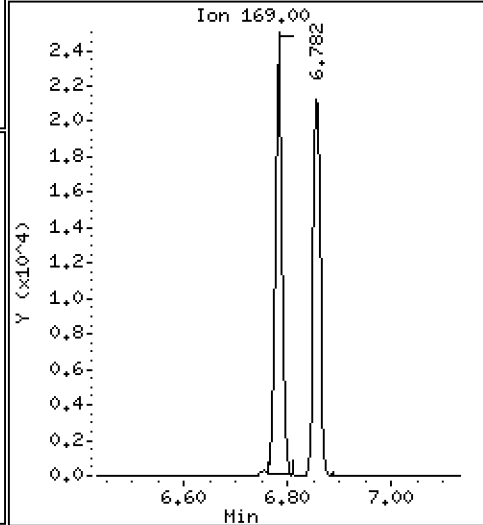
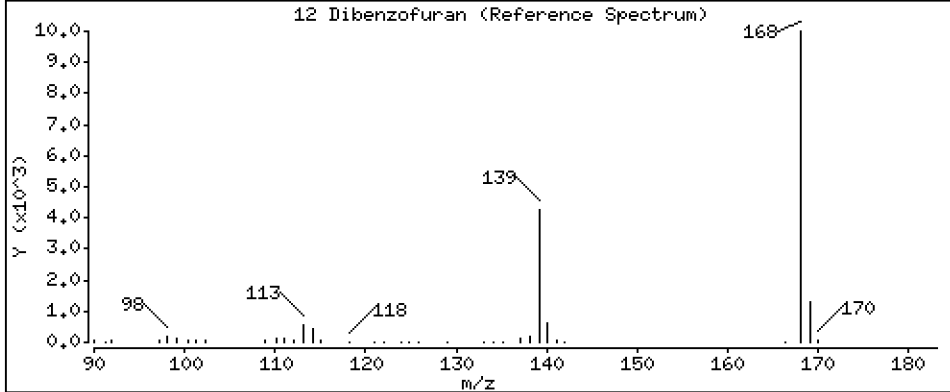
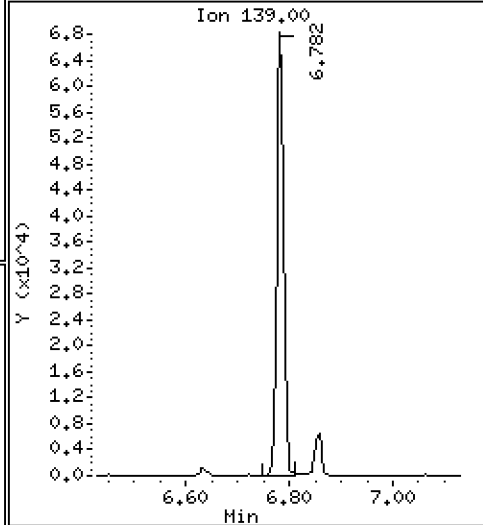
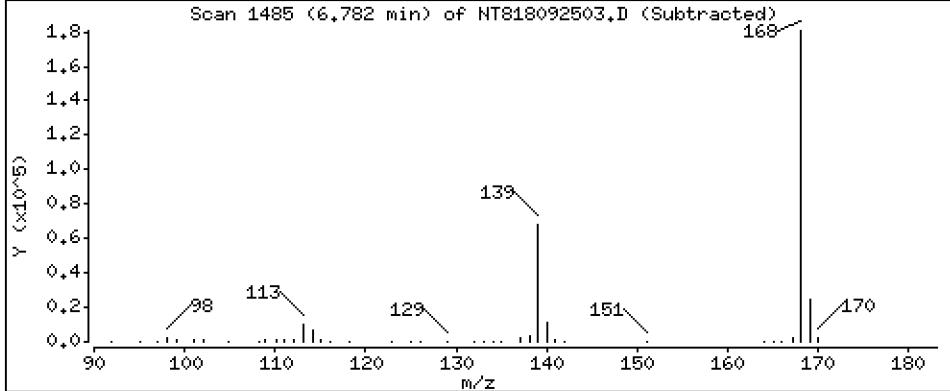
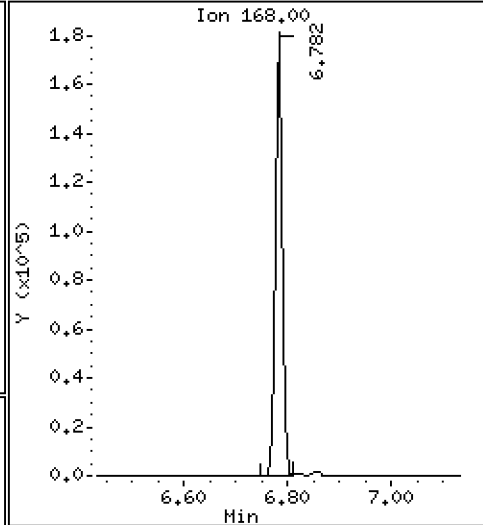
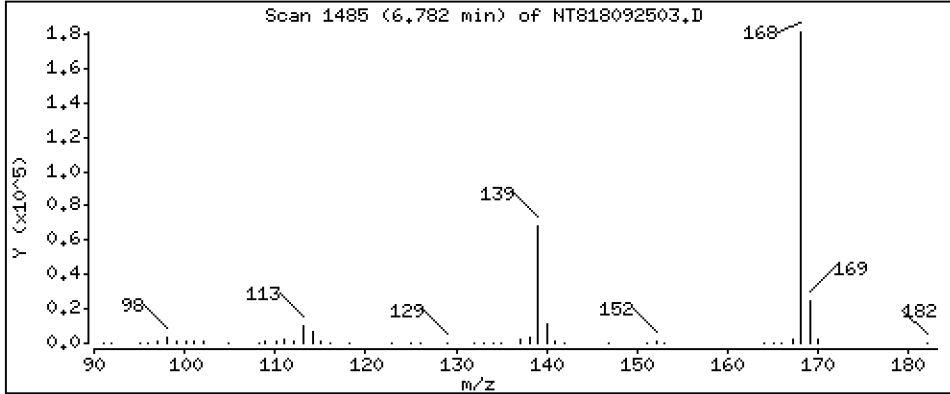
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

12 Dibenzofuran

Concentration: 2,329 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

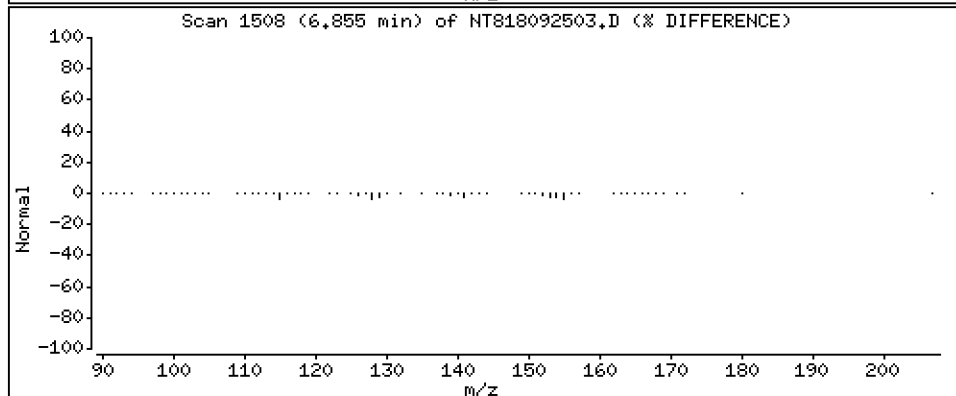
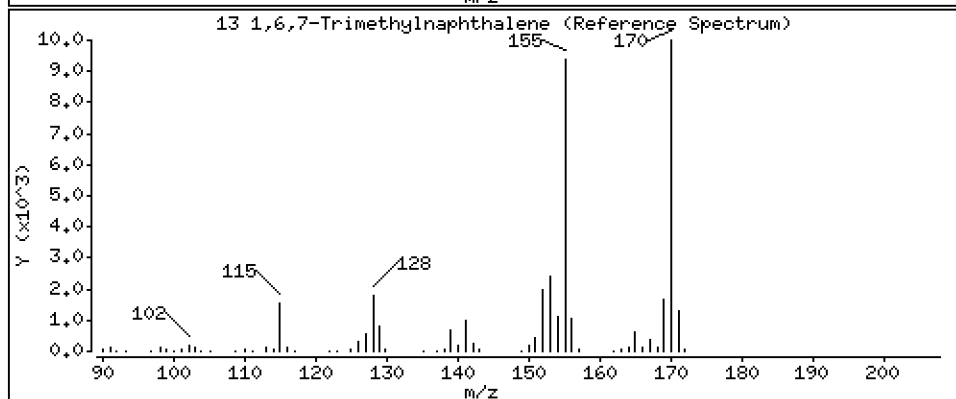
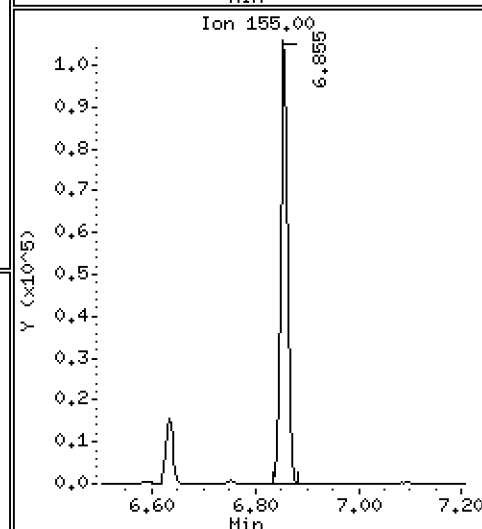
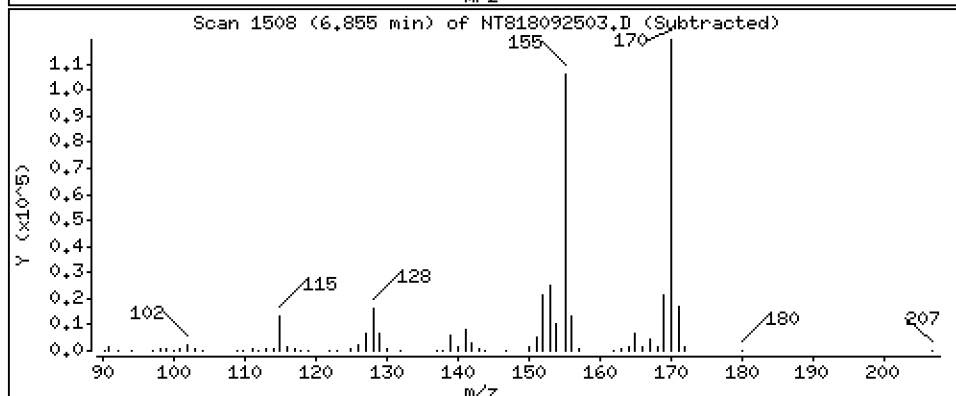
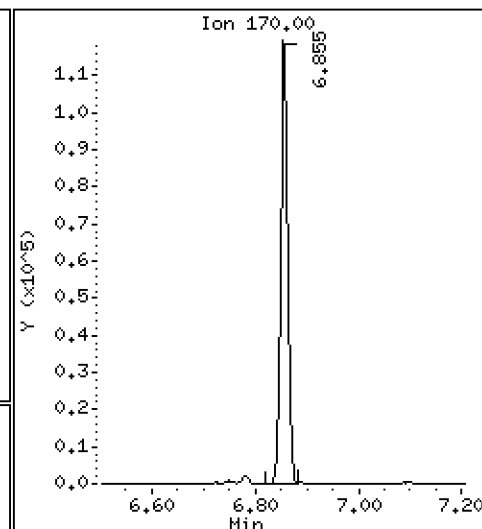
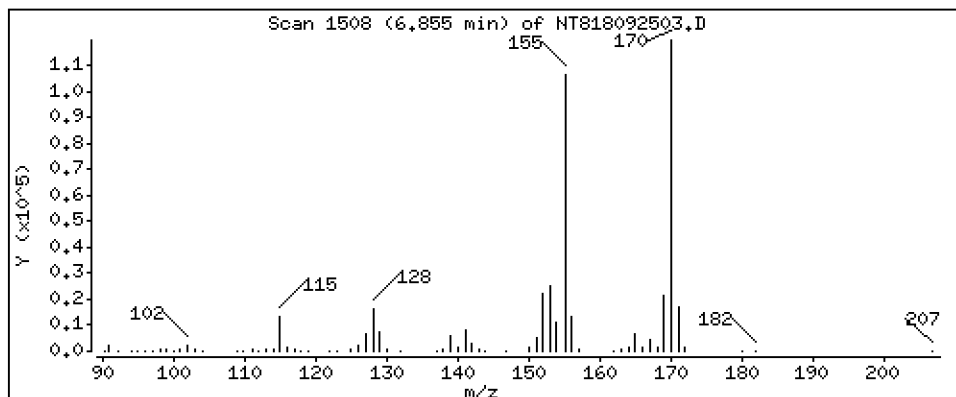
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

13 1,6,7-Trimethylnaphthalene

Concentration: 2,359 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

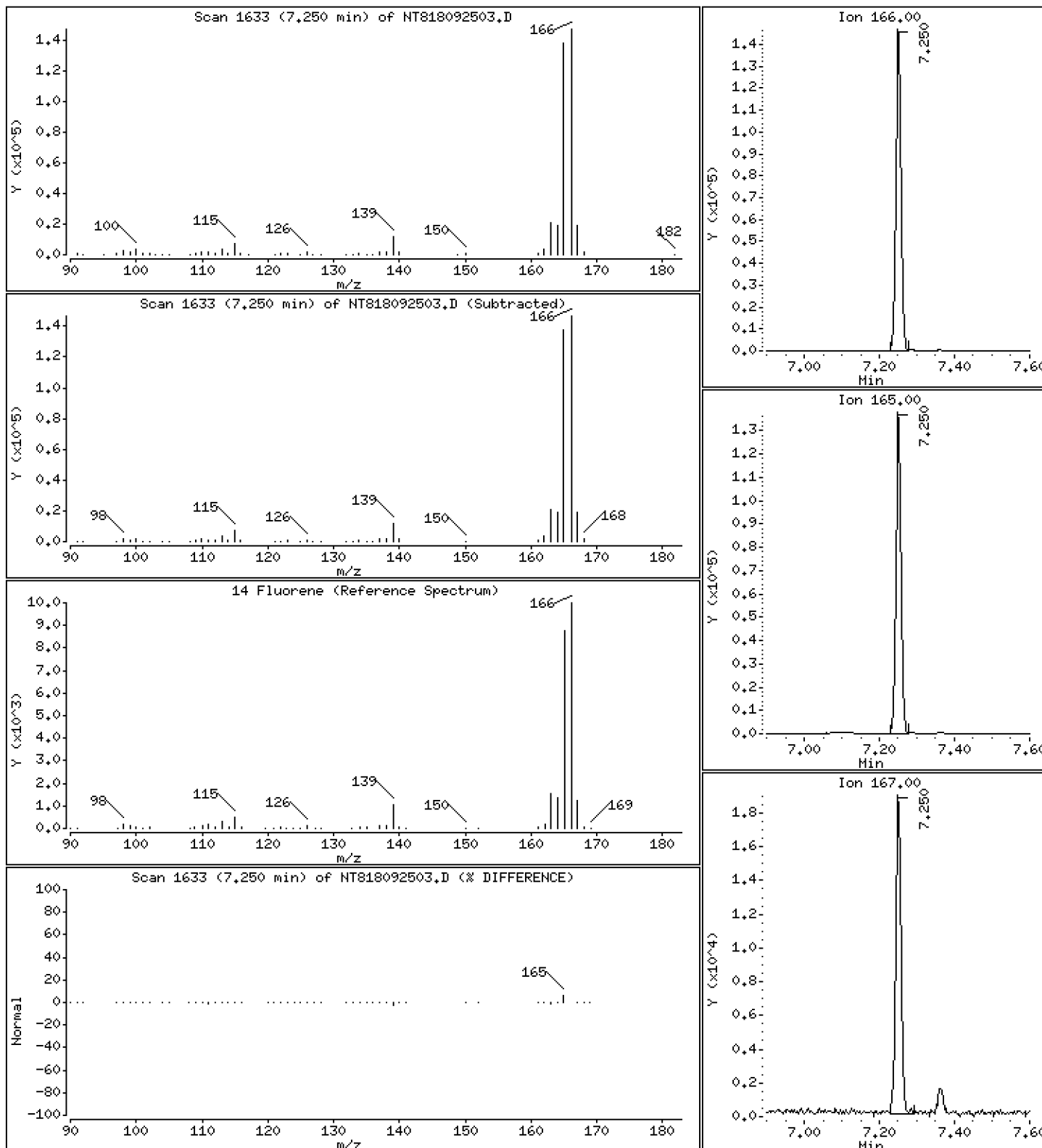
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

14 Fluorene

Concentration: 2,275 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

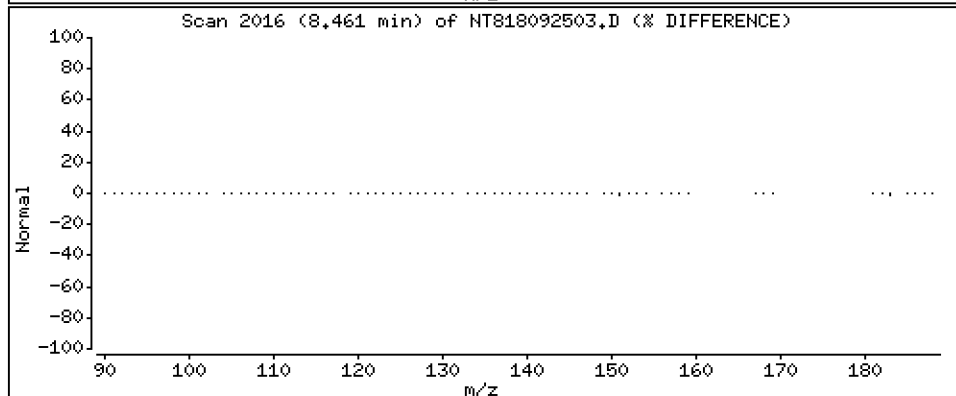
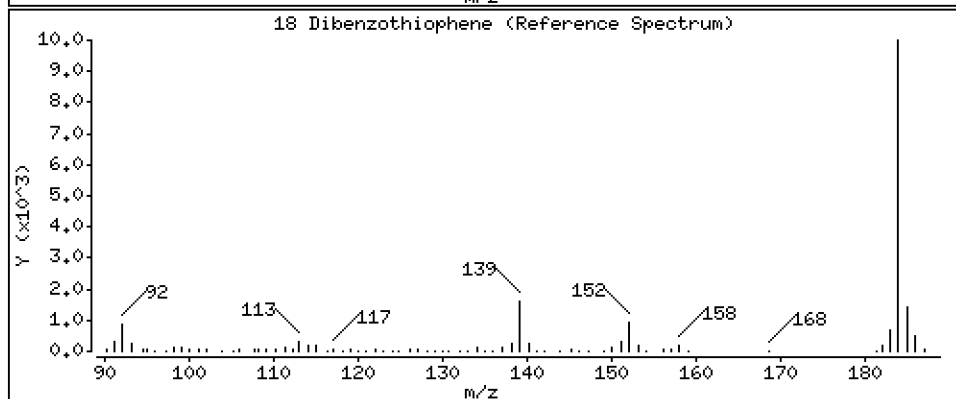
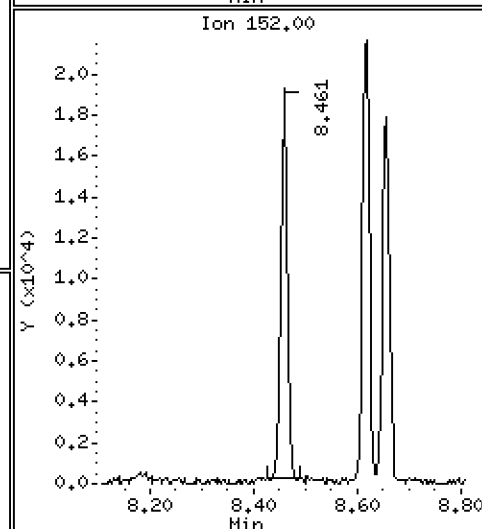
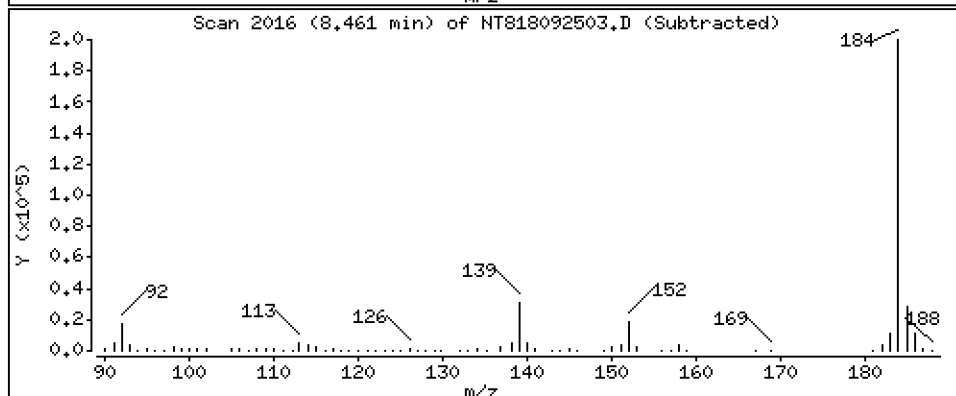
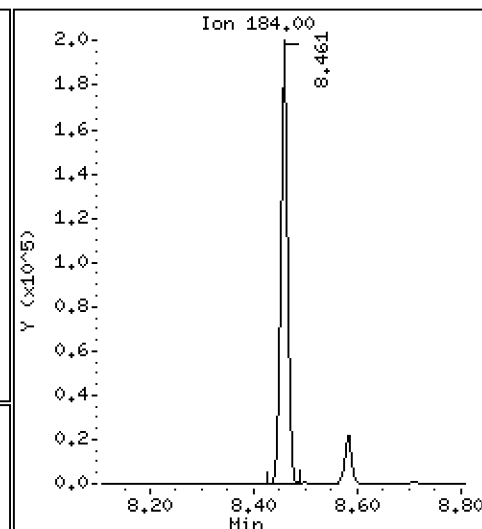
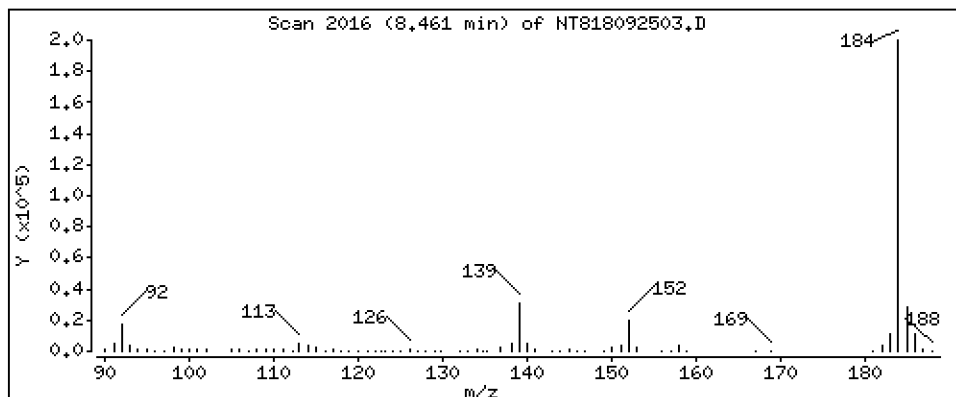
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

18 Dibenzothiophene

Concentration: 2,470 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

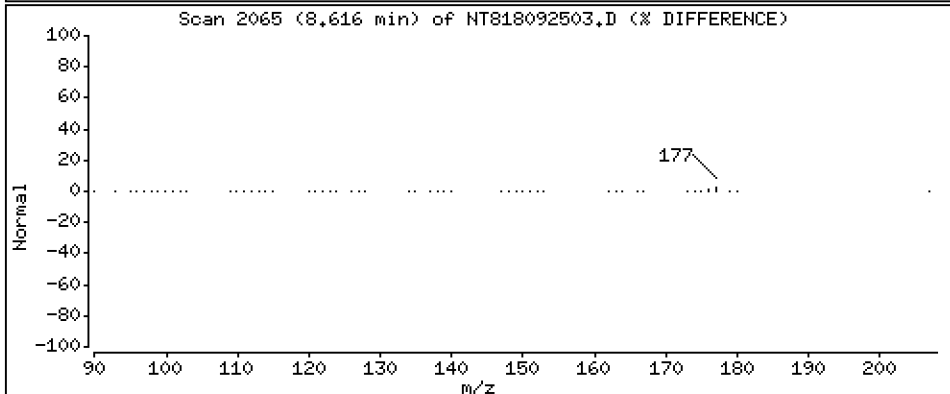
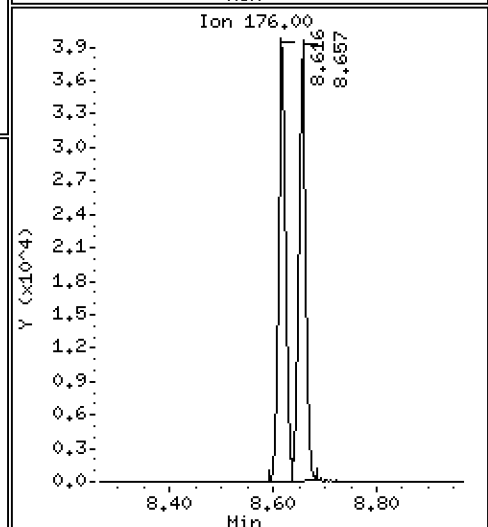
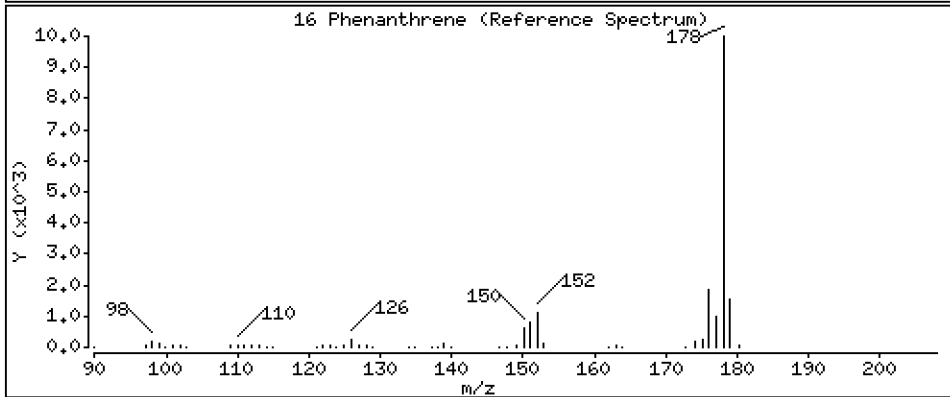
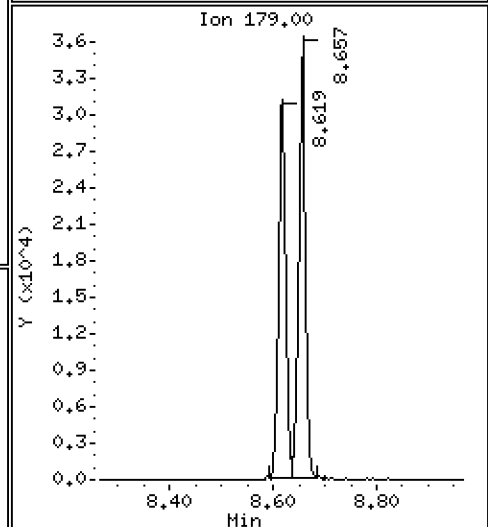
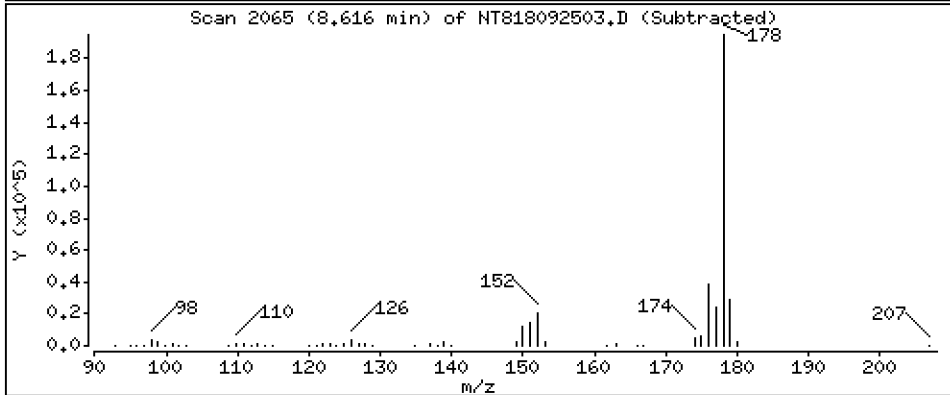
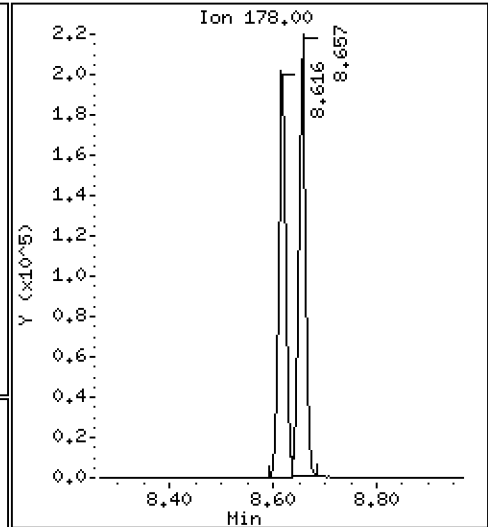
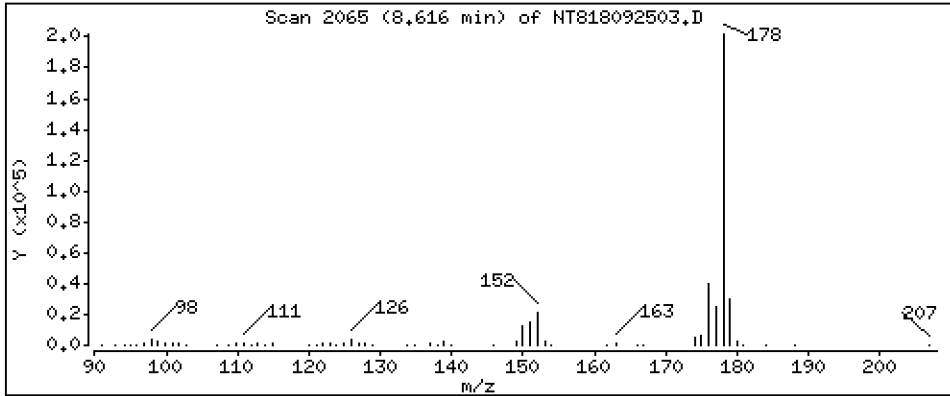
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

16 Phenanthrene

Concentration: 2,449 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

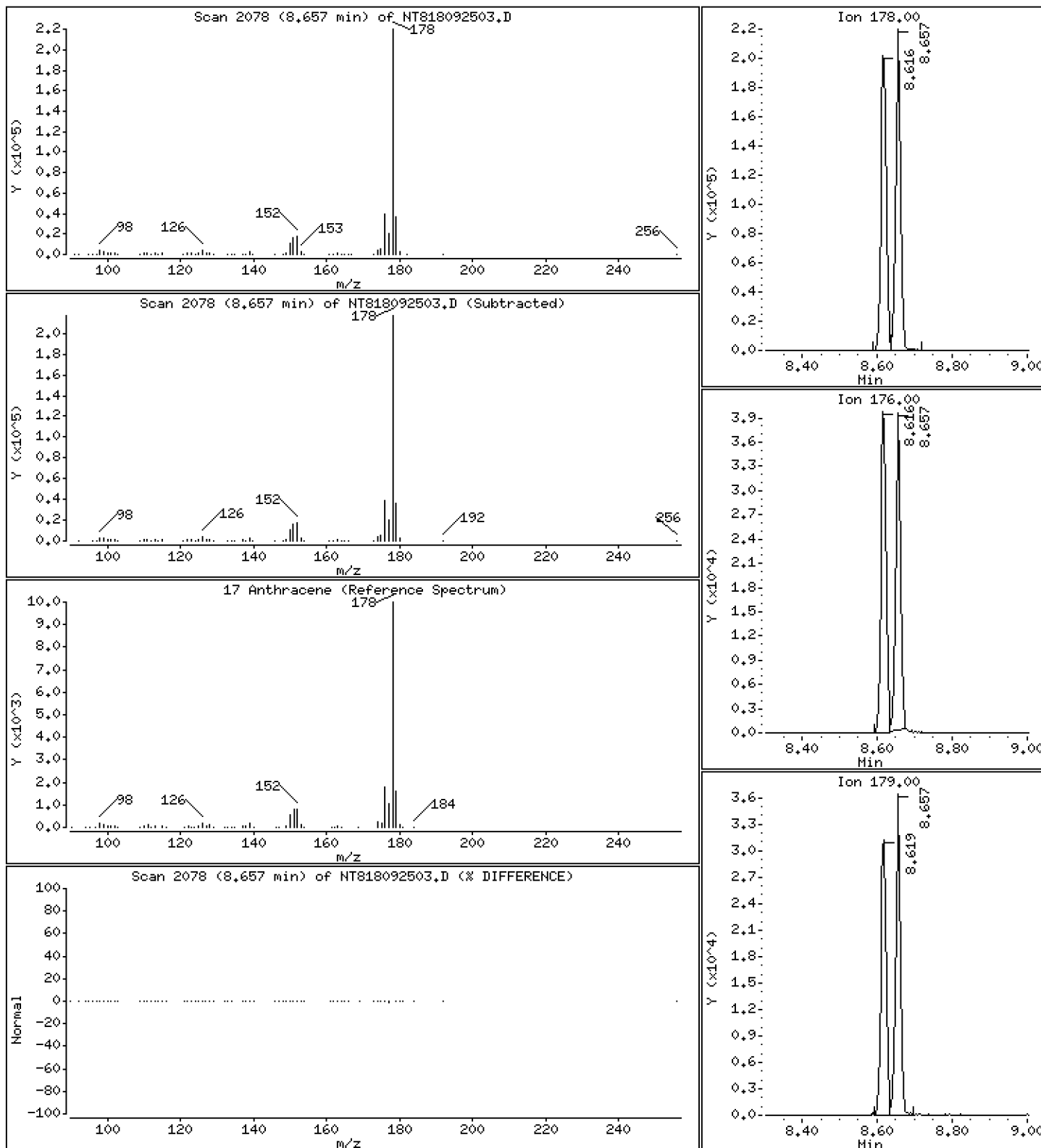
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

17 Anthracene

Concentration: 2,572 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

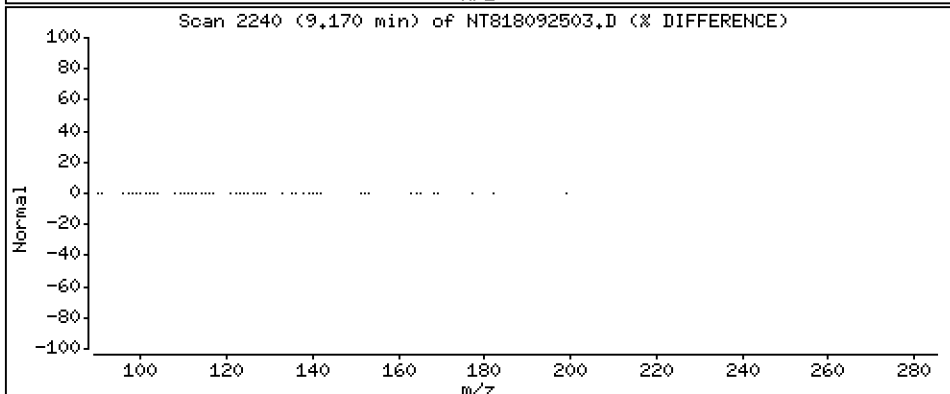
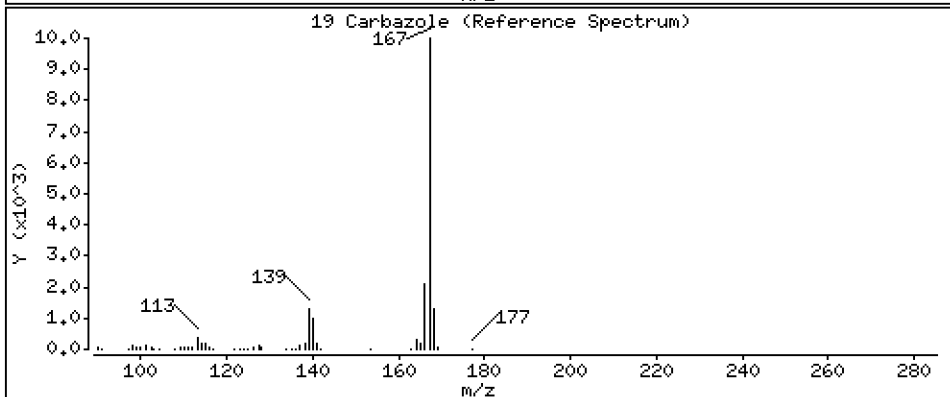
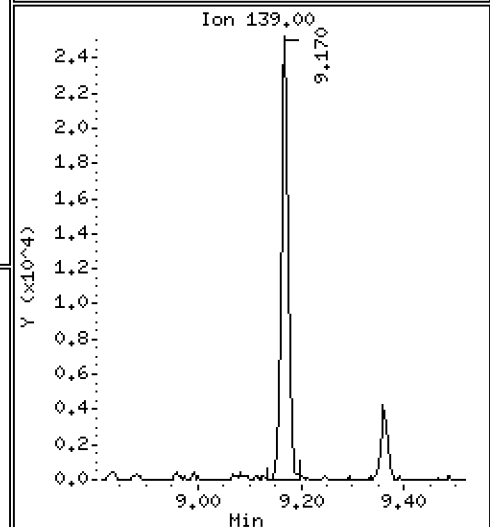
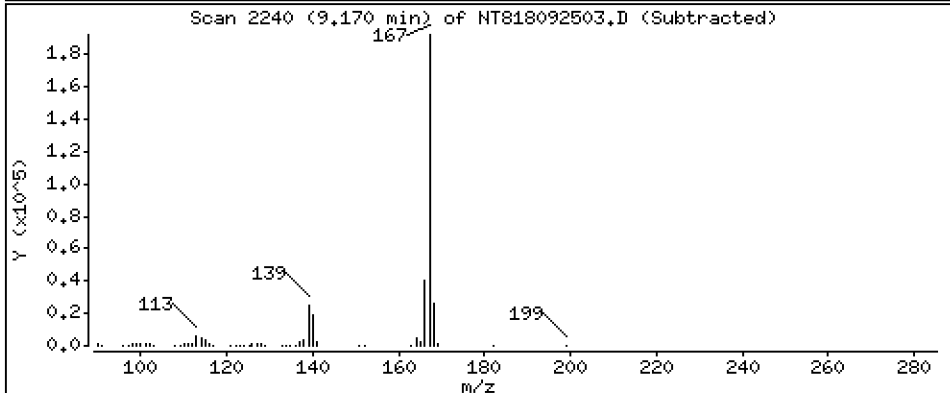
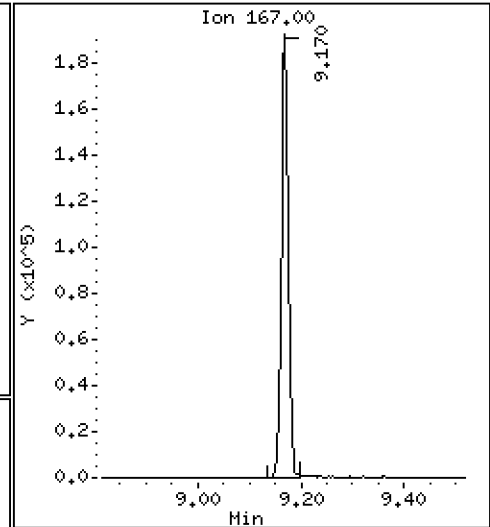
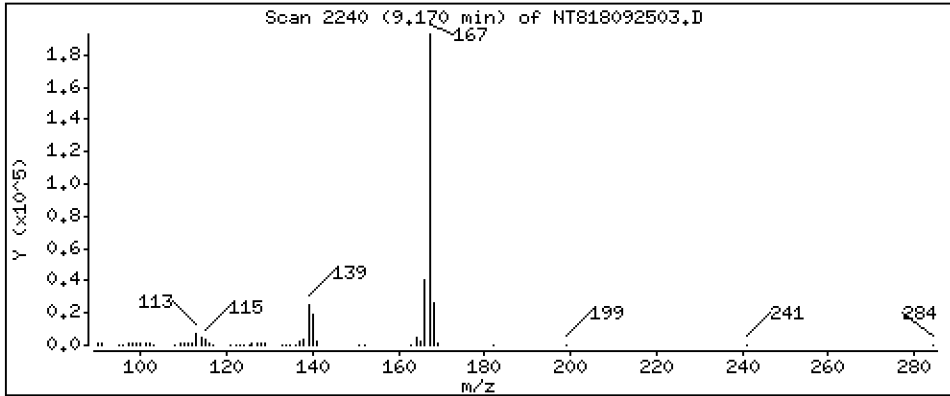
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

19 Carbazole

Concentration: 2,510 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

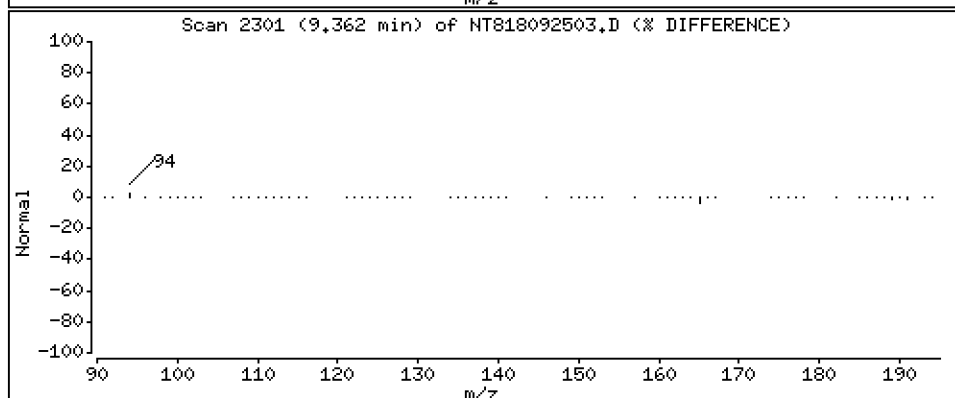
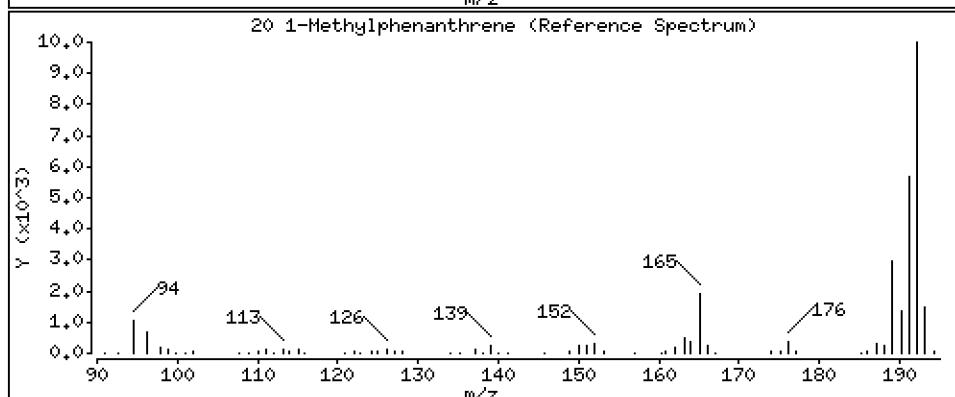
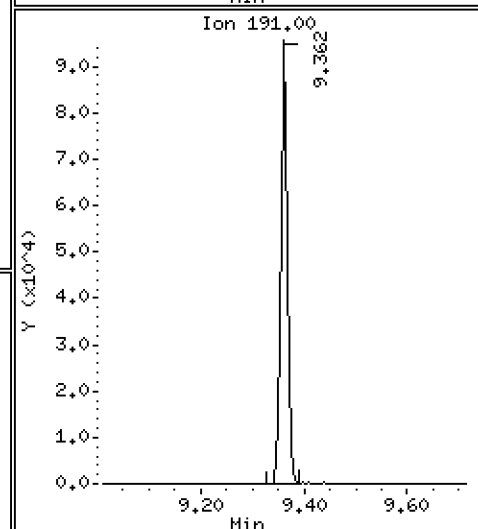
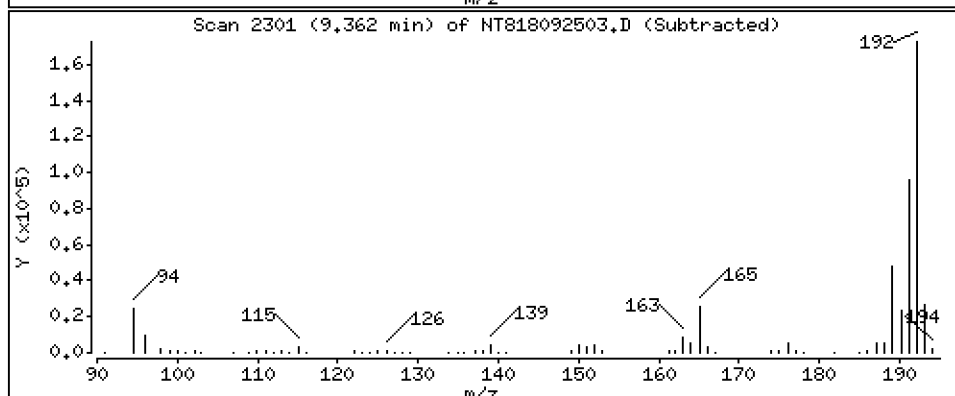
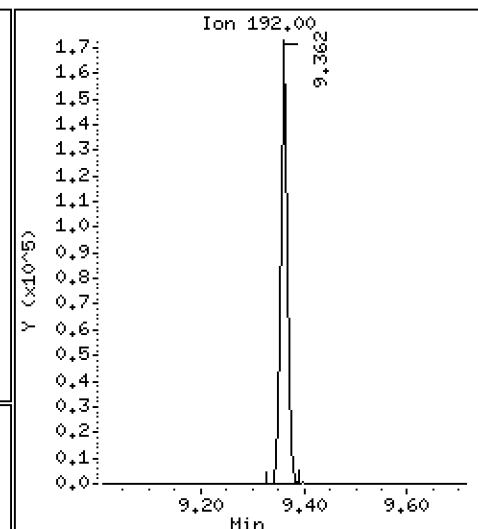
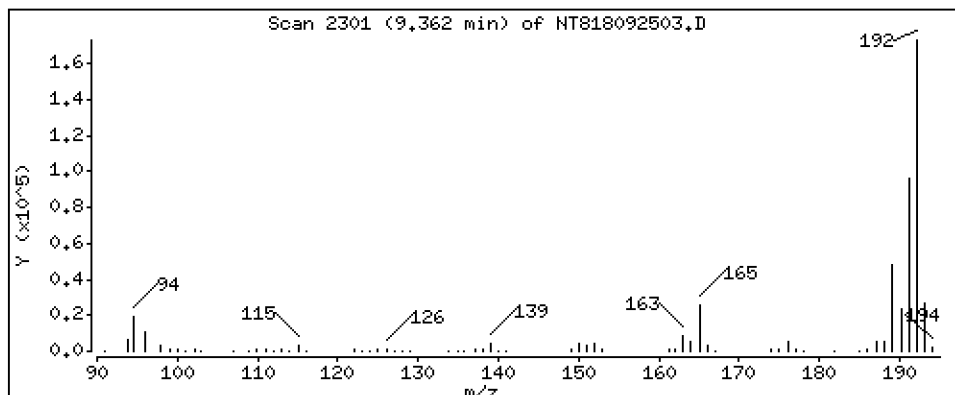
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

20 1-Methylphenanthrene

Concentration: 2,447 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

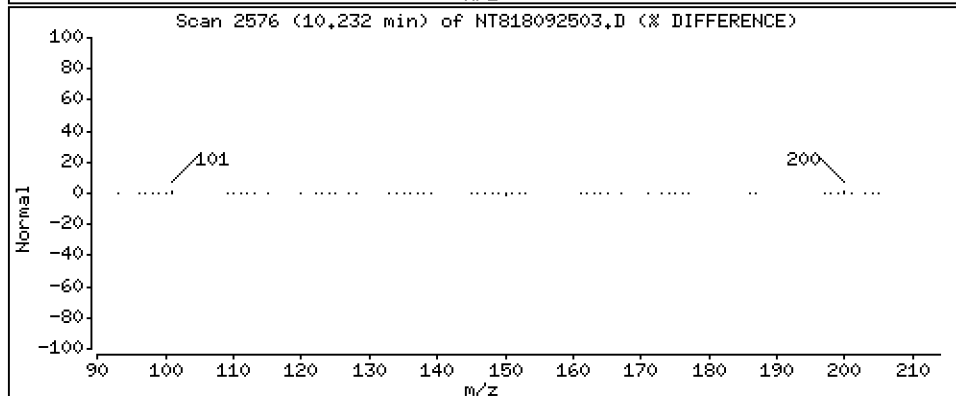
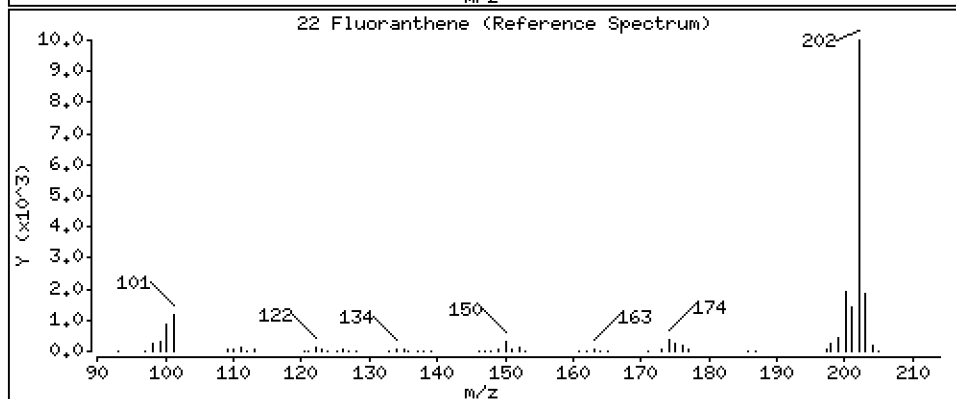
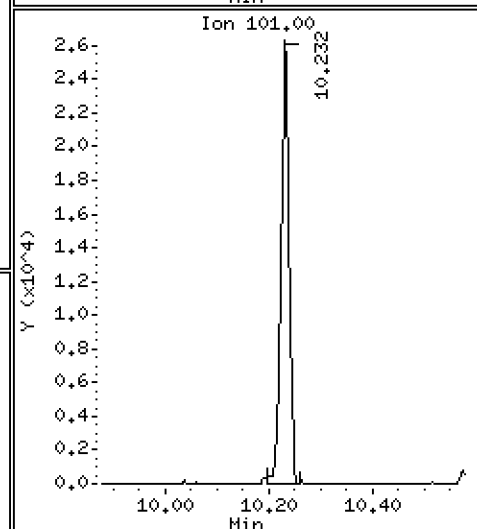
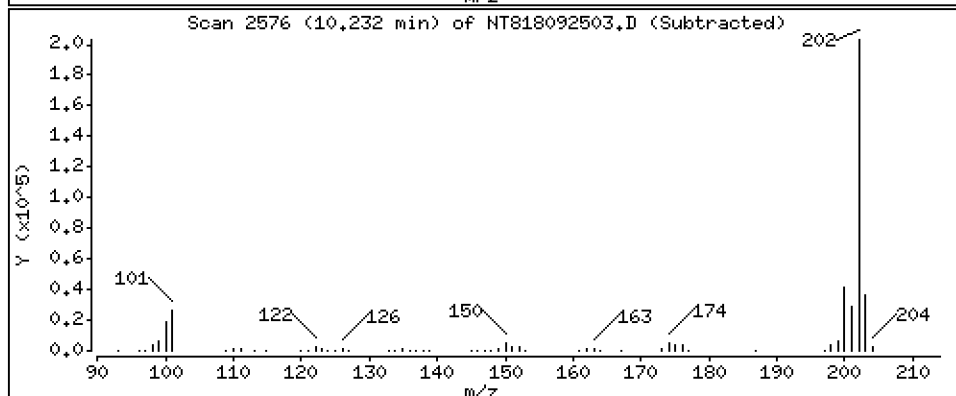
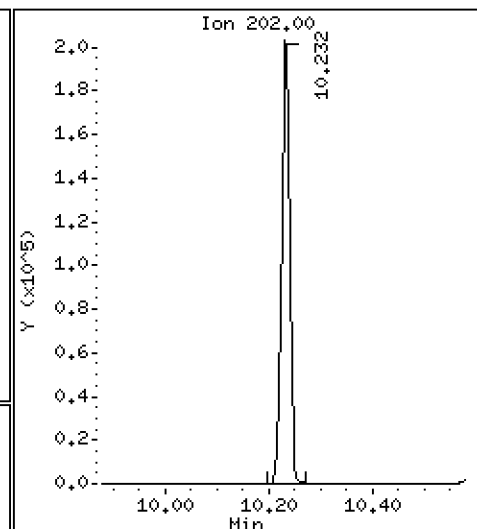
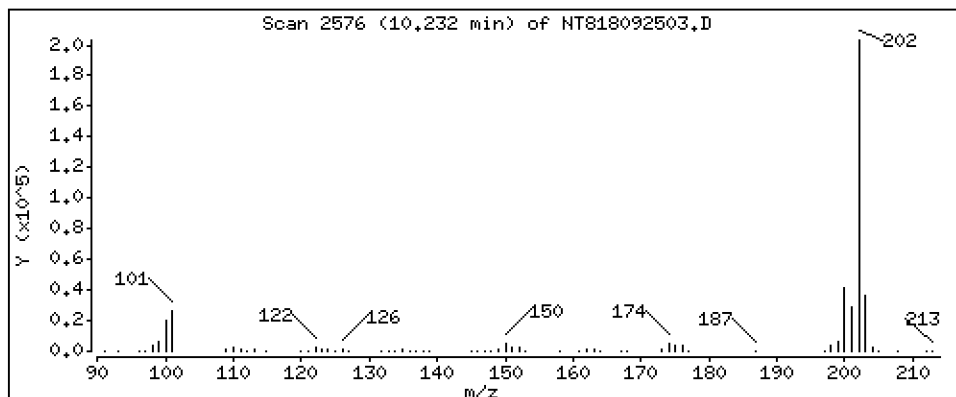
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 2,416 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

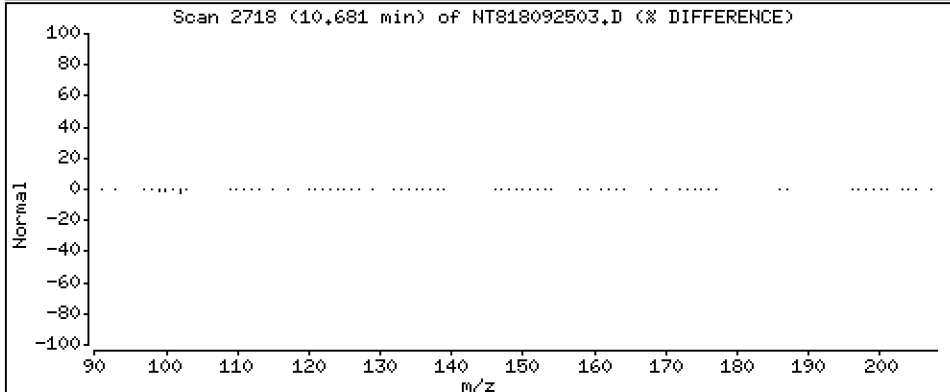
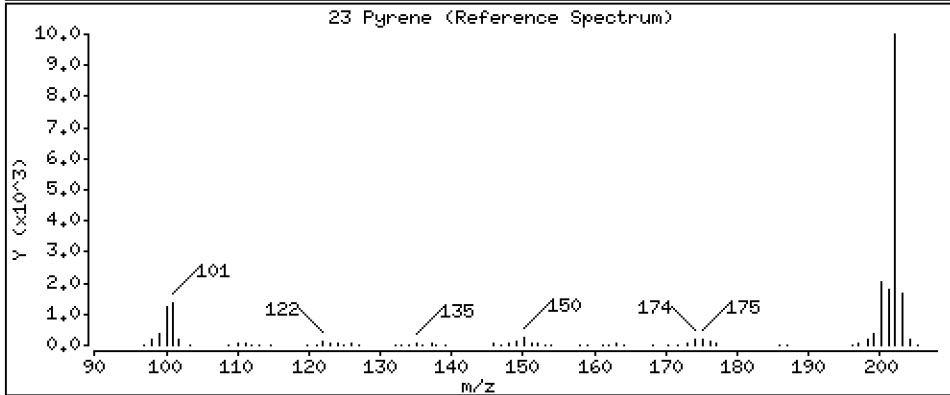
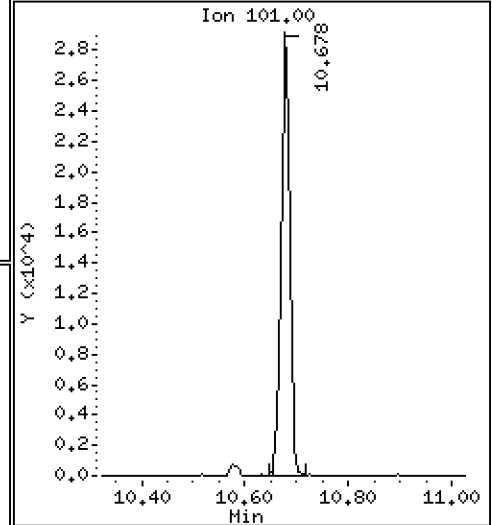
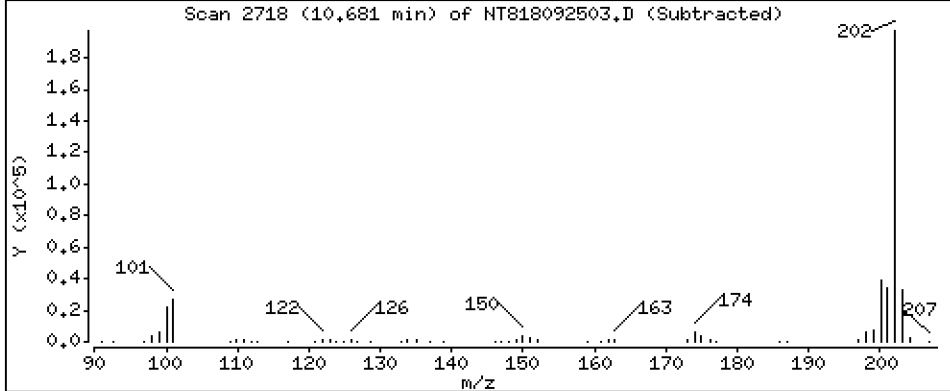
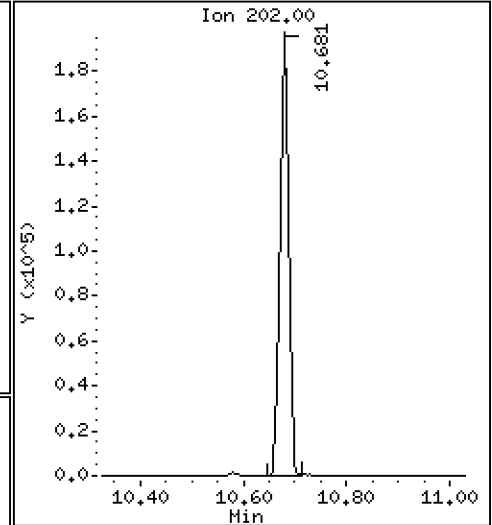
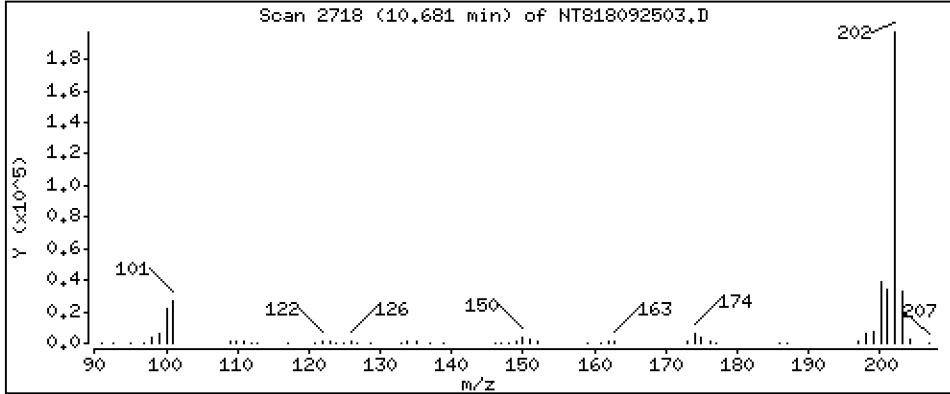
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 2,511 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

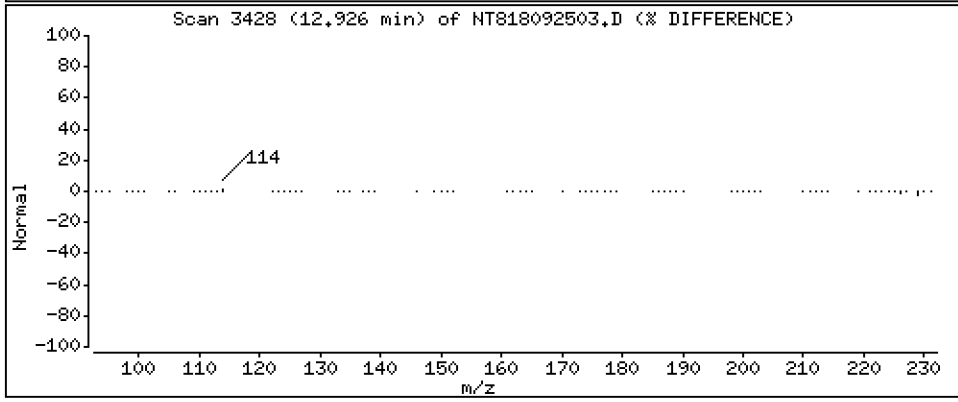
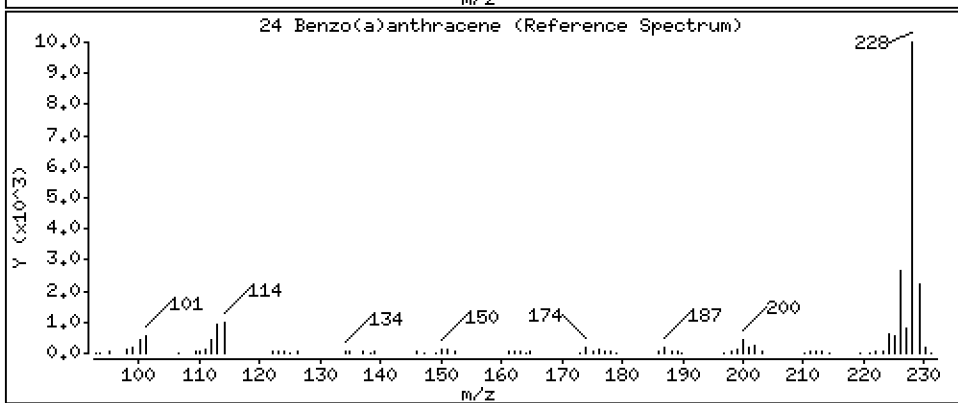
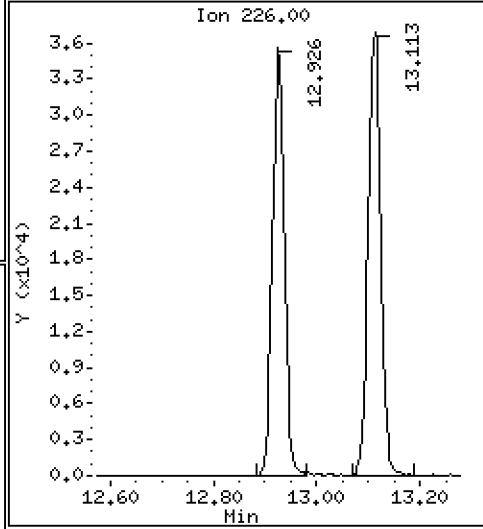
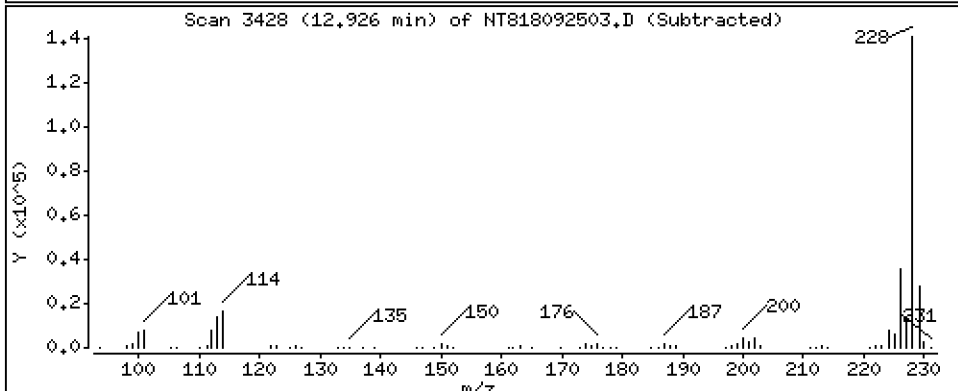
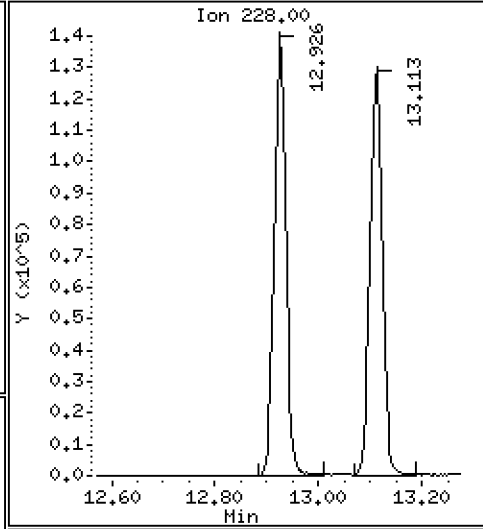
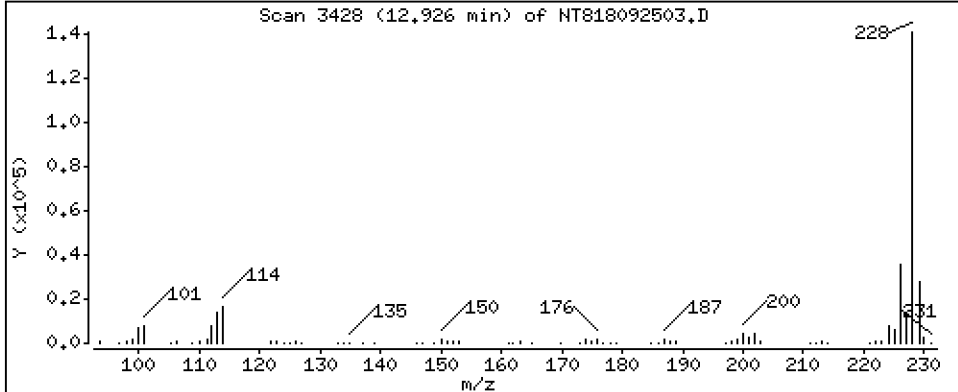
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 2,458 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

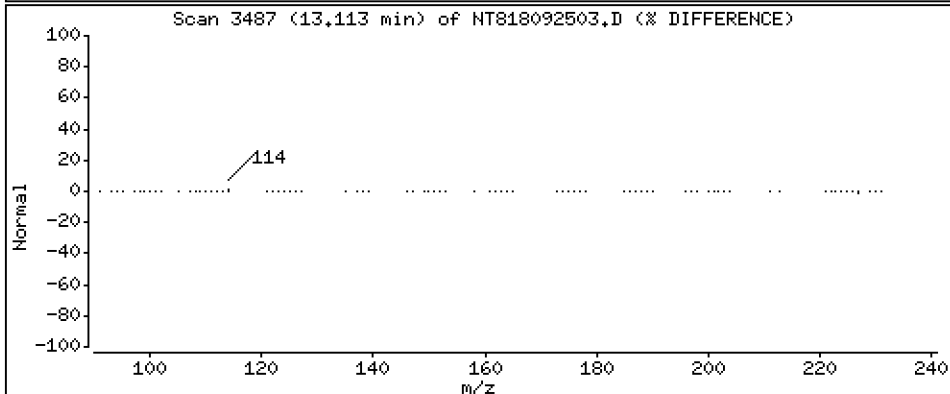
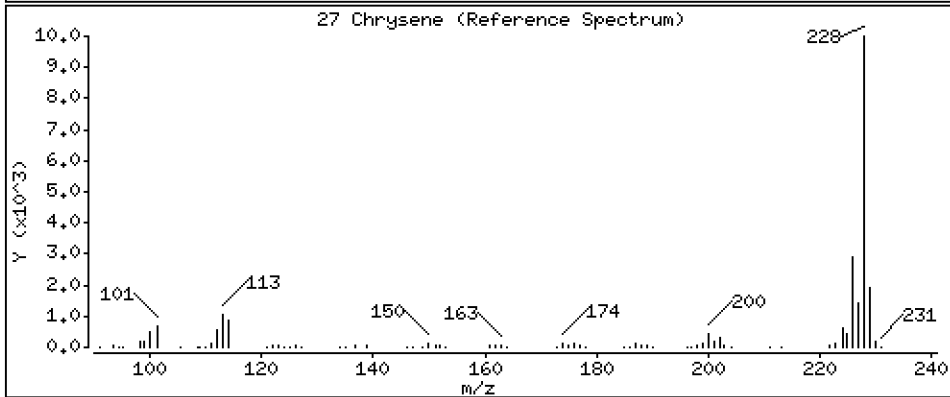
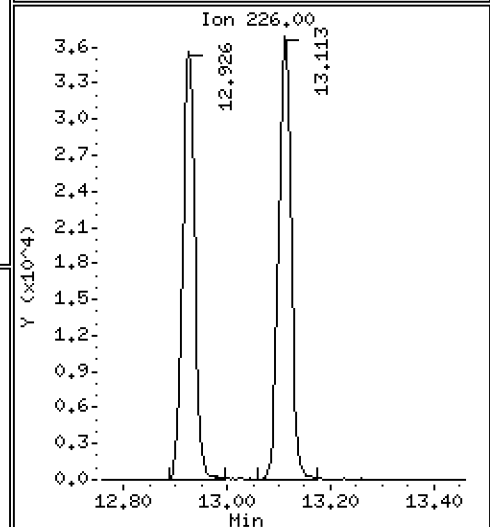
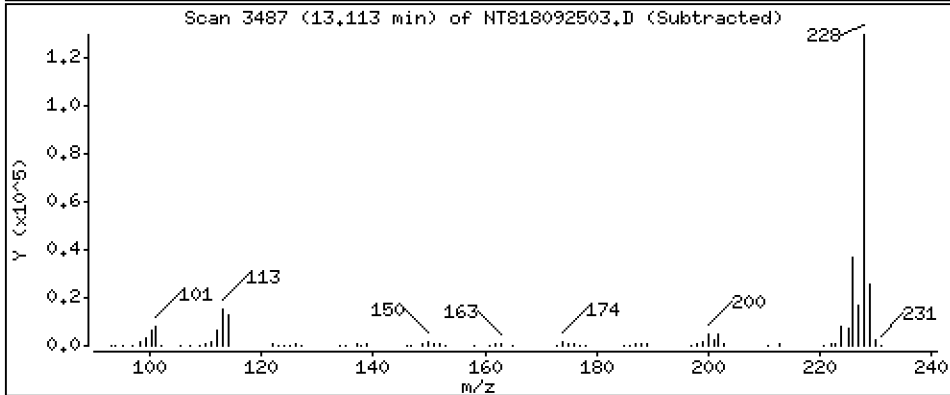
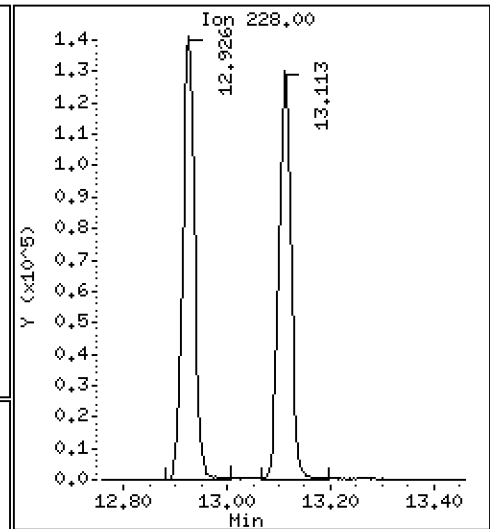
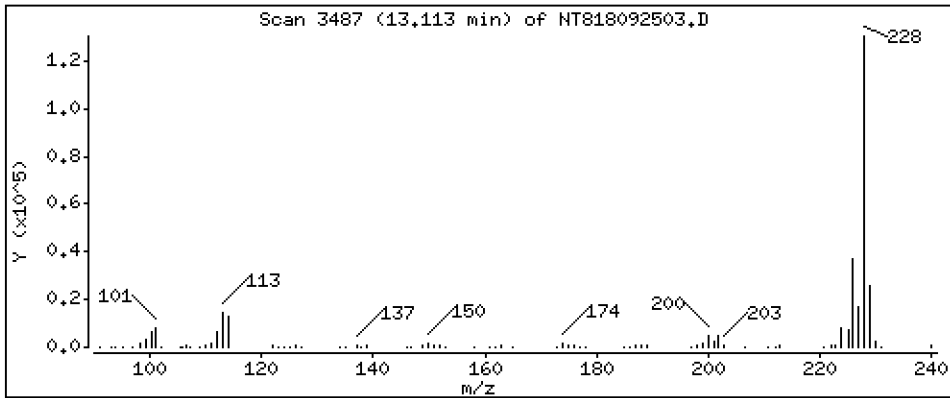
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 2,510 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

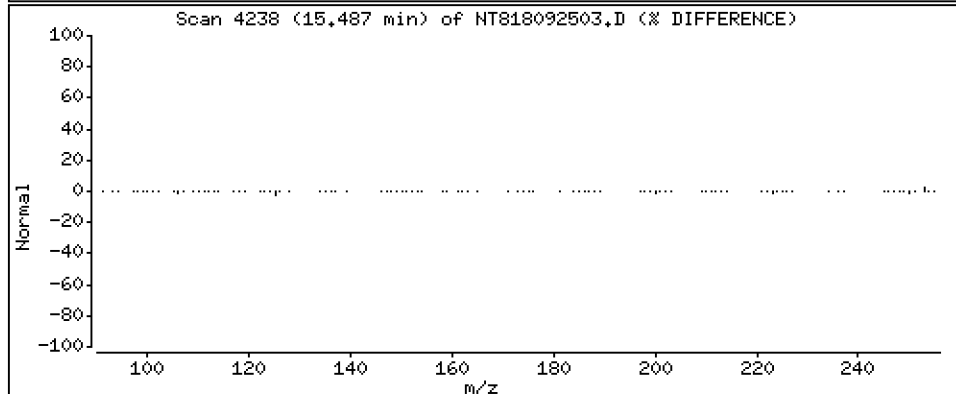
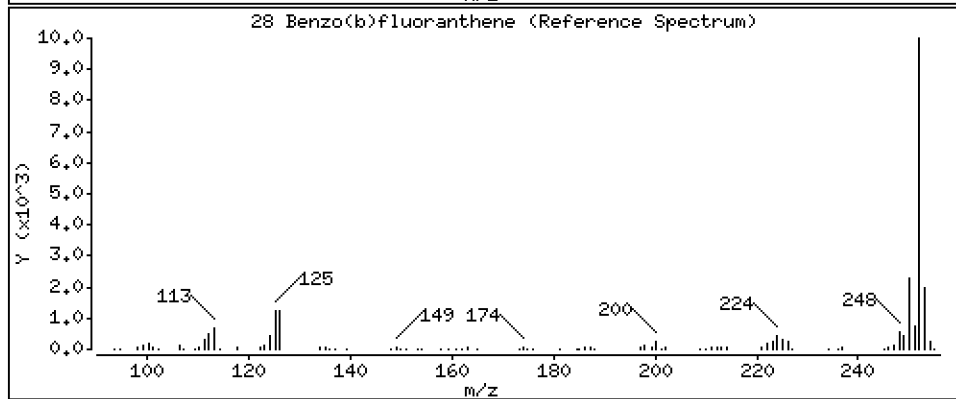
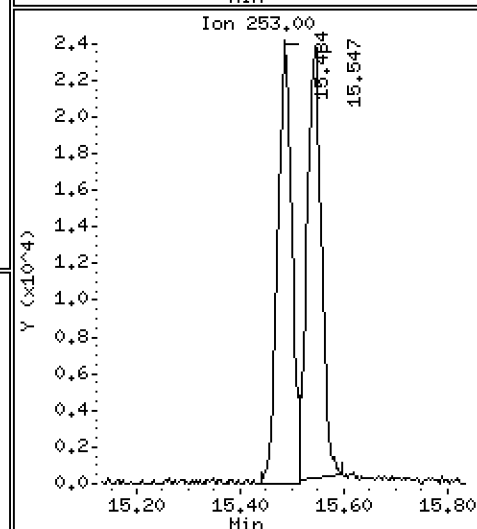
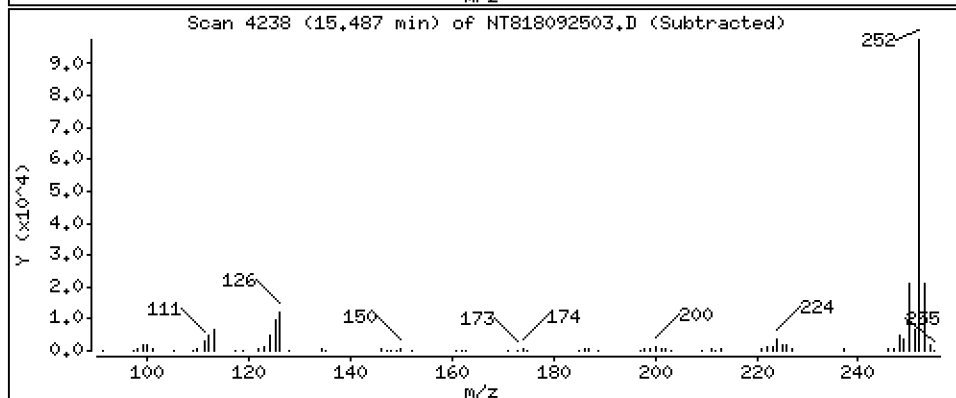
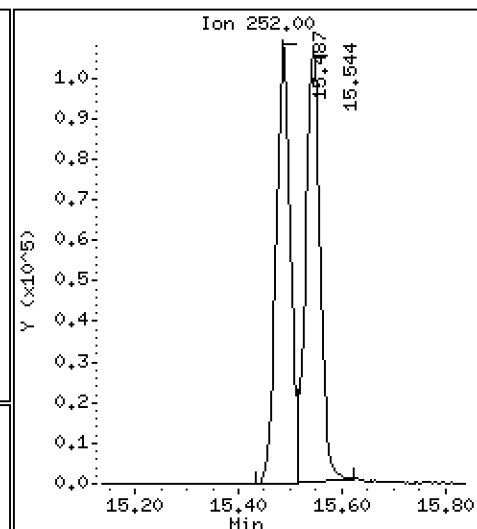
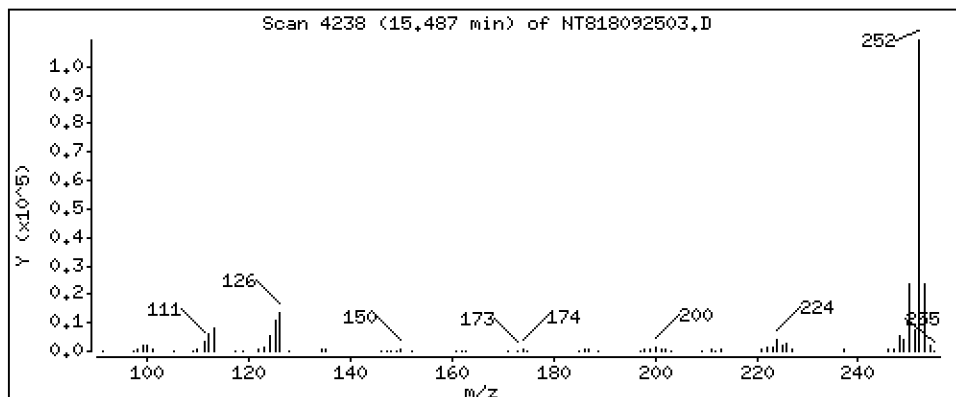
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 2,520 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

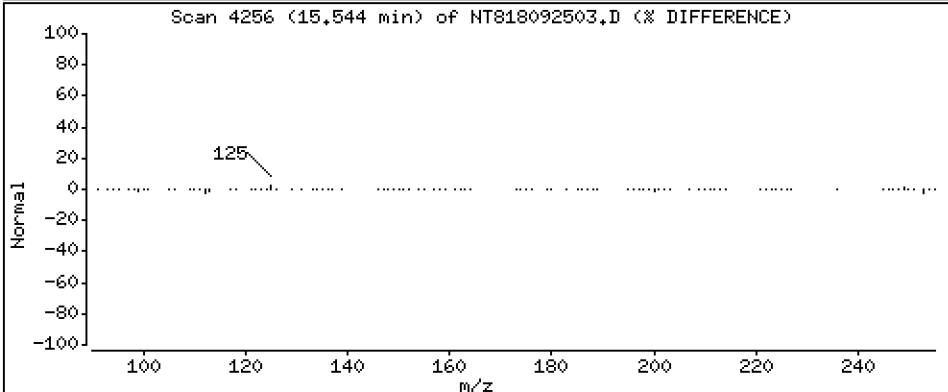
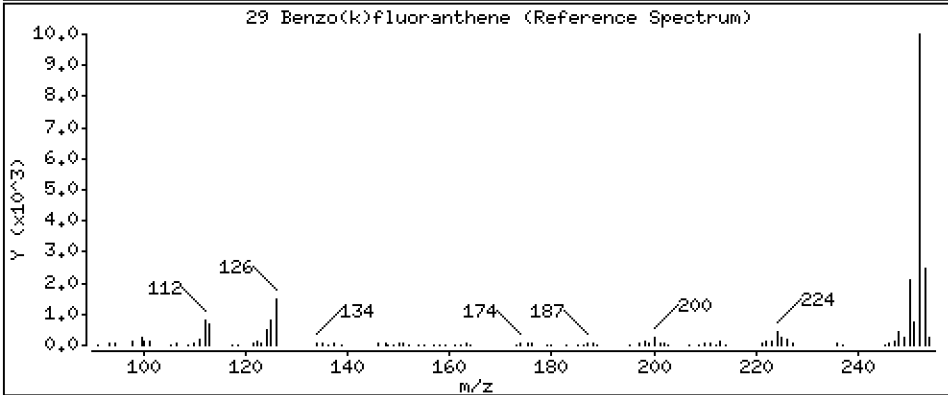
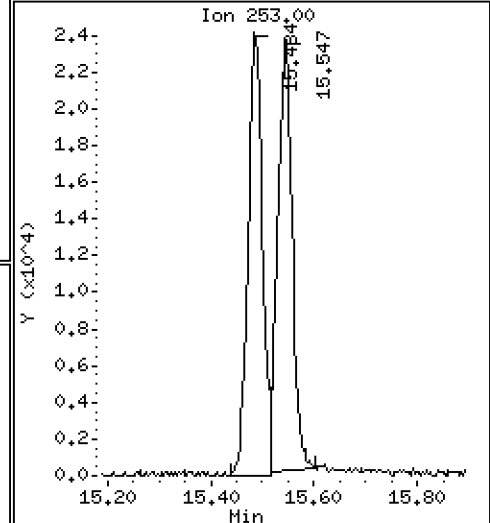
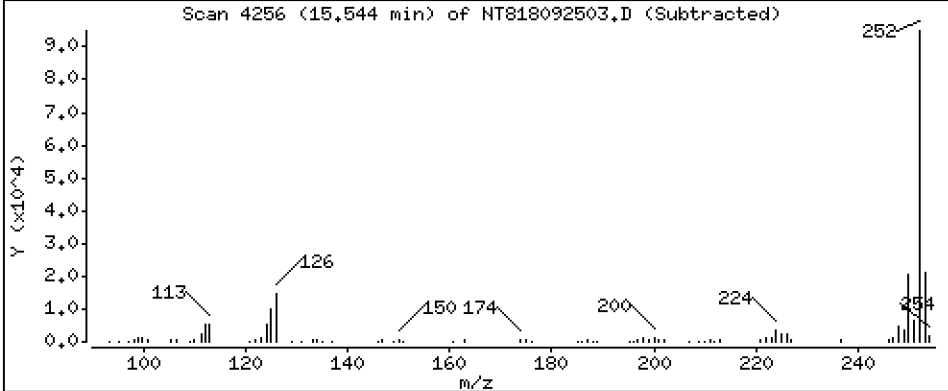
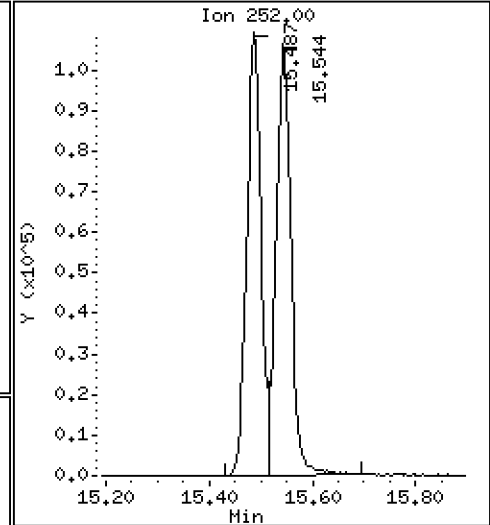
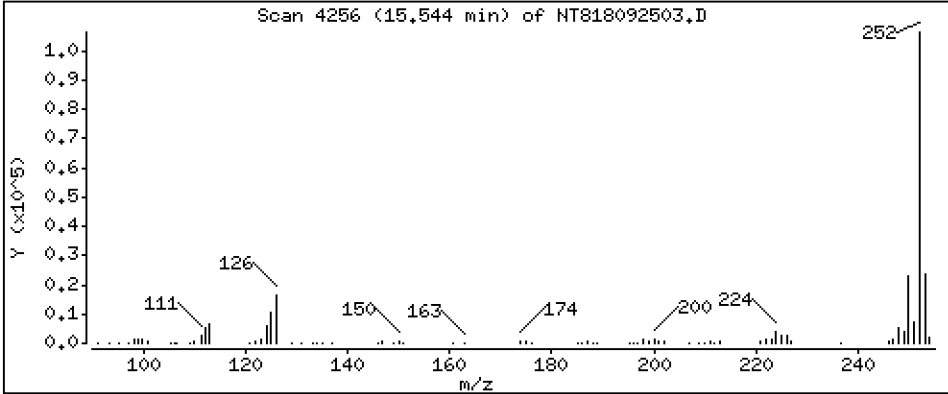
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 2,624 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

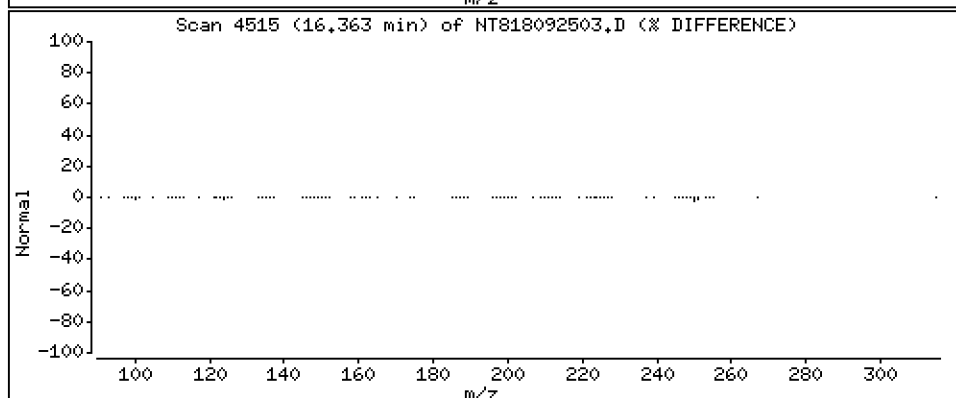
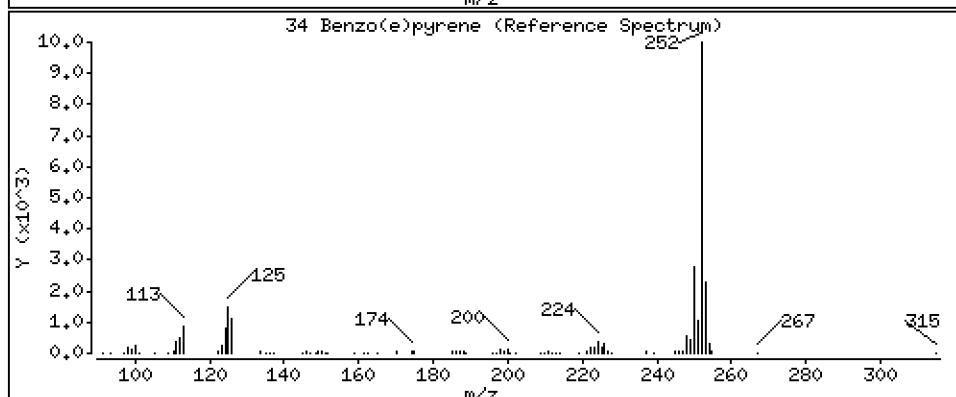
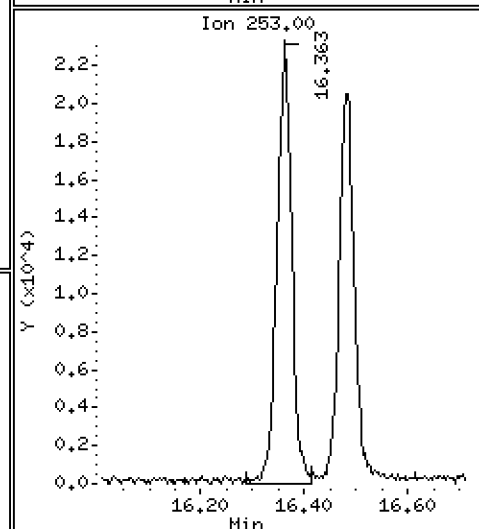
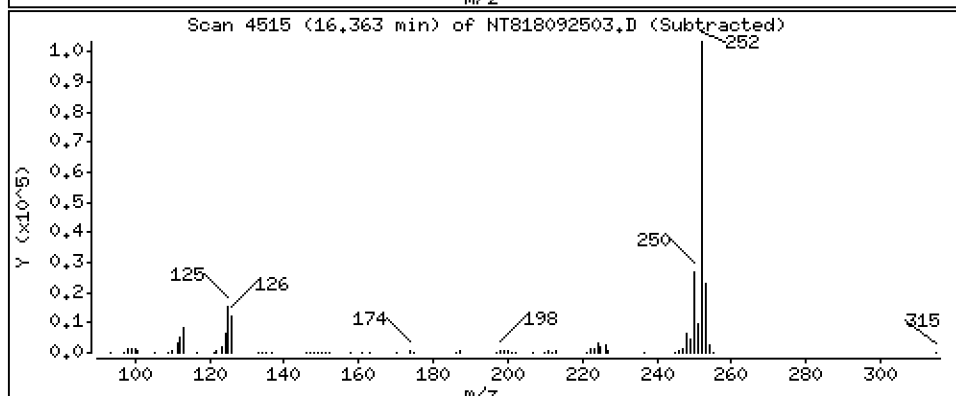
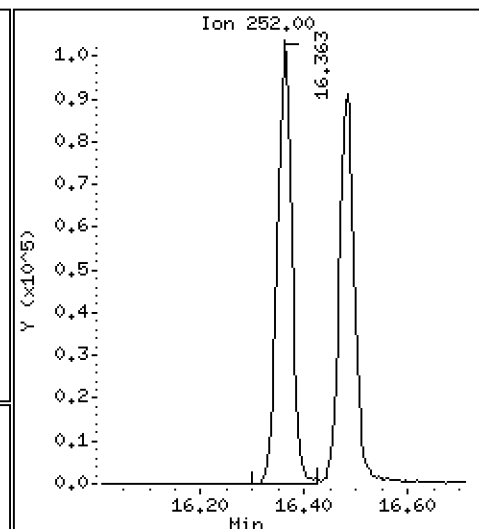
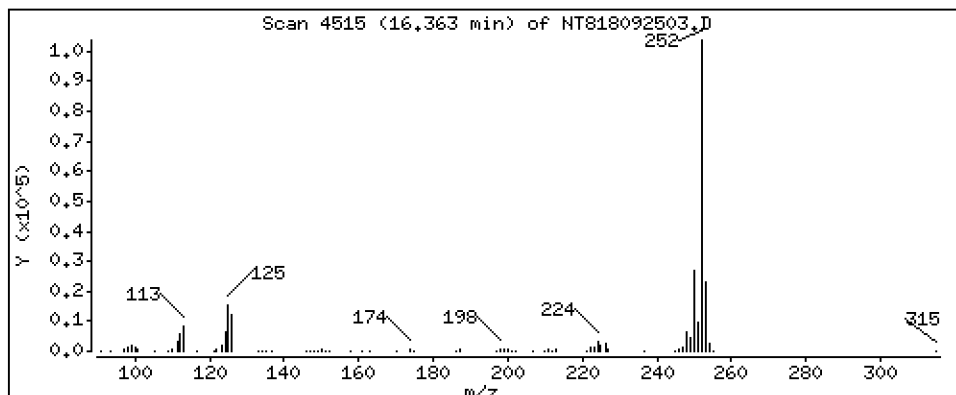
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

34 Benzo(e)pyrene

Concentration: 2,539 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

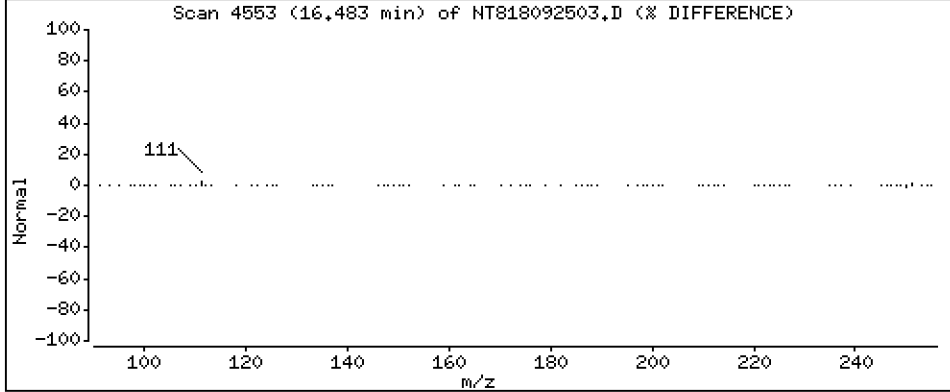
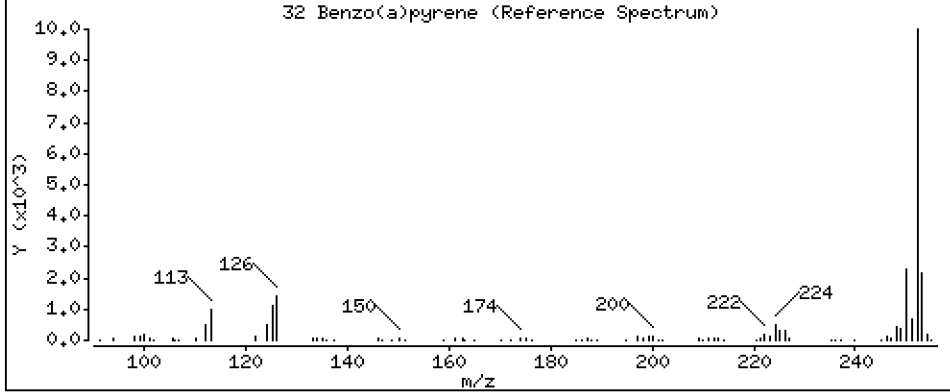
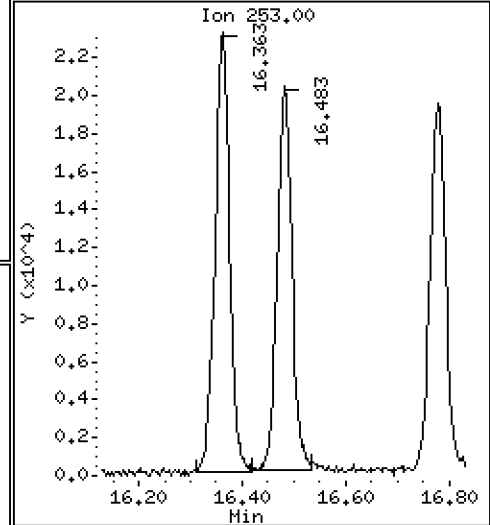
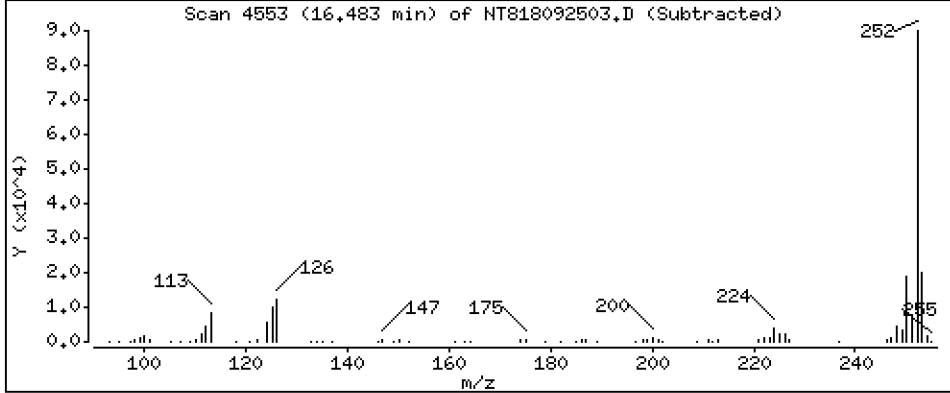
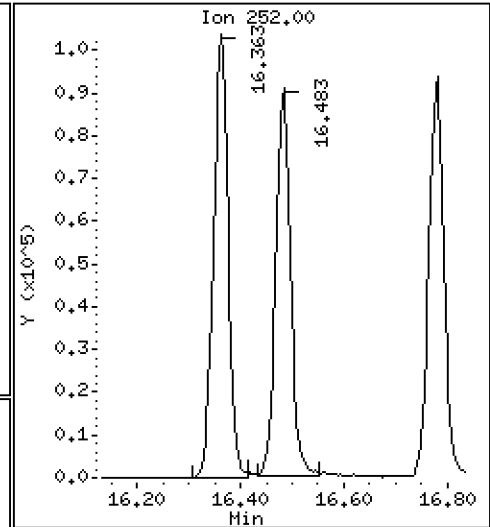
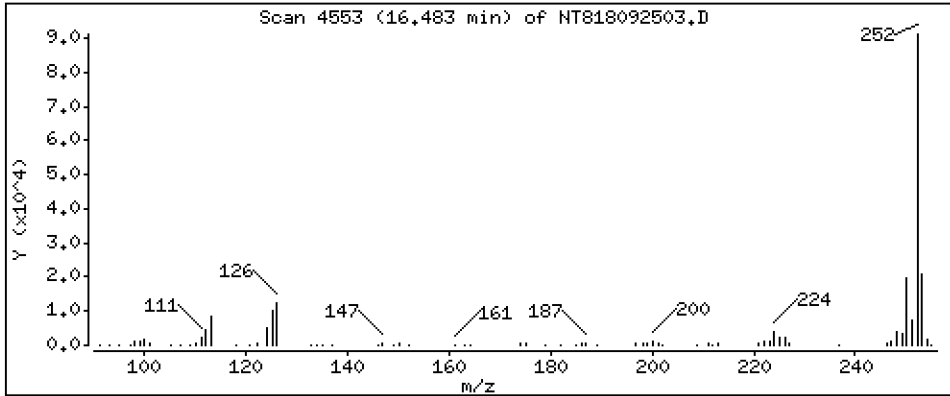
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 2,415 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

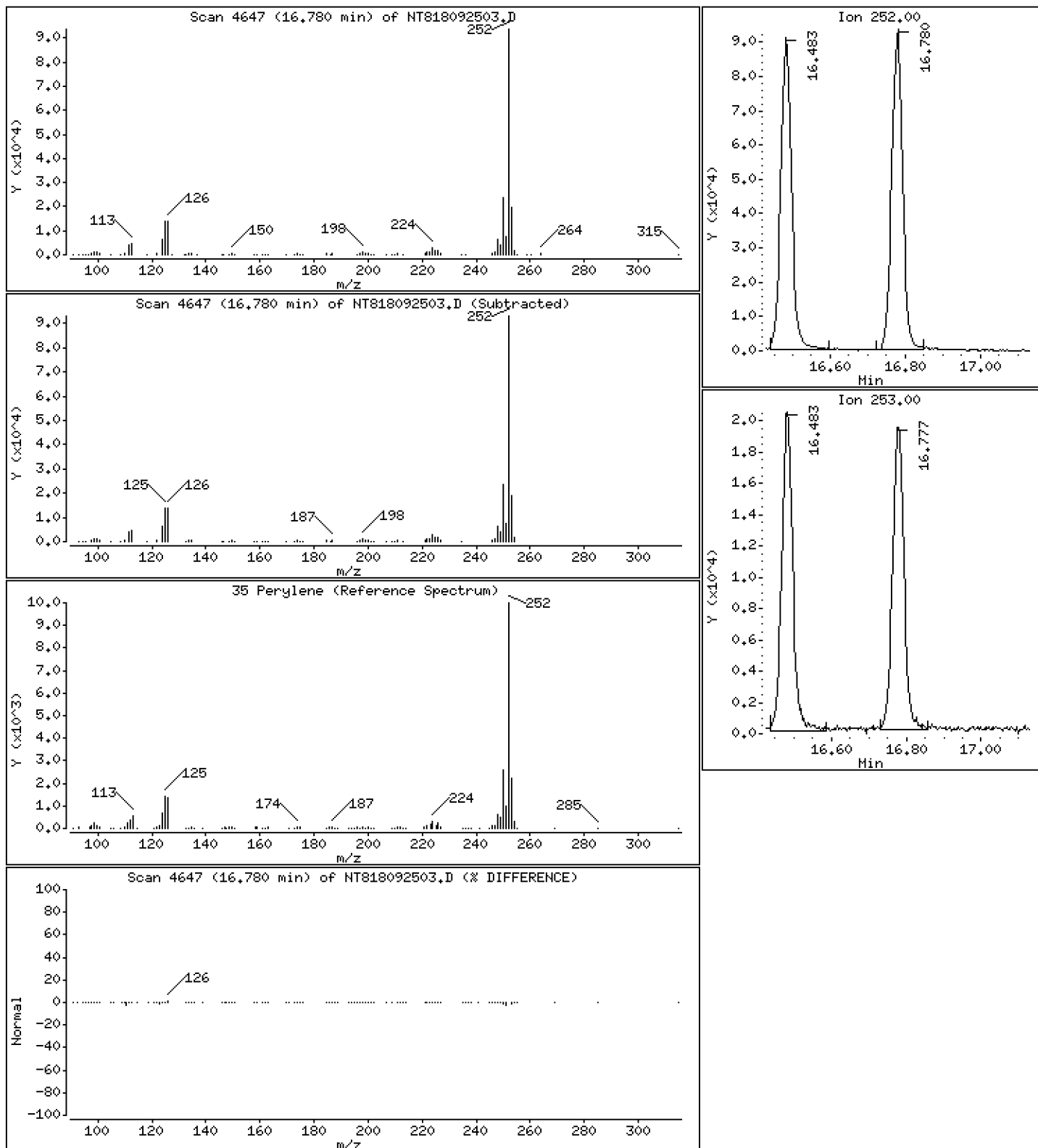
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 2,440 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

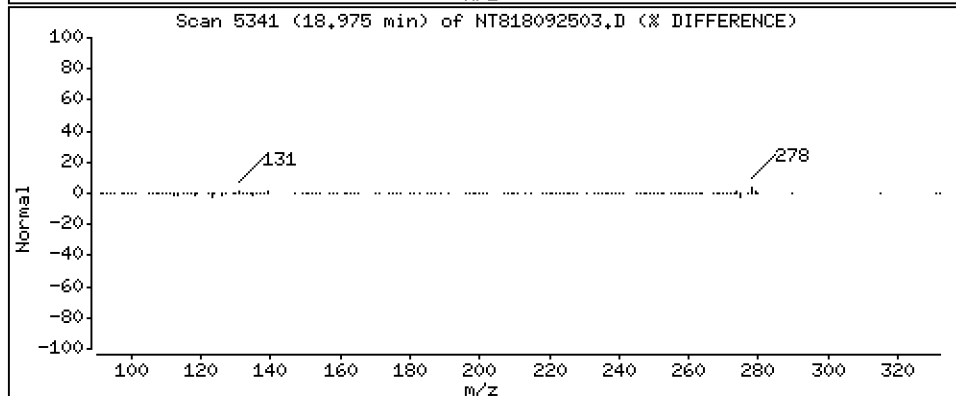
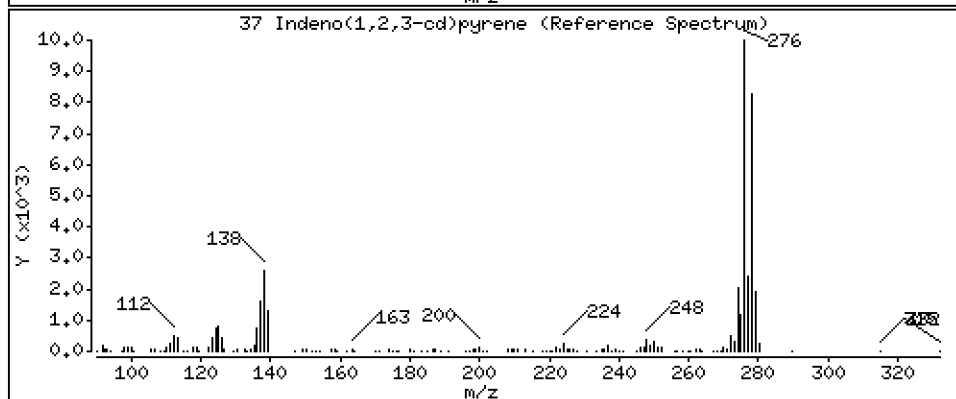
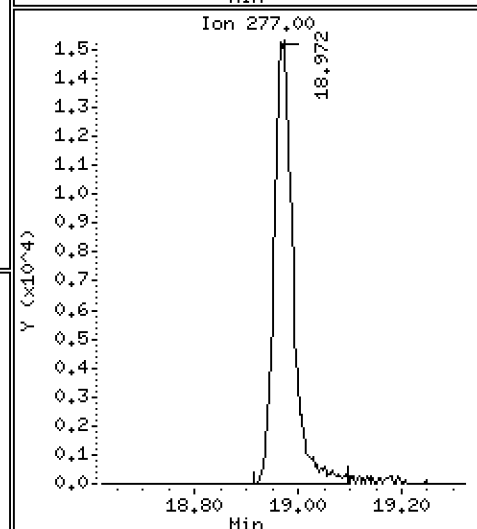
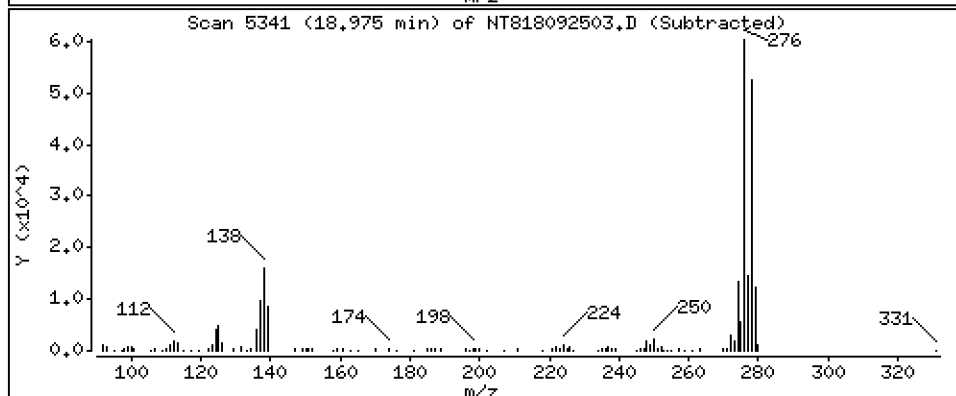
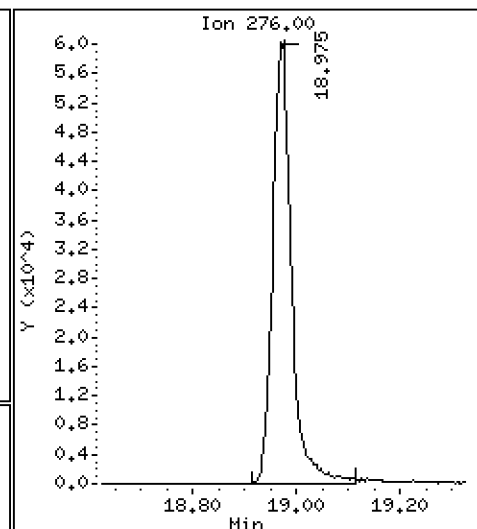
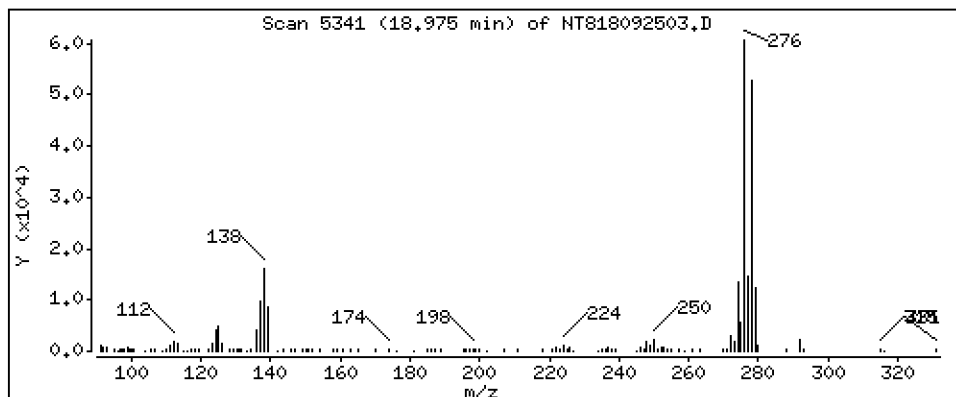
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 1,940 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

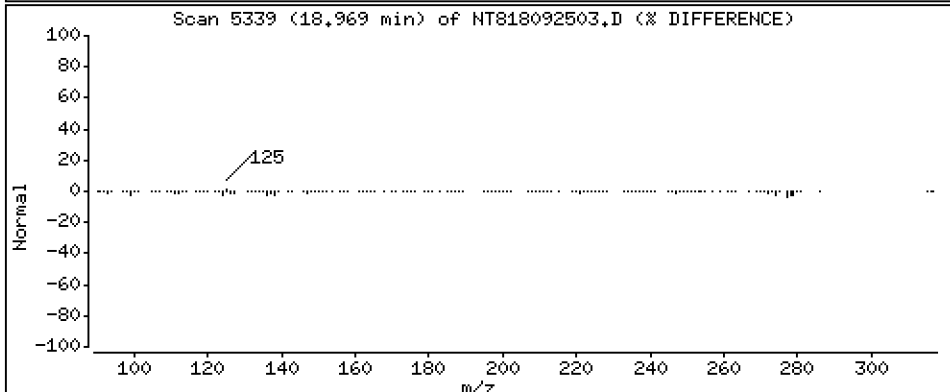
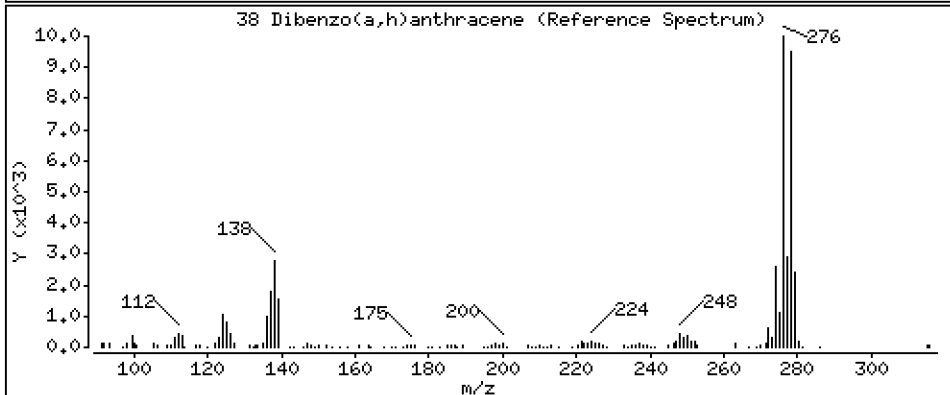
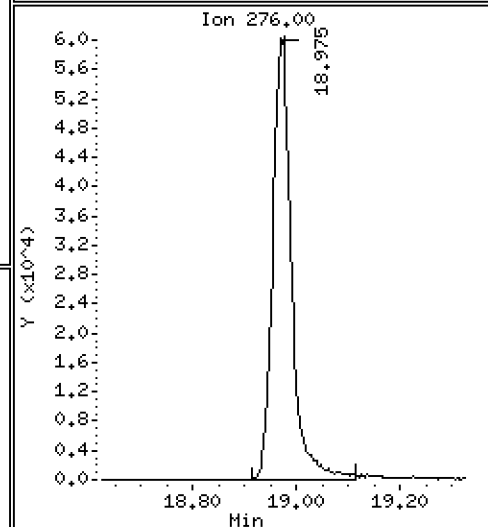
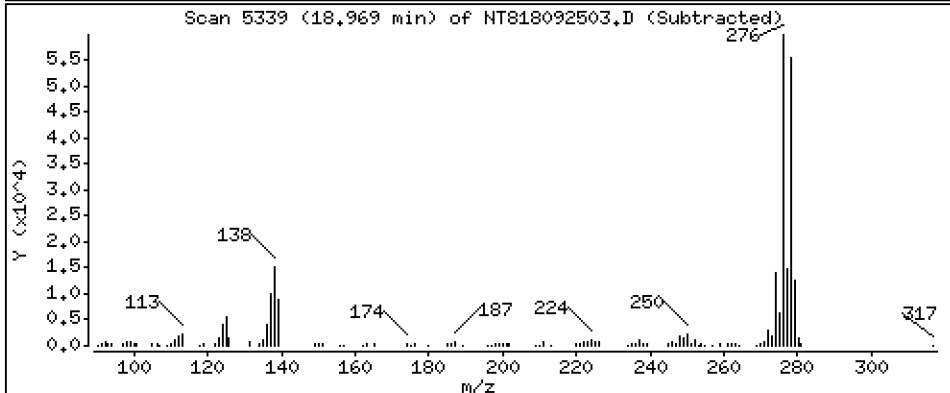
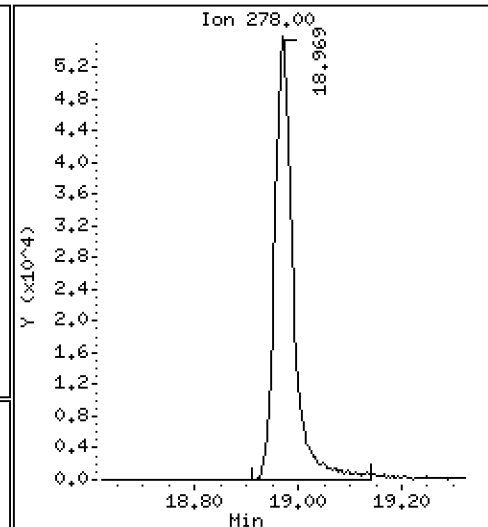
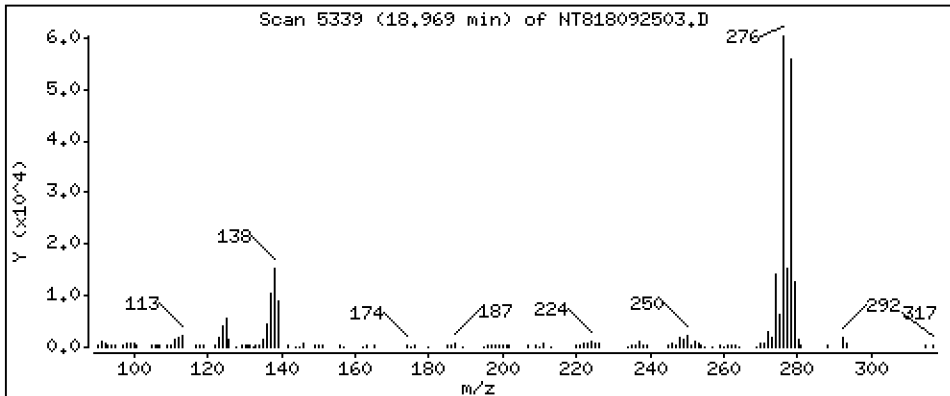
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 2,105 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

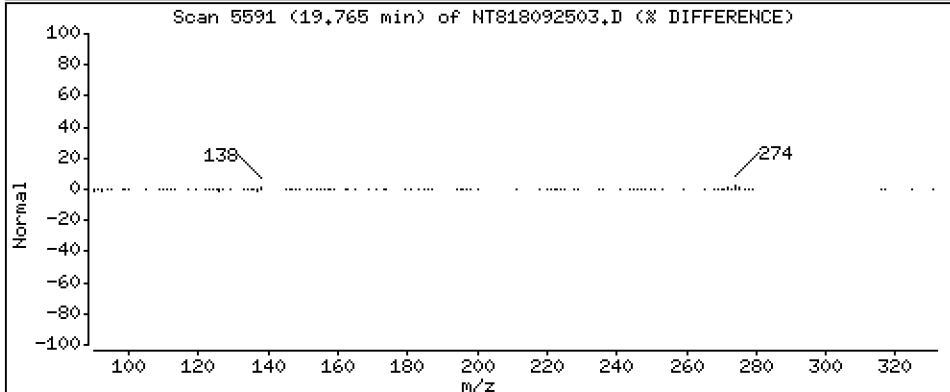
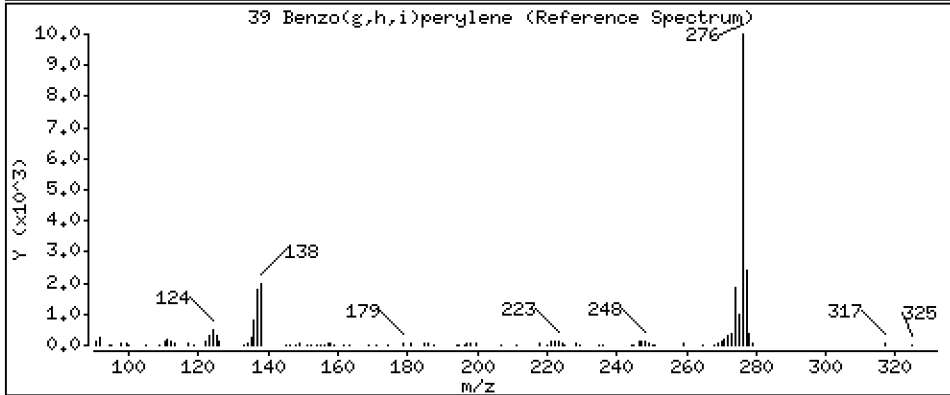
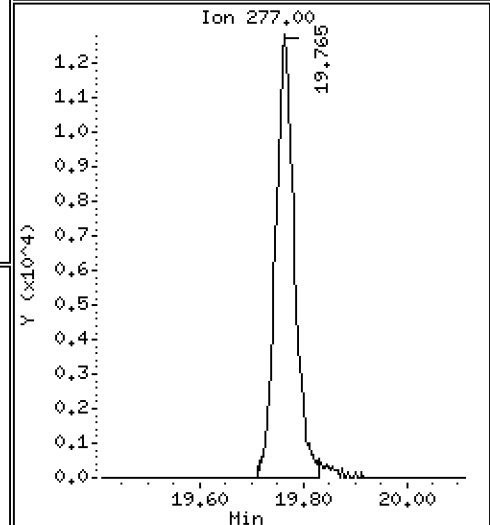
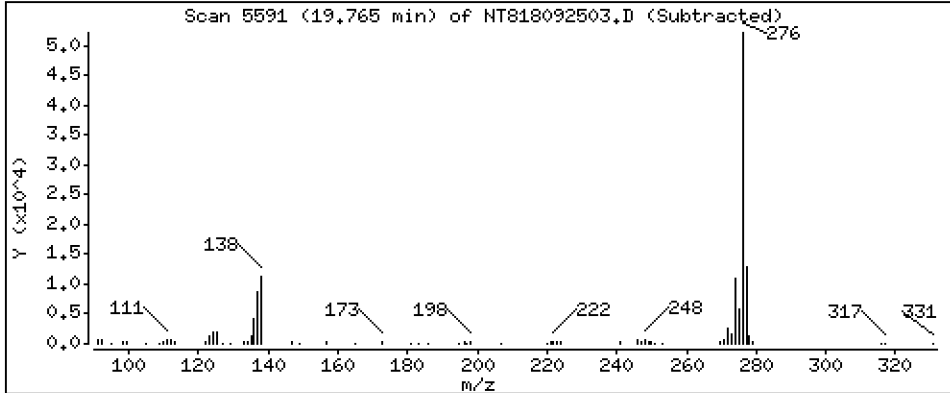
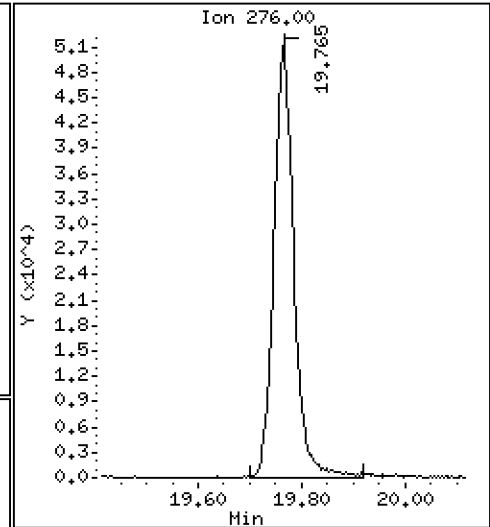
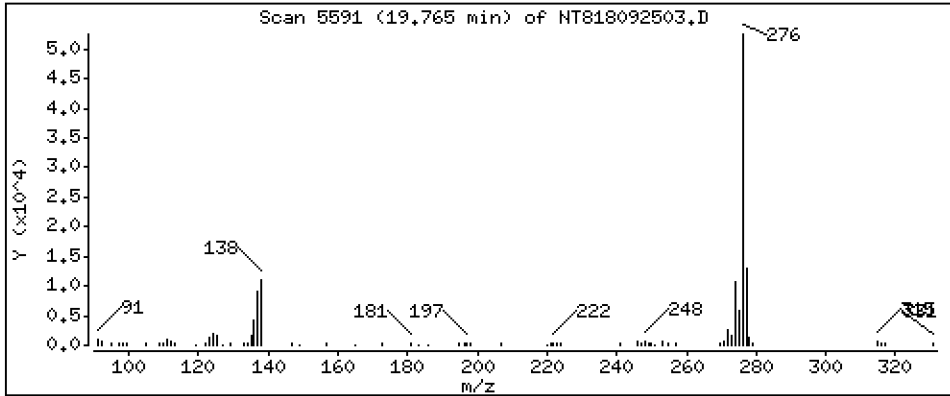
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 2,167 ug/mL



ARI Labs, Inc.

Semivolatle Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180925.b\NT818092503.D
 Lab Smp Id: SGH0048-SCV2
 Inj Date : 25-SEP-2018 11:55
 Operator : JZ Inst ID: nt8.i
 Smp Info : SGH0048-SCV2
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20180925.b\FSIMPNA180803.m
 Meth Date : 25-Sep-2018 16:05 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SCV.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.341	4.341	(1.000)	142291	2.00000	
2 Naphthalene	128		4.369	4.369	(1.007)	186997	2.41129	2.411
§ 3 2-Methylnaphthalene-d10	152		5.062	5.058	(1.166)	125064	2.48530	2.485
4 2-Methylnaphthalene	141		5.106	5.106	(1.176)	105871	2.43461	2.435
5 1-methylnaphthalene	141		5.302	5.299	(1.221)	107238	2.39523	2.395
7 Biphenyl	154		5.764	5.764	(0.875)	155903	2.37009	2.370
8 2,6-Dimethylnaphthalene	156		5.802	5.798	(0.881)	115773	2.42181	2.422
9 Acenaphthylene	152		6.475	6.475	(0.983)	190872	2.39580	2.396
* 10 Acenaphthene-d10	164		6.586	6.586	(1.000)	75112	2.00000	
11 Acenaphthene	153		6.636	6.633	(1.008)	125329	2.33369	2.334
12 Dibenzofuran	168		6.782	6.782	(1.030)	173295	2.32938	2.329
13 1,6,7-Trimethylnaphthalene	170		6.855	6.854	(1.041)	113806	2.35933	2.359
14 Fluorene	166		7.250	7.250	(1.101)	140208	2.27547	2.275
18 Dibenzothiophene	184		8.461	8.458	(0.986)	189831	2.46983	2.470
* 15 Phenanthrene-d10	188		8.584	8.581	(1.000)	149693	2.00000	
16 Phenanthrene	178		8.616	8.616	(1.004)	197677	2.44860	2.449
17 Anthracene	178		8.657	8.654	(1.008)	203285	2.57193	2.572
19 Carbazole	167		9.169	9.166	(1.068)	179536	2.51004	2.510
20 1-Methylphenanthrene	192		9.362	9.362	(1.091)	157458	2.44703	2.447
22 Fluoranthene	202		10.232	10.228	(1.192)	226779	2.41610	2.416
§ 21 Fluoranthene-d10	212		10.200	10.197	(1.188)	230231	2.43536	2.435
23 Pyrene	202		10.681	10.677	(0.819)	236924	2.51122	2.511
24 Benzo(a)anthracene	228		12.926	12.922	(0.991)	224203	2.45760	2.458
* 25 Chrysene-d12	240		13.043	13.042	(1.000)	158562	2.00000	
27 Chrysene	228		13.112	13.109	(1.005)	216417	2.50991	2.510
28 Benzo(b)fluoranthene	252		15.487	15.487	(0.927)	210233	2.52030	2.520
29 Benzo(k)fluoranthene	252		15.544	15.544	(0.930)	216689	2.62362	2.624
34 Benzo(e)pyrene	252		16.363	16.359	(0.979)	203390	2.53873	2.539
32 Benzo(a)pyrene	252		16.483	16.483	(0.987)	181709	2.41482	2.415
* 33 Perylene-d12	264		16.707	16.707	(1.000)	133765	2.00000	
35 Perylene	252		16.780	16.780	(1.004)	189407	2.44001	2.440
§ 36 Dibenzo(a,h)anthracene-d14	292		18.892	18.889	(1.131)	130686	2.17783	2.178
37 Indeno(1,2,3-cd)pyrene	276		18.974	18.974	(1.136)	153810	1.94033	1.940

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	
38 Dibenzo(a,h)anthracene	278	18.968	18.971	(1.135)	140516	2.10476	2.105
39 Benzo(g,h,i)perylene	276	19.765	19.765	(1.183)	139215	2.16692	2.167

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 25-SEP-2018
 Lab File ID: NT818092503.D Calibration Time: 15:38
 Lab Smp Id: SGH0048-SCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180925.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	142291	7.90
10 Acenaphthene-d10	72272	36136	144544	75112	3.93
15 Phenanthrene-d10	156058	78029	312116	149693	-4.08
25 Chrysene-d12	174389	87195	348778	158562	-9.08
33 Perylene-d12	150701	75351	301402	133765	-11.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.34	3.84	4.84	4.34	0.00
10 Acenaphthene-d10	6.59	6.09	7.09	6.59	0.00
15 Phenanthrene-d10	8.58	8.08	9.08	8.58	0.04
25 Chrysene-d12	13.04	12.54	13.54	13.04	0.00
33 Perylene-d12	16.71	16.21	17.21	16.71	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.

REVIEW SUMMARY FOR FILE - NT818092503.D

Lab ID: SGH0048-SCV2

nt8.i, 20180925.b\FSIMPNA180803.m, 25-SEP-2018 11:55

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt8.i, 20180925.b\FSIMPNA180803.m, SCV.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Calibration: BH00016

Laboratory ID: SGH0048-SCV1

Sequence: SGH0048

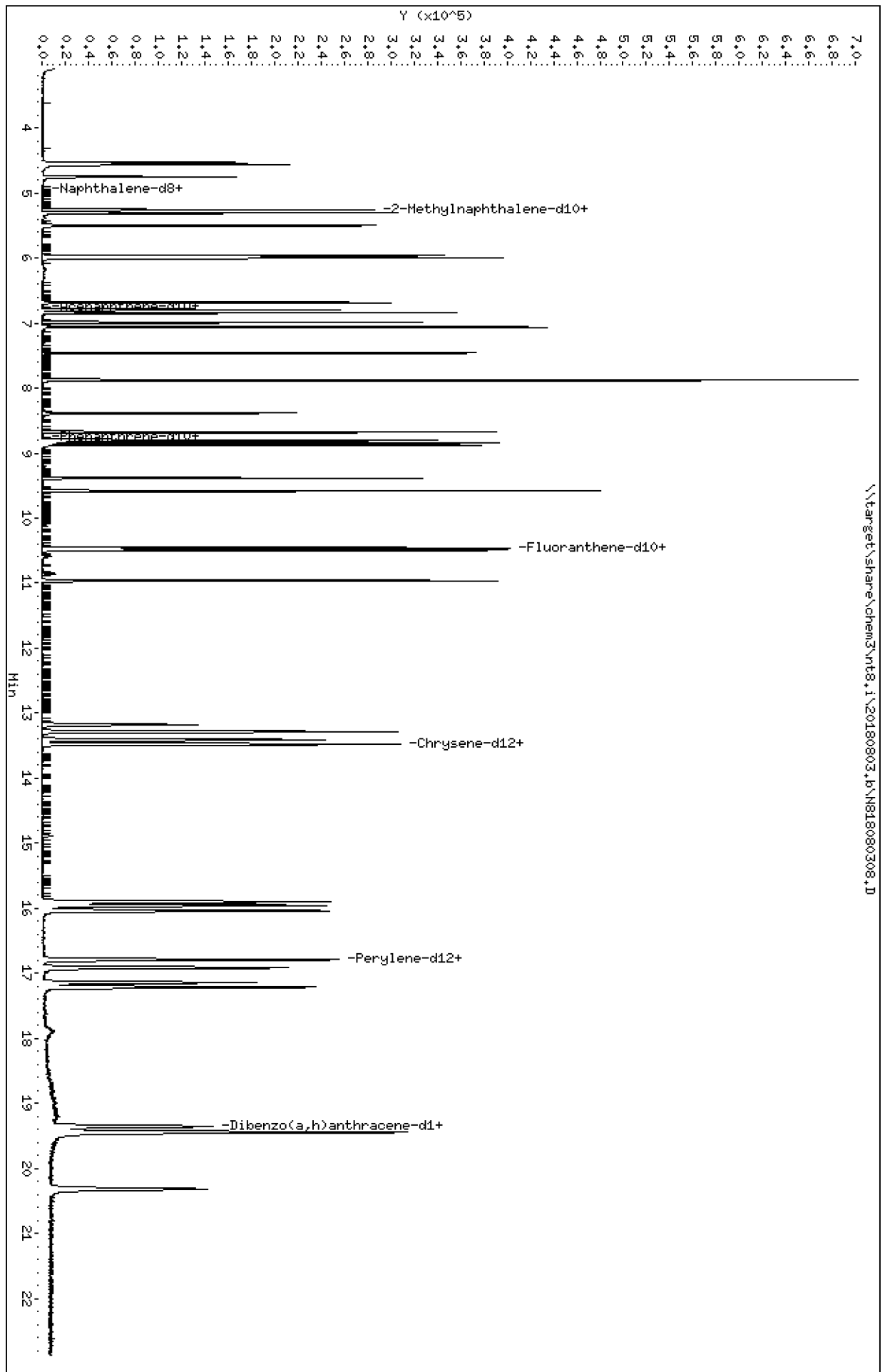
Standard ID: F010866

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	2.5000	2.37	-5.1	
2-Methylnaphthalene	2.5000	2.33	-6.8	
1-Methylnaphthalene	2.5000	2.31	-7.7	
Acenaphthylene	2.5000	2.29	-8.4	
Acenaphthene	2.5000	2.27	-9.4	
Fluorene	2.5000	2.26	-9.5	
Phenanthrene	2.5000	2.34	-6.6	
Anthracene	2.5000	2.38	-4.7	
Fluoranthene	2.5000	2.39	-4.4	
Pyrene	2.5000	2.32	-7.0	
Benzo(a)anthracene	2.5000	2.35	-6.2	
Chrysene	2.5000	2.36	-5.5	
Benzo(b)fluoranthene	2.5000	2.39	-4.5	
Benzo(k)fluoranthene	2.5000	2.37	-5.2	
Benzo(j)fluoranthene	2.5000	2.33	-6.7	
Benzo(a)pyrene	2.5000	2.33	-6.8	
Indeno(1,2,3-cd)pyrene	2.5000	2.33	-6.8	
Dibenzo(a,h)anthracene	2.5000	2.36	-5.6	
Benzo(g,h,i)perylene	2.5000	2.39	-4.5	
Benzofluoranthenes, Total	7.5000	7.04	-6.1	
2-Methylnaphthalene-d10	2.5000	2.21	-11.7	
Dibenzo[a,h]anthracene-d14	2.5000	2.27	-9.0	
Fluoranthene-d10	2.5000	2.27	-9.1	

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20180803.b\N818080308.D
Date: 03-AUG-2018 13:52
Client ID:
Sample Info: SCV180803,
Volume Injected (uL): 1.0
Column phase: Rxi-17s11

Instrument: nt8.1
Operator: JZ
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180803.b\N818080308.D
 Lab Smp Id: SGH0048-SCV1
 Inj Date : 03-AUG-2018 13:52
 Operator : JZ Inst ID: nt8.i
 Smp Info : SCV180803,
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Meth Date : 03-Aug-2018 15:34 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/L)
* 1 Naphthalene-d8	136		4.531	4.528	(1.000)	122601	2.00000	
2 Naphthalene	128		4.560	4.557	(1.006)	158550	2.37282	2.373
\$ 3 2-Methylnaphthalene-d10	152		5.259	5.255	(1.160)	95727	2.20783	2.208
4 2-Methylnaphthalene	141		5.303	5.300	(1.170)	87345	2.33117	2.331
5 1-methylnaphthalene	141		5.499	5.496	(1.214)	88970	2.30636	2.306
6 2-Chloronaphthalene	162		5.983	5.980	(1.320)	105036	2.61318	2.613
7 Biphenyl	154		5.964	5.961	(0.878)	133727	2.27880	2.279
8 2,6-Dimethylnaphthalene	156		5.999	5.995	(0.883)	99236	2.32690	2.327
9 Acenaphthylene	152		6.685	6.678	(0.984)	162783	2.29031	2.290
* 10 Acenaphthene-d10	164		6.795	6.792	(1.000)	67009	2.00000	
11 Acenaphthene	153		6.843	6.840	(1.007)	108554	2.26576	2.266
12 Dibenzofuran	168		6.988	6.985	(1.028)	152515	2.29796	2.298
13 1,6,7-Trimethylnaphthalene	170		7.061	7.058	(1.039)	100325	2.33136	2.331
14 Fluorene	166		7.459	7.456	(1.098)	124348	2.26211	2.262
18 Dibenzothiophene	184		8.677	8.674	(0.986)	177110	2.38066	2.381
* 15 Phenanthrene-d10	188		8.800	8.797	(1.000)	144893	2.00000	
16 Phenanthrene	178		8.835	8.832	(1.004)	182507	2.33559	2.336
17 Anthracene	178		8.873	8.870	(1.008)	182242	2.38208	2.382
19 Carbazole	167		9.385	9.382	(1.066)	160454	2.31757	2.318
20 1-Methylphenanthrene	192		9.581	9.578	(1.089)	148080	2.37753	2.378
22 Fluoranthene	202		10.492	10.488	(1.192)	217069	2.38926	2.389
\$ 21 Fluoranthene-d10	212		10.457	10.454	(1.188)	207961	2.27267	2.273

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Pyrene	202	10.963	10.956	(0.818)	222564	2.32431	2.324
24 Benzo(a)anthracene	228	13.284	13.277	(0.991)	217219	2.34601	2.346
* 25 Chrysene-d12	240	13.410	13.401	(1.000)	160930	2.00000	
27 Chrysene	228	13.480	13.467	(1.005)	206839	2.36353	2.364
28 Benzo(b)fluoranthene	252	15.899	15.892	(0.927)	208515	2.38870	2.389
29 Benzo(k)fluoranthene	252	15.959	15.952	(0.931)	204747	2.36895	2.369
30 Benzo(j)fluoranthene	252	16.038	16.031	(0.935)	191015	2.33156	2.332
31 Total Benzofluoranthenes	252	15.959	15.952	(0.931)	596397	7.03933	7.039 (M)
34 Benzo(e)pyrene	252	16.790	16.784	(0.979)	200620	2.39296	2.393
32 Benzo(a)pyrene	252	16.914	16.907	(0.987)	183441	2.32959	2.330
* 33 Perylene-d12	264	17.144	17.135	(1.000)	139981	2.00000	
35 Perylene	252	17.214	17.208	(1.004)	190334	2.34308	2.343
\$ 36 Dibenzo(a,h)anthracene-d14	292	19.355	19.345	(1.129)	142840	2.27467	2.275
37 Indeno(1,2,3-cd)pyrene	276	19.453	19.443	(1.135)	193187	2.32886	2.329
38 Dibenzo(a,h)anthracene	278	19.443	19.437	(1.134)	164856	2.35969	2.360
39 Benzo(g,h,i)perylene	276	20.316	20.313	(1.185)	160807	2.38671	2.387

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 03-AUG-2018
 Lab File ID: N818080308.D Calibration Time: 12:22
 Lab Smp Id: SGH0048-SCV1
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180803.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	122601	-7.03
10 Acenaphthene-d10	72272	36136	144544	67009	-7.28
15 Phenanthrene-d10	156058	78029	312116	144893	-7.15
25 Chrysene-d12	174389	87195	348778	160930	-7.72
33 Perylene-d12	150701	75351	301402	139981	-7.11

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.53	4.03	5.03	4.53	0.07
10 Acenaphthene-d10	6.79	6.29	7.29	6.80	0.05
15 Phenanthrene-d10	8.80	8.30	9.30	8.80	0.04
25 Chrysene-d12	13.40	12.90	13.90	13.41	0.07
33 Perylene-d12	17.14	16.64	17.64	17.14	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.

