Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: GAS/BETX Curve Client ID: _____

ARI SOP: ~~404S(Gas)~~ ~~410S(BTEX)~~ **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): GAS / BETX

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 (PID-1) PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 5/5/11 Analysis Start Date: 5/5/11

pH ≤ 2.0	YES / NO (NA)	Method Blank In Control?	YES / NO
BFB Tune Meets Criteria?	YES / NO (NA)	LCS / LCSD Recovery In Control?	YES / NO
Internal Standard Meets Criteria?	YES / NO (NA)	Surrogate Recovery In Control?	YES / NO
ICal acceptable?	(YES) / NO	CCal acceptable?	(YES) / NO
Q flag applied?	YES / NO (NA)	Q flag applied?	YES / NO (NA)
Manual Integrations for ICal?	(YES) / NO	Manual Integrations for Samples?	Yes /NO
Special Analysis Criteria Met?	YES / NO (NA)		

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

GAS ICV Targed 0.25

BETX ICV Targed 25

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 5/9/11

Reviewer: _____ **Date:** 5/9/11

SU53 : 01111

Analytical Resources Inc.: Organics Instrument Log

PID-1 Serial No.: 2750A-17141

Date: 5/5/11 Analysis: NWTPHG/BETX Analyst: MH

GC Program: BETX Column No: 821726 Column Type: RTX502-2

Instrument Tune (.U or .CT.): — EM Voltage: —

Calibration File: — Curve Date: 5/5/11

IS/SS	Ical/Ccal	LCS/ICV
VW683-2	VW666-1	VW687-3
	VW683-3	
	VW687-3	

	Time	Filename	LabID	ClientID	Vial#	pH	DF
1	0517	0505a001.d	RINSE				1
2	0546	0505a002 d	RT+BCAL 1				1
3	0901	0505a003.d	GCAL 1				1
4	1139	0505a004 d	RINSE				1
5	1209	0505a005.d	BETX 25				1
6	1238	0505a006.d	BETX .5				1
7	1307	0505a007 d	BETX 5				1
8	1336	0505a008 d	BETX 25				1
9	1405	0505a009.d	BETX 50				1
10	1434	0505a010.d	BETX 100				1
11	1504	0505a011.d	BETX 200				1
12	1533	0505a012 d	BETX ICV				1
13	1602	0505a013.d	RINSE				1
14	1631	0505a014 d	GAS 1				1
15	1700	0505a015.d	GAS .25				1
16	1730	0505a016 d	GAS 1				1
17	1759	0505a017.d	GAS 2.5				1
18	1828	0505a018 d	GAS 5				1
19	1857	0505a019 d	GAS 20				1
20	1927	0505a020 d	RINSE				1
21	1956	0505a021.d	GAS ICV				1

MH
5/9/11

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 12:09
End Cal Date : 05-MAY-2011 15:04
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Cal Date : 06-May-2011 05:29 monicah
Curve Type : Average

Calibration File Names:
Level 1: /chem3/pid1.i/vpcc0505-2.b/0505a005.d/0505a005.cdf
Level 2: /chem3/pid1.i/vpcc0505-2.b/0505a006.d/0505a006.cdf
Level 3: /chem3/pid1.i/vpcc0505-2.b/0505a007.d
Level 4: /chem3/pid1.i/vpcc0505-2.b/0505a008.d
Level 5: /chem3/pid1.i/vpcc0505-2.b/0505a009.d
Level 6: /chem3/pid1.i/vpcc0505-2.b/0505a010.d
Level 7: /chem3/pid1.i/vpcc0505-2.b/0505a011.d

Compound	0.25000 Level 1	0.50000 Level 2	5.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	200.000 Level 7							
1 MTBE	124	114	121	110	114	111		
	113						115	4.576
2 Benzene	432	400	403	349	344	337		
	340						372	10.372
4 Toluene	396	342	346	321	326	324		
	326						340	7.781
15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++ <-
5 Ethylbenzene	284	272	311	287	295	291		
	294						291	4.130
6 M/P-Xylene	358	311	330	308	318	317		
	315						322	5.309

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 12:09
End Cal Date : 05-MAY-2011 15:04
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Cal Date : 06-May-2011 05:29 monicah
Curve Type : Average

Compound	0.25000 Level 1	0.50000 Level 2	5.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
7 O-Xylene	240	242	270	246	255	254	258	252	4.165	
13 1,3,5 Trimethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 1,2,4 Trimethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
16 1,3 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
17 1,4 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
18 1,2 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 3 TFT(Surr)	60.54545	56.15909	54.10448	54.63000	55.97744	55.27528	55.18500	55.98239	3.813	
$ 19 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 8 BB(Surr)	123	117	115	117	120	120	121	119	2.225	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 12:09
End Cal Date : 05-MAY-2011 15:04
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem3/pid1.i/vpcc0505-1.b/FID.m
Cal Date : 06-May-2011 05:36 monicah
Curve Type : Average

Compound	0.000e+00 Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	0.000e+00 Level 7	RRF	% RSD	
14 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 4 TFT(Surr)	28.77273	26.50000	25.56716	25.53000	25.92481	25.32022	25.11500	26.10428	4.826	
$ 22 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 9 BB(Surr)	20.36364	19.04545	18.50746	18.56000	18.72180	18.53933	18.39500	18.87610	3.649	

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a002.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a002.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: RT+BCAL 1
Client ID:
Injection Date: 05-MAY-2011 05:46
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.904	-0.002	2694	36421	103.2	TFT(Surr)
15.447	-0.001	1909	15987	101.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	456964	1.430
8015B 2MP-TMB	(4.17 to 16.26)	652210	517504	0.793
AK101 nC6-nC10	(4.67 to 15.16)	527526	369517	0.700
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	509066	1.497

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.902	-0.002	5860	104.7	TFT(Surr)
15.447	-0.001	12143	102.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.062	-0.004	9443	25.37	Benzene
9.945	-0.005	8851	26.03	Toluene
12.848	-0.007	7942	27.32	Ethylbenzene
13.010	-0.012	17038	52.83	M/P-Xylene
13.968	-0.007	6851	27.16	O-Xylene
4.538	-0.001	2895	25.11	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a002.d

Date : 05-MAY-2011 05:46

Client ID:

Sample Info: RT+BCAL 1

Instrument: pid1.i

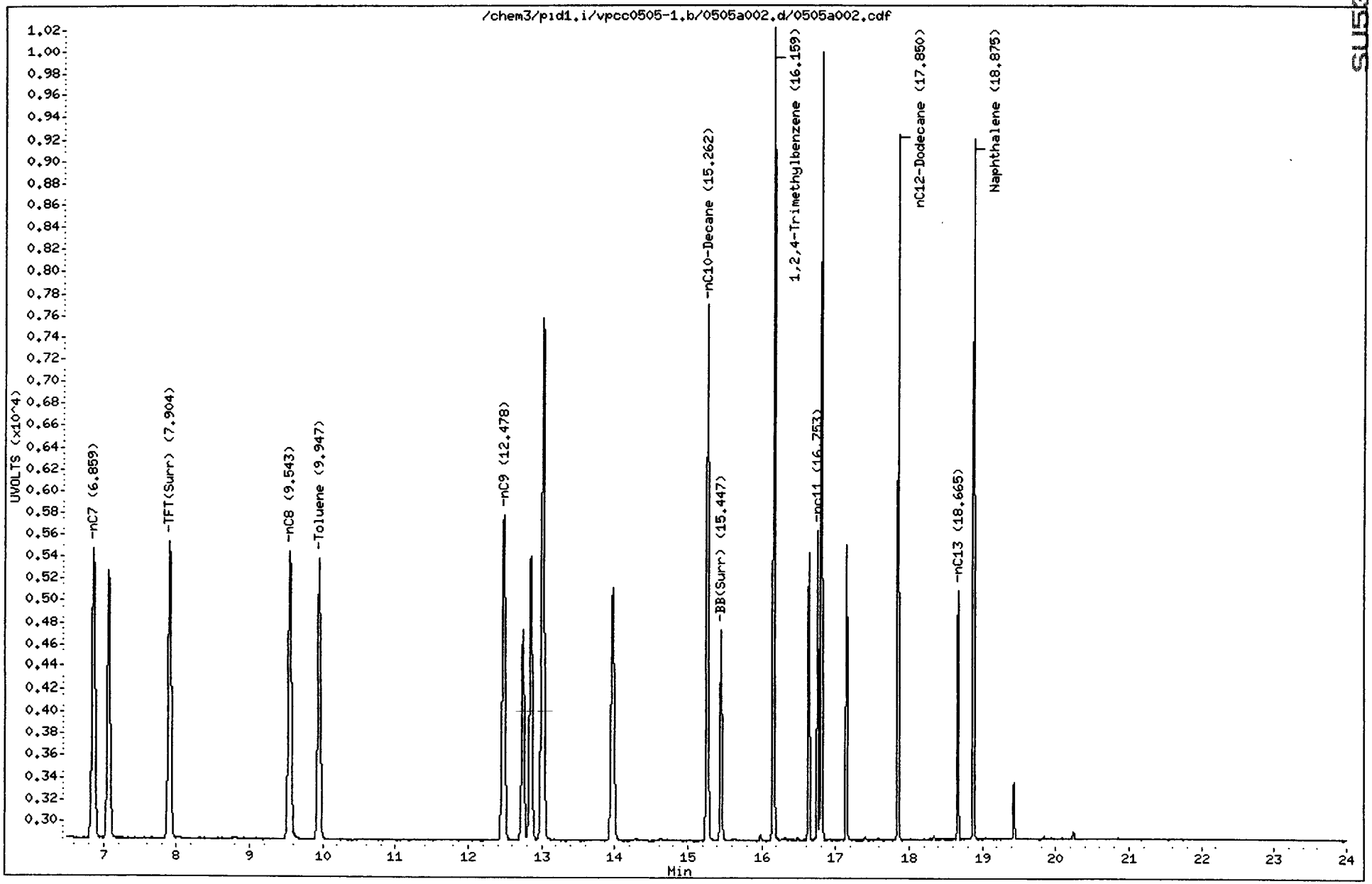
Operator: MH

Column phase: RTX 502-2 FID

Column diameter: 0.18

3638

SUSB 01117



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a002.d

Date : 05-MAY-2011 05:46

Client ID:

Sample Info: RT+BCAL 1

Column phase: RTX 502-2 PID

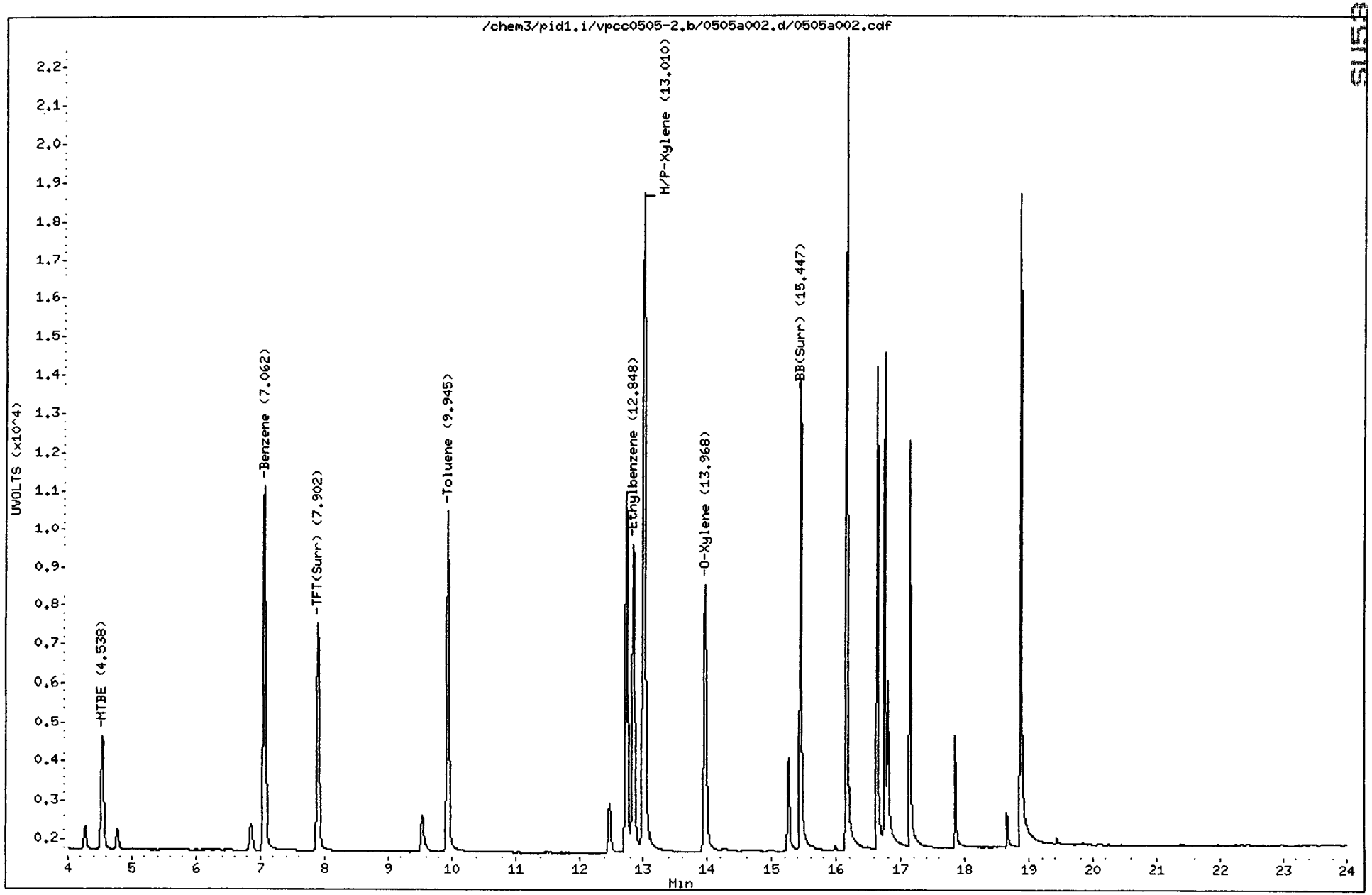
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3639

SUSS 01118



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a005.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a005.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BETX .25
Client ID:
Injection Date: 05-MAY-2011 12:09
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.905	-0.001	633	8568	24.2	TFT(Surr)
15.449	0.001	448	3718	23.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	4488	0.014
8015B 2MP-TMB	(4.17 to 16.26)	652210	2674	0.004
AK101 nC6-nC10	(4.67 to 15.16)	527526	2305	0.004
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	5368	0.016

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.903	-0.001	1332	23.8	TFT(Surr)
15.450	0.002	2699	22.7	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.053	-0.013	108	0.29N	Benzene
9.947	-0.003	99	0.29N	Toluene
12.847	-0.009	71	0.24N	Ethylbenzene
13.013	-0.009	179	0.56N	M/P-Xylene
13.973	-0.001	60	0.24N	O-Xylene
4.537	-0.002	31	0.27N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a005.d

Date : 05-MAY-2011 12:09

Client ID:

Sample Info: BETX .25

Column phase: RTX 502-2 FID

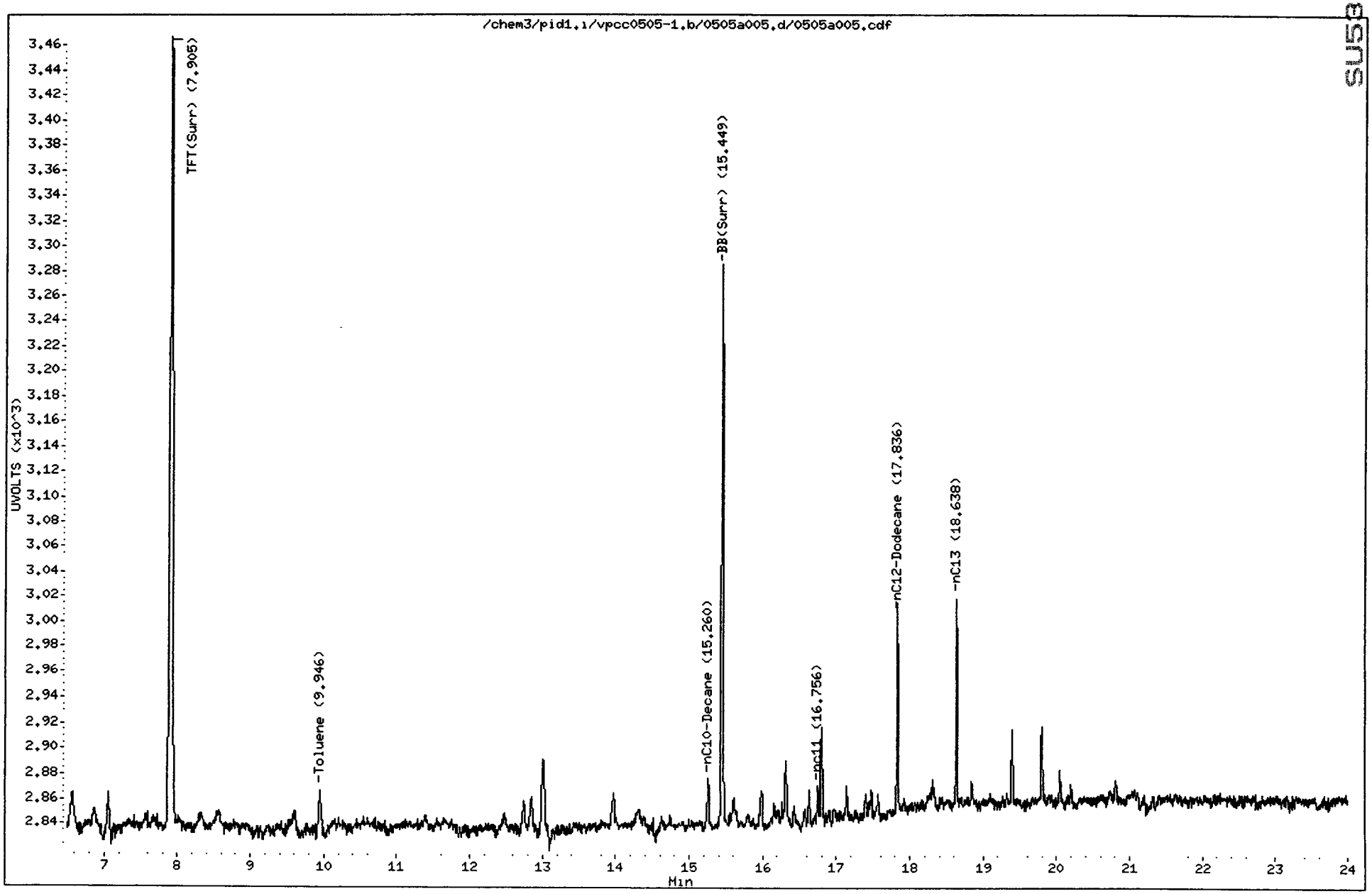
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3641

SUS8-01120



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a005.d
Date : 05-MAY-2011 12:09
Client ID:
Sample Info: BETX .25

Instrument: pid1.i

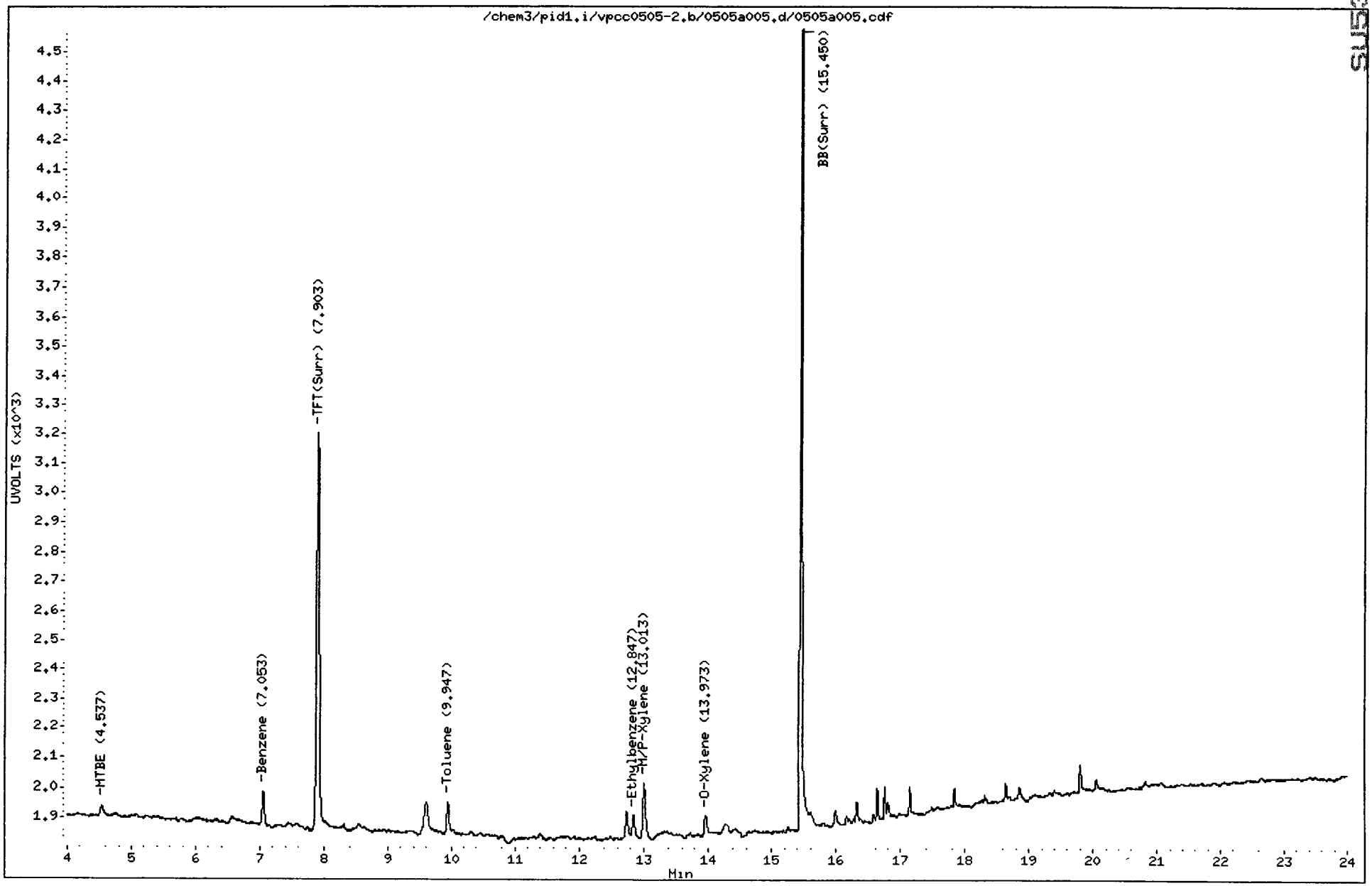
Operator: MH

Column phase: RTX 502-2 PID

Column diameter: 0.18

3642

SUB3 : 01121



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a006.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a006.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BETX .5
Client ID:
Injection Date: 05-MAY-2011 12:38
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.904	-0.002	1166	15840	44.7	TFT(Surr)
15.448	0.000	838	6989	44.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	6148	0.019
8015B 2MP-TMB	(4.17 to 16.26)	652210	4649	0.007
AK101 nC6-nC10	(4.67 to 15.16)	527526	4648	0.009
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	7297	0.021

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.902	-0.003	2471	44.1	TFT(Surr)
15.447	-0.001	5144	43.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.053	-0.013	200	0.54N	Benzene
9.947	-0.003	171	0.50N	Toluene
12.850	-0.005	136	0.47N	Ethylbenzene
13.011	-0.012	311	0.96	M/P-Xylene
13.967	-0.008	121	0.48N	O-Xylene
4.533	-0.005	57	0.49N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a006.d

Date : 05-MAY-2011 12:38

Client ID:

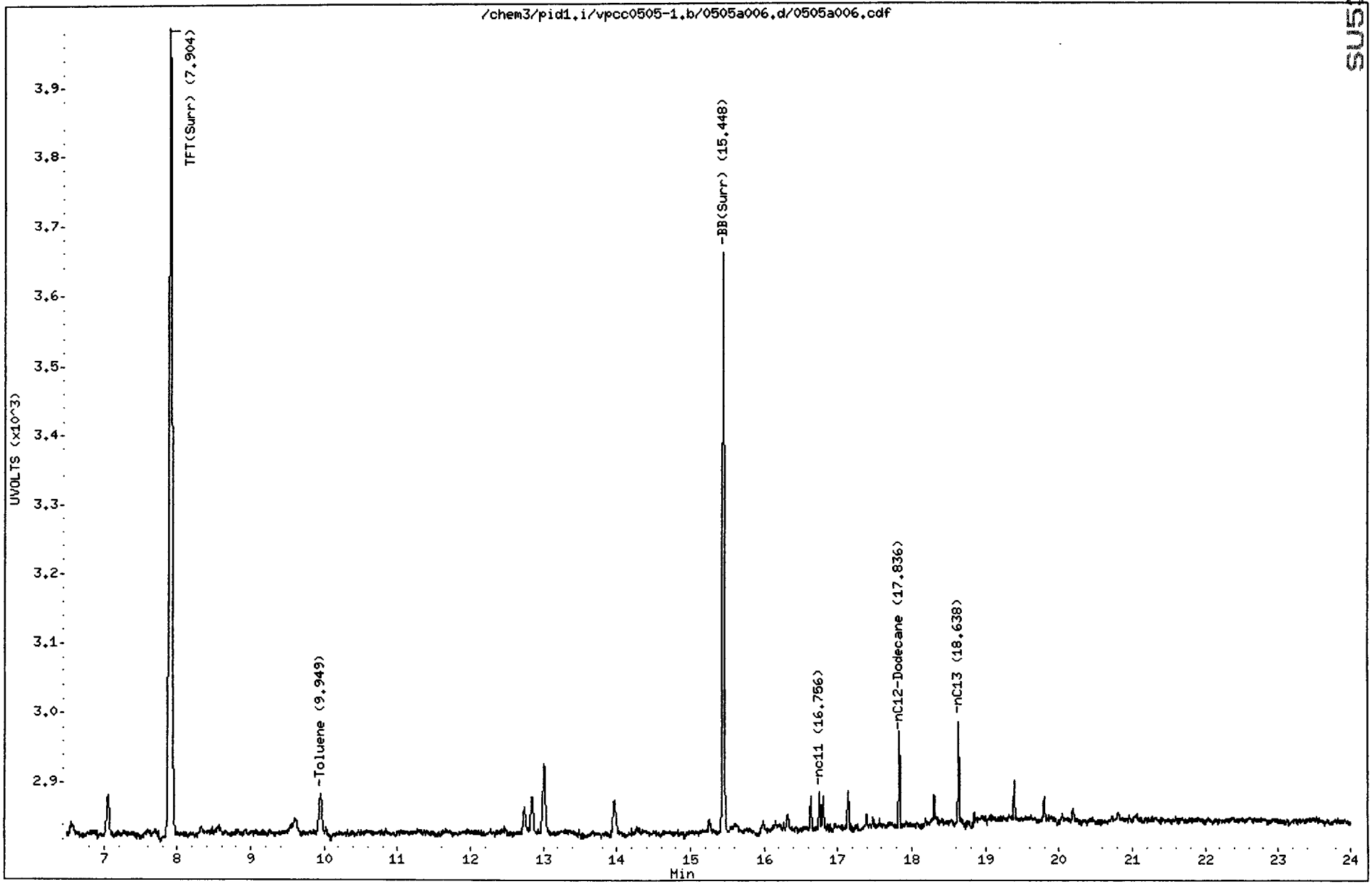
Sample Info: BETX .5

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a006.d

Date : 05-MAY-2011 12:38

Client ID:

Sample Info: BETX .5

Column phase: RTX 502-2 PID

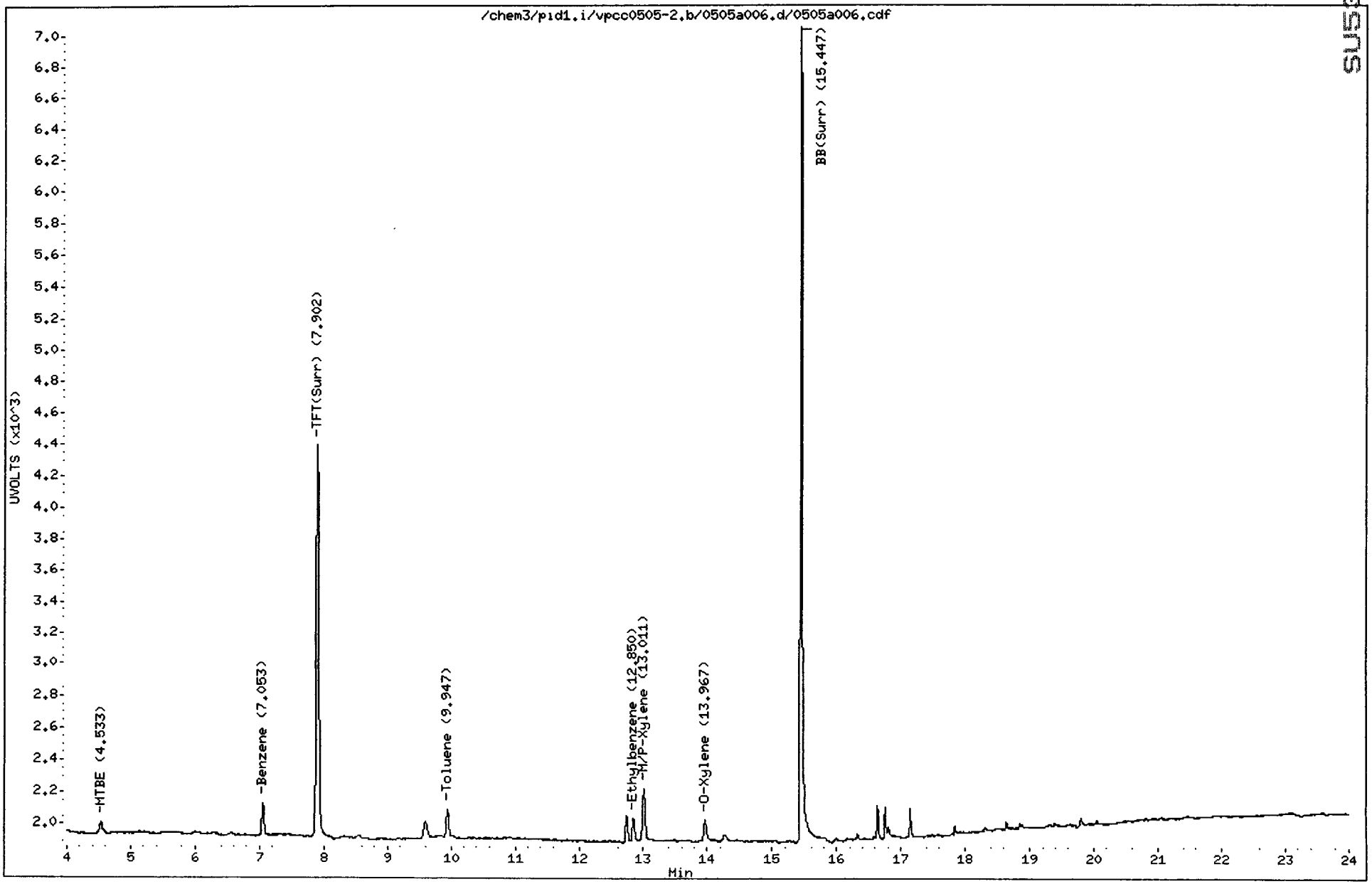
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3645

SUSS-01124



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a007.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a007.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BETX 5
Client ID:
Injection Date: 05-MAY-2011 13:07
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.905	-0.001	1713	23242	65.6	TFT(Surr)
15.449	0.000	1240	10442	65.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	49311	0.154
8015B 2MP-TMB	(4.17 to 16.26)	652210	47516	0.073
AK101 nC6-nC10	(4.67 to 15.16)	527526	44551	0.084
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	50121	0.147

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.903	-0.001	3625	64.8	TFT(Surr)
15.448	0.000	7732	65.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.054	-0.012	2016	5.42	Benzene
9.946	-0.004	1729	5.08	Toluene
12.849	-0.006	1557	5.36	Ethylbenzene
13.010	-0.012	3299	10.23	M/P-Xylene
13.969	-0.005	1351	5.35	O-Xylene
4.534	-0.005	606	5.26	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a007.d

Date : 05-MAY-2011 13:07

Client ID:

Sample Info: BETX 5

Column phase: RTX 502-2 FID

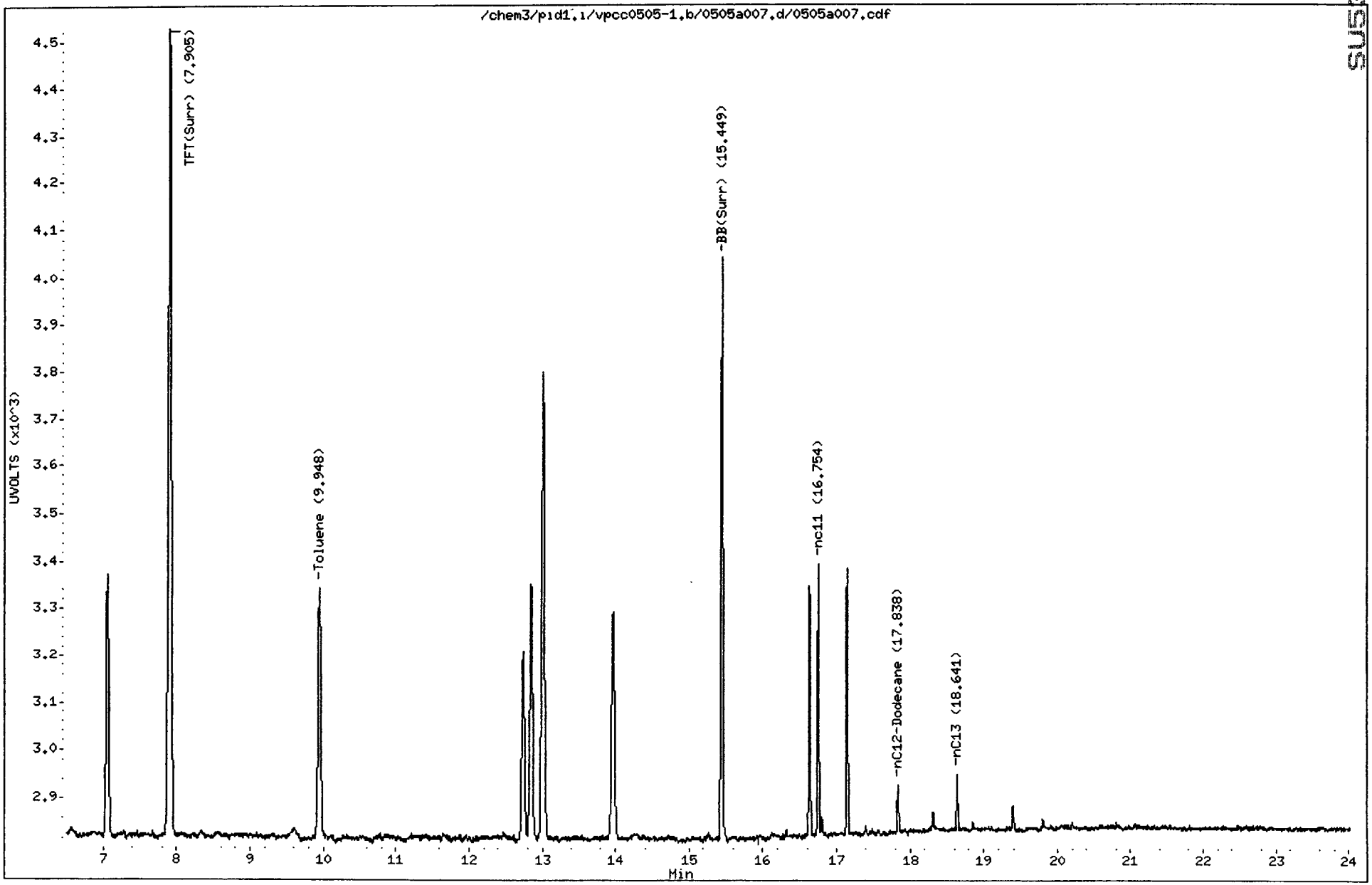
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3647

SUB: 01126



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a007.d

Date : 05-MAY-2011 13:07

Client ID:

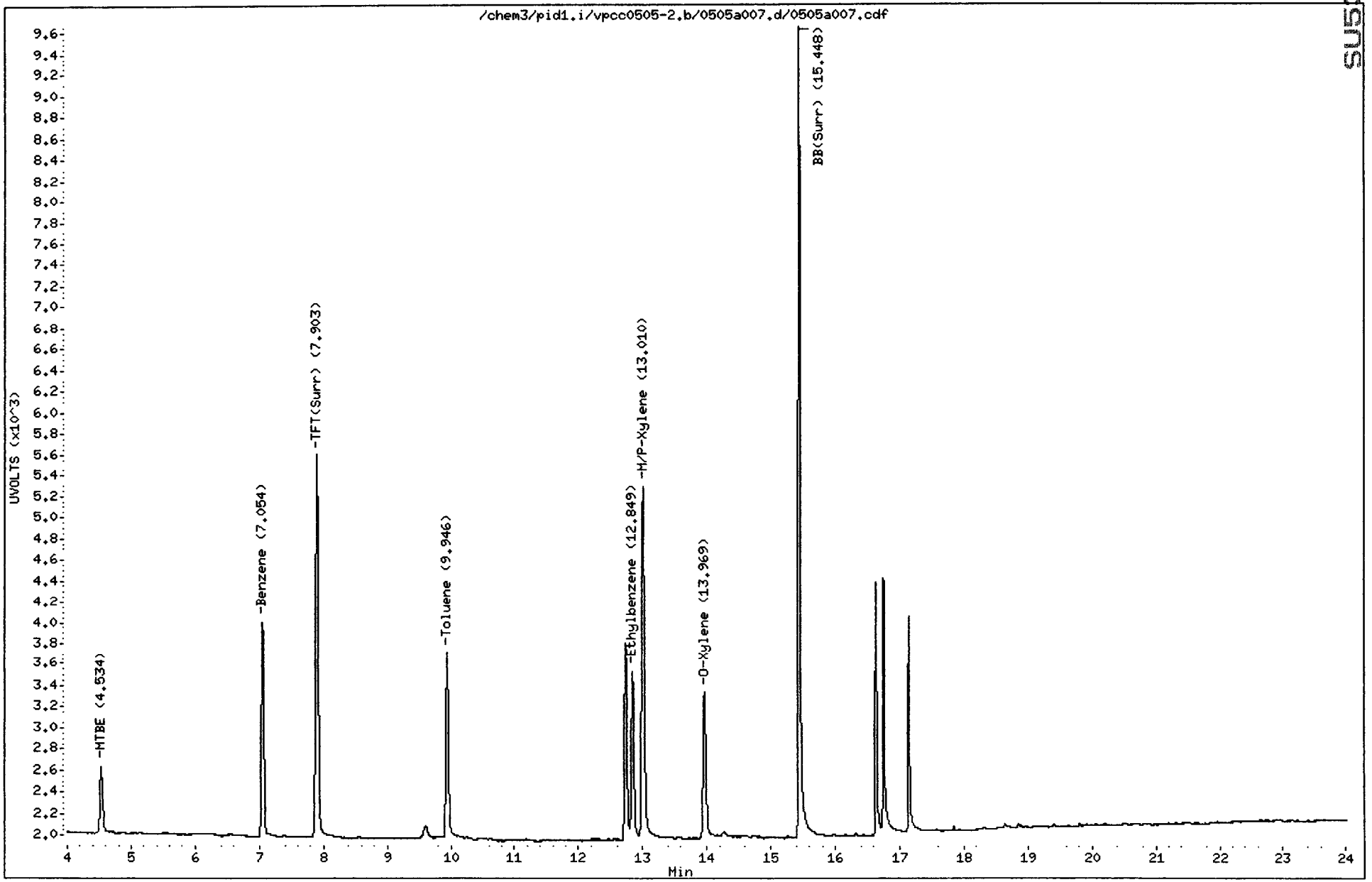
Sample Info: BETX 5

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a008.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a008.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BETX 25
Client ID:
Injection Date: 05-MAY-2011 13:36
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	-0.001	2553	34707	97.8	TFT(Surr)
15.449	0.001	1856	15512	98.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	213583	0.668
8015B 2MP-TMB	(4.17 to 16.26)	652210	208113	0.319
AK101 nC6-nC10	(4.67 to 15.16)	527526	195796	0.371
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	214356	0.630

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	-0.001	5463	97.6	TFT(Surr)
15.449	0.001	11655	98.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.058	-0.008	8734	23.47	Benzene
9.947	-0.003	8029	23.61	Toluene
12.850	-0.005	7183	24.71	Ethylbenzene
13.012	-0.010	15396	47.74	M/P-Xylene
13.969	-0.005	6153	24.39	O-Xylene
4.536	-0.003	2742	23.78	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.1/vpcc0505-1.b/0505a008.d

Date : 05-MAY-2011 13:36

Client ID:

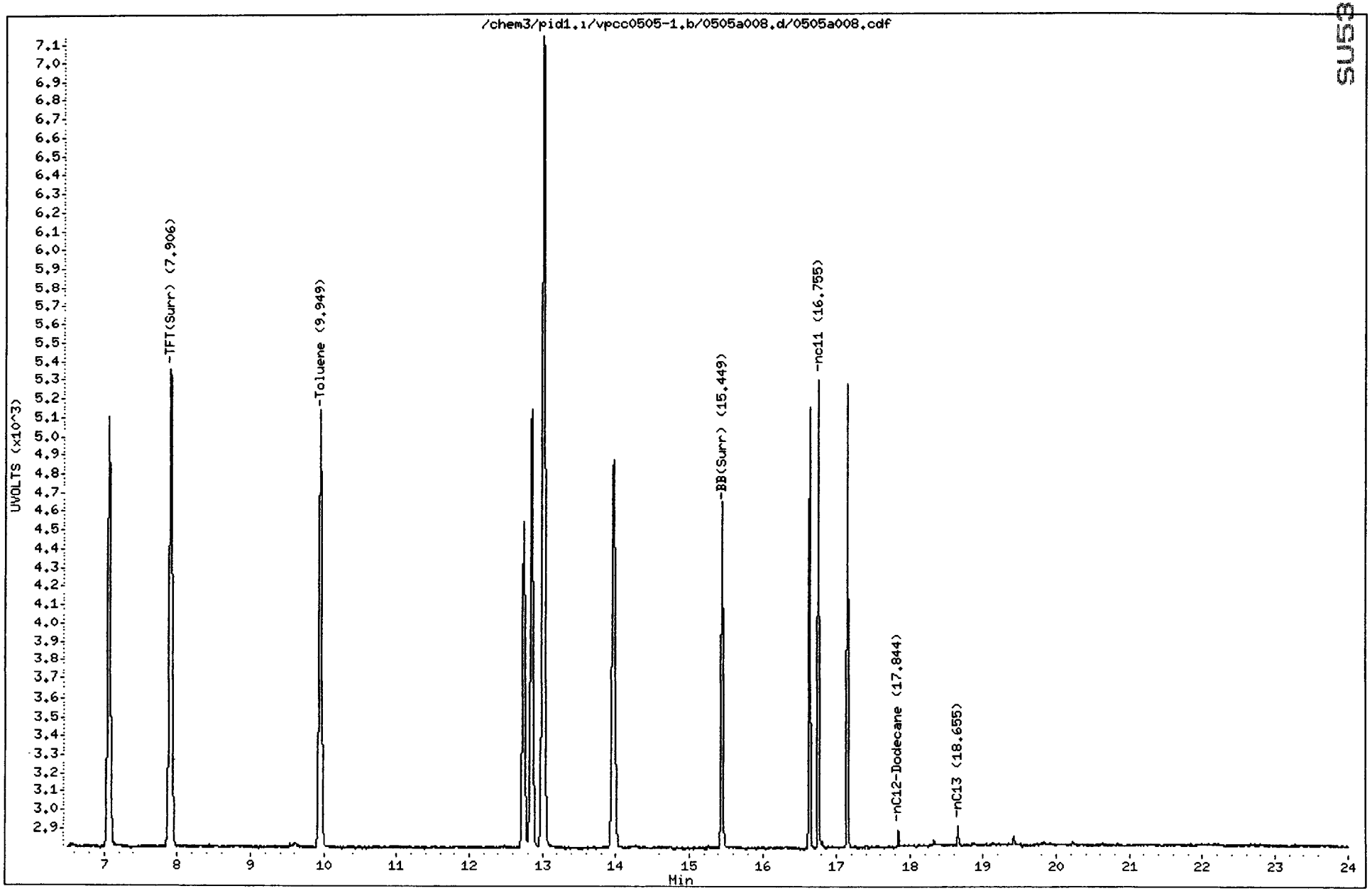
Sample Info: BETX 25

Column phase: RTX 502-2 FID

Instrument: pid1.1

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a008.d

Date : 05-MAY-2011 13:36

Client ID:

Sample Info: BETX 25

Column phase: RTX 502-2 PID

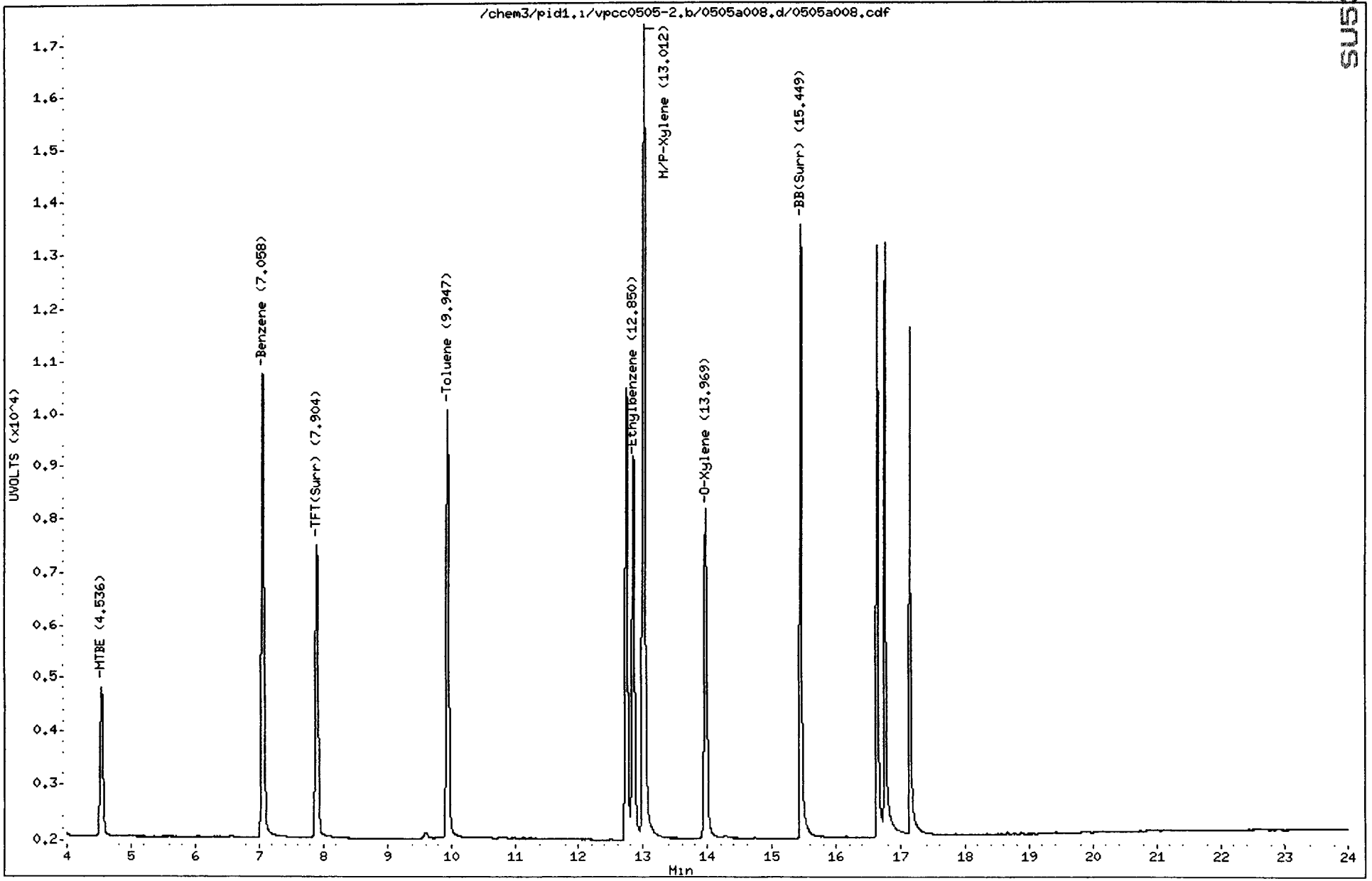
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3651

SU53:01130



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a009.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a009.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BETX 50
Client ID:
Injection Date: 05-MAY-2011 14:05
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.002	3448	46899	132.1	TFT(Surr)
15.450	0.001	2490	20749	131.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	427894	1.339
8015B 2MP-TMB	(4.17 to 16.26)	652210	418865	0.642
AK101 nC6-nC10	(4.67 to 15.16)	527526	393029	0.745
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	428397	1.260

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.002	7445	133.0	TFT(Surr)
15.449	0.001	15947	134.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.063	-0.003	17208	46.24	Benzene
9.949	-0.001	16279	47.88	Toluene
12.852	-0.003	14766	50.79	Ethylbenzene
13.015	-0.008	31808	98.63	M/P-Xylene
13.972	-0.003	12759	50.57	O-Xylene
4.538	-0.001	5691	49.35	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a009.d

Date : 05-MAY-2011 14:05

Client ID:

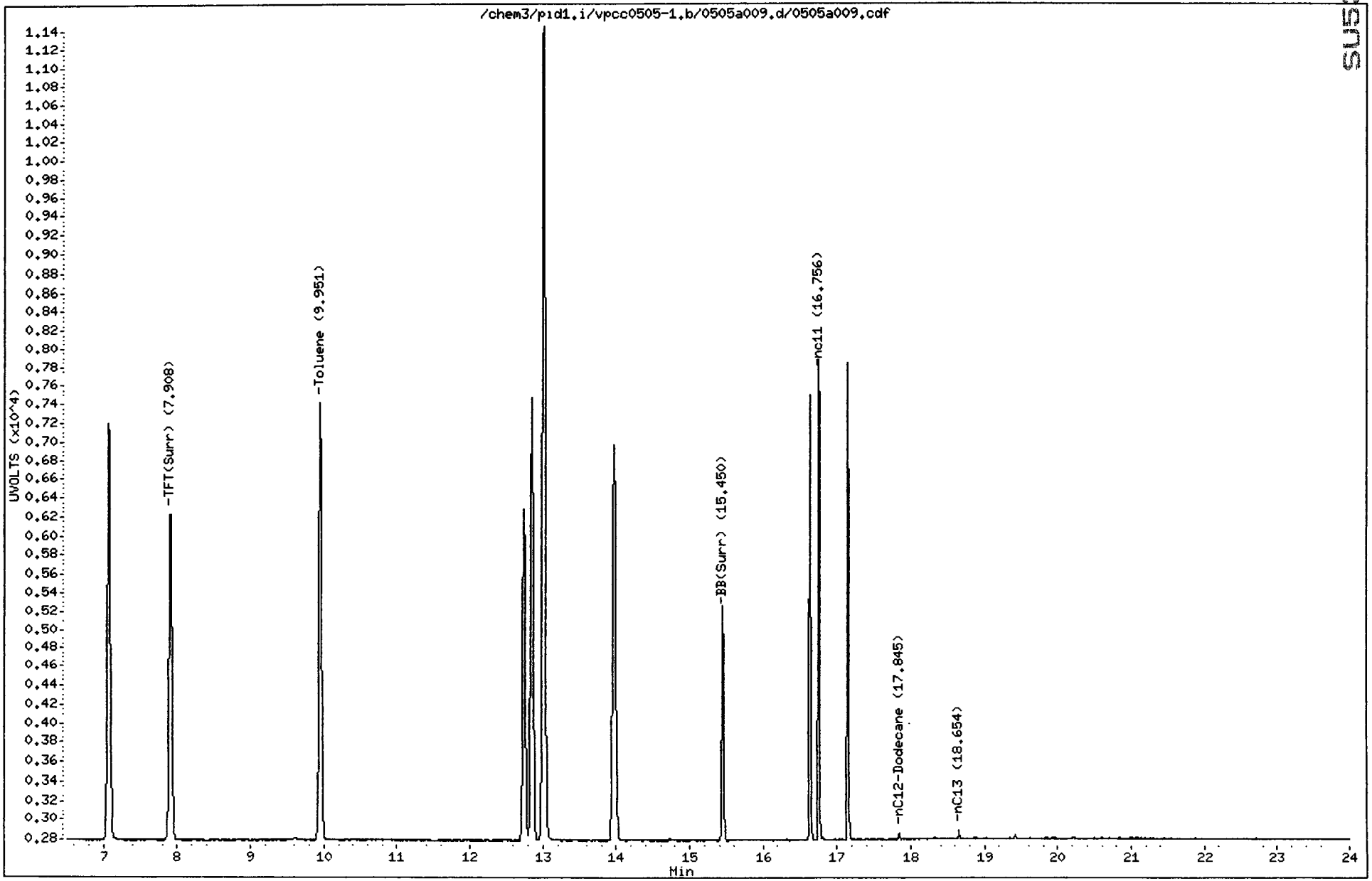
Sample Info: BETX 50

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a009.d

Date : 05-MAY-2011 14:05

Client ID:

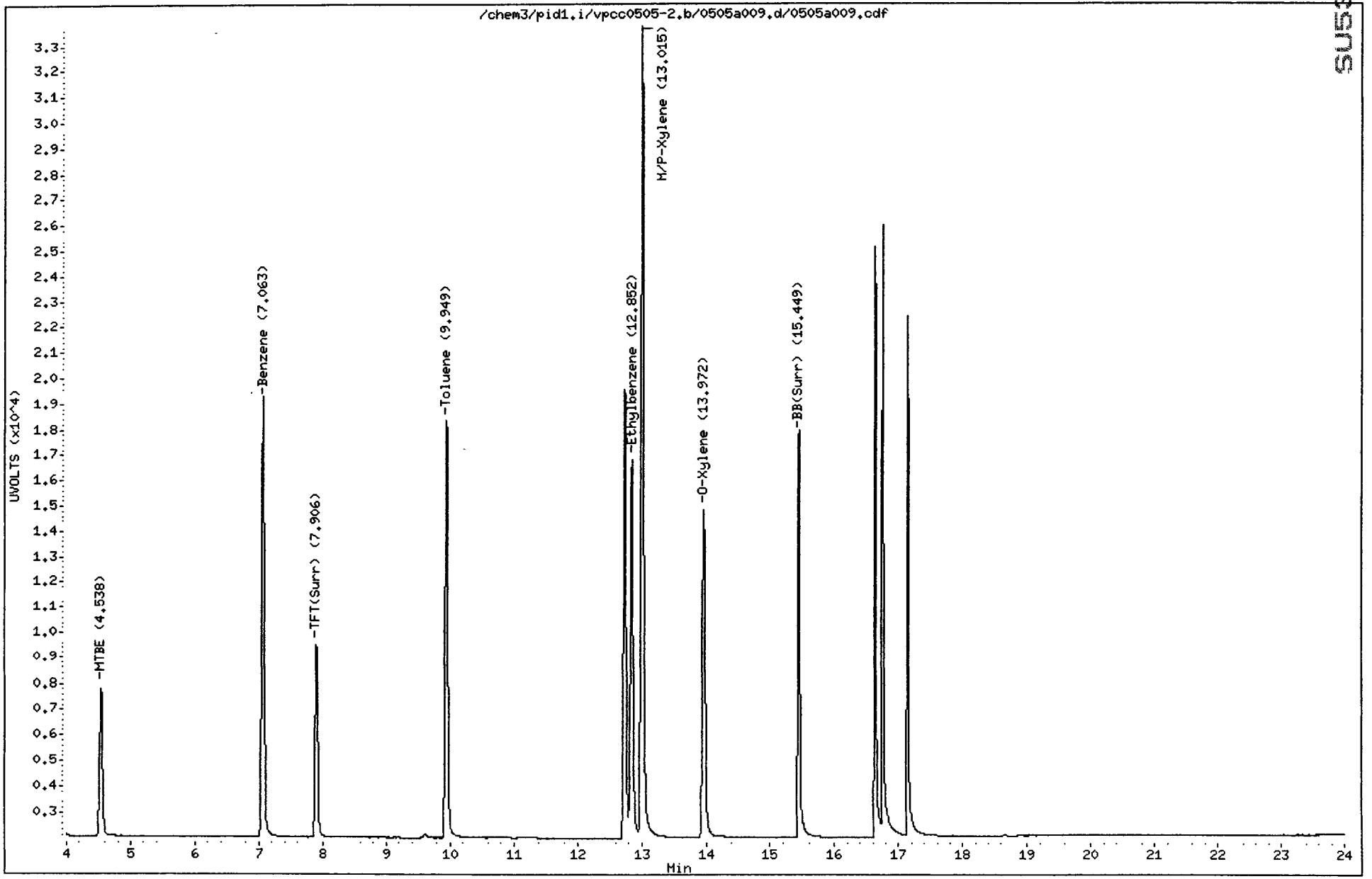
Sample Info: BETX 50

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a010.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a010.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BETX 100
Client ID:
Injection Date: 05-MAY-2011 14:34
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.001	4507	60824	172.7	TFT(Surr)
15.450	0.002	3300	27406	174.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	819951	2.566
8015B 2MP-TMB	(4.17 to 16.26)	652210	803865	1.233
AK101 nC6-nC10	(4.67 to 15.16)	527526	754184	1.430
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	820643	2.413

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	9839	175.8	TFT(Surr)
15.450	0.002	21394	179.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.064	-0.002	33669	90.47	Benzene
9.949	-0.001	32365	95.18	Toluene
12.853	-0.002	29127	100.19	Ethylbenzene
13.017	-0.005	63418	196.65	M/P-Xylene
13.973	-0.001	25443	100.85	O-Xylene
4.537	-0.001	11113	96.37	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a010.d

Date : 05-MAY-2011 14:34

Client ID:

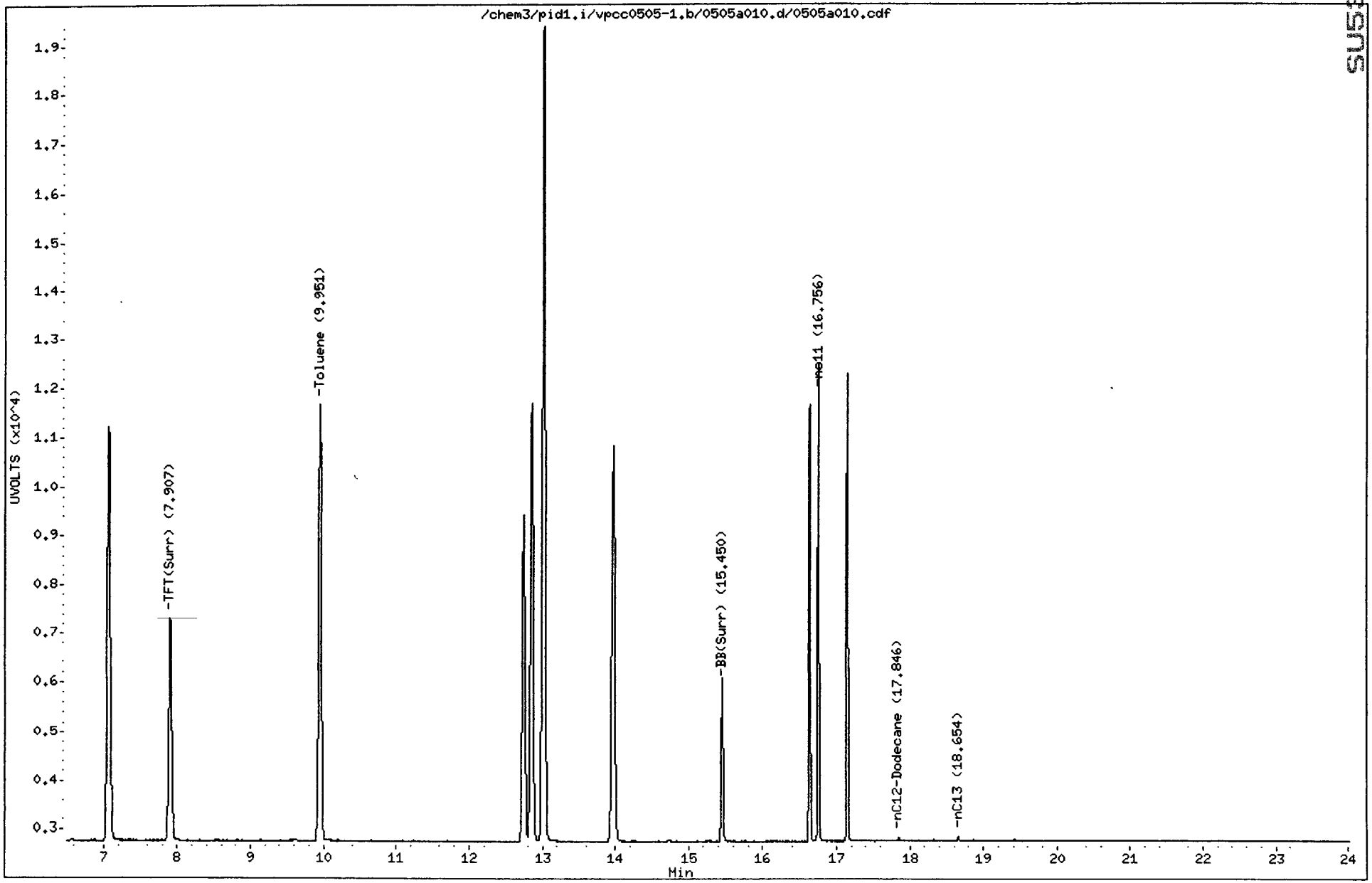
Sample Info: BETX 100

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a010.d

Date : 05-MAY-2011 14:34

Client ID:

Sample Info: BETX 100

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpcc0505-2.b/0505a010.d/0505a010.cdf

UVOLTS (x10^4)

-MTBE (4.537)

-Benzene (7.064)

-TFT(Surr) (7.905)

-Toluene (9.949)

-Ethylbenzene (12.853)

M/P-Xylene (13.017)

-O-Xylene (13.973)

-BB(Surr) (15.450)

Min

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a011.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a011.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BETX 200
Client ID:
Injection Date: 05-MAY-2011 15:04
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	5023	68038	192.4	TFT(Surr)
15.448	0.000	3679	30529	194.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	1629344	5.100
8015B 2MP-TMB	(4.17 to 16.26)	652210	1596899	2.448
AK101 nC6-nC10	(4.67 to 15.16)	527526	1497960	2.840
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	1629964	4.793

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	11037	197.2	TFT(Surr)
15.448	0.000	24144	203.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.066	0.000	67927	182.53	Benzene
9.950	0.000	65202	191.75	Toluene
12.855	0.000	58728	202.02	Ethylbenzene
13.022	0.000	126175	391.25	M/P-Xylene
13.974	0.000	51620	204.61	O-Xylene
4.539	0.000	22675	196.64	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a011.d

Date : 05-MAY-2011 15:04

Client ID:

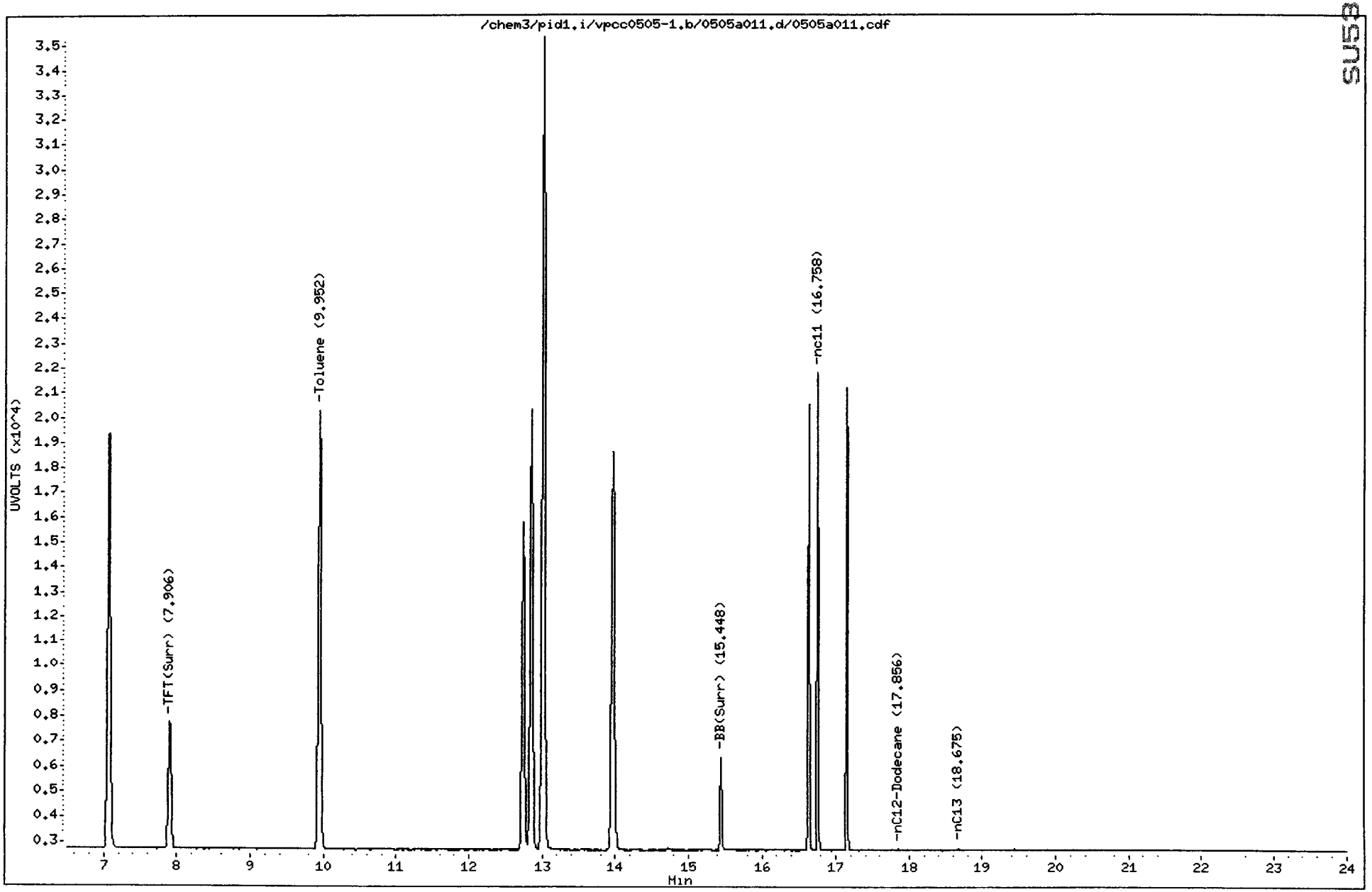
Sample Info: BETX 200

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a011.d

Date : 05-MAY-2011 15:04

Client ID:

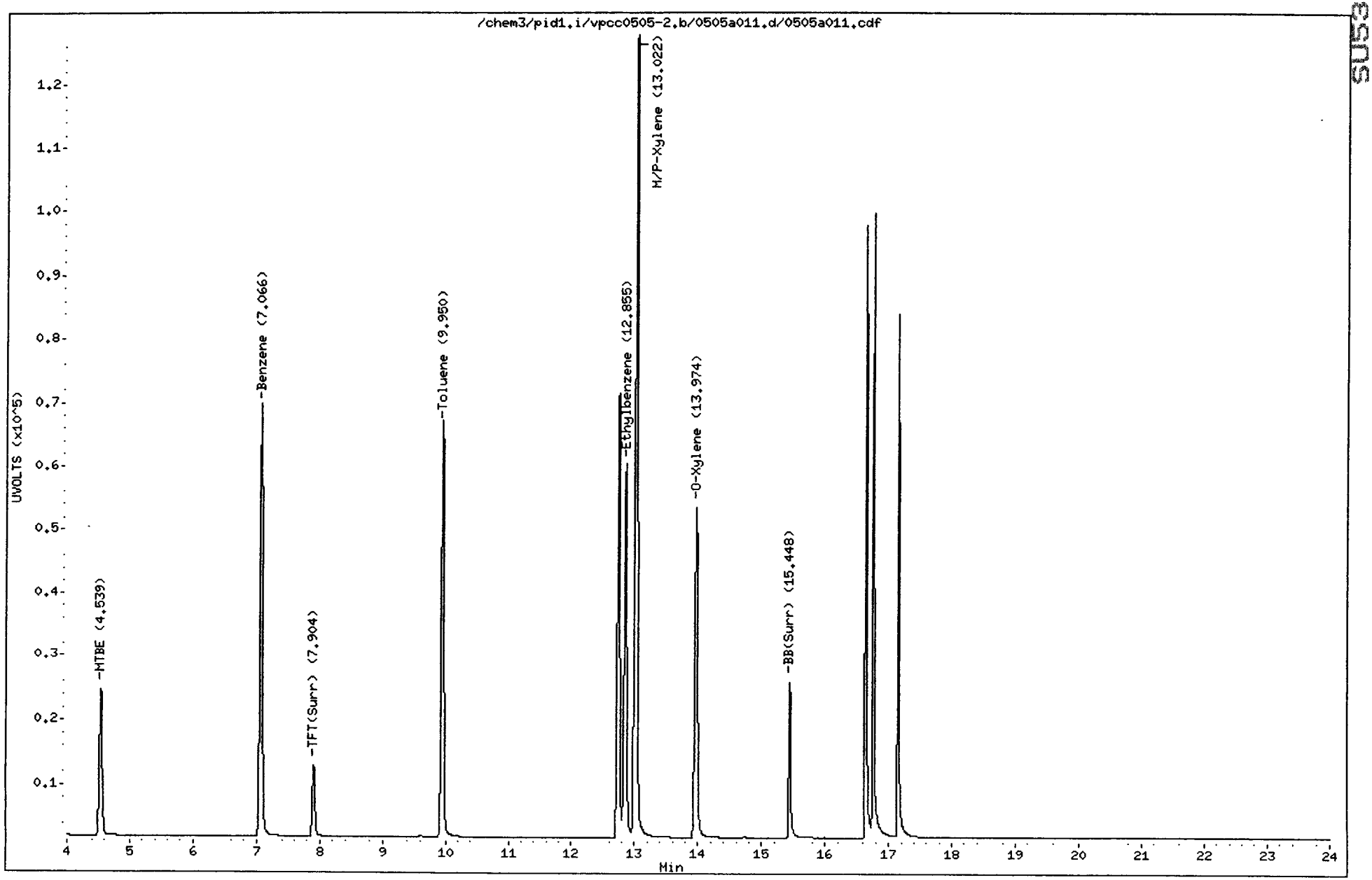
Sample Info: BETX 200

Instrument: pid1.i

Operator: MH

Column phase: RTX 502-2 PID

Column diameter: 0.18



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a012.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a012.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BETX ICV
Client ID:
Injection Date: 05-MAY-2011 15:33
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.000	2508	33725	96.1	TFT(Surr)
15.449	0.001	1879	15537	99.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	226315	0.708
8015B 2MP-TMB	(4.17 to 16.26)	652210	219810	0.337
AK101 nC6-nC10	(4.67 to 15.16)	527526	205657	0.390
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	226943	0.667

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	5373	96.0	TFT(Surr)
15.448	0.001	11815	99.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.059	-0.007	9096	24.44	Benzene
9.948	-0.002	8417	24.75	Toluene
12.850	-0.005	7584	26.09	Ethylbenzene
13.012	-0.010	16238	50.35	M/P-Xylene
13.970	-0.004	6546	25.95	O-Xylene
4.537	-0.002	3123	27.08	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a012.d

Date : 05-MAY-2011 15:33

Client ID:

Sample Info: BETX ICV

Column phase: RTX 502-2 FID

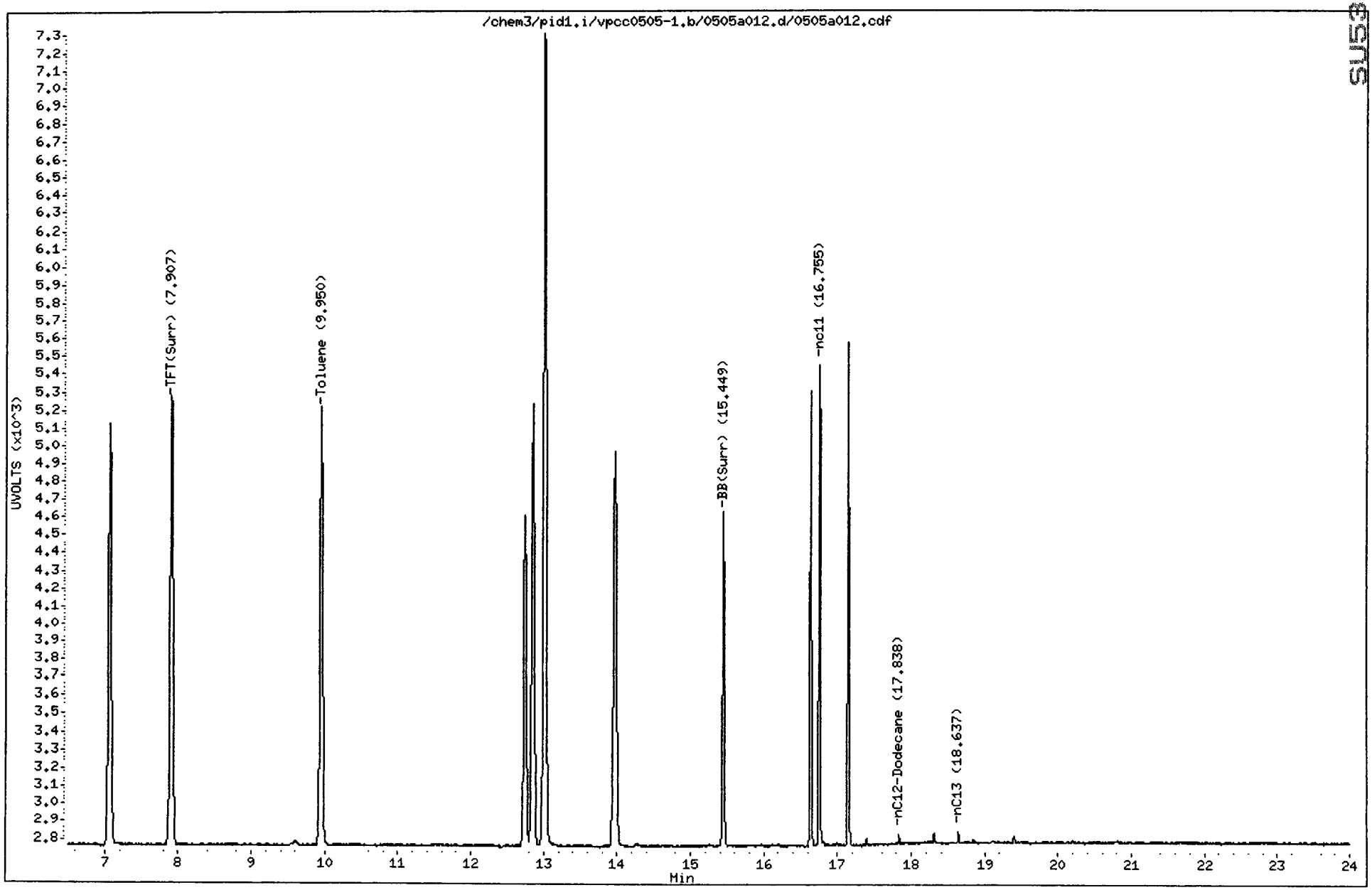
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3662

SI53:01141



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a012.d

Date : 05-MAY-2011 15:33

Client ID:

Sample Info: BETX ICV

Instrument: pid1.i

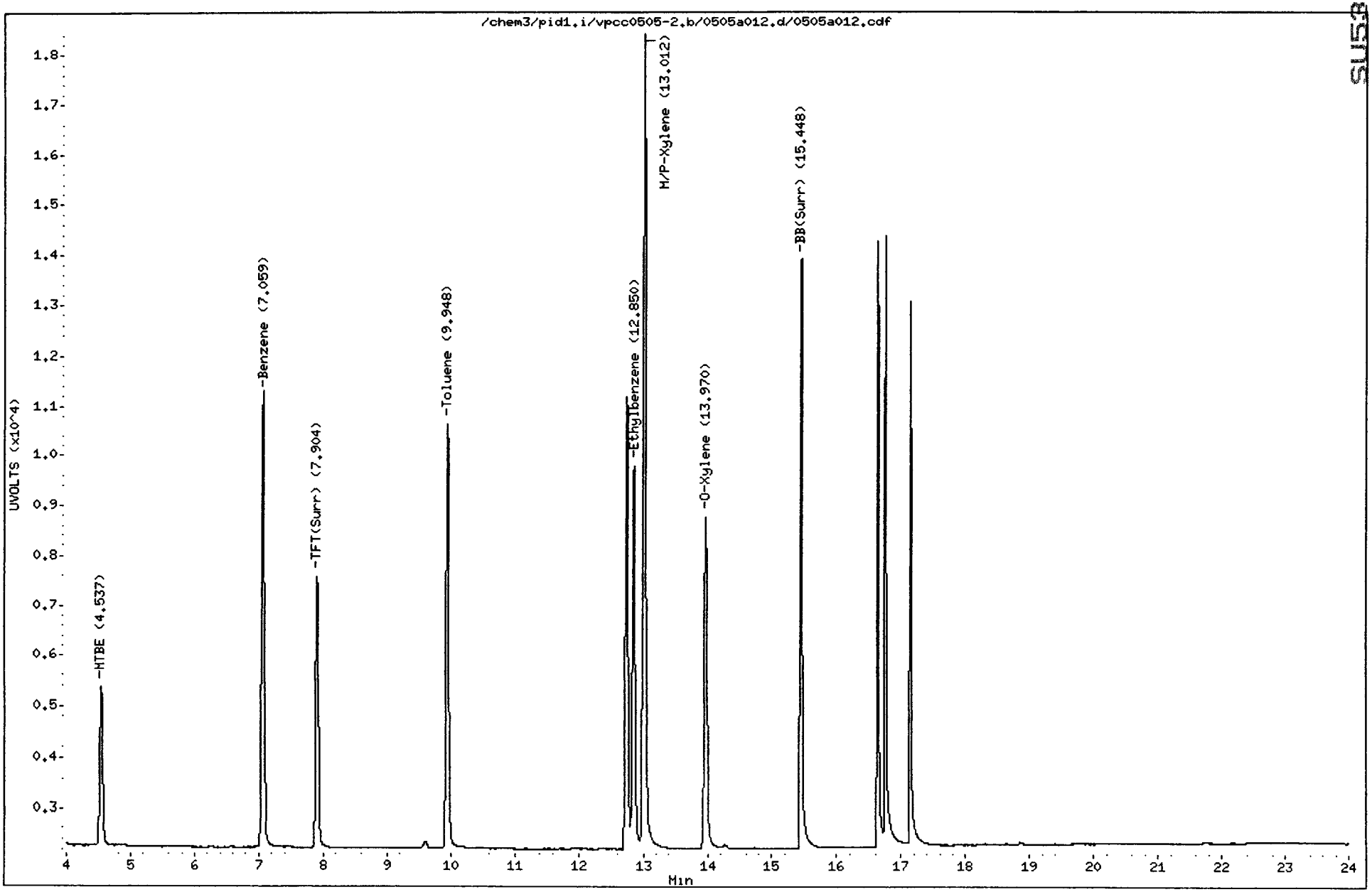
Operator: MH

Column phase: RTX 502-2 PID

Column diameter: 0.18

3663

SUS3:01142



Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0505-1.b/FID.m
Batch File: /chem3/pid1.i/vpcc0505-1.b
Inst ID: pid1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0505a005	0505a006	0505a007	0505a008	0505a009	0505a010	0505a011
INJ.DATE:	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011
INJ.TIME:	12:09	12:38	13:07	13:36	14:05	14:34	15:04

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 NWTPHG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.492	0.422-0.562	+++++	+++++
20 WAGAS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.937	0.867-1.007	+++++	+++++
19 AK101	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.251	1.181-1.321	+++++	+++++
21 8015GAS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.539	1.469-1.609	+++++	+++++
1 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.268	4.198-4.338	+++++	+++++
2 nC6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.774	4.704-4.844	+++++	+++++
3 nC7	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.859	6.789-6.929	+++++	+++++
$ 4 TFT(Surr)	7.905	7.904	7.905	7.906	7.908	7.907	7.906	7.905	7.835-7.975	7.906	0.002
5 nC8	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.543	9.473-9.613	+++++	+++++
6 Toluene	9.946	9.949	9.948	9.949	9.951	9.951	9.952	9.946	9.876-10.016	9.950	0.002
7 nC9	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.478	12.408-12.548	+++++	+++++
$ 22 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.027	15.957-16.097	+++++	+++++
8 nC10-Decane	15.260	+++++	+++++	+++++	+++++	+++++	+++++	15.260	15.190-15.330	15.260	0.000
$ 9 BB(Surr)	15.449	15.448	15.449	15.449	15.450	15.450	15.448	15.449	15.379-15.519	15.449	0.001
10 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.159	16.089-16.229	+++++	+++++
11 nc11	16.756	16.756	16.754	16.755	16.756	16.756	16.758	16.756	16.686-16.826	16.756	0.001
12 nC12-Dodecane	17.836	17.836	17.838	17.844	17.845	17.846	17.856	17.836	17.766-17.906	17.843	0.007

Reviewer 1 MH Date: 5/9/11
Reviewer 2 [signature] Date: 5/9/11

SU53 : 01143

3664

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Batch File: /chem3/pid1.i/vpcc0505-2.b
Inst ID: pid1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0505a005	0505a006	0505a007	0505a008	0505a009	0505a010	0505a011
INJ.DATE:	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011
INJ.TIME:	12:09	12:38	13:07	13:36	14:05	14:34	15:04

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 MTBE	4.537	4.533	4.534	4.536	4.538	4.537	4.539	4.537	4.487-4.587	4.536	0.002
2 Benzene	7.053	7.053	7.054	7.058	7.063	7.064	7.066	7.053	7.003-7.103	7.059	0.006
$ 3 TFT(Surr)	7.903	7.902	7.903	7.904	7.906	7.905	7.904	7.903	7.853-7.953	7.904	0.001
4 Toluene	9.947	9.947	9.946	9.947	9.949	9.949	9.950	9.947	9.897-9.997	9.948	0.002
15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.068	13.018-13.118	+++++	+++++
5 Ethylbenzene	12.847	12.850	12.849	12.850	12.852	12.853	12.855	12.847	12.797-12.897	12.851	0.003
6 M/P-Xylene	13.013	13.011	13.010	13.012	13.015	13.017	13.022	13.013	12.963-13.063	13.014	0.004
7 O-Xylene	13.973	13.967	13.969	13.969	13.972	13.973	13.974	13.973	13.943-14.003	13.971	0.003
$ 19 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.006	15.976-16.036	+++++	+++++
$ 8 BB(Surr)	15.450	15.447	15.448	15.449	15.449	15.450	15.448	15.450	15.400-15.500	15.449	0.001
13 1,3,5 Trimethyl Benzen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.433	16.403-16.463	+++++	+++++
14 1,2,4 Trimethyl Benzen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.905	16.875-16.935	+++++	+++++
16 1,3 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.863	16.833-16.893	+++++	+++++
17 1,4 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.979	16.949-17.009	+++++	+++++
18 1,2 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.371	17.341-17.401	+++++	+++++

Reviewer 1 MH Date: 5/9/11
Reviewer 2 Date:

3665

SU53:01144

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a014.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a014.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GAS .1
Client ID:
Injection Date: 05-MAY-2011 16:31
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.001	2443	33830	93.6	TFT(Surr)
15.450	0.002	1822	15867	96.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	33623	0.105 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	69378	0.106 M
AK101 nC6-nC10	(4.67 to 15.16)	527526	56916	0.108 M
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	36506	0.107 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5135	91.7	TFT(Surr)
15.449	0.001	11482	96.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.056	-0.011	154	0.41	Benzene
9.949	-0.001	1233	3.63	Toluene
12.851	-0.005	307	1.06	Ethylbenzene
13.014	-0.008	1240	3.85	M/P-Xylene
13.971	-0.003	447	1.77	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a014.d

Date : 05-MAY-2011 16:31

Client ID:

Sample Info: GAS .1

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

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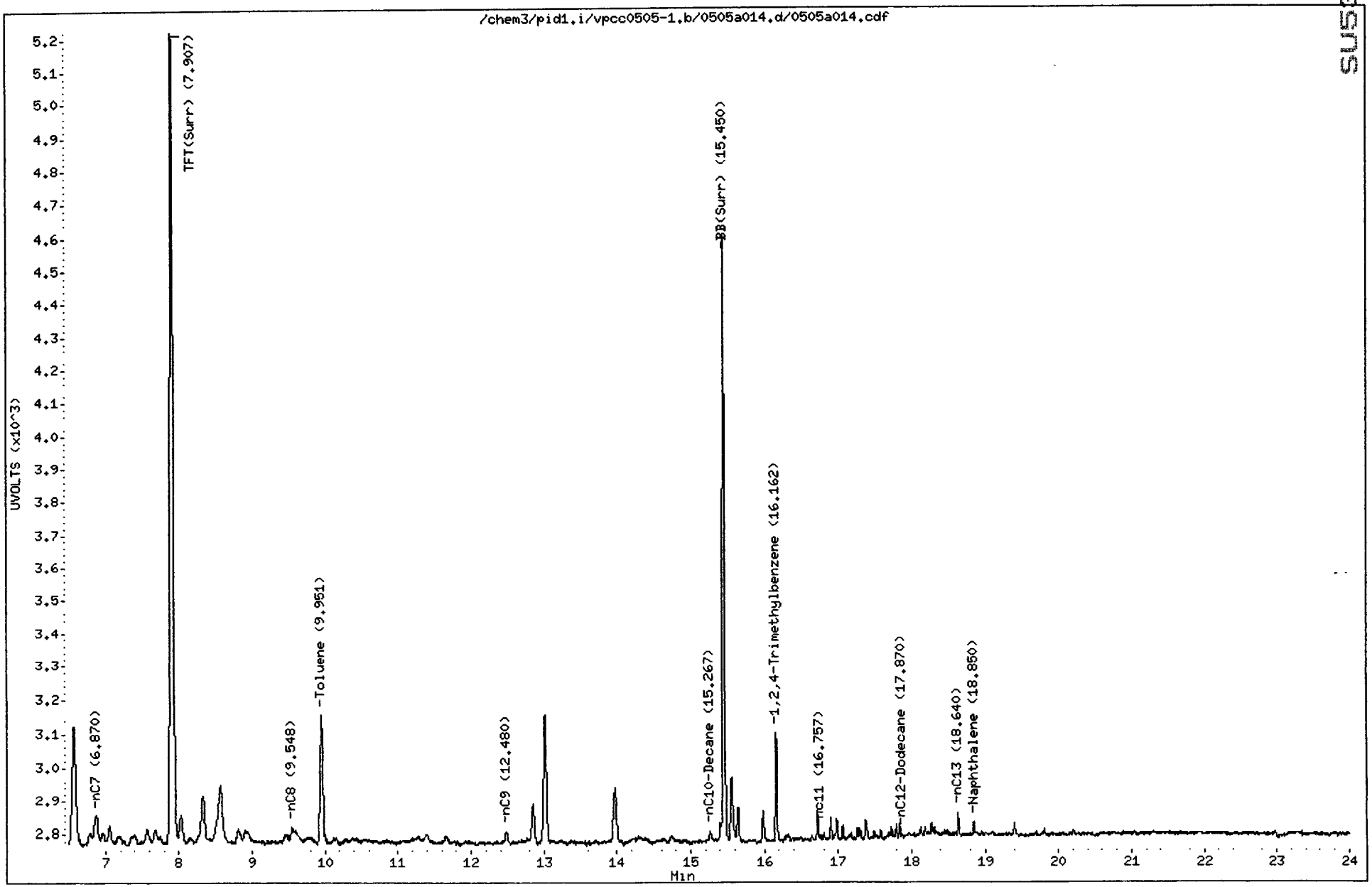
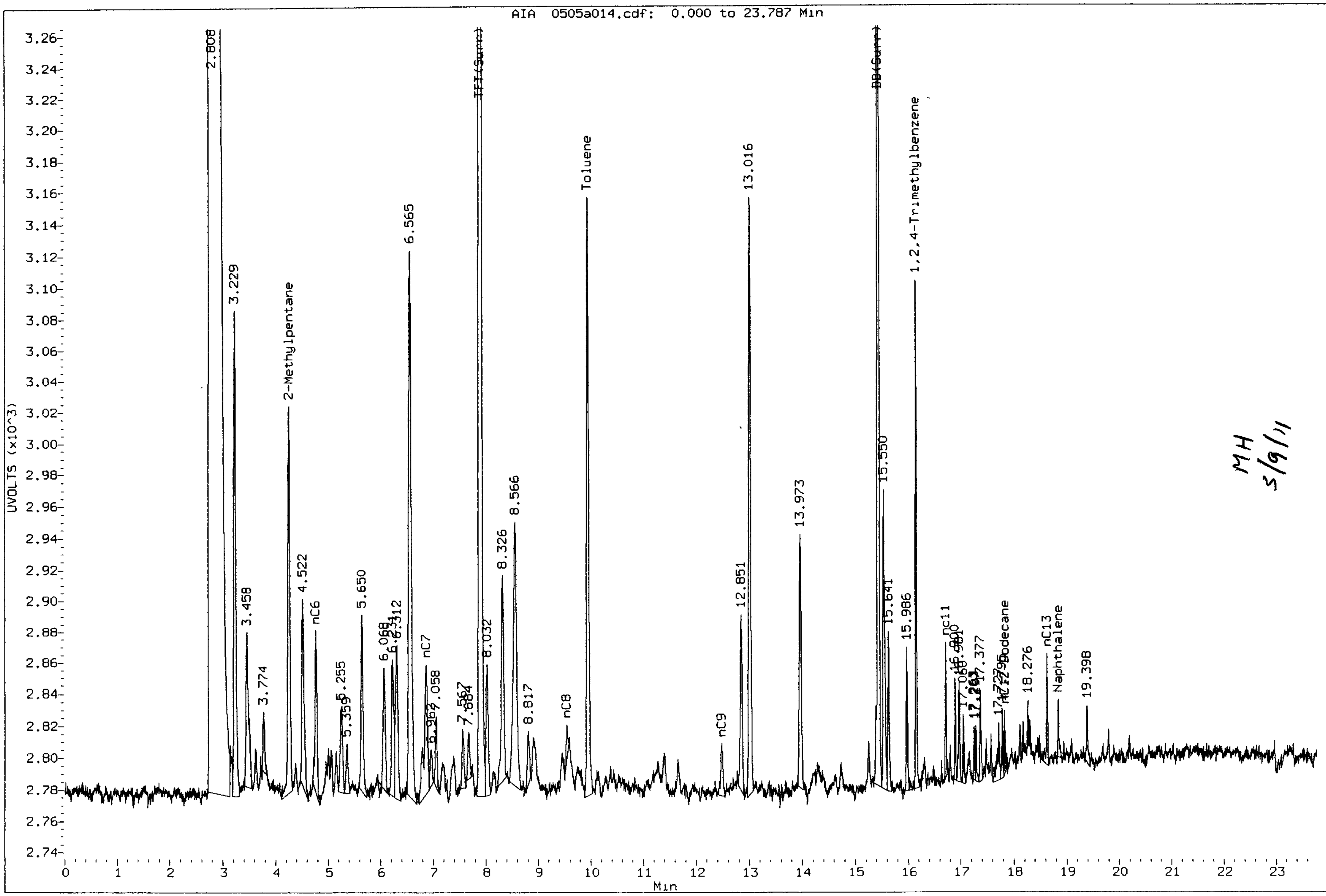


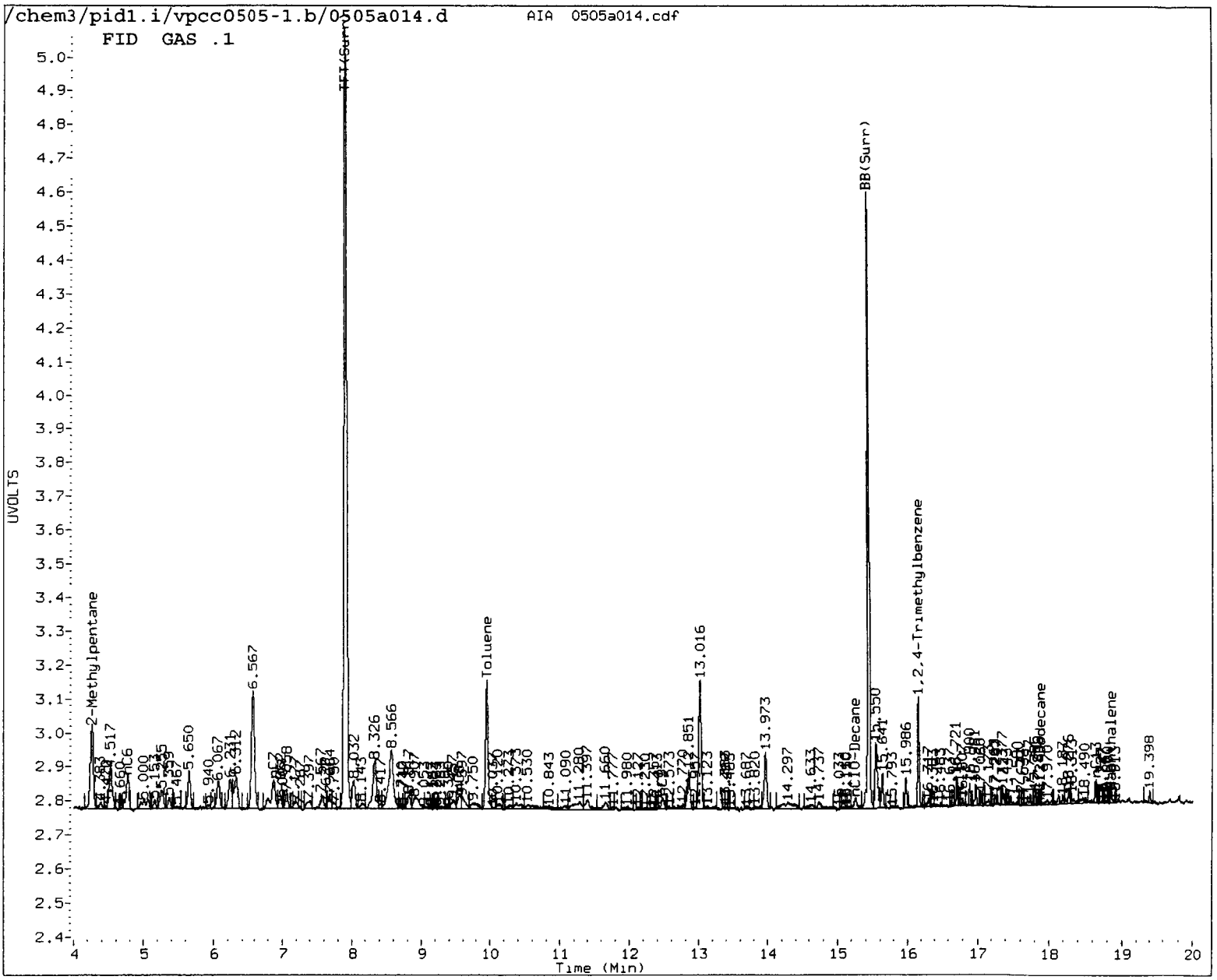
Data File: /chem3/pid1.i/vpcc0505-1.b/0505a014.d/0505a014.cdf
Injection Date: 05-MAY-2011 16:31
Instrument: pid1.i
Client Sample ID:



MH
5/9/11

3668

SU53 01147



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a015.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a015.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GAS .25
Client ID:
Injection Date: 05-MAY-2011 17:00
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.000	2475	34823	94.8	TFT(Surr)
15.449	0.001	1831	15591	97.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	80415	0.252 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	163176	0.250 M
AK101 nC6-nC10	(4.67 to 15.16)	527526	131016	0.248 M
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	86074	0.253 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5240	93.6	TFT(Surr)
15.449	0.001	11642	97.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.056	-0.011	347	0.93	Benzene
9.948	-0.002	3055	8.98	Toluene
12.850	-0.005	787	2.71	Ethylbenzene
13.014	-0.008	3080	9.55	M/P-Xylene
13.971	-0.004	1125	4.46	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a015.d

Date : 05-MAY-2011 17:00

Client ID:

Sample Info: GAS .25

Column phase: RTX 502-2 FID

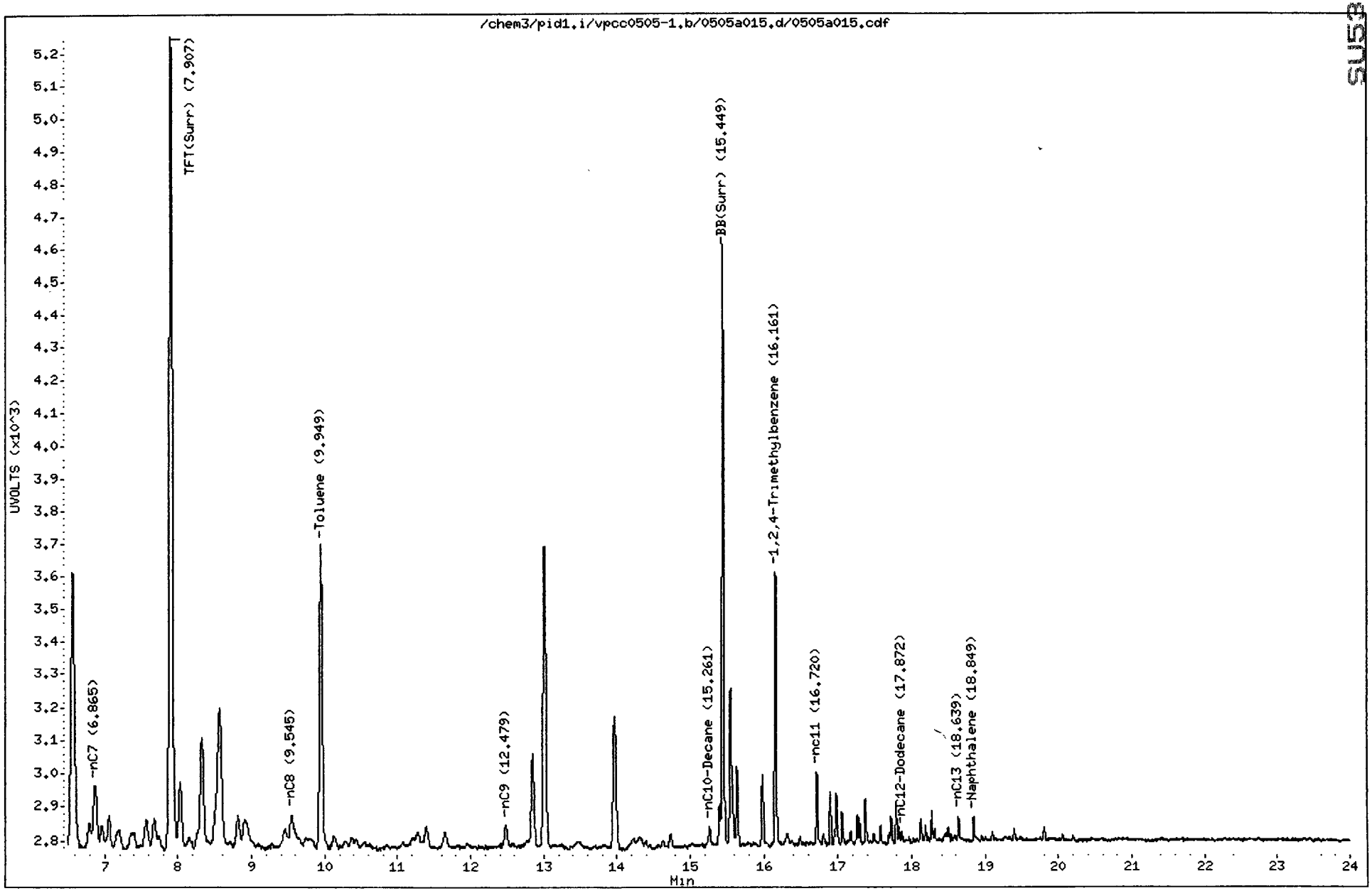
Instrument: pid1.i

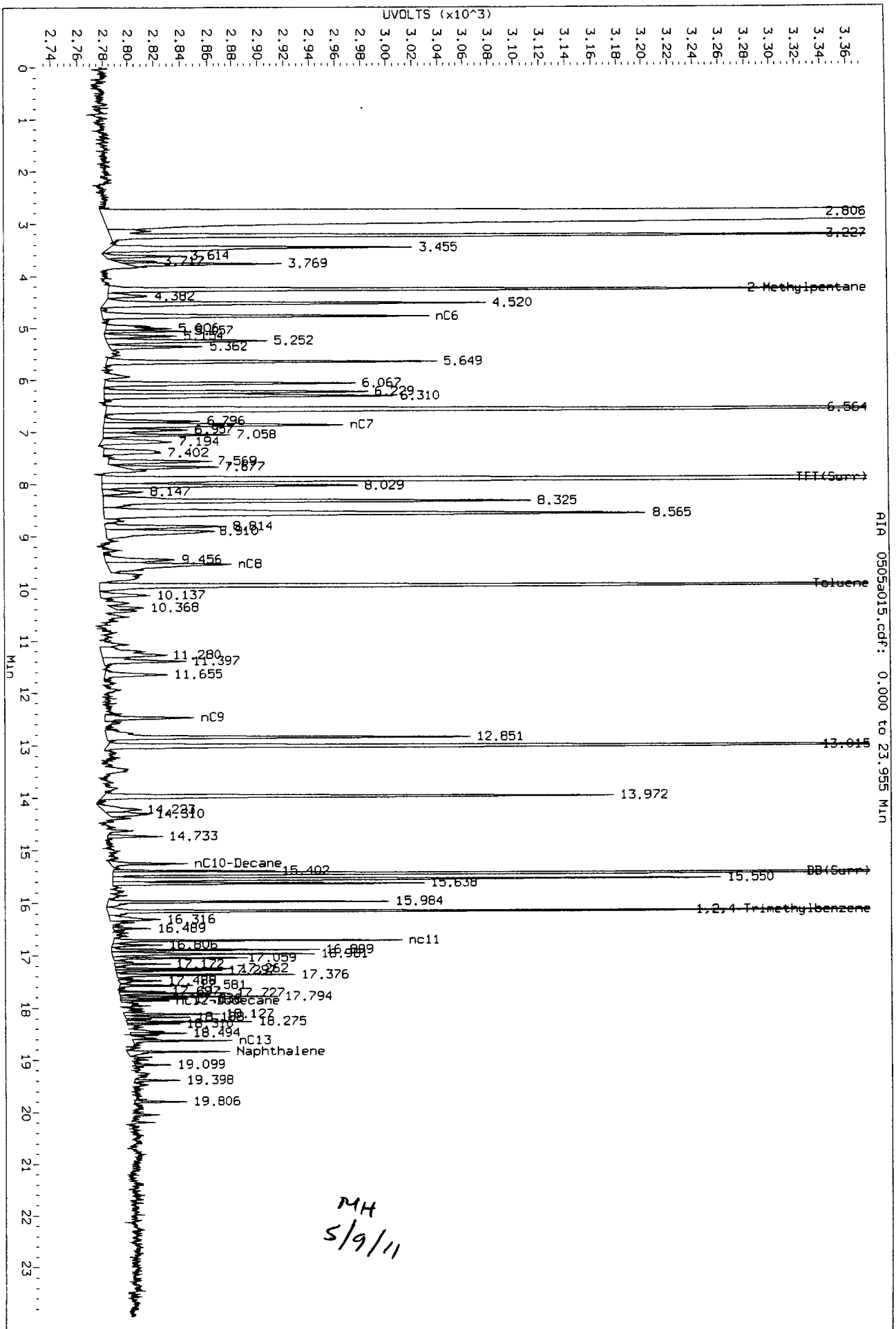
Operator: MH

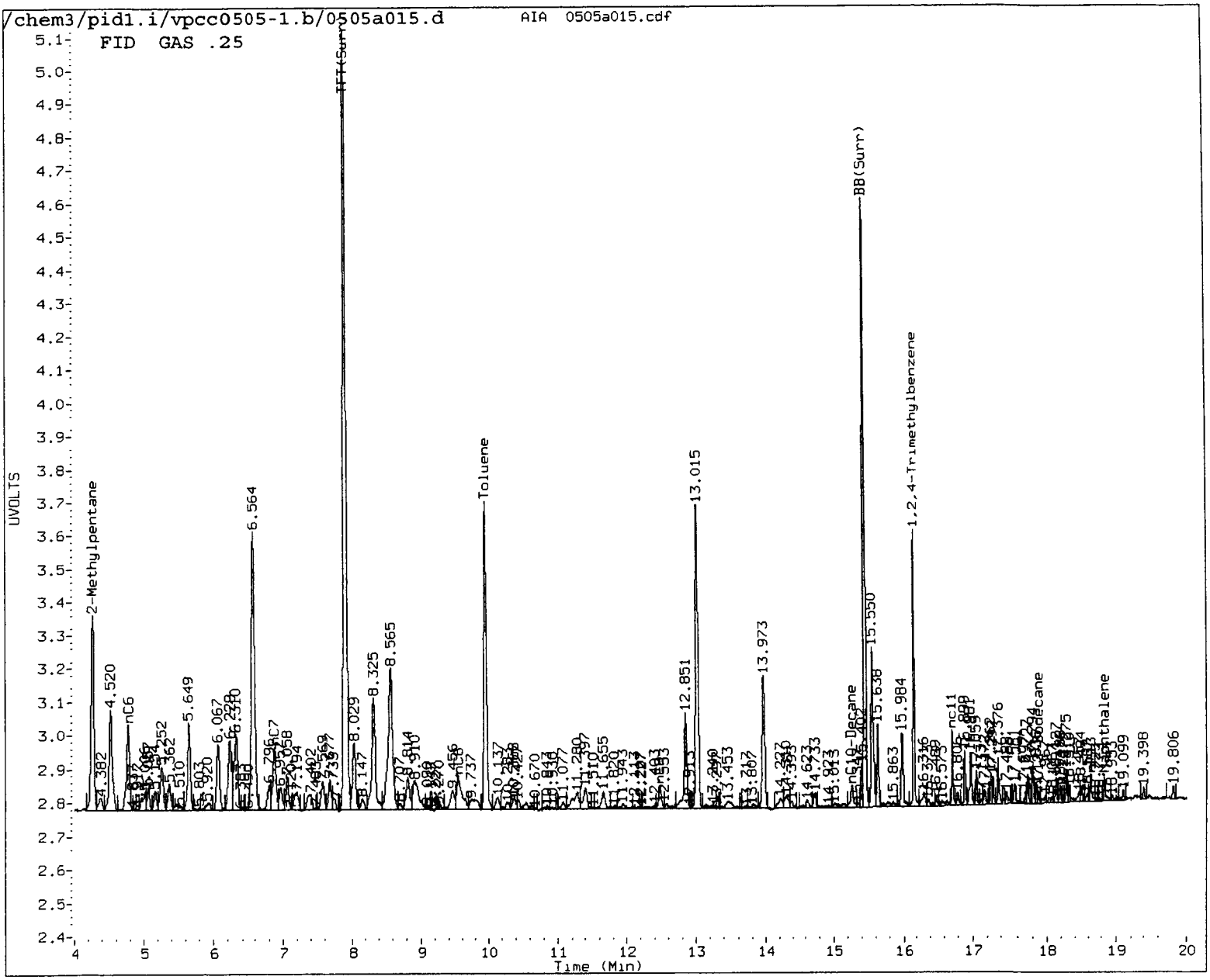
Column diameter: 0.18

3671

SUSS : 01150




Data File: /chem3/pid1.i/vpcc0505-1.b/0505a015.d/0505a015.cdf
Injection Date: 05-MAY-2011 17:00
Instrument: pid1.i
Client Sample ID:
UVOLTS (x10^3)
Min
AIA 0505a015.cdf: 0.000 to 23.955 Min
2.806
3.227
3.455
3.614
3.769
2-Methylpentane
4.382
4.520
nC6
5.252
5.362
5.649
6.067
6.310
6.564
nC7
7.058
7.194
7.402
7.677
TFT(Surr)
8.029
8.147
8.325
8.565
8.814
nC8
9.456
Toluene
10.137
10.368
11.280
11.397
11.655
nC9
12.851
13.015
13.972
14.310
14.733
nC10-Decane
15.402
15.550
BB(Surr)
15.638
15.984
1,2,4-Trimethylbenzene
16.316
16.489
nc11
16.806
17.059
17.172
17.376
17.488
17.581
17.794
nC12-Dodecane
18.275
18.494
nC13
Naphthalene
19.099
19.398
19.806
MH
5/9/11



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a016.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a016.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GAS 1
Client ID:
Injection Date: 05-MAY-2011 17:30
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	2644	40335	101.3	TFT(Surr)
15.449	0.001	1868	16342	99.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	304072	0.952 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	630988	0.967 M
AK101 nC6-nC10	(4.67 to 15.16)	527526	506656	0.960 M
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	323980	0.953 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	5514	98.5	TFT(Surr)
15.449	0.001	11873	99.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.063	-0.003	1246	3.35	Benzene
9.948	-0.002	12410	36.50	Toluene
12.850	-0.005	3161	10.87	Ethylbenzene
13.014	-0.008	12525	38.84	M/P-Xylene
13.970	-0.004	4509	17.87	O-Xylene
4.528	-0.010	238	2.06	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a016.d

Date : 05-MAY-2011 17:30

Client ID:

Sample Info: GAS 1

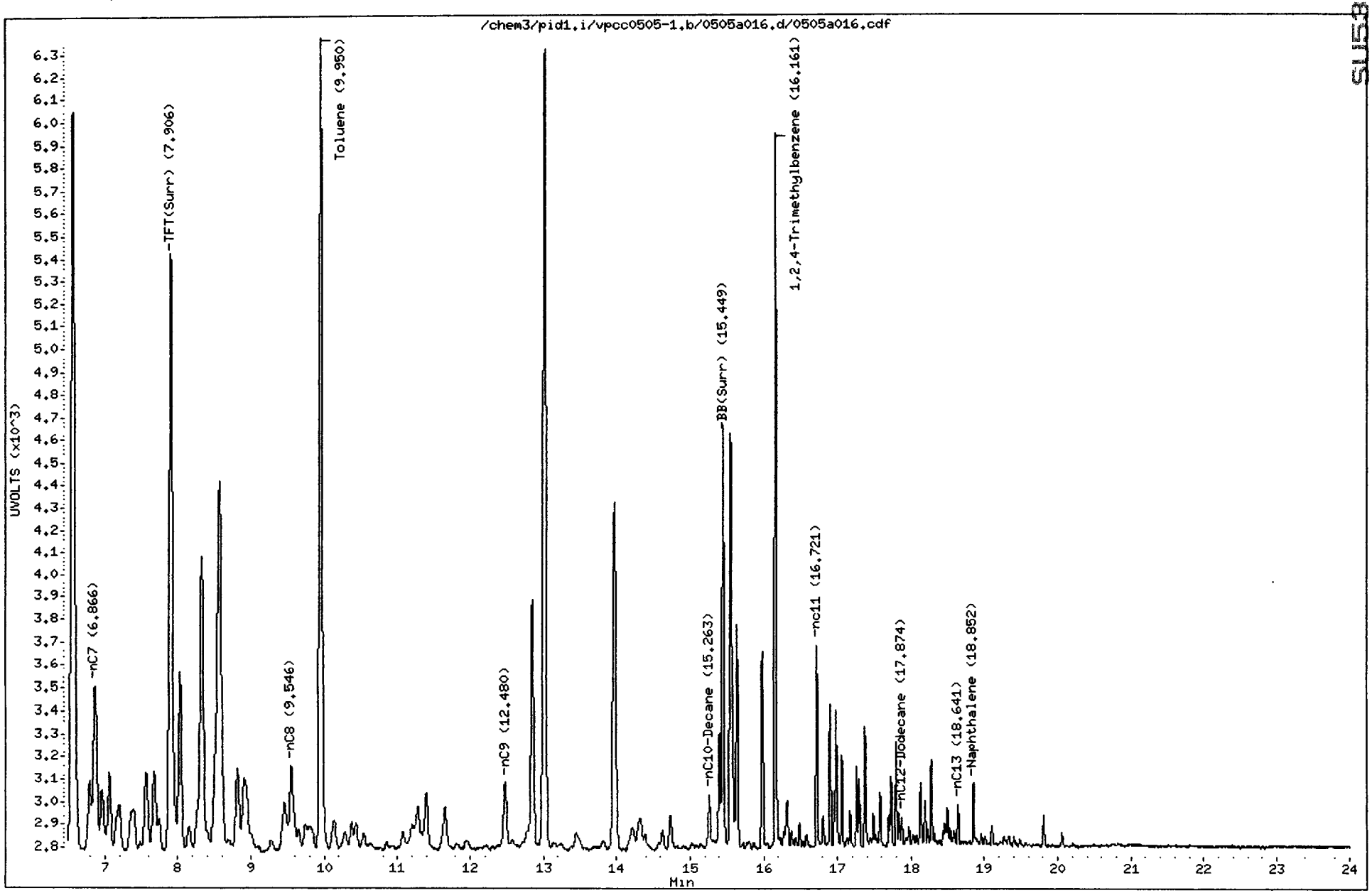
Column phase: RTX 502-2 FID

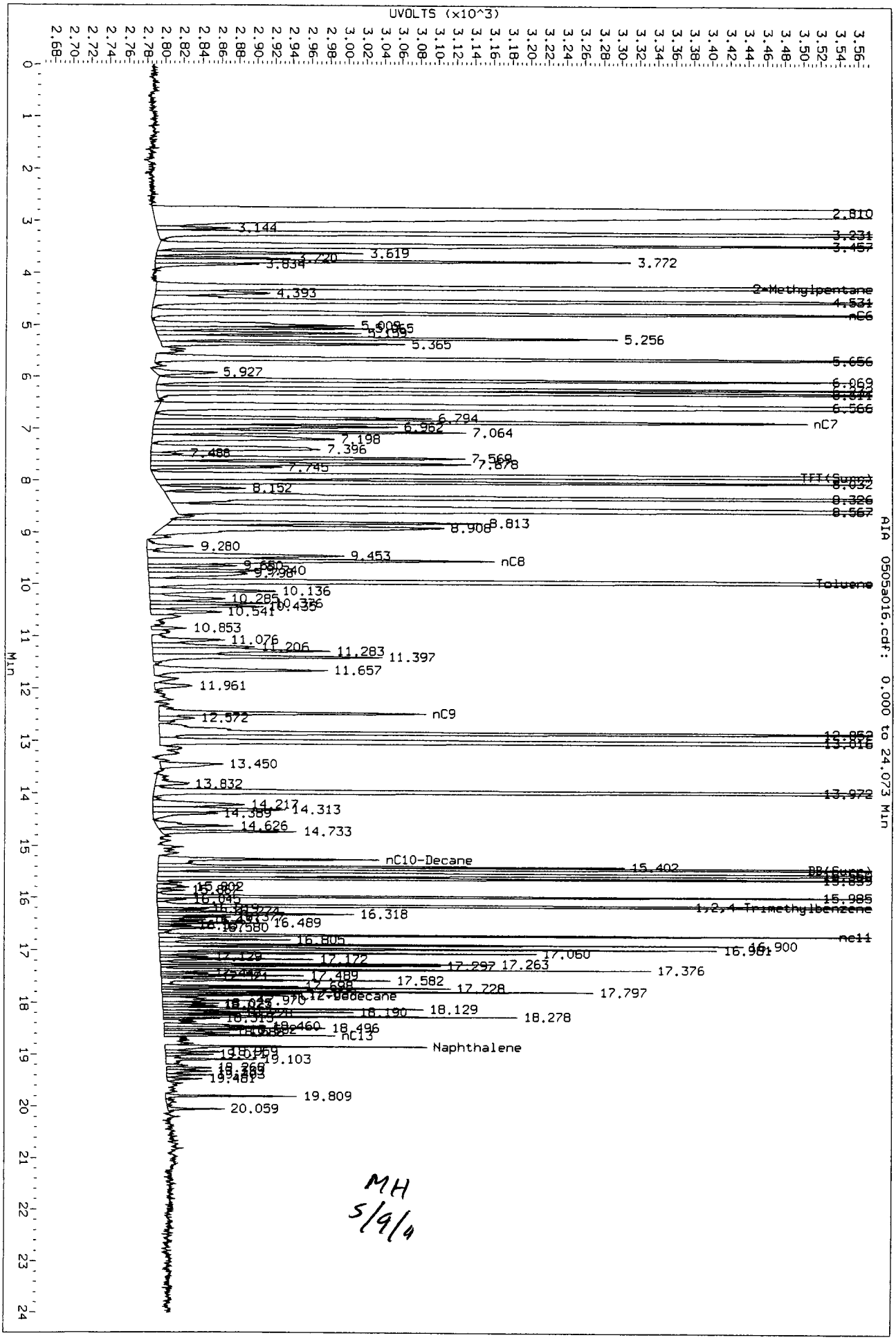
Instrument: pid1.i

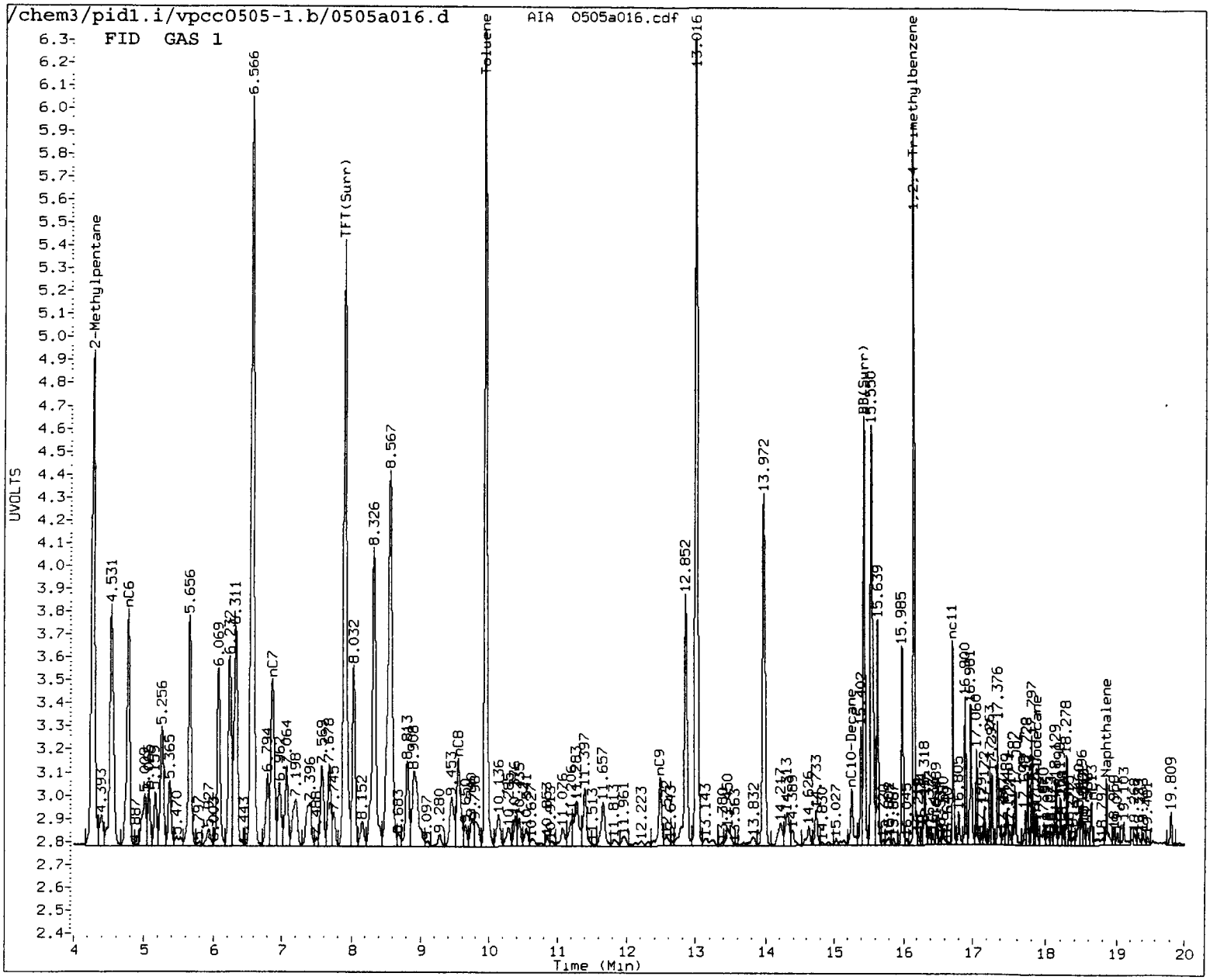
Operator: MH

Column diameter: 0.18

SU58 : 01151 3675




Data File: /chem3/pid1.i/vpcc0505-1.b/0505a016.d/0505a016.cdf
Injection Date: 05-MAY-2011 17:30
Instrument: pid1.i
Client Sample ID:
UVOLTS (x10^3)
Min
AIA 0505a016.cdf: 0.000 to 24.073 Min
2.810
3.144
3.231
3.457
3.619
3.772
4.393
2-Methylpentane
4.531
nC6
5.256
5.365
5.656
5.927
6.069
6.566
6.794
nC7
6.962
7.064
7.198
7.396
7.488
7.745
7.878
8.032
8.152
8.326
8.567
8.813
8.908
9.280
9.453
nC8
9.740
Toluene
10.136
10.285
10.455
10.541
10.853
11.076
11.206
11.283
11.397
11.657
11.961
12.572
nC9
13.450
13.832
13.972
14.217
14.313
14.389
14.626
14.733
nC10-Decane
15.402
15.985
1,2,4-Trimethylbenzene
16.318
16.489
16.805
nc11
16.900
16.981
17.060
17.172
17.263
17.297
17.376
17.489
17.582
17.697
17.728
17.797
n-Dodecane
18.129
18.190
18.278
18.460
18.496
nC13
Naphthalene
19.103
19.809
20.059
MH
5/9/11



MANUAL INTEGRATION

☒ Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a017.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a017.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GAS 2.5
Client ID:
Injection Date: 05-MAY-2011 17:59
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.905	-0.002	2757	47854	105.6	TFT(Surr)
15.449	0.001	1900	17377	100.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	781992	2.448 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	1565032	2.400 M
AK101 nC6-nC10	(4.67 to 15.16)	527526	1252284	2.374 M
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	825391	2.427 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.903	-0.001	5602	100.1	TFT(Surr)
15.449	0.001	12013	101.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.065	-0.001	3015	8.10	Benzene
9.948	-0.002	31092	91.44	Toluene
12.850	-0.005	7917	27.23	Ethylbenzene
13.016	-0.006	31311	97.09	M/P-Xylene
13.970	-0.004	11316	44.85	O-Xylene
4.539	0.000	569	4.93	MTBE