REVIEW SUMMARY FOR FILE - N818080308.D

Lab ID: SGH0048-SCV1

nt8.i, 20180803.b\FSIMPNA180803.m, 03-AUG-2018 13:52

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt8.i, 20180803.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

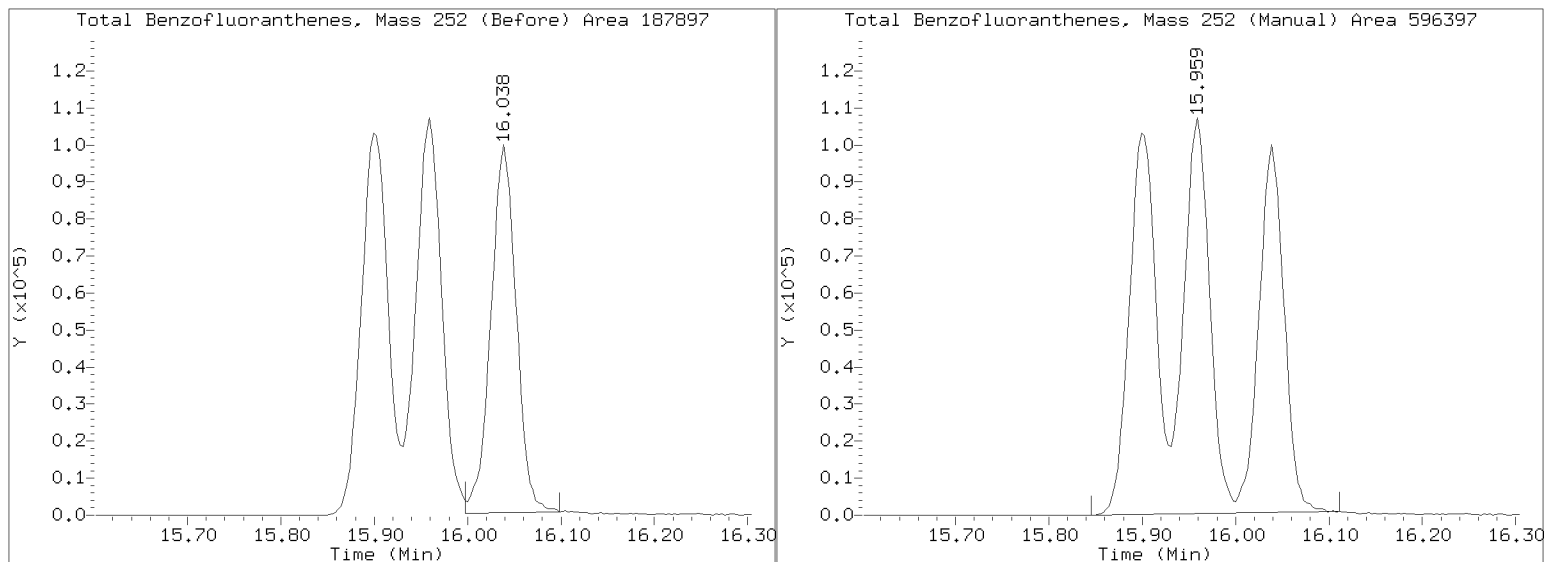
Quant Ion Manual Peak Adjustment Report

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Injection Date: 03-AUG-2018 13:52

Lab ID:SGH0048-SCV1 Client ID:

Report Date: 08/03/2018 15:51





SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Calibration: BH00016

Laboratory ID: SGH0048-SCV2

Sequence: SGH0048

Standard ID: G008697

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	2.5000	2.41	-3.5	
2-Methylnaphthalene	2.5000	2.43	-2.6	
1-Methylnaphthalene	2.5000	2.40	-4.2	
Acenaphthylene	2.5000	2.40	-4.2	
Acenaphthene	2.5000	2.33	-6.7	
Fluorene	2.5000	2.28	-9.0	
Phenanthrene	2.5000	2.45	-2.1	
Anthracene	2.5000	2.57	2.9	
Fluoranthene	2.5000	2.42	-3.4	
Pyrene	2.5000	2.51	0.4	
Benzo(a)anthracene	2.5000	2.46	-1.7	
Chrysene	2.5000	2.51	0.4	
Benzo(b)fluoranthene	2.5000	2.52	0.8	
Benzo(k)fluoranthene	2.5000	2.62	4.9	
Benzo(a)pyrene	2.5000	2.41	-3.4	
Indeno(1,2,3-cd)pyrene	2.5000	1.94	-22.4	
Dibenzo(a,h)anthracene	2.5000	2.10	-15.8	
Benzo(g,h,i)perylene	2.5000	2.17	-13.3	
2-Methylnaphthalene-d10	2.5000	2.49	-0.6	
Dibenzo[a,h]anthracene-d14	2.5000	2.18	-12.9	
Fluoranthene-d10	2.5000	2.44	-2.6	

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20180925.b\NT818092503.D

Date: 25-SEP-2018 11:55

Client ID:

Sample Info: SGH0048-SCV2

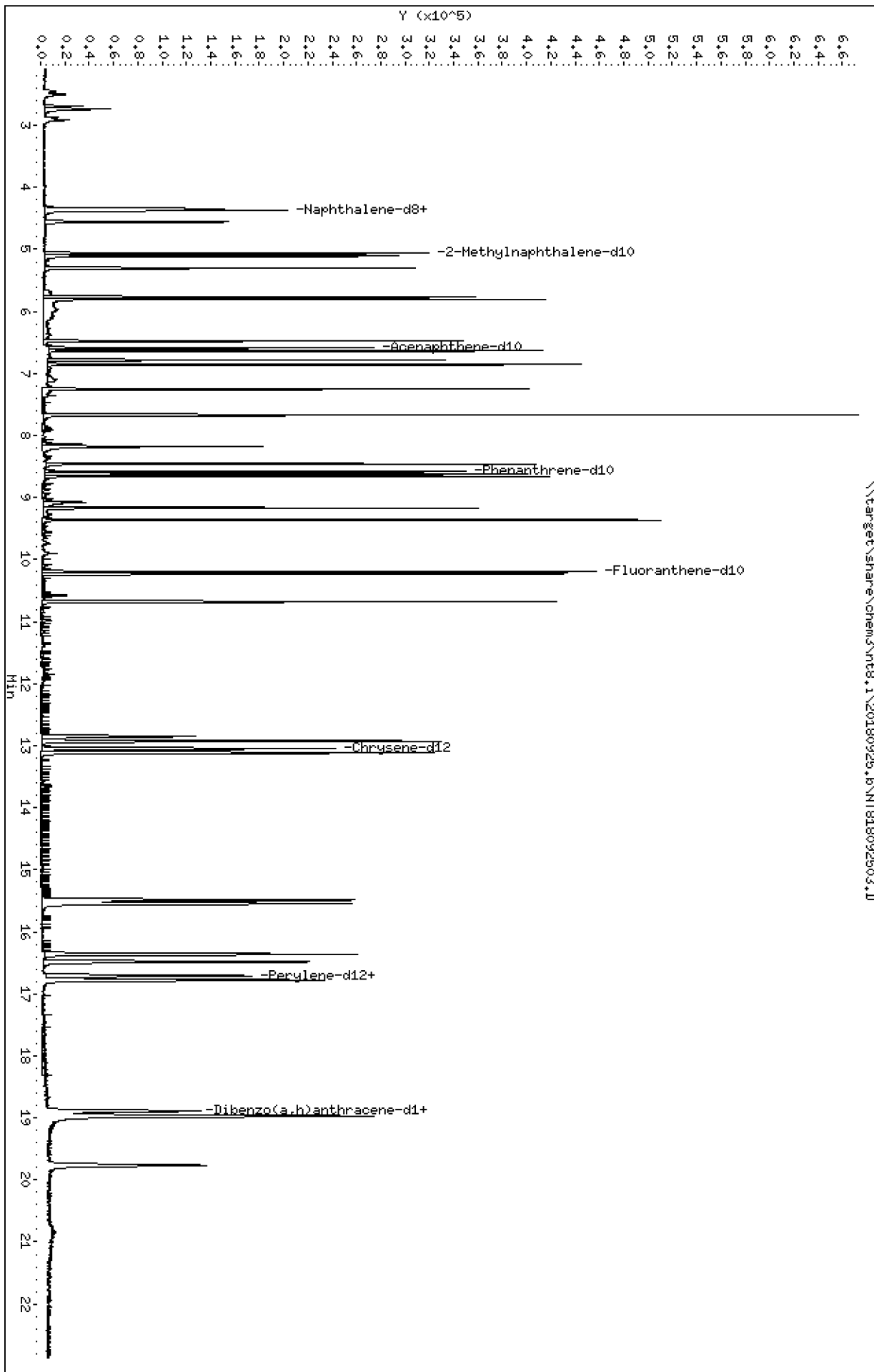
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



\\target\share\chem3\nt8.1\20180925.b\NT818092503.D

Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

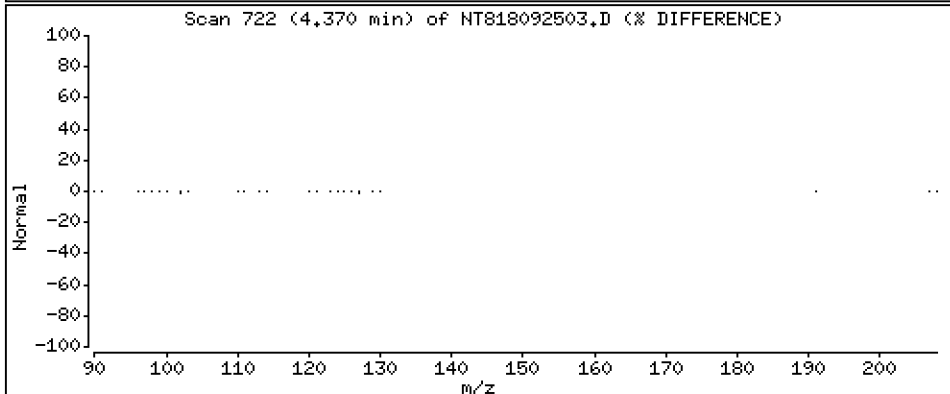
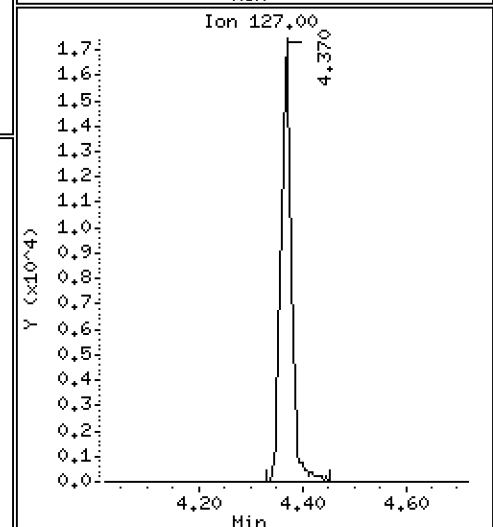
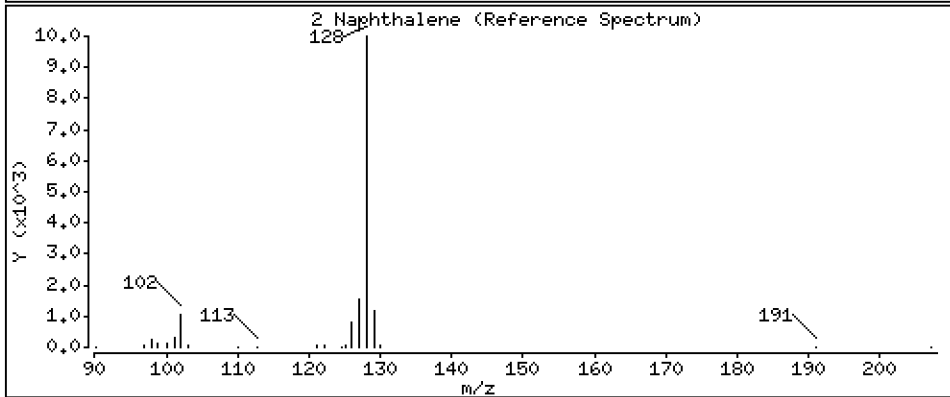
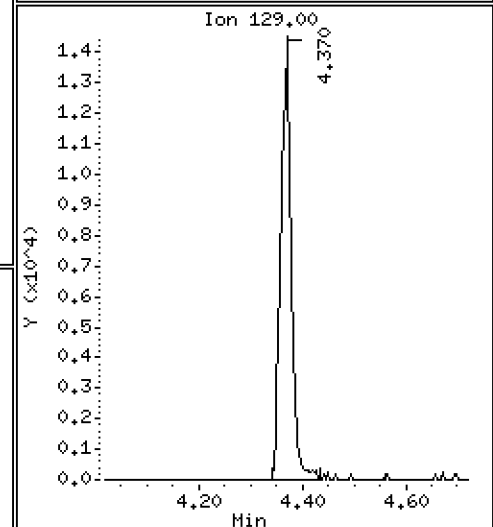
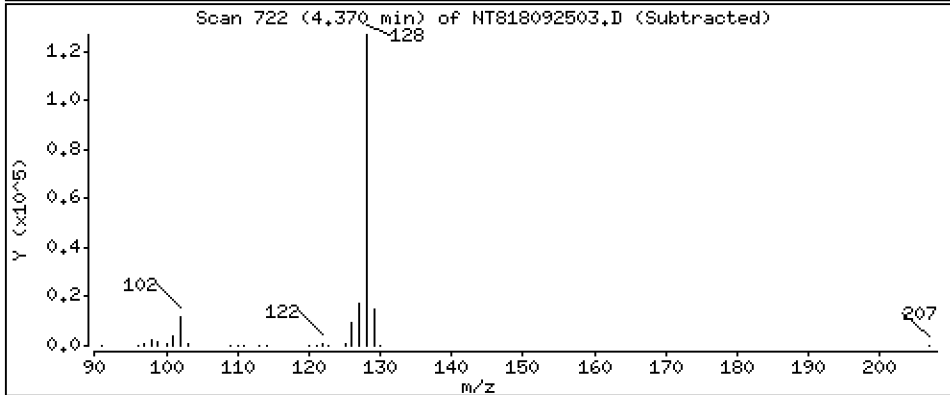
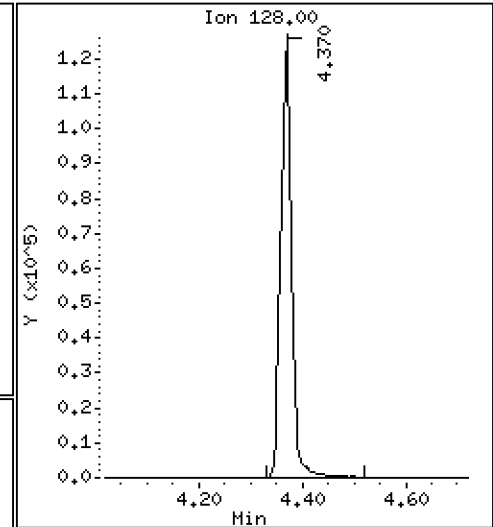
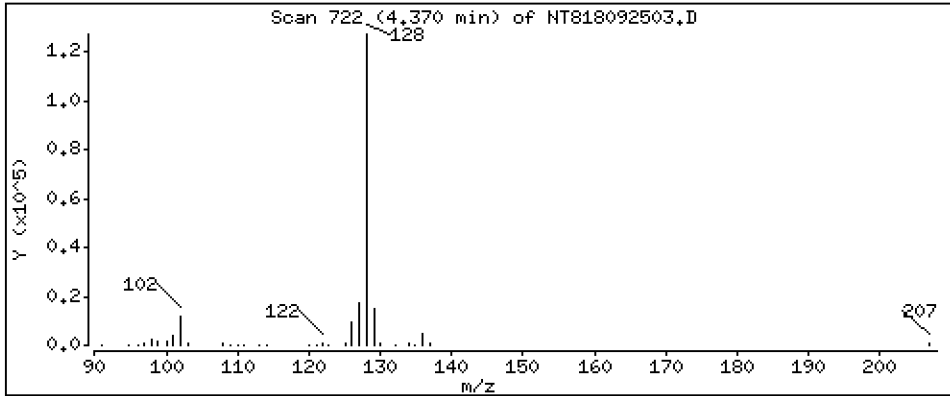
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

2 Naphthalene

Concentration: 2,411 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

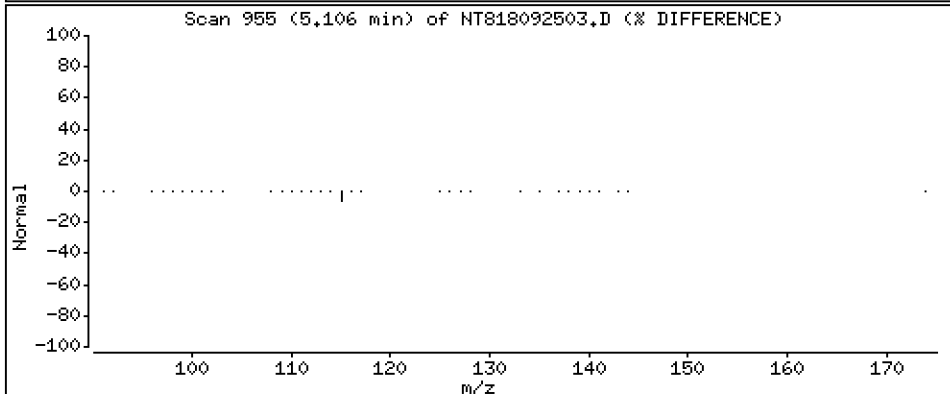
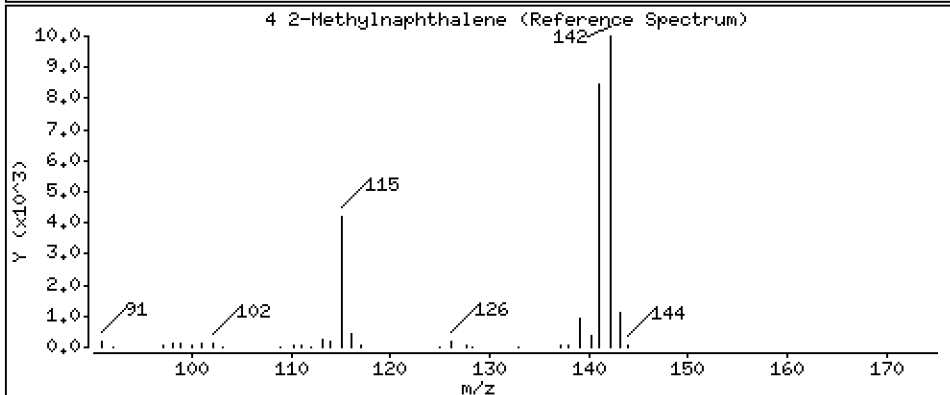
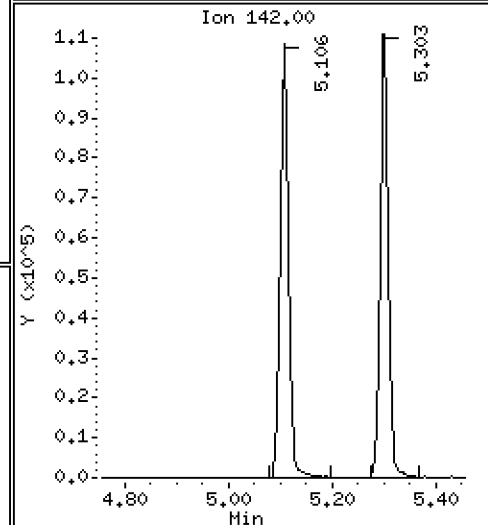
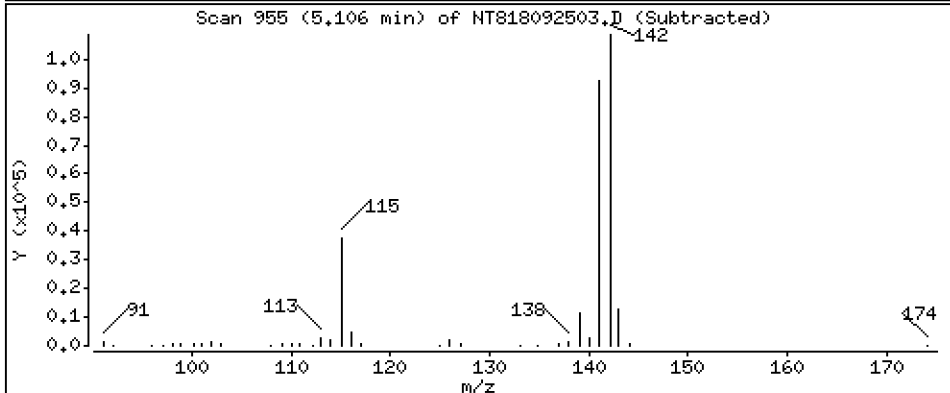
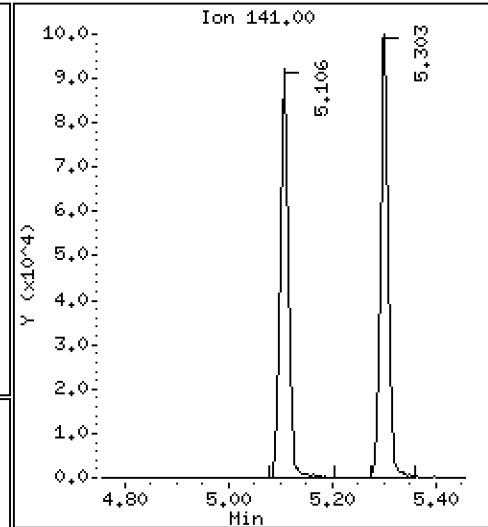
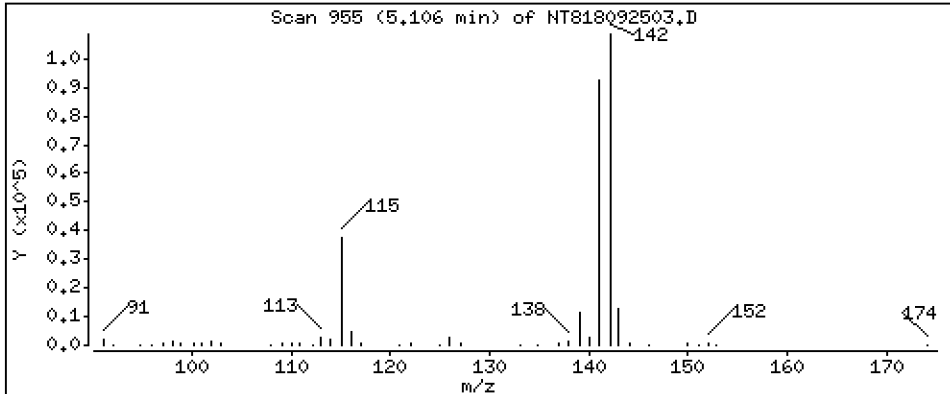
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

4-Methylnaphthalene

Concentration: 2.435 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

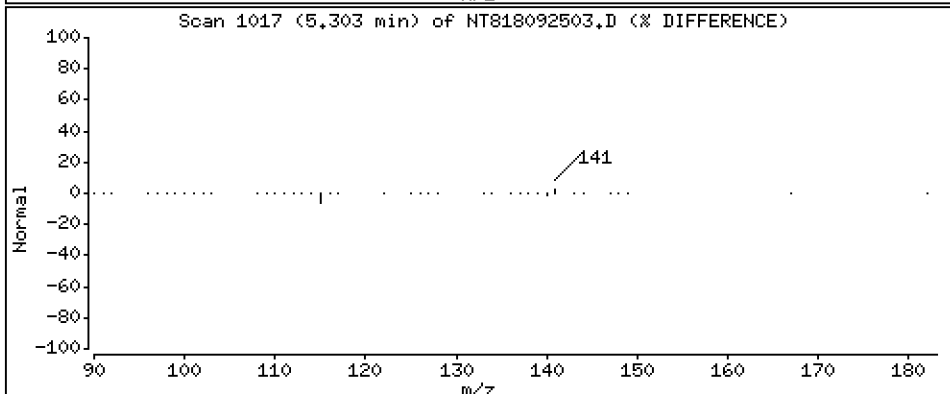
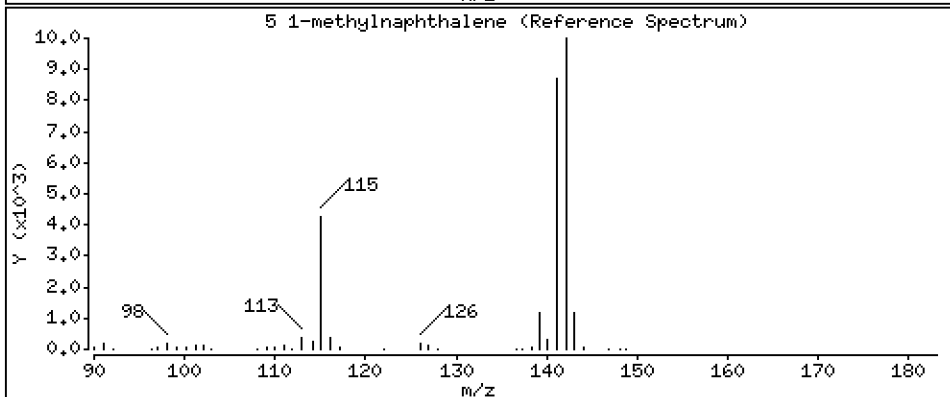
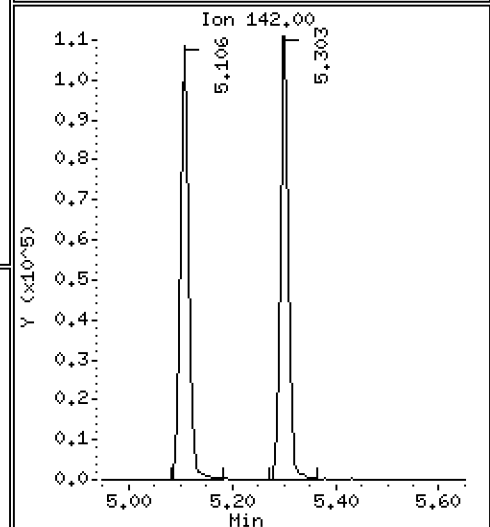
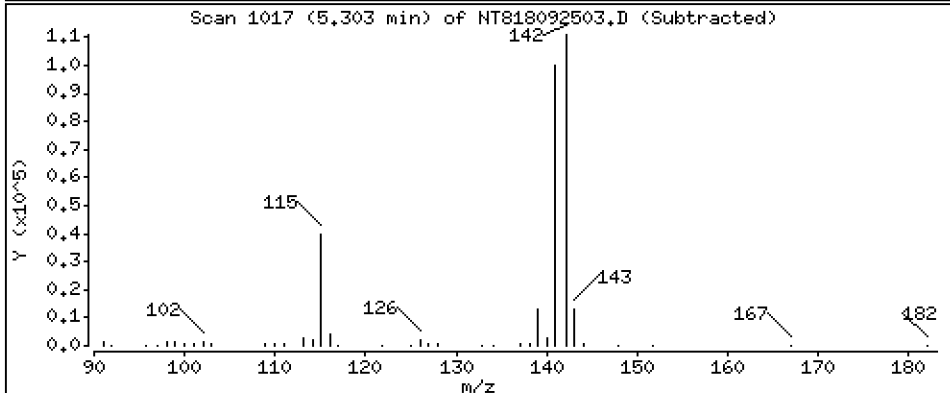
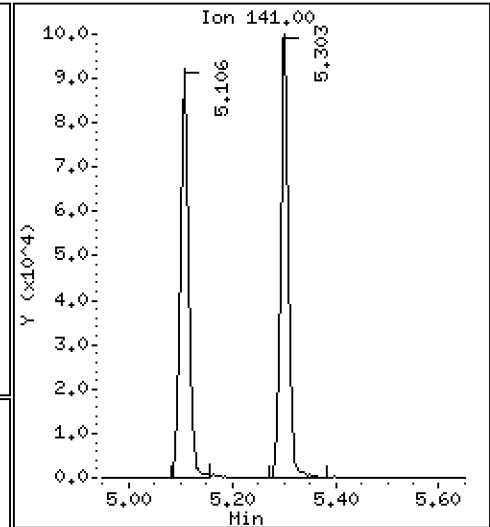
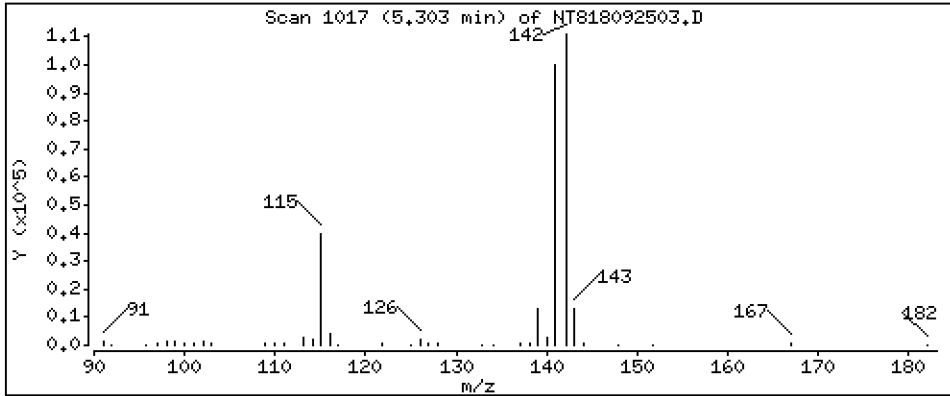
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

5 1-methylnaphthalene

Concentration: 2,395 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

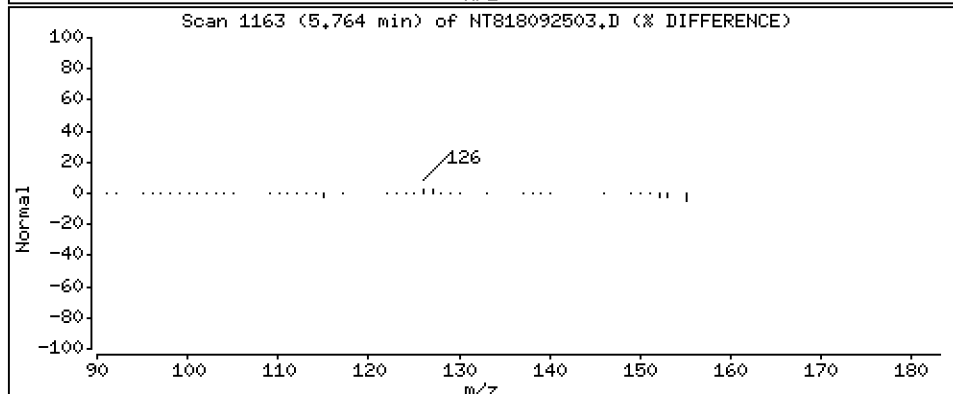
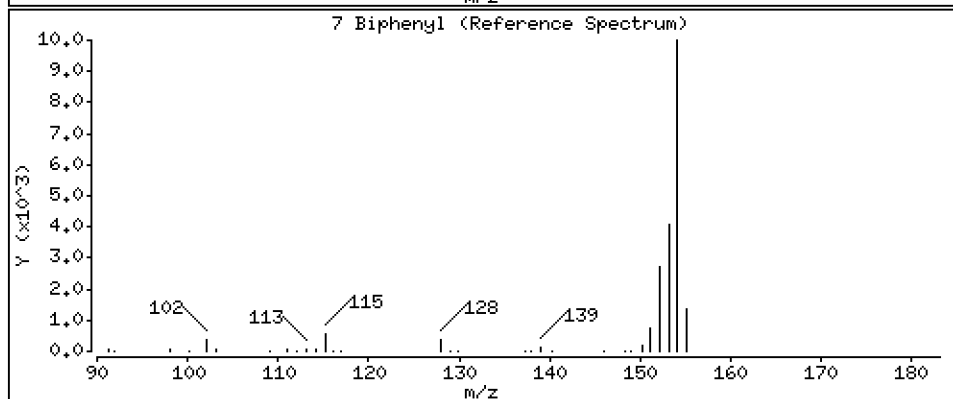
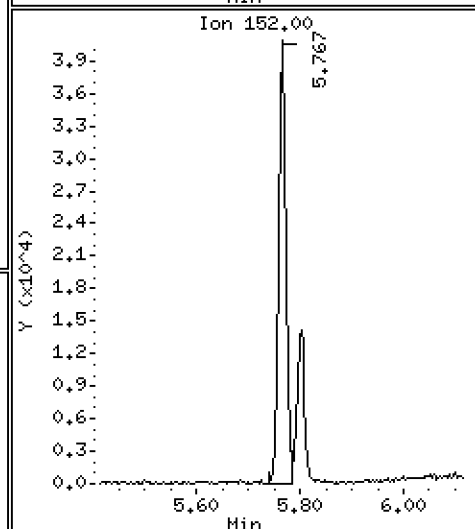
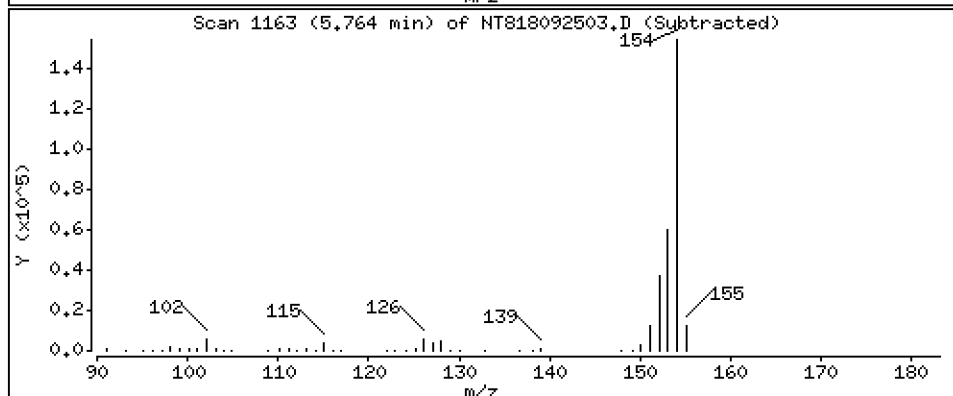
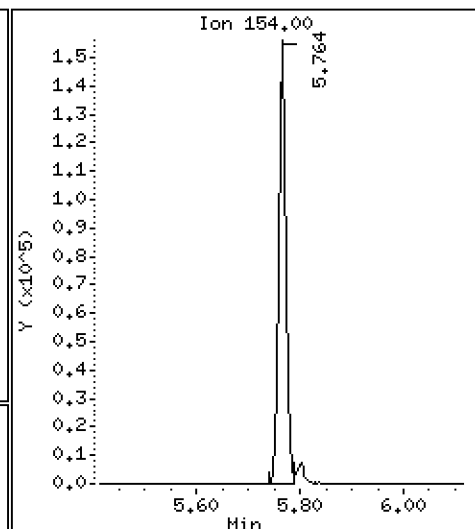
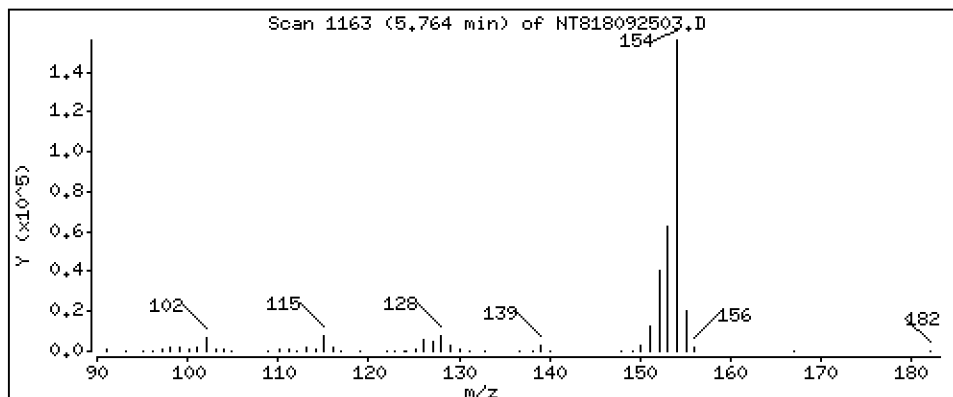
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25

7 Biphenyl

Concentration: 2,370 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

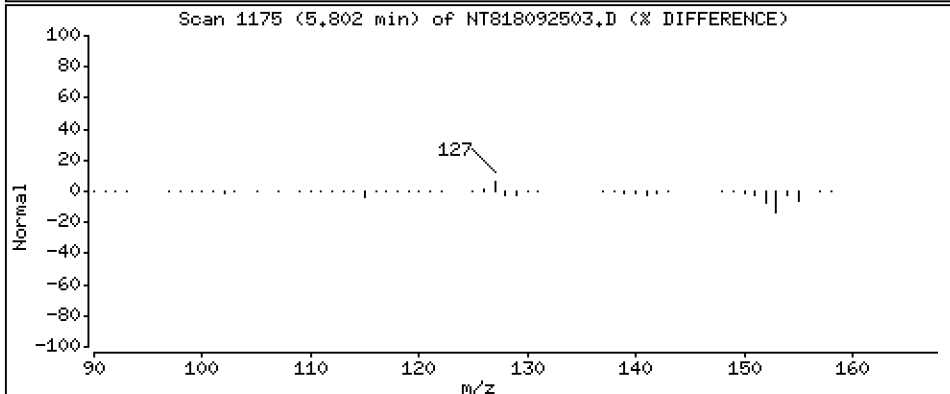
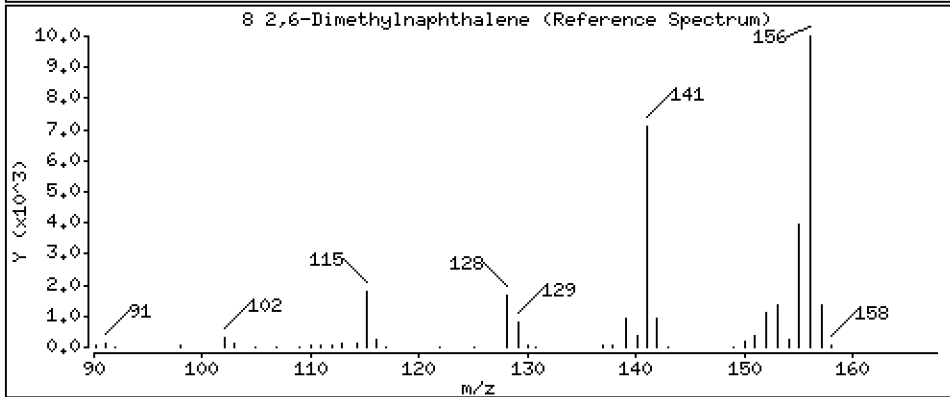
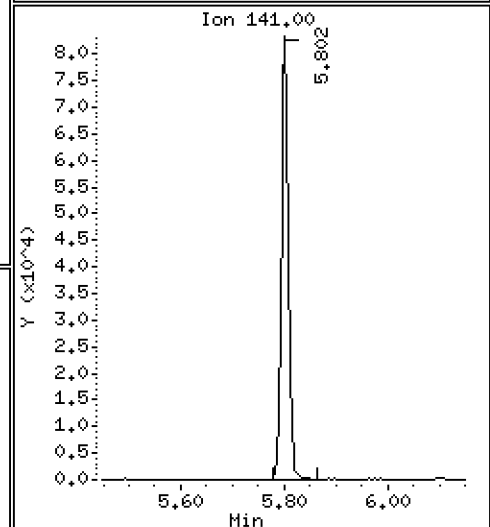
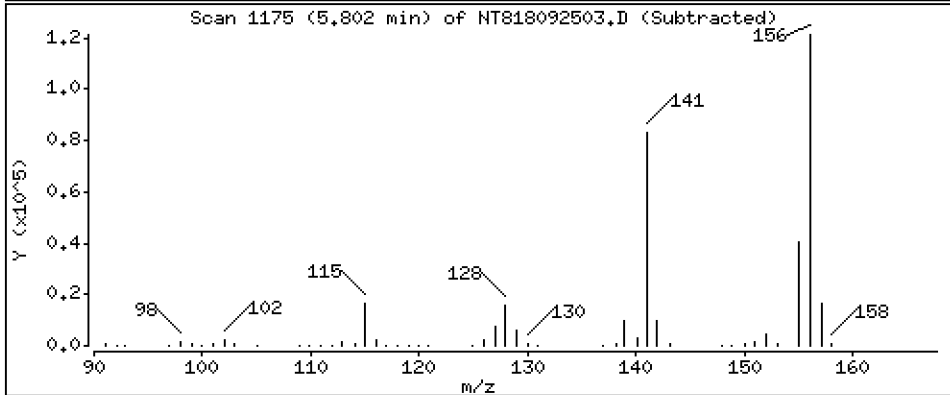
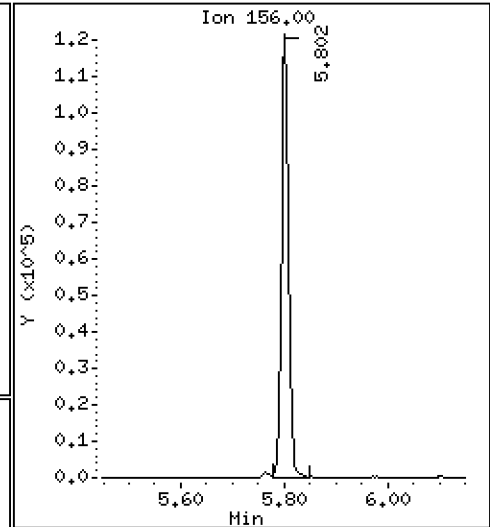
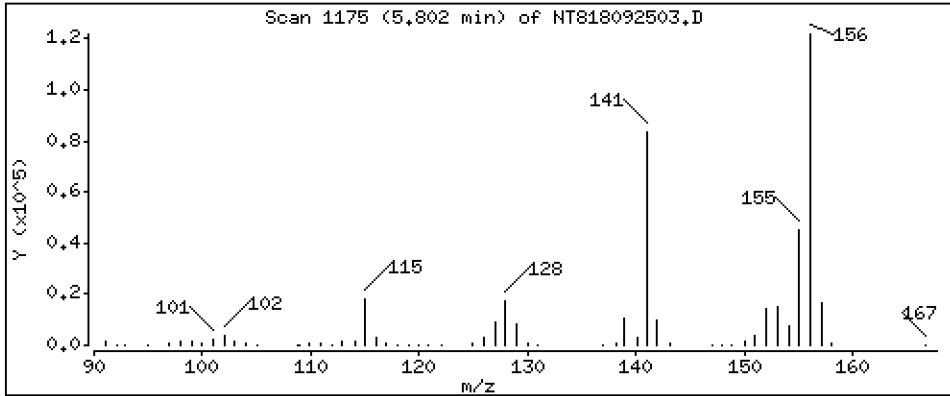
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

8 2,6-Dimethylnaphthalene

Concentration: 2,422 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

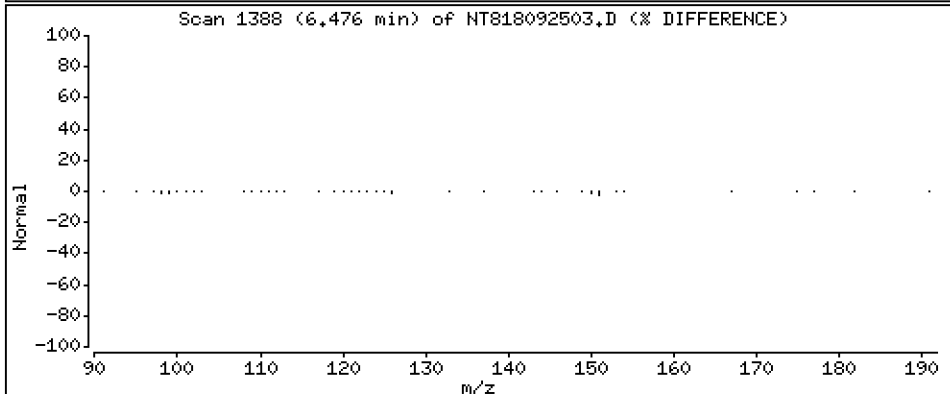
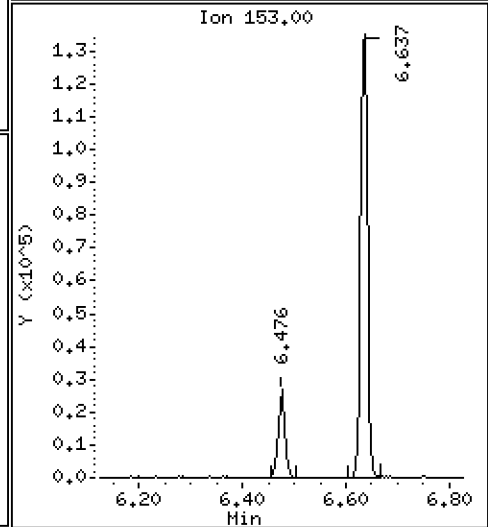
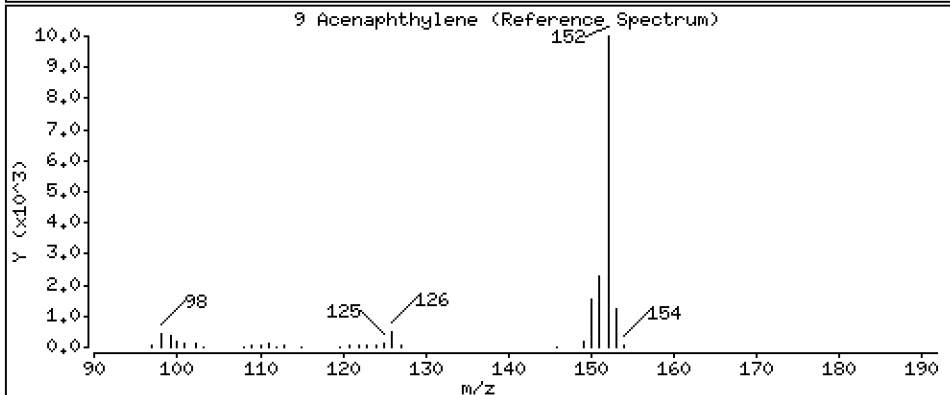
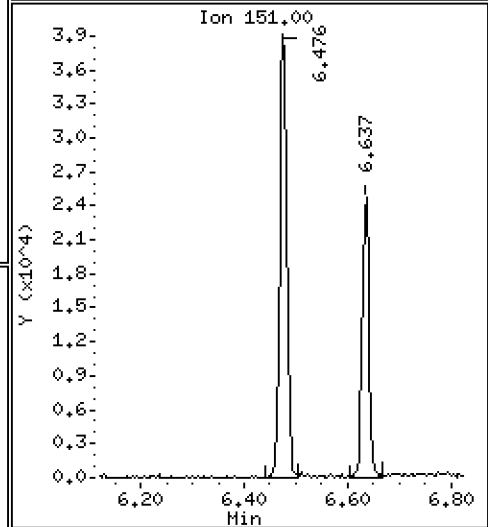
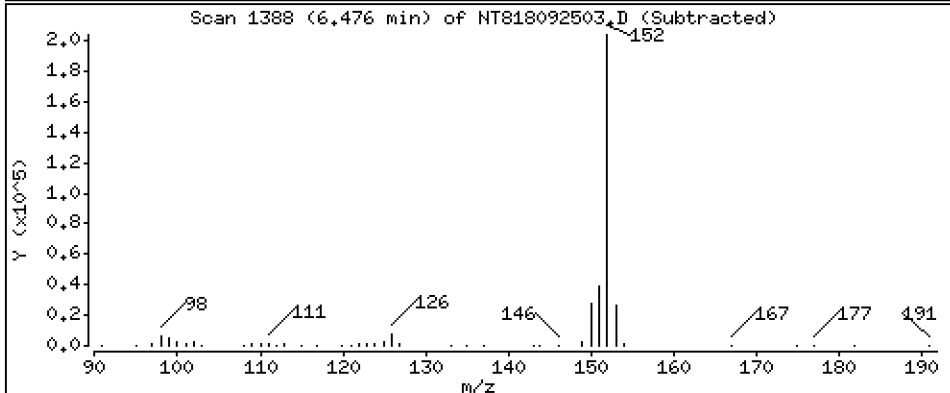
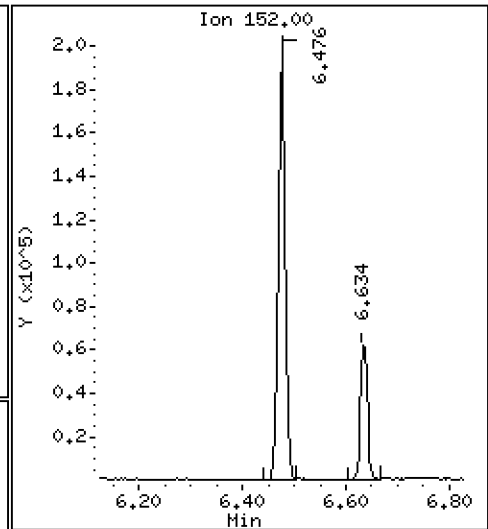
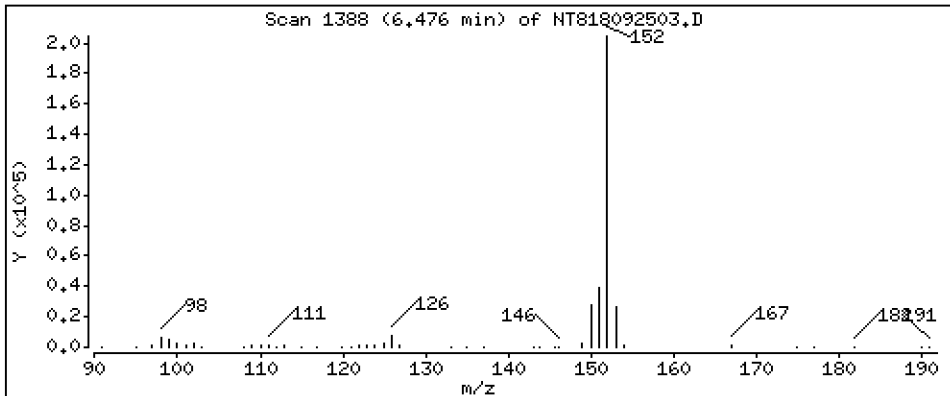
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

9 Acenaphthylene

Concentration: 2,396 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

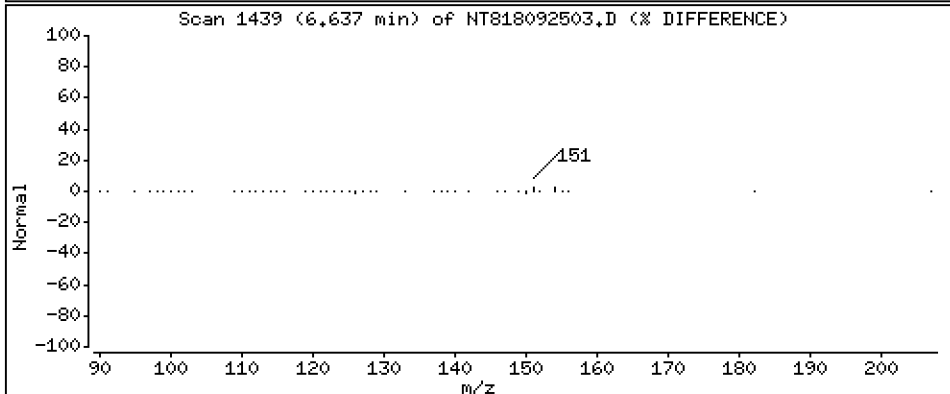
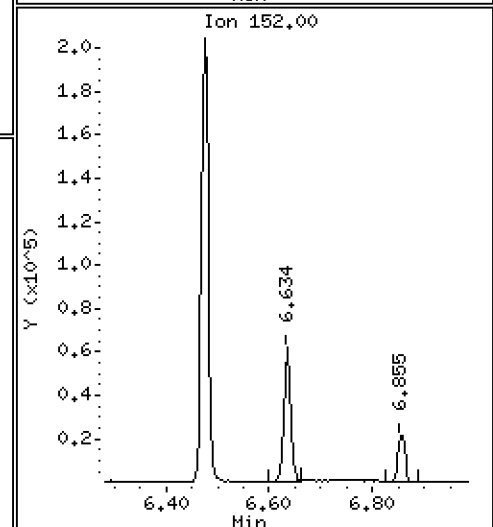
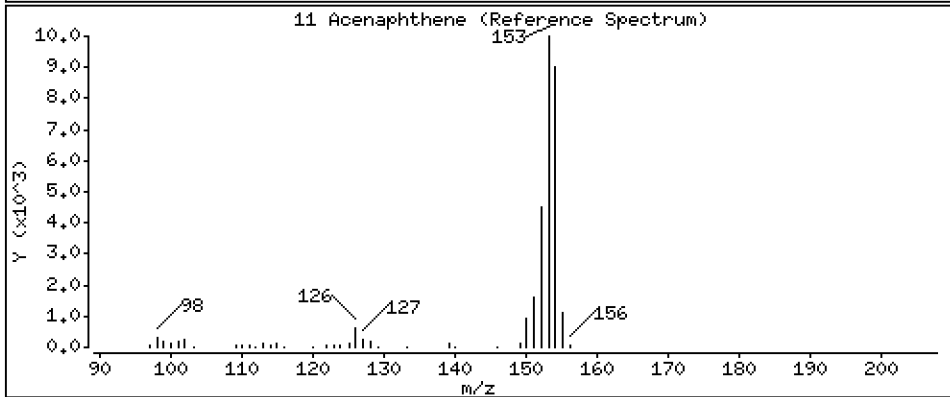
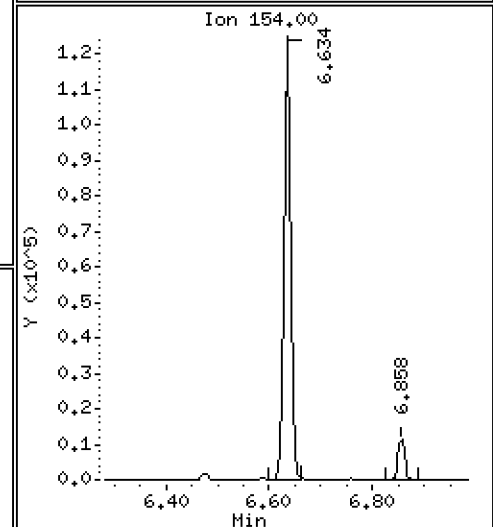
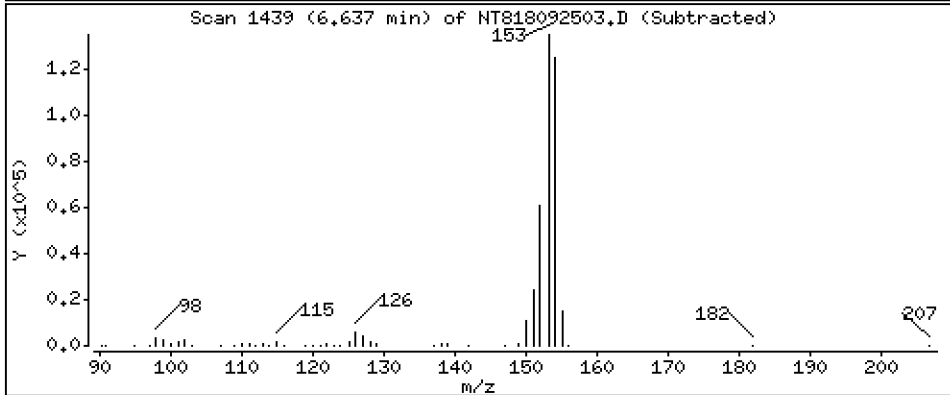
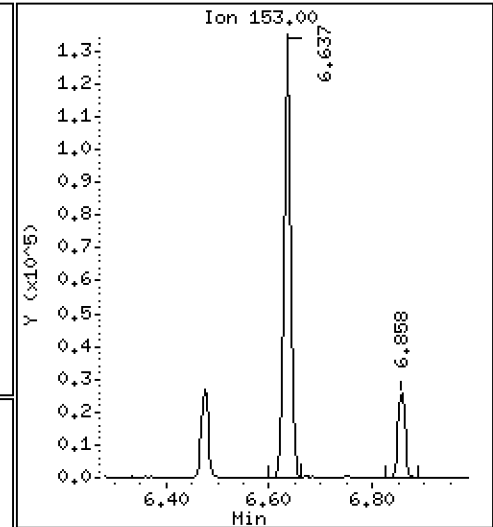
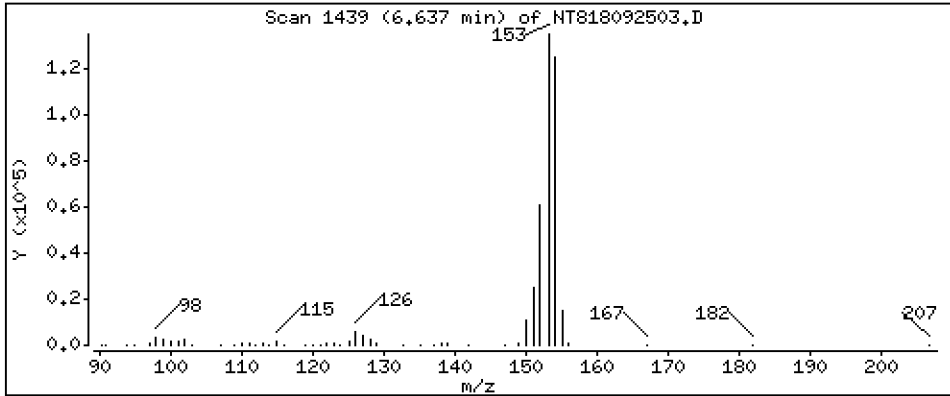
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

Concentration: 2,334 ug/mL

11 Acenaphthene



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

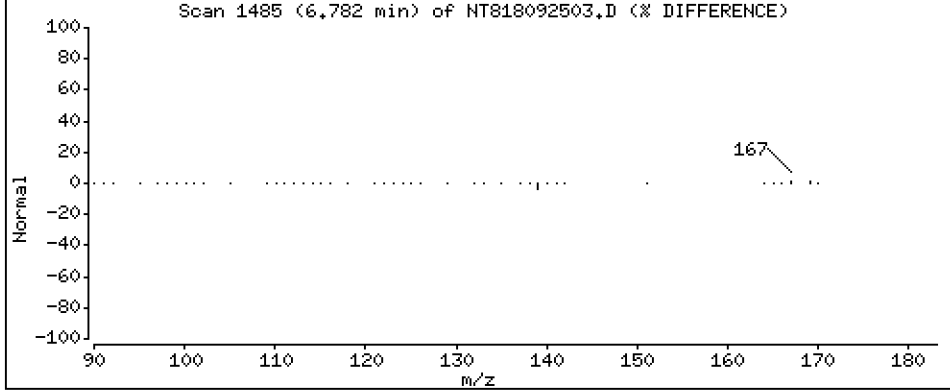
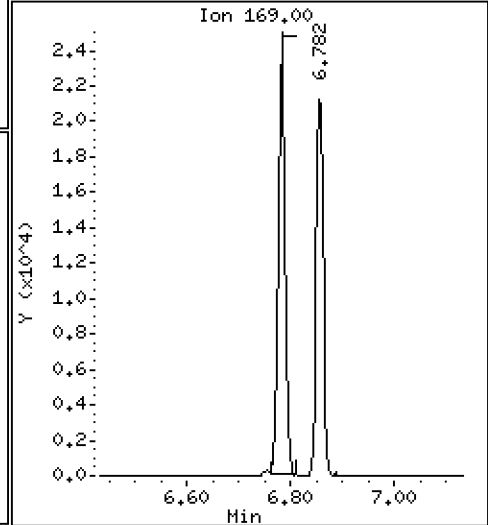
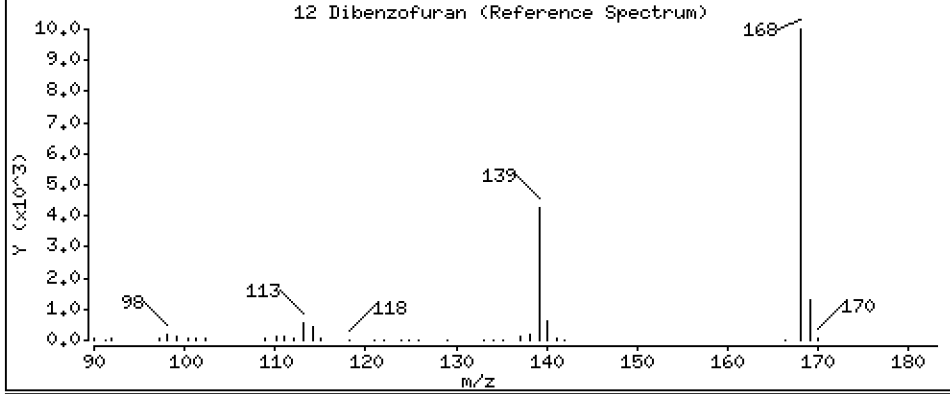
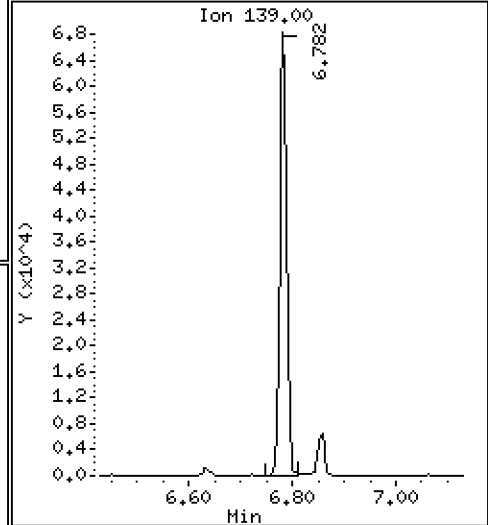
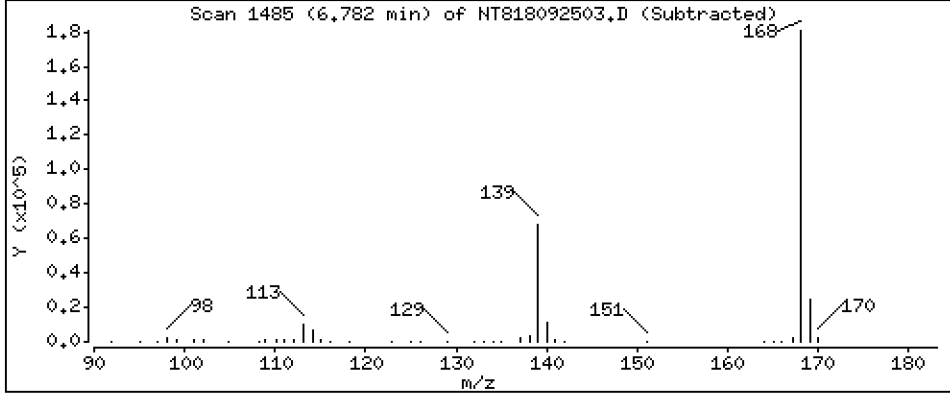
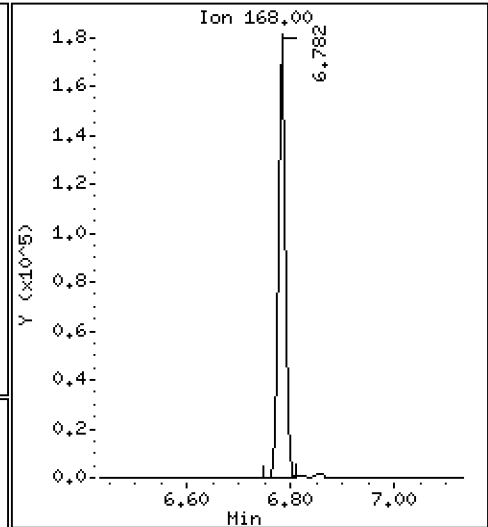
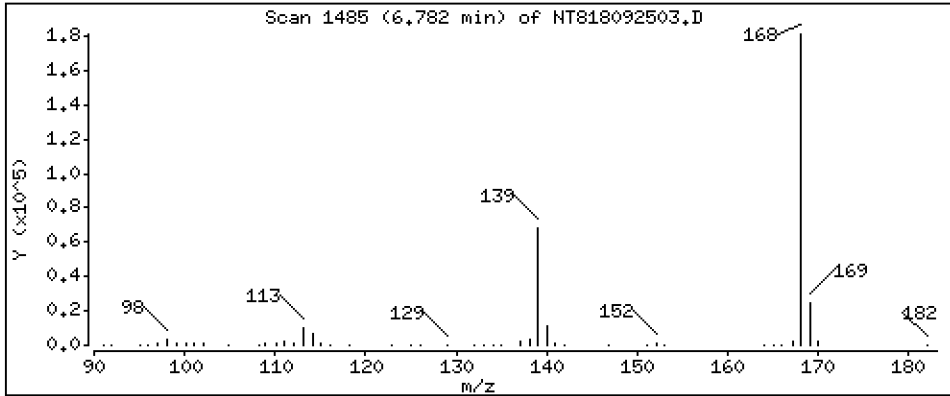
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

12 Dibenzofuran

Concentration: 2,329 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

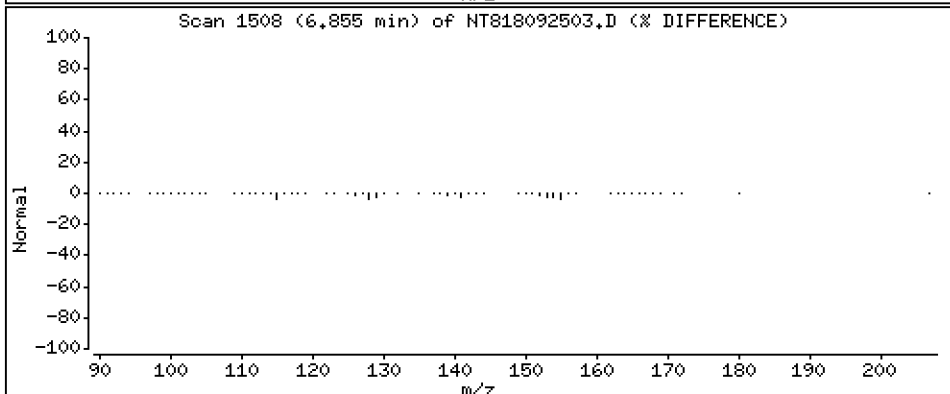
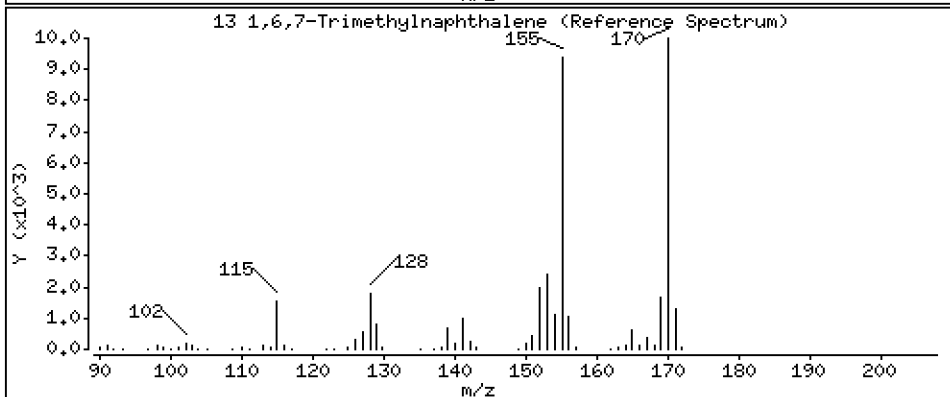
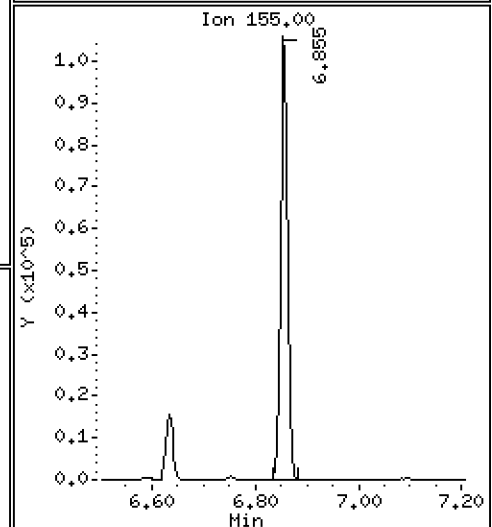
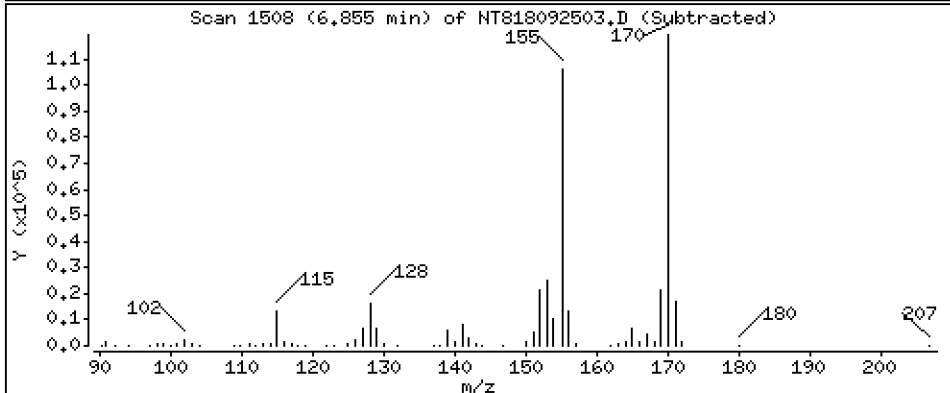
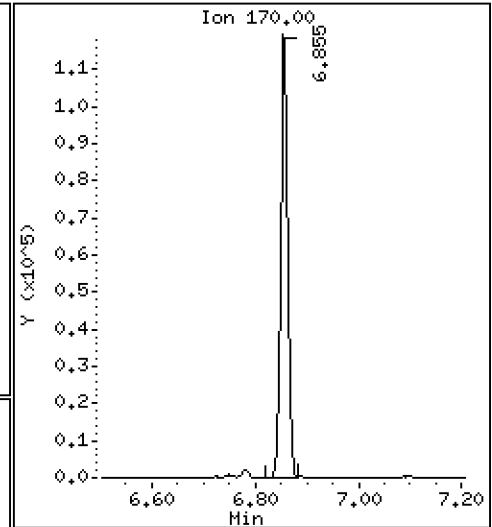
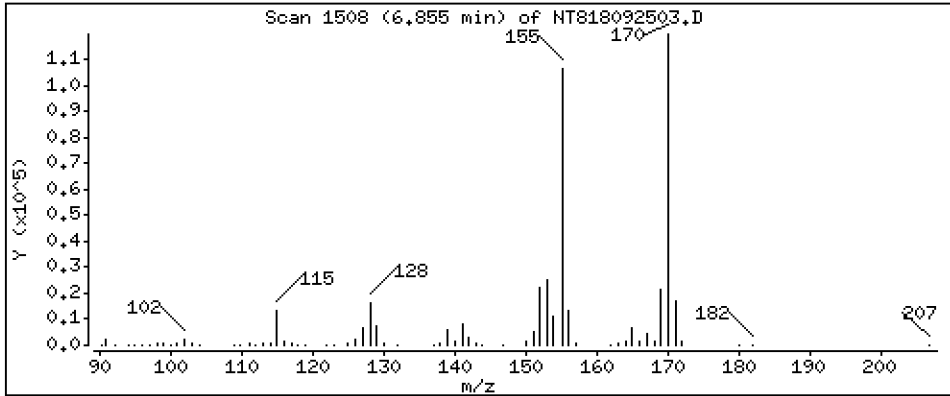
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

13 1,6,7-Trimethylnaphthalene

Concentration: 2,359 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

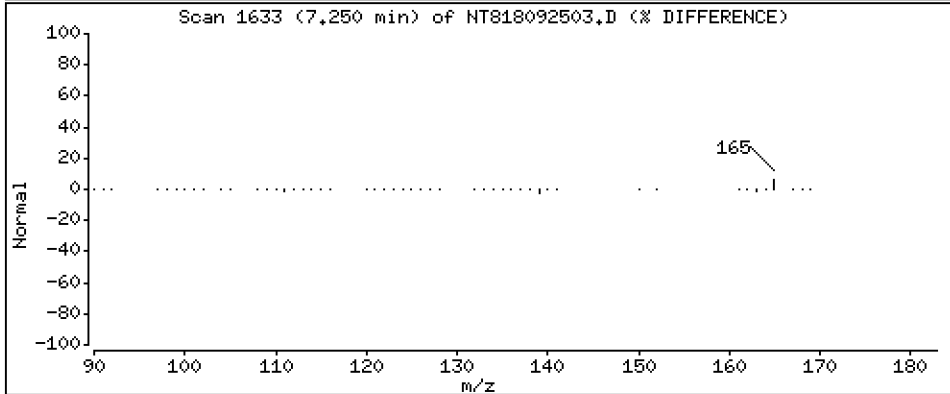
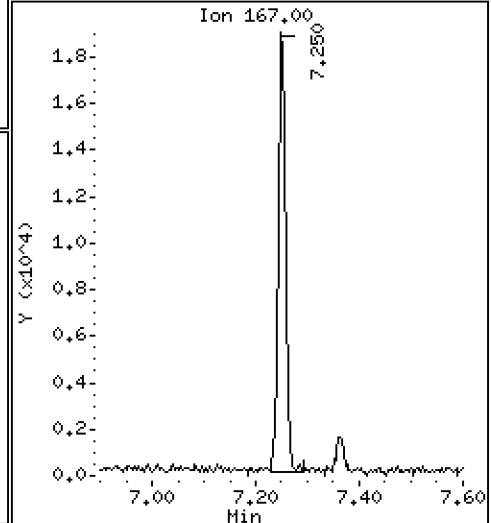
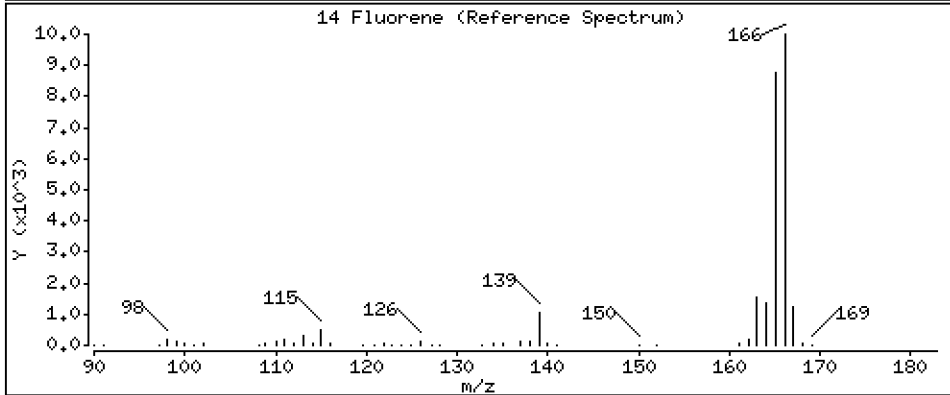
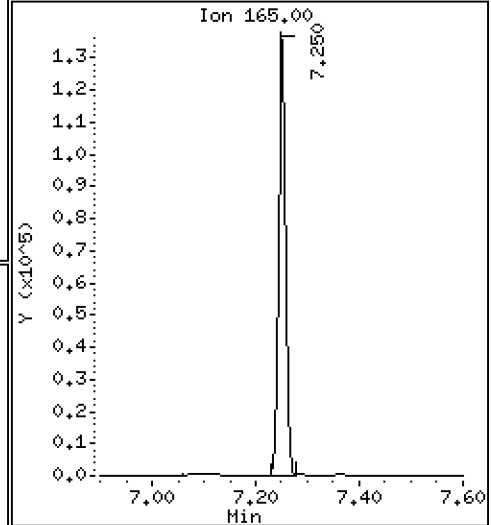
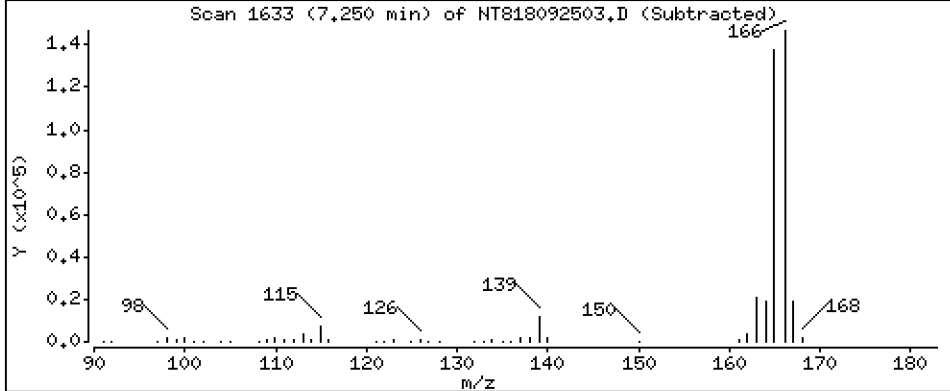
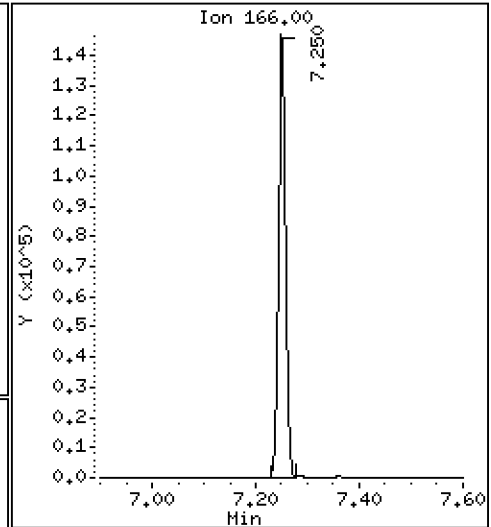
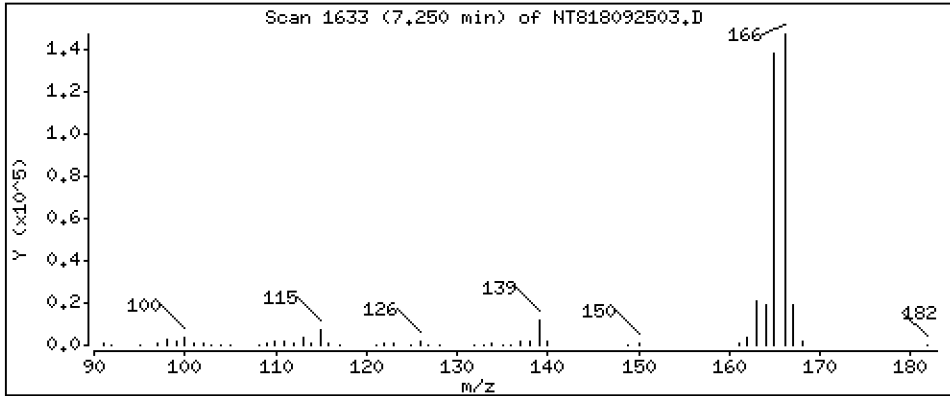
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

14 Fluorene

Concentration: 2,275 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

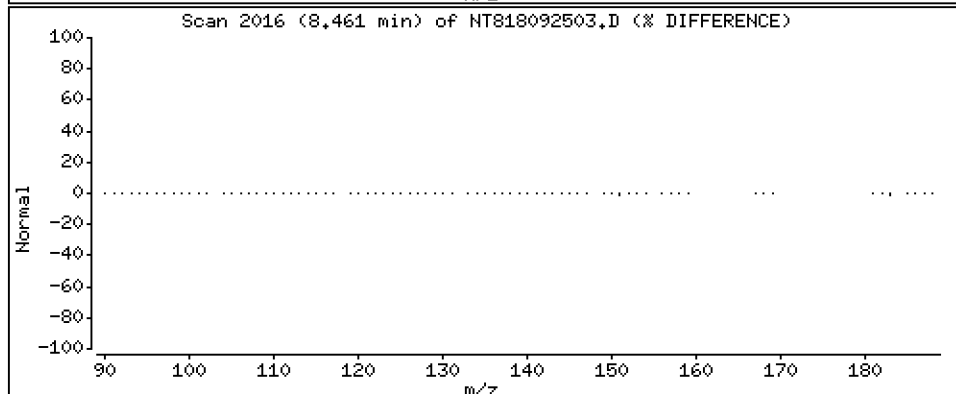
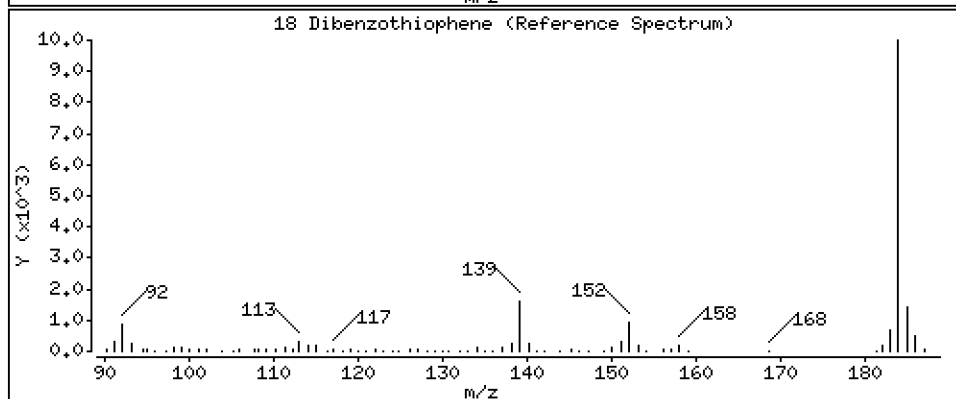
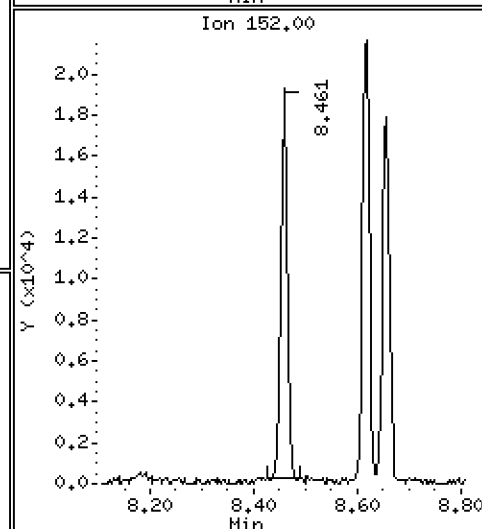
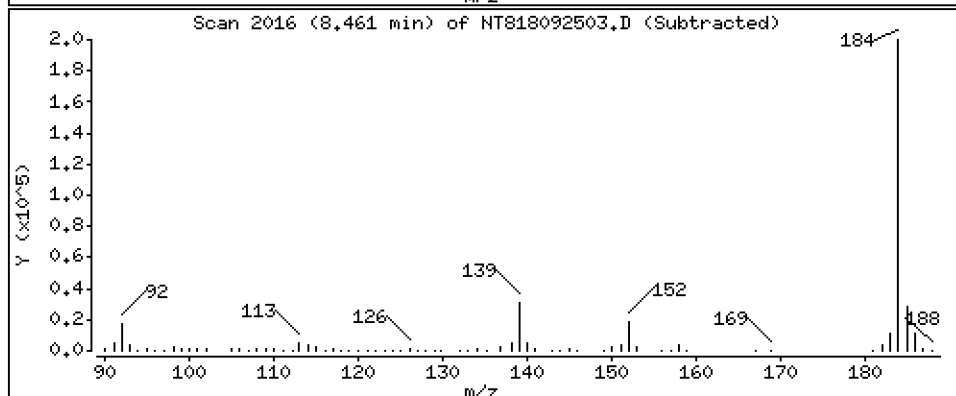
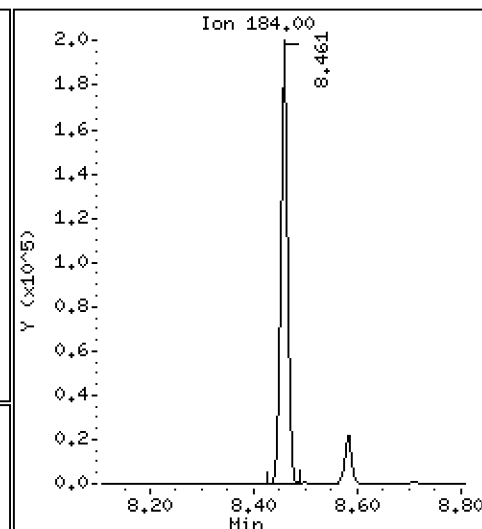
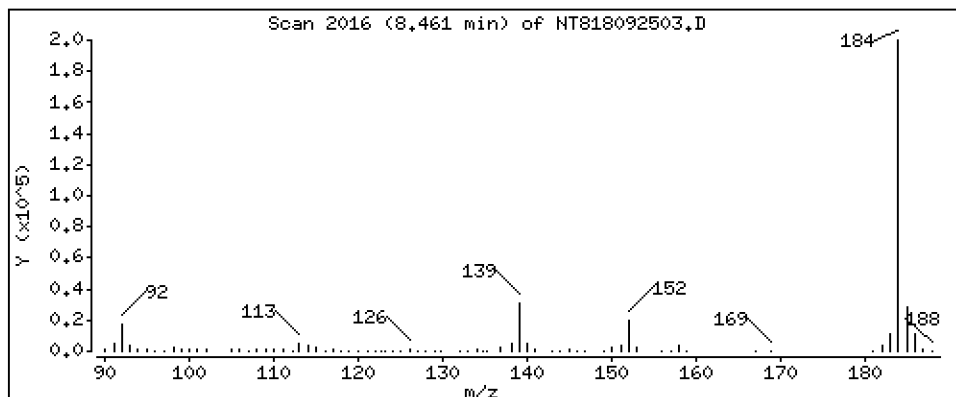
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

18 Dibenzothiophene

Concentration: 2,470 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

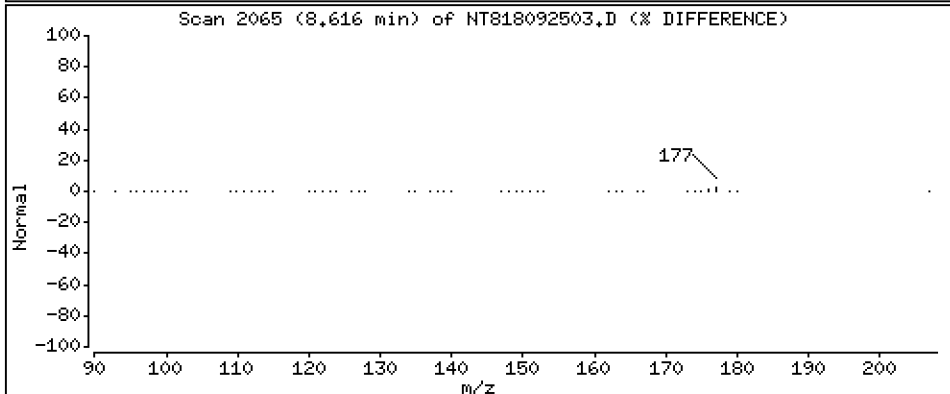
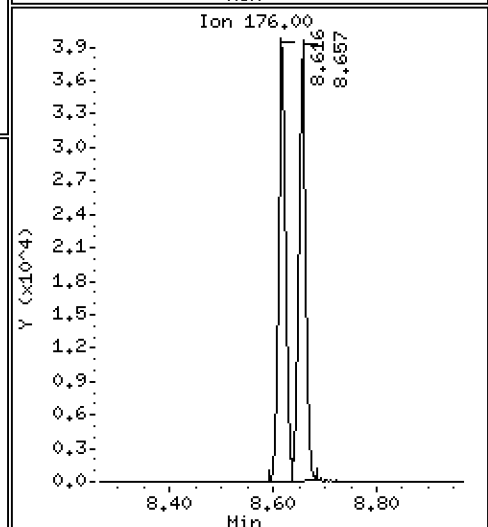
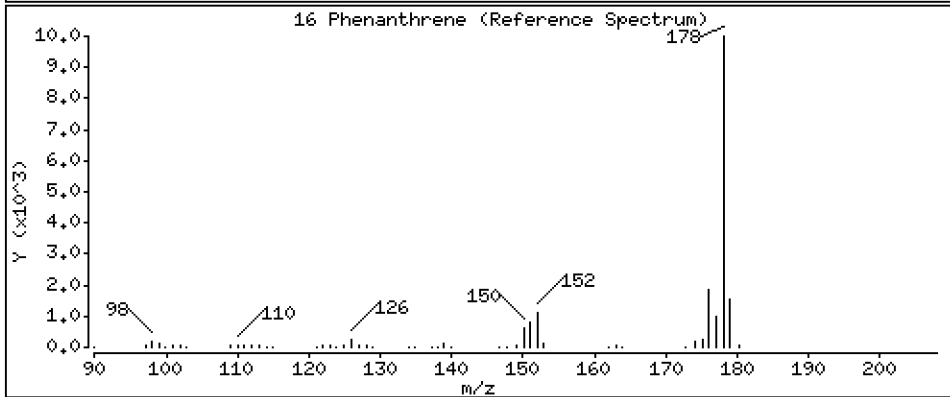
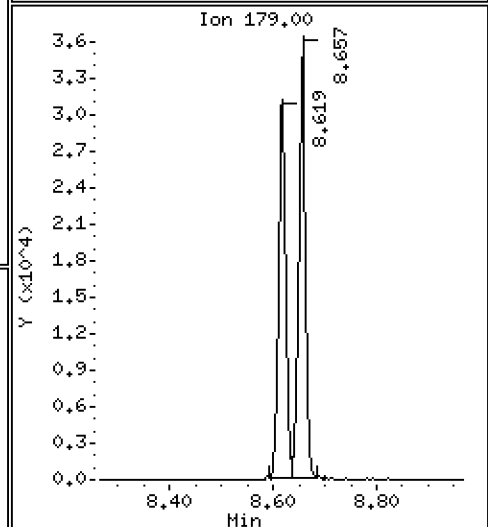
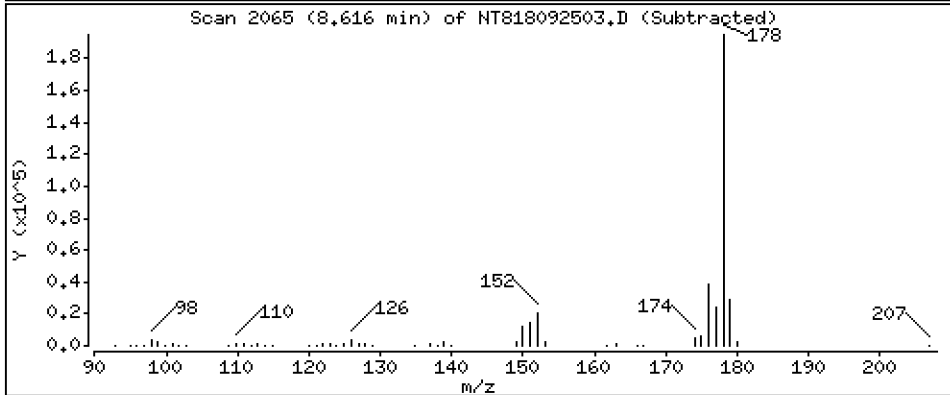
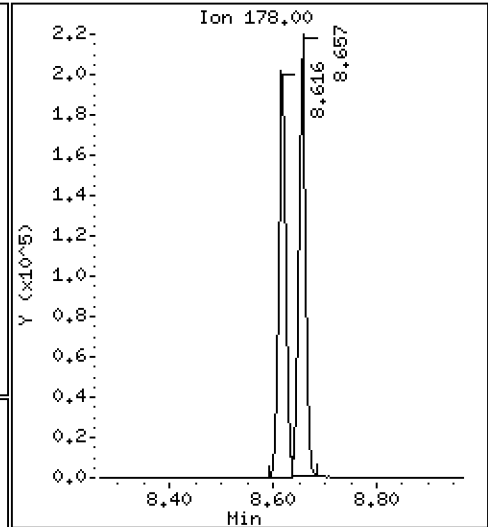
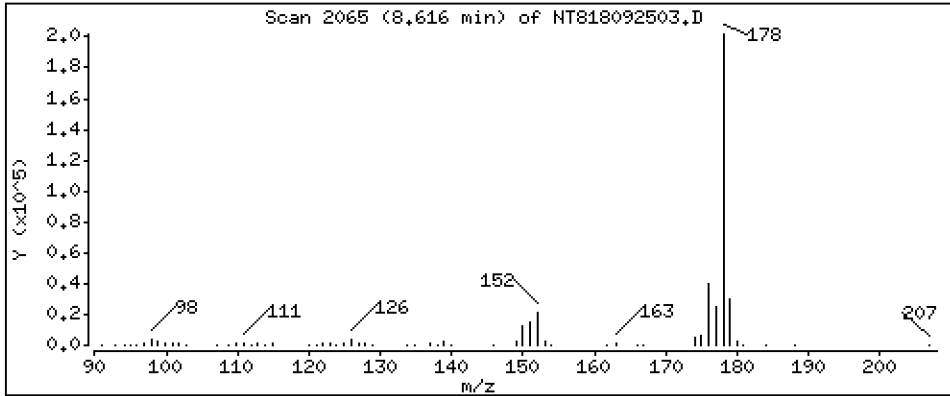
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

16 Phenanthrene

Concentration: 2,449 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

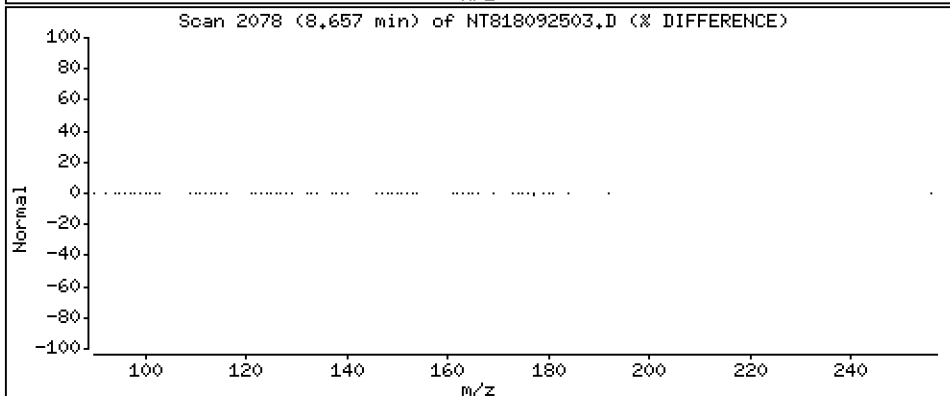
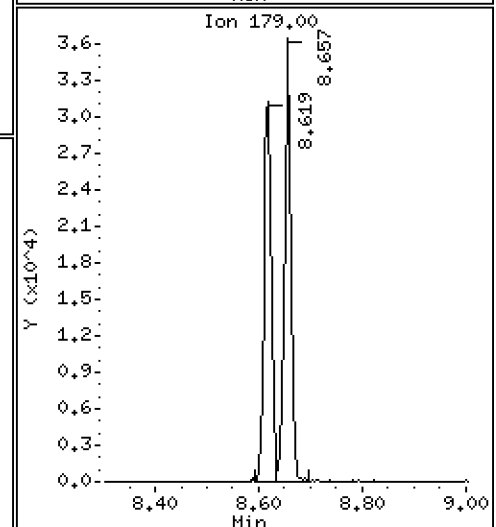
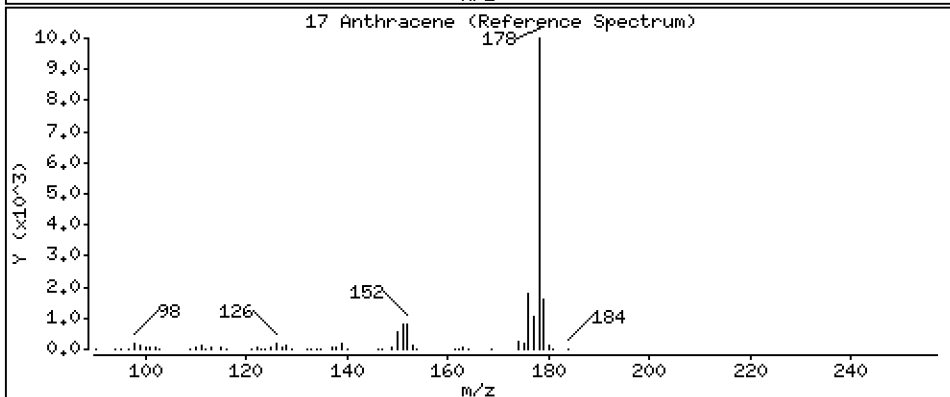
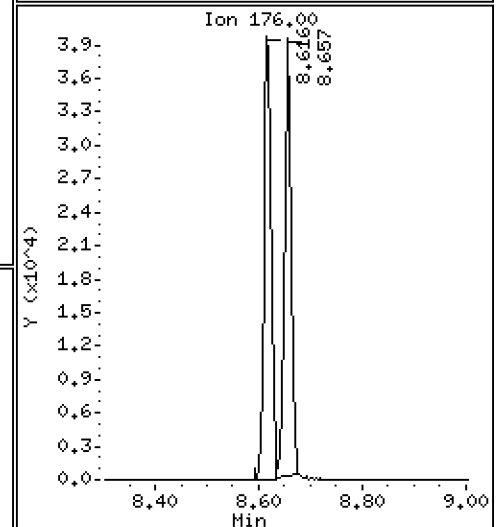
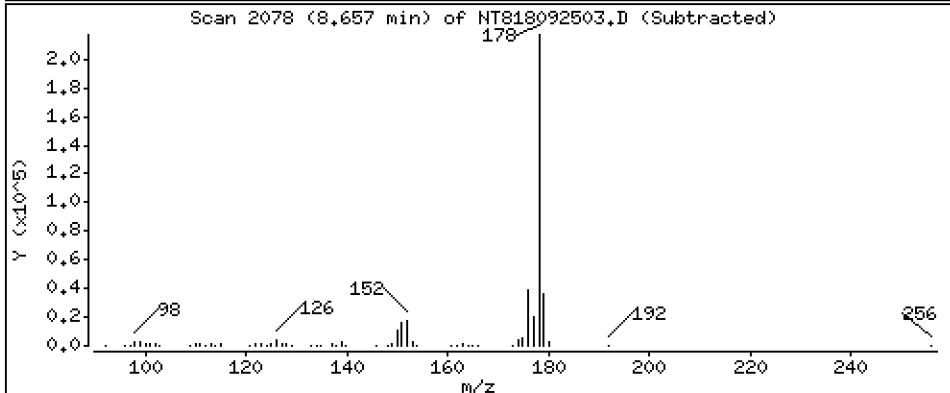
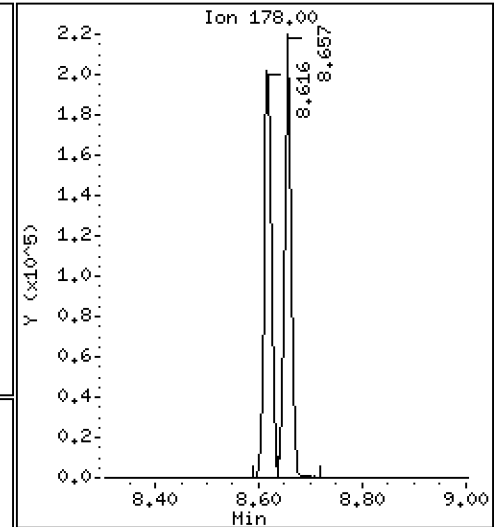
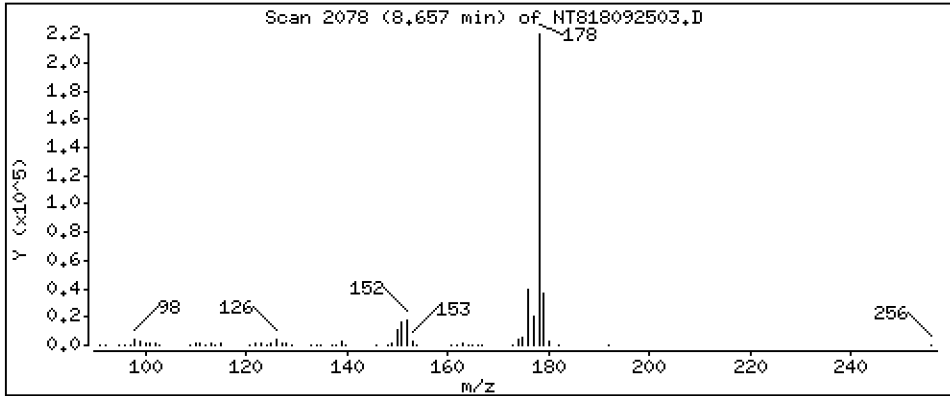
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

17 Anthracene

Concentration: 2,572 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

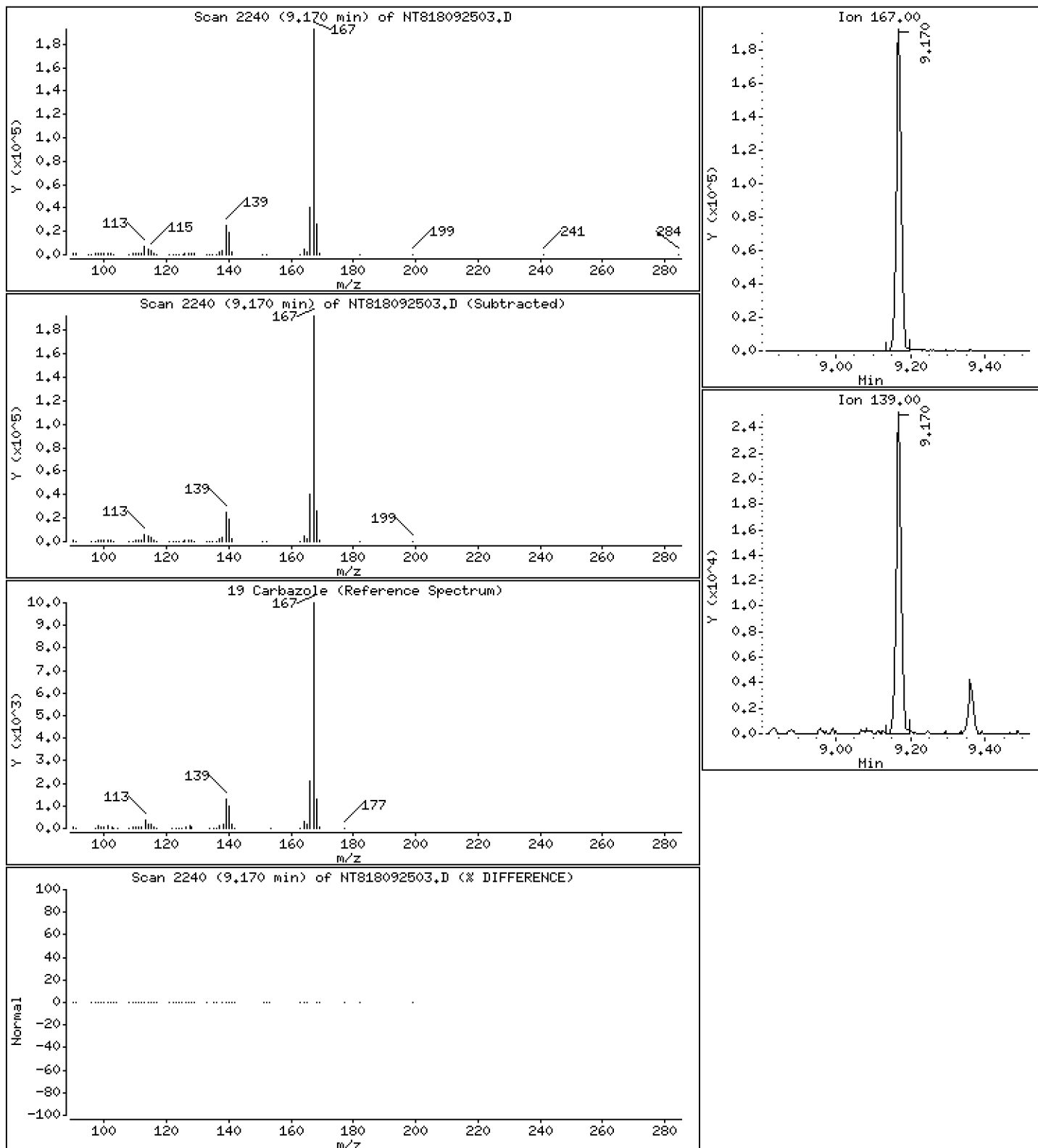
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

19 Carbazole

Concentration: 2,510 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

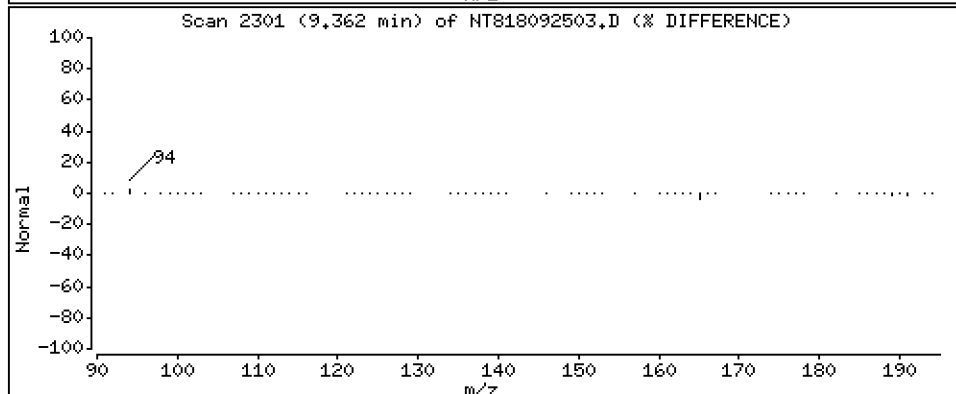
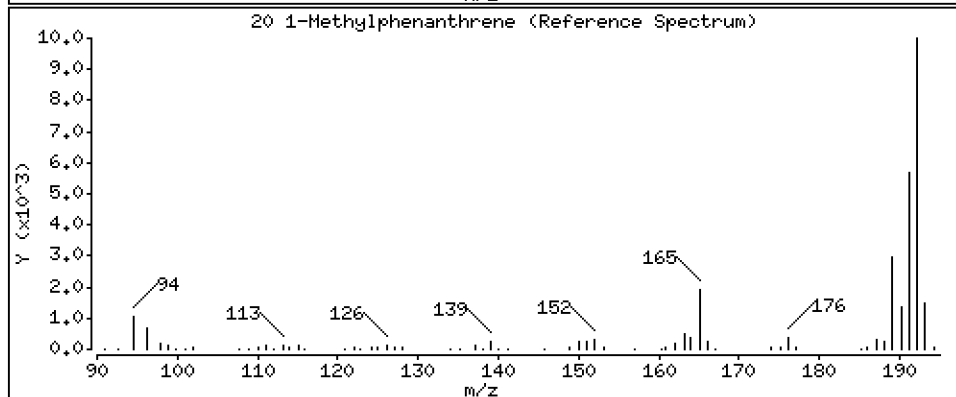
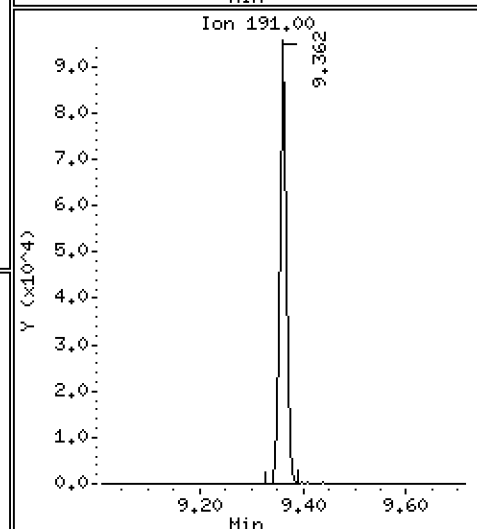
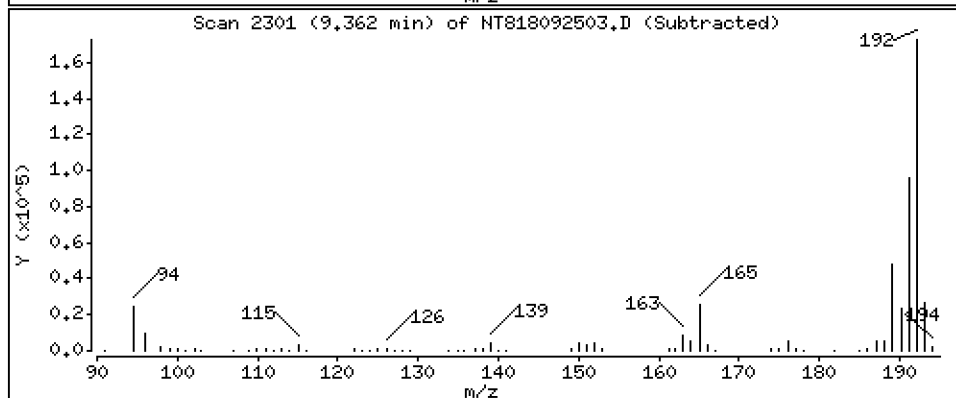
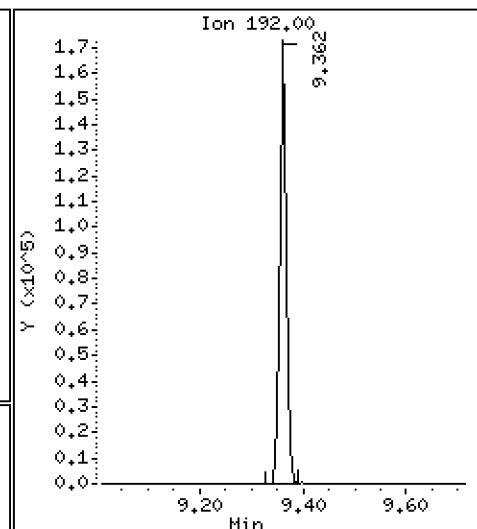
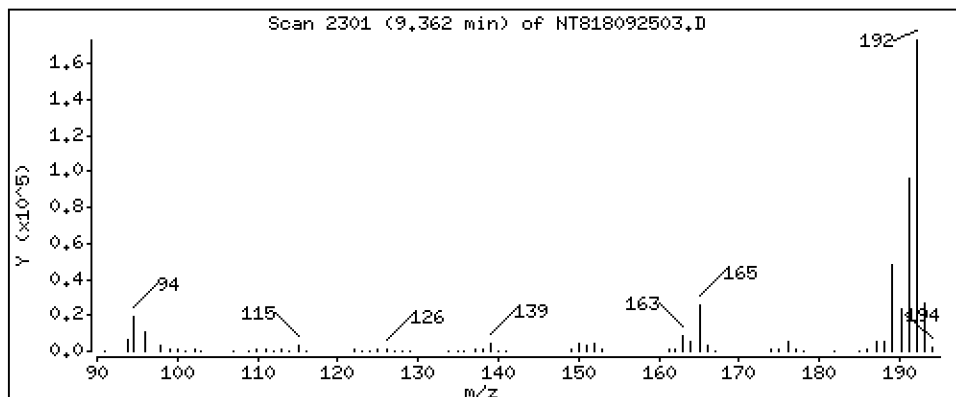
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

20 1-Methylphenanthrene

Concentration: 2,447 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

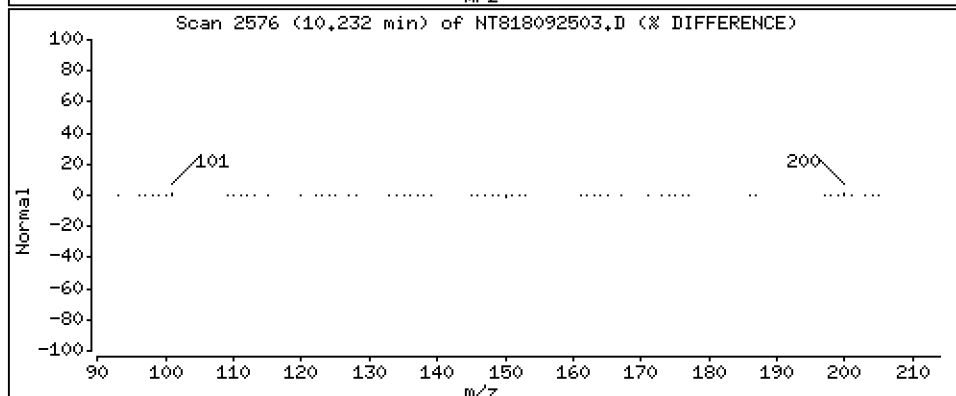
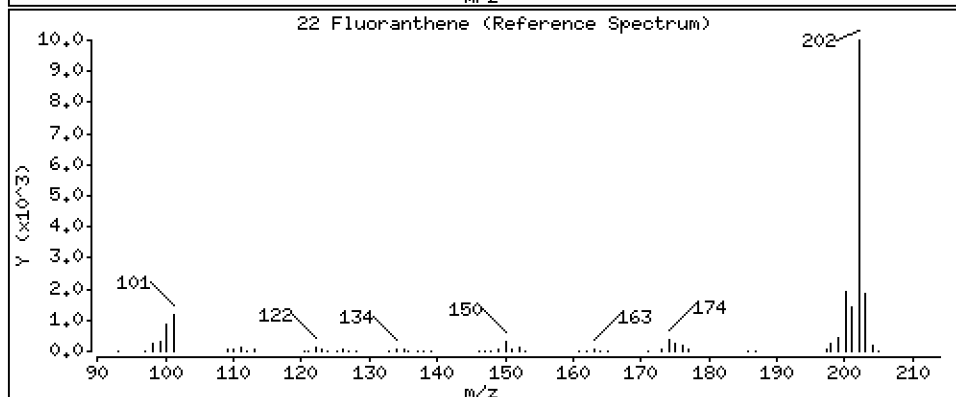
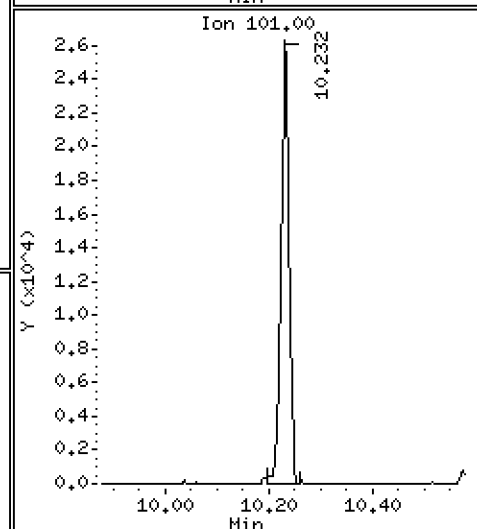
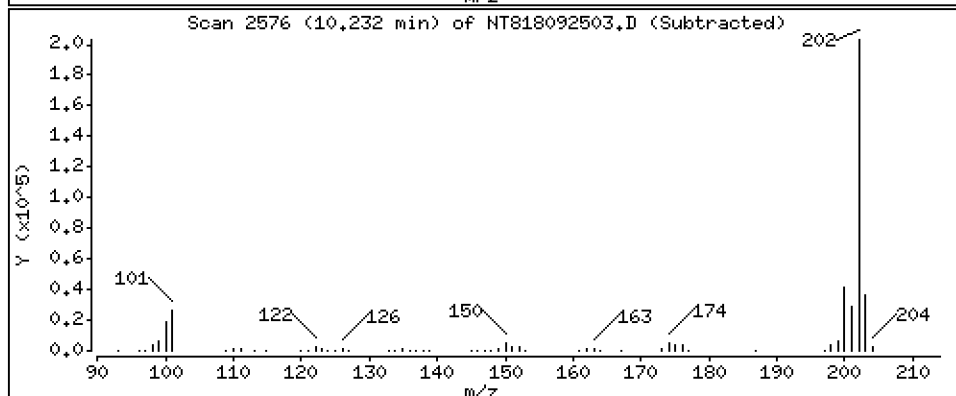
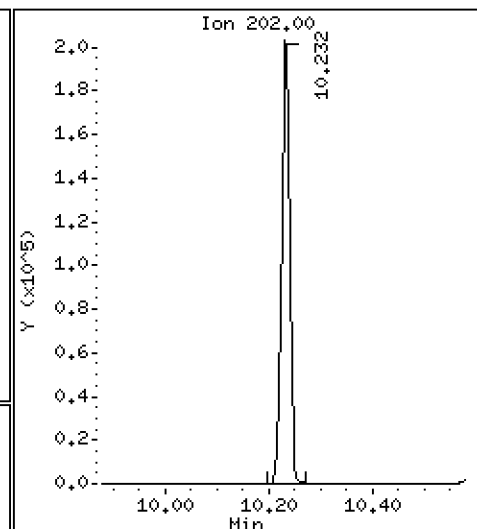
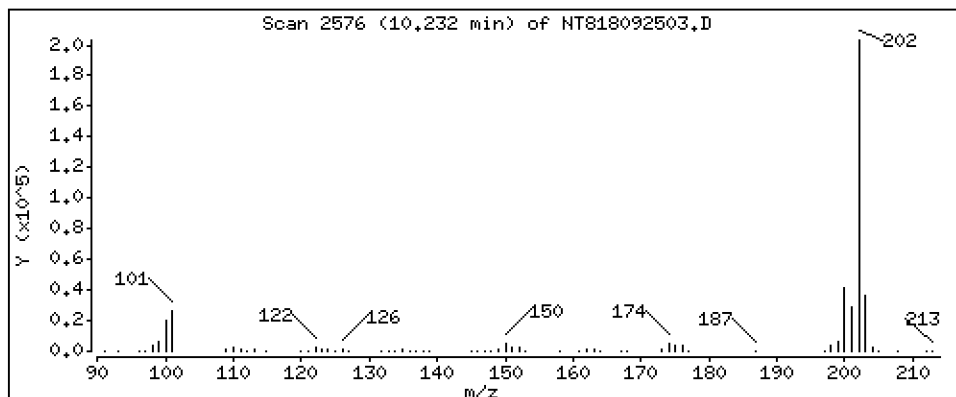
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

22 Fluoranthene

Concentration: 2,416 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

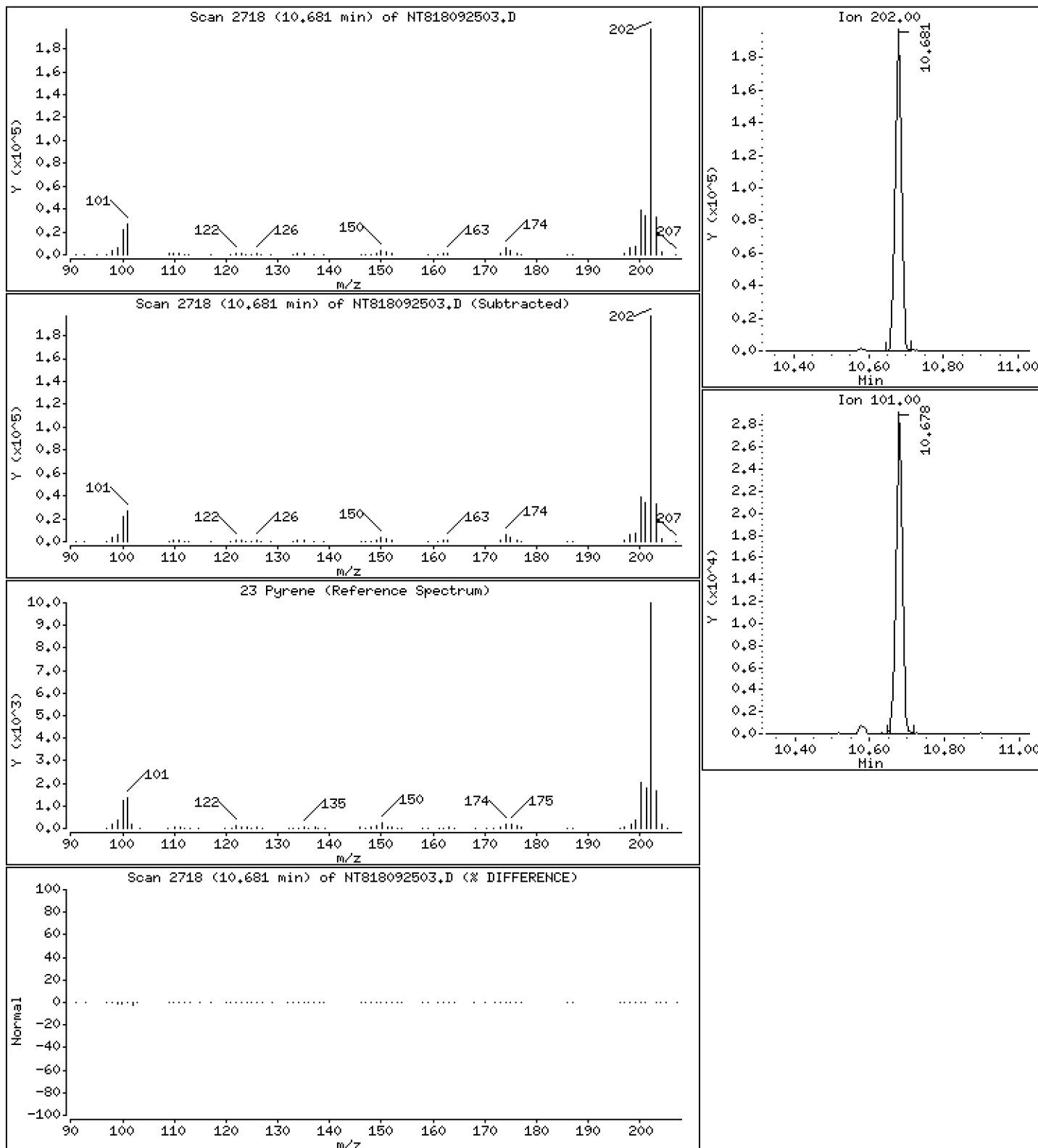
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

23 Pyrene

Concentration: 2,511 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

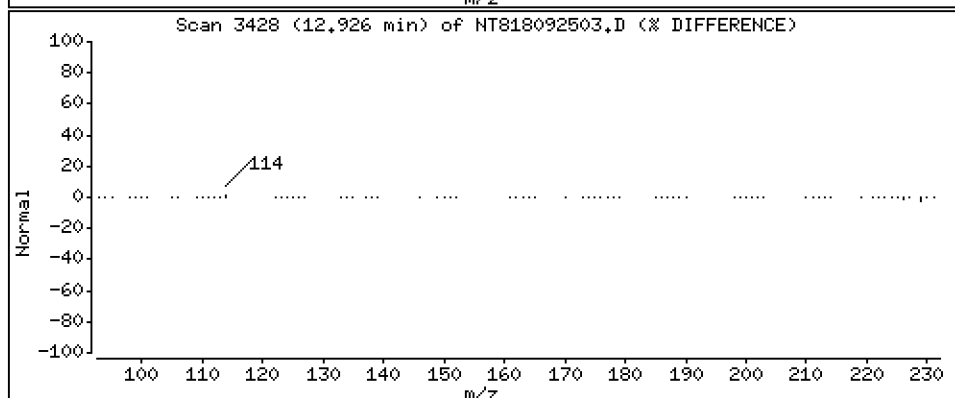
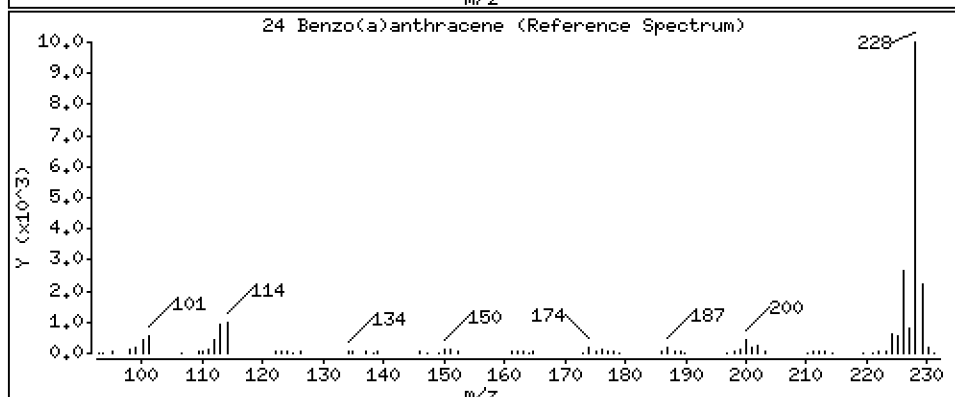
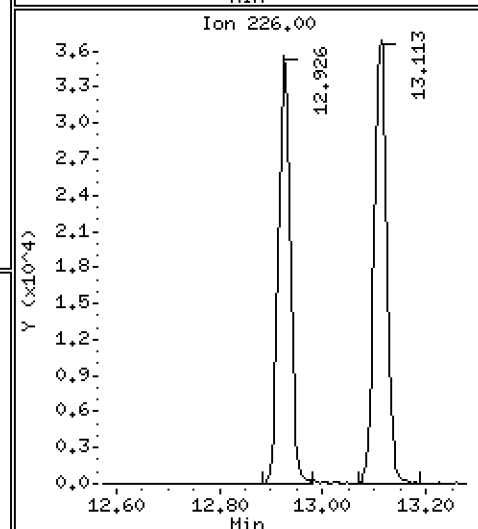
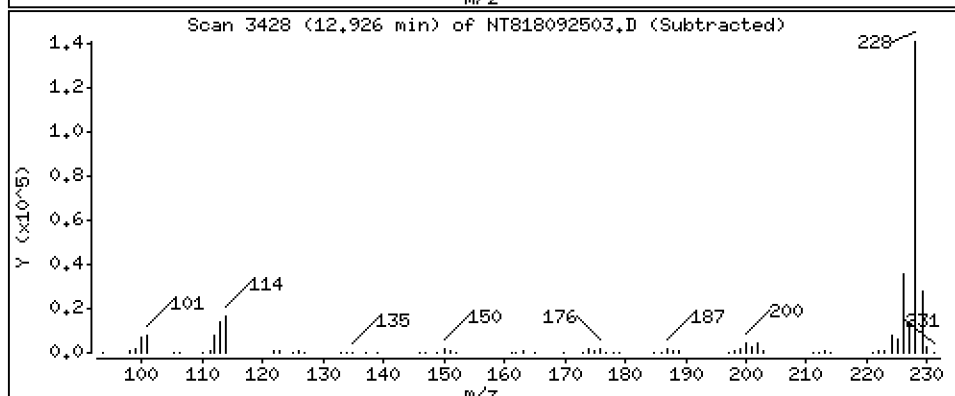
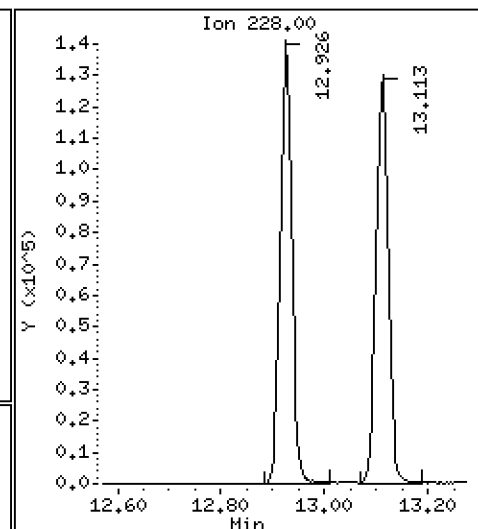
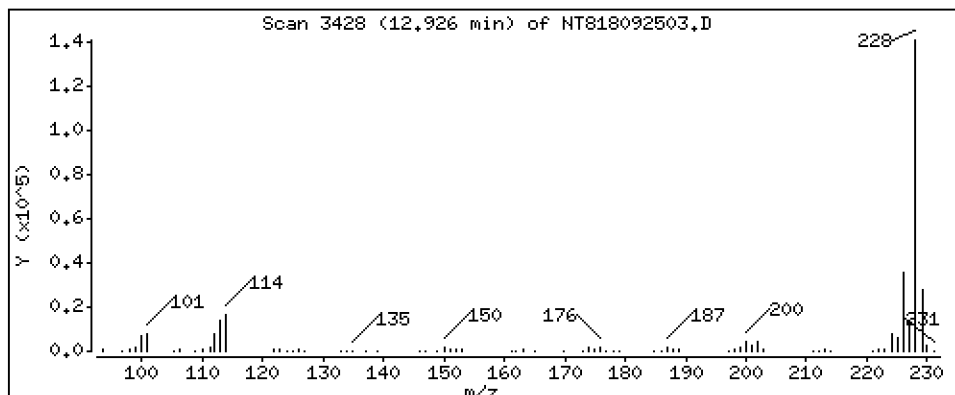
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

24 Benzo(a)anthracene

Concentration: 2,458 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

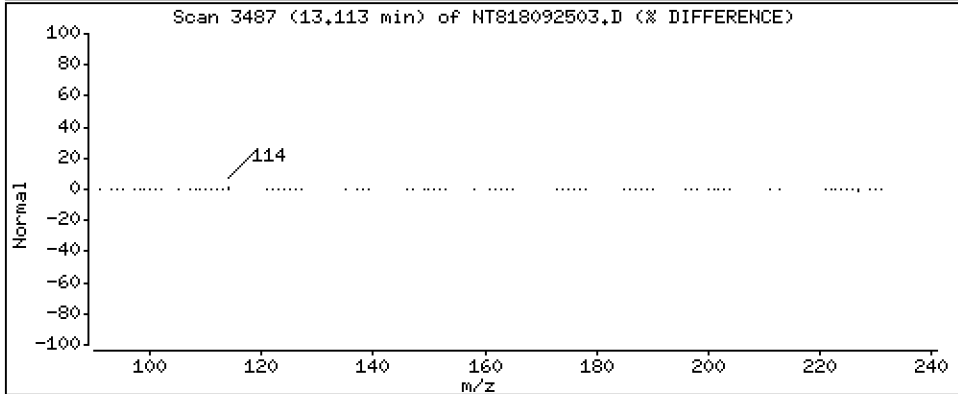
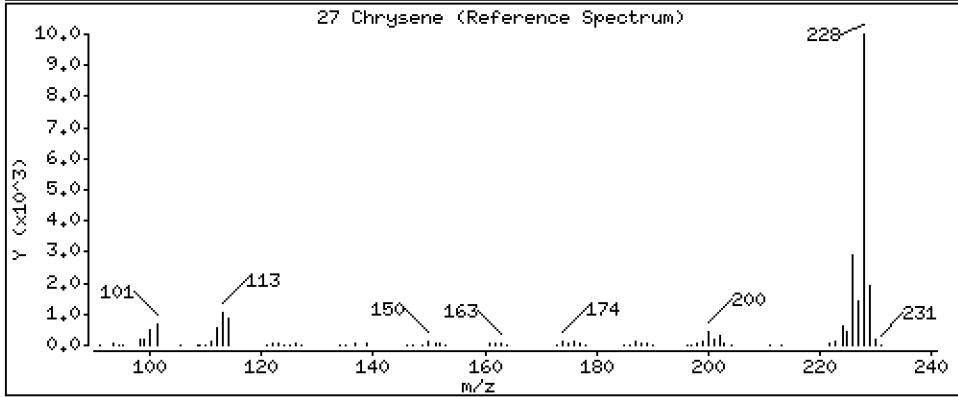
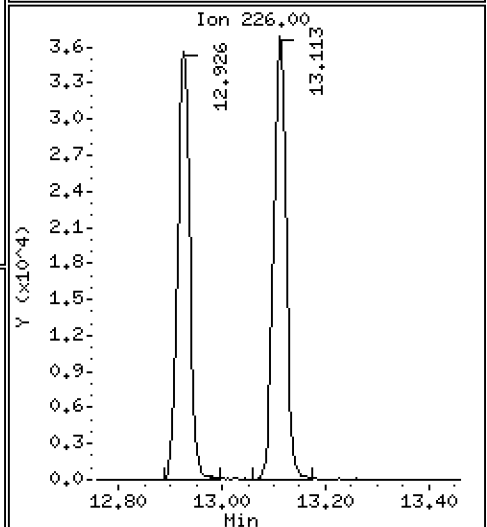
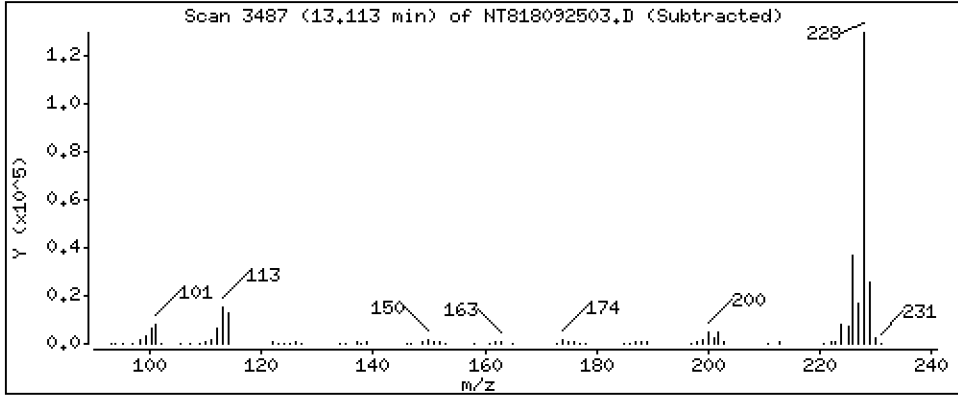
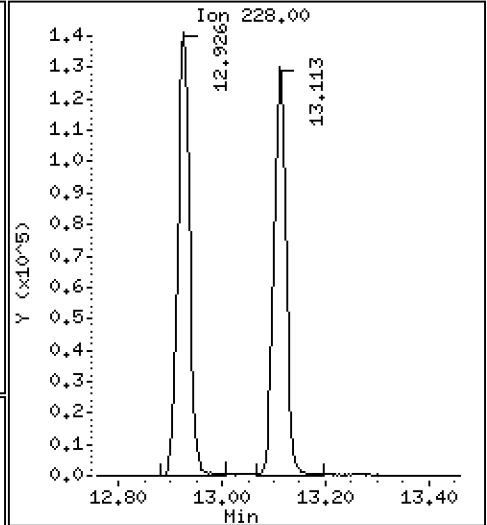
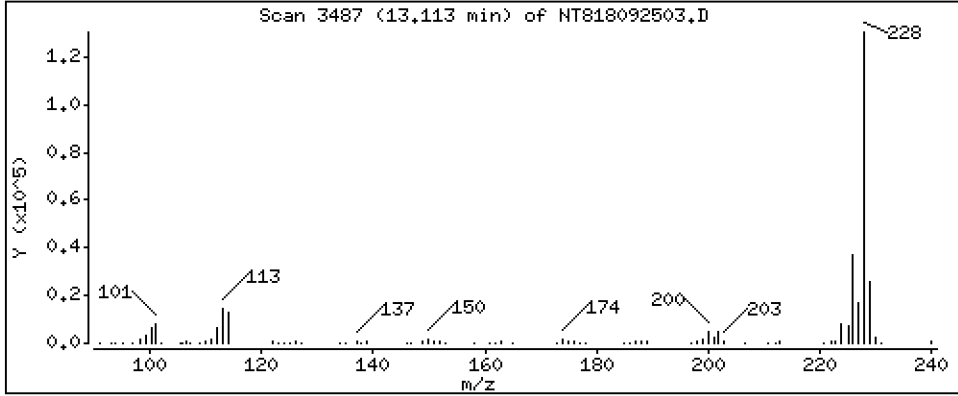
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

27 Chrysene

Concentration: 2,510 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

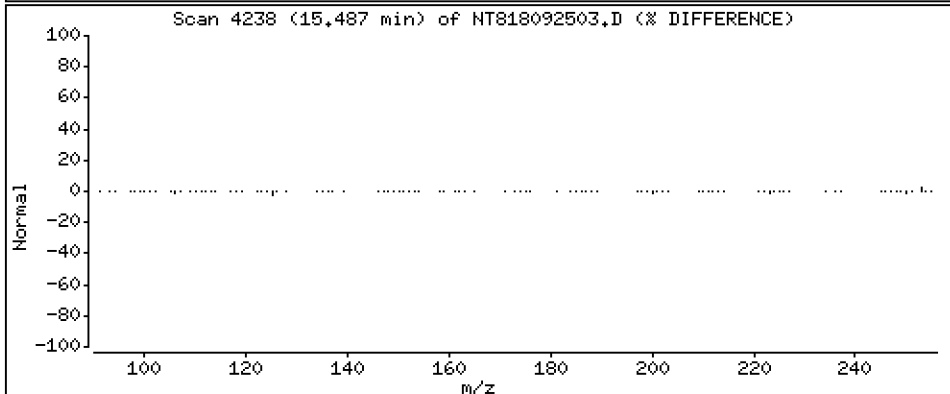
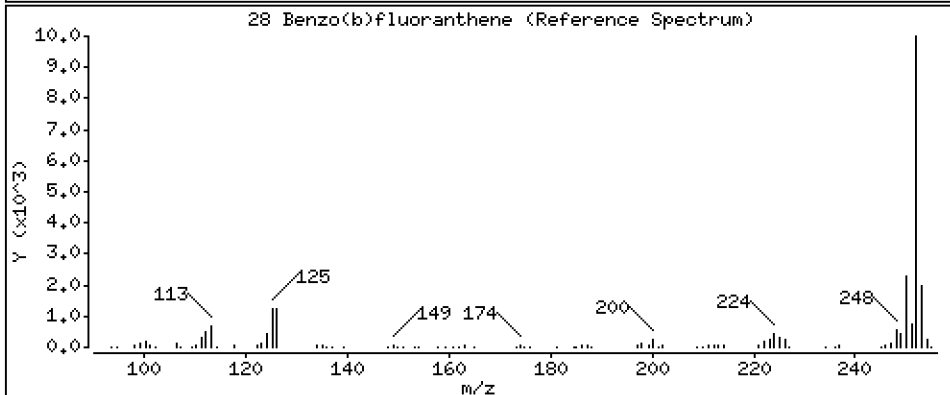
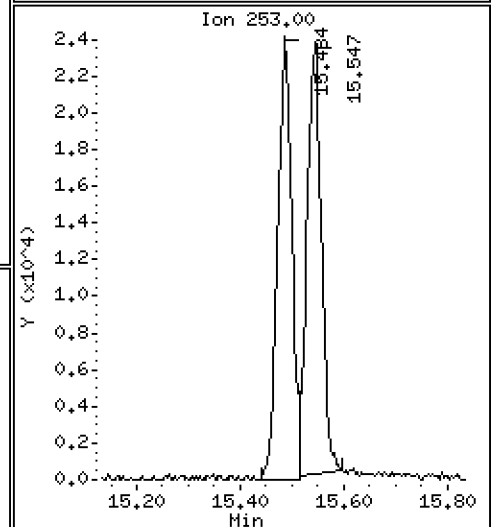
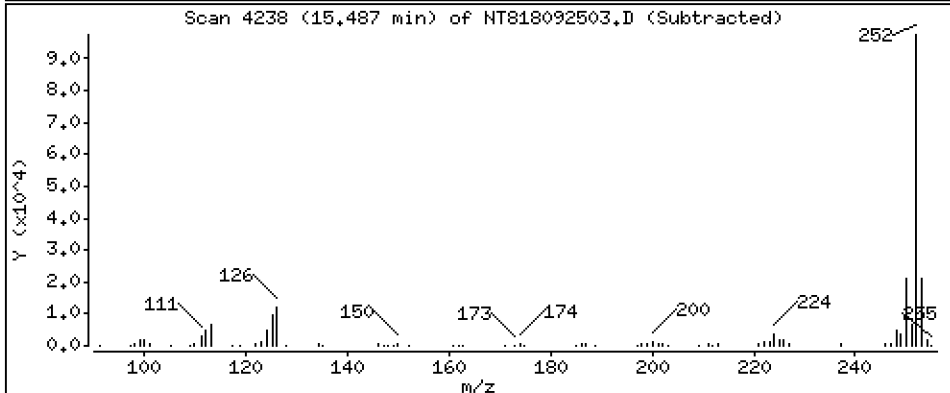
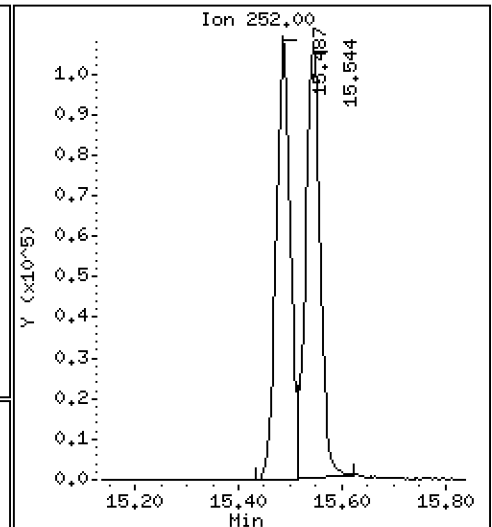
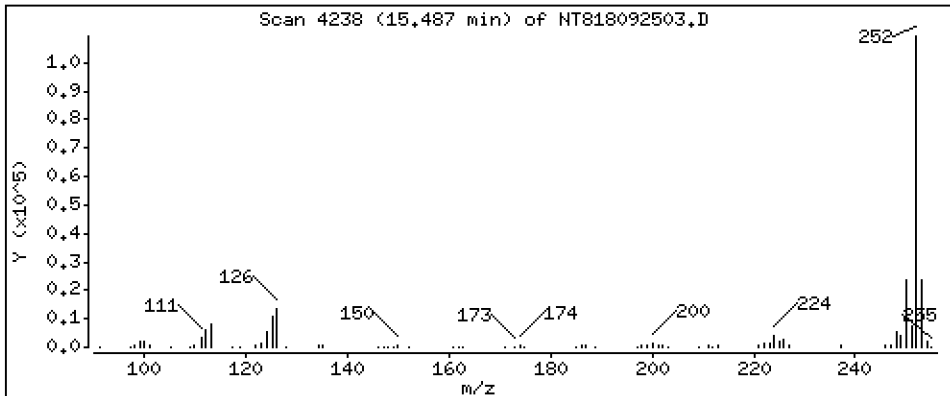
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

28 Benzo(b)fluoranthene

Concentration: 2,520 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

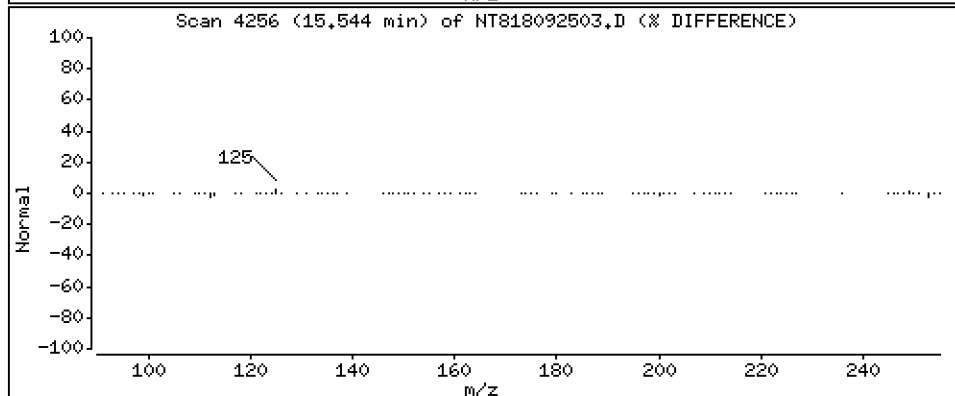
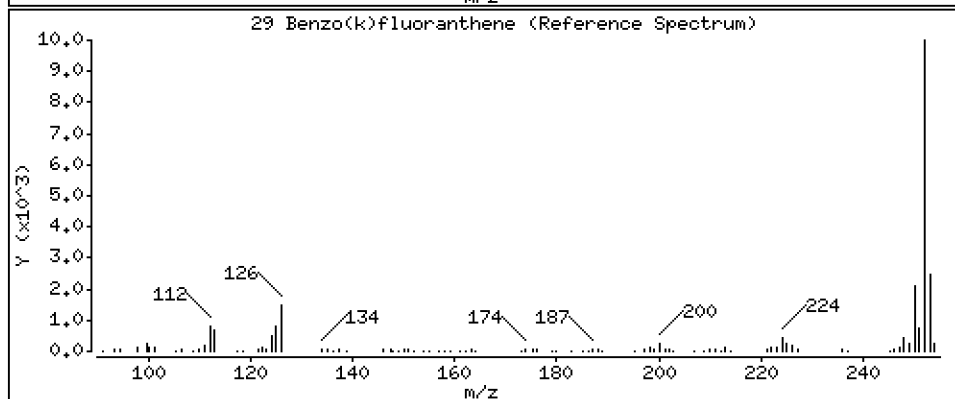
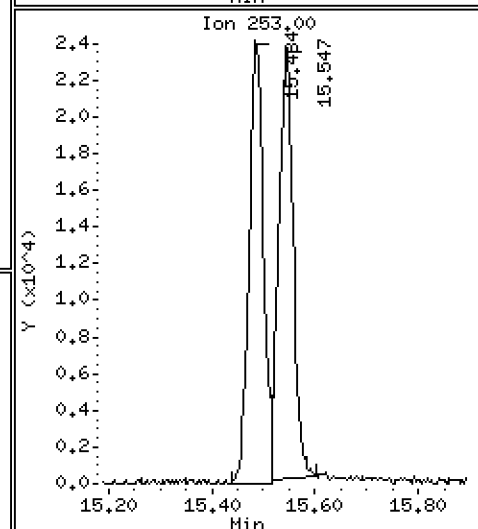
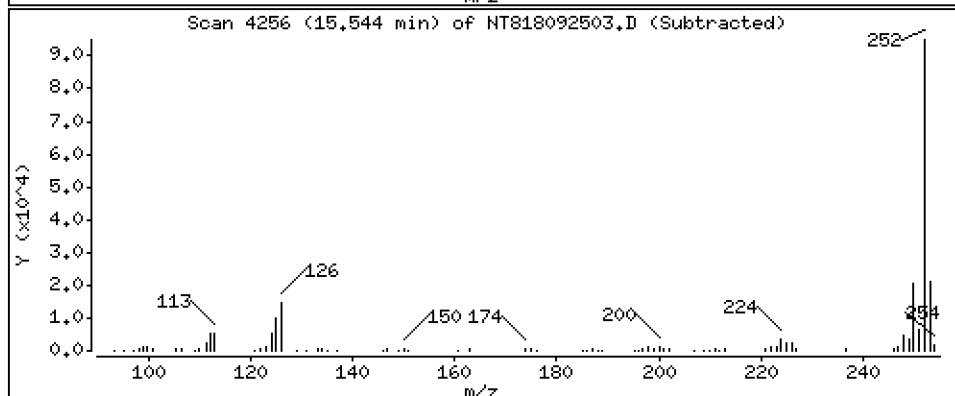
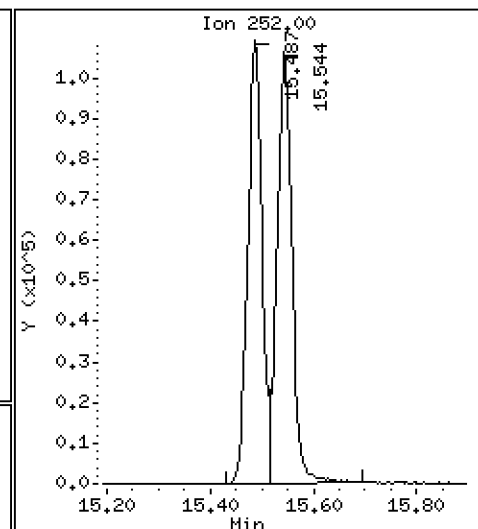
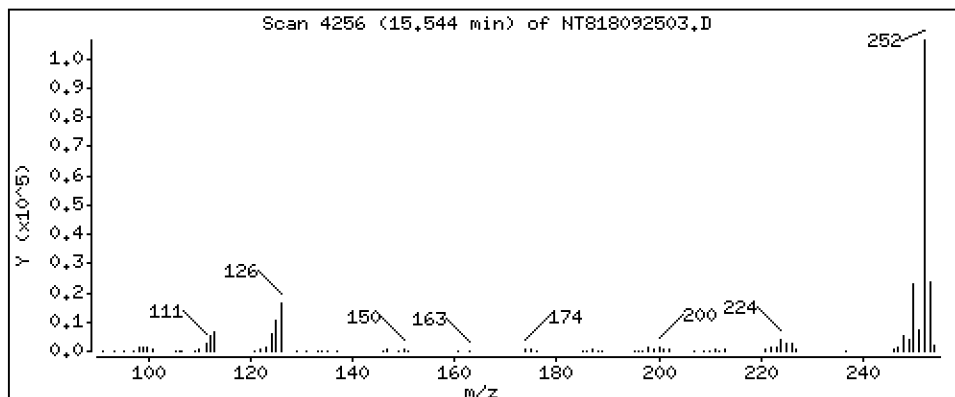
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

29 Benzo(k)fluoranthene

Concentration: 2,624 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

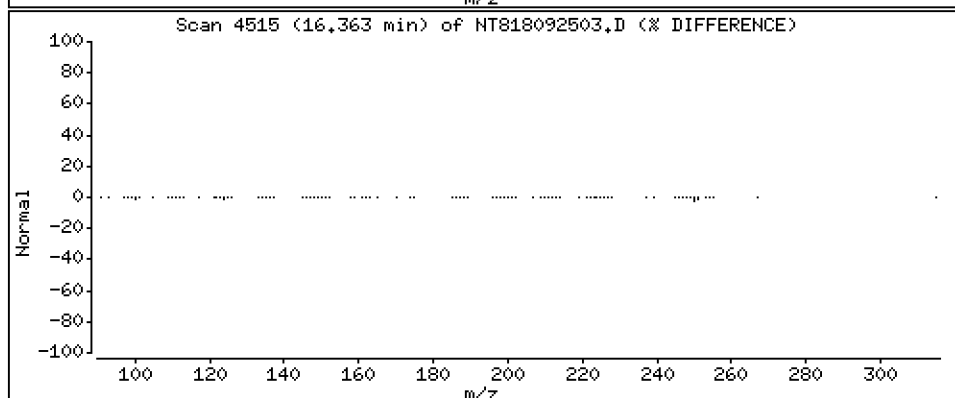
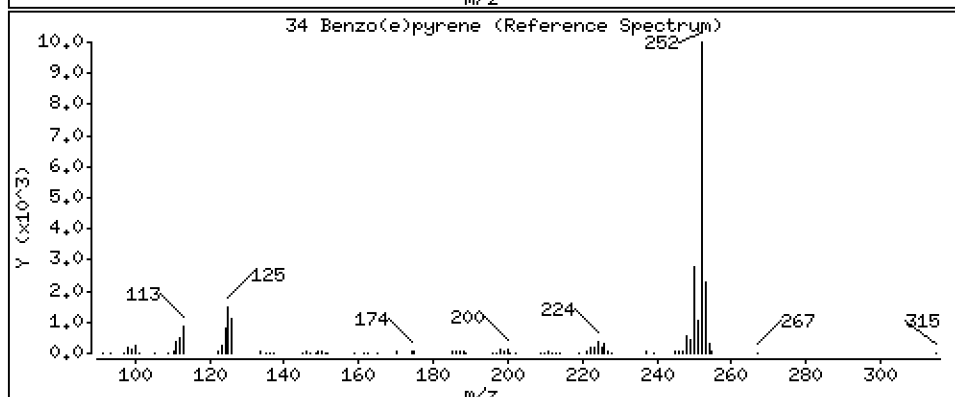
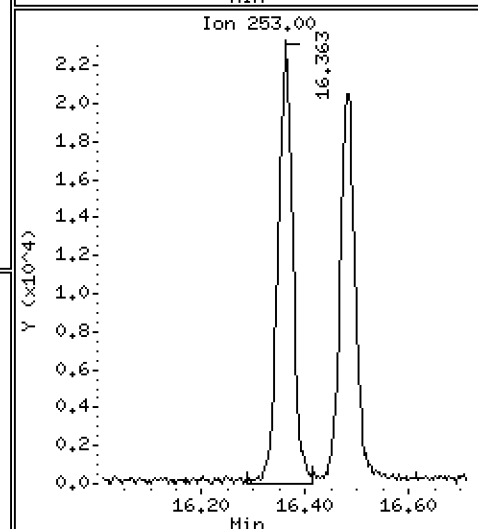
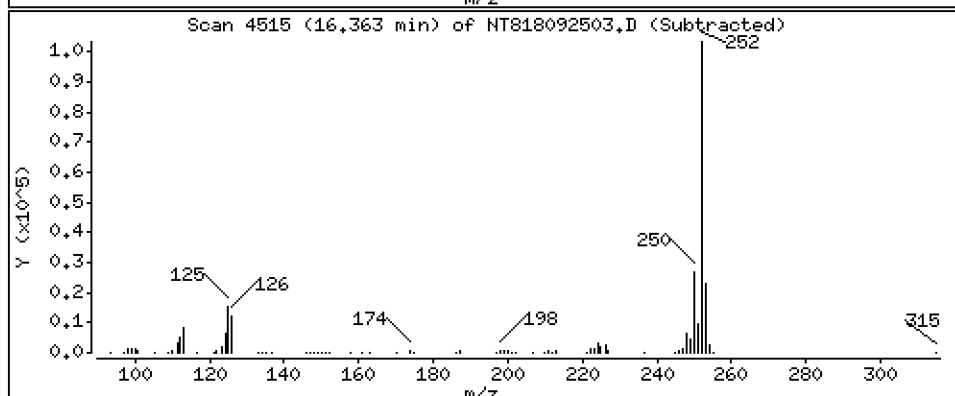
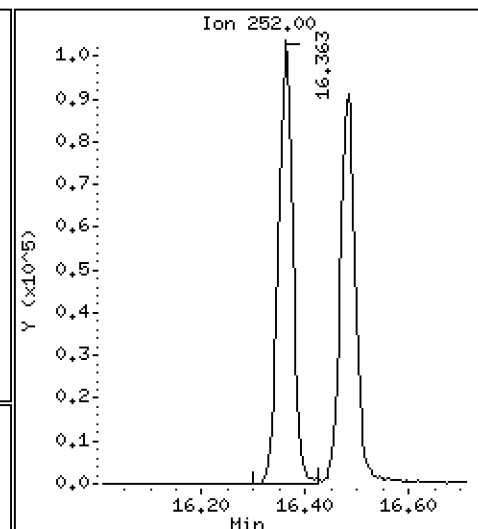
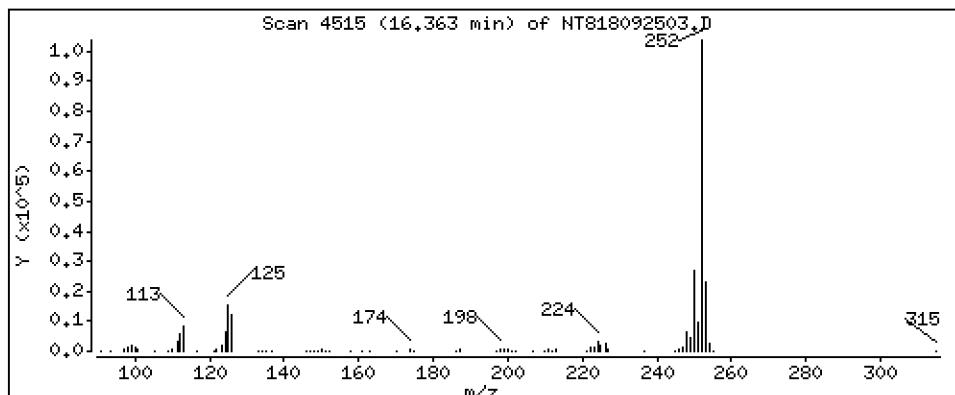
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

34 Benzo(e)pyrene

Concentration: 2,539 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

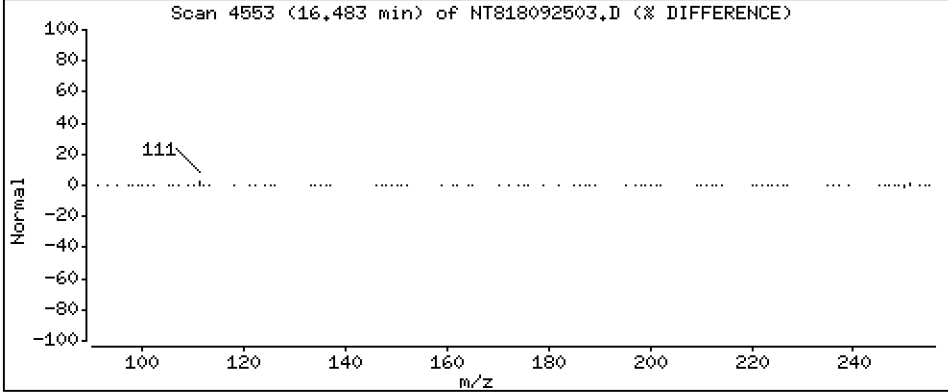
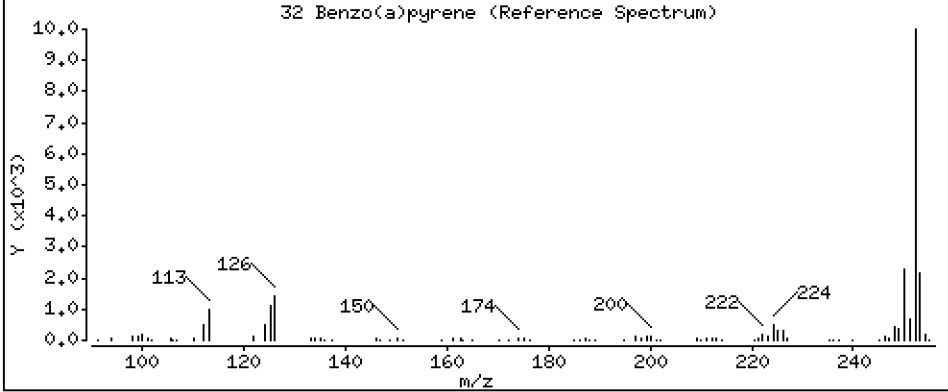
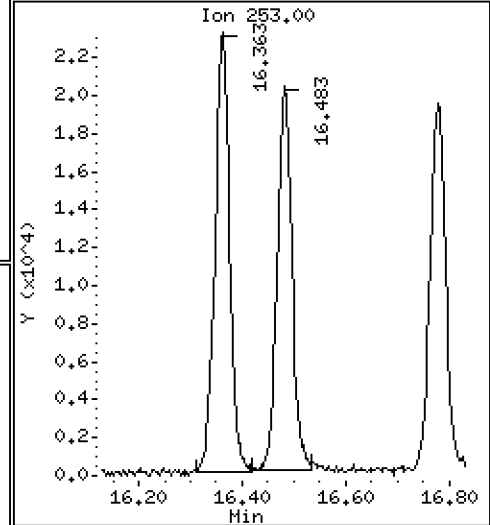
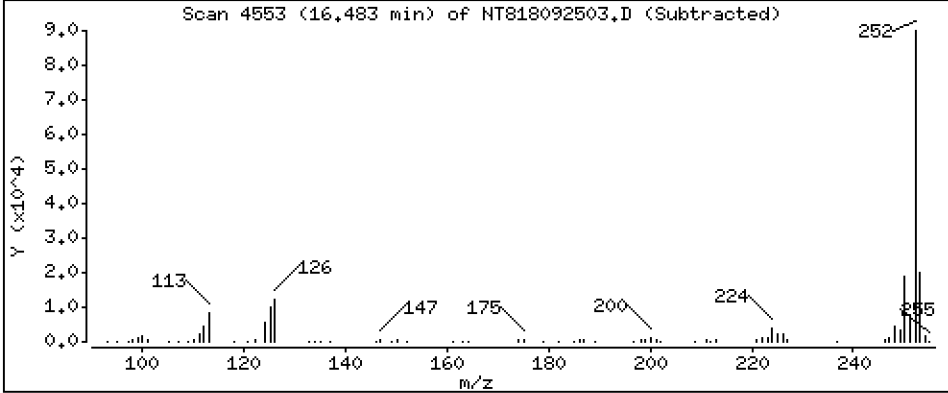
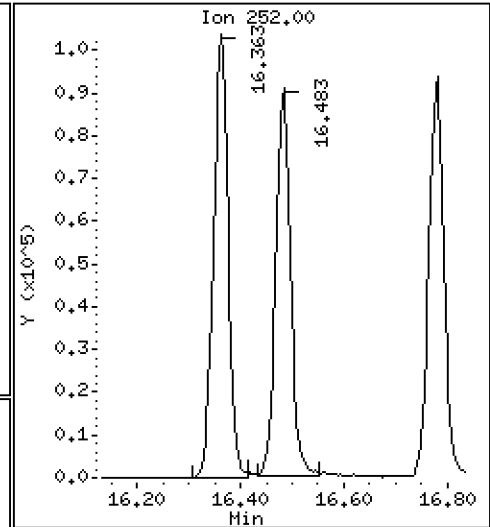
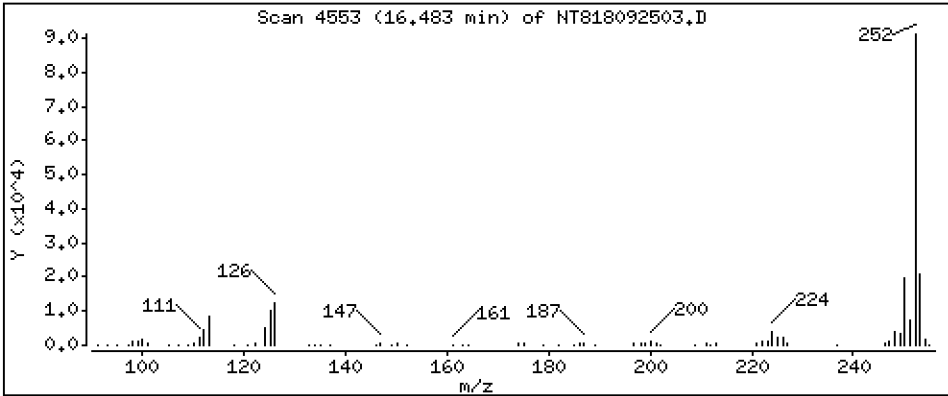
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

32 Benzo(a)pyrene

Concentration: 2,415 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

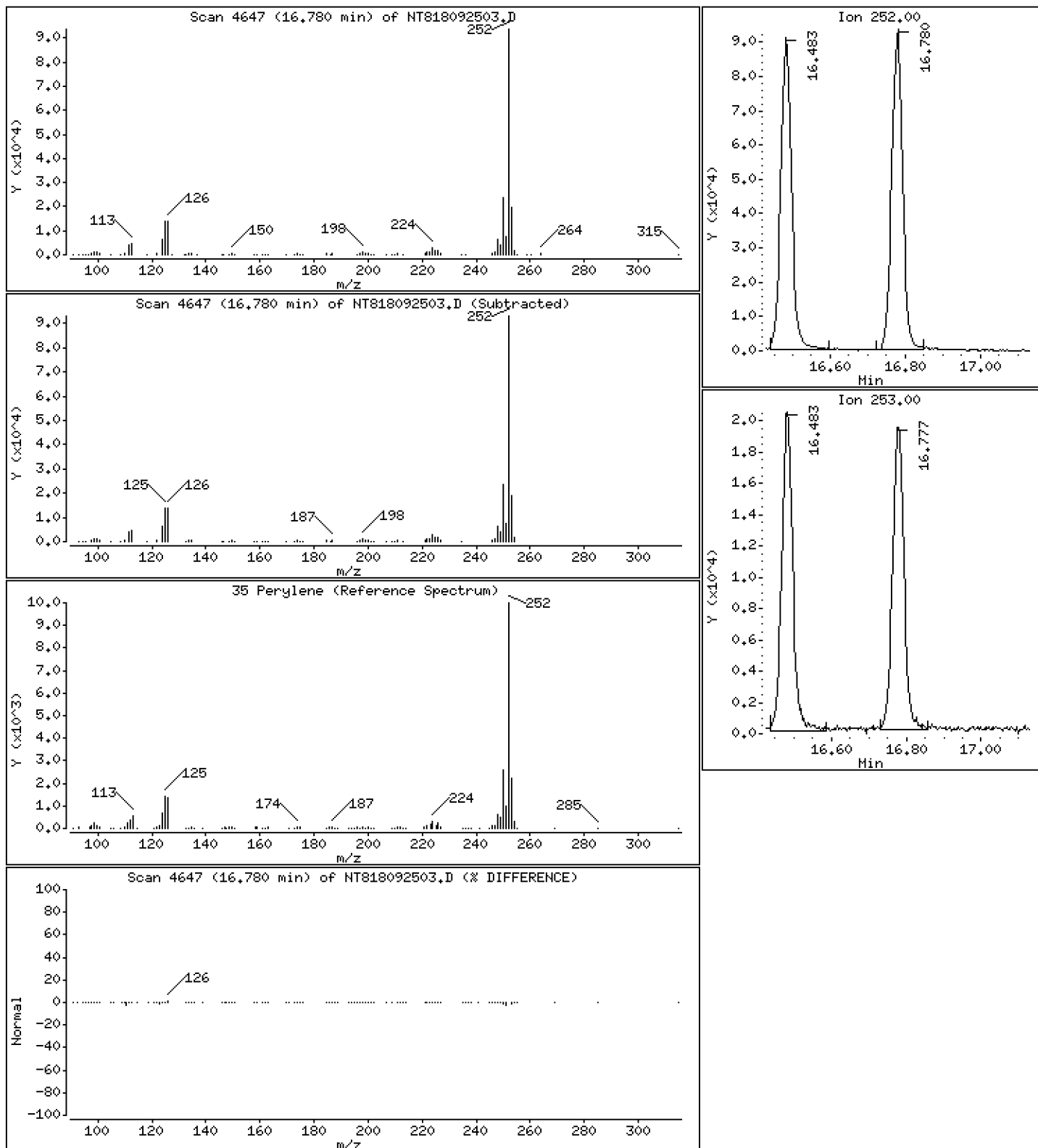
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

35 Perylene

Concentration: 2,440 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

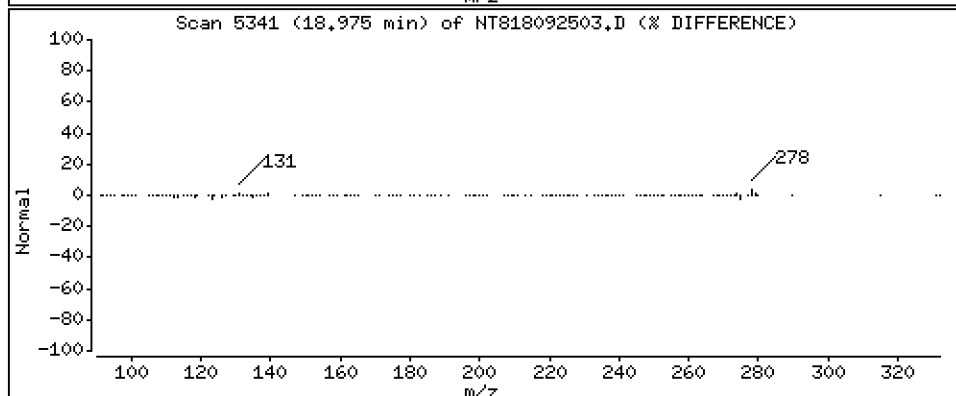
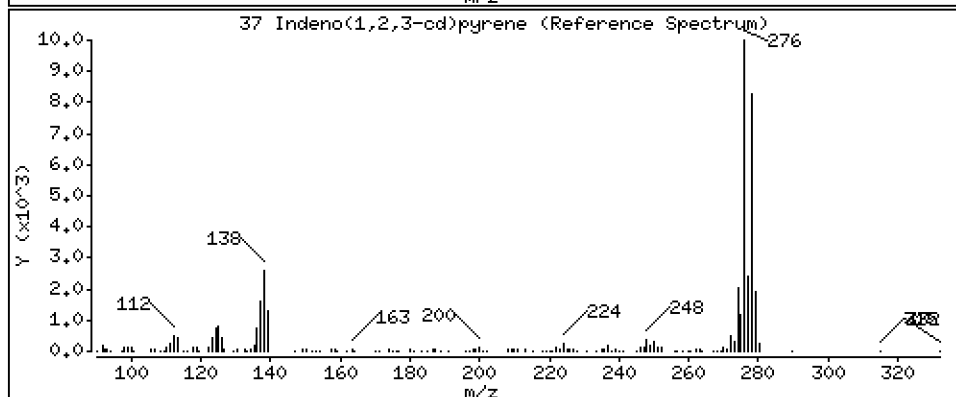
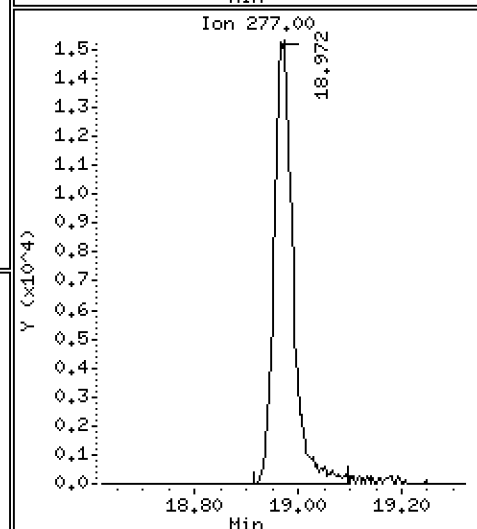
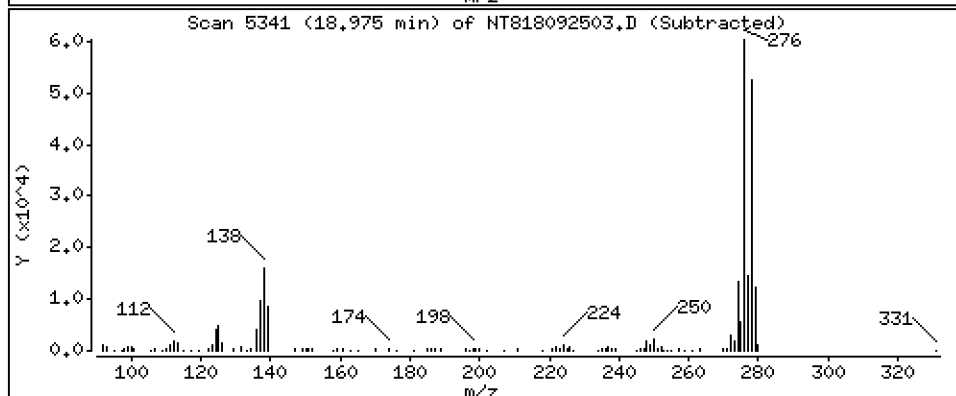
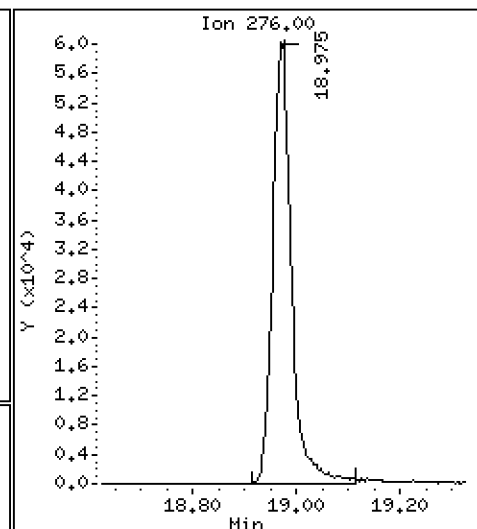
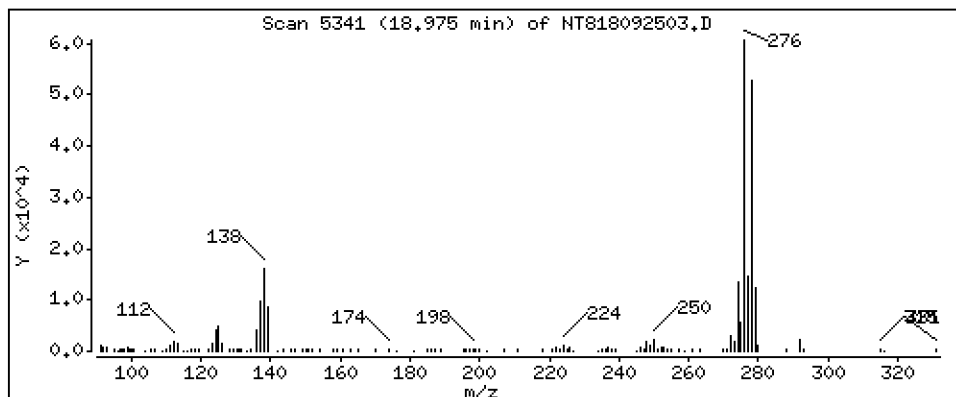
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

37 Indeno(1,2,3-cd)pyrene

Concentration: 1,940 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

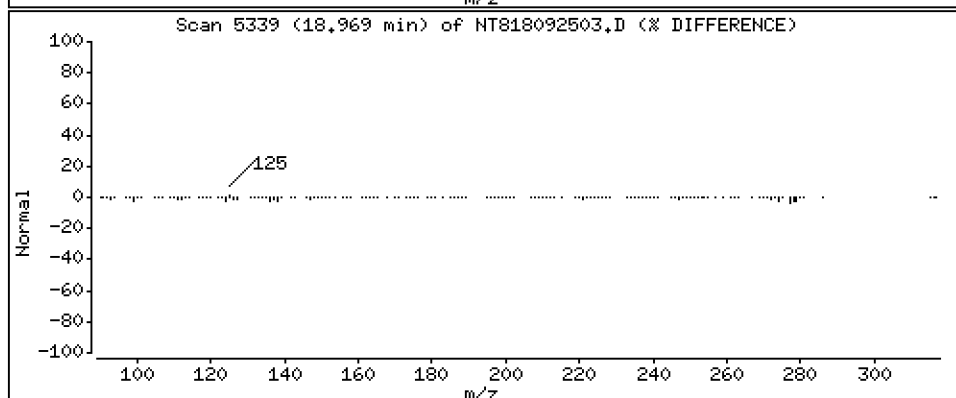
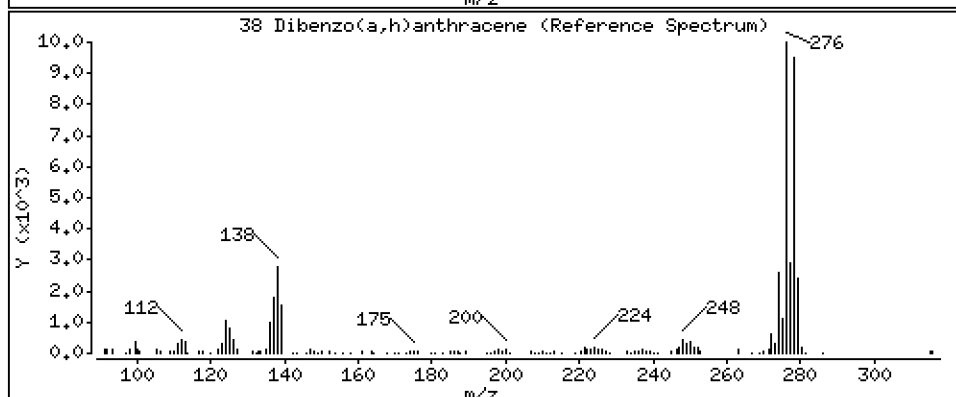
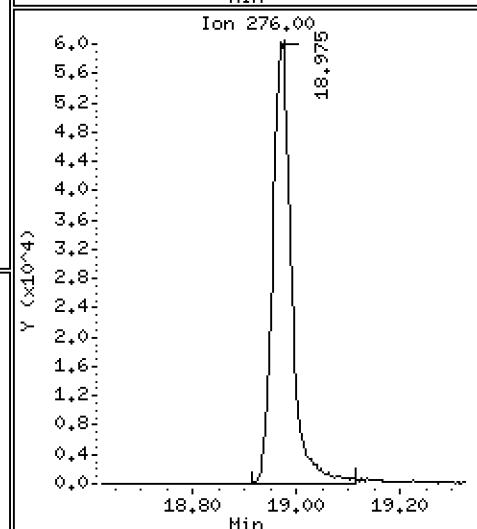
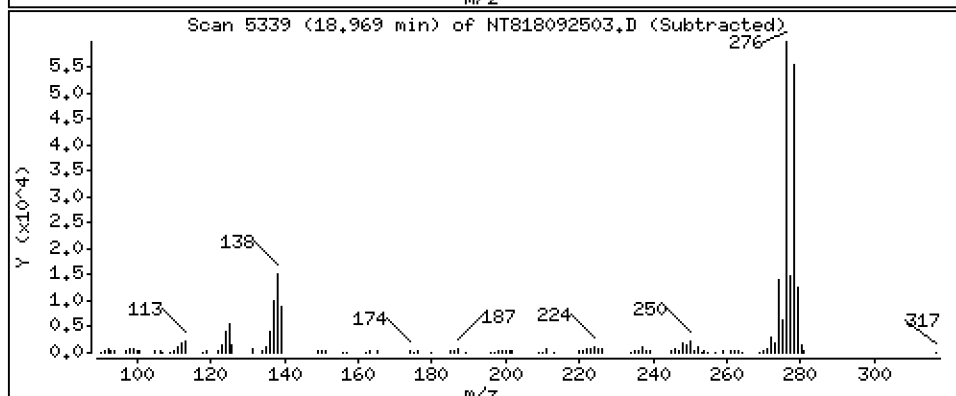
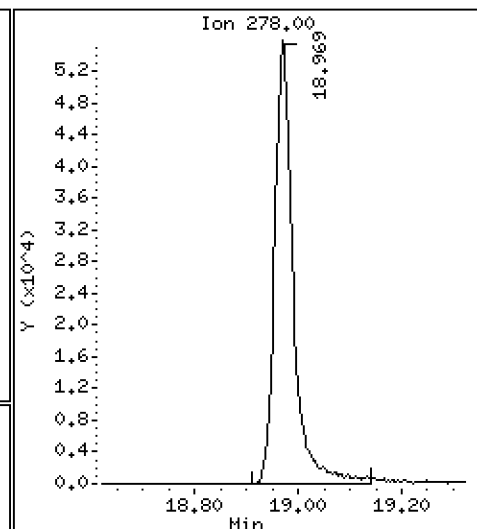
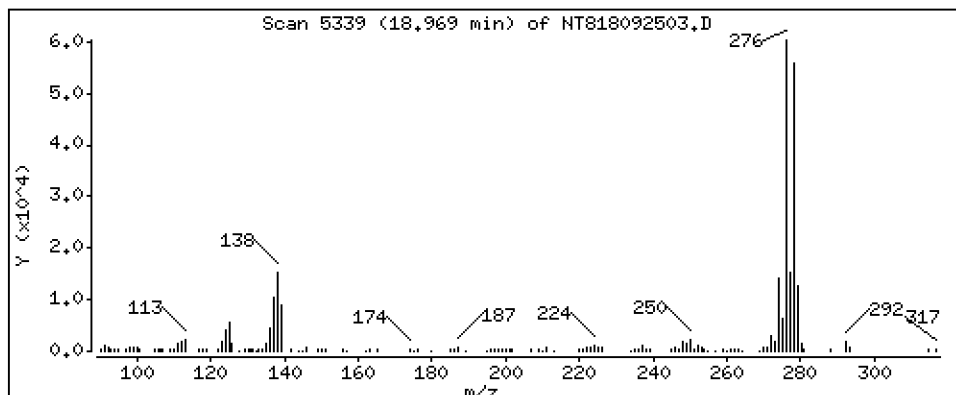
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

38 Dibenzo(a,h)anthracene

Concentration: 2,105 ug/mL



Date : 25-SEP-2018 11:55

Client ID:

Instrument: nt8.i

Sample Info: SGH0048-SCV2

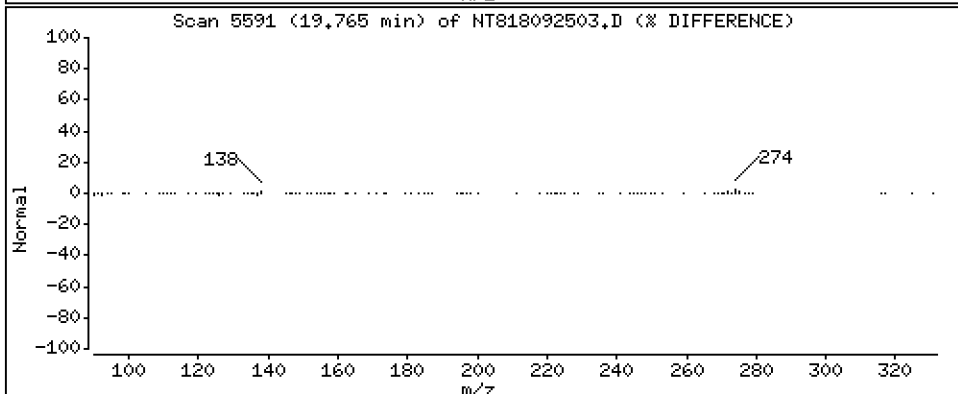
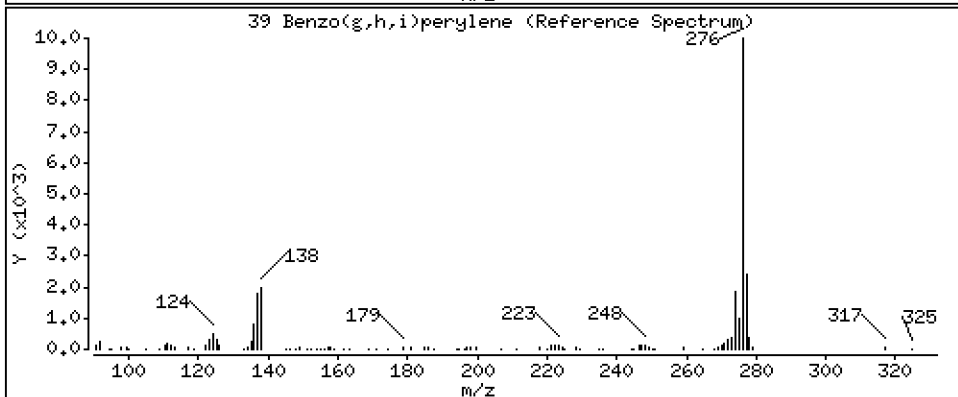
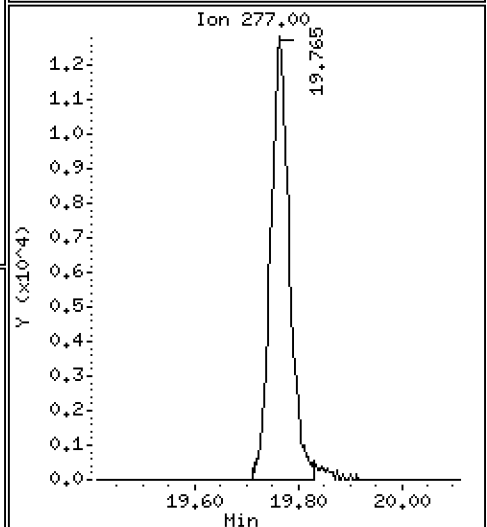
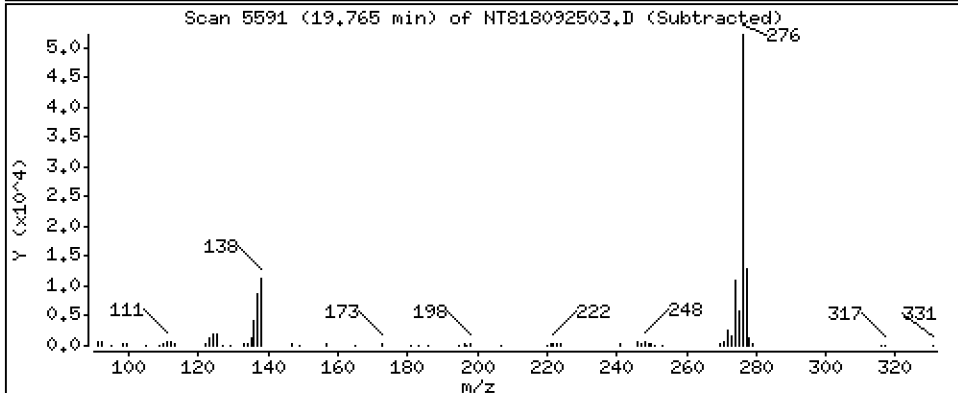
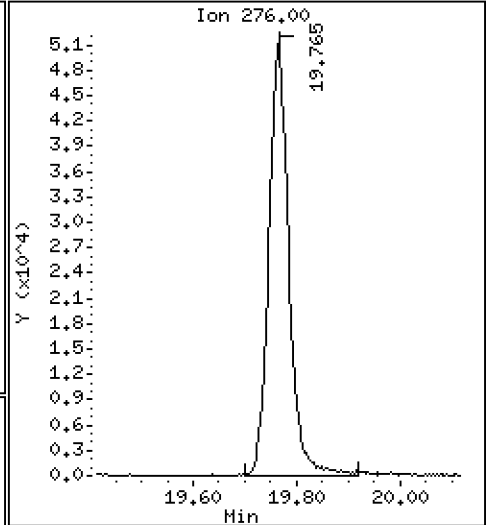
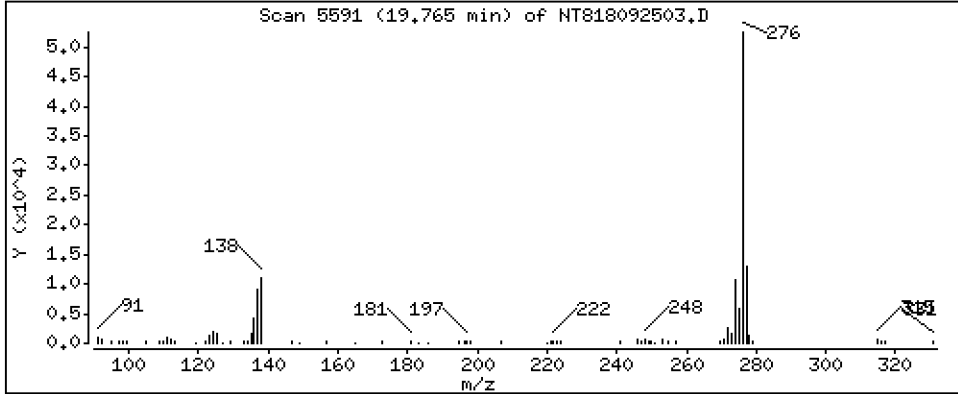
Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0,25

39 Benzo(g,h,i)perylene

Concentration: 2,167 ug/mL



ARI Labs, Inc.

Semivolatle Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180925.b\NT818092503.D
 Lab Smp Id: SGH0048-SCV2
 Inj Date : 25-SEP-2018 11:55
 Operator : JZ Inst ID: nt8.i
 Smp Info : SGH0048-SCV2
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20180925.b\FSIMPNA180803.m
 Meth Date : 25-Sep-2018 16:05 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SCV.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		4.341	4.341	(1.000)	142291	2.00000	
2 Naphthalene	128		4.369	4.369	(1.007)	186997	2.41129	2.411
§ 3 2-Methylnaphthalene-d10	152		5.062	5.058	(1.166)	125064	2.48530	2.485
4 2-Methylnaphthalene	141		5.106	5.106	(1.176)	105871	2.43461	2.435
5 1-methylnaphthalene	141		5.302	5.299	(1.221)	107238	2.39523	2.395
7 Biphenyl	154		5.764	5.764	(0.875)	155903	2.37009	2.370
8 2,6-Dimethylnaphthalene	156		5.802	5.798	(0.881)	115773	2.42181	2.422
9 Acenaphthylene	152		6.475	6.475	(0.983)	190872	2.39580	2.396
* 10 Acenaphthene-d10	164		6.586	6.586	(1.000)	75112	2.00000	
11 Acenaphthene	153		6.636	6.633	(1.008)	125329	2.33369	2.334
12 Dibenzofuran	168		6.782	6.782	(1.030)	173295	2.32938	2.329
13 1,6,7-Trimethylnaphthalene	170		6.855	6.854	(1.041)	113806	2.35933	2.359
14 Fluorene	166		7.250	7.250	(1.101)	140208	2.27547	2.275
18 Dibenzothiophene	184		8.461	8.458	(0.986)	189831	2.46983	2.470
* 15 Phenanthrene-d10	188		8.584	8.581	(1.000)	149693	2.00000	
16 Phenanthrene	178		8.616	8.616	(1.004)	197677	2.44860	2.449
17 Anthracene	178		8.657	8.654	(1.008)	203285	2.57193	2.572
19 Carbazole	167		9.169	9.166	(1.068)	179536	2.51004	2.510
20 1-Methylphenanthrene	192		9.362	9.362	(1.091)	157458	2.44703	2.447
22 Fluoranthene	202		10.232	10.228	(1.192)	226779	2.41610	2.416
§ 21 Fluoranthene-d10	212		10.200	10.197	(1.188)	230231	2.43536	2.435
23 Pyrene	202		10.681	10.677	(0.819)	236924	2.51122	2.511
24 Benzo(a)anthracene	228		12.926	12.922	(0.991)	224203	2.45760	2.458
* 25 Chrysene-d12	240		13.043	13.042	(1.000)	158562	2.00000	
27 Chrysene	228		13.112	13.109	(1.005)	216417	2.50991	2.510
28 Benzo(b)fluoranthene	252		15.487	15.487	(0.927)	210233	2.52030	2.520
29 Benzo(k)fluoranthene	252		15.544	15.544	(0.930)	216689	2.62362	2.624
34 Benzo(e)pyrene	252		16.363	16.359	(0.979)	203390	2.53873	2.539
32 Benzo(a)pyrene	252		16.483	16.483	(0.987)	181709	2.41482	2.415
* 33 Perylene-d12	264		16.707	16.707	(1.000)	133765	2.00000	
35 Perylene	252		16.780	16.780	(1.004)	189407	2.44001	2.440
§ 36 Dibenzo(a,h)anthracene-d14	292		18.892	18.889	(1.131)	130686	2.17783	2.178
37 Indeno(1,2,3-cd)pyrene	276		18.974	18.974	(1.136)	153810	1.94033	1.940

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
38 Dibenzo(a,h)anthracene	278		18.968	18.971	(1.135)	140516	2.10476	2.105
39 Benzo(g,h,i)perylene	276		19.765	19.765	(1.183)	139215	2.16692	2.167

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 25-SEP-2018
 Lab File ID: NT818092503.D Calibration Time: 15:38
 Lab Smp Id: SGH0048-SCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180925.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	142291	7.90
10 Acenaphthene-d10	72272	36136	144544	75112	3.93
15 Phenanthrene-d10	156058	78029	312116	149693	-4.08
25 Chrysene-d12	174389	87195	348778	158562	-9.08
33 Perylene-d12	150701	75351	301402	133765	-11.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.34	3.84	4.84	4.34	0.00
10 Acenaphthene-d10	6.59	6.09	7.09	6.59	0.00
15 Phenanthrene-d10	8.58	8.08	9.08	8.58	0.04
25 Chrysene-d12	13.04	12.54	13.54	13.04	0.00
33 Perylene-d12	16.71	16.21	17.21	16.71	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.

REVIEW SUMMARY FOR FILE - NT818092503.D

Lab ID: SGH0048-SCV2

nt8.i, 20180925.b\FSIMPNA180803.m, 25-SEP-2018 11:55

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt8.i, 20180925.b\FSIMPNA180803.m, SCV.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *



INITIAL CALIBRATION CHECK EPA 8270D-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>18I0285</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble - OMMP LTM</u>
Instrument ID: <u>NT8</u>	Calibration: <u>BH00016</u>
Lab File ID: <u>NT818092702.D</u>	Calibration Date: <u>08/03/18 10:00</u>
Sequence: <u>SGI0437</u>	Injection Date: <u>09/27/18</u>
Lab Sample ID: <u>SGI0437-ICV1</u>	Injection Time: <u>10:58</u>
Sequence Name: <u>Initial Cal Verification</u>	

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	2.5000	2.77	1.0900290	1.2056480		10.6	20
2-Methylnaphthalene	A	2.5000	2.75	0.6112228	0.6733704		10.2	20
1-Methylnaphthalene	A	2.5000	2.70	0.6292934	0.6800198		8.1	20
Acenaphthylene	A	2.5000	2.58	2.1213480	2.1904400		3.2	20
Acenaphthene	A	2.5000	2.53	1.4299770	1.4455810		1.1	20
Fluorene	A	2.5000	2.51	1.6406710	1.6499250		0.6	20
Phenanthrene	A	2.5000	2.62	1.0786140	1.1288830		4.7	20
Anthracene	A	2.5000	2.65	1.0560280	1.1198970		6.0	20
Fluoranthene	A	2.5000	2.61	1.2540550	1.3079880		4.3	20
Pyrene	A	2.5000	2.62	1.1900210	1.2463550		4.7	20
Benzo(a)anthracene	A	2.5000	2.60	1.1506980	1.1975770		4.1	20
Chrysene	A	2.5000	2.63	1.0875890	1.1440120		5.2	20
Benzo(b)fluoranthene	A	2.5000	2.56	1.2471990	1.2758090		2.3	20
Benzo(k)fluoranthene	A	2.5000	2.52	1.2348750	1.2448160		0.8	20
Benzo(j)fluoranthene	A	2.5000	2.49	1.1705280	1.1669390		-0.3	20
Benzofluoranthenes, Total	A	7.5000	7.65	1.2105010	1.2346180		2.0	20
Benzo(a)pyrene	A	2.5000	2.57	1.1250670	1.1568360		2.8	20
Indeno(1,2,3-cd)pyrene	A	2.5000	2.76	1.1852110	1.3082510		10.4	20
Dibenzo(a,h)anthracene	A	2.5000	2.86	0.9981843	1.1431650		14.5	20
Benzo(g,h,i)perylene	A	2.5000	2.92	0.9864594	1.1292520		16.8	20
2-Methylnaphthalene-d10	A	2.5000	2.69	0.7073031	0.7610589		7.6	20
Dibenzo[a,h]anthracene-d14	A	2.5000	2.89	0.8972069	1.0356960		15.4	20
Fluoranthene-d10	A	2.5000	2.59	1.2630740	1.3079930		3.6	

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20180927.b\NT818092702.D

Date: 27-SEP-2018 10:58

Client ID:

Sample Info: ICW180927

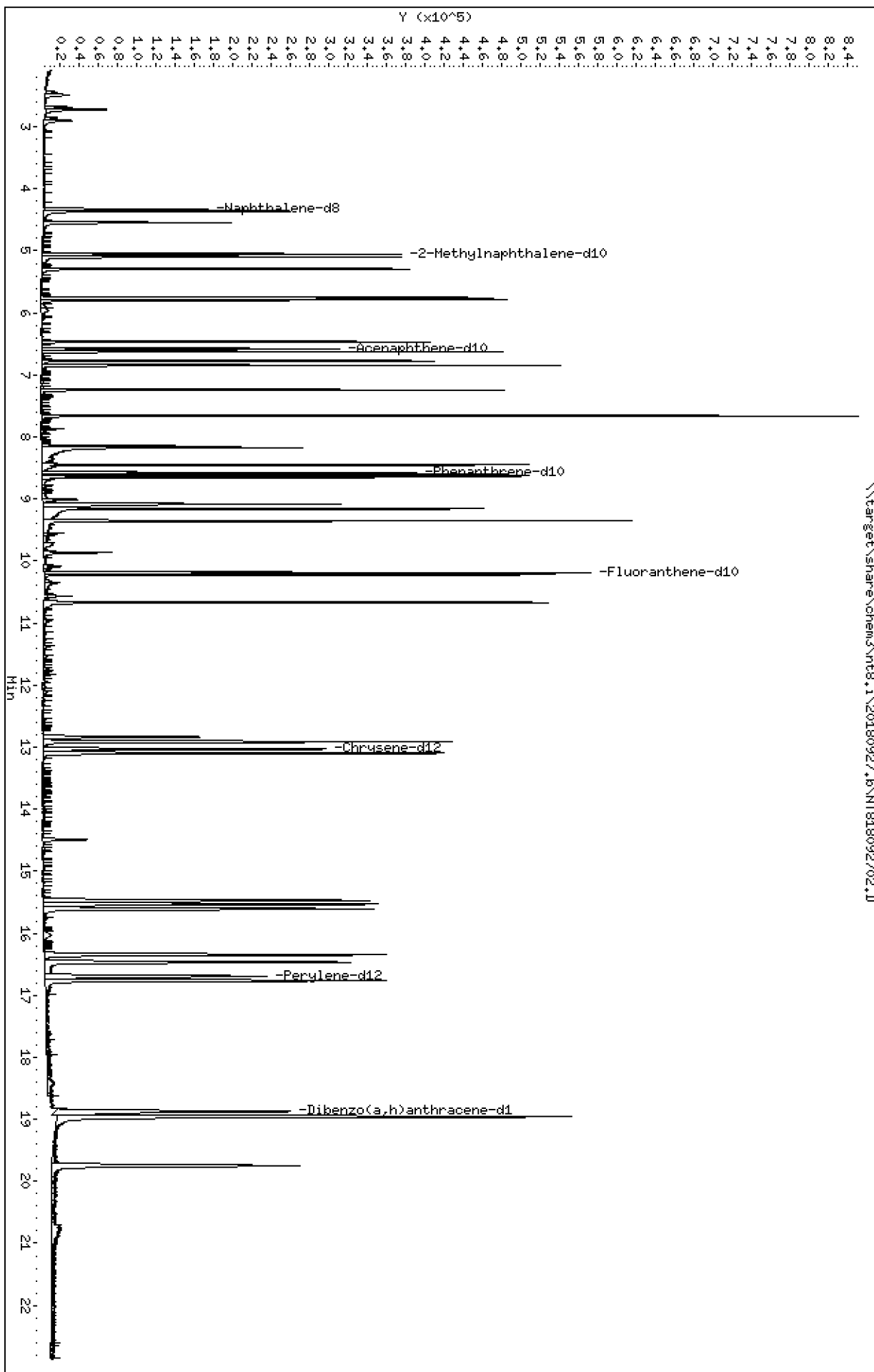
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20180927.b\NT818092702.D
 Lab Smp Id: SGI0437-ICV1
 Inj Date : 27-SEP-2018 10:58
 Operator : JZ Inst ID: nt8.i
 Smp Info : ICV180927
 Misc Info : 18-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Meth Date : 27-Sep-2018 14:12 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
* 1 Naphthalene-d8	136		4.331	4.331	(1.000)	157366	2.00000	
2 Naphthalene	128		4.360	4.360	(1.007)	237160	2.50000	2.765
\$ 3 2-Methylnaphthalene-d10	152		5.052	5.052	(1.166)	149706	2.50000	2.690
4 2-Methylnaphthalene	141		5.097	5.097	(1.177)	132457	2.50000	2.754
5 1-methylnaphthalene	141		5.290	5.290	(1.221)	133765	2.50000	2.702
6 2-Chloronaphthalene	162		5.770	5.770	(1.332)	133586	2.50000	2.589
7 Biphenyl	154		5.754	5.754	(0.875)	190923	2.50000	2.593
8 2,6-Dimethylnaphthalene	156		5.789	5.789	(0.880)	140088	2.50000	2.618
9 Acenaphthylene	152		6.466	6.466	(0.983)	230166	2.50000	2.581
* 10 Acenaphthene-d10	164		6.576	6.576	(1.000)	84062	2.00000	
11 Acenaphthene	153		6.624	6.624	(1.007)	151898	2.50000	2.527
12 Dibenzofuran	168		6.772	6.772	(1.030)	214077	2.50000	2.571
13 1,6,7-Trimethylnaphthalene	170		6.845	6.845	(1.041)	140029	2.50000	2.594
14 Fluorene	166		7.244	7.244	(1.101)	173370	2.50000	2.514
18 Dibenzothiophene	184		8.452	8.452	(0.986)	236956	2.50000	2.673
* 15 Phenanthrene-d10	188		8.575	8.575	(1.000)	172623	2.00000	
16 Phenanthrene	178		8.610	8.610	(1.004)	243589	2.50000	2.617
17 Anthracene	178		8.648	8.648	(1.008)	241650	2.50000	2.651
19 Carbazole	167		9.160	9.160	(1.068)	226472	2.50000	2.746
20 1-Methylphenanthrene	192		9.353	9.353	(1.091)	197660	2.50000	2.664
22 Fluoranthene	202		10.222	10.222	(1.192)	282236	2.50000	2.608
\$ 21 Fluoranthene-d10	212		10.187	10.187	(1.188)	282237	2.50000	2.589
23 Pyrene	202		10.668	10.668	(0.819)	298622	2.50000	2.618
24 Benzo(a)anthracene	228		12.913	12.913	(0.991)	286935	2.50000	2.602
* 25 Chrysene-d12	240		13.027	13.027	(1.000)	191677	2.00000	
27 Chrysene	228		13.096	13.096	(1.005)	274101	2.50000	2.630
28 Benzo(b)fluoranthene	252		15.474	15.474	(0.927)	289674	2.50000	2.557
29 Benzo(k)fluoranthene	252		15.531	15.531	(0.930)	282637	2.50000	2.520
30 Benzo(j)fluoranthene	252		15.604	15.604	(0.935)	264955	2.50000	2.492
31 Total Benzofluoranthenes	252		15.531	15.531	(0.930)	840965	7.50000	7.649 (M)
34 Benzo(e)pyrene	252		16.347	16.347	(0.979)	281943	2.50000	2.592
32 Benzo(a)pyrene	252		16.464	16.464	(0.986)	262661	2.50000	2.571
* 33 Perylene-d12	264		16.695	16.695	(1.000)	181641	2.00000	

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
35 Perylene	252	16.764	16.764	(1.004)	270993	2.50000	2.571	
\$ 36 Dibenzo(a,h)anthracene-d14	292	18.873	18.873	(1.130)	235156	2.50000	2.886	
37 Indeno(1,2,3-cd)pyrene	276	18.959	18.959	(1.136)	297040	2.50000	2.760	
38 Dibenzo(a,h)anthracene	278	18.956	18.956	(1.135)	259557	2.50000	2.863	
39 Benzo(g,h,i)perylene	276	19.749	19.749	(1.183)	256398	2.50000	2.921	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 26-SEP-2018
 Lab File ID: NT818092702.D Calibration Time: 14:33
 Lab Smp Id: SGI0437-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20180927.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	157366	19.33
10 Acenaphthene-d10	72272	36136	144544	84062	16.31
15 Phenanthrene-d10	156058	78029	312116	172623	10.61
25 Chrysene-d12	174389	87195	348778	191677	9.91
33 Perylene-d12	150701	75351	301402	181641	20.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.33	3.83	4.83	4.33	0.00
10 Acenaphthene-d10	6.58	6.08	7.08	6.58	0.00
15 Phenanthrene-d10	8.58	8.08	9.08	8.58	0.00
25 Chrysene-d12	13.03	12.53	13.53	13.03	0.00
33 Perylene-d12	16.70	16.20	17.20	16.70	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.

cgal: //target/share/chem3/nt8.i/20180927.b/NT818092702.D
REVIEW SUMMARY FOR FILE - NT818092702.D

Lab ID: SGI0437-ICV1
nt8.i, 20180927.b\FSIMPNA180803.m, 27-SEP-2018 10:58

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Cgal file.

On Column LOD for nt8.i, 20180927.b\FSIMPNA180803.m, FSIMPNAICL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

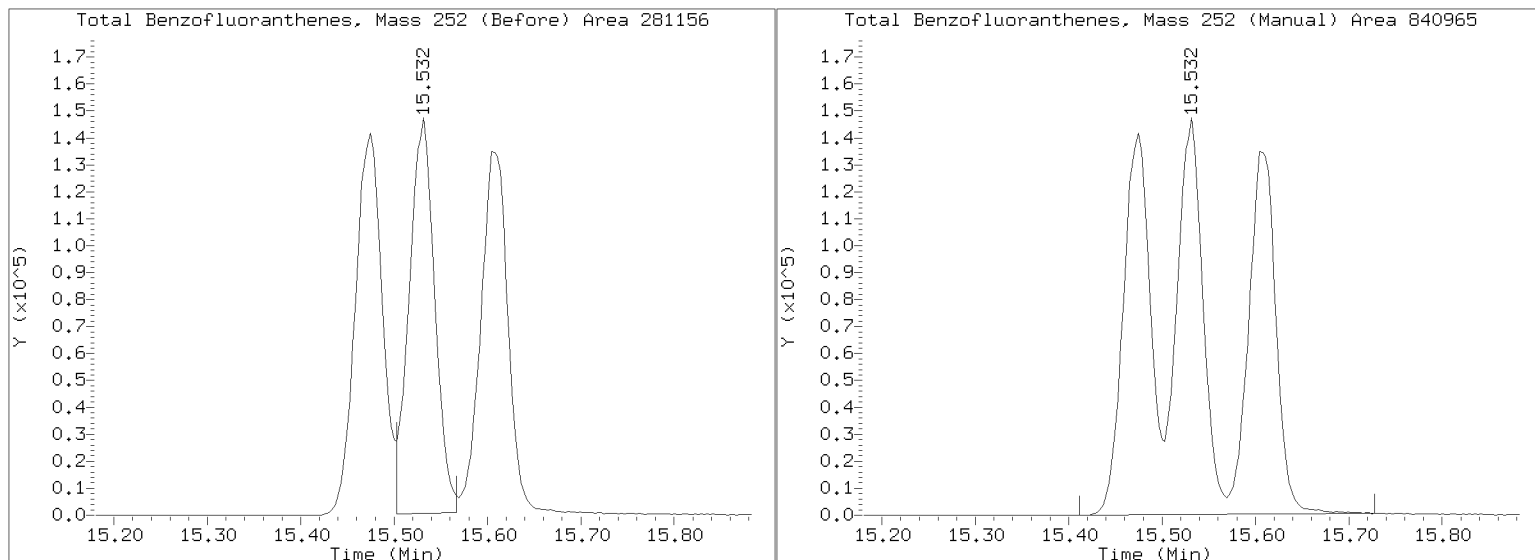
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20180927.b/NT818092702.D

Injection Date: 27-SEP-2018 10:58

Lab ID:SGI0437-ICV1 Client ID:

Report Date: 09/27/2018 14:12



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180927.b

Instrument: nt8.i Date: 27-SEP-2018 Method: 20180927.b\FSIMPNA180803.m

INITIAL CAL: 03-AUG-2018

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT818092702.D 27-SEP-2018 10:58

Compound	%D

NO Q-FLAGS	



INITIAL CALIBRATION CHECK EPA 8270D-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>18I0285</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble - OMMP LTM</u>
Instrument ID: <u>NT8</u>	Calibration: <u>BH00016</u>
Lab File ID: <u>NT818100302.D</u>	Calibration Date: <u>08/03/18 10:00</u>
Sequence: <u>SGJ0048</u>	Injection Date: <u>10/03/18</u>
Lab Sample ID: <u>SGJ0048-ICV1</u>	Injection Time: <u>11:20</u>
Sequence Name: <u>Initial Cal Verification</u>	

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	2.5000	2.75	1.0900290	1.1971960		9.8	20
2-Methylnaphthalene	A	2.5000	2.77	0.6112228	0.6764020		10.7	20
1-Methylnaphthalene	A	2.5000	2.76	0.6292934	0.6944580		10.4	20
Acenaphthylene	A	2.5000	2.56	2.1213480	2.1723090		2.4	20
Acenaphthene	A	2.5000	2.54	1.4299770	1.4498450		1.4	20
Fluorene	A	2.5000	2.46	1.6406710	1.6143710		-1.6	20
Phenanthrene	A	2.5000	2.59	1.0786140	1.1174170		3.6	20
Anthracene	A	2.5000	2.63	1.0560280	1.1116690		5.3	20
Fluoranthene	A	2.5000	2.64	1.2540550	1.3255500		5.7	20
Pyrene	A	2.5000	2.60	1.1900210	1.2397410		4.2	20
Benzo(a)anthracene	A	2.5000	2.58	1.1506980	1.1850870		3.0	20
Chrysene	A	2.5000	2.64	1.0875890	1.1490680		5.6	20
Benzo(b)fluoranthene	A	2.5000	2.56	1.2471990	1.2756400		2.3	20
Benzo(k)fluoranthene	A	2.5000	2.72	1.2348750	1.3450		8.9	20
Benzo(j)fluoranthene	A	2.5000	2.63	1.1705280	1.2325310		5.3	20
Benzofluoranthenes, Total	A	7.5000	7.89	1.2105010	1.2730180		5.2	20
Benzo(a)pyrene	A	2.5000	2.66	1.1250670	1.1946420		6.2	20
Indeno(1,2,3-cd)pyrene	A	2.5000	2.82	1.1852110	1.3356740		12.7	20
Dibenzo(a,h)anthracene	A	2.5000	2.93	0.9981843	1.1685130		17.1	20
Benzo(g,h,i)perylene	A	2.5000	2.96	0.9864594	1.1437110		18.3	20
2-Methylnaphthalene-d10	A	2.5000	2.75	0.7073031	0.7767277		9.8	20
Dibenzo[a,h]anthracene-d14	A	2.5000	2.91	0.8972069	1.0434300		16.3	20
Fluoranthene-d10	A	2.5000	2.59	1.2630740	1.3064620		3.4	20

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20181003.b\NT818100302.D

Date: 03-OCT-2018 11:20

Client ID:

Sample Info: ICV181003

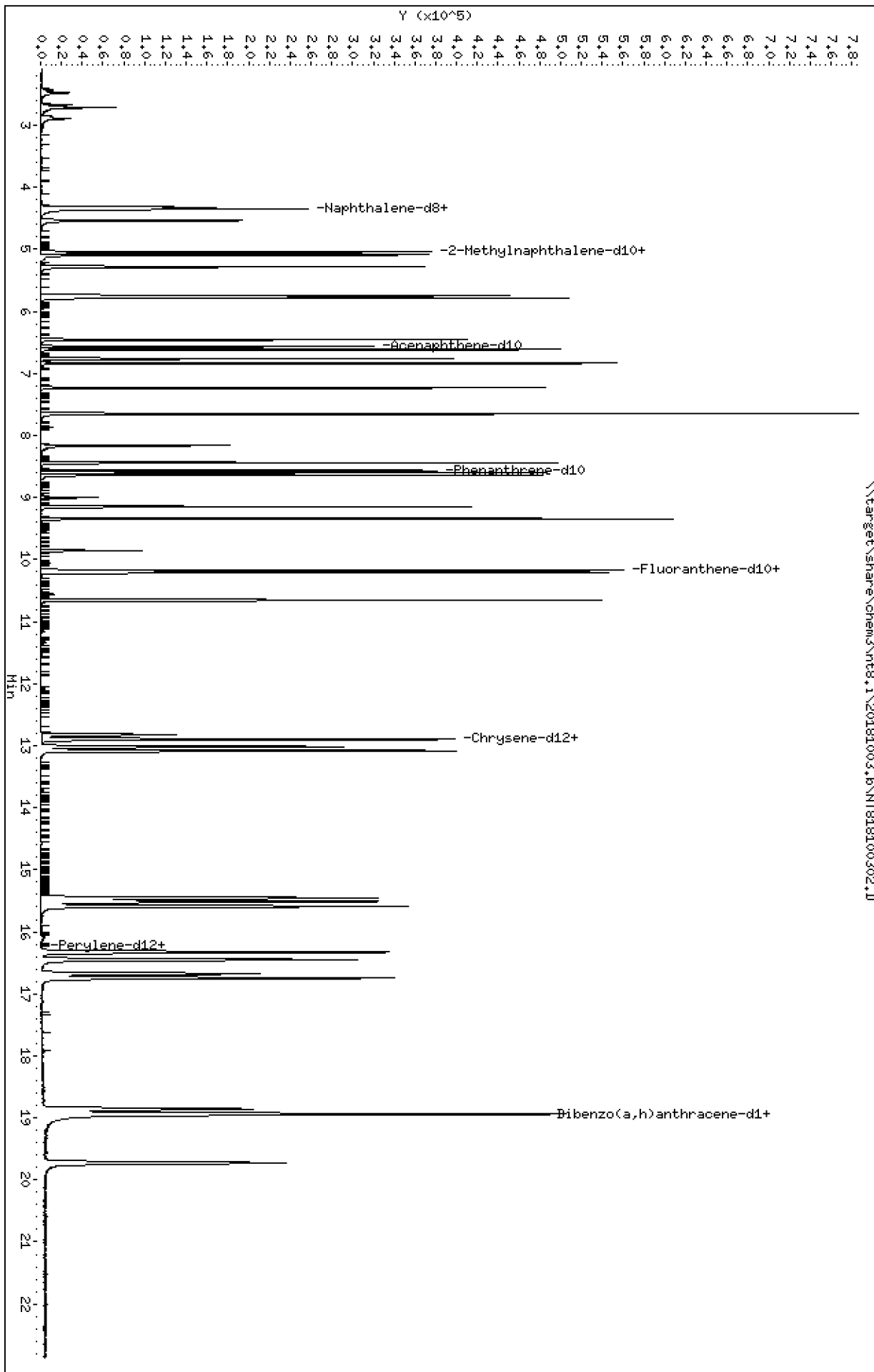
Column phase: Rxi-17s11

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20181003.b\NT818100302.D
 Lab Smp Id: SGJ0048-ICV1
 Inj Date : 03-OCT-2018 11:20
 Operator : JZ Inst ID: nt8.i
 Smp Info : ICV181003
 Misc Info : 18-
 Comment : lul Injection
 Method : \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Meth Date : 03-Oct-2018 12:11 jianqing Quant Type: ISTD
 Cal Date : 03-AUG-2018 10:49 Cal File: N818080302.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnax.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1 Naphthalene-d8	136		4.319	4.319	(1.000)	157200	2.00000	
2 Naphthalene	128		4.347	4.347	(1.007)	235249	2.50000	2.746
\$ 3 2-Methylnaphthalene-d10	152		5.040	5.040	(1.167)	152627	2.50000	2.745
4 2-Methylnaphthalene	141		5.087	5.087	(1.178)	132913	2.50000	2.767
5 1-methylnaphthalene	141		5.280	5.280	(1.223)	136461	2.50000	2.759
9 Acenaphthylene	152		6.453	6.453	(0.983)	236407	2.50000	2.560
* 10 Acenaphthene-d10	164		6.564	6.564	(1.000)	87062	2.00000	
11 Acenaphthene	153		6.614	6.614	(1.008)	157783	2.50000	2.535
12 Dibenzofuran	168		6.763	6.763	(1.030)	218524	2.50000	2.534
14 Fluorene	166		7.231	7.231	(1.102)	175688	2.50000	2.460
* 15 Phenanthrene-d10	188		8.565	8.565	(1.000)	175653	2.00000	
16 Phenanthrene	178		8.597	8.597	(1.004)	245347	2.50000	2.590
17 Anthracene	178		8.638	8.638	(1.008)	244085	2.50000	2.632
22 Fluoranthene	202		10.209	10.209	(1.192)	291046	2.50000	2.643
\$ 21 Fluoranthene-d10	212		10.178	10.178	(1.188)	286855	2.50000	2.586
23 Pyrene	202		10.655	10.655	(0.819)	300445	2.50000	2.604
24 Benzo(a)anthracene	228		12.897	12.897	(0.991)	287200	2.50000	2.575
* 25 Chrysene-d12	240		13.014	13.014	(1.000)	193876	2.00000	
27 Chrysene	228		13.080	13.080	(1.005)	278471	2.50000	2.641
28 Benzo(b)fluoranthene	252		15.458	15.458	(0.927)	280821	2.50000	2.557
29 Benzo(k)fluoranthene	252		15.515	15.515	(0.931)	296090	2.50000	2.723
30 Benzo(j)fluoranthene	252		15.591	15.591	(0.935)	271331	2.50000	2.632
31 Total Benzofluoranthenes	252		15.591	15.591	(0.935)	840731	7.50000	7.887 (M)
32 Benzo(a)pyrene	252		16.451	16.451	(0.987)	262990	2.50000	2.655
* 33 Perylene-d12	264		16.672	16.672	(1.000)	176113	2.00000	
37 Indeno(1,2,3-cd)pyrene	276		18.943	18.943	(1.136)	294037	2.50000	2.817
\$ 36 Dibenzo(a,h)anthracene-d14	292		18.861	18.861	(1.131)	229702	2.50000	2.907
38 Dibenzo(a,h)anthracene	278		18.936	18.936	(1.136)	257238	2.50000	2.927
39 Benzo(g,h,i)perylene	276		19.727	19.727	(1.183)	251778	2.50000	2.958
35 Perylene	252		16.745	16.745	(1.004)	273945	2.50000	2.680

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 02-OCT-2018
 Lab File ID: NT818100302.D Calibration Time: 11:39
 Lab Smp Id: SGJ0048-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20181003.b\FSIMPNA180803.m
 Misc Info: 18-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	131877	65939	263754	157200	19.20
10 Acenaphthene-d10	72272	36136	144544	87062	20.46
15 Phenanthrene-d10	156058	78029	312116	175653	12.56
25 Chrysene-d12	174389	87195	348778	193876	11.17
33 Perylene-d12	150701	75351	301402	176113	16.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.32	3.82	4.82	4.32	0.00
10 Acenaphthene-d10	6.56	6.06	7.06	6.56	0.00
15 Phenanthrene-d10	8.57	8.07	9.07	8.57	0.00
25 Chrysene-d12	13.01	12.51	13.51	13.01	0.00
33 Perylene-d12	16.67	16.17	17.17	16.67	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.

cgal: //target/share/chem3/nt8.i/20181003.b/NT818100302.D
REVIEW SUMMARY FOR FILE - NT818100302.D

Lab ID: SGJ0048-ICV1
nt8.i, 20181003.b\FSIMPNA180803.m, 03-OCT-2018 11:20

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Cgal file.

On Column LOD for nt8.i, 20181003.b\FSIMPNA180803.m, pmax.sub = 0.0500

Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Benzo(j)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

* Only compounds listed in the work order have been verified by the analyst *

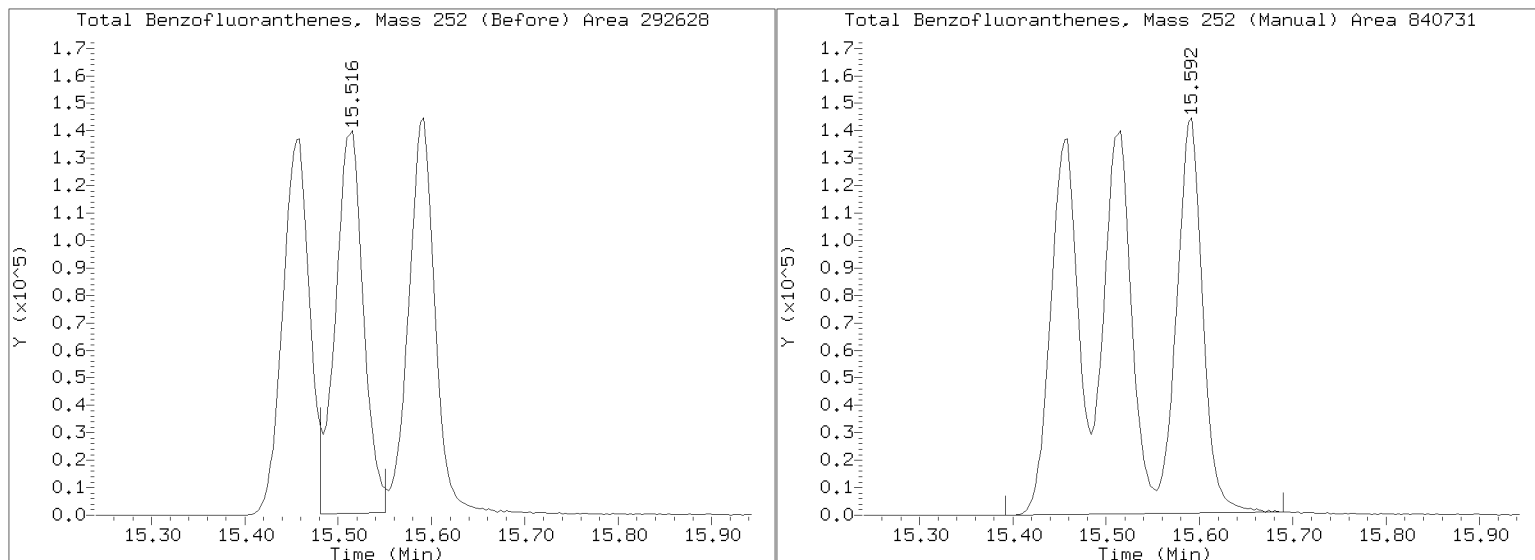
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20181003.b/NT818100302.D

Injection Date: 03-OCT-2018 11:20

Lab ID:SGJ0048-ICV1 Client ID:

Report Date: 10/03/2018 12:11



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20181003.b

Instrument: nt8.i Date: 03-OCT-2018 Method: 20181003.b\FSIMPNA180803.m

INITIAL CAL: 03-AUG-2018

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT818100302.D 03-OCT-2018 11:20

Compound	%D

NO Q-FLAGS	



ANALYSIS SEQUENCE

SGH0048

Instrument: NT8 Element Column ID: G005563
Calibration ID: BH00016 Tune File: 180627.U
EM Voltage: 1729

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SGH0048-TUN1	MS Tune	QC		1	G000074		
SGH0048-CAL1	Cal Standard	QC		2	F010860	G003194	
SGH0048-CAL2	Cal Standard	QC		3	F010861	G003194	
SGH0048-CAL3	Cal Standard	QC		4	F010862	G003194	
SGH0048-CAL4	Cal Standard	QC		5	F010863	G003194	
SGH0048-CAL5	Cal Standard	QC		6	F010864	G003194	
SGH0048-CAL6	Cal Standard	QC		7	F010865	G003194	
SGH0048-SCV1	Secondary Cal Check	QC		8	F010866	G003194	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180803.b

Time	Filename	LabID	ClientID	DF																
1	1025	N818080301.D	SGH0048-TUN1		1	NO	ISTDS	FOUND												
2	1049	N818080302.D	SGH0048-CAL1		1	4.54	140256	6.80	72828	8.80	148332	13.41	171705	17.15	152493					
3	1128	N818080303.D	SGH0048-CAL2		1	4.53	148571	6.80	79279	8.80	167576	13.41	185916	17.14	161652					
4	1155	N818080304.D	SGH0048-CAL3		1	4.53	145175	6.79	79598	8.80	170565	13.40	182649	17.14	158927					
5	1222	N818080305.D	SGH0048-CAL4		1	4.53	131877	6.79	72272	8.80	156058	13.40	174389	17.14	150701					
6	1249	N818080306.D	SGH0048-CAL5		1	4.53	124846	6.79	68922	8.80	148603	13.40	166983	17.14	146061					
7	1316	N818080307.D	SGH0048-CAL6		1	4.53	126746	6.79	68539	8.80	146496	13.40	165984	17.14	150970					
8	1352	N818080308.D	SGH0048-SCV1		1	4.53	122601	6.80	67009	8.80	144893	13.41	160930	17.14	139981					

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180803.b

ARI Job No.: SGH0 Method: FSIMPNA180803.m Instrument: nt8.i Date: 03-AUG-2018

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1049	N818080302.D	SGH0048-CAL1		1	Total Benzo(a,h)anthracene-d14,
1128	N818080303.D	SGH0048-CAL2		1	Total Benzo(a,h)anthracene-d14,
1155	N818080304.D	SGH0048-CAL3		1	Total Benzo(a,h)anthracene-d14,
1222	N818080305.D	SGH0048-CAL4		1	Total Benzo(a,h)anthracene-d14,
1249	N818080306.D	SGH0048-CAL5		1	Total Benzo(a,h)anthracene-d14,
1316	N818080307.D	SGH0048-CAL6		1	Total Benzo(a,h)anthracene-d14,
1352	N818080308.D	SGH0048-SCV1		1	Total Benzo(a,h)anthracene-d14,

Security Status Report

Date: 03-Aug-2018 16:12

N818080301.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080302.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080303.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080304.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080305.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080306.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080307.D	Data Locked	jiangqing,	03-Aug-2018	16:12
N818080308.D	Data Locked	jiangqing,	03-Aug-2018	16:12



ANALYSIS SEQUENCE

SGH0048

Instrument: NT8 Element Column ID: G005563 No second source available during the curve time. STD F010642 (made by Van Spohn) used for SCV1. New STD
 Calibration ID: BH00016 Tune File: 180627.U ordered on the next day and received on 8/25/18. SCV2 was run on 9/25/18 with new STD (G007678).
 EM Voltage: 1729

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SGH0048-TUN1	MS Tune	QC		1	G000074		
SGH0048-CAL1	Cal Standard	QC		2	F010860	G003194	
SGH0048-CAL2	Cal Standard	QC		3	F010861	G003194	
SGH0048-CAL3	Cal Standard	QC		4	F010862	G003194	
SGH0048-CAL4	Cal Standard	QC		5	F010863	G003194	
SGH0048-CAL5	Cal Standard	QC		6	F010864	G003194	
SGH0048-CAL6	Cal Standard	QC		7	F010865	G003194	
SGH0048-SCV1	Secondary Cal Check	QC		8	F010866	G003194	
SGH0048-SCV2	Secondary Cal Check	QC		9	G008697	G008519	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180925.b

Time	Filename	LabID	ClientID	DF															
1	NT818092501.D	DFTPP180925		1	NO	ISTDS	FOUND												
2	NT818092502.D	ICV180925		1	4.34	153192	6.58	82824	8.58	171007	13.04	184518	16.70	165233					
3	NT818092503.D	SGH0048-SCV2		1	4.34	142291	6.59	75112	8.58	149693	13.04	158562	16.71	133765					

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180925.b

ARI Job No.: ICV1 Method: FSIMPNA180803.m Instrument: nt8.i Date: 25-SEP-2018

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1117	NT818092502.D	ICV180925		1	Total Benzofluoranthenes,
1155	NT818092503.D	SGH0048-SCV2		1	NO MANUAL INTEGRATION

Security Status Report

Date: 27-Sep-2018 14:50

NT818092501.D	Data Locked	jiangqing, 27-Sep-2018 14:50
NT818092502.D	Data Locked	jiangqing, 27-Sep-2018 14:50
NT818092503.D	Data Locked	jiangqing, 27-Sep-2018 14:50



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Sequence: SGI0437

Instrument: NT8

Calibration: BH00016

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SGI0437-TUN1	NT818092701.D	NA	09/27/18 10:41
Initial Cal Verification	SGI0437-ICV1	NT818092702.D	NA	09/27/18 10:58
Blank	BGI0618-BLK1	NT818092703.D	Water	09/27/18 13:09
LCS	BGI0618-BS1	NT818092704.D	Water	09/27/18 13:35
LCS Dup	BGI0618-BSD1	NT818092705.D	Water	09/27/18 14:02
PGLTM-RB-180919	18I0285-38	NT818092706.D	Water	09/27/18 14:29
ZZZZZ	BGI0615-BLK1	NT818092707.D	Solid	09/27/18 14:56
ZZZZZ	BGI0615-BS1	NT818092708.D	Solid	09/27/18 15:23
ZZZZZ	18I0272-08	NT818092709.D	Solid	09/27/18 15:50
ZZZZZ	18I0272-08RE1	NT818092710.D	Solid	09/27/18 16:23
Calibration Check	SGI0437-CCV1	NT818092711.D	NA	09/27/18 16:50

Port Gamble - OMMP LTM

18I0285

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	Solid	EPA 8270D-SIM
8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	Water	EPA 8270D-SIM

Checklist for SEQUENCE SGI0437

Checklist: Analyst Checklist-SVOA(rev3)

# Checklist Item	Response	Analyst Initials	Date
1 DFTPP abundance and time criteria met	YES	JZ	09/27/2018
2 DDT Breakdown <20% and Peak Tailing <=2	YES	JZ	09/27/2018
3 Narrate all Internal Standard areas not within 50-200% for all affected Workorders	NA	JZ	09/27/2018
4 Retention times within windows and Coelution summary checked for all Workorders	YES	JZ	09/27/2018
5 Manual Integrations were applied as per SOP 1021s.	YES	JZ	09/27/2018
6 Narrate any Workorders where the Project specific requirements have not been met	NA	JZ	09/27/2018
7 Narrate samples per Workorder that will require more than one analysis to be reported due to dilutions or re-analysis	NA	JZ	09/27/2018
8 Verify that all samples requiring a dilution or re-analysis have been added to another batch or sequence	NA	JZ	09/27/2018
9 Extraction basis, cleanups, and total solids are correctly entered	YES	JZ	09/27/2018
10 An extract dilution bench sheet is attached to the sequence for all dilutions performed	YES	JZ	09/27/2018
11 AUTOCHECK: Blank checked for exceedence of criteria	YES *	JZ	09/27/2018
12 AUTOCHECK: Check blank spike recovery	YES *	JZ	09/27/2018
13 AUTOCHECK: Check blank spike/blank spike duplicate RPD. If exceeded include outliers in exception report.	NO *	JZ	09/27/2018
Comments: <i>LCS Duplicate RPD for Dibenzo(a,h)anthracene (32.7%) was above the acceptance limit (30) in BGI0618-BSD1 for 8270D-SIM PAH (0.1 ug/L or 5 ug/kg)</i> <i>- Flagged value is not within established control limits.</i>			
14 AUTOCHECK: Compounds in method designated as blank spike compounds are present	YES *	JZ	09/27/2018
15 AUTOCHECK: Check %RPD between sample and sample duplicate	NA *	JZ	09/27/2018
16 AUTOCHECK: Matrix spike recoveries within limits	NA *	JZ	09/27/2018
17 AUTOCHECK: Matrix spike/matrix spike duplicate RPD within limits	NA *	JZ	09/27/2018
18 AUTOCHECK: List of compounds listed as spiked are present	NA *	JZ	09/27/2018
19 AUTOCHECK: Check SRM limits for exceedance	NA *	JZ	09/27/2018
20 AUTOCHECK: Check Surrogate recoveries	YES *	JZ	09/27/2018
21 AUTOCHECK: Checks Surrogate spike list against Analysis	YES *	JZ	09/27/2018
22 Data locked, checklist completed and status is analyzed (REVIEWER)	YES	BB	09/27/2018
23 Color warnings have been addressed, narrated and (or) qualified (REVIEWER)	YES	BB	09/27/2018

* = Indicates Automated Response from Element DataSyst

Port Gamble - OMMP LTM

18I0285

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	Solid	EPA 8270D-SIM
8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	Water	EPA 8270D-SIM

Checklist for SEQUENCE SGI0437

Checklist: Analyst Checklist-SVOA(rev3)

<u># Checklist Item</u>	<u>Response</u>	<u>Analyst Initials</u>	<u>Date</u>
24 rev_DilutionCheck.rpt and rev_DilutionCheck.exe was run to verify multiple sample results are consistent (REVIEWER)	NA	BB	09/27/2018
25 List of samples or QC in this sequence that will require additional runs-verify reshot created (ANALYST)	NA	BB	09/27/2018
26 List of samples or QC in this sequence that are re-analysis or dilutions of samples (ANALYST)	NA	BB	09/27/2018
27 Additional Notes (ANALYST and REVIEWER)	NO	JZ	09/27/2018
Comments: <i>Batch BGI0618 & BGI0615.</i>			



ANALYSIS SEQUENCE

SGI0437

Instrument: NT8 Element Column ID: G005563
 Calibration ID: BH00016 Tune File: 180627.U
 EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SGI0437-TUN1	MS Tune	QC		1	G000074		
SGI0437-ICV1	Initial Cal Verification	QC		2	F010863	G008519	
BGI0618-BLK1	Blank	QC		3		G008519	
BGI0618-BS1	LCS	QC		4		G008519	
BGI0618-BSD1	LCS Dup	QC		5		G008519	
1810285-38	PGLTM-RB-180919	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	C 01	6		G008519	
BGI0615-BLK1	Blank	QC		7		G008519	
BGI0615-BS1	LCS	QC		8		G008519	
1810272-08	18091502	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	9		G008519	
1810272-08RE1	18091502	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	10		G008519	Added 9/27/2018 by JZ
SGI0437-CCV1	Calibration Check	QC		11	F010863	G008519	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180927.b

Time	Filename	LabID	ClientID	DF																
1	1041	NT818092701.D	SGI0437-TUN1	1	NO	ISTDS	FOUND													
2	1058	NT818092702.D	SGI0437-ICV1	1	4.33	157366	6.58	84062	8.58	172623	13.03	191677	16.70	181641						
3	1309	NT818092703.D	BGI0618-BLK1	1	4.32	156625	6.57	83516	8.57	164302	13.03	177988	16.69	164634						
4	1335	NT818092704.D	BGI0618-BS1	1	4.32	147624	6.57	76366	8.57	151131	13.02	162000	16.69	104544						
5	1402	NT818092705.D	BGI0618-BSD1	1	4.33	144460	6.57	75721	8.57	150926	13.03	162139	16.69	106116						
6	1429	NT818092706.D	18I0285-38	1	4.32	147787	6.57	77971	8.57	152913	13.02	161260	16.69	111034						
7	1456	NT818092707.D	BGI0615-BLK1	1	4.32	143946	6.57	75663	8.57	151407	13.02	160344	16.69	150103						
8	1523	NT818092708.D	BGI0615-BS1	1	4.32	147534	6.57	78097	8.57	155279	13.03	168063	16.69	157715						
9	1550	NT818092709.D	18I0272-08	3	4.33	152118	6.57	80684	8.58	159010	13.05	176344	16.71	179217						
10	1623	NT818092710.D	18I0272-08RE1	30	4.33	146202	6.58	79316	8.58	155653	13.03	166386	16.70	161440						
11	1650	NT818092711.D	SGI0437-CCV1	1	4.33	148835	6.57	79237	8.57	164143	13.03	177343	16.70	166219						

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20180927.b

ARI Job No.: SGI0 Method: FSIMPNA180803.m Instrument: nt8.i Date: 27-SEP-2018

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1058	NT818092702.D	SGI0437-ICV1		1	Total Benzofluoranthenes,
1309	NT818092703.D	BGI0618-BLKI		1	NO MANUAL INTEGRATION
1335	NT818092704.D	BGI0618-BS1		1	Total Benzofluoranthenes,
1402	NT818092705.D	BGI0618-BSDI		1	Total Benzofluoranthenes,
1429	NT818092706.D	18I0285-38		1	NO MANUAL INTEGRATION
1456	NT818092707.D	BGI0615-BLKI		1	NO MANUAL INTEGRATION
1523	NT818092708.D	BGI0615-BS1		1	Total Benzofluoranthenes,
1550	NT818092709.D	18I0272-08		3	Total Benzofluoranthenes,
1623	NT818092710.D	18I0272-08RE1		30	Total Benzofluoranthenes, Dibenzo(a,h)anthracene-dl4,
1650	NT818092711.D	SGI0437-CCV1		1	Total Benzofluoranthenes,

Security Status Report

Date: 28-Sep-2018 10:22

NT818092701.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092702.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092703.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092704.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092705.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092706.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092707.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092708.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092709.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092710.D	Data Locked	jiangqing,	28-Sep-2018	10:21
NT818092711.D	Data Locked	jiangqing,	28-Sep-2018	10:21



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Extract Dilution Bench Sheet

Sequence: SGZ20437
Analyst: AB Date: 9/27/18

Sample ID	Primary Dilution			Secondary Dilution		
	Extract Volume (uL)	Diluent ID	Dilution Factor	Extract Volume (uL)	Diluent ID	Dilution Factor
18J0272-08	100	G008047	3			
18J0272-08 RE 1	10	↓	30			



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Sequence: SGJ0048

Instrument: NT8

Calibration: BH00016

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SGJ0048-TUN1	NT818100301.D	NA	10/03/18 11:07
Initial Cal Verification	SGJ0048-ICV1	NT818100302.D	NA	10/03/18 11:20
Blank	BGI0708-BLK1	NT818100303.D	Solid	10/03/18 11:53
LCS	BGI0708-BS1	NT818100304.D	Solid	10/03/18 12:20
Reference	BGI0708-SRM1	NT818100305.D	Solid	10/03/18 12:47
SMA1A-IT-0-10-Comp-180917	18I0285-01	NT818100307.D	Solid	10/03/18 13:48
SMA1-ST-0-10-Comp-180917	18I0285-02	NT818100308.D	Solid	10/03/18 14:14
SMA2A-IT-0-10-Comp-180919	18I0285-03	NT818100309.D	Solid	10/03/18 14:41
SMA2A-IT-0-10-Comp-180919	BGI0708-MS1	NT818100310.D	Solid	10/03/18 15:08
SMA2A-IT-0-10-Comp-180919	BGI0708-MSD1	NT818100311.D	Solid	10/03/18 15:35
SMA2A-ST-0-10-Comp-180918	18I0285-04	NT818100312.D	Solid	10/03/18 16:02
SMA2B-IT-0-10-Comp-180918	18I0285-05	NT818100313.D	Solid	10/03/18 16:29
SMA2B-ST-0-10-Comp-180918	18I0285-06	NT818100314.D	Solid	10/03/18 16:56
SMA102B-ST-0-10-Comp-180918	18I0285-37	NT818100315.D	Solid	10/03/18 17:22
SMA1-ST-0-10-Comp-180917	18I0285-02RE1	NT818100316.D	Solid	10/03/18 17:49
Calibration Check	SGJ0048-CCV1	NT818100317.D	NA	10/03/18 18:34

Port Gamble - OMMP LTM

18I0285

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	Solid	EPA 8270D-SIM
8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	Water	EPA 8270D-SIM

Checklist for SEQUENCE SGJ0048

Checklist: Analyst Checklist-SVOA(rev3)

# Checklist Item	Response	Analyst Initials	Date
1 DFTPP abundance and time criteria met	YES	JZ	10/03/2018
2 DDT Breakdown <20% and Peak Tailing <=2	YES	JZ	10/03/2018
3 Narrate all Internal Standard areas not within 50-200% for all affected Workorders	NA	JZ	10/03/2018
4 Retention times within windows and Coelution summary checked for all Workorders	YES	JZ	10/03/2018
5 Manual Integrations were applied as per SOP 1021s.	YES	JZ	10/03/2018
6 Narrate any Workorders where the Project specific requirements have not been met	NA	JZ	10/03/2018
7 Narrate samples per Workorder that will require more than one analysis to be reported due to dilutions or re-analysis	NA	JZ	10/03/2018
8 Verify that all samples requiring a dilution or re-analysis have been added to another batch or sequence	YES	JZ	10/03/2018
9 Extraction basis, cleanups, and total solids are correctly entered	YES	JZ	10/03/2018
10 An extract dilution bench sheet is attached to the sequence for all dilutions performed	YES	JZ	10/03/2018
11 AUTOCHECK: Blank checked for exceedance of criteria Comments: <i>No blanks were analyzed.</i>	NR *	JZ	10/03/2018
12 AUTOCHECK: Check blank spike recovery	NA *	JZ	10/03/2018
13 AUTOCHECK: Check blank spike/blank spike duplicate RPD. If exceeded include outliers in exception report.	NA *	JZ	10/03/2018
14 AUTOCHECK: Compounds in method designated as blank spike compounds are present	NA *	JZ	10/03/2018
15 AUTOCHECK: Check %RPD between sample and sample duplicate	NA *	JZ	10/03/2018
16 AUTOCHECK: Matrix spike recoveries within limits	NA *	JZ	10/03/2018
17 AUTOCHECK: Matrix spike/matrix spike duplicate RPD within limits	NA *	JZ	10/03/2018
18 AUTOCHECK: List of compounds listed as spiked are present	NA *	JZ	10/03/2018
19 AUTOCHECK: Check SRM limits for exceedance	NA *	JZ	10/03/2018
20 AUTOCHECK: Check Surrogate recoveries	YES *	JZ	10/03/2018
21 AUTOCHECK: Checks Surrogate spike list against Analysis	YES *	JZ	10/03/2018
22 Data locked, checklist completed and status is analyzed (REVIEWER)	YES	MW	10/10/2018
23 Color warnings have been addressed, narrated and (or) qualified (REVIEWER)	YES	MW	10/10/2018
24 rev_DilutionCheck.rpt and rev_DilutionCheck.exe was run to verify multiple sample results are consistent (REVIEWER)	YES	MW	10/10/2018

* = Indicates Automated Response from Element DataSyst

Port Gamble - OMMP LTM

18I0285

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	Solid	EPA 8270D-SIM
8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	Water	EPA 8270D-SIM

Checklist for SEQUENCE SGJ0048

Checklist: Analyst Checklist-SVOA(rev3)

<u># Checklist Item</u>	<u>Response</u>	<u>Analyst Initials</u>	<u>Date</u>
25 List of samples or QC in this sequence that will require additional runs-verify reshot created (ANALYST)			12/30/1899
26 List of samples or QC in this sequence that are re-analysis or dilutions of samples (ANALYST)			12/30/1899
27 Additional Notes (ANALYST and REVIEWER) Comments: <i>Batch BGI0708.</i>	NO	JZ	10/03/2018



ANALYSIS SEQUENCE

SGJ0048

Instrument: NT8 Element Column ID: G005563
 Calibration ID: BH00016 Tune File: 180627.U
 EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SGJ0048-TUN1	MS Tune	QC		1	G000074		
SGJ0048-ICV1	Initial Cal Verification	QC		2	F010863	G008519	
BGI0708-BLK1	Blank	QC		3		G008519	
BGI0708-BS1	LCS	QC		4		G008519	
BGI0708-SRM1	Reference	QC		5		G008519	
1810285-01	SMA1A-IT-0-10-Comp-180917	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	6		G008519	SRM
1810285-02	SMA1-ST-0-10-Comp-180917	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	7		G008519	SRM
1810285-02RE1	SMA1-ST-0-10-Comp-180917	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	8		G008519	Added 10/3/2018 by JZ
1810285-03	SMA2A-IT-0-10-Comp-180919	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	9		G008519	SRM
BGI0708-MS1	Matrix Spike	QC		10		G008519	
BGI0708-MSD1	Matrix Spike Dup	QC		11		G008519	
1810285-04	SMA2A-ST-0-10-Comp-180918	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	12		G008519	SRM
1810285-05	SMA2B-IT-0-10-Comp-180918	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	13		G008519	SRM
1810285-06	SMA2B-ST-0-10-Comp-180918	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	14		G008519	SRM
1810285-37	MA102B-ST-0-10-Comp-18091	8270D-SIM PAH (0.1 ug/L or 5 ug/kg)	A 01	15		G008519	SRM
SGJ0048-CCV1	Calibration Check	QC		16	F010863	G008519	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20181003.b

Time	Filename	LabID	ClientId	DF	1 NO ISTDs FOUND											
1	1107	NT818100301.D	SGJ0048-TUN1	1	4.32	157200	6.56	87062	8.57	175653	13.01	193876	16.67	176113		
2	1120	NT818100302.D	SGJ0048-ICV1	1	4.31	137283	6.57	72422	8.57	140900	13.02	155075	16.67	143261		
3	1153	NT818100303.D	BGI0708-BLK1	1	4.31	147767	6.56	76745	8.56	152634	13.01	167374	16.67	156442		
4	1220	NT818100304.D	BGI0708-RS1	1	4.31	144754	6.56	78207	8.56	151282	13.01	164809	16.67	155373		
5	1247	NT818100305.D	BGI0708-SRM1	3	4.32	143003	6.56	76372	8.56	144618	13.01	155041	16.67	153379		
6	1314	NT818100306.D	18I0285-01	1	4.31	142221	6.57	76244	8.57	147766	13.01	158864	16.68	153854		
7	1348	NT818100307.D	18I0285-01	1	4.31	158169	6.56	82628	8.57	158309	13.02	168799	16.69	169268		
8	1414	NT818100308.D	18I0285-02	1	4.31	163763	6.56	84669	8.56	163290	13.01	178096	16.67	171309		
9	1441	NT818100309.D	18I0285-03	1	4.31	163265	6.56	84258	8.56	168228	13.01	179997	16.68	176092		
10	1508	NT818100310.D	BGI0708-MS1	1	4.31	165482	6.56	86712	8.56	169943	13.01	180806	16.67	175677		
11	1535	NT818100311.D	BGI0708-MSD1	1	4.31	154731	6.56	79668	8.56	158720	13.01	170131	16.67	165447		
12	1602	NT818100312.D	18I0285-04	1	4.31	158661	6.56	82359	8.56	162060	13.01	172589	16.67	167923		
13	1629	NT818100313.D	18I0285-05	1	4.31	169458	6.56	88890	8.56	171591	13.01	188745	16.67	178417		
14	1656	NT818100314.D	18I0285-06	1	4.31	167222	6.56	88917	8.56	169918	13.01	186413	16.67	173749		
15	1722	NT818100315.D	18I0285-37	3	4.32	159130	6.56	84759	8.56	166153	13.01	173736	16.67	172878		
16	1749	NT818100316.D	18I0285-02RE1	1	4.32	159866	6.57	87055	8.57	175903	13.01	190700	16.67	181807		
17	1834	NT818100317.D	SGJ0048-CCV1	1	4.32	159866	6.57	87055	8.57	175903	13.01	190700	16.67	181807		

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20181003.b

ARI Job No.: SGJ0 Method: FSIMPNA180803.m Instrument: nt8.i Date: 03-OCT-2018

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1120	NT818100302.D	SGJ0048-ICV1		1	Total Benzofluoranthenes,
1153	NT818100303.D	BGI0708-BLKI		1	NO MANUAL INTEGRATION
1220	NT818100304.D	BGI0708-BS1		1	Total Benzofluoranthenes,
1247	NT818100305.D	BGI0708-SRMI		1	Total Benzofluoranthenes,
1348	NT818100307.D	18I0285-01		1	Total Benzofluoranthenes,
1414	NT818100308.D	18I0285-02		1	Total Benzofluoranthenes,
1441	NT818100309.D	18I0285-03		1	Total Benzofluoranthenes,
1508	NT818100310.D	BGI0708-MS1		1	Total Benzofluoranthenes,
1535	NT818100311.D	BGI0708-MSD1		1	Total Benzofluoranthenes,
1602	NT818100312.D	18I0285-04		1	Total Benzofluoranthenes,
1629	NT818100313.D	18I0285-05		1	Indeno(1,2,3-cd)pyrene, Total Benzofluoranthenes,
1656	NT818100314.D	18I0285-06		1	Total Benzofluoranthenes,
1722	NT818100315.D	18I0285-37		1	Dibenzo(a,h)anthracene, Total Benzofluoranthenes,
1749	NT818100316.D	18I0285-02RE1		3	Total Benzofluoranthenes,
1834	NT818100317.D	SGJ0048-CCV1		1	Total Benzofluoranthenes,

Security Status Report

Date: 11-Oct-2018 12:24

NT818100301.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100302.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100303.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100304.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100305.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100307.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100308.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100309.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100310.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100311.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100312.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100313.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100314.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100315.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100316.D	Data Locked	jiangqing,	11-Oct-2018	12:24
NT818100317.D	Data Locked	jiangqing,	11-Oct-2018	12:24



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270D-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG/WO: <u>18I0285</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble - OMMP LTM</u>
Sequence: <u>SGH0048</u>	Instrument: <u>NT8</u>
Calibration: <u>BH00016</u>	Calibration Date: <u>08/03/2018</u>

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SGH0048-SCV1 (Water)		Lab File ID: N818080308.D			Analyzed: 08/03/18 13:52			
2-Methylnaphthalene-d10	2.5000	88.3	0 - 200	5.259	5.2565	0.0025	N/A	
Dibenzo[a,h]anthracene-d14	2.5000	91.0	0 - 200	19.355	19.35267	0.0023	N/A	
Fluoranthene-d10	2.5000	90.9	0 - 200	10.457	10.457	0.0000	N/A	
SGH0048-SCV2 (Water)		Lab File ID: NT818092503.D			Analyzed: 09/25/18 11:55			
2-Methylnaphthalene-d10	2.5000	99.4	0 - 200	5.062	5.2565	-0.1945	N/A	
Dibenzo[a,h]anthracene-d14	2.5000	87.1	0 - 200	18.892	19.35267	-0.4607	N/A	
Fluoranthene-d10	2.5000	97.4	0 - 200	10.2	10.457	-0.2570	N/A	



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG/WO: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Sequence: SGI0437

Instrument: NT8

Calibration: BH00016

Calibration Date: 08/03/2018

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SGI0437-ICV1 (Water)		Lab File ID: NT818092702.D			Analyzed: 09/27/18 10:58			
2-Methylnaphthalene-d10	2.5000	108	80 - 120	5.052	5.2565	-0.2045	N/A	
Dibenzo[a,h]anthracene-d14	2.5000	115	80 - 120	18.873	19.35267	-0.4797	N/A	
Fluoranthene-d10	2.5000	104	0 - 200	10.187	10.457	-0.2700	N/A	
BGI0618-BLK1 (Water)		Lab File ID: NT818092703.D			Analyzed: 09/27/18 13:09			
2-Methylnaphthalene-d10	3.0000	54.9	31 - 120	5.043	5.2565	-0.2135	N/A	
Dibenzo[a,h]anthracene-d14	3.0000	100	10 - 125	18.867	19.35267	-0.4857	N/A	
Fluoranthene-d10	3.0000	77.7	46 - 121	10.184	10.457	-0.2730	N/A	
BGI0618-BS1 (Water)		Lab File ID: NT818092704.D			Analyzed: 09/27/18 13:35			
2-Methylnaphthalene-d10	3.0000	59.5	31 - 120	5.043	5.2565	-0.2135	N/A	
Dibenzo[a,h]anthracene-d14	3.0000	69.5	10 - 125	18.87	19.35267	-0.4827	N/A	
Fluoranthene-d10	3.0000	73.3	46 - 121	10.184	10.457	-0.2730	N/A	
BGI0618-BSD1 (Water)		Lab File ID: NT818092705.D			Analyzed: 09/27/18 14:02			
2-Methylnaphthalene-d10	3.0000	55.4	31 - 120	5.046	5.2565	-0.2105	N/A	
Dibenzo[a,h]anthracene-d14	3.0000	107	10 - 125	18.87	19.35267	-0.4827	N/A	
Fluoranthene-d10	3.0000	79.8	46 - 121	10.187	10.457	-0.2700	N/A	
18I0285-38 (Water)		Lab File ID: NT818092706.D			Analyzed: 09/27/18 14:29			
2-Methylnaphthalene-d10	3.0000	56.9	31 - 120	5.043	5.2565	-0.2135	N/A	
Dibenzo[a,h]anthracene-d14	3.0000	95.1	10 - 125	18.867	19.35267	-0.4857	N/A	
Fluoranthene-d10	3.0000	70.8	46 - 121	10.187	10.457	-0.2700	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Sequence: SGJ0048
Calibration: BH00016

SDG/WO: 18I0285
Project: Port Gamble - OMMP LTM
Instrument: NT8
Calibration Date: 08/03/2018

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SGJ0048-ICV1 (Solid)			Lab File ID: NT818100302.D			Analyzed: 10/03/18 11:20		
2-Methylnaphthalene-d10	2.5000	110	80 - 120	5.04	5.2565	-0.2165	N/A	
Dibenzo[a,h]anthracene-d14	2.5000	116	80 - 120	18.861	19.35267	-0.4917	N/A	
Fluoranthene-d10	2.5000	103	80 - 120	10.178	10.457	-0.2790	N/A	
BGI0708-BLK1 (Solid)			Lab File ID: NT818100303.D			Analyzed: 10/03/18 11:53		
2-Methylnaphthalene-d10	150.00	60.7	32 - 120	5.036	5.2565	-0.2205	N/A	
Dibenzo[a,h]anthracene-d14	150.00	98.5	21 - 133	18.854	19.35267	-0.4987	N/A	
Fluoranthene-d10	150.00	78.3	36 - 134	10.181	10.457	-0.2760	N/A	
BGI0708-BS1 (Solid)			Lab File ID: NT818100304.D			Analyzed: 10/03/18 12:20		
2-Methylnaphthalene-d10	150.00	57.0	32 - 120	5.033	5.2565	-0.2235	N/A	
Dibenzo[a,h]anthracene-d14	150.00	92.9	21 - 133	18.854	19.35267	-0.4987	N/A	
Fluoranthene-d10	150.00	73.3	36 - 134	10.175	10.457	-0.2820	N/A	
BGI0708-SRM1 (Solid)			Lab File ID: NT818100305.D			Analyzed: 10/03/18 12:47		
2-Methylnaphthalene-d10	300.00	57.7	32 - 120	5.033	5.2565	-0.2235	N/A	
Dibenzo[a,h]anthracene-d14	300.00	95.1	21 - 133	18.854	19.35267	-0.4987	N/A	
Fluoranthene-d10	300.00	74.1	36 - 134	10.175	10.457	-0.2820	N/A	
18I0285-01 (Solid)			Lab File ID: NT818100307.D			Analyzed: 10/03/18 13:48		
2-Methylnaphthalene-d10	144.45	58.6	32 - 120	5.039	5.2565	-0.2175	N/A	
Dibenzo[a,h]anthracene-d14	144.45	96.6	21 - 133	18.857	19.35267	-0.4957	N/A	
Fluoranthene-d10	144.45	77.0	36 - 134	10.181	10.457	-0.2760	N/A	
18I0285-02 (Solid)			Lab File ID: NT818100308.D			Analyzed: 10/03/18 14:14		
2-Methylnaphthalene-d10	149.65	59.1	32 - 120	5.036	5.2565	-0.2205	N/A	
Dibenzo[a,h]anthracene-d14	149.65	80.0	21 - 133	18.876	19.35267	-0.4767	N/A	
Fluoranthene-d10	149.65	67.9	36 - 134	10.184	10.457	-0.2730	N/A	
18I0285-03 (Solid)			Lab File ID: NT818100309.D			Analyzed: 10/03/18 14:41		
2-Methylnaphthalene-d10	148.27	58.2	32 - 120	5.033	5.2565	-0.2235	N/A	
Dibenzo[a,h]anthracene-d14	148.27	93.8	21 - 133	18.858	19.35267	-0.4947	N/A	
Fluoranthene-d10	148.27	73.7	36 - 134	10.175	10.457	-0.2820	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Sequence: SGJ0048
Calibration: BH00016

SDG/WO: 18I0285
Project: Port Gamble - OMMP LTM
Instrument: NT8
Calibration Date: 08/03/2018

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BGI0708-MS1 (Solid)			Lab File ID: NT818100310.D			Analyzed: 10/03/18 15:08		
2-Methylnaphthalene-d10	149.26	56.0	32 - 120	5.033	5.2565	-0.2235	N/A	
Dibenzo[a,h]anthracene-d14	149.26	88.5	21 - 133	18.857	19.35267	-0.4957	N/A	
Fluoranthene-d10	149.26	70.6	36 - 134	10.175	10.457	-0.2820	N/A	
BGI0708-MSD1 (Solid)			Lab File ID: NT818100311.D			Analyzed: 10/03/18 15:35		
2-Methylnaphthalene-d10	148.40	58.4	32 - 120	5.033	5.2565	-0.2235	N/A	
Dibenzo[a,h]anthracene-d14	148.40	102	21 - 133	18.86	19.35267	-0.4927	N/A	
Fluoranthene-d10	148.40	78.5	36 - 134	10.178	10.457	-0.2790	N/A	
18I0285-04 (Solid)			Lab File ID: NT818100312.D			Analyzed: 10/03/18 16:02		
2-Methylnaphthalene-d10	149.65	53.5	32 - 120	5.033	5.2565	-0.2235	N/A	
Dibenzo[a,h]anthracene-d14	149.65	73.2	21 - 133	18.851	19.35267	-0.5017	N/A	
Fluoranthene-d10	149.65	64.1	36 - 134	10.175	10.457	-0.2820	N/A	
18I0285-05 (Solid)			Lab File ID: NT818100313.D			Analyzed: 10/03/18 16:29		
2-Methylnaphthalene-d10	144.76	60.6	32 - 120	5.033	5.2565	-0.2235	N/A	
Dibenzo[a,h]anthracene-d14	144.76	95.6	21 - 133	18.886	19.35267	-0.4667	N/A	
Fluoranthene-d10	144.76	72.0	36 - 134	10.175	10.457	-0.2820	N/A	
18I0285-06 (Solid)			Lab File ID: NT818100314.D			Analyzed: 10/03/18 16:56		
2-Methylnaphthalene-d10	147.79	55.7	32 - 120	5.033	5.2565	-0.2235	N/A	
Dibenzo[a,h]anthracene-d14	147.79	89.6	21 - 133	18.848	19.35267	-0.5047	N/A	
Fluoranthene-d10	147.79	71.1	36 - 134	10.175	10.457	-0.2820	N/A	
18I0285-37 (Solid)			Lab File ID: NT818100315.D			Analyzed: 10/03/18 17:22		
2-Methylnaphthalene-d10	147.73	54.1	32 - 120	5.033	5.2565	-0.2235	N/A	
Dibenzo[a,h]anthracene-d14	147.73	87.9	21 - 133	18.851	19.35267	-0.5017	N/A	
Fluoranthene-d10	147.73	69.1	36 - 134	10.175	10.457	-0.2820	N/A	
18I0285-02RE1 (Solid)			Lab File ID: NT818100316.D			Analyzed: 10/03/18 17:49		
2-Methylnaphthalene-d10	149.65	65.9	32 - 120	5.036	5.2565	-0.2205	N/A	
Dibenzo[a,h]anthracene-d14	149.65	84.9	21 - 133	18.857	19.35267	-0.4957	N/A	
Fluoranthene-d10	149.65	74.6	36 - 134	10.175	10.457	-0.2820	N/A	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Sequence: SGH0048

SDG: 18I0285
Project: Port Gamble - OMMP LTM
Instrument: NT8
Calibration: BH00016

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SGH0048-SCV1)		(Water)	Lab File ID: N818080308.D			Analyzed: 08/03/18 13:52			
Naphthalene-d8	122601	4.531	131877	4.528	93	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	67009	6.795	72272	6.792	93	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	144893	8.8	156058	8.797	93	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	160930	13.41	174389	13.401	92	50 - 200	-0.0090	+/-0.50	
Perylene-d12	139981	17.144	150701	17.135	93	50 - 200	-0.0090	+/-0.50	
Secondary Cal Check (SGH0048-SCV2)		(Water)	Lab File ID: NT818092503.D			Analyzed: 09/25/18 11:55			
Naphthalene-d8	142291	4.341	131877	4.528	108	50 - 200	0.1870	+/-0.50	
Acenaphthene-d10	75112	6.586	72272	6.792	104	50 - 200	0.2060	+/-0.50	
Phenanthrene-d10	149693	8.584	156058	8.797	96	50 - 200	0.2130	+/-0.50	
Chrysene-d12	158562	13.043	174389	13.401	91	50 - 200	0.3580	+/-0.50	
Perylene-d12	133765	16.707	150701	17.135	89	50 - 200	0.4280	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Sequence: SGI0437

SDG: 18I0285
Project: Port Gamble - OMMP LTM
Instrument: NT8
Calibration: BH00016

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SGI0437-ICV1)		(Water)	Lab File ID: NT818092702.D			Analyzed: 09/27/18 10:58			
Naphthalene-d8	157366	4.331	131877	4.331	119	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	84062	6.576	72272	6.576	116	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	172623	8.575	156058	8.575	111	50 - 200	0.0000	+/-0.50	
Chrysene-d12	191677	13.027	174389	13.027	110	50 - 200	0.0000	+/-0.50	
Perylene-d12	181641	16.695	150701	16.695	121	50 - 200	0.0000	+/-0.50	
Blank (BGI0618-BLK1)		(Water)	Lab File ID: NT818092703.D			Analyzed: 09/27/18 13:09			
Naphthalene-d8	156625	4.319	131877	4.331	119	50 - 200	0.0120	+/-0.50	
Acenaphthene-d10	83516	6.573	72272	6.576	116	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	164302	8.571	156058	8.575	105	50 - 200	0.0040	+/-0.50	
Chrysene-d12	177988	13.027	174389	13.027	102	50 - 200	0.0000	+/-0.50	
Perylene-d12	164634	16.685	150701	16.695	109	50 - 200	0.0100	+/-0.50	
LCS (BGI0618-BS1)		(Water)	Lab File ID: NT818092704.D			Analyzed: 09/27/18 13:35			
Naphthalene-d8	147624	4.322	131877	4.331	112	50 - 200	0.0090	+/-0.50	
Acenaphthene-d10	76366	6.573	72272	6.576	106	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	151131	8.572	156058	8.575	97	50 - 200	0.0030	+/-0.50	
Chrysene-d12	162000	13.024	174389	13.027	93	50 - 200	0.0030	+/-0.50	
Perylene-d12	104544	16.688	150701	16.695	69	50 - 200	0.0070	+/-0.50	
LCS Dup (BGI0618-BSD1)		(Water)	Lab File ID: NT818092705.D			Analyzed: 09/27/18 14:02			
Naphthalene-d8	144460	4.325	131877	4.331	110	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	75721	6.573	72272	6.576	105	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	150926	8.572	156058	8.575	97	50 - 200	0.0030	+/-0.50	
Chrysene-d12	162139	13.027	174389	13.027	93	50 - 200	0.0000	+/-0.50	
Perylene-d12	106116	16.688	150701	16.695	70	50 - 200	0.0070	+/-0.50	
PGLTM-RB-180919 (18I0285-38)		(Water)	Lab File ID: NT818092706.D			Analyzed: 09/27/18 14:29			
Naphthalene-d8	147787	4.319	131877	4.331	112	50 - 200	0.0120	+/-0.50	
Acenaphthene-d10	77971	6.573	72272	6.576	108	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	152913	8.571	156058	8.575	98	50 - 200	0.0040	+/-0.50	
Chrysene-d12	161260	13.024	174389	13.027	92	50 - 200	0.0030	+/-0.50	
Perylene-d12	111034	16.685	150701	16.695	74	50 - 200	0.0100	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Sequence: SGJ0048

SDG: 1810285
Project: Port Gamble - OMMP LTM
Instrument: NT8
Calibration: BH00016

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SGJ0048-ICV1)		(Solid)	Lab File ID: NT818100302.D			Analyzed: 10/03/18 11:20			
Naphthalene-d8	157200	4.319	131877	4.319	119	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	87062	6.564	72272	6.564	120	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	175653	8.565	156058	8.565	113	50 - 200	0.0000	+/-0.50	
Chrysene-d12	193876	13.014	174389	13.014	111	50 - 200	0.0000	+/-0.50	
Perylene-d12	176113	16.672	150701	16.672	117	50 - 200	0.0000	+/-0.50	
Blank (BGI0708-BLK1)		(Solid)	Lab File ID: NT818100303.D			Analyzed: 10/03/18 11:53			
Naphthalene-d8	137283	4.312	131877	4.319	104	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	72422	6.567	72272	6.564	100	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	140900	8.565	156058	8.565	90	50 - 200	0.0000	+/-0.50	
Chrysene-d12	155075	13.017	174389	13.014	89	50 - 200	-0.0030	+/-0.50	
Perylene-d12	143261	16.672	150701	16.672	95	50 - 200	0.0000	+/-0.50	
LCS (BGI0708-BS1)		(Solid)	Lab File ID: NT818100304.D			Analyzed: 10/03/18 12:20			
Naphthalene-d8	147767	4.306	131877	4.319	112	50 - 200	0.0130	+/-0.50	
Acenaphthene-d10	76745	6.564	72272	6.564	106	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	152634	8.562	156058	8.565	98	50 - 200	0.0030	+/-0.50	
Chrysene-d12	167374	13.008	174389	13.014	96	50 - 200	0.0060	+/-0.50	
Perylene-d12	156442	16.672	150701	16.672	104	50 - 200	0.0000	+/-0.50	
Reference (BGI0708-SRM1)		(Solid)	Lab File ID: NT818100305.D			Analyzed: 10/03/18 12:47			
Naphthalene-d8	144754	4.306	131877	4.319	110	50 - 200	0.0130	+/-0.50	
Acenaphthene-d10	78207	6.564	72272	6.564	108	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	151282	8.562	156058	8.565	97	50 - 200	0.0030	+/-0.50	
Chrysene-d12	164809	13.011	174389	13.014	95	50 - 200	0.0030	+/-0.50	
Perylene-d12	155373	16.669	150701	16.672	103	50 - 200	0.0030	+/-0.50	
SMA1A-IT-0-10-Comp-180917 (1810285-01)		(Solid)	Lab File ID: NT818100307.D			Analyzed: 10/03/18 13:48			
Naphthalene-d8	142221	4.312	131877	4.319	108	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	76244	6.567	72272	6.564	105	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	147766	8.565	156058	8.565	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12	158864	13.014	174389	13.014	91	50 - 200	0.0000	+/-0.50	
Perylene-d12	153854	16.679	150701	16.672	102	50 - 200	-0.0070	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Sequence: SGJ0048

SDG: 18I0285
Project: Port Gamble - OMMP LTM
Instrument: NT8
Calibration: BH00016

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SMA1-ST-0-10-Comp-180917 (18I0285-02)		(Solid)	Lab File ID: NT818100308.D			Analyzed: 10/03/18 14:14			
Naphthalene-d8	158169	4.312	131877	4.319	120	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	82628	6.564	72272	6.564	114	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	158309	8.565	156058	8.565	101	50 - 200	0.0000	+/-0.50	
Chrysene-d12	168799	13.023	174389	13.014	97	50 - 200	-0.0090	+/-0.50	
Perylene-d12	169268	16.685	150701	16.672	112	50 - 200	-0.0130	+/-0.50	
SMA2A-IT-0-10-Comp-180919 (18I0285-03)		(Solid)	Lab File ID: NT818100309.D			Analyzed: 10/03/18 14:41			
Naphthalene-d8	163763	4.309	131877	4.319	124	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	84669	6.564	72272	6.564	117	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	163290	8.562	156058	8.565	105	50 - 200	0.0030	+/-0.50	
Chrysene-d12	178096	13.011	174389	13.014	102	50 - 200	0.0030	+/-0.50	
Perylene-d12	171309	16.673	150701	16.672	114	50 - 200	-0.0010	+/-0.50	
Matrix Spike (BGI0708-MS1)		(Solid)	Lab File ID: NT818100310.D			Analyzed: 10/03/18 15:08			
Naphthalene-d8	163265	4.306	131877	4.319	124	50 - 200	0.0130	+/-0.50	
Acenaphthene-d10	84258	6.564	72272	6.564	117	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	168228	8.562	156058	8.565	108	50 - 200	0.0030	+/-0.50	
Chrysene-d12	179997	13.011	174389	13.014	103	50 - 200	0.0030	+/-0.50	
Perylene-d12	176092	16.676	150701	16.672	117	50 - 200	-0.0040	+/-0.50	
Matrix Spike Dup (BGI0708-MSD1)		(Solid)	Lab File ID: NT818100311.D			Analyzed: 10/03/18 15:35			
Naphthalene-d8	165492	4.309	131877	4.319	125	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	86712	6.564	72272	6.564	120	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	169943	8.562	156058	8.565	109	50 - 200	0.0030	+/-0.50	
Chrysene-d12	180806	13.014	174389	13.014	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	175677	16.672	150701	16.672	117	50 - 200	0.0000	+/-0.50	
SMA2A-ST-0-10-Comp-180918 (18I0285-04)		(Solid)	Lab File ID: NT818100312.D			Analyzed: 10/03/18 16:02			
Naphthalene-d8	154731	4.306	131877	4.319	117	50 - 200	0.0130	+/-0.50	
Acenaphthene-d10	79668	6.564	72272	6.564	110	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	158720	8.562	156058	8.565	102	50 - 200	0.0030	+/-0.50	
Chrysene-d12	170131	13.011	174389	13.014	98	50 - 200	0.0030	+/-0.50	
Perylene-d12	165447	16.669	150701	16.672	110	50 - 200	0.0030	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Sequence: SGJ0048

SDG: 18I0285
Project: Port Gamble - OMMP LTM
Instrument: NT8
Calibration: BH00016

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SMA2B-IT-0-10-Comp-180918 (18I0285-05)		(Solid)	Lab File ID: NT818100313.D			Analyzed: 10/03/18 16:29			
Naphthalene-d8	158661	4.309	131877	4.319	120	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	82359	6.564	72272	6.564	114	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	162060	8.562	156058	8.565	104	50 - 200	0.0030	+/-0.50	
Chrysene-d12	172589	13.011	174389	13.014	99	50 - 200	0.0030	+/-0.50	
Perylene-d12	167923	16.673	150701	16.672	111	50 - 200	-0.0010	+/-0.50	
SMA2B-ST-0-10-Comp-180918 (18I0285-06)		(Solid)	Lab File ID: NT818100314.D			Analyzed: 10/03/18 16:56			
Naphthalene-d8	169458	4.309	131877	4.319	128	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	88890	6.564	72272	6.564	123	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	171591	8.562	156058	8.565	110	50 - 200	0.0030	+/-0.50	
Chrysene-d12	188745	13.011	174389	13.014	108	50 - 200	0.0030	+/-0.50	
Perylene-d12	178417	16.669	150701	16.672	118	50 - 200	0.0030	+/-0.50	
SMA102B-ST-0-10-Comp-180918 (18I0285-37)		(Solid)	Lab File ID: NT818100315.D			Analyzed: 10/03/18 17:22			
Naphthalene-d8	167222	4.306	131877	4.319	127	50 - 200	0.0130	+/-0.50	
Acenaphthene-d10	88917	6.561	72272	6.564	123	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	169918	8.562	156058	8.565	109	50 - 200	0.0030	+/-0.50	
Chrysene-d12	186413	13.008	174389	13.014	107	50 - 200	0.0060	+/-0.50	
Perylene-d12	173749	16.673	150701	16.672	115	50 - 200	-0.0010	+/-0.50	
SMA1-ST-0-10-Comp-180917 (18I0285-02RE1)		(Solid)	Lab File ID: NT818100316.D			Analyzed: 10/03/18 17:49			
Naphthalene-d8	159130	4.315	131877	4.319	121	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	84759	6.564	72272	6.564	117	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	166153	8.562	156058	8.565	106	50 - 200	0.0030	+/-0.50	
Chrysene-d12	173736	13.014	174389	13.014	100	50 - 200	0.0000	+/-0.50	
Perylene-d12	172878	16.672	150701	16.672	115	50 - 200	0.0000	+/-0.50	



HOLDING TIME SUMMARY

Analysis: EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SMA1A-IT-0-10-Comp-180917 18I0285-01	09/17/18 15:10	09/19/18 17:00	09/26/18 15:45	9	14	10/03/18 13:48	7	40	
SMA1-ST-0-10-Comp-180917 18I0285-02	09/17/18 12:05	09/19/18 17:00	09/26/18 15:45	9	14	10/03/18 14:14	7	40	
SMA1-ST-0-10-Comp-180917 18I0285-02RE1	09/17/18 12:05	09/19/18 17:00	09/26/18 15:45	9	14	10/03/18 17:49	7	40	
SMA2A-IT-0-10-Comp-180919 18I0285-03	09/19/18 10:25	09/19/18 17:00	09/26/18 15:45	7	14	10/03/18 14:41	7	40	
SMA2A-ST-0-10-Comp-180918 18I0285-04	09/18/18 11:00	09/19/18 17:00	09/26/18 15:45	8	14	10/03/18 16:02	7	40	
SMA2B-IT-0-10-Comp-180918 18I0285-05	09/18/18 15:10	09/19/18 17:00	09/26/18 15:45	8	14	10/03/18 16:29	7	40	
SMA2B-ST-0-10-Comp-180918 18I0285-06	09/18/18 16:35	09/19/18 17:00	09/26/18 15:45	7	14	10/03/18 16:56	7	40	
SMA102B-ST-0-10-Comp-180918 18I0285-37	09/18/18 16:40	09/19/18 17:00	09/26/18 15:45	7	14	10/03/18 17:22	7	40	
PGLTM-RB-180919 18I0285-38	09/19/18 11:20	09/19/18 17:00	09/24/18 19:10	5	7	09/27/18 14:29	3	40	
Matrix Spike BGI0708-MS1	09/19/18 10:25	09/19/18 17:00	09/26/18 09:38	6	14	10/03/18 15:08	7	40	
Matrix Spike Dup BGI0708-MSD1	09/19/18 10:25	09/19/18 17:00	09/26/18 09:38	6	14	10/03/18 15:35	7	40	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor OEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Solid

Instrument: NT8

Analyte	MDL	RL	Units
Naphthalene	1.28	5.00	ug/kg
2-Methylnaphthalene	1.10	5.00	ug/kg
1-Methylnaphthalene	0.40	5.00	ug/kg
Acenaphthylene	1.08	5.00	ug/kg
Acenaphthene	0.57	5.00	ug/kg
Fluorene	0.63	5.00	ug/kg
Phenanthrene	0.72	5.00	ug/kg
Anthracene	0.87	5.00	ug/kg
Fluoranthene	0.47	5.00	ug/kg
Pyrene	0.63	5.00	ug/kg
Benzo(a)anthracene	0.82	5.00	ug/kg
Chrysene	1.05	5.00	ug/kg
Benzo(b)fluoranthene	1.37	5.00	ug/kg
Benzo(k)fluoranthene	0.76	5.00	ug/kg
Benzo(j)fluoranthene	0.68	5.00	ug/kg
Benzofluoranthenes, Total	3.01	10.0	ug/kg
Benzo(a)pyrene	0.61	5.00	ug/kg
Indeno(1,2,3-cd)pyrene	1.05	5.00	ug/kg
Dibenzo(a,h)anthracene	0.89	5.00	ug/kg
Benzo(g,h,i)perylene	1.07	5.00	ug/kg



METHOD DETECTION AND REPORTING LIMITS

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 1810285

Client: Anchor OEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Water

Instrument: NT8

Analyte	MDL	RL	Units
Naphthalene	0.02	0.10	ug/L
2-Methylnaphthalene	0.03	0.10	ug/L
1-Methylnaphthalene	0.02	0.10	ug/L
Acenaphthylene	0.02	0.10	ug/L
Acenaphthene	0.02	0.10	ug/L
Fluorene	0.02	0.10	ug/L
Phenanthrene	0.02	0.10	ug/L
Anthracene	0.02	0.10	ug/L
Fluoranthene	0.02	0.10	ug/L
Pyrene	0.03	0.10	ug/L
Benzo(a)anthracene	0.05	0.10	ug/L
Chrysene	0.06	0.10	ug/L
Benzo(b)fluoranthene	0.09	0.10	ug/L
Benzo(k)fluoranthene	0.09	0.10	ug/L
Benzo(j)fluoranthene	0.03	0.10	ug/L
Benzofluoranthenes, Total	0.19	0.20	ug/L
Benzo(a)pyrene	0.06	0.10	ug/L
Indeno(1,2,3-cd)pyrene	0.08	0.10	ug/L
Dibenzo(a,h)anthracene	0.09	0.10	ug/L
Benzo(g,h,i)perylene	0.07	0.10	ug/L



Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 18I0285
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-01 File ID: 18100509
 Sampled: 09/17/18 15:10 Prepared: 10/02/18 16:00 Analyzed: 10/05/18 16:06
 % Solids: 79.39 Preparation: EPA 1613 Initial/Final: 12.63 g Wet / 20 uL
 Result Basis: Dry Sequence: SGJ0093 Calibration: BH00060
 Batch: BGI0793 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.918	0.655-0.886		0.997	0.128	ng/kg	EMPC, J
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.048	0.997	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	1.532	1.318-1.783		0.997	0.086	ng/kg	J, B
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.071	0.997	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.079	0.997	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.123	1.054-1.426		0.997	0.053	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.040	0.997	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.651	1.054-1.426		0.997	0.060	ng/kg	EMPC, J
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.038	0.997	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.847	1.054-1.426		0.997	0.098	ng/kg	EMPC, J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.024	1.054-1.426		0.997	0.232	ng/kg	EMPC, J
19408-74-3	1,2,3,7,8,9-HxCDD	1	2.463	1.054-1.426		0.997	0.133	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.172	0.893-1.208		0.997	1.00	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.876	0.893-1.208		0.997	0.061	ng/kg	EMPC, J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.039	0.893-1.208		2.49	10.7	ng/kg	
39001-02-0	OCDF	1	1.066	0.757-1.024		1.99	2.65	ng/kg	EMPC
3268-87-9	OCDD	1	0.927	0.757-1.024		9.97	117	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.997	2.18	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.997	2.80	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.997	0.533	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.997	1.29	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.997	1.04	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.997	5.37	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.997	2.94	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.997	59.5	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.226
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.304



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>18I0285-01</u>
Sampled:	<u>09/17/18 15:10</u>	Prepared:	<u>10/02/18 16:00</u>
Solids Wt%:	<u>79.39</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SGJ0093</u>
Batch:	<u>BGI0793</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>18I00509</u>
		Analyzed:	<u>10/05/18 16:06</u>
		Initial/Final:	<u>12.63 g / 20 uL</u>
		Calibration:	<u>BH00060</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.796	0.655-0.886		92.7	24 - 169 %	
13C12-2,3,7,8-TCDD		0.770	0.655-0.886		86.1	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.587	1.318-1.783		93.5	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.573	1.318-1.783		91.8	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.642	1.318-1.783		87.4	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.498	0.434-0.587		89.3	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.503	0.434-0.587		91.9	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.504	0.434-0.587		88.0	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.504	0.434-0.587		89.5	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.297	1.054-1.426		92.0	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.274	1.054-1.426		91.0	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.443	0.374-0.506		91.0	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.422	0.374-0.506		95.4	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.100	0.893-1.208		90.2	23 - 140 %	
13C12-OCDD		0.888	0.757-1.024		74.6	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			99.2	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

Method: T:\Autospec-Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec-Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-01, **Name:** 18100509, **Date:** 05-Oct-2018, **Time:** 16:06:21, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.588	1.001	4.345e2	4.732e2	0.834	0.918	0.770	1022	1053	6.88e3	7.75e3	6.7	YES	YES	bd	bb	0.064
12378-PeCDF	29.725	1.000	3.196e2	2.086e2	0.852	1.532	1.550	1372	1077	5.21e3	3.59e3	3.8	YES	NO	bb	bb	0.043
23478-PeCDF					0.944		1.550	1372	1077								
123478-HxCDF	34.800	1.001	1.318e2	1.174e2	0.963	1.123	1.240	511	471	2.72e3	2.80e3	5.3	YES	NO	MM	MM	0.026
234678-HxCDF	35.825	1.000	1.726e2	1.046e2	0.991	1.651	1.240	511	471	2.00e3	2.08e3	3.9	YES	YES	bb	bb	0.030
123678-HxCDF					0.917		1.240	511	471								
123789-HxCDF					0.938		1.240	511	471								
1234678-HpCDF	38.541	1.001	2.643e3	2.254e3	1.119	1.172	1.050	359	774	4.77e4	3.62e4	132.8	YES	NO	bb	bb	0.504
1234789-HpCDF	40.733	1.000	1.192e2	1.360e2	1.162	0.876	1.050	359	774	1.82e3	2.47e3	5.1	YES	YES	bb	bb	0.030
OCDF	44.924	1.005	4.027e3	3.777e3	1.145	1.066	0.890	427	851	6.02e4	5.57e4	141.1	YES	YES	bb	bb	1.327
2378-TCDD					0.982		0.770	876	378								
12378-PeCDD					1.029		1.550	1273	378								
123478-HxCDD	35.958	1.000	1.862e2	2.199e2	0.921	0.847	1.240	771	791	3.46e3	3.66e3	4.5	YES	YES	bb	bd	0.049
123678-HxCDD	36.081	1.000	4.849e2	4.737e2	0.904	1.024	1.240	771	791	1.10e4	6.82e3	14.3	YES	YES	bb	dd	0.116
123789-HxCDD	36.437	1.010	3.923e2	1.592e2	0.918	2.463	1.240	771	791	8.43e3	3.81e3	10.9	YES	YES	bb	bd	0.066
1234678-HpCDD	40.021	1.001	1.829e4	1.761e4	1.046	1.039	1.050	1539	1048	2.88e5	2.82e5	186.8	YES	NO	bb	bb	5.344
OCDD	44.696	1.000	1.420e5	1.533e5	0.984	0.927	0.890	1054	1940	1.76e6	2.01e6	1672.7	YES	NO	bd	bb	58.450
13C-2378-TCDF	25.573	1.007	7.508e5	9.429e5	1.847	0.796	0.770	4778	2467	1.22e7	1.54e7	2555.2	YES	NO	bb	bb	92.654
13C-12378-PeCDF	29.725	1.171	8.847e5	5.574e5	1.558	1.587	1.550	1943	1563	1.39e7	8.83e6	7156.9	YES	NO	bb	bb	93.519
13C-23478-PeCDF	31.083	1.224	8.579e5	5.454e5	1.544	1.573	1.550	1943	1563	1.34e7	8.59e6	6878.2	YES	NO	bb	bb	91.829
13C-123478-HxCDF	34.767	0.955	3.252e5	6.528e5	1.152	0.498	0.510	1442	2156	4.99e6	9.85e6	3462.2	YES	NO	bd	bd	89.345
13C-123678-HxCDF	34.912	0.958	3.578e5	7.116e5	1.225	0.503	0.510	1442	2156	5.35e6	1.06e7	3710.1	YES	NO	db	db	91.893
13C-234678-HxCDF	35.836	0.984	3.091e5	6.138e5	1.104	0.504	0.510	1442	2156	5.05e6	1.01e7	3502.6	YES	NO	bb	bb	88.041
13C-123789-HxCDF	36.793	1.010	2.979e5	5.907e5	1.046	0.504	0.510	1442	2156	5.49e6	1.08e7	3804.1	YES	NO	bb	bb	89.472
13C-1234678-HpCDF	38.518	1.057	2.665e5	6.021e5	1.004	0.443	0.440	1323	2641	4.55e6	1.02e7	3437.0	YES	NO	bb	bb	91.039
13C-1234789-HpCDF	40.733	1.118	2.145e5	5.089e5	0.799	0.422	0.440	1323	2641	3.22e6	7.47e6	2437.4	YES	NO	bb	bb	95.361
13C-1234-TCDD	25.392	0.000	4.331e5	5.688e5	1.000	0.778	0.770	1707	898	6.99e6	9.01e6	4095.3	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.208	1.032	4.344e5	5.639e5	1.171	0.770	0.770	1707	898	6.94e6	8.93e6	4064.0	YES	NO	bb	bb	86.104
13C-12378-PeCDD	31.328	1.234	4.763e5	2.901e5	0.886	1.642	1.550	751	726	7.60e6	4.70e6	10118.6	YES	NO	bb	bb	87.383
13C-123478-HxCDD	35.958	0.987	5.065e5	3.904e5	1.027	1.297	1.240	2839	1539	8.44e6	6.45e6	2973.7	YES	NO	bd	bd	91.963
13C-123678-HxCDD	36.069	0.990	5.110e5	4.010e5	1.055	1.274	1.240	2839	1539	8.77e6	6.88e6	3088.3	YES	NO	db	db	91.007
13C-1234678-HpCDD	39.999	1.098	3.363e5	3.058e5	0.749	1.100	1.050	1602	1134	5.42e6	4.97e6	3382.5	YES	NO	bb	bb	90.250
13C-OCDD	44.678	1.227	4.830e5	5.441e5	0.725	0.888	0.890	1612	1357	6.07e6	6.66e6	3767.4	YES	NO	bb	bd	149.197
13C-123789-HxCDD	36.426	0.000	5.334e5	4.164e5	1.000	1.281	1.240	2839	1539	9.82e6	7.67e6	3457.3	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.222	1.033	4.402e5		1.121			456		6.76e6		14838.3	YES		bb		39.678

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
1368-TCDF	22.068	0.863	3.645e2	4.278e2	1.020	0.852	0.770	1022	1053	7.08e3	7.12e3	6.9	YES	NO	bb	bb	0.046	
1289-TCDF					0.818		0.770	1022	1053									
13468-PECDF					1.163		1.550	269	569									
12389-PECDF					0.912		1.550	1372	1077									
123468-HXCDF	33.053	0.951	2.970e2	2.783e2	1.051	1.067	1.240	511	471	4.56e3	4.15e3	8.9	YES	NO	bb	MM	0.056	
1368-TCDD	23.352	0.891	2.556e3	3.011e3	1.026	0.849	0.770	876	378	4.06e4	5.14e4	46.4	YES	NO	bb	bb	0.543	
1289-TCDD					0.938		0.770	876	378									
12479-PECDD	28.623	0.914	1.329e3	9.398e2	1.807	1.414	1.550	1273	378	1.43e4	1.08e4	11.2	YES	NO	bb	MM	0.164	
12389-PECDD					1.326		1.550	1273	378									
124679-HXCDD	33.843	0.941	4.436e3	3.522e3	1.031	1.259	1.240	771	791	7.38e4	5.42e4	95.7	YES	NO	bb	bb	0.860	
1234679-HPCDD	38.986	0.975	1.004e5	9.251e4	1.228	1.085	1.050	1539	1048	1.75e6	1.63e6	1134.2	YES	NO	bb	bb	24.466	
Total-tetrafurans			7.359e3		0.891			1022		1.08e5							1.091	
Total-penta1			7.448e2					269		1.29e4							0.099	
Total-pentafurans			1.294e3		0.903			1372		2.22e4							0.168	
Total-hexafurans			2.746e3		0.972			511		4.37e4							0.521	
Total-heptafurans			7.381e3		1.141			359		1.18e5							1.474	
Total-Furans			2.355e4		0.989			1022		3.65e5							4.680	
Total-tetraoxins			6.385e3		0.982			876		9.65e4							1.401	
Total-pentadioxins			4.568e3		1.387			1273		6.59e4							0.649	
Total-hexadioxins			1.312e4		0.944			771		2.27e5							2.690	
Total-heptadioxins			1.187e5		1.137			1539		2.03e6							29.810	
Total-Dioxins			2.848e5		1.088			876		4.19e6							93.001	
Total-TEQ			3.083e5					876		4.55e6							97.681	
FUNCTION1 PFK			1.316e7					595748		2.24e7							0.000	
FUNCTION2 PFK			2.385e5					461401		1.56e6							0.000	
FUNCTION3 PFK			4.199e6					419159		1.73e7							0.000	
FUNCTION4 PFK			4.981e4					349566		1.59e6								
FUNCTION5 PFK			0.000e0					222948		0.00e0								
FUNCTION1 HXGD...			3.444e3					290		4.70e4							0.000	
FUNCTION1 HPCD...			3.921e2					428		6.88e3							0.000	
FUNCTION2 HPCD...			7.204e1					466		1.58e3							0.000	
FUNCTION3 OCDPE			0.000e0					276		0.00e0								
FUNCTION4 NCDPE			9.295e2					411		1.62e4							0.000	
FUNCTION5 DCDPE			0.000e0					228		0.00e0								

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
 Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

TF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-tetrafurans	24.27	4.851e2	3.974e2	0.891	1.22	0.77	6.0	YES	YES	dd	dd	0.058
Total-tetrafurans	24.17	2.647e2	2.272e2	0.891	1.16	0.77	4.4	YES	YES	dd	bd	0.033
Total-tetrafurans	23.84	2.572e2	4.112e2	0.891	0.63	0.77	3.7	YES	YES	db	bb	0.044
Total-tetrafurans	23.70	1.878e2	2.194e2	0.891	0.86	0.77	3.1	YES	NO	dd	db	0.027
Total-tetrafurans	23.59	3.189e2	4.345e2	0.891	0.73	0.77	6.4	YES	NO	bd	dd	0.050
Total-tetrafurans	23.41	4.270e2	4.169e2	0.891	1.02	0.77	5.2	YES	YES	db	dd	0.056
Total-tetrafurans	23.32	3.349e2	4.793e2	0.891	0.70	0.77	5.0	YES	NO	dd	dd	0.054
Total-tetrafurans	23.23	3.434e2	6.087e2	0.891	0.56	0.77	4.8	YES	YES	dd	dd	0.063
Total-tetrafurans	23.11	8.514e2	9.185e2	0.891	0.93	0.77	8.2	YES	YES	dd	dd	0.117
Total-tetrafurans	22.94	6.055e2	5.671e2	0.891	1.07	0.77	8.3	YES	YES	bd	bd	0.078
1368-TCDF	22.07	3.645e2	4.278e2	1.020	0.85	0.77	6.9	YES	NO	bb	bb	0.046
Total-tetrafurans	25.81	6.021e2	5.159e2	0.891	1.17	0.77	6.8	YES	YES	db	db	0.074
Total-tetrafurans	25.72	2.037e2	2.199e2	0.891	0.93	0.77	3.2	YES	YES	dd	bd	0.028
2378-TCDF	25.59	4.345e2	4.732e2	0.834	0.92	0.77	6.7	YES	YES	bd	bb	0.064
Total-tetrafurans	25.33	2.005e2	4.991e2	0.891	0.40	0.77	3.7	YES	YES	bd	bb	0.046
Total-tetrafurans	24.91	1.567e2	3.462e2	0.891	0.45	0.77	3.2	YES	YES	bb	bb	0.033
Total-tetrafurans	24.68	4.914e2	8.002e2	0.891	0.61	0.77	7.7	YES	YES	db	bb	0.086
Total-tetrafurans	24.49	4.835e2	9.212e2	0.891	0.52	0.77	6.6	YES	YES	dd	db	0.093
Total-tetrafurans	24.33	3.460e2	2.595e2	0.891	1.33	0.77	5.4	YES	YES	dd	dd	0.040

PP

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-penta1	27.02	7.448e2	5.630e2		1.32	1.55	47.9	YES	NO	db	bb	0.099

PF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
12378-PeCDF	29.73	3.196e2	2.086e2	0.852	1.53	1.55	3.8	YES	NO	bb	bb	0.043
Total-penta1	28.67	3.843e2	3.259e2	0.903	1.18	1.55	5.5	YES	YES	db	db	0.055
Total-penta1	28.59	5.896e2	3.085e2	0.903	1.91	1.55	6.9	YES	YES	MM	bd	0.070

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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HF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-hexaturans	33.26	1.095e3	8.770e2	0.972	1.25	1.24	32.7	YES	NO	bd	bb	0.210
2 123468-HxCDF	33.05	2.970e2	2.783e2	1.051	1.07	1.24	8.9	YES	NO	bb	MM	0.056
3 234678-HxCDF	35.82	1.726e2	1.046e2	0.991	1.65	1.24	3.9	YES	YES	bb	bb	0.030
4 123478-HxCDF	34.80	1.318e2	1.174e2	0.963	1.12	1.24	5.3	YES	NO	MM	MM	0.026
5 Total-hexaturans	34.13	1.049e3	8.057e2	0.972	1.30	1.24	34.6	YES	NO	bb	bb	0.198

HPF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 1234789-HpCDF	40.73	1.192e2	1.360e2	1.162	0.88	1.05	5.1	YES	YES	bb	bb	0.030
2 Total-heptaturans	39.20	4.619e3	3.913e3	1.141	1.18	1.05	191.4	YES	NO	bb	bb	0.940
3 1234678-HpCDF	38.54	2.643e3	2.254e3	1.119	1.17	1.05	132.8	YES	NO	bb	bb	0.504

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Furans,TF,PP,PF,HIF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetraturans	24.27	4.851e2	3.974e2	0.891	1.22	0.77	6.0	YES	YES	dd	0.058
2	Total-tetraturans	24.17	2.647e2	2.272e2	0.891	1.16	0.77	4.4	YES	YES	dd	0.033
3	Total-tetraturans	23.84	2.572e2	4.112e2	0.891	0.63	0.77	3.7	YES	YES	db	0.044
4	Total-tetraturans	23.70	1.878e2	2.194e2	0.891	0.86	0.77	3.1	YES	NO	db	0.027
5	Total-tetraturans	23.59	3.189e2	4.345e2	0.891	0.73	0.77	6.4	YES	NO	bd	0.050
6	Total-tetraturans	23.41	4.270e2	4.169e2	0.891	1.02	0.77	5.2	YES	YES	db	0.056
7	Total-tetraturans	23.32	3.349e2	4.793e2	0.891	0.70	0.77	5.0	YES	NO	dd	0.054
8	Total-tetraturans	23.23	3.434e2	6.087e2	0.891	0.56	0.77	4.8	YES	YES	dd	0.063
9	Total-tetraturans	23.11	8.514e2	9.185e2	0.891	0.93	0.77	8.2	YES	YES	dd	0.117
10	Total-tetraturans	22.94	6.055e2	5.671e2	0.891	1.07	0.77	8.3	YES	YES	bd	0.078
11	1368-TCDF	22.07	3.645e2	4.278e2	1.020	0.85	0.77	6.9	YES	NO	bb	0.046
12	Total-tetraturans	25.81	6.021e2	5.159e2	0.891	1.17	0.77	6.8	YES	YES	db	0.074
13	Total-tetraturans	25.72	2.037e2	2.199e2	0.891	0.93	0.77	3.2	YES	YES	dd	0.028
14	2378-TCDF	25.59	4.345e2	4.732e2	0.834	0.92	0.77	6.7	YES	YES	bd	0.064
15	Total-tetraturans	25.33	2.005e2	4.991e2	0.891	0.40	0.77	3.7	YES	YES	bd	0.046
16	Total-tetraturans	24.91	1.567e2	3.462e2	0.891	0.45	0.77	3.2	YES	YES	bb	0.033
17	Total-tetraturans	24.68	4.914e2	8.002e2	0.891	0.61	0.77	7.7	YES	YES	db	0.086
18	Total-tetraturans	24.49	4.835e2	9.212e2	0.891	0.52	0.77	6.6	YES	YES	dd	0.093
19	Total-tetraturans	24.33	3.460e2	2.595e2	0.891	1.33	0.77	5.4	YES	YES	dd	0.040
20	12378-PeCDF	29.73	3.196e2	2.086e2	0.852	1.53	1.55	3.8	YES	NO	bb	0.043
21	Total-pentaturans	28.67	3.843e2	3.259e2	0.903	1.18	1.55	5.5	YES	YES	db	0.055
22	Total-pentaturans	28.59	5.896e2	3.085e2	0.903	1.91	1.55	6.9	YES	YES	MM	0.070
23	Total-hexaturans	33.26	1.095e3	8.770e2	0.972	1.25	1.24	32.7	YES	NO	bd	0.210
24	123468-HxCDF	33.05	2.970e2	2.783e2	1.051	1.07	1.24	8.9	YES	NO	MM	0.056
25	234678-HxCDF	35.82	1.726e2	1.046e2	0.991	1.65	1.24	3.9	YES	YES	bb	0.030
26	123478-HxCDF	34.80	1.318e2	1.174e2	0.963	1.12	1.24	5.3	YES	NO	MM	0.026
27	Total-hexaturans	34.13	1.049e3	8.057e2	0.972	1.30	1.24	34.6	YES	NO	bb	0.198
28	OCDF	44.92	4.027e3	3.777e3	1.145	1.07	0.89	141.1	YES	YES	bb	1.327
29	1234789-HpCDF	40.73	1.192e2	1.360e2	1.162	0.88	1.05	5.1	YES	YES	bb	0.030
30	Total-heptaturans	39.20	4.619e3	3.913e3	1.141	1.18	1.05	191.4	YES	NO	bb	0.940
31	1234678-HpCDF	38.54	2.643e3	2.254e3	1.119	1.17	1.05	132.8	YES	NO	bb	0.504
32	Total-penta1	27.02	7.448e2	5.630e2	1.32	1.32	1.55	47.9	YES	NO	db	0.099