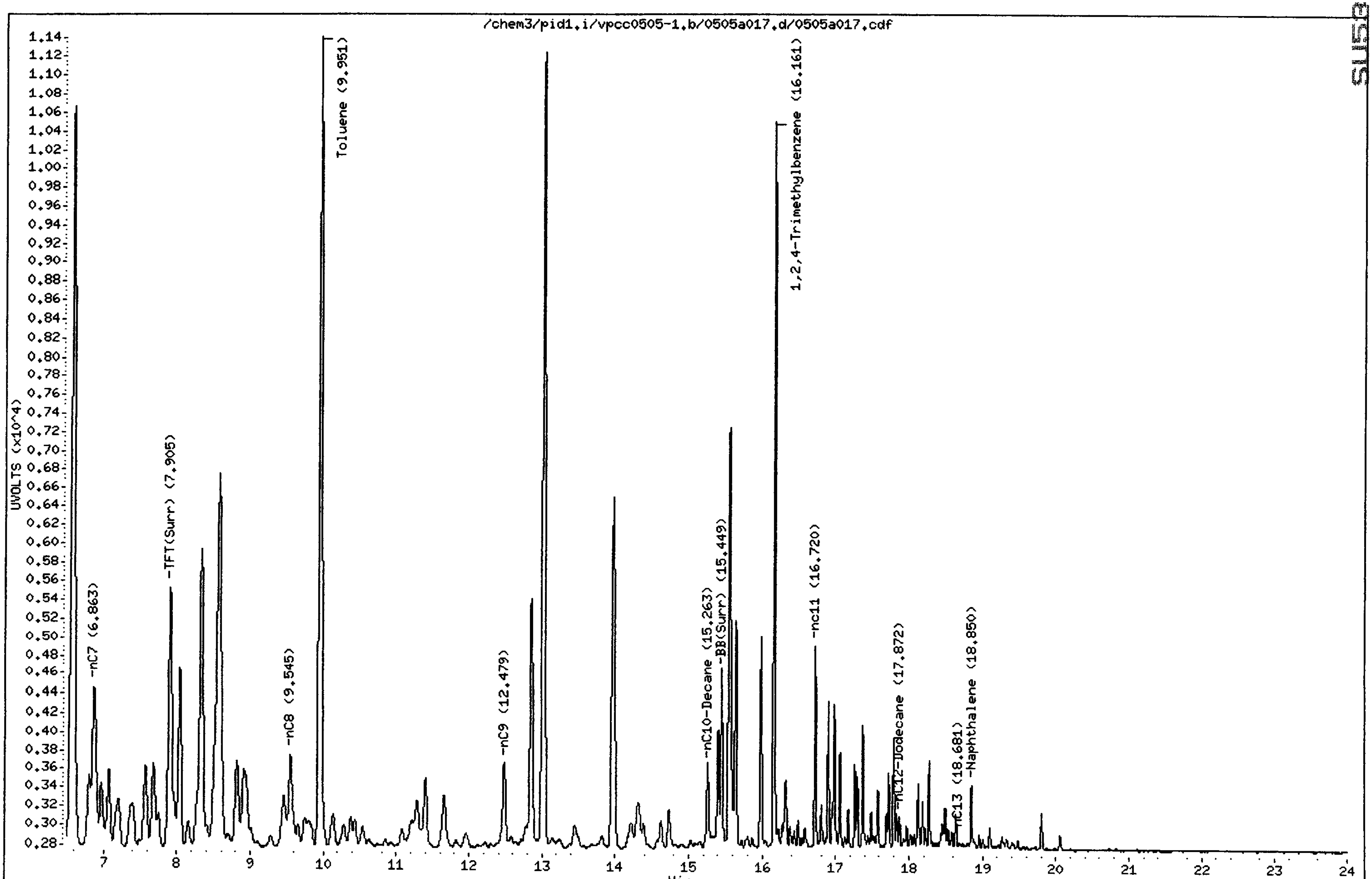
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

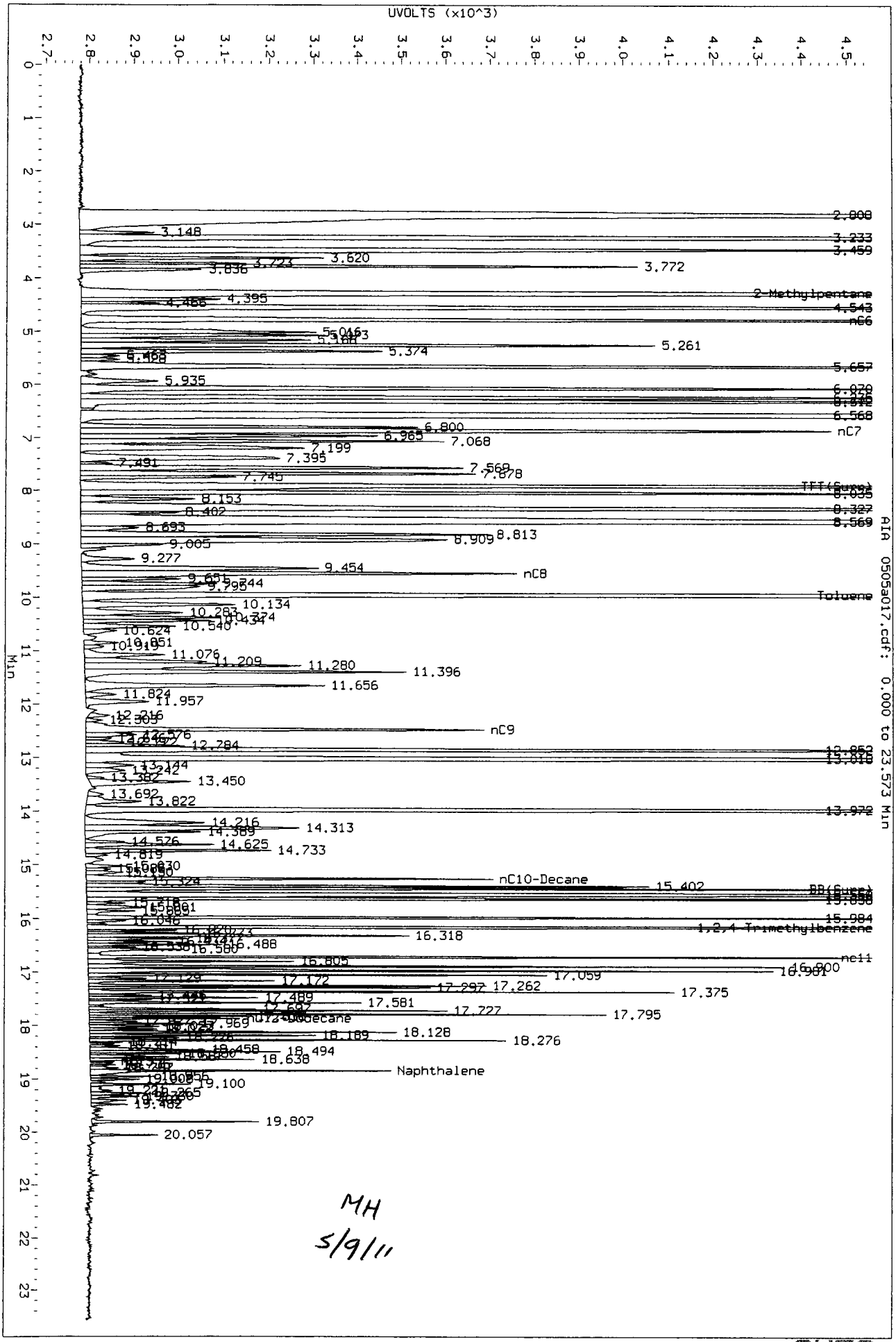
Data File: /chem3/pid1.i/vpcc0505-1.b/0505a017.d
Date : 05-MAY-2011 17:59
Client ID:
Sample Info: GAS 2.5

Column phase: RTX 502-2 FID

Instrument: pid1.i

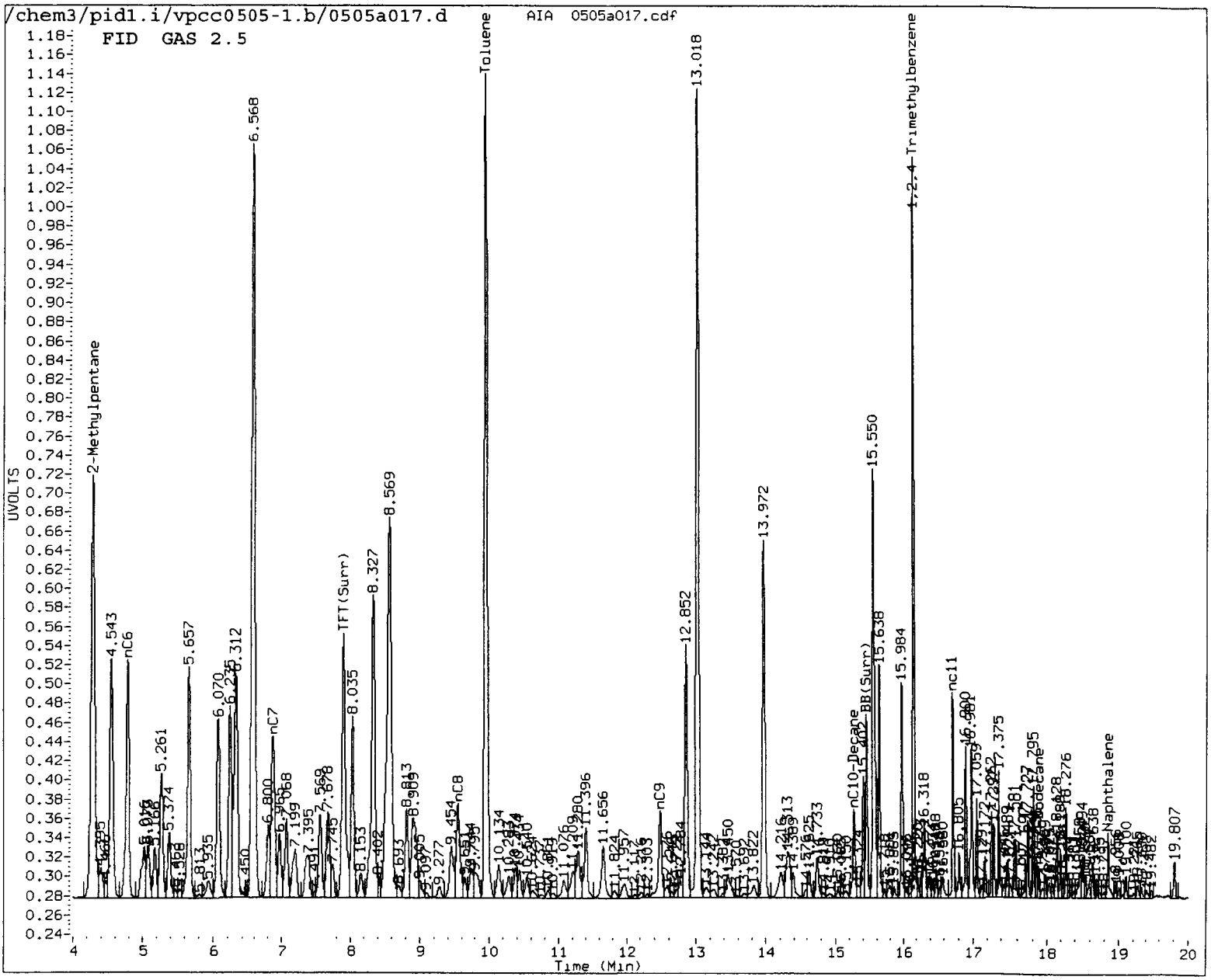
Operator: MH
Column diameter: 0.18





MH
5/9/11

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a017.d/0505a017.cdf
Injection Date: 05-MAY-2011 17:59
Instrument: pid1.i
Client Sample ID:



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a018.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a018.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GAS 5
Client ID:
Injection Date: 05-MAY-2011 18:28
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.904	-0.002	3139	51298	120.2	TFT(Surr)
15.449	0.001	1983	18851	105.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	1598812	5.004
8015B 2MP-TMB	(4.17 to 16.26)	652210	3190190	4.891 M
AK101 nC6-nC10	(4.67 to 15.16)	527526	2563780	4.860 M
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	1684838	4.954

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	6045	108.0	TFT(Surr)
15.449	0.001	12357	103.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.067	0.001	6006	16.14	Benzene
9.951	0.001	62220	182.98	Toluene
12.852	-0.004	15924	54.78	Ethylbenzene
13.020	-0.003	63217	196.03	M/P-Xylene
13.973	-0.002	22813	90.42	O-Xylene
4.543	0.005	1117	9.69	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a018.d

Date : 05-MAY-2011 18:28

Client ID:

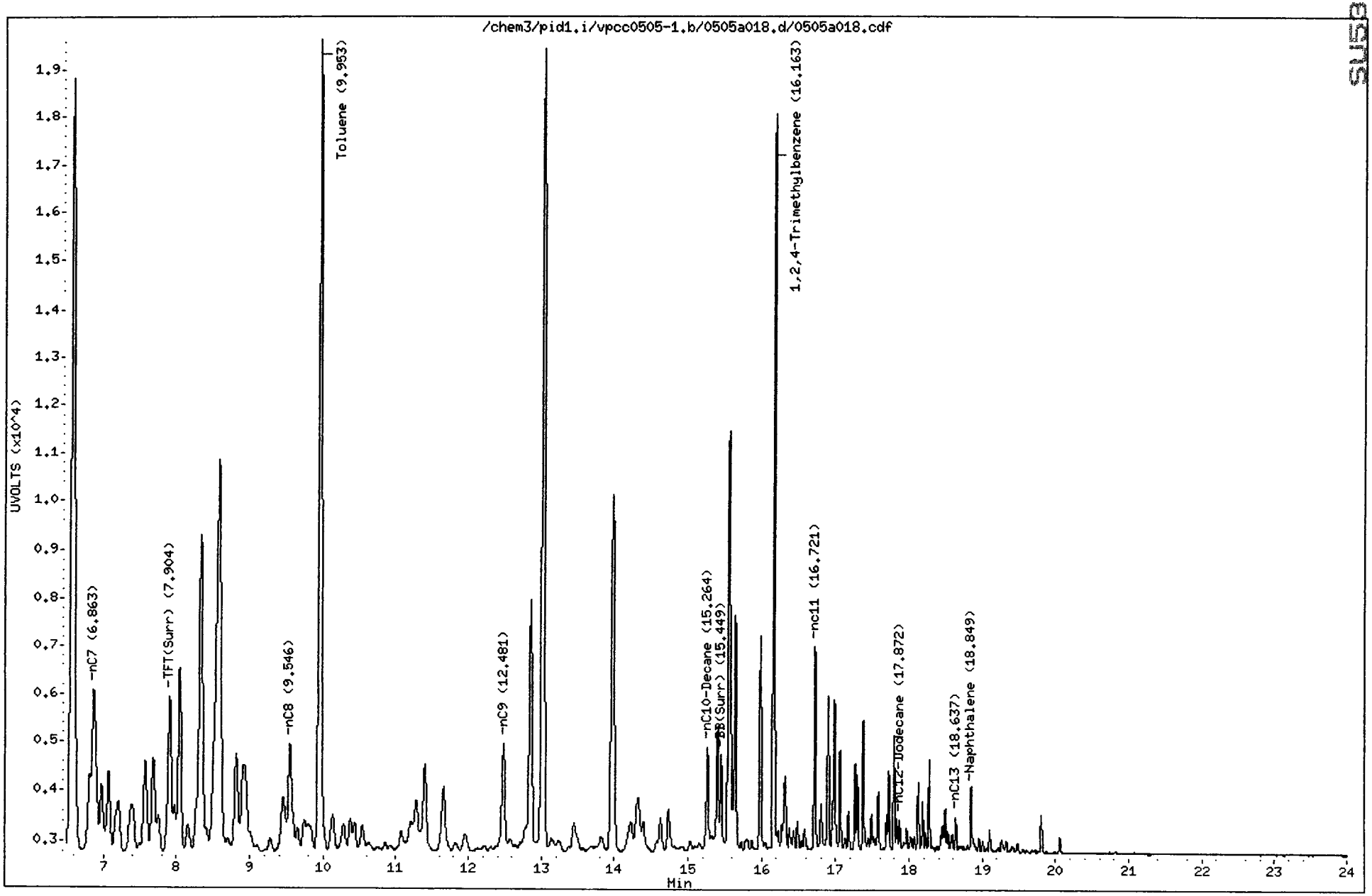
Sample Info: GAS 5

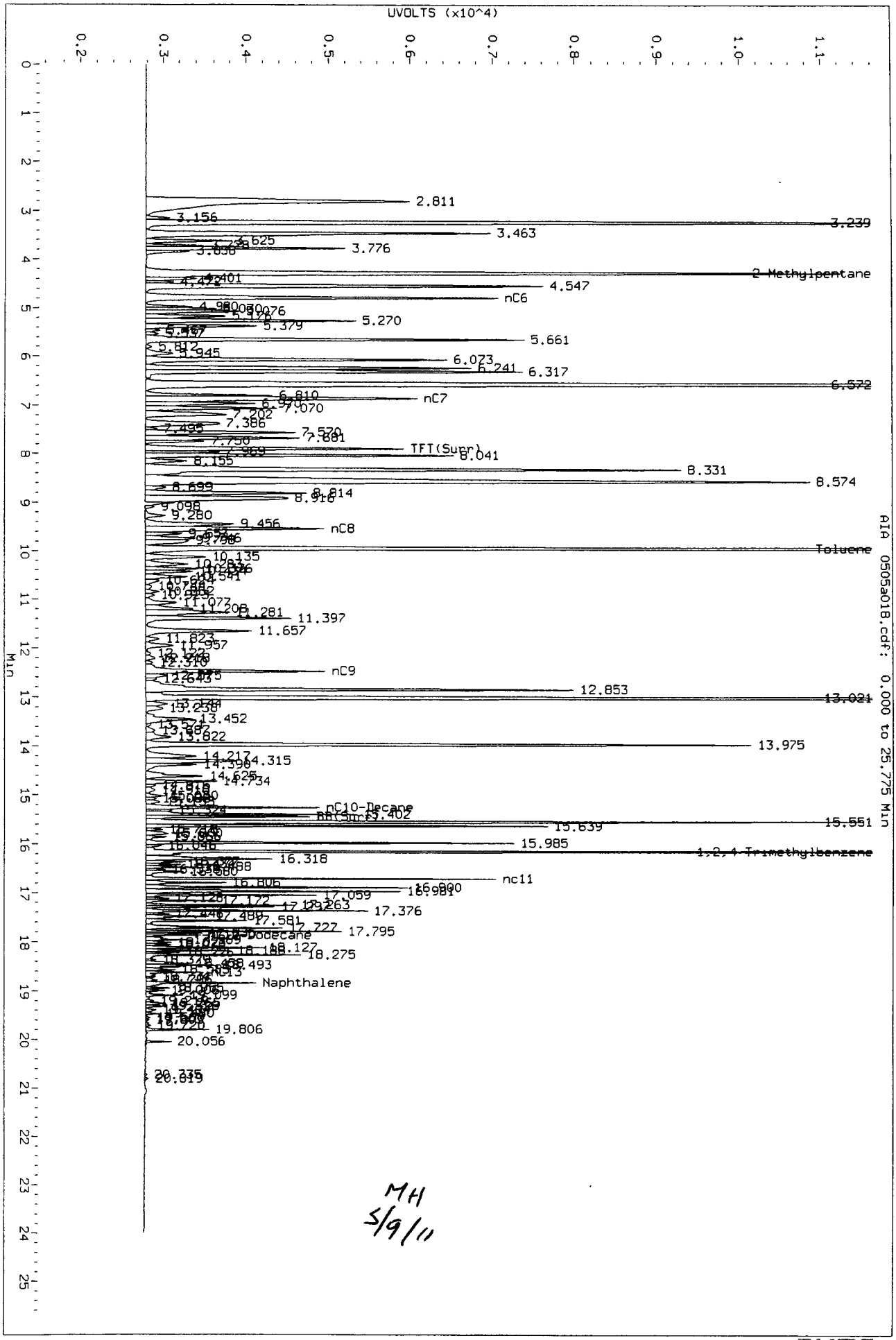
Instrument: pid1.i

Operator: MH

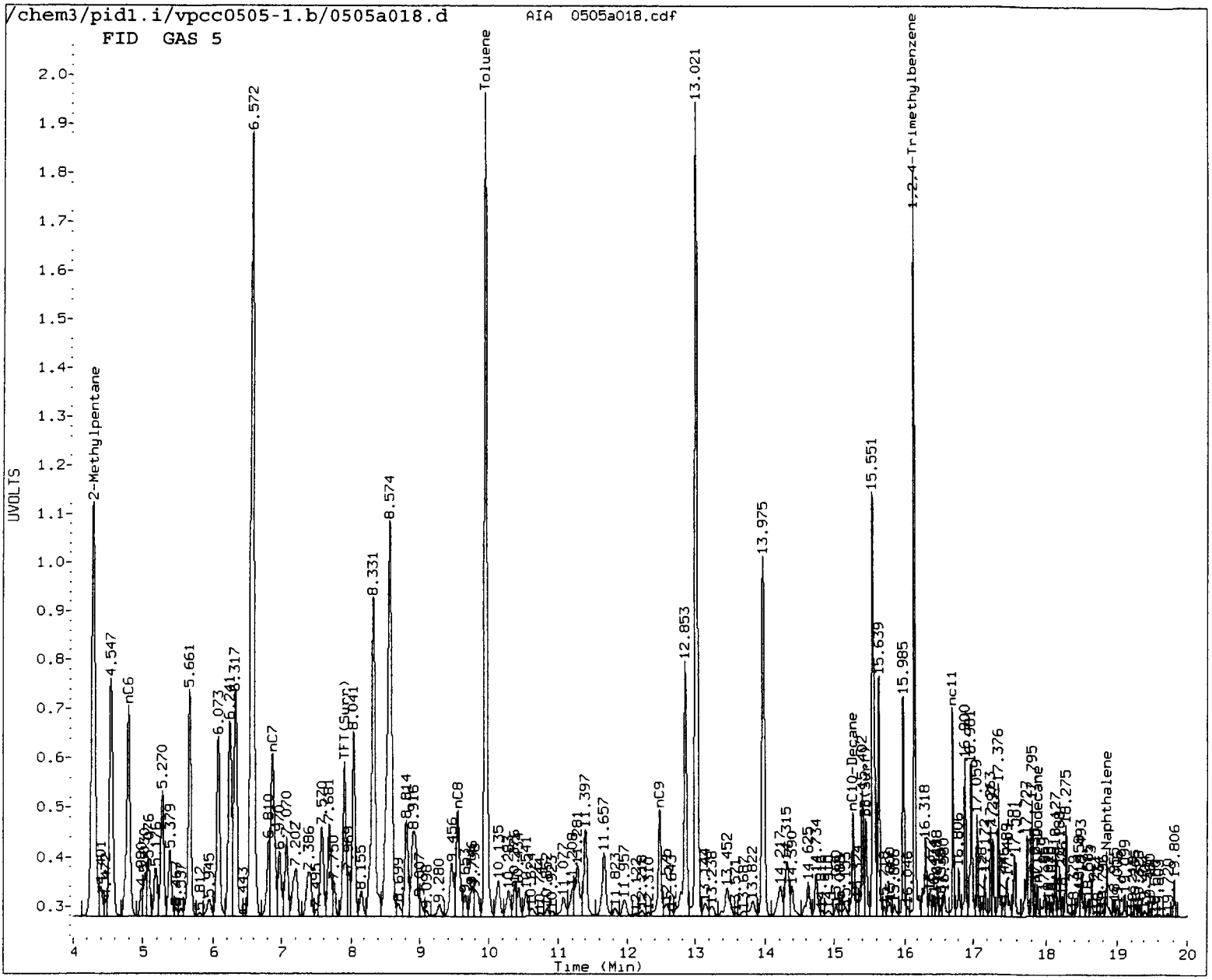
Column phase: RTX 502-2 FID

Column diameter: 0.18





MH
5/9/11



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a019.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a019.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GAS 20
Client ID:
Injection Date: 05-MAY-2011 18:57
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.897	-0.010	4779	68256	183.1	TFT(Surr)
15.450	0.002	1831	14140	97.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	6450142	20.188 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	13434654	20.599 M
AK101 nC6-nC10	(4.67 to 15.16)	527526	11032097	20.913 M
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	6800775	19.997 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.897	-0.007	10042	179.4	TFT(Surr)
15.449	0.001	14719	123.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.070	0.004	24431	65.65	Benzene
9.963	0.013	242571	713.38	Toluene
12.860	0.004	64158	220.70	Ethylbenzene
13.040	0.018	239180	741.67	M/P-Xylene
13.984	0.010	91766	363.73	O-Xylene
4.545	0.006	4433	38.44	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a019.d

Date : 05-MAY-2011 18:57

Client ID:

Sample Info: GAS 20

Instrument: pid1.i

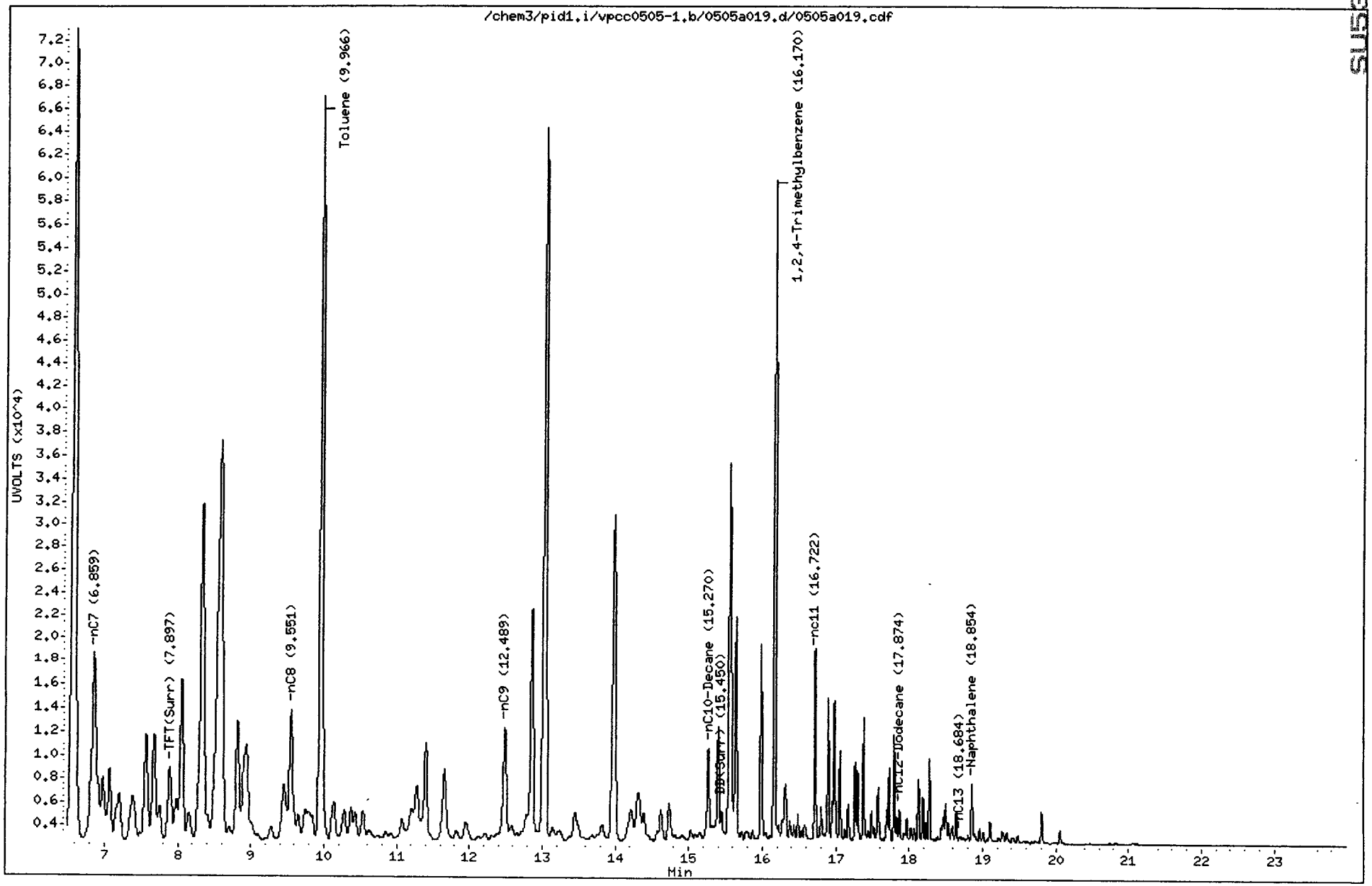
Operator: MH

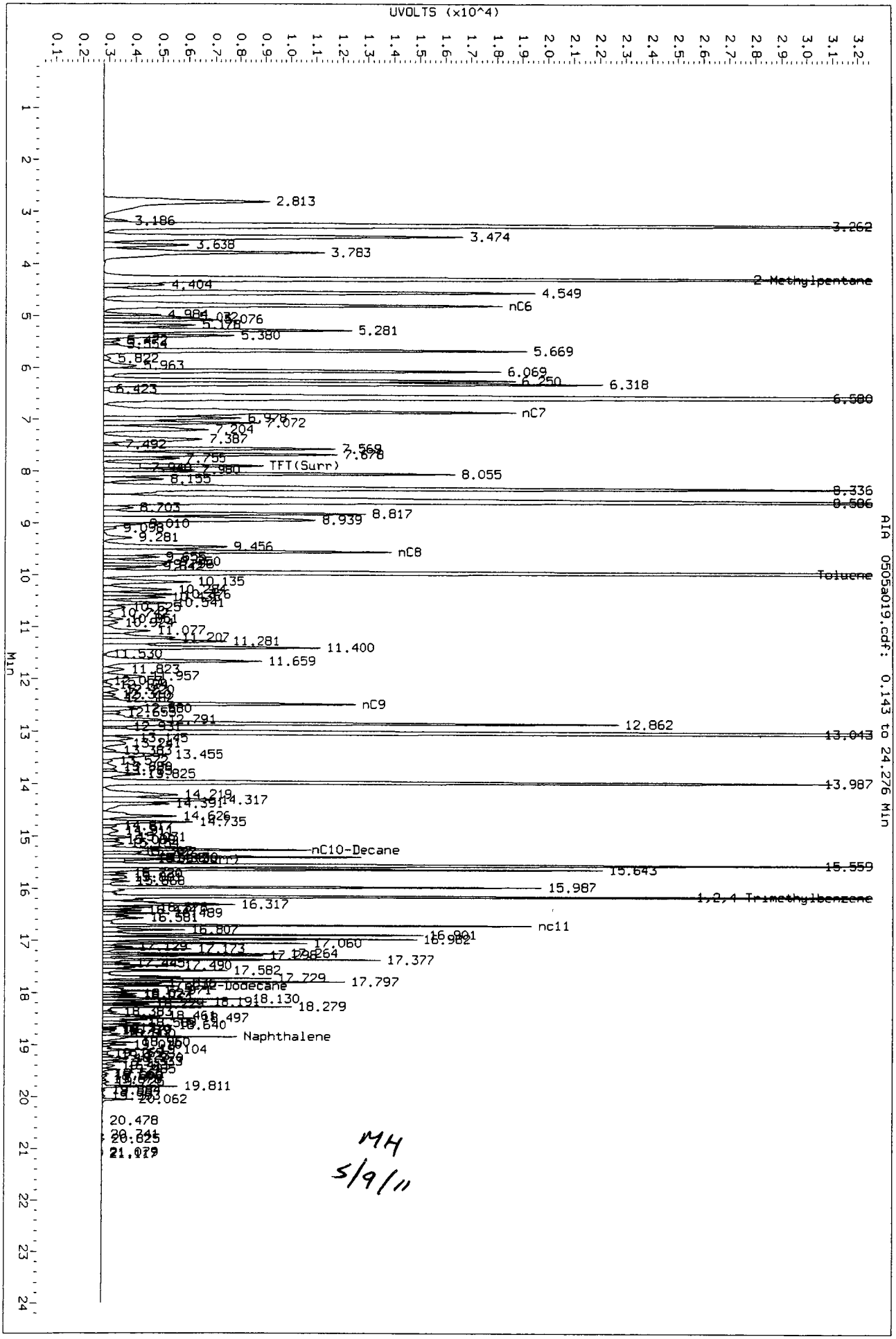
Column phase: RTX 502-2 FID

Column diameter: 0.18

3687

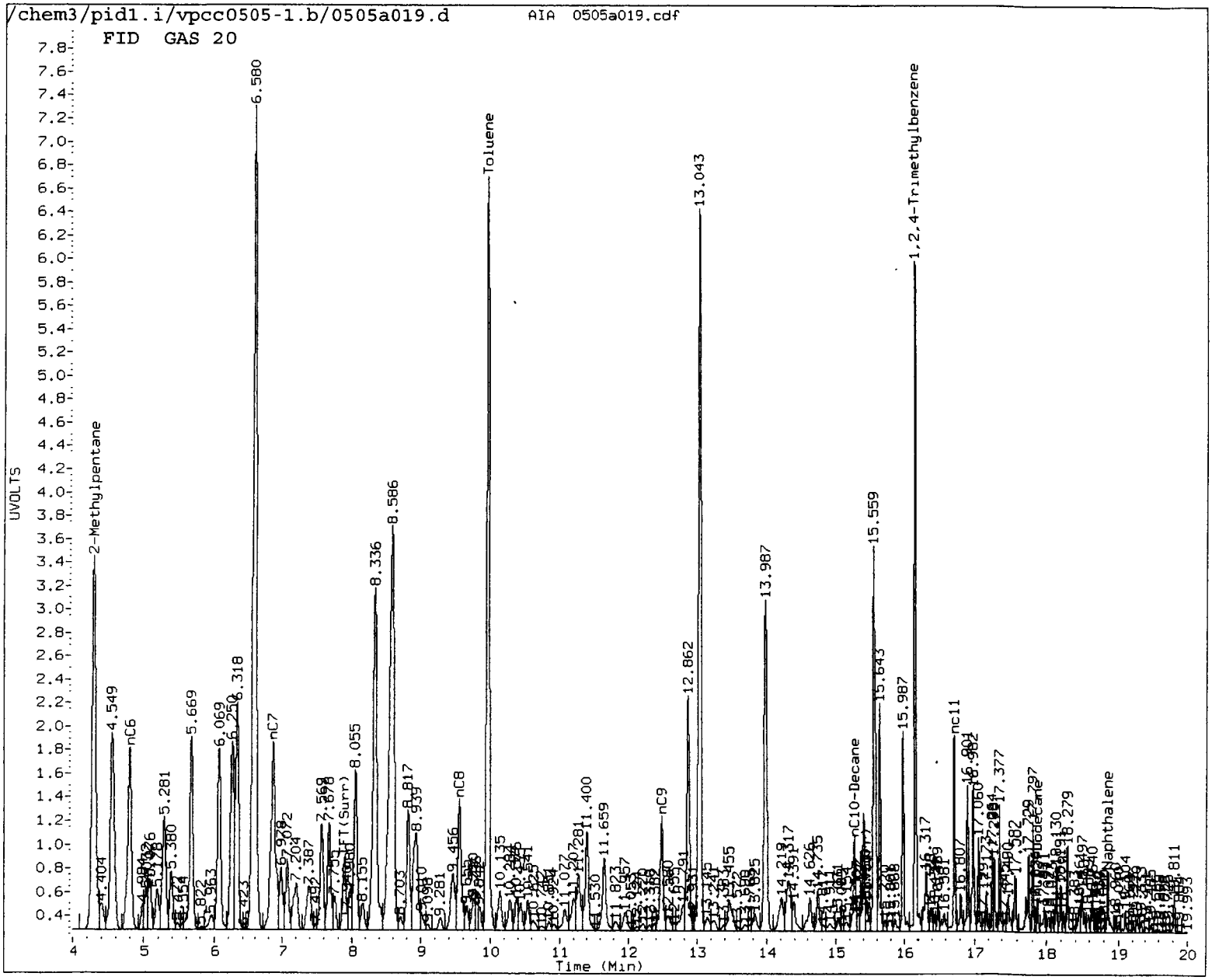
SUS3:01166





Data File: /chem3/pid1.i/vpcc0505-1.b/0505a019.d/0505a019.cdf
Injection Date: 05-MAY-2011 18:57
Instrument: pid1.i
Client Sample ID:

MH
5/9/11



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MK 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a021.d
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a021.d
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GAS ICV
Client ID:
Injection Date: 05-MAY-2011 19:56
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	2398	33961	91.9	TFT(Surr)
15.449	0.001	1831	15736	97.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.96)	319505	93767	0.293 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	174494	0.268 M
AK101 nC6-nC10	(4.67 to 15.16)	527526	137910	0.261 M
NWTPHG Tol-Nap	(9.85 to 18.98)	340084	103475	0.304 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	5077	90.7	TFT(Surr)
15.449	0.001	11458	96.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.055	-0.011	358	0.96	Benzene
9.948	-0.002	3166	9.31	Toluene
12.851	-0.005	794	2.73	Ethylbenzene
13.014	-0.008	3148	9.76	M/P-Xylene
13.971	-0.004	1138	4.51	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a021.d
Date : 05-MAY-2011 19:56
Client ID:
Sample Info: GAS ICV

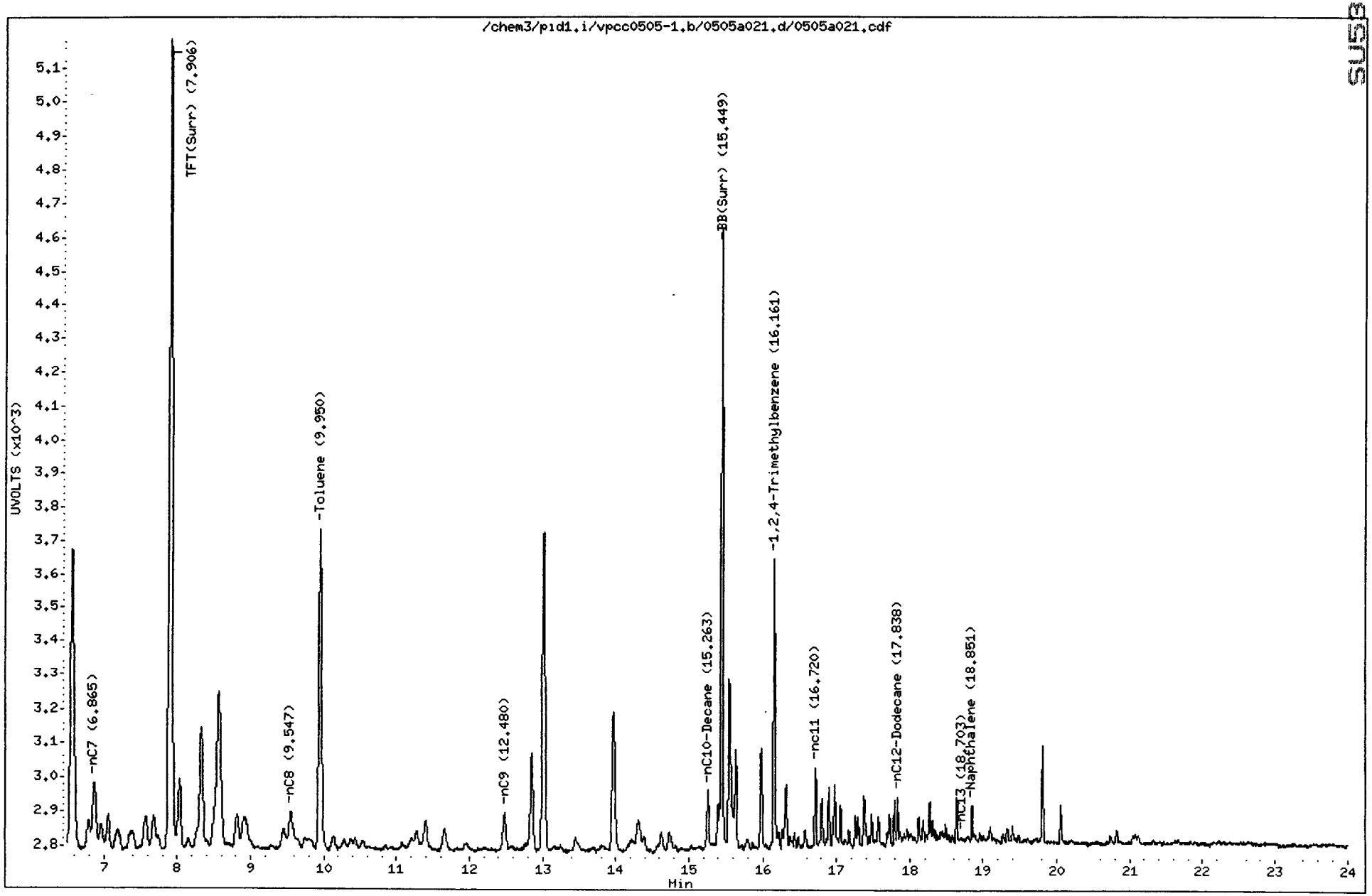
Instrument: pid1.i

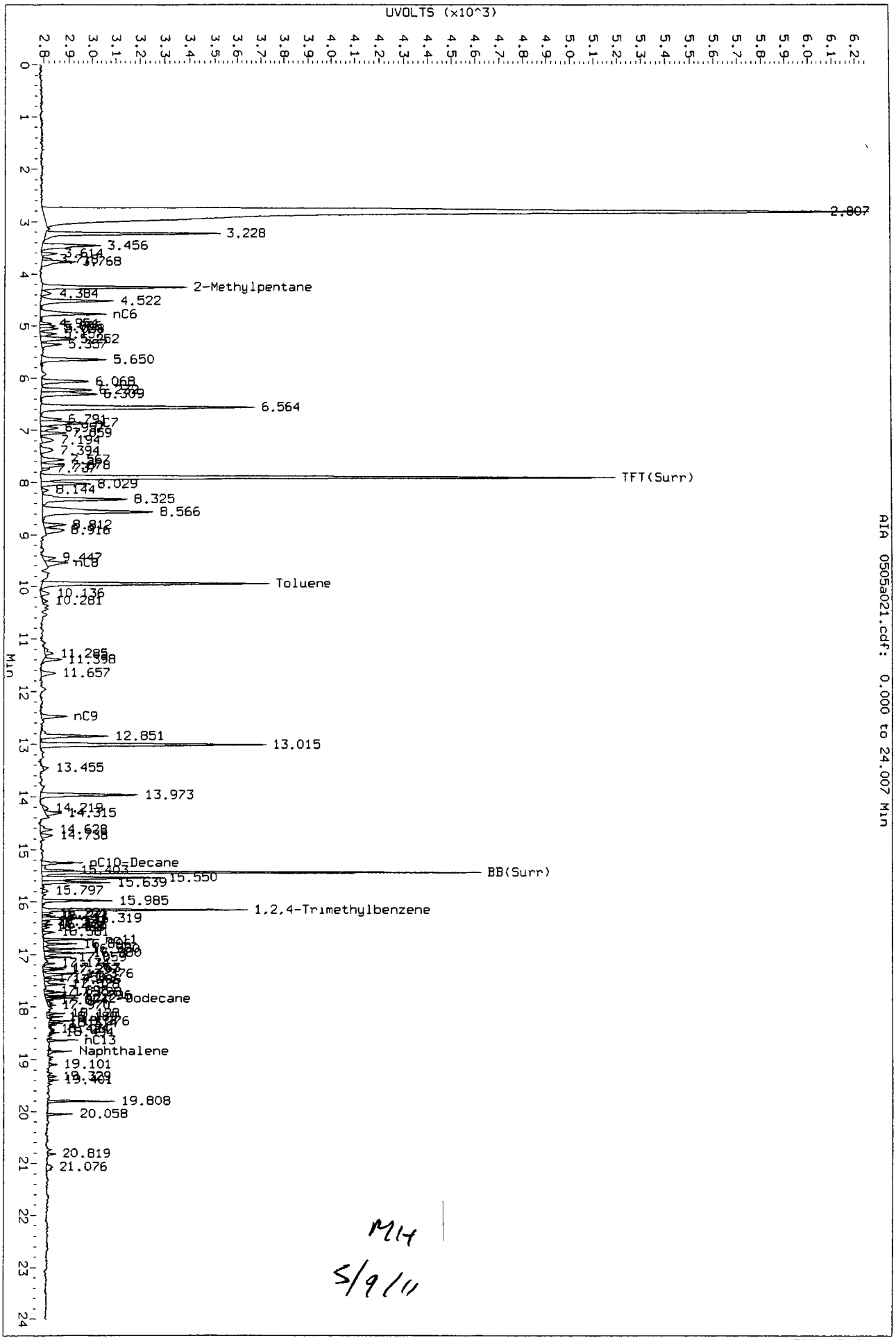
Operator: MH
Column diameter: 0.18

Column phase: RTX 502-2 FID

SUSS : 01179 3691

/chem3/pid1.i/vpcc0505-1.b/0505a021.d/0505a021.cdf

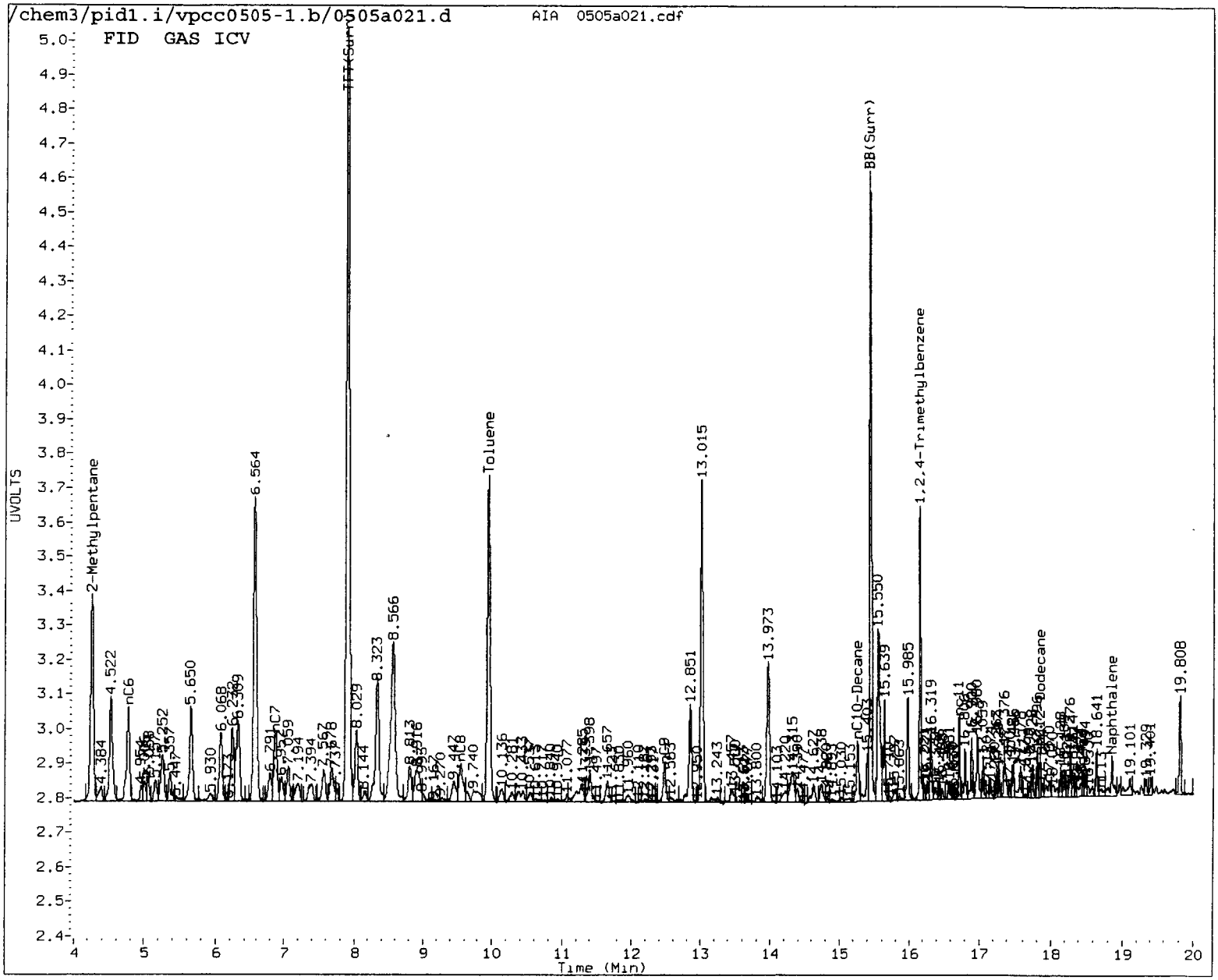




Data File: /chem3/pid1.i/vpcc0505-1.b/0505a021.d/0505a021.cdf
Injection Date: 05-MAY-2011 19:56
Instrument: pid1.i
Client Sample ID:

AIA 0505a021.cdf: 0.000 to 24.007 Min

MH
5/9/11



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0505-1.b/FID.m
Batch File: /chem3/pid1.i/vpcc0505-1.b
Inst ID: pid1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	0505a014	0505a015	0505a016	0505a017	0505a018	0505a019
INJ.DATE:	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011
INJ.TIME:	16:31	17:00	17:30	17:59	18:28	18:57

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 NWTPHG	+++++	+++++	+++++	+++++	+++++	+++++	0.492	0.422-0.562	+++++	+++++
	20 WAGAS	+++++	+++++	+++++	+++++	+++++	+++++	0.937	0.867-1.007	+++++	+++++
	19 AK101	+++++	+++++	+++++	+++++	+++++	+++++	1.251	1.181-1.321	+++++	+++++
	21 8015GAS	+++++	+++++	+++++	+++++	+++++	+++++	1.539	1.469-1.609	+++++	+++++
	1 2-Methylpentane	4.260	4.258	4.268	4.278	4.284	4.288	4.268	4.198-4.338	4.273	0.012
	2 nC6	4.770	4.772	4.777	4.783	4.793	4.800	4.774	4.704-4.844	4.782	0.012
	3 nC7	6.870	6.865	6.866	6.863	6.863	6.859	6.859	6.789-6.929	6.864	0.003
$	4 TFT(Surr)	7.907	7.907	7.906	7.905	7.904	7.897	7.906	7.836-7.976	7.904	0.004
	5 nC8	9.548	9.545	9.546	9.545	9.546	9.551	9.543	9.473-9.613	9.547	0.002
	6 Toluene	9.951	9.949	9.950	9.951	9.953	9.966	9.952	9.882-10.022	9.953	0.006
	7 nC9	12.480	12.479	12.480	12.479	12.481	12.489	12.478	12.408-12.548	12.481	0.004
$	22 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	16.027	15.957-16.097	+++++	+++++
	8 nC10-Decane	15.267	15.261	15.263	15.263	15.264	15.270	15.260	15.190-15.330	15.265	0.003
$	9 BB(Surr)	15.450	15.449	15.449	15.449	15.449	15.450	15.448	15.378-15.518	15.449	0.000
	10 1,2,4-Trimethylbenzene	16.162	16.161	16.161	16.161	16.163	16.170	16.159	16.089-16.229	16.163	0.004
	11 nc11	16.757	16.720	16.721	16.720	16.721	16.722	16.758	16.688-16.828	16.727	0.015
	12 nC12-Dodecane	17.870	17.872	17.874	17.872	17.872	17.874	17.856	17.786-17.926	17.872	0.001

Reviewer 1 MH Date: 5/9/11
Reviewer 2 _____ Date: 5/9/11

3694

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Batch File: /chem3/pid1.i/vpcc0505-2.b
Inst ID: pid1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	0505a014	0505a015	0505a016	0505a017	0505a018	0505a019
INJ.DATE:	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011
INJ.TIME:	16:31	17:00	17:30	17:59	18:28	18:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 MTBE	+++++	+++++	4.528	4.539	4.543	4.545	4.539	4.489-4.589	4.539	0.007
2 Benzene	7.056	7.056	7.063	7.065	7.067	7.070	7.066	7.016-7.116	7.063	0.006
$ 3 TFT(Surr)	7.905	7.905	7.904	7.903	7.904	7.897	7.904	7.854-7.954	7.903	0.003
4 Toluene	9.949	9.948	9.948	9.948	9.951	9.963	9.950	9.900-10.000	9.951	0.006
15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	13.068	13.018-13.118	+++++	+++++
5 Ethylbenzene	12.851	12.850	12.850	12.850	12.852	12.860	12.855	12.805-12.905	12.852	0.004
6 M/P-Xylene	13.014	13.014	13.014	13.016	13.020	13.040	13.022	12.972-13.072	13.020	0.010
7 O-Xylene	13.971	13.971	13.970	13.970	13.973	13.984	13.974	13.944-14.004	13.973	0.006
$ 19 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	16.006	15.976-16.036	+++++	+++++
$ 8 BB(Surr)	15.449	15.449	15.449	15.449	15.449	15.449	15.448	15.398-15.498	15.449	0.000
13 1,3,5 Trimethyl Benzen	+++++	+++++	+++++	+++++	+++++	+++++	16.433	16.403-16.463	+++++	+++++
14 1,2,4 Trimethyl Benzen	+++++	+++++	+++++	+++++	+++++	+++++	16.905	16.875-16.935	+++++	+++++
16 1,3 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	16.863	16.833-16.893	+++++	+++++
17 1,4 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	16.979	16.949-17.009	+++++	+++++
18 1,2 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	17.371	17.341-17.401	+++++	+++++

Reviewer 1 MH Date: 5/9/11
Reviewer 2 Date:

3695

BJ53:01174

TPHG/BETX Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: SU53, SU73, SU74

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: ST98-SU53-SU73-SU74 Client ID: Floyd Snider

ARI SOP: (404S(Gas)) (410S(BTEX)) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): NWTPHG/BETX

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 (PID-1) PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 5/5/11 Analysis Start Date: 5/6/11

pH ≤ 2.0	(YES) / NO / NA	Method Blank In Control?	(YES) / NO
BFB Tune Meets Criteria?	YES / NO / (NA)	LCS / LCSD Recovery In Control?	(YES) / NO
Internal Standard Meets Criteria?	YES / NO / (NA)	Surrogate Recovery In Control?	(YES) / NO
ICal acceptable?	(YES) / NO	CCal acceptable?	(YES) / NO
Q flag applied?	YES / NO / (NA)	Q flag applied?	YES / NO / (NA)
Manual Integrations for ICal?	(YES) / NO	Manual Integrations for Samples?	(Yes) / NO
Special Analysis Criteria Met?	YES / NO / (NA)		

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: [signature] **Date:** 5/9/11

Reviewer: [signature] **Date:** 5/5/11

Analytical Resources Inc.: Organics Instrument Log

PID-1 Serial No.: 2750A-17141

Date: 5/6/11 Analysis: NWTPH6/BETX Analyst: MH

GC Program: BETX Column No: 821726 Column Type: RTX502-2

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 5/5/11

IS/SS	Ical/Ccal	LCS/ICV
VW683-2	VW666-1	VW687-3
	VW683-3	
	VW687-3	

	Time	Filename	LabID	ClientID	Vial#	pH	DF
1	0544	0506a001.d	RINSE				1
2	0613	0506a002.d	RT+BCAL 1				1
3	0642	0506a003.d	GCAL 1				1
4	0711	0506a004.d	LCS0506				1
5	0741	0506a005.d	LCSD0506				1
6	0810	0506a006.d	MB0506				1
7	0901	0506a007.d	ST98A	MW02-042611			1
8	0930	0506a008.d	ST98B	MW03-042611			1
9	0959	0506a009.d	ST98C	MW13-042611			1
10	1028	0506a010.d	ST98D	MW06-042611			1
11	1057	0506a011.d	ST98DMS	MW06-042611 MS			1
12	1126	0506a012.d	ST98DMSD	MW06-042611 MSD			1
13	1155	0506a013.d	SU53A	MW5042811			1
14	1224	0506a014.d	RINSE				1
15	1253	0506a015.d	BCAL 2				1
16	1322	0506a016.d	GCAL 2				1
17	1351	0506a017.d	SU53B	MW15042811			1
18	1420	0506a018.d	SU53C	MW4042811			1
19	1449	0506a019.d	SU53D	MW17042811			1
20	1518	0506a020.d	SU53E	MW14042811			1
21	1547	0506a021.d	SU53F	MW16042811			1
22	1616	0506a022.d	SU73A	MW-01-042911			1
23	1645	0506a023.d	SU73B	MW-01-042911-D			1
24	1715	0506a024.d	SU74A	B312-042911			1
25	1744	0506a025.d	SU74B	B310-042911			1
26	1813	0506a026.d	SU74C	B311-042911			1
27	1842	0506a027.d	RINSE				1
28	1911	0506a028.d	BCAL 3				1
29	1941	0506a029.d	GCAL 3				1

MH
5/9/11

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a002.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a002.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: RT+BCAL 1
Client ID:
Injection Date: 06-MAY-2011 06:13
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	2577	35118	98.7	TFT(Surr)
15.450	0.000	1893	15639	100.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	427454	1.338
8015B 2MP-TMB	(4.17 to 16.26)	652210	480142	0.736
AK101 nC6-nC10	(4.68 to 15.16)	527526	341926	0.648
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	478734	1.408

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	5480	97.9	TFT(Surr)
15.449	0.000	11768	99.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.063	0.000	8561	23.00	Benzene
9.948	0.000	8045	23.66	Toluene
12.851	0.000	7245	24.92	Ethylbenzene
13.013	0.000	15581	48.31	M/P-Xylene
13.971	0.000	6239	24.73	O-Xylene
4.539	0.000	2668	23.14	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a002.d

Page 1

Date : 06-MAY-2011 06:13

Client ID:

Instrument: pid1.i

Sample Info: RT+BCAL 1

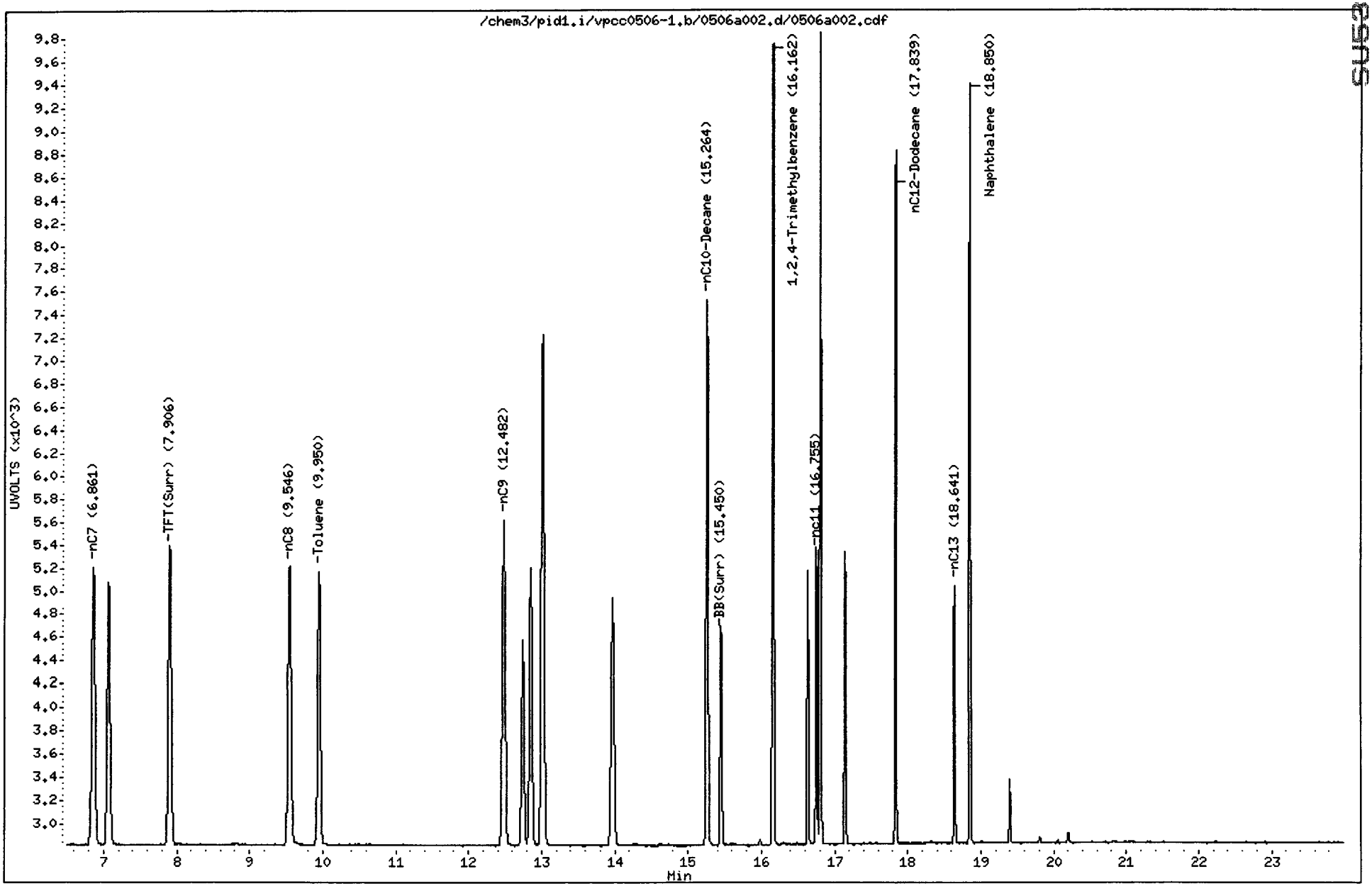
Operator: MH

Column phase: RTX 502-2 FID

Column diameter: 0.18

3700

SUSQ:01179



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a002.d

Page 1

Date : 06-MAY-2011 06:13

Client ID:

Instrument: pid1.i

Sample Info: RT+BCAL 1

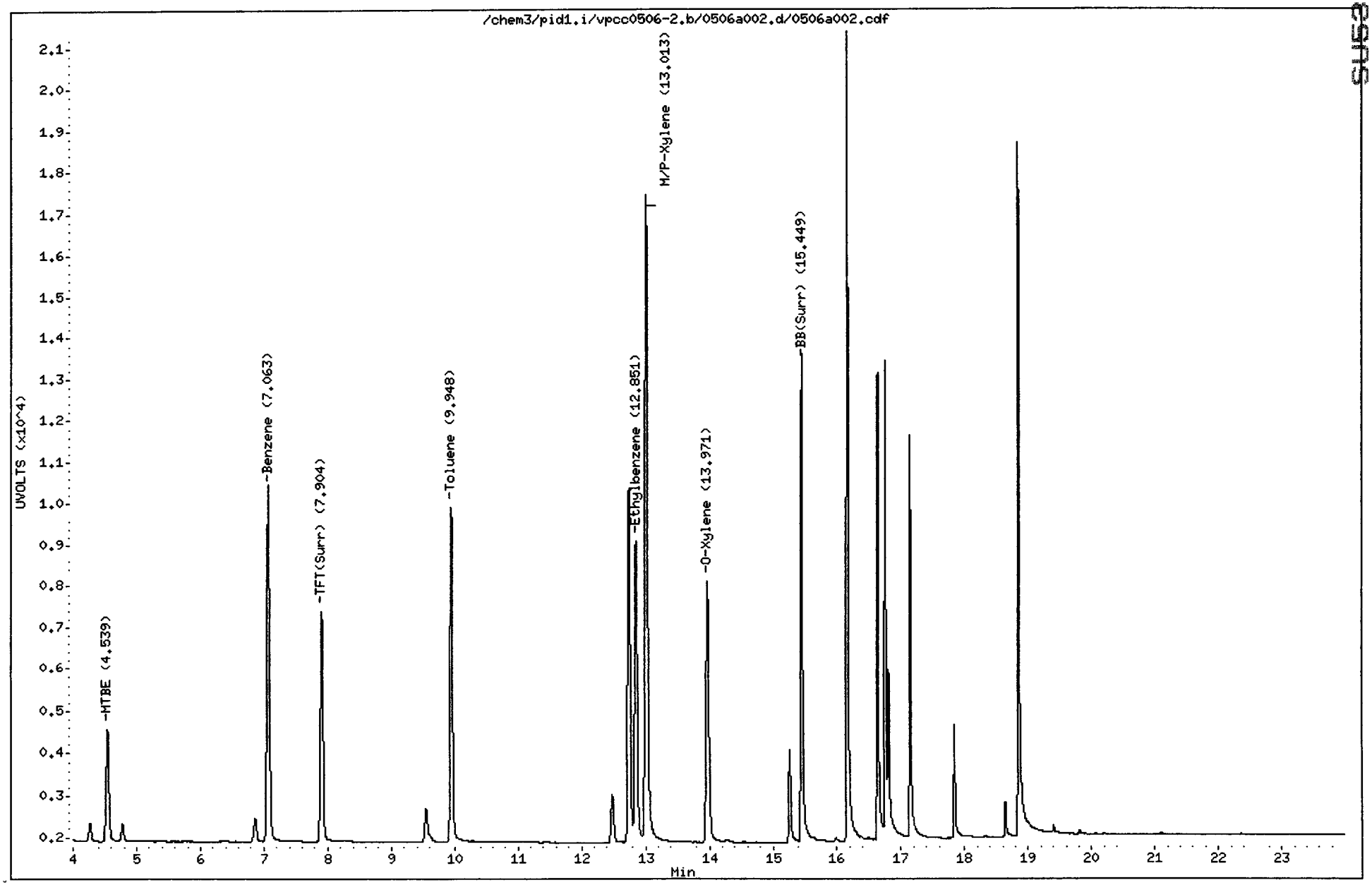
Operator: MH

Column phase: RTX 502-2 PID

Column diameter: 0.18

3701

SUS2 : 01180



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a003.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a003.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GCAL 1
Client ID:
Injection Date: 06-MAY-2011 06:42
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	2859	49638	109.5	TFT(Surr)
15.449	-0.001	1906	17630	101.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	834602	2.612 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	1687232	2.587 M
AK101 nC6-nC10	(4.68 to 15.16)	527526	1354554	2.568 M
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	885484	2.604 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.000	5784	103.3	TFT(Surr)
15.449	-0.001	11868	99.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.067	0.003	3015	8.10	Benzene
9.949	0.001	30793	90.56	Toluene
12.851	0.000	7880	27.11	Ethylbenzene
13.016	0.003	31565	97.88	M/P-Xylene
13.971	0.000	11257	44.62	O-Xylene
4.541	0.002	619	5.37	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a003.d

Date : 06-MAY-2011 06:42

Client ID:

Sample Info: GCAL 1

Column phase: RTX 502-2 FID

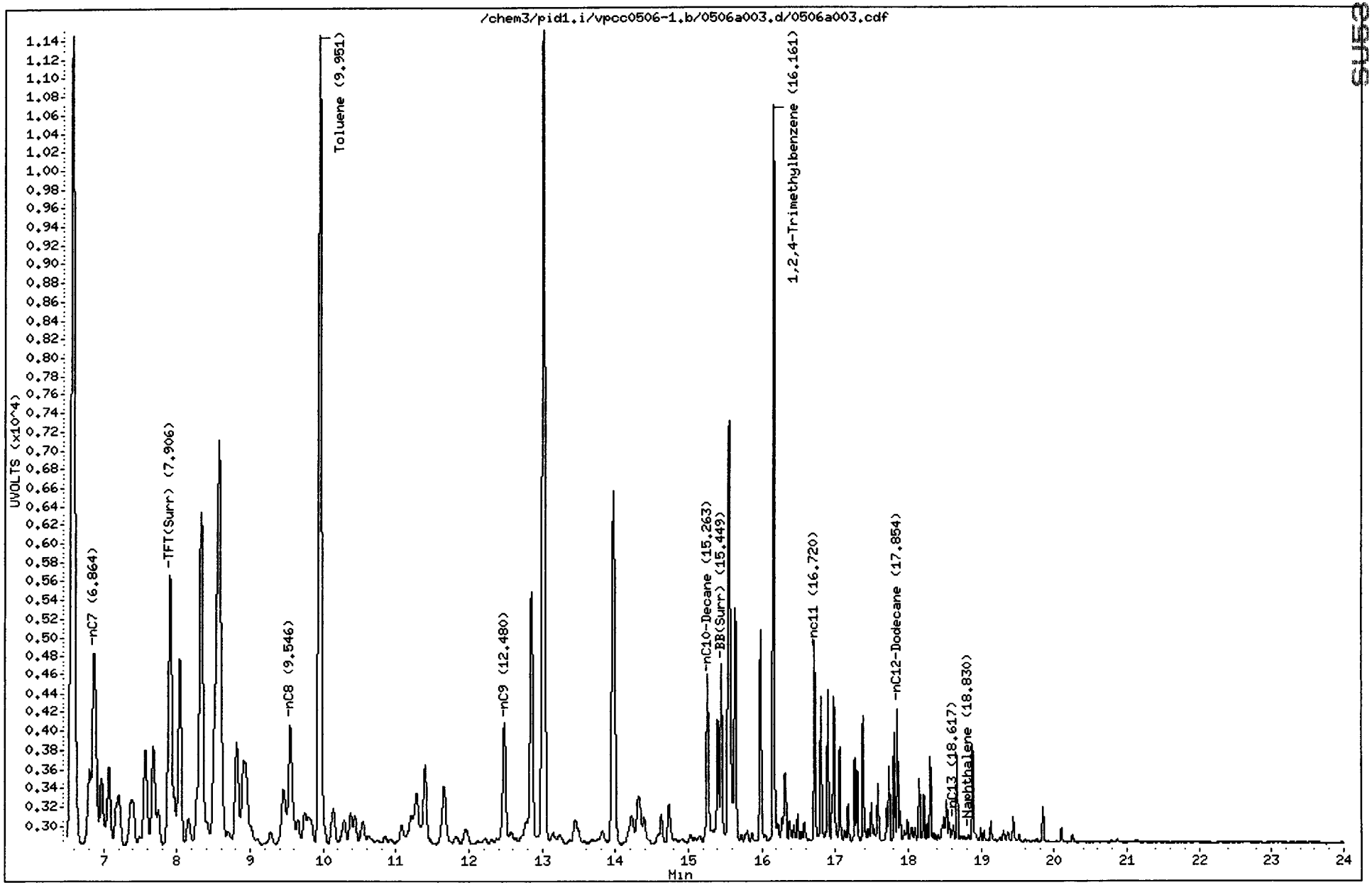
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3703

SJ53 01182



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a003.d

Page 1

Date : 06-MAY-2011 06:42

Client ID:

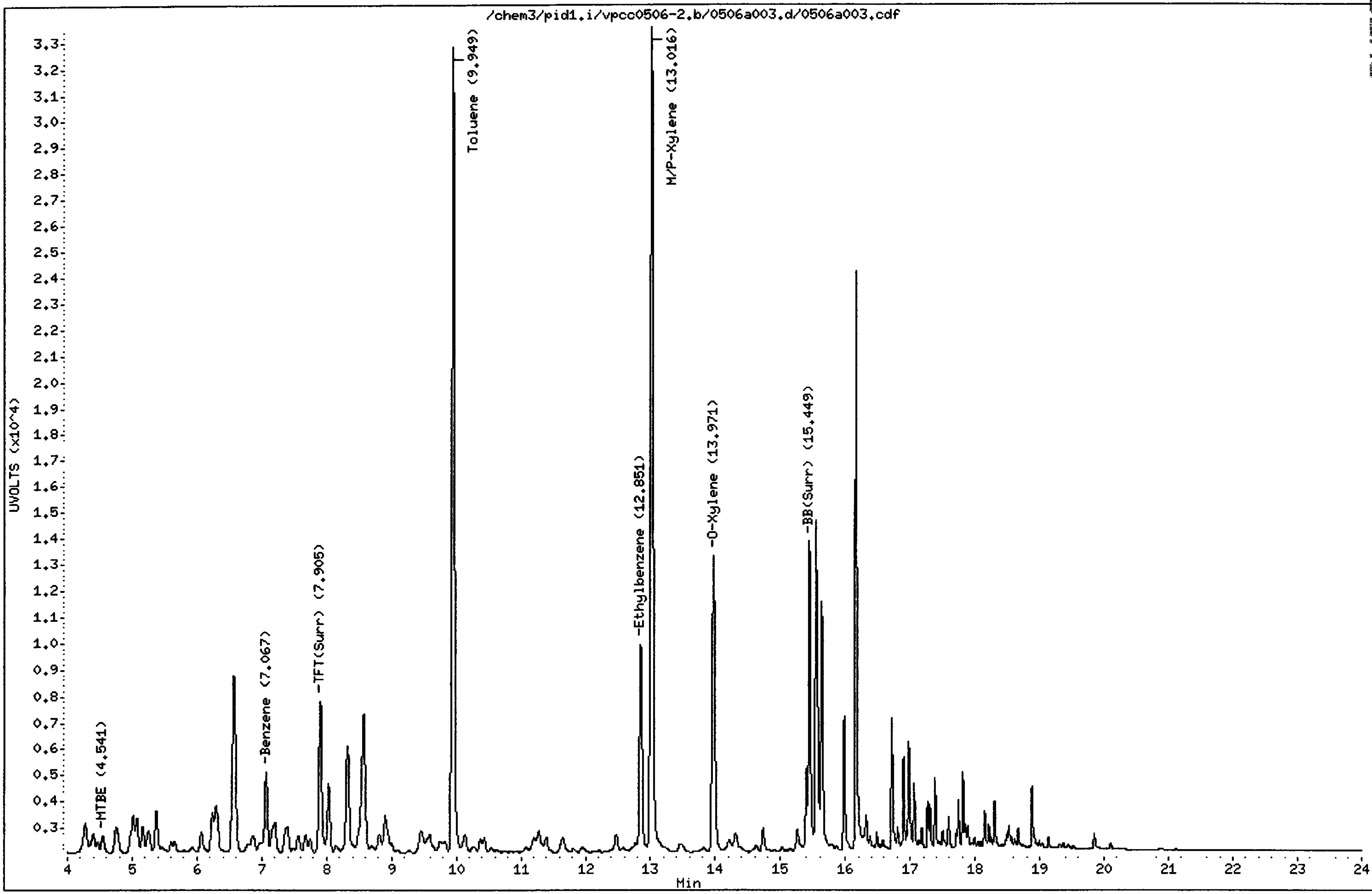
Instrument: pid1.i

Sample Info: GCAL 1

Operator: MH

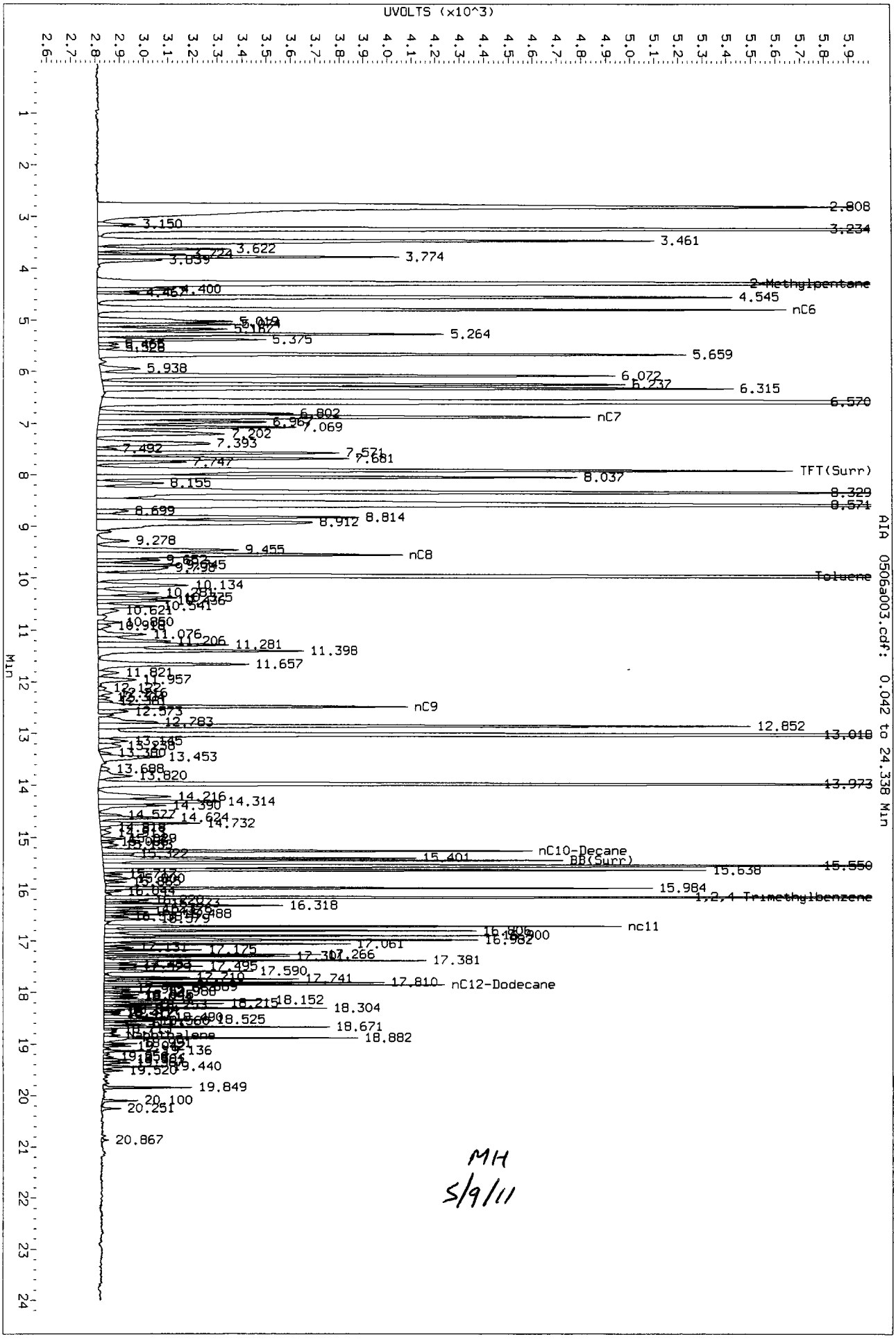
Column phase: RTX 502-2 PID

Column diameter: 0.18



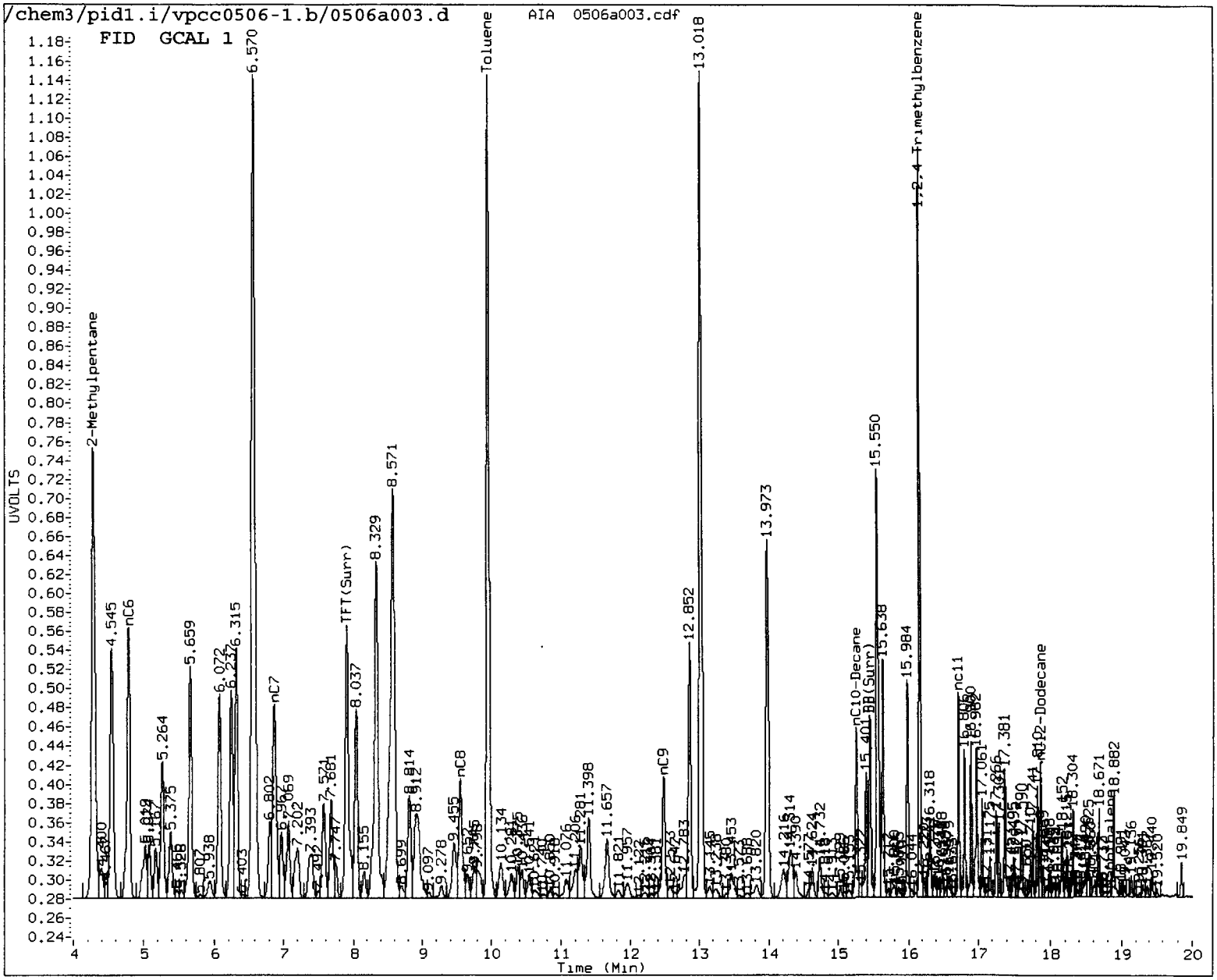
3704

SU53:01183



Data File: /chem3/pid1.i/vpcc0506-1.b/0506a003.d/0506a003.cdf
Injection Date: 06-MAY-2011 06:42
Instrument: pid1.i
Client Sample ID:

MH
5/9/11



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a004.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a004.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: LCS0506
Client ID:
Injection Date: 06-MAY-2011 07:11
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.000	2557	39190	98.0	TFT(Surr)
15.450	0.000	1810	16111	95.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	339244	1.062 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	677626	1.039 M
AK101 nC6-nC10	(4.68 to 15.16)	527526	544860	1.033 M
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	361886	1.064 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5298	94.6	TFT(Surr)
15.449	0.000	11284	94.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.064	0.001	1199	3.22	Benzene
9.948	0.000	11971	35.21	Toluene
12.851	0.000	3030	10.42	Ethylbenzene
13.015	0.002	11964	37.10	M/P-Xylene
13.971	0.000	4279	16.96	O-Xylene
4.530	-0.008	252	2.19	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a004.d

Date : 06-MAY-2011 07:11

Client ID:

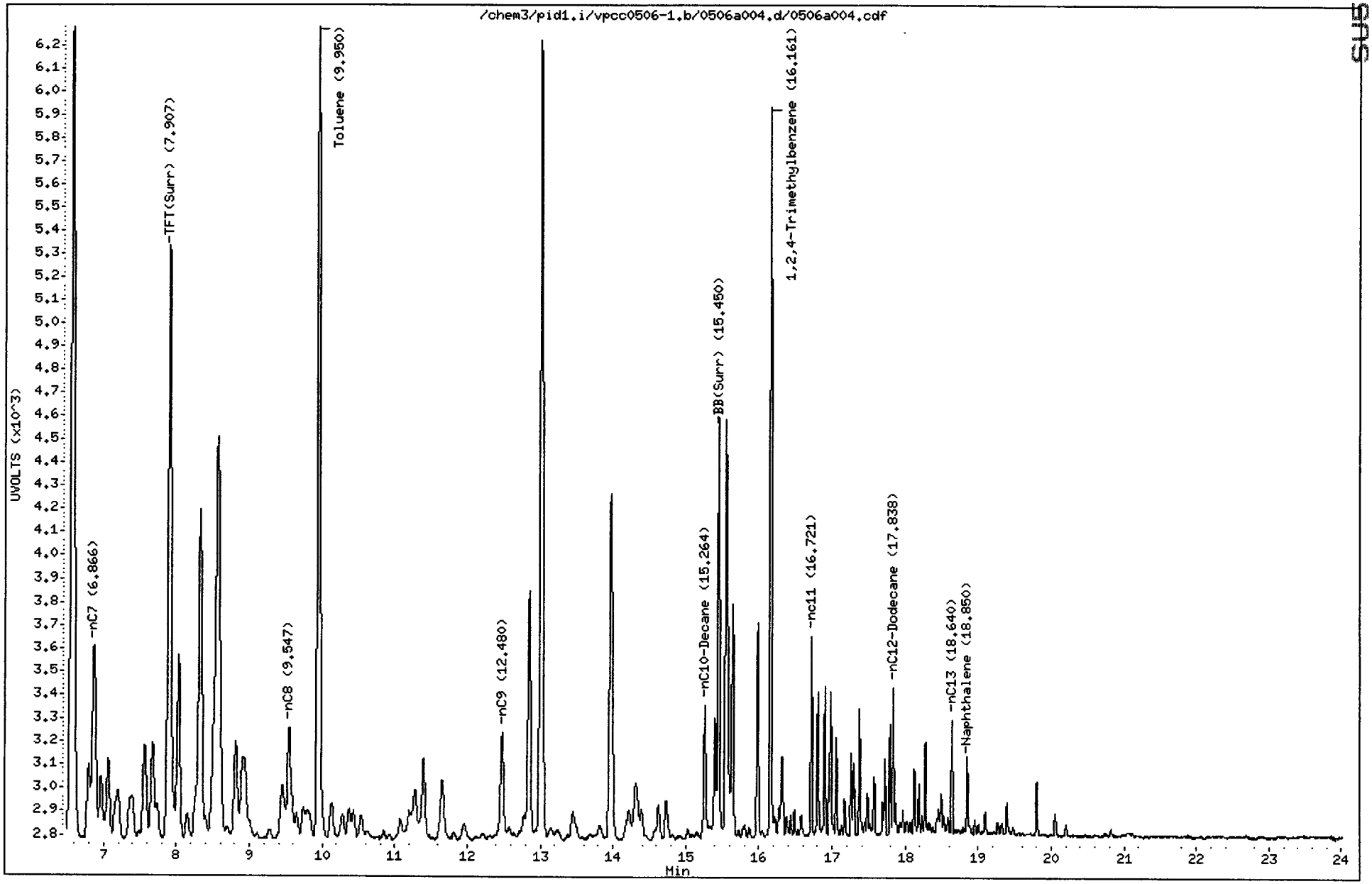
Sample Info: LCS0506

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a004.d

Date : 06-MAY-2011 07:11

Client ID:

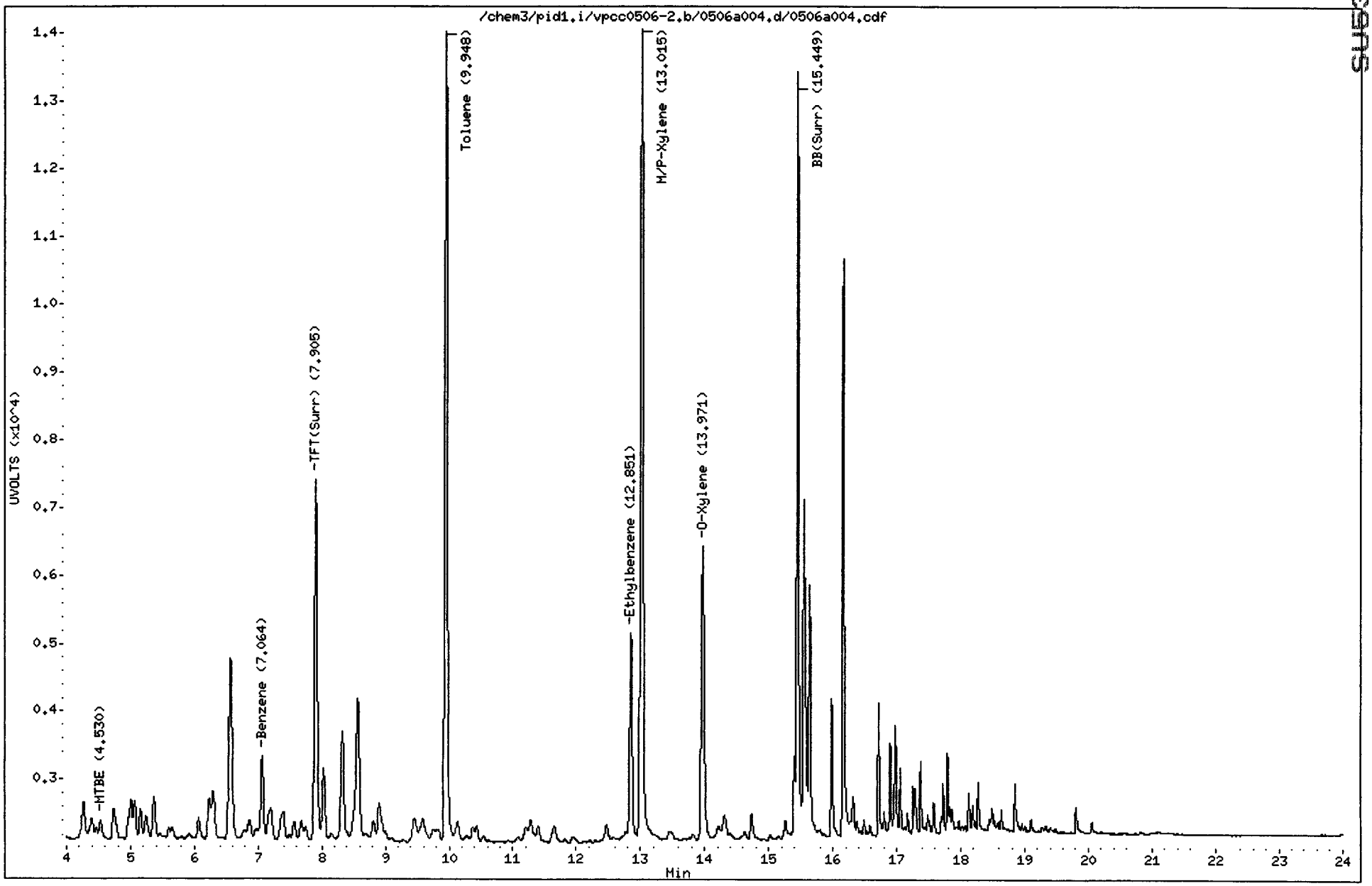
Sample Info: LCS0506

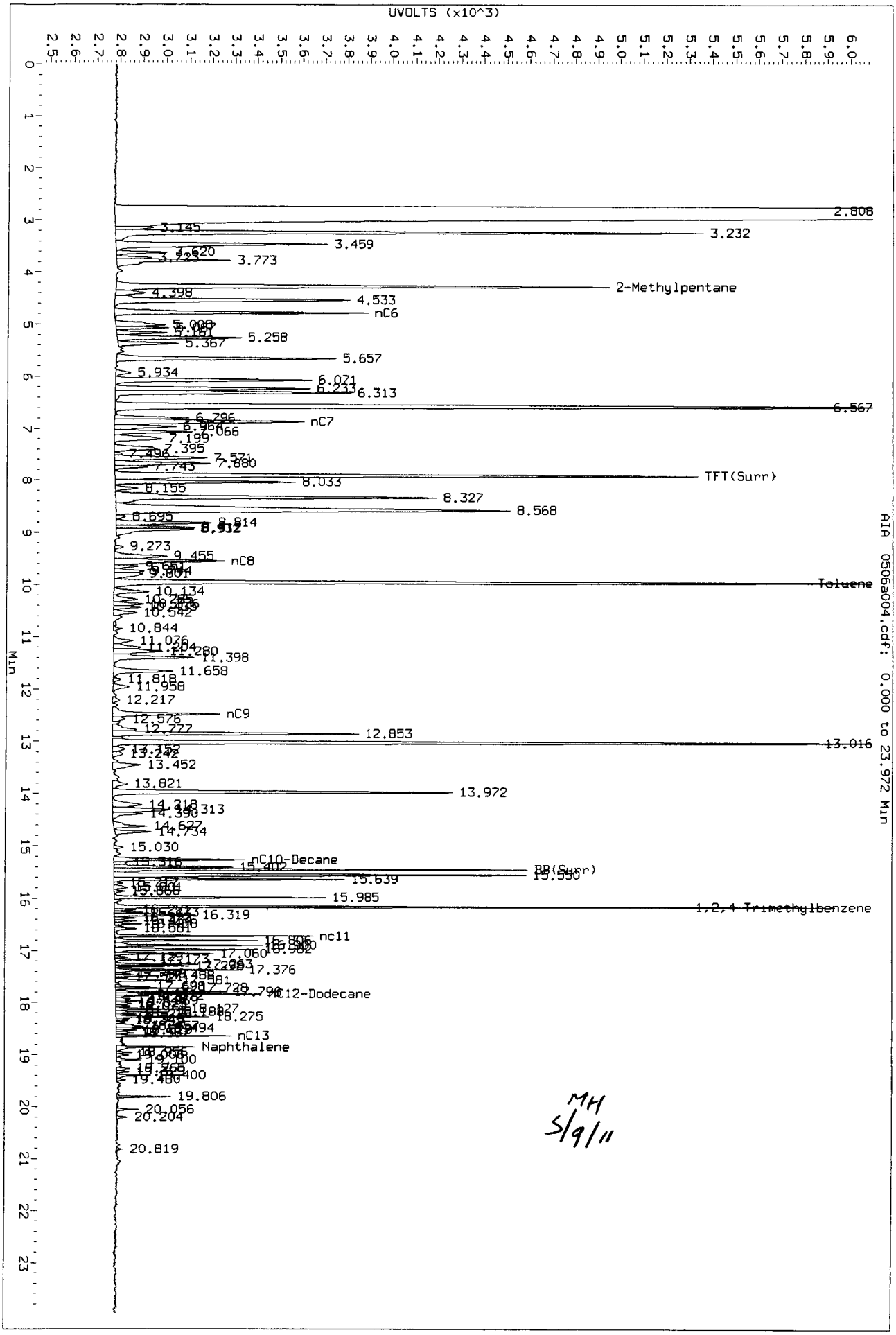
Column phase: RTX 502-2 PID

Instrument: pid1.i

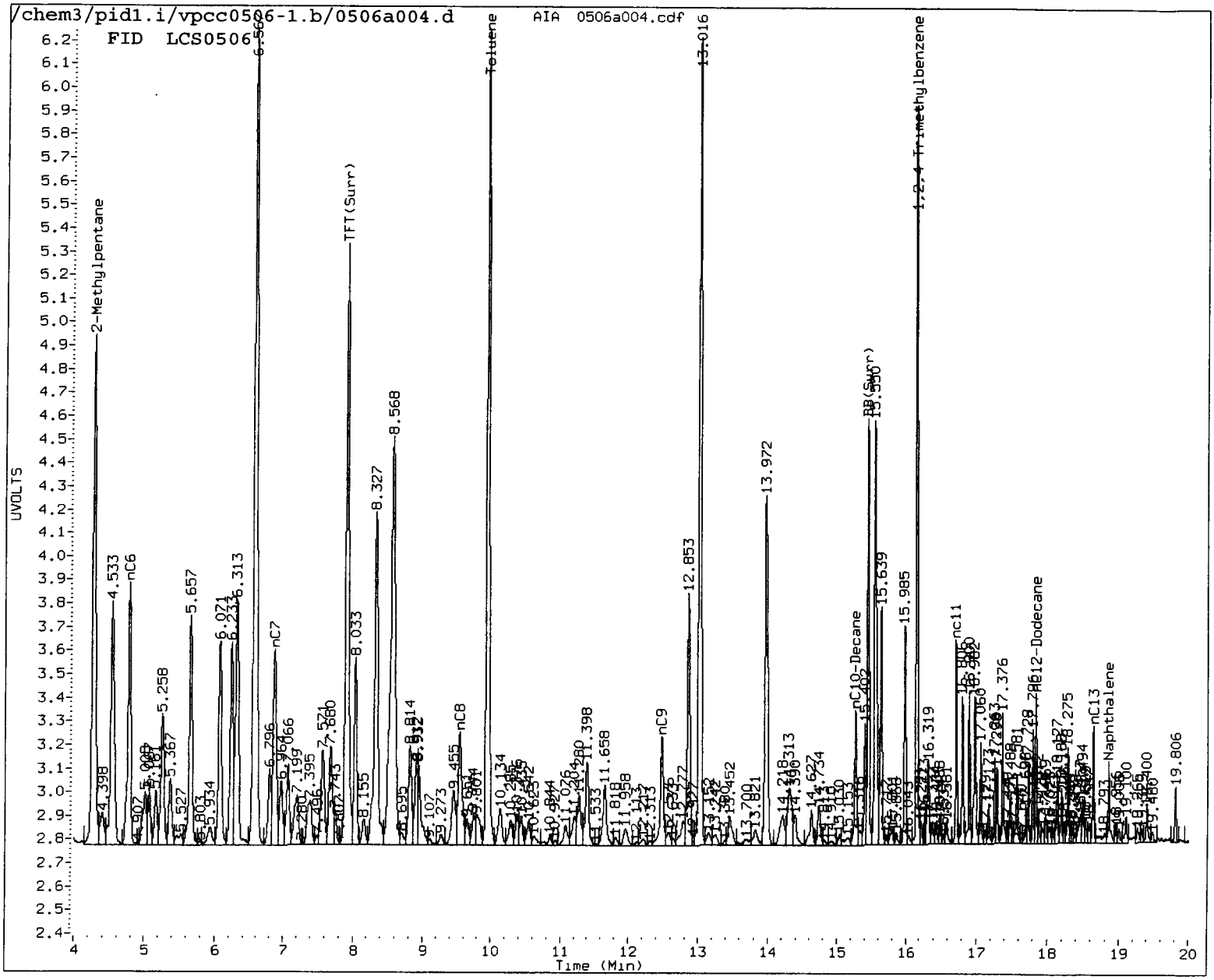
Operator: MH

Column diameter: 0.18




UVOLTS (x10^3)
Min
2.808
3.145
3.232
3.459
3.620
3.773
2-Methylpentane
4.398
4.533
nC6
5.258
5.367
5.657
5.934
6.071
6.313
6.567
nC7
7.199
7.395
7.496
7.660
7.743
TFT(Surr)
8.033
8.155
8.327
8.568
8.695
8.814
8.932
9.273
9.455
nC8
9.601
Toluene
10.134
10.542
10.844
11.026
11.204
11.280
11.398
11.658
11.818
11.958
12.217
nC9
12.576
12.777
12.853
13.016
13.242
13.452
13.821
13.972
14.218
14.313
14.627
14.734
15.030
nC10-Decane
15.318
15.402
BB(Surr)
15.550
15.639
15.985
1,2,4 Trimethylbenzene
16.319
nc11
17.060
17.376
nC12-Dodecane
18.275
nC13
Naphthalene
19.400
19.480
19.806
20.056
20.204
20.819
AIA 0506a004.cdf: 0.000 to 23.972 Min
Data File: /chem3/pid1.i/vpcc0506-1.b/0506a004.d/0506a004.cdf
Injection Date: 06-MAY-2011 07:11
Instrument: pid1.i
Client Sample ID:

MH
5/9/11



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a005.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a005.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: LCSD0506
Client ID:
Injection Date: 06-MAY-2011 07:41
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.002	2587	39532	99.1	TFT(Surr)
15.451	0.001	1834	15953	97.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	313487	0.981 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	645648	0.990 M
AK101 nC6-nC10	(4.68 to 15.16)	527526	522016	0.990 M
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	334184	0.983 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.002	5365	95.8	TFT(Surr)
15.450	0.001	11390	95.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.065	0.001	1138	3.06	Benzene
9.949	0.001	11424	33.60	Toluene
12.852	0.001	2905	9.99	Ethylbenzene
13.016	0.003	11479	35.59	M/P-Xylene
13.972	0.001	4132	16.38	O-Xylene
4.530	-0.009	237	2.06	MTBE

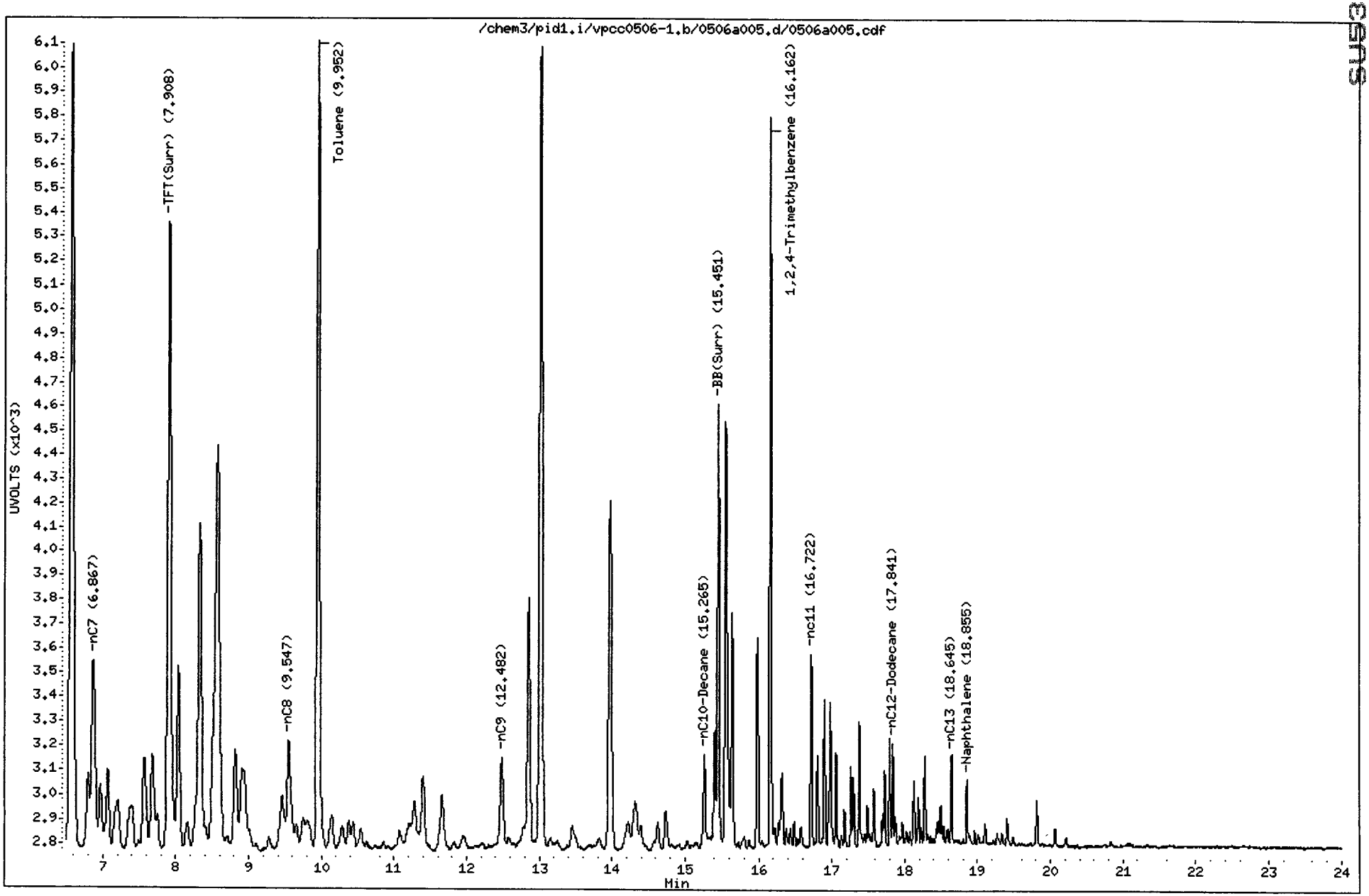
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a005.d
Date : 06-MAY-2011 07:41
Client ID:
Sample Info: LCSD0506

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a005.d

Date : 06-MAY-2011 07:41

Client ID:

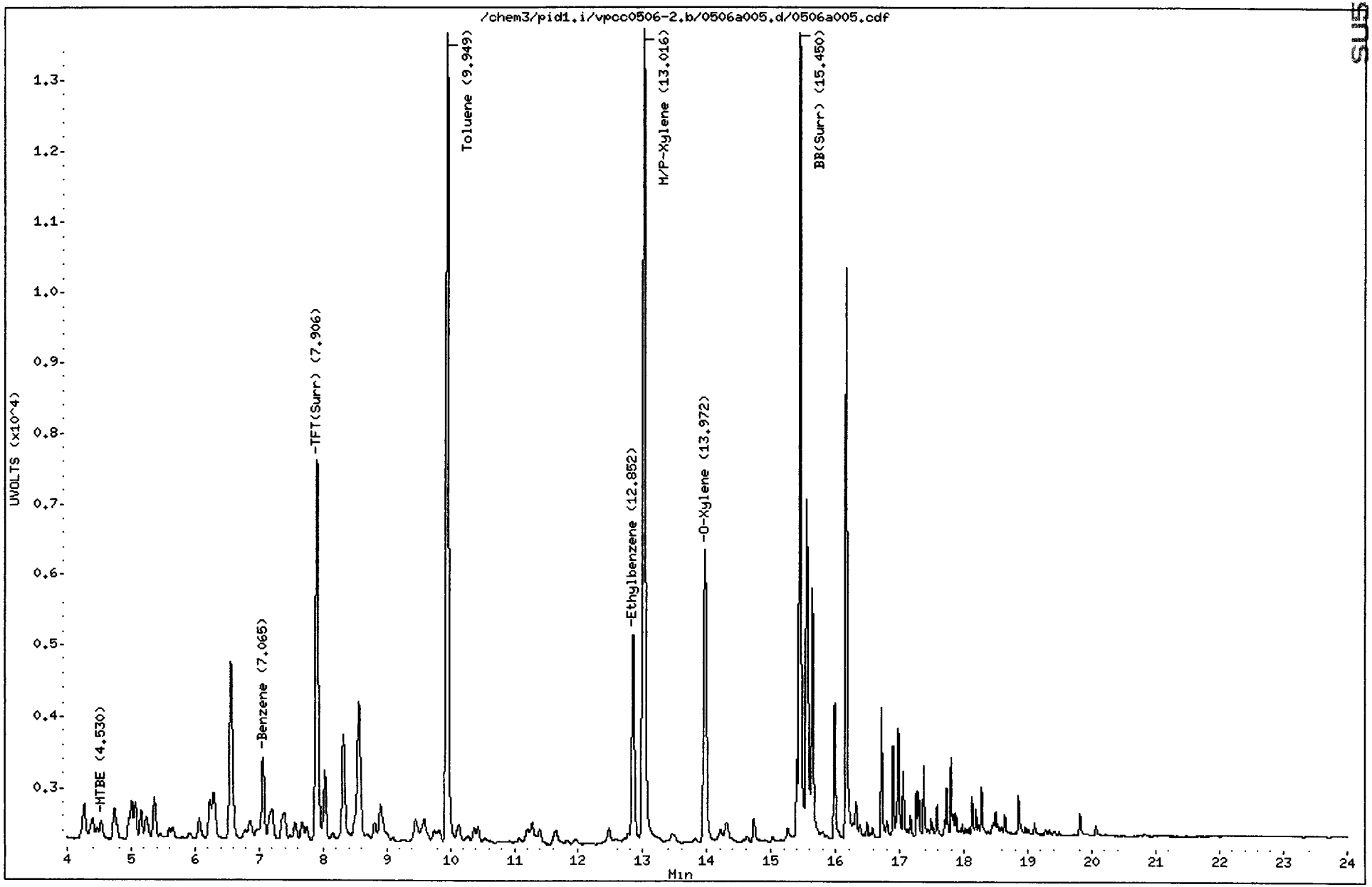
Sample Info: LCSD0506

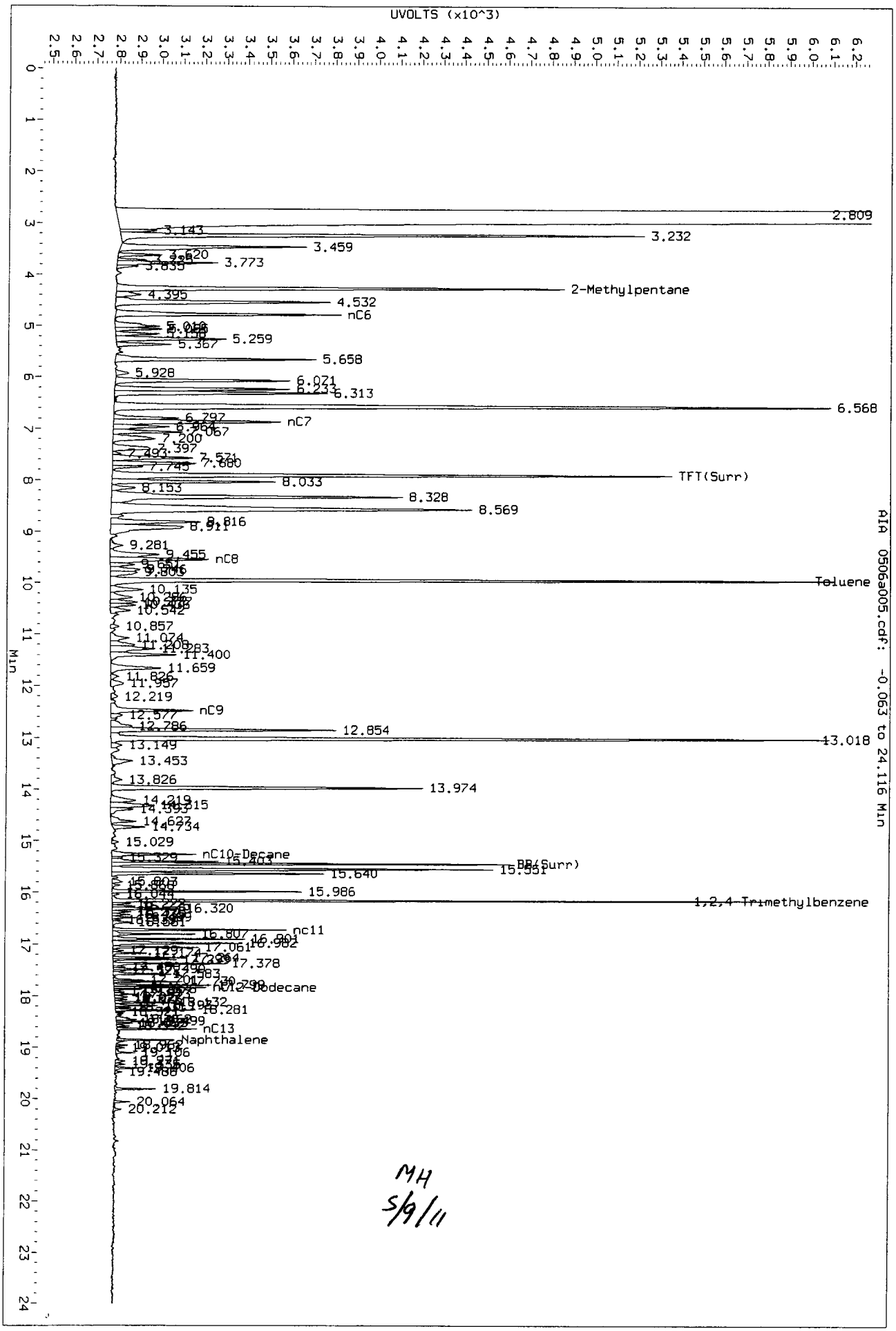
Column phase: RTX 502-2 PID

Instrument: pid1.i

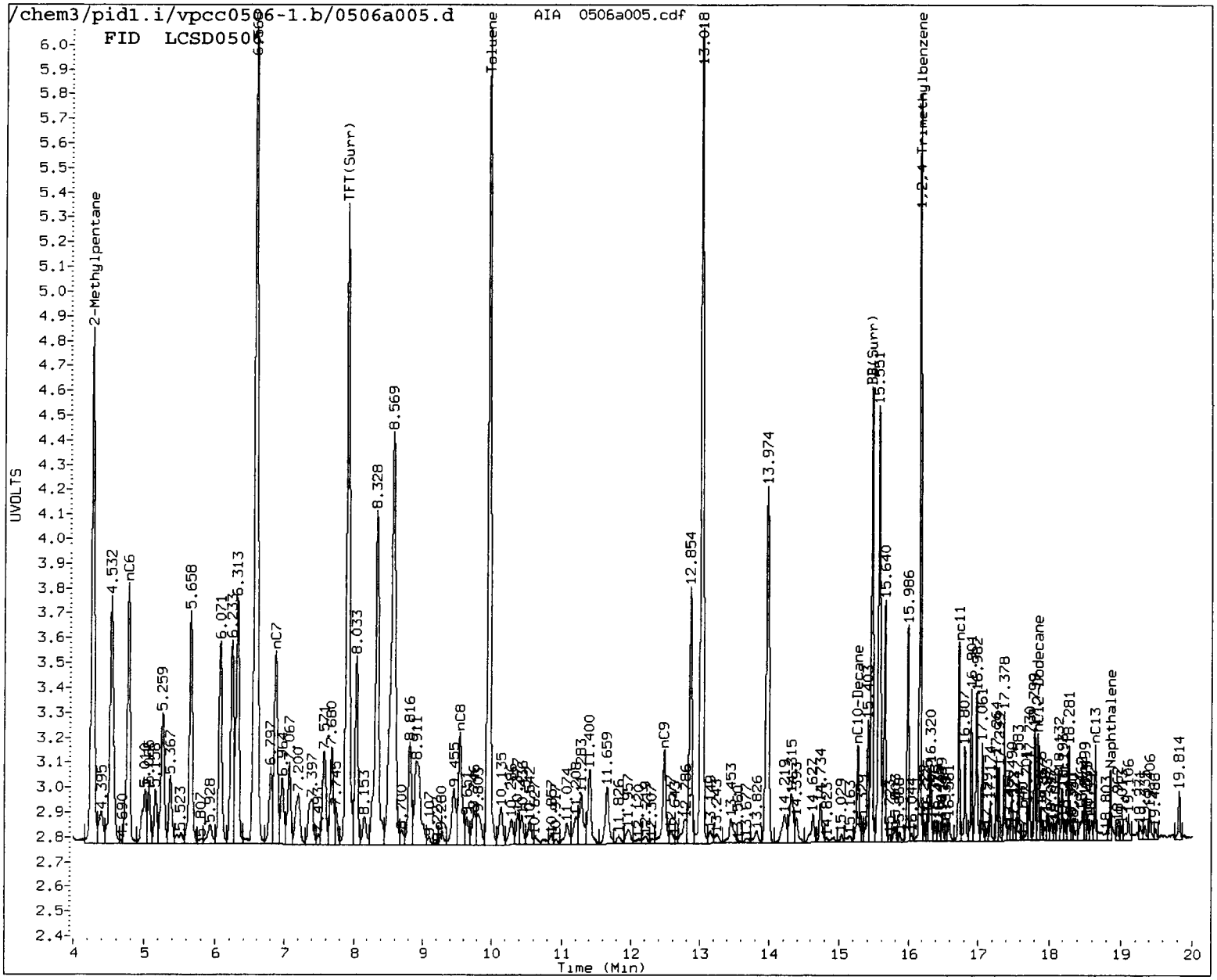
Operator: MH

Column diameter: 0.18





MH
5/9/11



MANUAL INTEGRATION

- [x] 1. Baseline correction
- [ ] 2. Poor chromatography
- [ ] 3. Peak not found
- [ ] 4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a006.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a006.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: MB0506
Client ID:
Injection Date: 06-MAY-2011 08:10
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.001	2512	33982	96.2	TFT(Surr)
15.449	-0.001	1847	15317	97.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	7524	0.024
8015B 2MP-TMB	(4.17 to 16.26)	652210	6480	0.010
AK101 nC6-nC10	(4.68 to 15.16)	527526	4258	0.008
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	8948	0.026

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5283	94.4	TFT(Surr)
15.449	0.000	11518	96.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a006.d

Date : 06-MAY-2011 08:10

Client ID:

Sample Info: MB0506

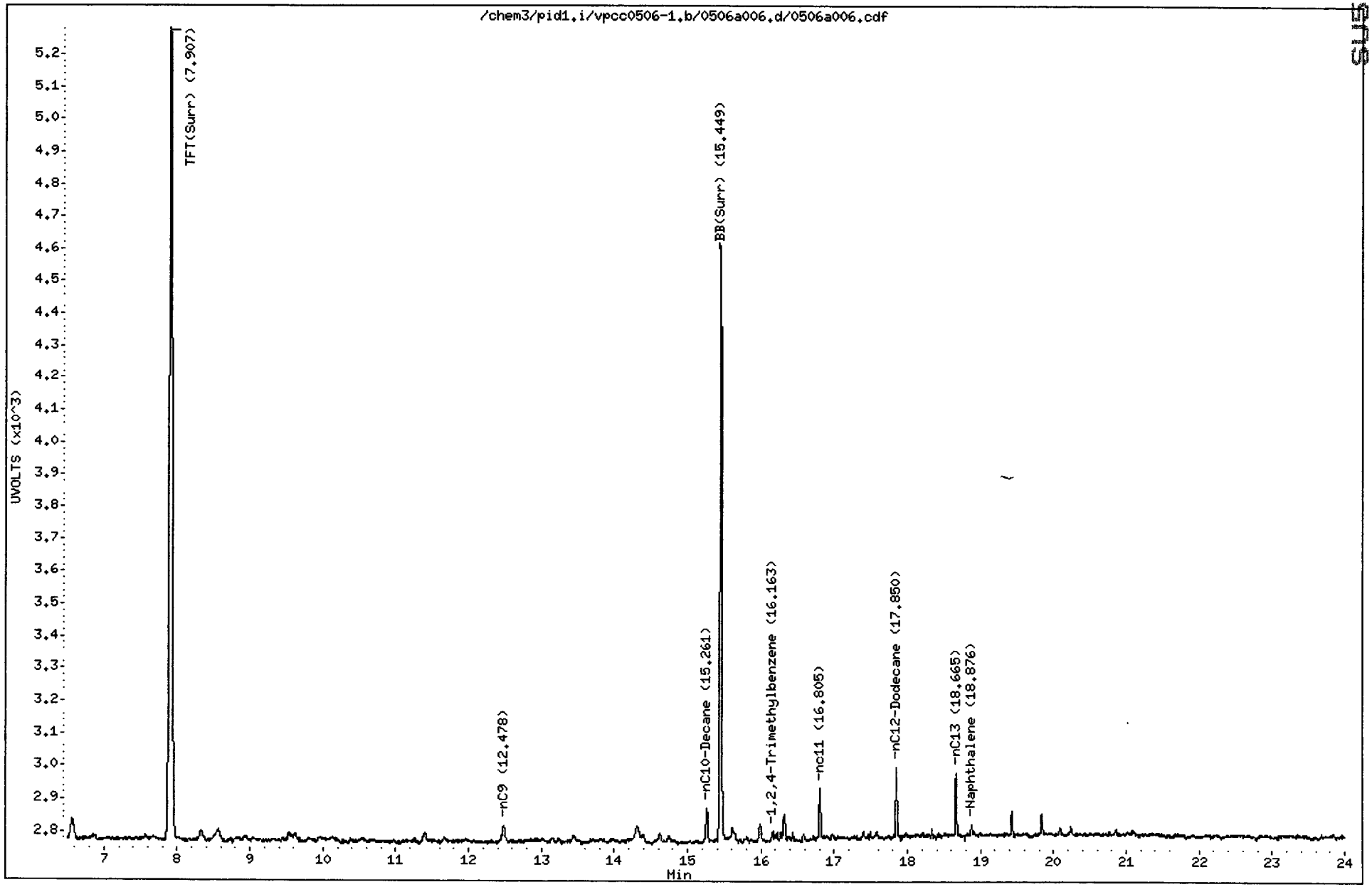
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpcc0506-1.b/0506a006.d/0506a006.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a006.d

Date : 06-MAY-2011 08:10

Client ID:

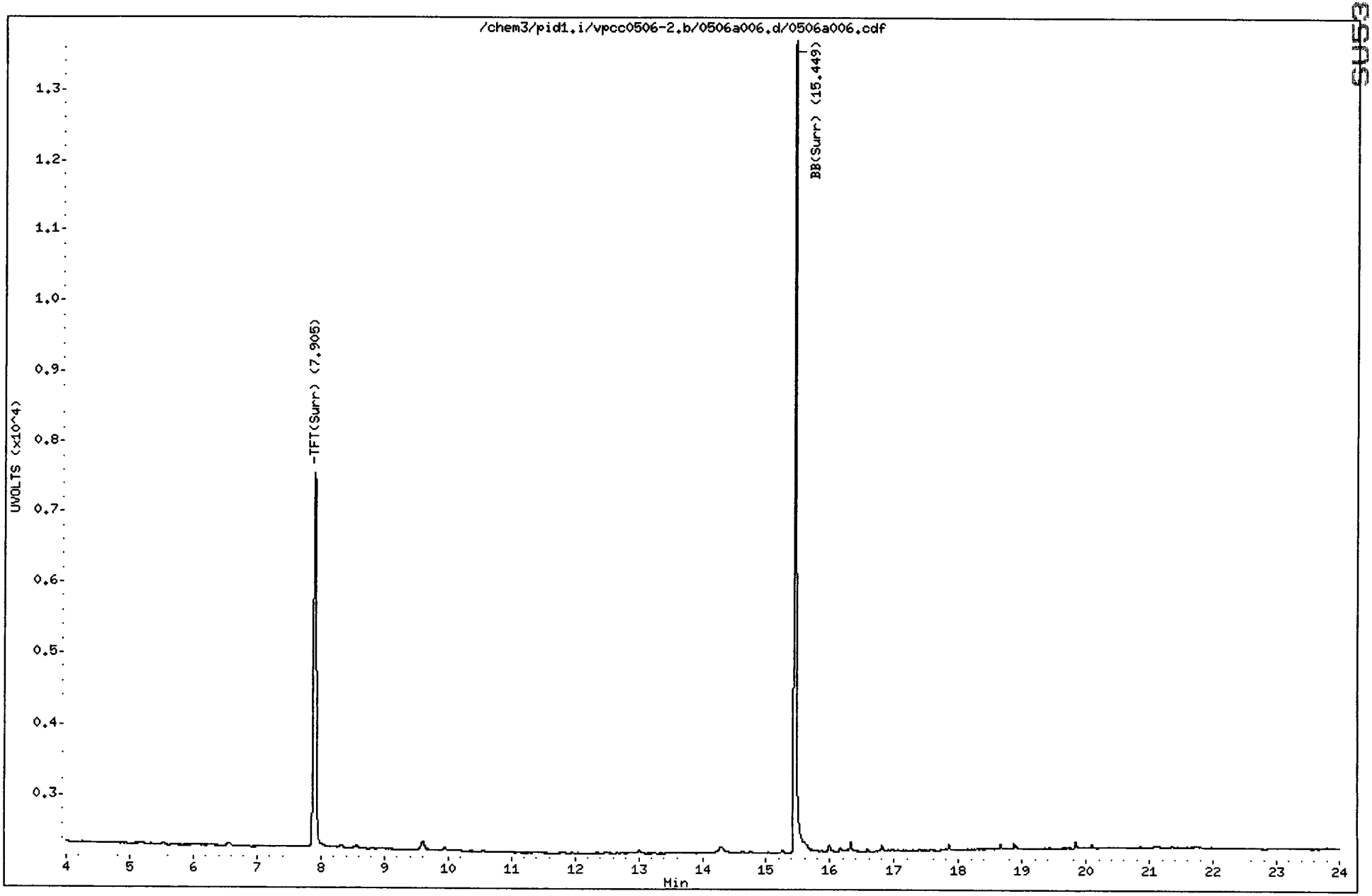
Sample Info: MB0506

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a013.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a013.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU53A
Client ID: MW5042811
Injection Date: 06-MAY-2011 11:55
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.002	2532	34512	97.0	TFT(Surr)
15.451	0.001	1843	15281	97.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	3800	0.012
8015B 2MP-TMB	(4.17 to 16.26)	652210	2868	0.004
AK101 nC6-nC10	(4.68 to 15.16)	527526	1723	0.003
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	4774	0.014

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.002	5282	94.4	TFT(Surr)
15.450	0.001	11464	96.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a013.d

Date : 06-MAY-2011 11:55

Client ID: MW5042811

Sample Info: SU53A

Column phase: RTX 502-2 FID

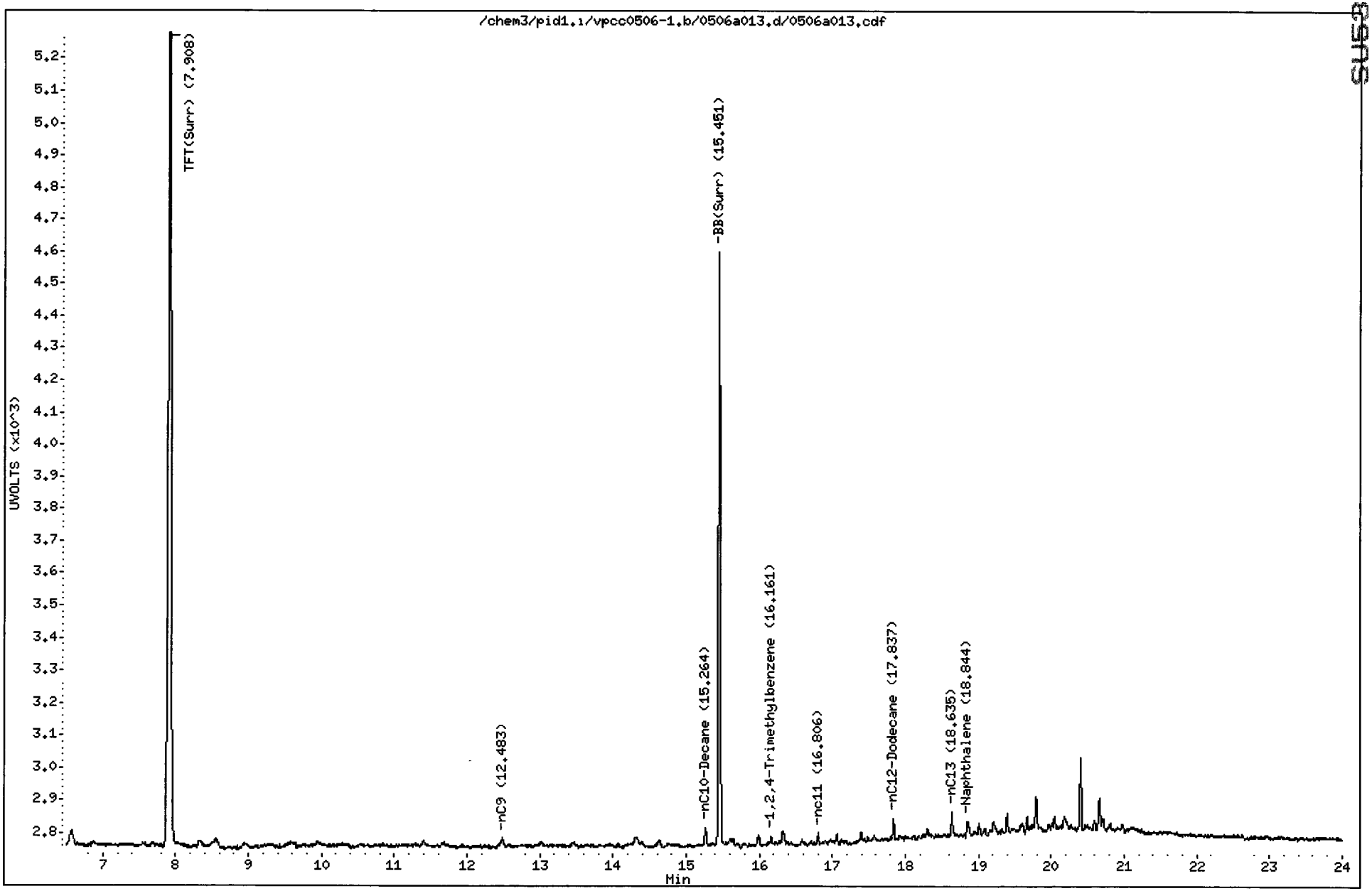
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3721

SU53 : 01200



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a013.d

Date : 06-MAY-2011 11:55

Client ID: MW5042811

Sample Info: SU53A

Column phase: RTX 502-2 PID

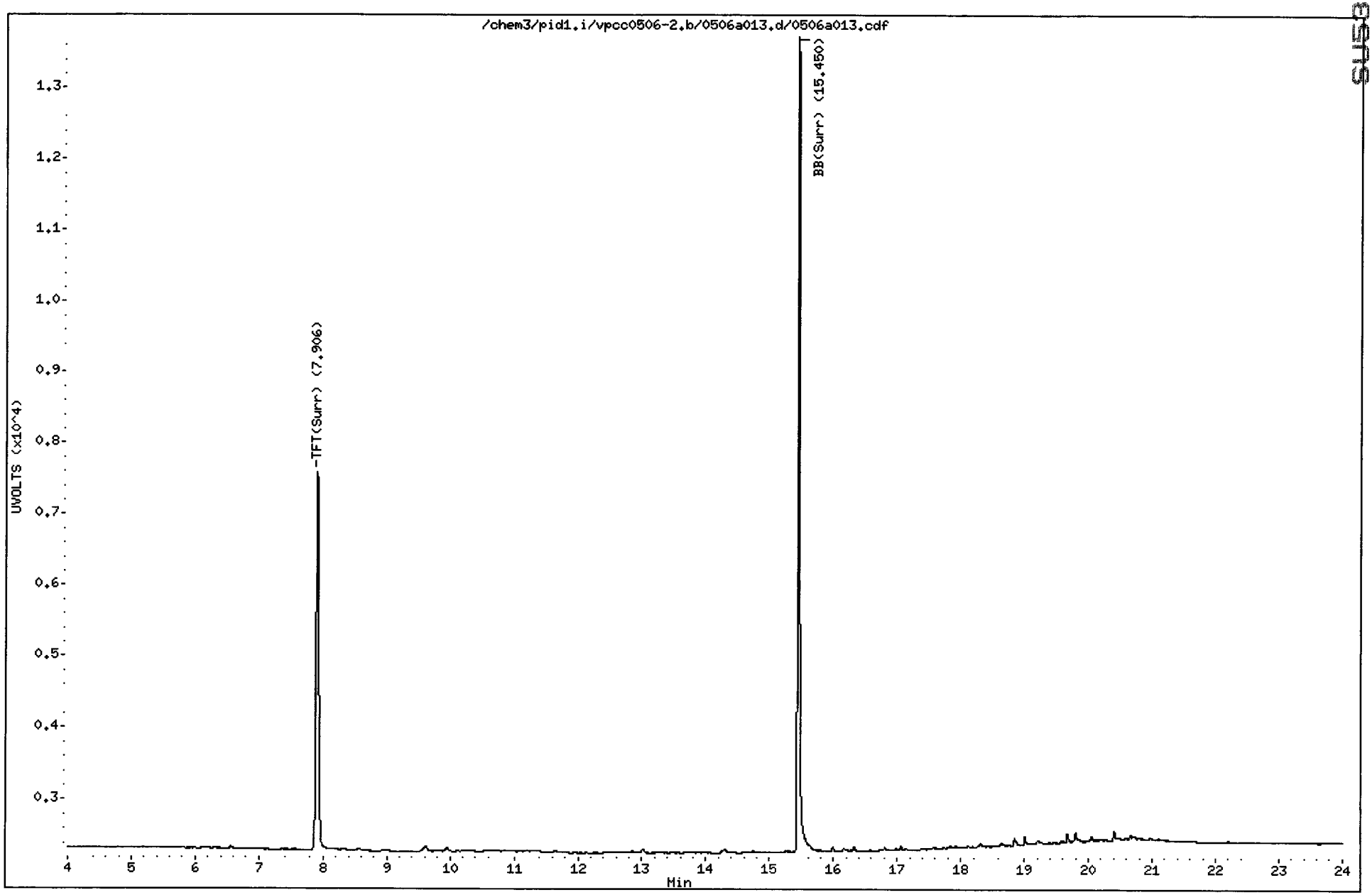
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3722

SU53 : 01201



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a015.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a015.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BCAL 2
Client ID:
Injection Date: 06-MAY-2011 12:53
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.001	2495	34075	95.6	TFT(Surr)
15.451	0.001	1818	15382	96.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	211234	0.661
8015B 2MP-TMB	(4.17 to 16.26)	652210	206863	0.317
AK101 nC6-nC10	(4.68 to 15.16)	527526	194664	0.369
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	211505	0.622

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5235	93.5	TFT(Surr)
15.450	0.001	11387	95.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.059	-0.004	8623	23.17	Benzene
9.949	0.001	7882	23.18	Toluene
12.852	0.001	7016	24.13	Ethylbenzene
13.014	0.001	15153	46.99	M/P-Xylene
13.972	0.001	6118	24.25	O-Xylene
4.536	-0.003	2599	22.54	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a015.d

Date : 06-MAY-2011 12:53

Client ID:

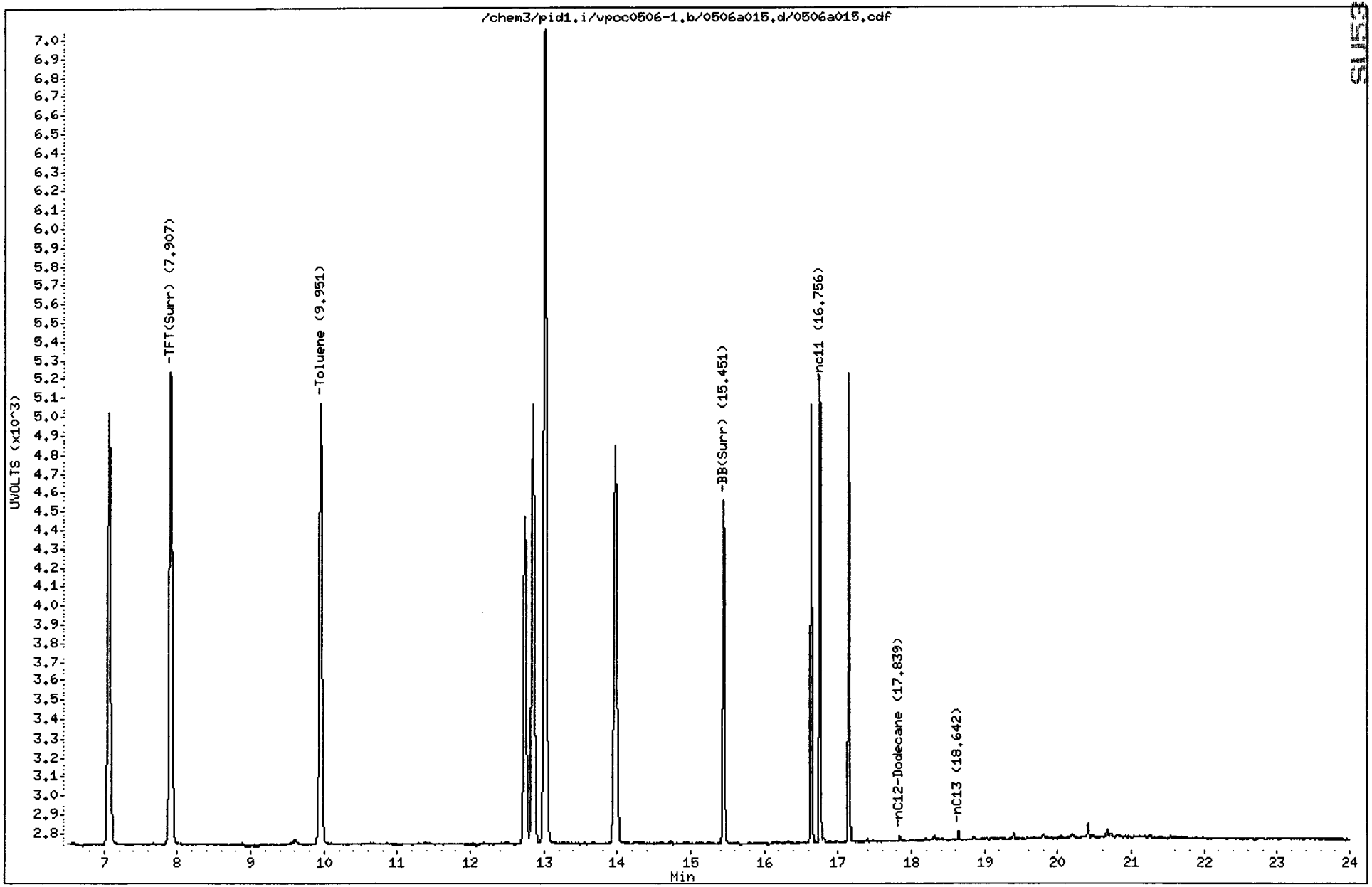
Sample Info: BCAL 2

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a015.d

Date : 06-MAY-2011 12:53

Client ID:

Sample Info: BCAL 2

Column phase: RTX 502-2 PID

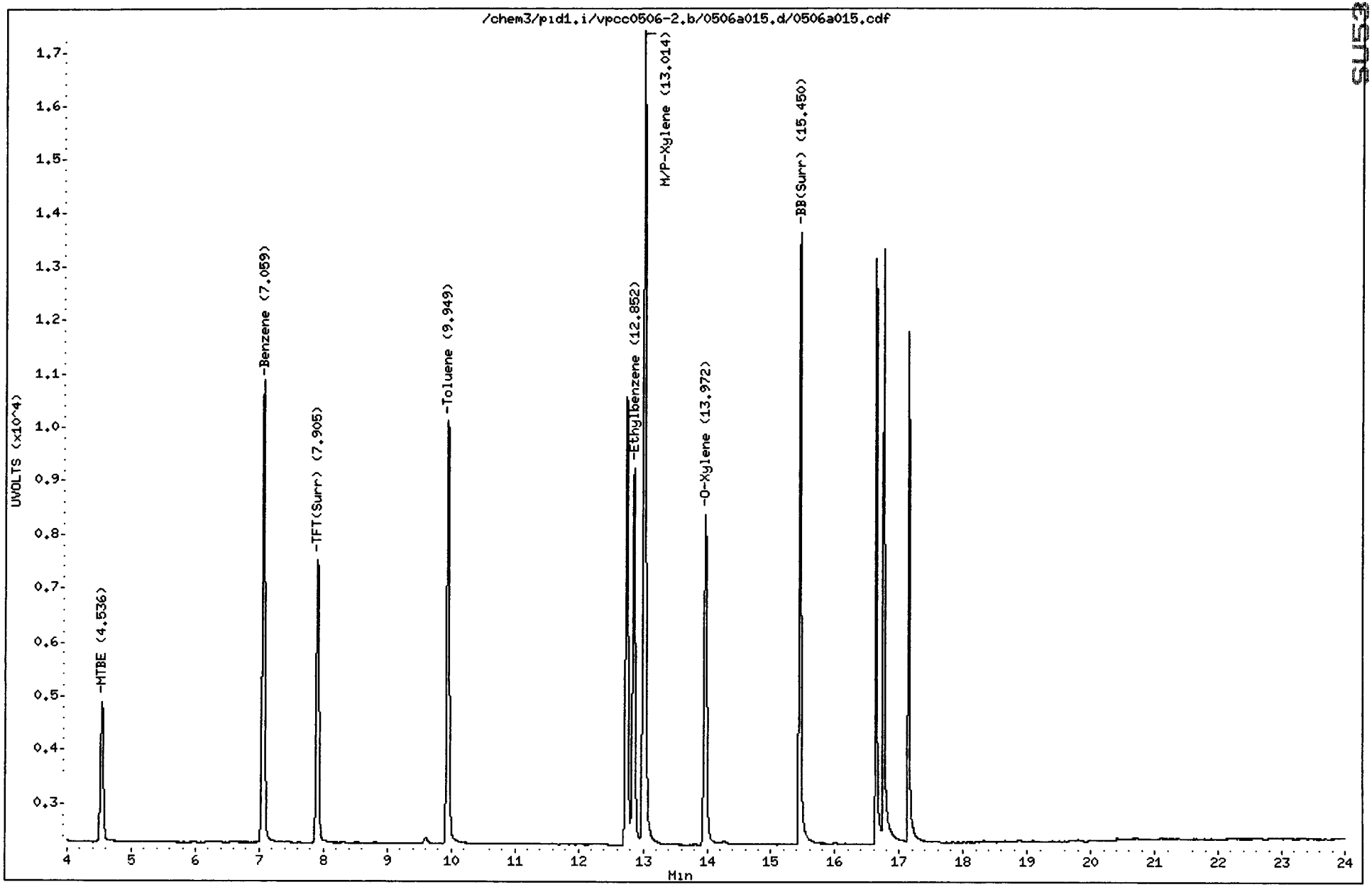
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3725

SUS3 : 01204



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a016.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a016.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GCAL 2
Client ID:
Injection Date: 06-MAY-2011 13:22
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.001	2834	48653	108.6	TFT(Surr)
15.451	0.001	1937	17527	102.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	795463	2.490 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	1612176	2.472 M
AK101 nC6-nC10	(4.68 to 15.16)	527526	1295895	2.457 M
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	837278	2.462 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.002	5728	102.3	TFT(Surr)
15.450	0.001	12013	101.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.068	0.004	3007	8.08	Benzene
9.951	0.003	30694	90.27	Toluene
12.853	0.002	7826	26.92	Ethylbenzene
13.018	0.006	30954	95.98	M/P-Xylene
13.973	0.002	11175	44.29	O-Xylene
4.542	0.003	581	5.04	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a016.d

Date : 06-MAY-2011 13:22

Client ID:

Sample Info: GCAL 2

Column phase: RTX 502-2 FID

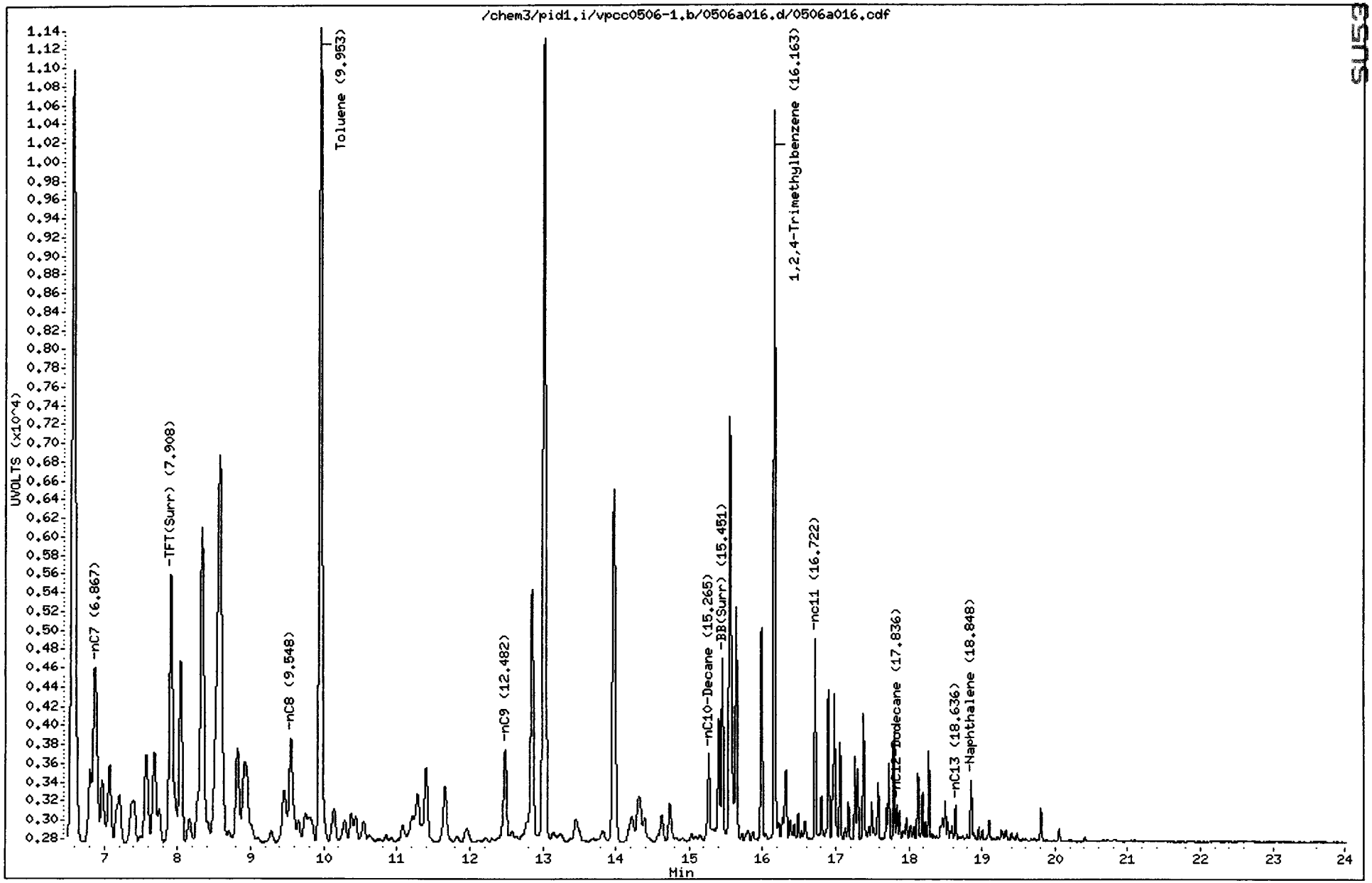
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3727

SUS3:01206



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a016.d

Date : 06-MAY-2011 13:22

Client ID:

Sample Info: GCAL 2

Column phase: RTX 502-2 PID

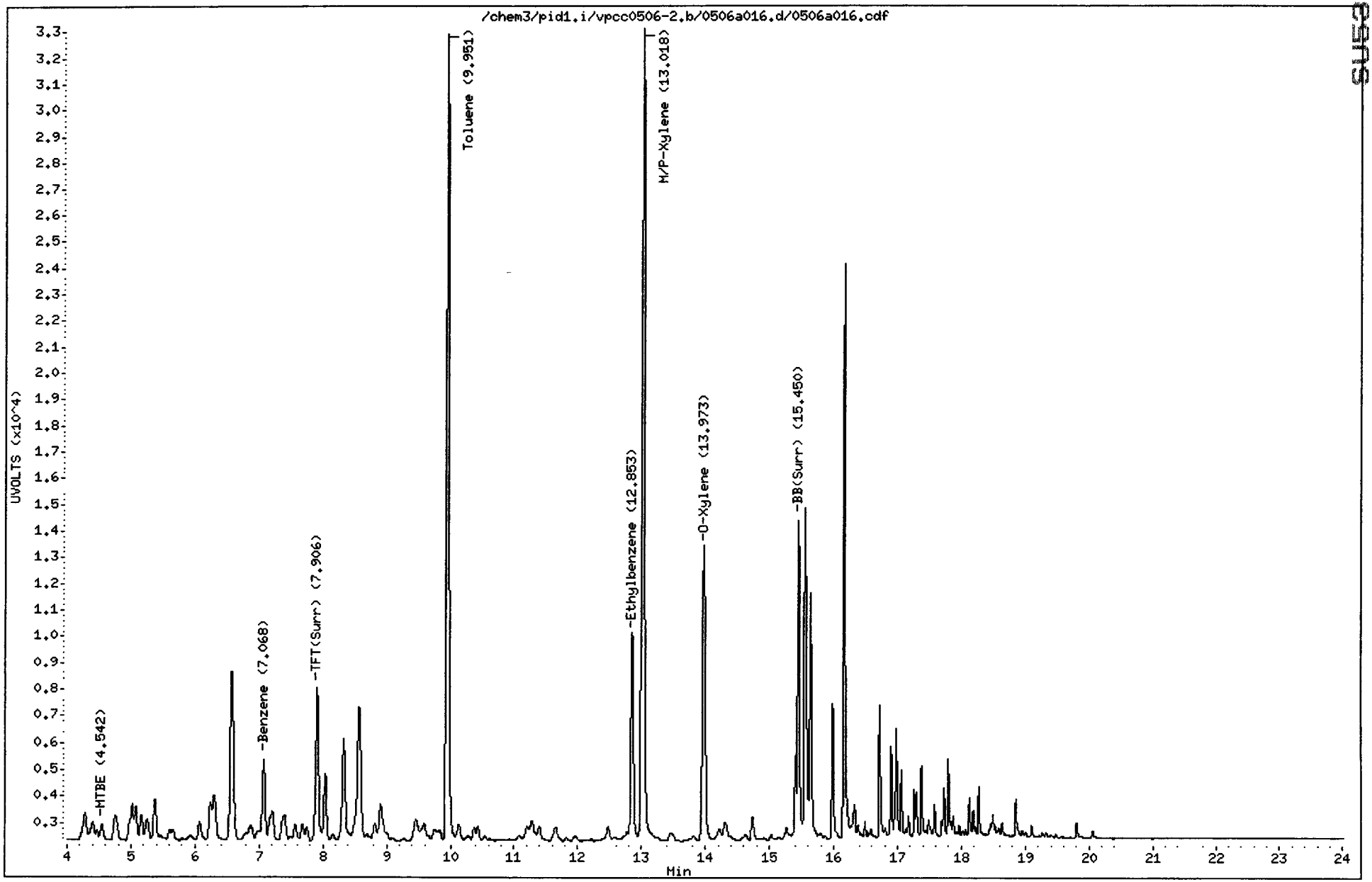
Instrument: pid1.i

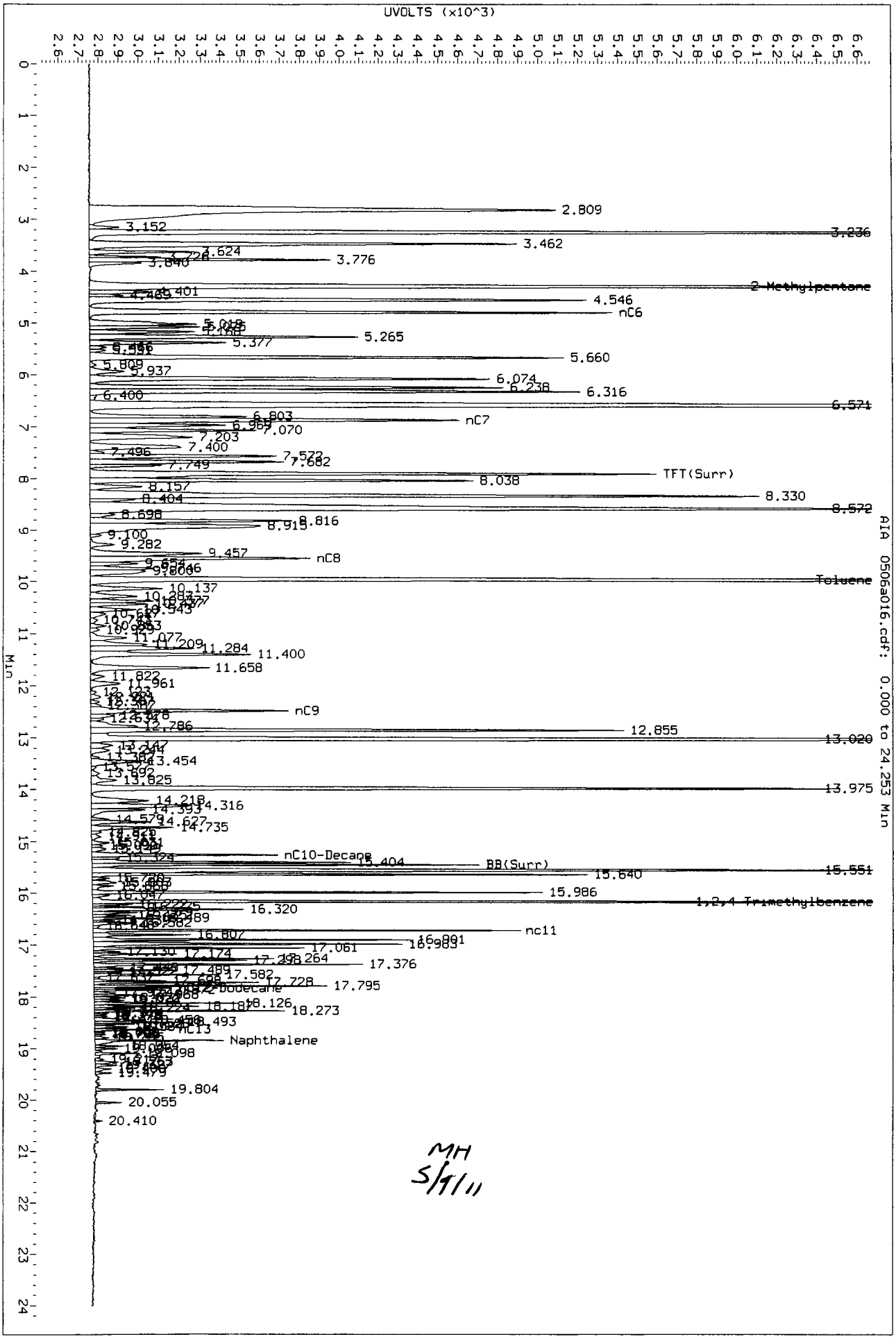
Operator: MH

Column diameter: 0.18

3728

SI53:01207




UVOLTS (x10^3)
Min
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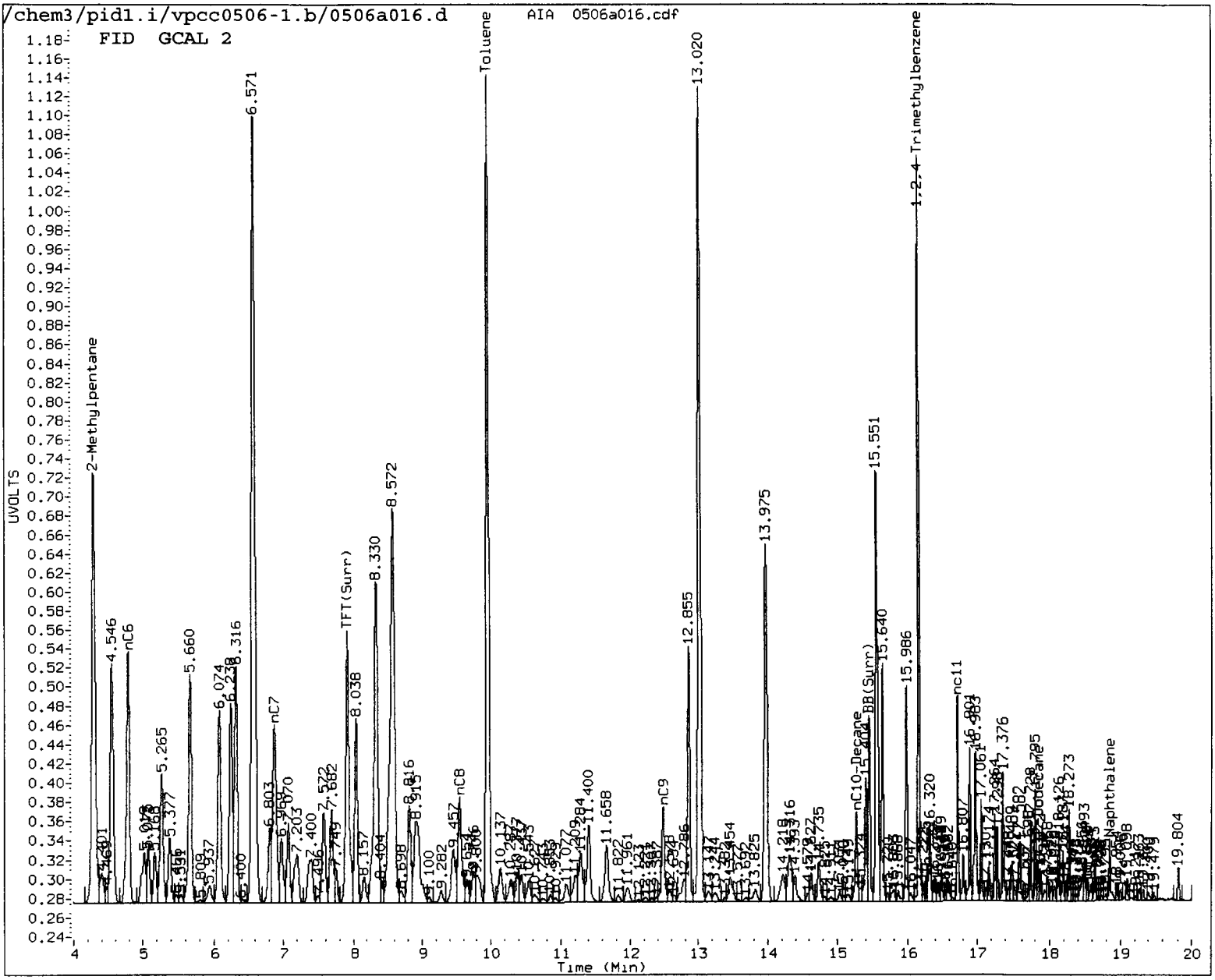
3.152
3.236
3.462
3.624
3.776
3.840
2-Methylpentane
4.401
4.546
nC6
5.265
5.377
5.660
5.809
5.937
6.074
6.238
6.316
6.400
6.571
6.803
nC7
6.969
7.070
7.203
7.400
7.496
7.572
7.682
7.749
TFT(Surr)
8.038
8.157
8.330
8.404
8.572
8.698
8.816
8.915
9.100
9.282
9.457
nC8
Toluene
10.137
11.077
11.209
11.284
11.400
11.658
11.822
11.961
nC9
12.786
12.855
13.020
13.454
13.825
13.975
14.218
14.316
14.393
14.579
14.627
14.735
nC10-Decane
15.404
BB(Surr)
15.551
15.640
15.986
1,2,4 Trimethylbenzene
16.320
nc11
16.807
16.891
16.983
17.061
17.130
17.174
17.264
17.376
17.582
17.728
17.795
Dodecane
18.126
18.273
18.493
nC13
Naphthalene
19.098
19.804
20.055
20.410
MH
5/9/11
Data File: /chem3/pid1.i/vpcc0506-1.b/0506a016.d/0506a016.cdf
Injection Date: 06-MAY-2011 13:22
Instrument: pid1.i
Client Sample ID:
AIA 0506a016.cdf: 0.000 to 24.253 Min



MANUAL INTEGRATION

- [x] 1. Baseline correction
- [ ] 2. Poor chromatography
- [ ] 3. Peak not found
- [ ] 4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a017.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a017.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU53B
Client ID: MW15042811
Injection Date: 06-MAY-2011 13:51
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.910	0.004	2563	34798	98.2	TFT(Surr)
15.451	0.002	1869	15560	99.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	16441	0.051
8015B 2MP-TMB	(4.17 to 16.26)	652210	18097	0.028
AK101 nC6-nC10	(4.68 to 15.16)	527526	13157	0.025
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	17224	0.051

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.907	0.003	5397	96.4	TFT(Surr)
15.451	0.002	11624	97.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
9.951	0.003	208	0.61	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a017.d

Date : 06-MAY-2011 13:51

Client ID: MW15042811

Sample Info: SU53B

Column phase: RTX 502-2 FID

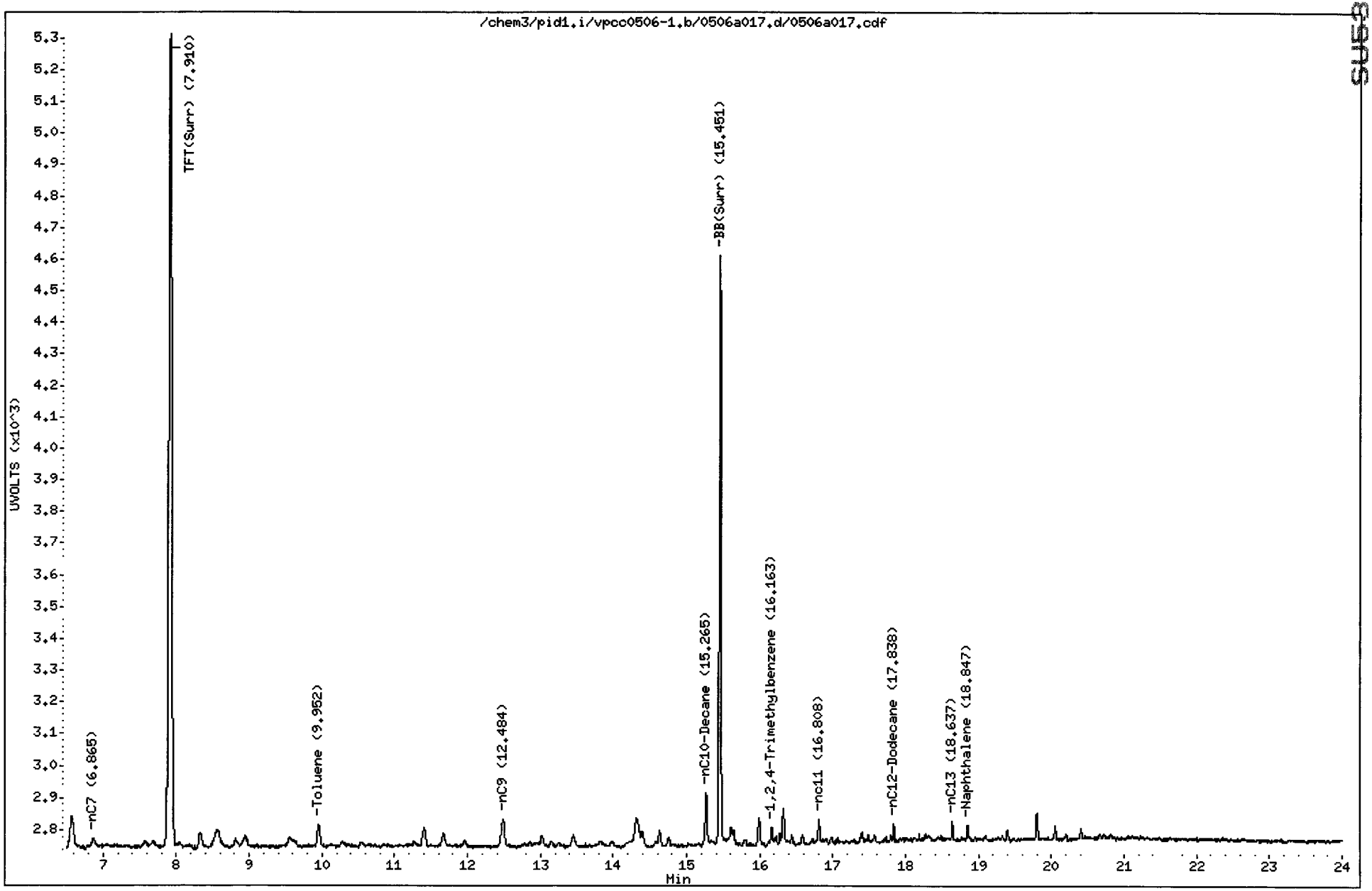
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3732

SU53 : 01211



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a017.d

Date : 06-MAY-2011 13:51

Client ID: MW15042811

Sample Info: SU53B

Column phase: RTX 502-2 PID

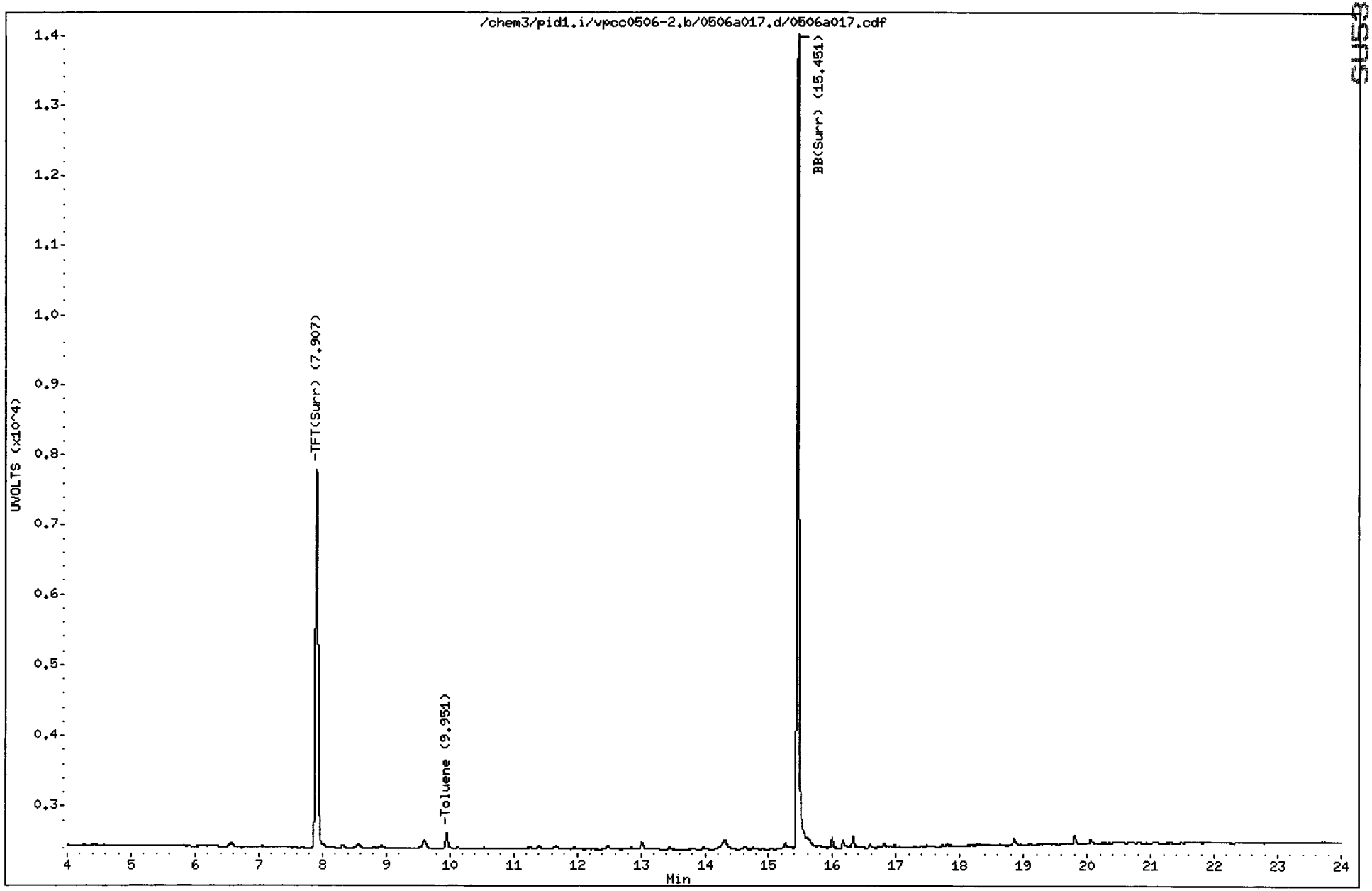
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3733

SU53 : 01212



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a018.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a018.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU53C
Client ID: MW4042811
Injection Date: 06-MAY-2011 14:20
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.002	2563	34815	98.2	TFT(Surr)
15.450	0.000	1858	15613	98.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	1156	0.004
8015B 2MP-TMB	(4.17 to 16.26)	652210	192	0.000
AK101 nC6-nC10	(4.68 to 15.16)	527526	1	0.000
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	1395	0.004

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.907	0.003	5375	96.0	TFT(Surr)
15.450	0.001	11577	97.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a018.d

Date : 06-MAY-2011 14:20

Client ID: MW4042811

Sample Info: SU53C

Column phase: RTX 502-2 FID

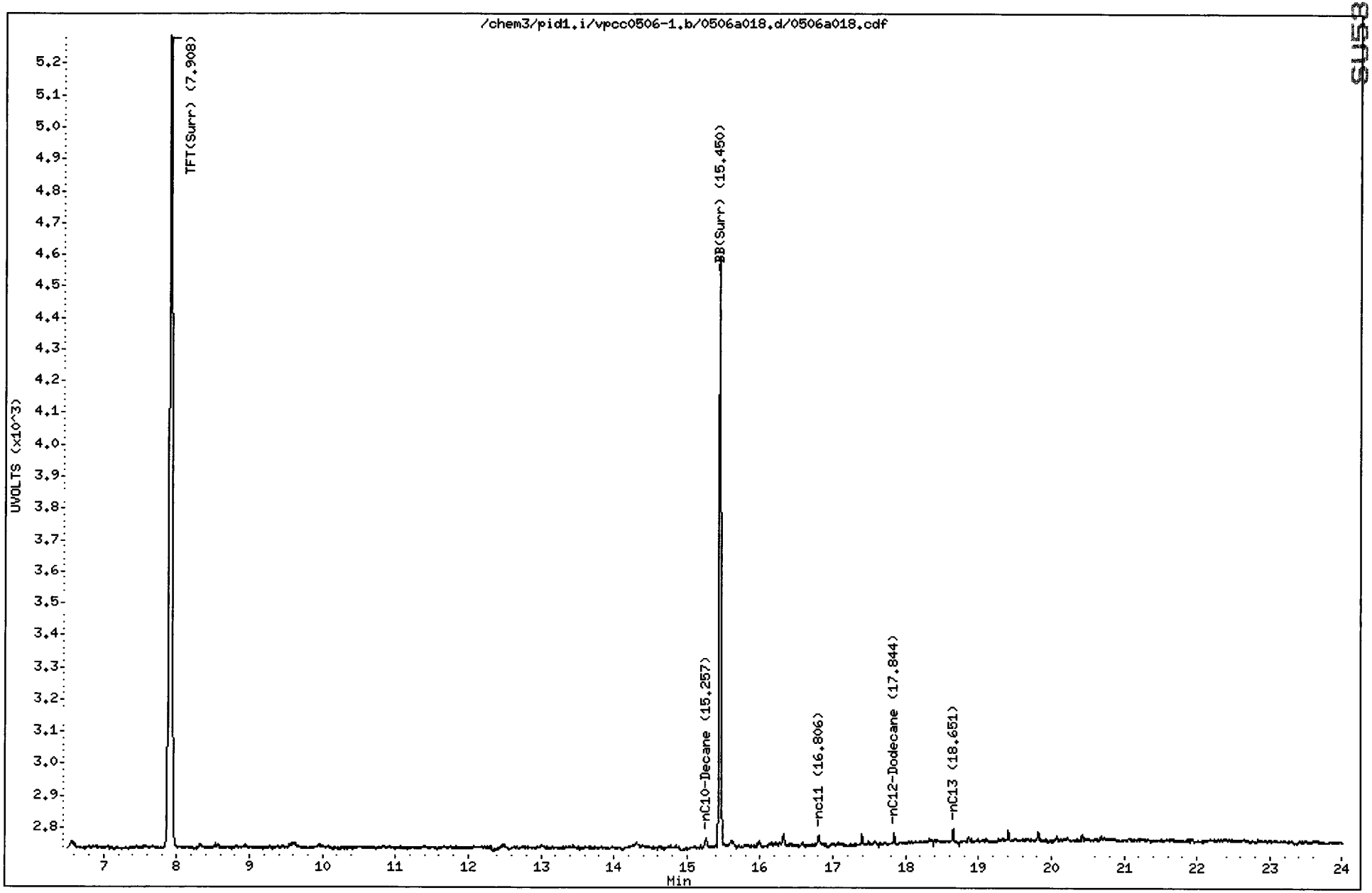
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3735

SU53 : 01214



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a018.d

Date : 06-MAY-2011 14:20

Client ID: MW4042811

Sample Info: SU53C

Column phase: RTX 502-2 PID

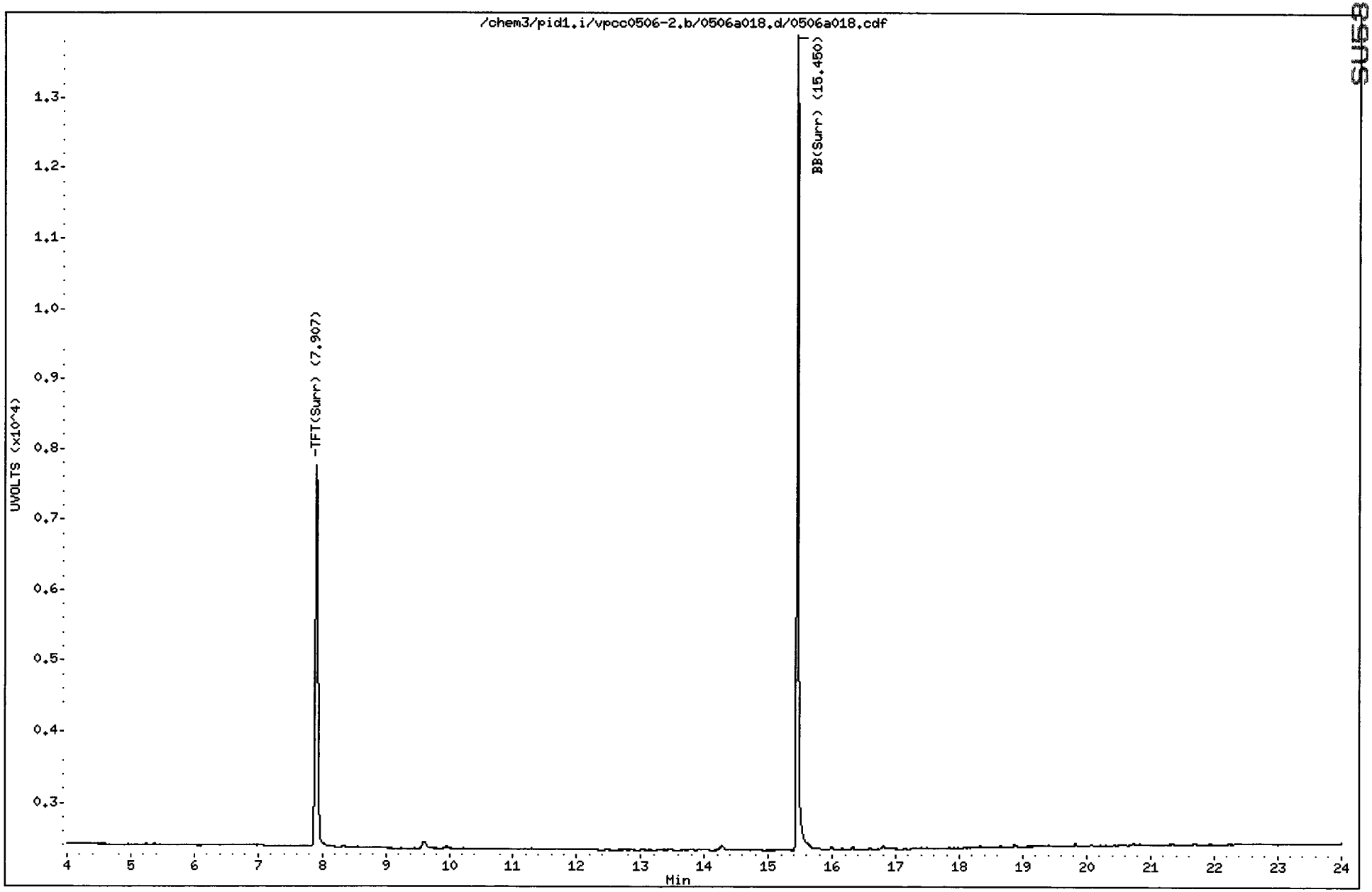
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3736

SU53 : 01215



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a019.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a019.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU53D
Client ID: MW17042811
Injection Date: 06-MAY-2011 14:49
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.002	2543	34541	97.4	TFT(Surr)
15.451	0.001	1816	15397	96.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	1347	0.004
8015B 2MP-TMB	(4.17 to 16.26)	652210	891	0.001
AK101 nC6-nC10	(4.68 to 15.16)	527526	891	0.002
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	1573	0.005

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.002	5337	95.3	TFT(Surr)
15.450	0.001	11308	95.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
9.950	0.002	218	0.64	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a019.d

Date : 06-MAY-2011 14:49

Client ID: MW17042811

Sample Info: SU53D

Column phase: RTX 502-2 FID

Instrument: pid1.i

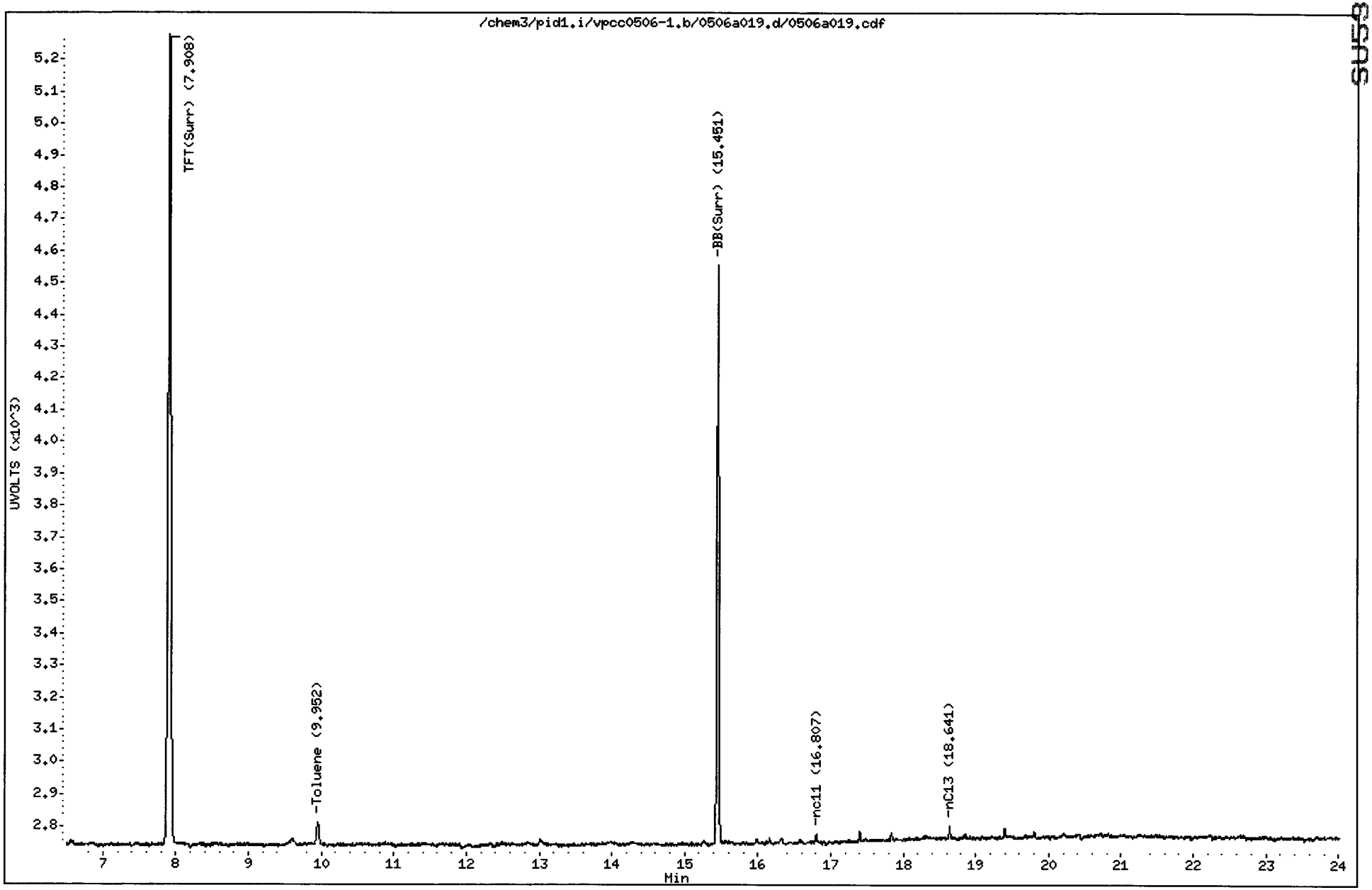
Operator: MH

Column diameter: 0.18

3738

SU53:01217

/chem3/pid1.i/vpcc0506-1.b/0506a019.d/0506a019.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a019.d

Date : 06-MAY-2011 14:49

Client ID: MW17042811

Sample Info: SU53D

Column phase: RTX 502-2 PID

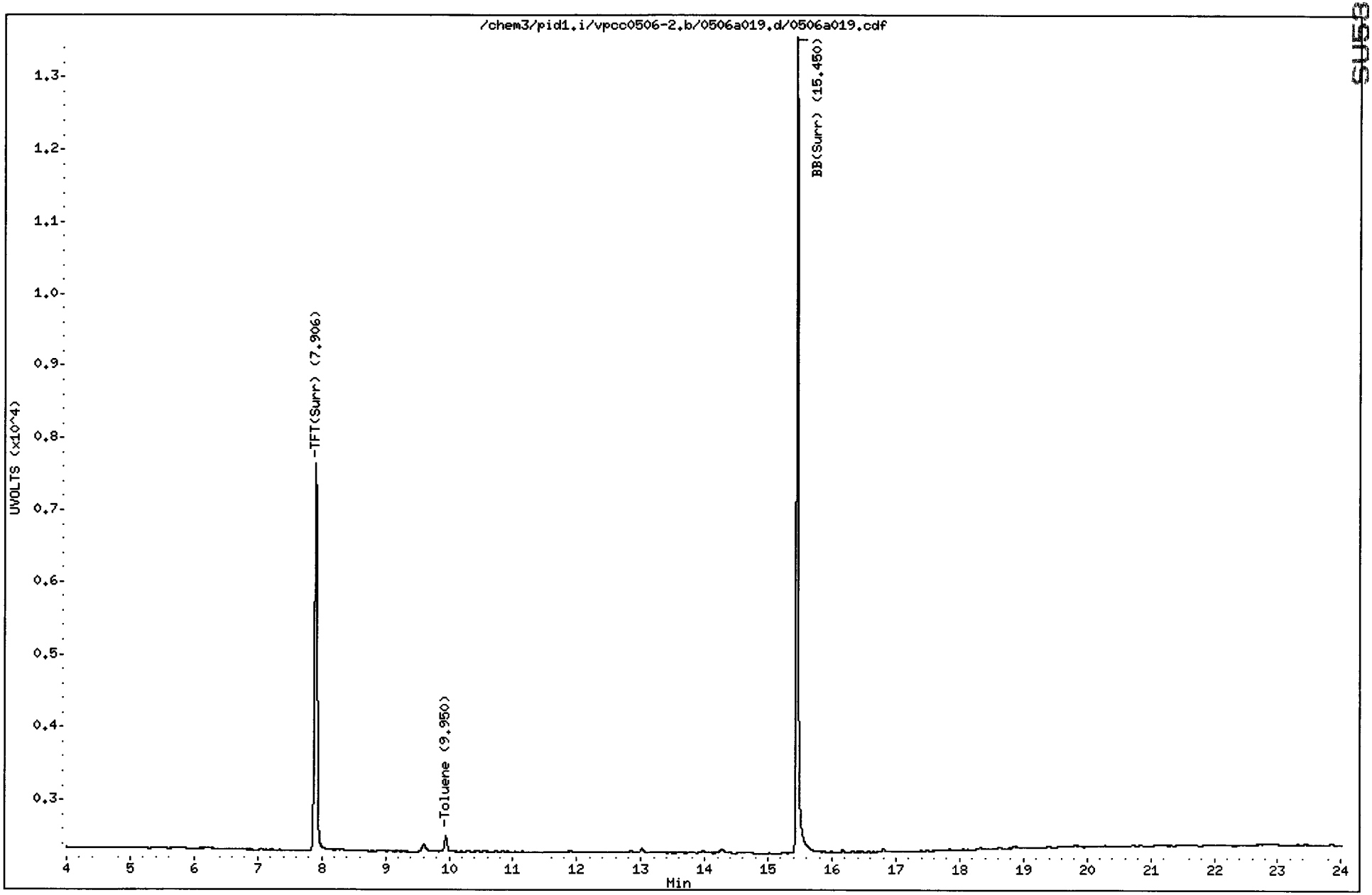
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3739

SU53 : 91218



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a020.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a020.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU53E
Client ID: MW14042811
Injection Date: 06-MAY-2011 15:18
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.909	0.003	2509	34356	96.1	TFT(Surr)
15.451	0.001	1854	15402	98.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	571	0.002
8015B 2MP-TMB	(4.17 to 16.26)	652210	325	0.000
AK101 nC6-nC10	(4.68 to 15.16)	527526	324	0.001
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	772	0.002

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.907	0.002	5247	93.7	TFT(Surr)
15.451	0.002	11438	96.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a020.d