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TD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraiodoxins	25.84	5.653e2	6.788e2	0.982	0.83	0.77	8.4	YES	NO	bb	bb	0.127
2 Total-tetraiodoxins	25.41	4.597e2	4.995e2	0.982	0.92	0.77	7.3	YES	YES	bd	bb	0.098
3 Total-tetraiodoxins	24.83	6.753e2	8.298e2	0.982	0.81	0.77	10.4	YES	NO	bb	bb	0.154
4 Total-tetraiodoxins	24.56	3.146e2	4.840e2	0.982	0.65	0.77	6.0	YES	YES	bb	bb	0.081
5 Total-tetraiodoxins	23.62	1.814e3	2.090e3	0.982	0.87	0.77	31.7	YES	NO	bd	bb	0.398
6 1368-TCDD	23.35	2.556e3	3.011e3	1.026	0.85	0.77	46.4	YES	NO	bb	bb	0.543

PD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 12479-PECDD	28.62	1.329e3	9.398e2	1.807	1.41	1.55	11.2	YES	NO	bb	MM	0.164
2 Total-pentadiodoxins	30.66	7.883e2	3.384e2	1.387	2.33	1.55	9.5	YES	YES	bb	bb	0.106
3 Total-pentadiodoxins	30.08	9.702e2	6.817e2	1.387	1.42	1.55	10.8	YES	NO	bb	dd	0.155
4 Total-pentadiodoxins	29.75	1.481e3	9.015e2	1.387	1.64	1.55	20.2	YES	NO	bb	bb	0.224

HD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 123789-HxCDD	36.44	3.923e2	1.592e2	0.918	2.46	1.24	10.9	YES	YES	bb	bd	0.066
2 Total-hexadiodoxins	36.23	3.322e2	1.918e2	0.944	1.73	1.24	7.6	YES	YES	bb	db	0.061
3 123678-HxCDD	36.08	4.849e2	4.737e2	0.904	1.02	1.24	14.3	YES	YES	bb	dd	0.116
4 123478-HxCDD	35.96	1.862e2	2.199e2	0.921	0.85	1.24	4.5	YES	YES	bb	bd	0.049
5 Total-hexadiodoxins	35.16	1.422e3	1.068e3	0.944	1.33	1.24	26.1	YES	NO	db	db	0.292
6 Total-hexadiodoxins	35.05	1.389e3	1.251e3	0.944	1.11	1.24	39.8	YES	NO	dd	dd	0.309
7 Total-hexadiodoxins	35.01	1.914e3	1.574e3	0.944	1.22	1.24	40.3	YES	NO	dd	bd	0.409
8 Total-hexadiodoxins	34.66	2.566e3	1.935e3	0.944	1.33	1.24	55.1	YES	NO	bb	bb	0.527
9 124679-HxCDD	33.84	4.436e3	3.522e3	1.031	1.26	1.24	95.7	YES	NO	bb	bb	0.860

HPD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 1234678-HpCDD	40.02	1.829e4	1.761e4	1.046	1.04	1.05	186.8	YES	NO	bb	bb	5.344
2 1234679-HPCDD	38.99	1.004e5	9.251e4	1.228	1.09	1.05	1134.2	YES	NO	bb	bb	24.466

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Dioxins,TD,PD,HD,HPCDD,OD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetradoxins	25.84	5.653e2	6.788e2	0.982	0.83	0.77	8.4	YES	NO	bb	bb	0.127
2 Total-tetradoxins	25.41	4.597e2	4.995e2	0.982	0.92	0.77	7.3	YES	YES	bd	bb	0.098
3 Total-tetradoxins	24.83	6.753e2	8.298e2	0.982	0.81	0.77	10.4	YES	NO	bb	bb	0.154
4 Total-tetradoxins	24.56	3.146e2	4.840e2	0.982	0.65	0.77	6.0	YES	YES	bb	bb	0.081
5 Total-tetradoxins	23.62	1.814e3	2.090e3	0.982	0.87	0.77	31.7	YES	NO	bd	bb	0.398
6 1368-TCDD	23.35	2.556e3	3.011e3	1.026	0.85	0.77	46.4	YES	NO	bb	bb	0.543
7 12479-PECDD	28.62	1.329e3	9.398e2	1.807	1.41	1.55	11.2	YES	NO	bb	MM	0.164
8 Total-pentadoxins	30.66	7.883e2	3.384e2	1.387	2.33	1.55	9.5	YES	YES	bb	bb	0.106
9 Total-pentadoxins	30.08	9.702e2	6.817e2	1.387	1.42	1.55	10.8	YES	NO	bb	dd	0.155
10 Total-pentadoxins	29.75	1.481e3	9.015e2	1.387	1.64	1.55	20.2	YES	NO	bb	bb	0.224
11 123789-HxCDD	36.44	3.923e2	1.592e2	0.918	2.46	1.24	10.9	YES	YES	bb	bd	0.066
12 Total-hexadoxins	36.23	3.322e2	1.918e2	0.944	1.73	1.24	7.6	YES	YES	bb	db	0.061
13 123678-HxCDD	36.08	4.849e2	4.737e2	0.904	1.02	1.24	14.3	YES	YES	bb	dd	0.116
14 123478-HxCDD	35.96	1.862e2	2.199e2	0.921	0.85	1.24	4.5	YES	YES	bb	bd	0.049
15 Total-hexadoxins	35.16	1.422e3	1.068e3	0.944	1.33	1.24	26.1	YES	NO	db	db	0.292
16 Total-hexadoxins	35.05	1.389e3	1.251e3	0.944	1.11	1.24	39.8	YES	NO	dd	dd	0.309
17 Total-hexadoxins	35.01	1.914e3	1.574e3	0.944	1.22	1.24	40.3	YES	NO	dd	bd	0.409
18 Total-hexadoxins	34.66	2.566e3	1.935e3	0.944	1.33	1.24	55.1	YES	NO	bb	bb	0.527
19 124679-HxCDD	33.84	4.436e3	3.522e3	1.031	1.26	1.24	95.7	YES	NO	bb	bb	0.860
20 OCDD	44.70	1.420e5	1.533e5	0.984	0.93	0.89	1672.7	YES	NO	bd	bb	58.450
21 1234678-HpCDD	40.02	1.829e4	1.761e4	1.046	1.04	1.05	186.8	YES	NO	bb	bb	5.344
22 1234679-HPCDD	38.99	1.004e5	9.251e4	1.228	1.09	1.05	1134.2	YES	NO	bb	bb	24.466

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ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	24.27	4.851e2	3.974e2	0.891	1.22	0.77	6.0	YES	YES	dd	dd	0.058
2 Total-tetraturans	24.17	2.647e2	2.272e2	0.891	1.16	0.77	4.4	YES	YES	dd	bd	0.033
3 Total-tetraturans	23.84	2.572e2	4.112e2	0.891	0.63	0.77	3.7	YES	YES	db	bb	0.044
4 Total-tetraturans	23.70	1.878e2	2.194e2	0.891	0.86	0.77	3.1	YES	NO	dd	db	0.027
5 Total-tetraturans	23.59	3.189e2	4.345e2	0.891	0.73	0.77	6.4	YES	NO	bd	dd	0.050
6 Total-tetraturans	23.41	4.270e2	4.169e2	0.891	1.02	0.77	5.2	YES	YES	db	dd	0.056
7 Total-tetraturans	23.32	3.349e2	4.793e2	0.891	0.70	0.77	5.0	YES	NO	dd	dd	0.054
8 Total-tetraturans	23.23	3.434e2	6.087e2	0.891	0.56	0.77	4.8	YES	YES	dd	dd	0.063
9 Total-tetraturans	23.11	8.514e2	9.185e2	0.891	0.93	0.77	8.2	YES	YES	dd	dd	0.117
10 Total-tetraturans	22.94	6.055e2	5.671e2	0.891	1.07	0.77	8.3	YES	YES	bd	bd	0.078
11 1368-TCDF	22.07	3.645e2	4.278e2	1.020	0.85	0.77	6.9	YES	NO	bb	bb	0.046
12 Total-tetraturans	25.81	6.021e2	5.159e2	0.891	1.17	0.77	6.8	YES	YES	db	db	0.074
13 Total-tetraturans	25.72	2.037e2	2.199e2	0.891	0.93	0.77	3.2	YES	YES	dd	bd	0.028
14 2378-TCDF	25.59	4.345e2	4.732e2	0.834	0.92	0.77	6.7	YES	YES	bd	bb	0.064
15 Total-tetraturans	25.33	2.005e2	4.991e2	0.891	0.40	0.77	3.7	YES	YES	bd	bb	0.046
16 Total-tetraturans	24.91	1.567e2	3.462e2	0.891	0.45	0.77	3.2	YES	YES	bb	bb	0.033
17 Total-tetraturans	24.68	4.914e2	8.002e2	0.891	0.61	0.77	7.7	YES	YES	db	bb	0.086
18 Total-tetraturans	24.49	4.835e2	9.212e2	0.891	0.52	0.77	6.6	YES	YES	dd	db	0.093
19 Total-tetraturans	24.33	3.460e2	2.595e2	0.891	1.33	0.77	5.4	YES	YES	dd	dd	0.040
20 12378-PeCDF	29.73	3.196e2	2.086e2	0.852	1.53	1.55	3.8	YES	NO	bb	bb	0.043
21 Total-pentafurans	28.67	3.843e2	3.259e2	0.903	1.18	1.55	5.5	YES	YES	db	db	0.055
22 Total-pentafurans	28.59	5.896e2	3.085e2	0.903	1.91	1.55	6.9	YES	YES	MM	bd	0.070
23 Total-hexafurans	33.26	1.095e3	8.770e2	0.972	1.25	1.24	32.7	YES	NO	bd	bb	0.210
24 123468-HxCDF	33.05	2.970e2	2.783e2	1.051	1.07	1.24	8.9	YES	NO	bb	MM	0.056
25 234678-HxCDF	35.82	1.726e2	1.046e2	0.991	1.65	1.24	3.9	YES	YES	bb	bb	0.030
26 123478-HxCDF	34.80	1.318e2	1.174e2	0.963	1.12	1.24	5.3	YES	NO	MM	MM	0.026
27 Total-hexafurans	34.13	1.049e3	8.057e2	0.972	1.30	1.24	34.6	YES	NO	bb	bb	0.198
28 OCDF	44.92	4.027e3	3.777e3	1.145	1.07	0.89	141.1	YES	YES	bb	bb	1.327
29 1234789-HpCDF	40.73	1.192e2	1.360e2	1.162	0.88	1.05	5.1	YES	YES	bb	bb	0.030
30 Total-heptafurans	39.20	4.619e3	3.913e3	1.141	1.18	1.05	191.4	YES	NO	bb	bb	0.940
31 1234678-HpCDF	38.54	2.643e3	2.254e3	1.119	1.17	1.05	132.8	YES	NO	bb	bb	0.504
32 Total-penta1	27.02	7.448e2	5.630e2	0.982	1.32	1.55	47.9	YES	NO	db	bb	0.099
33 Total-tetradoxins	25.84	5.653e2	6.788e2	0.982	0.83	0.77	8.4	YES	NO	bb	bb	0.127
34 Total-tetradoxins	25.41	4.597e2	4.995e2	0.982	0.92	0.77	7.3	YES	YES	bd	bb	0.098
35 Total-tetradoxins	24.83	6.753e2	8.298e2	0.982	0.81	0.77	10.4	YES	NO	bb	bb	0.154
36 Total-tetradoxins	24.56	3.146e2	4.840e2	0.982	0.65	0.77	6.0	YES	YES	bb	bb	0.081
37 Total-tetradoxins	23.62	1.814e3	2.090e3	0.982	0.87	0.77	31.7	YES	NO	bd	bb	0.398

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1368-TCDD	2.556e3	3.011e3	1.026	0.85	0.77	46.4	YES	NO	bb	bb	0.543
39	12479-PECDD	1.329e3	9.398e2	1.807	1.41	1.55	11.2	YES	NO	bb	MM	0.164
40	Total-pentadioxins	7.883e2	3.384e2	1.387	2.33	1.55	9.5	YES	YES	bb	bb	0.106
41	Total-pentadioxins	9.702e2	6.817e2	1.387	1.42	1.55	10.8	YES	NO	bb	dd	0.155
42	Total-pentadioxins	1.481e3	9.015e2	1.387	1.64	1.55	20.2	YES	NO	bb	bb	0.224
43	123789-HxCDD	3.923e2	1.592e2	0.918	2.46	1.24	10.9	YES	YES	bb	bd	0.066
44	Total-hexadioxins	3.322e2	1.918e2	0.944	1.73	1.24	7.6	YES	YES	bb	db	0.061
45	123678-HxCDD	4.849e2	4.737e2	0.904	1.02	1.24	14.3	YES	YES	bb	dd	0.116
46	123478-HxCDD	1.862e2	2.199e2	0.921	0.85	1.24	4.5	YES	YES	bb	bd	0.049
47	Total-hexadioxins	1.422e3	1.068e3	0.944	1.33	1.24	26.1	YES	NO	db	db	0.292
48	Total-hexadioxins	1.389e3	1.251e3	0.944	1.11	1.24	39.8	YES	NO	dd	dd	0.309
49	Total-hexadioxins	1.914e3	1.574e3	0.944	1.22	1.24	40.3	YES	NO	dd	bd	0.409
50	Total-hexadioxins	2.566e3	1.935e3	0.944	1.33	1.24	55.1	YES	NO	bb	bb	0.527
51	124679-HxCDD	4.436e3	3.522e3	1.031	1.26	1.24	95.7	YES	NO	bb	bb	0.860
52	OCDD	44.70	1.420e5	0.984	0.93	0.89	1672.7	YES	NO	bd	bb	58.450
53	1234678-HpCDD	40.02	1.829e4	1.046	1.04	1.05	186.8	YES	NO	bb	bb	5.344
54	1234679-HpCDD	38.99	1.004e5	1.228	1.09	1.05	1134.2	YES	NO	bb	bb	24.466

PFK1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.64	5.294e6				10.0	YES		bb		
2	FUNCTION1 PFK	21.06	7.675e6				22.1	YES		db		
3	FUNCTION1 PFK	20.15	1.906e5				5.4	YES		bd		

PFK2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.22	3.720e4				0.6	NO		bb		0.000
2	FUNCTION2 PFK	28.02	2.013e5				2.8	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

PFK3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION3 PFK	37.16	1.145e5					5.5	YES		db		0.000
FUNCTION3 PFK	37.07	1.638e5					5.2	YES		bd		0.000
FUNCTION3 PFK	36.87	1.379e5					2.0	NO		bb		0.000
FUNCTION3 PFK	36.68	1.708e5					5.4	YES		bb		0.000
FUNCTION3 PFK	36.23	1.700e6					6.8	YES		bb		0.000
FUNCTION3 PFK	35.70	1.882e6					12.7	YES		bb		0.000
FUNCTION3 PFK	32.92	1.488e4					1.5	NO		bb		0.000
FUNCTION3 PFK	32.74	3.141e3					0.7	NO		bb		0.000
FUNCTION3 PFK	32.70	1.161e4					1.5	NO		bb		0.000

PFK4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION4 PFK	40.66	4.672e3					0.8	NO		bb		
FUNCTION4 PFK	37.93	1.445e4					1.4	NO		bb		
FUNCTION4 PFK	42.43	1.997e4					1.1	NO		bb		
FUNCTION4 PFK	41.17	1.071e4					1.3	NO		bb		

PFK5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg

ETHERS1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 HXCD...	25.68	3.136e3					144.0	YES		bb		0.000
FUNCTION1 HXCD...	25.38	3.080e2					18.0	YES		bb		0.000

ETHERS2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 HPCD...	23.50	7.892e1					3.8	YES		bb		0.000
FUNCTION1 HPCD...	21.87	2.187e2					9.3	YES		bb		0.000
FUNCTION1 HPCD...	20.72	9.451e1					3.0	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909
 Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

ETHERS3

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	FUNCTION2 HPCD...	29.10	7.204e1					3.4	YES		bb		0.000

ETHERS4

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg

ETHERS5

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	FUNCTION4 NCDPE	38.20	9.295e2					39.5	YES		bb		0.000

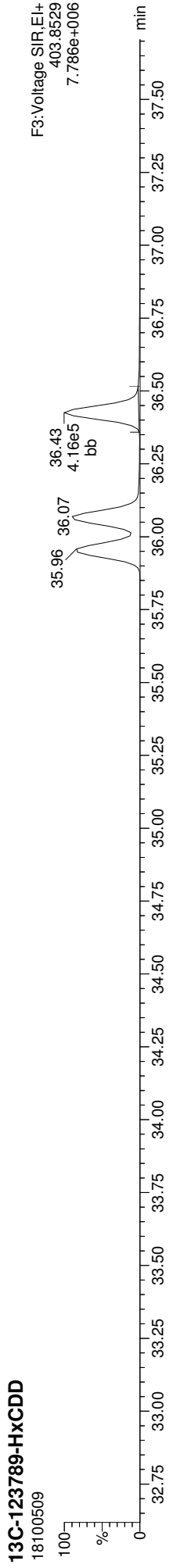
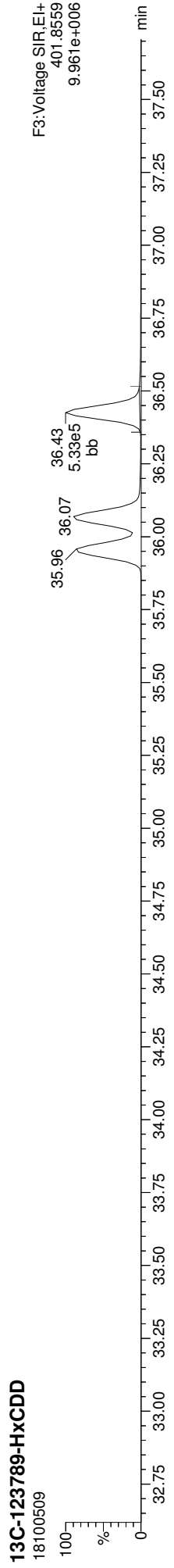
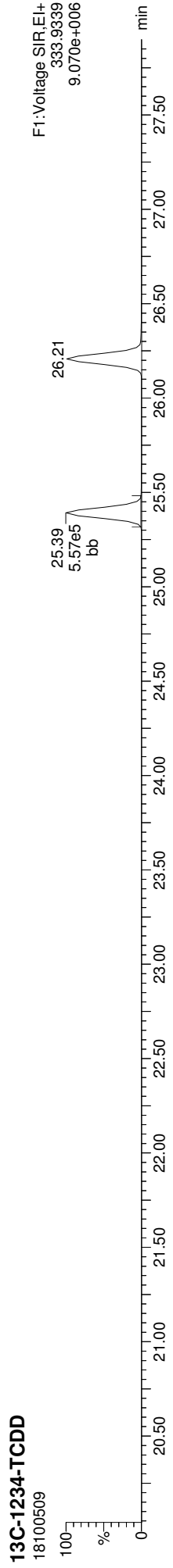
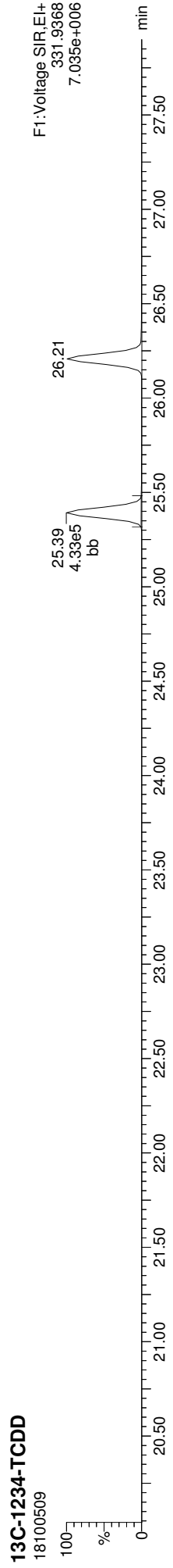
ETHERS6

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg

Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

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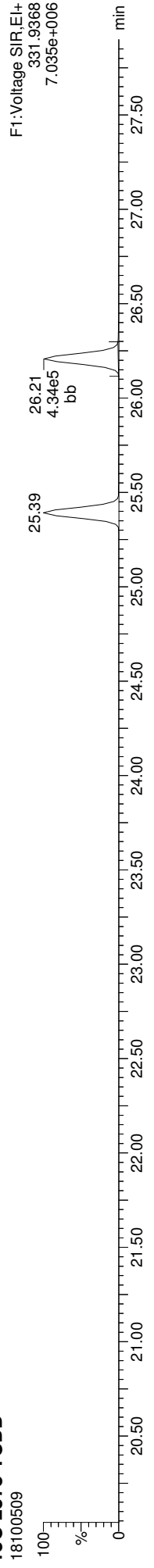
ID: 1810285-01, **Name:** 18100509, **Date:** 05-Oct-2018, **Time:** 16:06:21, **Conditions:** AUTOSPEC01, **User:** PK



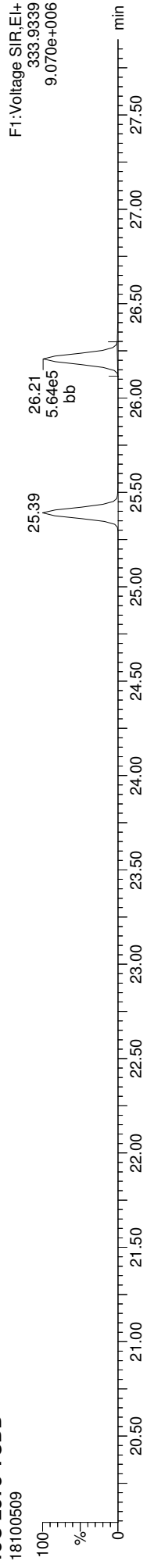
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

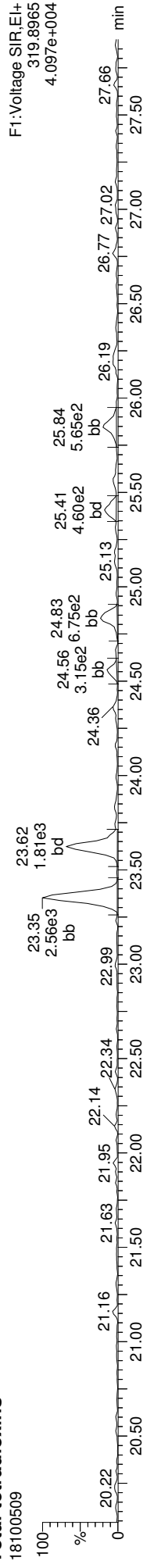
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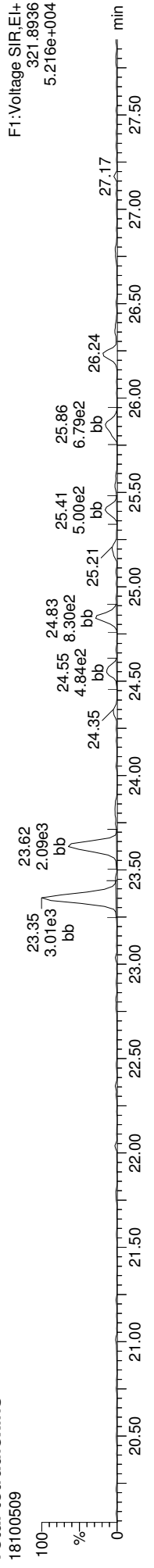
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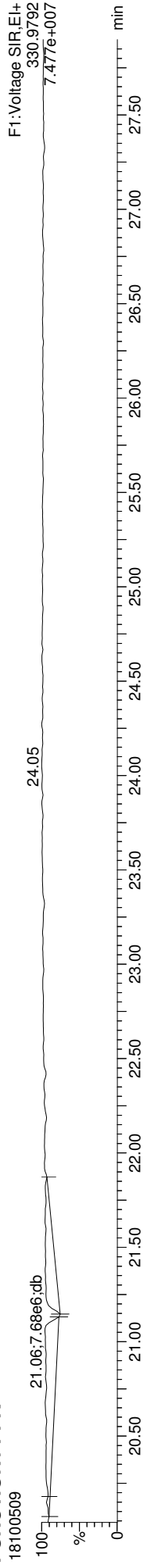
Total-tetradioxins



Total-tetradioxins



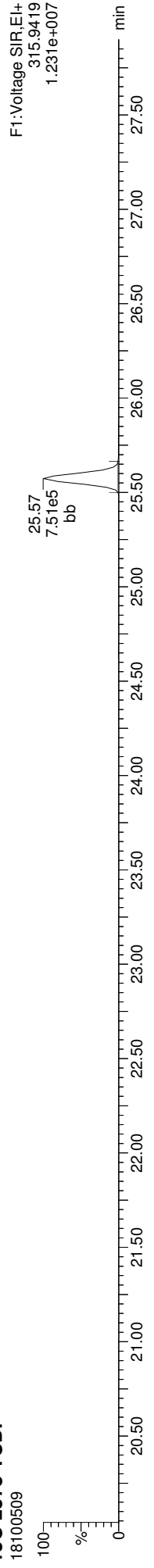
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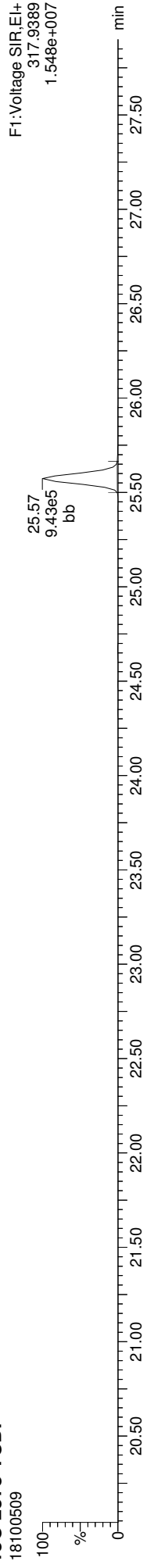
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ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

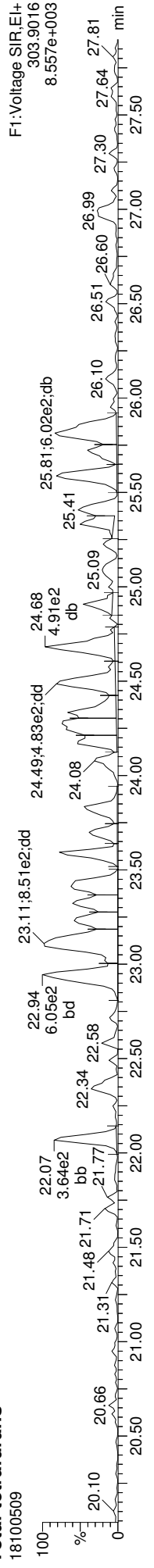
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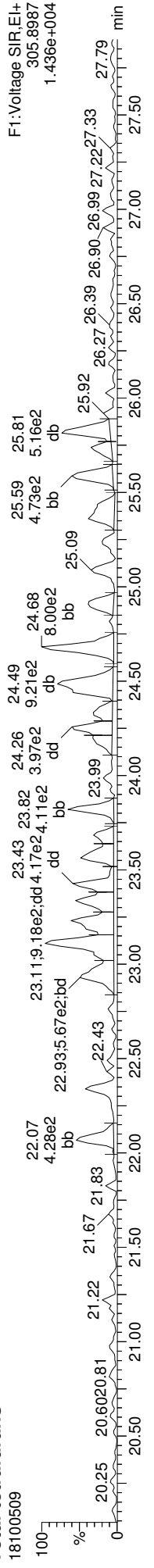
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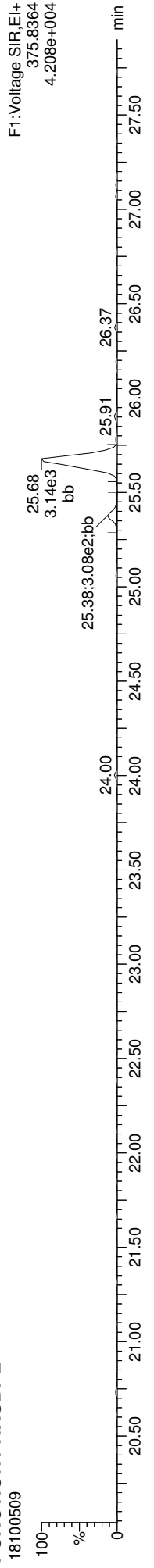
Total-tetrafurans



Total-tetrafurans



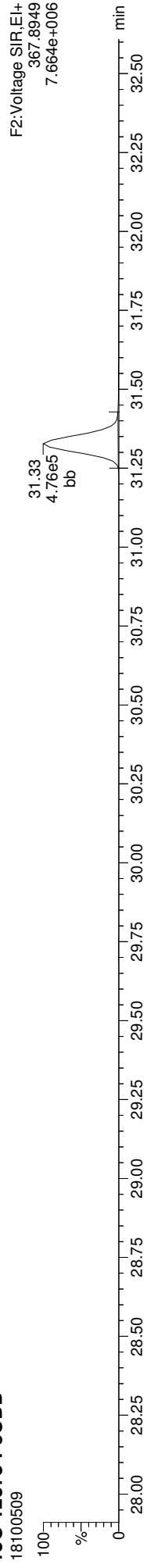
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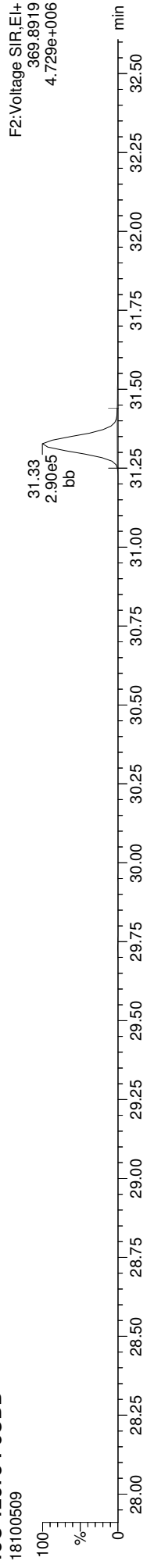
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Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

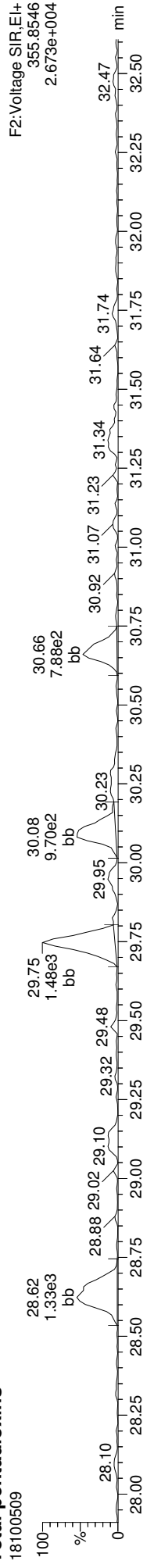
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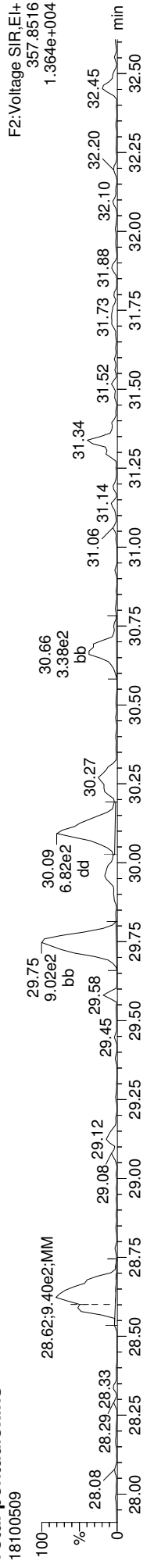
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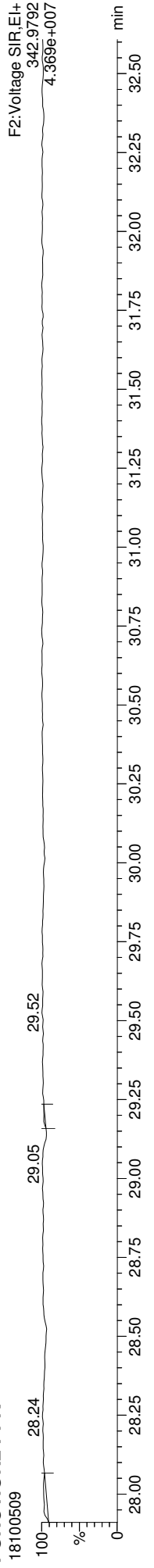
Total-pentadioxins



Total-pentadioxins

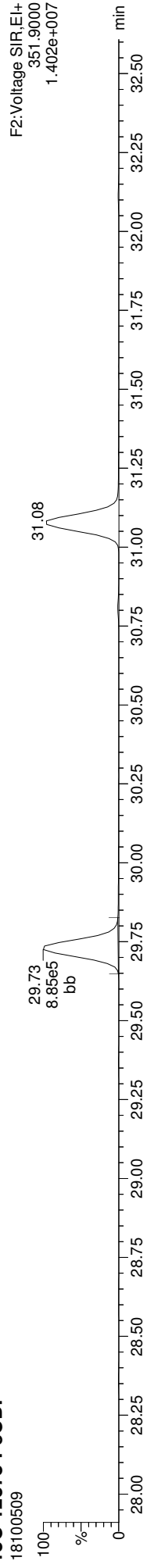


FUNCTION2 PFK

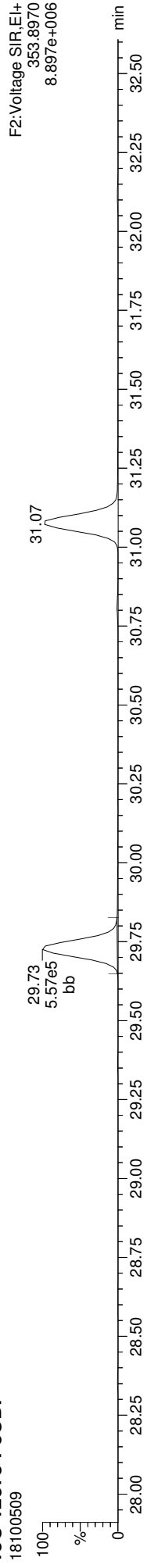


ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

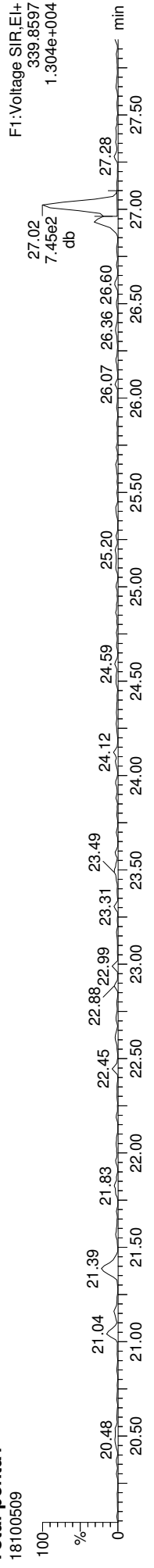
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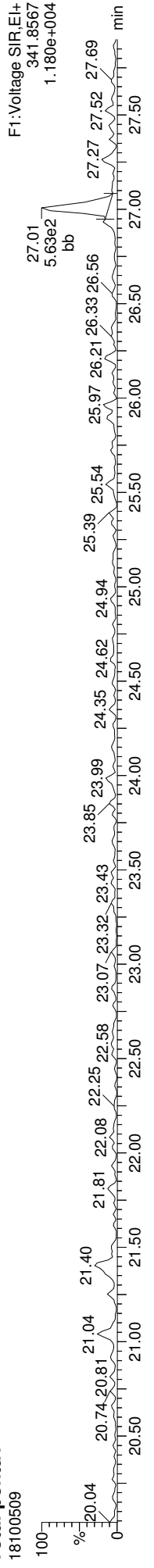
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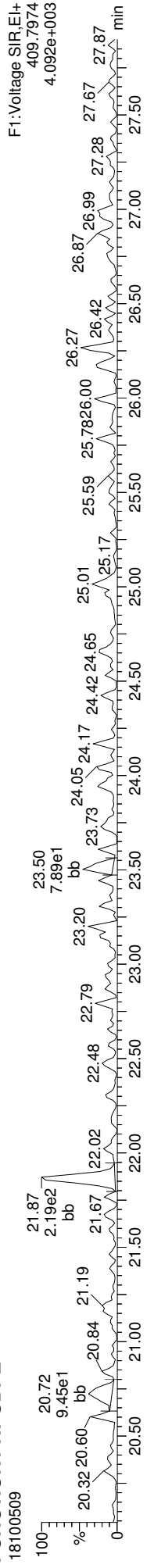
Total-penta1



Total-penta1



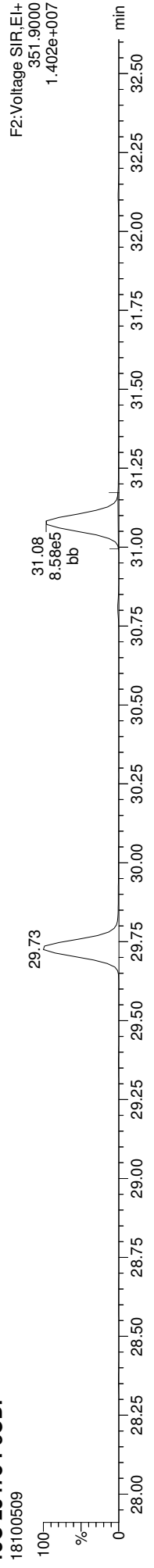
FUNCTION1 HPCDPE



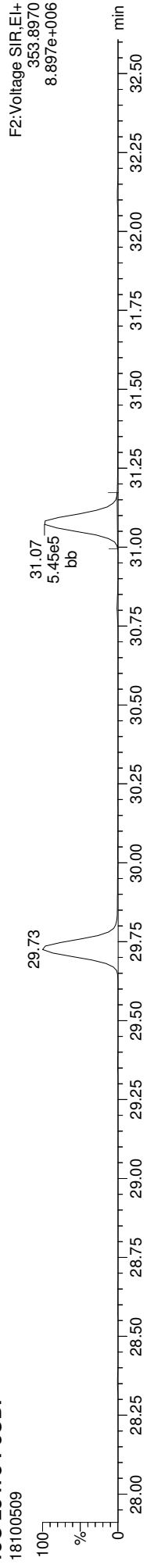
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

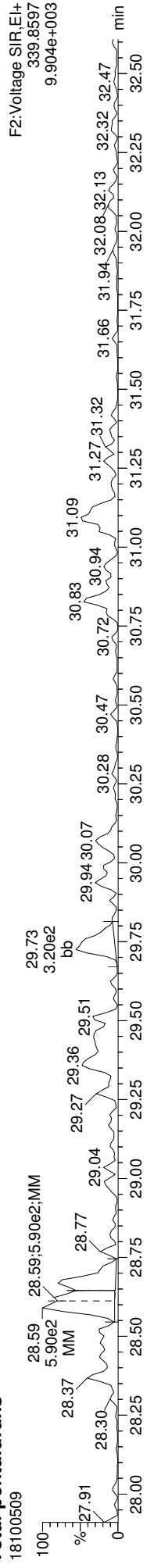
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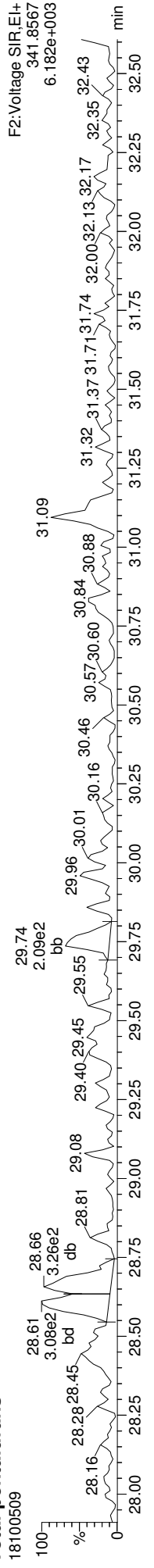
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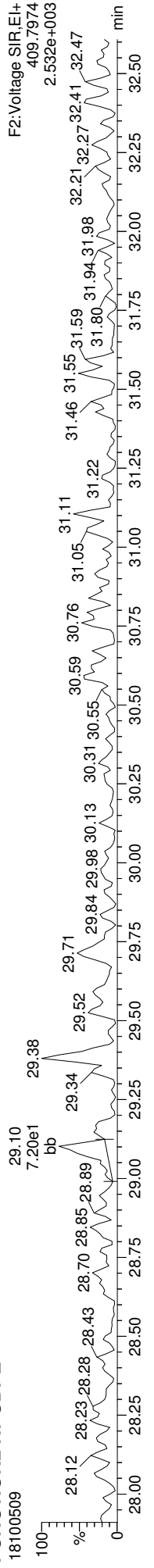
Total-pentafurans



Total-pentafurans



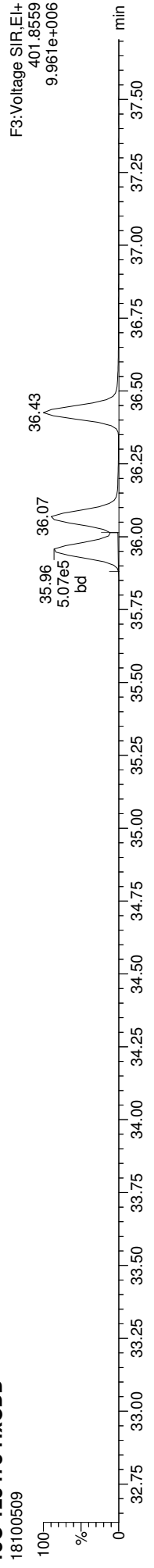
FUNCTION2 HPCDPE



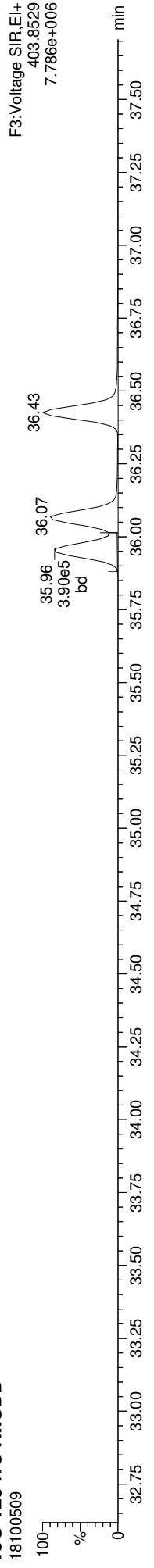
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

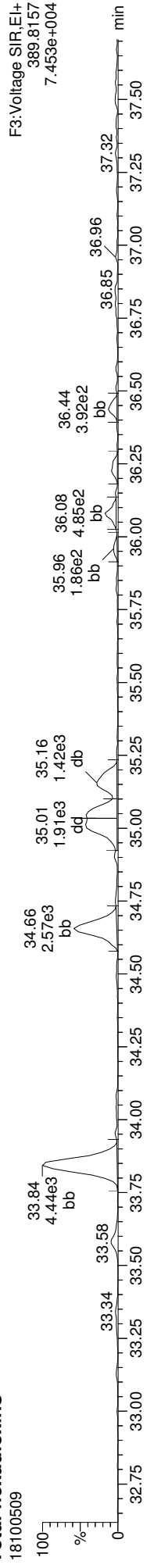
13C-123478-HxCDD



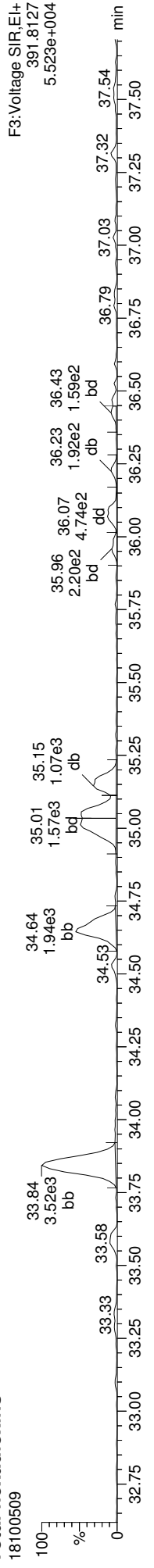
13C-123478-HxCDD



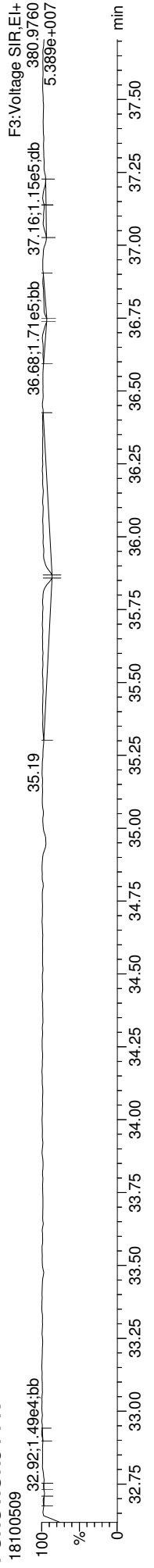
Total-hexadioxins



Total-hexadioxins



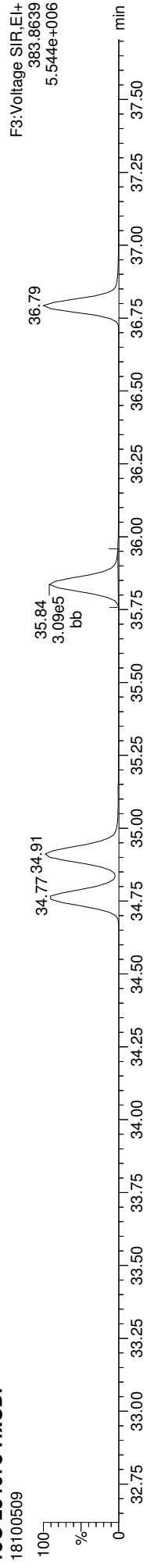
FUNCTION3 PFK



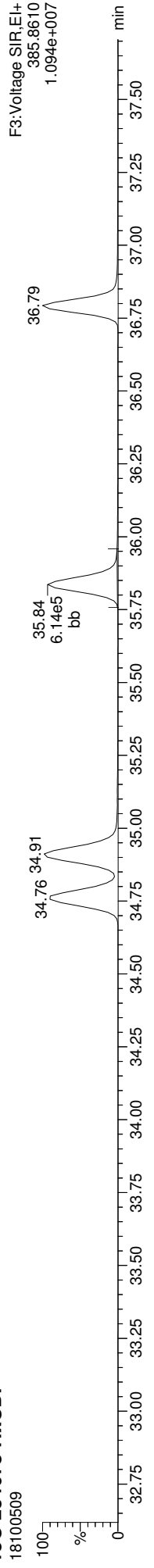
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

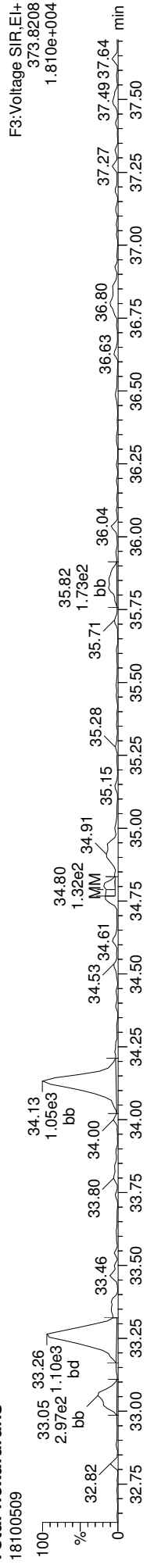
13C-234678-HxCDF



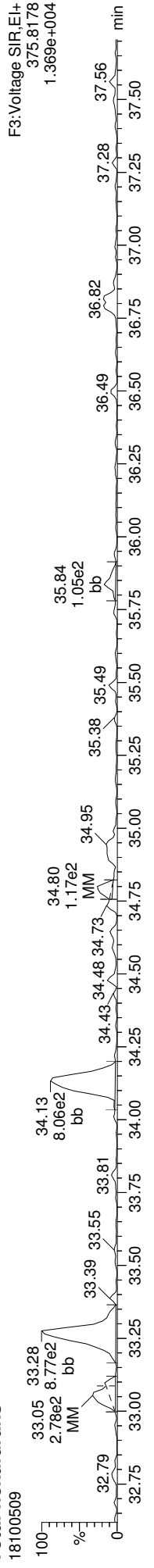
13C-234678-HxCDF



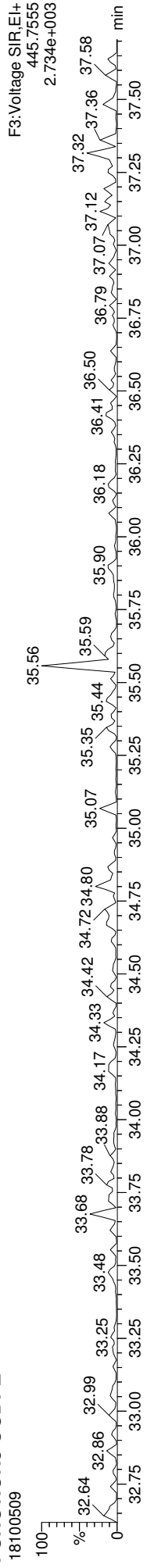
Total-hexafurans



Total-hexafurans



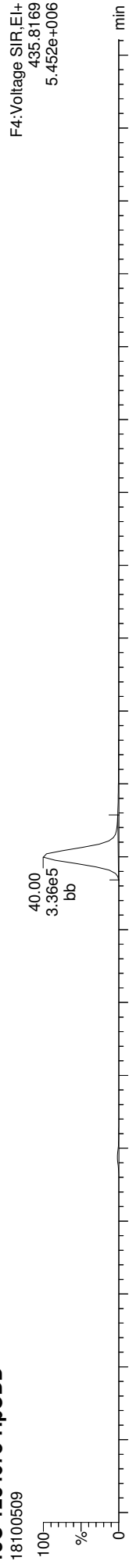
FUNCTION3 OCDPE



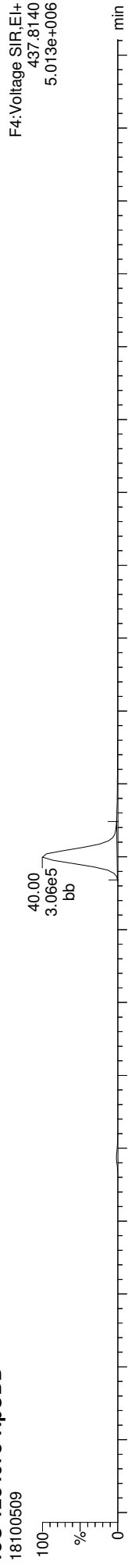
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

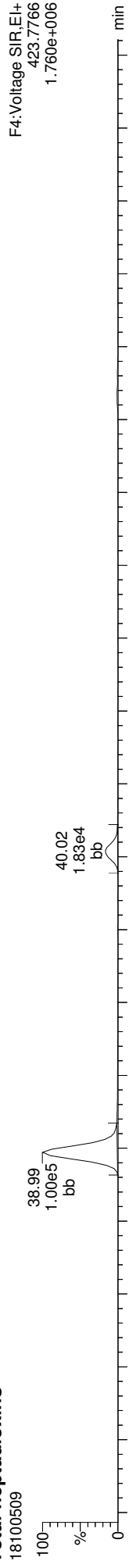
13C-1234678-HpCDD



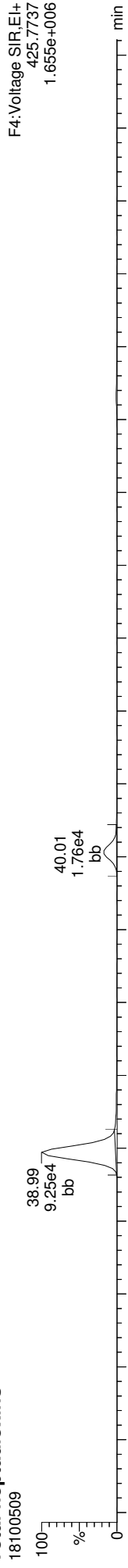
13C-1234678-HpCDD



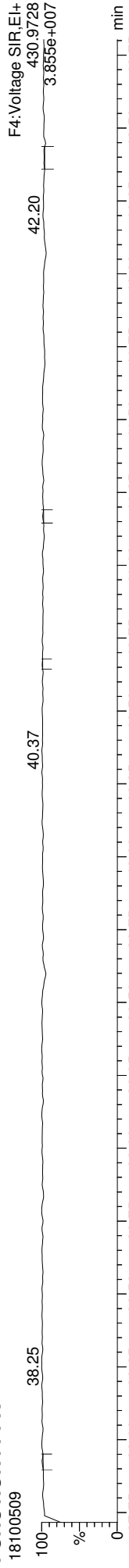
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

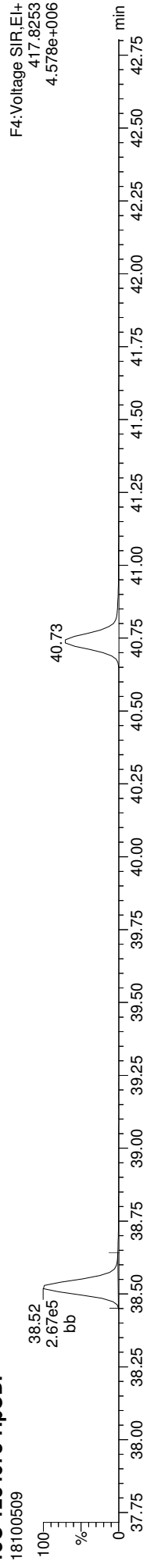


Quantify Sample Report

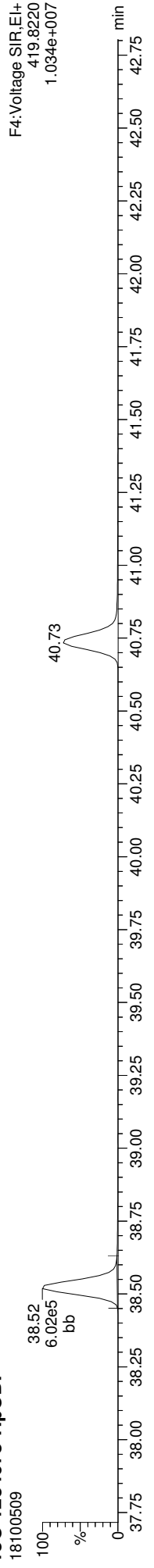
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

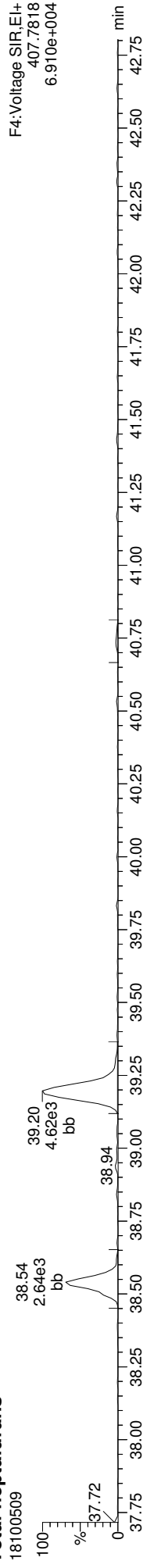
13C-1234678-HpCDF



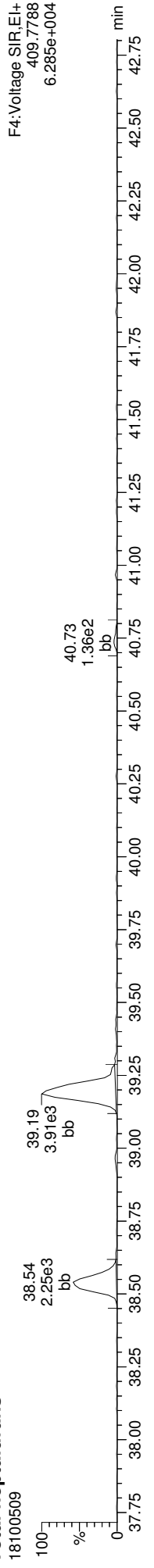
13C-1234678-HpCDF



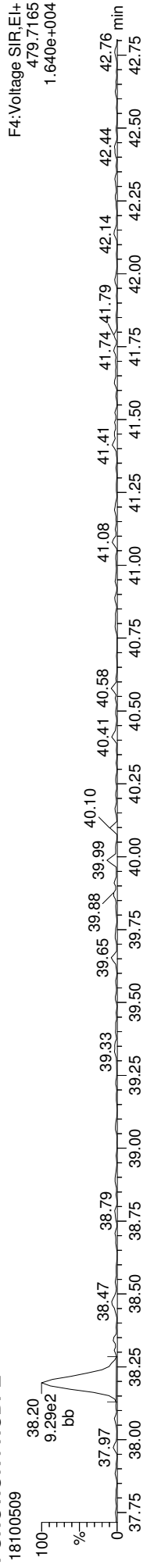
Total-heptafurans



Total-heptafurans



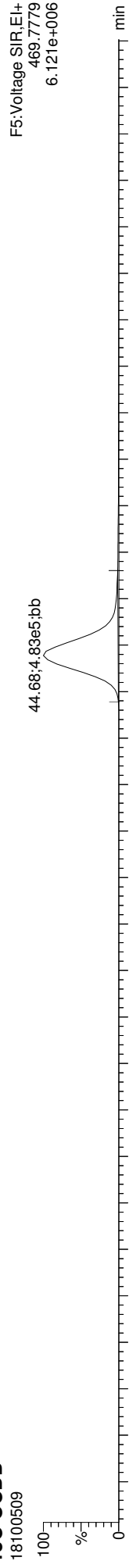
FUNCTION4 NCDPE



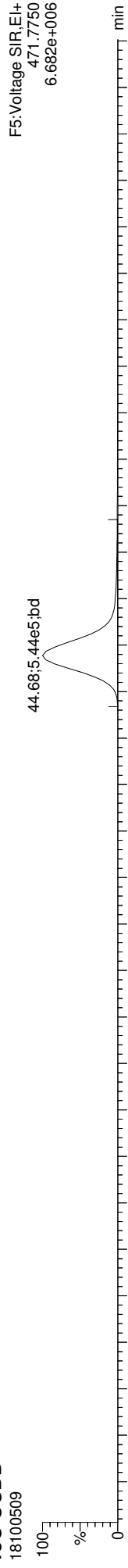
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

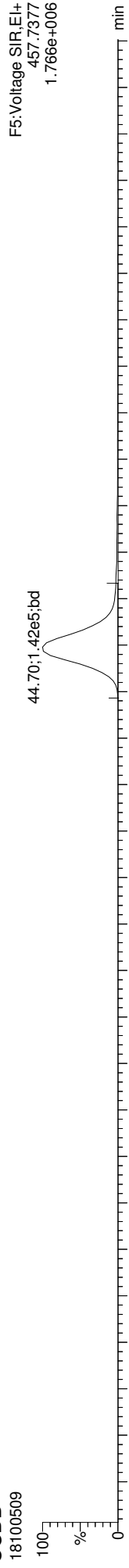
13C-OCDD



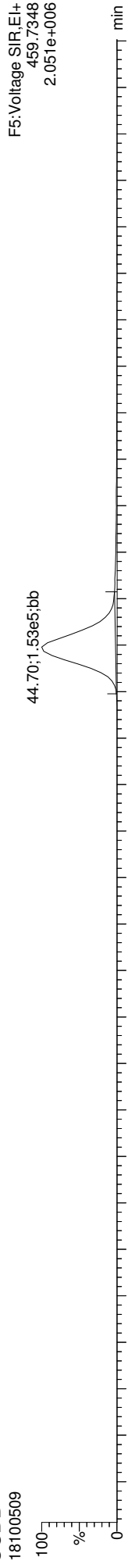
13C-OCDD



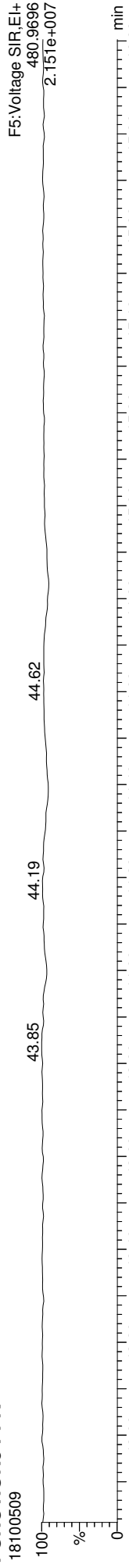
OCDD



OCDD



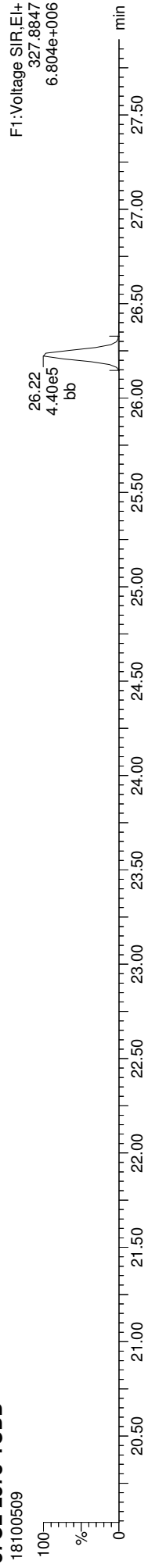
FUNCTION5 PFK



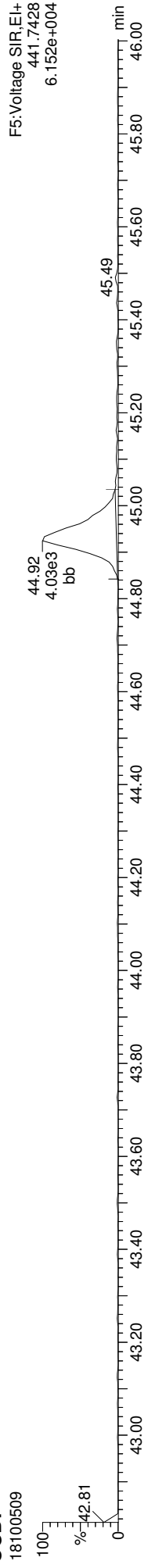
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:24:58 Pacific Daylight Time

ID: 1810285-01, Name: 18100509, Date: 05-Oct-2018, Time: 16:06:21, Conditions: AUTOSPEC01, User: PK

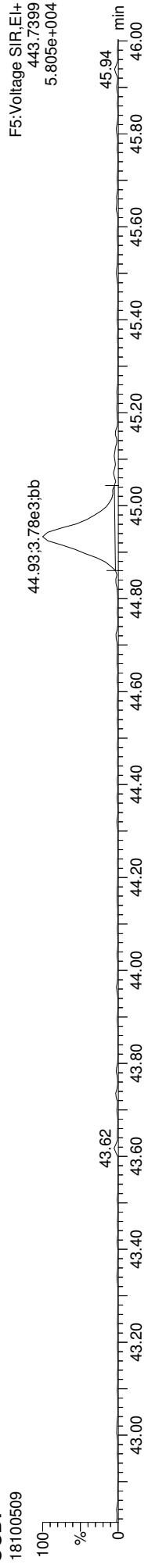
37CL-2378-TCDD



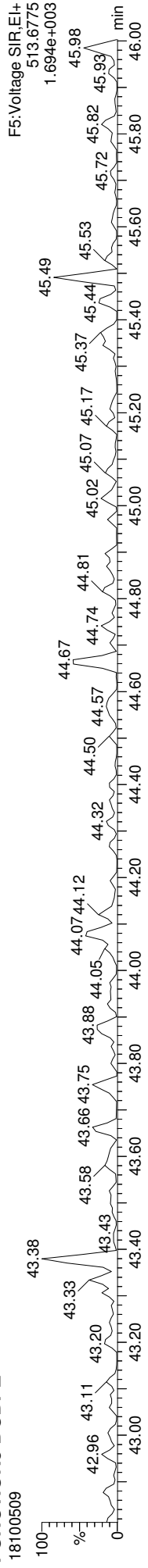
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 18I0285
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-02 File ID: 18100510
 Sampled: 09/17/18 12:05 Prepared: 10/02/18 16:00 Analyzed: 10/05/18 16:54
 % Solids: 49.28 Preparation: EPA 1613 Initial/Final: 20.34 g Wet / 20 uL
 Result Basis: Dry Sequence: SGJ0093 Calibration: BH00060
 Batch: BGI0793 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.798	0.655-0.886		0.998	1.49	ng/kg	
1746-01-6	2,3,7,8-TCDD	1	0.400	0.655-0.886		0.998	0.393	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.492	1.318-1.783		0.998	0.705	ng/kg	X, J, B
57117-31-4	2,3,4,7,8-PeCDF	1	1.372	1.318-1.783		0.998	0.575	ng/kg	J
40321-76-4	1,2,3,7,8-PeCDD	1	1.631	1.318-1.783		0.998	0.894	ng/kg	J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.377	1.054-1.426		0.998	0.776	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.355	1.054-1.426		0.998	0.501	ng/kg	J
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.550	1.054-1.426		0.998	0.515	ng/kg	EMPC, J
72918-21-9	1,2,3,7,8,9-HxCDF	1	2.296	1.054-1.426		0.998	0.278	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.137	1.054-1.426		0.998	0.647	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.292	1.054-1.426		0.998	3.28	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.206	1.054-1.426		0.998	1.13	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.027	0.893-1.208		0.998	12.6	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.072	0.893-1.208		0.998	0.606	ng/kg	J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.060	0.893-1.208		2.49	128	ng/kg	
39001-02-0	OCDF	1	1.009	0.757-1.024		2.00	33.5	ng/kg	
3268-87-9	OCDD	1	0.876	0.757-1.024		9.98	1310	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.998	24.5	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.998	24.2	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.998	11.1	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.998	13.0	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.998	22.0	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.998	66.4	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.998	37.0	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.998	647	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 4.16
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 4.16



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>18I0285-02</u>
Sampled:	<u>09/17/18 12:05</u>	Prepared:	<u>10/02/18 16:00</u>
Solids Wt%:	<u>49.28</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SGJ0093</u>
Batch:	<u>BGI0793</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>18I00510</u>
		Analyzed:	<u>10/05/18 16:54</u>
		Initial/Final:	<u>20.34 g / 20 uL</u>
		Calibration:	<u>BH00060</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.791	0.655-0.886		91.7	24 - 169 %	
13C12-2,3,7,8-TCDD		0.761	0.655-0.886		85.4	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.579	1.318-1.783		91.1	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.564	1.318-1.783		90.2	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.677	1.318-1.783		84.5	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.498	0.434-0.587		92.5	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.499	0.434-0.587		66.1	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.498	0.434-0.587		59.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.508	0.434-0.587		43.1	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.317	1.054-1.426		88.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.276	1.054-1.426		90.7	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.441	0.374-0.506		85.1	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.434	0.374-0.506		87.3	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.088	0.893-1.208		82.7	23 - 140 %	
13C12-OCDD		0.882	0.757-1.024		63.5	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			101	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820CIH.cdb 21 Aug 2018 11:13:54

ID: 1810285-02, **Name:** 18100510, **Date:** 05-Oct-2018, **Time:** 16:54:54, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.618	1.001	5.238e3	6.568e3	0.834	0.798	0.770	512	911	7.60e4	9.81e4	148.5	YES	NO	dd	bd	0.748
12378-PeCDF	29.781	1.001	2.860e3	1.917e3	0.852	1.492	1.550	928	1342	4.61e4	3.05e4	49.6	YES	NO	bb	bd	0.353
23478-PeCDF	31.150	1.001	2.449e3	1.785e3	0.944	1.372	1.550	928	1342	5.22e4	3.11e4	56.3	YES	NO	bb	db	0.288
123478-HxCDF	34.846	1.001	2.222e3	1.615e3	0.963	1.377	1.240	820	778	3.26e4	2.39e4	39.8	YES	NO	dd	dd	0.389
234678-HxCDF	35.958	1.001	9.816e2	6.331e2	0.991	1.550	1.240	820	778	1.69e4	1.24e4	20.4	YES	YES	MM	MM	0.258
123678-HxCDF	34.979	1.001	1.032e3	7.612e2	0.917	1.355	1.240	820	778	1.23e4	9.93e3	14.9	YES	NO	db	MM	0.251
123789-HxCDF	36.827	1.000	3.942e2	1.717e2	0.938	2.296	1.240	820	778	4.86e3	3.32e3	5.9	YES	YES	bb	bb	0.139
1234678-HpCDF	38.574	1.000	2.932e4	2.855e4	1.119	1.027	1.050	1122	884	5.18e5	4.84e5	461.5	YES	NO	bb	bd	6.297
1234789-HpCDF	40.778	1.000	1.222e3	1.140e3	1.162	1.072	1.050	1122	884	2.07e4	1.73e4	18.5	YES	NO	bb	bb	0.304
OCDF	44.971	1.006	4.264e4	4.226e4	1.145	1.009	0.890	711	635	5.03e5	5.49e5	707.6	YES	NO	bd	bb	16.778
2378-TCDD	26.268	1.001	6.188e2	1.546e3	0.982	0.400	0.770	833	549	8.86e3	2.14e4	10.6	YES	YES	bd	bd	0.197
12378-PeCDD	31.373	1.000	2.391e3	1.466e3	1.029	1.631	1.550	1080	1710	3.07e4	1.97e4	28.4	YES	NO	bb	bb	0.448
123478-HxCDD	36.059	1.000	1.389e3	1.221e3	0.921	1.137	1.240	1654	953	2.31e4	1.89e4	14.0	YES	NO	dd	bd	0.324
123678-HxCDD	36.170	1.000	7.694e3	5.953e3	0.904	1.292	1.240	1654	953	1.31e5	9.82e4	79.2	YES	NO	dd	dd	1.643
123789-HxCDD	36.526	1.010	2.549e3	2.113e3	0.918	1.206	1.240	1654	953	3.82e4	4.03e4	23.1	YES	NO	dd	bb	0.567
1234678-HpCDD	40.043	1.000	2.048e5	1.933e5	1.046	1.060	1.050	2889	2519	3.29e6	3.08e6	1140.1	YES	NO	bb	bb	63.908
OCDD	44.733	1.000	1.336e6	1.525e6	0.984	0.876	0.890	1184	2430	1.69e7	1.91e7	14289.3	YES	NO	bb	bb	658.147
13C-2378-TCDF	25.603	1.007	8.365e5	1.057e6	1.847	0.791	0.770	4136	1907	1.29e7	1.64e7	3131.2	YES	NO	bb	bb	91.719
13C-12378-PeCDF	29.759	1.171	9.719e5	6.155e5	1.558	1.579	1.550	1936	1845	1.51e7	9.69e6	7787.9	YES	NO	bb	bb	91.140
13C-23478-PeCDF	31.128	1.224	9.494e5	6.069e5	1.544	1.564	1.550	1936	1845	1.74e7	1.13e7	8988.3	YES	NO	bb	bb	90.168
13C-123478-HxCDF	34.823	0.954	3.402e5	6.836e5	1.152	0.498	0.510	1263	2681	5.04e6	9.95e6	3988.7	YES	NO	bd	bd	92.493
13C-123678-HxCDF	34.957	0.957	2.588e5	5.189e5	1.225	0.499	0.510	1263	2681	3.56e6	7.14e6	2814.9	YES	NO	db	db	66.091
13C-234678-HxCDF	35.936	0.984	2.101e5	4.220e5	1.104	0.498	0.510	1263	2681	3.44e6	6.99e6	2724.2	YES	NO	bb	bb	59.627
13C-123789-HxCDF	36.838	1.009	1.458e5	2.871e5	1.046	0.508	0.510	1263	2681	3.95e6	7.64e6	3124.4	YES	NO	bb	bb	43.105
13C-1234678-HpCDF	38.563	1.056	2.514e5	5.696e5	1.004	0.441	0.440	1501	1842	4.28e6	9.70e6	2851.0	YES	NO	bb	bb	85.108
13C-1234789-HpCDF	40.767	1.116	2.026e5	4.671e5	0.799	0.434	0.440	1501	1842	3.16e6	7.14e6	2105.0	YES	NO	bb	bb	87.298
13C-1234-TCDD	25.422	0.000	4.888e5	6.294e5	1.000	0.777	0.770	1484	854	7.77e6	1.00e7	5233.8	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.253	1.033	4.834e5	6.352e5	1.171	0.761	0.770	1484	854	7.15e6	9.30e6	4817.5	YES	NO	bb	bb	85.419
13C-12378-PeCDD	31.361	1.234	5.244e5	3.127e5	0.886	1.677	1.550	1034	710	8.19e6	4.94e6	7919.1	YES	NO	bb	bb	84.500
13C-123478-HxCDD	36.048	0.987	4.965e5	3.772e5	1.027	1.317	1.240	894	1204	8.15e6	6.16e6	9118.4	YES	NO	bd	bd	88.585
13C-123678-HxCDD	36.159	0.990	5.152e5	4.037e5	1.055	1.276	1.240	894	1204	8.57e6	6.82e6	9591.5	YES	NO	db	db	90.673
13C-1234678-HpCDD	40.032	1.096	3.102e5	2.850e5	0.749	1.088	1.050	1214	886	4.96e6	4.59e6	4081.0	YES	NO	bb	bb	82.741
13C-OCDD	44.715	1.225	4.142e5	4.697e5	0.725	0.882	0.890	1939	823	5.12e6	5.57e6	2641.6	YES	NO	bd	bd	126.963
13C-123789-HxCDD	36.515	0.000	5.379e5	4.225e5	1.000	1.273	1.240	894	1204	9.69e6	7.51e6	10840.9	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.268	1.033	5.071e5		1.121			463		7.77e6		16787.2	YES		bb		40.473

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
1368-TCDF	22.128	0.864	4.008e3	5.045e3	1.020	0.794	0.770	512	911	6.56e4	8.01e4	128.2	YES	NO	bb	bb	0.469	
1289-TCDF	27.129	1.060	4.677e2	2.689e2	0.818	1.739	0.770	512	911	7.21e3	4.14e3	14.1	YES	YES	db	dd	0.048	
13468-PECDF					1.163		1.550	368	587									
12389-PECDF					0.912		1.550	928	1342									
123468-HXCDF	33.087	0.950	4.247e3	3.322e3	1.051	1.278	1.240	820	778	6.38e4	5.21e4	77.8	YES	NO	bb	bb	0.703	
1368-TCDD	23.382	0.891	2.201e4	2.788e4	1.026	0.790	0.770	833	549	3.77e5	4.71e5	452.9	YES	NO	bb	bb	4.346	
1289-TCDD	26.888	1.024	3.606e2	2.256e2	0.938	1.598	0.770	833	549	5.40e3	3.27e3	6.5	YES	YES	db	db	0.056	
12479-PECDD					1.807		1.550	1080	1710									
12389-PECDD	31.773	1.013	8.762e2	4.903e2	1.326	1.787	1.550	1080	1710	1.10e4	7.65e3	10.2	YES	YES	bb	bb	0.123	
124679-HXCDD	34.055	0.945	8.007e3	6.686e3	1.031	1.198	1.240	1654	953	1.21e5	1.04e5	73.4	YES	NO	db	dd	1.630	
1234679-HPCDD	39.020	0.975	9.797e5	9.222e5	1.228	1.062	1.050	2889	2519	1.73e7	1.64e7	6005.6	YES	NO	bb	bb	260.206	
Total-tetrafurans			9.155e4		0.891			512		1.33e6							12.261	
Total-penta1			1.486e4					368		2.03e5							1.668	
Total-pentafurans			3.445e4		0.903			928		4.83e5							3.880	
Total-hexafurans			4.551e4		0.972			820		6.72e5							11.028	
Total-heptafurans			8.239e4		1.141			1122		1.42e6							18.526	
Total-Furans			3.114e5		0.989			512		4.61e6							64.142	
Total-tetraoxins			5.988e4		0.982			833		9.45e5							12.127	
Total-pentadioxins			4.575e4		1.387			1080		6.29e5							6.495	
Total-hexadioxins			1.553e5		0.944			1654		2.16e6							33.302	
Total-heptadioxins			1.185e6		1.137			2889		2.06e7							324.114	
Total-Dioxins			2.782e6		1.088			833		4.13e7							1034.184	
Total-TEQ			3.093e6					833		4.59e7							1098.326	
FUNCTION1 PFK			8.532e7		662514			662514		3.70e8							0.000	
FUNCTION2 PFK			2.536e7		434163			434163		6.95e7							0.000	
FUNCTION3 PFK			6.046e7		513762			513762		2.82e8							0.000	
FUNCTION4 PFK			1.880e7		252448			252448		9.09e7							0.000	
FUNCTION5 PFK			2.481e6		222262			222262		7.17e6							0.000	
FUNCTION1 HXCD...			1.587e4		297			297		2.27e5							0.000	
FUNCTION1 HPCD...			3.202e3		413			413		5.08e4							0.000	
FUNCTION2 HPCD...			7.143e2		478			478		1.41e4							0.000	
FUNCTION3 OCDPE			1.104e2		587			587		3.91e3							0.000	
FUNCTION4 NCDPE			8.399e3		487			487		1.42e5							0.000	
FUNCTION5 DCDPE			0.000e0		315			315		0.00e0							0.000	

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

TF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-tetraturans	24.36	3.372e3	3.741e3	0.891	0.90	0.77	100.2	YES	YES	dd	dd	0.422
Total-tetraturans	24.27	6.767e3	7.671e3	0.891	0.88	0.77	136.7	YES	NO	dd	MM	0.856
Total-tetraturans	24.14	3.479e2	8.389e2	0.891	0.41	0.77	14.7	YES	YES	dd	bd	0.070
Total-tetraturans	23.85	4.201e3	5.016e3	0.891	0.84	0.77	127.1	YES	NO	db	db	0.546
Total-tetraturans	23.71	1.762e3	2.435e3	0.891	0.72	0.77	62.3	YES	NO	dd	dd	0.249
Total-tetraturans	23.61	4.311e3	5.203e3	0.891	0.83	0.77	122.4	YES	NO	dd	bd	0.564
Total-tetraturans	23.46	4.227e3	4.728e3	0.891	0.89	0.77	116.6	YES	YES	dd	db	0.531
Total-tetraturans	23.37	2.738e3	3.668e3	0.891	0.75	0.77	97.0	YES	NO	dd	dd	0.380
Total-tetraturans	23.26	5.220e3	6.503e3	0.891	0.80	0.77	153.8	YES	NO	dd	dd	0.695
Total-tetraturans	23.14	1.050e4	1.418e4	0.891	0.74	0.77	251.1	YES	NO	dd	dd	1.463
Total-tetraturans	22.96	5.055e3	6.699e3	0.891	0.75	0.77	134.6	YES	NO	bd	bd	0.697
Total-tetraturans	22.39	2.371e3	3.126e3	0.891	0.76	0.77	77.4	YES	NO	bb	bb	0.326
1368-TCDF	22.13	4.008e3	5.045e3	1.020	0.79	0.77	128.2	YES	NO	bb	bb	0.469
1289-TCDF	27.13	4.677e2	2.689e2	0.818	1.74	0.77	14.1	YES	YES	db	dd	0.048
Total-tetraturans	27.04	1.381e3	6.099e2	0.891	2.26	0.77	38.2	YES	YES	bd	bd	0.118
Total-tetraturans	26.13	2.107e2	4.298e2	0.891	0.49	0.77	6.8	YES	YES	bb	bb	0.038
Total-tetraturans	25.86	5.296e3	7.690e3	0.891	0.69	0.77	161.9	YES	NO	dd	db	0.770
Total-tetraturans	25.75	1.916e3	2.089e3	0.891	0.92	0.77	58.8	YES	YES	dd	dd	0.237
2378-TCDF	25.62	5.238e3	6.568e3	0.834	0.80	0.77	148.5	YES	NO	dd	bd	0.748
Total-tetraturans	25.45	2.018e3	2.880e3	0.891	0.70	0.77	69.8	YES	NO	dd	db	0.290
Total-tetraturans	25.39	2.517e3	2.498e3	0.891	1.01	0.77	78.7	YES	YES	dd	dd	0.297
Total-tetraturans	25.26	4.535e2	7.067e2	0.891	0.64	0.77	13.4	YES	YES	dd	dd	0.069
Total-tetraturans	25.12	2.329e3	2.159e3	0.891	1.08	0.77	62.0	YES	YES	dd	bd	0.266
Total-tetraturans	24.94	2.715e3	3.917e3	0.891	0.69	0.77	76.1	YES	NO	bd	bb	0.393
Total-tetraturans	24.70	6.305e3	9.160e3	0.891	0.69	0.77	187.6	YES	NO	bb	bb	0.917
Total-tetraturans	24.52	5.825e3	7.724e3	0.891	0.75	0.77	161.2	YES	NO	db	db	0.803

PP

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-penta1	27.07	1.486e4	9.429e3		1.58	1.55	550.4	YES	NO	bb	bb	1.668

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

PF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-pentafurans	29.99	2.047e3	1.251e3	0.903	1.64	1.55	36.1	YES	NO	bd	dd	0.232
2 12378-PeCDF	29.78	2.860e3	1.917e3	0.852	1.49	1.55	49.6	YES	NO	bb	bd	0.353
3 Total-pentafurans	29.42	4.141e3	2.169e3	0.903	1.91	1.55	50.2	YES	YES	MM	bb	0.445
4 Total-pentafurans	29.11	3.439e2	1.897e2	0.903	1.81	1.55	7.6	YES	YES	bb	bd	0.038
5 Total-pentafurans	28.93	5.126e2	2.976e2	0.903	1.72	1.55	10.9	YES	NO	db	db	0.057
6 Total-pentafurans	28.81	5.401e3	3.351e3	0.903	1.61	1.55	75.0	YES	NO	dd	dd	0.617
7 Total-pentafurans	28.73	5.925e3	3.778e3	0.903	1.57	1.55	85.9	YES	NO	dd	dd	0.684
8 Total-pentafurans	28.61	3.829e3	2.240e3	0.903	1.71	1.55	41.7	YES	NO	MM	dd	0.428
9 Total-pentafurans	28.49	1.532e3	7.170e2	0.903	2.14	1.55	24.8	YES	YES	dd	bd	0.158
10 23478-PeCDF	31.15	2.449e3	1.785e3	0.944	1.37	1.55	56.3	YES	NO	bb	db	0.288
11 Total-pentafurans	30.98	9.550e2	5.600e2	0.903	1.71	1.55	14.6	YES	NO	db	MM	0.107
12 Total-pentafurans	30.87	2.798e3	1.502e3	0.903	1.86	1.55	41.2	YES	YES	bd	bd	0.303
13 Total-pentafurans	30.26	2.865e2	2.891e2	0.903	0.99	1.55	5.3	YES	YES	bb	db	0.041
14 Total-pentafurans	30.08	1.367e3	4.824e2	0.903	2.83	1.55	21.3	YES	YES	db	dd	0.130

HF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-hexafurans	33.31	1.435e4	1.135e4	0.972	1.26	1.24	264.8	YES	NO	bb	bb	3.689
2 123468-HxCDF	33.09	4.247e3	3.322e3	1.051	1.28	1.24	77.8	YES	NO	bb	bb	0.703
3 123789-HxCDF	36.83	3.942e2	1.717e2	0.938	2.30	1.24	5.9	YES	YES	bb	bb	0.139
4 234678-HxCDF	35.96	9.816e2	6.331e2	0.991	1.55	1.24	20.4	YES	YES	MM	MM	0.258
5 123678-HxCDF	34.98	1.032e3	7.612e2	0.917	1.36	1.24	14.9	YES	NO	db	MM	0.251
6 123478-HxCDF	34.85	2.222e3	1.615e3	0.963	1.38	1.24	39.8	YES	NO	dd	dd	0.389
7 Total-hexafurans	34.67	7.690e2	5.389e2	0.972	1.43	1.24	14.9	YES	YES	dd	dd	0.188
8 Total-hexafurans	34.53	3.415e2	2.984e2	0.972	1.14	1.24	7.4	YES	NO	bd	bd	0.092
9 Total-hexafurans	34.17	2.011e4	1.504e4	0.972	1.34	1.24	351.0	YES	NO	db	db	5.046
10 Total-hexafurans	34.07	3.869e2	3.884e2	0.972	1.00	1.24	10.1	YES	YES	bd	bd	0.111
11 Total-hexafurans	33.84	6.778e2	4.465e2	0.972	1.52	1.24	12.8	YES	YES	bb	bb	0.161

HPF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 1234789-HpCDF	40.78	1.222e3	1.140e3	1.162	1.07	1.05	18.5	YES	NO	bb	bb	0.304
2 Total-heptafurans	39.22	5.141e4	4.882e4	1.141	1.05	1.05	779.0	YES	NO	bb	bb	11.789
3 Total-heptafurans	39.00	4.332e2	7.345e2	1.141	0.59	1.05	8.1	YES	YES	bd	bb	0.137
4 1234678-HpCDF	38.57	2.932e4	2.855e4	1.119	1.03	1.05	461.5	YES	NO	bb	bd	6.297

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HIF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetraturans	24.36	3.372e3	3.741e3	0.891	0.90	100.2	YES	YES	dd	dd	0.422
2	Total-tetraturans	24.27	6.767e3	7.671e3	0.891	0.88	136.7	YES	NO	dd	MM	0.856
3	Total-tetraturans	24.14	3.479e2	8.389e2	0.891	0.41	14.7	YES	YES	dd	bd	0.070
4	Total-tetraturans	23.85	4.201e3	5.016e3	0.891	0.84	127.1	YES	NO	db	db	0.546
5	Total-tetraturans	23.71	1.762e3	2.435e3	0.891	0.72	62.3	YES	NO	dd	dd	0.249
6	Total-tetraturans	23.61	4.311e3	5.203e3	0.891	0.83	122.4	YES	NO	dd	bd	0.564
7	Total-tetraturans	23.46	4.227e3	4.728e3	0.891	0.89	116.6	YES	YES	dd	db	0.531
8	Total-tetraturans	23.37	2.738e3	3.668e3	0.891	0.75	97.0	YES	NO	dd	dd	0.380
9	Total-tetraturans	23.26	5.220e3	6.503e3	0.891	0.80	153.8	YES	NO	dd	dd	0.695
10	Total-tetraturans	23.14	1.050e4	1.418e4	0.891	0.74	251.1	YES	NO	dd	dd	1.463
11	Total-tetraturans	22.96	5.055e3	6.699e3	0.891	0.75	134.6	YES	NO	bd	bd	0.697
12	Total-tetraturans	22.39	2.371e3	3.126e3	0.891	0.76	77.4	YES	NO	bb	bb	0.326
13	1368-TCDF	22.13	4.008e3	5.045e3	1.020	0.79	128.2	YES	NO	bb	bb	0.469
14	1289-TCDF	27.13	4.677e2	2.689e2	0.818	1.74	14.1	YES	YES	db	dd	0.048
15	Total-tetraturans	27.04	1.381e3	6.099e2	0.891	2.26	38.2	YES	YES	bd	bd	0.118
16	Total-tetraturans	26.13	2.107e2	4.298e2	0.891	0.49	6.8	YES	YES	bb	bb	0.038
17	Total-tetraturans	25.86	5.296e3	7.690e3	0.891	0.69	161.9	YES	NO	dd	db	0.770
18	Total-tetraturans	25.75	1.916e3	2.089e3	0.891	0.92	58.8	YES	YES	dd	dd	0.237
19	2378-TCDF	25.62	5.238e3	6.568e3	0.834	0.80	148.5	YES	NO	dd	bd	0.748
20	Total-tetraturans	25.45	2.018e3	2.880e3	0.891	0.70	69.8	YES	NO	dd	db	0.290
21	Total-tetraturans	25.39	2.517e3	2.498e3	0.891	1.01	78.7	YES	YES	dd	dd	0.297
22	Total-tetraturans	25.26	4.535e2	7.067e2	0.891	0.64	13.4	YES	YES	dd	dd	0.069
23	Total-tetraturans	25.12	2.329e3	2.159e3	0.891	1.08	62.0	YES	YES	dd	bd	0.266
24	Total-tetraturans	24.94	2.715e3	3.917e3	0.891	0.69	76.1	YES	NO	bd	bb	0.393
25	Total-tetraturans	24.70	6.305e3	9.160e3	0.891	0.69	187.6	YES	NO	bb	bb	0.917
26	Total-tetraturans	24.52	5.825e3	7.724e3	0.891	0.75	161.2	YES	NO	db	db	0.803
27	Total-pentaturans	29.99	2.047e3	1.251e3	0.903	1.64	36.1	YES	NO	bd	dd	0.232
28	12378-PeCDF	29.78	2.860e3	1.917e3	0.852	1.49	49.6	YES	NO	bb	bd	0.353
29	Total-pentaturans	29.42	4.141e3	2.169e3	0.903	1.91	50.2	YES	YES	MM	bb	0.445
30	Total-pentaturans	29.11	3.439e2	1.897e2	0.903	1.81	7.6	YES	YES	bb	bd	0.038
31	Total-pentaturans	28.93	5.126e2	2.976e2	0.903	1.72	10.9	YES	NO	db	db	0.057
32	Total-pentaturans	28.81	5.401e3	3.351e3	0.903	1.61	75.0	YES	NO	dd	dd	0.617
33	Total-pentaturans	28.73	5.925e3	3.778e3	0.903	1.57	85.9	YES	NO	dd	dd	0.684
34	Total-pentaturans	28.61	3.829e3	2.240e3	0.903	1.71	41.7	YES	NO	MM	dd	0.428
35	Total-pentaturans	28.49	1.532e3	7.170e2	0.903	2.14	24.8	YES	YES	dd	bd	0.158
36	23478-PeCDF	31.15	2.449e3	1.785e3	0.944	1.37	56.3	YES	NO	bb	db	0.288
37	Total-pentaturans	30.98	9.550e2	5.600e2	0.903	1.71	14.6	YES	NO	db	MM	0.107

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Furans,TF,PP,PF,HIF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-pentafurans	30.87	2.798e3	1.502e3	0.903	1.86	41.2	YES	YES	bd	bd	0.303
39	Total-pentafurans	30.26	2.865e2	2.891e2	0.903	0.99	5.3	YES	YES	bb	db	0.041
40	Total-pentafurans	30.08	1.367e3	4.824e2	0.903	2.83	21.3	YES	YES	db	dd	0.130
41	Total-hexafurans	33.31	1.435e4	1.135e4	0.972	1.26	264.8	YES	NO	bb	bb	3.689
42	123468-HxCDF	33.09	4.247e3	3.322e3	1.051	1.28	77.8	YES	NO	bb	bb	0.703
43	123789-HxCDF	36.83	3.942e2	1.717e2	0.938	2.30	5.9	YES	YES	bb	bb	0.139
44	234678-HxCDF	35.96	9.816e2	6.331e2	0.991	1.55	20.4	YES	YES	MM	MM	0.258
45	123678-HxCDF	34.98	1.032e3	7.612e2	0.917	1.36	14.9	YES	NO	db	MM	0.251
46	123478-HxCDF	34.85	2.222e3	1.615e3	0.963	1.38	39.8	YES	NO	dd	dd	0.389
47	Total-hexafurans	34.67	7.690e2	5.389e2	0.972	1.43	14.9	YES	YES	dd	dd	0.188
48	Total-hexafurans	34.53	3.415e2	2.984e2	0.972	1.14	7.4	YES	NO	bd	bd	0.092
49	Total-hexafurans	34.17	2.011e4	1.504e4	0.972	1.34	351.0	YES	NO	db	db	5.046
50	Total-hexafurans	34.07	3.869e2	3.884e2	0.972	1.00	10.1	YES	YES	bd	bd	0.111
51	Total-hexafurans	33.84	6.778e2	4.465e2	0.972	1.52	12.8	YES	YES	bb	bb	0.161
52	1234789-HpCDF	40.78	1.222e3	1.140e3	1.162	1.07	18.5	YES	NO	bb	bb	0.304
53	Total-heptafurans	39.22	5.141e4	4.882e4	1.141	1.05	779.0	YES	NO	bb	bb	11.789
54	Total-heptafurans	39.00	4.332e2	7.345e2	1.141	0.59	8.1	YES	YES	bd	bb	0.137
55	1234678-HpCDF	38.57	2.932e4	2.855e4	1.119	1.03	461.5	YES	NO	bb	bd	6.297
56	OCDF	44.97	4.264e4	4.226e4	1.145	1.01	89	YES	NO	bd	bb	16.778
57	Total-penta1	27.07	1.486e4	9.429e3	1.58	1.58	550.4	YES	NO	bb	bb	1.668

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-tetraoxins	25.45	4.343e3	5.466e3	0.982	0.79	0.77	76.3	YES	NO	bb	dd	0.893
Total-tetraoxins	25.24	1.095e3	1.317e3	0.982	0.83	0.77	22.6	YES	NO	db	dd	0.220
Total-tetraoxins	25.15	3.276e2	2.850e2	0.982	1.15	0.77	5.0	YES	YES	bd	bd	0.056
Total-tetraoxins	24.86	4.954e3	5.874e3	0.982	0.84	0.77	87.9	YES	NO	bb	bb	0.986
Total-tetraoxins	24.59	3.219e3	4.163e3	0.982	0.77	0.77	58.0	YES	NO	bb	bb	0.672
Total-tetraoxins	24.36	3.511e2	3.711e2	0.982	0.95	0.77	6.5	YES	YES	bb	bb	0.066
Total-tetraoxins	23.87	1.003e3	9.306e2	0.982	1.08	0.77	20.9	YES	YES	db	db	0.176
Total-tetraoxins	23.78	8.282e2	9.341e2	0.982	0.89	0.77	14.8	YES	YES	dd	dd	0.160
Total-tetraoxins	23.65	1.486e4	1.898e4	0.982	0.78	0.77	281.7	YES	NO	bd	bd	3.081
1368-TCDD	23.38	2.201e4	2.788e4	1.026	0.79	0.77	452.9	YES	NO	bb	bb	4.346
1289-TCDD	26.89	3.606e2	2.256e2	0.938	1.60	0.77	6.5	YES	YES	db	db	0.056
Total-tetraoxins	26.39	8.731e2	1.055e3	0.982	0.83	0.77	14.4	YES	NO	db	db	0.176
2378-TCDD	26.27	6.188e2	1.546e3	0.982	0.40	0.77	10.6	YES	YES	bd	bd	0.197
Total-tetraoxins	25.89	4.722e3	5.950e3	0.982	0.79	0.77	68.2	YES	NO	bb	bb	0.972
Total-tetraoxins	25.59	3.178e2	4.715e2	0.982	0.67	0.77	8.0	YES	NO	bb	dd	0.072

PD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-pentadioxins	29.20	1.114e3	7.801e2	1.387	1.43	1.55	18.9	YES	NO	bb	bb	0.163
Total-pentadioxins	28.77	1.161e4	6.802e3	1.387	1.71	1.55	105.9	YES	NO	bb	MM	1.585
12389-PECDD	31.77	8.762e2	4.903e2	1.326	1.79	1.55	10.2	YES	YES	bb	bb	0.123
12378-PeCDD	31.37	2.391e3	1.466e3	1.029	1.63	1.55	28.4	YES	NO	bb	bb	0.448
Total-pentadioxins	30.82	2.061e3	1.153e3	1.387	1.79	1.55	31.0	YES	YES	db	db	0.277
Total-pentadioxins	30.72	5.559e3	3.445e3	1.387	1.61	1.55	74.7	YES	NO	bd	bd	0.775
Total-pentadioxins	30.32	2.437e3	1.362e3	1.387	1.79	1.55	22.9	YES	YES	MM	db	0.327
Total-pentadioxins	30.14	7.482e3	5.192e3	1.387	1.44	1.55	106.8	YES	NO	dd	dd	1.091
Total-pentadioxins	29.98	2.052e3	1.219e3	1.387	1.68	1.55	30.0	YES	NO	bd	bd	0.282
Total-pentadioxins	29.78	1.017e4	6.355e3	1.387	1.60	1.55	153.5	YES	NO	bb	bd	1.423

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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HD

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	124679-HxCDD	34.06	8.007e3	6.686e3	1.031	1.20	1.24	73.4	YES	NO	db	dd	1.630
2	Total-hexadioxins	33.89	5.577e4	4.476e4	0.944	1.25	1.24	515.7	YES	NO	bd	bd	11.888
3	123789-HxCDD	36.53	2.549e3	2.113e3	0.918	1.21	1.24	23.1	YES	NO	dd	bb	0.567
4	Total-hexadioxins	36.33	3.033e3	2.312e3	0.944	1.31	1.24	31.8	YES	NO	dd	db	0.632
5	123678-HxCDD	36.17	7.694e3	5.953e3	0.904	1.29	1.24	79.2	YES	NO	dd	dd	1.643
6	123478-HxCDD	36.06	1.389e3	1.221e3	0.921	1.14	1.24	14.0	YES	NO	dd	bd	0.324
7	Total-hexadioxins	35.24	1.203e4	1.019e4	0.944	1.18	1.24	104.8	YES	NO	db	db	2.628
8	Total-hexadioxins	35.11	3.480e4	2.928e4	0.944	1.19	1.24	202.9	YES	NO	bd	bd	7.578
9	Total-hexadioxins	34.71	2.098e4	1.667e4	0.944	1.26	1.24	176.2	YES	NO	bd	bb	4.451
10	Total-hexadioxins	34.53	9.042e3	7.525e3	0.944	1.20	1.24	88.1	YES	NO	bb	bb	1.959

HPD

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	1234678-HpCDD	40.04	2.048e5	1.933e5	1.046	1.06	1.05	1140.1	YES	NO	bb	bb	63.908
2	1234679-HpCDD	39.02	9.797e5	9.222e5	1.228	1.06	1.05	6005.6	YES	NO	bb	bb	260.206

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Dioxins,TD,PD,HD,HPCDD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetradoxins	25.45	4.343e3	5.466e3	0.982	0.79	0.77	76.3	YES	NO	bb	dd	0.893
2 Total-tetradoxins	25.24	1.095e3	1.317e3	0.982	0.83	0.77	22.6	YES	NO	db	dd	0.220
3 Total-tetradoxins	25.15	3.276e2	2.850e2	0.982	1.15	0.77	5.0	YES	YES	bd	bd	0.056
4 Total-tetradoxins	24.86	4.954e3	5.874e3	0.982	0.84	0.77	87.9	YES	NO	bb	bb	0.986
5 Total-tetradoxins	24.59	3.219e3	4.163e3	0.982	0.77	0.77	58.0	YES	NO	bb	bb	0.672
6 Total-tetradoxins	24.36	3.511e2	3.711e2	0.982	0.95	0.77	6.5	YES	YES	bb	bb	0.066
7 Total-tetradoxins	23.87	1.003e3	9.306e2	0.982	1.08	0.77	20.9	YES	YES	db	db	0.176
8 Total-tetradoxins	23.78	8.282e2	9.341e2	0.982	0.89	0.77	14.8	YES	YES	dd	dd	0.160
9 Total-tetradoxins	23.65	1.486e4	1.898e4	0.982	0.78	0.77	281.7	YES	NO	bd	bd	3.081
10 1368-TCDD	23.38	2.201e4	2.788e4	1.026	0.79	0.77	452.9	YES	NO	bb	bb	4.346
11 1289-TCDD	26.89	3.606e2	2.256e2	0.938	1.60	0.77	6.5	YES	YES	db	db	0.056
12 Total-tetradoxins	26.39	8.731e2	1.055e3	0.982	0.83	0.77	14.4	YES	NO	db	db	0.176
13 2378-TCDD	26.27	6.188e2	1.546e3	0.982	0.40	0.77	10.6	YES	YES	bd	bd	0.197
14 Total-tetradoxins	25.89	4.722e3	5.950e3	0.982	0.79	0.77	68.2	YES	NO	bb	bb	0.972
15 Total-tetradoxins	25.59	3.178e2	4.715e2	0.982	0.67	0.77	8.0	YES	NO	bb	dd	0.072
16 Total-pentadoxins	29.20	1.114e3	7.801e2	1.387	1.43	1.55	18.9	YES	NO	bb	bb	0.163
17 Total-pentadoxins	28.77	1.161e4	6.802e3	1.387	1.71	1.55	105.9	YES	NO	bb	MM	1.585
18 12389-PECDD	31.77	8.762e2	4.903e2	1.326	1.79	1.55	10.2	YES	YES	bb	bb	0.123
19 12378-PeCDD	31.37	2.391e3	1.466e3	1.029	1.63	1.55	28.4	YES	NO	bb	bb	0.448
20 Total-pentadoxins	30.82	2.061e3	1.153e3	1.387	1.79	1.55	31.0	YES	YES	db	db	0.277
21 Total-pentadoxins	30.72	5.559e3	3.445e3	1.387	1.61	1.55	74.7	YES	NO	bd	bd	0.775
22 Total-pentadoxins	30.32	2.437e3	1.362e3	1.387	1.79	1.55	22.9	YES	YES	MM	db	0.327
23 Total-pentadoxins	30.14	7.482e3	5.192e3	1.387	1.44	1.55	106.8	YES	NO	dd	dd	1.091
24 Total-pentadoxins	29.98	2.052e3	1.219e3	1.387	1.68	1.55	30.0	YES	NO	bd	bd	0.282
25 Total-pentadoxins	29.78	1.017e4	6.355e3	1.387	1.60	1.55	153.5	YES	NO	bb	bd	1.423
26 124679-HXCDD	34.06	8.007e3	6.686e3	1.031	1.20	1.24	73.4	YES	NO	db	dd	1.630
27 Total-hexadoxins	33.89	5.577e4	4.476e4	0.944	1.25	1.24	515.7	YES	NO	bd	bd	11.888
28 123789-HxCDD	36.53	2.549e3	2.113e3	0.918	1.21	1.24	23.1	YES	NO	dd	bb	0.567
29 Total-hexadoxins	36.33	3.033e3	2.312e3	0.944	1.31	1.24	31.8	YES	NO	dd	db	0.632
30 123678-HxCDD	36.17	7.694e3	5.953e3	0.904	1.29	1.24	79.2	YES	NO	dd	dd	1.643
31 123478-HxCDD	36.06	1.389e3	1.221e3	0.921	1.14	1.24	14.0	YES	NO	dd	bd	0.324
32 Total-hexadoxins	35.24	1.203e4	1.019e4	0.944	1.18	1.24	104.8	YES	NO	db	db	2.628
33 Total-hexadoxins	35.11	3.480e4	2.928e4	0.944	1.19	1.24	202.9	YES	NO	bd	bd	7.578
34 Total-hexadoxins	34.71	2.098e4	1.667e4	0.944	1.26	1.24	176.2	YES	NO	bd	bb	4.451
35 Total-hexadoxins	34.53	9.042e3	7.525e3	0.944	1.20	1.24	88.1	YES	NO	bb	bb	1.959
36 1234678-HpCDD	40.04	2.048e5	1.933e5	1.046	1.06	1.05	1140.1	YES	NO	bb	bb	63.908
37 1234679-HPCDD	39.02	9.797e5	9.222e5	1.228	1.06	1.05	6005.6	YES	NO	bb	bb	260.206

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Dioxins,TD,PD,HD,HDPD,OD

38	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	OCDD	44.73	1.336e6	1.525e6	0.984	0.88	0.89	14289.3	YES	NO	bb	bb	658.147

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TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	24.36	3.372e3	3.741e3	0.891	0.90	0.77	100.2	YES	YES	dd	dd	0.422
2 Total-tetraturans	24.27	6.767e3	7.671e3	0.891	0.88	0.77	136.7	YES	NO	dd	MM	0.856
3 Total-tetraturans	24.14	3.479e2	8.389e2	0.891	0.41	0.77	14.7	YES	YES	dd	bd	0.070
4 Total-tetraturans	23.85	4.201e3	5.016e3	0.891	0.84	0.77	127.1	YES	NO	db	db	0.546
5 Total-tetraturans	23.71	1.762e3	2.435e3	0.891	0.72	0.77	62.3	YES	NO	dd	dd	0.249
6 Total-tetraturans	23.61	4.311e3	5.203e3	0.891	0.83	0.77	122.4	YES	NO	dd	bd	0.564
7 Total-tetraturans	23.46	4.227e3	4.728e3	0.891	0.89	0.77	116.6	YES	YES	dd	db	0.531
8 Total-tetraturans	23.37	2.738e3	3.668e3	0.891	0.75	0.77	97.0	YES	NO	dd	dd	0.380
9 Total-tetraturans	23.26	5.220e3	6.503e3	0.891	0.80	0.77	153.8	YES	NO	dd	dd	0.695
10 Total-tetraturans	23.14	1.050e4	1.418e4	0.891	0.74	0.77	251.1	YES	NO	dd	dd	1.463
11 Total-tetraturans	22.96	5.055e3	6.699e3	0.891	0.75	0.77	134.6	YES	NO	bd	bd	0.697
12 Total-tetraturans	22.39	2.371e3	3.126e3	0.891	0.76	0.77	77.4	YES	NO	bb	bb	0.326
13 1368-TCDF	22.13	4.008e3	5.045e3	1.020	0.79	0.77	128.2	YES	NO	bb	bb	0.469
14 1289-TCDF	27.13	4.677e2	2.689e2	0.818	1.74	0.77	14.1	YES	YES	db	dd	0.048
15 Total-tetraturans	27.04	1.381e3	6.099e2	0.891	2.26	0.77	38.2	YES	YES	bd	bd	0.118
16 Total-tetraturans	26.13	2.107e2	4.298e2	0.891	0.49	0.77	6.8	YES	YES	bb	bb	0.038
17 Total-tetraturans	25.86	5.296e3	7.690e3	0.891	0.69	0.77	161.9	YES	NO	dd	db	0.770
18 Total-tetraturans	25.75	1.916e3	2.089e3	0.891	0.92	0.77	58.8	YES	YES	dd	dd	0.237
19 2378-TCDF	25.62	5.238e3	6.568e3	0.834	0.80	0.77	148.5	YES	NO	dd	bd	0.748
20 Total-tetraturans	25.45	2.018e3	2.880e3	0.891	0.70	0.77	69.8	YES	NO	dd	db	0.290
21 Total-tetraturans	25.39	2.517e3	2.498e3	0.891	1.01	0.77	78.7	YES	YES	dd	dd	0.297
22 Total-tetraturans	25.26	4.535e2	7.067e2	0.891	0.64	0.77	13.4	YES	YES	dd	dd	0.069
23 Total-tetraturans	25.12	2.329e3	2.159e3	0.891	1.08	0.77	62.0	YES	YES	dd	bd	0.266
24 Total-tetraturans	24.94	2.715e3	3.917e3	0.891	0.69	0.77	76.1	YES	NO	bd	bb	0.393
25 Total-tetraturans	24.70	6.305e3	9.160e3	0.891	0.69	0.77	187.6	YES	NO	bb	bb	0.917
26 Total-tetraturans	24.52	5.825e3	7.724e3	0.891	0.75	0.77	161.2	YES	NO	db	db	0.803
27 Total-pentaturans	29.99	2.047e3	1.251e3	0.903	1.64	1.55	36.1	YES	NO	bd	dd	0.232
28 12378-PeCDF	29.78	2.860e3	1.917e3	0.852	1.49	1.55	49.6	YES	NO	bb	bd	0.353
29 Total-pentaturans	29.42	4.141e3	2.169e3	0.903	1.91	1.55	50.2	YES	YES	MM	bb	0.445
30 Total-pentaturans	29.11	3.439e2	1.897e2	0.903	1.81	1.55	7.6	YES	YES	bb	bd	0.038
31 Total-pentaturans	28.93	5.126e2	2.976e2	0.903	1.72	1.55	10.9	YES	NO	db	db	0.057
32 Total-pentaturans	28.81	5.401e3	3.351e3	0.903	1.61	1.55	75.0	YES	NO	dd	dd	0.617
33 Total-pentaturans	28.73	5.925e3	3.778e3	0.903	1.57	1.55	85.9	YES	NO	dd	dd	0.684
34 Total-pentaturans	28.61	3.829e3	2.240e3	0.903	1.71	1.55	41.7	YES	NO	MM	dd	0.428
35 Total-pentaturans	28.49	1.532e3	7.170e2	0.903	2.14	1.55	24.8	YES	YES	dd	bd	0.158
36 23478-PeCDF	31.15	2.449e3	1.785e3	0.944	1.37	1.55	56.3	YES	NO	bb	db	0.288
37 Total-pentaturans	30.98	9.550e2	5.600e2	0.903	1.71	1.55	14.6	YES	NO	db	MM	0.107

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
38	Total-pentafurans	30.87	2.798e3	1.502e3	0.903	1.86	41.2	YES	YES	bd	bd	0.303	
39	Total-pentafurans	30.26	2.865e2	2.891e2	0.903	1.55	5.3	YES	YES	bb	db	0.041	
40	Total-pentafurans	30.08	1.367e3	4.824e2	0.903	2.83	21.3	YES	YES	db	dd	0.130	
41	Total-hexafurans	33.31	1.435e4	1.135e4	0.972	1.24	264.8	YES	NO	bb	bb	3.689	
42	123468-HxCDF	33.09	4.247e3	3.322e3	1.051	1.24	77.8	YES	NO	bb	bb	0.703	
43	123789-HxCDF	36.83	3.942e2	1.717e2	0.938	1.24	5.9	YES	YES	bb	bb	0.139	
44	234678-HxCDF	35.96	9.816e2	6.331e2	0.991	1.55	20.4	YES	YES	MM	MM	0.258	
45	123678-HxCDF	34.98	1.032e3	7.612e2	0.917	1.36	14.9	YES	NO	db	MM	0.251	
46	123478-HxCDF	34.85	2.222e3	1.615e3	0.963	1.38	39.8	YES	NO	dd	dd	0.389	
47	Total-hexafurans	34.67	7.690e2	5.389e2	0.972	1.43	14.9	YES	YES	dd	dd	0.188	
48	Total-hexafurans	34.53	3.415e2	2.984e2	0.972	1.14	7.4	YES	NO	bd	bd	0.092	
49	Total-hexafurans	34.17	2.011e4	1.504e4	0.972	1.34	351.0	YES	NO	db	db	5.046	
50	Total-hexafurans	34.07	3.869e2	3.884e2	0.972	1.00	10.1	YES	YES	bd	bd	0.111	
51	Total-hexafurans	33.84	6.778e2	4.465e2	0.972	1.52	12.8	YES	YES	bb	bb	0.161	
52	1234789-HpCDF	40.78	1.222e3	1.140e3	1.162	1.07	18.5	YES	NO	bb	bb	0.304	
53	Total-heptafurans	39.22	5.141e4	4.882e4	1.141	1.05	779.0	YES	NO	bb	bb	11.789	
54	Total-heptafurans	39.00	4.332e2	7.345e2	1.141	0.59	8.1	YES	YES	bd	bb	0.137	
55	1234678-HpCDF	38.57	2.932e4	2.855e4	1.119	1.03	461.5	YES	NO	bb	bd	6.297	
56	OCDF	44.97	4.264e4	4.226e4	1.145	1.01	0.89	707.6	YES	NO	bd	bb	16.778
57	Total-penta1	27.07	1.486e4	9.429e3		1.58	1.55	550.4	YES	NO	bb	bb	1.668
58	Total-tetradiioxins	25.45	4.343e3	5.466e3	0.982	0.79	0.77	76.3	YES	NO	bb	dd	0.893
59	Total-tetradiioxins	25.24	1.095e3	1.317e3	0.982	0.83	0.77	22.6	YES	NO	db	dd	0.220
60	Total-tetradiioxins	25.15	3.276e2	2.850e2	0.982	1.15	0.77	5.0	YES	YES	bd	bd	0.056
61	Total-tetradiioxins	24.86	4.954e3	5.874e3	0.982	0.84	0.77	87.9	YES	NO	bb	bb	0.986
62	Total-tetradiioxins	24.59	3.219e3	4.163e3	0.982	0.77	0.77	58.0	YES	NO	bb	bb	0.672
63	Total-tetradiioxins	24.36	3.511e2	3.711e2	0.982	0.95	0.77	6.5	YES	YES	bb	bb	0.066
64	Total-tetradiioxins	23.87	1.003e3	9.306e2	0.982	1.08	0.77	20.9	YES	YES	db	db	0.176
65	Total-tetradiioxins	23.78	8.282e2	9.341e2	0.982	0.89	0.77	14.8	YES	YES	dd	dd	0.160
66	Total-tetradiioxins	23.65	1.486e4	1.898e4	0.982	0.78	0.77	281.7	YES	NO	bd	bd	3.081
67	1368-TCDD	23.38	2.201e4	2.788e4	1.026	0.79	0.77	452.9	YES	NO	bb	bb	4.346
68	1289-TCDD	26.89	3.606e2	2.256e2	0.938	1.60	0.77	6.5	YES	YES	db	db	0.056
69	Total-tetradiioxins	26.39	8.731e2	1.055e3	0.982	0.83	0.77	14.4	YES	NO	db	db	0.176
70	2378-TCDD	26.27	6.188e2	1.546e3	0.982	0.40	0.77	10.6	YES	YES	bd	bd	0.197
71	Total-tetradiioxins	25.89	4.722e3	5.950e3	0.982	0.79	0.77	68.2	YES	NO	bb	bb	0.972
72	Total-tetradiioxins	25.59	3.178e2	4.715e2	0.982	0.67	0.77	8.0	YES	NO	bb	dd	0.072
73	Total-pentadiioxins	29.20	1.114e3	7.801e2	1.387	1.43	1.55	18.9	YES	NO	bb	bb	0.163
74	Total-pentadiioxins	28.77	1.161e4	6.802e3	1.387	1.71	1.55	105.9	YES	NO	bb	MM	1.585

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg								
12389-PEOCDD	31.77	8.762e2	4.903e2	1.326	1.79	1.55	10.2	YES	YES	bb	bb	0.123								
12378-PeCDD	31.37	2.391e3	1.466e3	1.029	1.63	1.55	28.4	YES	NO	bb	bb	0.448								
Total-pentadioxins	30.82	2.061e3	1.153e3	1.387	1.79	1.55	31.0	YES	YES	db	db	0.277								
Total-pentadioxins	30.72	5.559e3	3.445e3	1.387	1.61	1.55	74.7	YES	NO	bd	bd	0.775								
Total-pentadioxins	30.32	2.437e3	1.362e3	1.387	1.79	1.55	22.9	YES	YES	MM	db	0.327								
Total-pentadioxins	30.14	7.482e3	5.192e3	1.387	1.44	1.55	106.8	YES	NO	dd	dd	1.091								
Total-pentadioxins	29.98	2.052e3	1.219e3	1.387	1.68	1.55	30.0	YES	NO	bd	bd	0.282								
Total-pentadioxins	29.78	1.017e4	6.355e3	1.387	1.60	1.55	153.5	YES	NO	bb	bd	1.423								
124679-HxCDD	34.06	8.007e3	6.686e3	1.031	1.20	1.24	73.4	YES	NO	db	dd	1.630								
Total-hexadioxins	33.89	5.577e4	4.476e4	0.944	1.25	1.24	515.7	YES	NO	bd	bd	11.888								
123789-HxCDD	36.53	2.549e3	2.113e3	0.918	1.21	1.24	23.1	YES	NO	dd	bb	0.567								
Total-hexadioxins	36.33	3.033e3	2.312e3	0.944	1.31	1.24	31.8	YES	NO	dd	db	0.632								
123678-HxCDD	36.17	7.694e3	5.953e3	0.904	1.29	1.24	79.2	YES	NO	dd	dd	1.643								
123478-HxCDD	36.06	1.389e3	1.221e3	0.921	1.14	1.24	14.0	YES	NO	dd	bd	0.324								
Total-hexadioxins	35.24	1.203e4	1.019e4	0.944	1.18	1.24	104.8	YES	NO	db	db	2.628								
Total-hexadioxins	35.11	3.480e4	2.928e4	0.944	1.19	1.24	202.9	YES	NO	bd	bd	7.578								
Total-hexadioxins	34.71	2.098e4	1.667e4	0.944	1.26	1.24	176.2	YES	NO	bd	bb	4.451								
Total-hexadioxins	34.53	9.042e3	7.525e3	0.944	1.20	1.24	88.1	YES	NO	bb	bb	1.959								
1234678-HpCDD	40.04	2.048e5	1.933e5	1.046	1.06	1.05	1140.1	YES	NO	bb	bb	63.908								
1234679-HPCDD	39.02	9.797e5	9.222e5	1.228	1.06	1.05	6005.6	YES	NO	bb	bb	260.206								
OCDD	44.73	1.336e6	1.525e6	0.984	0.88	0.89	14289.3	YES	NO	bb	bb	658.147								

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

PFK1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 PFK	22.08	1.348e7					49.2	YES		bd		
FUNCTION1 PFK	21.42	1.563e7					43.1	YES		db		
FUNCTION1 PFK	21.25	3.570e6					38.2	YES		dd		
FUNCTION1 PFK	21.10	1.354e6					30.6	YES		dd		
FUNCTION1 PFK	20.93	6.247e6					34.3	YES		dd		
FUNCTION1 PFK	20.65	3.679e6					28.8	YES		dd		
FUNCTION1 PFK	20.42	3.492e6					25.8	YES		dd		
FUNCTION1 PFK	20.27	9.278e5					20.7	YES		dd		
FUNCTION1 PFK	20.12	1.102e6					17.5	YES		bd		
FUNCTION1 PFK	27.69	1.583e6					15.6	YES		db		
FUNCTION1 PFK	27.57	9.205e5					19.3	YES		bd		
FUNCTION1 PFK	27.43	1.060e6					21.8	YES		db		
FUNCTION1 PFK	27.28	1.517e6					21.7	YES		dd		
FUNCTION1 PFK	27.10	2.051e6					21.1	YES		bd		
FUNCTION1 PFK	26.48	3.952e6					5.9	YES		bb		
FUNCTION1 PFK	25.84	2.377e5					5.1	YES		bb		
FUNCTION1 PFK	24.06	4.882e5					9.6	YES		db		
FUNCTION1 PFK	23.91	7.447e6					13.9	YES		dd		
FUNCTION1 PFK	23.22	4.576e6					26.7	YES		dd		
FUNCTION1 PFK	22.87	4.537e6					33.5	YES		dd		
FUNCTION1 PFK	22.67	4.415e6					36.0	YES		dd		
FUNCTION1 PFK	22.51	3.043e6					40.6	YES		dd		

PFK2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION2 PFK	28.32	1.006e6					8.7	YES		bb		0.000
FUNCTION2 PFK	27.98	2.994e3					0.6	NO		bb		0.000
FUNCTION2 PFK	32.11	4.328e6					23.4	YES		db		0.000
FUNCTION2 PFK	32.01	2.838e5					13.1	YES		bd		0.000
FUNCTION2 PFK	31.68	6.441e6					7.6	YES		bb		0.000
FUNCTION2 PFK	30.58	4.848e6					13.9	YES		bb		0.000
FUNCTION2 PFK	29.98	3.580e5					7.6	YES		db		0.000
FUNCTION2 PFK	29.81	5.266e6					20.3	YES		dd		0.000
FUNCTION2 PFK	29.40	1.177e6					38.6	YES		bd		0.000
FUNCTION2 PFK	29.28	7.266e4					3.3	YES		bb		0.000
FUNCTION2 PFK	29.08	1.579e6					22.9	YES		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.44	3.412e6				46.8	YES		dd		0.000
2	FUNCTION3 PFK	35.27	1.539e6				43.9	YES		dd		0.000
3	FUNCTION3 PFK	35.20	5.038e6				45.1	YES		bd		0.000
4	FUNCTION3 PFK	34.90	1.494e6				38.9	YES		db		0.000
5	FUNCTION3 PFK	34.53	5.990e6				19.8	YES		bd		0.000
6	FUNCTION3 PFK	33.89	9.174e5				8.0	YES		bb		0.000
7	FUNCTION3 PFK	37.62	4.743e6				14.5	YES		bb		0.000
8	FUNCTION3 PFK	37.16	3.197e6				42.1	YES		db		0.000
9	FUNCTION3 PFK	36.97	1.978e6				42.2	YES		dd		0.000
10	FUNCTION3 PFK	36.88	1.426e6				43.0	YES		bd		0.000
11	FUNCTION3 PFK	36.70	3.873e6				51.1	YES		db		0.000
12	FUNCTION3 PFK	36.57	1.597e6				49.1	YES		dd		0.000
13	FUNCTION3 PFK	36.39	1.577e7				52.1	YES		bd		0.000
14	FUNCTION3 PFK	35.67	9.485e6				51.3	YES		db		0.000

PFK4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.29	2.050e6				43.6	YES		dd		
2	FUNCTION4 PFK	39.08	1.190e6				38.2	YES		dd		
3	FUNCTION4 PFK	39.04	1.260e6				37.3	YES		bd		
4	FUNCTION4 PFK	38.69	1.599e6				23.2	YES		db		
5	FUNCTION4 PFK	38.51	3.114e5				13.0	YES		bd		
6	FUNCTION4 PFK	38.06	2.818e6				24.5	YES		db		
7	FUNCTION4 PFK	37.77	7.615e5				40.1	YES		bd		
8	FUNCTION4 PFK	41.60	1.192e5				5.3	YES		bb		
9	FUNCTION4 PFK	41.02	2.133e5				10.4	YES		db		
10	FUNCTION4 PFK	40.95	3.364e5				11.4	YES		dd		
11	FUNCTION4 PFK	40.77	1.501e5				6.3	YES		bd		
12	FUNCTION4 PFK	40.36	2.943e5				10.1	YES		db		
13	FUNCTION4 PFK	40.22	3.603e5				19.8	YES		dd		
14	FUNCTION4 PFK	40.12	4.868e6				26.1	YES		bd		
15	FUNCTION4 PFK	39.53	2.464e6				50.9	YES		db		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION5 PFK	44.54	2.112e4					2.8	NO		bb		
FUNCTION5 PFK	44.23	1.048e6					18.3	YES		bb		
FUNCTION5 PFK	43.68	1.411e6					11.2	YES		bb		

ETHERS1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 HXCD...	25.69	1.447e4					697.0	YES		bb		0.000
FUNCTION1 HXCD...	25.39	1.184e3					53.8	YES		bb		0.000
FUNCTION1 HXCD...	24.83	1.351e2					7.8	YES		bb		0.000
FUNCTION1 HXCD...	27.16	8.492e1					4.8	YES		bb		0.000

ETHERS2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 HPCD...	27.25	8.857e1					4.3	YES		bb		0.000
FUNCTION1 HPCD...	21.93	1.437e3					47.8	YES		bb		0.000
FUNCTION1 HPCD...	20.75	1.411e3					60.1	YES		bb		0.000
FUNCTION1 HPCD...	20.42	2.659e2					10.7	YES		bb		0.000

ETHERS3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION2 HPCD...	29.78	1.385e2					9.3	YES		db		0.000
FUNCTION2 HPCD...	29.75	1.526e2					7.7	YES		bd		0.000
FUNCTION2 HPCD...	29.41	3.497e2					9.8	YES		bb		0.000
FUNCTION2 HPCD...	29.19	7.349e1					2.6	NO		bb		0.000

ETHERS4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION3 OCDPE	36.24	1.104e2					6.7	YES		bb		0.000

ETHERS5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION4 NCDPE	38.23	8.399e3					292.2	YES		bb		0.000

Quantify Totals Report MassLynx V4.1 SCN909

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ETHERS6

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

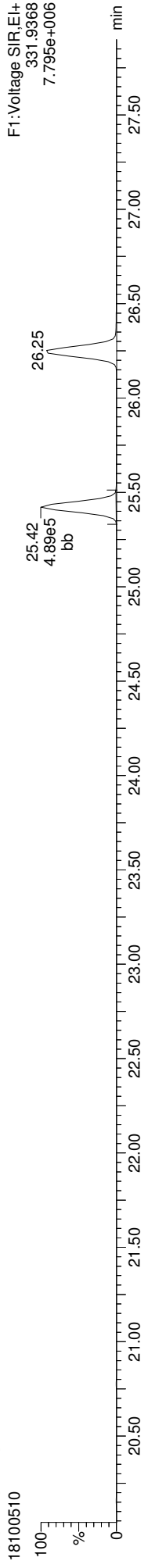
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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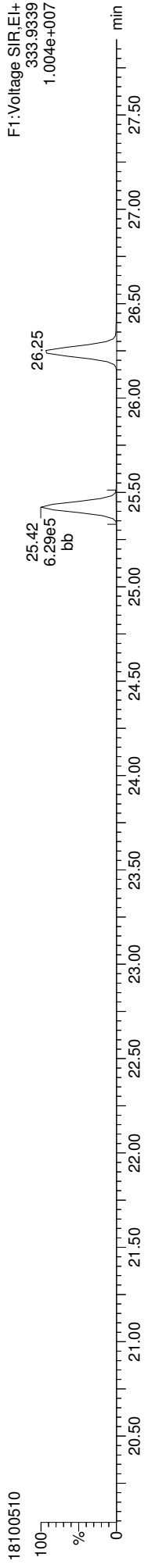
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ID: 1810285-02, **Name:** 18100510, **Date:** 05-Oct-2018, **Time:** 16:54:54, **Conditions:** AUTOSPEC01, **User:** PK

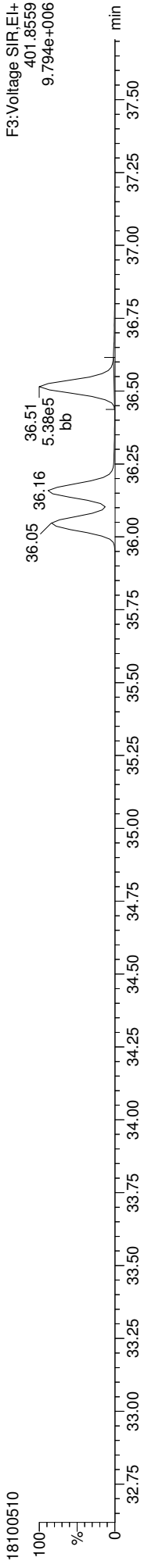
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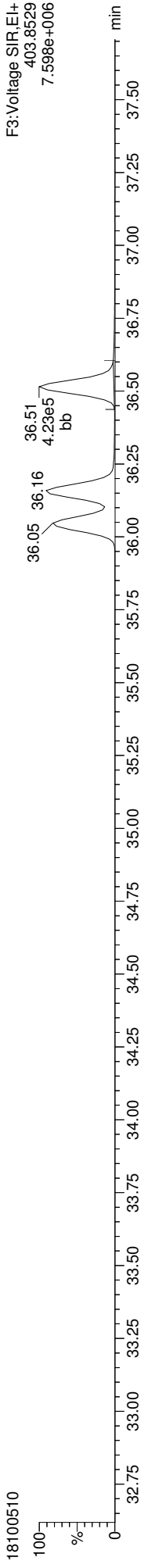
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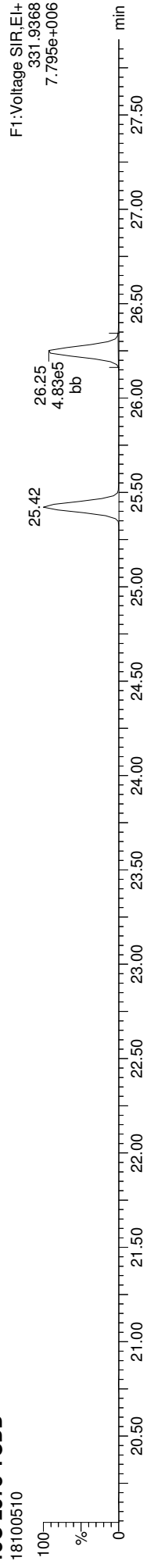
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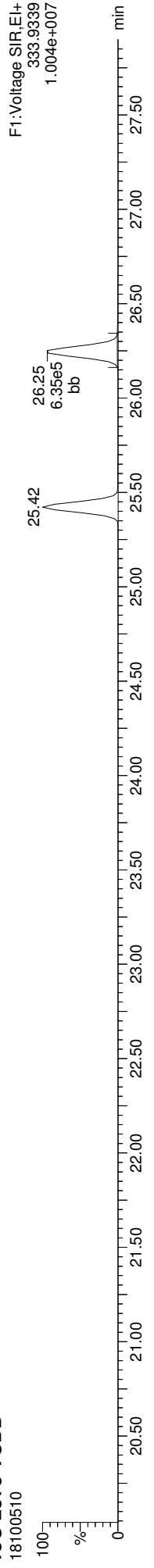
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

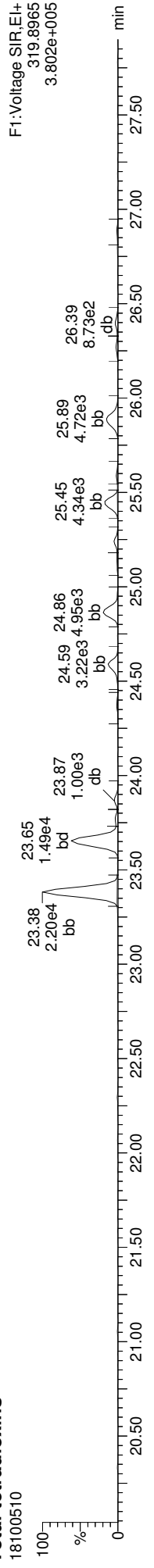
13C-2378-TCDD



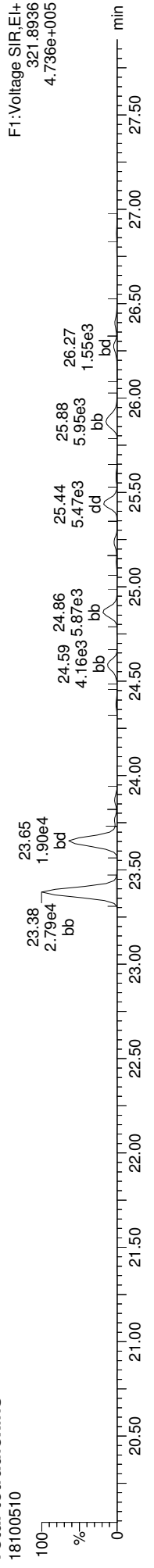
13C-2378-TCDD



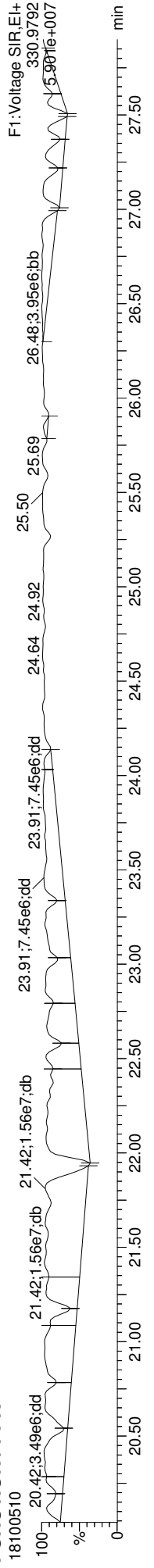
Total-tetradioxins



Total-tetradioxins



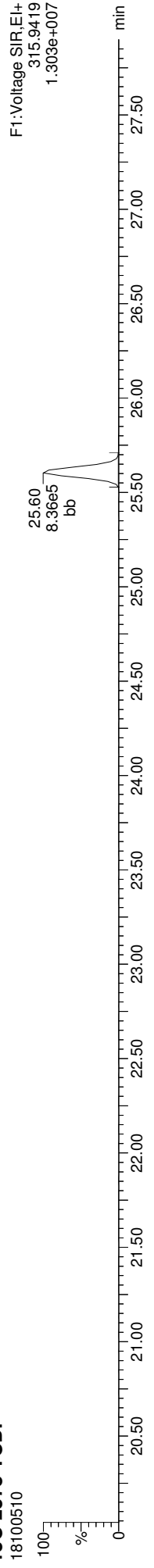
FUNCTION1 PFK



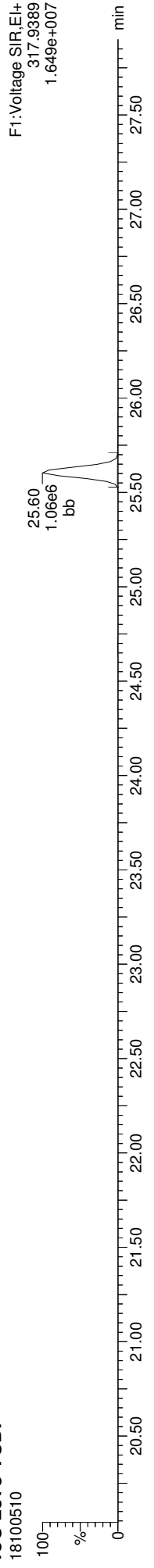
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

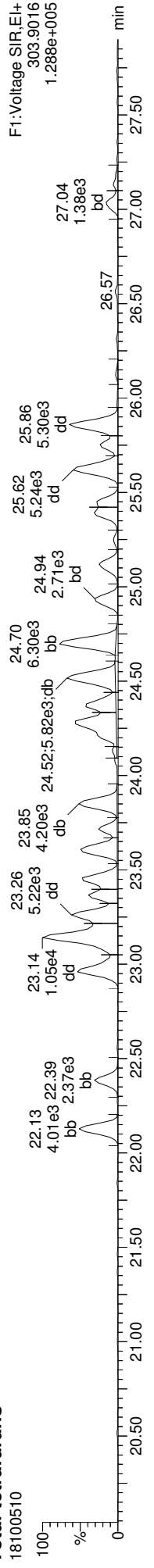
13C-2378-TCDF



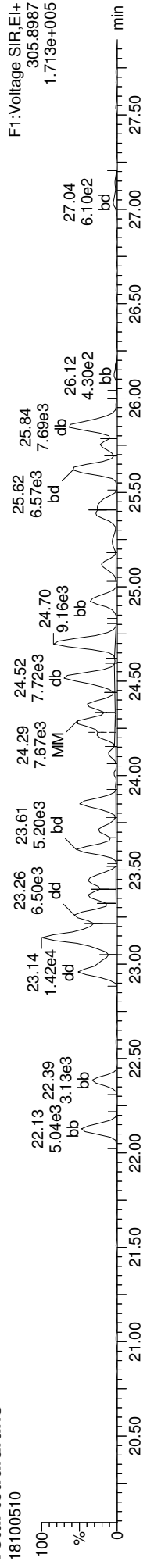
13C-2378-TCDF



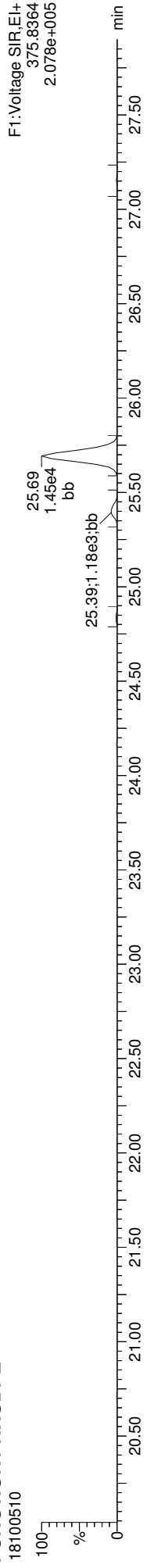
Total-tetrafurans



Total-tetrafurans



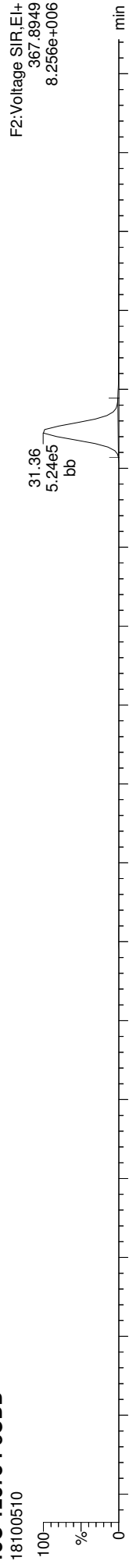
FUNCTION1 HXCDFE



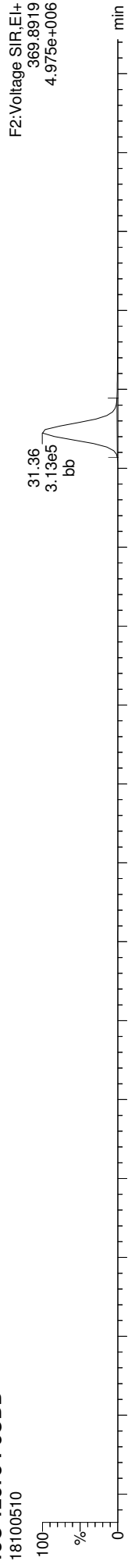
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

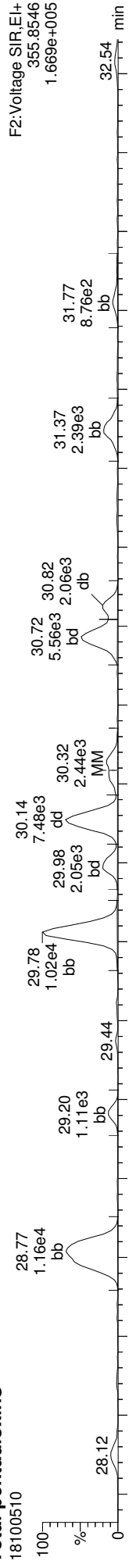
13C-12378-PeCDD



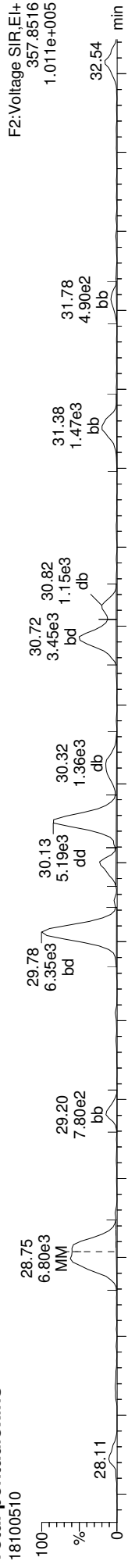
13C-12378-PeCDD



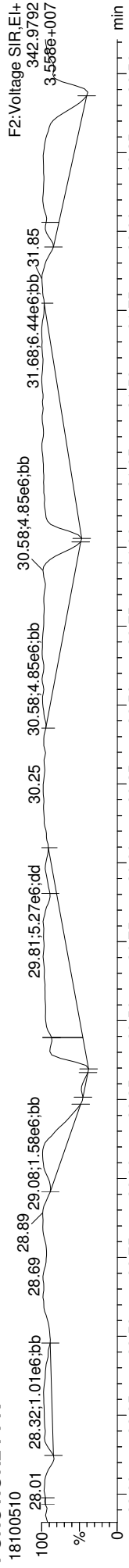
Total-pentadioxins



Total-pentadioxins



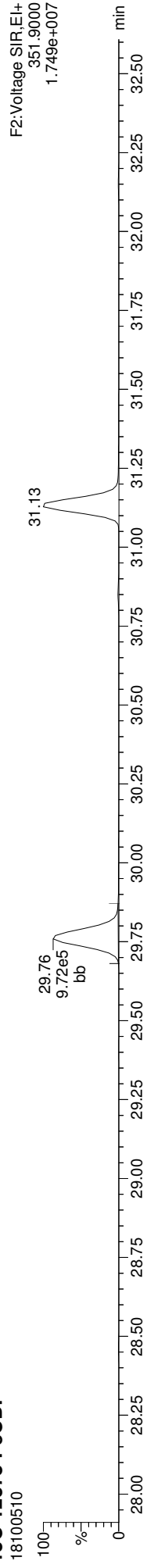
FUNCTION2 PFK



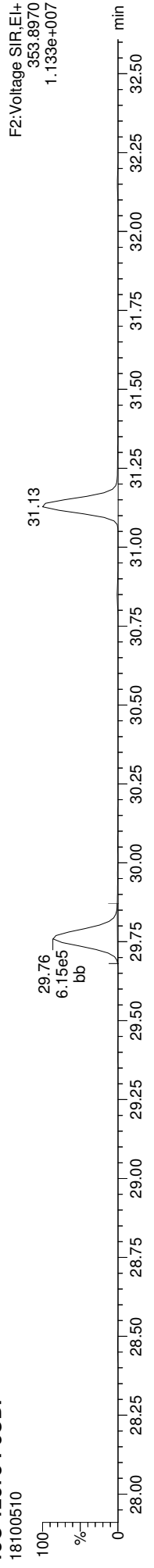
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

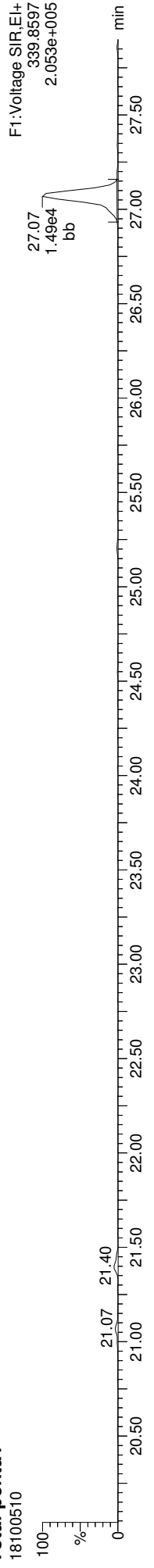
13C-12378-PeCDF



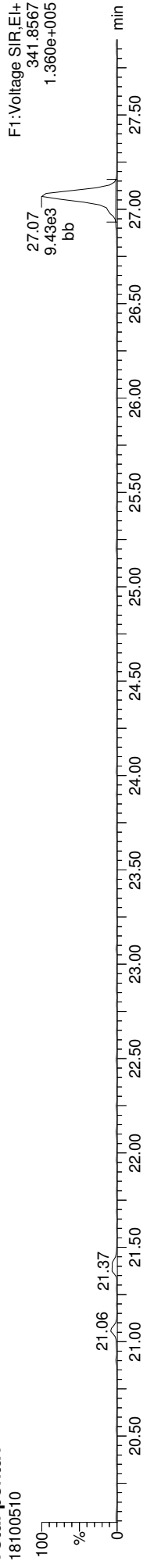
13C-12378-PeCDF



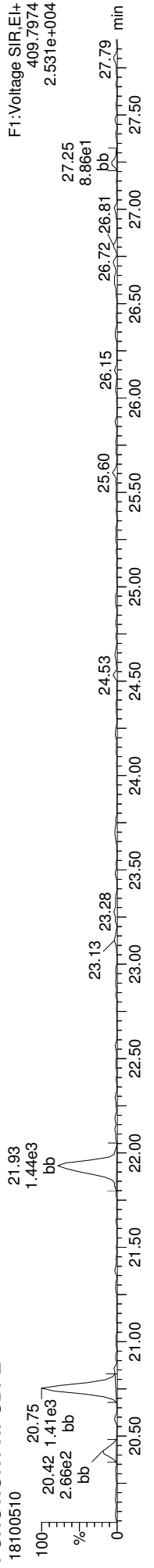
Total-penta1



Total-penta1



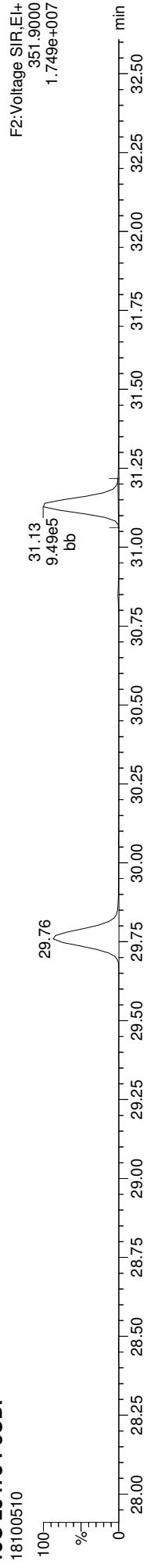
FUNCTION1 HPCDPE



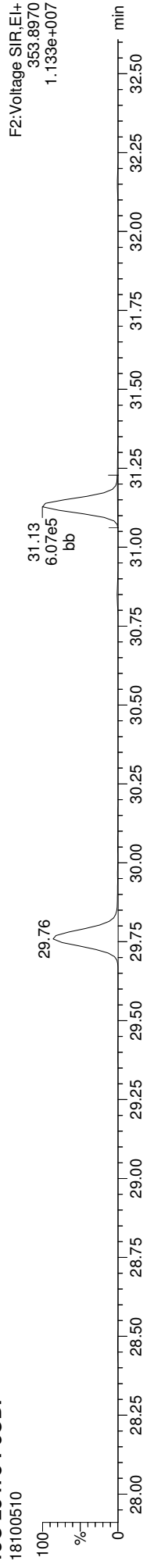
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

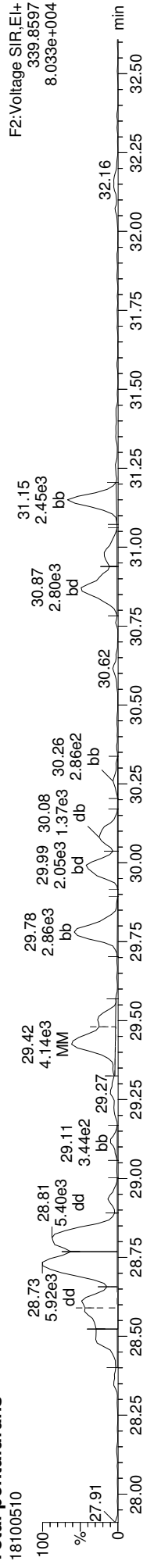
13C-23478-PeCDF



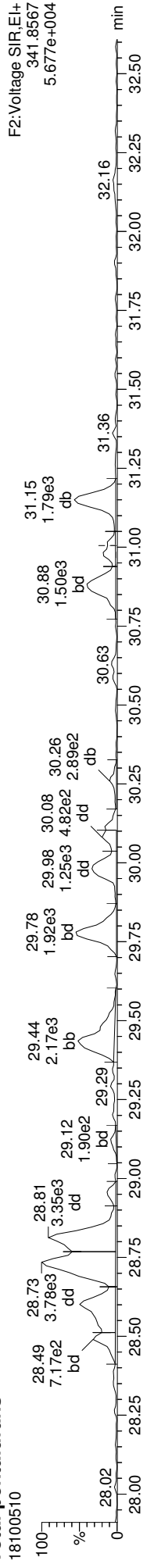
13C-23478-PeCDF



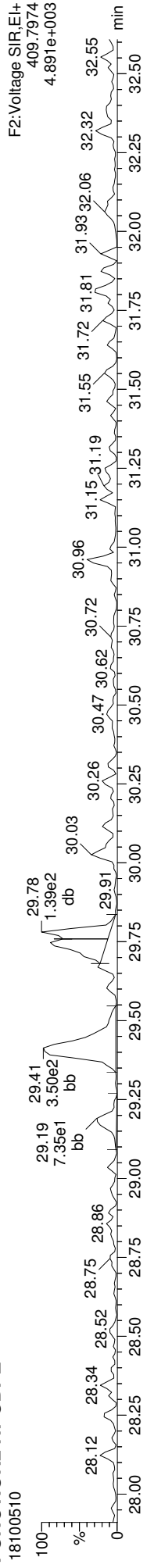
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

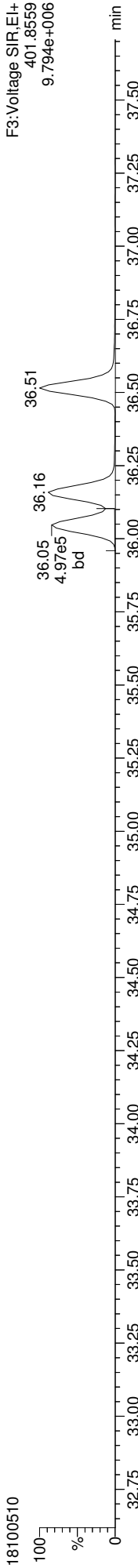


Quantify Sample Report

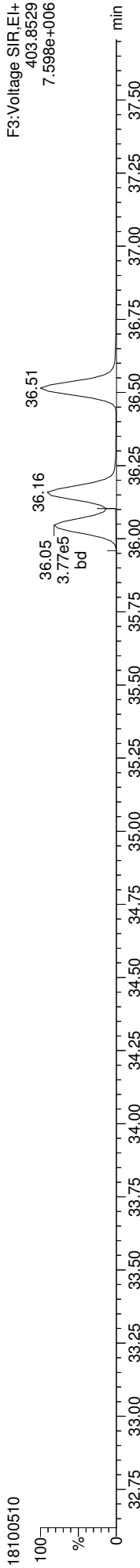
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

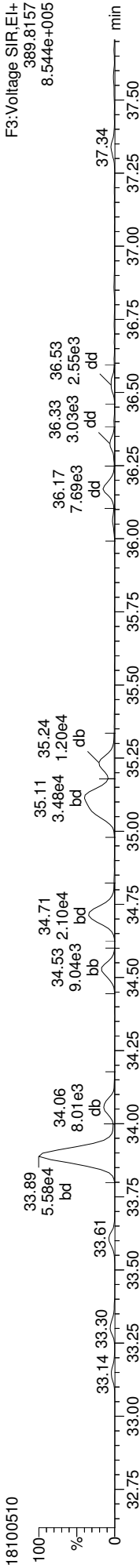
13C-123478-HxCDD



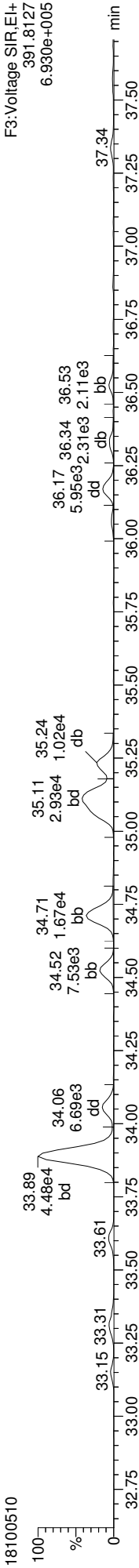
13C-123478-HxCDD



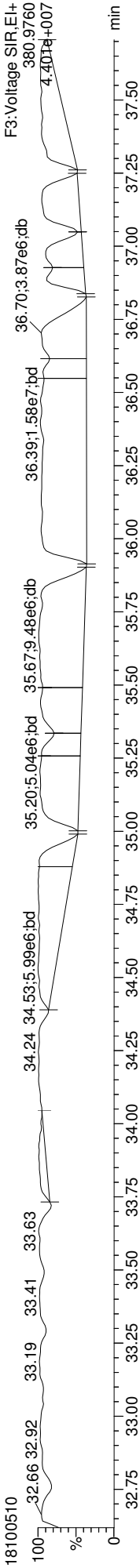
Total-hexadioxins



Total-hexadioxins



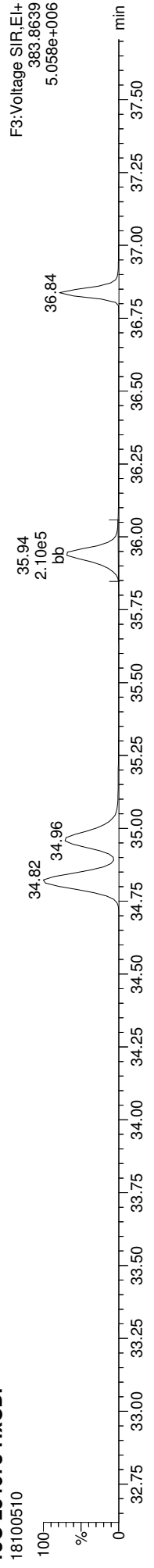
FUNCTION3 PFK



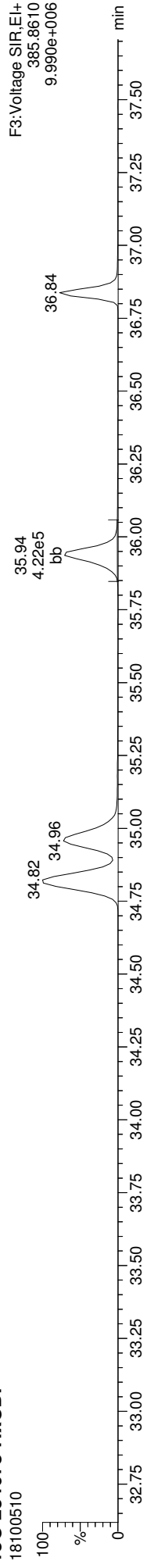
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

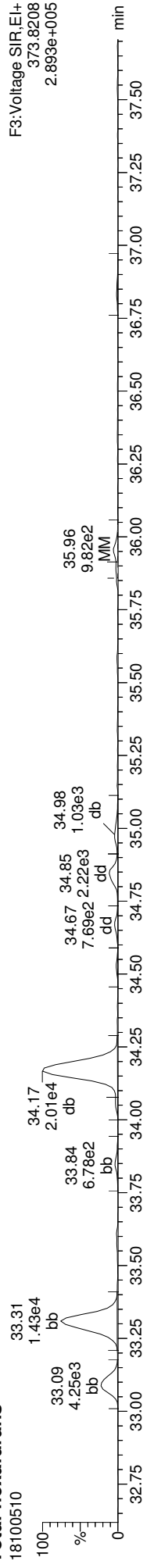
13C-234678-HxCDF



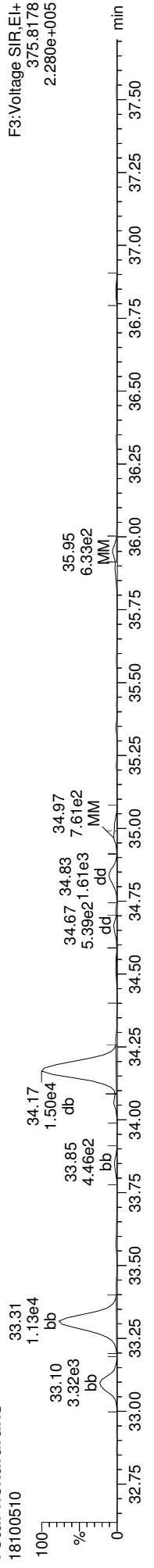
13C-234678-HxCDF



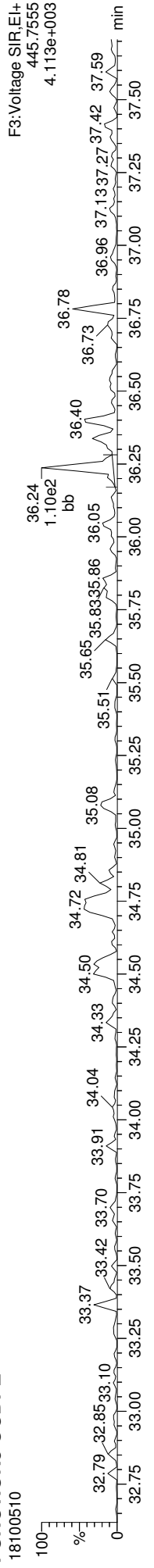
Total-hexafurans



Total-hexafurans



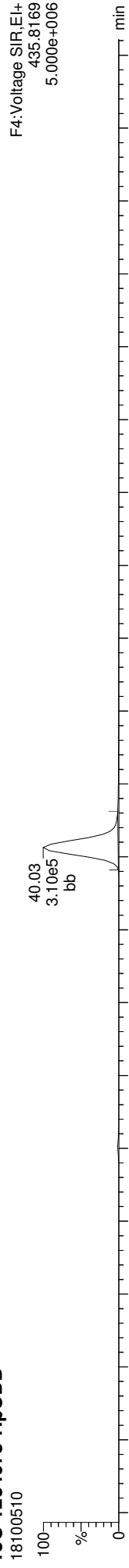
FUNCTION3 OCDPE



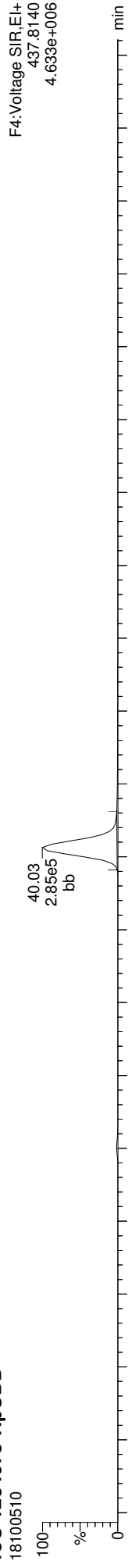
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

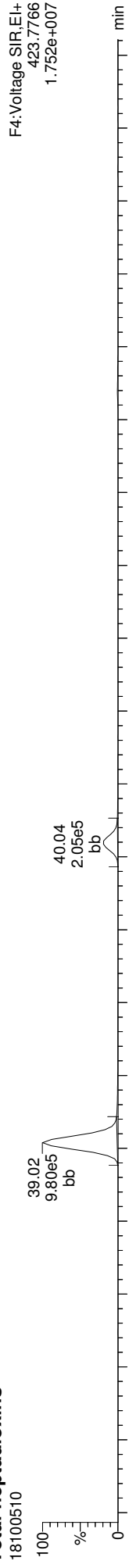
13C-1234678-HpCDD



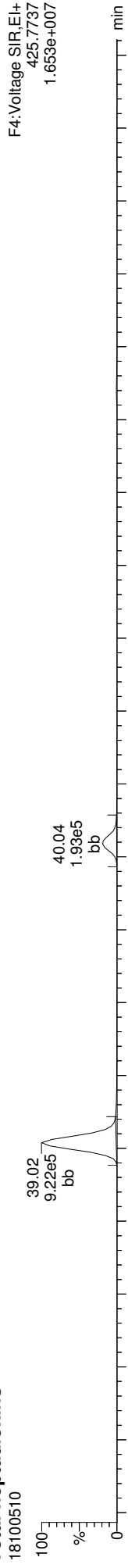
13C-1234678-HpCDD



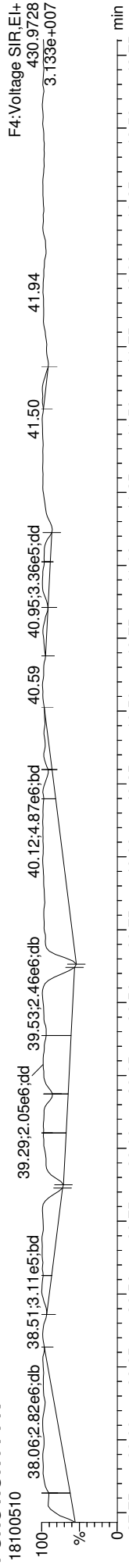
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

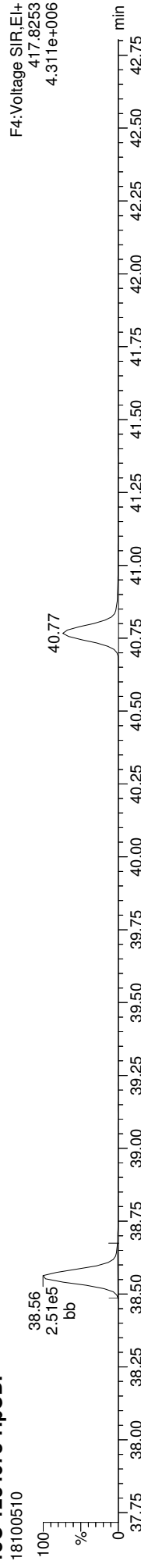


Quantify Sample Report

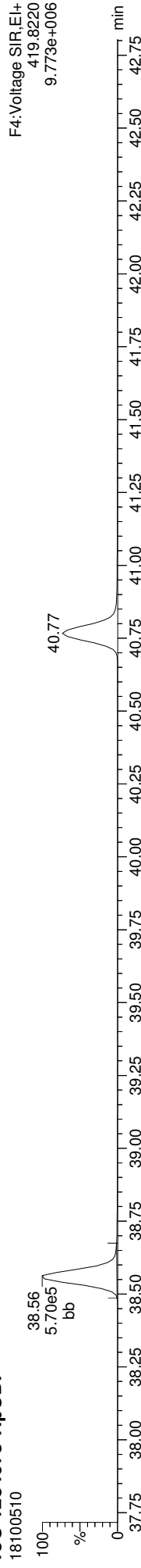
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

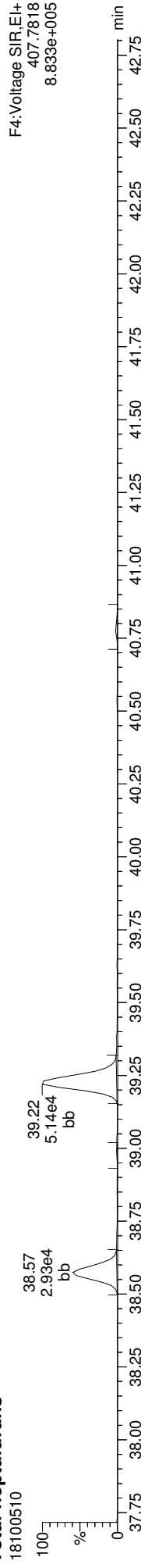
13C-1234678-HpCDF



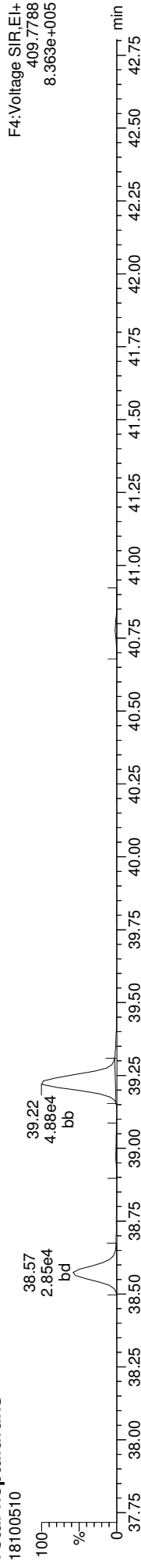
13C-1234678-HpCDF



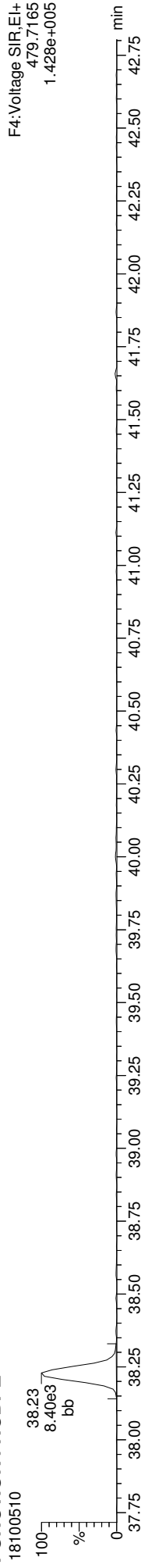
Total-heptafurans



Total-heptafurans



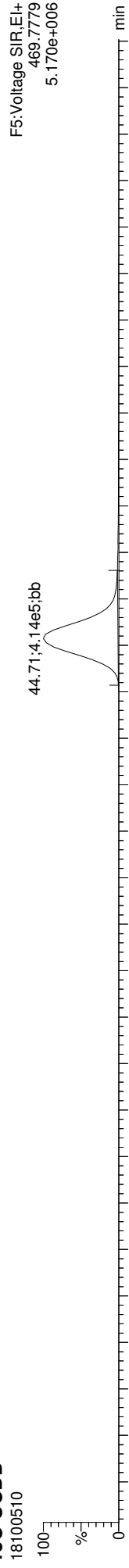
FUNCTION4 NCDPE



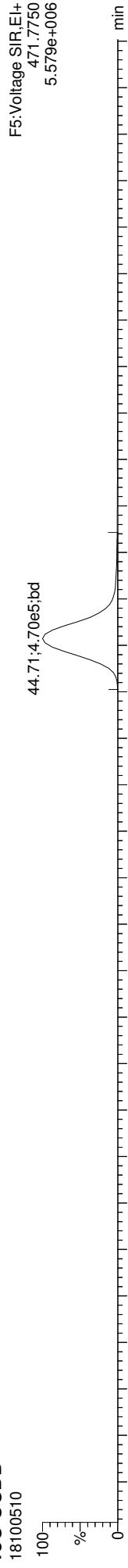
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

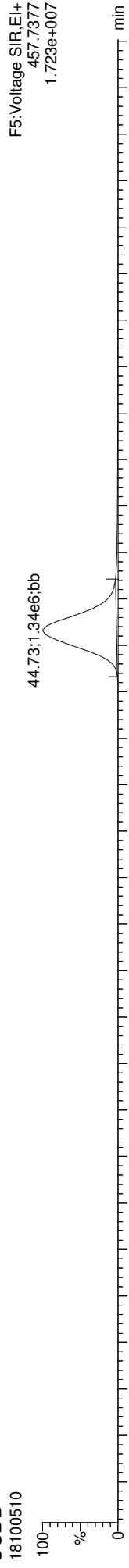
13C-OCDD



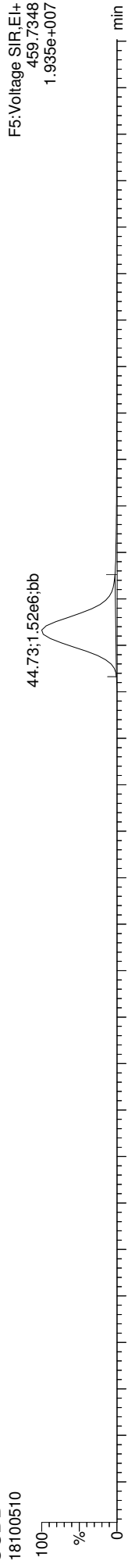
13C-OCDD



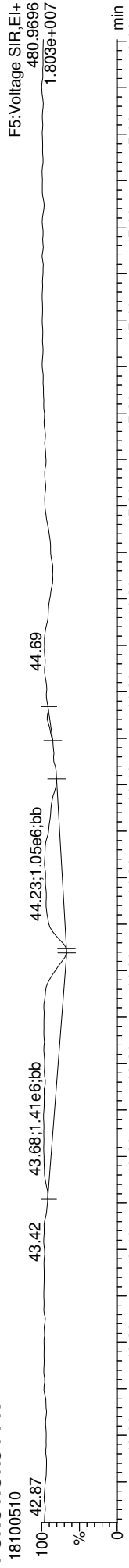
OCDD



OCDD



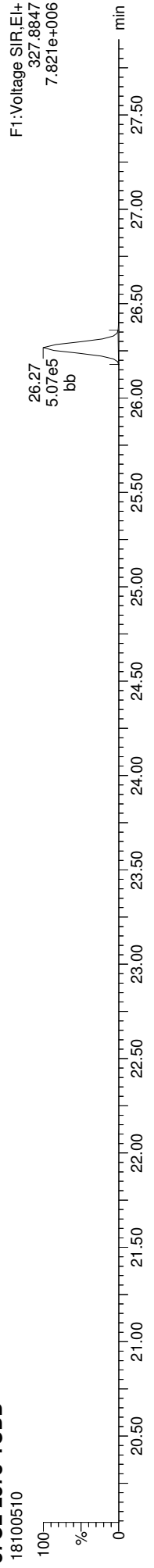
FUNCTION5 PFK



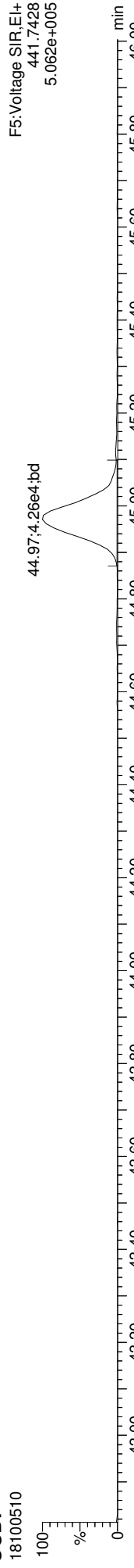
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:03 Pacific Daylight Time

ID: 1810285-02, Name: 18100510, Date: 05-Oct-2018, Time: 16:54:54, Conditions: AUTOSPEC01, User: PK

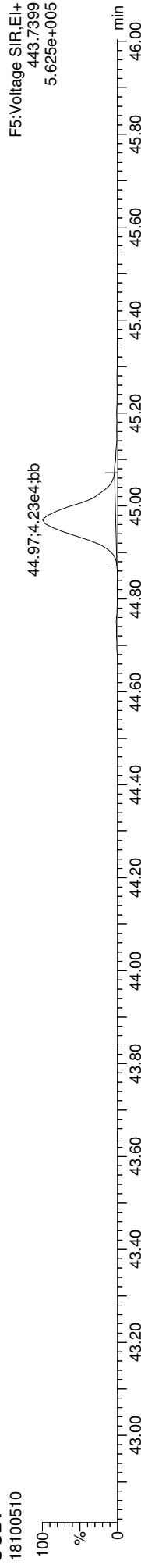
37CL-2378-TCDD



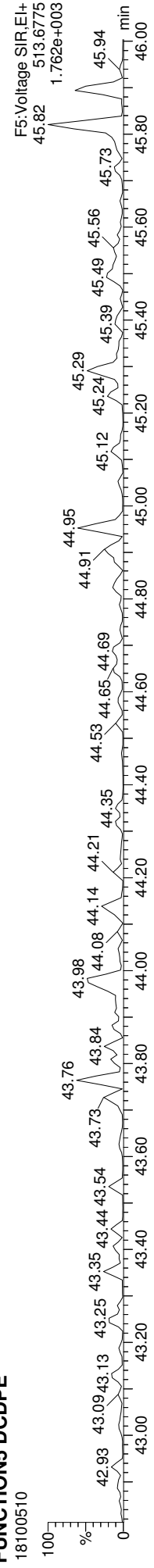
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 18I0285
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-03 File ID: 18100511
 Sampled: 09/19/18 10:25 Prepared: 10/02/18 16:00 Analyzed: 10/05/18 17:43
 % Solids: 83.61 Preparation: EPA 1613 Initial/Final: 12.04 g Wet / 20 uL
 Result Basis: Dry Sequence: SGJ0093 Calibration: BH00060
 Batch: BGI0793 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.844	0.655-0.886		0.993	0.375	ng/kg	J
1746-01-6	2,3,7,8-TCDD	1	0.335	0.655-0.886		0.993	0.176	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.695	1.318-1.783		0.993	0.534	ng/kg	J, B
57117-31-4	2,3,4,7,8-PeCDF	1	2.259	1.318-1.783		0.993	0.359	ng/kg	EMPC, J
40321-76-4	1,2,3,7,8-PeCDD	1	1.634	1.318-1.783		0.993	0.483	ng/kg	J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.103	1.054-1.426		0.993	0.469	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.490	1.054-1.426		0.993	0.295	ng/kg	EMPC, J
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.947	1.054-1.426		0.993	0.314	ng/kg	EMPC, J
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.342	1.054-1.426		0.993	0.126	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.215	1.054-1.426		0.993	0.270	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.359	1.054-1.426		0.993	1.31	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.375	1.054-1.426		0.993	0.674	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.081	0.893-1.208		0.993	2.47	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.041	0.993	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.057	0.893-1.208		2.48	9.78	ng/kg	
39001-02-0	OCDF	1	1.105	0.757-1.024		1.99	2.51	ng/kg	EMPC
3268-87-9	OCDD	1	0.892	0.757-1.024		9.93	50.0	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.993	5.12	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.993	9.87	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.993	5.12	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.993	8.11	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.993	4.70	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.993	25.8	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.993	5.01	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.993	27.3	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 1.30
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.30



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>18I0285-03</u>
Sampled:	<u>09/19/18 10:25</u>	Prepared:	<u>10/02/18 16:00</u>
Solids Wt%:	<u>83.61</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SGJ0093</u>
Batch:	<u>BGI0793</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>18I00511</u>
		Analyzed:	<u>10/05/18 17:43</u>
		Initial/Final:	<u>12.04 g / 20 uL</u>
		Calibration:	<u>BH00060</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.787	0.655-0.886		84.9	24 - 169 %	
13C12-2,3,7,8-TCDD		0.764	0.655-0.886		76.2	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.569	1.318-1.783		84.7	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.577	1.318-1.783		82.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.666	1.318-1.783		76.2	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.497	0.434-0.587		77.5	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.501	0.434-0.587		78.5	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.499	0.434-0.587		76.7	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.500	0.434-0.587		75.5	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.279	1.054-1.426		77.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.273	1.054-1.426		78.5	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.439	0.374-0.506		75.9	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.427	0.374-0.506		78.7	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.087	0.893-1.208		75.9	23 - 140 %	
13C12-OCDD		0.895	0.757-1.024		60.7	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			87.8	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820CIH.cdb 21 Aug 2018 11:13:54

ID: 1810285-03, **Name:** 18100511, **Date:** 05-Oct-2018, **Time:** 17:43:24, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.603	1.001	1.337e3	1.584e3	0.834	0.844	0.770	888	1739	2.12e4	2.44e4	23.9	YES	NO	bb	bd	0.189
12378-PeCDF	29.762	1.001	2.254e3	1.330e3	0.852	1.695	1.550	1329	832	3.87e4	1.80e4	29.1	YES	NO	bb	bb	0.269
23478-PeCDF	31.120	1.001	1.776e3	7.861e2	0.944	2.259	1.550	1329	832	2.92e4	1.31e4	22.0	YES	YES	dd	db	0.181
123478-HxCDF	34.793	1.001	1.237e3	1.121e3	0.963	1.103	1.240	616	499	2.00e4	1.93e4	32.5	YES	NO	bd	bd	0.236
234678-HxCDF	35.862	1.000	7.489e2	7.904e2	0.991	0.947	1.240	616	499	1.10e4	1.02e4	17.9	YES	YES	bb	bb	0.158
123678-HxCDF	34.949	1.001	9.103e2	6.110e2	0.917	1.490	1.240	616	499	1.42e4	1.01e4	23.0	YES	YES	db	db	0.149
123789-HxCDF	36.797	1.000	3.122e2	2.325e2	0.938	1.342	1.240	616	499	4.76e3	3.87e3	7.7	YES	NO	MM	MM	0.063
1234678-HpCDF	38.555	1.001	6.394e3	5.917e3	1.119	1.081	1.050	461	435	1.09e5	1.03e5	235.6	YES	NO	bb	bb	1.243
1234789-HpCDF					1.162		1.050	461	435								
OCDF	44.946	1.006	3.871e3	3.504e3	1.145	1.105	0.890	425	677	4.68e4	4.66e4	110.0	YES	YES	bb	bb	1.262
2378-TCDD	26.238	1.001	2.318e2	6.916e2	0.982	0.335	0.770	913	483	4.21e3	1.21e4	4.6	YES	YES	bd	bd	0.089
12378-PeCDD	31.343	1.000	1.242e3	7.599e2	1.029	1.634	1.550	1231	718	1.78e4	1.35e4	14.5	YES	NO	bb	bb	0.243
123478-HxCDD	35.973	1.000	6.348e2	5.225e2	0.921	1.215	1.240	1126	754	9.50e3	1.08e4	8.4	YES	NO	bd	bd	0.136
123678-HxCDD	36.084	1.000	3.312e3	2.437e3	0.904	1.359	1.240	1126	754	6.14e4	4.49e4	54.5	YES	NO	db	db	0.661
123789-HxCDD	36.452	1.010	1.698e3	1.235e3	0.918	1.375	1.240	1126	754	2.86e4	2.02e4	25.4	YES	NO	bb	bb	0.339
1234678-HpCDD	40.036	1.001	1.747e4	1.653e4	1.046	1.057	1.050	1169	767	2.77e5	2.68e5	237.1	YES	NO	bb	bb	4.923
OCDD	44.709	1.000	5.958e4	6.678e4	0.984	0.892	0.890	636	768	7.23e5	8.55e5	1135.9	YES	NO	bb	bb	25.166
13C-2378-TCDF	25.588	1.007	8.186e5	1.040e6	1.847	0.787	0.770	3979	1928	1.31e7	1.67e7	3292.9	YES	NO	bb	bb	84.857
13C-12378-PeCDF	29.740	1.171	9.559e5	6.092e5	1.558	1.569	1.550	1808	2180	1.53e7	9.86e6	8478.7	YES	NO	bb	bb	84.715
13C-23478-PeCDF	31.087	1.224	9.186e5	5.825e5	1.544	1.577	1.550	1808	2180	1.48e7	9.46e6	8186.6	YES	NO	bb	bb	81.990
13C-123478-HxCDF	34.771	0.954	3.439e5	6.919e5	1.152	0.497	0.510	1419	2399	5.35e6	1.08e7	3768.0	YES	NO	bd	bd	77.484
13C-123678-HxCDF	34.927	0.959	3.725e5	7.428e5	1.225	0.501	0.510	1419	2399	5.69e6	1.13e7	4006.3	YES	NO	db	db	78.476
13C-234678-HxCDF	35.851	0.984	3.268e5	6.554e5	1.104	0.499	0.510	1419	2399	5.46e6	1.06e7	3843.9	YES	NO	bb	bb	76.717
13C-123789-HxCDF	36.808	1.010	3.054e5	6.105e5	1.046	0.500	0.510	1419	2399	5.61e6	1.10e7	3953.7	YES	NO	bb	bb	75.511
13C-1234678-HpCDF	38.533	1.057	2.699e5	6.148e5	1.004	0.439	0.440	1377	1596	4.61e6	1.05e7	3344.4	YES	NO	bb	bb	75.932
13C-1234789-HpCDF	40.748	1.118	2.182e5	5.114e5	0.799	0.427	0.440	1377	1596	3.35e6	7.77e6	2431.6	YES	NO	bb	bb	78.747
13C-1234-TCDD	25.407	0.000	5.196e5	6.664e5	1.000	0.780	0.770	1368	899	8.39e6	1.07e7	6128.9	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.222	1.032	4.587e5	6.000e5	1.171	0.764	0.770	1368	899	7.34e6	9.58e6	5367.1	YES	NO	bb	bb	76.219
13C-12378-PeCDD	31.343	1.234	5.000e5	3.001e5	0.886	1.666	1.550	609	526	8.09e6	4.78e6	13293.7	YES	NO	bb	bb	76.151
13C-123478-HxCDD	35.962	0.987	5.185e5	4.054e5	1.027	1.279	1.240	1631	1034	9.19e6	7.14e6	5632.3	YES	NO	bd	bd	77.563
13C-123678-HxCDD	36.073	0.990	5.383e5	4.230e5	1.055	1.273	1.240	1631	1034	9.16e6	7.27e6	5614.9	YES	NO	db	db	78.544
13C-1234678-HpCDD	40.014	1.098	3.436e5	3.163e5	0.749	1.087	1.050	1772	1249	5.51e6	5.06e6	3107.4	YES	NO	bb	bb	75.949
13C-OCDD	44.690	1.226	4.820e5	5.388e5	0.725	0.895	0.890	1617	1210	5.91e6	6.43e6	3656.7	YES	NO	bd	bd	121.414
13C-123789-HxCDD	36.441	0.000	6.468e5	5.132e5	1.000	1.260	1.240	1631	1034	1.19e7	9.36e6	7297.3	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.238	1.033	4.668e5		1.121			667		7.42e6		11117.1	YES		bb		35.125

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
1368-TCDF	22.098	0.864	1.414e3	1.294e3	1.020	1.092	0.770	888	1739	1.64e4	1.96e4	18.4	YES	YES	dd	bd	0.143	
1289-TCDF					0.818		0.770	888	1739									
13468-PECDF					1.163		1.550	323	495									
12389-PECDF					0.912		1.550	1329	832									
123468-HXCDF	33.057	0.951	1.478e3	1.128e3	1.051	1.311	1.240	616	499	2.28e4	1.61e4	37.0	YES	NO	bd	bd	0.239	
1368-TCDD	23.367	0.891	1.185e4	1.407e4	1.026	0.842	0.770	913	483	1.90e5	2.30e5	207.9	YES	NO	bb	bb	2.386	
1289-TCDD					0.938		0.770	913	483									
12479-PECDD	28.671	0.915	8.027e3	1.516e3	1.807	5.296	1.550	1231	718	7.84e4	4.13e4	63.7	YES	YES	MM	MM	0.660	
12389-PECDD	31.743	1.013	2.392e2	1.845e2	1.326	1.297	1.550	1231	718	4.98e3	4.58e3	4.0	YES	YES	bb	bb	0.040	
124679-HXCDD	33.858	0.942	4.407e3	3.989e3	1.031	1.105	1.240	1126	754	7.34e4	6.31e4	65.2	YES	NO	bb	bb	0.881	
1234679-HPCDD	39.000	0.975	3.726e4	3.415e4	1.228	1.091	1.050	1169	767	6.25e5	5.69e5	534.8	YES	NO	bb	bb	8.812	
Total-tetrafurans			1.882e4		0.891			888		2.78e5							2.579	
Total-penta1			4.471e3					323		6.52e4							0.553	
Total-pentafurans			1.769e4		0.903			1329		2.81e5							2.022	
Total-hexafurans			1.309e4		0.972			616		1.94e5							2.364	
Total-heptafurans			1.228e4		1.141			461		2.05e5							2.522	
Total-Furans			7.068e4		0.989			888		1.08e6							11.347	
Total-tetraoxins			2.364e4		0.982			913		3.72e5							4.966	
Total-pentadioxins			3.087e4		1.387			1231		4.27e5							4.084	
Total-hexadioxins			6.417e4		0.944			1126		9.82e5							12.971	
Total-heptadioxins			5.472e4		1.137			1169		9.02e5							13.735	
Total-Dioxins			2.330e5		1.088			913		3.41e6							60.923	
Total-TEQ			3.037e5					913		4.48e6							72.270	
FUNCTION1 PFK			1.193e7					477941		3.17e7							0.000	
FUNCTION2 PFK			4.500e5					319020		9.70e6							0.000	
FUNCTION3 PFK			5.189e5					388634		3.43e6							0.000	
FUNCTION4 PFK			5.865e6					222921		5.62e7								
FUNCTION5 PFK			0.000e0					176374		0.00e0								
FUNCTION1 HXCD...			3.874e3					330		5.24e4							0.000	
FUNCTION1 HPCD...			3.752e2					271		5.51e3							0.000	
FUNCTION2 HPCD...			6.520e2					482		1.30e4							0.000	
FUNCTION3 OCDPE			1.141e2					625		2.53e3							0.000	
FUNCTION4 NCDPE			2.691e3					421		4.49e4							0.000	
FUNCTION5 DCDPE			0.000e0					270		0.00e0							0.000	

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

TF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-tetrafurans	23.25	1.084e3	1.248e3	0.891	0.87	0.77	16.3	YES	NO	dd	dd	0.141
Total-tetrafurans	23.13	1.779e3	1.854e3	0.891	0.96	0.77	24.3	YES	YES	dd	dd	0.219
Total-tetrafurans	22.93	1.278e3	1.470e3	0.891	0.87	0.77	21.8	YES	NO	bd	bd	0.166
Total-tetrafurans	22.35	7.851e2	8.858e2	0.891	0.89	0.77	13.8	YES	YES	db	db	0.101
1368-TCDF	22.10	1.414e3	1.294e3	1.020	1.09	0.77	18.4	YES	YES	dd	bd	0.143
Total-tetrafurans	25.42	5.823e2	8.186e2	0.891	0.71	0.77	8.9	YES	NO	db	db	0.085
Total-tetrafurans	25.36	3.595e2	6.615e2	0.891	0.54	0.77	9.1	YES	YES	dd	dd	0.062
Total-tetrafurans	25.12	2.939e2	8.142e2	0.891	0.36	0.77	4.7	YES	YES	bd	dd	0.067
Total-tetrafurans	24.91	6.516e2	9.028e2	0.891	0.72	0.77	10.2	YES	NO	bb	bd	0.094
Total-tetrafurans	24.68	1.315e3	1.773e3	0.891	0.74	0.77	20.5	YES	NO	bb	bb	0.187
Total-tetrafurans	24.50	1.369e3	1.910e3	0.891	0.72	0.77	23.1	YES	NO	db	db	0.198
Total-tetrafurans	24.35	6.384e2	7.811e2	0.891	0.82	0.77	12.2	YES	NO	dd	dd	0.086
Total-tetrafurans	24.27	1.577e3	1.790e3	0.891	0.88	0.77	21.1	YES	NO	dd	bd	0.203
Total-tetrafurans	23.84	5.346e2	1.075e3	0.891	0.50	0.77	9.6	YES	YES	db	db	0.097
Total-tetrafurans	23.71	3.873e2	5.253e2	0.891	0.74	0.77	7.1	YES	NO	dd	dd	0.055
Total-tetrafurans	23.59	5.395e2	9.455e2	0.891	0.57	0.77	10.4	YES	YES	bd	bd	0.090
Total-tetrafurans	23.44	4.542e2	6.711e2	0.891	0.68	0.77	8.3	YES	NO	db	db	0.068
Total-tetrafurans	23.34	8.125e2	1.148e3	0.891	0.71	0.77	16.1	YES	NO	dd	dd	0.118
Total-tetrafurans	25.83	1.224e3	1.369e3	0.891	0.89	0.77	22.7	YES	YES	db	db	0.157
Total-tetrafurans	25.74	4.076e2	4.874e2	0.891	0.84	0.77	10.1	YES	NO	bd	dd	0.054
2378-TCDF	25.60	1.337e3	1.584e3	0.834	0.84	0.77	23.9	YES	NO	bb	bd	0.189

PP

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-penta1	27.02	4.471e3	3.464e3		1.29	1.55	201.9	YES	YES	db	bb	0.553

Quantify Totals Report MassLynx MassLynx V4.1 SCN909
 Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

PF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-pentafurans	28.48	1.406e3	1.043e3	0.903	1.35	1.55	13.9	YES	NO	dd	MM	0.177
2 Total-pentafurans	28.40	1.102e3	4.550e2	0.903	2.42	1.55	12.5	YES	YES	bd	bd	0.112
3 Total-pentafurans	30.95	4.296e2	2.844e2	0.903	1.51	1.55	5.6	YES	NO	dd	dd	0.052
4 Total-pentafurans	30.84	1.328e3	5.513e2	0.903	2.41	1.55	13.9	YES	YES	bd	bd	0.136
5 Total-pentafurans	30.07	7.120e2	4.813e2	0.903	1.48	1.55	8.9	YES	NO	db	MM	0.086
6 Total-pentafurans	29.96	1.188e3	5.951e2	0.903	2.00	1.55	14.7	YES	YES	bd	bd	0.129
7 12378-PeCDF	29.76	2.254e3	1.330e3	0.852	1.70	1.55	29.1	YES	NO	bb	bb	0.269
8 Total-pentafurans	29.41	2.137e3	1.322e3	0.903	1.62	1.55	21.8	YES	NO	MM	MM	0.250
9 Total-pentafurans	28.81	2.438e2	1.849e2	0.903	1.32	1.55	3.5	YES	NO	db	db	0.031
10 Total-pentafurans	28.67	2.072e3	1.428e3	0.903	1.45	1.55	27.6	YES	NO	dd	dd	0.253
11 Total-pentafurans	28.60	3.038e3	1.760e3	0.903	1.73	1.55	38.1	YES	NO	dd	dd	0.347
12 23478-PeCDF	31.12	1.776e3	7.861e2	0.944	2.26	1.55	22.0	YES	YES	dd	db	0.181

HF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 123478-HxCDF	34.79	1.237e3	1.121e3	0.963	1.10	1.24	32.5	YES	NO	bd	bd	0.236
2 Total-hexafurans	34.64	4.685e2	3.417e2	0.972	1.37	1.24	12.7	YES	NO	bb	bb	0.082
3 Total-hexafurans	34.14	2.800e3	2.189e3	0.972	1.28	1.24	70.0	YES	NO	bb	bb	0.507
4 Total-hexafurans	33.82	1.929e2	1.527e2	0.972	1.26	1.24	5.0	YES	NO	bb	bb	0.035
5 Total-hexafurans	33.60	4.753e2	4.141e2	0.972	1.15	1.24	10.6	YES	NO	bb	bb	0.090
6 Total-hexafurans	33.27	4.463e3	3.443e3	0.972	1.30	1.24	98.6	YES	NO	db	MM	0.804
7 123468-HxCDF	33.06	1.478e3	1.128e3	1.051	1.31	1.24	37.0	YES	NO	bd	bd	0.239
8 123789-HxCDF	36.80	3.122e2	2.325e2	0.938	1.34	1.24	7.7	YES	NO	MM	bb	0.063
9 234678-HxCDF	35.86	7.489e2	7.904e2	0.991	0.95	1.24	17.9	YES	YES	bb	bb	0.158
10 123678-HxCDF	34.95	9.103e2	6.110e2	0.917	1.49	1.24	23.0	YES	YES	db	db	0.149

HPF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-heptafurans	39.21	5.777e3	5.687e3	1.141	1.02	1.05	204.2	YES	NO	bb	bb	1.245
2 Total-heptafurans	38.98	1.089e2	2.017e2	1.141	0.54	1.05	6.0	YES	YES	bb	bb	0.034
3 1234678-HpCDF	38.56	6.394e3	5.917e3	1.119	1.08	1.05	235.6	YES	NO	bb	bb	1.243

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HIF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.25	1.084e3	1.248e3	0.891	0.87	16.3	YES	NO	dd	dd	0.141
2	Total-tetrafurans	23.13	1.779e3	1.854e3	0.891	0.96	24.3	YES	YES	dd	dd	0.219
3	Total-tetrafurans	22.93	1.278e3	1.470e3	0.891	0.87	21.8	YES	NO	bd	bd	0.166
4	Total-tetrafurans	22.35	7.851e2	8.858e2	0.891	0.89	13.8	YES	YES	db	db	0.101
5	1368-TCDF	22.10	1.414e3	1.294e3	1.020	1.09	18.4	YES	YES	dd	bd	0.143
6	Total-Furans	21.75	2.574e2	1.121e2	0.989	2.30	4.4	NO	YES	bd	bb	0.020
7	Total-Furans	21.03	7.464e1	1.653e2	0.989	0.45	1.9	NO	YES	bb	bb	0.013
8	Total-tetrafurans	25.42	5.823e2	8.186e2	0.891	0.71	8.9	YES	NO	db	db	0.085
9	Total-tetrafurans	25.36	3.595e2	6.615e2	0.891	0.54	9.1	YES	YES	dd	dd	0.062
10	Total-tetrafurans	25.12	2.939e2	8.142e2	0.891	0.36	4.7	YES	YES	bd	dd	0.067
11	Total-tetrafurans	24.91	6.516e2	9.028e2	0.891	0.72	10.2	YES	NO	bb	bd	0.094
12	Total-tetrafurans	24.68	1.315e3	1.773e3	0.891	0.74	20.5	YES	NO	bb	bb	0.187
13	Total-tetrafurans	24.50	1.369e3	1.910e3	0.891	0.72	23.1	YES	NO	db	db	0.198
14	Total-tetrafurans	24.35	6.384e2	7.811e2	0.891	0.82	12.2	YES	NO	dd	dd	0.086
15	Total-tetrafurans	24.27	1.577e3	1.790e3	0.891	0.88	21.1	YES	NO	dd	bd	0.203
16	Total-tetrafurans	23.84	5.346e2	1.075e3	0.891	0.50	9.6	YES	YES	db	db	0.097
17	Total-tetrafurans	23.71	3.873e2	5.253e2	0.891	0.74	7.1	YES	NO	dd	dd	0.055
18	Total-tetrafurans	23.59	5.395e2	9.455e2	0.891	0.57	10.4	YES	YES	bd	bd	0.090
19	Total-tetrafurans	23.44	4.542e2	6.711e2	0.891	0.68	8.3	YES	NO	db	db	0.068
20	Total-tetrafurans	23.34	8.125e2	1.148e3	0.891	0.71	16.1	YES	NO	dd	dd	0.118
21	Total-Furans	27.70	1.308e2	9.720e1	0.989	1.35	2.5	NO	YES	bb	dd	0.012
22	Total-tetrafurans	25.83	1.224e3	1.369e3	0.891	0.89	22.7	YES	YES	db	db	0.157
23	Total-tetrafurans	25.74	4.076e2	4.874e2	0.891	0.84	10.1	YES	NO	bd	dd	0.054
24	2378-TCDF	25.60	1.337e3	1.584e3	0.834	0.84	23.9	YES	NO	bb	bd	0.189
25	Total-pentafurans	28.48	1.406e3	1.043e3	0.903	1.35	13.9	YES	NO	dd	MM	0.177
26	Total-pentafurans	28.40	1.102e3	4.550e2	0.903	2.42	12.5	YES	YES	bd	bd	0.112
27	Total-pentafurans	30.95	4.296e2	2.844e2	0.903	1.51	5.6	YES	NO	dd	dd	0.052
28	Total-pentafurans	30.84	1.328e3	5.513e2	0.903	2.41	13.9	YES	YES	bd	bd	0.136
29	Total-pentafurans	30.07	7.120e2	4.813e2	0.903	1.48	8.9	YES	NO	db	MM	0.086
30	Total-pentafurans	29.96	1.188e3	5.951e2	0.903	2.00	14.7	YES	YES	bd	bd	0.129
31	12378-PeCDF	29.76	2.254e3	1.330e3	0.852	1.70	29.1	YES	NO	bb	bb	0.269
32	Total-pentafurans	29.41	2.137e3	1.322e3	0.903	1.62	21.8	YES	NO	MM	MM	0.250
33	Total-pentafurans	28.81	2.438e2	1.849e2	0.903	1.32	3.5	YES	NO	db	db	0.031
34	Total-pentafurans	28.67	2.072e3	1.428e3	0.903	1.45	27.6	YES	NO	dd	dd	0.253
35	Total-pentafurans	28.60	3.038e3	1.760e3	0.903	1.73	38.1	YES	NO	dd	dd	0.347
36	23478-PeCDF	31.12	1.776e3	7.861e2	0.944	2.26	22.0	YES	YES	dd	db	0.181
37	123478-HxCDF	34.79	1.237e3	1.121e3	0.963	1.10	32.5	YES	NO	bd	bd	0.236

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HIF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38 Total-hexafurans	34.64	4.685e2	3.417e2	0.972	1.37	1.24	12.7	YES	NO	bb	bb	0.082
39 Total-hexafurans	34.14	2.800e3	2.189e3	0.972	1.28	1.24	70.0	YES	NO	bb	bb	0.507
40 Total-hexafurans	33.82	1.929e2	1.527e2	0.972	1.26	1.24	5.0	YES	NO	bb	bb	0.035
41 Total-hexafurans	33.60	4.753e2	4.141e2	0.972	1.15	1.24	10.6	YES	NO	bb	bb	0.090
42 Total-hexafurans	33.27	4.463e3	3.443e3	0.972	1.30	1.24	98.6	YES	NO	db	MM	0.804
43 123468-HxCDF	33.06	1.478e3	1.128e3	1.051	1.31	1.24	37.0	YES	NO	bd	bd	0.239
44 123789-HxCDF	36.80	3.122e2	2.325e2	0.938	1.34	1.24	7.7	YES	NO	MM	bb	0.063
45 234678-HxCDF	35.86	7.489e2	7.904e2	0.991	0.95	1.24	17.9	YES	YES	bb	bb	0.158
46 123678-HxCDF	34.95	9.103e2	6.110e2	0.917	1.49	1.24	23.0	YES	YES	db	db	0.149
47 Total-heptafurans	39.21	5.777e3	5.687e3	1.141	1.02	1.05	204.2	YES	NO	bb	bb	1.245
48 Total-heptafurans	38.98	1.089e2	2.017e2	1.141	0.54	1.05	6.0	YES	YES	bb	bb	0.034
49 1234678-HpCDF	38.56	6.394e3	5.917e3	1.119	1.08	1.05	235.6	YES	NO	bb	bb	1.243
50 OCDF	44.95	3.871e3	3.504e3	1.145	1.10	0.89	110.0	YES	YES	bb	bb	1.262
51 Total-penta1	27.02	4.471e3	3.464e3		1.29	1.55	201.9	YES	YES	db	bb	0.553

TD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetradoxins	23.85	3.354e2	4.993e2	0.982	0.67	0.77	6.2	YES	NO	bb	bb	0.080
2 Total-tetradoxins	23.64	5.504e3	6.797e3	0.982	0.81	0.77	97.1	YES	NO	bb	bb	1.183
3 1368-TCDD	23.37	1.185e4	1.407e4	1.026	0.84	0.77	207.9	YES	NO	bb	bb	2.386
4 Total-tetradoxins	26.37	2.796e2	2.963e2	0.982	0.94	0.77	5.1	YES	YES	db	db	0.055
5 2378-TCDD	26.24	2.318e2	6.916e2	0.982	0.34	0.77	4.6	YES	YES	bd	bd	0.089
6 Total-tetradoxins	25.84	1.421e3	2.016e3	0.982	0.70	0.77	18.7	YES	NO	bb	bb	0.331
7 Total-tetradoxins	25.57	2.836e2	1.381e2	0.982	2.05	0.77	4.2	YES	YES	bb	bb	0.041
8 Total-tetradoxins	25.42	7.066e2	7.223e2	0.982	0.98	0.77	11.5	YES	YES	bb	bb	0.137
9 Total-tetradoxins	25.21	2.960e2	4.271e2	0.982	0.69	0.77	5.7	YES	NO	bb	db	0.070
10 Total-tetradoxins	24.85	1.598e3	2.010e3	0.982	0.80	0.77	27.9	YES	NO	bb	bb	0.347
11 Total-tetradoxins	24.58	1.138e3	1.440e3	0.982	0.79	0.77	18.3	YES	NO	db	bb	0.248

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-pentadioxins	29.75	7.086e3	4.119e3	1.387	1.72	1.55	88.0	YES	NO	bd	bd	1.009
2 Total-pentadioxins	29.14	4.125e2	1.965e2	1.387	2.10	1.55	5.6	YES	YES	bb	bb	0.055
3 12479-PECDD	28.67	8.027e3	1.516e3	1.807	5.30	1.55	63.7	YES	YES	MM	MM	0.660
4 12389-PECDD	31.74	2.392e2	1.845e2	1.326	1.30	1.55	4.0	YES	YES	bb	bb	0.040
5 12378-PeCDD	31.34	1.242e3	7.599e2	1.029	1.63	1.55	14.5	YES	NO	bb	bb	0.243
6 Total-pentadioxins	30.69	2.277e3	1.324e3	1.387	1.72	1.55	28.6	YES	NO	bb	bb	0.324
7 Total-pentadioxins	30.30	1.049e3	5.858e2	1.387	1.79	1.55	12.1	YES	YES	MM	db	0.147
8 Total-pentadioxins	30.12	4.320e3	2.711e3	1.387	1.59	1.55	53.6	YES	NO	dd	dd	0.633
9 Total-pentadioxins	29.97	8.731e2	3.646e2	1.387	2.39	1.55	10.7	YES	YES	dd	dd	0.111
10 Total-pentadioxins	29.91	9.004e2	4.447e2	1.387	2.02	1.55	13.9	YES	YES	dd	dd	0.121
11 Total-pentadioxins	28.63	4.442e3	3.768e3	1.387	1.18	1.55	51.8	YES	YES	MM	MM	0.739

HD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 123789-HxCDD	36.45	1.698e3	1.235e3	0.918	1.37	1.24	25.4	YES	NO	bb	bb	0.339
2 Total-hexadioxins	36.25	3.754e2	3.097e2	0.944	1.21	1.24	6.3	YES	NO	bb	bb	0.077
3 123678-HxCDD	36.08	3.312e3	2.437e3	0.904	1.36	1.24	54.5	YES	NO	db	db	0.661
4 123478-HxCDD	35.97	6.348e2	5.225e2	0.921	1.22	1.24	8.4	YES	NO	bd	bd	0.136
5 Total-hexadioxins	35.16	9.082e2	6.965e2	0.944	1.30	1.24	11.9	YES	NO	db	db	0.180
6 Total-hexadioxins	35.06	1.088e4	9.005e3	0.944	1.21	1.24	106.2	YES	NO	bd	bd	2.235
7 Total-hexadioxins	34.67	1.434e4	1.176e4	0.944	1.22	1.24	200.8	YES	NO	bb	bb	2.934
8 124679-HXCDD	33.86	4.407e3	3.989e3	1.031	1.10	1.24	65.2	YES	NO	bb	bb	0.881
9 Total-hexadioxins	33.60	2.763e4	2.153e4	0.944	1.28	1.24	393.8	YES	NO	bb	bb	5.527

HPD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 1234678-HpCDD	40.04	1.747e4	1.653e4	1.046	1.06	1.05	237.1	YES	NO	bb	bb	4.923
2 1234679-HPCDD	39.00	3.726e4	3.415e4	1.228	1.09	1.05	534.8	YES	NO	bb	bb	8.812

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Dioxins,TD,PD,HD,HPCDD,OD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetradoxins	23.85	3.354e2	4.993e2	0.982	0.67	0.77	6.2	YES	NO	bb	bb	0.080
2 Total-tetradoxins	23.64	5.504e3	6.797e3	0.982	0.81	0.77	97.1	YES	NO	bb	bb	1.183
3 1368-TCDD	23.37	1.185e4	1.407e4	1.026	0.84	0.77	207.9	YES	NO	bb	bb	2.386
4 Total-tetradoxins	26.37	2.796e2	2.963e2	0.982	0.94	0.77	5.1	YES	YES	db	db	0.055
5 2378-TCDD	26.24	2.318e2	6.916e2	0.982	0.34	0.77	4.6	YES	YES	bd	bd	0.089
6 Total-tetradoxins	25.84	1.421e3	2.016e3	0.982	0.70	0.77	18.7	YES	NO	bb	bb	0.331
7 Total-tetradoxins	25.57	2.836e2	1.381e2	0.982	2.05	0.77	4.2	YES	YES	bb	bb	0.041
8 Total-tetradoxins	25.42	7.066e2	7.223e2	0.982	0.98	0.77	11.5	YES	YES	bb	bb	0.137
9 Total-tetradoxins	25.21	2.960e2	4.271e2	0.982	0.69	0.77	5.7	YES	NO	bb	db	0.070
10 Total-tetradoxins	24.85	1.598e3	2.010e3	0.982	0.80	0.77	27.9	YES	NO	bb	bb	0.347
11 Total-tetradoxins	24.58	1.138e3	1.440e3	0.982	0.79	0.77	18.3	YES	NO	db	bb	0.248
12 Total-pentadoxins	29.75	7.086e3	4.119e3	1.387	1.72	1.55	88.0	YES	NO	bd	bd	1.009
13 Total-pentadoxins	29.14	4.125e2	1.965e2	1.387	2.10	1.55	5.6	YES	YES	bb	bb	0.055
14 12479-PECDD	28.67	8.027e3	1.516e3	1.807	5.30	1.55	63.7	YES	YES	MM	MM	0.660
15 12389-PECDD	31.74	2.392e2	1.845e2	1.326	1.30	1.55	4.0	YES	YES	bb	bb	0.040
16 12378-PeCDD	31.34	1.242e3	7.599e2	1.029	1.63	1.55	14.5	YES	NO	bb	bb	0.243
17 Total-pentadoxins	30.69	2.277e3	1.324e3	1.387	1.72	1.55	28.6	YES	NO	bb	bb	0.324
18 Total-pentadoxins	30.30	1.049e3	5.858e2	1.387	1.79	1.55	12.1	YES	YES	MM	db	0.147
19 Total-pentadoxins	30.12	4.320e3	2.711e3	1.387	1.59	1.55	53.6	YES	NO	dd	dd	0.633
20 Total-pentadoxins	29.97	8.731e2	3.646e2	1.387	2.39	1.55	10.7	YES	YES	dd	dd	0.111
21 Total-pentadoxins	29.91	9.004e2	4.447e2	1.387	2.02	1.55	13.9	YES	YES	dd	dd	0.121
22 123789-HxCDD	36.45	1.698e3	1.235e3	0.918	1.37	1.24	25.4	YES	NO	bb	bb	0.339
23 Total-hexadoxins	36.25	3.754e2	3.097e2	0.944	1.21	1.24	6.3	YES	NO	bb	bb	0.077
24 123678-HxCDD	36.08	3.312e3	2.437e3	0.904	1.36	1.24	54.5	YES	NO	db	db	0.661
25 123478-HxCDD	35.97	6.348e2	5.225e2	0.921	1.22	1.24	8.4	YES	NO	bd	bd	0.136
26 Total-hexadoxins	35.16	9.082e2	6.965e2	0.944	1.30	1.24	11.9	YES	NO	db	db	0.180
27 Total-hexadoxins	35.06	1.088e4	9.005e3	0.944	1.21	1.24	106.2	YES	NO	bd	bd	2.235
28 Total-hexadoxins	34.67	1.434e4	1.176e4	0.944	1.22	1.24	200.8	YES	NO	bb	bb	2.934
29 124679-HxCDD	33.86	4.407e3	3.989e3	1.031	1.10	1.24	65.2	YES	NO	bb	bb	0.881
30 Total-hexadoxins	33.60	2.763e4	2.153e4	0.944	1.28	1.24	393.8	YES	NO	bb	bb	5.527
31 1234678-HpCDD	40.04	1.747e4	1.653e4	1.046	1.06	1.05	237.1	YES	NO	bb	bb	4.923
32 1234679-HPCDD	39.00	3.726e4	3.415e4	1.228	1.09	1.05	534.8	YES	NO	bb	bb	8.812
33 OCDD	44.71	5.958e4	6.678e4	0.984	0.89	0.89	1135.9	YES	NO	bb	bb	25.166
34 Total-pentadoxins	28.63	4.442e3	3.768e3	1.387	1.18	1.55	51.8	YES	YES	MM	MM	0.739

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	23.25	1.084e3	1.248e3	0.891	0.87	0.77	16.3	YES	NO	dd	dd	0.141
2 Total-tetraturans	23.13	1.779e3	1.854e3	0.891	0.96	0.77	24.3	YES	YES	dd	dd	0.219
3 Total-tetraturans	22.93	1.278e3	1.470e3	0.891	0.87	0.77	21.8	YES	NO	bd	bd	0.166
4 Total-tetraturans	22.35	7.851e2	8.858e2	0.891	0.89	0.77	13.8	YES	YES	db	db	0.101
5 1368-TCDF	22.10	1.414e3	1.294e3	1.020	1.09	0.77	18.4	YES	YES	dd	bd	0.143
6 Total-Furans	21.75	2.574e2	1.121e2	0.989	2.30	0.77	4.4	NO	YES	bd	bb	0.020
7 Total-Furans	21.03	7.464e1	1.653e2	0.989	0.45	0.77	1.9	NO	YES	bb	bb	0.013
8 Total-tetraturans	25.42	5.823e2	8.186e2	0.891	0.71	0.77	8.9	YES	NO	db	db	0.085
9 Total-tetraturans	25.36	3.595e2	6.615e2	0.891	0.54	0.77	9.1	YES	YES	dd	dd	0.062
10 Total-tetraturans	25.12	2.939e2	8.142e2	0.891	0.36	0.77	4.7	YES	YES	bd	dd	0.067
11 Total-tetraturans	24.91	6.516e2	9.028e2	0.891	0.72	0.77	10.2	YES	NO	bb	bd	0.094
12 Total-tetraturans	24.68	1.315e3	1.773e3	0.891	0.74	0.77	20.5	YES	NO	bb	bb	0.187
13 Total-tetraturans	24.50	1.369e3	1.910e3	0.891	0.72	0.77	23.1	YES	NO	db	db	0.198
14 Total-tetraturans	24.35	6.384e2	7.811e2	0.891	0.82	0.77	12.2	YES	NO	dd	dd	0.086
15 Total-tetraturans	24.27	1.577e3	1.790e3	0.891	0.88	0.77	21.1	YES	NO	dd	bd	0.203
16 Total-tetraturans	23.84	5.346e2	1.075e3	0.891	0.50	0.77	9.6	YES	YES	db	db	0.097
17 Total-tetraturans	23.71	3.873e2	5.253e2	0.891	0.74	0.77	7.1	YES	NO	dd	dd	0.055
18 Total-tetraturans	23.59	5.395e2	9.455e2	0.891	0.57	0.77	10.4	YES	YES	bd	bd	0.090
19 Total-tetraturans	23.44	4.542e2	6.711e2	0.891	0.68	0.77	8.3	YES	NO	db	db	0.068
20 Total-tetraturans	23.34	8.125e2	1.148e3	0.891	0.71	0.77	16.1	YES	NO	dd	dd	0.118
21 Total-Furans	27.70	1.308e2	9.720e1	0.989	1.35	0.77	2.5	NO	YES	bb	dd	0.012
22 Total-tetraturans	25.83	1.224e3	1.369e3	0.891	0.89	0.77	22.7	YES	YES	db	db	0.157
23 Total-tetraturans	25.74	4.076e2	4.874e2	0.891	0.84	0.77	10.1	YES	NO	bd	dd	0.054
24 2378-TCDF	25.60	1.337e3	1.584e3	0.834	0.84	0.77	23.9	YES	NO	bb	bd	0.189
25 Total-pentaturans	28.48	1.406e3	1.043e3	0.903	1.35	1.55	13.9	YES	NO	dd	MM	0.177
26 Total-pentaturans	28.40	1.102e3	4.550e2	0.903	2.42	1.55	12.5	YES	YES	bd	bd	0.112
27 Total-pentaturans	30.95	4.296e2	2.844e2	0.903	1.51	1.55	5.6	YES	NO	dd	dd	0.052
28 Total-pentaturans	30.84	1.328e3	5.513e2	0.903	2.41	1.55	13.9	YES	YES	bd	bd	0.136
29 Total-pentaturans	30.07	7.120e2	4.813e2	0.903	1.48	1.55	8.9	YES	NO	db	MM	0.086
30 Total-pentaturans	29.96	1.188e3	5.951e2	0.903	2.00	1.55	14.7	YES	YES	bd	bd	0.129
31 12378-PeCDF	29.76	2.254e3	1.330e3	0.852	1.70	1.55	29.1	YES	NO	bb	bb	0.269
32 Total-pentaturans	29.41	2.137e3	1.322e3	0.903	1.62	1.55	21.8	YES	NO	MM	MM	0.250
33 Total-pentaturans	28.81	2.438e2	1.849e2	0.903	1.32	1.55	3.5	YES	NO	db	db	0.031
34 Total-pentaturans	28.67	2.072e3	1.428e3	0.903	1.45	1.55	27.6	YES	NO	dd	dd	0.253
35 Total-pentaturans	28.60	3.038e3	1.760e3	0.903	1.73	1.55	38.1	YES	NO	dd	dd	0.347
36 23478-PeCDF	31.12	1.776e3	7.861e2	0.944	2.26	1.55	22.0	YES	YES	dd	db	0.181
37 123478-HxCDF	34.79	1.237e3	1.121e3	0.963	1.10	1.24	32.5	YES	NO	bd	bd	0.236

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexafurans	34.64	4.685e2	3.417e2	0.972	1.37	1.24	YES	NO	bb	bb	0.082
39	Total-hexafurans	34.14	2.800e3	2.189e3	0.972	1.28	1.24	YES	NO	bb	bb	0.507
40	Total-hexafurans	33.82	1.929e2	1.527e2	0.972	1.26	1.24	YES	NO	bb	bb	0.035
41	Total-hexafurans	33.60	4.753e2	4.141e2	0.972	1.15	1.24	YES	NO	bb	bb	0.090
42	Total-hexafurans	33.27	4.463e3	3.443e3	0.972	1.30	1.24	YES	NO	db	MM	0.804
43	123468-HxCDF	33.06	1.478e3	1.128e3	1.051	1.31	1.24	YES	NO	bd	bd	0.239
44	123789-HxCDF	36.80	3.122e2	2.325e2	0.938	1.34	1.24	YES	NO	MM	bb	0.063
45	234678-HxCDF	35.86	7.489e2	7.904e2	0.991	0.95	1.24	YES	YES	bb	bb	0.158
46	123678-HxCDF	34.95	9.103e2	6.110e2	0.917	1.49	1.24	YES	YES	db	db	0.149
47	Total-heptafurans	39.21	5.777e3	5.687e3	1.141	1.02	1.05	YES	NO	bb	bb	1.245
48	Total-heptafurans	38.98	1.089e2	2.017e2	1.141	0.54	1.05	YES	YES	bb	bb	0.034
49	1234678-HpCDF	38.56	6.394e3	5.917e3	1.119	1.08	1.05	YES	NO	bb	bb	1.243
50	OCDF	44.95	3.871e3	3.504e3	1.145	1.10	0.89	YES	YES	bb	bb	1.262
51	Total-penta1	27.02	4.471e3	3.464e3	1.29	1.29	1.55	YES	YES	db	bb	0.553
52	Total-tetradiioxins	23.85	3.354e2	4.993e2	0.982	0.67	0.77	YES	NO	bb	bb	0.080
53	Total-tetradiioxins	23.64	5.504e3	6.797e3	0.982	0.81	0.77	YES	NO	bb	bb	1.183
54	1368-TCDD	23.37	1.185e4	1.407e4	1.026	0.84	0.77	YES	NO	bb	bb	2.386
55	Total-tetradiioxins	26.37	2.796e2	2.963e2	0.982	0.94	0.77	YES	YES	db	db	0.055
56	2378-TCDD	26.24	2.318e2	6.916e2	0.982	0.34	0.77	YES	YES	bd	bd	0.089
57	Total-tetradiioxins	25.84	1.421e3	2.016e3	0.982	0.70	0.77	YES	NO	bb	bb	0.331
58	Total-tetradiioxins	25.57	2.836e2	1.381e2	0.982	2.05	0.77	YES	YES	bb	bb	0.041
59	Total-tetradiioxins	25.42	7.066e2	7.223e2	0.982	0.98	0.77	YES	YES	bb	bb	0.137
60	Total-tetradiioxins	25.21	2.960e2	4.271e2	0.982	0.69	0.77	YES	NO	bb	db	0.070
61	Total-tetradiioxins	24.85	1.598e3	2.010e3	0.982	0.80	0.77	YES	NO	bb	bb	0.347
62	Total-tetradiioxins	24.58	1.138e3	1.440e3	0.982	0.79	0.77	YES	NO	db	bb	0.248
63	Total-pentadiioxins	29.75	7.086e3	4.119e3	1.387	1.72	1.55	YES	NO	bd	bd	1.009
64	Total-pentadiioxins	29.14	4.125e2	1.965e2	1.387	2.10	1.55	YES	YES	bb	bb	0.055
65	12479-PECDD	28.67	8.027e3	1.516e3	1.807	5.30	1.55	YES	YES	MM	MM	0.660
66	12389-PECDD	31.74	2.392e2	1.845e2	1.326	1.30	1.55	YES	YES	bb	bb	0.040
67	12378-PeCDD	31.34	1.242e3	7.599e2	1.029	1.63	1.55	YES	NO	bb	bb	0.243
68	Total-pentadiioxins	30.69	2.277e3	1.324e3	1.387	1.72	1.55	YES	NO	bb	bb	0.324
69	Total-pentadiioxins	30.30	1.049e3	5.858e2	1.387	1.79	1.55	YES	YES	MM	db	0.147
70	Total-pentadiioxins	30.12	4.320e3	2.711e3	1.387	1.59	1.55	YES	NO	dd	dd	0.633
71	Total-pentadiioxins	29.97	8.731e2	3.646e2	1.387	2.39	1.55	YES	YES	dd	dd	0.111
72	Total-pentadiioxins	29.91	9.004e2	4.447e2	1.387	2.02	1.55	YES	YES	dd	dd	0.121
73	123789-HxCDD	36.45	1.698e3	1.235e3	0.918	1.37	1.24	YES	NO	bb	bb	0.339
74	Total-hexadiioxins	36.25	3.754e2	3.097e2	0.944	1.21	1.24	YES	NO	bb	bb	0.077

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
75	123678-HxCDD	3.312e3	2.437e3	0.904	1.36	1.24	54.5	YES	NO	db	db	0.661
76	123478-HxCDD	6.348e2	5.225e2	0.921	1.22	1.24	8.4	YES	NO	bd	bd	0.136
77	Total-hexadioxins	9.082e2	6.965e2	0.944	1.30	1.24	11.9	YES	NO	db	db	0.180
78	Total-hexadioxins	1.088e4	9.005e3	0.944	1.21	1.24	106.2	YES	NO	bd	bd	2.235
79	Total-hexadioxins	1.434e4	1.176e4	0.944	1.22	1.24	200.8	YES	NO	bb	bb	2.934
80	124679-HxCDD	4.407e3	3.989e3	1.031	1.10	1.24	65.2	YES	NO	bb	bb	0.881
81	Total-hexadioxins	2.763e4	2.153e4	0.944	1.28	1.24	393.8	YES	NO	bb	bb	5.527
82	1234678-HpCDD	1.747e4	1.653e4	1.046	1.06	1.05	237.1	YES	NO	bb	bb	4.923
83	1234679-HPcDD	3.726e4	3.415e4	1.228	1.09	1.05	534.8	YES	NO	bb	bb	8.812
84	OCDD	5.958e4	6.678e4	0.984	0.89	0.89	1135.9	YES	NO	bb	bb	25.166
85	Total-pentadioxins	4.442e3	3.768e3	1.387	1.18	1.55	51.8	YES	YES	MM	MM	0.739

PFK1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	5.215e4					2.2	NO		bb		
2	FUNCTION1 PFK	4.580e6					16.3	YES		bb		
3	FUNCTION1 PFK	1.328e6					28.8	YES		db		
4	FUNCTION1 PFK	5.969e6					19.1	YES		bd		

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PFK2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2	PFK	30.90	1.331e3			0.4	NO		bb		0.000
2	FUNCTION2	PFK	30.83	5.362e3			0.8	NO		bb		0.000
3	FUNCTION2	PFK	30.22	1.715e3			0.5	NO		bb		0.000
4	FUNCTION2	PFK	30.01	2.082e3			0.6	NO		bb		0.000
5	FUNCTION2	PFK	29.83	1.062e4			1.1	NO		bb		0.000
6	FUNCTION2	PFK	29.26	1.708e3			0.5	NO		bb		0.000
7	FUNCTION2	PFK	29.07	2.621e4			1.7	NO		bb		0.000
8	FUNCTION2	PFK	28.89	2.045e3			0.6	NO		bb		0.000
9	FUNCTION2	PFK	28.82	1.356e4			1.2	NO		bb		0.000
10	FUNCTION2	PFK	28.66	2.171e3			0.6	NO		bb		0.000
11	FUNCTION2	PFK	28.62	2.084e3			0.6	NO		bb		0.000
12	FUNCTION2	PFK	28.45	1.110e4			1.2	NO		bb		0.000
13	FUNCTION2	PFK	28.30	1.013e4			1.2	NO		bb		0.000
14	FUNCTION2	PFK	28.20	1.595e3			0.4	NO		bb		0.000
15	FUNCTION2	PFK	28.07	3.776e3			0.7	NO		bb		0.000
16	FUNCTION2	PFK	27.99	2.044e3			0.6	NO		bb		0.000
17	FUNCTION2	PFK	32.57	1.564e4			1.3	NO		bb		0.000
18	FUNCTION2	PFK	32.42	1.711e4			1.7	NO		bb		0.000
19	FUNCTION2	PFK	32.24	1.648e5			3.6	YES		db		0.000
20	FUNCTION2	PFK	32.14	2.168e4			2.0	NO		dd		0.000
21	FUNCTION2	PFK	32.04	3.306e4			1.4	NO		bd		0.000
22	FUNCTION2	PFK	31.94	5.325e3			0.8	NO		bb		0.000
23	FUNCTION2	PFK	31.87	2.163e4			1.6	NO		bb		0.000
24	FUNCTION2	PFK	31.59	2.309e4			1.2	NO		db		0.000
25	FUNCTION2	PFK	31.49	1.382e4			1.6	NO		bd		0.000
26	FUNCTION2	PFK	31.40	1.467e4			1.0	NO		bb		0.000
27	FUNCTION2	PFK	31.05	2.170e4			1.6	NO		bb		0.000

PFK3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3	PFK	36.07	2.826e5			2.8	NO		bb		0.000
2	FUNCTION3	PFK	35.78	2.257e5			4.8	YES		bb		0.000
3	FUNCTION3	PFK	32.72	1.050e4			1.2	NO		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.29	1.216e5					4.5	YES		dd		
2	FUNCTION4 PFK	39.17	4.771e4					5.4	YES		dd		
3	FUNCTION4 PFK	39.11	8.497e4					6.5	YES		dd		
4	FUNCTION4 PFK	39.07	6.984e4					7.8	YES		dd		
5	FUNCTION4 PFK	39.02	9.902e4					8.2	YES		dd		
6	FUNCTION4 PFK	38.97	1.061e5					9.1	YES		dd		
7	FUNCTION4 PFK	38.89	1.723e5					10.8	YES		dd		
8	FUNCTION4 PFK	38.83	7.413e4					10.5	YES		dd		
9	FUNCTION4 PFK	38.78	2.048e5					13.0	YES		dd		
10	FUNCTION4 PFK	38.72	1.319e5					14.0	YES		dd		
11	FUNCTION4 PFK	38.64	2.753e5					14.7	YES		dd		
12	FUNCTION4 PFK	38.58	2.311e5					16.4	YES		dd		
13	FUNCTION4 PFK	38.13	2.044e6					23.4	YES		dd		
14	FUNCTION4 PFK	38.05	2.402e5					25.0	YES		dd		
15	FUNCTION4 PFK	37.99	3.046e5					25.0	YES		dd		
16	FUNCTION4 PFK	37.93	1.403e6					26.2	YES		bd		
17	FUNCTION4 PFK	41.35	7.025e3					1.2	NO		bd		
18	FUNCTION4 PFK	41.30	1.114e4					1.4	NO		db		
19	FUNCTION4 PFK	41.23	9.847e3					1.4	NO		bd		
20	FUNCTION4 PFK	40.85	2.130e3					0.9	NO		bb		
21	FUNCTION4 PFK	40.73	2.560e3					0.6	NO		bb		
22	FUNCTION4 PFK	40.46	4.057e3					0.8	NO		db		
23	FUNCTION4 PFK	40.40	4.356e3					0.8	NO		bd		
24	FUNCTION4 PFK	40.28	4.446e3					0.9	NO		bb		
25	FUNCTION4 PFK	40.15	4.014e3					0.7	NO		bb		
26	FUNCTION4 PFK	39.98	2.569e3					0.7	NO		bb		
27	FUNCTION4 PFK	39.88	1.213e4					1.5	NO		bb		
28	FUNCTION4 PFK	39.76	1.235e4					1.6	NO		db		
29	FUNCTION4 PFK	39.70	8.703e3					1.3	NO		dd		
30	FUNCTION4 PFK	39.66	2.490e4					2.9	NO		bd		
31	FUNCTION4 PFK	39.46	2.295e4					1.8	NO		db		
32	FUNCTION4 PFK	39.37	4.112e4					3.6	YES		dd		
33	FUNCTION4 PFK	42.61	1.695e4					1.4	NO		db		
34	FUNCTION4 PFK	42.56	1.515e4					1.6	NO		dd		
35	FUNCTION4 PFK	42.50	1.274e4					1.4	NO		bd		
36	FUNCTION4 PFK	42.19	1.449e3					0.5	NO		db		
37	FUNCTION4 PFK	42.18	2.305e3					0.3	NO		bd		

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PFK4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION4 PFK	42.11	7.231e3					1.1	NO		bb		
FUNCTION4 PFK	41.82	1.083e4					0.9	NO		bb		
FUNCTION4 PFK	41.66	5.717e3					1.0	NO		db		
FUNCTION4 PFK	41.63	2.233e3					0.6	NO		bd		
FUNCTION4 PFK	41.40	5.670e3					1.0	NO		db		

PFK5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

ETHERS1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 HXCD...	25.68	3.506e3					138.6	YES		bb		0.000
FUNCTION1 HXCD...	25.39	2.925e2					13.7	YES		bb		0.000
FUNCTION1 HXCD...	24.80	7.524e1					6.4	YES		bb		0.000

ETHERS2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 HPCD...	21.87	2.239e2					13.3	YES		bb		0.000
FUNCTION1 HPCD...	20.72	1.514e2					7.1	YES		bb		0.000

ETHERS3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION2 HPCD...	29.71	2.184e2					7.2	YES		db		0.000
FUNCTION2 HPCD...	29.67	1.091e2					5.8	YES		bd		0.000
FUNCTION2 HPCD...	29.40	3.246e2					14.0	YES		bb		0.000

ETHERS4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION3 OCDPE	34.44	1.141e2					4.0	YES		bb		0.000

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.02	1.023e2					4.1	YES		bb		0.000
2	FUNCTION4 NCDPE	38.21	2.588e3					102.6	YES		bb		0.000

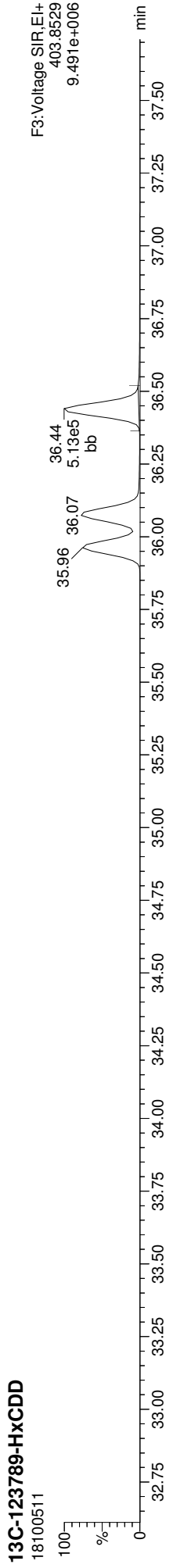
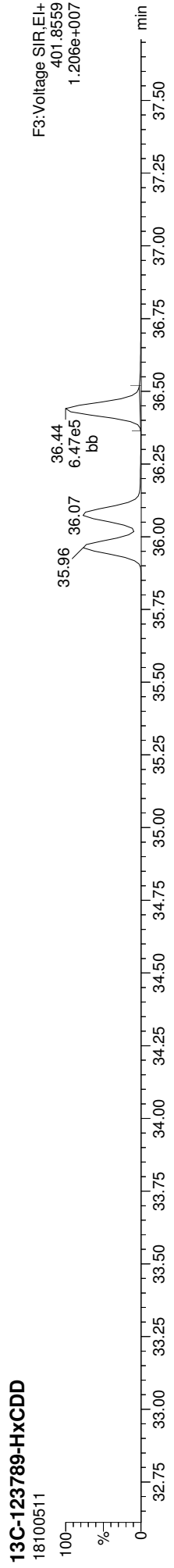
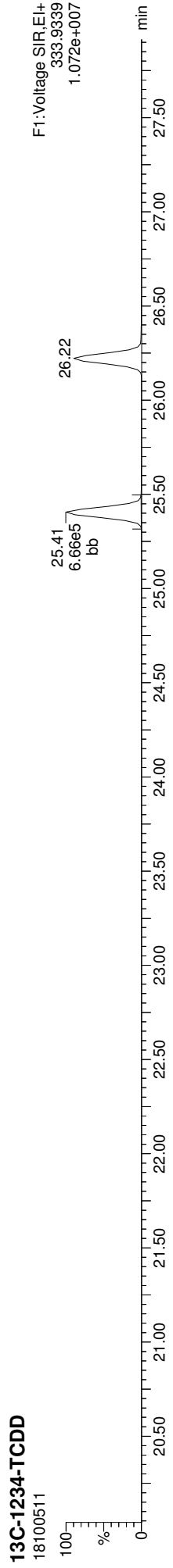
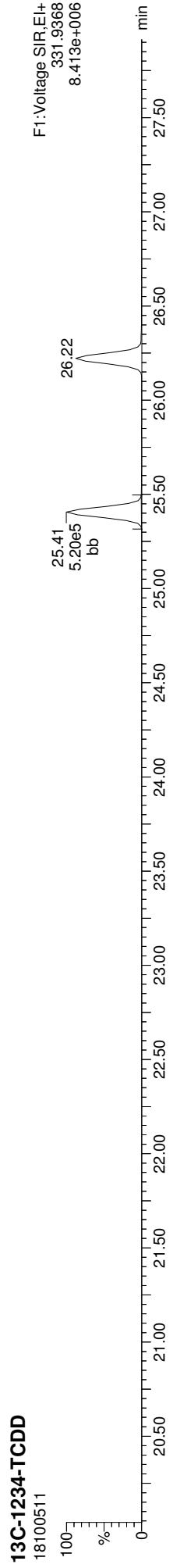
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Quantify Sample Report MassLynx MassLynx V4.1 SCN909
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Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

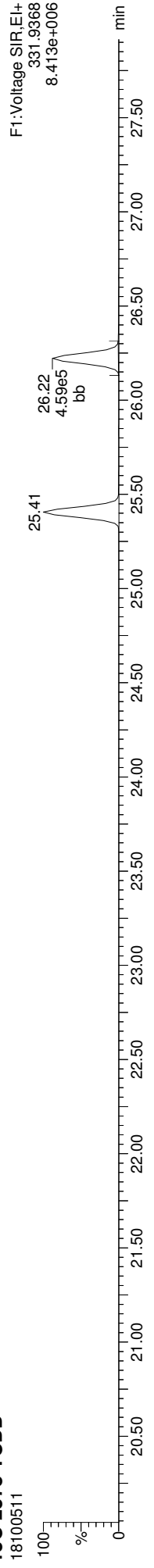
ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK



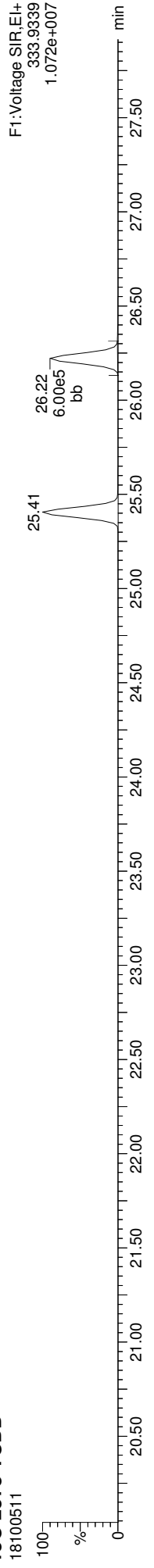
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

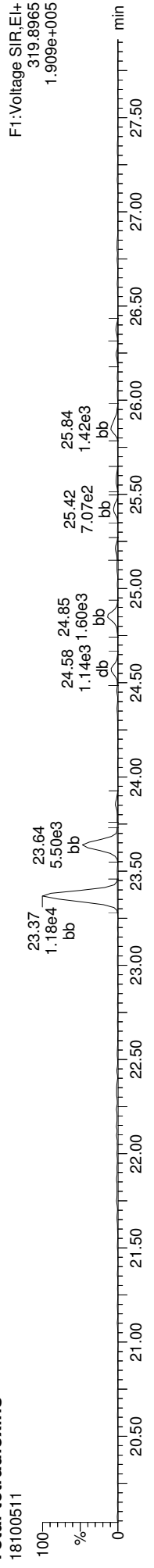
13C-2378-TCDD



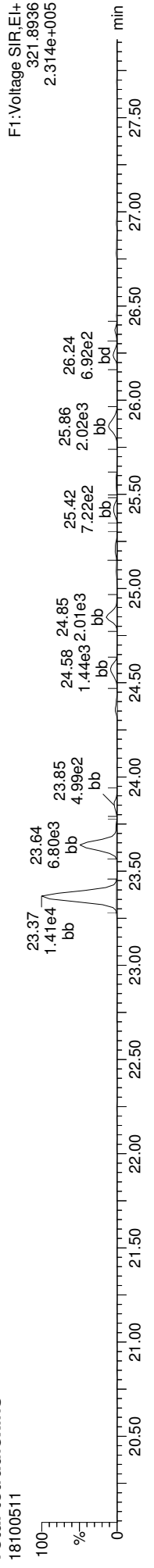
13C-2378-TCDD



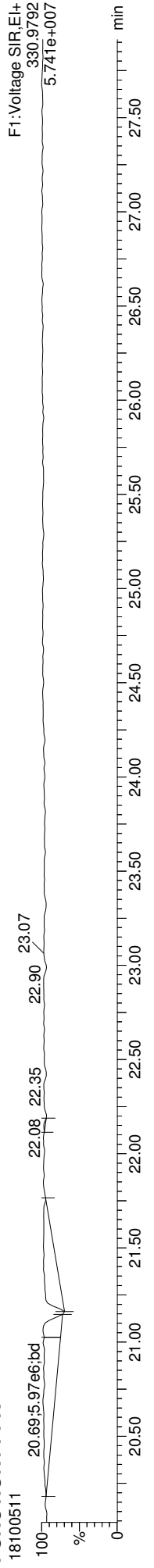
Total-tetradioxins



Total-tetradioxins



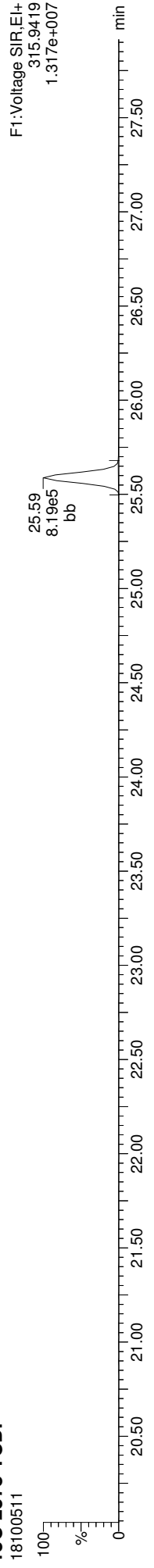
FUNCTION1 PFK



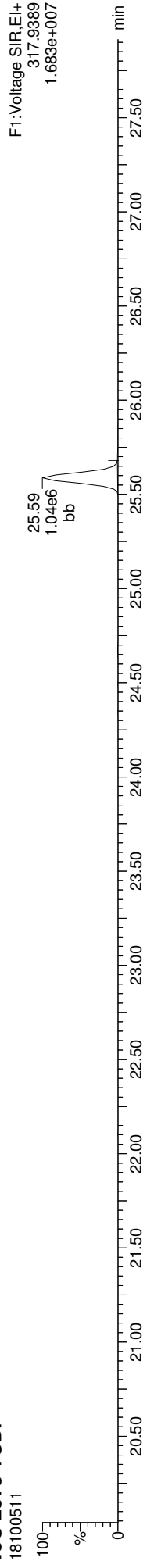
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

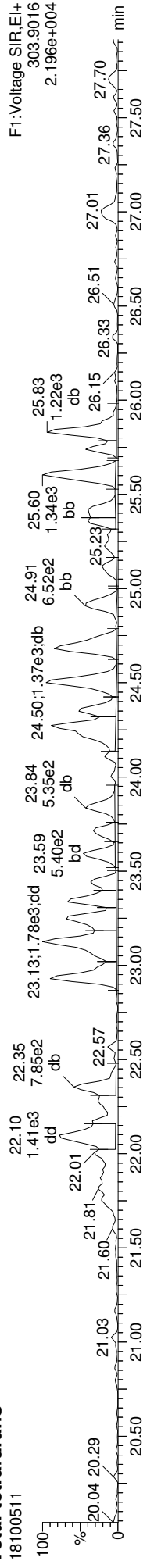
13C-2378-TCDF



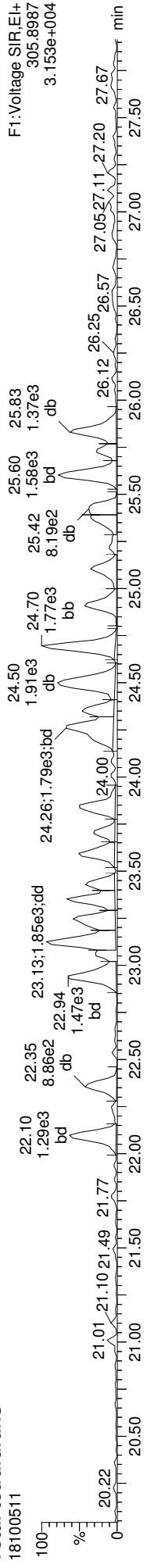
13C-2378-TCDF



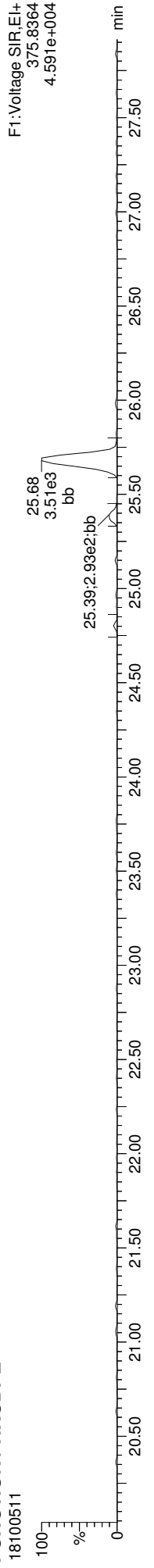
Total-tetrafurans



Total-tetrafurans



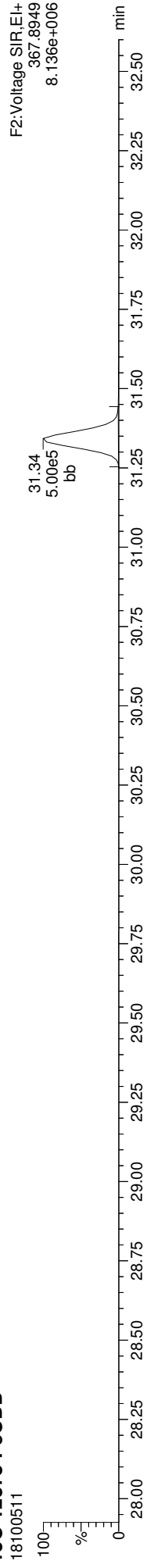
FUNCTION1 HXCDFE



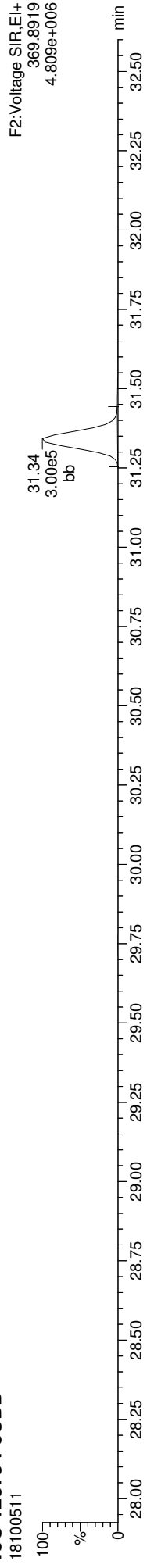
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

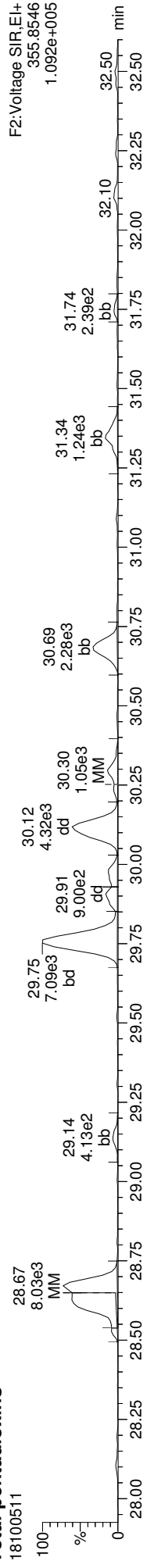
13C-12378-PeCDD



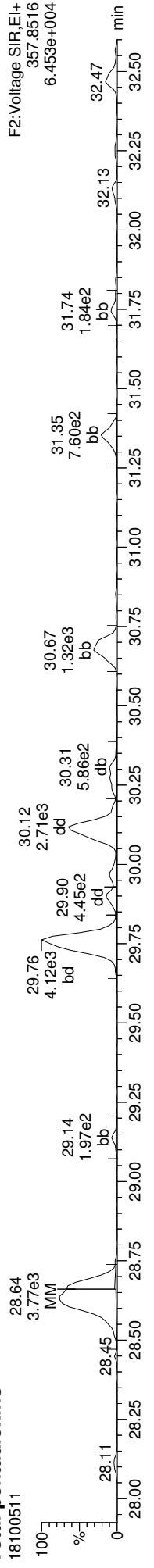
13C-12378-PeCDD



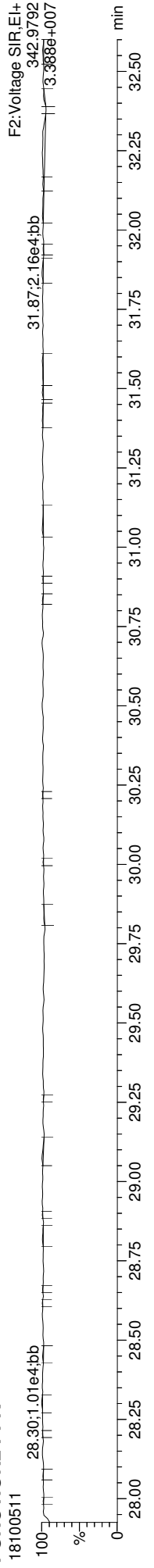
Total-pentadioxins



Total-pentadioxins



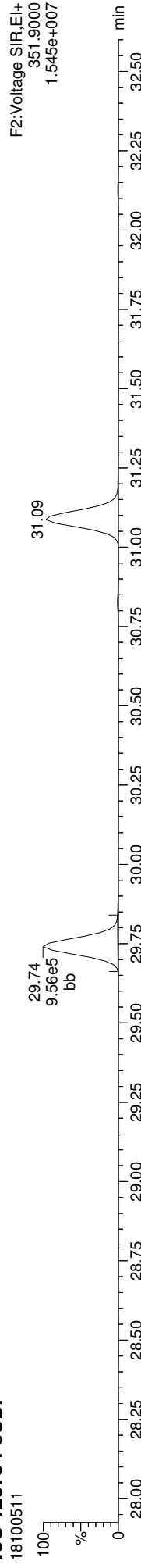
FUNCTION2 PFK



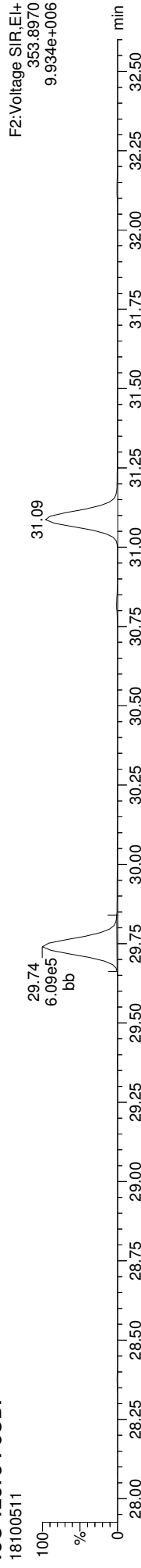
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

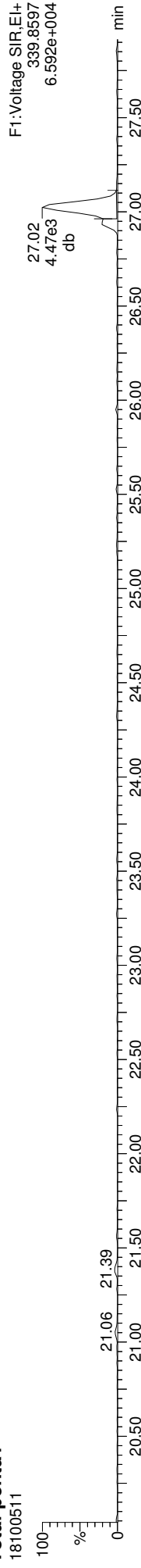
13C-12378-PeCDF



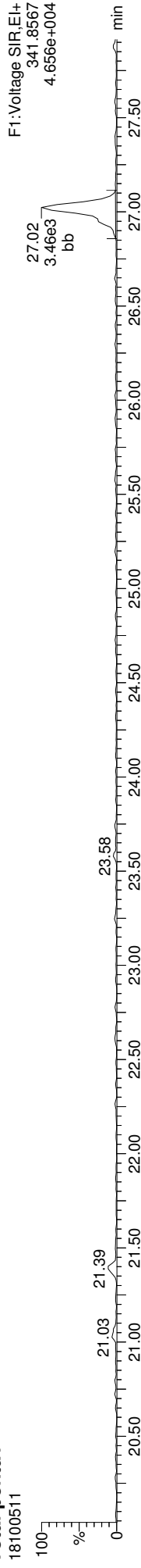
13C-12378-PeCDF



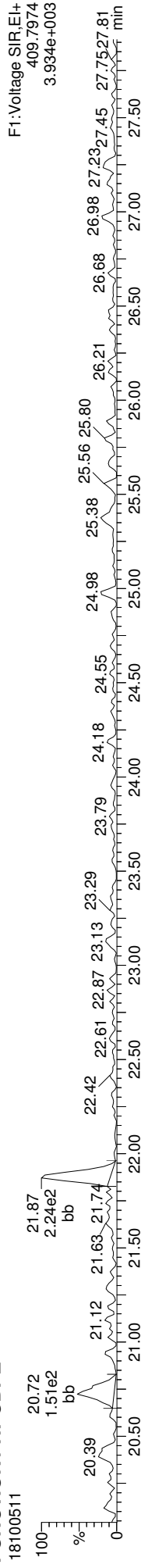
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

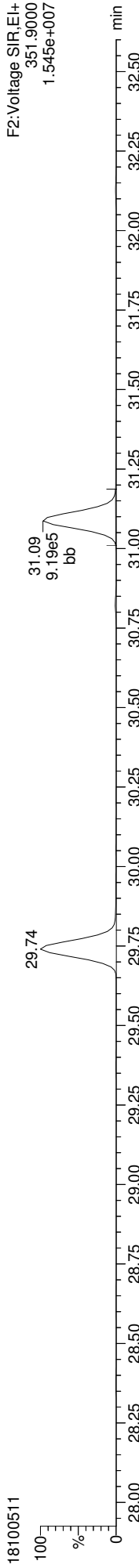


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

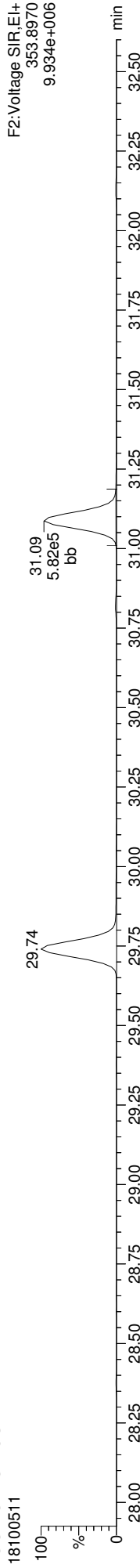
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

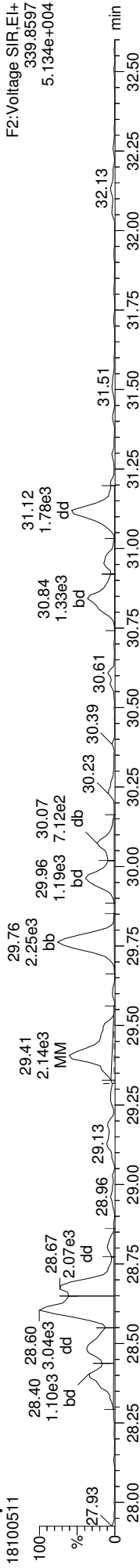
13C-23478-PeCDF



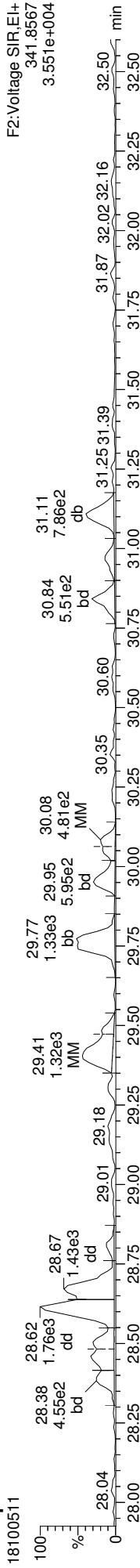
13C-23478-PeCDF



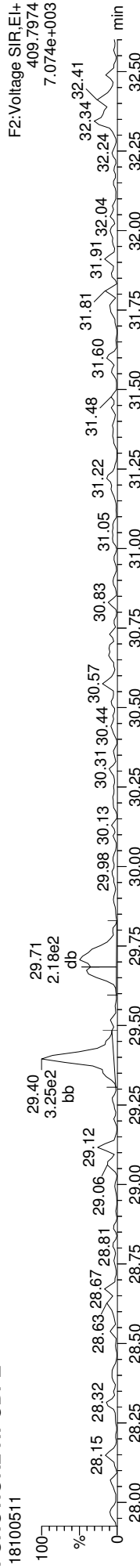
Total-pentafurans



Total-pentafurans



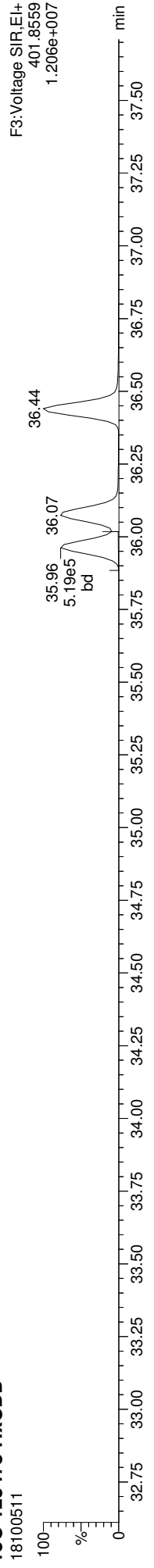
FUNCTION2 HPCDPE



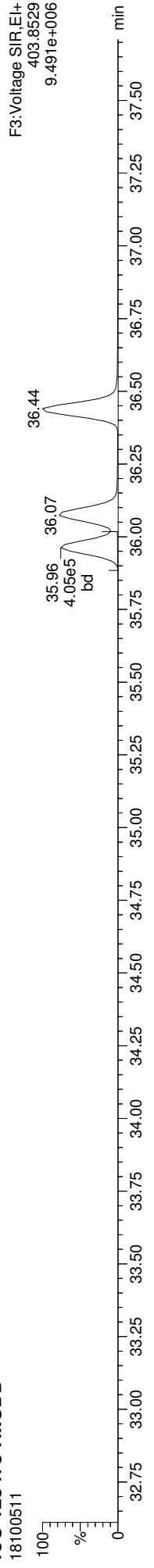
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

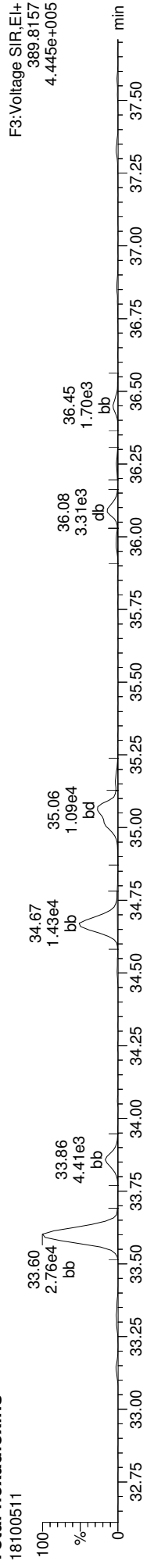
13C-123478-HxCDD



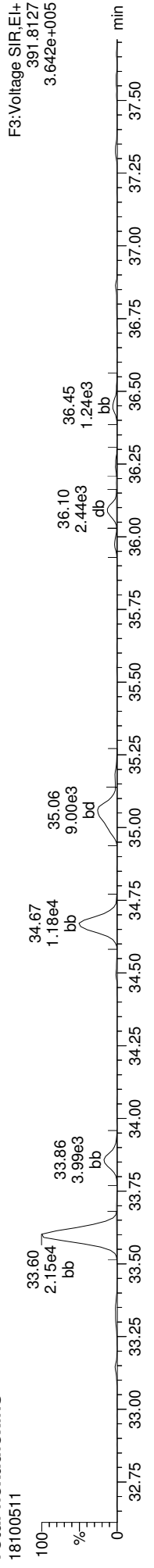
13C-123478-HxCDD



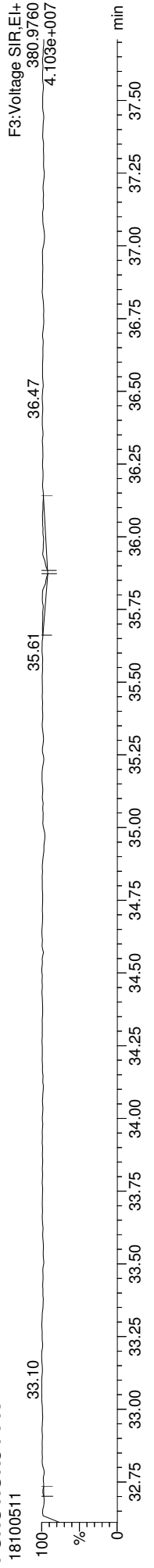
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

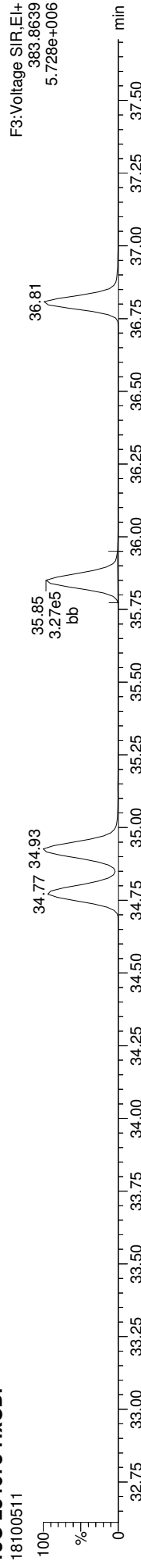


Quantify Sample Report
MassLynx MassLynx V4.1 SCN909

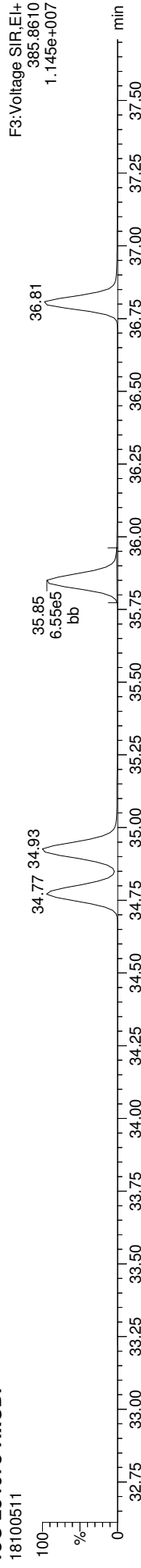
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

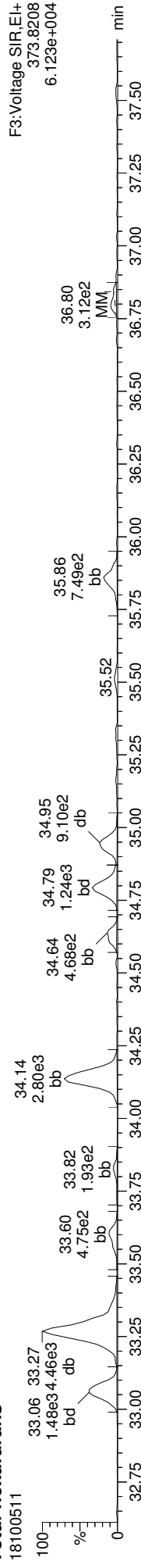
13C-234678-HxCDF



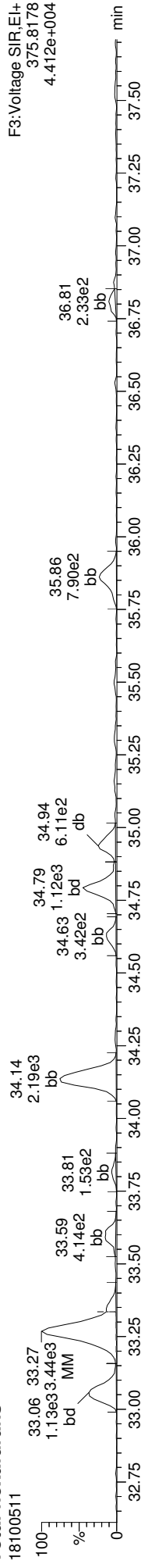
13C-234678-HxCDF



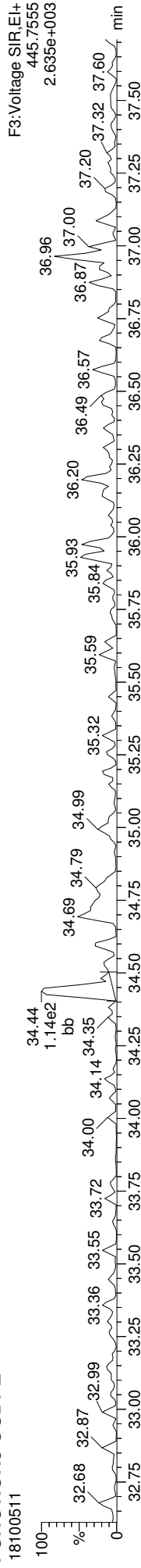
Total-hexafurans



Total-hexafurans



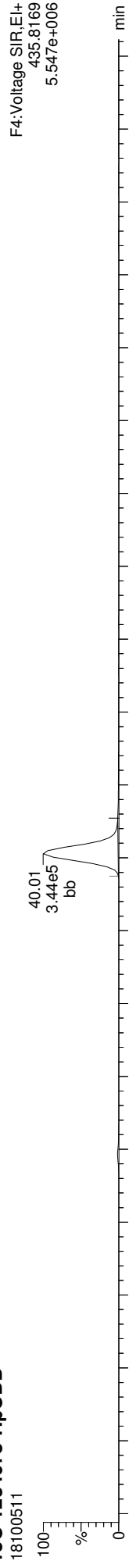
FUNCTION3 OCDPE



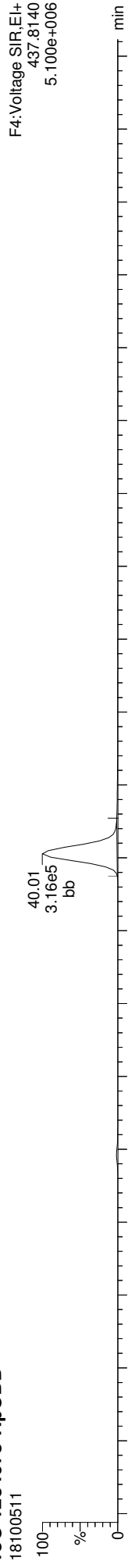
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

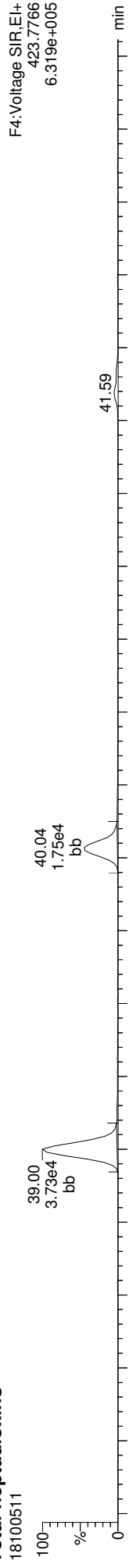
13C-1234678-HpCDD



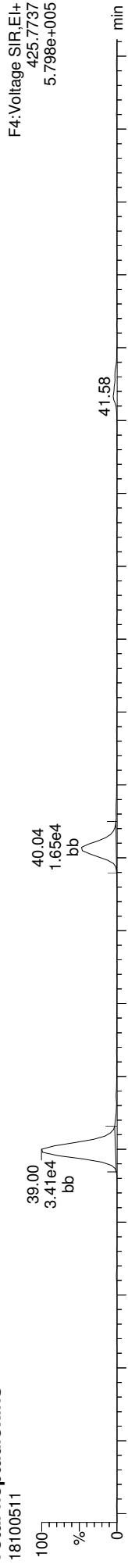
13C-1234678-HpCDD



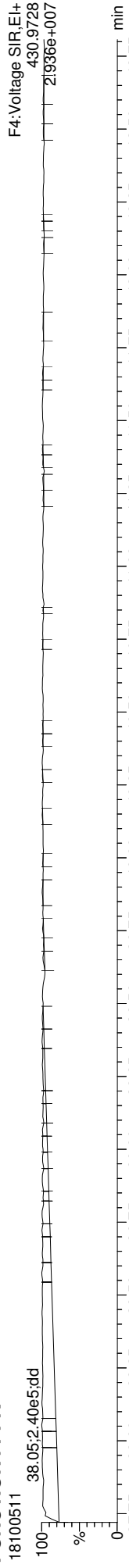
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

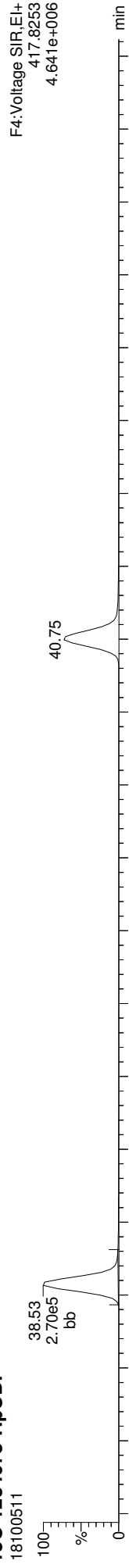


Quantify Sample Report

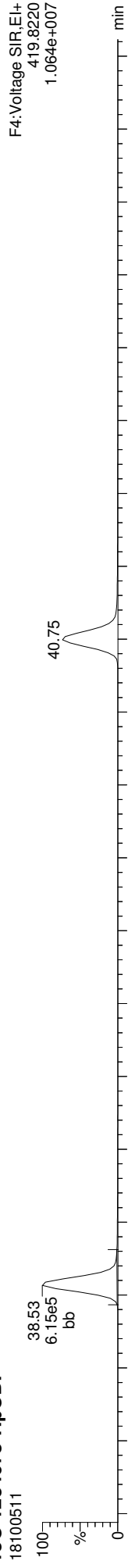
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

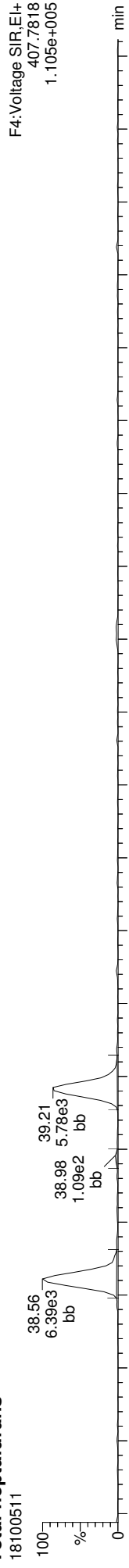
13C-1234678-HpCDF



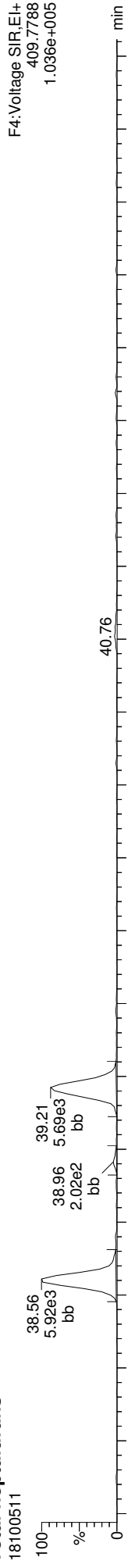
13C-1234678-HpCDF



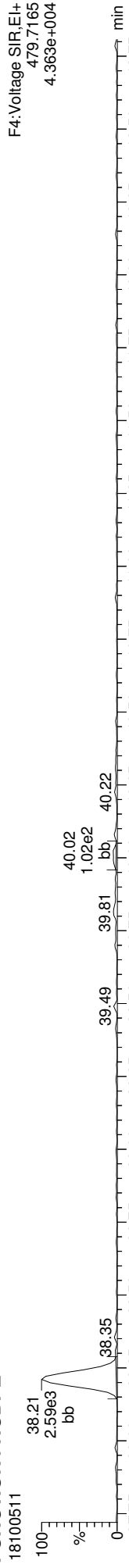
Total-heptafurans



Total-heptafurans



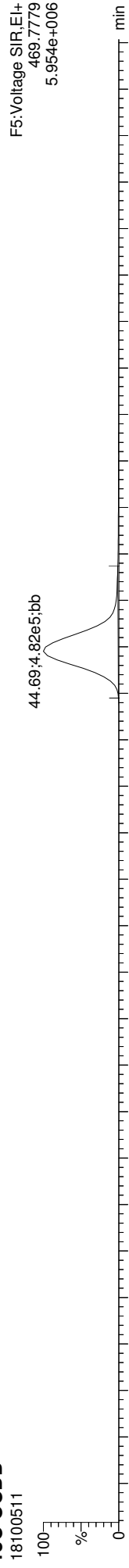
FUNCTION4 NCDPE



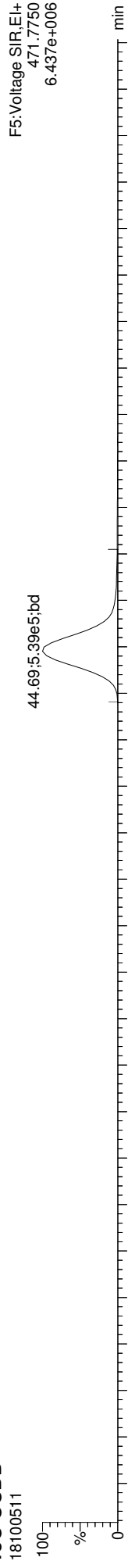
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

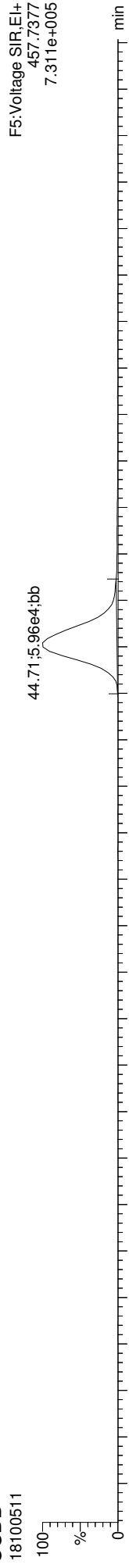
13C-OCDD



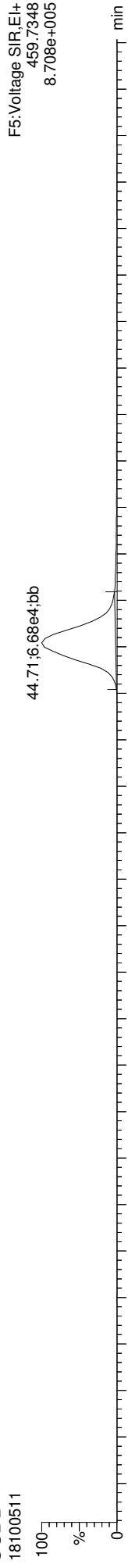
13C-OCDD



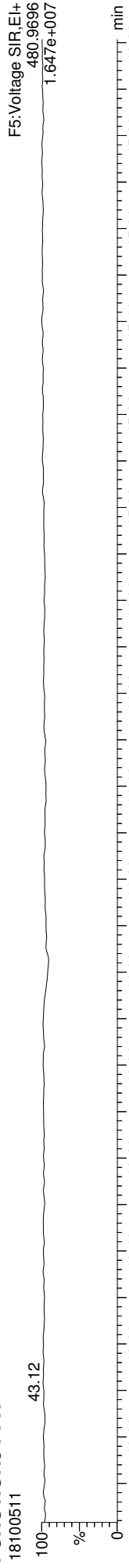
OCDD



OCDD



FUNCTION5 PFK

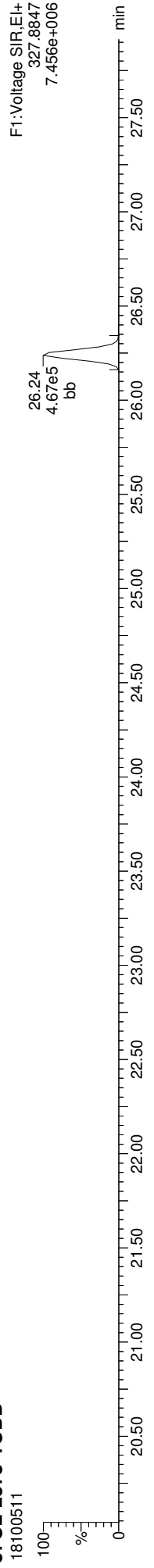


Quantify Sample Report

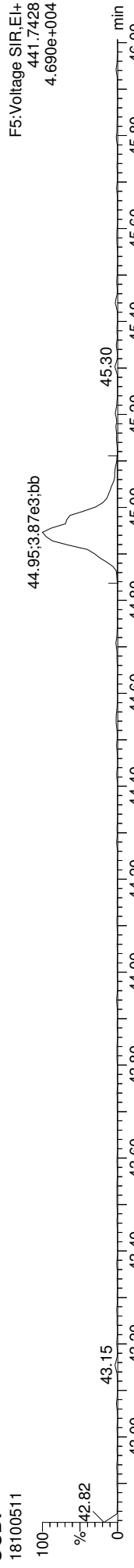
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:10 Pacific Daylight Time

ID: 1810285-03, Name: 18100511, Date: 05-Oct-2018, Time: 17:43:24, Conditions: AUTOSPEC01, User: PK

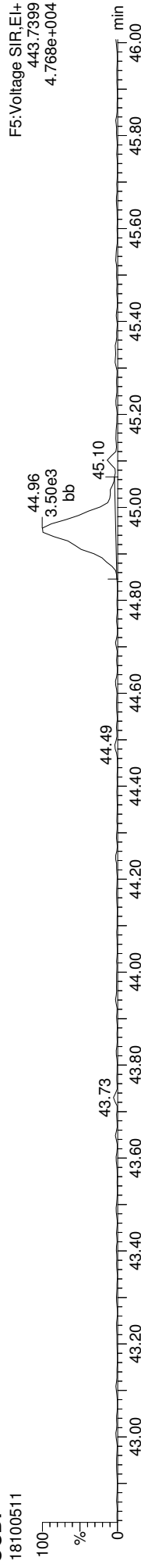
37CL-2378-TCDD



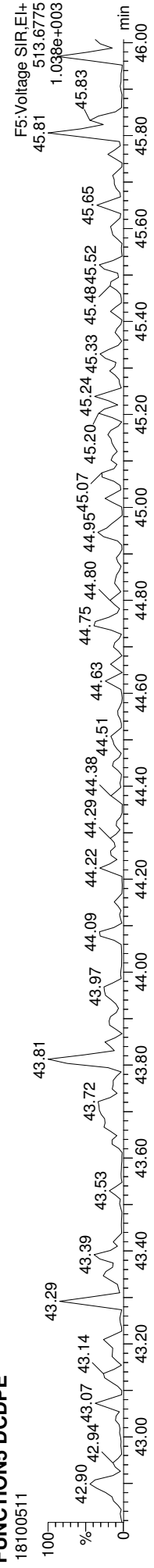
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 18I0285
Client: Anchor QEA, LLC
Project: Port Gamble - OMMP LTM
Matrix: Sediment Laboratory ID: 18I0285-04 File ID: 18100512
Sampled: 09/18/18 11:00 Prepared: 10/02/18 16:00 Analyzed: 10/05/18 18:31
% Solids: 76.51 Preparation: EPA 1613 Initial/Final: 13.12 g Wet / 20 uL
Result Basis: Dry Sequence: SGJ0093 Calibration: BH00060
Batch: BGI0793 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.531	0.655-0.886		0.996	0.380	ng/kg	EMPC, J
1746-01-6	2,3,7,8-TCDD	1	0.206	0.655-0.886		0.996	0.152	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.134	1.318-1.783		0.996	0.172	ng/kg	EMPC, J, B
57117-31-4	2,3,4,7,8-PeCDF	1	3.209	1.318-1.783		0.996	0.127	ng/kg	EMPC, J
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.108	0.996	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.047	1.054-1.426		0.996	0.146	ng/kg	EMPC, J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.585	1.054-1.426		0.996	0.109	ng/kg	EMPC, J
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.646	1.054-1.426		0.996	0.113	ng/kg	EMPC, J
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.271	1.054-1.426		0.996	0.099	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.360	1.054-1.426		0.996	0.123	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.074	1.054-1.426		0.996	0.659	ng/kg	J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.323	1.054-1.426		0.996	0.319	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.143	0.893-1.208		0.996	2.45	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.234	0.893-1.208		0.996	0.162	ng/kg	EMPC, J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.037	0.893-1.208		2.49	38.6	ng/kg	
39001-02-0	OCDF	1	0.965	0.757-1.024		1.99	11.3	ng/kg	
3268-87-9	OCDD	1	0.887	0.757-1.024		9.96	515	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.996	5.08	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.996	9.03	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.996	1.84	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.996	4.30	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.996	2.56	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.996	18.1	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.996	9.00	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.996	259	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.960
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.01



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>18I0285-04</u>
Sampled:	<u>09/18/18 11:00</u>	Prepared:	<u>10/02/18 16:00</u>
Solids Wt%:	<u>76.51</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SGJ0093</u>
Batch:	<u>BGI0793</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>18I00512</u>
		Analyzed:	<u>10/05/18 18:31</u>
		Initial/Final:	<u>13.12 g / 20 uL</u>
		Calibration:	<u>BH00060</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.798	0.655-0.886		88.8	24 - 169 %	
13C12-2,3,7,8-TCDD		0.773	0.655-0.886		79.3	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.582	1.318-1.783		85.5	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.599	1.318-1.783		84.3	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.673	1.318-1.783		77.1	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.499	0.434-0.587		81.7	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.496	0.434-0.587		81.7	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.499	0.434-0.587		81.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.507	0.434-0.587		81.8	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.269	1.054-1.426		80.4	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.293	1.054-1.426		81.9	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.441	0.374-0.506		78.7	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.434	0.374-0.506		82.5	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.058	0.893-1.208		78.3	23 - 140 %	
13C12-OCDD		0.913	0.757-1.024		58.1	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			95.4	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820CIH.cdb 21 Aug 2018 11:13:54

ID: 1810285-04, **Name:** 18100512, **Date:** 05-Oct-2018, **Time:** 18:31:56, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.604	1.001	9.597e2	1.806e3	0.834	0.531	0.770	912	1029	1.43e4	2.94e4	15.7	YES	YES	bd	bd	0.191
12378-PeCDF	29.759	1.001	5.509e2	4.860e2	0.852	1.134	1.550	654	1153	9.23e3	6.79e3	14.1	YES	YES	bb	bb	0.086
23478-PeCDF	31.094	1.000	6.325e2	1.971e2	0.944	3.209	1.550	654	1153	1.08e4	4.15e3	16.5	YES	YES	bb	bd	0.064
123478-HxCDF	34.790	1.001	3.329e2	3.179e2	0.963	1.047	1.240	394	326	5.16e3	4.61e3	13.1	YES	YES	bd	bd	0.074
234678-HxCDF	35.870	1.001	1.940e2	3.004e2	0.991	0.646	1.240	394	326	4.93e3	3.52e3	12.5	YES	YES	db	bb	0.057
123678-HxCDF	34.946	1.001	3.005e2	1.896e2	0.917	1.585	1.240	394	326	4.39e3	2.89e3	11.1	YES	YES	db	db	0.055
123789-HxCDF	36.783	1.000	2.174e2	1.710e2	0.938	1.271	1.240	394	326	2.90e3	2.61e3	7.4	YES	NO	bb	bb	0.050
1234678-HpCDF	38.541	1.000	5.673e3	4.964e3	1.119	1.143	1.050	350	558	8.98e4	8.69e4	256.4	YES	NO	bb	bb	1.232
1234789-HpCDF	40.757	1.000	3.351e2	2.716e2	1.162	1.234	1.050	350	558	6.56e3	4.16e3	18.7	YES	YES	bb	bb	0.081
OCDF	44.935	1.006	1.315e4	1.363e4	1.145	0.965	0.890	361	627	1.68e5	1.62e5	464.7	YES	NO	bb	bb	5.688
2378-TCDD	26.208	1.000	1.261e2	6.128e2	0.982	0.206	0.770	650	413	2.80e3	8.68e3	4.3	YES	YES	bd	bd	0.076
12378-PeCDD					1.029		1.550	1031	1142								
123478-HxCDD	35.970	1.000	2.633e2	1.937e2	0.921	1.360	1.240	1263	1607	4.75e3	4.18e3	3.8	NO	NO	bd	bd	0.062
123678-HxCDD	36.092	1.001	1.307e3	1.217e3	0.904	1.074	1.240	1263	1607	2.19e4	2.05e4	17.3	YES	NO	db	db	0.331
123789-HxCDD	36.449	1.010	6.895e2	5.213e2	0.918	1.323	1.240	1263	1607	1.29e4	8.54e3	10.2	YES	NO	bb	bb	0.160
1234678-HpCDD	40.022	1.000	5.914e4	5.702e4	1.046	1.037	1.050	2090	1476	9.88e5	9.41e5	472.9	YES	NO	bb	bb	19.384
OCDD	44.697	1.000	4.915e5	5.543e5	0.984	0.887	0.890	1266	2040	6.28e6	7.08e6	4964.1	YES	NO	bb	bb	258.551
13C-2378-TCDF	25.573	1.007	7.711e5	9.668e5	1.847	0.798	0.770	3655	1661	1.19e7	1.51e7	3263.1	YES	NO	bb	bb	88.803
13C-12378-PeCDF	29.737	1.171	8.651e5	5.470e5	1.558	1.582	1.550	2067	1782	1.37e7	8.71e6	6617.7	YES	NO	bb	bb	85.544
13C-23478-PeCDF	31.083	1.224	8.485e5	5.308e5	1.544	1.599	1.550	2067	1782	1.35e7	8.43e6	6512.5	YES	NO	bb	bb	84.318
13C-123478-HxCDF	34.768	0.954	3.059e5	6.131e5	1.152	0.499	0.510	1304	2415	4.75e6	9.45e6	3646.1	YES	NO	bd	bd	81.725
13C-123678-HxCDF	34.912	0.958	3.240e5	6.533e5	1.225	0.496	0.510	1304	2415	5.02e6	9.95e6	3849.5	YES	NO	db	db	81.739
13C-234678-HxCDF	35.848	0.984	2.925e5	5.867e5	1.104	0.499	0.510	1304	2415	4.80e6	9.41e6	3685.0	YES	NO	bb	bb	81.632
13C-123789-HxCDF	36.794	1.010	2.806e5	5.539e5	1.046	0.507	0.510	1304	2415	5.26e6	1.04e7	4034.4	YES	NO	bb	bb	81.784
13C-1234678-HpCDF	38.530	1.057	2.361e5	5.353e5	1.004	0.441	0.440	1630	1760	4.05e6	9.10e6	2484.4	YES	NO	bb	bb	78.692
13C-1234789-HpCDF	40.745	1.118	1.946e5	4.488e5	0.799	0.434	0.440	1630	1760	2.95e6	6.75e6	1810.2	YES	NO	bb	bb	82.550
13C-1234-TCDD	25.392	0.000	4.621e5	5.977e5	1.000	0.773	0.770	1432	716	7.39e6	9.50e6	5160.2	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.208	1.032	4.288e5	5.549e5	1.171	0.773	0.770	1432	716	6.80e6	8.80e6	4749.2	YES	NO	bb	bb	79.265
13C-12378-PeCDD	31.328	1.234	4.528e5	2.707e5	0.886	1.673	1.550	854	646	7.30e6	4.42e6	8552.0	YES	NO	bb	bb	77.052
13C-123478-HxCDD	35.959	0.987	4.508e5	3.525e5	1.027	1.269	1.240	1962	1134	7.85e6	6.13e6	4000.1	YES	NO	bd	bd	80.428
13C-123678-HxCDD	36.070	0.990	4.756e5	3.679e5	1.055	1.293	1.240	1962	1134	8.21e6	6.36e6	4182.6	YES	NO	db	db	81.925
13C-1234678-HpCDD	40.011	1.098	2.944e5	2.782e5	0.749	1.058	1.050	1198	1184	4.73e6	4.29e6	3950.2	YES	NO	bb	bd	78.342
13C-OCDD	44.679	1.226	3.925e5	4.299e5	0.725	0.913	0.890	1143	1319	4.93e6	5.46e6	4316.0	YES	NO	bb	bb	116.266
13C-123789-HxCDD	36.438	0.000	5.441e5	4.318e5	1.000	1.260	1.240	1962	1134	1.02e7	7.94e6	5179.1	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.238	1.033	4.533e5		1.121			428		6.94e6		16199.8	YES		bb		38.172

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
1368-TCDF	22.083	0.863	7.285e2	9.342e2	1.020	0.780	0.770	912	1029	1.19e4	1.69e4	13.0	YES	NO	bb	bb	0.094	
1289-TCDF					0.818		0.770	912	1029									
13468-PECDF	27.009	0.908	2.093e3	1.560e3	1.163	1.342	1.550	395	449	2.69e4	2.21e4	68.1	YES	NO	bb	bb	0.222	
12389-PECDF					0.912		1.550	654	1153									
123468-HXCDF	33.054	0.951	6.086e2	3.908e2	1.051	1.557	1.240	394	326	8.42e3	6.21e3	21.4	YES	YES	bb	bb	0.103	
1368-TCDD	23.352	0.891	8.556e3	1.114e4	1.026	0.768	0.770	650	413	1.32e5	1.81e5	203.2	YES	NO	bb	bb	1.951	
1289-TCDD					0.938		0.770	650	413									
12479-PECDD	28.668	0.915	3.750e3	8.931e2	1.807	4.199	1.550	1031	1142	3.30e4	2.15e4	32.0	YES	YES	bb	db	0.355	
12389-PECDD					1.326		1.550	1031	1142									
124679-HXCDD	33.844	0.941	1.330e4	1.146e4	1.031	1.160	1.240	1263	1607	2.08e5	1.74e5	164.4	YES	NO	bb	bb	2.979	
1234679-HPCDD	38.986	0.974	3.974e5	3.801e5	1.228	1.046	1.050	2090	1476	6.91e6	6.72e6	3304.3	YES	NO	bb	bb	110.581	
Total-tetrafurans			1.716e4		0.891			912		2.55e5							2.551	
Total-penta1			2.093e3		0.903			395		2.69e4							0.222	
Total-pentafurans			5.806e3		0.972			654		9.79e4							0.701	
Total-hexafurans			6.477e3		1.141			394		9.85e4							1.284	
Total-heptafurans			1.937e4		0.989			350		3.25e5							4.519	
Total-Furans			6.405e4		0.982			912		9.71e5							14.965	
Total-tetraoxins			1.969e4		1.387			650		3.07e5							4.533	
Total-pentadioxins			1.484e4		0.944			1031		2.09e5							2.159	
Total-hexadioxins			3.922e4		1.137			1263		5.61e5							9.060	
Total-heptadioxins			4.567e5		1.088			2090		7.90e6							130.017	
Total-Dioxins			1.022e6					650		1.53e7							404.319	
Total-TEQ			1.086e6					650		1.62e7							419.284	
FUNCTION1 PFK			3.497e6					505212		1.23e7							0.000	
FUNCTION2 PFK			5.782e6					265953		1.78e7							0.000	
FUNCTION3 PFK			1.917e6					296621		3.55e6							0.000	
FUNCTION4 PFK			1.808e5					204337		6.74e6								
FUNCTION5 PFK			0.000e0					143331		0.00e0								
FUNCTION1 HXGD...			3.638e3					226		5.11e4							0.000	
FUNCTION1 HPCD...			3.892e2					453		5.54e3							0.000	
FUNCTION2 HPCD...			0.000e0					400		0.00e0								
FUNCTION3 OCDPE			1.437e2					332		3.02e3							0.000	
FUNCTION4 NCDPE			1.443e3					426		2.44e4							0.000	
FUNCTION5 DCDPE			0.000e0					249		0.00e0							0.000	

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

TF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-tetraturans	24.35	5.998e2	8.543e2	0.891	0.70	0.77	10.6	YES	NO	dd	dd	0.094
Total-tetraturans	24.27	6.558e2	1.678e3	0.891	0.39	0.77	14.6	YES	YES	dd	dd	0.151
Total-tetraturans	23.82	1.047e3	1.030e3	0.891	1.02	0.77	20.0	YES	YES	db	db	0.134
Total-tetraturans	23.68	3.878e2	4.453e2	0.891	0.87	0.77	6.5	YES	NO	dd	dd	0.054
Total-tetraturans	23.58	7.062e2	9.619e2	0.891	0.73	0.77	13.6	YES	NO	bd	bd	0.108
Total-tetraturans	23.43	5.807e2	9.090e2	0.891	0.64	0.77	10.0	YES	YES	db	db	0.096
Total-tetraturans	23.35	7.355e2	9.444e2	0.891	0.78	0.77	10.3	YES	NO	dd	dd	0.109
Total-tetraturans	23.23	1.054e3	1.137e3	0.891	0.93	0.77	13.8	YES	YES	dd	dd	0.142
Total-tetraturans	23.11	1.838e3	2.454e3	0.891	0.75	0.77	24.9	YES	NO	dd	dd	0.277
Total-tetraturans	22.91	1.151e3	1.392e3	0.891	0.83	0.77	15.5	YES	NO	bd	bd	0.164
Total-tetraturans	22.35	4.050e2	5.442e2	0.891	0.74	0.77	5.4	YES	NO	bb	bb	0.061
1368-TCDF	22.08	7.285e2	9.342e2	1.020	0.78	0.77	13.0	YES	NO	bb	bb	0.094
Total-tetraturans	26.99	4.019e2	1.433e2	0.891	2.80	0.77	6.3	NO	YES	bb	bb	0.035
Total-tetraturans	25.83	1.147e3	1.387e3	0.891	0.83	0.77	20.3	YES	NO	db	db	0.164
Total-tetraturans	25.72	2.046e2	4.804e2	0.891	0.43	0.77	4.5	YES	YES	dd	dd	0.044
2378-TCDF	25.60	9.597e2	1.806e3	0.834	0.53	0.77	15.7	YES	YES	bd	bd	0.191
Total-tetraturans	25.35	5.962e2	1.235e3	0.891	0.48	0.77	8.3	YES	YES	dd	db	0.118
Total-tetraturans	25.23	1.036e2	9.052e1	0.891	1.14	0.77	2.1	NO	YES	dd	bd	0.013
Total-tetraturans	25.09	4.265e2	3.580e2	0.891	1.19	0.77	7.4	YES	YES	dd	bb	0.051
Total-tetraturans	24.91	5.335e2	5.774e2	0.891	0.92	0.77	8.9	YES	YES	bd	bb	0.072
Total-tetraturans	24.68	1.442e3	1.436e3	0.891	1.00	0.77	26.1	YES	YES	db	bb	0.186
Total-tetraturans	24.49	1.452e3	1.561e3	0.891	0.93	0.77	21.8	YES	YES	dd	db	0.195

PP

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
13468-PECDF	27.01	2.093e3	1.560e3	1.163	1.34	1.55	68.1	YES	NO	bb	bb	0.222

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

PF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-pentafurans	29.97	4.702e2	3.249e2	0.903	1.45	1.55	11.6	YES	NO	bd	bd	0.063
2 12378-PeCDF	29.76	5.509e2	4.860e2	0.852	1.13	1.55	14.1	YES	YES	bb	bb	0.086
3 Total-pentafurans	29.40	9.508e2	1.834e2	0.903	5.18	1.55	17.3	NO	YES	dd	bb	0.090
4 Total-pentafurans	28.68	1.171e3	4.408e2	0.903	2.66	1.55	31.3	YES	YES	dd	db	0.128
5 Total-pentafurans	28.61	1.176e3	7.165e2	0.903	1.64	1.55	31.8	YES	NO	dd	dd	0.150
6 Total-pentafurans	28.50	1.599e2	2.132e2	0.903	0.75	1.55	7.0	YES	YES	dd	bd	0.030
7 23478-PeCDF	31.09	6.325e2	1.971e2	0.944	3.21	1.55	16.5	YES	YES	bb	bd	0.064
8 Total-pentafurans	30.85	4.693e2	2.263e2	0.903	2.07	1.55	14.4	YES	YES	bd	bb	0.055
9 Total-pentafurans	30.07	2.254e2	2.148e2	0.903	1.05	1.55	5.8	YES	YES	db	db	0.035

HF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 123789-HxCDF	36.78	2.174e2	1.710e2	0.938	1.27	1.24	7.4	YES	NO	bb	bb	0.050
2 234678-HxCDF	35.87	1.940e2	3.004e2	0.991	0.65	1.24	12.5	YES	YES	db	bb	0.057
3 123678-HxCDF	34.95	3.005e2	1.896e2	0.917	1.58	1.24	11.1	YES	YES	db	db	0.055
4 123478-HxCDF	34.79	3.329e2	3.179e2	0.963	1.05	1.24	13.1	YES	YES	bd	bd	0.074
5 Total-hexafurans	34.12	2.859e3	2.014e3	0.972	1.42	1.24	115.8	YES	NO	bb	bb	0.555
6 Total-hexafurans	33.27	1.965e3	1.462e3	0.972	1.34	1.24	68.9	YES	NO	bb	bb	0.391
7 123468-HxCDF	33.05	6.086e2	3.908e2	1.051	1.56	1.24	21.4	YES	YES	bb	bb	0.103

HPF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 1234789-HpCDF	40.76	3.351e2	2.716e2	1.162	1.23	1.05	18.7	YES	YES	bb	bb	0.081
2 Total-heptafurans	39.20	1.322e4	1.238e4	1.141	1.07	1.05	646.9	YES	NO	bb	bd	3.173
3 Total-heptafurans	38.96	1.434e2	1.226e2	1.141	1.17	1.05	6.4	YES	NO	bb	bd	0.033
4 1234678-HpCDF	38.54	5.673e3	4.964e3	1.119	1.14	1.05	256.4	YES	NO	bb	bb	1.232