Date : 06-MAY-2011 15:18

Client ID: MW14042811

Sample Info: SU53E

Column phase: RTX 502-2 FID

Instrument: pid1.i

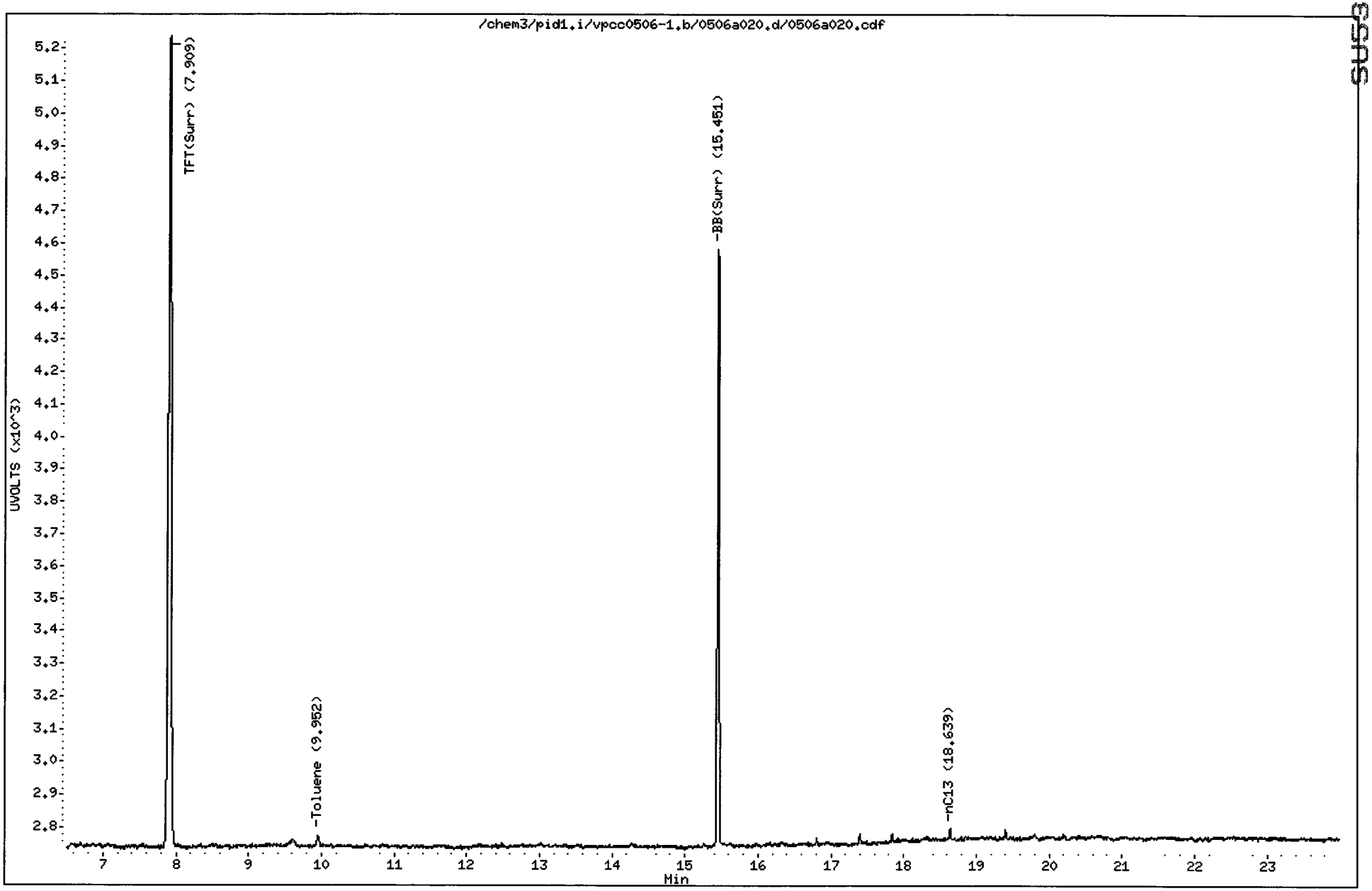
Operator: MH

Column diameter: 0.18

3741

SU53 : 01220

/chem3/pid1.i/vpcc0506-1.b/0506a020.d/0506a020.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a020.d

Date : 06-MAY-2011 15:18

Client ID: MW14042811

Sample Info: SU53E

Column phase: RTX 502-2 PID

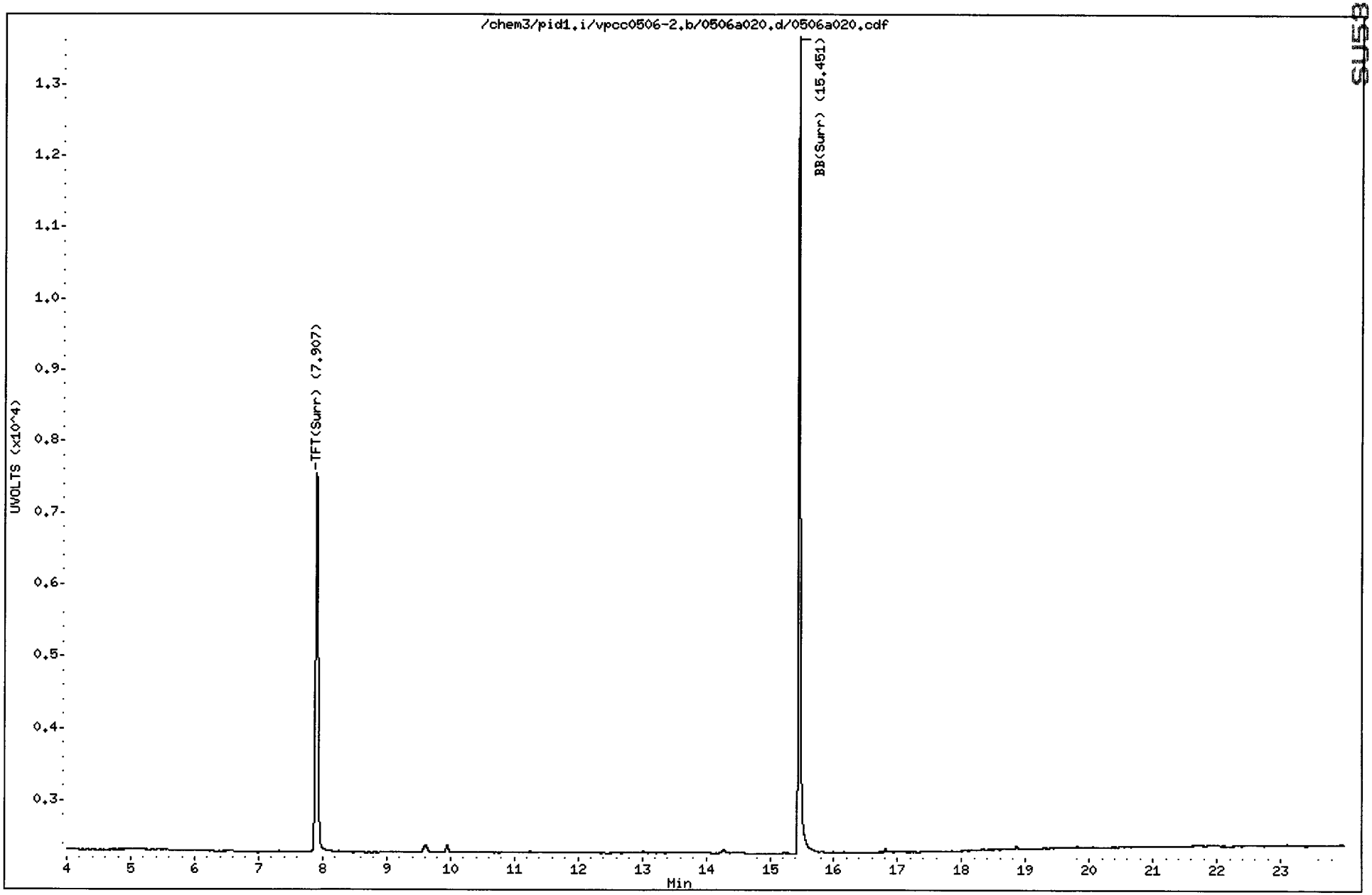
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3742

SU53 : 01221



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a021.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a021.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU53F
Client ID: MW16042811
Injection Date: 06-MAY-2011 15:47
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.002	2561	34867	98.1	TFT(Surr)
15.451	0.001	1833	15372	97.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	857	0.003
8015B 2MP-TMB	(4.17 to 16.26)	652210	397	0.001
AK101 nC6-nC10	(4.68 to 15.16)	527526	396	0.001
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	1114	0.003

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.001	5330	95.2	TFT(Surr)
15.451	0.002	11398	95.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a021.d

Date : 06-MAY-2011 15:47

Client ID: MW16042811

Sample Info: SU53F

Column phase: RTX 502-2 FID

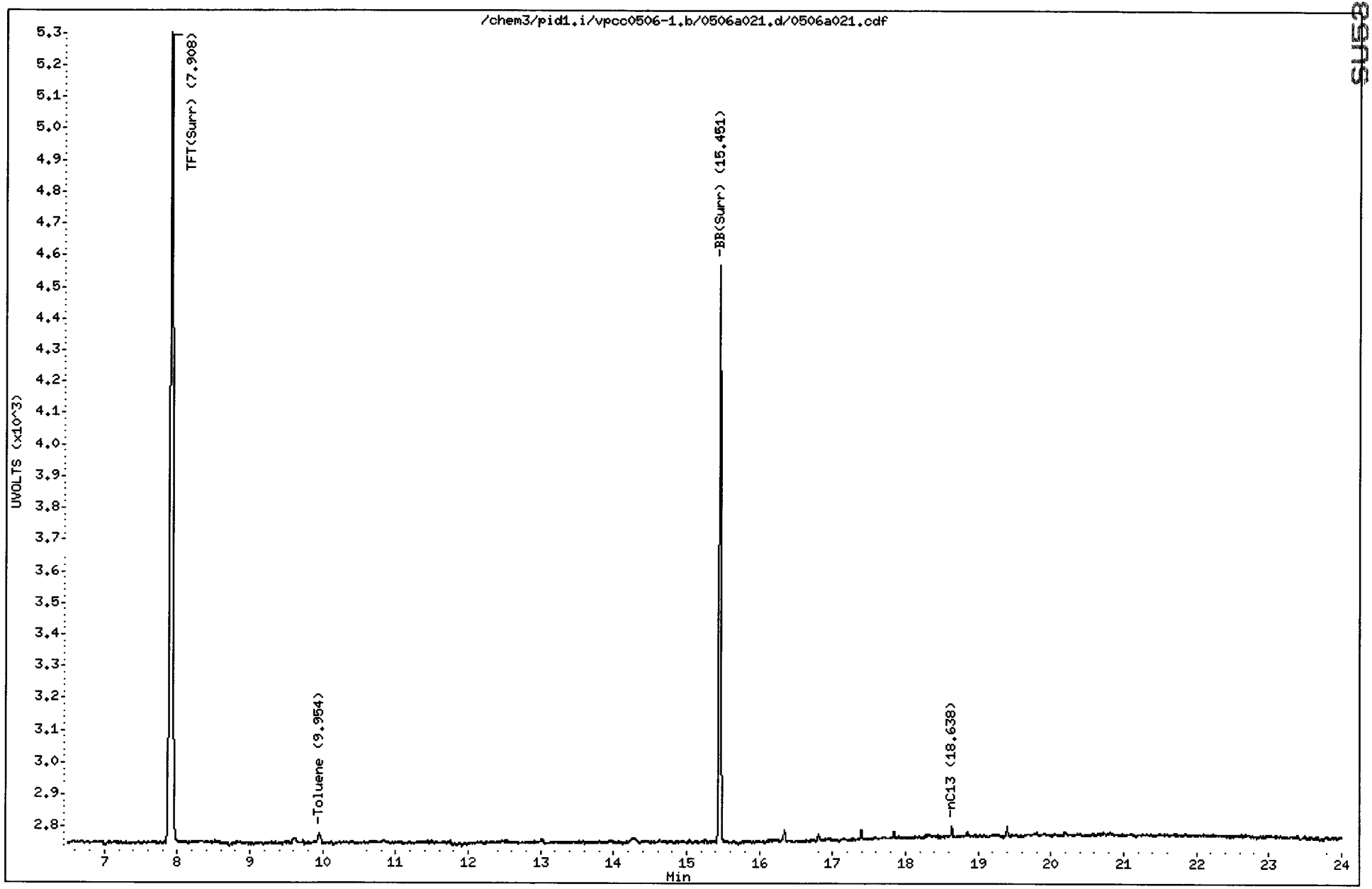
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3744

SU53 : 01223



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a021.d

Date : 06-MAY-2011 15:47

Client ID: MW16042811

Sample Info: SU53F

Column phase: RTX 502-2 PID

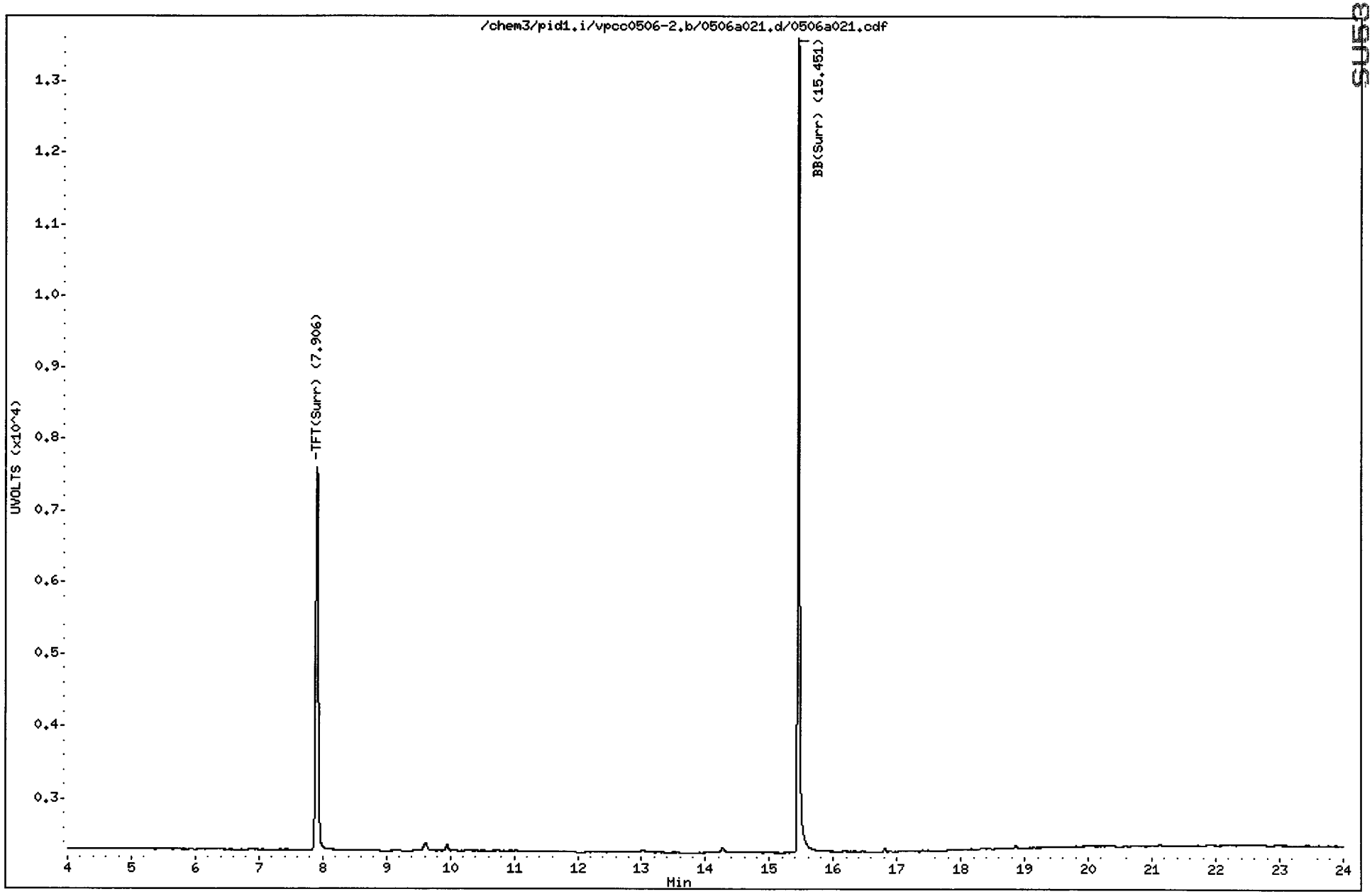
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3745

SU53 : 012214



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a022.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a022.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU73A
Client ID: MW-01-042911
Injection Date: 06-MAY-2011 16:16
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.910	0.004	2502	34327	95.8	TFT(Surr)
15.450	0.000	1826	15799	96.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	88316	0.276 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	27206	0.042 M
AK101 nC6-nC10	(4.68 to 15.16)	527526	13300	0.025 M
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	129178	0.380 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.907	0.003	5189	92.7	TFT(Surr)
15.450	0.001	11239	94.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.057	-0.006	161	0.43	Benzene
ND	---	---	---	Toluene
12.852	0.001	734	2.52	Ethylbenzene
13.010	-0.003	579	1.80	M/P-Xylene
13.973	0.002	235	0.93	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a022.d

Date : 06-MAY-2011 16:16

Client ID: MW-01-042911

Sample Info: SU73A

Column phase: RTX 502-2 FID

Instrument: pid1.i

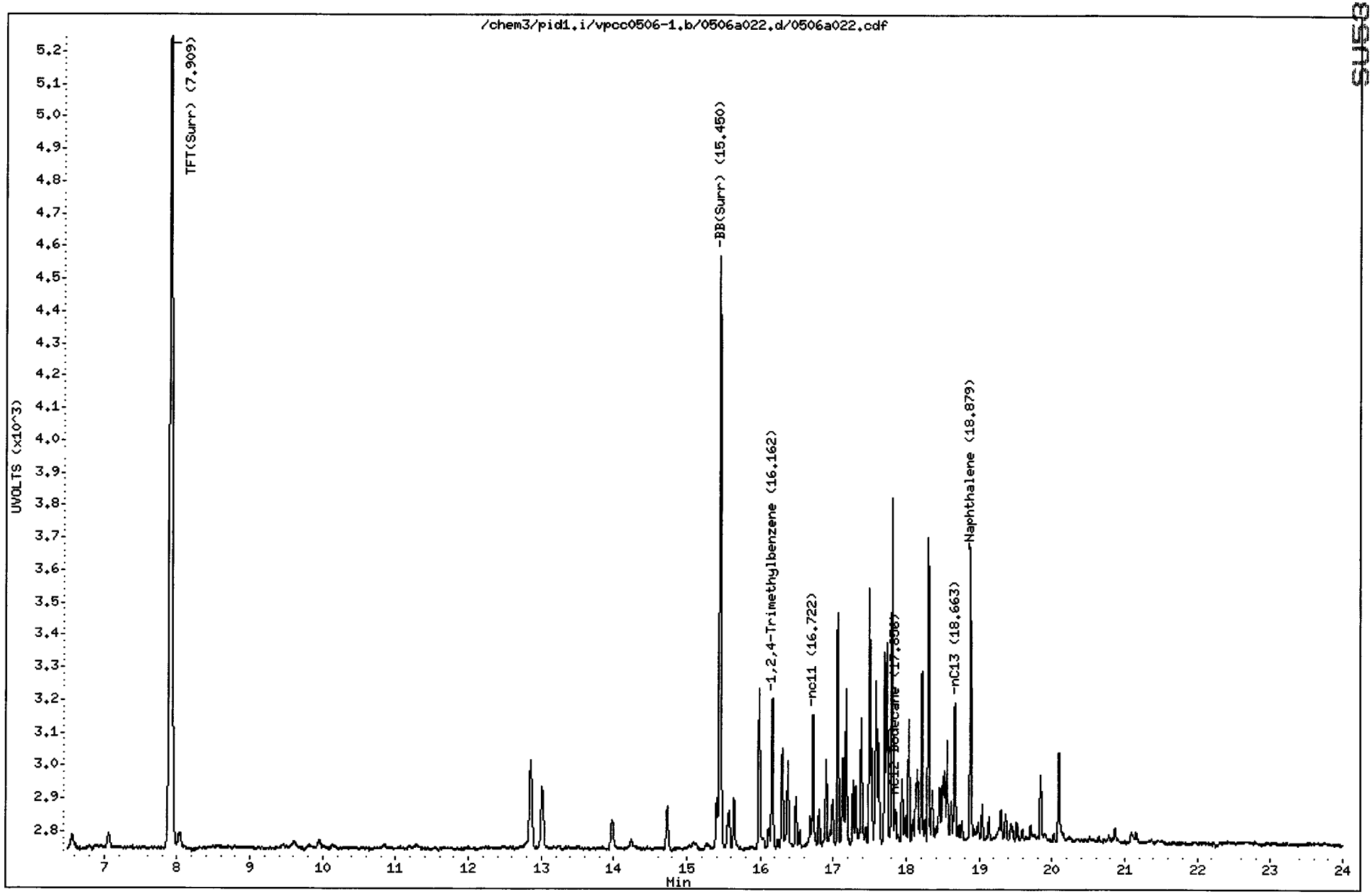
Operator: MH

Column diameter: 0.18

3747

SU53 : 01226

/chem3/pid1.i/vpcc0506-1.b/0506a022.d/0506a022.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a022.d

Date : 06-MAY-2011 16:16

Client ID: MW-01-042911

Sample Info: SU73A

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3748

SU53:01227

/chem3/pid1.i/vpcc0506-2.b/0506a022.d/0506a022.cdf

UVOLTS (x10^4)

-Benzene (7.057)

-TFT(Surr) (7.907)

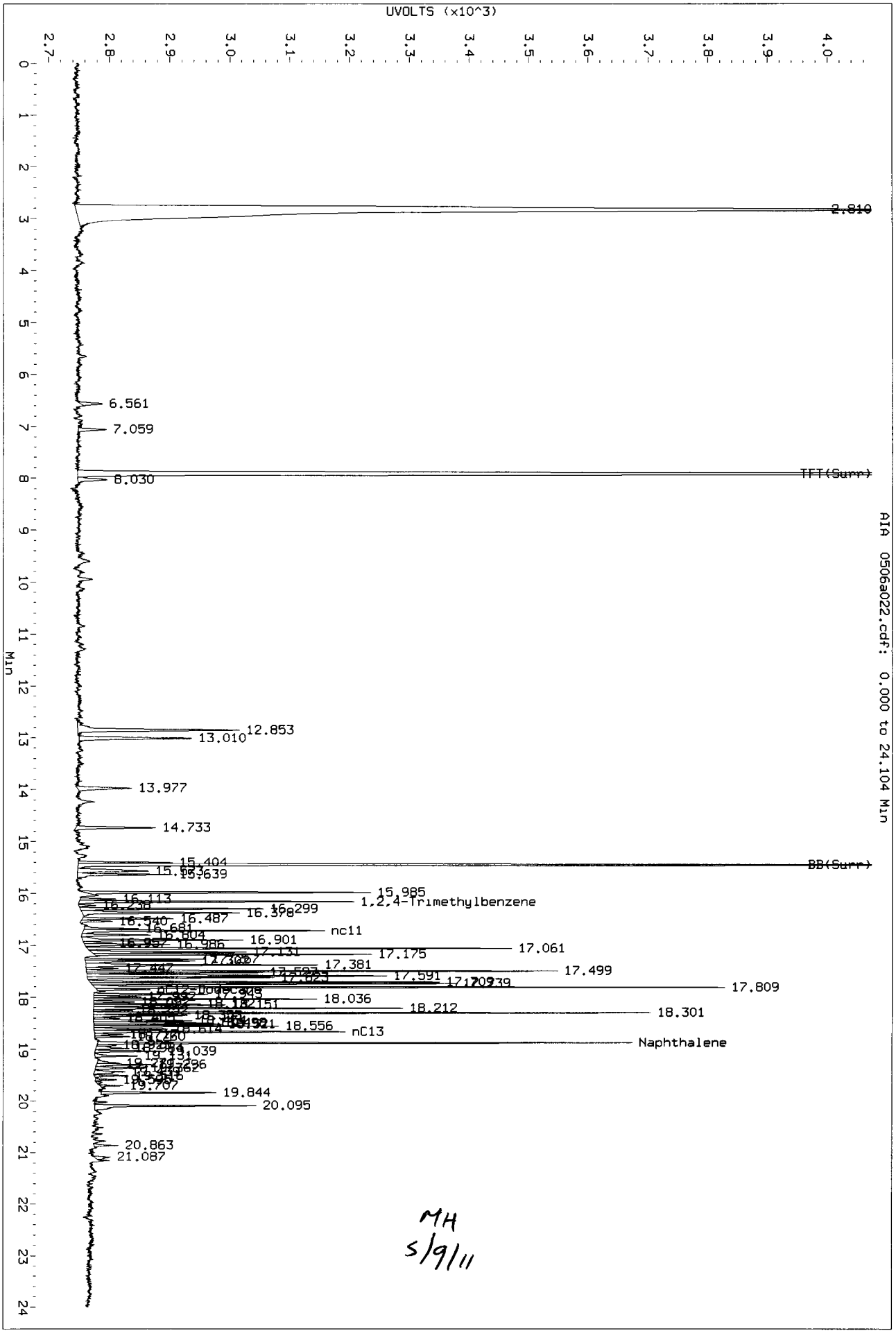
-Ethylbenzene (12.852)

-M/P-Xylene (13.010)

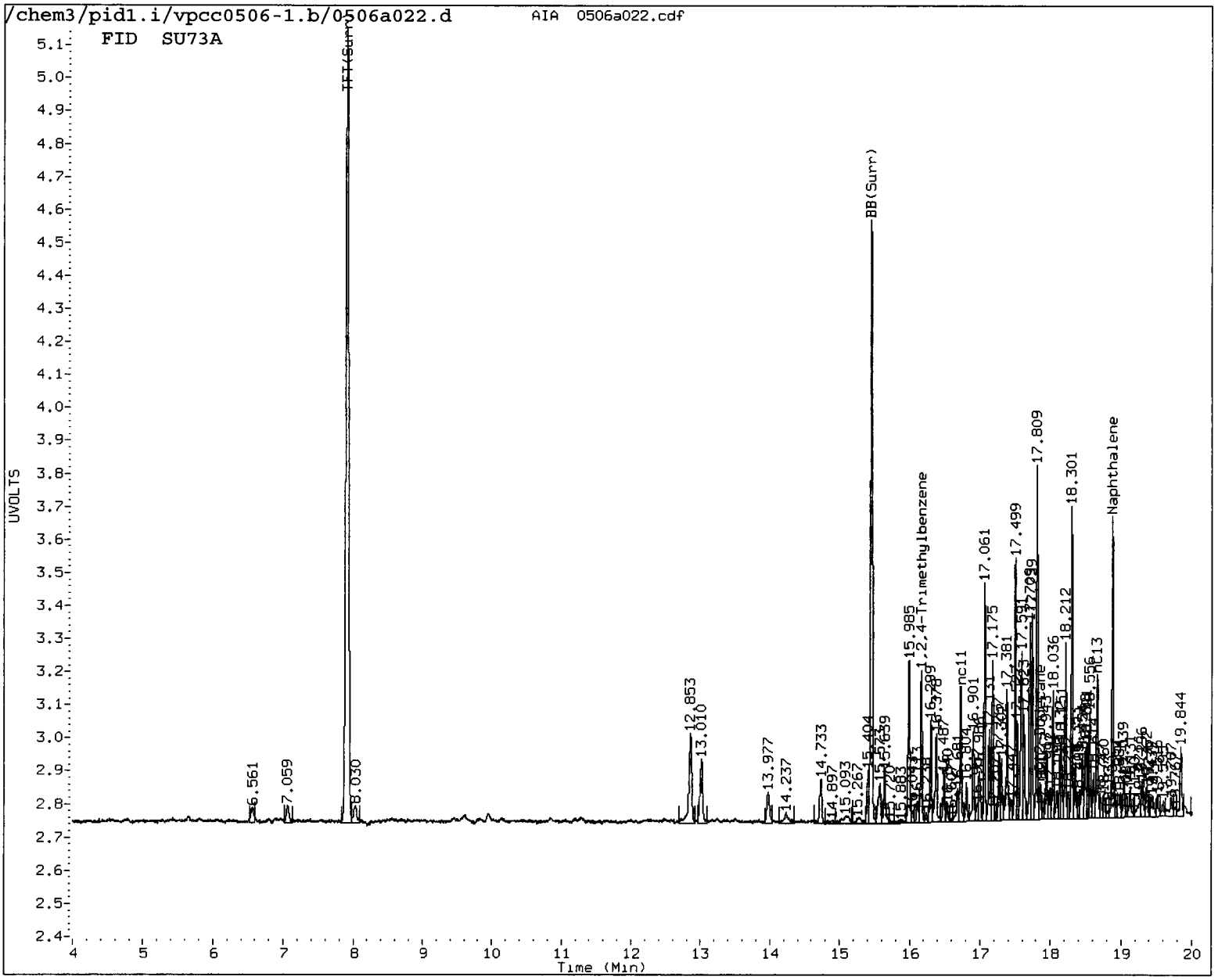
-O-Xylene (13.973)

BB(Surr) (15.450)

Min



MH
5/9/11



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a023.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a023.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU73B
Client ID: MW-01-042911-D
Injection Date: 06-MAY-2011 16:45
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.001	2521	34478	96.6	TFT(Surr)
15.450	0.001	1862	15769	98.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	91440	0.286 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	28542	0.044 M
AK101 nC6-nC10	(4.68 to 15.16)	527526	13709	0.026 M
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	134846	0.397 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.001	5238	93.6	TFT(Surr)
15.450	0.001	11476	96.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.056	-0.008	160	0.43	Benzene
ND	---	---	---	Toluene
12.852	0.001	734	2.52	Ethylbenzene
13.010	-0.003	589	1.83	M/P-Xylene
13.973	0.002	238	0.94	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a023.d

Date : 06-MAY-2011 16:45

Client ID: MW-01-042911-D

Sample Info: SU73B

Instrument: pid1.i

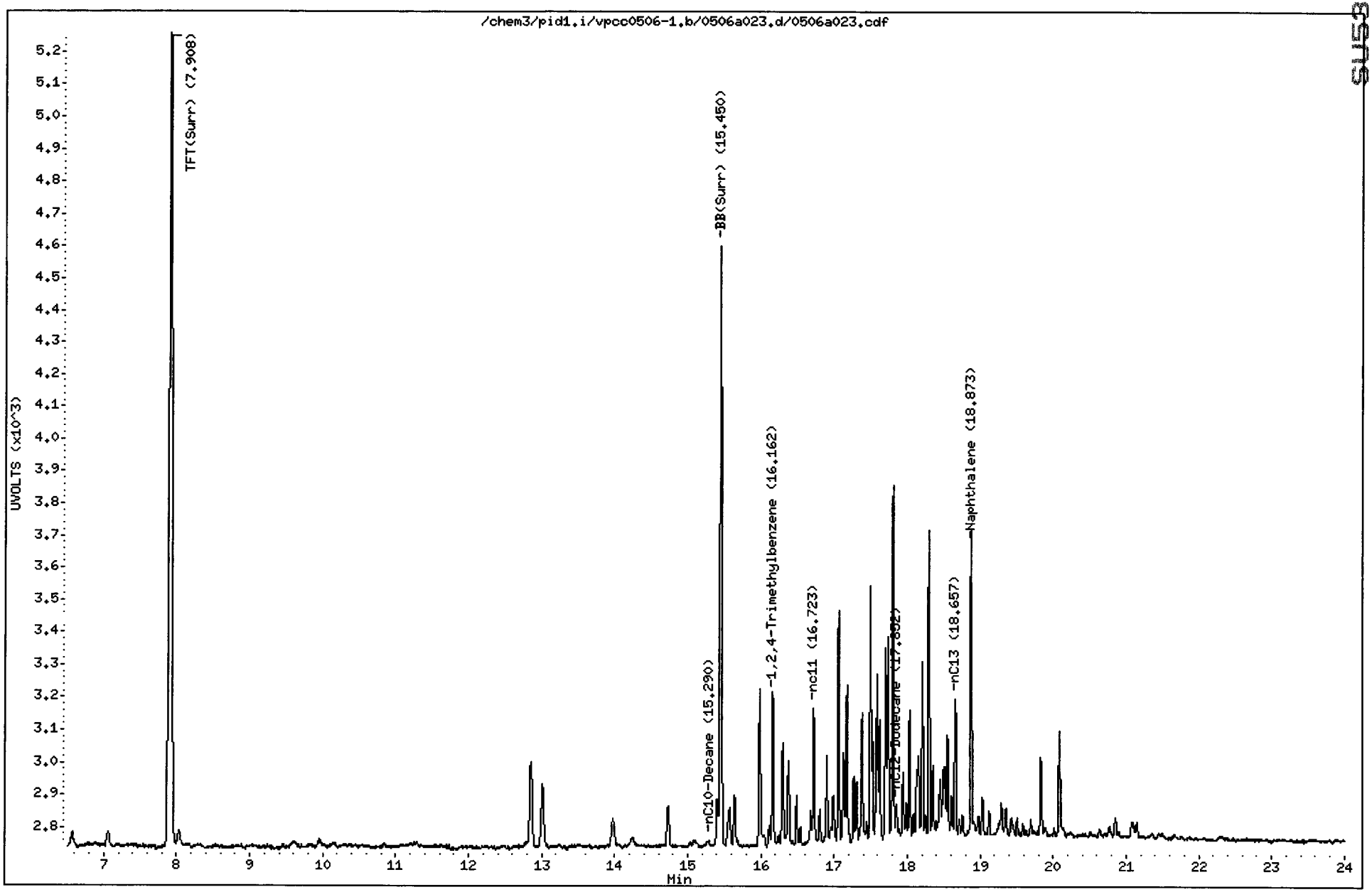
Operator: MH

Column phase: RTX 502-2 FID

Column diameter: 0.18

3752

SU73:01231



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a023.d

Date : 06-MAY-2011 16:45

Client ID: MW-01-042911-D

Sample Info: SU73B

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3753

SUSB 01232

/chem3/pid1.i/vpcc0506-2.b/0506a023.d/0506a023.cdf

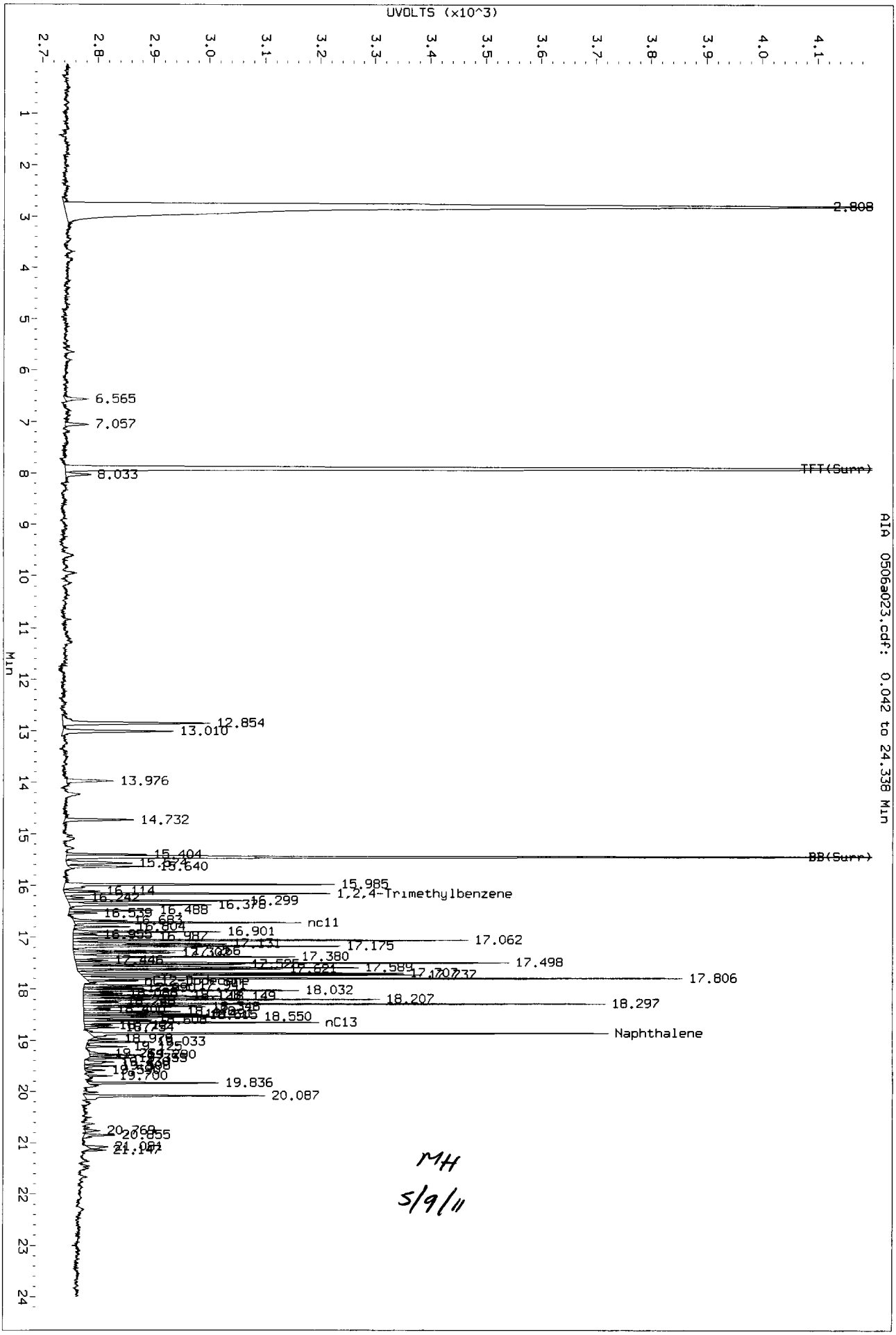
UVOLTS (x10^4)

1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3

-Benzene (7.056)
-TFT(Surr) (7.906)
-Ethylbenzene (12.852)
-M/P-Xylene (13.010)
-O-Xylene (13.973)
BB(Surr) (15.450)

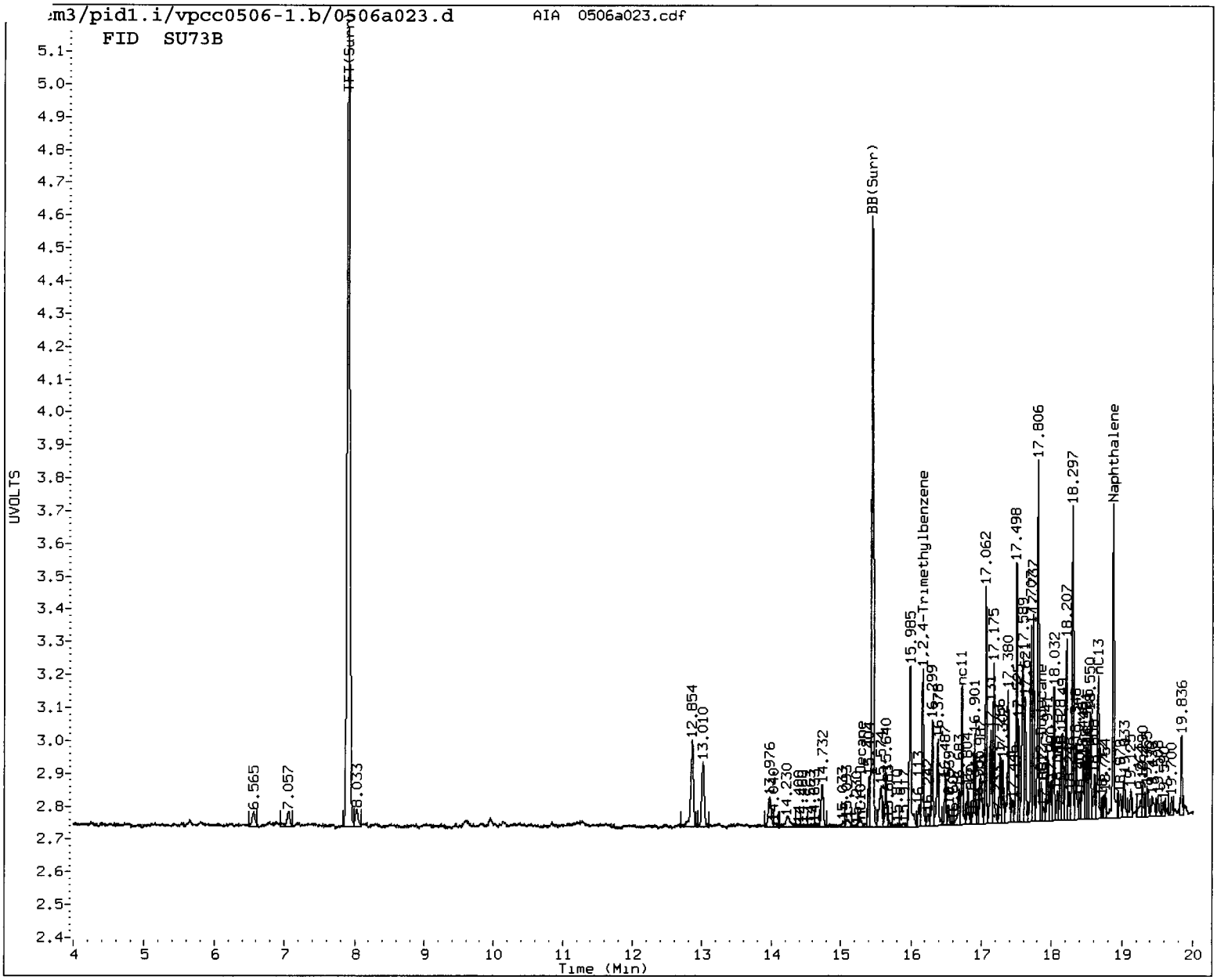
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Min



Data File: /chem3/pid1.i/vpcc0506-1.b/0506a023.d/0506a023.cdf
Injection Date: 06-MAY-2011 16:45
Instrument: pid1.i
Client Sample ID: MW-01-042911-D

MH
5/9/11



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a024.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a024.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU74A
Client ID: B312-042911
Injection Date: 06-MAY-2011 17:15
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.002	2540	34448	97.3	TFT(Surr)
15.452	0.002	1859	15430	98.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	247	0.001
8015B 2MP-TMB	(4.17 to 16.26)	652210	1	0.000
AK101 nC6-nC10	(4.68 to 15.16)	527526	0	0.000
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	1869	0.005

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.002	5308	94.8	TFT(Surr)
15.451	0.002	11574	97.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a024.d

Date : 06-MAY-2011 17:15

Client ID: B312-042911

Sample Info: SU74A

Column phase: RTX 502-2 FID

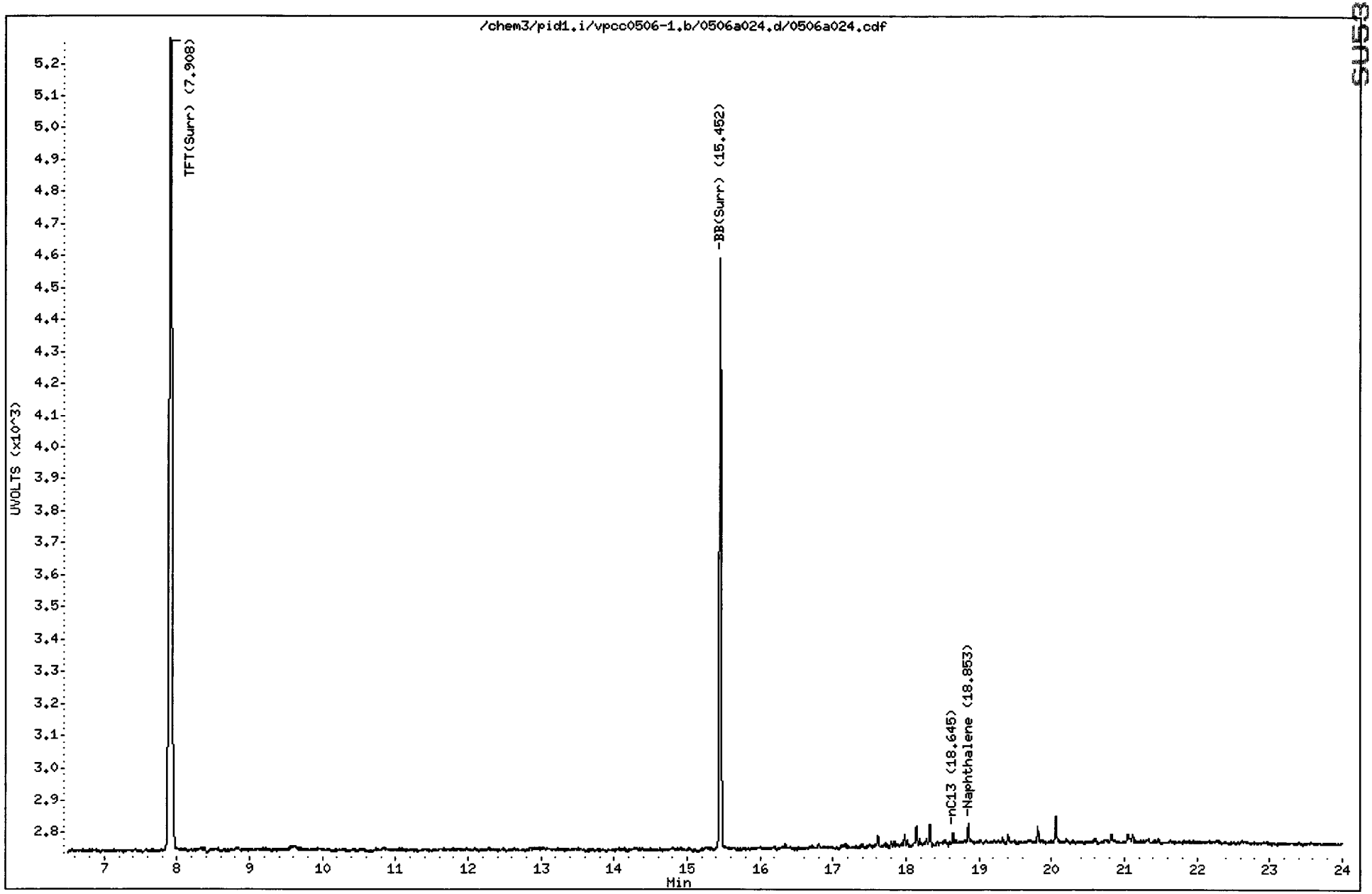
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3757

SU53 : 01236



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a024.d

Date : 06-MAY-2011 17:15

Client ID: B312-042911

Sample Info: SU74A

Column phase: RTX 502-2 PID

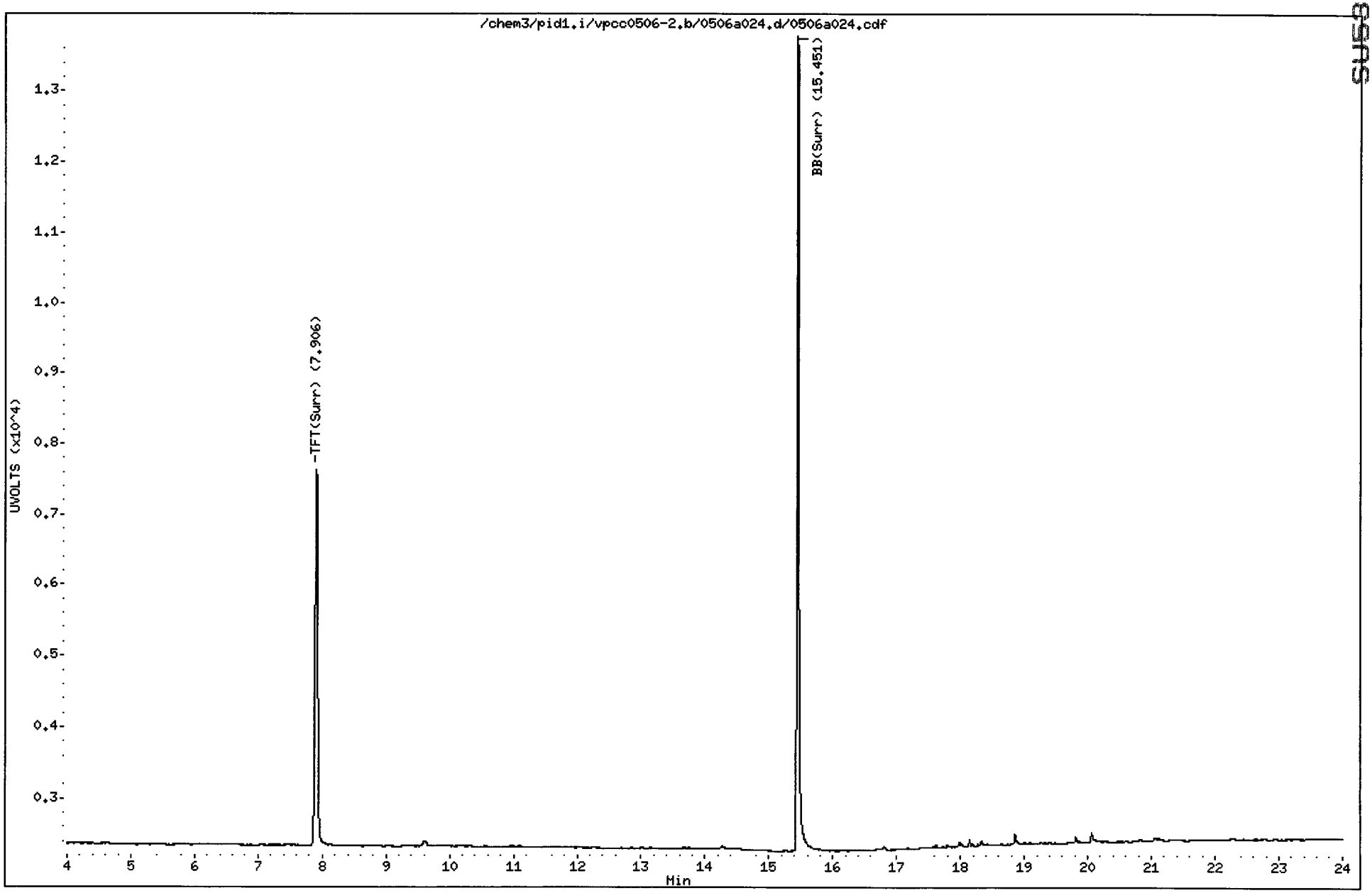
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3758

SUSS:01237



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a025.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a025.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU74B
Client ID: B310-042911
Injection Date: 06-MAY-2011 17:44
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.909	0.003	2510	34740	96.2	TFT(Surr)
15.452	0.002	1858	15598	98.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	153	0.000
8015B 2MP-TMB	(4.17 to 16.26)	652210	1	0.000
AK101 nC6-nC10	(4.68 to 15.16)	527526	0	0.000
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	424	0.001

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.907	0.003	5203	92.9	TFT(Surr)
15.451	0.002	11432	96.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a025.d

Date : 06-MAY-2011 17:44

Client ID: B310-042911

Sample Info: SU74B

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3760

SU53 : 01233

/chem3/pid1.i/vpcc0506-1.b/0506a025.d/0506a025.cdf

TFT(Surr) (7.909)

BB(Surr) (15.452)

UVOLTS (x10^3)

5.2
5.1
5.0
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Min

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a025.d

Date : 06-MAY-2011 17:44

Client ID: B310-042911

Sample Info: SU74B

Column phase: RTX 502-2 PID

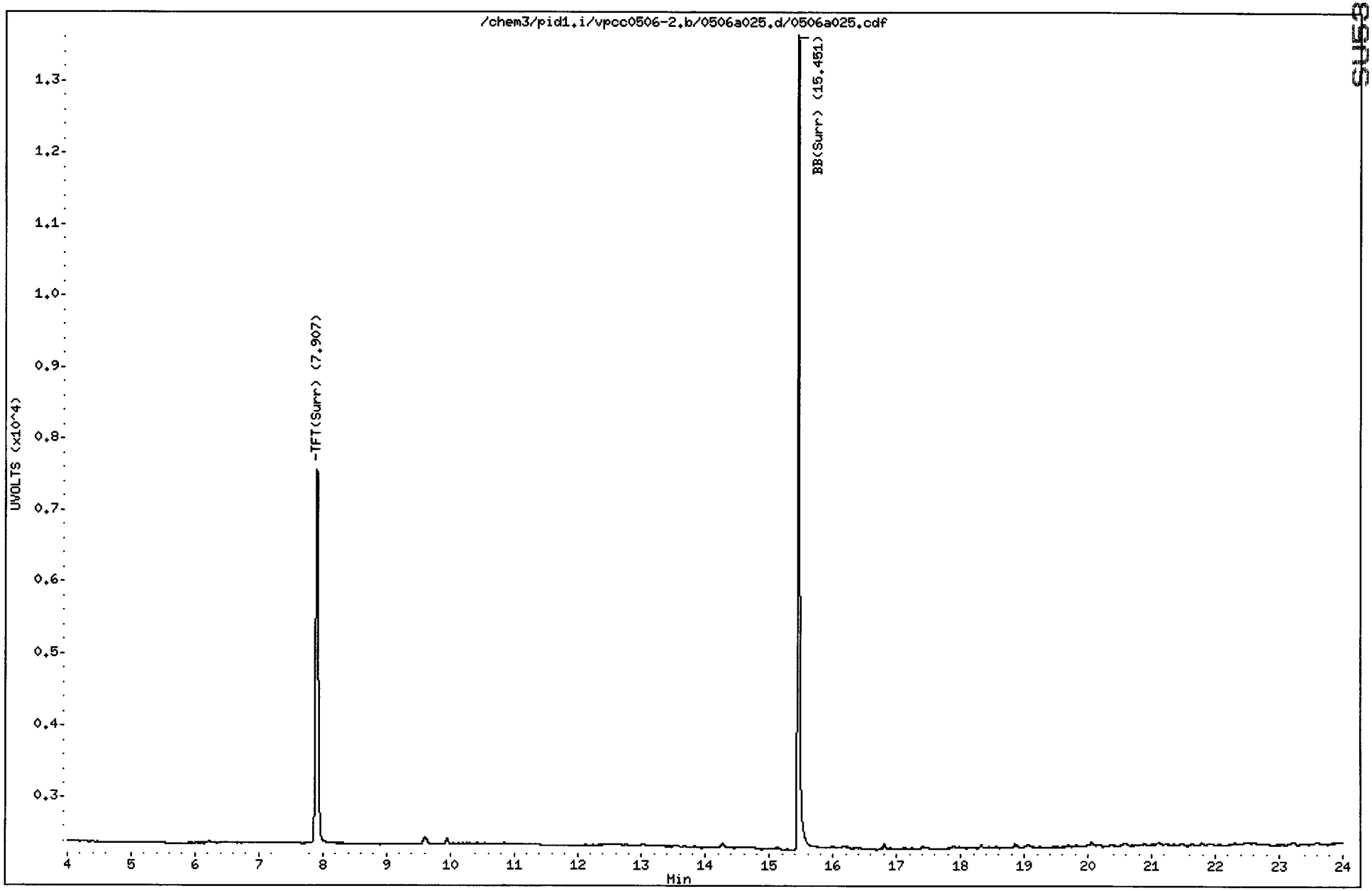
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3761

SU53 : 61240



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a026.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a026.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: SU74C
Client ID: B311-042911
Injection Date: 06-MAY-2011 18:13
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.909	0.003	2553	34790	97.8	TFT(Surr)
15.450	0.001	1842	15424	97.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	500	0.002
8015B 2MP-TMB	(4.17 to 16.26)	652210	668	0.001
AK101 nC6-nC10	(4.68 to 15.16)	527526	667	0.001
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	500	0.001

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.907	0.003	5372	96.0	TFT(Surr)
15.450	0.001	11429	96.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a026.d

Page 1

Date : 06-MAY-2011 18:13

Client ID: B311-042911

Instrument: pid1.i

Sample Info: SU74C

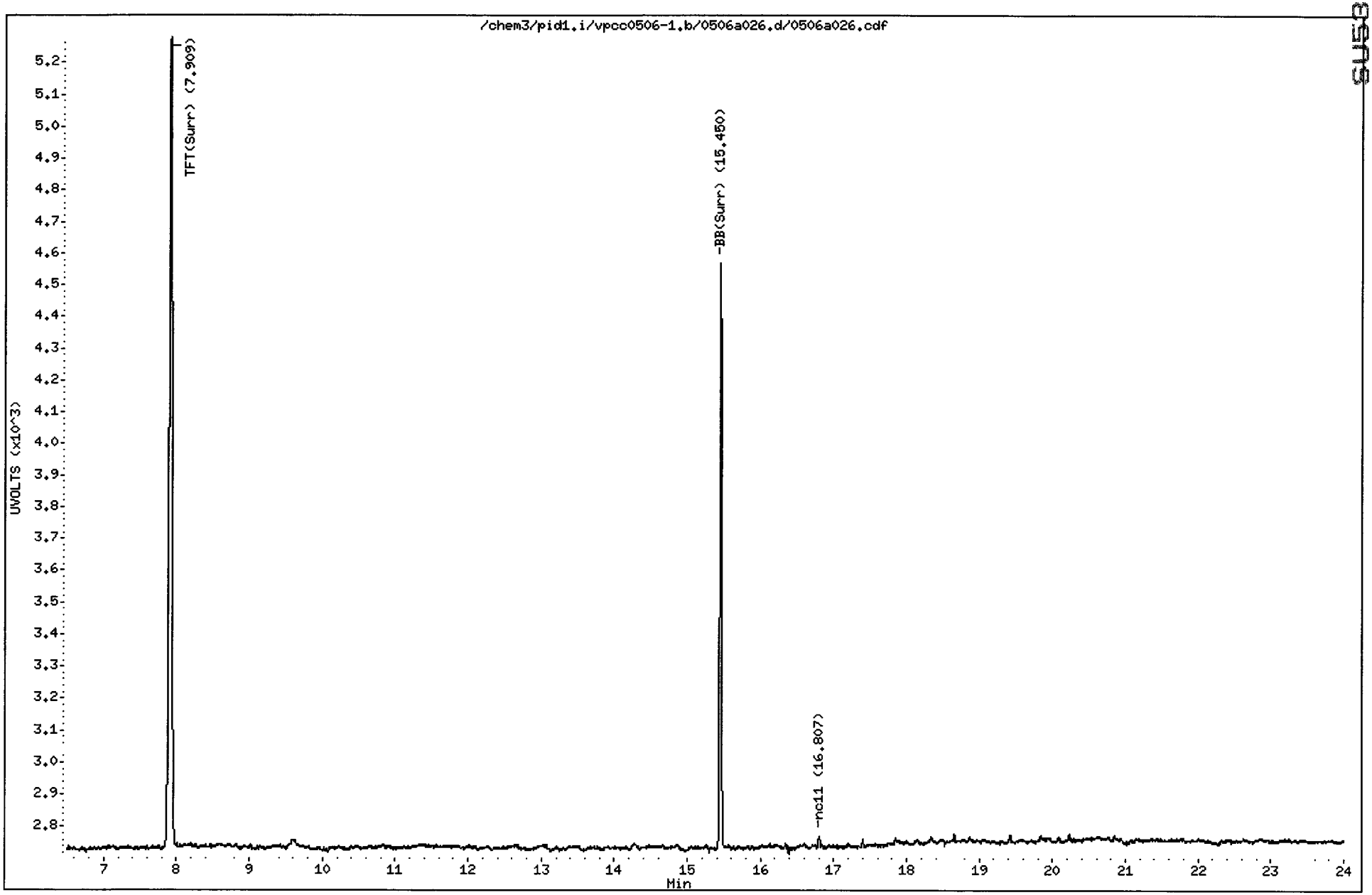
Operator: MH

Column phase: RTX 502-2 FID

Column diameter: 0.18

3763

SU58:01242



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a026.d

Date : 06-MAY-2011 18:13

Client ID: B311-042911

Sample Info: SU74C

Column phase: RTX 502-2 PID

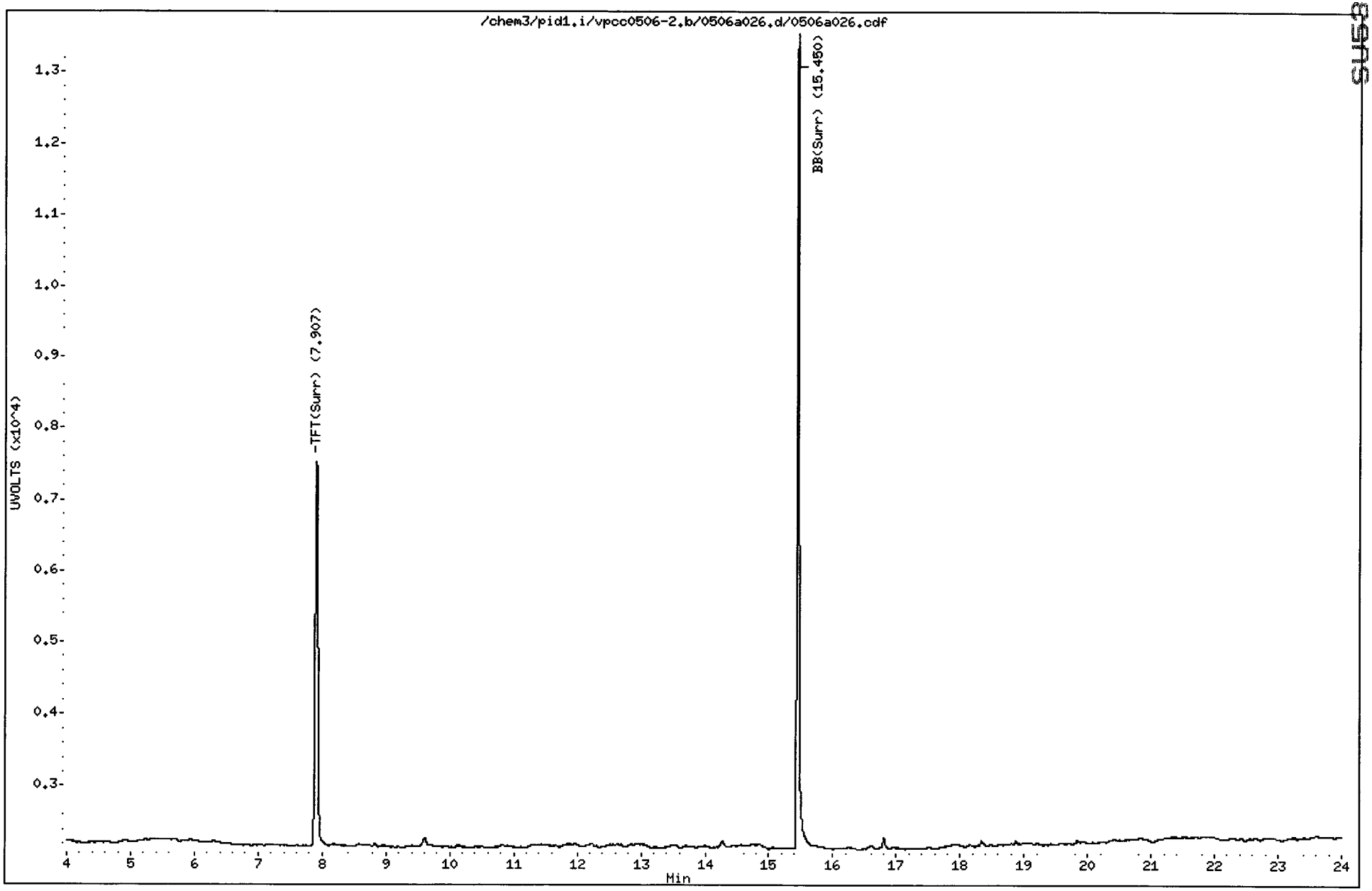
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3764

SU53 : 61213



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a028.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a028.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: BCAL 3
Client ID:
Injection Date: 06-MAY-2011 19:11
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.001	2403	32636	92.1	TFT(Surr)
15.451	0.001	1878	15465	99.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	210021	0.657
8015B 2MP-TMB	(4.17 to 16.26)	652210	202754	0.311
AK101 nC6-nC10	(4.68 to 15.16)	527526	193579	0.367
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	210298	0.618

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.002	5088	90.9	TFT(Surr)
15.451	0.002	11697	98.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.060	-0.003	8808	23.67	Benzene
9.950	0.002	7956	23.40	Toluene
12.853	0.003	7084	24.37	Ethylbenzene
13.016	0.003	15053	46.68	M/P-Xylene
13.973	0.002	6150	24.38	O-Xylene
4.537	-0.002	1922	16.67	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a028.d

Date : 06-MAY-2011 19:11

Client ID:

Sample Info: BCAL 3

Column phase: RTX 502-2 FID

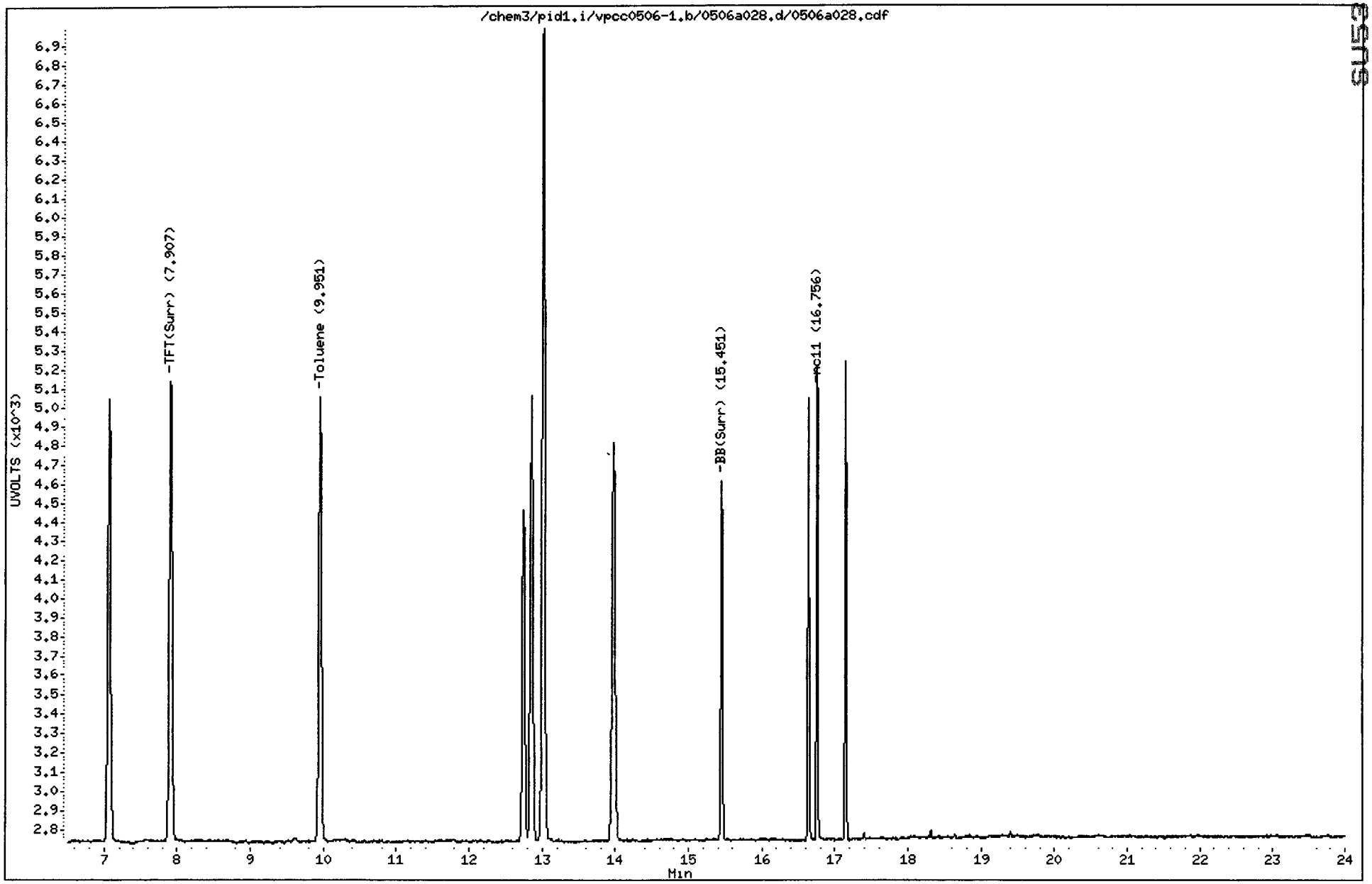
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

3766

SUSS 01215



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a028.d

Date : 06-MAY-2011 19:11

Client ID:

Sample Info: BCAL 3

Column phase: RTX 502-2 PID

Instrument: pid1.i

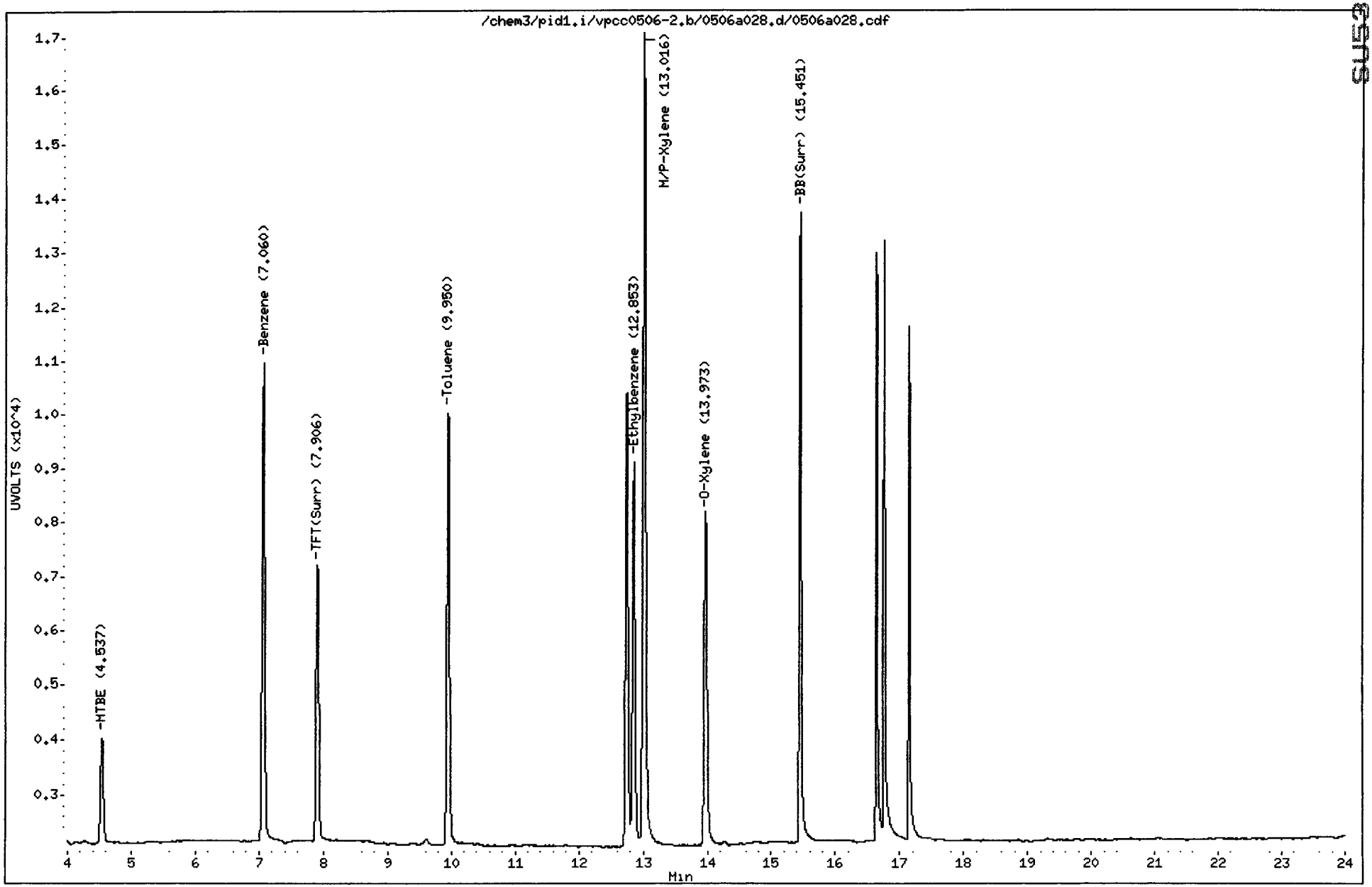
Operator: MH

Column diameter: 0.18

3767

SJS3:01216

/chem3/pid1.i/vpcc0506-2.b/0506a028.d/0506a028.cdf



MH 5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a029.d
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a029.d
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 05-MAY-2011
BETX Ical Date: 05-MAY-2011

ARI ID: GCAL 3
Client ID:
Injection Date: 06-MAY-2011 19:41
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.002	2638	45710	101.1	TFT(Surr)
15.451	0.001	1881	16863	99.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	319505	744514	2.330 M
8015B 2MP-TMB	(4.17 to 16.26)	652210	1442588	2.212 M
AK101 nC6-nC10	(4.68 to 15.16)	527526	1151000	2.182 M
NWTPHG Tol-Nap	(9.85 to 18.95)	340084	786908	2.314 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.907	0.003	5369	95.9	TFT(Surr)
15.452	0.002	11701	98.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.069	0.006	2978	8.00	Benzene
9.952	0.004	30478	89.63	Toluene
12.854	0.003	7758	26.69	Ethylbenzene
13.020	0.007	30638	95.00	M/P-Xylene
13.975	0.004	11088	43.95	O-Xylene
4.542	0.003	566	4.91	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a029.d

Page 1

Date : 06-MAY-2011 19:41

Client ID:

Instrument: pid1.i

Sample Info: GCAL 3

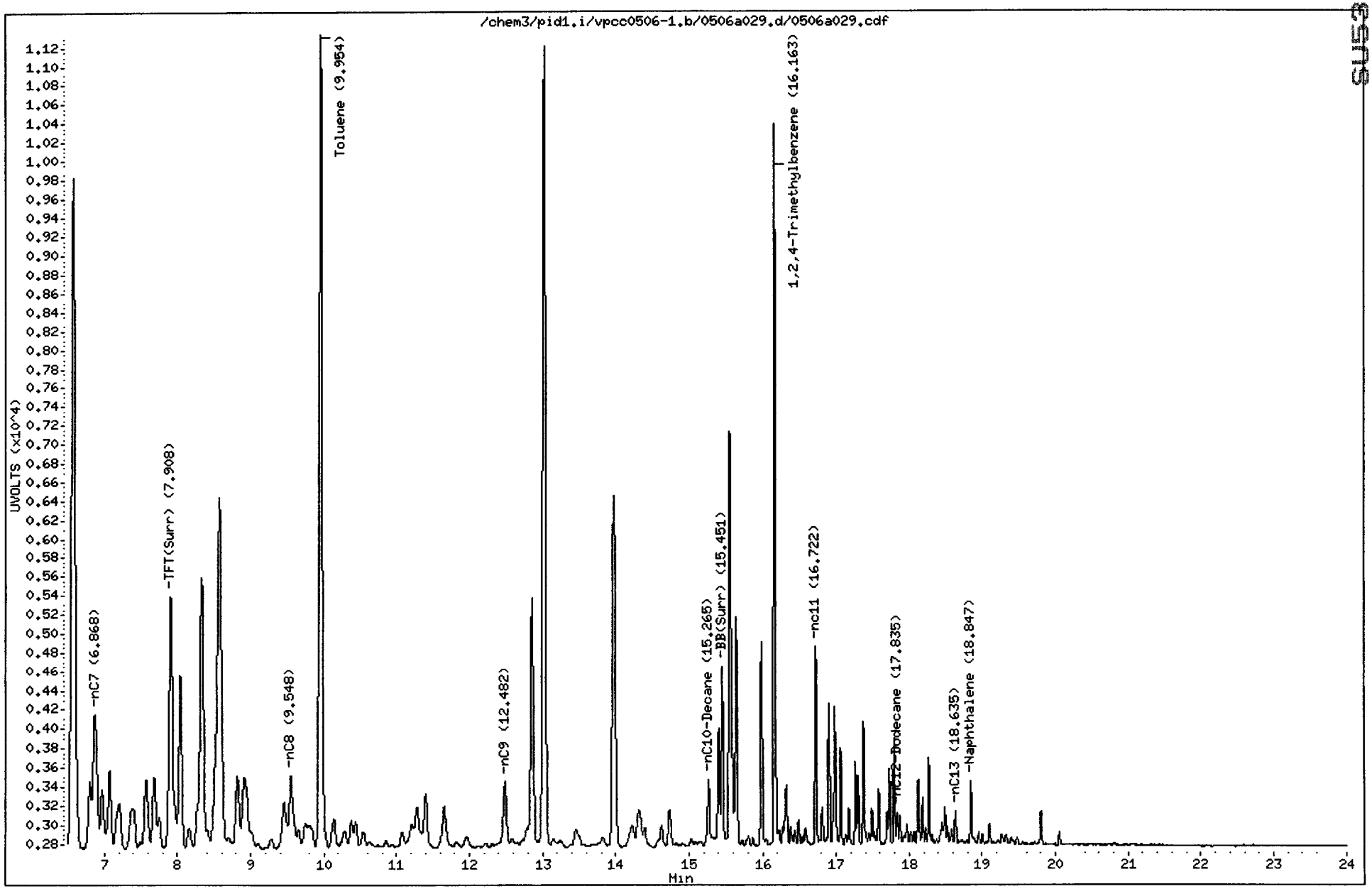
Operator: MH

Column phase: RTX 502-2 FID

Column diameter: 0.18

3769

GJS3 : 01218



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a029.d

Date : 06-MAY-2011 19:41

Client ID:

Sample Info: GCAL 3

Column phase: RTX 502-2 PID

Instrument: pid1.i

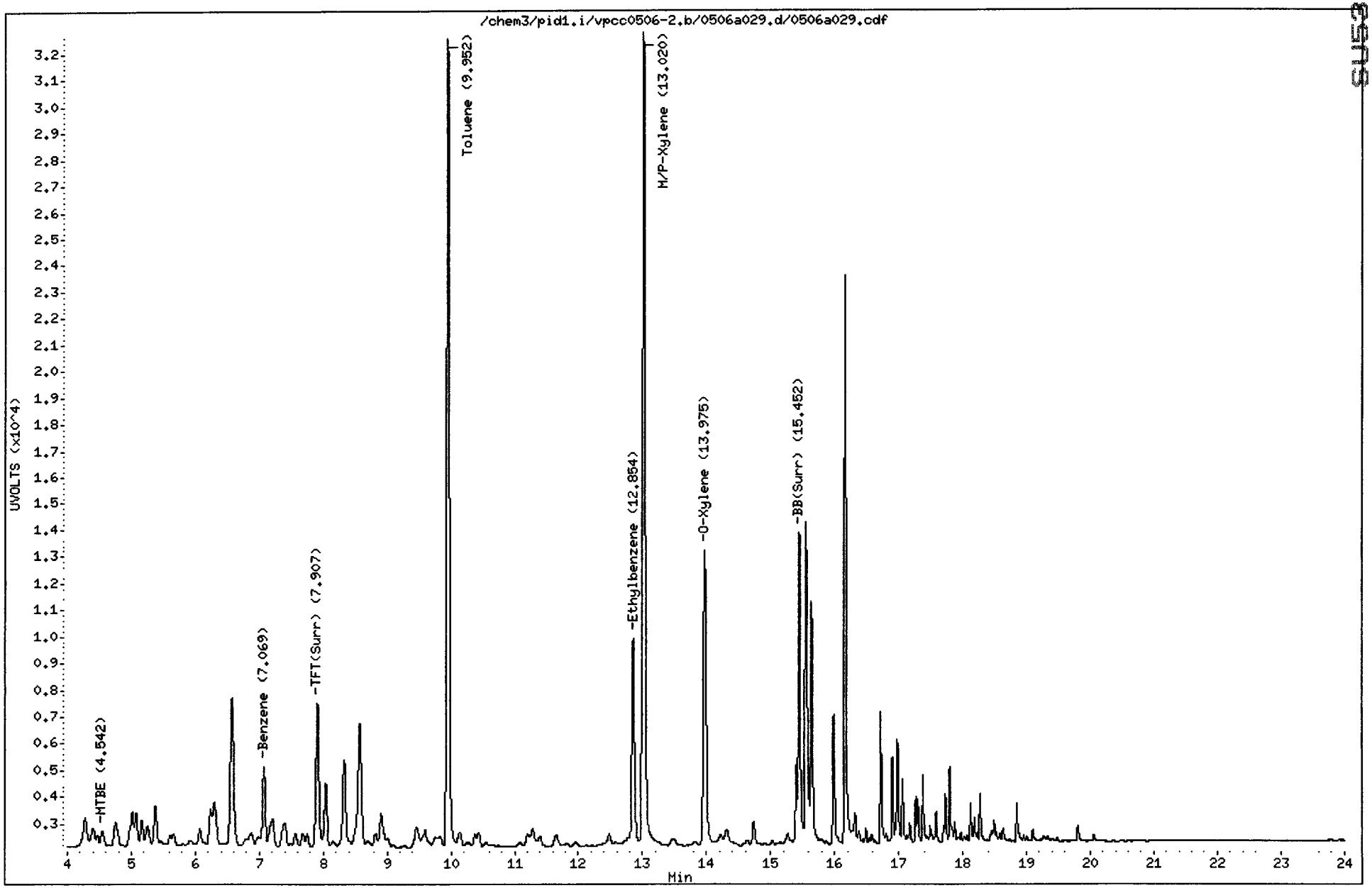
Operator: MH

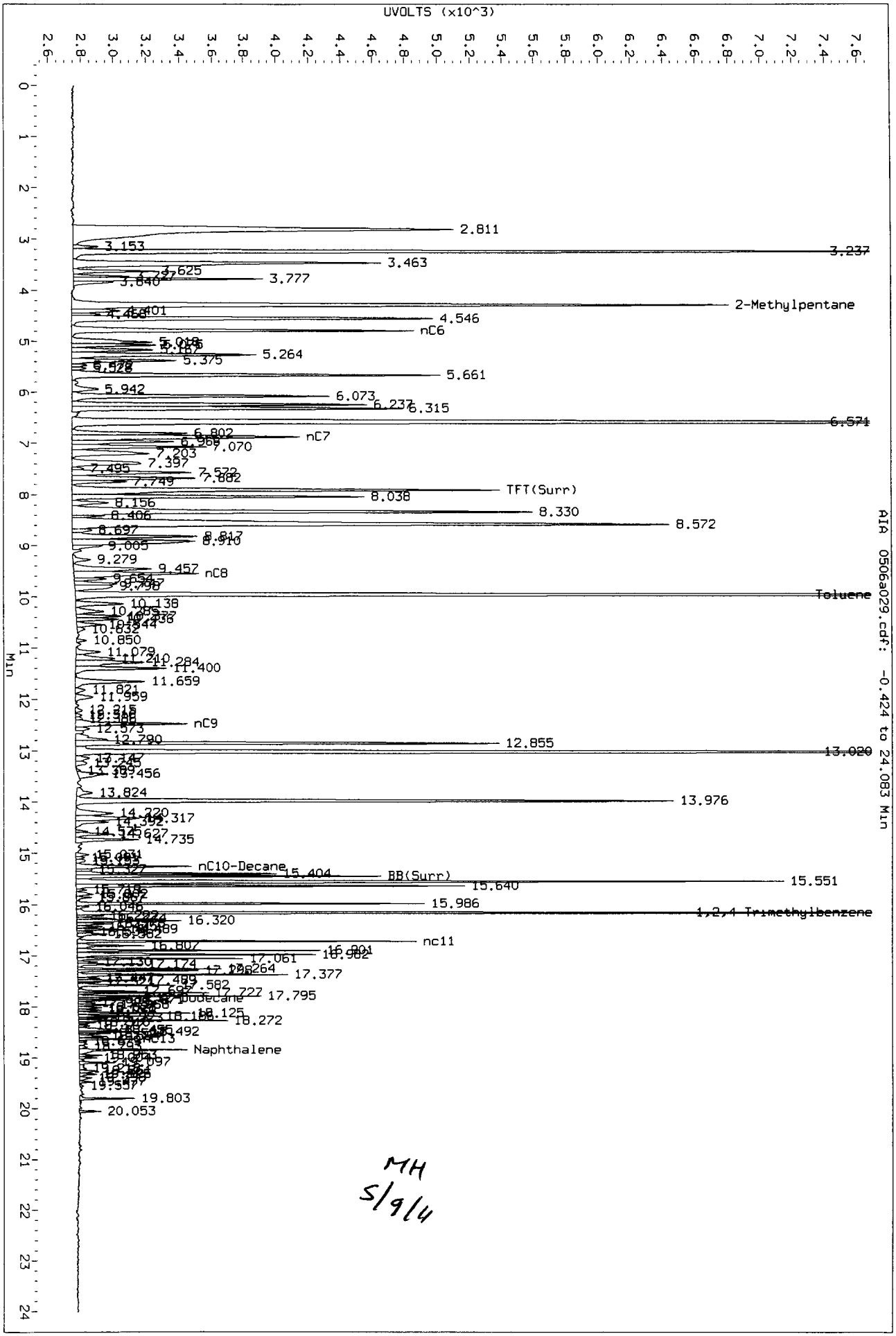
Column diameter: 0.18

3770

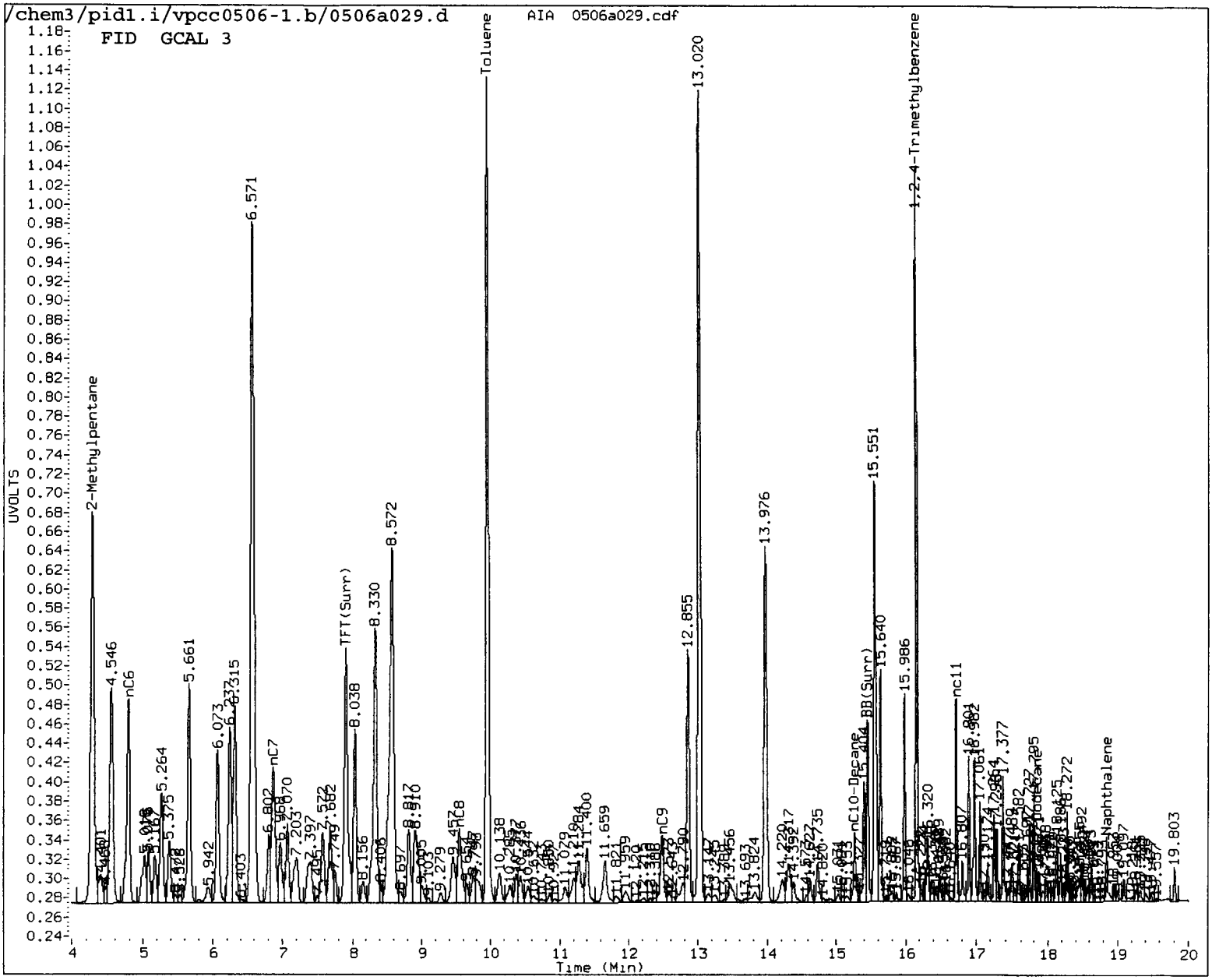
61219

/chem3/pid1.i/vpcc0506-2.b/0506a029.d/0506a029.cdf




UVOLTS (x10^3)
Min
2.811
3.153
3.237
3.463
3.625
3.777
2-Methylpentane
4.546
nC6
5.264
5.375
5.661
5.942
6.073
6.237
6.315
6.571
nC7
7.070
7.203
7.397
7.495
TFT(Surr)
8.038
8.156
8.330
8.406
8.572
8.697
8.817
8.910
9.005
9.279
9.457
nC8
Toluene
10.138
10.850
11.079
11.284
11.400
11.659
11.821
11.959
nC9
12.573
12.790
12.855
13.020
13.456
13.824
13.976
14.220
14.317
14.627
14.735
nC10-Decane
15.404
BB(Surr)
15.551
15.640
15.986
1,2,4 Trimethylbenzene
16.320
nc11
16.801
16.982
17.061
17.174
17.264
17.377
17.582
17.727
17.795
Dodecane
18.125
18.272
18.492
nC13
Naphthalene
19.097
19.803
20.053
AIA 0506a029.cdf: -0.424 to 24.083 Min
Data File: /chem3/pid1.i/vpcc0506-1.b/0506a029.d/0506a029.cdf
Injection Date: 06-MAY-2011 19:41
Instrument: pid1.i
Client Sample ID:

MH
5/9/11



MANUAL INTEGRATION

X 1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/9/11

Metals Raw Data
Preparation Bench Sheets and Notes

ARI Job ID: SU53, SU73, SU74

Analytical Resources,Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: KM

Date: 5/03/11

Final Volume 25

Final Volume (Hg):

Sample ID ST98 DSPK, MBISPK
SU53 ASPK, MBISPK

		Prepcode:		
		Spike Solution:	ICP Routine	ICP No GFA	GFA
		Standard No.:			
		Vol Added (mL):			
	Ag	50		2.0
S	Al	200	200	
T	As	200		10
O	Ba	200	200	
C	Be	50	50	
K	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
C	Cr	50	50	
O	Cu	50	50	
N	Fe	200	200	
C	K	1000	1000	
E	Mg	1000	1000	
N	Mn	50	50	
T	Na	1000	1000	
R	Ni	50	50	
A	Pb	200		10
T	Se	200		10
I	Sr	50	50	
O	Tl	200		10
N	V	50	50	
	Zn	50	50	

	REN		
	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
	2809-8		
	0.05		
Ag	25		
Al			500
As	25 ✓		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25 ✓		
Sb		25	
Se	80		
Tl	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

SU53 : 012553

3774

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: KM Date: 5/03/11

Matrix: Water Block ID: #12 Block Temp: 93°C Thermometer: MP24

ARI Sample ID	Btl #	pH<2	Prep Code: REN Initial Wt (g) Vol (mL)	Prep Code: REN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
SU47 A	9	✓	50.0	25.0			
" B	9	✓					
" MB1	—	✓					
" MB1SPK	—	✓					
SU47 C	1	—					Filtered in lab
" D	1	—					
" MB2	—	—					
" MB2SPK	—	—					
SU45 A	9	✓					
" B	9	✓					
" C	9	✓					
" MB1	—	✓					
" MB1SPK	—	✓					
" E	1	—					
" F	1	—					
" G	1	—					Filtered in lab
" MB2	—	—					
" MB2SPK	—	—					
SU53 A	3	—					
" ADUP	3	—					
" ASPK	3	—					
" C	3	—					
" E	3	—					
" MB1	—	—	↓	↓			
" MB1SPK	—	—	50.0	25.0			

Chemical/Reagent ID:

HNO_3: MP2088 HCl: — H_2O_2: I6129 Tube Lot #: 1010191

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: KM

Date: 5/05/11

Final Volume 25

Final Volume (Hg):

Sample ID SU73 ASPK, MBSPK

	Prepcode:			
	Spike Solution:	ICP Routine	ICP No GFA	GFA
	Standard No.:			
	Vol Added (mL):			
STOCK CONCENTRATION	Ag	50		2.0
	Al	200	200	
	As	200		10
	Ba	200	200	
	Be	50	50	
	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
	Cr	50	50	
	Cu	50	50	
	Fe	200	200	
	K	1000	1000	
	Mg	1000	1000	
	Mn	50	50	
	Na	1000	1000	
	Ni	50	50	
	Pb	200		10
	Se	200		10
	Sr	50	50	
	Tl	200		10
	V	50	50	
	Zn	50	50	

	REN		
	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
	2809-8		
	0.05		
Ag	25		
Al			500
As	25 ✓		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25 ✓		
Sb		25	
Se	80		
Tl	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

SU53 : 9125S

3776

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: KM

Date: 5/05/11

Matrix: Water Block ID: #12 Block Temp: 92°C Thermometer: MP24

ARI Sample ID	Btl #	pH<2	Prep Code: REN Initial Wt (g) Vol (mL)	Prep Code: REN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
SU73 A	9	✓	50.0	25.0			
" ADUP	9	✓					
" ASPK	9	✓					
" B	9	✓					- Batched
" MB1	—	✓					
" MB1SPK	—	✓					
SU74 A	9	✓					
" B	9	✓					
" C	9	✓					
SU88 A	2	✓					
" ADUP	2	✓					
" ASPK	2	✓					
" B	2	✓					
" C	2	✓					
" D	2	✓					
" E	2	✓					
" F	2	✓					
" G	2	✓					
" MB	—	✓					
" MBSPK	—	✓	50.0	25.0			
				KM	5/05/11		

Chemical/Reagent ID:

HNO_3: MP2088 HCl: — H_2O_2: I6129 Tube Lot #: 1010191

3777

SU53 . 01256

Metals Raw Data
Run Logs, Calibrations, and Raw Data

ARI Job ID: SU53, SU73, SU74

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.9.11 **Analyst:** BW **Page:** 1 **of** 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		Std 0			2828-15
		1			-4
		2			-5
		3			2829-5
		4			2828-7
		Rinse sample			Mo low
		ICV			2819-4
		ICB			Mo low
		CCV1			
		CCB1			Mo low
		low check			↓
		ICSA			
		ICSAB			
		LR200			
		LR300			
		CCV2			
		CCB2			Mo low
	✓	SU15 P	REW	2	Ni G.T. IRL diff -
	✓	↓ Pdup			Confirms 5.6
		SU13 E			As
		↓ K		↓	↓
		SU15 O		20	↓
		C		5	Cr
	✓	M		↓	As term 150

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.9.11 **Analyst:** BW **Page:** 2 **of** 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SU15 N	REN	5	As ferm 1/50
		E		50	
		F			
		CCV3			
		CCB3			Mo low
		SU59 MB1	SUN	20	
		MB1spk			
		SU13 D	REN	10	As
		J			
		L			
		F		20	
		SU15 G			
		SU59 Adup	SUN		
		A			
		Aspk			
		CCV4			
		CCB4			Mo low
		SU27 MB1	REN	2	
		MB2			
		MB2spk			
		MB1spk			
		A			
		B			
		C			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.9.11 **Analyst:** BLW **Page:** 3 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data-	ARI Sample ID	Prep Code	Dilution	Comments
		SU27 D	REN	2	
		↓ E	↓	↓	
		SU59 B	SUN	20	
		CCV 5			
		CCB5			Mo low
		SU53 MB1	REN	2	
		MB1spk		✓	
		Adup		✓	
		A			
		Aspk		✓	
		C			
		↓ E			
		SU45 A			
		↓ B			
		SU27 F	↓	↓	
		CCV6			
		CCB6			Mo low
		SU45 MB1	REN	2	
		MB2			
		MB2spk		✓	
		MB1spk		✓	
		C			
		E			
		↓ F	↓	↓	

3781

SU53 : 01260

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 5.9.11

	Analyst BWO 5.10	Peer JPG 5.10.11	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	see log
ICB/CCB	✓	✓	1
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	—	✓	

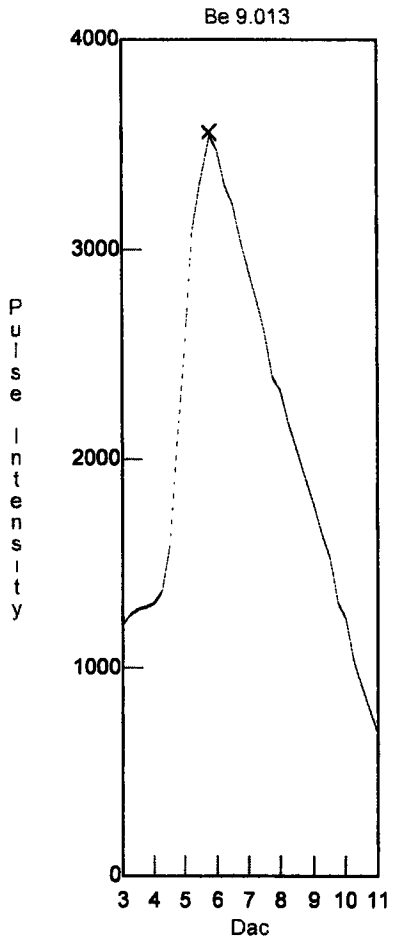
Instrument Tuning Report

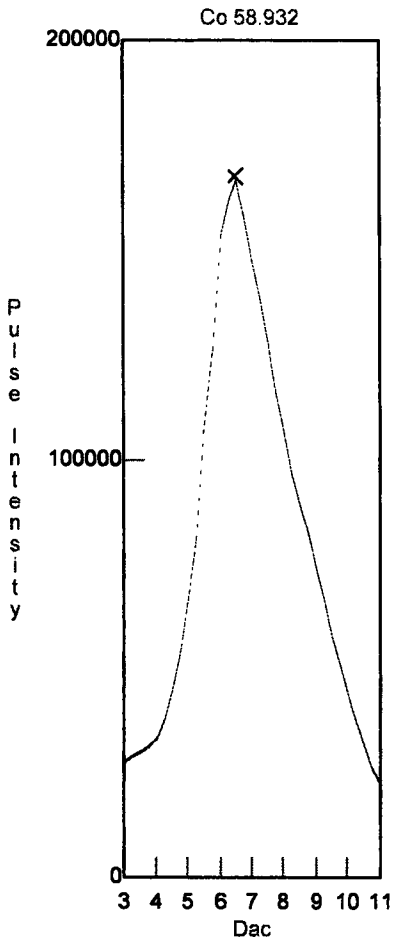
1st

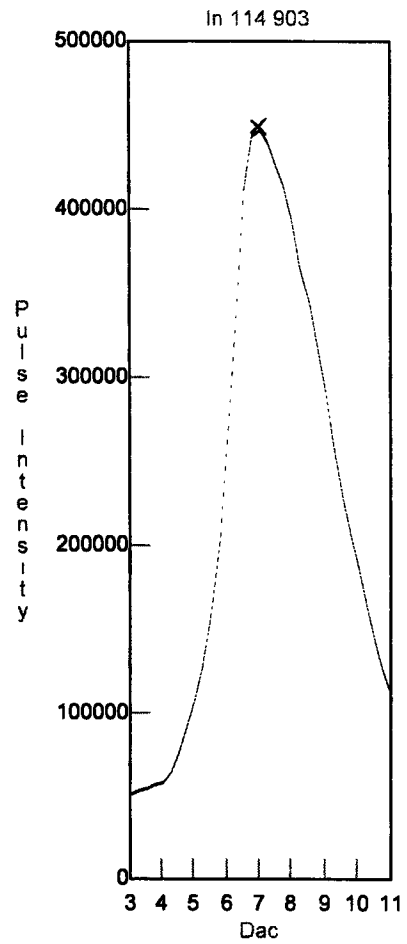
File Name: 2008.tun
File Path: c:\elandata\Tuning

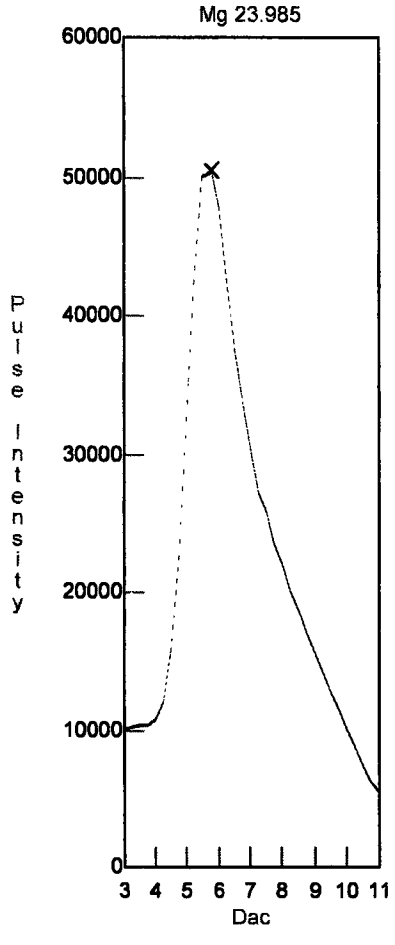
Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.026	2028	2168	0.710	
Mg	23.985	23.979	5652	2275	0.722	
Co	58.933	58.979	14152	2544	0.715	✓
In	114.904	114.928	27770	2995	0.698	
Pb	207.977	207.976	50420	3749	0.716	

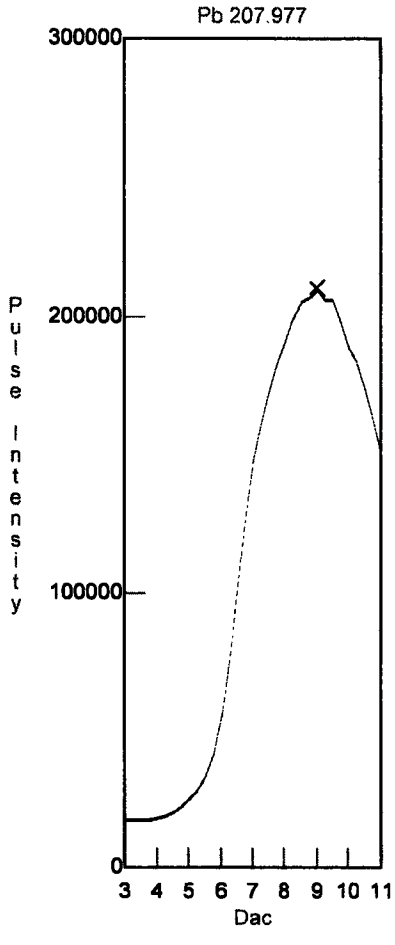
5-9-11

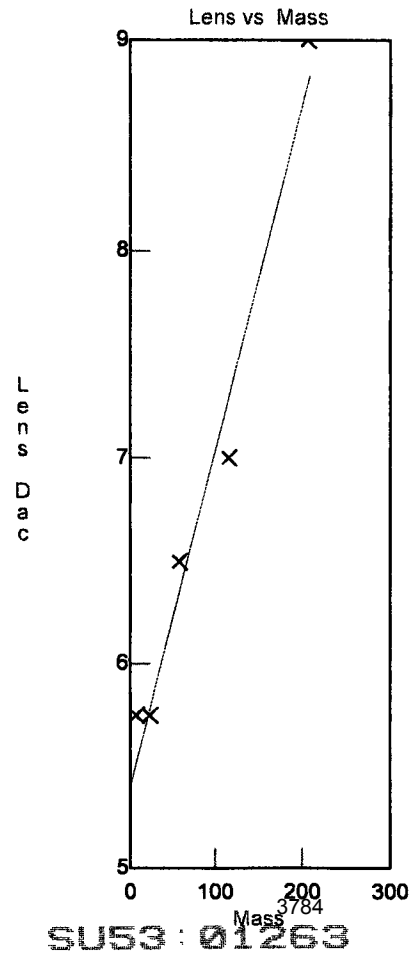












Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, May 09, 2011 11:19:47
Sample Description:
Sample File: 1120.sam
Method File: c:\elandata\Method\aridailyperf.mth
Dataset File: c:\elandata\Dataset\daily performance\Sample.7531
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Number of Replicates: 5
Dual Detector Mode: Pulse

web 6.96

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	50139.150	646.834	1.290
	In	115	419030.386	3416.468	0.815
	Pb	208	212404.395	1150.838	0.542
⌈>	Ba	138	302759.985	2427.238	0.802
⌊	Ba++	69	0.013	0.000	3.294
⌈>	Ce	140	360050.589	817.557	0.227
⌊	CeO	156	0.023	0.001	3.032
	Bkgd	220	4.750	3.792	79.820

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 11:39:21
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L				356289	1
[	Be	9		ug/L				3	78
	C	13		mg/L				4456	0
	Cl	37		mg/L				2690010	0
[>	Sc	45		ug/L				264393	0
|	V-1	51		ug/L				2140	3
|	V	51		ug/L				975	3
|	Cr	52		ug/L				6591	1
|	Cr	53		ug/L				372	4
|	Mn	55		ug/L				350	9
[	Co	59		ug/L				42	15
[>	Ge	72		ug/L				385276	0
|	Ni	60		ug/L				45	16
|	Ni	62		ug/L				62	6
|	Cu	63		ug/L				180	3
|	Cu	65		ug/L				100	13
|	Zn	66		ug/L				348	10
|	Zn	67		ug/L				70	13
|	Zn	68		ug/L				9052	1
|	As-1	75		ug/L				-30	98
|	As	75		ug/L				10544	0
|	Se	82		ug/L				0	1243
|	Se	78		ug/L				10737	0
[	Mo	98		ug/L				1921	24
	Y	89		ug/L				294548	1
	Kr	83		ug/L				77	0
[>	In	115		ug/L				417878	0
|	Ag	107		ug/L				26	11
|	Cd	111		ug/L				162	3
|	Cd	114		ug/L				14	15
|	Sb	121		ug/L				32	13
|	Sb	123		ug/L				25	16
|	Ba	135		ug/L				16	30
[	Ba	137		ug/L				21	23
[>	Tb	159		ug/L				395846	0
|	Tl	205		ug/L				25	15
|	Pb	208		ug/L				201	7
|	Bi	209		ug/L				342389	1
|	Th	232		ug/L				203	19
[	U	238		ug/L				20	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 11:47:08
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	345582	0
[	Be	9	10.000	ug/L	0.102	1	3	3995	1
	C	13		mg/L			4456	4631	1
	Cl	37		mg/L			2690010	2693463	0
[>	Sc	45		ug/L			264393	255434	0
|	V-1	51	10.000	ug/L	0.051	0	2140	120676	0
|	V	51	10.000	ug/L	0.045	0	975	122387	0
|	Cr	52	10.000	ug/L	0.125	1	6591	110104	0
|	Cr	53	10.000	ug/L	0.110	1	372	12988	0
|	Mn	55	10.000	ug/L	0.081	0	350	179100	0
[	Co	59	10.000	ug/L	0.115	1	42	138311	0
[>	Ge	72		ug/L			385276	375599	0
|	Ni	60	10.000	ug/L	0.079	0	45	29862	0
|	Ni	62	10.000	ug/L	0.218	2	62	4589	1
|	Cu	63	10.000	ug/L	0.027	0	180	70219	0
|	Cu	65	10.000	ug/L	0.078	0	100	33999	0
|	Zn	66	10.000	ug/L	0.073	0	348	22365	1
|	Zn	67	10.000	ug/L	0.122	1	70	3784	1
|	Zn	68	10.000	ug/L	0.222	2	9052	24743	1
|	As-1	75	10.000	ug/L	0.051	0	-30	19951	0
|	As	75	10.000	ug/L	0.037	0	10544	30525	0
|	Se	82	10.000	ug/L	0.078	0	0	1993	0
|	Se	78	10.000	ug/L	0.155	1	10737	15782	0
[	Mo	98	10.000	ug/L	0.098	0	1921	68696	1
	Y	89		ug/L			294548	284565	1
	Kr	83		ug/L			77	71	10
[>	In	115		ug/L			417878	401200	0
|	Ag	107	10.000	ug/L	0.049	0	26	131266	0
|	Cd	111	10.000	ug/L	0.140	1	162	32564	1
|	Cd	114	10.000	ug/L	0.067	0	14	76188	0
|	Sb	121	10.000	ug/L	0.040	0	32	114173	0
|	Sb	123	10.000	ug/L	0.104	1	25	86634	1
|	Ba	135	10.000	ug/L	0.066	0	16	25970	0
[	Ba	137	10.000	ug/L	0.107	1	21	43856	1
[>	Tb	159		ug/L			395846	384321	1
|	Tl	205	10.000	ug/L	0.108	1	25	280556	0
|	Pb	208	10.000	ug/L	0.140	1	201	391417	0
|	Bi	209		ug/L			342389	331487	0
|	Th	232	10.000	ug/L	0.062	0	203	505651	0
[	U	238	10.000	ug/L	0.174	1	20	535978	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 11:54:56
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	348173	1
	Be	9	19.996	ug/L	0.411	2	3	8037	1
	C	13		mg/L			4456	4598	0
	Cl	37		mg/L			2690010	2709634	0
>	Sc	45		ug/L			264393	255022	0
	V-1	51	20.042	ug/L	0.011	0	2140	241399	0
	V	51	20.031	ug/L	0.079	0	975	245321	0
	Cr	52	20.050	ug/L	0.230	1	6591	216118	1
	Cr	53	20.016	ug/L	0.108	0	372	25675	0
	Mn	55	19.979	ug/L	0.022	0	350	355407	0
	Co	59	20.017	ug/L	0.159	0	42	277358	0
>	Ge	72		ug/L			385276	374506	1
	Ni	60	20.033	ug/L	0.311	1	45	60002	1
	Ni	62	20.102	ug/L	0.393	1	62	9325	1
	Cu	63	20.009	ug/L	0.172	0	180	140168	0
	Cu	65	20.019	ug/L	0.132	0	100	68028	1
	Zn	66	20.057	ug/L	0.306	1	348	44897	1
	Zn	67	20.107	ug/L	0.245	1	70	7680	0
	Zn	68	20.031	ug/L	0.083	0	9052	40796	0
	As-1	75	20.048	ug/L	0.174	0	-30	40295	0
	As	75	20.022	ug/L	0.237	1	10544	50848	0
	Se	82	20.017	ug/L	0.057	0	0	3991	0
	Se	78	19.935	ug/L	0.424	2	10737	20865	0
	Mo	98	20.045	ug/L	0.082	0	1921	136635	0
	Y	89		ug/L			294548	283380	0
	Kr	83		ug/L			77	83	6
>	In	115		ug/L			417878	402781	0
	Ag	107	20.001	ug/L	0.208	1	26	263600	0
	Cd	111	19.996	ug/L	0.264	1	162	65159	0
	Cd	114	20.025	ug/L	0.051	0	14	153920	0
	Sb	121	20.045	ug/L	0.267	1	32	231819	0
	Sb	123	20.026	ug/L	0.137	0	25	175062	0
	Ba	135	19.996	ug/L	0.140	0	16	52077	0
	Ba	137	19.997	ug/L	0.250	1	21	87956	0
>	Tb	159		ug/L			395846	382605	0
	Tl	205	20.040	ug/L	0.060	0	25	564291	0
	Pb	208	20.042	ug/L	0.034	0	201	787407	0
	Bi	209		ug/L			342389	332927	0
	Th	232	20.057	ug/L	0.110	0	203	1021019	0
	U	238	20.067	ug/L	0.083	0	20	1085486	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 12:02:45
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			356289	351623	1
⌊	**Be**	**9**	**49.845**	ug/L	0.580	1	3	19920	0
	C	**13**		mg/L			4456	3338	2
	Cl	**37**		mg/L			2690010	2674414	0
⌈>	**Sc**	**45**		ug/L			264393	253586	0
|	**V-1**	**51**	**49.993**	ug/L	0.540	1	2140	595249	0
|	**V**	**51**	**49.974**	ug/L	0.594	1	975	605612	0
|	**Cr**	**52**	**49.979**	ug/L	0.716	1	6591	525130	0
|	**Cr**	**53**	**49.922**	ug/L	0.835	1	372	62653	0
|	**Mn**	**55**	**49.954**	ug/L	0.630	1	350	879082	0
⌊	**Co**	**59**	**49.923**	ug/L	0.748	1	42	682425	0
⌈>	**Ge**	**72**		ug/L			385276	370328	0
|	**Ni**	**60**	**49.871**	ug/L	0.418	0	45	145762	0
|	**Ni**	**62**	**49.862**	ug/L	0.341	0	62	22475	0
|	**Cu**	**63**	**49.921**	ug/L	0.195	0	180	342841	0
|	**Cu**	**65**	**49.851**	ug/L	0.264	0	100	164916	0
|	**Zn**	**66**	**49.877**	ug/L	0.437	0	348	108568	0
|	**Zn**	**67**	**49.865**	ug/L	0.392	0	70	18487	0
|	**Zn**	**68**	**49.801**	ug/L	0.272	0	9052	85824	0
|	**As-1**	**75**	**49.862**	ug/L	0.283	0	-30	97801	0
|	**As**	**75**	**49.862**	ug/L	0.229	0	10544	108756	0
|	**Se**	**82**	**49.881**	ug/L	0.178	0	0	9719	0
|	**Se**	**78**	**49.871**	ug/L	0.064	0	10737	35791	0
⌊	**Mo**	**98**	**50.138**	ug/L	0.293	0	1921	339843	0
	Y	**89**		ug/L			294548	280394	1
	Kr	**83**		ug/L			77	74	5
⌈>	**In**	**115**		ug/L			417878	402399	1
|	**Ag**	**107**	**49.858**	ug/L	0.130	0	26	647274	0
|	**Cd**	**111**	**49.908**	ug/L	0.174	0	162	160782	1
|	**Cd**	**114**	**49.987**	ug/L	0.543	1	14	383323	0
|	**Sb**	**121**	**49.924**	ug/L	0.659	1	32	572417	0
|	**Sb**	**123**	**49.896**	ug/L	0.575	1	25	431196	0
|	**Ba**	**135**	**50.040**	ug/L	0.912	1	16	130688	0
⌊	**Ba**	**137**	**50.020**	ug/L	0.658	1	21	220194	0
⌈>	**Tb**	**159**		ug/L			395846	384829	0
|	**Tl**	**205**	**49.916**	ug/L	0.181	0	25	1401802	0
|	**Pb**	**208**	**49.900**	ug/L	0.125	0	201	1951969	0
|	**Bi**	**209**		ug/L			342389	333275	0
|	**Th**	**232**	**50.528**	ug/L	0.392	0	203	2731166	0
⌊	**U**	**238**	**50.533**	ug/L	0.175	0	20	2903954	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 12:10:35
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	346625	0
[	Be	9	100.155	ug/L	1.873	1	3	39659	0
	C	13		mg/L			4456	4831	1
	Cl	37		mg/L			2690010	2720632	0
[>	Sc	45		ug/L			264393	258037	0
|	V-1	51	99.831	ug/L	0.569	0	2140	1200701	0
|	V	51	99.867	ug/L	0.868	0	975	1225133	0
|	Cr	52	99.661	ug/L	0.562	0	6591	1047416	0
|	Cr	53	99.785	ug/L	1.398	1	372	126171	0
|	Mn	55	99.463	ug/L	0.688	0	350	1749442	0
[	Co	59	99.664	ug/L	1.292	1	42	1370879	0
[>	Ge	72		ug/L			385276	374947	0
|	Ni	60	99.560	ug/L	1.383	1	45	290323	1
|	Ni	62	99.517	ug/L	0.341	0	62	44638	0
|	Cu	63	99.374	ug/L	1.084	1	180	676687	1
|	Cu	65	99.654	ug/L	0.419	0	100	329876	0
|	Zn	66	99.589	ug/L	0.180	0	348	216184	0
|	Zn	67	99.293	ug/L	0.578	0	70	36348	0
|	Zn	68	99.346	ug/L	1.126	1	9052	161254	0
|	As-1	75	99.896	ug/L	0.543	0	-30	197730	0
|	As	75	99.878	ug/L	0.517	0	10544	209461	0
|	Se	82	99.574	ug/L	0.434	0	0	19369	0
|	Se	78	99.524	ug/L	0.283	0	10737	61110	0
[	Mo	98	99.759	ug/L	0.932	0	1921	677333	0
	Y	89		ug/L			294548	280138	0
	Kr	83		ug/L			77	89	8
[>	In	115		ug/L			417878	403057	0
|	Ag	107	99.608	ug/L	0.260	0	26	1278533	0
|	Cd	111	99.858	ug/L	0.848	0	162	320551	0
|	Cd	114	99.853	ug/L	0.759	0	14	763238	0
|	Sb	121	100.072	ug/L	0.366	0	32	1152106	0
|	Sb	123	100.078	ug/L	0.508	0	25	868576	0
|	Ba	135	100.128	ug/L	0.723	0	16	263064	0
[	Ba	137	100.018	ug/L	0.492	0	21	441313	0
[>	Tb	159		ug/L			395846	382083	1
|	Tl	205	101.234	ug/L	0.625	0	25	2943713	0
|	Pb	208	100.530	ug/L	0.996	0	201	3974135	0
|	Bi	209		ug/L			342389	327146	0
|	Th	232	100.467	ug/L	1.088	1	203	5476464	0
[	U	238	100.306	ug/L	1.278	1	20	5781368	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 12:18:09
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	355802	1
	Be	9	0.009	ug/L	0.014	156	3	7	83
	C	13		mg/L			4456	4376	2
	Cl	37		mg/L			2690010	2823376	0
>	Sc	45		ug/L			264393	265288	1
	V-1	51	-0.004	ug/L	0.008	216	2140	2102	5
	V	51	0.000	ug/L	0.004	1345	975	983	5
	Cr	52	-0.019	ug/L	0.019	100	6591	6412	1
	Cr	53	-0.005	ug/L	0.017	325	372	366	5
	Mn	55	0.010	ug/L	0.001	13	350	531	5
	Co	59	0.009	ug/L	0.002	25	42	172	19
>	Ge	72		ug/L			385276	388495	0
	Ni	60	0.005	ug/L	0.003	62	45	61	16
	Ni	62	-0.016	ug/L	0.016	98	62	55	13
	Cu	63	0.009	ug/L	0.001	13	180	247	3
	Cu	65	0.009	ug/L	0.004	45	100	131	10
	Zn	66	-0.060	ug/L	0.008	13	348	217	8
	Zn	67	-0.031	ug/L	0.010	31	70	59	6
	Zn	68	-0.318	ug/L	0.097	30	9052	8622	1
	As-1	75	0.026	ug/L	0.009	36	-30	21	89
	As	75	-0.074	ug/L	0.060	80	10544	10478	0
	Se	82	0.019	ug/L	0.009	49	0	4	42
	Se	78	-0.375	ug/L	0.237	63	10737	10628	0
	Mo	98	-0.229	ug/L	0.005	2	1921	332	10
	Y	89		ug/L			294548	291292	1
	Kr	83		ug/L			77	77	1
>	In	115		ug/L			417878	417811	0
	Ag	107	0.020	ug/L	0.004	20	26	286	17
	Cd	111	0.017	ug/L	0.002	12	162	217	2
	Cd	114	0.008	ug/L	0.003	45	14	75	35
	Sb	121	0.056	ug/L	0.007	12	32	700	11
	Sb	123	0.058	ug/L	0.015	26	25	543	24
	Ba	135	0.012	ug/L	0.004	29	16	48	19
	Ba	137	0.009	ug/L	0.002	22	21	64	14
>	Tb	159		ug/L			395846	389005	0
	Tl	205	0.010	ug/L	0.002	20	25	333	19
	Pb	208	0.011	ug/L	0.003	26	201	635	18
	Bi	209		ug/L			342389	343840	0
	Th	232	0.049	ug/L	0.002	3	203	2942	3
	U	238	0.010	ug/L	0.002	21	20	620	20

Quantitative Analysis - Calibration Report

Sample Date/Time: Monday, May 09, 2011 12:10:35
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

Analyte	Mass	r Corr Coeff	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	1.0000	0.0011	10	20	50	100	
C	13							
Cl	37							
Sc	45							
V-1	51	1.0000	0.0465	10	20	50	100	
V	51	1.0000	0.0475	10	20	50	100	
Cr	52	1.0000	0.0405	10	20	50	100	
Cr	53	1.0000	0.0049	10	20	50	100	
Mn	55	1.0000	0.0682	10	20	50	100	
Co	59	1.0000	0.0533	10	20	50	100	
Ge	72							
Ni	60	1.0000	0.0078	10	20	50	100	
Ni	62	1.0000	0.0012	10	20	50	100	
Cu	63	0.9999	0.0182	10	20	50	100	
Cu	65	1.0000	0.0088	10	20	50	100	
Zn	66	1.0000	0.0058	10	20	50	100	
Zn	67	0.9999	0.0010	10	20	50	100	
Zn	68	0.9999	0.0041	10	20	50	100	
As-1	75	1.0000	0.0053	10	20	50	100	
As	75	1.0000	0.0053	10	20	50	100	
Se	82	1.0000	0.0005	10	20	50	100	
Se	78	1.0000	0.0014	10	20	50	100	
Mo	98	1.0000	0.0181	10	20	50	100	
Y	89							
Kr	83							
In	115							
Ag	107	1.0000	0.0318	10	20	50	100	
Cd	111	1.0000	0.0080	10	20	50	100	
Cd	114	1.0000	0.0190	10	20	50	100	
Sb	121	1.0000	0.0286	10	20	50	100	
Sb	123	1.0000	0.0215	10	20	50	100	
Ba	135	1.0000	0.0065	10	20	50	100	
Ba	137	1.0000	0.0109	10	20	50	100	
Tb	159							
Tl	205	0.9997	0.0761	10	20	50	100	
Pb	208	1.0000	0.1035	10	20	50	100	
Bi	209							
Th	232	0.9999	0.1427	10	20	50	100	
U	238	0.9999	0.1509	10	20	50	100	