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HIF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetraturans	24.35	5.998e2	8.543e2	0.891	0.70	10.6	YES	NO	dd	dd	0.094
2	Total-tetraturans	24.27	6.558e2	1.678e3	0.891	0.39	14.6	YES	YES	dd	dd	0.151
3	Total-tetraturans	23.82	1.047e3	1.030e3	0.891	1.02	20.0	YES	YES	db	db	0.134
4	Total-tetraturans	23.68	3.878e2	4.453e2	0.891	0.87	6.5	YES	NO	dd	dd	0.054
5	Total-tetraturans	23.58	7.062e2	9.619e2	0.891	0.73	13.6	YES	NO	bd	bd	0.108
6	Total-tetraturans	23.43	5.807e2	9.090e2	0.891	0.64	10.0	YES	YES	db	db	0.096
7	Total-tetraturans	23.35	7.355e2	9.444e2	0.891	0.78	10.3	YES	NO	dd	dd	0.109
8	Total-tetraturans	23.23	1.054e3	1.137e3	0.891	0.93	13.8	YES	YES	dd	dd	0.142
9	Total-tetraturans	23.11	1.838e3	2.454e3	0.891	0.75	24.9	YES	NO	dd	dd	0.277
10	Total-tetraturans	22.91	1.151e3	1.392e3	0.891	0.83	15.5	YES	NO	bd	bd	0.164
11	Total-tetraturans	22.35	4.050e2	5.442e2	0.891	0.74	5.4	YES	NO	bb	bb	0.061
12	Total-tetraturans	22.08	7.285e2	9.342e2	1.020	0.78	13.0	YES	NO	bb	bb	0.094
13	Total-tetraturans	26.99	4.019e2	1.433e2	0.891	2.80	6.3	NO	YES	bb	bb	0.035
14	Total-tetraturans	25.83	1.147e3	1.387e3	0.891	0.83	20.3	YES	NO	db	db	0.164
15	Total-tetraturans	25.72	2.046e2	4.804e2	0.891	0.43	4.5	YES	YES	dd	dd	0.044
16	2378-TCDF	25.60	9.597e2	1.806e3	0.834	0.53	15.7	YES	YES	bd	bd	0.191
17	Total-tetraturans	25.35	5.962e2	1.235e3	0.891	0.48	8.3	YES	YES	dd	dd	0.118
18	Total-tetraturans	25.23	1.036e2	9.052e1	0.891	1.14	2.1	NO	YES	dd	dd	0.013
19	Total-tetraturans	25.09	4.265e2	3.580e2	0.891	1.19	7.4	YES	YES	dd	bb	0.051
20	Total-tetraturans	24.91	5.335e2	5.774e2	0.891	0.92	8.9	YES	YES	bd	bb	0.072
21	Total-tetraturans	24.68	1.442e3	1.436e3	0.891	1.00	26.1	YES	YES	db	bb	0.186
22	Total-tetraturans	24.49	1.452e3	1.561e3	0.891	0.93	21.8	YES	YES	dd	db	0.195
23	Total-pentaturans	29.97	4.702e2	3.249e2	0.903	1.45	11.6	YES	NO	bd	bd	0.063
24	12378-PeCDF	29.76	5.509e2	4.860e2	0.852	1.13	14.1	YES	YES	bb	bb	0.086
25	Total-pentaturans	29.40	9.508e2	1.834e2	0.903	5.18	17.3	NO	YES	dd	bb	0.090
26	Total-pentaturans	28.68	1.171e3	4.408e2	0.903	2.66	31.3	YES	YES	dd	db	0.128
27	Total-pentaturans	28.61	1.176e3	7.165e2	0.903	1.64	31.8	YES	NO	dd	dd	0.150
28	Total-pentaturans	28.50	1.599e2	2.132e2	0.903	0.75	7.0	YES	YES	dd	bd	0.030
29	23478-PeCDF	31.09	6.325e2	1.971e2	0.944	3.21	16.5	YES	YES	bb	bd	0.064
30	Total-pentaturans	30.85	4.693e2	2.263e2	0.903	2.07	14.4	YES	YES	bd	bb	0.055
31	Total-pentaturans	30.07	2.254e2	2.148e2	0.903	1.05	5.8	YES	YES	db	db	0.035
32	123789-HxCDF	36.78	2.174e2	1.710e2	0.938	1.27	7.4	YES	NO	bb	bb	0.050
33	234678-HxCDF	35.87	1.940e2	3.004e2	0.991	0.65	12.5	YES	YES	db	bb	0.057
34	123678-HxCDF	34.95	3.005e2	1.896e2	0.917	1.58	11.1	YES	YES	db	db	0.055
35	123478-HxCDF	34.79	3.329e2	3.179e2	0.963	1.05	13.1	YES	YES	bd	bd	0.074
36	Total-hexaturans	34.12	2.859e3	2.014e3	0.972	1.42	115.8	YES	NO	bb	bb	0.555
37	Total-hexaturans	33.27	1.965e3	1.462e3	0.972	1.34	68.9	YES	NO	bb	bb	0.391

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	123468-HXCDF	33.05	6.086e2	3.908e2	1.051	1.24	21.4	YES	YES	bb	bb	0.103
39	1234789-HpCDF	40.76	3.351e2	2.716e2	1.162	1.05	18.7	YES	YES	bb	bb	0.081
40	Total-heptafurans	39.20	1.322e4	1.238e4	1.141	1.05	646.9	YES	NO	bb	bd	3.173
41	Total-heptafurans	38.96	1.434e2	1.226e2	1.141	1.05	6.4	YES	NO	bb	bd	0.033
42	1234678-HpCDF	38.54	5.673e3	4.964e3	1.119	1.05	256.4	YES	NO	bb	bb	1.232
43	OCDF	44.93	1.315e4	1.363e4	1.145	0.89	464.7	YES	NO	bb	bb	5.688
44	13468-PECDF	27.01	2.093e3	1.560e3	1.163	1.55	68.1	YES	NO	bb	bb	0.222

TD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.21	1.261e2	6.128e2	0.982	0.77	4.3	YES	YES	bd	bd	0.076
2	Total-tetradoxins	25.85	1.202e3	1.339e3	0.982	0.77	24.6	YES	YES	bb	bb	0.263
3	Total-tetradoxins	25.42	9.361e2	9.909e2	0.982	0.77	23.3	YES	YES	bd	bb	0.199
4	Total-tetradoxins	25.21	2.771e2	3.163e2	0.982	0.77	7.2	YES	NO	db	db	0.061
5	Total-tetradoxins	25.10	1.041e2	7.441e1	0.982	0.77	3.4	YES	YES	bd	bd	0.018
6	Total-tetradoxins	24.85	9.811e2	1.464e3	0.982	0.77	28.1	YES	NO	bb	bb	0.253
7	Total-tetradoxins	24.56	7.166e2	1.031e3	0.982	0.77	17.9	YES	NO	bb	bb	0.181
8	Total-tetradoxins	24.35	2.197e2	1.376e2	0.982	0.77	4.3	YES	YES	bb	bb	0.037
9	Total-tetradoxins	23.82	1.883e2	9.817e1	0.982	0.77	3.9	YES	YES	bb	dd	0.030
10	Total-tetradoxins	23.62	6.123e3	7.458e3	0.982	0.77	145.2	YES	NO	bb	bd	1.406
11	1368-TCDD	23.35	8.556e3	1.114e4	1.026	0.77	203.2	YES	NO	bb	bb	1.951
12	Total-tetradoxins	26.37	2.603e2	2.839e2	0.982	0.77	7.0	YES	YES	dd	db	0.056

PD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadoxins	30.78	1.268e2	8.036e1	1.387	1.55	2.4	NO	NO	db	db	0.021
2	Total-pentadoxins	30.68	1.640e3	1.067e3	1.387	1.55	24.1	YES	NO	bd	bd	0.270
3	Total-pentadoxins	30.32	1.787e2	1.738e2	1.387	1.55	3.8	NO	YES	db	db	0.035
4	Total-pentadoxins	30.09	3.322e3	2.124e3	1.387	1.55	48.9	YES	NO	dd	bd	0.543
5	Total-pentadoxins	29.96	5.324e2	1.895e2	1.387	1.55	8.8	YES	YES	dd	db	0.072
6	Total-pentadoxins	29.88	4.791e2	2.875e2	1.387	1.55	8.8	YES	NO	dd	dd	0.076
7	Total-pentadoxins	29.75	4.370e3	2.859e3	1.387	1.55	66.4	YES	NO	bd	bd	0.720
8	Total-pentadoxins	29.14	4.388e2	2.342e2	1.387	1.55	7.0	YES	YES	bb	bb	0.067
9	12479-PECDD	28.67	3.750e3	8.931e2	1.807	1.55	32.0	YES	YES	bb	db	0.355

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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HD

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	123789-HxCDD	36.45	6.895e2	5.213e2	0.918	1.32	1.24	10.2	YES	NO	bb	bb	0.160
	Total-hexadioxins	36.25	6.952e2	6.670e2	0.944	1.04	1.24	11.0	YES	YES	bb	bb	0.175
	123678-HxCDD	36.09	1.307e3	1.217e3	0.904	1.07	1.24	17.3	YES	NO	db	db	0.331
	123478-HxCDD	35.97	2.633e2	1.937e2	0.921	1.36	1.24	3.8	NO	NO	bd	bd	0.062
	Total-hexadioxins	35.16	3.802e3	3.159e3	0.944	1.20	1.24	48.3	YES	NO	db	db	0.894
	Total-hexadioxins	35.05	9.566e3	7.482e3	0.944	1.28	1.24	66.6	YES	NO	dd	bd	2.191
	Total-hexadioxins	34.66	7.010e3	5.793e3	0.944	1.21	1.24	88.6	YES	NO	bb	bb	1.645
	124679-HxCDD	33.84	1.330e4	1.146e4	1.031	1.16	1.24	164.4	YES	NO	bb	bb	2.979
	Total-hexadioxins	33.59	2.585e3	2.268e3	0.944	1.14	1.24	33.8	YES	NO	bb	bb	0.624

HPD

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	1234678-HpCDD	40.02	5.914e4	5.702e4	1.046	1.04	1.05	472.9	YES	NO	bb	bb	19.384
	Total-heptadioxins	39.33	1.233e2	2.163e2	1.137	0.57	1.05	2.2	NO	YES	bb	bb	0.052
	1234679-HPCDD	38.99	3.974e5	3.801e5	1.228	1.05	1.05	3304.3	YES	NO	bb	bb	110.581

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Dioxins,TD,PD,HD,HPCDD,OCDD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.21	1.261e2	6.128e2	0.982	0.21	0.77	4.3	YES	bd	bd	0.076
2	Total-tetradoxins	25.85	1.202e3	1.339e3	0.982	0.90	0.77	24.6	YES	bb	bb	0.263
3	Total-tetradoxins	25.42	9.361e2	9.909e2	0.982	0.94	0.77	23.3	YES	bd	bb	0.199
4	Total-tetradoxins	25.21	2.771e2	3.163e2	0.982	0.88	0.77	7.2	YES	NO	db	0.061
5	Total-tetradoxins	25.10	1.041e2	7.441e1	0.982	1.40	0.77	3.4	YES	bd	bd	0.018
6	Total-tetradoxins	24.85	9.811e2	1.464e3	0.982	0.67	0.77	28.1	YES	NO	bb	0.253
7	Total-tetradoxins	24.56	7.166e2	1.031e3	0.982	0.69	0.77	17.9	YES	NO	bb	0.181
8	Total-tetradoxins	24.35	2.197e2	1.376e2	0.982	1.60	0.77	4.3	YES	YES	bb	0.037
9	Total-tetradoxins	23.82	1.883e2	9.817e1	0.982	1.92	0.77	3.9	YES	YES	bb	0.030
10	Total-tetradoxins	23.62	6.123e3	7.458e3	0.982	0.82	0.77	145.2	YES	NO	bb	1.406
11	1368-TCDD	23.35	8.556e3	1.114e4	1.026	0.77	0.77	203.2	YES	NO	bb	1.951
12	Total-tetradoxins	26.37	2.603e2	2.839e2	0.982	0.92	0.77	7.0	YES	YES	dd	0.056
13	Total-pentadoxins	30.78	1.268e2	8.036e1	1.387	1.58	1.55	2.4	NO	NO	db	0.021
14	Total-pentadoxins	30.68	1.640e3	1.067e3	1.387	1.54	1.55	24.1	YES	NO	bd	0.270
15	Total-pentadoxins	30.32	1.787e2	1.738e2	1.387	1.03	1.55	3.8	NO	YES	db	0.035
16	Total-pentadoxins	30.09	3.322e3	2.124e3	1.387	1.56	1.55	48.9	YES	NO	dd	0.543
17	Total-pentadoxins	29.96	5.324e2	1.895e2	1.387	2.81	1.55	8.8	YES	YES	dd	0.072
18	Total-pentadoxins	29.88	4.791e2	2.875e2	1.387	1.67	1.55	8.8	YES	NO	dd	0.076
19	Total-pentadoxins	29.75	4.370e3	2.859e3	1.387	1.53	1.55	66.4	YES	NO	bd	0.720
20	Total-pentadoxins	29.14	4.388e2	2.342e2	1.387	1.87	1.55	7.0	YES	YES	bb	0.067
21	12479-PECDD	28.67	3.750e3	8.931e2	1.807	4.20	1.55	32.0	YES	YES	bb	0.355
22	123789-HxCDD	36.45	6.895e2	5.213e2	0.918	1.32	1.24	10.2	YES	NO	bb	0.160
23	Total-hexadoxins	36.25	6.952e2	6.670e2	0.944	1.04	1.24	11.0	YES	YES	bb	0.175
24	123678-HxCDD	36.09	1.307e3	1.217e3	0.904	1.07	1.24	17.3	YES	NO	db	0.331
25	123478-HxCDD	35.97	2.633e2	1.937e2	0.921	1.36	1.24	3.8	NO	NO	bd	0.062
26	Total-hexadoxins	35.16	3.802e3	3.159e3	0.944	1.20	1.24	48.3	YES	NO	db	0.894
27	Total-hexadoxins	35.05	9.566e3	7.482e3	0.944	1.28	1.24	66.6	YES	NO	dd	2.191
28	Total-hexadoxins	34.66	7.010e3	5.793e3	0.944	1.21	1.24	88.6	YES	NO	bb	1.645
29	124679-HxCDD	33.84	1.330e4	1.146e4	1.031	1.16	1.24	164.4	YES	NO	bb	2.979
30	Total-hexadoxins	33.59	2.585e3	2.268e3	0.944	1.14	1.24	33.8	YES	NO	bb	0.624
31	1234678-HpCDD	40.02	5.914e4	5.702e4	1.046	1.04	1.05	472.9	YES	NO	bb	19.384
32	Total-heptadoxins	39.33	1.233e2	2.163e2	1.137	0.57	1.05	2.2	NO	YES	bb	0.052
33	1234679-HPCDD	38.99	3.974e5	3.801e5	1.228	1.05	1.05	3304.3	YES	NO	bb	110.581
34	OCDD	44.70	4.915e5	5.543e5	0.984	0.89	0.89	4964.1	YES	NO	bb	258.551

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	24.35	5.998e2	8.543e2	0.891	0.70	0.77	10.6	YES	NO	dd	dd	0.094
2 Total-tetraturans	24.27	6.558e2	1.678e3	0.891	0.39	0.77	14.6	YES	YES	dd	dd	0.151
3 Total-tetraturans	23.82	1.047e3	1.030e3	0.891	1.02	0.77	20.0	YES	YES	db	db	0.134
4 Total-tetraturans	23.68	3.878e2	4.453e2	0.891	0.87	0.77	6.5	YES	NO	dd	dd	0.054
5 Total-tetraturans	23.58	7.062e2	9.619e2	0.891	0.73	0.77	13.6	YES	NO	bd	bd	0.108
6 Total-tetraturans	23.43	5.807e2	9.090e2	0.891	0.64	0.77	10.0	YES	YES	db	db	0.096
7 Total-tetraturans	23.35	7.355e2	9.444e2	0.891	0.78	0.77	10.3	YES	NO	dd	dd	0.109
8 Total-tetraturans	23.23	1.054e3	1.137e3	0.891	0.93	0.77	13.8	YES	YES	dd	dd	0.142
9 Total-tetraturans	23.11	1.838e3	2.454e3	0.891	0.75	0.77	24.9	YES	NO	dd	dd	0.277
10 Total-tetraturans	22.91	1.151e3	1.392e3	0.891	0.83	0.77	15.5	YES	NO	bd	bd	0.164
11 Total-tetraturans	22.35	4.050e2	5.442e2	0.891	0.74	0.77	5.4	YES	NO	bb	bb	0.061
12 1368-TCDF	22.08	7.285e2	9.342e2	1.020	0.78	0.77	13.0	YES	NO	bb	bb	0.094
13 Total-tetraturans	26.99	4.019e2	1.433e2	0.891	2.80	0.77	6.3	NO	YES	bb	bb	0.035
14 Total-tetraturans	25.83	1.147e3	1.387e3	0.891	0.83	0.77	20.3	YES	NO	db	db	0.164
15 Total-tetraturans	25.72	2.046e2	4.804e2	0.891	0.43	0.77	4.5	YES	YES	dd	dd	0.044
16 2378-TCDF	25.60	9.597e2	1.806e3	0.834	0.53	0.77	15.7	YES	YES	bd	bd	0.191
17 Total-tetraturans	25.35	5.962e2	1.235e3	0.891	0.48	0.77	8.3	YES	YES	dd	dd	0.118
18 Total-tetraturans	25.23	1.036e2	9.052e1	0.891	1.14	0.77	2.1	NO	YES	dd	dd	0.013
19 Total-tetraturans	25.09	4.265e2	3.580e2	0.891	1.19	0.77	7.4	YES	YES	dd	bb	0.051
20 Total-tetraturans	24.91	5.335e2	5.774e2	0.891	0.92	0.77	8.9	YES	YES	bd	bb	0.072
21 Total-tetraturans	24.68	1.442e3	1.436e3	0.891	1.00	0.77	26.1	YES	YES	db	bb	0.186
22 Total-tetraturans	24.49	1.452e3	1.561e3	0.891	0.93	0.77	21.8	YES	YES	dd	db	0.195
23 Total-pentaturans	29.97	4.702e2	3.249e2	0.903	1.45	1.55	11.6	YES	NO	bd	bd	0.063
24 12378-PeCDF	29.76	5.509e2	4.860e2	0.852	1.13	1.55	14.1	YES	YES	bb	bb	0.086
25 Total-pentaturans	29.40	9.508e2	1.834e2	0.903	5.18	1.55	17.3	NO	YES	dd	bb	0.090
26 Total-pentaturans	28.68	1.171e3	4.408e2	0.903	2.66	1.55	31.3	YES	YES	dd	db	0.128
27 Total-pentaturans	28.61	1.176e3	7.165e2	0.903	1.64	1.55	31.8	YES	NO	dd	dd	0.150
28 Total-pentaturans	28.50	1.599e2	2.132e2	0.903	0.75	1.55	7.0	YES	YES	dd	bd	0.030
29 23478-PeCDF	31.09	6.325e2	1.971e2	0.944	3.21	1.55	16.5	YES	YES	bb	bd	0.064
30 Total-pentaturans	30.85	4.693e2	2.263e2	0.903	2.07	1.55	14.4	YES	YES	bd	bb	0.055
31 Total-pentaturans	30.07	2.254e2	2.148e2	0.903	1.05	1.55	5.8	YES	YES	db	db	0.035
32 123789-HxCDF	36.78	2.174e2	1.710e2	0.938	1.27	1.24	7.4	YES	NO	bb	bb	0.050
33 234678-HxCDF	35.87	1.940e2	3.004e2	0.991	0.65	1.24	12.5	YES	YES	db	bb	0.057
34 123678-HxCDF	34.95	3.005e2	1.896e2	0.917	1.58	1.24	11.1	YES	YES	db	db	0.055
35 123478-HxCDF	34.79	3.329e2	3.179e2	0.963	1.05	1.24	13.1	YES	YES	bd	bd	0.074
36 Total-hexaturans	34.12	2.859e3	2.014e3	0.972	1.42	1.24	115.8	YES	NO	bb	bb	0.555
37 Total-hexaturans	33.27	1.965e3	1.462e3	0.972	1.34	1.24	68.9	YES	NO	bb	bb	0.391

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	123468-HXCDF	33.05	6.086e2	3.908e2	1.051	1.24	21.4	YES	YES	bb	bb	0.103
39	1234789-HpCDF	40.76	3.351e2	2.716e2	1.162	1.05	18.7	YES	YES	bb	bb	0.081
40	Total-heptafurans	39.20	1.322e4	1.238e4	1.141	1.05	646.9	YES	NO	bb	bd	3.173
41	Total-heptafurans	38.96	1.434e2	1.226e2	1.141	1.05	6.4	YES	NO	bb	bd	0.033
42	1234678-HpCDF	38.54	5.673e3	4.964e3	1.119	1.05	256.4	YES	NO	bb	bb	1.232
43	OCDF	44.93	1.315e4	1.363e4	1.145	0.89	464.7	YES	NO	bb	bb	5.688
44	13468-PECDF	27.01	2.093e3	1.560e3	1.163	1.55	68.1	YES	NO	bb	bb	0.222
45	2378-TCDD	26.21	1.261e2	6.128e2	0.982	0.77	4.3	YES	YES	bd	bd	0.076
46	Total-tetradoxins	25.85	1.202e3	1.339e3	0.982	0.90	24.6	YES	YES	bb	bb	0.263
47	Total-tetradoxins	25.42	9.361e2	9.909e2	0.982	0.77	23.3	YES	YES	bd	bb	0.199
48	Total-tetradoxins	25.21	2.771e2	3.163e2	0.982	0.77	7.2	YES	NO	db	db	0.061
49	Total-tetradoxins	25.10	1.041e2	7.441e1	0.982	0.77	3.4	YES	YES	bd	bd	0.018
50	Total-tetradoxins	24.85	9.811e2	1.464e3	0.982	0.67	28.1	YES	NO	bb	bb	0.253
51	Total-tetradoxins	24.56	7.166e2	1.031e3	0.982	0.69	17.9	YES	NO	bb	bb	0.181
52	Total-tetradoxins	24.35	2.197e2	1.376e2	0.982	0.77	4.3	YES	YES	bb	bb	0.037
53	Total-tetradoxins	23.82	1.883e2	9.817e1	0.982	0.77	3.9	YES	YES	bb	dd	0.030
54	Total-tetradoxins	23.62	6.123e3	7.458e3	0.982	0.82	145.2	YES	NO	bb	bd	1.406
55	1368-TCDD	23.35	8.556e3	1.114e4	1.026	0.77	203.2	YES	NO	bb	bb	1.951
56	Total-tetradoxins	26.37	2.603e2	2.839e2	0.982	0.92	7.0	YES	YES	dd	db	0.056
57	Total-pentadoxins	30.78	1.268e2	8.036e1	1.387	1.55	2.4	NO	NO	db	db	0.021
58	Total-pentadoxins	30.68	1.640e3	1.067e3	1.387	1.55	24.1	YES	NO	bd	bd	0.270
59	Total-pentadoxins	30.32	1.787e2	1.738e2	1.387	1.03	3.8	NO	YES	db	db	0.035
60	Total-pentadoxins	30.09	3.322e3	2.124e3	1.387	1.55	48.9	YES	NO	dd	bd	0.543
61	Total-pentadoxins	29.96	5.324e2	1.895e2	1.387	1.55	8.8	YES	YES	dd	db	0.072
62	Total-pentadoxins	29.88	4.791e2	2.875e2	1.387	1.67	8.8	YES	NO	dd	dd	0.076
63	Total-pentadoxins	29.75	4.370e3	2.859e3	1.387	1.53	66.4	YES	NO	bd	bd	0.720
64	Total-pentadoxins	29.14	4.388e2	2.342e2	1.387	1.87	7.0	YES	YES	bb	bb	0.067
65	12479-PECDD	28.67	3.750e3	8.931e2	1.807	4.20	32.0	YES	YES	bb	db	0.355
66	123789-HxCDD	36.45	6.895e2	5.213e2	0.918	1.32	10.2	YES	NO	bb	bb	0.160
67	Total-hexadoxins	36.25	6.952e2	6.670e2	0.944	1.04	11.0	YES	YES	bb	bb	0.175
68	123678-HxCDD	36.09	1.307e3	1.217e3	0.904	1.07	17.3	YES	NO	db	db	0.331
69	123478-HxCDD	35.97	2.633e2	1.937e2	0.921	1.24	3.8	NO	NO	bd	bd	0.062
70	Total-hexadoxins	35.16	3.802e3	3.159e3	0.944	1.20	48.3	YES	NO	db	db	0.894
71	Total-hexadoxins	35.05	9.566e3	7.482e3	0.944	1.28	66.6	YES	NO	dd	bd	2.191
72	Total-hexadoxins	34.66	7.010e3	5.793e3	0.944	1.21	88.6	YES	NO	bb	bb	1.645
73	124679-HxCDD	33.84	1.330e4	1.146e4	1.031	1.16	164.4	YES	NO	bb	bb	2.979
74	Total-hexadoxins	33.59	2.585e3	2.268e3	0.944	1.14	33.8	YES	NO	bb	bb	0.624

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
75	1234678-HpCDD	5.914e4	5.702e4	1.046	1.04	1.05	472.9	YES	NO	bb	bb	19.384
76	Total-heptadioxins	1.233e2	2.163e2	1.137	0.57	1.05	2.2	NO	YES	bb	bb	0.052
77	1234679-HPCDD	3.974e5	3.801e5	1.228	1.05	1.05	3304.3	YES	NO	bb	bb	110.581
78	OCDD	44.70	4.915e5	0.984	0.89	0.89	4964.1	YES	NO	bb	bb	258.551

PFK1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	3.200e4					1.9	NO		bb		
2	FUNCTION1 PFK	9.872e4					2.4	NO		bb		
3	FUNCTION1 PFK	1.348e6					3.1	YES		bb		
4	FUNCTION1 PFK	1.069e6					4.6	YES		bb		
5	FUNCTION1 PFK	4.611e4					1.5	NO		bb		
6	FUNCTION1 PFK	2.619e4					1.4	NO		bb		
7	FUNCTION1 PFK	7.091e5					2.2	NO		bb		
8	FUNCTION1 PFK	5.643e4					2.1	NO		bb		
9	FUNCTION1 PFK	1.828e4					1.2	NO		bb		
10	FUNCTION1 PFK	4.383e4					1.9	NO		bb		
11	FUNCTION1 PFK	4.931e4					2.0	NO		bb		

PFK2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	6.678e5					6.6	YES		bb		0.000
2	FUNCTION2 PFK	1.931e6					26.5	YES		bb		0.000
3	FUNCTION2 PFK	1.384e6					4.0	YES		bb		0.000
4	FUNCTION2 PFK	1.255e5					10.0	YES		db		0.000
5	FUNCTION2 PFK	1.659e6					18.1	YES		bd		0.000
6	FUNCTION2 PFK	1.582e4					1.9	NO		bb		0.000

PFK3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	6.459e5					5.5	YES		bb		0.000
2	FUNCTION3 PFK	1.271e6					6.5	YES		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.38	1.222e4					1.7	NO		bb		
2	FUNCTION4 PFK	40.22	1.205e4					2.0	NO		bb		
3	FUNCTION4 PFK	40.16	4.945e3					1.1	NO		bb		
4	FUNCTION4 PFK	40.00	2.073e3					0.6	NO		bb		
5	FUNCTION4 PFK	39.64	1.277e3					0.6	NO		bb		
6	FUNCTION4 PFK	39.44	5.734e3					1.2	NO		bb		
7	FUNCTION4 PFK	39.30	4.702e3					0.9	NO		bb		
8	FUNCTION4 PFK	39.11	7.965e3					1.6	NO		bb		
9	FUNCTION4 PFK	38.75	9.390e3					1.4	NO		bb		
10	FUNCTION4 PFK	38.51	5.445e3					1.2	NO		bb		
11	FUNCTION4 PFK	38.42	2.149e3					0.6	NO		bb		
12	FUNCTION4 PFK	38.21	4.885e3					1.2	NO		bb		
13	FUNCTION4 PFK	38.15	2.604e3					0.7	NO		db		
14	FUNCTION4 PFK	38.11	1.419e4					1.6	NO		bd		
15	FUNCTION4 PFK	37.93	3.781e3					0.9	NO		bb		
16	FUNCTION4 PFK	37.81	1.039e4					1.6	NO		bb		
17	FUNCTION4 PFK	42.72	2.675e3					0.7	NO		bb		
18	FUNCTION4 PFK	42.48	2.329e3					0.6	NO		bb		
19	FUNCTION4 PFK	42.07	5.487e3					0.9	NO		bb		
20	FUNCTION4 PFK	41.42	8.693e3					1.4	NO		bb		
21	FUNCTION4 PFK	41.16	3.707e3					0.9	NO		bb		
22	FUNCTION4 PFK	41.05	8.419e3					1.1	NO		bb		
23	FUNCTION4 PFK	40.92	7.184e3					1.2	NO		bb		
24	FUNCTION4 PFK	40.87	5.834e3					0.9	NO		bb		
25	FUNCTION4 PFK	40.80	6.376e3					1.2	NO		db		
26	FUNCTION4 PFK	40.77	7.557e3					1.1	NO		bd		
27	FUNCTION4 PFK	40.57	3.619e3					0.8	NO		db		
28	FUNCTION4 PFK	40.53	1.991e3					0.7	NO		bd		
29	FUNCTION4 PFK	40.49	9.131e3					1.5	NO		db		
30	FUNCTION4 PFK	40.46	3.950e3					1.2	NO		bd		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Quantify Totals Report MassLynx MassLynx V4.1 SCN909
 Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

ETHERS1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION1 HXCD...	25.68	3.242e3					191.7	YES	bb	bb		0.000
2 FUNCTION1 HXCD...	25.39	3.960e2					34.3	YES	bb	bb		0.000

ETHERS2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION1 HPCD...	21.89	3.892e2					12.2	YES	bb	bb		0.000

ETHERS3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

ETHERS4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION3 OCDPE	34.73	7.011e1					4.4	YES	bb	bb		0.000
2 FUNCTION3 OCDPE	34.55	7.357e1					4.7	YES	bb	bb		0.000

ETHERS5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION4 NCDPE	38.21	1.443e3					57.3	YES	bb	bb		0.000

ETHERS6

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

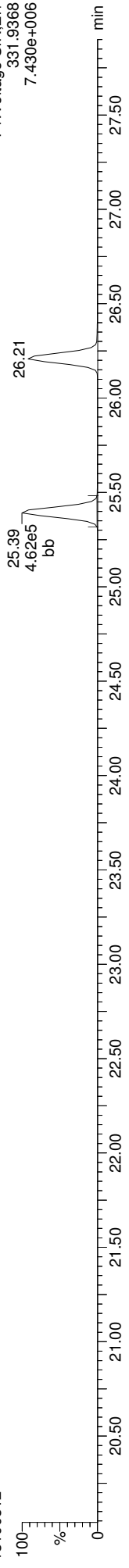
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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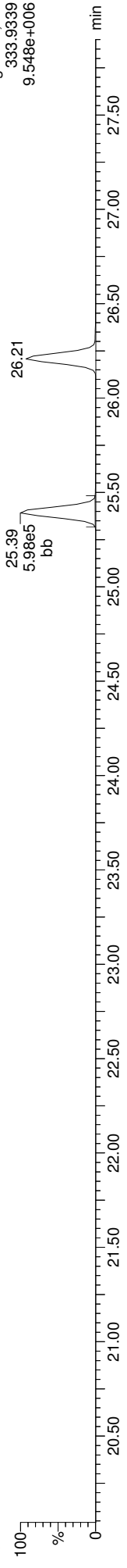
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ID: 1810285-04, **Name:** 18100512, **Date:** 05-Oct-2018, **Time:** 18:31:56, **Conditions:** AUTOSPEC01, **User:** PK

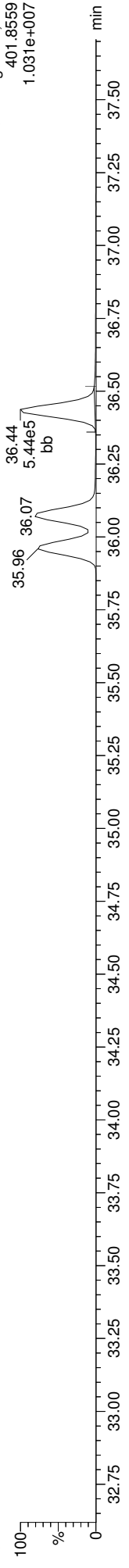
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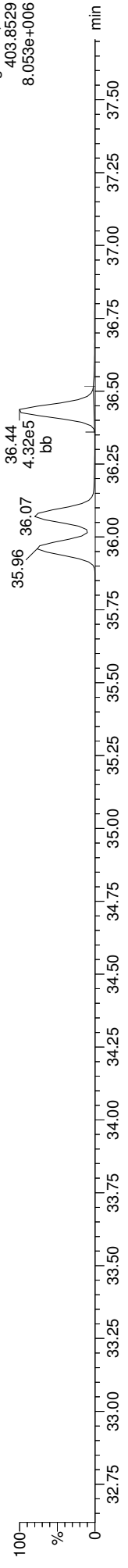
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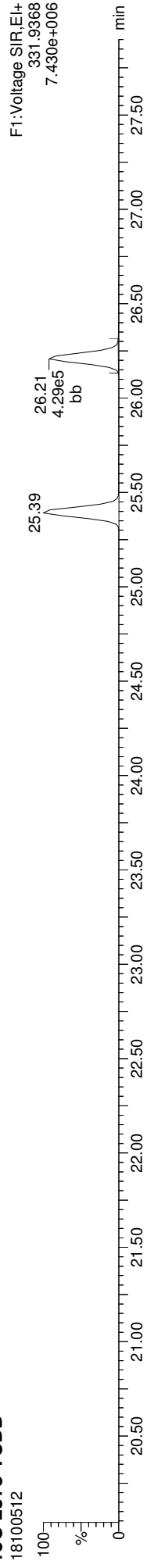
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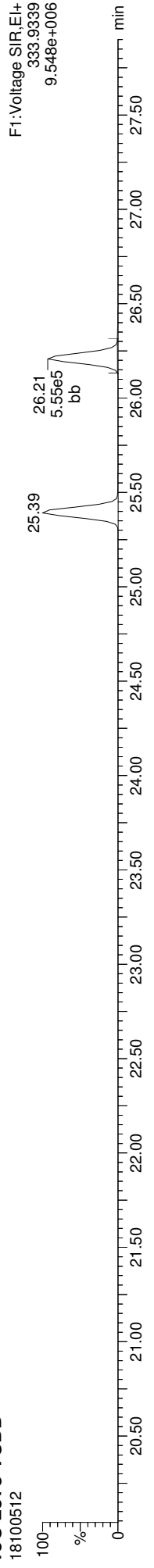
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MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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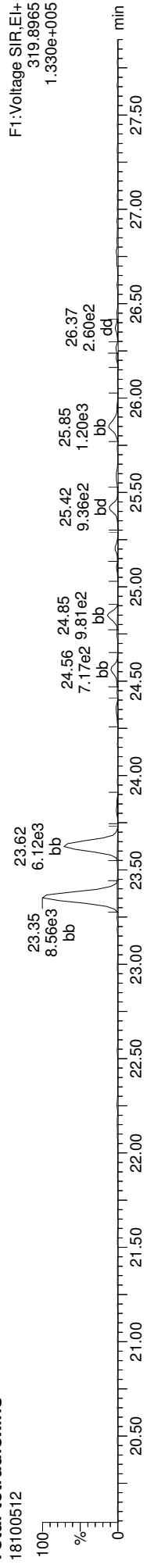
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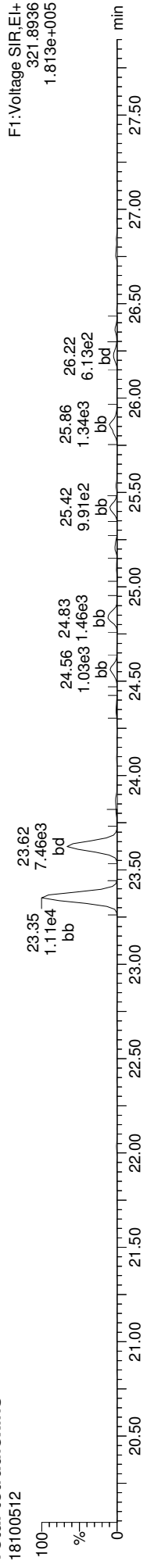
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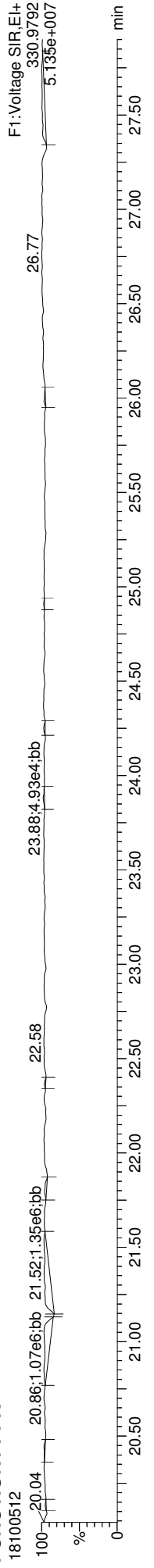
Total-tetradioxins



Total-tetradioxins



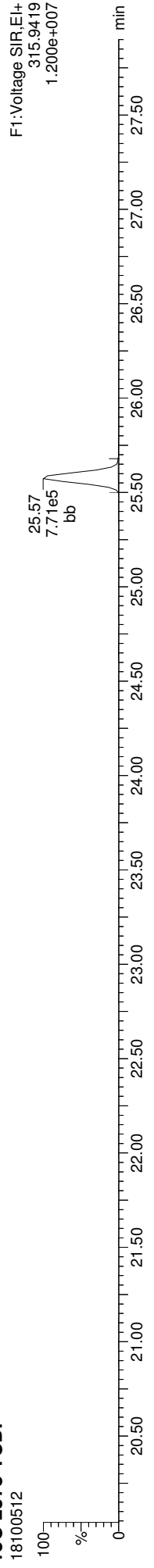
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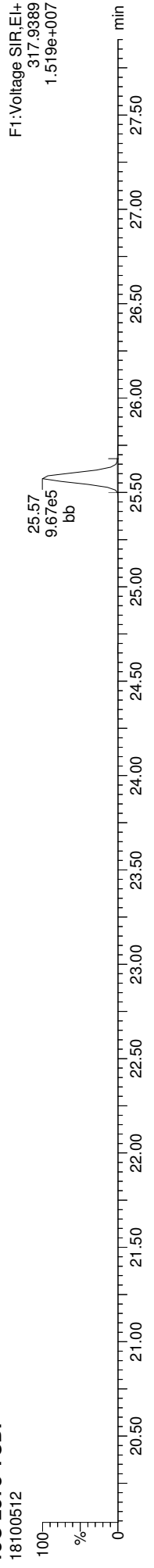
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MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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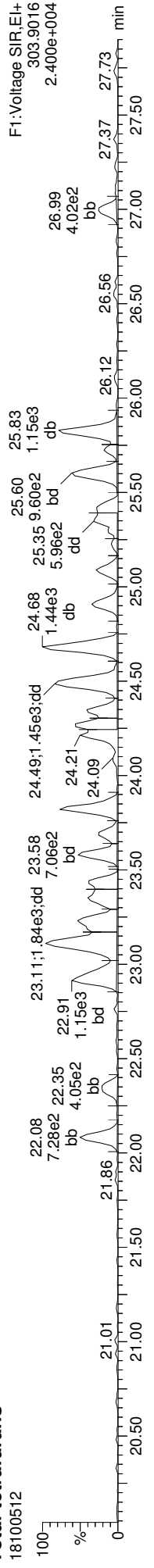
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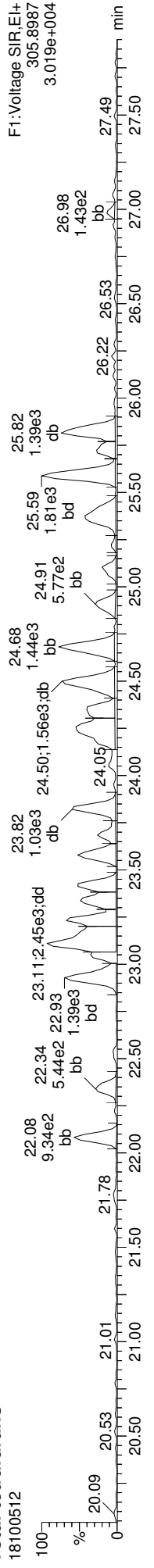
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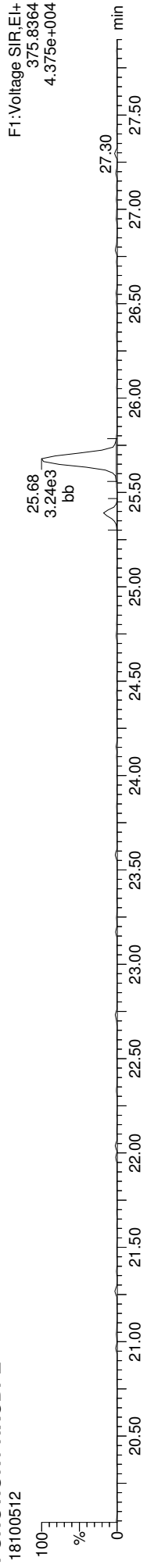
Total-tetrafurans



Total-tetrafurans



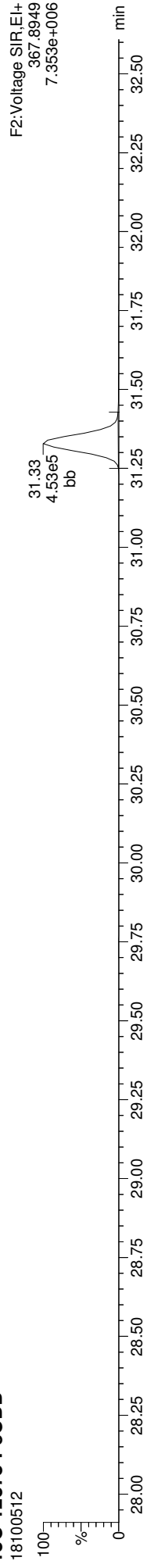
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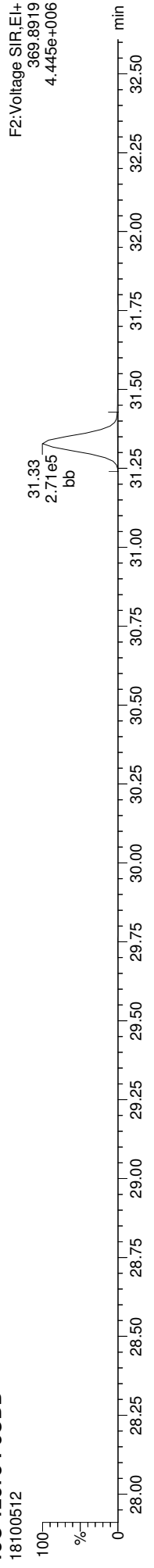
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
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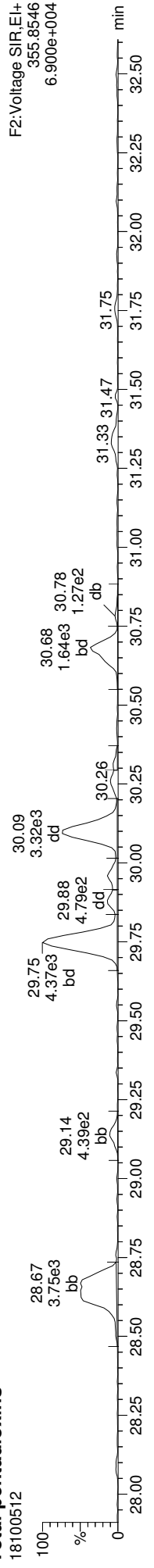
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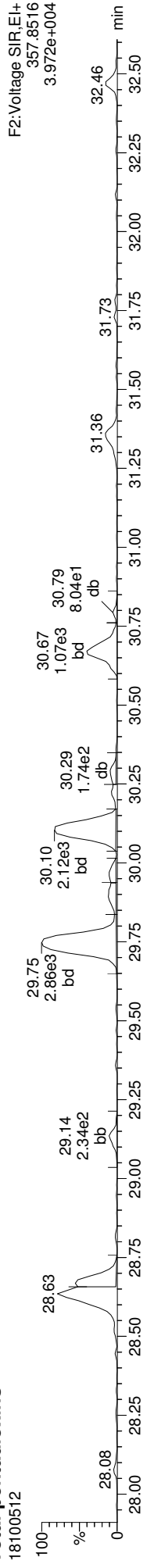
13C-12378-PeCDD



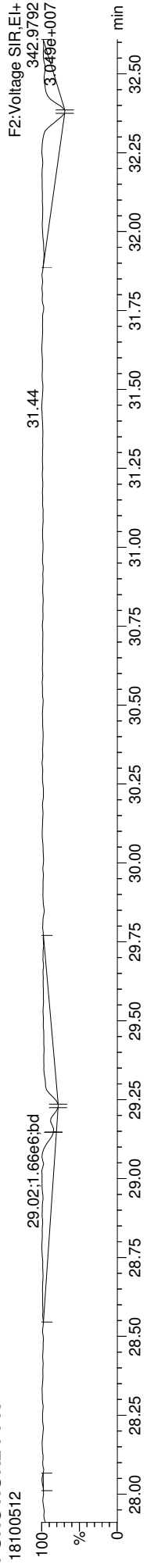
Total-pentadioxins



Total-pentadioxins



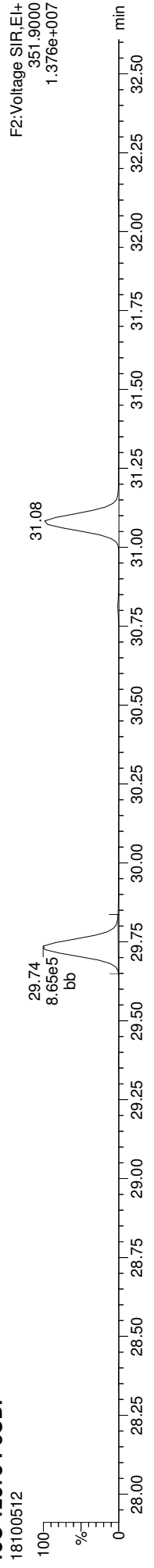
FUNCTION2 PFK



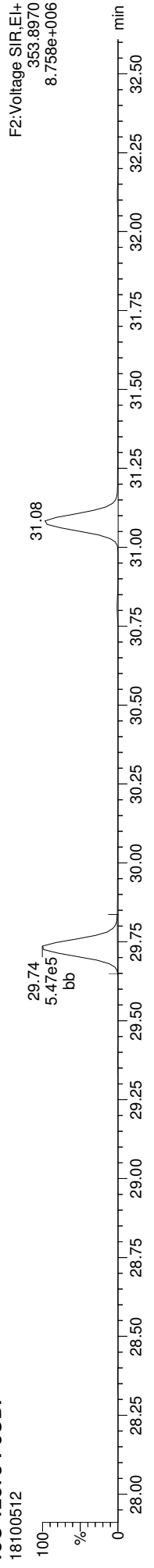
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

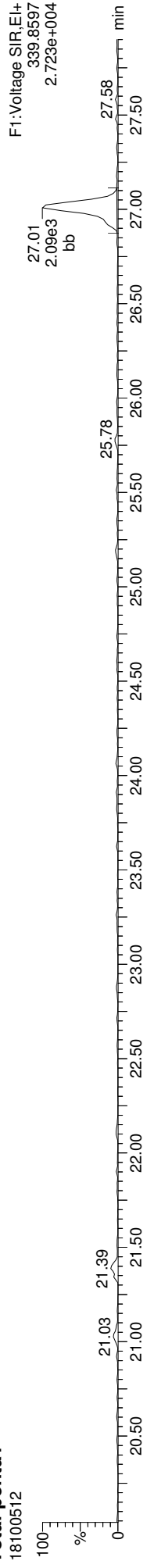
13C-12378-PeCDF



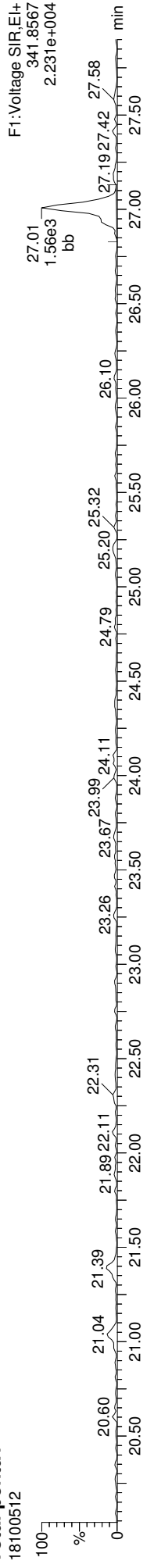
13C-12378-PeCDF



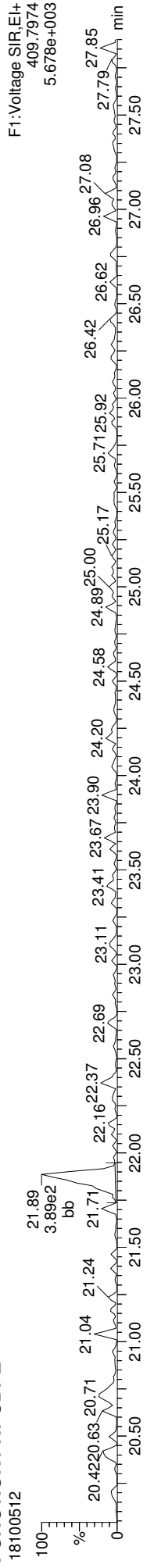
Total-penta1



Total-penta1



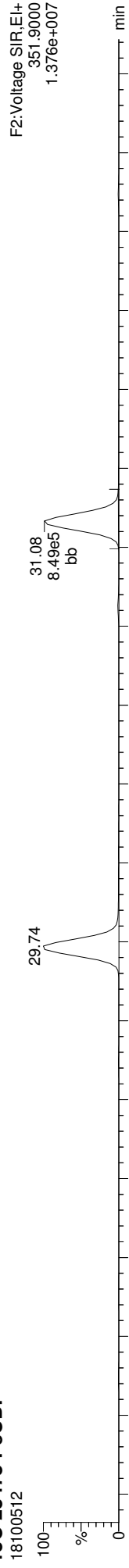
FUNCTION1 HPCDPE



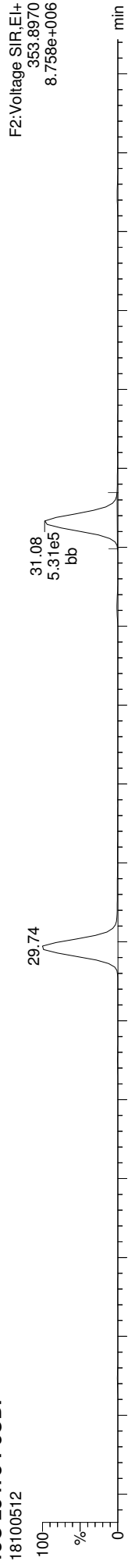
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

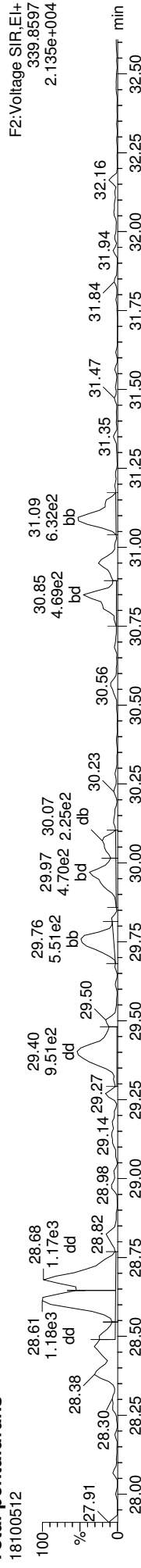
13C-23478-PeCDF



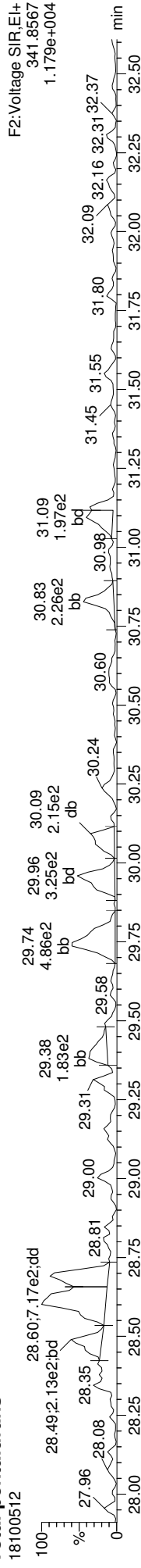
13C-23478-PeCDF



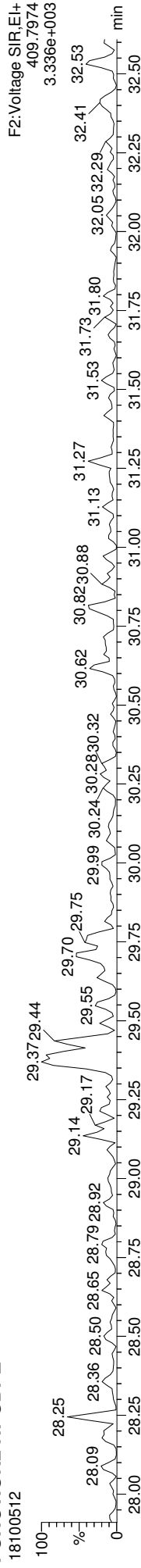
Total-pentafurans



Total-pentafurans



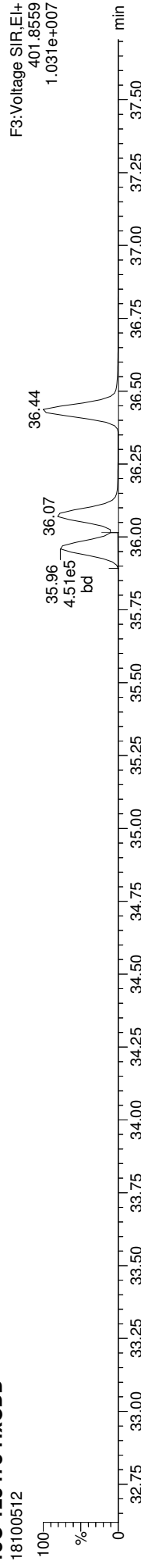
FUNCTION2 HPCDPE



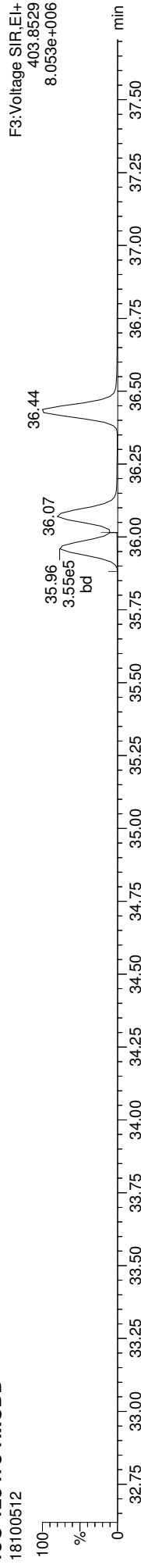
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

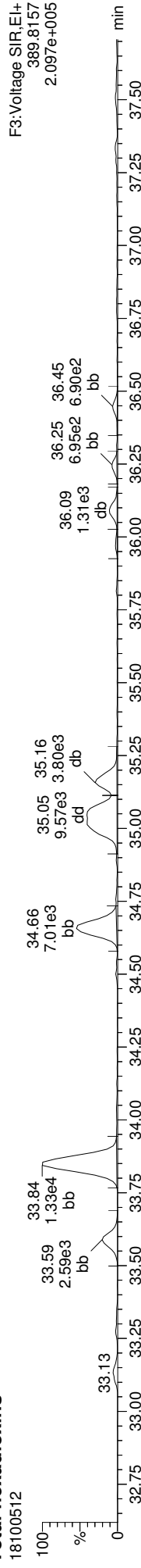
13C-123478-HxCDD



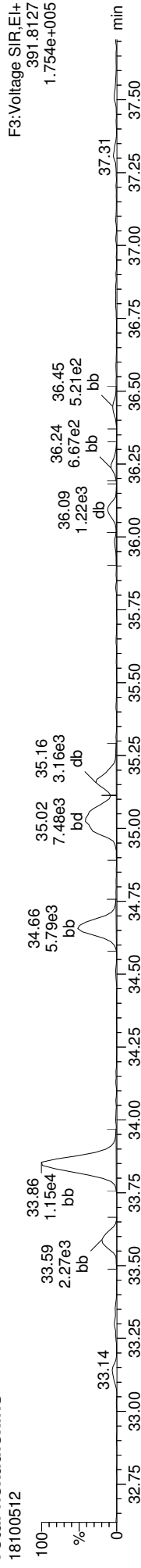
13C-123478-HxCDD



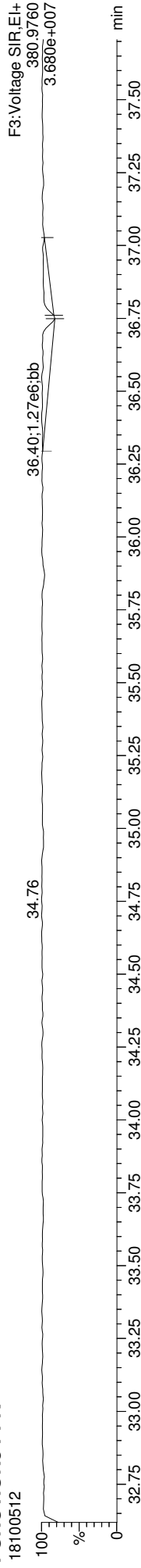
Total-hexadioxins



Total-hexadioxins



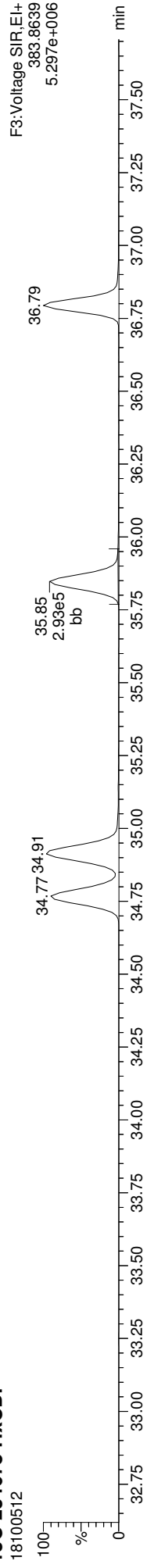
FUNCTION3 PFK



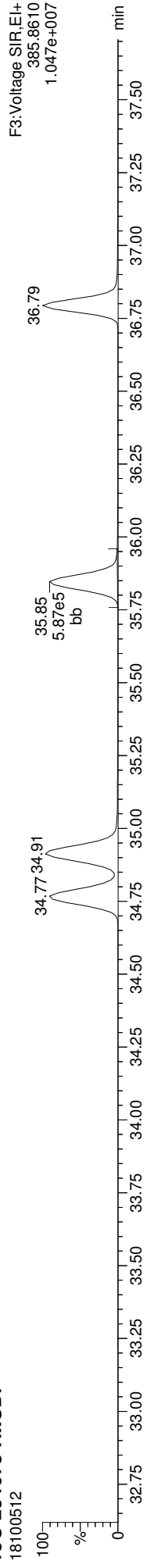
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

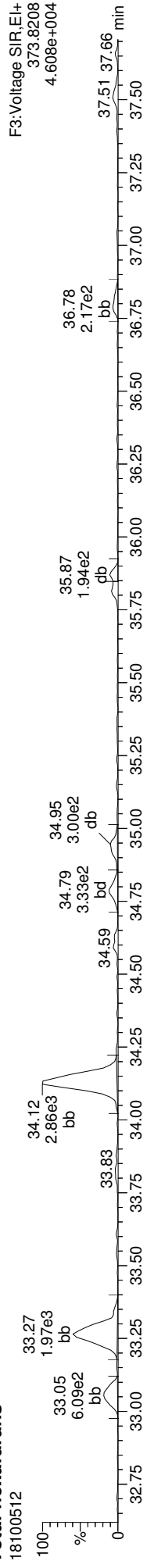
13C-234678-HxCDF



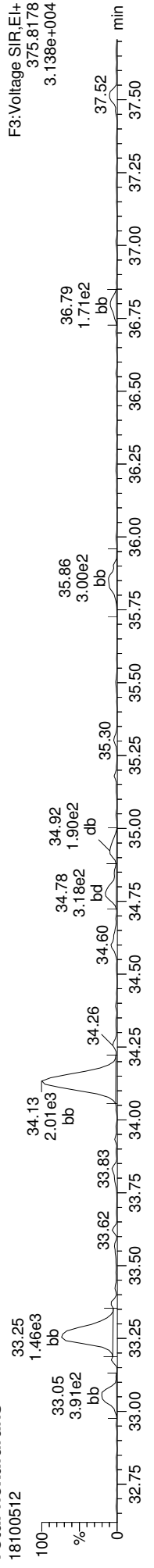
13C-234678-HxCDF



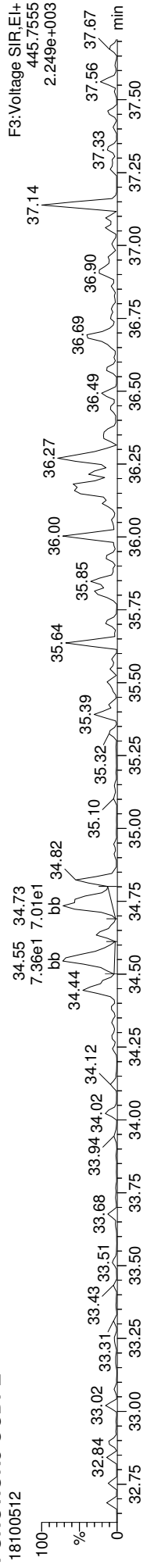
Total-hexafurans



Total-hexafurans



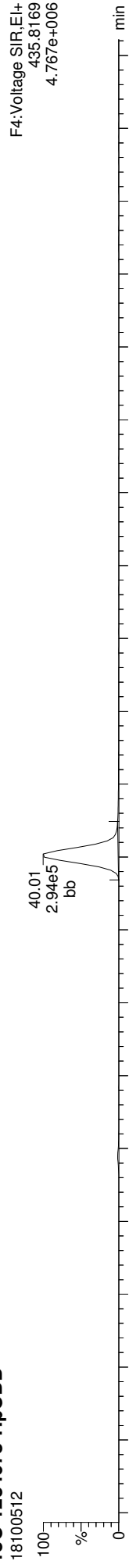
FUNCTION3 OCDPE



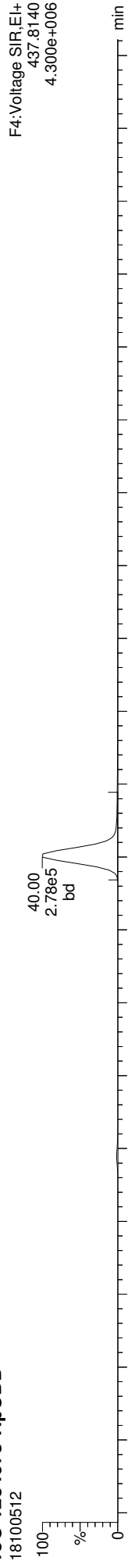
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

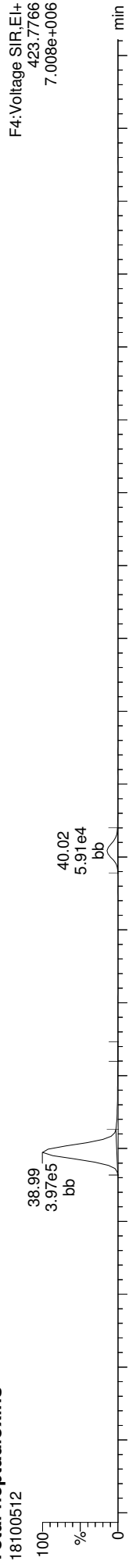
13C-1234678-HpCDD



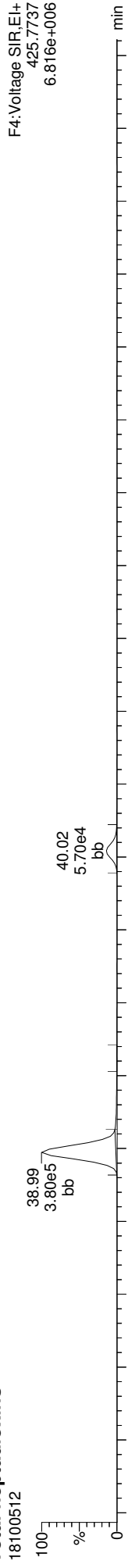
13C-1234678-HpCDD



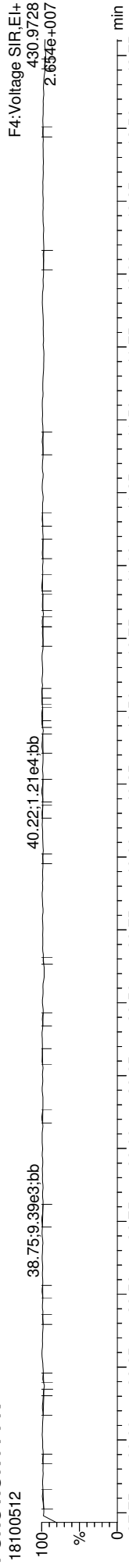
Total-heptadioxins



Total-heptadioxins



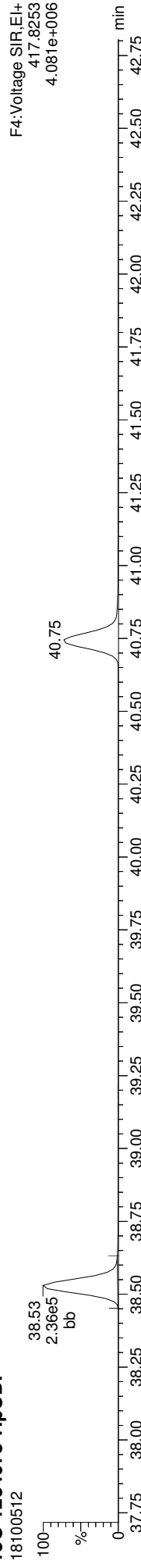
FUNCTION4 PFK



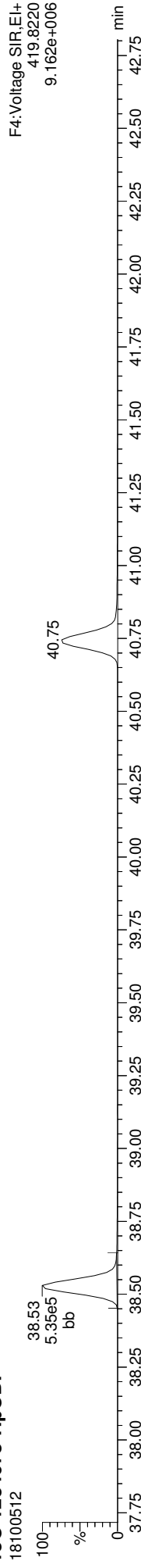
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

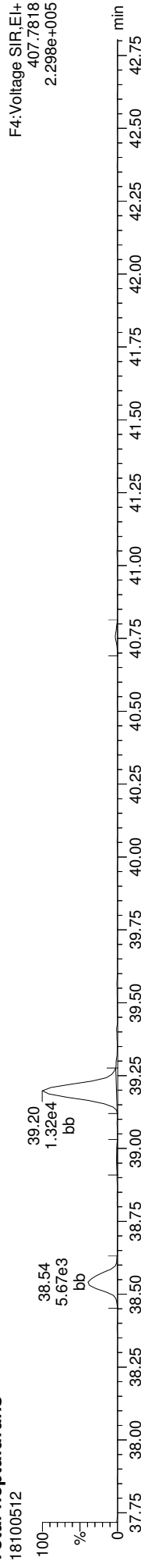
13C-1234678-HpCDF



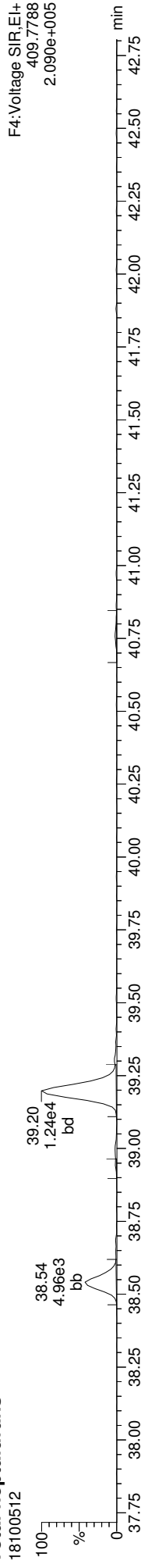
13C-1234678-HpCDF



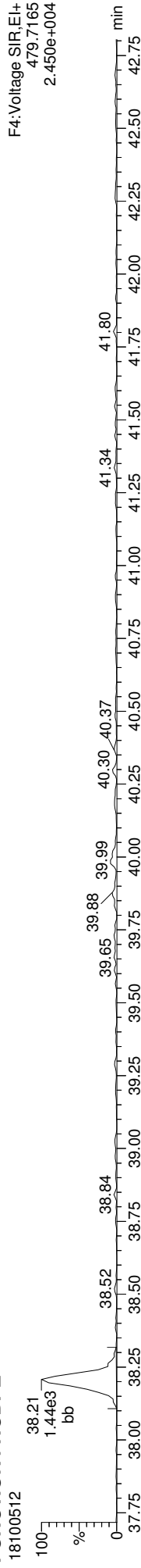
Total-heptafurans



Total-heptafurans



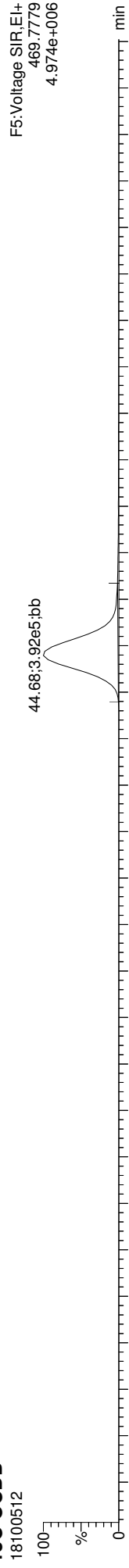
FUNCTION4 NCDPE



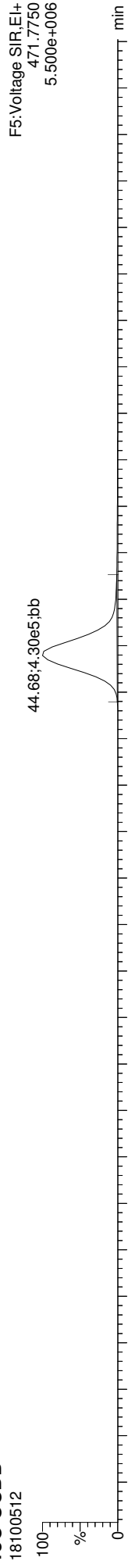
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

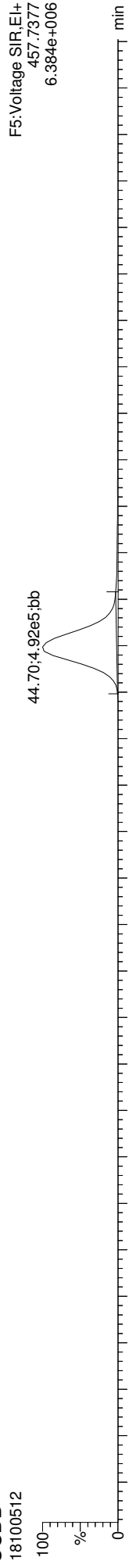
13C-OCDD



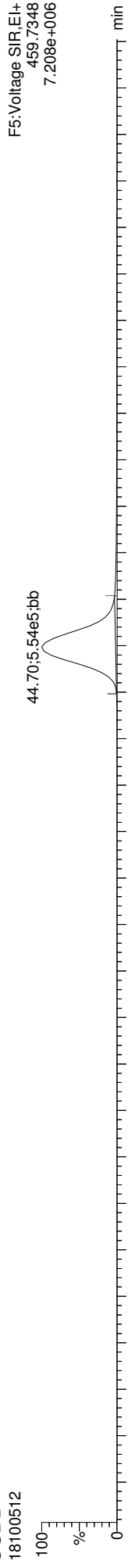
13C-OCDD



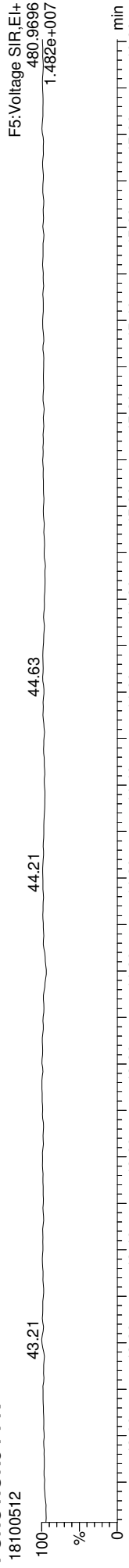
OCDD



OCDD



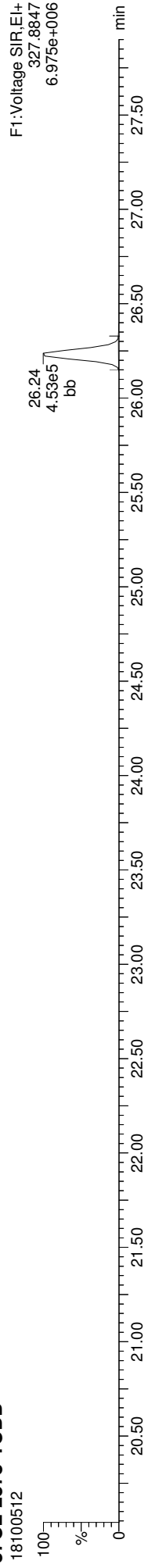
FUNCTION5 PFK



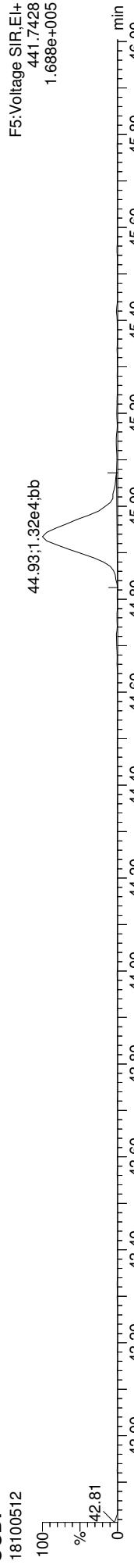
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:25:17 Pacific Daylight Time

ID: 1810285-04, Name: 18100512, Date: 05-Oct-2018, Time: 18:31:56, Conditions: AUTOSPEC01, User: PK

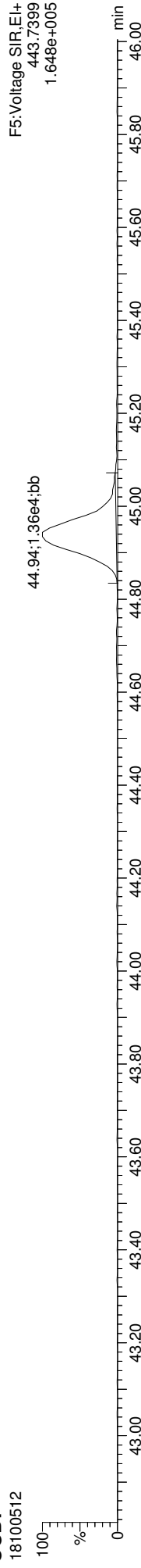
37CL-2378-TCDD



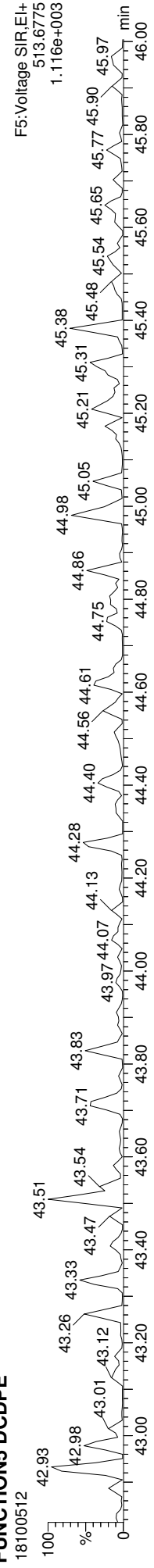
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 18I0285
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-05 File ID: 18100515
 Sampled: 09/18/18 15:10 Prepared: 10/02/18 16:00 Analyzed: 10/05/18 21:03
 % Solids: 79.59 Preparation: EPA 1613 Initial/Final: 12.68 g Wet / 20 uL
 Result Basis: Dry Sequence: SGJ0093 Calibration: BH00060
 Batch: BGI0793 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.816	0.655-0.886		0.991	0.422	ng/kg	J
1746-01-6	2,3,7,8-TCDD	1	0.312	0.655-0.886		0.991	0.197	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.269	1.318-1.783		0.991	0.332	ng/kg	EMPC, J, B
57117-31-4	2,3,4,7,8-PeCDF	1	1.484	1.318-1.783		0.991	0.212	ng/kg	J
40321-76-4	1,2,3,7,8-PeCDD	1	1.769	1.318-1.783		0.991	0.303	ng/kg	J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.112	1.054-1.426		0.991	0.229	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.071	1.054-1.426		0.991	0.188	ng/kg	J
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.360	1.054-1.426		0.991	0.207	ng/kg	J
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.760	1.054-1.426		0.991	0.126	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.207	1.054-1.426		0.991	0.164	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.457	1.054-1.426		0.991	0.838	ng/kg	EMPC, J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.193	1.054-1.426		0.991	0.378	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.928	0.893-1.208		0.991	1.68	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.598	0.893-1.208		0.991	0.115	ng/kg	EMPC, J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.010	0.893-1.208		2.48	7.85	ng/kg	
39001-02-0	OCDF	1	0.992	0.757-1.024		1.98	2.88	ng/kg	
3268-87-9	OCDD	1	0.831	0.757-1.024		9.91	62.3	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.991	7.78	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.991	7.87	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.991	3.62	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.991	4.35	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.991	3.19	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.991	10.0	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.991	4.22	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.991	29.4	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.945
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.945



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>18I0285-05</u>
Sampled:	<u>09/18/18 15:10</u>	Prepared:	<u>10/02/18 16:00</u>
Solids Wt%:	<u>79.59</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SGJ0093</u>
Batch:	<u>BGI0793</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>18I00515</u>
		Analyzed:	<u>10/05/18 21:03</u>
		Initial/Final:	<u>12.68 g / 20 uL</u>
		Calibration:	<u>BH00060</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.793	0.655-0.886		89.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.763	0.655-0.886		79.1	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.569	1.318-1.783		81.6	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.577	1.318-1.783		80.5	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.670	1.318-1.783		72.8	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.496	0.434-0.587		83.6	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.502	0.434-0.587		87.8	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.496	0.434-0.587		87.2	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.497	0.434-0.587		85.6	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.285	1.054-1.426		85.9	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.292	1.054-1.426		86.5	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.436	0.374-0.506		83.0	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.438	0.374-0.506		84.4	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.083	0.893-1.208		80.1	23 - 140 %	
13C12-OCDD		0.919	0.757-1.024		63.9	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			94.1	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820\CIH.cdb 21 Aug 2018 11:13:54

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.603	1.001	1.285e3	1.574e3	0.834	0.816	0.770	839	1185	1.88e4	2.66e4	22.4	YES	NO	bd	bb	0.213
12378-PeCDF	29.759	1.001	9.897e2	7.798e2	0.852	1.269	1.550	1724	1031	1.74e4	1.30e4	10.1	YES	YES	bb	bb	0.168
23478-PeCDF	31.116	1.001	7.299e2	4.918e2	0.944	1.484	1.550	1724	1031	1.07e4	8.85e3	6.2	YES	NO	bb	bb	0.107
123478-HxCDF	34.789	1.000	4.534e2	4.076e2	0.963	1.112	1.240	531	368	6.87e3	7.73e3	12.9	YES	NO	bd	bd	0.116
234678-HxCDF	35.869	1.001	4.602e2	3.385e2	0.991	1.360	1.240	531	368	5.33e3	5.08e3	10.0	YES	NO	bb	bb	0.104
123678-HxCDF	34.956	1.001	3.887e2	3.630e2	0.917	1.071	1.240	531	368	5.01e3	5.34e3	9.4	YES	NO	db	db	0.095
123789-HxCDF	36.815	1.000	1.855e2	2.440e2	0.938	0.760	1.240	531	368	4.07e3	3.99e3	7.7	YES	YES	bb	bb	0.064
1234678-HpCDF	38.541	1.000	3.056e3	3.292e3	1.119	0.928	1.050	611	332	5.28e4	5.83e4	86.4	YES	NO	bb	bb	0.847
1234789-HpCDF	40.756	1.000	2.254e2	1.410e2	1.162	1.598	1.050	611	332	4.07e3	2.21e3	6.7	YES	YES	bb	MM	0.058
OCDF	44.943	1.005	3.082e3	3.105e3	1.145	0.992	0.890	172	316	3.43e4	3.37e4	199.6	YES	NO	MM	bb	1.453
2378-TCDD	26.253	1.001	2.097e2	6.719e2	0.982	0.312	0.770	616	325	2.61e3	1.08e4	4.2	YES	YES	MM	bd	0.099
12378-PeCDD	31.361	1.001	6.314e2	3.570e2	1.029	1.769	1.550	672	651	8.81e3	4.51e3	13.1	YES	NO	MM	bb	0.153
123478-HxCDD	35.992	1.001	2.960e2	2.451e2	0.921	1.207	1.240	786	458	5.87e3	4.15e3	7.5	YES	NO	bd	bd	0.083
123678-HxCDD	36.092	1.000	1.661e3	1.139e3	0.904	1.457	1.240	786	458	2.59e4	2.04e4	32.9	YES	YES	db	db	0.423
123789-HxCDD	36.448	1.010	6.856e2	5.747e2	0.918	1.193	1.240	786	458	1.23e4	1.12e4	15.6	YES	NO	bb	bb	0.191
1234678-HpCDD	40.032	1.001	1.005e4	9.950e3	1.046	1.010	1.050	859	1178	1.60e5	1.51e5	185.6	YES	NO	bb	bb	3.962
OCDD	44.705	1.000	5.220e4	6.285e4	0.984	0.831	0.890	673	865	6.49e5	7.99e5	964.2	YES	NO	bd	bd	31.453
13C-2378-TCDF	25.588	1.007	7.118e5	8.983e5	1.847	0.793	0.770	3067	1528	1.14e7	1.42e7	3704.8	YES	NO	bb	bb	89.433
13C-12378-PeCDF	29.736	1.170	7.567e5	4.822e5	1.558	1.569	1.550	1448	1637	1.17e7	7.57e6	8082.5	YES	NO	bb	bb	81.582
13C-23478-PeCDF	31.094	1.224	7.413e5	4.700e5	1.544	1.577	1.550	1448	1637	1.18e7	7.43e6	8138.9	YES	NO	bb	bb	80.486
13C-123478-HxCDF	34.778	0.955	2.566e5	5.172e5	1.152	0.496	0.510	1898	1929	4.01e6	8.00e6	2110.8	YES	NO	bd	bd	83.591
13C-123678-HxCDF	34.923	0.959	2.885e5	5.751e5	1.225	0.502	0.510	1898	1929	4.53e6	8.88e6	2384.6	YES	NO	db	db	87.757
13C-234678-HxCDF	35.847	0.984	2.564e5	5.168e5	1.104	0.496	0.510	1898	1929	4.29e6	8.59e6	2258.3	YES	NO	bb	bb	87.222
13C-123789-HxCDF	36.804	1.010	2.389e5	4.804e5	1.046	0.497	0.510	1898	1929	4.54e6	9.03e6	2392.2	YES	NO	bb	bb	85.638
13C-1234678-HpCDF	38.541	1.058	2.034e5	4.662e5	1.004	0.436	0.440	1296	1708	3.55e6	7.93e6	2743.5	YES	NO	bb	bb	82.991
13C-1234789-HpCDF	40.756	1.118	1.648e5	3.764e5	0.799	0.438	0.440	1296	1708	2.52e6	5.78e6	1942.6	YES	NO	bb	bb	84.350
13C-1234-TCDD	25.407	0.000	4.287e5	5.462e5	1.000	0.785	0.770	1105	589	6.91e6	8.78e6	6250.8	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.223	1.032	3.907e5	5.120e5	1.171	0.763	0.770	1105	589	6.28e6	8.18e6	5684.5	YES	NO	bb	bb	79.063
13C-12378-PeCDD	31.339	1.234	3.933e5	2.355e5	0.886	1.670	1.550	639	956	6.29e6	3.78e6	9849.8	YES	NO	bb	bb	72.806
13C-123478-HxCDD	35.969	0.987	3.986e5	3.101e5	1.027	1.285	1.240	1207	851	6.77e6	5.26e6	5606.6	YES	NO	bd	bd	85.916
13C-123678-HxCDD	36.081	0.990	4.130e5	3.197e5	1.055	1.292	1.240	1207	851	7.04e6	5.50e6	5831.9	YES	NO	db	db	86.453
13C-1234678-HpCDD	40.010	1.098	2.507e5	2.315e5	0.749	1.083	1.050	1135	1173	3.97e6	3.69e6	3496.2	YES	NO	bb	bb	80.147
13C-OCDD	44.696	1.227	3.560e5	3.876e5	0.725	0.919	0.890	1330	1535	4.23e6	4.65e6	3183.0	YES	NO	bd	bd	127.724
13C-123789-HxCDD	36.437	0.000	4.503e5	3.530e5	1.000	1.275	1.240	1207	851	8.23e6	6.52e6	6818.6	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.238	1.033	4.111e5		1.121			425		6.55e6		15397.1	YES		bb		37.629

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1368-TCDF	22.098	0.864	9.266e2	1.732e3	1.020	0.535	0.770	839	1185	1.50e4	2.89e4	17.9	YES	YES	bb	bb	0.162
1289-TCDF					0.818		0.770	839	1185								
13468-PECDF					1.163		1.550	229	468								
12389-PECDF					0.912		1.550	1724	1031								
123468-HXCDF	33.053	0.950	8.508e2	7.428e2	1.051	1.145	1.240	531	368	1.46e4	1.07e4	27.5	YES	NO	bb	bd	0.196
1368-TCDD	23.367	0.891	7.047e3	8.423e3	1.026	0.837	0.770	616	325	1.23e5	1.39e5	200.3	YES	NO	bb	bb	1.670
1289-TCDD					0.938		0.770	616	325								
12479-PECDD	28.657	0.914	4.266e3	2.849e3	1.807	1.497	1.550	672	651	4.19e4	2.98e4	62.4	YES	NO	MM	bb	0.626
12389-PECDD					1.326		1.550	672	651								
124679-HXCDD	33.854	0.941	3.099e3	2.533e3	1.031	1.223	1.240	786	458	4.69e4	3.72e4	59.6	YES	NO	bb	bb	0.770
1234679-HPCDD	38.997	0.975	3.387e4	3.046e4	1.228	1.112	1.050	859	1178	5.89e5	5.30e5	685.2	YES	NO	bb	bb	10.865
Total-tetrafurans			2.408e4		0.891			839		3.50e5							3.926
Total-penta1			4.481e3					229		6.78e4							0.660
Total-pentafurans			8.263e3		0.903			1724		1.37e5							1.167
Total-hexafurans			6.873e3		0.972			531		1.04e5							1.608
Total-heptafurans			7.829e3		1.141			611		1.34e5							2.130
Total-Furans			5.461e4		0.989			839		8.28e5							10.944
Total-tetraoxins			1.598e4		0.982			616		2.63e5							3.969
Total-pentadioxins			1.235e4		1.387			672		1.69e5							2.197
Total-hexadioxins			1.937e4		0.944			786		2.88e5							5.047
Total-heptadioxins			4.392e4		1.137			859		7.48e5							14.827
Total-Dioxins			1.438e5		1.088			616		2.12e6							57.493
Total-TEQ			1.984e5					616		2.95e6							68.436
FUNCTION1 PFK			2.227e6					394346		8.98e6							0.000
FUNCTION2 PFK			1.518e6					194987		1.45e7							0.000
FUNCTION3 PFK			9.133e5					189842		1.41e7							
FUNCTION4 PFK			0.000e0					157236		0.00e0							
FUNCTION5 PFK			3.956e3					107613		1.94e5							
FUNCTION1 HXGD...			1.356e4					173		2.06e5							0.000
FUNCTION1 HPCD...			3.760e2					390		6.75e3							0.000
FUNCTION2 HPCD...			4.203e2					471		8.04e3							0.000
FUNCTION3 OCDPE			0.000e0					192		0.00e0							
FUNCTION4 NCDPE			1.883e3					283		3.69e4							0.000
FUNCTION5 DCDPE			0.000e0					219		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

TF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-tetraturans	24.50	1.923e3	2.577e3	0.891	0.75	0.77	30.5	YES	NO	db	db	0.314
Total-tetraturans	24.35	7.980e2	1.126e3	0.891	0.71	0.77	17.2	YES	NO	dd	dd	0.134
Total-tetraturans	24.26	1.881e3	2.518e3	0.891	0.75	0.77	23.2	YES	NO	dd	dd	0.307
Total-tetraturans	23.84	8.733e2	1.348e3	0.891	0.65	0.77	19.0	YES	YES	db	db	0.155
Total-tetraturans	23.71	4.910e2	6.849e2	0.891	0.72	0.77	7.7	YES	NO	dd	dd	0.082
Total-tetraturans	23.59	1.019e3	1.547e3	0.891	0.66	0.77	18.6	YES	NO	bd	dd	0.179
Total-tetraturans	23.43	8.969e2	1.186e3	0.891	0.76	0.77	14.9	YES	NO	db	dd	0.145
Total-tetraturans	23.34	9.426e2	1.140e3	0.891	0.83	0.77	18.2	YES	NO	dd	dd	0.145
Total-tetraturans	23.25	1.286e3	2.052e3	0.891	0.63	0.77	24.3	YES	YES	dd	dd	0.233
Total-tetraturans	23.13	2.976e3	3.891e3	0.891	0.76	0.77	40.8	YES	NO	dd	dd	0.479
Total-tetraturans	22.94	1.584e3	2.187e3	0.891	0.72	0.77	21.4	YES	NO	bd	bd	0.263
Total-tetraturans	22.37	6.672e2	9.656e2	0.891	0.69	0.77	14.4	YES	NO	bb	bb	0.114
1368-TCDF	22.10	9.266e2	1.732e3	1.020	0.53	0.77	17.9	YES	YES	bb	bb	0.162
Total-tetraturans	26.99	5.800e2	4.316e2	0.891	1.34	0.77	8.9	YES	YES	bd	bd	0.071
Total-tetraturans	25.83	1.459e3	1.723e3	0.891	0.85	0.77	29.5	YES	NO	db	db	0.222
Total-tetraturans	25.72	3.710e2	4.063e2	0.891	0.91	0.77	7.2	YES	YES	dd	bd	0.054
2378-TCDF	25.60	1.285e3	1.574e3	0.834	0.82	0.77	22.4	YES	NO	bd	bb	0.213
Total-tetraturans	25.42	3.843e2	5.028e2	0.891	0.76	0.77	10.0	YES	NO	db	db	0.062
Total-tetraturans	25.38	7.371e2	8.597e2	0.891	0.86	0.77	13.3	YES	NO	dd	dd	0.111
Total-tetraturans	25.09	4.264e2	6.945e2	0.891	0.61	0.77	7.1	YES	YES	bd	bd	0.078
Total-tetraturans	24.92	8.647e2	1.055e3	0.891	0.82	0.77	16.6	YES	NO	bb	bb	0.134
Total-tetraturans	24.70	1.714e3	2.162e3	0.891	0.79	0.77	34.1	YES	NO	bb	bb	0.270

PP

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-penta1	27.02	4.481e3	3.013e3		1.49	1.55	295.4	YES	NO	bb	bb	0.660

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld

Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time

Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

PF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-pentafurans	29.39	9.494e2	5.342e2	0.903	1.78	1.55	6.7	YES	NO	bd	bd	0.134
2 Total-pentafurans	28.68	1.797e3	7.462e2	0.903	2.41	1.55	19.1	YES	YES	dd	db	0.230
3 Total-pentafurans	28.61	2.102e3	1.027e3	0.903	2.05	1.55	21.4	YES	YES	dd	dd	0.283
4 Total-pentafurans	28.49	7.527e2	3.641e2	0.903	2.07	1.55	5.9	YES	YES	MM	MM	0.101
5 23478-PeCDF	31.12	7.299e2	4.918e2	0.944	1.48	1.55	6.2	YES	NO	bb	bb	0.107
6 Total-pentafurans	30.86	4.217e2	2.101e2	0.903	2.01	1.55	4.4	YES	YES	bd	dd	0.057
7 Total-pentafurans	29.96	5.203e2	4.451e2	0.903	1.17	1.55	5.4	YES	YES	bb	bd	0.087
8 12378-PeCDF	29.76	9.897e2	7.798e2	0.852	1.27	1.55	10.1	YES	YES	bb	bb	0.168

HF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-hexafurans	33.28	2.313e3	1.707e3	0.972	1.35	1.24	62.0	YES	NO	bb	db	0.529
2 123468-HxCDF	33.05	8.508e2	7.428e2	1.051	1.15	1.24	27.5	YES	NO	bb	bd	0.196
3 123789-HxCDF	36.82	1.855e2	2.440e2	0.938	0.76	1.24	7.7	YES	YES	bb	bb	0.064
4 234678-HxCDF	35.87	4.602e2	3.385e2	0.991	1.36	1.24	10.0	YES	NO	bb	bb	0.104
5 123678-HxCDF	34.96	3.887e2	3.630e2	0.917	1.07	1.24	9.4	YES	NO	db	db	0.095
6 123478-HxCDF	34.79	4.534e2	4.076e2	0.963	1.11	1.24	12.9	YES	NO	bd	bd	0.116
7 Total-hexafurans	34.64	2.637e2	1.176e2	0.972	2.24	1.24	8.4	YES	YES	bb	bb	0.050
8 Total-hexafurans	34.14	1.957e3	1.503e3	0.972	1.30	1.24	58.6	YES	NO	bb	bb	0.455

HPF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 1234789-HpCDF	40.76	2.254e2	1.410e2	1.162	1.60	1.05	6.7	YES	YES	bb	MM	0.058
2 Total-heptafurans	39.21	4.548e3	3.912e3	1.141	1.16	1.05	126.9	YES	NO	bb	bb	1.225
3 1234678-HpCDF	38.54	3.056e3	3.292e3	1.119	0.93	1.05	86.4	YES	NO	bb	bb	0.847

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HIF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	24.50	1.923e3	2.577e3	0.891	0.75	0.77	30.5	YES	NO	db	db	0.314
2 Total-tetraturans	24.35	7.980e2	1.126e3	0.891	0.71	0.77	17.2	YES	NO	dd	dd	0.134
3 Total-tetraturans	24.26	1.881e3	2.518e3	0.891	0.75	0.77	23.2	YES	NO	dd	dd	0.307
4 Total-tetraturans	23.84	8.733e2	1.348e3	0.891	0.65	0.77	19.0	YES	YES	db	db	0.155
5 Total-tetraturans	23.71	4.910e2	6.849e2	0.891	0.72	0.77	7.7	YES	NO	dd	dd	0.082
6 Total-tetraturans	23.59	1.019e3	1.547e3	0.891	0.66	0.77	18.6	YES	NO	bd	dd	0.179
7 Total-tetraturans	23.43	8.969e2	1.186e3	0.891	0.76	0.77	14.9	YES	NO	db	dd	0.145
8 Total-tetraturans	23.34	9.426e2	1.140e3	0.891	0.83	0.77	18.2	YES	NO	dd	dd	0.145
9 Total-tetraturans	23.25	1.286e3	2.052e3	0.891	0.63	0.77	24.3	YES	YES	dd	dd	0.233
10 Total-tetraturans	23.13	2.976e3	3.891e3	0.891	0.76	0.77	40.8	YES	NO	dd	dd	0.479
11 Total-tetraturans	22.94	1.584e3	2.187e3	0.891	0.72	0.77	21.4	YES	NO	bd	bd	0.263
12 Total-tetraturans	22.37	6.672e2	9.656e2	0.891	0.69	0.77	14.4	YES	NO	bb	bb	0.114
13 1368-TCDF	22.10	9.266e2	1.732e3	1.020	0.53	0.77	17.9	YES	YES	bb	bb	0.162
14 Total-tetraturans	26.99	5.800e2	4.316e2	0.891	1.34	0.77	8.9	YES	YES	bd	bd	0.071
15 Total-tetraturans	25.83	1.459e3	1.723e3	0.891	0.85	0.77	29.5	YES	NO	db	db	0.222
16 Total-tetraturans	25.72	3.710e2	4.063e2	0.891	0.91	0.77	7.2	YES	YES	dd	bd	0.054
17 2378-TCDF	25.60	1.285e3	1.574e3	0.834	0.82	0.77	22.4	YES	NO	bd	bb	0.213
18 Total-tetraturans	25.42	3.843e2	5.028e2	0.891	0.76	0.77	10.0	YES	NO	db	db	0.062
19 Total-tetraturans	25.38	7.371e2	8.597e2	0.891	0.86	0.77	13.3	YES	NO	dd	dd	0.111
20 Total-tetraturans	25.09	4.264e2	6.945e2	0.891	0.61	0.77	7.1	YES	YES	bd	bd	0.078
21 Total-tetraturans	24.92	8.647e2	1.055e3	0.891	0.82	0.77	16.6	YES	NO	bb	bb	0.134
22 Total-tetraturans	24.70	1.714e3	2.162e3	0.891	0.79	0.77	34.1	YES	NO	bb	bb	0.270
23 Total-pentaturans	29.39	9.494e2	5.342e2	0.903	1.78	1.55	6.7	YES	NO	bd	bd	0.134
24 Total-pentaturans	28.68	1.797e3	7.462e2	0.903	2.41	1.55	19.1	YES	YES	db	db	0.230
25 Total-pentaturans	28.61	2.102e3	1.027e3	0.903	2.05	1.55	21.4	YES	YES	dd	dd	0.283
26 Total-pentaturans	28.49	7.527e2	3.641e2	0.903	2.07	1.55	5.9	YES	YES	MM	MM	0.101
27 23478-PeCDF	31.12	7.299e2	4.918e2	0.944	1.48	1.55	6.2	YES	NO	bb	bb	0.107
28 Total-pentaturans	30.86	4.217e2	2.101e2	0.903	2.01	1.55	4.4	YES	YES	bd	dd	0.057
29 Total-pentaturans	29.96	5.203e2	4.451e2	0.903	1.17	1.55	5.4	YES	YES	bb	bd	0.087
30 12378-PeCDF	29.76	9.897e2	7.798e2	0.852	1.27	1.55	10.1	YES	YES	bb	bb	0.168
31 Total-hexaturans	33.28	2.313e3	1.707e3	0.972	1.35	1.24	62.0	YES	NO	bb	db	0.529
32 123468-HxCDF	33.05	8.508e2	7.428e2	1.051	1.15	1.24	27.5	YES	NO	bb	bd	0.196
33 123789-HxCDF	36.82	1.855e2	2.440e2	0.938	0.76	1.24	7.7	YES	YES	bb	bb	0.064
34 234678-HxCDF	35.87	4.602e2	3.385e2	0.991	1.36	1.24	10.0	YES	NO	bb	bb	0.104
35 123678-HxCDF	34.96	3.887e2	3.630e2	0.917	1.07	1.24	9.4	YES	NO	db	db	0.095
36 123478-HxCDF	34.79	4.534e2	4.076e2	0.963	1.11	1.24	12.9	YES	NO	bd	bd	0.116
37 Total-hexaturans	34.64	2.637e2	1.176e2	0.972	2.24	1.24	8.4	YES	YES	bb	bb	0.050

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Furans,TF,PP,PF,HIF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38 Total-hexafurans	34.14	1.957e3	1.503e3	0.972	1.30	1.24	58.6	YES	NO	bb	bb	0.455
39 1234789-HpCDF	40.76	2.254e2	1.410e2	1.162	1.60	1.05	6.7	YES	YES	bb	MM	0.058
40 Total-heptafurans	39.21	4.548e3	3.912e3	1.141	1.16	1.05	126.9	YES	NO	bb	bb	1.225
41 1234678-HpCDF	38.54	3.056e3	3.292e3	1.119	0.93	1.05	86.4	YES	NO	bb	bb	0.847
42 OCDF	44.94	3.082e3	3.105e3	1.145	0.99	0.89	199.6	YES	NO	MM	bb	1.453
43 Total-penta1	27.02	4.481e3	3.013e3		1.49	1.55	295.4	YES	NO	bb	bb	0.660

TD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetradoxins	25.57	1.742e2	1.441e2	0.982	1.21	0.77	4.5	YES	YES	db	db	0.036
2 Total-tetradoxins	25.44	6.793e2	7.761e2	0.982	0.88	0.77	17.5	YES	NO	bd	bd	0.164
3 Total-tetradoxins	25.23	3.059e2	3.318e2	0.982	0.92	0.77	6.7	YES	YES	db	db	0.072
4 Total-tetradoxins	25.10	1.456e2	8.593e1	0.982	1.69	0.77	4.9	YES	YES	bd	bd	0.026
5 Total-tetradoxins	24.85	1.204e3	1.476e3	0.982	0.82	0.77	32.1	YES	NO	bb	bb	0.302
6 Total-tetradoxins	24.58	1.014e3	1.107e3	0.982	0.92	0.77	27.7	YES	YES	bb	db	0.239
7 Total-tetradoxins	23.85	2.056e2	3.863e2	0.982	0.53	0.77	6.9	YES	YES	bb	db	0.067
8 Total-tetradoxins	23.64	3.607e3	5.005e3	0.982	0.72	0.77	93.4	YES	NO	bb	bd	0.971
9 1368-TCDD	23.37	7.047e3	8.423e3	1.026	0.84	0.77	200.3	YES	NO	bb	bb	1.670
10 Total-tetradoxins	26.37	2.984e2	3.351e2	0.982	0.89	0.77	6.7	YES	YES	db	db	0.071
11 2378-TCDD	26.25	2.097e2	6.719e2	0.982	0.31	0.77	4.2	YES	YES	MM	bd	0.099
12 Total-tetradoxins	25.88	1.090e3	1.129e3	0.982	0.97	0.77	22.5	YES	YES	bb	bb	0.250

PD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 12378-PeCDD	31.36	6.314e2	3.570e2	1.029	1.77	1.55	13.1	YES	NO	MM	bb	0.153
2 Total-pentadoxins	30.68	1.096e3	6.695e2	1.387	1.64	1.55	24.3	YES	NO	bb	bb	0.202
3 Total-pentadoxins	30.28	4.302e2	3.329e2	1.387	1.29	1.55	8.4	YES	YES	db	bb	0.087
4 Total-pentadoxins	30.11	2.026e3	1.458e3	1.387	1.39	1.55	45.9	YES	NO	dd	bb	0.399
5 Total-pentadoxins	29.98	5.595e2	3.294e2	1.387	1.70	1.55	12.8	YES	NO	bd	bb	0.102
6 Total-pentadoxins	29.76	3.173e3	1.990e3	1.387	1.59	1.55	79.5	YES	NO	bb	bb	0.592
7 Total-pentadoxins	29.15	1.655e2	1.454e2	1.387	1.14	1.55	5.8	YES	YES	bb	bb	0.036
8 12479-PECDD	28.66	4.266e3	2.849e3	1.807	1.50	1.55	62.4	YES	NO	MM	bb	0.626

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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HD

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	123789-HxCDD	36.45	6.856e2	5.747e2	0.918	1.19	1.24	15.6	YES	NO	bb	bb	0.191
	Total-hexadioxins	36.26	3.005e2	1.943e2	0.944	1.55	1.24	7.8	YES	YES	bb	bb	0.073
	123678-HxCDD	36.09	1.661e3	1.139e3	0.904	1.46	1.24	32.9	YES	YES	db	db	0.423
	123478-HxCDD	35.99	2.960e2	2.451e2	0.921	1.21	1.24	7.5	YES	NO	bd	bd	0.083
	Total-hexadioxins	35.15	4.019e2	3.796e2	0.944	1.06	1.24	7.2	YES	NO	db	db	0.115
	Total-hexadioxins	35.06	5.349e3	4.229e3	0.944	1.26	1.24	73.9	YES	NO	bd	bd	1.409
	Total-hexadioxins	34.67	5.367e3	4.015e3	0.944	1.34	1.24	114.9	YES	NO	bd	bb	1.380
	124679-HxCDD	33.85	3.099e3	2.533e3	1.031	1.22	1.24	59.6	YES	NO	bb	bb	0.770
	Total-hexadioxins	33.60	2.211e3	1.897e3	0.944	1.17	1.24	46.6	YES	NO	bb	bb	0.604

HPD

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	1234678-HpCDD	40.03	1.005e4	9.950e3	1.046	1.01	1.05	185.6	YES	NO	bb	bb	3.962
	1234679-HPCDD	39.00	3.387e4	3.046e4	1.228	1.11	1.05	685.2	YES	NO	bb	bb	10.865

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Dioxins,TD,PD,HD,HPCDD,OD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetradoxins	25.57	1.742e2	1.441e2	0.982	1.21	0.77	4.5	YES	YES	db	db	0.036
2 Total-tetradoxins	25.44	6.793e2	7.761e2	0.982	0.88	0.77	17.5	YES	NO	bd	bd	0.164
3 Total-tetradoxins	25.23	3.059e2	3.318e2	0.982	0.92	0.77	6.7	YES	YES	db	db	0.072
4 Total-tetradoxins	25.10	1.456e2	8.593e1	0.982	1.69	0.77	4.9	YES	YES	bd	bd	0.026
5 Total-tetradoxins	24.85	1.204e3	1.476e3	0.982	0.82	0.77	32.1	YES	NO	bb	bb	0.302
6 Total-tetradoxins	24.58	1.014e3	1.107e3	0.982	0.92	0.77	27.7	YES	YES	bb	db	0.239
7 Total-tetradoxins	23.85	2.056e2	3.863e2	0.982	0.53	0.77	6.9	YES	YES	bb	db	0.067
8 Total-tetradoxins	23.64	3.607e3	5.005e3	0.982	0.72	0.77	93.4	YES	NO	bb	bd	0.971
9 1368-TCDD	23.37	7.047e3	8.423e3	1.026	0.84	0.77	200.3	YES	NO	bb	bb	1.670
10 Total-tetradoxins	26.37	2.984e2	3.351e2	0.982	0.89	0.77	6.7	YES	YES	db	db	0.071
11 2378-TCDD	26.25	2.097e2	6.719e2	0.982	0.31	0.77	4.2	YES	YES	MM	bd	0.099
12 Total-tetradoxins	25.88	1.090e3	1.129e3	0.982	0.97	0.77	22.5	YES	YES	bb	bb	0.250
13 12378-PeCDD	31.36	6.314e2	3.570e2	1.029	1.77	1.55	13.1	YES	NO	MM	bb	0.153
14 Total-pentadoxins	30.68	1.096e3	6.695e2	1.387	1.64	1.55	24.3	YES	NO	bb	bb	0.202
15 Total-pentadoxins	30.28	4.302e2	3.329e2	1.387	1.29	1.55	8.4	YES	YES	db	bb	0.087
16 Total-pentadoxins	30.11	2.026e3	1.458e3	1.387	1.39	1.55	45.9	YES	NO	dd	bb	0.399
17 Total-pentadoxins	29.98	5.595e2	3.294e2	1.387	1.70	1.55	12.8	YES	NO	bd	bb	0.102
18 Total-pentadoxins	29.76	3.173e3	1.990e3	1.387	1.59	1.55	79.5	YES	NO	bb	bb	0.592
19 Total-pentadoxins	29.15	1.655e2	1.454e2	1.387	1.14	1.55	5.8	YES	YES	bb	bb	0.036
20 12479-PECDD	28.66	4.266e3	2.849e3	1.807	1.50	1.55	62.4	YES	NO	MM	bb	0.626
21 123789-HxCDD	36.45	6.856e2	5.747e2	0.918	1.19	1.24	15.6	YES	NO	bb	bb	0.191
22 Total-hexadoxins	36.26	3.005e2	1.943e2	0.944	1.55	1.24	7.8	YES	YES	bb	bb	0.073
23 123678-HxCDD	36.09	1.661e3	1.139e3	0.904	1.46	1.24	32.9	YES	YES	db	db	0.423
24 123478-HxCDD	35.99	2.960e2	2.451e2	0.921	1.21	1.24	7.5	YES	NO	bd	bd	0.083
25 Total-hexadoxins	35.15	4.019e2	3.796e2	0.944	1.06	1.24	7.2	YES	NO	db	db	0.115
26 Total-hexadoxins	35.06	5.349e3	4.229e3	0.944	1.26	1.24	73.9	YES	NO	bd	bd	1.409
27 Total-hexadoxins	34.67	5.367e3	4.015e3	0.944	1.34	1.24	114.9	YES	NO	bd	bb	1.380
28 124679-HxCDD	33.85	3.099e3	2.533e3	1.031	1.22	1.24	59.6	YES	NO	bb	bb	0.770
29 Total-hexadoxins	33.60	2.211e3	1.897e3	0.944	1.17	1.24	46.6	YES	NO	bb	bb	0.604
30 OCDD	44.71	5.220e4	6.285e4	0.984	0.83	0.89	964.2	YES	NO	bb	bd	31.453
31 1234678-HpCDD	40.03	1.005e4	9.950e3	1.046	1.01	1.05	185.6	YES	NO	bb	bb	3.962
32 1234679-HPCDD	39.00	3.387e4	3.046e4	1.228	1.11	1.05	685.2	YES	NO	bb	bb	10.865

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TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	24.50	1.923e3	2.577e3	0.891	0.75	0.77	30.5	YES	NO	db	db	0.314
2 Total-tetraturans	24.35	7.980e2	1.126e3	0.891	0.71	0.77	17.2	YES	NO	dd	dd	0.134
3 Total-tetraturans	24.26	1.881e3	2.518e3	0.891	0.75	0.77	23.2	YES	NO	dd	dd	0.307
4 Total-tetraturans	23.84	8.733e2	1.348e3	0.891	0.65	0.77	19.0	YES	YES	db	db	0.155
5 Total-tetraturans	23.71	4.910e2	6.849e2	0.891	0.72	0.77	7.7	YES	NO	dd	dd	0.082
6 Total-tetraturans	23.59	1.019e3	1.547e3	0.891	0.66	0.77	18.6	YES	NO	bd	dd	0.179
7 Total-tetraturans	23.43	8.969e2	1.186e3	0.891	0.76	0.77	14.9	YES	NO	db	dd	0.145
8 Total-tetraturans	23.34	9.426e2	1.140e3	0.891	0.83	0.77	18.2	YES	NO	dd	dd	0.145
9 Total-tetraturans	23.25	1.286e3	2.052e3	0.891	0.63	0.77	24.3	YES	YES	dd	dd	0.233
10 Total-tetraturans	23.13	2.976e3	3.891e3	0.891	0.76	0.77	40.8	YES	NO	dd	dd	0.479
11 Total-tetraturans	22.94	1.584e3	2.187e3	0.891	0.72	0.77	21.4	YES	NO	bd	bd	0.263
12 Total-tetraturans	22.37	6.672e2	9.656e2	0.891	0.69	0.77	14.4	YES	NO	bb	bb	0.114
13 1368-TCDF	22.10	9.266e2	1.732e3	1.020	0.53	0.77	17.9	YES	YES	bb	bb	0.162
14 Total-tetraturans	26.99	5.800e2	4.316e2	0.891	1.34	0.77	8.9	YES	YES	bd	bd	0.071
15 Total-tetraturans	25.83	1.459e3	1.723e3	0.891	0.85	0.77	29.5	YES	NO	db	db	0.222
16 Total-tetraturans	25.72	3.710e2	4.063e2	0.891	0.91	0.77	7.2	YES	YES	dd	bd	0.054
17 2378-TCDF	25.60	1.285e3	1.574e3	0.834	0.82	0.77	22.4	YES	NO	bd	bb	0.213
18 Total-tetraturans	25.42	3.843e2	5.028e2	0.891	0.76	0.77	10.0	YES	NO	db	db	0.062
19 Total-tetraturans	25.38	7.371e2	8.597e2	0.891	0.86	0.77	13.3	YES	NO	dd	dd	0.111
20 Total-tetraturans	25.09	4.264e2	6.945e2	0.891	0.61	0.77	7.1	YES	YES	bd	bd	0.078
21 Total-tetraturans	24.92	8.647e2	1.055e3	0.891	0.82	0.77	16.6	YES	NO	bb	bb	0.134
22 Total-tetraturans	24.70	1.714e3	2.162e3	0.891	0.79	0.77	34.1	YES	NO	bb	bb	0.270
23 Total-pentaturans	29.39	9.494e2	5.342e2	0.903	1.78	1.55	6.7	YES	NO	bd	bd	0.134
24 Total-pentaturans	28.68	1.797e3	7.462e2	0.903	2.41	1.55	19.1	YES	YES	db	db	0.230
25 Total-pentaturans	28.61	2.102e3	1.027e3	0.903	2.05	1.55	21.4	YES	YES	dd	dd	0.283
26 Total-pentaturans	28.49	7.527e2	3.641e2	0.903	2.07	1.55	5.9	YES	YES	MM	MM	0.101
27 23478-PeCDF	31.12	7.299e2	4.918e2	0.944	1.48	1.55	6.2	YES	NO	bb	bb	0.107
28 Total-pentaturans	30.86	4.217e2	2.101e2	0.903	2.01	1.55	4.4	YES	YES	bd	dd	0.057
29 Total-pentaturans	29.96	5.203e2	4.451e2	0.903	1.17	1.55	5.4	YES	YES	bb	bd	0.087
30 12378-PeCDF	29.76	9.897e2	7.798e2	0.852	1.27	1.55	10.1	YES	YES	bb	bb	0.168
31 Total-hexaturans	33.28	2.313e3	1.707e3	0.972	1.35	1.24	62.0	YES	NO	bb	db	0.529
32 123468-HxCDF	33.05	8.508e2	7.428e2	1.051	1.15	1.24	27.5	YES	NO	bb	bd	0.196
33 123789-HxCDF	36.82	1.855e2	2.440e2	0.938	0.76	1.24	7.7	YES	YES	bb	bb	0.064
34 234678-HxCDF	35.87	4.602e2	3.385e2	0.991	1.36	1.24	10.0	YES	NO	bb	bb	0.104
35 123678-HxCDF	34.96	3.887e2	3.630e2	0.917	1.07	1.24	9.4	YES	NO	db	db	0.095
36 123478-HxCDF	34.79	4.534e2	4.076e2	0.963	1.11	1.24	12.9	YES	NO	bd	bd	0.116
37 Total-hexaturans	34.64	2.637e2	1.176e2	0.972	2.24	1.24	8.4	YES	YES	bb	bb	0.050

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TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexafurans	34.14	1.957e3	1.503e3	0.972	1.30	58.6	YES	NO	bb	bb	0.455
39	1234789-HpCDF	40.76	2.254e2	1.410e2	1.162	1.05	6.7	YES	YES	bb	MM	0.058
40	Total-heptafurans	39.21	4.548e3	3.912e3	1.141	1.05	126.9	YES	NO	bb	bb	1.225
41	1234678-HpCDF	38.54	3.056e3	3.292e3	1.119	1.05	86.4	YES	NO	bb	bb	0.847
42	OCDF	44.94	3.082e3	3.105e3	1.145	0.89	199.6	YES	NO	MM	bb	1.453
43	Total-penta1	27.02	4.481e3	3.013e3	0.982	1.49	295.4	YES	NO	bb	bb	0.660
44	Total-tetradiioxins	25.57	1.742e2	1.441e2	0.982	1.21	0.77	4.5	YES	db	db	0.036
45	Total-tetradiioxins	25.44	6.793e2	7.761e2	0.982	0.88	0.77	17.5	YES	NO	bd	0.164
46	Total-tetradiioxins	25.23	3.059e2	3.318e2	0.982	0.92	0.77	6.7	YES	YES	db	0.072
47	Total-tetradiioxins	25.10	1.456e2	8.593e1	0.982	1.69	0.77	4.9	YES	YES	bd	0.026
48	Total-tetradiioxins	24.85	1.204e3	1.476e3	0.982	0.82	0.77	32.1	YES	NO	bb	0.302
49	Total-tetradiioxins	24.58	1.014e3	1.107e3	0.982	0.92	0.77	27.7	YES	YES	bb	0.239
50	Total-tetradiioxins	23.85	2.056e2	3.863e2	0.982	0.53	0.77	6.9	YES	YES	bb	0.067
51	Total-tetradiioxins	23.64	3.607e3	5.005e3	0.982	0.72	0.77	93.4	YES	NO	bd	0.971
52	1368-TCDD	23.37	7.047e3	8.423e3	1.026	0.84	0.77	200.3	YES	NO	bb	1.670
53	Total-tetradiioxins	26.37	2.984e2	3.351e2	0.982	0.89	0.77	6.7	YES	YES	db	0.071
54	2378-TCDD	26.25	2.097e2	6.719e2	0.982	0.31	0.77	4.2	YES	YES	MM	0.099
55	Total-tetradiioxins	25.88	1.090e3	1.129e3	0.982	0.97	0.77	22.5	YES	YES	bb	0.250
56	12378-PeCDD	31.36	6.314e2	3.570e2	1.029	1.77	1.55	13.1	YES	NO	MM	0.153
57	Total-pentadiioxins	30.68	1.096e3	6.695e2	1.387	1.64	1.55	24.3	YES	NO	bb	0.202
58	Total-pentadiioxins	30.28	4.302e2	3.329e2	1.387	1.29	1.55	8.4	YES	YES	db	0.087
59	Total-pentadiioxins	30.11	2.026e3	1.458e3	1.387	1.39	1.55	45.9	YES	NO	dd	0.399
60	Total-pentadiioxins	29.98	5.595e2	3.294e2	1.387	1.70	1.55	12.8	YES	NO	bd	0.102
61	Total-pentadiioxins	29.76	3.173e3	1.990e3	1.387	1.59	1.55	79.5	YES	NO	bb	0.592
62	Total-pentadiioxins	29.15	1.655e2	1.454e2	1.387	1.14	1.55	5.8	YES	YES	bb	0.036
63	12479-PECDD	28.66	4.266e3	2.849e3	1.807	1.50	1.55	62.4	YES	NO	MM	0.626
64	123789-HxCDD	36.45	6.856e2	5.747e2	0.918	1.19	1.24	15.6	YES	NO	bb	0.191
65	Total-hexadiioxins	36.26	3.005e2	1.943e2	0.944	1.55	1.24	7.8	YES	YES	bb	0.073
66	123678-HxCDD	36.09	1.661e3	1.139e3	0.904	1.46	1.24	32.9	YES	YES	db	0.423
67	123478-HxCDD	35.99	2.960e2	2.451e2	0.921	1.21	1.24	7.5	YES	NO	bd	0.083
68	Total-hexadiioxins	35.15	4.019e2	3.796e2	0.944	1.06	1.24	7.2	YES	NO	db	0.115
69	Total-hexadiioxins	35.06	5.349e3	4.229e3	0.944	1.26	1.24	73.9	YES	NO	bd	1.409
70	Total-hexadiioxins	34.67	5.367e3	4.015e3	0.944	1.34	1.24	114.9	YES	NO	bd	1.380
71	124679-HxCDD	33.85	3.099e3	2.533e3	1.031	1.22	1.24	59.6	YES	NO	bb	0.770
72	Total-hexadiioxins	33.60	2.211e3	1.897e3	0.944	1.17	1.24	46.6	YES	NO	bb	0.604
73	OCDD	44.71	5.220e4	6.285e4	0.984	0.83	0.89	964.2	YES	NO	bb	31.453
74	1234678-HpCDD	40.03	1.005e4	9.950e3	1.046	1.01	1.05	185.6	YES	NO	bb	3.962

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

75	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	1234679-HPCDD	39.00	3.387e4	3.046e4	1.228	1.11	1.05	685.2	YES	NO	bb	bb	10.865

PFK1

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	FUNCTION1 PFK	27.19	1.175e5					1.8	NO		bb		
	FUNCTION1 PFK	26.19	1.953e4					1.5	NO		bb		
	FUNCTION1 PFK	24.09	1.753e4					1.2	NO		bb		
	FUNCTION1 PFK	24.03	2.821e4					2.2	NO		bb		
	FUNCTION1 PFK	21.52	1.546e6					6.8	YES		bb		
	FUNCTION1 PFK	21.07	4.986e5					9.2	YES		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.08	5.179e3					1.3	NO		dd		0.000
2	FUNCTION2 PFK	28.04	7.605e3					2.0	NO		bd		0.000
3	FUNCTION2 PFK	28.00	3.940e3					1.8	NO		bb		0.000
4	FUNCTION2 PFK	30.38	5.347e3					1.1	NO		bb		0.000
5	FUNCTION2 PFK	30.21	1.516e4					1.6	NO		bb		0.000
6	FUNCTION2 PFK	30.14	3.492e3					0.9	NO		bb		0.000
7	FUNCTION2 PFK	29.97	9.626e3					1.7	NO		bb		0.000
8	FUNCTION2 PFK	29.85	1.174e4					1.5	NO		bb		0.000
9	FUNCTION2 PFK	29.76	5.468e3					1.2	NO		bb		0.000
10	FUNCTION2 PFK	29.50	1.418e4					1.8	NO		db		0.000
11	FUNCTION2 PFK	29.42	1.344e4					1.8	NO		dd		0.000
12	FUNCTION2 PFK	29.36	4.098e4					2.8	NO		dd		0.000
13	FUNCTION2 PFK	29.28	2.301e4					2.7	NO		dd		0.000
14	FUNCTION2 PFK	29.19	2.050e4					2.5	NO		bd		0.000
15	FUNCTION2 PFK	29.08	1.904e4					2.0	NO		bb		0.000
16	FUNCTION2 PFK	28.73	1.009e4					1.7	NO		bb		0.000
17	FUNCTION2 PFK	28.22	7.000e3					1.6	NO		bb		0.000
18	FUNCTION2 PFK	28.17	8.123e3					1.6	NO		db		0.000
19	FUNCTION2 PFK	28.12	8.340e3					1.8	NO		dd		0.000
20	FUNCTION2 PFK	32.61	1.954e5					0.0	NO		bb		0.000
21	FUNCTION2 PFK	32.10	7.095e5					10.8	YES		db		0.000
22	FUNCTION2 PFK	32.02	1.206e5					9.0	YES		dd		0.000
23	FUNCTION2 PFK	31.87	1.289e5					5.9	YES		dd		0.000
24	FUNCTION2 PFK	31.83	4.526e4					5.1	YES		dd		0.000
25	FUNCTION2 PFK	31.74	4.531e4					3.4	YES		dd		0.000
26	FUNCTION2 PFK	31.70	1.176e4					2.1	NO		bd		0.000
27	FUNCTION2 PFK	31.25	9.236e3					1.3	NO		bb		0.000
28	FUNCTION2 PFK	30.88	1.011e4					1.7	NO		bb		0.000
29	FUNCTION2 PFK	30.75	5.332e3					0.8	NO		bb		0.000
30	FUNCTION2 PFK	30.60	3.962e3					1.0	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	32.84	5.394e3				1.1	NO		db		0.000
2	FUNCTION3 PFK	32.82	5.399e3				0.6	NO		dd		0.000
3	FUNCTION3 PFK	32.75	1.210e4				2.5	NO		bd		0.000
4	FUNCTION3 PFK	32.69	7.346e3				1.3	NO		bb		0.000
5	FUNCTION3 PFK	34.21	8.744e3				1.4	NO		bd		0.000
6	FUNCTION3 PFK	34.13	9.678e3				1.5	NO		db		0.000
7	FUNCTION3 PFK	34.07	3.603e3				0.9	NO		dd		0.000
8	FUNCTION3 PFK	34.03	1.863e3				0.6	NO		bd		0.000
9	FUNCTION3 PFK	33.81	9.805e3				1.5	NO		bb		0.000
10	FUNCTION3 PFK	33.77	3.323e3				0.7	NO		db		0.000
11	FUNCTION3 PFK	33.73	5.402e3				1.2	NO		dd		0.000
12	FUNCTION3 PFK	33.68	6.783e3				1.1	NO		bd		0.000
13	FUNCTION3 PFK	33.59	1.142e4				1.4	NO		bb		0.000
14	FUNCTION3 PFK	33.53	1.019e4				1.2	NO		bb		0.000
15	FUNCTION3 PFK	33.42	3.595e3				1.0	NO		bb		0.000
16	FUNCTION3 PFK	33.34	1.639e3				0.5	NO		bb		0.000
17	FUNCTION3 PFK	33.31	2.653e3				0.7	NO		bb		0.000
18	FUNCTION3 PFK	33.13	8.714e2				0.4	NO		bb		0.000
19	FUNCTION3 PFK	33.10	9.828e2				0.5	NO		bb		0.000
20	FUNCTION3 PFK	32.95	5.849e3				1.0	NO		bb		0.000
21	FUNCTION3 PFK	35.81	2.530e4				2.9	NO		db		0.000
22	FUNCTION3 PFK	35.76	1.985e4				2.5	NO		bd		0.000
23	FUNCTION3 PFK	35.55	5.841e3				1.1	NO		db		0.000
24	FUNCTION3 PFK	35.51	4.262e3				1.0	NO		bd		0.000
25	FUNCTION3 PFK	35.45	1.048e4				1.5	NO		db		0.000
26	FUNCTION3 PFK	35.38	1.043e4				1.5	NO		dd		0.000
27	FUNCTION3 PFK	35.35	6.637e3				1.2	NO		bd		0.000
28	FUNCTION3 PFK	35.29	1.082e4				1.5	NO		db		0.000
29	FUNCTION3 PFK	35.19	4.638e3				0.9	NO		bd		0.000
30	FUNCTION3 PFK	35.15	2.862e3				0.8	NO		bb		0.000
31	FUNCTION3 PFK	34.89	1.490e4				1.2	NO		bb		0.000
32	FUNCTION3 PFK	34.70	2.518e3				0.5	NO		bb		0.000
33	FUNCTION3 PFK	34.62	1.881e4				2.0	NO		db		0.000
34	FUNCTION3 PFK	34.54	1.546e4				1.8	NO		bd		0.000
35	FUNCTION3 PFK	34.38	3.036e3				0.9	NO		bb		0.000
36	FUNCTION3 PFK	34.29	5.090e3				1.1	NO		db		0.000
37	FUNCTION3 PFK	37.63	2.142e3				0.6	NO		bb		0.000

Quantify Totals Report MassLynx V4.1 SCN909
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PFK3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION3 PFK	37.14	3.536e4					2.9	NO		db		0.000
FUNCTION3 PFK	37.07	2.365e4					3.7	YES		dd		0.000
FUNCTION3 PFK	37.00	4.013e4					4.1	YES		dd		0.000
FUNCTION3 PFK	36.92	2.272e5					6.2	YES		bd		0.000
FUNCTION3 PFK	36.67	2.075e5					7.9	YES		db		0.000
FUNCTION3 PFK	36.43	7.010e4					1.8	NO		bd		0.000
FUNCTION3 PFK	36.31	2.857e3					0.6	NO		db		0.000
FUNCTION3 PFK	36.27	3.615e3					0.8	NO		bd		0.000
FUNCTION3 PFK	36.21	4.679e3					0.9	NO		bb		0.000
FUNCTION3 PFK	35.95	1.843e4					1.4	NO		bb		0.000

PFK4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

PFK5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION5 PFK	45.60	3.956e3					1.8	NO		bb		

ETHERS1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 HXCD ...	24.82	1.223e2					14.2	YES		bb		0.000
FUNCTION1 HXCD ...	25.68	1.286e4					1134.9	YES		bb		0.000
FUNCTION1 HXCD ...	25.41	5.865e2					41.7	YES		bb		0.000

ETHERS2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 HPCD ...	21.89	2.534e2					11.6	YES		bb		0.000
FUNCTION1 HPCD ...	20.75	1.226e2					5.7	YES		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.39	7.131e1				4.7	YES		bb		0.000
2	FUNCTION2 HPCD...	29.71	1.474e2				5.9	YES		bb		0.000
3	FUNCTION2 HPCD...	29.40	2.016e2				6.5	YES		bb		0.000

ETHERS4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

ETHERS5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.89	7.424e1				10.6	YES		bb		0.000
2	FUNCTION4 NCDPE	38.21	1.809e3				119.7	YES		bb		0.000

ETHERS6

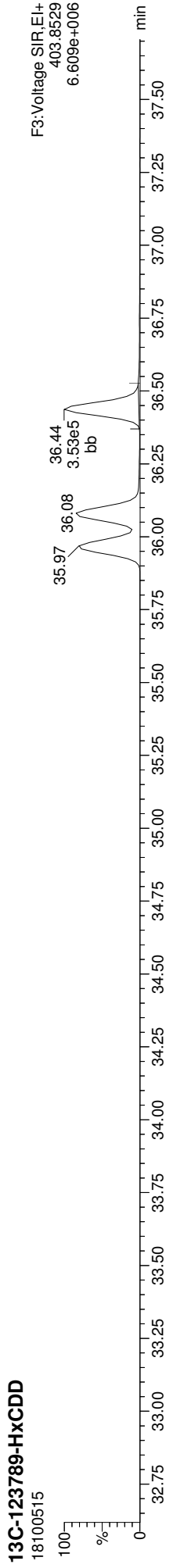
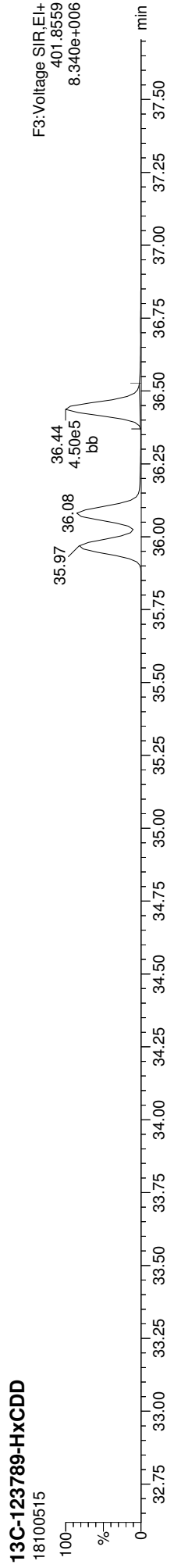
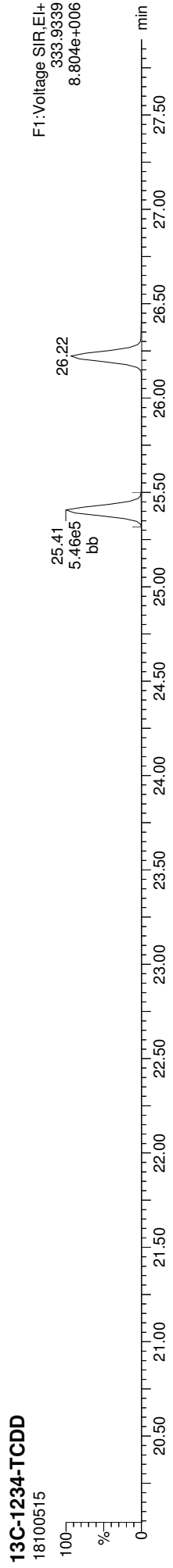
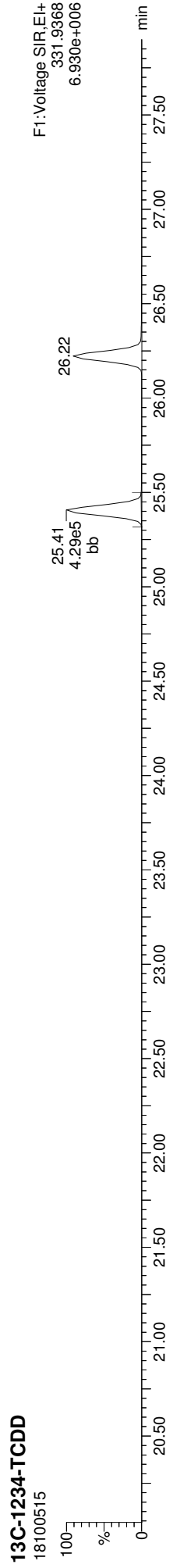
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1												

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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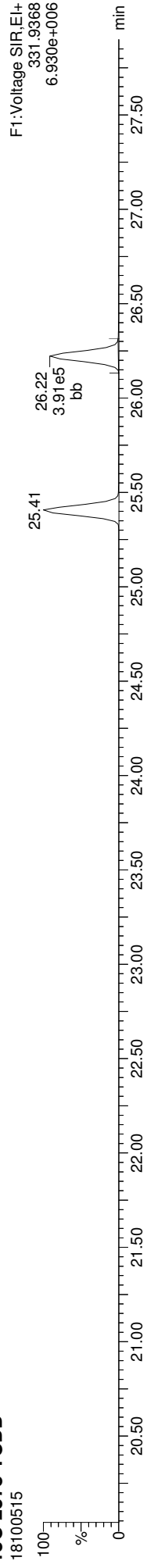
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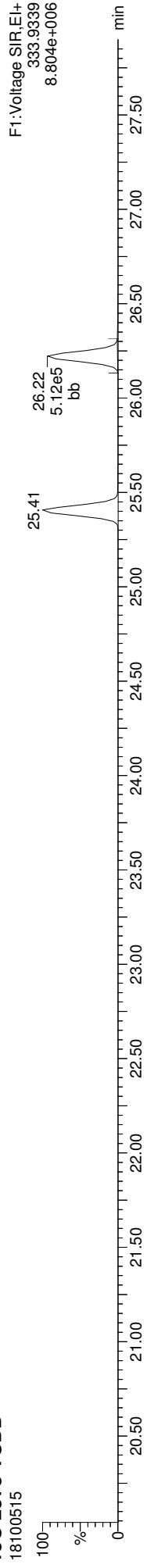
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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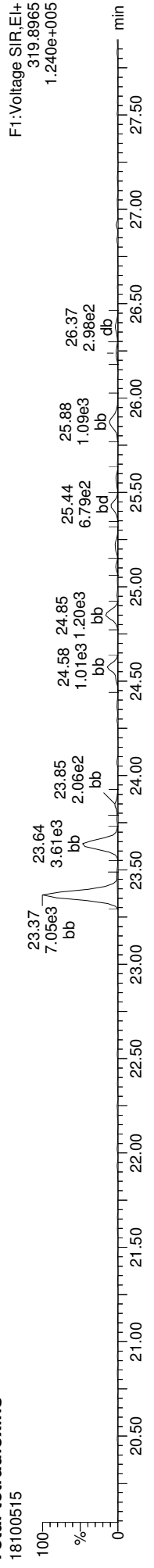
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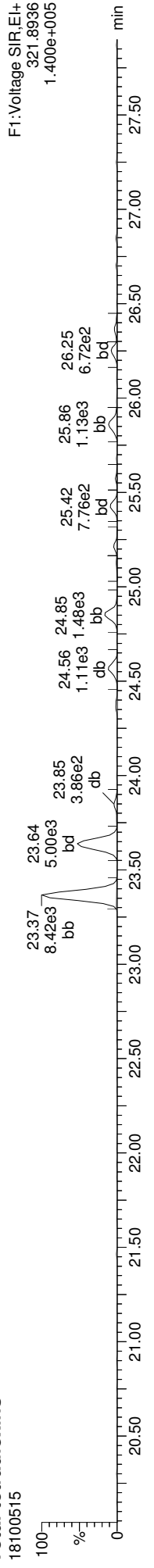
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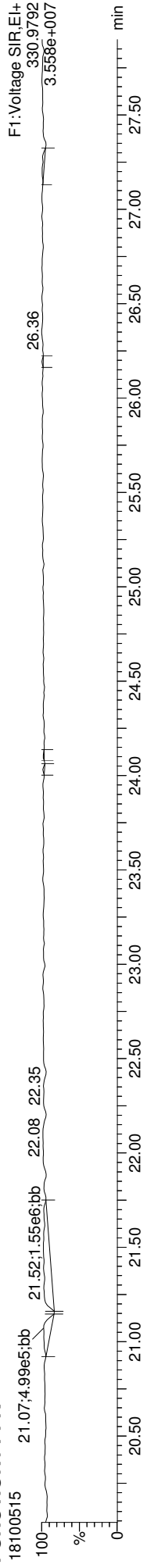
Total-tetradioxins



Total-tetradioxins



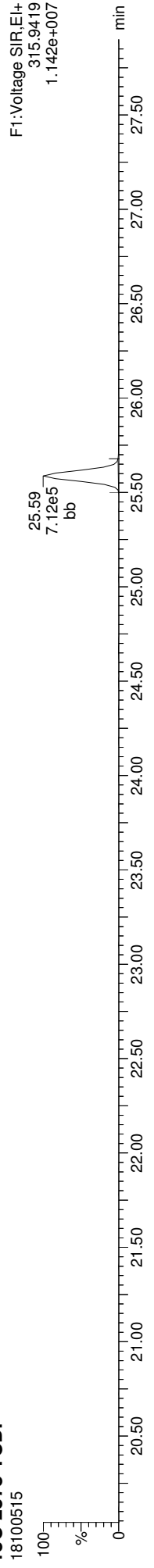
FUNCTION1 PFK



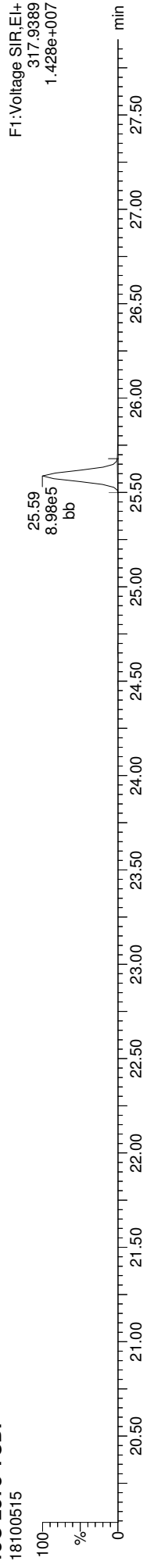
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MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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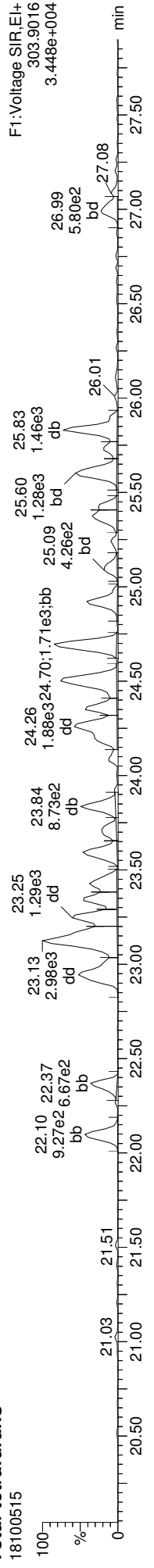
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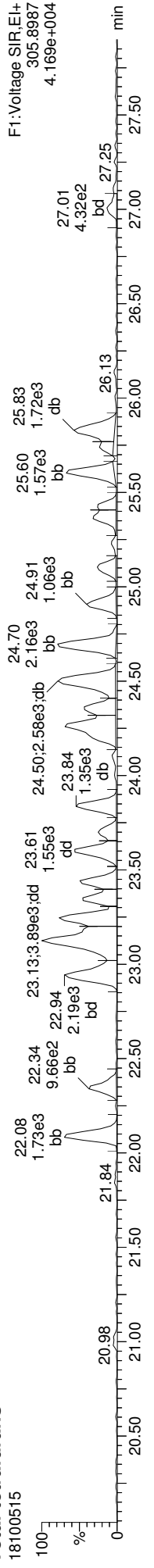
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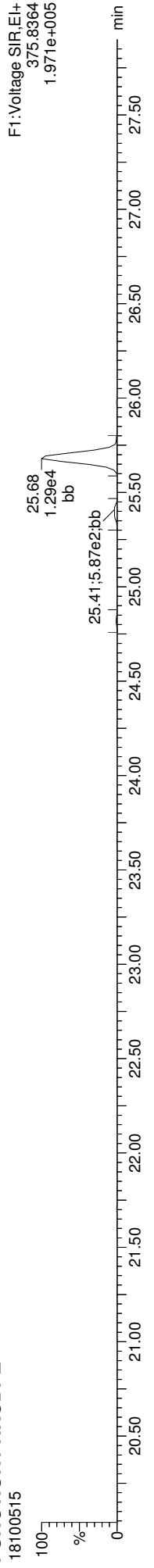
Total-tetrafurans



Total-tetrafurans



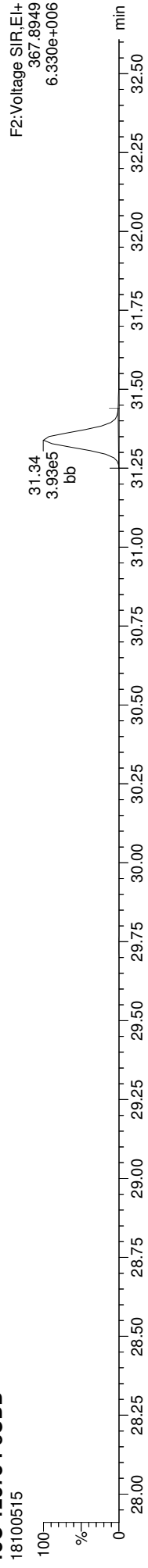
FUNCTION1 HXCDFE



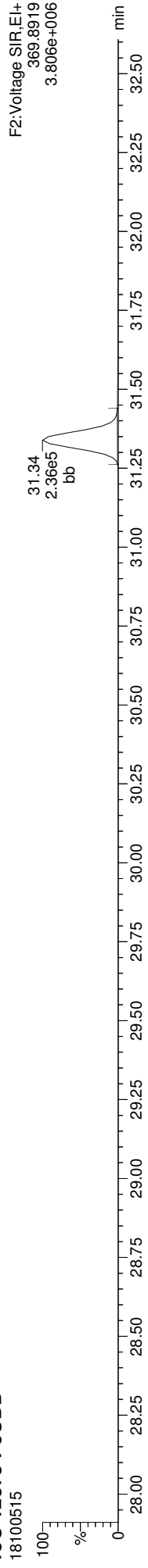
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MassLynx MassLynx V4.1 SCN909
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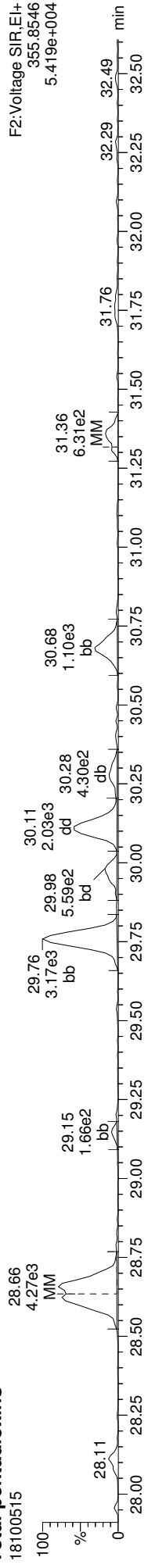
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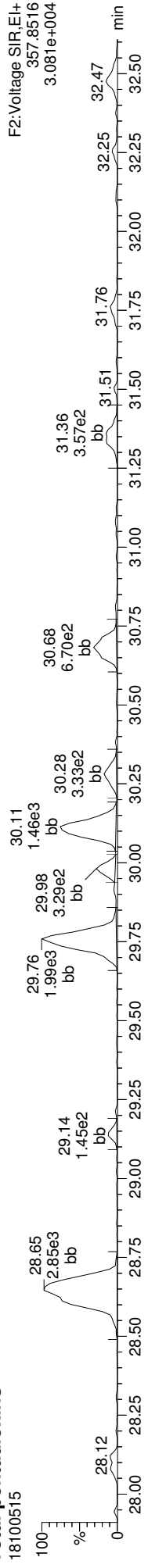
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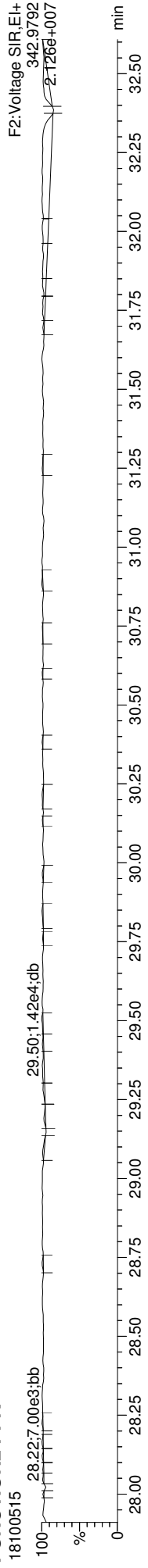
Total-pentadioxins



Total-pentadioxins



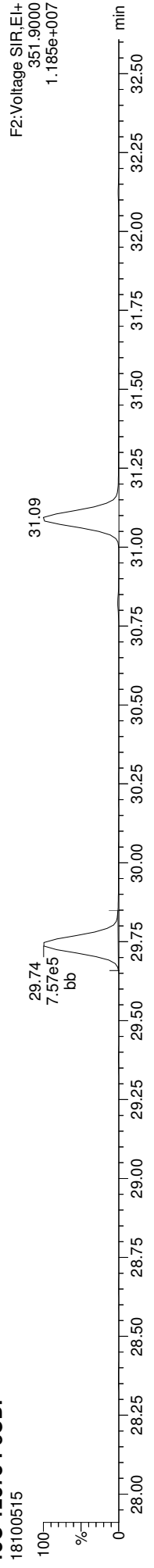
FUNCTION2 PFK



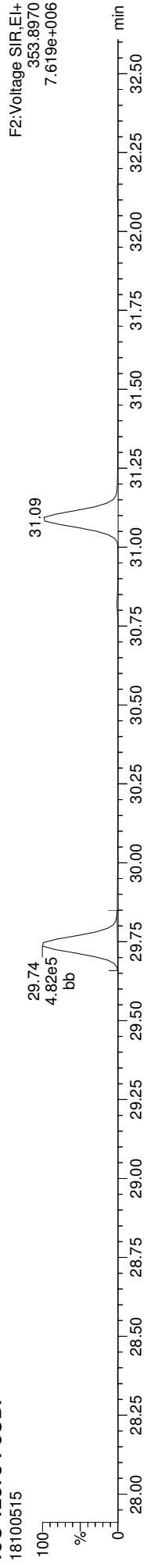
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

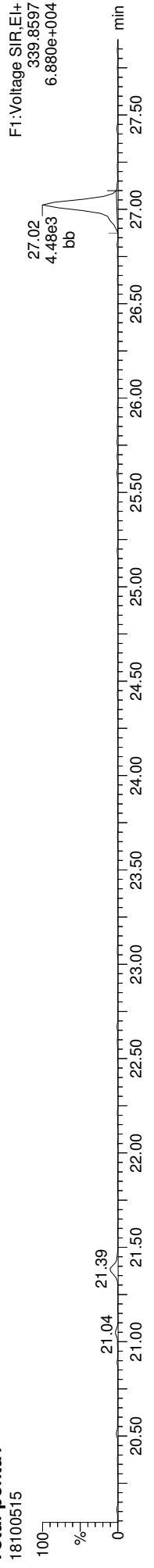
13C-12378-PeCDF



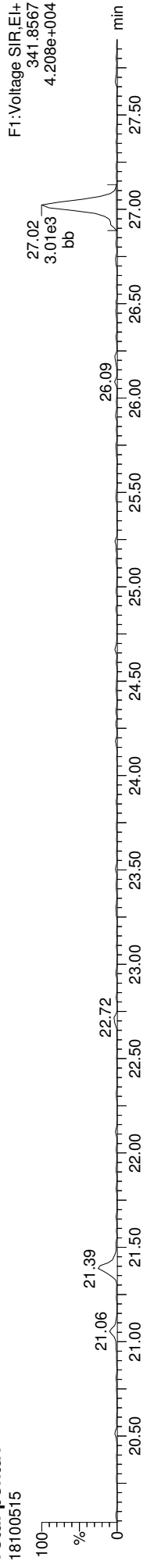
13C-12378-PeCDF



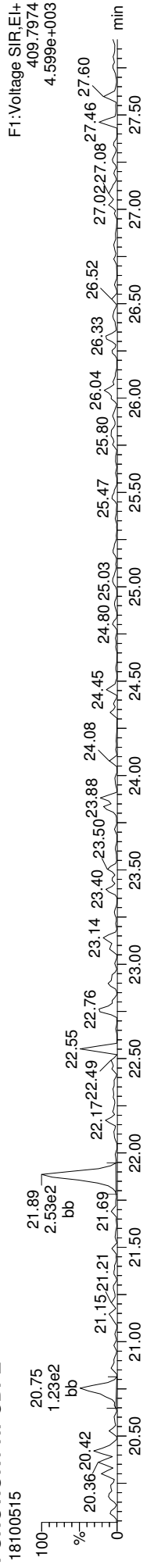
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

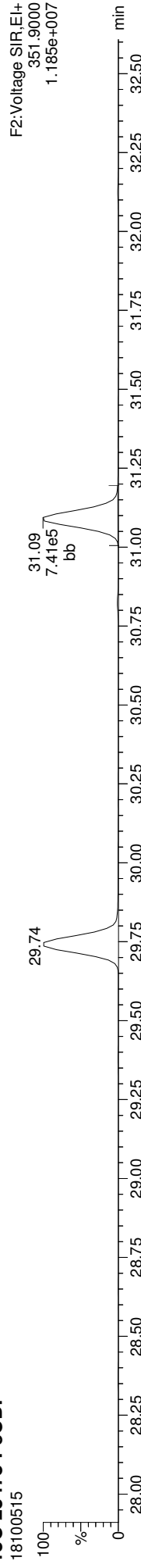


Quantify Sample Report
MassLynx MassLynx V4.1 SCN909

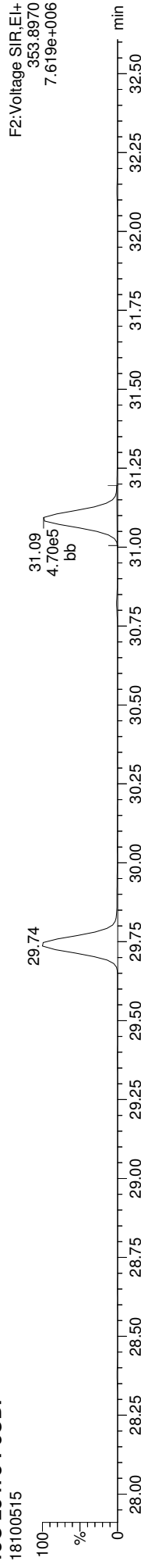
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

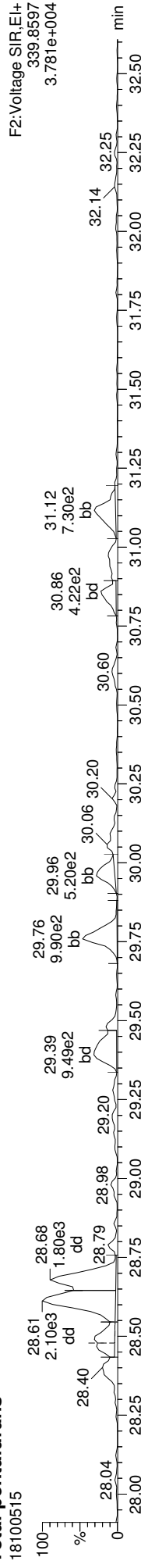
13C-23478-PeCDF



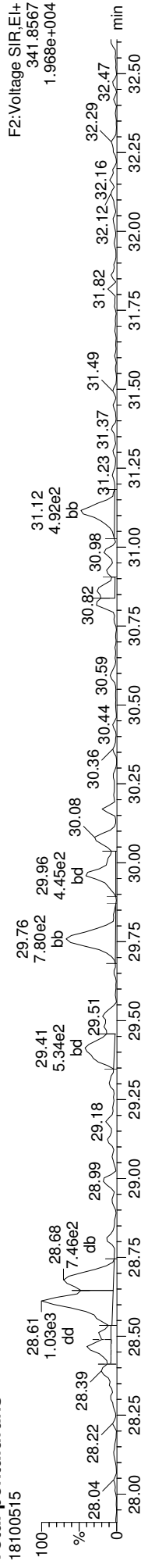
13C-23478-PeCDF



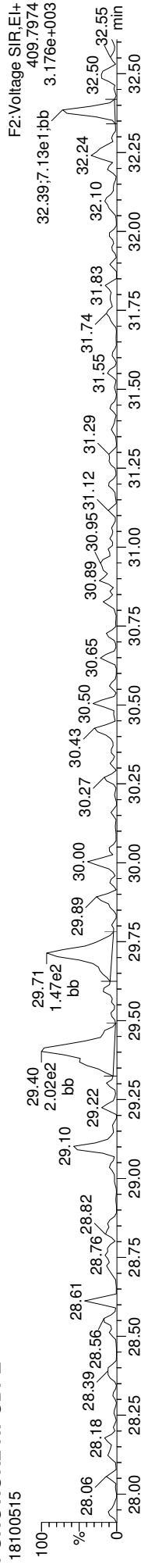
Total-pentafurans



Total-pentafurans



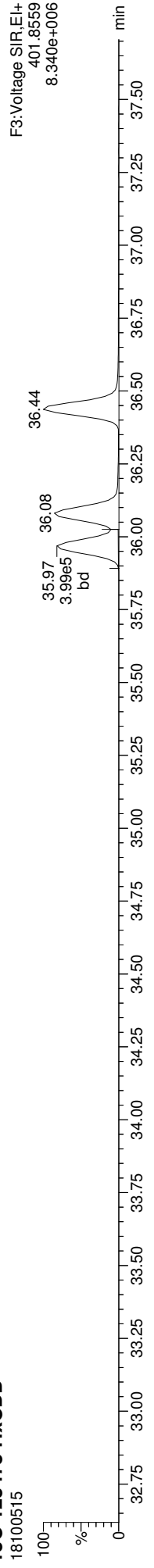
FUNCTION2 HPCDFE



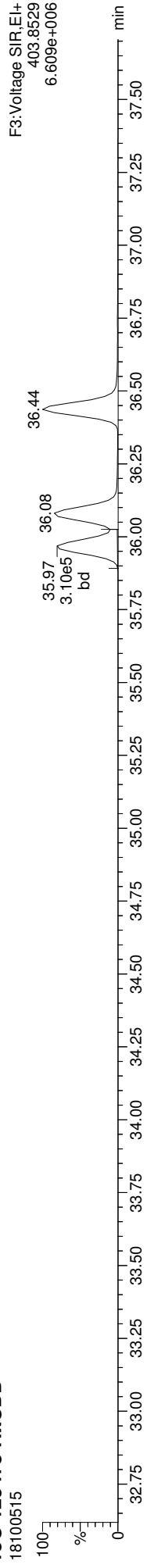
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

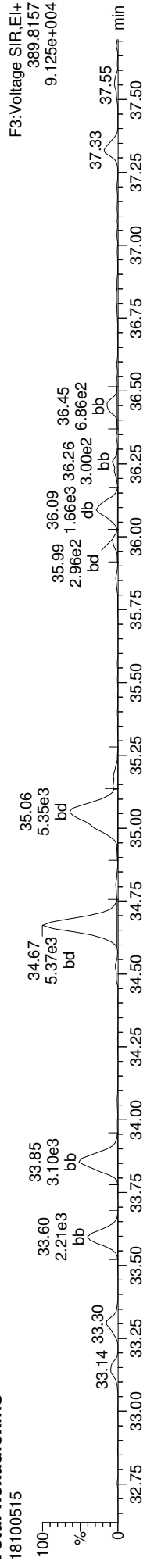
13C-123478-HxCDD



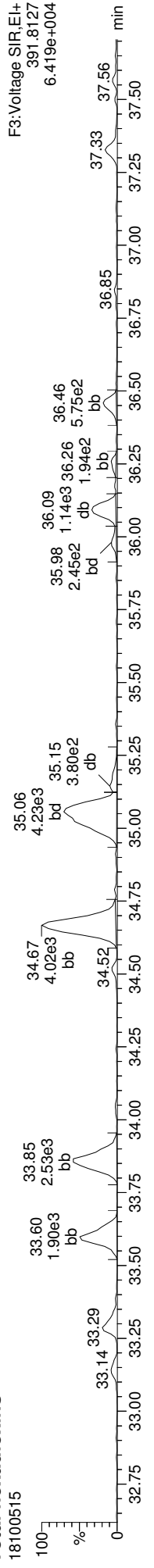
13C-123478-HxCDD



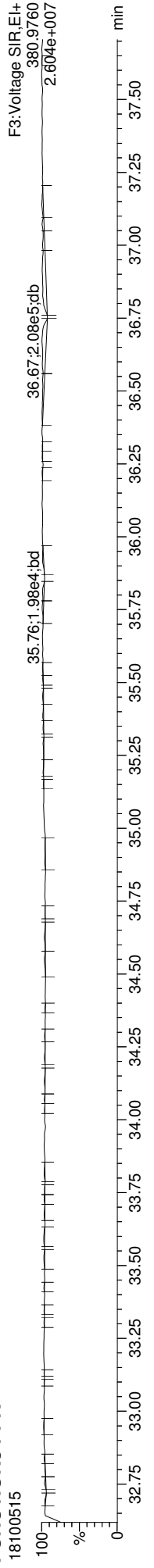
Total-hexadioxins



Total-hexadioxins



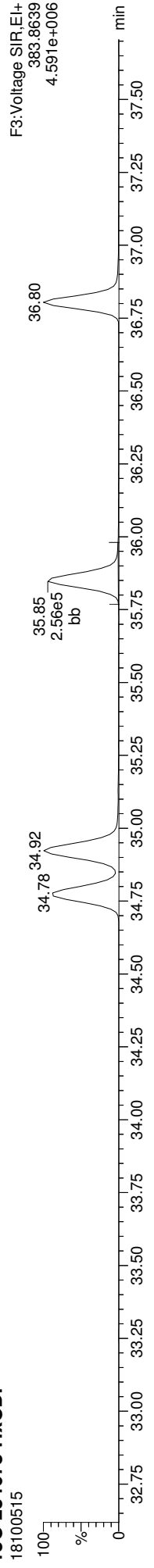
FUNCTION3 PFK



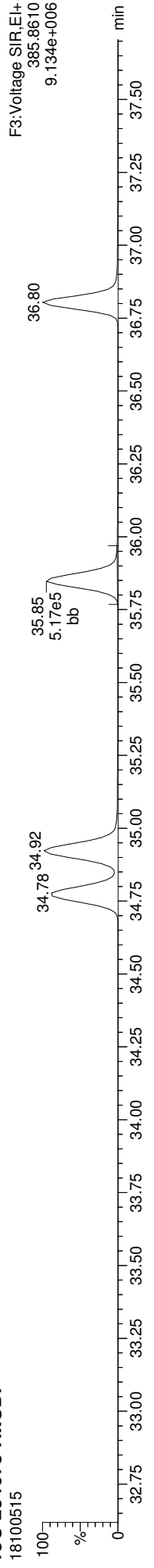
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

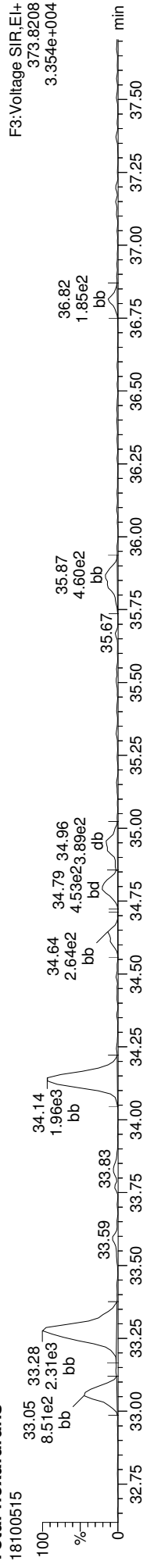
13C-234678-HxCDF



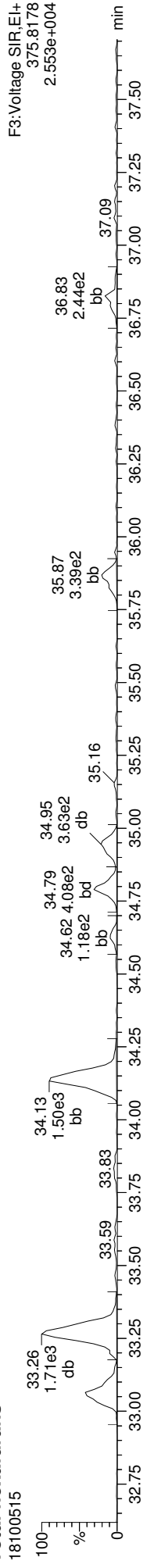
13C-234678-HxCDF



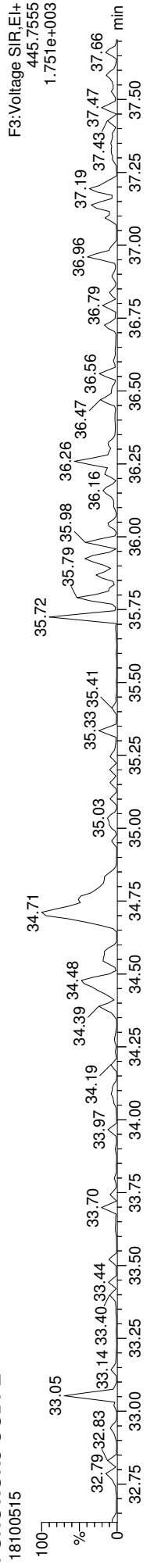
Total-hexafurans



Total-hexafurans



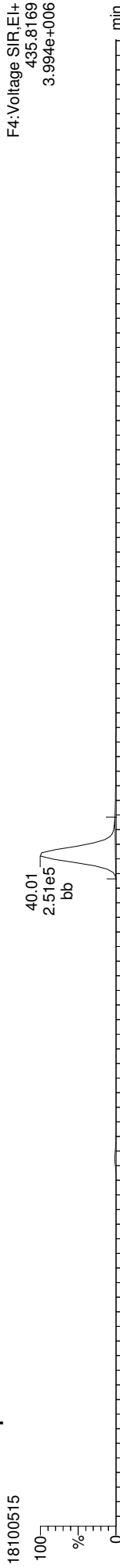
FUNCTION3 OCDPE



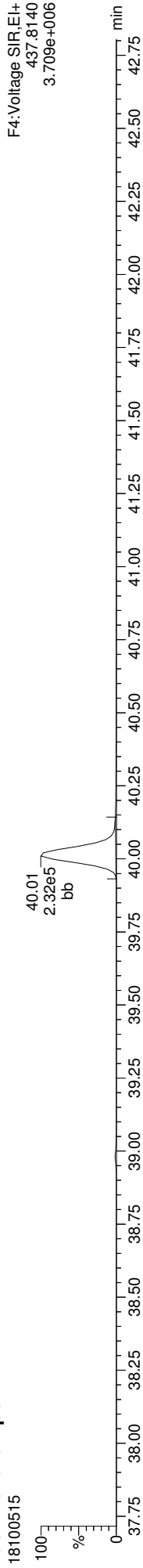
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

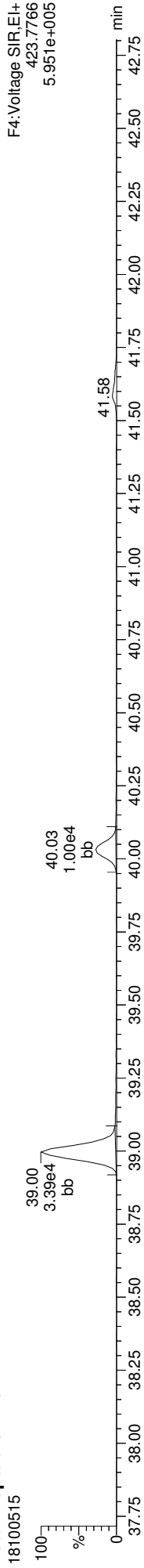
13C-1234678-HpCDD



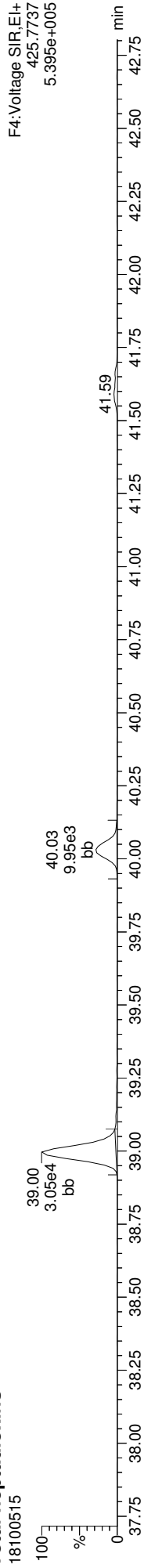
13C-1234678-HpCDD



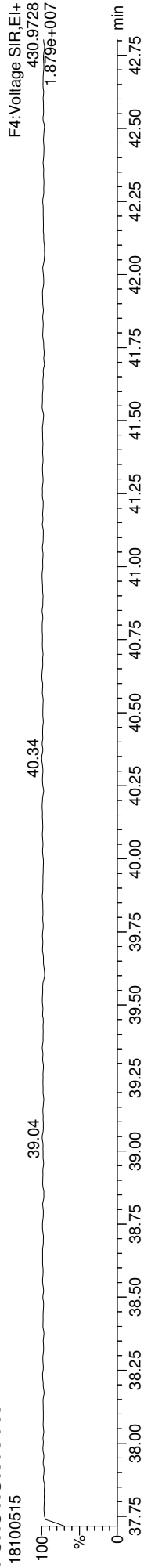
Total-heptadioxins



Total-heptadioxins



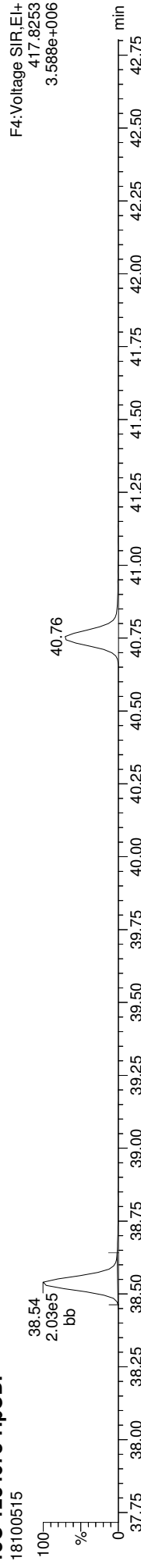
FUNCTION4 PFK



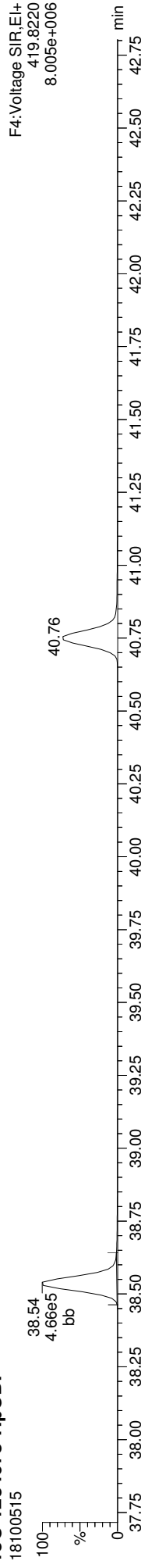
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

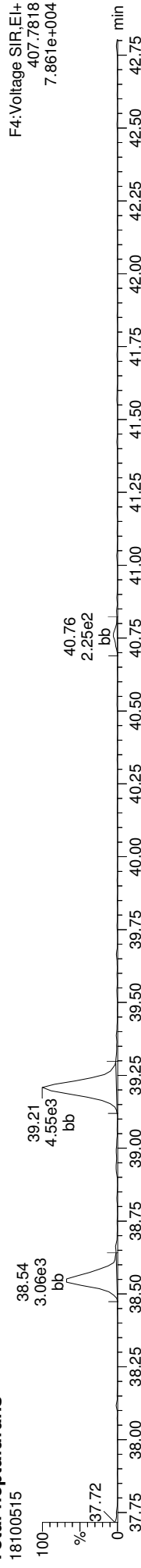
13C-1234678-HpCDF



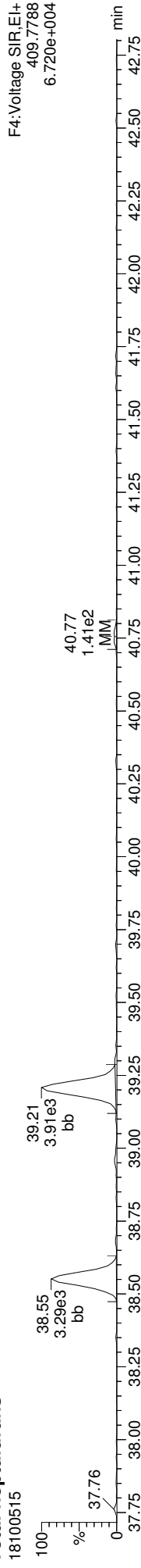
13C-1234678-HpCDF



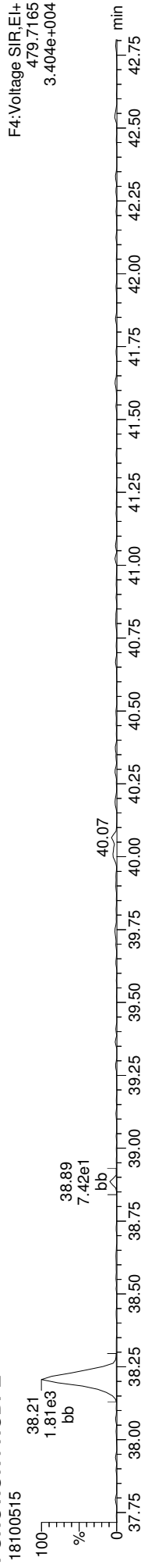
Total-heptafurans



Total-heptafurans



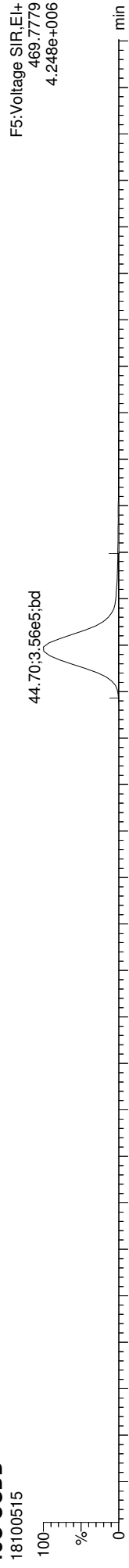
FUNCTION4 NCDPE



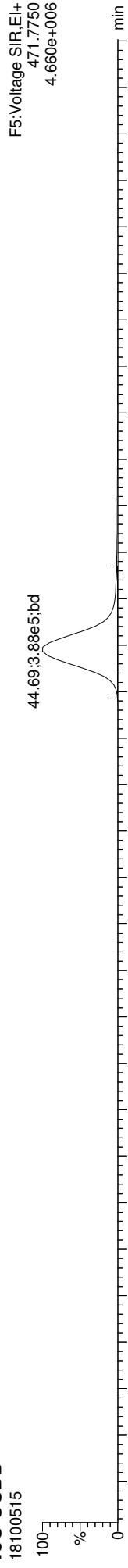
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

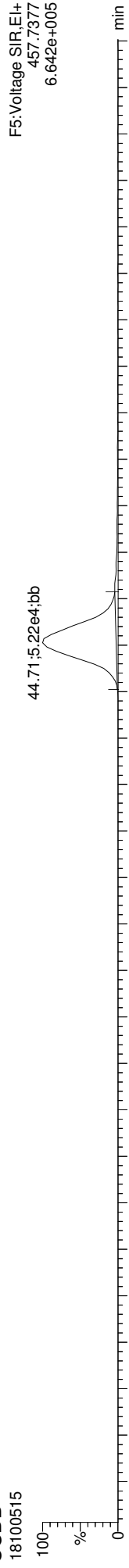
13C-OCDD



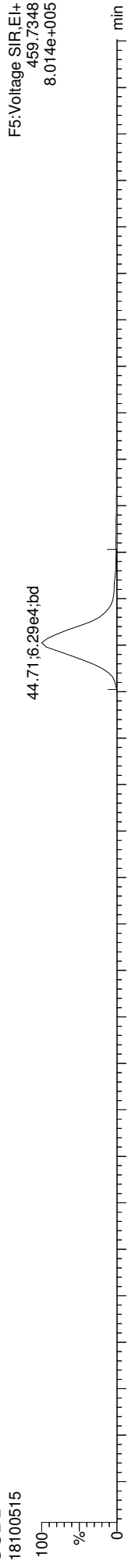
13C-OCDD



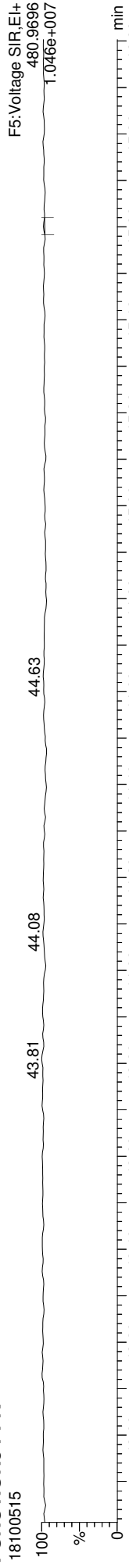
OCDD



OCDD



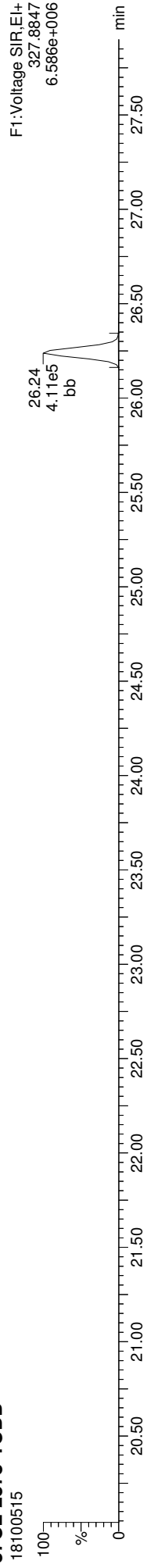
FUNCTION5 PFK



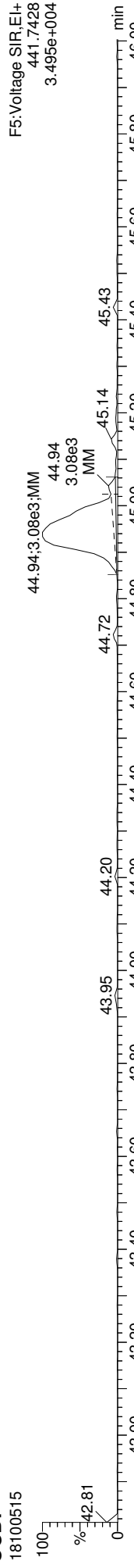
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:47 Pacific Daylight Time

ID: 1810285-05, Name: 18100515, Date: 05-Oct-2018, Time: 21:03:54, Conditions: AUTOSPEC01, User: PK

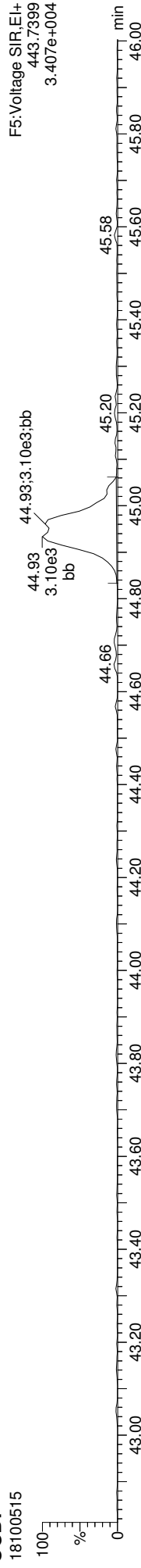
37CL-2378-TCDD



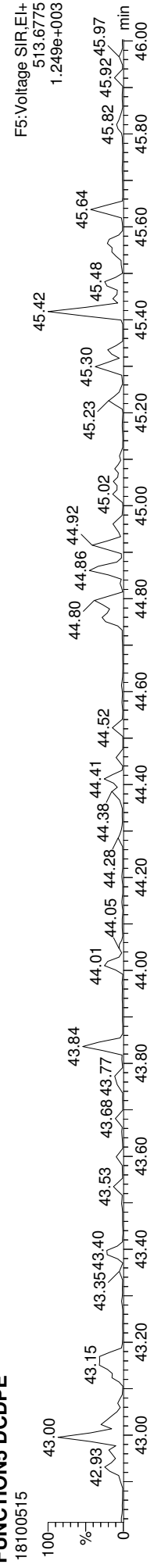
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 18I0285
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-06 File ID: 18100516
 Sampled: 09/18/18 16:35 Prepared: 10/02/18 16:00 Analyzed: 10/05/18 21:52
 % Solids: 78.01 Preparation: EPA 1613 Initial/Final: 12.89 g Wet / 20 uL
 Result Basis: Dry Sequence: SGJ0093 Calibration: BH00060
 Batch: BGI0793 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	1.009	0.655-0.886		0.994	0.204	ng/kg	EMPC, J
1746-01-6	2,3,7,8-TCDD	1	0.118	0.655-0.886		0.994	0.131	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.842	1.318-1.783		0.994	0.106	ng/kg	EMPC, J, B
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.042	0.994	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	2.915	1.318-1.783		0.994	0.142	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.031	0.994	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.031	0.994	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.031	0.994	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.065	1.054-1.426		0.994	0.057	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.108	1.054-1.426		0.994	0.059	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.170	1.054-1.426		0.994	0.294	ng/kg	J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.349	1.054-1.426		0.994	0.152	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.020	0.893-1.208		0.994	0.721	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.045	0.994	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.984	0.893-1.208		2.49	5.47	ng/kg	
39001-02-0	OCDF	1	1.138	0.757-1.024		1.99	1.56	ng/kg	EMPC, J
3268-87-9	OCDD	1	0.915	0.757-1.024		9.94	49.1	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.994	3.03	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.994	2.20	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.994	0.805	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.994	1.23	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.994	0.854	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.994	4.09	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.994	1.88	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.994	25.7	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.430
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.441



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>18I0285-06</u>
Sampled:	<u>09/18/18 16:35</u>	Prepared:	<u>10/02/18 16:00</u>
Solids Wt%:	<u>78.01</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SGJ0093</u>
Batch:	<u>BGI0793</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>18I00516</u>
		Analyzed:	<u>10/05/18 21:52</u>
		Initial/Final:	<u>12.89 g / 20 uL</u>
		Calibration:	<u>BH00060</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.789	0.655-0.886		111	24 - 169 %	
13C12-2,3,7,8-TCDD		0.770	0.655-0.886		99.1	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.577	1.318-1.783		104	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.555	1.318-1.783		99.6	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.679	1.318-1.783		92.3	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.494	0.434-0.587		105	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.495	0.434-0.587		107	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.497	0.434-0.587		101	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.495	0.434-0.587		104	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.286	1.054-1.426		103	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.247	1.054-1.426		102	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.438	0.374-0.506		99.4	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.428	0.374-0.506		102	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.094	0.893-1.208		96.6	23 - 140 %	
13C12-OCDD		0.880	0.757-1.024		74.1	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			114	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820\CIH.cdb 21 Aug 2018 11:13:54

ID: 1810285-06, **Name:** 18100516, **Date:** 05-Oct-2018, **Time:** 21:52:26, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.604	1.001	7.954e2	7.882e2	0.834	1.009	0.770	763	567	1.52e4	1.26e4	19.9	YES	YES	bd	bd	0.103
12378-PeCDF	29.759	1.001	4.303e2	2.336e2	0.852	1.842	1.550	701	745	7.66e3	3.76e3	10.9	NO	YES	bb	MM	0.053
23478-PeCDF					0.944		1.550	701	745								
123478-HxCDF					0.963		1.240	329	408								
234678-HxCDF					0.991		1.240	329	408								
123678-HxCDF					0.917		1.240	329	408								
123789-HxCDF	36.827	1.001	1.166e2	1.095e2	0.938	1.065	1.240	329	408	1.86e3	1.96e3	5.7	YES	NO	bb	db	0.029
1234678-HpCDF	38.553	1.001	1.584e3	1.553e3	1.119	1.020	1.050	595	271	2.71e4	2.77e4	45.6	YES	NO	bb	bb	0.362
1234789-HpCDF					1.162		1.050	595	271								
OCDF	44.934	1.005	1.984e3	1.744e3	1.145	1.138	0.890	390	488	2.66e4	2.22e4	68.2	YES	YES	bb	bb	0.783
2378-TCDD	26.223	1.000	7.131e1	6.043e2	0.982	0.118	0.770	453	297	1.51e3	1.07e4	3.3	YES	YES	bb	bd	0.066
12378-PeCDD	31.340	1.000	4.020e2	1.379e2	1.029	2.915	1.550	442	298	6.96e3	2.31e3	15.7	YES	YES	bb	MM	0.071
123478-HxCDD	35.970	1.000	1.182e2	1.067e2	0.921	1.108	1.240	704	611	2.71e3	3.27e3	3.8	YES	NO	bd	bd	0.030
123678-HxCDD	36.092	1.000	6.021e2	5.144e2	0.904	1.170	1.240	704	611	1.05e4	9.56e3	14.9	YES	NO	dd	db	0.148
123789-HxCDD	36.460	1.010	3.346e2	2.480e2	0.918	1.349	1.240	704	611	5.77e3	4.80e3	8.2	YES	NO	bb	db	0.077
1234678-HpCDD	40.022	1.000	8.003e3	8.133e3	1.046	0.984	1.050	879	659	1.28e5	1.31e5	145.1	YES	NO	bb	bd	2.749
OCDD	44.706	1.000	4.825e4	5.274e4	0.984	0.915	0.890	730	734	5.96e5	6.49e5	815.7	YES	NO	bb	bb	24.675
13C-2378-TCDF	25.588	1.007	8.156e5	1.033e6	1.847	0.789	0.770	2643	1143	1.31e7	1.65e7	4937.9	YES	NO	bb	bb	111.047
13C-12378-PeCDF	29.737	1.170	8.912e5	5.652e5	1.558	1.577	1.550	1889	1412	1.41e7	9.04e6	7460.9	YES	NO	bb	bb	103.717
13C-23478-PeCDF	31.083	1.223	8.437e5	5.427e5	1.544	1.555	1.550	1889	1412	1.33e7	8.57e6	7047.3	YES	NO	bb	bb	99.630
13C-123478-HxCDF	34.768	0.954	3.096e5	6.265e5	1.152	0.494	0.510	1723	1700	4.86e6	9.76e6	2822.8	YES	NO	bd	bd	104.803
13C-123678-HxCDF	34.924	0.959	3.349e5	6.769e5	1.225	0.495	0.510	1723	1700	5.09e6	1.00e7	2956.4	YES	NO	db	db	106.546
13C-234678-HxCDF	35.848	0.984	2.876e5	5.789e5	1.104	0.497	0.510	1723	1700	4.80e6	9.57e6	2785.7	YES	NO	bb	bb	101.303
13C-123789-HxCDF	36.805	1.010	2.787e5	5.633e5	1.046	0.495	0.510	1723	1700	5.25e6	1.04e7	3044.7	YES	NO	bb	bb	103.897
13C-1234678-HpCDF	38.530	1.057	2.356e5	5.379e5	1.004	0.438	0.440	1212	1653	4.11e6	9.33e6	3391.7	YES	NO	bb	bb	99.353
13C-1234789-HpCDF	40.745	1.118	1.902e5	4.440e5	0.799	0.428	0.440	1212	1653	2.98e6	6.82e6	2456.5	YES	NO	bb	bb	102.458
13C-1234-TCDD	25.407	0.000	3.908e5	5.106e5	1.000	0.765	0.770	1130	584	6.30e6	8.14e6	5571.6	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.223	1.032	4.552e5	5.913e5	1.171	0.770	0.770	1130	584	7.14e6	9.27e6	6312.5	YES	NO	bb	bb	99.123
13C-12378-PeCDD	31.340	1.234	4.620e5	2.752e5	0.886	1.679	1.550	1017	786	7.44e6	4.52e6	7316.1	YES	NO	bb	bb	92.304
13C-123478-HxCDD	35.970	0.987	4.622e5	3.595e5	1.027	1.286	1.240	1141	2772	7.87e6	6.00e6	6896.2	YES	NO	bd	bd	103.239
13C-123678-HxCDD	36.081	0.990	4.633e5	3.715e5	1.055	1.247	1.240	1141	2772	8.23e6	6.48e6	7214.6	YES	NO	db	db	102.081
13C-1234678-HpCDD	40.011	1.098	2.930e5	2.679e5	0.749	1.094	1.050	1356	1671	4.76e6	4.42e6	3507.8	YES	NO	bb	bb	96.624
13C-OCDD	44.688	1.226	3.894e5	4.427e5	0.725	0.880	0.890	1402	1590	4.71e6	5.24e6	3357.1	YES	NO	bb	bd	148.131
13C-123789-HxCDD	36.438	0.000	4.342e5	3.409e5	1.000	1.274	1.240	1141	2772	8.07e6	6.36e6	7072.0	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.238	1.033	4.587e5		1.121			953		7.25e6		7612.7	YES		bb		45.413

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1368-TCDF	22.098	0.864	5.842e2	8.008e2	1.020	0.730	0.770	763	567	1.01e4	1.40e4	13.2	YES	NO	bb	bb	0.073
1289-TCDF					0.818		0.770	763	567								
13468-PECDF					1.163		1.550	376	802								
12389-PECDF	32.163	1.082	9.807e1	7.502e1	0.912	1.307	1.550	701	745	3.65e3	2.43e3	5.2	YES	YES	bb	bb	0.013
123468-HXCDF	33.065	0.951	2.679e2	1.905e2	1.051	1.406	1.240	329	408	4.28e3	2.92e3	13.0	YES	NO	bb	bb	0.047
1368-TCDD	23.367	0.891	1.893e3	2.220e3	1.026	0.853	0.770	453	297	2.86e4	3.84e4	63.2	YES	NO	bb	bb	0.383
1289-TCDD					0.938		0.770	453	297								
12479-PECDD	28.679	0.915	1.110e3	7.006e2	1.807	1.584	1.550	442	298	1.17e4	7.57e3	26.5	YES	NO	MM	bb	0.136
12389-PECDD					1.326		1.550	442	298								
124679-HXCDD	33.855	0.941	2.671e3	2.147e3	1.031	1.244	1.240	704	611	4.37e4	3.36e4	62.1	YES	NO	bb	bb	0.569
1234679-HPCDD	38.998	0.975	3.629e4	3.365e4	1.228	1.079	1.050	879	659	6.39e5	5.79e5	726.6	YES	NO	bb	bb	10.153
Total-tetrafurans			1.104e4		0.891			763		1.70e5							1.522
Total-penta1			1.123e3					376		1.70e4							0.135
Total-pentafurans			2.218e3		0.903			701		4.51e4							0.269
Total-hexafurans			2.122e3		0.972			329		3.11e4							0.429
Total-heptafurans			4.193e3		1.141			595		6.38e4							0.947
Total-Furans			2.268e4		0.989			763		3.53e5							4.086
Total-tetraoxins			4.914e3		0.982			453		7.39e4							1.105
Total-pentadioxins			4.311e3		1.387			442		6.48e4							0.619
Total-hexadioxins			9.189e3		0.944			704		1.36e5							2.054
Total-heptadioxins			4.429e4		1.137			879		7.66e5							12.902
Total-Dioxins			1.110e5		1.088			453		1.64e6							41.355
Total-TEQ			1.336e5					453		1.99e6							45.440
FUNCTION1 PFK			2.141e6					271411		8.83e6							0.000
FUNCTION2 PFK			4.994e5					192416		2.87e6							0.000
FUNCTION3 PFK			4.170e5					135157		2.52e6							0.000
FUNCTION4 PFK			0.000e0					179563		0.00e0							
FUNCTION5 PFK			3.117e4					127519		1.25e6							
FUNCTION1 HXCD...			5.670e3					178		8.00e4							0.000
FUNCTION1 HPCD...			1.739e2					221		2.91e3							0.000
FUNCTION2 HPCD...			0.000e0					245		0.00e0							
FUNCTION3 OCDPE			0.000e0					203		0.00e0							
FUNCTION4 NCDPE			3.977e2					152		6.34e3							0.000
FUNCTION5 DCDPE			0.000e0					126		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

TF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-tetrafurans	24.49	6.678e2	1.377e3	0.891	0.49	0.77	11.9	YES	YES	dd	dd	0.124
Total-tetrafurans	24.36	4.424e2	5.181e2	0.891	0.85	0.77	8.6	YES	NO	dd	dd	0.058
Total-tetrafurans	24.26	5.328e2	1.013e3	0.891	0.53	0.77	12.0	YES	YES	dd	dd	0.094
Total-tetrafurans	24.20	4.080e2	4.042e2	0.891	1.01	0.77	10.8	YES	YES	bd	dd	0.049
Total-tetrafurans	23.84	5.485e2	5.591e2	0.891	0.98	0.77	11.8	YES	YES	db	db	0.067
Total-tetrafurans	23.70	2.480e2	2.303e2	0.891	1.08	0.77	4.5	YES	YES	dd	dd	0.029
Total-tetrafurans	23.59	4.381e2	5.721e2	0.891	0.77	0.77	9.1	YES	NO	dd	bd	0.061
Total-tetrafurans	23.43	3.800e2	3.819e2	0.891	1.00	0.77	7.9	YES	YES	dd	db	0.046
Total-tetrafurans	23.35	4.502e2	3.757e2	0.891	1.20	0.77	11.4	YES	YES	dd	dd	0.050
Total-tetrafurans	23.23	6.012e2	8.871e2	0.891	0.68	0.77	10.4	YES	NO	dd	dd	0.090
Total-tetrafurans	23.11	1.350e3	1.779e3	0.891	0.76	0.77	21.4	YES	NO	dd	dd	0.190
Total-tetrafurans	22.93	6.935e2	7.099e2	0.891	0.98	0.77	10.3	YES	YES	bd	bd	0.085
Total-tetrafurans	22.34	3.835e2	4.540e2	0.891	0.84	0.77	6.5	YES	NO	bb	bb	0.051
1368-TCDF	22.10	5.842e2	8.008e2	1.020	0.73	0.77	13.2	YES	NO	bb	bb	0.073
Total-tetrafurans	25.82	6.830e2	8.044e2	0.891	0.85	0.77	12.2	YES	NO	db	db	0.090
Total-tetrafurans	25.74	2.344e2	3.134e2	0.891	0.75	0.77	6.8	YES	NO	dd	dd	0.033
2378-TCDF	25.60	7.954e2	7.882e2	0.834	1.01	0.77	19.9	YES	YES	bd	bd	0.103
Total-tetrafurans	25.42	1.888e2	2.180e2	0.891	0.87	0.77	5.6	YES	NO	db	db	0.025
Total-tetrafurans	25.38	2.963e2	3.439e2	0.891	0.86	0.77	6.5	YES	NO	bd	bd	0.039
Total-tetrafurans	24.92	3.210e2	4.586e2	0.891	0.70	0.77	6.4	YES	NO	bb	bb	0.047
Total-tetrafurans	24.68	7.954e2	1.094e3	0.891	0.73	0.77	14.8	YES	NO	db	db	0.115

PP

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-penta1	27.02	1.123e3	6.864e2		1.64	1.55	45.2	YES	NO	bb	bb	0.135

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

PF

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	12389-PECDF	32.16	9.807e1	7.502e1	0.912	1.31	1.55	5.2	YES	YES	bb	bb	0.013
	Total-pentafurans	30.84	3.201e2	1.217e2	0.903	2.63	1.55	10.6	YES	YES	MM	bb	0.034
	12378-PeCDF	29.76	4.303e2	2.336e2	0.852	1.84	1.55	10.9	NO	YES	bb	MM	0.053
	Total-pentafurans	29.45	7.490e1	7.150e1	0.903	1.05	1.55	3.6	YES	YES	db	db	0.011
	Total-pentafurans	29.39	2.647e2	1.042e2	0.903	2.54	1.55	5.8	YES	YES	bd	bd	0.029
	Total-pentafurans	28.68	5.054e2	2.192e2	0.903	2.31	1.55	13.5	YES	YES	db	db	0.056
	Total-pentafurans	28.60	5.241e2	3.945e2	0.903	1.33	1.55	14.7	YES	NO	bd	dd	0.072

HF

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	123789-HxCDF	36.83	1.166e2	1.095e2	0.938	1.07	1.24	5.7	YES	NO	bb	db	0.029
	Total-hexafurans	34.13	8.401e2	7.229e2	0.972	1.16	1.24	38.9	YES	NO	bb	bb	0.176
	Total-hexafurans	33.27	8.972e2	6.860e2	0.972	1.31	1.24	36.9	YES	NO	bb	bb	0.178
	123468-HXCDF	33.06	2.679e2	1.905e2	1.051	1.41	1.24	13.0	YES	NO	bb	bb	0.047

HPF

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
	Total-heptafurans	39.20	2.609e3	2.087e3	1.141	1.25	1.05	61.6	YES	YES	bb	bb	0.585
	1234678-HpCDF	38.55	1.584e3	1.553e3	1.119	1.02	1.05	45.6	YES	NO	bb	bb	0.362

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HIF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	24.49	6.678e2	1.377e3	0.891	0.49	0.77	11.9	YES	YES	dd	dd	0.124
2 Total-tetraturans	24.36	4.424e2	5.181e2	0.891	0.85	0.77	8.6	YES	NO	dd	dd	0.058
3 Total-tetraturans	24.26	5.328e2	1.013e3	0.891	0.53	0.77	12.0	YES	YES	dd	dd	0.094
4 Total-tetraturans	24.20	4.080e2	4.042e2	0.891	1.01	0.77	10.8	YES	YES	bd	dd	0.049
5 Total-tetraturans	23.84	5.485e2	5.591e2	0.891	0.98	0.77	11.8	YES	YES	db	db	0.067
6 Total-tetraturans	23.70	2.480e2	2.303e2	0.891	1.08	0.77	4.5	YES	YES	dd	dd	0.029
7 Total-tetraturans	23.59	4.381e2	5.721e2	0.891	0.77	0.77	9.1	YES	NO	dd	bd	0.061
8 Total-tetraturans	23.43	3.800e2	3.819e2	0.891	1.00	0.77	7.9	YES	YES	dd	db	0.046
9 Total-tetraturans	23.35	4.502e2	3.757e2	0.891	1.20	0.77	11.4	YES	YES	dd	dd	0.050
10 Total-tetraturans	23.23	6.012e2	8.871e2	0.891	0.68	0.77	10.4	YES	NO	dd	dd	0.090
11 Total-tetraturans	23.11	1.350e3	1.779e3	0.891	0.76	0.77	21.4	YES	NO	dd	dd	0.190
12 Total-tetraturans	22.93	6.935e2	7.099e2	0.891	0.98	0.77	10.3	YES	YES	bd	bd	0.085
13 Total-tetraturans	22.34	3.835e2	4.540e2	0.891	0.84	0.77	6.5	YES	NO	bb	bb	0.051
14 1368-TCDF	22.10	5.842e2	8.008e2	1.020	0.73	0.77	13.2	YES	NO	bb	bb	0.073
15 Total-tetraturans	25.82	6.830e2	8.044e2	0.891	0.85	0.77	12.2	YES	NO	db	db	0.090
16 Total-tetraturans	25.74	2.344e2	3.134e2	0.891	0.75	0.77	6.8	YES	NO	dd	dd	0.033
17 2378-TCDF	25.60	7.954e2	7.882e2	0.834	1.01	0.77	19.9	YES	YES	bd	bd	0.103
18 Total-tetraturans	25.42	1.888e2	2.180e2	0.891	0.87	0.77	5.6	YES	NO	db	db	0.025
19 Total-tetraturans	25.38	2.963e2	3.439e2	0.891	0.86	0.77	6.5	YES	NO	bd	bd	0.039
20 Total-tetraturans	24.92	3.210e2	4.586e2	0.891	0.70	0.77	6.4	YES	NO	bb	bb	0.047
21 Total-tetraturans	24.68	7.954e2	1.094e3	0.891	0.73	0.77	14.8	YES	NO	db	db	0.115
22 12389-PECDF	32.16	9.807e1	7.502e1	0.912	1.31	1.55	5.2	YES	YES	bb	bb	0.013
23 Total-pentaturans	30.84	3.201e2	1.217e2	0.903	2.63	1.55	10.6	YES	YES	MM	bb	0.034
24 12378-PeCDF	29.76	4.303e2	2.336e2	0.852	1.84	1.55	10.9	NO	YES	bb	MM	0.053
25 Total-pentaturans	29.45	7.490e1	7.150e1	0.903	1.05	1.55	3.6	YES	YES	db	db	0.011
26 Total-pentaturans	29.39	2.647e2	1.042e2	0.903	2.54	1.55	5.8	YES	YES	bd	bd	0.029
27 Total-pentaturans	28.68	5.054e2	2.192e2	0.903	2.31	1.55	13.5	YES	YES	db	db	0.056
28 Total-pentaturans	28.60	5.241e2	3.945e2	0.903	1.33	1.55	14.7	YES	NO	bd	dd	0.072
29 123789-HxCDF	36.83	1.166e2	1.095e2	0.938	1.07	1.24	5.7	YES	NO	bb	db	0.029
30 Total-hexaturans	34.13	8.401e2	7.229e2	0.972	1.16	1.24	38.9	YES	NO	bb	bb	0.176
31 Total-hexaturans	33.27	8.972e2	6.860e2	0.972	1.31	1.24	36.9	YES	NO	bb	bb	0.178
32 123468-HxCDF	33.06	2.679e2	1.905e2	1.051	1.41	1.24	13.0	YES	NO	bb	bb	0.047
33 Total-heptaturans	39.20	2.609e3	2.087e3	1.141	1.25	1.05	61.6	YES	YES	bb	bb	0.585
34 1234678-HpCDF	38.55	1.584e3	1.553e3	1.119	1.02	1.05	45.6	YES	NO	bb	bb	0.362
35 OCDF	44.93	1.984e3	1.744e3	1.145	1.14	0.89	68.2	YES	YES	bb	bb	0.783
36 Total-penta1	27.02	1.123e3	6.864e2		1.64	1.55	45.2	YES	NO	bb	bb	0.135

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetradioxins	24.56	2.841e2	4.226e2	0.982	0.67	0.77	7.5	YES	NO	MM	db	0.069
2 Total-tetradioxins	24.36	8.052e1	2.222e2	0.982	0.36	0.77	3.6	YES	YES	bb	bd	0.029
3 Total-tetradioxins	23.84	8.595e1	1.233e2	0.982	0.70	0.77	3.9	YES	NO	bb	bb	0.020
4 Total-tetradioxins	23.62	1.211e3	1.343e3	0.982	0.90	0.77	36.0	YES	YES	bb	bb	0.249
5 1368-TCDD	23.37	1.893e3	2.220e3	1.026	0.85	0.77	63.2	YES	NO	bb	bb	0.383
6 Total-tetradioxins	26.34	1.755e2	1.378e2	0.982	1.27	0.77	6.9	YES	YES	bb	db	0.030
7 2378-TCDD	26.22	7.131e1	6.043e2	0.982	0.12	0.77	3.3	YES	YES	bb	bd	0.066
8 Total-tetradioxins	25.86	3.222e2	5.380e2	0.982	0.60	0.77	12.4	YES	YES	bb	bb	0.084
9 Total-tetradioxins	25.44	2.731e2	3.406e2	0.982	0.80	0.77	10.1	YES	NO	bb	bb	0.060
10 Total-tetradioxins	25.21	1.033e2	9.614e1	0.982	1.07	0.77	3.5	YES	YES	bb	bb	0.019
11 Total-tetradioxins	24.85	4.137e2	5.664e2	0.982	0.73	0.77	12.5	YES	NO	bb	bb	0.095

PD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 12378-PeCDD	31.34	4.020e2	1.379e2	1.029	2.91	1.55	15.7	YES	YES	bb	MM	0.071
2 Total-pentadioxins	30.68	4.080e2	1.228e2	1.387	3.32	1.55	18.3	YES	YES	bb	MM	0.052
3 Total-pentadioxins	30.26	3.582e2	9.188e1	1.387	3.90	1.55	10.0	YES	YES	MM	bb	0.044
4 Total-pentadioxins	30.11	6.872e2	4.652e2	1.387	1.48	1.55	24.3	YES	NO	db	bb	0.113
5 Total-pentadioxins	29.98	2.279e2	9.431e1	1.387	2.42	1.55	9.4	YES	YES	bd	bb	0.032
6 Total-pentadioxins	29.75	9.542e2	5.304e2	1.387	1.80	1.55	36.2	YES	YES	bb	bb	0.145
7 Total-pentadioxins	29.15	1.641e2	1.064e2	1.387	1.54	1.55	5.8	YES	NO	bb	bb	0.026
8 12479-PECDD	28.68	1.110e3	7.006e2	1.807	1.58	1.55	26.5	YES	NO	MM	bb	0.136

HD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 124679-HxCDD	33.86	2.671e3	2.147e3	1.031	1.24	1.24	62.1	YES	NO	bb	bb	0.569
2 Total-hexadioxins	33.61	4.823e2	3.897e2	0.944	1.24	1.24	11.8	YES	NO	bb	bb	0.112
3 123789-HxCDD	36.46	3.346e2	2.480e2	0.918	1.35	1.24	8.2	YES	NO	bb	db	0.077
4 Total-hexadioxins	36.24	1.454e2	1.884e2	0.944	0.77	1.24	4.0	YES	YES	db	bd	0.043
5 123678-HxCDD	36.09	6.021e2	5.144e2	0.904	1.17	1.24	14.9	YES	NO	dd	db	0.148
6 123478-HxCDD	35.97	1.182e2	1.067e2	0.921	1.11	1.24	3.8	YES	NO	bd	bd	0.030
7 Total-hexadioxins	35.17	6.830e2	4.959e2	0.944	1.38	1.24	17.0	YES	NO	db	db	0.151
8 Total-hexadioxins	35.06	2.650e3	1.995e3	0.944	1.33	1.24	39.1	YES	NO	MM	bd	0.594
9 Total-hexadioxins	34.67	1.503e3	1.091e3	0.944	1.38	1.24	33.1	YES	NO	bb	bd	0.332

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

HPD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1234678-HpCDD	40.02	8.003e3	8.133e3	1.046	0.98	1.05	145.1	YES	NO	bb	bd	2.749
1234679-HPCDD	39.00	3.629e4	3.365e4	1.228	1.08	1.05	726.6	YES	NO	bb	bb	10.153

Dioxins,TD,PD,HD,HPD,OD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-tetradiioxins	24.56	2.841e2	4.226e2	0.982	0.67	0.77	7.5	YES	NO	MM	db	0.069
Total-tetradiioxins	24.36	8.052e1	2.222e2	0.982	0.36	0.77	3.6	YES	YES	bb	bd	0.029
Total-tetradiioxins	23.84	8.595e1	1.233e2	0.982	0.70	0.77	3.9	YES	NO	bb	bb	0.020
Total-tetradiioxins	23.62	1.211e3	1.343e3	0.982	0.90	0.77	36.0	YES	YES	bb	bb	0.249
1368-TCDD	23.37	1.893e3	2.220e3	1.026	0.85	0.77	63.2	YES	NO	bb	bb	0.383
Total-tetradiioxins	26.34	1.755e2	1.378e2	0.982	1.27	0.77	6.9	YES	YES	bb	db	0.030
2378-TCDD	26.22	7.131e1	6.043e2	0.982	0.12	0.77	3.3	YES	YES	bb	bd	0.066
Total-tetradiioxins	25.86	3.222e2	5.380e2	0.982	0.60	0.77	12.4	YES	YES	bb	bb	0.084
Total-tetradiioxins	25.44	2.731e2	3.406e2	0.982	0.80	0.77	10.1	YES	NO	bb	bb	0.060
Total-tetradiioxins	25.21	1.033e2	9.614e1	0.982	1.07	0.77	3.5	YES	YES	bb	bb	0.019
Total-tetradiioxins	24.85	4.137e2	5.664e2	0.982	0.73	0.77	12.5	YES	NO	bb	bb	0.095
12378-PeCDD	31.34	4.020e2	1.379e2	1.029	2.91	1.55	15.7	YES	YES	bb	MM	0.071
Total-pentadiioxins	30.68	4.080e2	1.228e2	1.387	3.32	1.55	18.3	YES	YES	bb	MM	0.052
Total-pentadiioxins	30.26	3.582e2	9.188e1	1.387	3.90	1.55	10.0	YES	YES	MM	bb	0.044
Total-pentadiioxins	30.11	6.872e2	4.652e2	1.387	1.48	1.55	24.3	YES	NO	db	bb	0.113
Total-pentadiioxins	29.98	2.279e2	9.431e1	1.387	2.42	1.55	9.4	YES	YES	bd	bb	0.032
Total-pentadiioxins	29.75	9.542e2	5.304e2	1.387	1.80	1.55	36.2	YES	YES	bb	bb	0.145
Total-pentadiioxins	29.15	1.641e2	1.064e2	1.387	1.54	1.55	5.8	YES	NO	bb	bb	0.026
12479-PECDD	28.68	1.110e3	7.006e2	1.807	1.58	1.55	26.5	YES	NO	MM	bb	0.136
124679-HxCDD	33.86	2.671e3	2.147e3	1.031	1.24	1.24	62.1	YES	NO	bb	bb	0.569
Total-hexadiioxins	33.61	4.823e2	3.897e2	0.944	1.24	1.24	11.8	YES	NO	bb	bb	0.112
123789-HxCDD	36.46	3.346e2	2.480e2	0.918	1.35	1.24	8.2	YES	NO	bb	db	0.077
Total-hexadiioxins	36.24	1.454e2	1.884e2	0.944	0.77	1.24	4.0	YES	YES	db	bd	0.043
123678-HxCDD	36.09	6.021e2	5.144e2	0.904	1.17	1.24	14.9	YES	NO	dd	db	0.148
123478-HxCDD	35.97	1.182e2	1.067e2	0.921	1.11	1.24	3.8	YES	NO	bd	bd	0.030
Total-hexadiioxins	35.17	6.830e2	4.959e2	0.944	1.38	1.24	17.0	YES	NO	db	db	0.151
Total-hexadiioxins	35.06	2.650e3	1.995e3	0.944	1.33	1.24	39.1	YES	NO	MM	bd	0.594
Total-hexadiioxins	34.67	1.503e3	1.091e3	0.944	1.38	1.24	33.1	YES	NO	bb	bd	0.332
1234678-HpCDD	40.02	8.003e3	8.133e3	1.046	0.98	1.05	145.1	YES	NO	bb	bd	2.749
1234679-HPCDD	39.00	3.629e4	3.365e4	1.228	1.08	1.05	726.6	YES	NO	bb	bb	10.153
OCDD	44.71	4.825e4	5.274e4	0.984	0.91	0.89	815.7	YES	NO	bd	bb	24.675

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	24.49	6.678e2	1.377e3	0.891	0.49	0.77	11.9	YES	YES	dd	dd	0.124
2 Total-tetraturans	24.36	4.424e2	5.181e2	0.891	0.85	0.77	8.6	YES	NO	dd	dd	0.058
3 Total-tetraturans	24.26	5.328e2	1.013e3	0.891	0.53	0.77	12.0	YES	YES	dd	dd	0.094
4 Total-tetraturans	24.20	4.080e2	4.042e2	0.891	1.01	0.77	10.8	YES	YES	bd	dd	0.049
5 Total-tetraturans	23.84	5.485e2	5.591e2	0.891	0.98	0.77	11.8	YES	YES	db	db	0.067
6 Total-tetraturans	23.70	2.480e2	2.303e2	0.891	1.08	0.77	4.5	YES	YES	dd	dd	0.029
7 Total-tetraturans	23.59	4.381e2	5.721e2	0.891	0.77	0.77	9.1	YES	NO	dd	bd	0.061
8 Total-tetraturans	23.43	3.800e2	3.819e2	0.891	1.00	0.77	7.9	YES	YES	dd	db	0.046
9 Total-tetraturans	23.35	4.502e2	3.757e2	0.891	1.20	0.77	11.4	YES	YES	dd	dd	0.050
10 Total-tetraturans	23.23	6.012e2	8.871e2	0.891	0.68	0.77	10.4	YES	NO	dd	dd	0.090
11 Total-tetraturans	23.11	1.350e3	1.779e3	0.891	0.76	0.77	21.4	YES	NO	dd	dd	0.190
12 Total-tetraturans	22.93	6.935e2	7.099e2	0.891	0.98	0.77	10.3	YES	YES	bd	bd	0.085
13 Total-tetraturans	22.34	3.835e2	4.540e2	0.891	0.84	0.77	6.5	YES	NO	bb	bb	0.051
14 1368-TCDF	22.10	5.842e2	8.008e2	1.020	0.73	0.77	13.2	YES	NO	bb	bb	0.073
15 Total-tetraturans	25.82	6.830e2	8.044e2	0.891	0.85	0.77	12.2	YES	NO	db	db	0.090
16 Total-tetraturans	25.74	2.344e2	3.134e2	0.891	0.75	0.77	6.8	YES	NO	dd	dd	0.033
17 2378-TCDF	25.60	7.954e2	7.882e2	0.834	1.01	0.77	19.9	YES	YES	bd	bd	0.103
18 Total-tetraturans	25.42	1.888e2	2.180e2	0.891	0.87	0.77	5.6	YES	NO	db	db	0.025
19 Total-tetraturans	25.38	2.963e2	3.439e2	0.891	0.86	0.77	6.5	YES	NO	bd	bd	0.039
20 Total-tetraturans	24.92	3.210e2	4.586e2	0.891	0.70	0.77	6.4	YES	NO	bb	bb	0.047
21 Total-tetraturans	24.68	7.954e2	1.094e3	0.891	0.73	0.77	14.8	YES	NO	db	db	0.115
22 12389-PECDF	32.16	9.807e1	7.502e1	0.912	1.31	1.55	5.2	YES	YES	bb	bb	0.013
23 Total-pentaturans	30.84	3.201e2	1.217e2	0.903	2.63	1.55	10.6	YES	YES	MM	bb	0.034
24 12378-PeCDF	29.76	4.303e2	2.336e2	0.852	1.84	1.55	10.9	NO	YES	bb	MM	0.053
25 Total-pentaturans	29.45	7.490e1	7.150e1	0.903	1.05	1.55	3.6	YES	YES	db	db	0.011
26 Total-pentaturans	29.39	2.647e2	1.042e2	0.903	2.54	1.55	5.8	YES	YES	bd	bd	0.029
27 Total-pentaturans	28.68	5.054e2	2.192e2	0.903	2.31	1.55	13.5	YES	YES	db	db	0.056
28 Total-pentaturans	28.60	5.241e2	3.945e2	0.903	1.33	1.55	14.7	YES	NO	bd	dd	0.072
29 123789-HxCDF	36.83	1.166e2	1.095e2	0.938	1.07	1.24	5.7	YES	NO	bb	db	0.029
30 Total-hexaturans	34.13	8.401e2	7.229e2	0.972	1.16	1.24	38.9	YES	NO	bb	bb	0.176
31 Total-hexaturans	33.27	8.972e2	6.860e2	0.972	1.31	1.24	36.9	YES	NO	bb	bb	0.178
32 123468-HxCDF	33.06	2.679e2	1.905e2	1.051	1.41	1.24	13.0	YES	NO	bb	bb	0.047
33 Total-heptaturans	39.20	2.609e3	2.087e3	1.141	1.25	1.05	61.6	YES	YES	bb	bb	0.585
34 1234678-HpCDF	38.55	1.584e3	1.553e3	1.119	1.02	1.05	45.6	YES	NO	bb	bb	0.362
35 OCDF	44.93	1.984e3	1.744e3	1.145	1.14	0.89	68.2	YES	YES	bb	bb	0.783
36 Total-penta1	27.02	1.123e3	6.864e2	0.982	1.64	1.55	45.2	YES	NO	bb	bb	0.135
37 Total-tetradoxins	24.56	2.841e2	4.226e2	0.982	0.67	0.77	7.5	YES	NO	MM	db	0.069

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
38	Total-tetradiioxins	24.36	8.052e1	2.222e2	0.982	0.36	0.77	3.6	YES	YES	bb	bd	0.029
39	Total-tetradiioxins	23.84	8.595e1	1.233e2	0.982	0.70	0.77	3.9	YES	NO	bb	bb	0.020
40	Total-tetradiioxins	23.62	1.211e3	1.343e3	0.982	0.90	0.77	36.0	YES	YES	bb	bb	0.249
41	1368-TCDD	23.37	1.893e3	2.220e3	1.026	0.85	0.77	63.2	YES	NO	bb	bb	0.383
42	Total-tetradiioxins	26.34	1.755e2	1.378e2	0.982	1.27	0.77	6.9	YES	YES	bb	db	0.030
43	2378-TCDD	26.22	7.131e1	6.043e2	0.982	0.12	0.77	3.3	YES	YES	bb	bd	0.066
44	Total-tetradiioxins	25.86	3.222e2	5.380e2	0.982	0.60	0.77	12.4	YES	YES	bb	bb	0.084
45	Total-tetradiioxins	25.44	2.731e2	3.406e2	0.982	0.80	0.77	10.1	YES	NO	bb	bb	0.060
46	Total-tetradiioxins	25.21	1.033e2	9.614e1	0.982	1.07	0.77	3.5	YES	YES	bb	bb	0.019
47	Total-tetradiioxins	24.85	4.137e2	5.664e2	0.982	0.73	0.77	12.5	YES	NO	bb	bb	0.095
48	12378-PeCDD	31.34	4.020e2	1.379e2	1.029	2.91	1.55	15.7	YES	YES	bb	MM	0.071
49	Total-pentadiioxins	30.68	4.080e2	1.228e2	1.387	3.32	1.55	18.3	YES	YES	bb	MM	0.052
50	Total-pentadiioxins	30.26	3.582e2	9.188e1	1.387	3.90	1.55	10.0	YES	YES	MM	bb	0.044
51	Total-pentadiioxins	30.11	6.872e2	4.652e2	1.387	1.48	1.55	24.3	YES	NO	db	bb	0.113
52	Total-pentadiioxins	29.98	2.279e2	9.431e1	1.387	2.42	1.55	9.4	YES	YES	bb	bb	0.032
53	Total-pentadiioxins	29.75	9.542e2	5.304e2	1.387	1.80	1.55	36.2	YES	YES	bb	bb	0.145
54	Total-pentadiioxins	29.15	1.641e2	1.064e2	1.387	1.54	1.55	5.8	YES	NO	bb	bb	0.026
55	12479-PECDD	28.68	1.110e3	7.006e2	1.807	1.58	1.55	26.5	YES	NO	MM	bb	0.136
56	124679-HxCDD	33.86	2.671e3	2.147e3	1.031	1.24	1.24	62.1	YES	NO	bb	bb	0.569
57	Total-hexadiioxins	33.61	4.823e2	3.897e2	0.944	1.24	1.24	11.8	YES	NO	bb	bb	0.112
58	123789-HxCDD	36.46	3.346e2	2.480e2	0.918	1.35	1.24	8.2	YES	NO	db	db	0.077
59	Total-hexadiioxins	36.24	1.454e2	1.884e2	0.944	0.77	1.24	4.0	YES	YES	db	bd	0.043
60	123678-HxCDD	36.09	6.021e2	5.144e2	0.904	1.17	1.24	14.9	YES	NO	dd	db	0.148
61	123478-HxCDD	35.97	1.182e2	1.067e2	0.921	1.11	1.24	3.8	YES	NO	bd	bd	0.030
62	Total-hexadiioxins	35.17	6.830e2	4.959e2	0.944	1.38	1.24	17.0	YES	NO	db	db	0.151
63	Total-hexadiioxins	35.06	2.650e3	1.995e3	0.944	1.33	1.24	39.1	YES	NO	MM	bd	0.594
64	Total-hexadiioxins	34.67	1.503e3	1.091e3	0.944	1.38	1.24	33.1	YES	NO	bb	bd	0.332
65	1234678-HpCDD	40.02	8.003e3	8.133e3	1.046	0.98	1.05	145.1	YES	NO	bb	bd	2.749
66	1234679-HPCDD	39.00	3.629e4	3.365e4	1.228	1.08	1.05	726.6	YES	NO	bb	bb	10.153
67	OCDD	44.71	4.825e4	5.274e4	0.984	0.91	0.89	815.7	YES	NO	bd	bb	24.675

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION1 PFK	22.10	6.864e5					9.3	YES		bd		
FUNCTION1 PFK	21.55	6.623e5					4.4	YES		bb		
FUNCTION1 PFK	21.31	2.332e5					4.3	YES		bb		
FUNCTION1 PFK	21.04	2.748e5					6.8	YES		bb		
FUNCTION1 PFK	20.21	1.181e4					1.8	NO		bb		
FUNCTION1 PFK	20.15	5.232e3					1.3	NO		bb		
FUNCTION1 PFK	22.37	2.676e5					4.7	YES		db		

PFK2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION2 PFK	32.46	1.272e5					6.3	YES		bb		0.000
FUNCTION2 PFK	32.16	3.488e5					5.8	YES		bb		0.000
FUNCTION2 PFK	29.18	2.333e4					2.7	NO		bb		0.000

PFK3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
FUNCTION3 PFK	37.45	8.640e3					2.4	NO		bb		0.000
FUNCTION3 PFK	36.95	2.370e5					6.7	YES		bb		0.000
FUNCTION3 PFK	36.67	1.714e5					9.6	YES		bb		0.000

PFK4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

PFK5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION5 PFK	43.98	8.999e2					0.8	NO		bb		
2 FUNCTION5 PFK	43.55	4.497e3					1.1	NO		bb		
3 FUNCTION5 PFK	43.22	7.865e2					0.7	NO		bb		
4 FUNCTION5 PFK	43.10	4.267e3					1.4	NO		bb		
5 FUNCTION5 PFK	42.91	8.810e3					1.1	NO		bb		
6 FUNCTION5 PFK	45.89	4.816e2					0.4	NO		bb		
7 FUNCTION5 PFK	45.83	1.518e3					0.7	NO		bb		
8 FUNCTION5 PFK	45.35	6.743e2					0.6	NO		bb		
9 FUNCTION5 PFK	45.23	2.427e3					1.0	NO		bb		
10 FUNCTION5 PFK	44.88	2.475e3					1.1	NO		bb		
11 FUNCTION5 PFK	44.09	4.333e3					1.0	NO		bb		

ETHERS1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION1 HXCD...	25.68	5.397e3					420.4	YES		bb		0.000
2 FUNCTION1 HXCD...	25.38	2.734e2					27.9	YES		bb		0.000

ETHERS2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION1 HPCD...	21.87	1.739e2					13.1	YES		bb		0.000

ETHERS3

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

ETHERS4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

ETHERS5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION4 NCDPE	38.21	3.977e2					41.7	YES		bb		0.000

Quantify Totals Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

ETHERS6

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

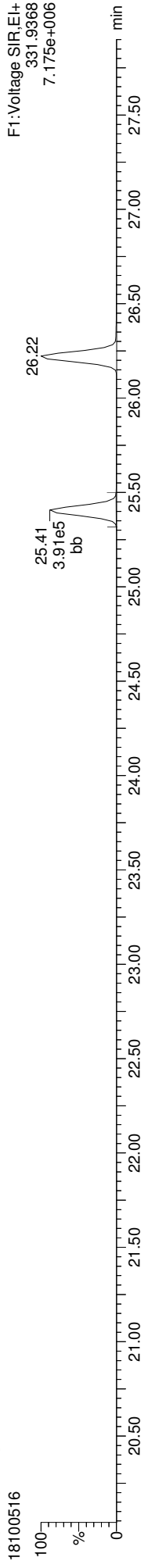
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

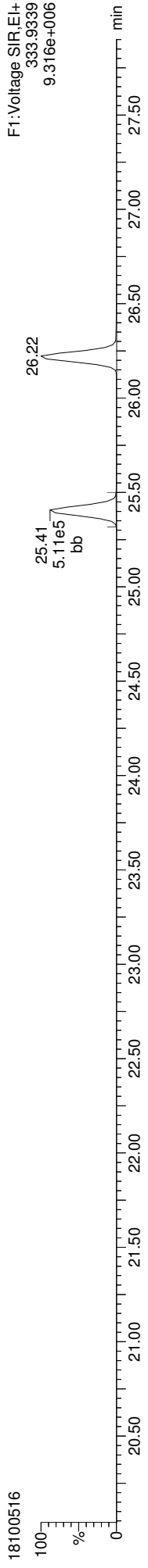
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Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

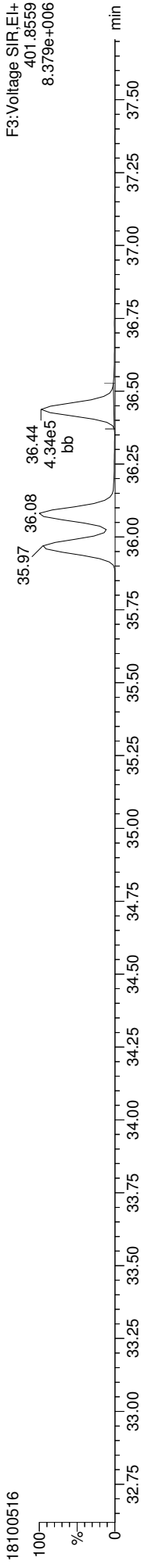
13C-1234-TCDD



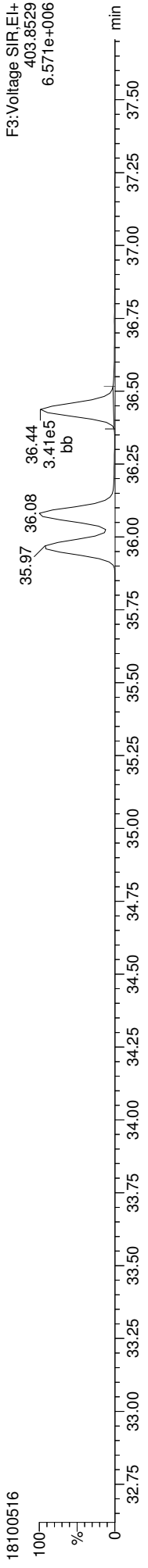
13C-1234-TCDD



13C-123789-HxCDD



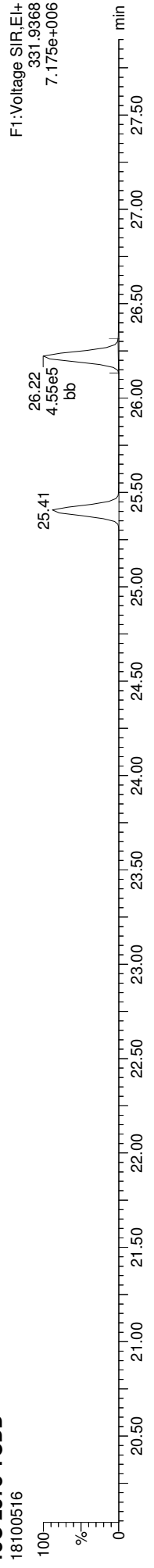
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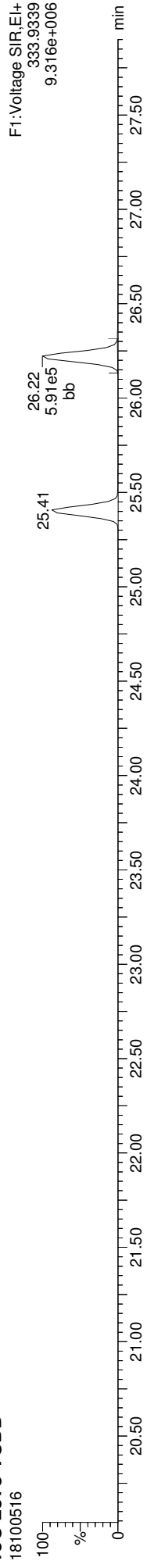
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

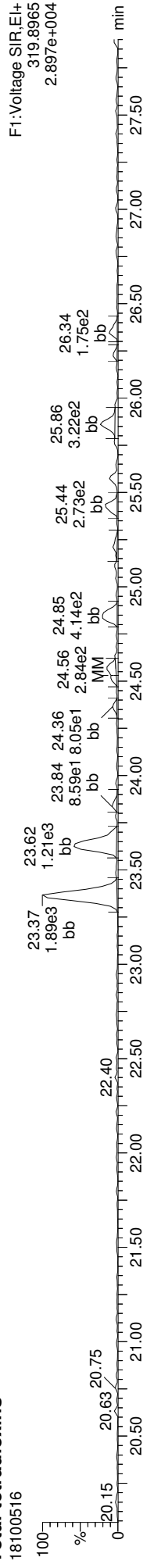
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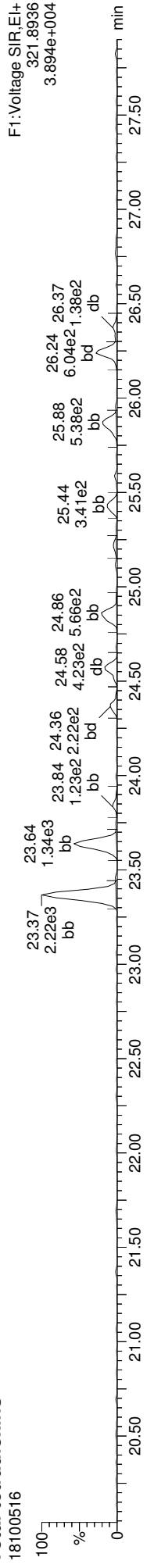
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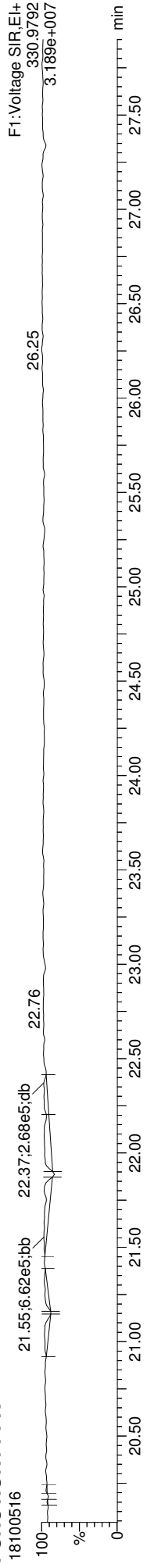
Total-tetradioxins



Total-tetradioxins



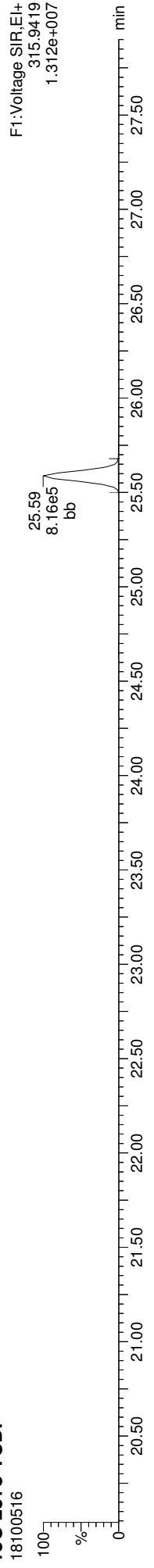
FUNCTION1 PFK



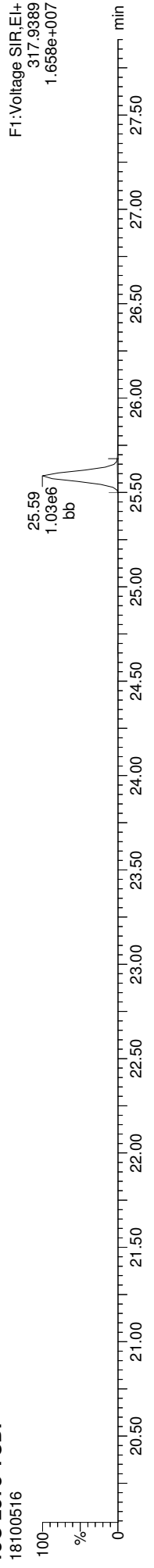
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

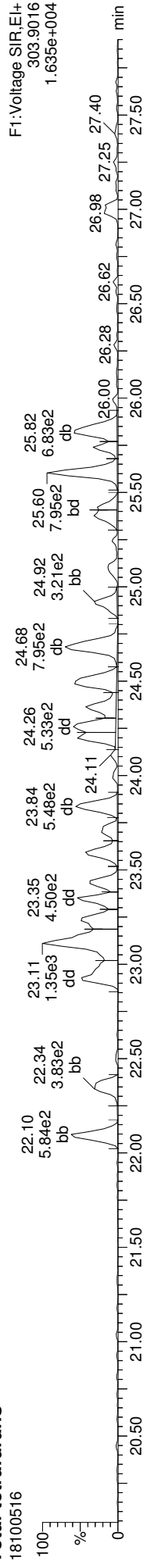
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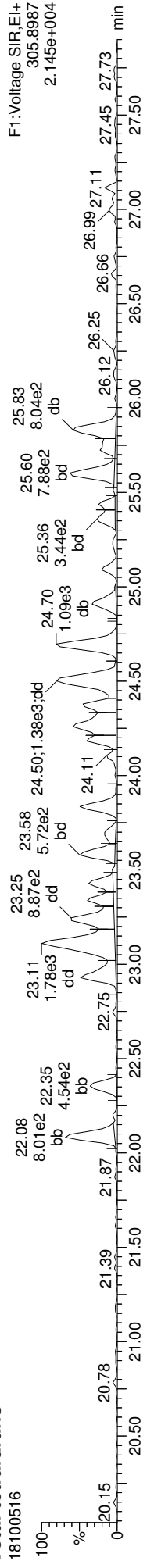
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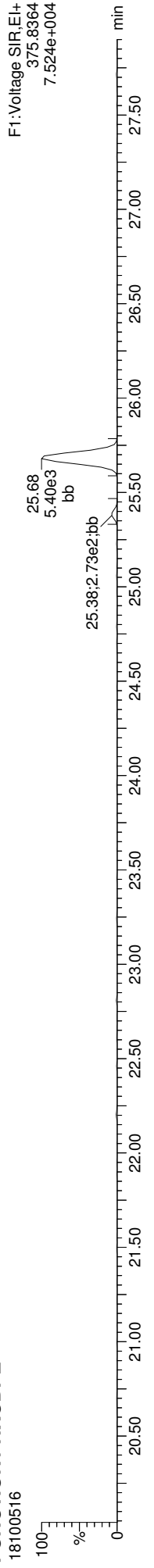
Total-tetrafurans



Total-tetrafurans



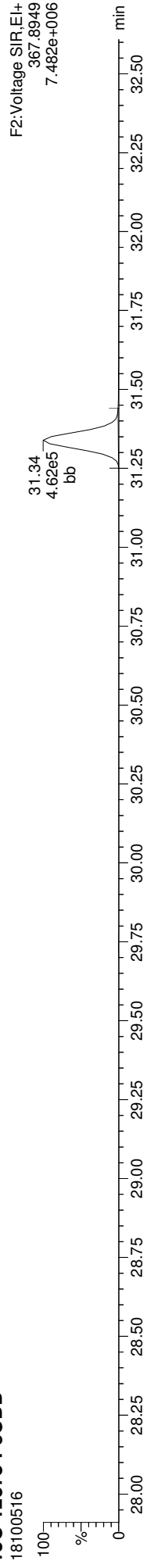
FUNCTION1 HXCDFE



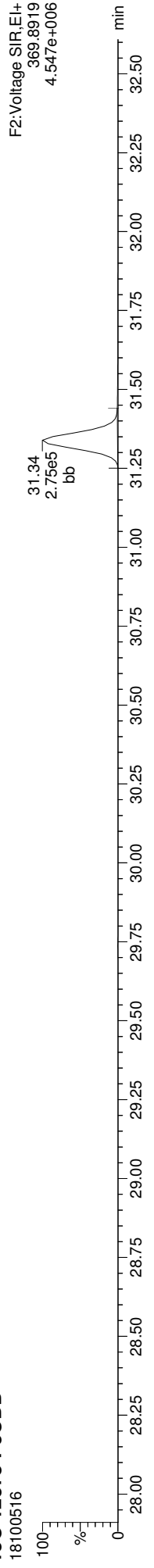
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

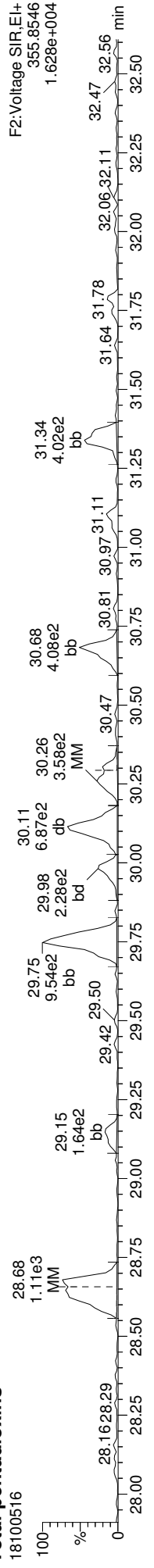
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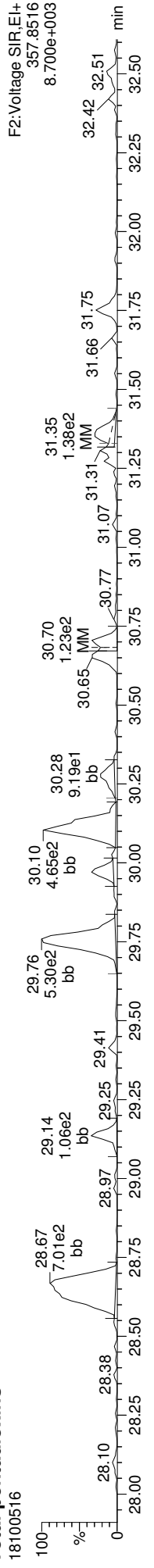
13C-12378-PeCDD



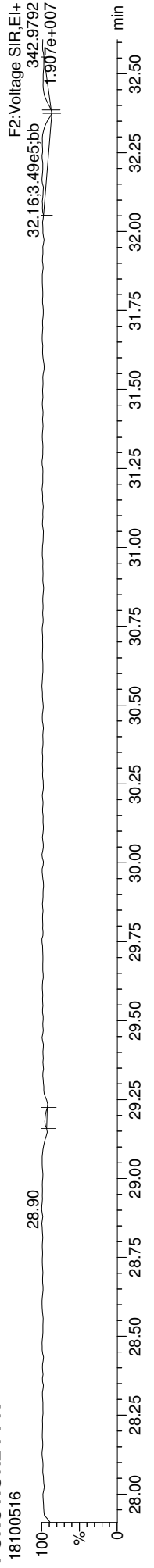
Total-pentadioxins



Total-pentadioxins



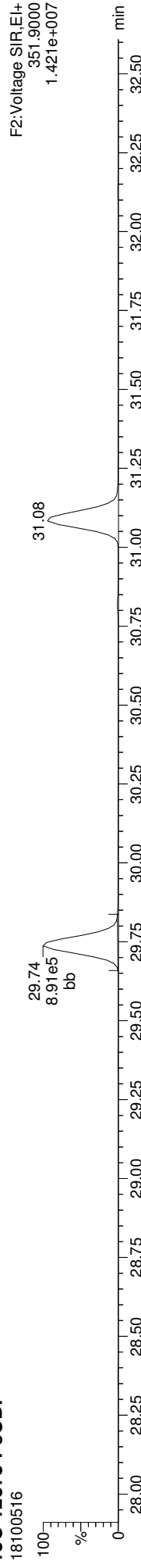
FUNCTION2 PFK



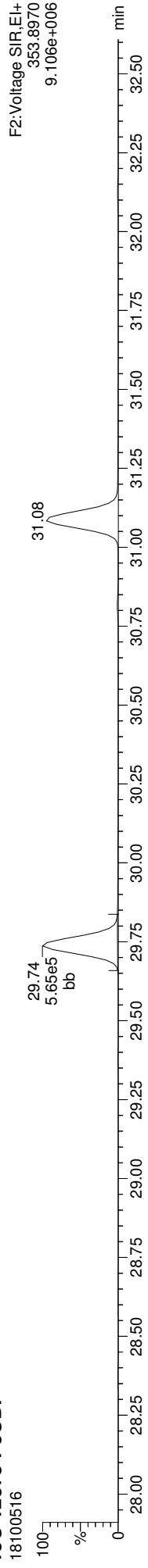
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Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

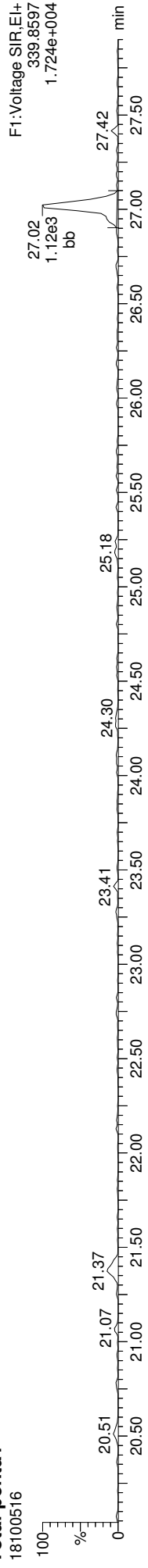
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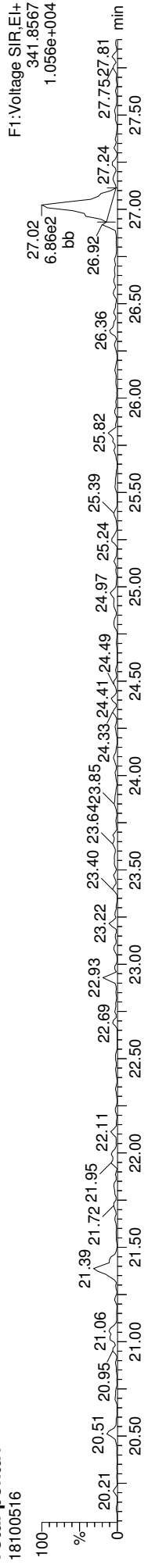
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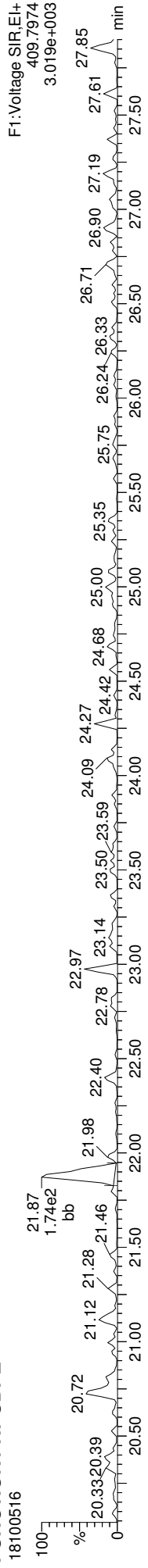
Total-penta1



Total-penta1



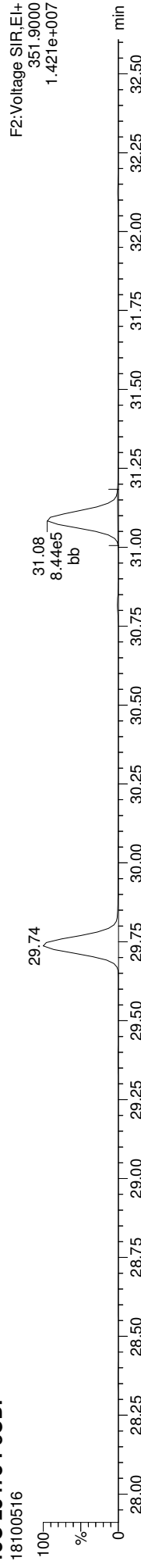
FUNCTION1 HPCDPE



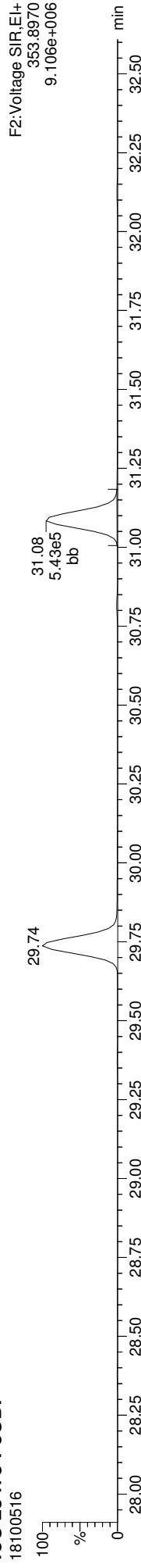
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

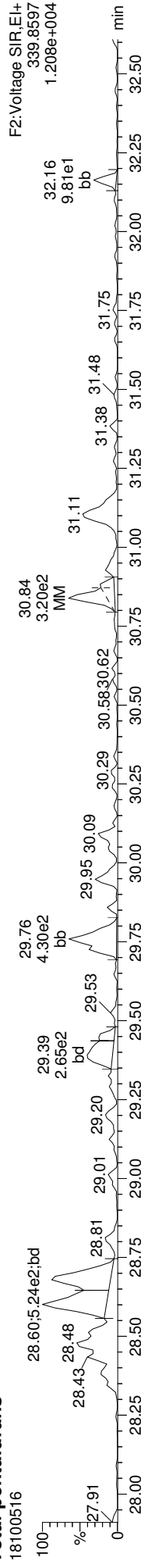
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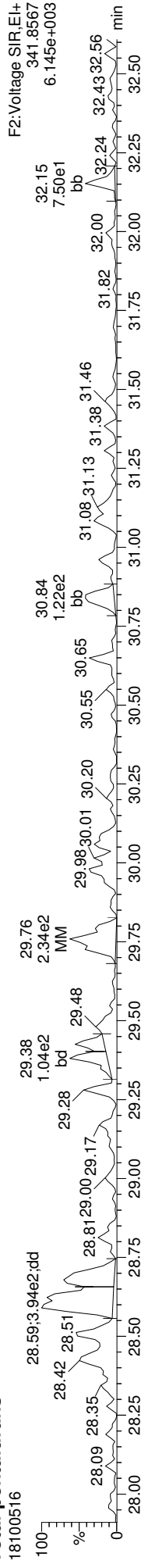
13C-23478-PeCDF



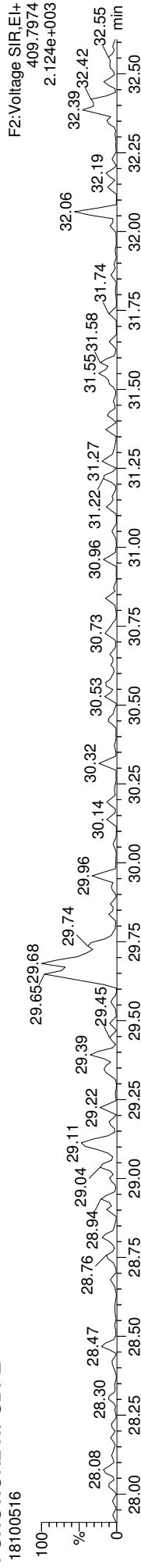
Total-pentafurans



Total-pentafurans



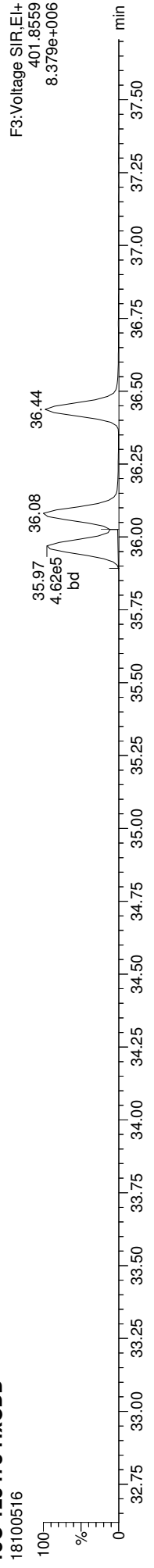
FUNCTION2 HPCDPE



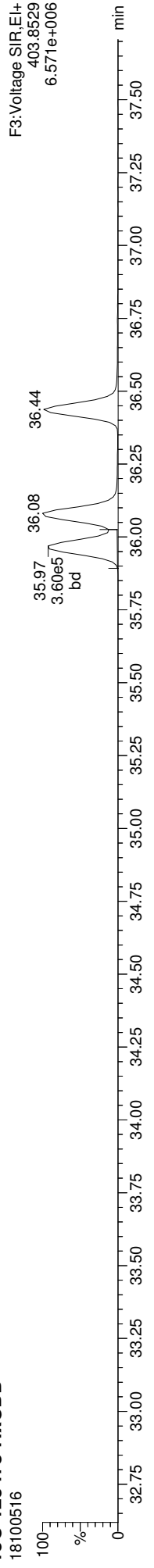
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

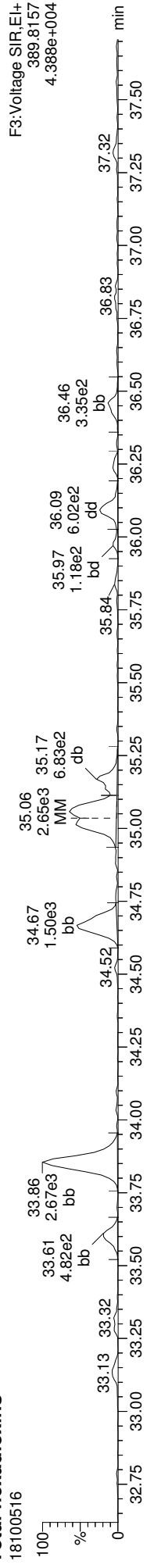
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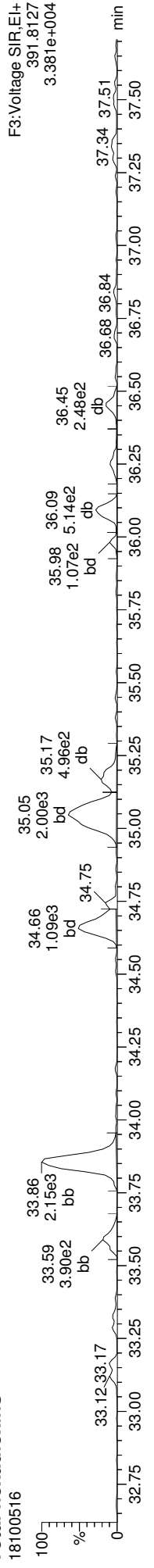
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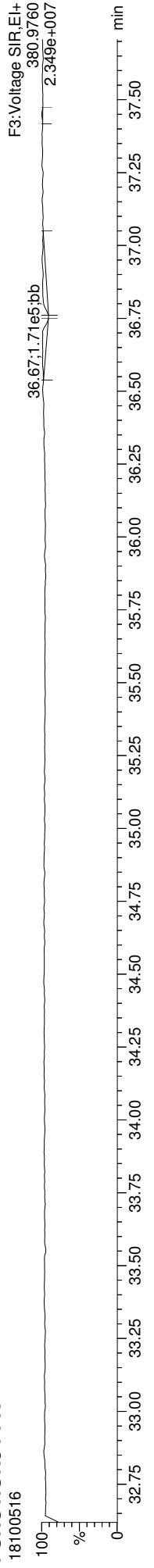
Total-hexadioxins



Total-hexadioxins



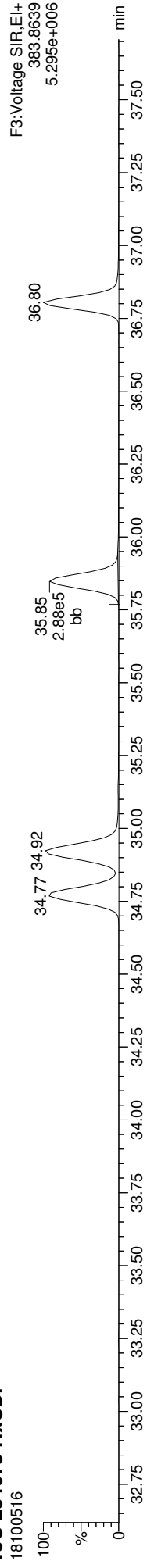
FUNCTION3 PFK



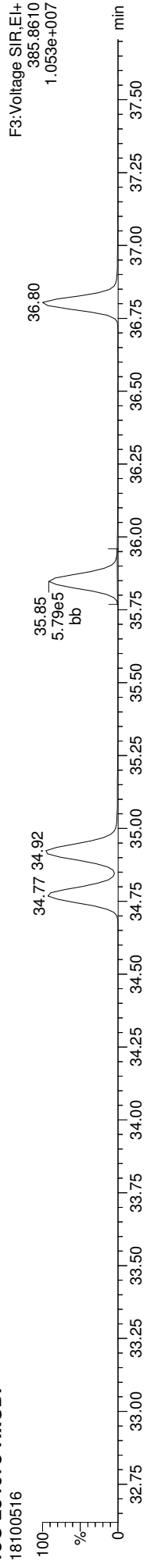
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

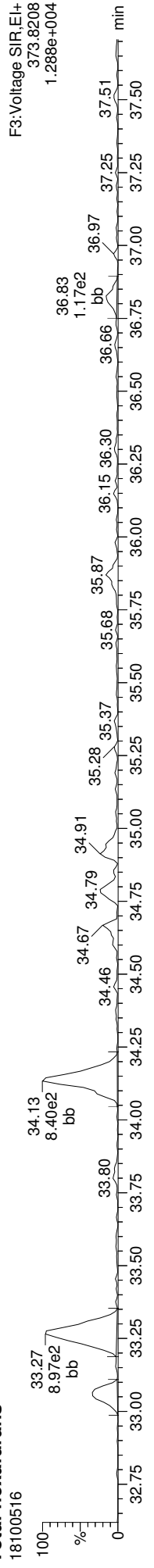
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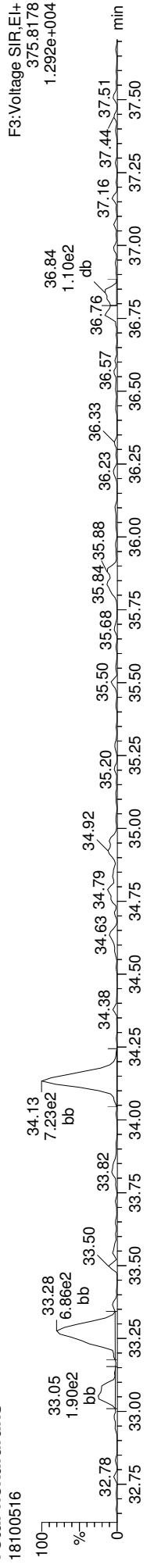
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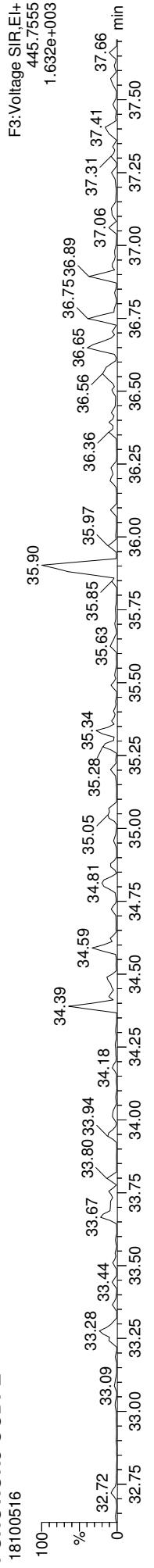
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Total-hexafurans



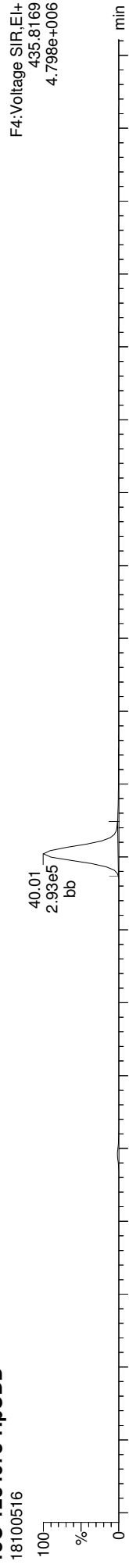
FUNCTION3 OCDPE



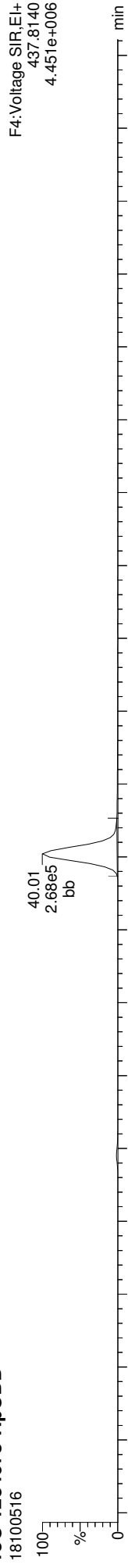
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

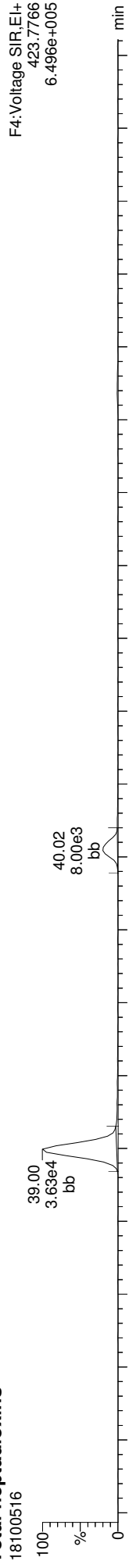
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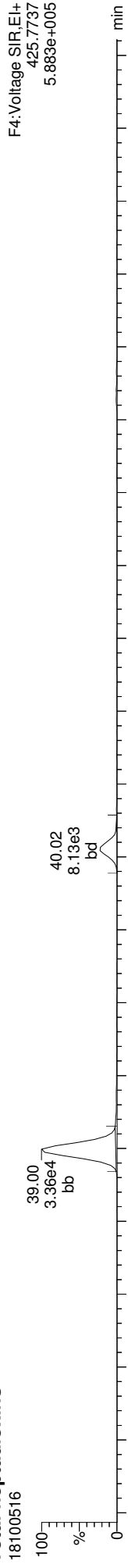
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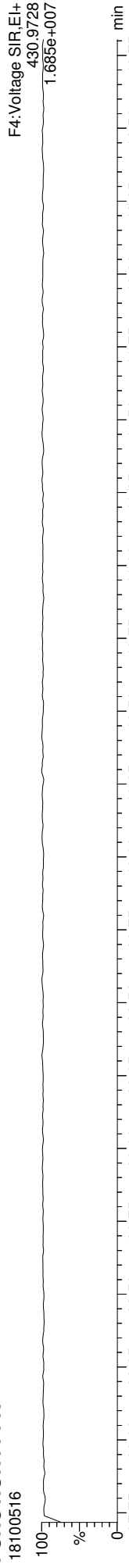
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Total-heptadioxins



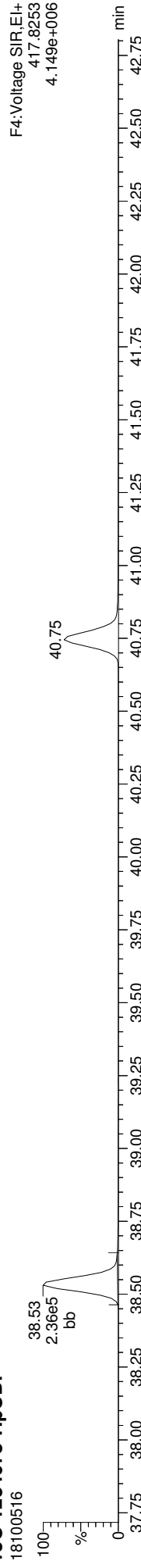
FUNCTION4 PFK



Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

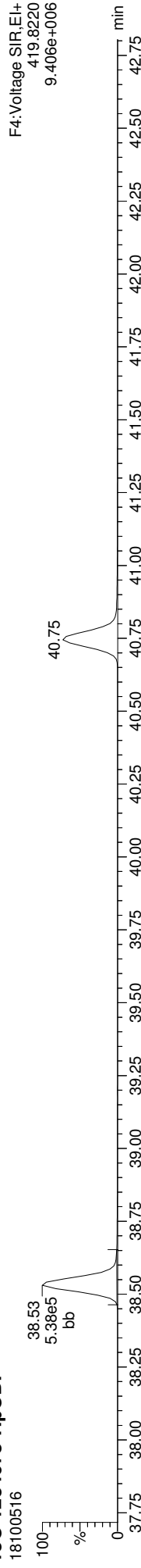
ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

13C-1234678-HpCDF



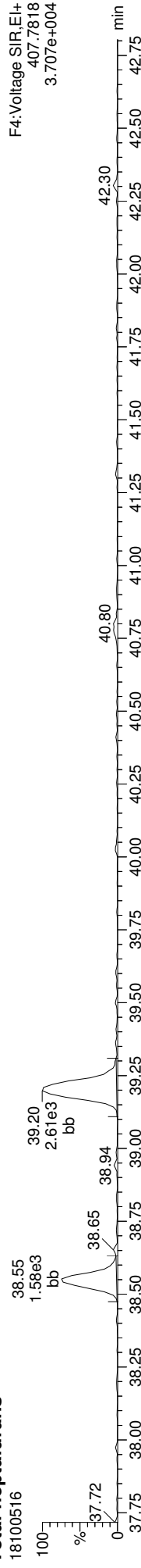
F4:Voltage SIR,EI+
417.8253
4.149e+006

13C-1234678-HpCDF



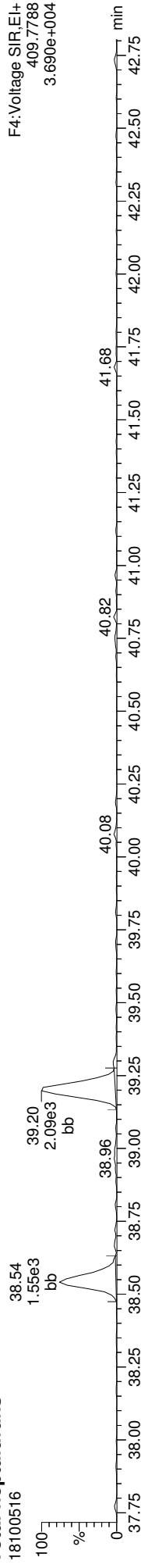
F4:Voltage SIR,EI+
419.8220
9.406e+006

Total-heptafurans



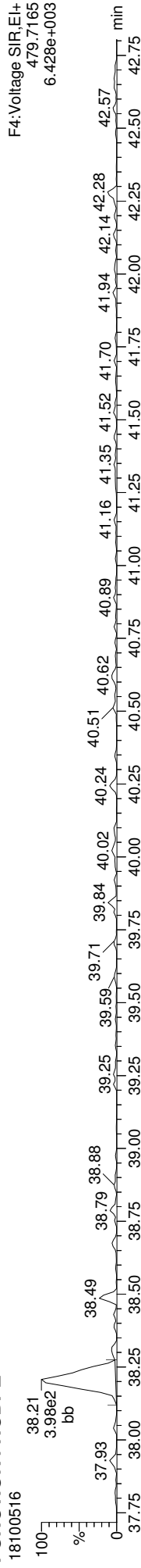
F4:Voltage SIR,EI+
407.7818
3.707e+004

Total-heptafurans



F4:Voltage SIR,EI+
409.7788
3.690e+004

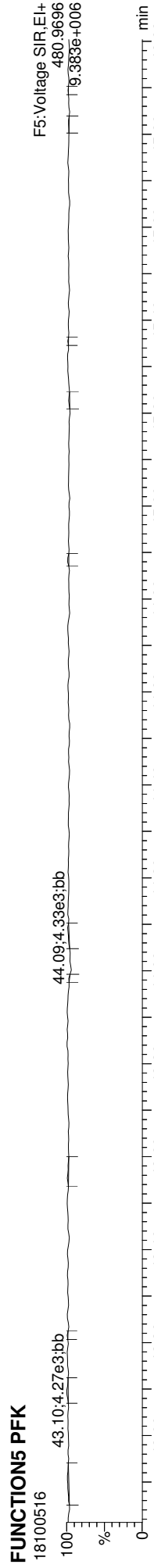
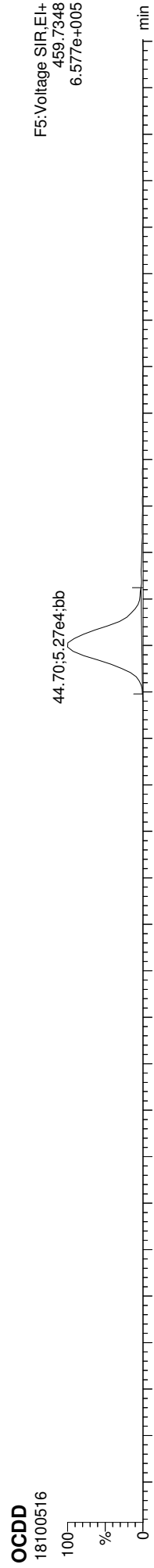
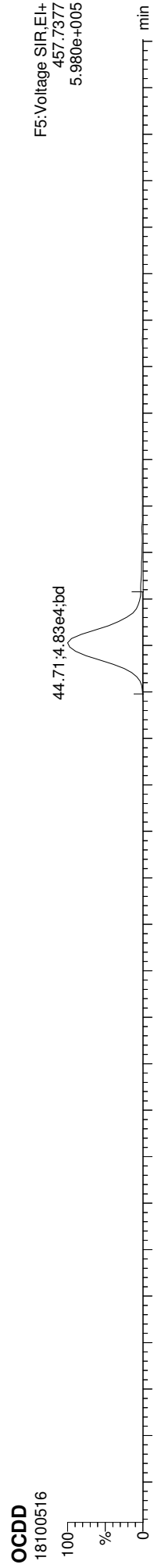
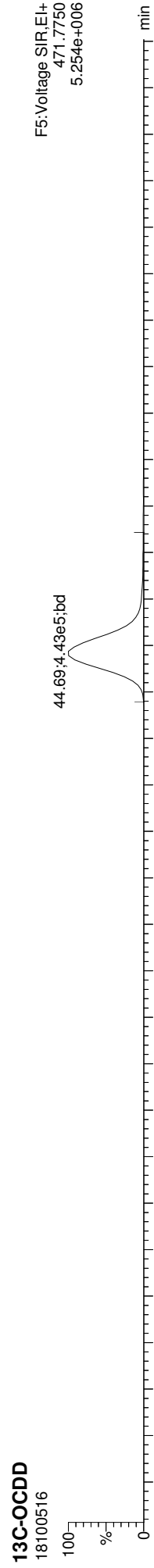
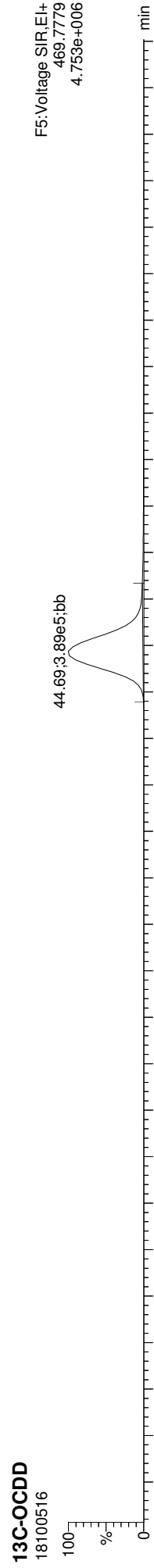
FUNCTION4 NCDPE



F4:Voltage SIR,EI+
479.7165
6.428e+003

Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:54 Pacific Daylight Time

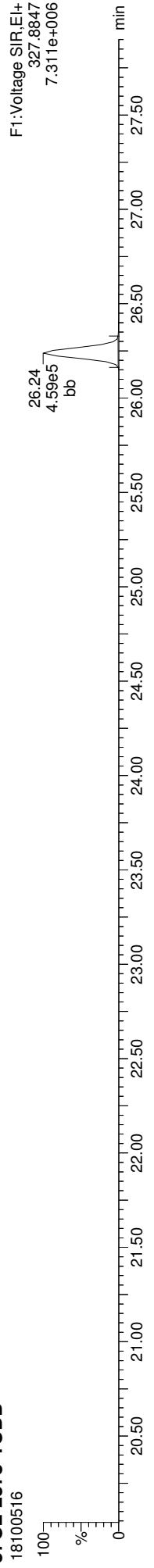
ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK



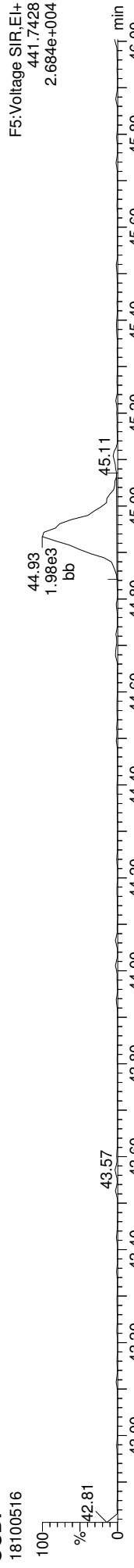
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-06, Name: 18100516, Date: 05-Oct-2018, Time: 21:52:26, Conditions: AUTOSPEC01, User: PK

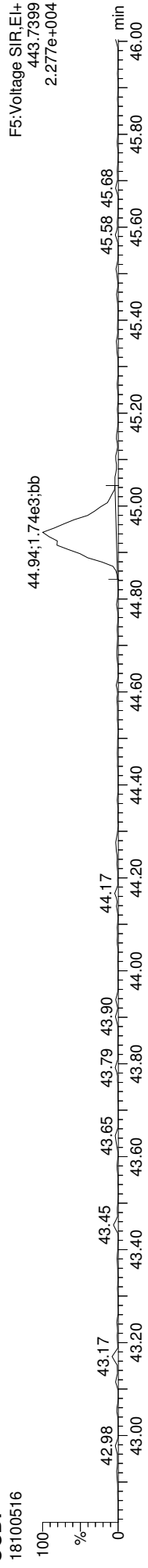
37CL-2378-TCDD



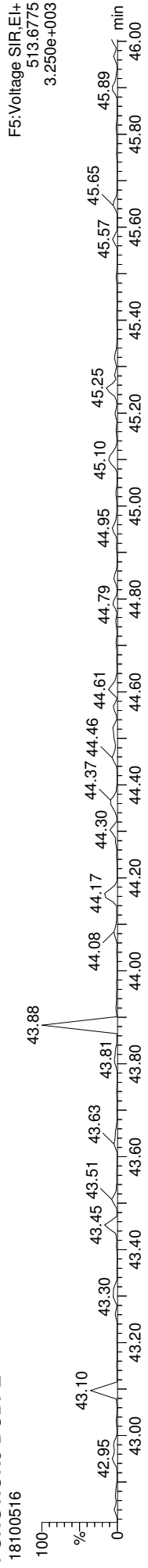
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 18I0285
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-37 File ID: 18100517
 Sampled: 09/18/18 16:40 Prepared: 10/02/18 16:00 Analyzed: 10/05/18 22:41
 % Solids: 81.95 Preparation: EPA 1613 Initial/Final: 12.22 g Wet / 20 uL
 Result Basis: Dry Sequence: SGJ0093 Calibration: BH00060
 Batch: BGI0793 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	1.008	0.655-0.886		0.999	0.193	ng/kg	EMPC, J
1746-01-6	2,3,7,8-TCDD	1	0.221	0.655-0.886		0.999	0.184	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.935	1.318-1.783		0.999	0.098	ng/kg	EMPC, J, B
57117-31-4	2,3,4,7,8-PeCDF	1	2.168	1.318-1.783		0.999	0.055	ng/kg	EMPC, J
40321-76-4	1,2,3,7,8-PeCDD	1	1.127	1.318-1.783		0.999	0.077	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.032	0.999	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.076	1.054-1.426		0.999	0.040	ng/kg	J
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.761	1.054-1.426		0.999	0.054	ng/kg	EMPC, J
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.940	1.054-1.426		0.999	0.058	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.053	0.999	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.425	1.054-1.426		0.999	0.255	ng/kg	J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.071	1.054-1.426		0.999	0.112	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.074	0.893-1.208		0.999	0.697	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.039	0.999	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.114	0.893-1.208		2.50	6.65	ng/kg	
39001-02-0	OCDF	1	1.028	0.757-1.024		2.00	1.88	ng/kg	EMPC, J
3268-87-9	OCDD	1	0.890	0.757-1.024		9.99	75.1	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	3.25	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.999	6.52	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.999	0.866	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.999	1.68	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.999	0.839	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.999	4.52	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.999	1.97	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.999	36.0	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.448
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.453



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>18I0285-37</u>
Sampled:	<u>09/18/18 16:40</u>	Prepared:	<u>10/02/18 16:00</u>
Solids Wt%:	<u>81.95</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SGJ0093</u>
Batch:	<u>BGI0793</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>18100517</u>
		Analyzed:	<u>10/05/18 22:41</u>
		Initial/Final:	<u>12.22 g / 20 uL</u>
		Calibration:	<u>BH00060</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.798	0.655-0.886		102	24 - 169 %	
13C12-2,3,7,8-TCDD		0.768	0.655-0.886		90.5	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.583	1.318-1.783		93.9	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.569	1.318-1.783		90.3	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.689	1.318-1.783		85.5	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.500	0.434-0.587		94.7	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.504	0.434-0.587		95.4	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.498	0.434-0.587		91.1	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.498	0.434-0.587		93.8	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.285	1.054-1.426		93.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.281	1.054-1.426		95.7	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.452	0.374-0.506		92.0	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.435	0.374-0.506		90.3	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.116	0.893-1.208		89.7	23 - 140 %	
13C12-OCDD		0.910	0.757-1.024		68.7	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			110	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820\CIH.cdb 21 Aug 2018 11:13:54

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.603	1.001	8.149e2	8.083e2	0.834	1.008	0.770	861	1027	1.36e4	1.42e4	15.8	YES	YES	bd	bb	0.097
12378-PeCDF	29.747	1.001	4.327e2	2.237e2	0.852	1.935	1.550	700	739	7.02e3	3.46e3	10.0	YES	YES	bb	bb	0.049
23478-PeCDF	31.072	1.000	2.652e2	1.223e2	0.944	2.168	1.550	700	739	4.52e3	3.06e3	6.5	YES	YES	bb	bb	0.027
123478-HxCDF					0.963		1.240	483	346								
234678-HxCDF	35.858	1.001	1.598e2	9.072e1	0.991	1.761	1.240	483	346	2.30e3	1.46e3	4.8	YES	YES	MM	bb	0.027
123678-HxCDF	34.923	1.000	1.040e2	9.662e1	0.917	1.076	1.240	483	346	1.90e3	1.97e3	3.9	YES	NO	bb	bb	0.020
123789-HxCDF	36.804	1.000	1.638e2	8.443e1	0.938	1.940	1.240	483	346	2.91e3	1.59e3	6.0	YES	YES	bb	bb	0.029
1234678-HpCDF	38.541	1.001	1.745e3	1.625e3	1.119	1.074	1.050	493	297	2.84e4	2.76e4	57.6	YES	NO	bb	bb	0.349
1234789-HpCDF					1.162		1.050	493	297								
OCDF	44.933	1.006	2.543e3	2.473e3	1.145	1.028	0.890	202	412	2.97e4	2.90e4	147.5	YES	YES	bb	bd	0.943
2378-TCDD	26.208	1.000	1.864e2	8.444e2	0.982	0.221	0.770	573	295	2.65e3	1.40e4	4.6	YES	YES	bd	bd	0.092
12378-PeCDD	31.350	1.001	1.712e2	1.519e2	1.029	1.127	1.550	651	488	2.69e3	2.88e3	4.1	YES	YES	MM	MM	0.039
123478-HxCDD					0.921		1.240	560	699								
123678-HxCDD	36.069	1.000	6.390e2	4.483e2	0.904	1.425	1.240	560	699	1.10e4	9.10e3	19.7	YES	NO	db	bb	0.128
123789-HxCDD	36.437	1.010	2.449e2	2.286e2	0.918	1.071	1.240	560	699	3.44e3	5.37e3	6.1	YES	NO	bb	bb	0.056
1234678-HpCDD	40.021	1.001	1.152e4	1.034e4	1.046	1.114	1.050	1005	673	1.88e5	1.65e5	186.9	YES	NO	bb	bb	3.329
OCDD	44.686	1.000	8.098e4	9.099e4	0.984	0.890	0.890	1354	742	1.01e6	1.16e6	749.2	YES	NO	bb	bb	37.619
13C-2378-TCDF	25.573	1.007	8.945e5	1.120e6	1.847	0.798	0.770	2393	1528	1.43e7	1.78e7	5958.6	YES	NO	bb	bb	101.588
13C-12378-PeCDF	29.725	1.171	9.631e5	6.084e5	1.558	1.583	1.550	2394	1314	1.54e7	9.82e6	6413.0	YES	NO	bb	bb	93.929
13C-23478-PeCDF	31.072	1.224	9.143e5	5.826e5	1.544	1.569	1.550	2394	1314	1.47e7	9.37e6	6124.9	YES	NO	bb	bb	90.286
13C-123478-HxCDF	34.756	0.954	3.397e5	6.792e5	1.152	0.500	0.510	876	3295	5.31e6	1.05e7	6064.5	YES	NO	bd	bd	94.698
13C-123678-HxCDF	34.912	0.958	3.655e5	7.253e5	1.225	0.504	0.510	876	3295	5.45e6	1.07e7	6225.1	YES	NO	db	db	95.355
13C-234678-HxCDF	35.836	0.984	3.120e5	6.268e5	1.104	0.498	0.510	876	3295	5.28e6	1.05e7	6027.9	YES	NO	bb	bb	91.103
13C-123789-HxCDF	36.793	1.010	3.043e5	6.113e5	1.046	0.498	0.510	876	3295	5.52e6	1.10e7	6294.8	YES	NO	bb	bb	93.776
13C-1234678-HpCDF	38.518	1.057	2.686e5	5.938e5	1.004	0.452	0.440	1553	1860	4.65e6	1.04e7	2994.1	YES	NO	bd	bb	91.954
13C-1234789-HpCDF	40.733	1.118	2.040e5	4.692e5	0.799	0.435	0.440	1553	1860	3.17e6	7.22e6	2038.1	YES	NO	bb	bb	90.268
13C-1234-TCDD	25.392	0.000	4.714e5	6.027e5	1.000	0.782	0.770	1243	753	7.67e6	9.73e6	6168.8	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.208	1.032	4.942e5	6.436e5	1.171	0.768	0.770	1243	753	7.90e6	1.03e7	6356.8	YES	NO	bb	bb	90.457
13C-12378-PeCDD	31.328	1.234	5.110e5	3.026e5	0.886	1.689	1.550	676	721	8.05e6	4.78e6	11921.2	YES	NO	bb	bb	85.508
13C-123478-HxCDD	35.947	0.987	5.049e5	3.930e5	1.027	1.285	1.240	1675	1674	8.70e6	6.84e6	5195.8	YES	NO	bd	bd	93.641
13C-123678-HxCDD	36.058	0.990	5.293e5	4.133e5	1.055	1.281	1.240	1675	1674	9.06e6	7.19e6	5406.8	YES	NO	db	db	95.681
13C-1234678-HpCDD	39.998	1.098	3.308e5	2.964e5	0.749	1.116	1.050	1363	1221	5.26e6	4.80e6	3860.0	YES	NO	bb	bb	89.696
13C-OCDD	44.668	1.226	4.429e5	4.865e5	0.725	0.910	0.890	1865	1943	5.57e6	6.09e6	2985.4	YES	NO	bb	bb	137.339
13C-123789-HxCDD	36.426	0.000	5.231e5	4.106e5	1.000	1.274	1.240	1675	1674	9.64e6	7.59e6	5757.4	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.223	1.033	5.288e5		1.121			432		8.43e6		19503.7	YES		bb		43.936

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1368-TCDF	22.083	0.863	5.622e2	8.677e2	1.020	0.648	0.770	861	1027	1.07e4	1.88e4	12.4	YES	YES	bb	bb	0.070
1289-TCDF					0.818		0.770	861	1027								
13468-PECDF					1.163		1.550	207	395								
12389-PECDF					0.912		1.550	700	739								
123468-HXCDF	33.064	0.951	3.155e2	2.236e2	1.051	1.411	1.240	483	346	5.24e3	4.54e3	10.9	YES	NO	bd	bb	0.050
1368-TCDD	23.352	0.891	4.852e3	6.462e3	1.026	0.751	0.770	573	295	7.69e4	1.04e5	134.2	YES	NO	bb	bb	0.969
1289-TCDD					0.938		0.770	573	295								
12479-PECDD	28.635	0.914	1.440e3	9.191e2	1.807	1.567	1.550	651	488	1.47e4	1.07e4	22.7	YES	NO	bb	MM	0.160
12389-PECDD	31.751	1.013	8.008e1	7.486e1	1.326	1.070	1.550	651	488	1.96e3	1.70e3	3.0	YES	YES	bb	bb	0.014
124679-HXCDD	33.843	0.942	3.489e3	2.797e3	1.031	1.247	1.240	560	699	5.39e4	4.63e4	96.1	YES	NO	bb	bb	0.679
1234679-HPCDD	38.986	0.975	5.855e4	5.457e4	1.228	1.073	1.050	1005	673	1.01e6	9.78e5	1002.4	YES	NO	bb	bb	14.686
Total-tetrafurans			1.299e4		0.891			861		1.84e5							1.628
Total-penta1			1.214e3					207		1.69e4							0.124
Total-pentafurans			2.569e3		0.903			700		4.42e4							0.310
Total-hexafurans			2.418e3		0.972			483		3.68e4							0.420
Total-heptafurans			4.431e3		1.141			493		7.78e4							0.987
Total-Furans			2.616e4		0.989			861		3.89e5							4.412
Total-tetraoxins			1.629e4		0.982			573		2.48e5							3.265
Total-pentadioxins			6.197e3		1.387			651		9.54e4							0.841
Total-hexadioxins			1.087e4		0.944			560		1.56e5							2.263
Total-heptadioxins			7.007e4		1.137			1005		1.20e6							18.015
Total-Dioxins			1.844e5		1.088			573		2.71e6							62.002
Total-TEQ			2.106e5					573		3.10e6							66.414
FUNCTION1 PFK			3.346e6					263761		8.22e6							0.000
FUNCTION2 PFK			3.650e5					211815		6.35e6							0.000
FUNCTION3 PFK			0.000e0					141126		0.00e0							0.000
FUNCTION4 PFK			7.742e4					148280		3.10e6							0.000
FUNCTION5 PFK			3.918e4					106027		1.26e6							0.000
FUNCTION1 HXGD...			1.804e3					282		2.91e4							0.000
FUNCTION1 HPCD...			2.275e2					206		4.15e3							0.000
FUNCTION2 HPCD...			0.000e0					320		0.00e0							0.000
FUNCTION3 OCDPE			0.000e0					230		0.00e0							0.000
FUNCTION4 NCDPE			3.458e2					432		5.52e3							0.000
FUNCTION5 DCDPE			0.000e0					134		0.00e0							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

TF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	24.50	1.053e3	1.082e3	0.891	0.97	0.77	16.9	YES	YES	dd	dd	0.119
2 Total-tetraturans	24.33	4.394e2	7.052e2	0.891	0.62	0.77	7.8	YES	YES	dd	dd	0.064
3 Total-tetraturans	24.24	1.152e3	1.652e3	0.891	0.70	0.77	13.0	YES	NO	dd	dd	0.156
4 Total-tetraturans	23.82	6.487e2	8.315e2	0.891	0.78	0.77	10.1	YES	NO	db	db	0.082
5 Total-tetraturans	23.70	3.880e2	3.308e2	0.891	1.17	0.77	5.9	YES	YES	dd	dd	0.040
6 Total-tetraturans	23.58	4.964e2	5.959e2	0.891	0.83	0.77	9.5	YES	NO	dd	dd	0.061
7 Total-tetraturans	23.41	4.518e2	8.212e2	0.891	0.55	0.77	8.8	YES	YES	dd	dd	0.071
8 Total-tetraturans	23.34	5.064e2	5.027e2	0.891	1.01	0.77	8.4	YES	YES	dd	dd	0.056
9 Total-tetraturans	23.23	7.830e2	9.216e2	0.891	0.85	0.77	14.8	YES	NO	dd	dd	0.095
10 Total-tetraturans	23.11	1.534e3	1.584e3	0.891	0.97	0.77	19.7	YES	YES	dd	dd	0.174
11 Total-tetraturans	22.93	7.536e2	9.512e2	0.891	0.79	0.77	12.9	YES	NO	bd	bd	0.095
12 Total-tetraturans	22.34	3.516e2	4.518e2	0.891	0.78	0.77	6.7	YES	NO	bb	bb	0.045
13 1368-TCDF	22.08	5.622e2	8.677e2	1.020	0.65	0.77	12.4	YES	YES	bb	bb	0.070
14 Total-tetraturans	25.81	9.375e2	1.114e3	0.891	0.84	0.77	16.1	YES	NO	db	db	0.114
15 Total-tetraturans	25.72	2.936e2	2.390e2	0.891	1.23	0.77	6.1	YES	YES	dd	dd	0.030
16 2378-TCDF	25.60	8.149e2	8.083e2	0.834	1.01	0.77	15.8	YES	YES	bd	bb	0.097
17 Total-tetraturans	25.38	3.305e2	7.259e2	0.891	0.46	0.77	5.3	YES	YES	dd	bb	0.059
18 Total-tetraturans	24.91	4.048e2	6.606e2	0.891	0.61	0.77	6.5	YES	YES	bb	bb	0.059
19 Total-tetraturans	24.67	1.086e3	1.456e3	0.891	0.75	0.77	16.6	YES	NO	db	db	0.142

PP

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-penta1	27.01	1.214e3	5.710e2		2.13	1.55	81.4	YES	YES	bb	bb	0.124

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

PF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
23478-PeCDF	31.07	2.652e2	1.223e2	0.944	2.17	1.55	6.5	YES	YES	bb	bb	0.027
Total-pentafurans	30.82	1.008e2	1.934e2	0.903	0.52	1.55	4.0	YES	YES	bb	bb	0.021
12378-PeCDF	29.75	4.327e2	2.237e2	0.852	1.93	1.55	10.0	YES	YES	bb	bb	0.049
Total-pentafurans	29.39	4.719e2	1.577e2	0.903	2.99	1.55	8.4	YES	YES	bb	bb	0.045
Total-pentafurans	28.65	5.582e2	3.621e2	0.903	1.54	1.55	12.6	YES	NO	MM	db	0.066
Total-pentafurans	28.59	6.081e2	4.386e2	0.903	1.39	1.55	16.2	YES	NO	bd	bd	0.076
Total-pentafurans	28.47	1.322e2	2.117e2	0.903	0.62	1.55	5.3	YES	YES	bb	db	0.025

HF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-hexafurans	34.13	8.332e2	6.003e2	0.972	1.39	1.24	24.6	YES	NO	bb	bb	0.149
Total-hexafurans	33.25	8.413e2	5.575e2	0.972	1.51	1.24	26.2	YES	YES	db	bb	0.145
123468-HxCDF	33.06	3.155e2	2.236e2	1.051	1.41	1.24	10.9	YES	NO	bd	bb	0.050
123789-HxCDF	36.80	1.638e2	8.443e1	0.938	1.94	1.24	6.0	YES	YES	bb	bb	0.029
234678-HxCDF	35.86	1.598e2	9.072e1	0.991	1.76	1.24	4.8	YES	YES	MM	bb	0.027
123678-HxCDF	34.92	1.040e2	9.662e1	0.917	1.08	1.24	3.9	YES	NO	bb	bb	0.020

HPF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-heptafurans	39.19	2.686e3	2.901e3	1.141	0.93	1.05	100.1	YES	NO	bb	bb	0.638
1234678-HpCDF	38.54	1.745e3	1.625e3	1.119	1.07	1.05	57.6	YES	NO	bb	bb	0.349

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HF,HPF,OF

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-tetraturans	24.50	1.053e3	1.082e3	0.891	0.97	0.77	16.9	YES	YES	dd	dd	0.119
2 Total-tetraturans	24.33	4.394e2	7.052e2	0.891	0.62	0.77	7.8	YES	YES	dd	dd	0.064
3 Total-tetraturans	24.24	1.152e3	1.652e3	0.891	0.70	0.77	13.0	YES	NO	dd	dd	0.156
4 Total-tetraturans	23.82	6.487e2	8.315e2	0.891	0.78	0.77	10.1	YES	NO	db	db	0.082
5 Total-tetraturans	23.70	3.880e2	3.308e2	0.891	1.17	0.77	5.9	YES	YES	dd	dd	0.040
6 Total-tetraturans	23.58	4.964e2	5.959e2	0.891	0.83	0.77	9.5	YES	NO	dd	dd	0.061
7 Total-tetraturans	23.41	4.518e2	8.212e2	0.891	0.55	0.77	8.8	YES	YES	dd	dd	0.071
8 Total-tetraturans	23.34	5.064e2	5.027e2	0.891	1.01	0.77	8.4	YES	YES	dd	dd	0.056
9 Total-tetraturans	23.23	7.830e2	9.216e2	0.891	0.85	0.77	14.8	YES	NO	dd	dd	0.095
10 Total-tetraturans	23.11	1.534e3	1.584e3	0.891	0.97	0.77	19.7	YES	YES	dd	dd	0.174
11 Total-tetraturans	22.93	7.536e2	9.512e2	0.891	0.79	0.77	12.9	YES	NO	bd	bd	0.095
12 Total-tetraturans	22.34	3.516e2	4.518e2	0.891	0.78	0.77	6.7	YES	NO	bb	bb	0.045
13 1368-TCDF	22.08	5.622e2	8.677e2	1.020	0.65	0.77	12.4	YES	YES	bb	bb	0.070
14 Total-tetraturans	25.81	9.375e2	1.114e3	0.891	0.84	0.77	16.1	YES	NO	db	db	0.114
15 Total-tetraturans	25.72	2.936e2	2.390e2	0.891	1.23	0.77	6.1	YES	YES	dd	dd	0.030
16 2378-TCDF	25.60	8.149e2	8.083e2	0.834	1.01	0.77	15.8	YES	YES	bd	bb	0.097
17 Total-tetraturans	25.38	3.305e2	7.259e2	0.891	0.46	0.77	5.3	YES	YES	dd	bb	0.059
18 Total-tetraturans	24.91	4.048e2	6.606e2	0.891	0.61	0.77	6.5	YES	YES	bb	bb	0.059
19 Total-tetraturans	24.67	1.086e3	1.456e3	0.891	0.75	0.77	16.6	YES	NO	db	db	0.142
20 23478-PeCDF	31.07	2.652e2	1.223e2	0.944	2.17	1.55	6.5	YES	YES	bb	bb	0.027
21 Total-pentaturans	30.82	1.008e2	1.934e2	0.903	0.52	1.55	4.0	YES	YES	bb	bb	0.021
22 12378-PeCDF	29.75	4.327e2	2.237e2	0.852	1.93	1.55	10.0	YES	YES	bb	bb	0.049
23 Total-pentaturans	29.39	4.719e2	1.577e2	0.903	2.99	1.55	8.4	YES	YES	bb	bb	0.045
24 Total-pentaturans	28.65	5.582e2	3.621e2	0.903	1.54	1.55	12.6	YES	NO	MM	db	0.066
25 Total-pentaturans	28.59	6.081e2	4.386e2	0.903	1.39	1.55	16.2	YES	NO	bd	bd	0.076
26 Total-pentaturans	28.47	1.322e2	2.117e2	0.903	0.62	1.55	5.3	YES	YES	bb	db	0.025
27 Total-hexaturans	34.13	8.332e2	6.003e2	0.972	1.39	1.24	24.6	YES	NO	bb	bb	0.149
28 Total-hexaturans	33.25	8.413e2	5.575e2	0.972	1.51	1.24	26.2	YES	YES	db	bb	0.145
29 123468-HxCDF	33.06	3.155e2	2.236e2	1.051	1.41	1.24	10.9	YES	NO	bd	bb	0.050
30 123789-HxCDF	36.80	1.638e2	8.443e1	0.938	1.94	1.24	6.0	YES	YES	bb	bb	0.029
31 234678-HxCDF	35.86	1.598e2	9.072e1	0.991	1.76	1.24	4.8	YES	YES	MM	bb	0.027
32 123678-HxCDF	34.92	1.040e2	9.662e1	0.917	1.08	1.24	3.9	YES	NO	bb	bb	0.020
33 OCDF	44.93	2.543e3	2.473e3	1.145	1.03	0.89	147.5	YES	YES	bb	bd	0.943
34 Total-heptaturans	39.19	2.686e3	2.901e3	1.141	0.93	1.05	100.1	YES	NO	bb	bb	0.638
35 1234678-HpCDF	38.54	1.745e3	1.625e3	1.119	1.07	1.05	57.6	YES	NO	bb	bb	0.349
36 Total-penta1	27.01	1.214e3	5.710e2		2.13	1.55	81.4	YES	YES	bb	bb	0.124

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 2378-TCDD	26.21	1.864e2	8.444e2	0.982	0.22	0.77	4.6	YES	YES	bd	bd	0.092
2 Total-tetradoxins	25.84	2.781e3	3.345e3	0.982	0.83	0.77	64.2	YES	NO	bb	bb	0.548
3 Total-tetradoxins	25.57	2.383e2	1.901e2	0.982	1.25	0.77	4.6	YES	YES	db	db	0.038
4 Total-tetradoxins	25.41	1.472e3	1.661e3	0.982	0.89	0.77	40.0	YES	YES	dd	bd	0.280
5 Total-tetradoxins	25.21	2.259e2	2.540e2	0.982	0.89	0.77	8.2	YES	YES	bd	db	0.043
6 Total-tetradoxins	24.83	1.177e3	1.520e3	0.982	0.77	0.77	30.6	YES	NO	bb	bb	0.241
7 Total-tetradoxins	24.55	1.386e3	1.537e3	0.982	0.90	0.77	34.0	YES	YES	db	bb	0.262
8 Total-tetradoxins	24.33	1.949e2	1.877e2	0.982	1.04	0.77	4.5	YES	YES	bd	bb	0.034
9 Total-tetradoxins	23.62	3.777e3	4.675e3	0.982	0.81	0.77	108.3	YES	NO	bb	bd	0.756
10 1368-TCDD	23.35	4.852e3	6.462e3	1.026	0.75	0.77	134.2	YES	NO	bb	bb	0.969

PD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 Total-pentadoxins	29.96	1.671e2	1.798e2	1.387	0.93	1.55	8.4	YES	YES	bb	bb	0.031
2 Total-pentadoxins	29.75	1.548e3	9.559e2	1.387	1.62	1.55	40.1	YES	NO	bb	bb	0.222
3 12479-PECDD	28.63	1.440e3	9.191e2	1.807	1.57	1.55	22.7	YES	NO	bb	MM	0.160
4 12389-PECDD	31.75	8.008e1	7.486e1	1.326	1.07	1.55	3.0	YES	YES	bb	bb	0.014
5 Total-pentadoxins	30.67	1.500e3	9.021e2	1.387	1.66	1.55	36.8	YES	NO	bb	bb	0.213
6 Total-pentadoxins	30.26	1.884e2	1.176e2	1.387	1.60	1.55	4.3	YES	NO	bb	bb	0.027
7 Total-pentadoxins	30.09	1.102e3	4.199e2	1.387	2.62	1.55	27.1	YES	YES	bb	bb	0.135
8 12378-PeCDD	31.35	1.712e2	1.519e2	1.029	1.13	1.55	4.1	YES	YES	MM	MM	0.039

HD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 123789-HxCDD	36.44	2.449e2	2.286e2	0.918	1.07	1.24	6.1	YES	NO	bb	bb	0.056
2 Total-hexadoxins	36.24	2.122e2	2.537e2	0.944	0.84	1.24	7.3	YES	YES	bb	bb	0.054
3 123678-HxCDD	36.07	6.390e2	4.483e2	0.904	1.43	1.24	19.7	YES	NO	db	bb	0.128
4 Total-hexadoxins	35.16	6.429e2	6.258e2	0.944	1.03	1.24	20.5	YES	YES	db	db	0.146
5 Total-hexadoxins	35.02	2.978e3	2.201e3	0.944	1.35	1.24	51.5	YES	NO	bd	bd	0.596
6 Total-hexadoxins	34.66	1.966e3	1.852e3	0.944	1.06	1.24	53.9	YES	NO	bb	bb	0.440
7 124679-HxCDD	33.84	3.489e3	2.797e3	1.031	1.25	1.24	96.1	YES	NO	bb	bb	0.679
8 Total-hexadoxins	33.59	6.950e2	7.372e2	0.944	0.94	1.24	23.4	YES	YES	bb	bb	0.165

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

HPD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1234679-HpCDD	38.99	5.855e4	5.457e4	1.228	1.07	1.05	1002.4	YES	NO	bb	bb	14.686
1234678-HpCDD	40.02	1.152e4	1.034e4	1.046	1.11	1.05	186.9	YES	NO	bb	bb	3.329

Dioxins,TD,PD,HD,HPD,OD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDD	26.21	1.864e2	8.444e2	0.982	0.22	0.77	4.6	YES	YES	bd	bd	0.092
Total-tetradoxins	25.84	2.781e3	3.345e3	0.982	0.83	0.77	64.2	YES	NO	bb	bb	0.548
Total-tetradoxins	25.57	2.383e2	1.901e2	0.982	1.25	0.77	4.6	YES	YES	db	db	0.038
Total-tetradoxins	25.41	1.472e3	1.661e3	0.982	0.89	0.77	40.0	YES	YES	dd	bd	0.280
Total-tetradoxins	25.21	2.259e2	2.540e2	0.982	0.89	0.77	8.2	YES	YES	bd	db	0.043
Total-tetradoxins	24.83	1.177e3	1.520e3	0.982	0.77	0.77	30.6	YES	NO	bb	bb	0.241
Total-tetradoxins	24.55	1.386e3	1.537e3	0.982	0.90	0.77	34.0	YES	YES	db	bb	0.262
Total-tetradoxins	24.33	1.949e2	1.877e2	0.982	1.04	0.77	4.5	YES	YES	bd	bb	0.034
Total-tetradoxins	23.62	3.777e3	4.675e3	0.982	0.81	0.77	108.3	YES	NO	bb	bd	0.756
1368-TCDD	23.35	4.852e3	6.462e3	1.026	0.75	0.77	134.2	YES	NO	bb	bb	0.969
Total-pentadoxins	29.96	1.671e2	1.798e2	1.387	0.93	1.55	8.4	YES	YES	bb	bb	0.031
Total-pentadoxins	29.75	1.548e3	9.559e2	1.387	1.62	1.55	40.1	YES	NO	bb	bb	0.222
12479-PECDD	28.63	1.440e3	9.191e2	1.807	1.57	1.55	22.7	YES	NO	bb	MM	0.160
12389-PECDD	31.75	8.008e1	7.486e1	1.326	1.07	1.55	3.0	YES	YES	bb	bb	0.014
Total-pentadoxins	30.67	1.500e3	9.021e2	1.387	1.66	1.55	36.8	YES	NO	bb	bb	0.213
Total-pentadoxins	30.26	1.884e2	1.176e2	1.387	1.60	1.55	4.3	YES	NO	bb	bb	0.027
Total-pentadoxins	30.09	1.102e3	4.199e2	1.387	2.62	1.55	27.1	YES	YES	bb	bb	0.135
123789-HxCDD	36.44	2.449e2	2.286e2	0.918	1.07	1.24	6.1	YES	NO	bb	bb	0.056
Total-hexadoxins	36.24	2.122e2	2.537e2	0.944	0.84	1.24	7.3	YES	YES	bb	bb	0.054
123678-HxCDD	36.07	6.390e2	4.483e2	0.904	1.43	1.24	19.7	YES	NO	db	bb	0.128
Total-hexadoxins	35.16	6.429e2	6.258e2	0.944	1.03	1.24	20.5	YES	YES	db	db	0.146
Total-hexadoxins	35.02	2.978e3	2.201e3	0.944	1.35	1.24	51.5	YES	NO	bd	bd	0.596
Total-hexadoxins	34.66	1.966e3	1.852e3	0.944	1.06	1.24	53.9	YES	NO	bb	bb	0.440
124679-HxCDD	33.84	3.489e3	2.797e3	1.031	1.25	1.24	96.1	YES	NO	bb	bb	0.679
Total-hexadoxins	33.59	6.950e2	7.372e2	0.944	0.94	1.24	23.4	YES	YES	bb	bb	0.165
1234679-HPCDD	38.99	5.855e4	5.457e4	1.228	1.07	1.05	1002.4	YES	NO	bb	bb	14.686
OCDD	44.69	8.098e4	9.099e4	0.984	0.89	0.89	749.2	YES	NO	bb	bb	37.619
1234678-HpCDD	40.02	1.152e4	1.034e4	1.046	1.11	1.05	186.9	YES	NO	bb	bb	3.329
12378-PeCDD	31.35	1.712e2	1.519e2	1.029	1.13	1.55	4.1	YES	YES	MM	MM	0.039

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetraturans	24.50	1.053e3	1.082e3	0.891	0.97	0.77	16.9	YES	YES	dd	0.119
2	Total-tetraturans	24.33	4.394e2	7.052e2	0.891	0.62	0.77	7.8	YES	YES	dd	0.064
3	Total-tetraturans	24.24	1.152e3	1.652e3	0.891	0.70	0.77	13.0	YES	NO	dd	0.156
4	Total-tetraturans	23.82	6.487e2	8.315e2	0.891	0.78	0.77	10.1	YES	NO	db	0.082
5	Total-tetraturans	23.70	3.880e2	3.308e2	0.891	1.17	0.77	5.9	YES	YES	dd	0.040
6	Total-tetraturans	23.58	4.964e2	5.959e2	0.891	0.83	0.77	9.5	YES	NO	dd	0.061
7	Total-tetraturans	23.41	4.518e2	8.212e2	0.891	0.55	0.77	8.8	YES	YES	dd	0.071
8	Total-tetraturans	23.34	5.064e2	5.027e2	0.891	1.01	0.77	8.4	YES	YES	dd	0.056
9	Total-tetraturans	23.23	7.830e2	9.216e2	0.891	0.85	0.77	14.8	YES	NO	dd	0.095
10	Total-tetraturans	23.11	1.534e3	1.584e3	0.891	0.97	0.77	19.7	YES	YES	dd	0.174
11	Total-tetraturans	22.93	7.536e2	9.512e2	0.891	0.79	0.77	12.9	YES	NO	bd	0.095
12	Total-tetraturans	22.34	3.516e2	4.518e2	0.891	0.78	0.77	6.7	YES	NO	bb	0.045
13	1368-TCDF	22.08	5.622e2	8.677e2	1.020	0.65	0.77	12.4	YES	YES	bb	0.070
14	Total-tetraturans	25.81	9.375e2	1.114e3	0.891	0.84	0.77	16.1	YES	NO	db	0.114
15	Total-tetraturans	25.72	2.936e2	2.390e2	0.891	1.23	0.77	6.1	YES	YES	dd	0.030
16	2378-TCDF	25.60	8.149e2	8.083e2	0.834	1.01	0.77	15.8	YES	YES	bd	0.097
17	Total-tetraturans	25.38	3.305e2	7.259e2	0.891	0.46	0.77	5.3	YES	YES	dd	0.059
18	Total-tetraturans	24.91	4.048e2	6.606e2	0.891	0.61	0.77	6.5	YES	YES	bb	0.059
19	Total-tetraturans	24.67	1.086e3	1.456e3	0.891	0.75	0.77	16.6	YES	NO	db	0.142
20	23478-PeCDF	31.07	2.652e2	1.223e2	0.944	2.17	1.55	6.5	YES	YES	bb	0.027
21	Total-pentaturans	30.82	1.008e2	1.934e2	0.903	0.52	1.55	4.0	YES	YES	bb	0.021
22	12378-PeCDF	29.75	4.327e2	2.237e2	0.852	1.93	1.55	10.0	YES	YES	bb	0.049
23	Total-pentaturans	29.39	4.719e2	1.577e2	0.903	2.99	1.55	8.4	YES	YES	bb	0.045
24	Total-pentaturans	28.65	5.582e2	3.621e2	0.903	1.54	1.55	12.6	YES	NO	db	0.066
25	Total-pentaturans	28.59	6.081e2	4.386e2	0.903	1.39	1.55	16.2	YES	NO	bd	0.076
26	Total-pentaturans	28.47	1.322e2	2.117e2	0.903	0.62	1.55	5.3	YES	YES	db	0.025
27	Total-hexaturans	34.13	8.332e2	6.003e2	0.972	1.39	1.24	24.6	YES	NO	bb	0.149
28	Total-hexaturans	33.25	8.413e2	5.575e2	0.972	1.51	1.24	26.2	YES	YES	db	0.145
29	123468-HxCDF	33.06	3.155e2	2.236e2	1.051	1.41	1.24	10.9	YES	NO	bd	0.050
30	123789-HxCDF	36.80	1.638e2	8.443e1	0.938	1.94	1.24	6.0	YES	YES	bb	0.029
31	234678-HxCDF	35.86	1.598e2	9.072e1	0.991	1.76	1.24	4.8	YES	YES	MM	0.027
32	123678-HxCDF	34.92	1.040e2	9.662e1	0.917	1.08	1.24	3.9	YES	NO	bb	0.020
33	OCDF	44.93	2.543e3	2.473e3	1.145	1.03	0.89	147.5	YES	YES	bb	0.943
34	Total-heptaturans	39.19	2.686e3	2.901e3	1.141	0.93	1.05	100.1	YES	NO	bb	0.638
35	1234678-HpCDF	38.54	1.745e3	1.625e3	1.119	1.07	1.05	57.6	YES	NO	bb	0.349
36	Total-penta1	27.01	1.214e3	5.710e2	1.119	2.13	1.55	81.4	YES	YES	bb	0.124
37	2378-TCDD	26.21	1.864e2	8.444e2	0.982	0.22	0.77	4.6	YES	YES	bd	0.092

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-tetradiioxins	25.84	2.781e3	3.345e3	0.982	0.83	64.2	YES	NO	bb	bb	0.548
39	Total-tetradiioxins	25.57	2.383e2	1.901e2	0.982	1.25	4.6	YES	YES	db	db	0.038
40	Total-tetradiioxins	25.41	1.472e3	1.661e3	0.982	0.89	40.0	YES	YES	dd	bd	0.280
41	Total-tetradiioxins	25.21	2.259e2	2.540e2	0.982	0.89	8.2	YES	YES	bd	db	0.043
42	Total-tetradiioxins	24.83	1.177e3	1.520e3	0.982	0.77	30.6	YES	NO	bb	bb	0.241
43	Total-tetradiioxins	24.55	1.386e3	1.537e3	0.982	0.90	34.0	YES	YES	db	bb	0.262
44	Total-tetradiioxins	24.33	1.949e2	1.877e2	0.982	1.04	4.5	YES	YES	bd	bb	0.034
45	Total-tetradiioxins	23.62	3.777e3	4.675e3	0.982	0.81	108.3	YES	NO	bb	bd	0.756
46	1368-TCDD	23.35	4.852e3	6.462e3	1.026	0.75	134.2	YES	NO	bb	bb	0.969
47	Total-pentadiioxins	29.96	1.671e2	1.798e2	1.387	0.93	8.4	YES	YES	bb	bb	0.031
48	Total-pentadiioxins	29.75	1.548e3	9.559e2	1.387	1.62	40.1	YES	NO	bb	bb	0.222
49	12479-PECDD	28.63	1.440e3	9.191e2	1.807	1.57	22.7	YES	NO	bb	MM	0.160
50	12389-PECDD	31.75	8.008e1	7.486e1	1.326	1.07	3.0	YES	YES	bb	bb	0.014
51	Total-pentadiioxins	30.67	1.500e3	9.021e2	1.387	1.66	36.8	YES	NO	bb	bb	0.213
52	Total-pentadiioxins	30.26	1.884e2	1.176e2	1.387	1.60	4.3	YES	NO	bb	bb	0.027
53	Total-pentadiioxins	30.09	1.102e3	4.199e2	1.387	2.62	27.1	YES	YES	bb	bb	0.135
54	123789-HxCDD	36.44	2.449e2	2.286e2	0.918	1.07	6.1	YES	NO	bb	bb	0.056
55	Total-hexadiioxins	36.24	2.122e2	2.537e2	0.944	0.84	7.3	YES	YES	bb	bb	0.054
56	123678-HxCDD	36.07	6.390e2	4.483e2	0.904	1.43	19.7	YES	NO	db	bb	0.128
57	Total-hexadiioxins	35.16	6.429e2	6.258e2	0.944	1.03	20.5	YES	YES	db	db	0.146
58	Total-hexadiioxins	35.02	2.978e3	2.201e3	0.944	1.35	51.5	YES	NO	bd	bd	0.596
59	Total-hexadiioxins	34.66	1.966e3	1.852e3	0.944	1.06	53.9	YES	NO	bb	bb	0.440
60	124679-HxCDD	33.84	3.489e3	2.797e3	1.031	1.25	96.1	YES	NO	bb	bb	0.679
61	Total-hexadiioxins	33.59	6.950e2	7.372e2	0.944	0.94	23.4	YES	YES	bb	bb	0.165
62	1234679-HPCDD	38.99	5.855e4	5.457e4	1.228	1.07	1002.4	YES	NO	bb	bb	14.686
63	OCDD	44.69	8.098e4	9.099e4	0.984	0.89	749.2	YES	NO	bb	bb	37.619
64	1234678-HpCDD	40.02	1.152e4	1.034e4	1.046	1.11	186.9	YES	NO	bb	bb	3.329
65	12378-PeCDD	31.35	1.712e2	1.519e2	1.029	1.13	4.1	YES	YES	MM	MM	0.039

PFK1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.52	1.621e6				10.6	YES		bb		
2	FUNCTION1 PFK	21.04	1.578e6				16.7	YES		bb		
3	FUNCTION1 PFK	22.08	1.469e5				3.8	YES		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

PFK2

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	31.41	8.172e3					1.1	NO		bb		0.000
2	FUNCTION2 PFK	31.14	4.862e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	30.45	2.219e3					0.6	NO		bb		0.000
4	FUNCTION2 PFK	30.20	8.933e3					1.4	NO		bb		0.000
5	FUNCTION2 PFK	29.95	6.171e3					0.9	NO		bb		0.000
6	FUNCTION2 PFK	29.69	3.072e3					0.7	NO		bb		0.000
7	FUNCTION2 PFK	29.65	1.140e3					0.5	NO		bb		0.000
8	FUNCTION2 PFK	29.04	1.767e4					0.4	NO		bb		0.000
9	FUNCTION2 PFK	28.59	3.340e3					0.7	NO		bb		0.000
10	FUNCTION2 PFK	28.53	1.238e4					1.5	NO		bb		0.000
11	FUNCTION2 PFK	28.43	3.082e3					0.7	NO		bb		0.000
12	FUNCTION2 PFK	28.24	4.794e3					0.7	NO		bb		0.000
13	FUNCTION2 PFK	28.11	3.660e3					0.8	NO		bb		0.000
14	FUNCTION2 PFK	28.03	5.603e4					1.6	NO		bb		0.000
15	FUNCTION2 PFK	32.49	1.614e4					2.1	NO		db		0.000
16	FUNCTION2 PFK	32.43	6.607e4					4.9	YES		bd		0.000
17	FUNCTION2 PFK	32.29	1.140e5					5.7	YES		bb		0.000
18	FUNCTION2 PFK	31.78	1.051e4					1.4	NO		bb		0.000
19	FUNCTION2 PFK	31.70	8.123e3					1.2	NO		db		0.000
20	FUNCTION2 PFK	31.65	1.359e4					1.7	NO		bd		0.000
21	FUNCTION2 PFK	31.52	1.006e3					0.4	NO		bb		0.000

PFK3

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

PFK4

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION4 PFK	39.64	2.181e3					0.9	NO		bb		
2 FUNCTION4 PFK	39.55	6.463e3					1.8	NO		db		
3 FUNCTION4 PFK	39.51	7.788e3					2.3	NO		dd		
4 FUNCTION4 PFK	39.48	1.054e4					2.2	NO		bd		
5 FUNCTION4 PFK	39.00	4.252e3					1.1	NO		bb		
6 FUNCTION4 PFK	38.56	5.077e3					1.5	NO		bb		
7 FUNCTION4 PFK	37.78	1.073e3					0.6	NO		bb		
8 FUNCTION4 PFK	42.15	6.624e3					2.1	NO		db		
9 FUNCTION4 PFK	42.11	1.109e4					2.4	NO		bd		
10 FUNCTION4 PFK	41.40	2.489e3					0.9	NO		bb		
11 FUNCTION4 PFK	40.97	1.001e3					0.6	NO		bb		
12 FUNCTION4 PFK	40.31	8.828e3					1.7	NO		bb		
13 FUNCTION4 PFK	40.04	3.889e3					1.3	NO		bb		
14 FUNCTION4 PFK	39.96	6.129e3					1.5	NO		bb		

PFK5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION5 PFK	45.79	2.413e3					1.2	NO		bb		
2 FUNCTION5 PFK	45.59	3.324e3					1.5	NO		bb		
3 FUNCTION5 PFK	45.25	6.697e3					1.8	NO		bb		
4 FUNCTION5 PFK	44.27	8.248e3					1.8	NO		bb		
5 FUNCTION5 PFK	43.93	1.137e4					2.3	NO		bb		
6 FUNCTION5 PFK	43.53	2.983e3					1.4	NO		bb		
7 FUNCTION5 PFK	43.50	2.002e3					1.0	NO		bb		
8 FUNCTION5 PFK	43.17	2.143e3					0.9	NO		bb		

ETHERS1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION1 HXCD...	25.66	1.559e3					88.9	YES		bb		0.000
2 FUNCTION1 HXCD...	25.38	2.446e2					14.2	YES		bb		0.000

ETHERS2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1 FUNCTION1 HPCD...	21.87	2.275e2					20.1	YES		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ETHERS3

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS4

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.21	3.458e2					12.8	YES		bb		0.000

ETHERS6

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

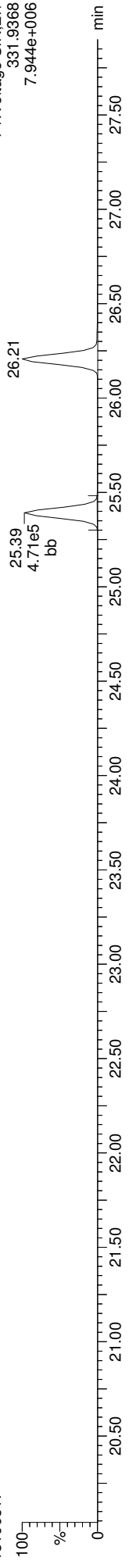
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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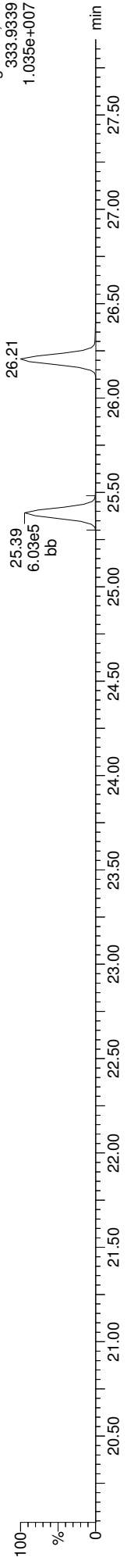
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ID: 1810285-37, **Name:** 18100517, **Date:** 05-Oct-2018, **Time:** 22:41:10, **Conditions:** AUTOSPEC01, **User:** PK

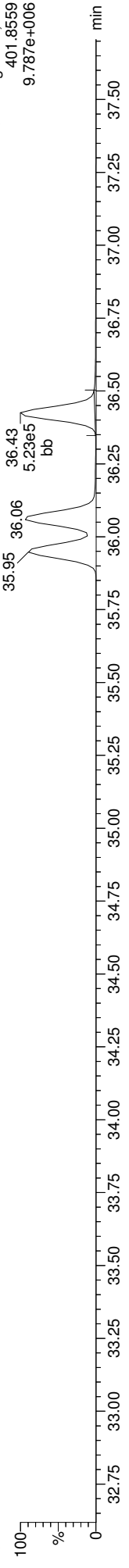
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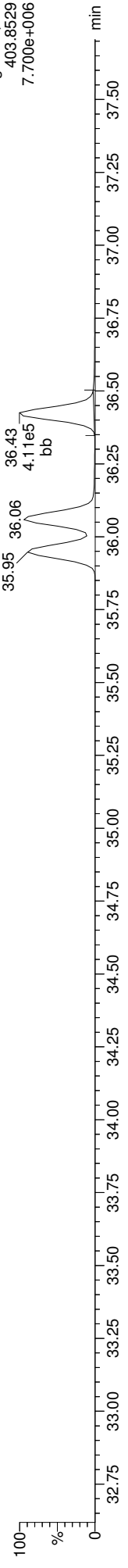
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13C-123789-HxCDD
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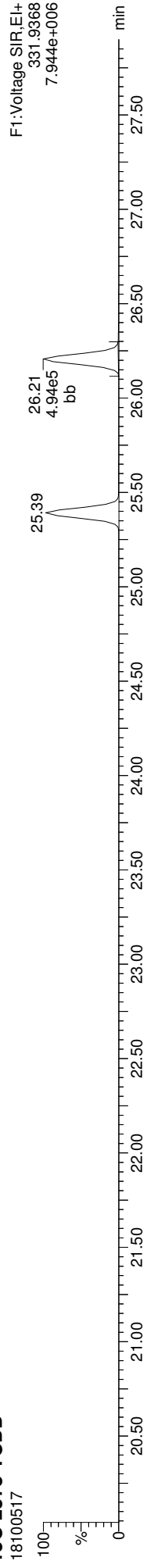
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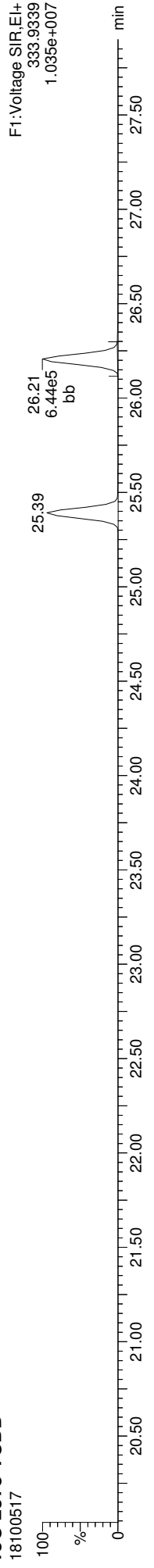
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MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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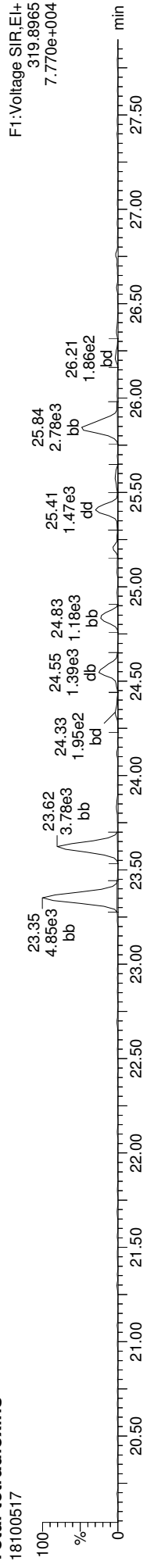
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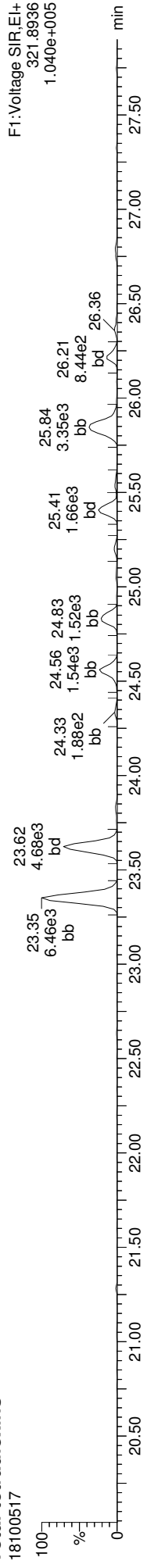
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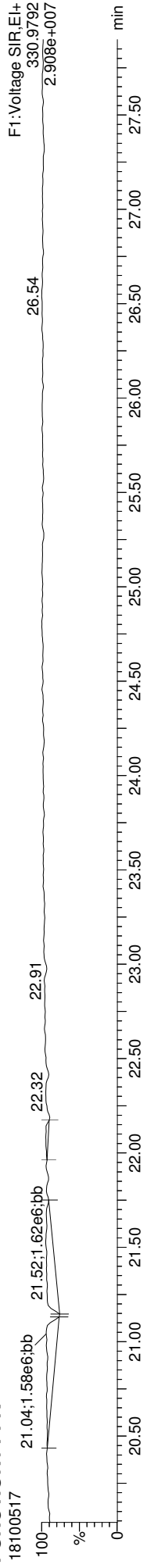
Total-tetradioxins



Total-tetradioxins

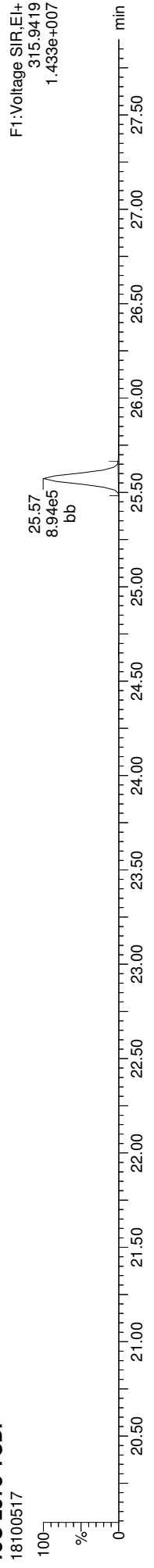


FUNCTION1 PFK

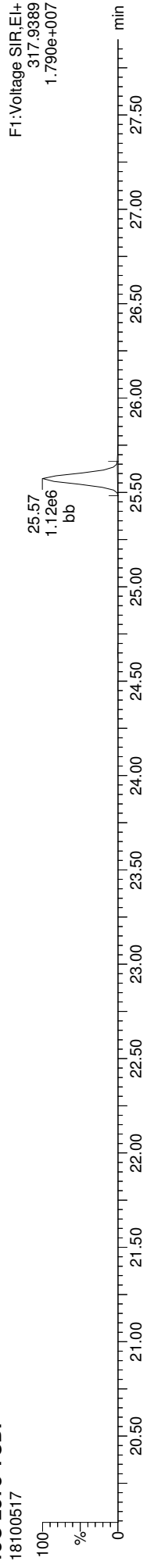


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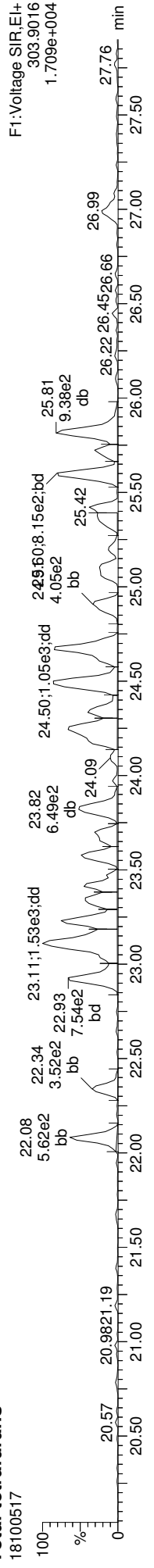
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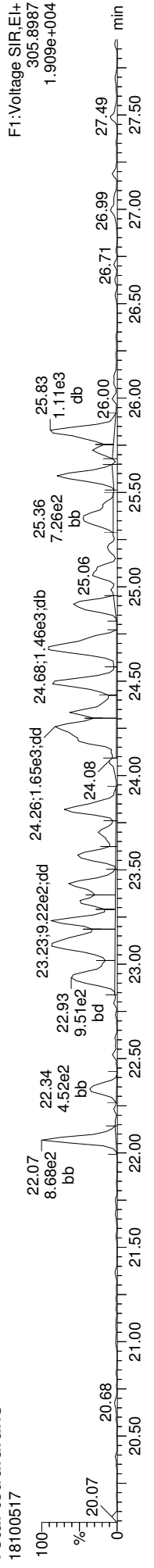
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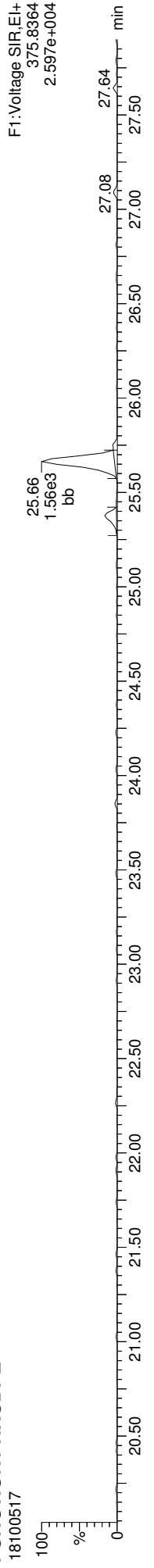
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Total-tetrafurans



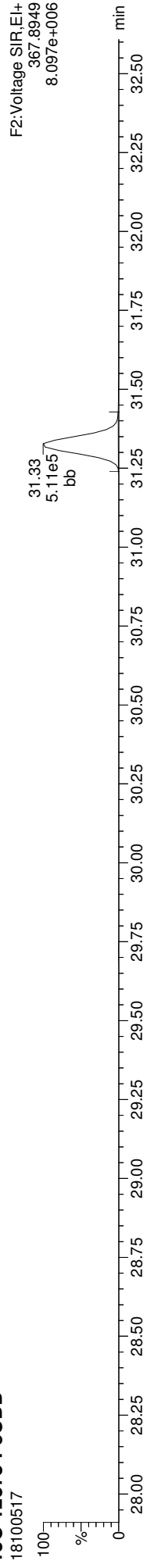
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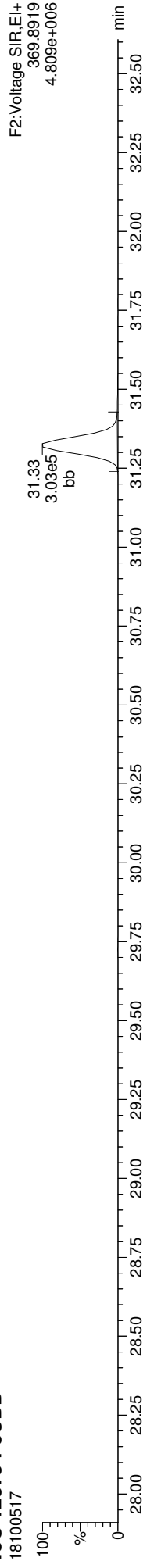
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MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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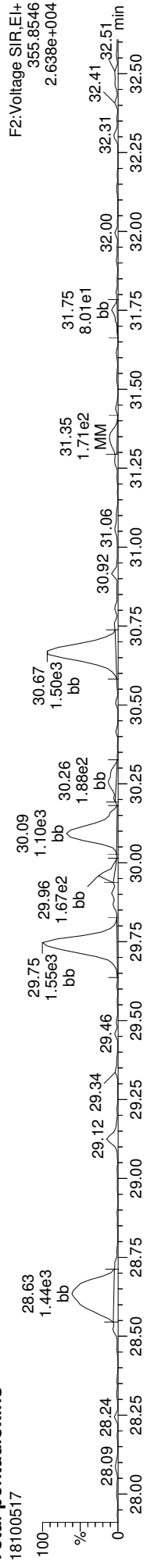
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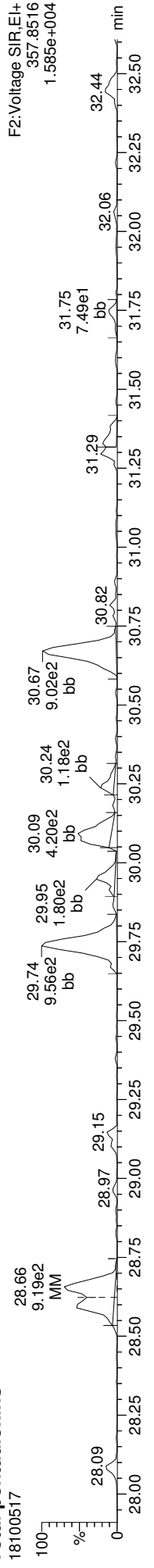
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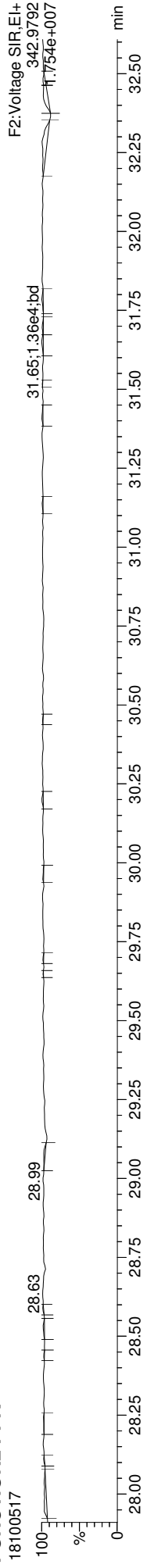
Total-pentadioxins



Total-pentadioxins



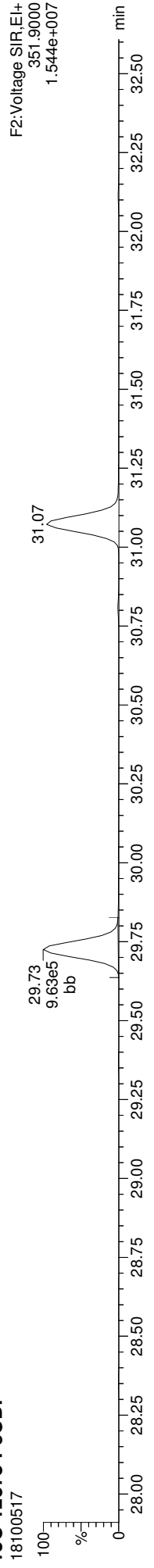
FUNCTION2 PFK



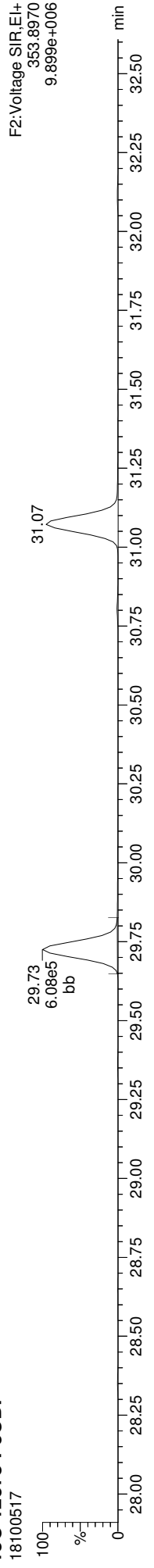
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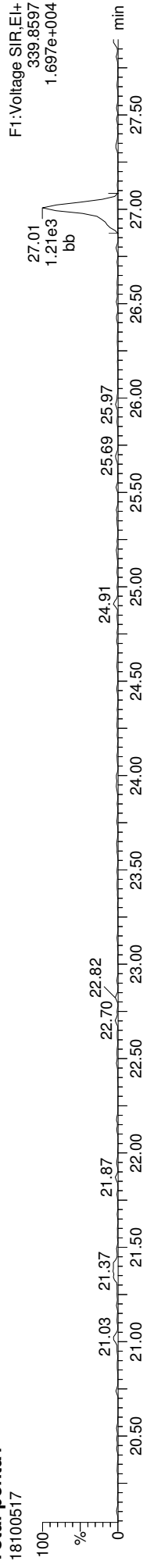
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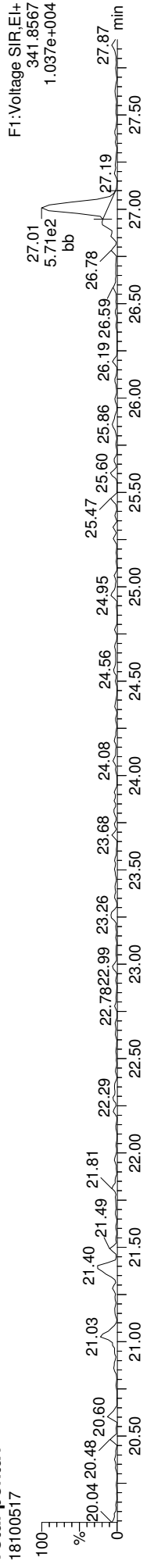
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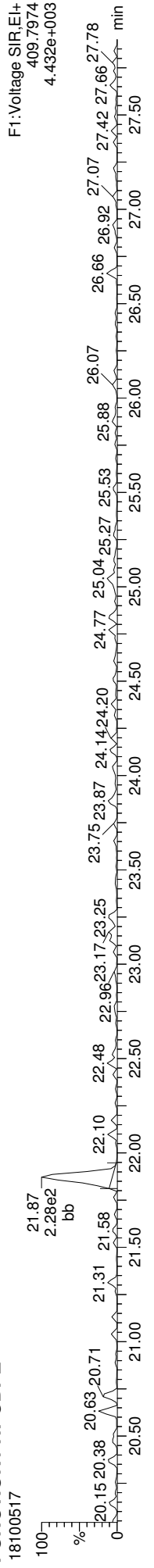
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Total-penta1



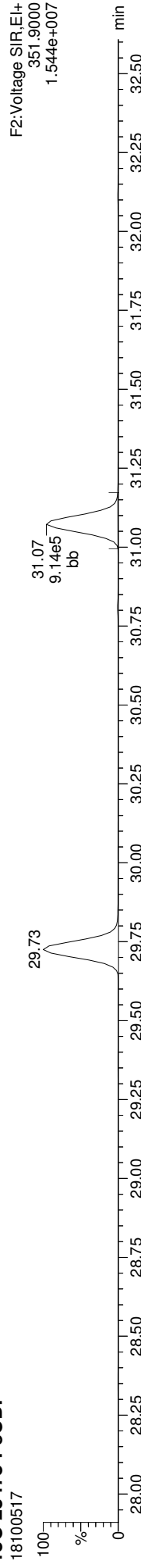
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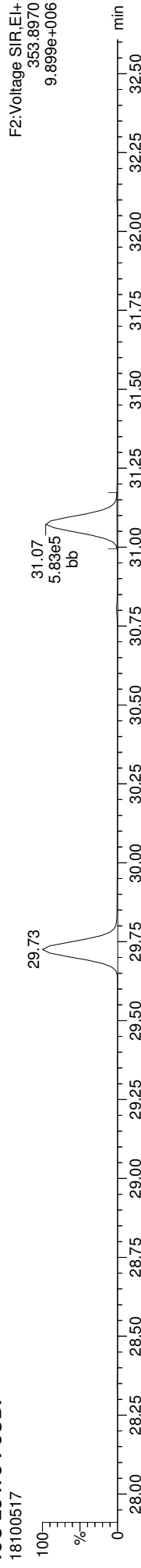
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
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Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

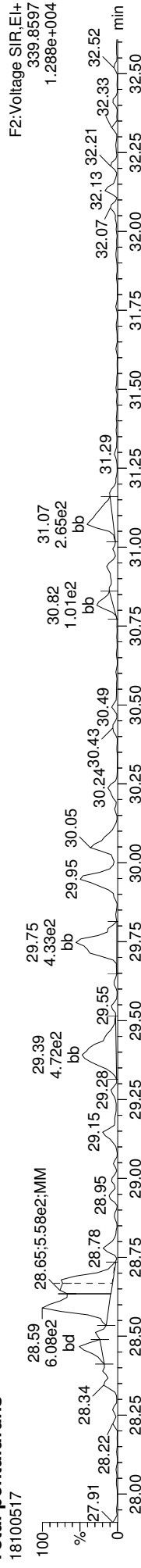
13C-23478-PeCDF



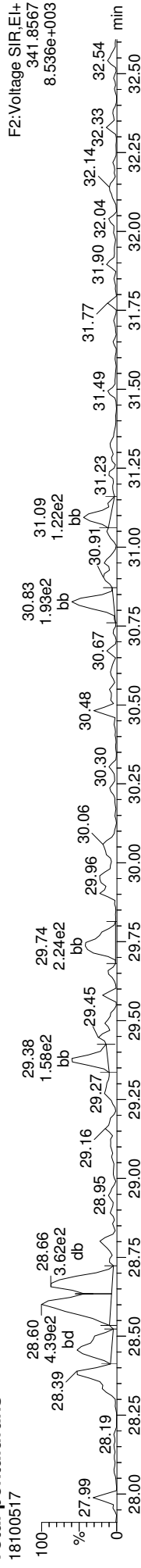
13C-23478-PeCDF



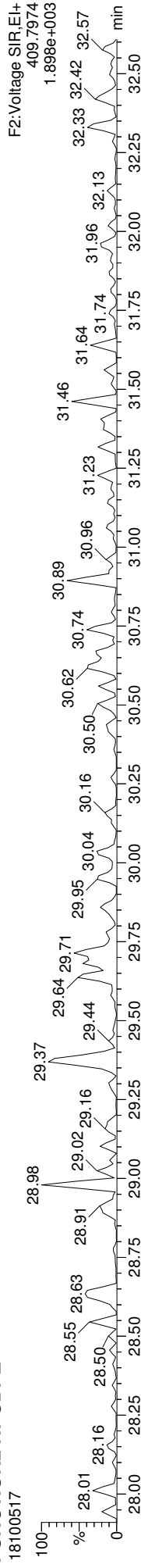
Total-pentafurans



Total-pentafurans



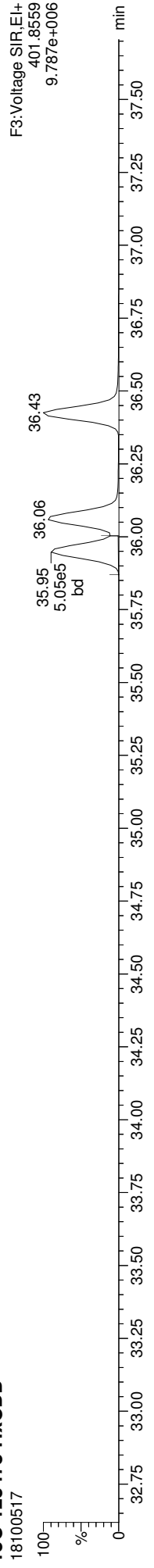
FUNCTION2 HPCDPE



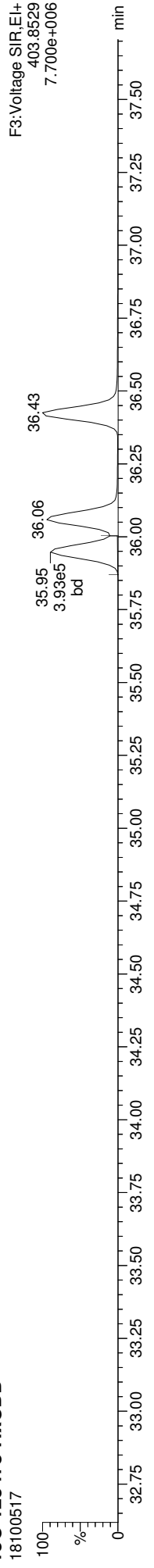
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

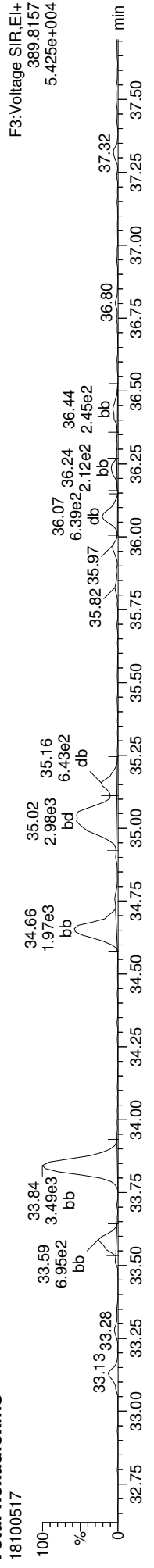
13C-123478-HxCDD



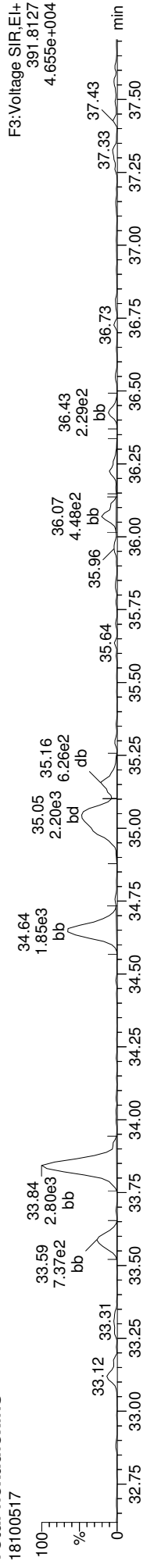
13C-123478-HxCDD



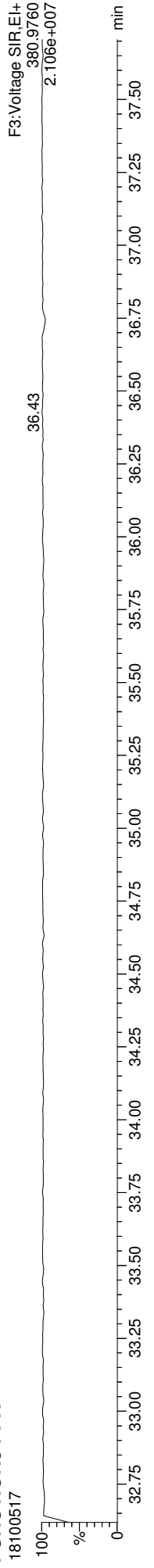
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

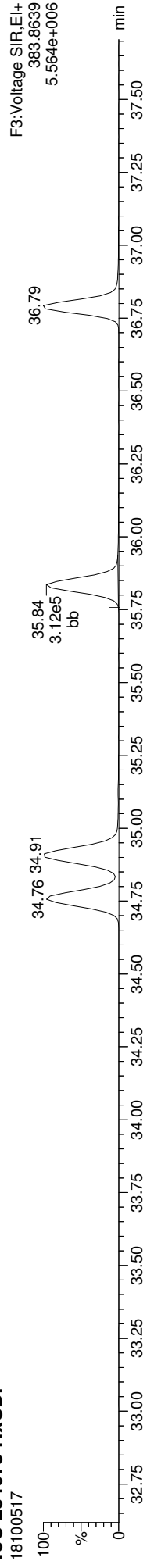


Quantify Sample Report

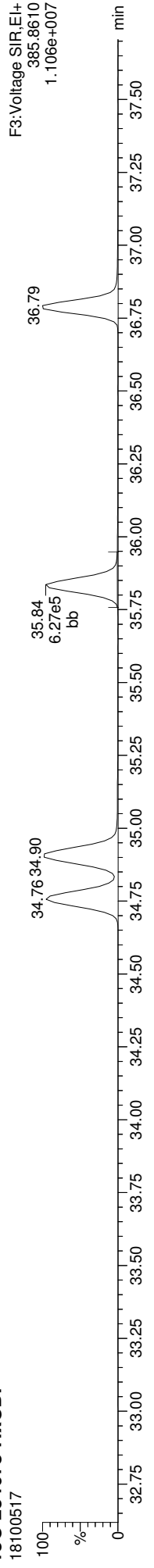
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

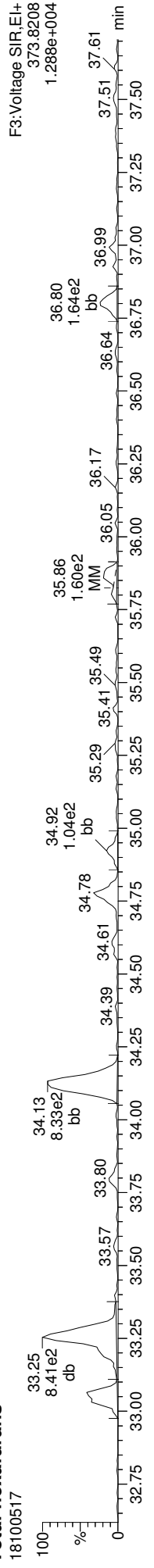
13C-234678-HxCDF



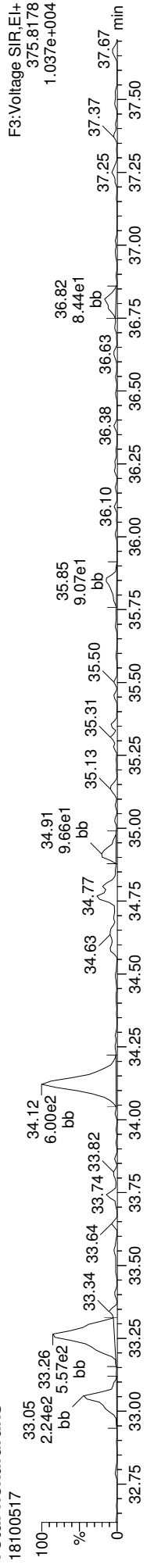
13C-234678-HxCDF



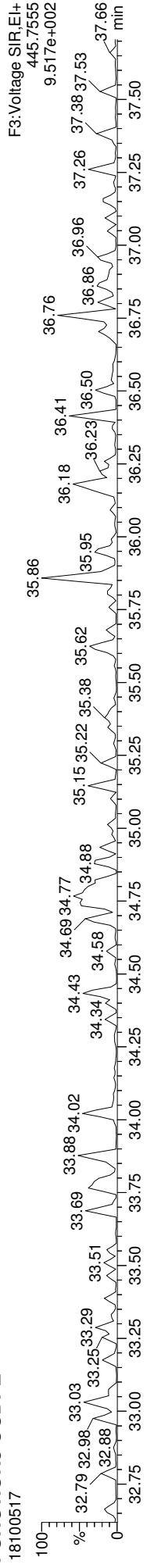
Total-hexafurans



Total-hexafurans



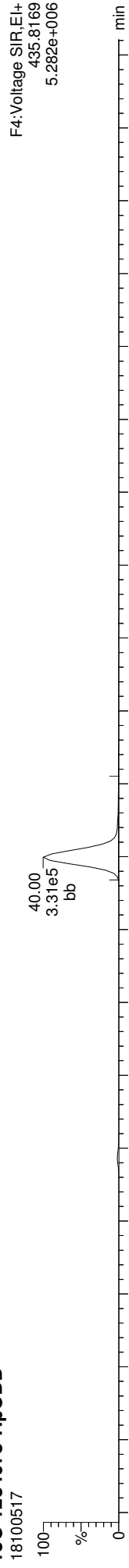
FUNCTION3 OCDPE



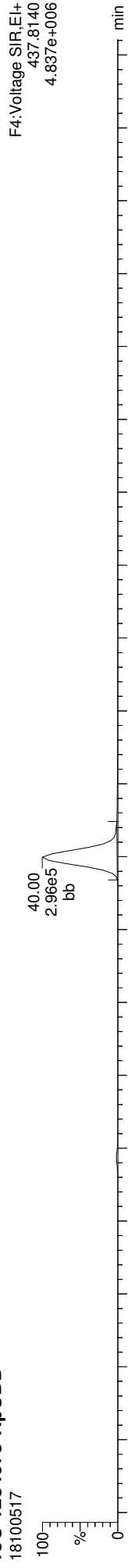
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

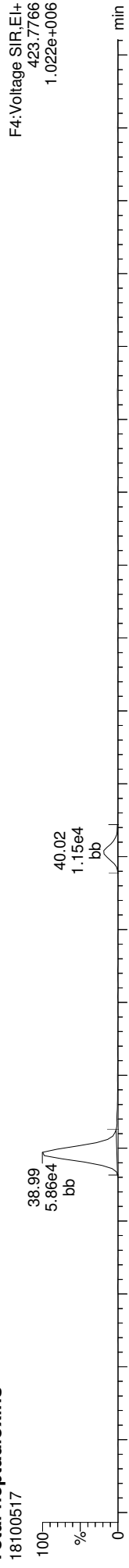
13C-1234678-HpCDD



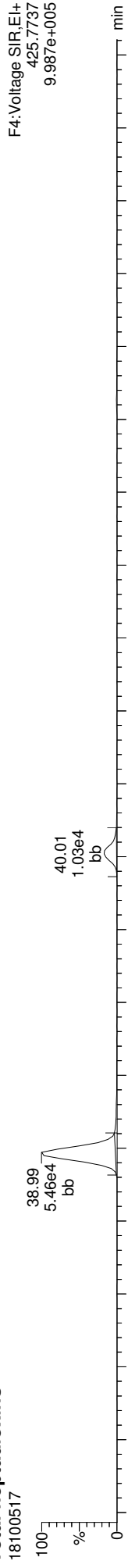
13C-1234678-HpCDD



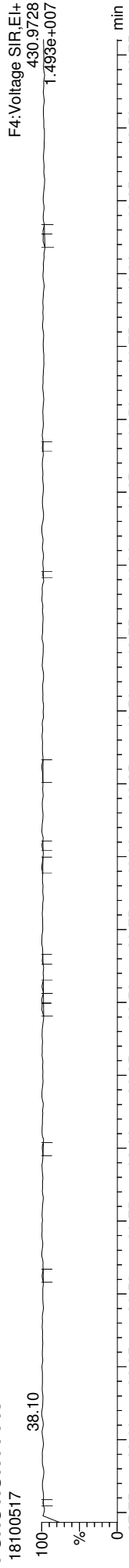
Total-heptadioxins



Total-heptadioxins



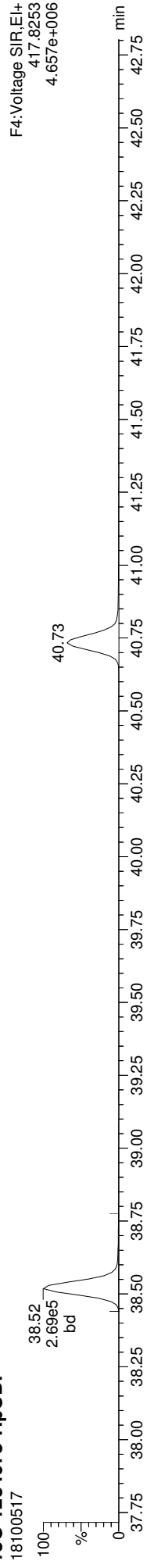
FUNCTION4 PFK



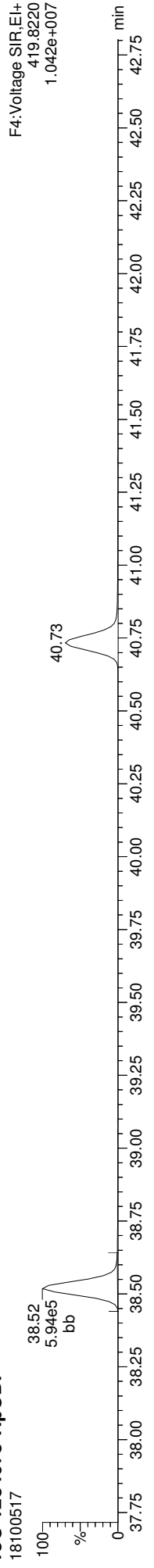
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

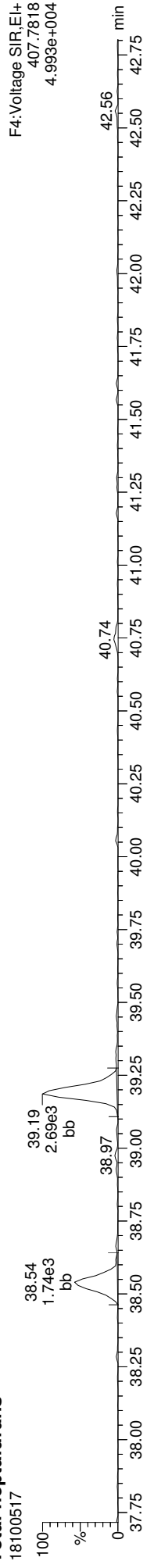
13C-1234678-HpCDF



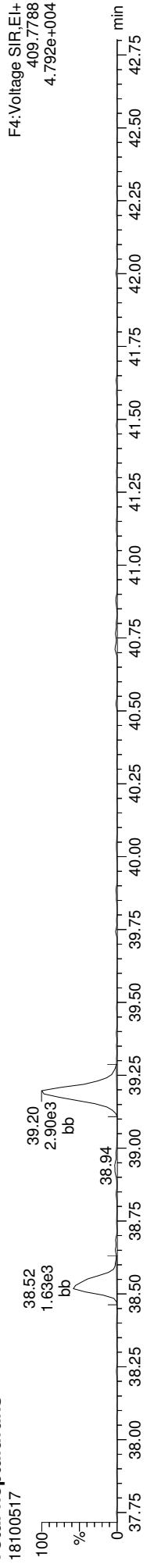
13C-1234678-HpCDF



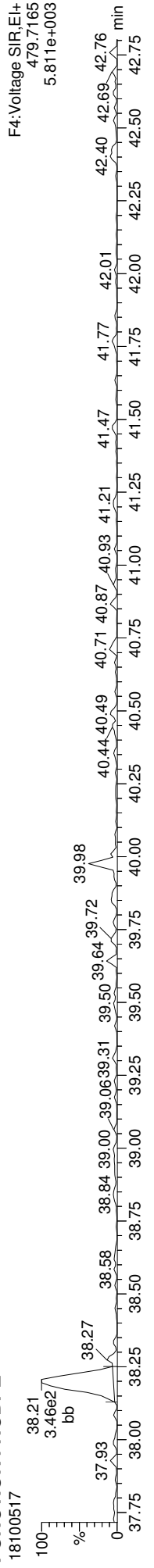
Total-heptafurans



Total-heptafurans



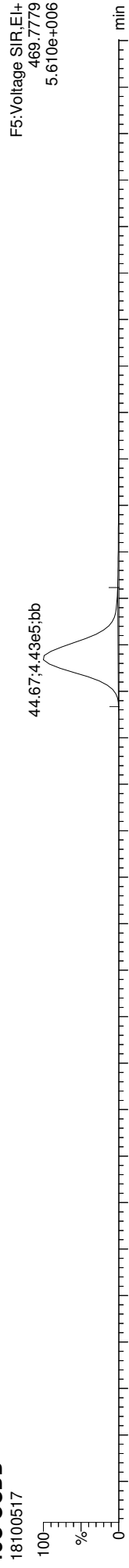
FUNCTION4 NCDPE



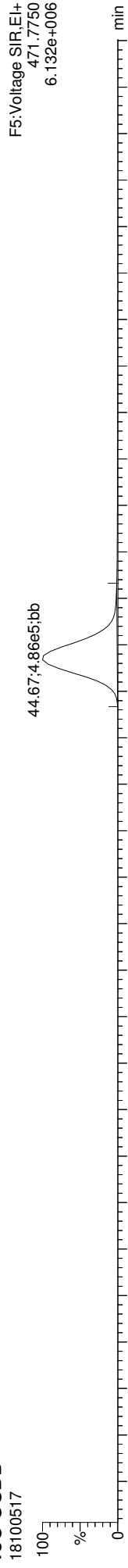
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

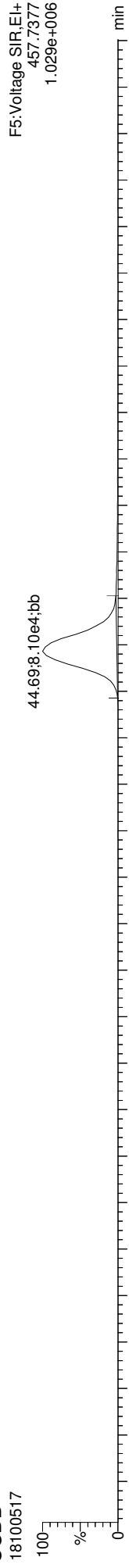
13C-OCDD



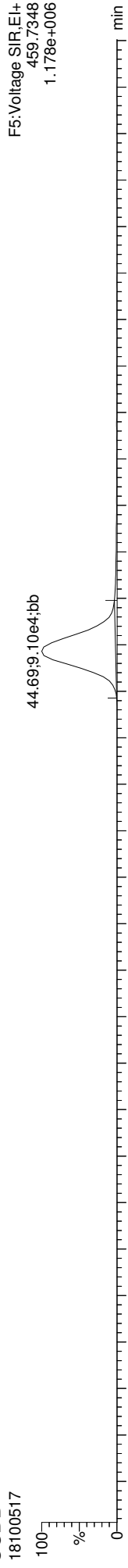
13C-OCDD



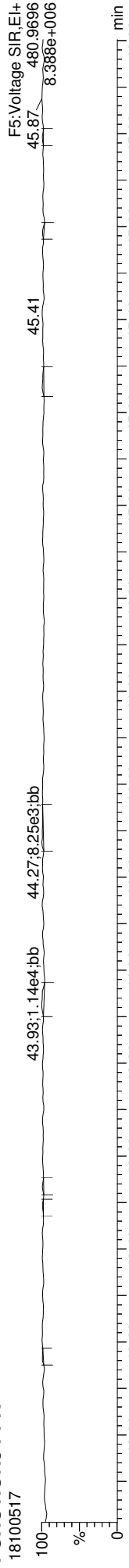
OCDD



OCDD



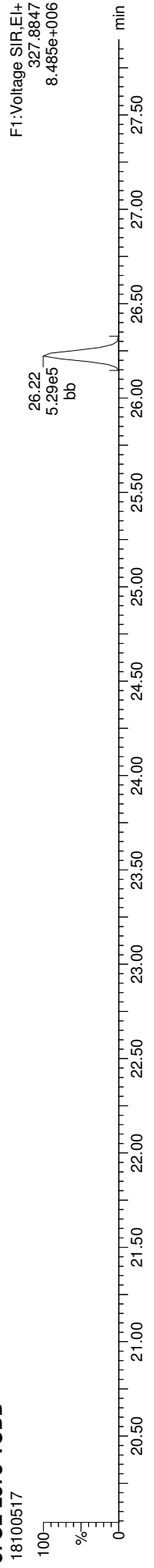
FUNCTION5 PFK



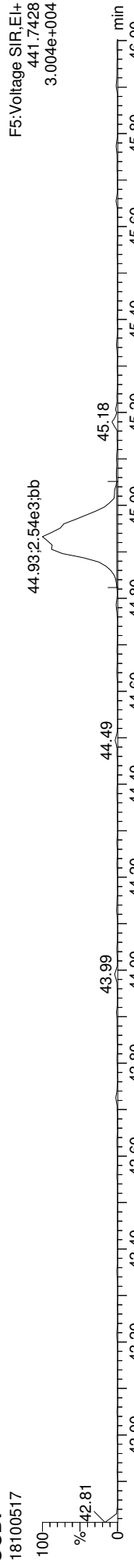
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:39:59 Pacific Daylight Time

ID: 1810285-37, Name: 18100517, Date: 05-Oct-2018, Time: 22:41:10, Conditions: AUTOSPEC01, User: PK

37CL-2378-TCDD



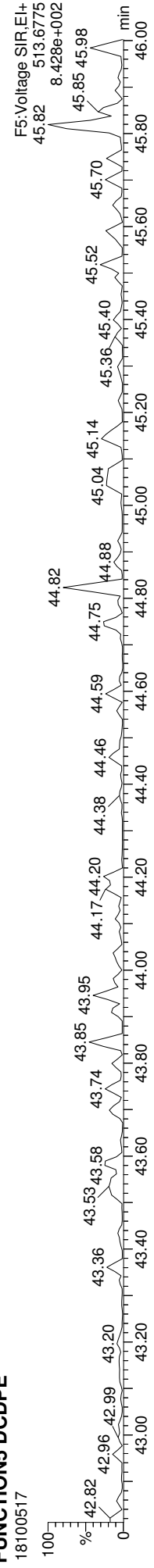
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 18I0285
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Water Laboratory ID: 18I0285-38 File ID: 18092712
 Sampled: 09/19/18 11:20 Prepared: 09/26/18 11:10 Analyzed: 09/27/18 22:43
 % Solids: N/A Preparation: EPA 1613 Initial/Final: 1075 mL / 20 uL
 Result Basis: Wet Sequence: SGI0436 Calibration: BH00058
 Batch: BGI0677 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.26	9.30	ND	pg/L	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.39	9.30	ND	pg/L	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.46	9.30	ND	pg/L	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.42	9.30	ND	pg/L	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.52	9.30	ND	pg/L	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.36	9.30	ND	pg/L	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.34	9.30	ND	pg/L	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.34	9.30	ND	pg/L	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.40	9.30	ND	pg/L	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.49	9.30	ND	pg/L	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.50	9.30	ND	pg/L	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.49	9.30	ND	pg/L	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.000	0.893-1.208	0.28	9.30	ND	pg/L	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.44	9.30	ND	pg/L	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.000	0.893-1.208	0.72	9.30	ND	pg/L	U
39001-02-0	OCDF	1	0.000	0.757-1.024	1.60	18.6	ND	pg/L	U
3268-87-9	OCDD	1	1.012	0.757-1.024		18.6	1.60	pg/L	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			9.30	ND	pg/L
41903-57-5	Total TCDD	1	0.000			9.30	ND	pg/L
30402-15-4	Total PeCDF	1	0.000			9.30	ND	pg/L
36088-22-9	Total PeCDD	1	0.000			9.30	ND	pg/L
55684-94-1	Total HxCDF	1	0.000			9.30	ND	pg/L
34465-46-8	Total HxCDD	1	0.000			9.30	ND	pg/L
38998-75-3	Total HpCDF	1	0.000			9.30	ND	pg/L
37871-00-4	Total HpCDD	1	0.000			9.30	ND	pg/L

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.000
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.693



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>18I0285-38</u>
Sampled:	<u>09/19/18 11:20</u>	Prepared:	<u>09/26/18 11:10</u>
Solids Wt%:	<u>N/A</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Wet</u>	Sequence:	<u>SGI0436</u>
Batch:	<u>BGI0677</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>18092712</u>
		Analyzed:	<u>09/27/18 22:43</u>
		Initial/Final:	<u>1075 mL / 20 uL</u>
		Calibration:	<u>BH00058</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.797	0.655-0.886		89.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.769	0.655-0.886		81.1	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.563	1.318-1.783		79.3	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.603	1.318-1.783		77.8	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.655	1.318-1.783		71.2	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.493	0.434-0.587		90.9	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.496	0.434-0.587		92.9	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.484	0.434-0.587		89.1	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.486	0.434-0.587		75.9	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.289	1.054-1.426		88.2	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.270	1.054-1.426		90.4	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.442	0.374-0.506		79.6	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.432	0.374-0.506		67.7	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.081	0.893-1.208		71.4	23 - 140 %	
13C12-OCDD		0.924	0.757-1.024		46.2	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			101	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\180927DIH.qld
 Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
 Printed: Friday, September 28, 2018 12:04:31 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820CIH.cdb 21 Aug 2018 11:13:54

ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF					0.834		0.770	285	608								
12378-PeCDF					0.852		1.550	457	770								
23478-PeCDF					0.944		1.550	457	770								
123478-HxCDF					0.963		1.240	386	247								
234678-HxCDF					0.991		1.240	386	247								
123678-HxCDF					0.917		1.240	386	247								
123789-HxCDF					0.938		1.240	386	247								
1234678-HpCDF					1.119		1.050	289	193								
1234789-HpCDF					1.162		1.050	289	193								
OCDF					1.145		0.890	339	485								
2378-TCDD					0.982		0.770	557	360								
12378-PeCDD					1.029		1.550	653	217								
123478-HxCDD					0.921		1.240	427	387								
123678-HxCDD					0.904		1.240	427	387								
123789-HxCDD					0.918		1.240	427	387								
1234678-HpCDD					1.046		1.050	440	297								
OCDD					0.984		0.890	206	194								
13C-2378-TCDF	44.699	1.001	9.169e1	9.060e1	0.984	1.012	0.890	206	194	2.04e3	1.65e3	9.9	YES	NO	MM	MM	0.086
13C-12378-PeCDF	25.588	1.008	6.641e5	8.332e5	1.847	0.797	0.770	4510	2141	1.02e7	1.27e7	2251.2	YES	NO	bb	bb	89.364
13C-23478-PeCDF	29.740	1.171	6.834e5	4.374e5	1.558	1.563	1.550	2083	1756	1.06e7	6.78e6	5082.5	YES	NO	bb	bb	79.301
13C-23478-PeCDF	31.087	1.224	6.713e5	4.188e5	1.544	1.603	1.550	2083	1756	1.06e7	6.65e6	5111.5	YES	NO	bb	bb	77.828
13C-123478-HxCDF	34.771	0.954	2.226e5	4.520e5	1.152	0.493	0.510	1554	2134	3.39e6	6.88e6	2181.0	YES	NO	bd	bd	90.890
13C-123678-HxCDF	34.915	0.958	2.433e5	4.900e5	1.225	0.496	0.510	1554	2134	3.72e6	7.32e6	2392.8	YES	NO	db	db	92.939
13C-234678-HxCDF	35.839	0.984	2.065e5	4.269e5	1.104	0.484	0.510	1554	2134	3.44e6	6.92e6	2215.7	YES	NO	bb	bd	89.114
13C-123789-HxCDF	36.796	1.010	1.671e5	3.441e5	1.046	0.486	0.510	1554	2134	3.12e6	6.29e6	2004.5	YES	NO	bb	bb	75.918
13C-1234678-HpCDF	38.521	1.057	1.580e5	3.573e5	1.004	0.442	0.440	1269	1841	2.66e6	6.18e6	2099.6	YES	NO	bb	bb	79.647
13C-1234789-HpCDF	40.736	1.118	1.051e5	2.432e5	0.799	0.432	0.440	1269	1841	1.57e6	3.62e6	1236.3	YES	NO	bd	bb	67.715
13C-1234-TCDD	25.391	0.000	3.936e5	5.137e5	1.000	0.766	0.770	1420	1062	6.04e6	7.84e6	4250.4	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.207	1.032	3.747e5	4.872e5	1.171	0.769	0.770	1420	1062	5.77e6	7.53e6	4060.0	YES	NO	bb	bb	81.115
13C-12378-PeCDD	31.331	1.234	3.566e5	2.155e5	0.886	1.655	1.550	976	854	5.65e6	3.43e6	5790.7	YES	NO	bb	bb	71.165
13C-123478-HxCDD	35.950	0.987	3.283e5	2.547e5	1.027	1.289	1.240	1253	1154	5.72e6	4.46e6	4562.8	YES	NO	bd	bd	88.158
13C-123678-HxCDD	36.062	0.990	3.439e5	2.707e5	1.055	1.270	1.240	1253	1154	5.66e6	4.50e6	4519.6	YES	NO	db	db	90.447
13C-1234678-HpCDD	40.002	1.098	1.789e5	1.656e5	0.749	1.081	1.050	1311	2482	2.83e6	2.59e6	2158.5	YES	NO	bb	bb	71.409
13C-OCDD	44.671	1.226	2.070e5	2.239e5	0.725	0.924	0.890	1890	985	2.42e6	2.71e6	1281.0	YES	NO	bb	bb	92.323
13C-123789-HxCDD	36.429	0.000	3.590e5	2.850e5	1.000	1.260	1.240	1253	1154	6.52e6	5.12e6	5203.1	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.237	1.033	4.087e5		1.121			622		6.46e6		10382.7	YES		bb		40.202

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1368-TCDF					1.020		0.770	285	608								
1289-TCDF					0.818		0.770	285	608								
13468-PECDF					1.163		1.550	262	603								
12389-PECDF					0.912		1.550	457	770								
123468-HXCDF					1.051		1.240	386	247								
1368-TCDD					1.026		0.770	557	360								
1289-TCDD					0.938		0.770	557	360								
12479-PECDD					1.807		1.550	653	217								
12389-PECDD					1.326		1.550	653	217								
124679-HXCDD					1.031		1.240	427	387								
1234679-HPCDD					1.228		1.050	440	297								
Total-tetrafurans			0.000e0		0.891			285		0.00e0							
Total-penta1			0.000e0					262		0.00e0							
Total-pentafurans			0.000e0		0.903			457		0.00e0							
Total-hexafurans			0.000e0		0.972			386		0.00e0							
Total-heptafurans			0.000e0		1.141			289		0.00e0							
Total-Furans			0.000e0		0.989			285		0.00e0							
Total-tetraioxins			0.000e0		0.982			557		0.00e0							
Total-pentadioxins			0.000e0		1.387			653		0.00e0							
Total-hexadioxins			0.000e0		0.944			427		0.00e0							
Total-heptadioxins			0.000e0		1.137			440		0.00e0							
Total-Dioxins			9.169e1		1.088			557		2.04e3							0.086
Total-TEQ			9.169e1					557		2.04e3							0.086
FUNCTION1 PFK			6.656e6					364252		6.26e7							
FUNCTION2 PFK			2.572e5					241248		7.00e6							0.000
FUNCTION3 PFK			3.520e5					295031		8.86e6							0.000
FUNCTION4 PFK			1.578e5					246857		5.38e6							
FUNCTION5 PFK			1.038e5					140079		3.74e6							
FUNCTION1 HXGD...			0.000e0					201		0.00e0							
FUNCTION1 HPCD...			0.000e0					457		0.00e0							
FUNCTION2 HPCD...			0.000e0					511		0.00e0							
FUNCTION3 OCDPE			0.000e0					247		0.00e0							
FUNCTION4 NCDPE			0.000e0					345		0.00e0							
FUNCTION5 DCDPE			0.000e0					222		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-38, **Name:** 18092712, **Date:** 27-Sep-2018, **Time:** 22:43:30, **Conditions:** AUTOSPEC01, **User:** PK

TF

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HF

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HPF

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Furans, TF, PP, PF, HF, HPF, OF

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

TD

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PD

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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HD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

HPD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

Dioxins,TD,PD,HD,HPD,OD

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	44.70	9.169e1	9.060e1	0.984	1.01	0.89	9.9	YES	NO	MM	MM	0.086

TotalTEQ,Furans,Dioxins

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.84	1.169e4					1.3	NO		db		
2	FUNCTION1 PFK	21.77	2.290e4					1.1	NO		bd		
3	FUNCTION1 PFK	21.28	3.761e4					1.4	NO		bb		
4	FUNCTION1 PFK	21.18	5.126e4					1.9	NO		bb		
5	FUNCTION1 PFK	20.71	7.173e5					11.5	YES		db		
6	FUNCTION1 PFK	20.65	2.816e5					13.3	YES		dd		
7	FUNCTION1 PFK	20.50	1.607e6					19.0	YES		dd		
8	FUNCTION1 PFK	20.35	7.823e5					24.2	YES		dd		
9	FUNCTION1 PFK	20.21	8.602e5					28.4	YES		dd		
10	FUNCTION1 PFK	20.15	1.490e6					30.4	YES		bd		
11	FUNCTION1 PFK	24.62	5.276e4					2.2	NO		bd		
12	FUNCTION1 PFK	24.32	2.055e3					0.4	NO		bb		
13	FUNCTION1 PFK	24.23	1.642e4					1.4	NO		db		
14	FUNCTION1 PFK	24.17	7.663e3					0.7	NO		bd		
15	FUNCTION1 PFK	23.87	3.694e4					1.8	NO		bb		
16	FUNCTION1 PFK	23.64	6.532e3					0.6	NO		bb		
17	FUNCTION1 PFK	23.44	6.420e3					0.6	NO		bb		
18	FUNCTION1 PFK	23.26	2.561e4					0.9	NO		db		
19	FUNCTION1 PFK	23.22	3.643e3					0.5	NO		bd		
20	FUNCTION1 PFK	23.03	6.222e4					1.7	NO		bb		
21	FUNCTION1 PFK	22.88	2.521e3					0.5	NO		bb		
22	FUNCTION1 PFK	22.48	1.712e4					1.3	NO		db		
23	FUNCTION1 PFK	22.42	3.713e4					2.0	NO		bd		
24	FUNCTION1 PFK	22.29	2.129e4					1.4	NO		bb		
25	FUNCTION1 PFK	22.19	2.496e4					1.2	NO		bb		
26	FUNCTION1 PFK	21.99	6.550e4					1.2	NO		bb		
27	FUNCTION1 PFK	27.72	1.455e4					1.2	NO		bd		
28	FUNCTION1 PFK	27.26	2.227e4					1.3	NO		bb		
29	FUNCTION1 PFK	26.95	1.967e3					0.4	NO		bb		
30	FUNCTION1 PFK	26.78	2.984e4					1.8	NO		bb		
31	FUNCTION1 PFK	26.72	1.192e4					0.7	NO		bb		
32	FUNCTION1 PFK	26.48	3.209e4					1.4	NO		db		
33	FUNCTION1 PFK	26.39	2.124e4					1.2	NO		bd		
34	FUNCTION1 PFK	26.25	4.083e4					1.6	NO		db		
35	FUNCTION1 PFK	26.21	3.519e4					2.5	NO		bd		
36	FUNCTION1 PFK	25.86	7.103e3					0.7	NO		bb		
37	FUNCTION1 PFK	25.68	1.469e4					0.9	NO		bb		

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PFK1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	25.57	3.212e4				0.9	NO		bb		
39	FUNCTION1 PFK	25.32	2.827e3				0.5	NO		bb		
40	FUNCTION1 PFK	25.26	9.003e3				0.6	NO		bb		
41	FUNCTION1 PFK	25.15	1.753e3				0.3	NO		bb		
42	FUNCTION1 PFK	24.77	7.528e4				1.9	NO		db		
43	FUNCTION1 PFK	27.85	3.620e4				1.6	NO		bb		
44	FUNCTION1 PFK	27.75	1.554e4				1.2	NO		db		

PFK2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.56	1.483e4				2.0	NO		dd		0.000
2	FUNCTION2 PFK	30.52	7.526e3				1.3	NO		bd		0.000
3	FUNCTION2 PFK	30.46	1.197e4				1.7	NO		db		0.000
4	FUNCTION2 PFK	30.39	3.920e4				2.3	NO		bd		0.000
5	FUNCTION2 PFK	30.00	1.330e4				1.7	NO		bb		0.000
6	FUNCTION2 PFK	29.74	1.207e4				1.6	NO		bb		0.000
7	FUNCTION2 PFK	29.41	8.353e3				1.4	NO		bb		0.000
8	FUNCTION2 PFK	29.25	8.024e3				1.4	NO		bb		0.000
9	FUNCTION2 PFK	29.11	2.188e4				2.2	NO		bb		0.000
10	FUNCTION2 PFK	28.85	5.339e3				1.0	NO		bb		0.000
11	FUNCTION2 PFK	28.36	1.912e4				1.1	NO		bb		0.000
12	FUNCTION2 PFK	28.14	2.758e4				2.3	NO		bb		0.000
13	FUNCTION2 PFK	28.01	1.378e3				0.5	NO		bb		0.000
14	FUNCTION2 PFK	32.54	1.390e4				1.7	NO		bb		0.000
15	FUNCTION2 PFK	32.46	4.624e3				0.9	NO		bb		0.000
16	FUNCTION2 PFK	32.40	8.725e3				1.3	NO		bb		0.000
17	FUNCTION2 PFK	32.29	2.745e3				0.6	NO		bb		0.000
18	FUNCTION2 PFK	31.22	2.026e3				0.8	NO		bb		0.000
19	FUNCTION2 PFK	30.73	8.645e3				0.8	NO		bb		0.000
20	FUNCTION2 PFK	30.62	2.600e4				2.4	NO		db		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.71	4.948e3					0.6	NO		bb		0.000
2	FUNCTION3 PFK	33.62	4.658e3					0.8	NO		bb		0.000
3	FUNCTION3 PFK	33.42	7.554e3					1.1	NO		bb		0.000
4	FUNCTION3 PFK	33.18	2.229e4					1.4	NO		bb		0.000
5	FUNCTION3 PFK	33.01	1.367e4					1.5	NO		bb		0.000
6	FUNCTION3 PFK	32.91	3.666e4					1.4	NO		db		0.000
7	FUNCTION3 PFK	32.81	1.459e4					1.8	NO		bd		0.000
8	FUNCTION3 PFK	32.67	4.109e3					0.7	NO		bb		0.000
9	FUNCTION3 PFK	37.29	2.567e4					1.7	NO		dd		0.000
10	FUNCTION3 PFK	37.21	2.876e4					2.1	NO		bd		0.000
11	FUNCTION3 PFK	36.92	4.532e3					0.6	NO		bb		0.000
12	FUNCTION3 PFK	36.80	1.608e4					1.6	NO		bb		0.000
13	FUNCTION3 PFK	36.61	3.591e4					2.0	NO		bb		0.000
14	FUNCTION3 PFK	36.44	4.095e3					0.6	NO		bb		0.000
15	FUNCTION3 PFK	35.75	1.699e4					1.4	NO		bb		0.000
16	FUNCTION3 PFK	35.54	9.565e3					1.0	NO		bb		0.000
17	FUNCTION3 PFK	35.20	9.457e3					1.0	NO		bb		0.000
18	FUNCTION3 PFK	34.98	6.558e3					0.9	NO		bb		0.000
19	FUNCTION3 PFK	34.68	9.542e3					1.0	NO		bb		0.000
20	FUNCTION3 PFK	34.48	4.547e3					0.7	NO		bb		0.000
21	FUNCTION3 PFK	34.45	1.354e3					0.4	NO		bb		0.000
22	FUNCTION3 PFK	34.11	4.903e3					0.6	NO		bb		0.000
23	FUNCTION3 PFK	33.85	4.078e3					0.7	NO		bb		0.000
24	FUNCTION3 PFK	33.80	7.954e3					1.0	NO		bb		0.000
25	FUNCTION3 PFK	37.56	1.426e4					1.2	NO		bb		0.000
26	FUNCTION3 PFK	37.41	3.932e4					2.1	NO		db		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.11	2.371e3					0.6	NO		bb		
2	FUNCTION4 PFK	39.93	5.368e3					1.2	NO		bb		
3	FUNCTION4 PFK	39.88	8.844e3					1.4	NO		bb		
4	FUNCTION4 PFK	39.62	3.265e3					0.7	NO		bb		
5	FUNCTION4 PFK	39.38	6.872e3					1.1	NO		bb		
6	FUNCTION4 PFK	38.82	3.348e3					0.7	NO		bb		
7	FUNCTION4 PFK	38.39	2.975e3					0.8	NO		db		
8	FUNCTION4 PFK	38.35	9.188e3					1.3	NO		dd		
9	FUNCTION4 PFK	38.30	9.329e3					1.3	NO		bd		
10	FUNCTION4 PFK	38.10	8.720e3					1.3	NO		db		
11	FUNCTION4 PFK	38.07	1.259e4					1.5	NO		bd		
12	FUNCTION4 PFK	37.84	1.284e4					1.4	NO		db		
13	FUNCTION4 PFK	37.76	3.301e4					2.2	NO		bd		
14	FUNCTION4 PFK	42.43	4.074e3					0.8	NO		bb		
15	FUNCTION4 PFK	42.37	1.259e4					1.7	NO		bb		
16	FUNCTION4 PFK	41.98	6.494e3					1.1	NO		bb		
17	FUNCTION4 PFK	40.79	2.760e3					0.6	NO		bb		
18	FUNCTION4 PFK	40.73	5.632e3					1.0	NO		bb		
19	FUNCTION4 PFK	40.31	6.367e3					0.8	NO		bb		
20	FUNCTION4 PFK	40.27	1.151e3					0.4	NO		bb		

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PFK5

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.61	1.296e3				0.6	NO		bb		
2	FUNCTION5 PFK	43.42	3.975e3				1.4	NO		bb		
3	FUNCTION5 PFK	43.32	5.336e2				0.4	NO		bb		
4	FUNCTION5 PFK	43.17	1.798e3				0.7	NO		bb		
5	FUNCTION5 PFK	43.14	2.154e3				0.8	NO		db		
6	FUNCTION5 PFK	43.09	5.964e3				1.7	NO		bd		
7	FUNCTION5 PFK	43.04	5.119e3				1.7	NO		db		
8	FUNCTION5 PFK	43.02	2.432e3				0.9	NO		bd		
9	FUNCTION5 PFK	45.82	2.334e3				0.9	NO		bb		
10	FUNCTION5 PFK	45.69	2.913e3				1.2	NO		db		
11	FUNCTION5 PFK	45.66	8.455e3				1.4	NO		bd		
12	FUNCTION5 PFK	45.53	4.216e3				1.4	NO		bb		
13	FUNCTION5 PFK	45.42	2.193e3				0.9	NO		bb		
14	FUNCTION5 PFK	45.27	1.768e3				0.7	NO		bb		
15	FUNCTION5 PFK	44.94	2.638e3				0.9	NO		bb		
16	FUNCTION5 PFK	44.90	4.150e3				1.3	NO		db		
17	FUNCTION5 PFK	44.86	4.852e3				1.3	NO		bd		
18	FUNCTION5 PFK	44.65	1.290e4				1.2	NO		bb		
19	FUNCTION5 PFK	44.52	4.896e3				1.7	NO		db		
20	FUNCTION5 PFK	44.48	1.532e4				2.0	NO		bd		
21	FUNCTION5 PFK	44.18	2.180e3				0.8	NO		bb		
22	FUNCTION5 PFK	43.97	6.898e3				1.3	NO		bb		
23	FUNCTION5 PFK	43.83	4.838e3				1.5	NO		bb		

ETHERS1

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

ETHERS2

Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1												

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ETHERS3

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS4

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS6

1	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

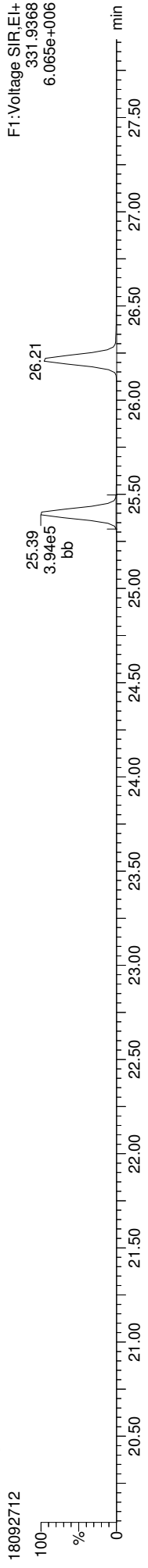
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Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
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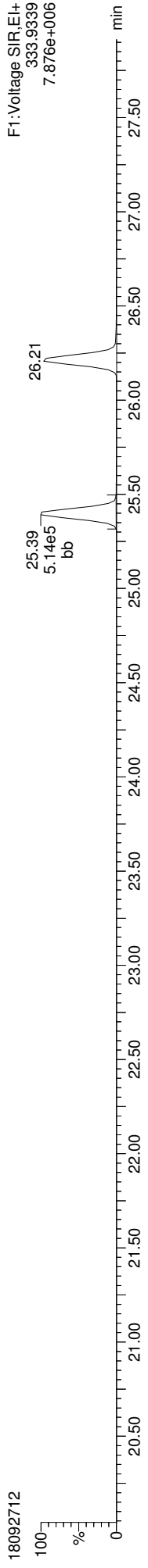
Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

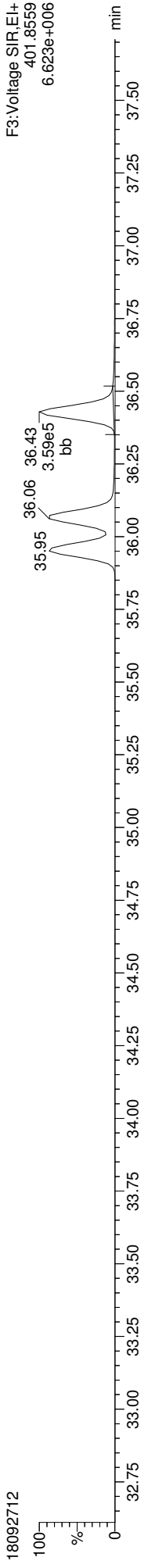
13C-1234-TCDD



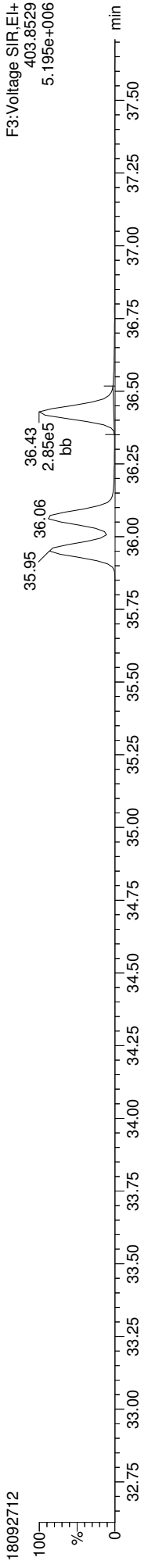
13C-1234-TCDD



13C-123789-HxCDD



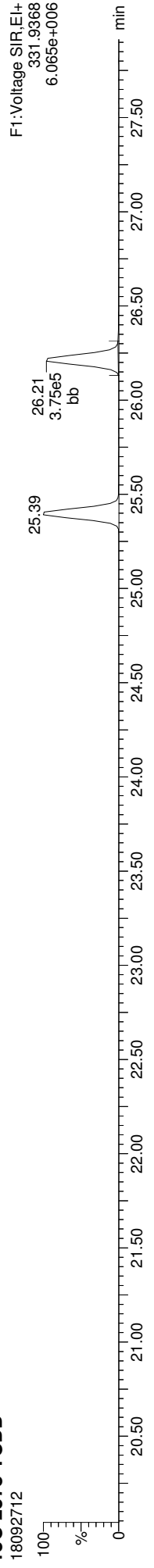
13C-123789-HxCDD



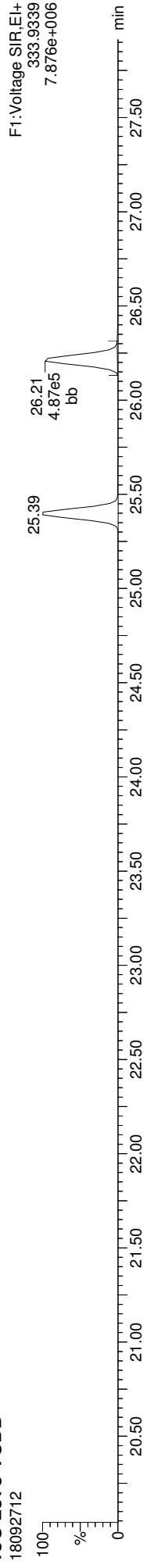
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Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
Printed: Friday, September 28, 2018 12:04:31 Pacific Daylight Time

ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

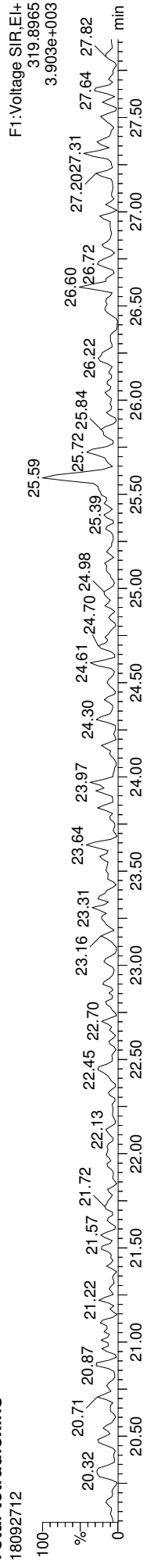
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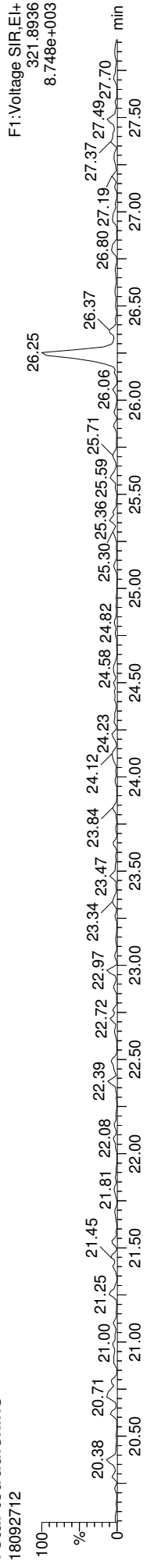
13C-2378-TCDD



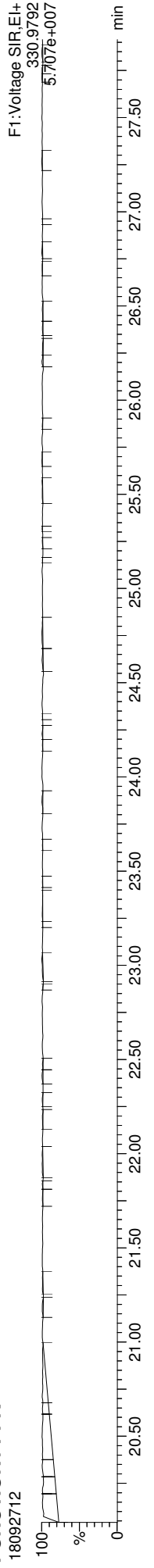
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK

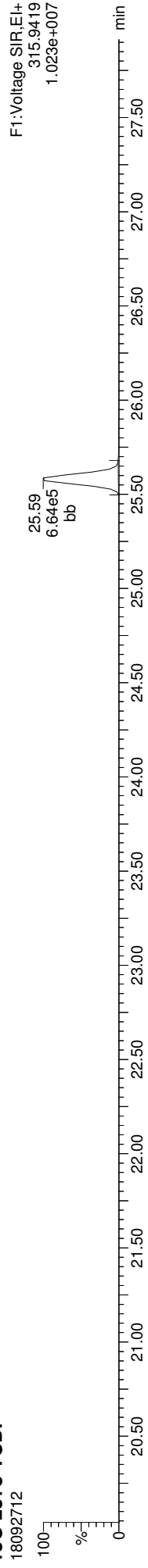


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

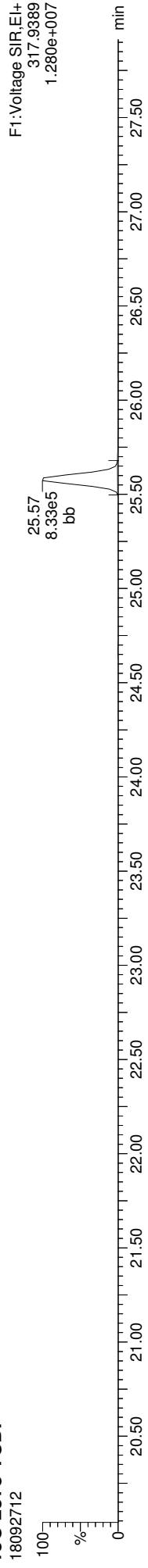
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Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
Printed: Friday, September 28, 2018 12:04:31 Pacific Daylight Time

ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

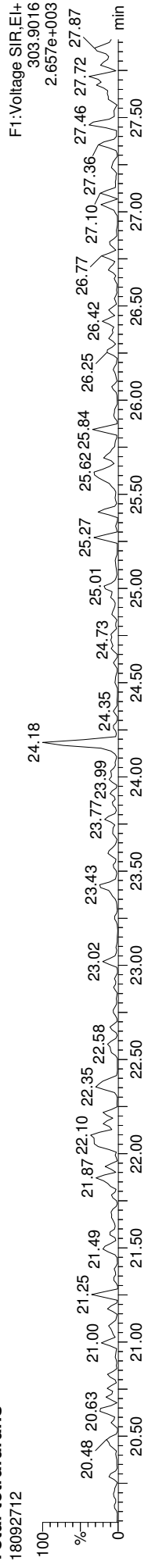
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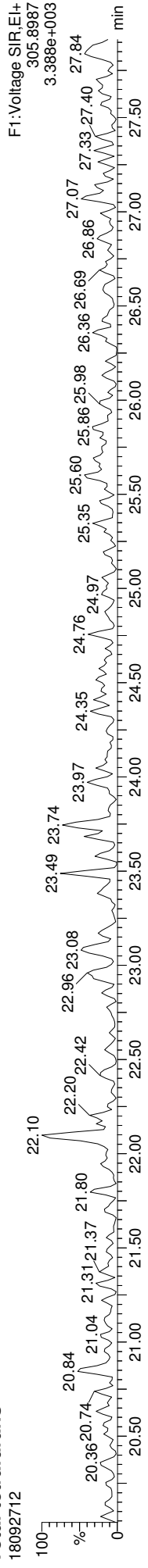
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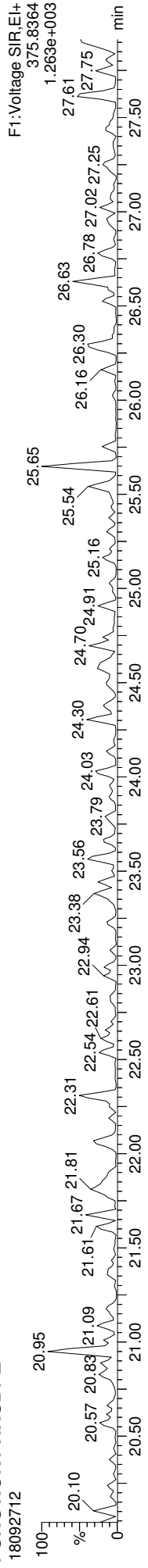
Total-tetrafurans



Total-tetrafurans



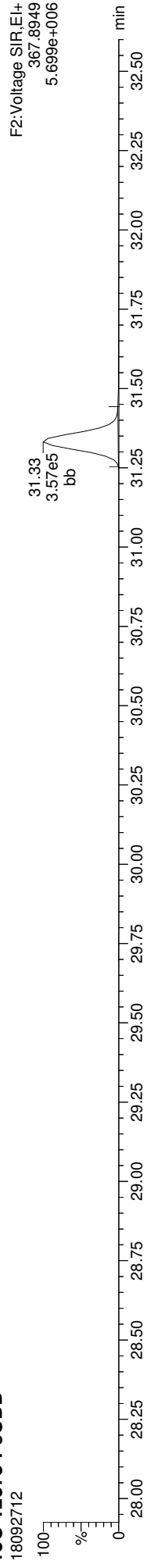
FUNCTION1 HXCDFE



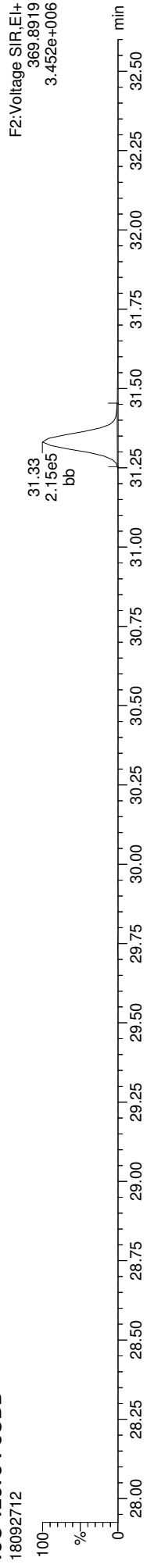
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Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
Printed: Friday, September 28, 2018 12:04:31 Pacific Daylight Time

ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

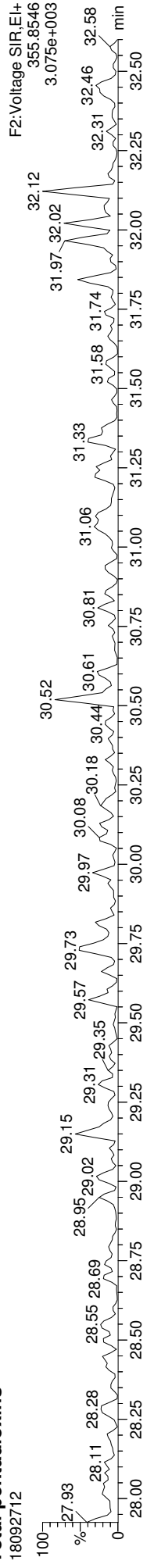
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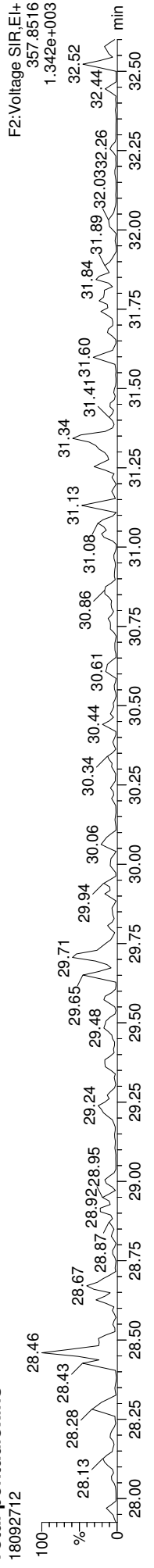
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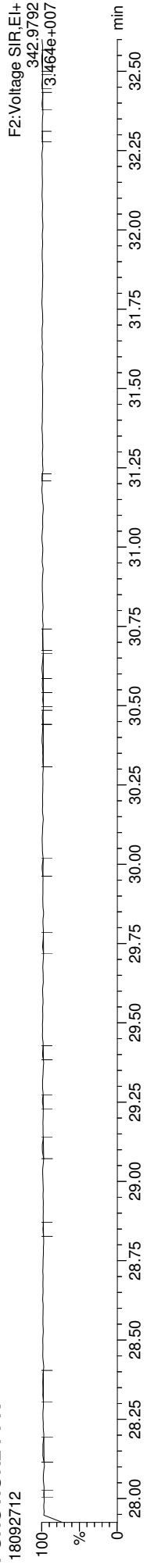
Total-pentadioxins



Total-pentadioxins



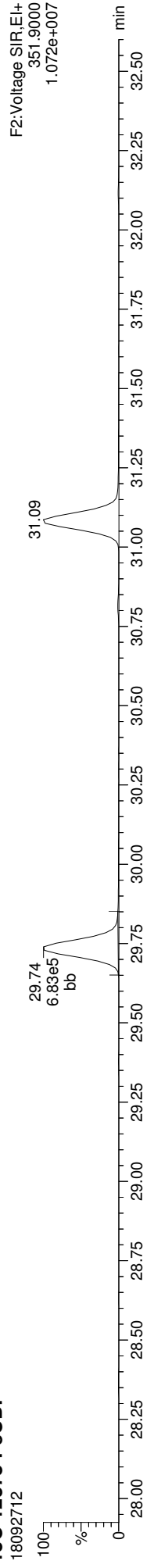
FUNCTION2 PFK



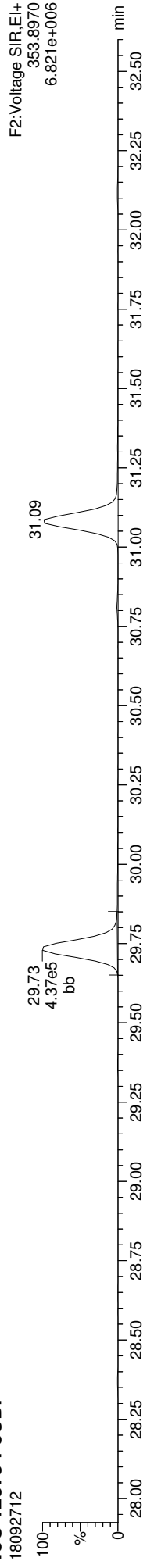
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180927DIH.qld
Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
Printed: Friday, September 28, 2018 12:04:31 Pacific Daylight Time

ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

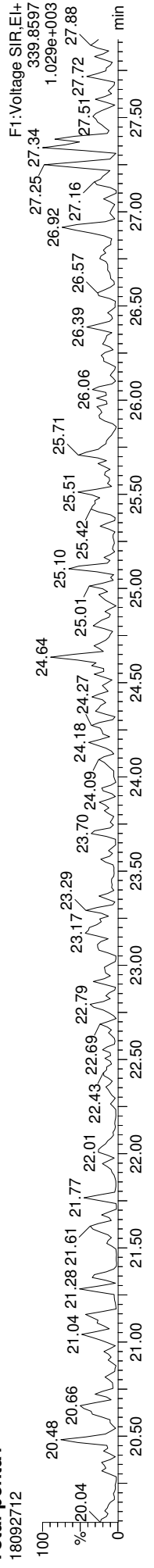
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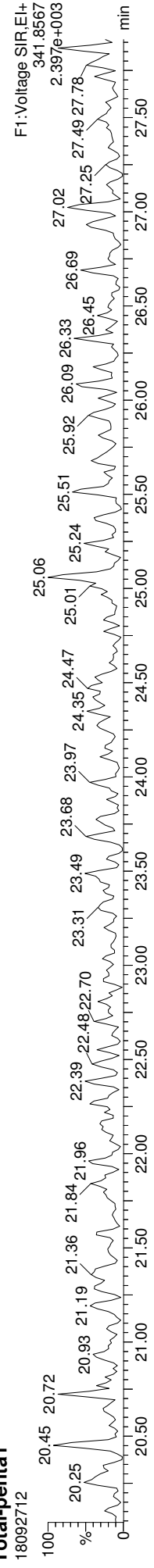
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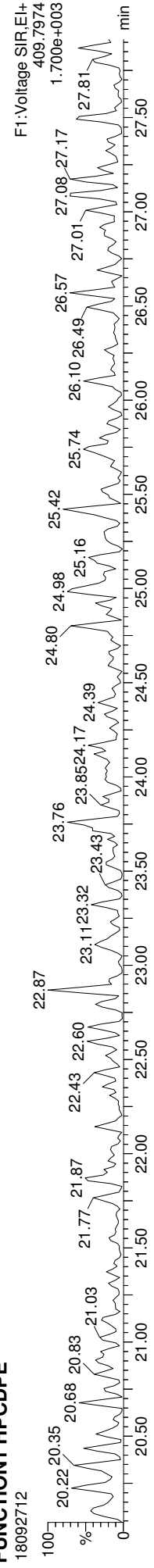
Total-penta1



Total-penta1



FUNCTION1 HPCDFE

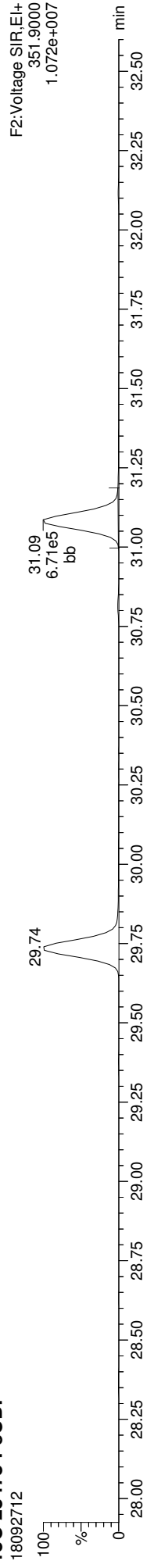


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

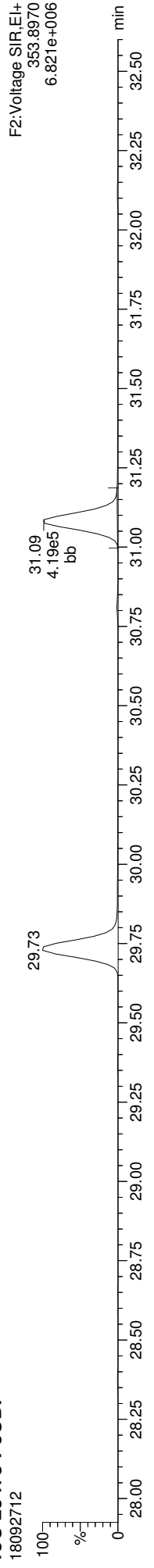
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Printed: Friday, September 28, 2018 12:04:31 Pacific Daylight Time

ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

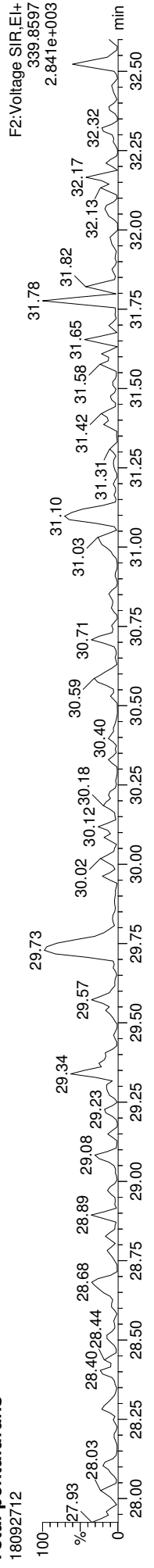
13C-23478-PeCDF



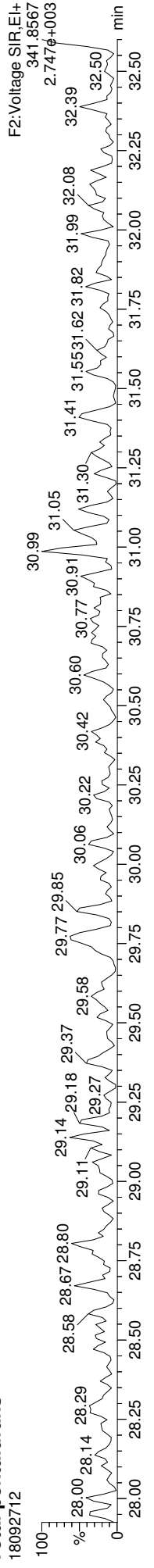
13C-23478-PeCDF



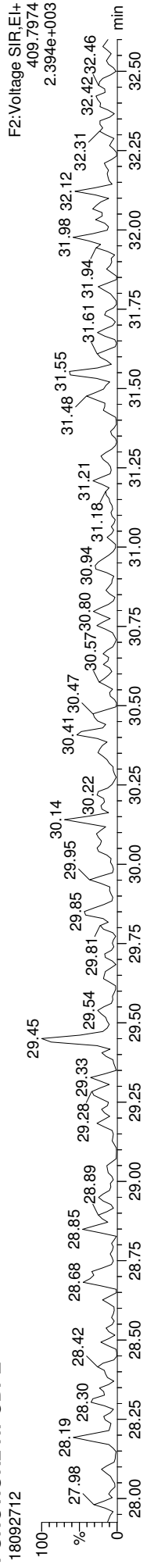
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

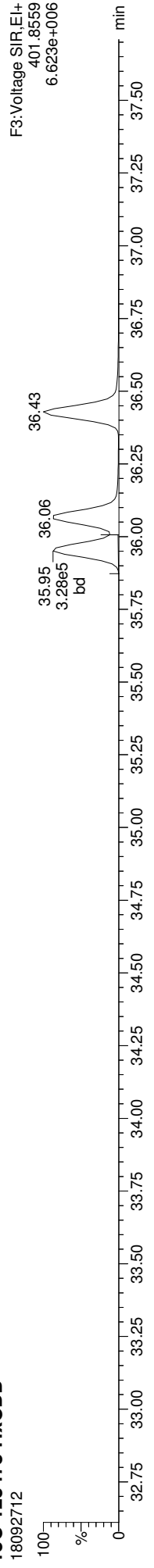


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

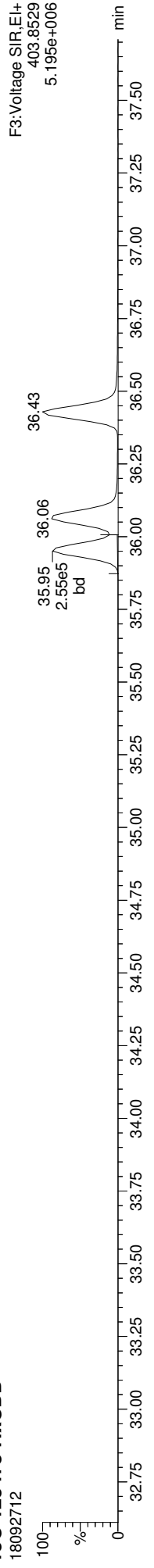
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ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

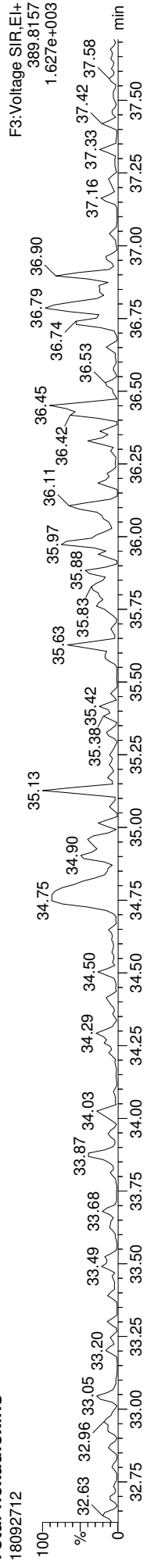
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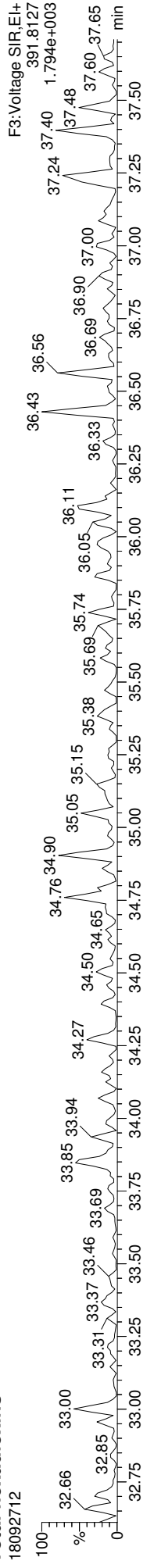
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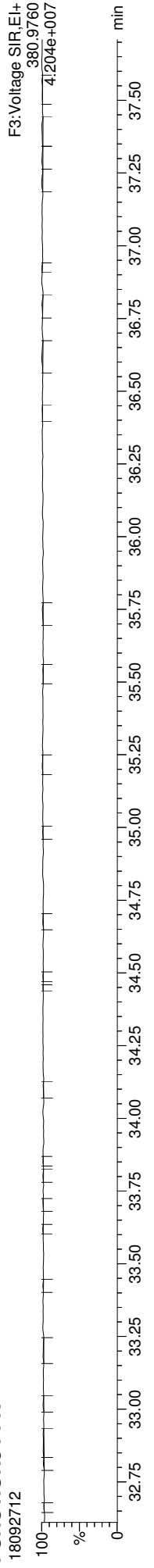
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

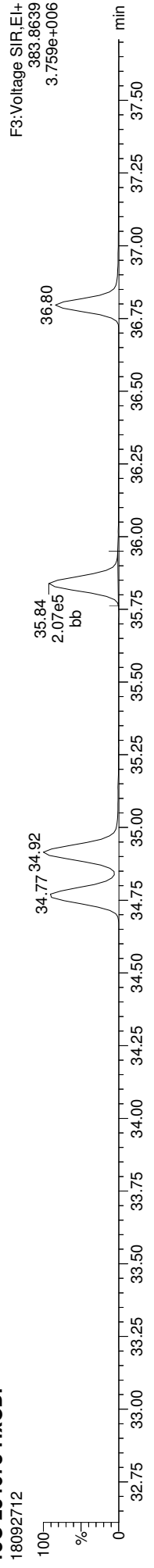


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

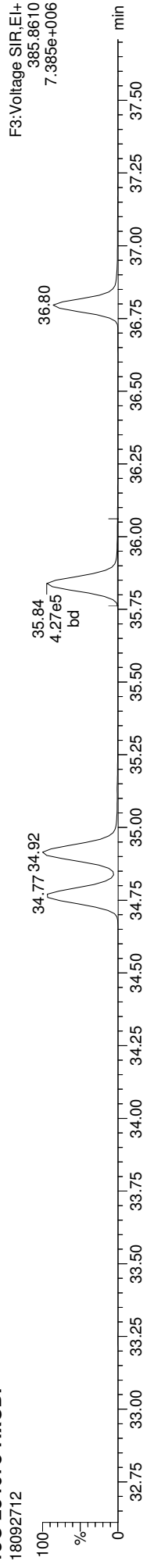
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Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
Printed: Friday, September 28, 2018 12:04:31 Pacific Daylight Time

ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

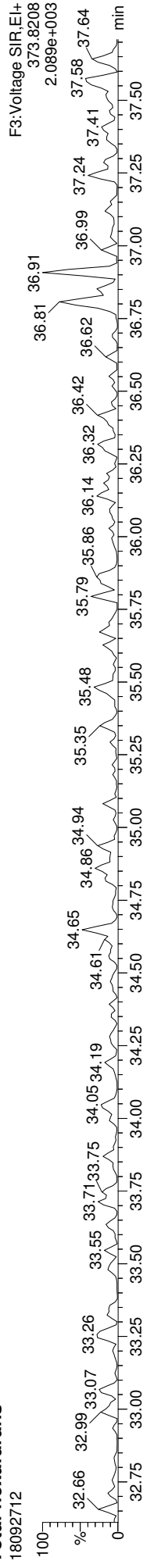
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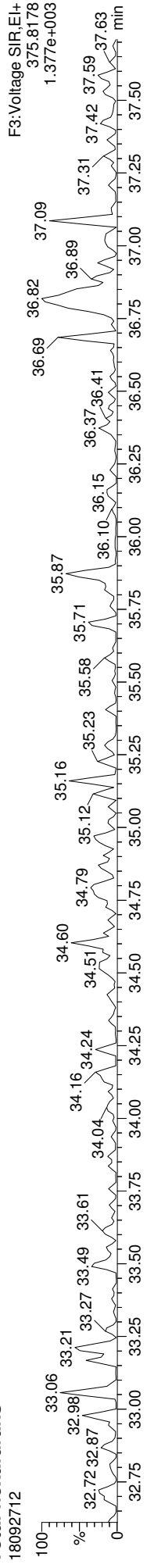
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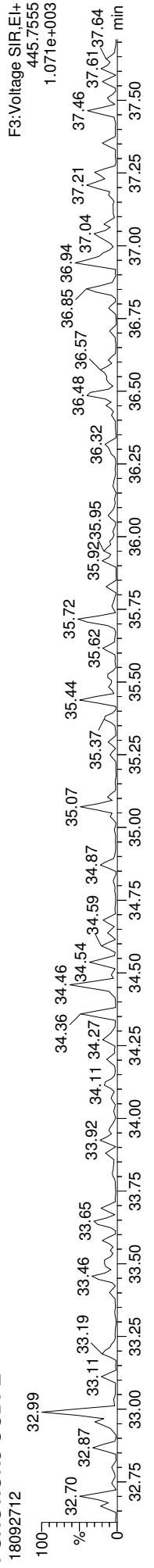
Total-hexafurans



Total-hexafurans



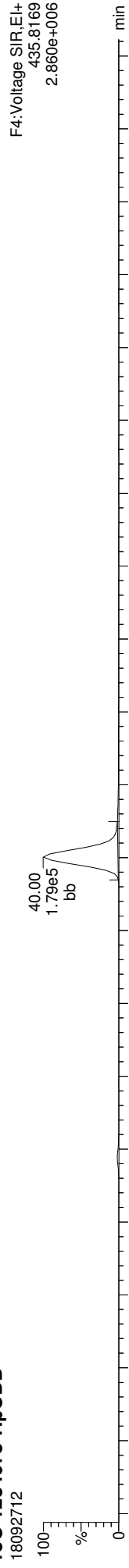
FUNCTION3 OCDPE



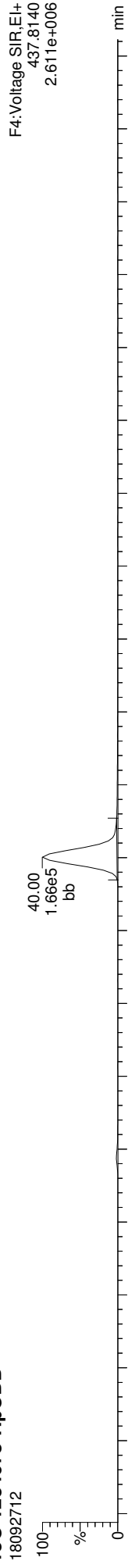
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Printed: Friday, September 28, 2018 12:04:31 Pacific Daylight Time

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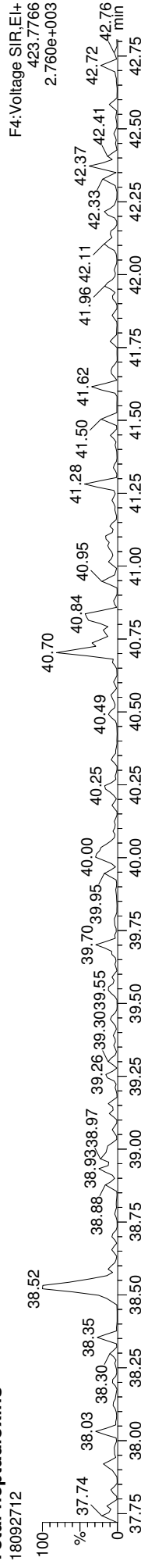
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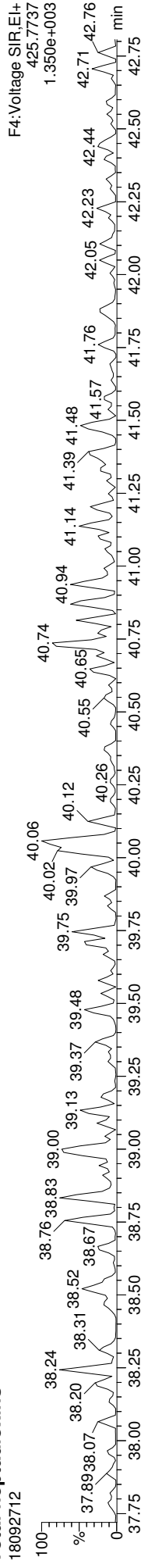
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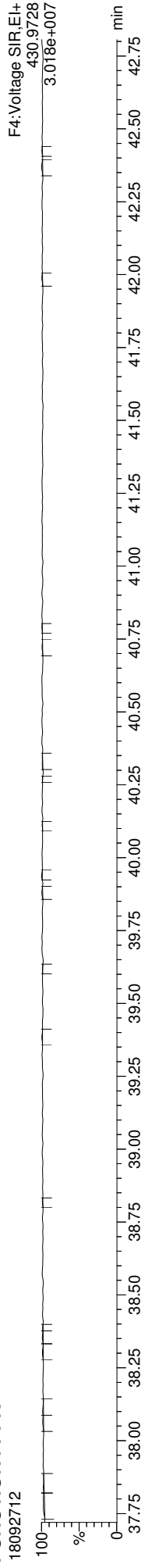
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

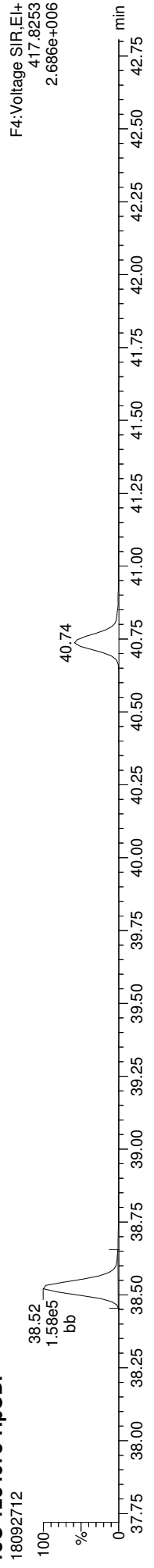


Quantify Sample Report

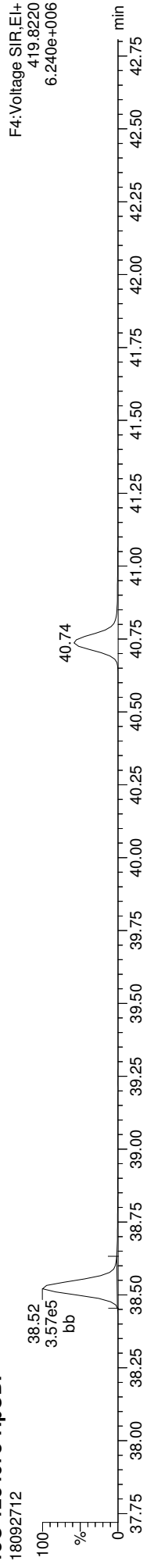
MassLynx MassLynx V4.1 SCN909
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Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
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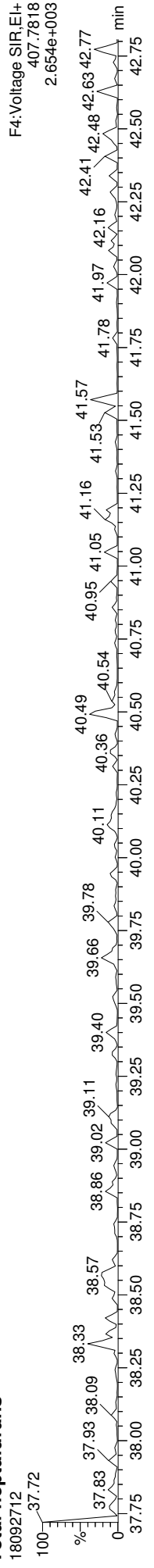
13C-1234678-HpCDF



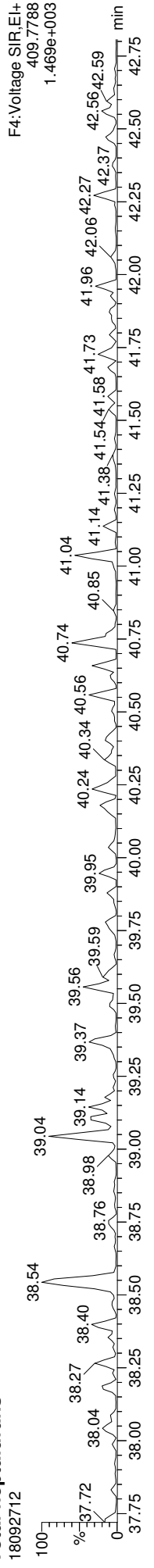
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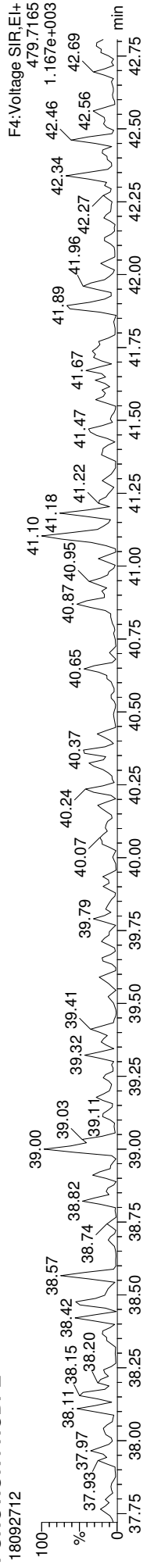
Total-heptafurans



Total-heptafurans



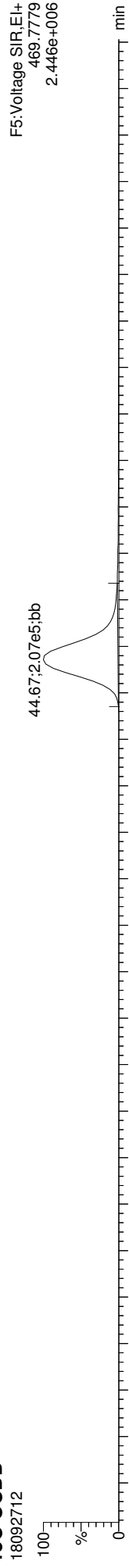
FUNCTION4 NCDPF



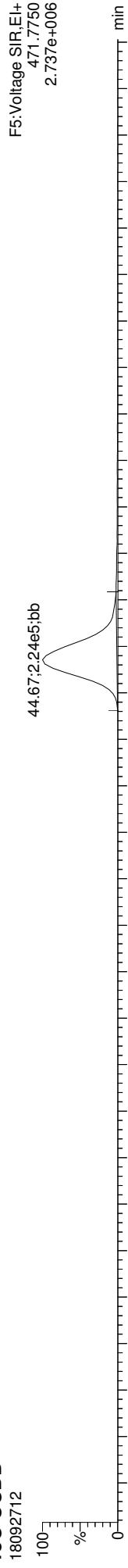
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
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Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
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ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

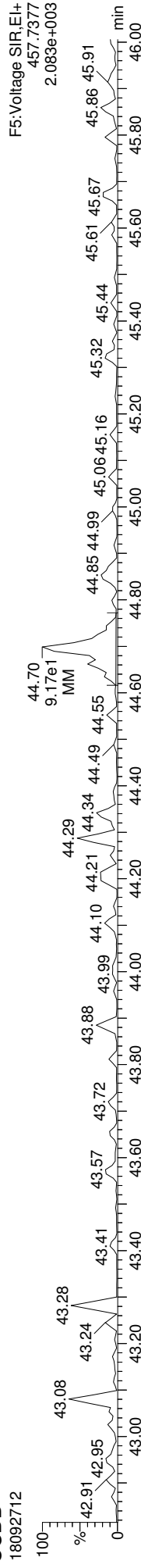
13C-OCDD



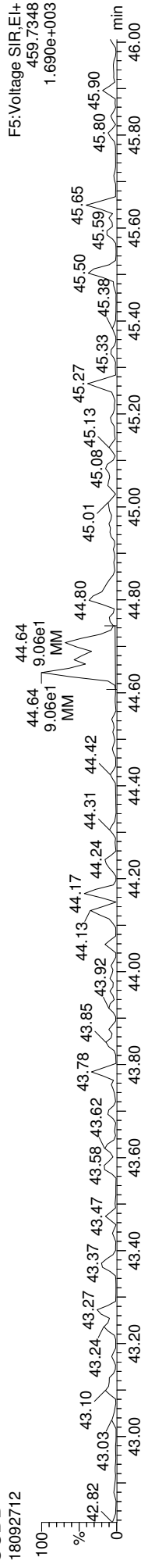
13C-OCDD



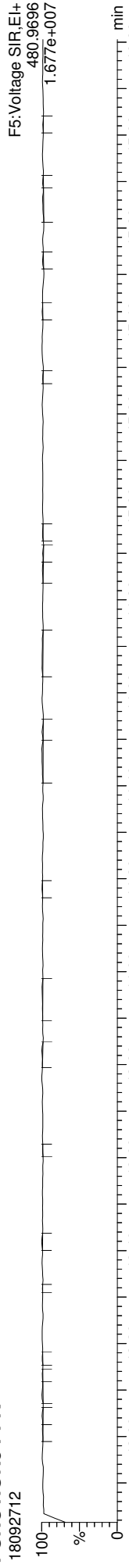
OCDD



OCDD



FUNCTION5 PFK

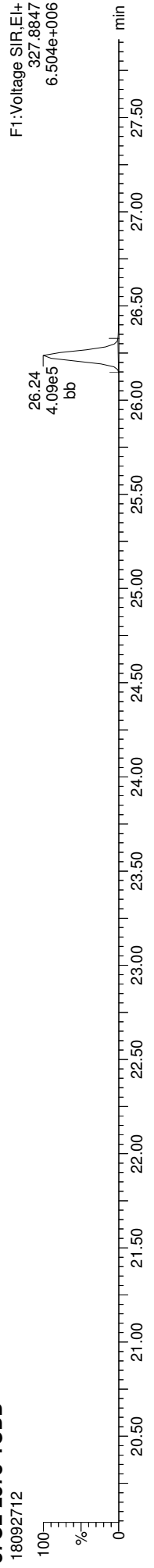


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

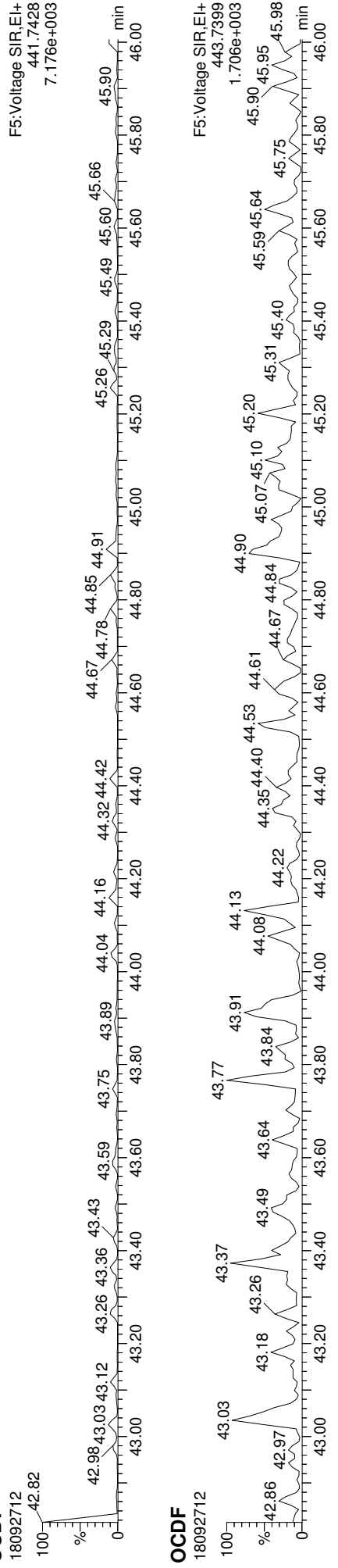
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Printed: Friday, September 28, 2018 12:04:31 Pacific Daylight Time

ID: 1810285-38, Name: 18092712, Date: 27-Sep-2018, Time: 22:43:30, Conditions: AUTOSPEC01, User: PK

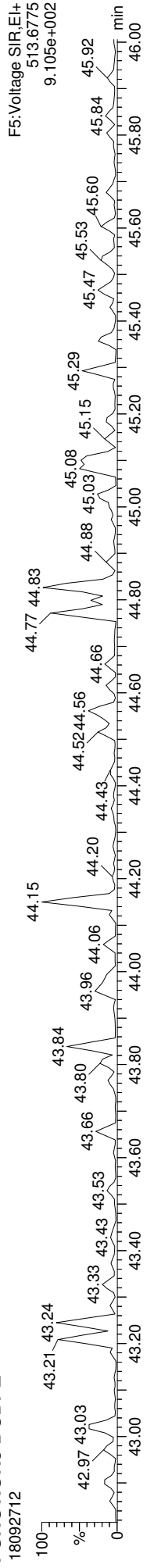
37CL-2378-TCDD



OCDF



FUNCTION5 DCDPE





Analytical Resources, Incorporated
Analytical Chemists and Consultants

HRCCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A & 1613B

Batch: BG10677

Aqueous Samples

ARI Work Orders: 1810176, 1810205, 1810285		Solid Phase Extraction		Separatory Funnel	
Method (circle one)	Start Date/Time:	End Date/Time:			
Extraction Method	9/26/18	110 M	9/26/18 1200 M		
Soxhlet	Sept Shake out				
Tumble					

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Balance				
CH2Cl2		G0054174 / G008304	M	9/26/18
MeOH				
Hexane		G007622	M	9/26/18
Na2SO4		G005397	M	9/26/18
Glasswool		F001227	M	9/26/18
Basic Silica		G007422	M	9/27/18
Acid Silica		G005355	M	9/27/18
0% Silica		G002963	M	9/27/18
Activated Florisil		G004571	M	9/27/18
(98:2) Hex/DCM		G007499	M	9/27/18
Nonane		E000869	M	9/27/18
KI Strips		E001858	M	9/26/18
pH Paper		E001859	M	9/26/18

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL	G008021	2/4 ng/mL	3/4/18	M	W	9/26/18
OPR	1.0 mL	G000328	0.21, 0.2, 0 ng/mL	1/11/19	M	W	9/26/18
Q1S Standard (10uL)	1.0 mL	G000328	0.21, 0.2, 0 ng/mL	1/11/19	M	W	9/26/18
Clean-up Standard	1.0 mL	G007241	0.8 ng/mL	2/5/19	M	W	9/27/18

Lab Number & Container	Sample Name	Sample Vol (mL)	pH >9 Adjust	Res Cl Check	RotoVap	Final Vol (uL)
1810176-05 P	MW-6	1075	7	P/F	1/2	20
1810205-01 A	PX2E14	1000	7	P/F	1/2	20
1810285-38 A	PCL3M-484-180(1)	1025	7	P/F	1/2	20
1810285-38 A	PCL3M-484-180(1)	1025	7	P/F	1/2	20
BG10677-BL1	DBLK26		7	P/F	1/2	20
BG10677-BS1	DLC526		7	P/F	1/2	20
BG10677-BSD1	DCLSD26		7	P/F	1/2	20
BG10677-DUP1	1810285-38 Duplicate	1040	7	P/F	1/2	20
BG10677-MRL1	MRL Check		7	P/F	1/2	20
BG10677-MRL2	MRL Check		7	P/F	1/2	20
Prep Analyst / Date:	M 9/26/18					

Analyst / Date:	Verify Client ID
M 9/26/18	Acid Clean <input checked="" type="checkbox"/> Silica-Florisil Clean <input checked="" type="checkbox"/>
M 9/26/18	Acid Clean <input checked="" type="checkbox"/> Silica-Florisil Clean <input checked="" type="checkbox"/>

Supervisor Review By

Date



Extraction Parameter: Dioxin

Element Batch: BG10677 Work Order(s): 18I0176, 18I0205, 18I0285

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input checked="" type="checkbox"/> No Anomalies <u>18I0176-OSP, 18I0705-01A, ? 18I0285-38A</u>	<u>M 9/26/18</u>
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



PREPARATION BATCH SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc. SDG: 18I0285
Client: Anchor QEA, LLC Project: Port Gamble - OMMP LTM
Batch: BGI0793 Batch Matrix: Solid Preparation: EPA 1613

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SMA1A-IT-0-10-Comp-180917	18I0285-01	18100509	10/02/18 16:00	SRM
SMA1-ST-0-10-Comp-180917	18I0285-02	18100510	10/02/18 16:00	SRM
SMA2A-IT-0-10-Comp-180919	18I0285-03	18100511	10/02/18 16:00	SRM
SMA2A-ST-0-10-Comp-180918	18I0285-04	18100512	10/02/18 16:00	SRM
SMA2B-IT-0-10-Comp-180918	18I0285-05	18100515	10/02/18 16:00	SRM
SMA2B-ST-0-10-Comp-180918	18I0285-06	18100516	10/02/18 16:00	SRM
SMA102B-ST-0-10-Comp-180918	18I0285-37	18100517	10/02/18 16:00	SRM
Blank	BGI0793-BLK1	18100504	10/02/18 16:00	
LCS	BGI0793-BS1	18100505	10/02/18 16:00	
SMA1A-IT-0-10-Comp-180917	BGI0793-DUP1	18100507	10/02/18 16:00	
Reference	BGI0793-SRM1	18100506	10/02/18 16:00	



Analytical Resources, Incorporated
Analytical Chemists and Consultants

HRCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A & 1613B

Batch: BG10793

Solid Samples

ARI Work Orders:	1810285, 1810361, 1810403		
Matrix (circle one)	<input checked="" type="checkbox"/> Soil	Sediment	Oil Tissue
Extraction Method	Start Date/Time:	End Date/Time:	
<input checked="" type="checkbox"/> Soxhlet	10/21/18 1600	10/31/18 0855	

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Purified Sand				
Balance		24650344	M	10/21/18
Toluene		G006261	M	10/21/18
Hexane		G2007622	M	10/31/18/10/4/18
CH2Cl2		G0008657	M	10/4/18
H2SO4		G007553	M	10/31/18
Na2SO4		G005347	M	10/21/18/10/4/18
Glasswool		F001227	M	10/4/18
(98.2) Hex/DCM		G007495	M	10/4/18
Basic Silica		G007422	M	10/4/18
Acid Silica		G005355	M	10/4/18
0% Silica		G002963	M	10/21/18/10/4/18
Activated Florisil		G1014577	M	10/4/18
Nonane		E000869	M	10/5/18
Other (SRM)		B001262	M	10/21/18

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date
Recovery Standard	1.0 mL	G008021	2/4 ng/mL	3/4/19
OPR	1.0 mL	G000328	0.21/0.20 ng/mL	1/11/19
Clean-up Standard	1.0 mL	G008234	0.8 ng/mL	3/11/19

Lab Number & Container	Sample Name	% Solids	Sample Weight Equal to dry (g) (Target Dry) Actual	Roto Vap 45°C	Water Trap Vol (mL)	Final Vol. (uL)
1810285-01 B	SMA1A-FT-10-10-Com	79.3917	12.63	1/2	2.8	20
1810285-02 B	SMA1A-ST-10-10-Comp	19.27797	20.34	1/2	8.4	20
1810285-03 B	SMA2A-FT-10-10-Com	83.60634	12.04	1/2	2.3	20
1810285-04 B	SMA2A-ST-10-10-Com	76.51292	13.12	1/2	3.2	20
1810285-05 B	SMA2B-FT-10-10-Com	79.58745	12.60	1/2	3.2	20
1810285-06 B	SMA2B-ST-10-10-Com	78.01387	12.589	1/2	3.0	20
1810285-37 B	SMA10B-ST-10-10-C	81.95122	12.22	1/2	2.7	20
1810361-01 A	BH-DU1-COM-P019	45.38811	22.16	1/2	13.4	20
1810361-02 A	BH-DU1-COM-P020	45.41615	22.08	1/2	12.6	20
1810403-01 D	KC-S-SMH(Q01-180)2	84.32	11.89	1/2	2.0	20
1810403-02 D	KC-S-SMH(Q01-180)	81.05	12.39	1/2	2.4	20
1810403-03 B	KC-S-SMH(Q11-180)9	80.72	12.42	1/2	2.6	20
1810403-04 D	KC-S-SMH(P02-180)2	82.13	12.25	1/2	2.6	20
BG10793-BLK1	Blank	100		1/2	0.1	20
BG10793-BS1	LCS	100		1/2	0.0	20
BG10793-DUP1	BG10285-01 duplicate	79.3917	12.62	1/2	2.9	20
BG10793-DUP2	BG10793-2	81.05	12.41	1/2	2.9	20
BG10793-SRM1	Reference	100	7.43	1/2	0.8	20

Prep Analyst / Date:	Analyst	Witness	Date
M 10/21/18	M	M	10/21/18
	M	M	10/21/18
	M	M	10/21/18
	M	M	10/21/18

Analyst / Date:	Verify Client ID	Acid Clean	Silica-Florisil Clean
M 10/21/18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M 10/21/18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M 10/21/18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M 10/21/18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Supervisor Review By: US Date: 10/5/18



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Dioxin Extraction Laboratory – Glassware Tracking

Batch ID: **BS10193**

Work Order: **1810285, 1810361, 1810403**

Extraction Parameter:

Dioxin

ARI Analyst

NL

ARI Sample ID	300 mL Flat Bottom	Small Soxhlet	Large Soxhlet	250 mL Beaker	Funnel	Column	Florisil Column	Turbo Tube	Sep Funnel	Erlenmeyer Flask	Centrifuge Bottle	Turbo-Vap	Vortex Mixer	Heating Mantle
BS10193 - BK1	2	102		233	66	215	59	57				4	4	A1
BS1	4	13		1	109	142	19	66				4	4	A2
Dup1	29	18		12	27	19	15	22				4	4	A3
Dup2	75	64		209	117	217	143	17				4	4	A4
SKM1	15	91		11	118	14	148	44				4	4	A5
1810285 - 01B	8	89		247	63	57	128	67				4	4	A6
02B	38		58	4	35	170	136	27				4	4	B1
03B	14	80		15	136	219	3	49				4	4	B2
04B	80	100		243	132	172	159	13				4	4	B3
05B	59	103		34	20	203	16	15				4	4	B4
06B	49	19		56	37	190	141	6				4	4	B5
37B	64	46		30	28	47	11	45				4	4	B6
1810361 - 01A	13			27	85	173	110	42				4	4	C1
02A	9		67	248	39	125	148	2				4	4	C2
1810403 - 01D	68	95		28	114	220	123	3				4	4	C3
02D	1	83		17	135	179	88	25				4	4	C4
03D	83	98		21	23	146	91	47				4	4	C5
04D	82	55		36	78	200	7	34				4	4	C6