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 12:25:23
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	349429	0
[	Be	9	50.878	ug/L	0.487	0	3	20313	1
	C	13		mg/L			4456	7028	0
	Cl	37		mg/L			2690010	2769554	0
[>	Sc	45		ug/L			264393	259708	0
[	V-1	51	49.851	ug/L	0.408	0	2140	604536	1
[	V	51	49.750	ug/L	0.133	0	975	614782	0
[	Cr	52	50.173	ug/L	0.186	0	6591	533954	0
[	Cr	53	49.840	ug/L	0.693	1	372	63613	1
[	Mn	55	50.136	ug/L	0.083	0	350	887754	0
[	Co	59	50.830	ug/L	0.496	0	42	703787	1
[>	Ge	72		ug/L			385276	379442	0
[	Ni	60	50.666	ug/L	0.177	0	45	149540	0
[	Ni	62	50.122	ug/L	1.297	2	62	22781	2
[	Cu	63	50.555	ug/L	0.087	0	180	348476	0
[	Cu	65	50.442	ug/L	0.193	0	100	169024	0
[	Zn	66	49.898	ug/L	0.106	0	348	109786	0
[	Zn	67	50.356	ug/L	0.842	1	70	18688	1
[	Zn	68	49.965	ug/L	0.466	0	9052	86505	0
[	As-1	75	49.864	ug/L	0.463	0	-30	99864	0
[	As	75	50.001	ug/L	0.295	0	10544	111302	0
[	Se	82	78.490	ug/L	0.952	1	0	15450	0
[	Se	78	78.181	ug/L	0.278	0	10737	50847	0
[	Mo	98	49.096	ug/L	0.447	0	1921	338304	0
	Y	89		ug/L			294548	283405	0
	Kr	83		ug/L			77	82	11
[>	In	115		ug/L			417878	408361	0
[	Ag	107	49.124	ug/L	0.585	1	26	638831	0
[	Cd	111	49.680	ug/L	0.185	0	162	161656	0
[	Cd	114	49.454	ug/L	0.102	0	14	382993	0
[	Sb	121	49.398	ug/L	0.336	0	32	576203	0
[	Sb	123	49.527	ug/L	0.443	0	25	435512	0
[	Ba	135	49.354	ug/L	0.412	0	16	131383	0
[	Ba	137	49.755	ug/L	0.801	1	21	222423	1
[>	Tb	159		ug/L			395846	383624	0
[	Tl	205	48.446	ug/L	0.377	0	25	1414457	0
[	Pb	208	49.273	ug/L	0.278	0	201	1955910	0
[	Bi	209		ug/L			342389	335821	1
[	Th	232	51.198	ug/L	0.254	0	203	2802390	0
[	U	238	49.550	ug/L	0.305	0	20	2867723	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 12:32:38
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	370126	0
[	Be	9	-0.001	ug/L	0.007	520	3	2	98
	C	13		mg/L			4456	4374	1
	Cl	37		mg/L			2690010	2741987	0
[>	Sc	45		ug/L			264393	265925	1
|	V-1	51	0.016	ug/L	0.005	30	2140	2354	2
|	V	51	-0.010	ug/L	0.003	31	975	849	5
|	Cr	52	0.013	ug/L	0.019	148	6591	6766	2
|	Cr	53	-0.070	ug/L	0.008	11	372	283	3
|	Mn	55	0.006	ug/L	0.001	17	350	457	3
[	Co	59	0.006	ug/L	0.001	10	42	125	7
[>	Ge	72		ug/L			385276	383213	0
|	Ni	60	0.002	ug/L	0.001	50	45	49	5
|	Ni	62	-0.002	ug/L	0.030	1422	62	61	23
|	Cu	63	0.003	ug/L	0.003	86	180	200	9
|	Cu	65	0.004	ug/L	0.002	43	100	114	5
|	Zn	66	-0.072	ug/L	0.008	11	348	187	10
|	Zn	67	-0.039	ug/L	0.025	64	70	55	17
|	Zn	68	-0.164	ug/L	0.105	63	9052	8745	0
|	As-1	75	-0.004	ug/L	0.005	126	-30	-39	28
|	As	75	0.018	ug/L	0.016	89	10544	10524	0
|	Se	82	-0.022	ug/L	0.058	260	0	-3	301
|	Se	78	0.074	ug/L	0.060	81	10737	10717	0
[	Mo	98	-0.247	ug/L	0.001	0	1921	201	2
	Y	89		ug/L			294548	293316	0
	Kr	83		ug/L			77	78	9
[>	In	115		ug/L			417878	422860	1
|	Ag	107	0.014	ug/L	0.003	24	26	212	21
|	Cd	111	0.013	ug/L	0.005	42	162	206	9
|	Cd	114	0.005	ug/L	0.002	47	14	52	33
|	Sb	121	0.021	ug/L	0.002	10	32	291	10
|	Sb	123	0.023	ug/L	0.003	15	25	234	14
|	Ba	135	0.003	ug/L	0.002	77	16	25	26
[	Ba	137	0.002	ug/L	0.001	28	21	32	10
[>	Tb	159		ug/L			395846	403967	0
|	Tl	205	0.007	ug/L	0.001	14	25	235	13
|	Pb	208	0.006	ug/L	0.001	8	201	472	5
|	Bi	209		ug/L			342389	350057	0
|	Th	232	0.029	ug/L	0.000	0	203	1885	1
[	U	238	0.006	ug/L	0.001	15	20	405	14

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 12:39:51
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			356289	330022	0
⌊	Be	9	50.012	ug/L	0.696	1	3	18858	1
	C	13		mg/L			4456	3372	0
	Cl	37		mg/L			2690010	2708935	0
⌈>	Sc	45		ug/L			264393	240124	1
|	V-1	51	50.589	ug/L	0.490	0	2140	567152	0
|	V	51	50.560	ug/L	0.618	1	975	577607	0
|	Cr	52	50.345	ug/L	0.194	0	6591	495350	0
|	Cr	53	50.270	ug/L	0.641	1	372	59317	0
|	Mn	55	50.218	ug/L	0.571	1	350	822084	0
⌊	Co	59	50.438	ug/L	0.533	1	42	645638	0
⌈>	Ge	72		ug/L			385276	352318	0
|	Ni	60	50.568	ug/L	0.174	0	45	138586	0
|	Ni	62	50.096	ug/L	0.359	0	62	21142	0
|	Cu	63	51.123	ug/L	0.061	0	180	327196	0
|	Cu	65	50.155	ug/L	0.553	1	100	156045	0
|	Zn	66	50.304	ug/L	0.559	1	348	102762	0
|	Zn	67	51.078	ug/L	0.084	0	70	17600	0
|	Zn	68	51.037	ug/L	0.754	1	9052	81865	0
|	As-1	75	50.415	ug/L	0.363	0	-30	93749	0
|	As	75	50.715	ug/L	0.337	0	10544	104682	0
|	Se	82	49.825	ug/L	0.357	0	0	9107	0
|	Se	78	51.069	ug/L	0.349	0	10737	34245	0
⌊	Mo	98	50.080	ug/L	0.126	0	1921	320388	0
	Y	89		ug/L			294548	265385	0
	Kr	83		ug/L			77	86	9
⌈>	In	115		ug/L			417878	380735	1
|	Ag	107	50.337	ug/L	0.415	0	26	610304	0
|	Cd	111	49.934	ug/L	0.585	1	162	151477	0
|	Cd	114	50.324	ug/L	0.437	0	14	363345	0
|	Sb	121	50.159	ug/L	0.328	0	32	545479	0
|	Sb	123	50.283	ug/L	0.283	0	25	412238	0
|	Ba	135	49.575	ug/L	0.496	1	16	123034	0
⌊	Ba	137	50.042	ug/L	0.505	1	21	208567	0
⌈>	Tb	159		ug/L			395846	357709	0
|	Tl	205	48.844	ug/L	0.530	1	25	1329700	0
|	Pb	208	49.798	ug/L	0.227	0	201	1843250	0
|	Bi	209		ug/L			342389	314906	0
|	Th	232	51.354	ug/L	0.499	0	203	2620905	0
⌊	U	238	50.892	ug/L	0.599	1	20	2746368	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 12:47:04
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	343285	1
[	Be	9	0.002	ug/L	0.002	76	3	4	17
	C	13		mg/L			4456	4185	1
	Cl	37		mg/L			2690010	2747881	0
[>	Sc	45		ug/L			264393	247591	0
[	V-1	51	0.012	ug/L	0.005	46	2140	2138	3
[	V	51	-0.006	ug/L	0.004	60	975	845	5
[	Cr	52	0.019	ug/L	0.005	26	6591	6364	0
[	Cr	53	-0.036	ug/L	0.015	43	372	305	6
[	Mn	55	0.007	ug/L	0.001	16	350	446	4
[	Co	59	0.004	ug/L	0.001	23	42	89	12
[>	Ge	72		ug/L			385276	365292	0
[	Ni	60	0.002	ug/L	0.001	76	45	47	6
[	Ni	62	0.005	ug/L	0.013	293	62	61	9
[	Cu	63	0.001	ug/L	0.002	216	180	177	8
[	Cu	65	0.001	ug/L	0.006	616	100	98	19
[	Zn	66	-0.075	ug/L	0.002	3	348	172	2
[	Zn	67	-0.039	ug/L	0.026	66	70	52	18
[	Zn	68	0.005	ug/L	0.072	1349	9052	8590	0
[	As-1	75	0.021	ug/L	0.015	72	-30	10	274
[	As	75	0.225	ug/L	0.068	30	10544	10433	0
[	Se	82	0.006	ug/L	0.027	481	0	1	294
[	Se	78	0.822	ug/L	0.257	31	10737	10586	0
[	Mo	98	-0.251	ug/L	0.001	0	1921	163	2
	Y	89		ug/L			294548	275465	0
	Kr	83		ug/L			77	77	10
[>	In	115		ug/L			417878	396183	0
[	Ag	107	0.010	ug/L	0.001	13	26	147	11
[	Cd	111	0.012	ug/L	0.004	31	162	192	5
[	Cd	114	0.003	ug/L	0.001	32	14	33	18
[	Sb	121	0.022	ug/L	0.002	7	32	282	5
[	Sb	123	0.025	ug/L	0.003	10	25	235	8
[	Ba	135	-0.000	ug/L	0.002	978	16	15	26
[	Ba	137	0.002	ug/L	0.001	75	21	27	17
[>	Tb	159		ug/L			395846	374422	0
[	Tl	205	0.004	ug/L	0.000	7	25	130	6
[	Pb	208	0.003	ug/L	0.001	15	201	322	6
[	Bi	209		ug/L			342389	328922	0
[	Th	232	0.034	ug/L	0.002	5	203	1992	4
[	U	238	0.004	ug/L	0.000	5	20	246	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 12:54:15
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	333537	0
	Be	9	0.224	ug/L	0.004	1	3	88	0
	C	13		mg/L			4456	6113	2
	Cl	37		mg/L			2690010	2735792	0
>	Sc	45		ug/L			264393	239092	1
	V-1	51	0.232	ug/L	0.016	6	2140	4514	2
	V	51	0.203	ug/L	0.006	3	975	3190	1
	Cr	52	0.617	ug/L	0.016	2	6591	11929	0
	Cr	53	0.503	ug/L	0.020	3	372	924	3
	Mn	55	0.563	ug/L	0.012	2	350	9487	1
	Co	59	0.220	ug/L	0.002	1	42	2840	0
>	Ge	72		ug/L			385276	351490	0
	Ni	60	0.537	ug/L	0.008	1	45	1509	1
	Ni	62	0.572	ug/L	0.037	6	62	297	5
	Cu	63	0.555	ug/L	0.006	1	180	3707	1
	Cu	65	0.552	ug/L	0.004	0	100	1803	0
	Zn	66	4.257	ug/L	0.057	1	348	8967	1
	Zn	67	3.737	ug/L	0.134	3	70	1343	2
	Zn	68	4.652	ug/L	0.094	2	9052	14950	0
	As-1	75	0.228	ug/L	0.012	5	-30	395	6
	As	75	0.675	ug/L	0.056	8	10544	10880	0
	Se	82	0.564	ug/L	0.026	4	0	103	4
	Se	78	2.308	ug/L	0.208	9	10737	10896	0
	Mo	98	-0.052	ug/L	0.007	12	1921	1420	3
	Y	89		ug/L			294548	265757	0
	Kr	83		ug/L			77	72	5
>	In	115		ug/L			417878	382542	0
	Ag	107	0.195	ug/L	0.006	2	26	2395	2
	Cd	111	0.124	ug/L	0.002	1	162	524	0
	Cd	114	0.117	ug/L	0.003	2	14	861	2
	Sb	121	0.219	ug/L	0.004	1	32	2422	2
	Sb	123	0.223	ug/L	0.005	2	25	1863	2
	Ba	135	0.534	ug/L	0.010	1	16	1347	1
	Ba	137	0.541	ug/L	0.010	1	21	2283	1
>	Tb	159		ug/L			395846	364701	0
	Tl	205	0.212	ug/L	0.004	1	25	5896	1
	Pb	208	0.110	ug/L	0.002	1	201	4321	1
	Bi	209		ug/L			342389	317881	0
	Th	232	0.213	ug/L	0.004	2	203	11275	2
	U	238	0.203	ug/L	0.004	1	20	11164	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 13:01:26
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	333555	1
[	Be	9	-0.001	ug/L	0.002	368	3	2	24
	C	13		mg/L			4456	19340	0
	Cl	37		mg/L			2690010	3943363	1
[>	Sc	45		ug/L			264393	222982	1
	V-1	51	0.038	ug/L	0.014	36	2140	2194	5
	V	51	0.663	ug/L	0.011	1	975	7848	0
	Cr	52	0.658	ug/L	0.013	2	6591	11494	0
	Cr	53	2.563	ug/L	0.024	0	372	3107	1
	Mn	55	0.061	ug/L	0.005	7	350	1222	6
[	Co	59	0.040	ug/L	0.001	2	42	508	0
[>	Ge	72		ug/L			385276	331477	1
	Ni	60	0.547	ug/L	0.019	3	45	1447	3
	Ni	62	3.857	ug/L	0.206	5	62	1580	4
	Cu	63	0.456	ug/L	0.008	1	180	2898	3
	Cu	65	0.603	ug/L	0.010	1	100	1851	1
	Zn	66	1.204	ug/L	0.008	0	348	2606	1
	Zn	67	1.787	ug/L	0.020	1	70	638	2
	Zn	68	0.718	ug/L	0.095	13	9052	8760	0
	As-1	75	0.020	ug/L	0.017	83	-30	8	334
	As	75	0.377	ug/L	0.025	6	10544	9735	1
	Se	82	0.008	ug/L	0.074	924	0	2	614
	Se	78	1.496	ug/L	0.143	9	10737	9910	1
[	Mo	98	432.966	ug/L	2.029	0	1921	2593295	1
	Y	89		ug/L			294548	253969	0
	Kr	83		ug/L			77	83	11
[>	In	115		ug/L			417878	358080	1
	Ag	107	0.034	ug/L	0.004	12	26	405	12
	Cd	111	0.087	ug/L	0.029	33	162	387	19
	Cd	114	0.708	ug/L	0.007	1	14	4822	2
	Sb	121	0.054	ug/L	0.002	4	32	579	5
	Sb	123	0.056	ug/L	0.001	2	25	455	0
	Ba	135	0.036	ug/L	0.004	9	16	99	7
[	Ba	137	0.037	ug/L	0.006	15	21	162	14
[>	Tb	159		ug/L			395846	353227	0
	Tl	205	0.004	ug/L	0.000	10	25	122	8
	Pb	208	0.044	ug/L	0.001	1	201	1782	1
	Bi	209		ug/L			342389	297698	0
	Th	232	0.056	ug/L	0.003	5	203	3000	4
[	U	238	0.002	ug/L	0.000	4	20	122	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 13:08:58
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	325551	0
	Be	9	-0.003	ug/L	0.002	75	3	2	34
	C	13		mg/L			4456	17732	0
	Cl	37		mg/L			2690010	3661863	1
>	Sc	45		ug/L			264393	212126	1
	V-1	51	-0.394	ug/L	0.101	25	2140	-2164	45
	V	51	0.693	ug/L	0.017	2	975	7768	0
	Cr	52	20.873	ug/L	0.285	1	6591	184518	1
	Cr	53	22.895	ug/L	0.335	1	372	24027	0
	Mn	55	20.652	ug/L	0.147	0	350	298831	0
	Co	59	20.825	ug/L	0.209	1	42	235540	2
>	Ge	72		ug/L			385276	319399	1
	Ni	60	20.642	ug/L	0.318	1	45	51302	1
	Ni	62	23.680	ug/L	0.122	0	62	9087	0
	Cu	63	20.351	ug/L	0.169	0	180	118160	0
	Cu	65	20.174	ug/L	0.201	0	100	56953	1
	Zn	66	20.328	ug/L	0.128	0	348	37821	1
	Zn	67	19.043	ug/L	0.138	0	70	5985	0
	Zn	68	19.692	ug/L	0.067	0	9052	33245	1
	As-1	75	19.737	ug/L	0.195	0	-30	33259	1
	As	75	19.947	ug/L	0.250	1	10544	42632	1
	Se	82	-0.006	ug/L	0.052	917	0	0	2827
	Se	78	1.496	ug/L	0.230	15	10737	9549	1
	Mo	98	431.392	ug/L	2.279	0	1921	2489744	0
	Y	89		ug/L			294548	247195	0
	Kr	83		ug/L			77	83	6
>	In	115		ug/L			417878	344884	0
	Ag	107	19.094	ug/L	0.083	0	26	209733	0
	Cd	111	19.362	ug/L	0.151	0	162	53289	0
	Cd	114	19.859	ug/L	0.081	0	14	129897	0
	Sb	121	0.050	ug/L	0.002	4	32	522	4
	Sb	123	0.051	ug/L	0.005	10	25	402	9
	Ba	135	0.060	ug/L	0.008	13	16	148	12
	Ba	137	0.062	ug/L	0.006	9	21	252	8
>	Tb	159		ug/L			395846	352492	0
	Tl	205	0.002	ug/L	0.000	25	25	66	16
	Pb	208	0.042	ug/L	0.002	4	201	1714	3
	Bi	209		ug/L			342389	289871	0
	Th	232	0.027	ug/L	0.001	3	203	1548	3
	U	238	0.000	ug/L	0.000	44	20	35	20

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 13:16:28
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			356289	338288	0
⌊	Be	9	192.794	ug/L	1.480	0	3	74510	0
	C	13		mg/L			4456	4898	1
	Cl	37		mg/L			2690010	2452030	1
⌈>	Sc	45		ug/L			264393	229595	0
|	V-1	51	208.735	ug/L	2.459	1	2140	2231966	1
|	V	51	208.805	ug/L	2.203	1	975	2278490	1
|	Cr	52	199.886	ug/L	1.370	0	6591	1863560	1
|	Cr	53	200.671	ug/L	0.703	0	372	225460	1
|	Mn	55	208.316	ug/L	0.496	0	350	3259987	0
⌊	Co	59	207.982	ug/L	1.622	0	42	2545700	1
⌈>	Ge	72		ug/L			385276	336616	1
|	Ni	60	197.892	ug/L	1.285	0	45	518022	0
|	Ni	62	196.048	ug/L	1.513	0	62	78893	1
|	Cu	63	196.214	ug/L	0.542	0	180	1199371	0
|	Cu	65	193.534	ug/L	1.087	0	100	575090	1
|	Zn	66	193.307	ug/L	0.480	0	348	376435	0
|	Zn	67	193.187	ug/L	1.061	0	70	63433	1
|	Zn	68	193.718	ug/L	1.216	0	9052	274783	1
|	As-1	75	198.471	ug/L	0.815	0	-30	352701	0
|	As	75	197.863	ug/L	1.125	0	10544	363480	0
|	Se	82	197.874	ug/L	0.564	0	0	34555	1
|	Se	78	195.540	ug/L	1.341	0	10737	98740	1
⌊	Mo	98	205.118	ug/L	2.199	1	1921	1248476	0
	Y	89		ug/L			294548	259484	0
	Kr	83		ug/L			77	93	7
⌈>	In	115		ug/L			417878	367993	0
|	Ag	107	202.087	ug/L	1.754	0	26	2368352	1
|	Cd	111	194.900	ug/L	1.176	0	162	571096	1
|	Cd	114	193.997	ug/L	1.531	0	14	1353850	1
|	Sb	121	208.242	ug/L	1.926	0	32	2188897	1
|	Sb	123	198.141	ug/L	1.595	0	25	1570024	0
|	Ba	135	196.362	ug/L	3.586	1	16	470994	1
⌊	Ba	137	198.204	ug/L	2.638	1	21	798409	1
⌈>	Tb	159		ug/L			395846	360241	1
|	Tl	205	198.967	ug/L	3.693	1	25	5454108	0
|	Pb	208	197.442	ug/L	3.591	1	201	7358030	0
|	Bi	209		ug/L			342389	295927	0
|	Th	232	203.717	ug/L	5.465	2	203	10467350	1
⌊	U	238	203.637	ug/L	2.770	1	20	11065683	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 13:23:57
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	324068	0
	Be	9	297.130	ug/L	3.358	1	3	110007	1
	C	13		mg/L			4456	5034	1
	Cl	37		mg/L			2690010	2603700	1
>	Sc	45		ug/L			264393	238697	0
	V-1	51	315.738	ug/L	0.504	0	2140	3508800	0
	V	51	311.896	ug/L	0.113	0	975	3537750	0
	Cr	52	308.692	ug/L	1.878	0	6591	2988713	0
	Cr	53	297.199	ug/L	0.263	0	372	346982	0
	Mn	55	308.418	ug/L	1.288	0	350	5017665	0
	Co	59	305.744	ug/L	0.322	0	42	3890528	0
>	Ge	72		ug/L			385276	349156	0
	Ni	60	291.313	ug/L	1.184	0	45	790985	0
	Ni	62	287.204	ug/L	2.001	0	62	119858	0
	Cu	63	284.266	ug/L	0.939	0	180	1802273	0
	Cu	65	286.470	ug/L	1.596	0	100	882883	0
	Zn	66	281.530	ug/L	1.441	0	348	568513	0
	Zn	67	285.373	ug/L	0.581	0	70	97162	0
	Zn	68	283.195	ug/L	1.927	0	9052	412887	0
	As-1	75	292.742	ug/L	1.030	0	-30	539633	0
	As	75	292.766	ug/L	0.395	0	10544	553289	0
	Se	82	285.781	ug/L	1.820	0	0	51764	0
	Se	78	286.136	ug/L	1.892	0	10737	145365	0
	Mo	98	298.533	ug/L	1.452	0	1921	1884067	0
	Y	89		ug/L			294548	260276	0
	Kr	83		ug/L			77	113	0
>	In	115		ug/L			417878	374045	0
	Ag	107	305.121	ug/L	1.392	0	26	3634481	0
	Cd	111	292.423	ug/L	1.176	0	162	870870	0
	Cd	114	304.860	ug/L	0.622	0	14	2162532	0
	Sb	121	314.215	ug/L	1.647	0	32	3357094	0
	Sb	123	313.963	ug/L	4.479	1	25	2528774	1
	Ba	135	294.874	ug/L	1.060	0	16	718942	0
	Ba	137	295.936	ug/L	1.527	0	21	1211749	0
>	Tb	159		ug/L			395846	354910	0
	Tl	205	300.941	ug/L	2.131	0	25	8128708	0
	Pb	208	309.670	ug/L	2.273	0	201	11371598	0
	Bi	209		ug/L			342389	276831	0
	Th	232	311.714	ug/L	1.787	0	203	15783844	0
	U	238	308.533	ug/L	1.736	0	20	16519946	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 13:31:24
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	334951	0
[	Be	9	49.516	ug/L	0.601	1	3	18949	0
	C	13		mg/L			4456	3477	2
	Cl	37		mg/L			2690010	2648425	0
[>	Sc	45		ug/L			264393	238994	0
|	V-1	51	50.038	ug/L	0.540	1	2140	558378	0
|	V	51	50.122	ug/L	0.289	0	975	569949	0
|	Cr	52	50.089	ug/L	0.408	0	6591	490534	0
|	Cr	53	50.346	ug/L	0.691	1	372	59130	1
|	Mn	55	50.171	ug/L	0.595	1	350	817458	0
[	Co	59	50.082	ug/L	0.265	0	42	638093	0
[>	Ge	72		ug/L			385276	347303	0
|	Ni	60	50.439	ug/L	0.114	0	45	136261	0
|	Ni	62	50.157	ug/L	0.235	0	62	20867	0
|	Cu	63	50.942	ug/L	0.204	0	180	321400	0
|	Cu	65	50.968	ug/L	0.163	0	100	156320	0
|	Zn	66	50.432	ug/L	0.292	0	348	101559	0
|	Zn	67	50.670	ug/L	0.602	1	70	17211	0
|	Zn	68	51.012	ug/L	0.493	0	9052	80667	0
|	As-1	75	50.147	ug/L	0.025	0	-30	91926	0
|	As	75	50.391	ug/L	0.089	0	10544	102596	0
|	Se	82	50.377	ug/L	0.199	0	0	9077	0
|	Se	78	51.348	ug/L	0.487	0	10737	33889	0
[	Mo	98	50.003	ug/L	0.392	0	1921	315341	0
	Y	89		ug/L			294548	263919	0
	Kr	83		ug/L			77	80	1
[>	In	115		ug/L			417878	375535	0
|	Ag	107	50.017	ug/L	0.247	0	26	598183	1
|	Cd	111	49.604	ug/L	0.403	0	162	148437	1
|	Cd	114	50.513	ug/L	0.190	0	14	359752	0
|	Sb	121	49.871	ug/L	0.504	1	32	534944	0
|	Sb	123	50.260	ug/L	0.224	0	25	406433	0
|	Ba	135	48.761	ug/L	0.222	0	16	119373	0
[	Ba	137	49.720	ug/L	0.100	0	21	204409	0
[>	Tb	159		ug/L			395846	354208	0
|	Tl	205	48.999	ug/L	0.287	0	25	1320946	0
|	Pb	208	50.031	ug/L	0.276	0	201	1833731	0
|	Bi	209		ug/L			342389	312986	1
|	Th	232	52.341	ug/L	0.261	0	203	2645226	0
[	U	238	51.713	ug/L	0.384	0	20	2763564	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 13:38:37
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	330901	0
[	Be	9	0.007	ug/L	0.007	93	3	5	44
	C	13		mg/L			4456	4090	0
	Cl	37		mg/L			2690010	2717383	0
[>	Sc	45		ug/L			264393	242692	0
|	V-1	51	0.005	ug/L	0.008	172	2140	2018	4
|	V	51	0.042	ug/L	0.002	3	975	1382	1
|	Cr	52	0.015	ug/L	0.018	123	6591	6193	2
|	Cr	53	0.130	ug/L	0.011	8	372	496	2
|	Mn	55	0.014	ug/L	0.002	14	350	551	6
[	Co	59	0.011	ug/L	0.001	7	42	182	5
[>	Ge	72		ug/L			385276	358875	0
|	Ni	60	0.003	ug/L	0.001	36	45	50	6
|	Ni	62	0.024	ug/L	0.030	126	62	68	18
|	Cu	63	0.010	ug/L	0.003	26	180	230	7
|	Cu	65	0.012	ug/L	0.005	45	100	130	13
|	Zn	66	-0.067	ug/L	0.006	9	348	185	7
|	Zn	67	-0.003	ug/L	0.046	1585	70	64	24
|	Zn	68	0.002	ug/L	0.126	6525	9052	8434	1
|	As-1	75	0.016	ug/L	0.011	69	-30	1	1334
|	As	75	0.223	ug/L	0.049	21	10544	10248	0
|	Se	82	-0.021	ug/L	0.055	266	0	-3	315
|	Se	78	0.805	ug/L	0.198	24	10737	10393	0
[	Mo	98	-0.234	ug/L	0.002	0	1921	272	5
	Y	89		ug/L			294548	269625	0
	Kr	83		ug/L			77	75	6
[>	In	115		ug/L			417878	382433	0
|	Ag	107	0.019	ug/L	0.003	16	26	259	15
|	Cd	111	0.013	ug/L	0.002	11	162	188	3
|	Cd	114	0.008	ug/L	0.002	25	14	70	19
|	Sb	121	0.050	ug/L	0.004	7	32	577	7
|	Sb	123	0.048	ug/L	0.003	5	25	415	6
|	Ba	135	0.006	ug/L	0.001	21	16	30	11
[	Ba	137	0.006	ug/L	0.002	43	21	43	24
[>	Tb	159		ug/L			395846	364090	1
|	Tl	205	0.009	ug/L	0.001	11	25	266	10
|	Pb	208	0.009	ug/L	0.001	8	201	540	6
|	Bi	209		ug/L			342389	322581	1
|	Th	232	0.062	ug/L	0.004	7	203	3410	6
[	U	238	0.010	ug/L	0.001	8	20	562	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 P REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 13:45:49
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	322795	0
[	Be	9	0.002	ug/L	0.006	295	3	3	57
	C	13		mg/L			4456	7117	2
	Cl	37		mg/L			2690010	2721188	0
[>	Sc	45		ug/L			264393	257709	0
|	V-1	51	1.105	ug/L	0.024	2	2140	15333	1
|	V	51	1.113	ug/L	0.010	0	975	14575	0
|	Cr	52	0.804	ug/L	0.026	3	6591	14809	1
|	Cr	53	0.848	ug/L	0.029	3	372	1431	2
|	Mn	55	14.011	ug/L	0.070	0	350	246428	0
[	Co	59	0.176	ug/L	0.003	1	42	2455	1
[>	Ge	72		ug/L			385276	346595	0
|	Ni	60	4.522	ug/L	0.154	3	45	12227	2
|	Ni	62	2.622	ug/L	0.041	1	62	1141	1
|	Cu	63	0.991	ug/L	0.009	0	180	6395	1
|	Cu	65	0.877	ug/L	0.013	1	100	2773	0
|	Zn	66	3.786	ug/L	0.065	1	348	7899	1
|	Zn	67	4.674	ug/L	0.151	3	70	1642	4
|	Zn	68	5.050	ug/L	0.010	0	9052	15306	1
|	As-1	75	13.486	ug/L	0.057	0	-30	24651	1
|	As	75	13.649	ug/L	0.085	0	10544	34649	1
|	Se	82	0.265	ug/L	0.075	28	0	48	27
|	Se	78	1.298	ug/L	0.099	7	10737	10270	1
[	Mo	98	0.930	ug/L	0.020	2	1921	7549	0
	Y	89		ug/L			294548	264047	1
	Kr	83		ug/L			77	72	6
[>	In	115		ug/L			417878	369288	1
|	Ag	107	0.012	ug/L	0.002	17	26	166	15
|	Cd	111	0.026	ug/L	0.006	23	162	218	7
|	Cd	114	0.005	ug/L	0.000	7	14	50	5
|	Sb	121	0.109	ug/L	0.002	1	32	1173	1
|	Sb	123	0.102	ug/L	0.006	5	25	832	5
|	Ba	136	38.422	ug/L	0.457	1	16	92495	1
[	Ba	137	38.698	ug/L	0.419	1	21	156442	0
[>	Tb	159		ug/L			395846	347860	0
|	Tl	205	0.005	ug/L	0.001	11	25	159	9
|	Pb	208	0.036	ug/L	0.002	5	201	1482	5
|	Bi	209		ug/L			342389	301303	0
|	Th	232	0.080	ug/L	0.004	5	203	4165	4
[	U	238	1.215	ug/L	0.006	0	20	63780	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 PDUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 13:52:21
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	328941	0
[	Be	9	.0.003	ug/L	0.005	175	3	4	45
	C	13		mg/L			4456	7218	0
	Cl	37		mg/L			2690010	2684167	0
[>	Sc	45		ug/L			264393	256529	0
[	V-1	51	1.125	ug/L	0.009	0	2140	15504	0
[	V	51	1.127	ug/L	0.010	0	975	14686	0
[	Cr	52	0.815	ug/L	0.019	2	6591	14860	0
[	Cr	53	0.843	ug/L	0.027	3	372	1417	2
[	Mn	55	13.762	ug/L	0.204	1	350	240944	1
[	Co	59	0.179	ug/L	0.013	7	42	2488	6
[>	Ge	72		ug/L			385276	337742	1
[	Ni	60	3.410	ug/L	0.038	1	45	8994	1
[	Ni	62	1.568	ug/L	0.009	0	62	687	1
[	Cu	63	0.966	ug/L	0.017	1	180	6084	2
[	Cu	65	0.842	ug/L	0.017	2	100	2596	1
[	Zn	66	3.491	ug/L	0.081	2	348	7121	2
[	Zn	67	4.360	ug/L	0.262	5	70	1496	6
[	Zn	68	4.637	ug/L	0.122	2	9052	14343	0
[	As-1	75	13.316	ug/L	0.130	0	-30	23715	0
[	As	75	13.439	ug/L	0.239	1	10544	33383	0
[	Se	82	0.197	ug/L	0.049	24	0	35	25
[	Se	78	1.103	ug/L	0.406	36	10737	9916	0
[	Mo	98	0.927	ug/L	0.028	3	1921	7335	1
	Y	89		ug/L			294548	260377	0
	Kr	83		ug/L			77	76	5
[>	In	115		ug/L			417878	364386	0
[	Ag	107	0.008	ug/L	0.001	10	26	112	8
[	Cd	111	0.025	ug/L	0.008	30	162	213	10
[	Cd	114	0.005	ug/L	0.000	7	14	48	5
[	Sb	121	0.096	ug/L	0.007	7	32	1024	6
[	Sb	123	0.093	ug/L	0.005	4	25	752	4
[	Ba	135	38.998	ug/L	0.373	0	16	92638	0
[	Ba	137	39.296	ug/L	0.255	0	21	156760	0
[>	Tb	159		ug/L			395846	346578	0
[	Tl	205	0.003	ug/L	0.001	24	25	102	19
[	Pb	208	0.033	ug/L	0.001	4	201	1349	4
[	Bi	209		ug/L			342389	301942	0
[	Th	232	0.037	ug/L	0.001	1	203	2031	1
[	U	238	1.229	ug/L	0.009	0	20	64302	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 13:58:55
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			356289	288452	4
[	**Be**	**9**	**0.168**	ug/L	0.009	5	3	57	4
	C	**13**		mg/L			4456	10348	1
	Cl	**37**		mg/L			2690010	3710383	0
[>	**Sc**	**45**		ug/L			264393	333312	0
|	**V-1**	**51**	**61.675**	ug/L	0.286	0	2140	959231	0
|	**V**	**51**	**60.898**	ug/L	0.282	0	975	965525	0
|	**Cr**	**52**	**10.879**	ug/L	0.056	0	6591	155092	0
|	**Cr**	**53**	**11.708**	ug/L	0.215	1	372	19538	1
|	**Mn**	**55**	**337.642**	ug/L	2.503	0	350	7670328	0
[	**Co**	**59**	**0.576**	ug/L	0.005	0	42	10293	0
[>	**Ge**	**72**		ug/L			385276	349832	1
|	**Ni**	**60**	**1.397**	ug/L	0.019	1	45	3840	2
|	**Ni**	**62**	**3.211**	ug/L	0.084	2	62	1398	3
|	**Cu**	**63**	**6.993**	ug/L	0.086	1	180	44580	0
|	**Cu**	**65**	**5.273**	ug/L	0.048	0	100	16373	1
|	**Zn**	**66**	**2.551**	ug/L	0.071	2	348	5474	2
|	**Zn**	**67**	**9.777**	ug/L	0.197	2	70	3397	2
|	**Zn**	**68**	**3.082**	ug/L	0.114	3	9052	12631	0
|	**As-1**	**75**	**36.107**	ug/L	0.147	0	-30	66664	1
|	**As**	**75**	**35.778**	ug/L	0.171	0	10544	76152	1
|	**Se**	**82**	**2.375**	ug/L	0.144	6	0	431	7
|	**Se**	**78**	**2.197**	ug/L	0.186	8	10737	10793	1
[	**Mo**	**98**	**0.442**	ug/L	0.007	1	1921	4538	0
	Y	**89**		ug/L			294548	367730	0
	Kr	**83**		ug/L			77	95	4
[>	**In**	**115**		ug/L			417878	363229	0
|	**Ag**	**107**	**0.057**	ug/L	0.003	6	26	676	5
|	**Cd**	**111**	**0.149**	ug/L	0.040	26	162	571	21
|	**Cd**	**114**	**0.039**	ug/L	0.002	4	14	279	5
|	**Sb**	**121**	**0.109**	ug/L	0.005	4	32	1157	4
|	**Sb**	**123**	**0.109**	ug/L	0.005	4	25	872	5
|	**Ba**	**135**	**7.497**	ug/L	0.064	0	16	17765	1
[	**Ba**	**137**	**7.402**	ug/L	0.102	1	21	29453	2
[>	**Tb**	**159**		ug/L			395846	334181	0
|	**Tl**	**205**	**0.004**	ug/L	0.001	31	25	119	25
|	**Pb**	**208**	**0.331**	ug/L	0.002	0	201	11611	0
|	**Bi**	**209**		ug/L			342389	287329	0
|	**Th**	**232**	**0.465**	ug/L	0.000	0	203	22332	0
[	**U**	**238**	**0.253**	ug/L	0.003	1	20	12794	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 K REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 14:05:28
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	277360	2
[	Be	9	0.092	ug/L	0.010	10	3	31	12
	C	13		mg/L			4456	9328	1
	Cl	37		mg/L			2690010	3757177	0
[>	Sc	45		ug/L			264393	329464	1
|	V-1	51	33.382	ug/L	0.312	0	2140	514476	2
|	V	51	33.148	ug/L	0.282	0	975	520081	2
|	Cr	52	6.629	ug/L	0.048	0	6591	96625	1
|	Cr	53	7.608	ug/L	0.088	1	372	12711	0
|	Mn	55	333.744	ug/L	0.956	0	350	7494142	1
[	Co	59	0.534	ug/L	0.013	2	42	9435	3
[>	Ge	72		ug/L			385276	362556	1
|	Ni	60	1.127	ug/L	0.014	1	45	3220	2
|	Ni	62	1.506	ug/L	0.083	5	62	711	6
|	Cu	63	2.234	ug/L	0.009	0	180	14875	1
|	Cu	65	0.434	ug/L	0.008	1	100	1484	2
|	Zn	66	1.181	ug/L	0.018	1	348	2804	0
|	Zn	67	5.389	ug/L	0.146	2	70	1970	3
|	Zn	68	1.908	ug/L	0.126	6	9052	11348	0
|	As-1	75	35.534	ug/L	0.076	0	-30	67991	0
|	As	75	35.207	ug/L	0.118	0	10544	77819	0
|	Se	82	2.367	ug/L	0.098	4	0	445	3
|	Se	78	2.159	ug/L	0.274	12	10737	11165	0
[	Mo	98	0.051	ug/L	0.006	11	1921	2143	2
	Y	89		ug/L			294548	325689	1
	Kr	83		ug/L			77	94	3
[>	In	115		ug/L			417878	374189	1
|	Ag	107	0.035	ug/L	0.001	4	26	446	3
|	Cd	111	0.019	ug/L	0.065	333	162	202	94
|	Cd	114	0.005	ug/L	0.001	15	14	52	10
|	Sb	121	0.066	ug/L	0.004	6	32	729	6
|	Sb	123	0.067	ug/L	0.004	5	25	563	4
|	Ba	135	5.382	ug/L	0.091	1	16	13140	1
[	Ba	137	5.410	ug/L	0.019	0	21	22178	1
[>	Tb	159		ug/L			395846	337520	0
|	Tl	205	0.002	ug/L	0.000	9	25	73	7
|	Pb	208	0.024	ug/L	0.001	2	201	1010	2
|	Bi	209		ug/L			342389	291391	0
|	Th	232	0.100	ug/L	0.002	2	203	4986	2
[	U	238	0.071	ug/L	0.003	3	20	3650	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 O REN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 09, 2011 14:12:02
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	279083	0
[	Be	9	0.001	ug/L	0.002	237	3	2	24
	C	13		mg/L			4456	4711	2
	Cl	37		mg/L			2690010	2940908	0
[>	Sc	45		ug/L			264393	253923	0
|	V-1	51	0.271	ug/L	0.013	4	2140	5253	3
|	V	51	0.325	ug/L	0.006	1	975	4862	1
|	Cr	52	0.059	ug/L	0.005	8	6591	6941	0
|	Cr	53	0.243	ug/L	0.044	18	372	659	8
|	Mn	55	78.957	ug/L	0.492	0	350	1366756	0
[	Co	59	0.033	ug/L	0.003	8	42	494	8
[>	Ge	72		ug/L			385276	376015	0
|	Ni	60	0.180	ug/L	0.012	6	45	571	6
|	Ni	62	0.317	ug/L	0.022	6	62	203	4
|	Cu	63	0.104	ug/L	0.007	7	180	885	6
|	Cu	65	0.070	ug/L	0.003	4	100	330	3
|	Zn	66	0.150	ug/L	0.015	10	348	666	4
|	Zn	67	0.261	ug/L	0.038	14	70	164	8
|	Zn	68	0.147	ug/L	0.187	127	9052	9060	2
|	As-1	75	107.882	ug/L	0.310	0	-30	214146	0
|	As	75	107.367	ug/L	0.364	0	10544	225035	0
|	Se	82	0.106	ug/L	0.068	64	0	21	62
|	Se	78	1.246	ug/L	0.229	18	10737	11114	0
[	Mo	98	-0.206	ug/L	0.006	2	1921	473	8
	Y	89		ug/L			294548	268145	0
	Kr	83		ug/L			77	82	8
[>	In	115		ug/L			417878	395981	0
|	Ag	107	0.003	ug/L	0.001	28	26	64	16
|	Cd	111	0.018	ug/L	0.003	18	162	210	4
|	Cd	114	0.001	ug/L	0.001	122	14	18	27
|	Sb	121	0.013	ug/L	0.000	3	32	182	3
|	Sb	123	0.013	ug/L	0.000	1	25	137	0
|	Ba	135	0.356	ug/L	0.005	1	16	934	0
[	Ba	137	0.353	ug/L	0.005	1	21	1549	1
[>	Tb	159		ug/L			395846	353024	0
|	Tl	205	0.002	ug/L	0.000	15	25	85	10
|	Pb	208	0.004	ug/L	0.001	16	201	314	6
|	Bi	209		ug/L			342389	320039	0
|	Th	232	0.003	ug/L	0.000	14	203	337	6
[	U	238	0.022	ug/L	0.000	0	20	1175	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 O REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, May 09, 2011 14:18:37
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	283380	0
	Be	9	0.006	ug/L	0.004	73	3	4	31
	C	13		mg/L			4456	5740	0
	Cl	37		mg/L			2690010	2915559	0
>	Sc	45		ug/L			264393	276677	0
	V-1	51	0.920	ug/L	0.032	3	2140	14086	2
	V	51	0.960	ug/L	0.027	2	975	13643	2
	Cr	52	0.148	ug/L	0.007	4	6591	8554	1
	Cr	53	0.322	ug/L	0.022	6	372	825	3
	Mn	55	298.620	ug/L	3.392	1	350	5631448	1
	Co	59	0.114	ug/L	0.001	1	42	1729	1
>	Ge	72		ug/L			385276	375532	0
	Ni	60	0.710	ug/L	0.010	1	45	2116	1
	Ni	62	0.606	ug/L	0.062	10	62	332	8
	Cu	63	0.271	ug/L	0.005	1	180	2022	2
	Cu	65	0.188	ug/L	0.017	8	100	720	7
	Zn	66	0.688	ug/L	0.011	1	348	1834	1
	Zn	67	0.789	ug/L	0.071	8	70	357	7
	Zn	68	0.884	ug/L	0.019	2	9052	10181	0
	As-1	75	428.812	ug/L	1.638	0	-30	850191	0
	As	75	425.896	ug/L	1.604	0	10544	861014	0
	Se	82	0.174	ug/L	0.025	14	0	34	13
	Se	78	1.202	ug/L	0.082	6	10737	11078	0
	Mo	98	-0.042	ug/L	0.005	11	1921	1584	2
	Y	89		ug/L			294548	268331	0
	Kr	83		ug/L			77	81	4
>	In	115		ug/L			417878	396504	0
	Ag	107	0.003	ug/L	0.001	25	26	63	15
	Cd	111	0.018	ug/L	0.005	26	162	209	7
	Cd	114	0.004	ug/L	0.001	13	14	45	9
	Sb	121	0.034	ug/L	0.001	4	32	420	4
	Sb	123	0.036	ug/L	0.001	2	25	328	2
	Ba	135	1.324	ug/L	0.014	1	16	3438	0
	Ba	137	1.371	ug/L	0.018	1	21	5970	1
>	Tb	159		ug/L			395846	351910	0
	Tl	205	0.003	ug/L	0.001	24	25	110	19
	Pb	208	0.011	ug/L	0.001	9	201	571	6
	Bi	209		ug/L			342389	314165	0
	Th	232	0.007	ug/L	0.001	15	203	518	10
	U	238	0.083	ug/L	0.002	2	20	4419	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 M REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, May 09, 2011 14:25:12
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	296755	1
[	Be	9	0.003	ug/L	0.004	129	3	3	33
	C	13		mg/L			4456	5825	2
	Cl	37		mg/L			2690010	2882323	0
[>	Sc	45		ug/L			264393	271397	0
[	V-1	51	0.393	ug/L	0.008	1	2140	7163	0
[	V	51	0.438	ug/L	0.005	1	975	6642	0
[	Cr	52	0.155	ug/L	0.007	4	6591	8466	0
[	Cr	53	0.307	ug/L	0.015	4	372	790	2
[	Mn	55	153.159	ug/L	1.270	0	350	2833209	0
[	Co	59	0.086	ug/L	0.005	5	42	1291	5
[>	Ge	72		ug/L			385276	376561	1
[	Ni	60	0.406	ug/L	0.011	2	45	1232	2
[	Ni	62	0.247	ug/L	0.018	7	62	172	3
[	Cu	63	0.215	ug/L	0.007	3	180	1645	2
[	Cu	65	0.137	ug/L	0.003	2	100	552	1
[	Zn	66	1.945	ug/L	0.045	2	348	4574	1
[	Zn	67	1.706	ug/L	0.045	2	70	694	1
[	Zn	68	1.995	ug/L	0.043	2	9052	11921	0
[	As-1	75	1499.229	ug/L	13.492	0	-30	2980513	0
[	As	75	1488.367	ug/L	13.454	0	10544	2991322	0
[	Se	82	0.046	ug/L	0.007	15	0	9	13
[	Se	78	1.001	ug/L	0.263	26	10737	11005	0
[	Mo	98	4.073	ug/L	0.027	0	1921	29572	0
	Y	89		ug/L			294548	270270	0
	Kr	83		ug/L			77	82	3
[>	In	115		ug/L			417878	393991	1
[	Ag	107	0.002	ug/L	0.000	13	26	55	6
[	Cd	111	0.018	ug/L	0.004	20	162	209	6
[	Cd	114	0.013	ug/L	0.003	23	14	108	21
[	Sb	121	0.019	ug/L	0.001	7	32	242	4
[	Sb	123	0.019	ug/L	0.001	3	25	183	3
[	Ba	135	1.188	ug/L	0.049	4	16	3064	2
[	Ba	137	1.146	ug/L	0.027	2	21	4961	1
[>	Tb	159		ug/L			395846	356818	1
[	Tl	205	0.002	ug/L	0.000	11	25	81	8
[	Pb	208	0.006	ug/L	0.000	4	201	392	3
[	Bi	209		ug/L			342389	319394	0
[	Th	232	0.005	ug/L	0.001	13	203	418	6
[	U	238	0.004	ug/L	0.001	14	20	212	14

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 N REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, May 09, 2011 14:31:47
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	310116	2
	Be	9	0.007	ug/L	0.002	31	3	5	13
	C	13		mg/L			4456	5717	0
	Cl	37		mg/L			2690010	2893812	0
>	Sc	45		ug/L			264393	273038	2
	V-1	51	0.361	ug/L	0.007	1	2140	6804	3
	V	51	0.404	ug/L	0.005	1	975	6246	1
	Cr	52	0.138	ug/L	0.018	12	6591	8337	3
	Cr	53	0.285	ug/L	0.035	12	372	763	3
	Mn	55	151.124	ug/L	1.196	0	350	2812227	2
	Co	59	0.084	ug/L	0.004	4	42	1273	6
>	Ge	72		ug/L			385276	373524	1
	Ni	60	0.434	ug/L	0.006	1	45	1305	2
	Ni	62	0.270	ug/L	0.044	16	62	180	10
	Cu	63	0.217	ug/L	0.013	5	180	1642	5
	Cu	65	0.136	ug/L	0.013	9	100	545	6
	Zn	66	1.881	ug/L	0.025	1	348	4400	2
	Zn	67	1.762	ug/L	0.026	1	70	709	2
	Zn	68	2.061	ug/L	0.148	7	9052	11924	0
	As-1	75	1373.578	ug/L	3.897	0	-30	2708789	1
	As	75	1363.562	ug/L	3.995	0	10544	2719339	1
	Se	82	0.045	ug/L	0.003	6	0	9	5
	Se	78	0.652	ug/L	0.539	82	10737	10737	0
	Mo	98	3.830	ug/L	0.064	1	1921	27701	2
	Y	89		ug/L			294548	268379	2
	Kr	83		ug/L			77	78	2
>	In	115		ug/L			417878	393836	1
	Ag	107	0.002	ug/L	0.002	94	26	45	43
	Cd	111	0.017	ug/L	0.011	62	162	205	16
	Cd	114	0.012	ug/L	0.003	22	14	105	19
	Sb	121	0.020	ug/L	0.002	7	32	259	7
	Sb	123	0.020	ug/L	0.002	10	25	190	10
	Ba	135	1.159	ug/L	0.019	1	16	2990	2
	Ba	137	1.182	ug/L	0.029	2	21	5115	3
>	Tb	159		ug/L			395846	357664	2
	Tl	205	0.002	ug/L	0.000	26	25	69	16
	Pb	208	0.008	ug/L	0.000	6	201	460	5
	Bi	209		ug/L			342389	315879	1
	Th	232	0.004	ug/L	0.001	17	203	380	11
	U	238	0.003	ug/L	0.000	3	20	167	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 E REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, May 09, 2011 14:38:23
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	**Li**	**6**		ug/L			356289	325730	0
	Be	**9**	**0.003**	ug/L	0.007	232	3	4	62
	C	**13**		mg/L			4456	4649	0
	Cl	**37**		mg/L			2690010	2956638	0
>	**Sc**	**45**		ug/L			264393	261225	0
	V-1	**51**	**0.044**	ug/L	0.001	1	2140	2652	0
	V	**51**	**0.074**	ug/L	0.002	3	975	1888	1
	Cr	**52**	**0.016**	ug/L	0.005	30	6591	6677	0
	Cr	**53**	**0.111**	ug/L	0.008	7	372	510	1
	Mn	**55**	**16.083**	ug/L	0.097	0	350	286669	0
	Co	**59**	**0.012**	ug/L	0.002	14	42	203	11
>	**Ge**	**72**		ug/L			385276	383857	0
	Ni	**60**	**0.050**	ug/L	0.007	14	45	194	11
	Ni	**62**	**0.072**	ug/L	0.011	15	62	95	5
	Cu	**63**	**0.054**	ug/L	0.003	6	180	555	3
	Cu	**65**	**0.043**	ug/L	0.004	9	100	245	5
	Zn	**66**	**1.295**	ug/L	0.027	2	348	3222	2
	Zn	**67**	**1.158**	ug/L	0.040	3	70	503	2
	Zn	**68**	**1.109**	ug/L	0.089	7	9052	10761	1
	As-1	**75**	**132.470**	ug/L	0.514	0	-30	268446	0
	As	**75**	**131.481**	ug/L	0.513	0	10544	278966	0
	Se	**82**	**0.003**	ug/L	0.032	943	0	1	475
	Se	**78**	**-0.052**	ug/L	0.013	24	10737	10670	0
	Mo	**98**	**0.149**	ug/L	0.003	1	1921	2949	0
	Y	**89**		ug/L			294548	280055	0
	Kr	**83**		ug/L			77	72	9
>	**In**	**115**		ug/L			417878	411451	0
	Ag	**107**	**0.001**	ug/L	0.001	48	26	44	19
	Cd	**111**	**0.017**	ug/L	0.002	10	162	214	2
	Cd	**114**	**0.005**	ug/L	0.000	8	14	50	6
	Sb	**121**	**0.005**	ug/L	0.001	27	32	89	16
	Sb	**123**	**0.005**	ug/L	0.002	34	25	71	22
	Ba	**135**	**0.124**	ug/L	0.018	14	16	350	13
	Ba	**137**	**0.126**	ug/L	0.003	2	21	590	1
>	**Tb**	**159**		ug/L			395846	375955	0
	Tl	**205**	**0.001**	ug/L	0.000	21	25	66	13
	Pb	**208**	**0.006**	ug/L	0.001	10	201	415	4
	Bi	**209**		ug/L			342389	338247	1
	Th	**232**	**-0.001**	ug/L	0.000	18	203	155	5
	U	**238**	**0.000**	ug/L	0.000	17	20	38	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 F REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, May 09, 2011 14:45:00
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			356289	333036	0
[	**Be**	**9**	**-0.003**	ug/L	0.004	140	3	2	69
	C	**13**		mg/L			4456	4720	1
	Cl	**37**		mg/L			2690010	2961539	0
[>	**Sc**	**45**		ug/L			264393	261872	0
|	**V-1**	**51**	**0.051**	ug/L	0.008	16	2140	2739	3
|	**V**	**51**	**0.070**	ug/L	0.001	1	975	1839	0
|	**Cr**	**52**	**0.028**	ug/L	0.009	32	6591	6828	1
|	**Cr**	**53**	**0.090**	ug/L	0.014	16	372	483	3
|	**Mn**	**55**	**15.993**	ug/L	0.114	0	350	285787	0
[	**Co**	**59**	**0.011**	ug/L	0.002	14	42	197	10
[>	**Ge**	**72**		ug/L			385276	386124	0
|	**Ni**	**60**	**0.047**	ug/L	0.002	4	45	186	3
|	**Ni**	**62**	**0.078**	ug/L	0.027	33	62	98	12
|	**Cu**	**63**	**0.048**	ug/L	0.001	1	180	516	1
|	**Cu**	**65**	**0.038**	ug/L	0.010	27	100	229	15
|	**Zn**	**66**	**1.275**	ug/L	0.031	2	348	3194	2
|	**Zn**	**67**	**1.249**	ug/L	0.022	1	70	540	1
|	**Zn**	**68**	**1.014**	ug/L	0.025	2	9052	10674	0
|	**As-1**	**75**	**132.733**	ug/L	0.061	0	-30	270568	0
|	**As**	**75**	**131.675**	ug/L	0.044	0	10544	281012	0
|	**Se**	**82**	**-0.005**	ug/L	0.047	890	0	0	2599
|	**Se**	**78**	**-0.299**	ug/L	0.089	29	10737	10603	0
[	**Mo**	**98**	**0.151**	ug/L	0.015	9	1921	2981	3
	Y	**89**		ug/L			294548	280821	0
	Kr	**83**		ug/L			77	77	5
[>	**In**	**115**		ug/L			417878	413955	0
|	**Ag**	**107**	**0.001**	ug/L	0.000	58	26	36	15
|	**Cd**	**111**	**0.019**	ug/L	0.002	9	162	223	2
|	**Cd**	**114**	**0.004**	ug/L	0.001	40	14	43	25
|	**Sb**	**121**	**0.003**	ug/L	0.002	46	32	72	25
|	**Sb**	**123**	**0.004**	ug/L	0.001	37	25	60	22
|	**Ba**	**135**	**0.119**	ug/L	0.005	4	16	337	4
[	**Ba**	**137**	**0.122**	ug/L	0.013	10	21	576	10
[>	**Tb**	**159**		ug/L			395846	378625	0
|	**Tl**	**205**	**0.001**	ug/L	0.000	31	25	62	18
|	**Pb**	**208**	**0.003**	ug/L	0.001	31	201	314	13
|	**Bi**	**209**		ug/L			342389	338814	0
|	**Th**	**232**	**-0.001**	ug/L	0.000	22	203	135	9
[	**U**	**238**	**0.000**	ug/L	0.000	21	20	48	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 14:51:35
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	323220	1
	Be	9	51.922	ug/L	1.008	1	3	19172	0
	C	13		mg/L			4456	3665	1
	Cl	37		mg/L			2690010	2972854	0
>	Sc	45		ug/L			264393	257713	0
	V-1	51	50.400	ug/L	0.214	0	2140	606468	0
	V	51	50.321	ug/L	0.166	0	975	617052	0
	Cr	52	50.535	ug/L	0.078	0	6591	533625	0
	Cr	53	50.283	ug/L	0.244	0	372	63684	0
	Mn	55	50.296	ug/L	0.444	0	350	883741	1
	Co	59	50.273	ug/L	0.580	1	42	690687	0
>	Ge	72		ug/L			385276	378597	0
	Ni	60	50.246	ug/L	0.450	0	45	147971	0
	Ni	62	49.329	ug/L	0.382	0	62	22373	0
	Cu	63	50.035	ug/L	0.524	1	180	344116	0
	Cu	65	50.011	ug/L	0.235	0	100	167210	0
	Zn	66	49.873	ug/L	0.574	1	348	109485	0
	Zn	67	51.126	ug/L	0.600	1	70	18931	0
	Zn	68	50.456	ug/L	0.216	0	9052	87074	0
	As-1	75	50.258	ug/L	0.457	0	-30	100430	0
	As	75	50.305	ug/L	0.593	1	10544	111663	0
	Se	82	49.251	ug/L	0.216	0	0	9674	0
	Se	78	49.455	ug/L	0.437	0	10737	35969	0
	Mo	98	48.842	ug/L	0.518	1	1921	335820	0
	Y	89		ug/L			294548	275363	0
	Kr	83		ug/L			77	81	4
>	In	115		ug/L			417878	403333	1
	Ag	107	50.084	ug/L	0.549	1	26	643310	1
	Cd	111	50.161	ug/L	0.519	1	162	161201	0
	Cd	114	50.040	ug/L	0.367	0	14	382764	1
	Sb	121	50.329	ug/L	0.612	1	32	579801	0
	Sb	123	50.298	ug/L	0.752	1	25	436821	1
	Ba	135	49.329	ug/L	0.652	1	16	129690	0
	Ba	137	49.718	ug/L	0.403	0	21	219521	0
>	Tb	159		ug/L			395846	369447	0
	Tl	205	49.366	ug/L	0.044	0	25	1388095	0
	Pb	208	50.478	ug/L	0.173	0	201	1929763	0
	Bi	209		ug/L			342389	330385	0
	Th	232	52.376	ug/L	0.477	0	203	2760951	1
	U	238	52.431	ug/L	0.453	0	20	2922329	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 14:58:48
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	338275	1
	Be	9	-0.005	ug/L	0.003	64	3	1	100
	C	13		mg/L			4456	4235	2
	Cl	37		mg/L			2690010	2996968	0
>	Sc	45		ug/L			264393	267093	0
	V-1	51	0.006	ug/L	0.007	121	2140	2232	4
	V	51	0.020	ug/L	0.004	17	975	1244	4
	Cr	52	0.000	ug/L	0.009	5888	6591	6661	1
	Cr	53	0.046	ug/L	0.001	2	372	436	0
	Mn	55	0.012	ug/L	0.001	4	350	579	1
	Co	59	0.005	ug/L	0.001	23	42	117	14
>	Ge	72		ug/L			385276	391318	0
	Ni	60	0.003	ug/L	0.003	94	45	55	16
	Ni	62	0.003	ug/L	0.028	848	62	65	19
	Cu	63	0.002	ug/L	0.001	62	180	199	5
	Cu	65	-0.001	ug/L	0.001	179	100	99	5
	Zn	66	-0.077	ug/L	0.001	1	348	180	2
	Zn	67	-0.039	ug/L	0.024	61	70	56	15
	Zn	68	-0.396	ug/L	0.104	26	9052	8559	1
	As-1	75	0.022	ug/L	0.010	43	-30	14	136
	As	75	-0.080	ug/L	0.028	34	10544	10542	0
	Se	82	0.004	ug/L	0.055	1324	0	1	729
	Se	78	-0.411	ug/L	0.121	29	10737	10686	0
	Mo	98	-0.251	ug/L	0.004	1	1921	178	16
	Y	89		ug/L			294548	287196	1
	Kr	83		ug/L			77	75	9
>	In	115		ug/L			417878	421865	1
	Ag	107	0.010	ug/L	0.002	15	26	164	11
	Cd	111	0.019	ug/L	0.010	53	162	226	13
	Cd	114	0.004	ug/L	0.001	14	14	45	8
	Sb	121	0.024	ug/L	0.005	22	32	319	20
	Sb	123	0.023	ug/L	0.003	12	25	231	11
	Ba	135	0.000	ug/L	0.001	488	16	17	18
	Ba	137	0.003	ug/L	0.003	98	21	35	38
>	Tb	159		ug/L			395846	380288	0
	Tl	205	0.004	ug/L	0.001	20	25	152	17
	Pb	208	0.005	ug/L	0.001	22	201	373	10
	Bi	209		ug/L			342389	342654	0
	Th	232	0.046	ug/L	0.004	9	203	2671	9
	U	238	0.005	ug/L	0.001	20	20	306	19

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 MB1 SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 09, 2011 15:07:09
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	346202	1
[	Be	9	0.004	ug/L	0.008	187	3	5	66
	C	13		mg/L			4456	5956	2
	Cl	37		mg/L			2690010	3015382	0
[>	Sc	45		ug/L			264393	266011	0
|	V-1	51	0.019	ug/L	0.003	17	2140	2391	1
|	V	51	0.014	ug/L	0.004	30	975	1153	4
|	Cr	52	0.051	ug/L	0.002	4	6591	7182	0
|	Cr	53	0.032	ug/L	0.021	67	372	415	6
|	Mn	55	0.025	ug/L	0.001	5	350	799	3
[	Co	59	0.004	ug/L	0.001	22	42	99	13
[>	Ge	72		ug/L			385276	388263	0
|	Ni	60	0.011	ug/L	0.002	18	45	79	8
|	Ni	62	0.049	ug/L	0.013	26	62	85	6
|	Cu	63	0.028	ug/L	0.001	4	180	375	1
|	Cu	65	0.025	ug/L	0.007	26	100	187	12
|	Zn	66	0.306	ug/L	0.025	8	348	1038	5
|	Zn	67	0.372	ug/L	0.072	19	70	211	12
|	Zn	68	0.025	ug/L	0.090	355	9052	9162	1
|	As-1	75	0.021	ug/L	0.013	63	-30	11	231
|	As	75	-0.035	ug/L	0.029	82	10544	10553	0
|	Se	82	0.015	ug/L	0.039	249	0	3	203
|	Se	78	-0.209	ug/L	0.062	29	10737	10709	0
[	Mo	98	-0.265	ug/L	0.001	0	1921	81	8
	Y	89		ug/L			294548	289544	0
	Kr	83		ug/L			77	76	14
[>	In	115		ug/L			417878	416513	0
|	Ag	107	0.003	ug/L	0.001	23	26	65	13
|	Cd	111	0.024	ug/L	0.007	28	162	241	8
|	Cd	114	0.001	ug/L	0.000	40	14	23	15
|	Sb	121	0.006	ug/L	0.001	21	32	107	15
|	Sb	123	0.007	ug/L	0.001	20	25	90	13
|	Ba	135	0.327	ug/L	0.014	4	16	904	4
[	Ba	137	0.332	ug/L	0.007	2	21	1533	1
[>	Tb	159		ug/L			395846	381892	0
|	Tl	205	0.002	ug/L	0.000	18	25	80	12
|	Pb	208	0.009	ug/L	0.001	13	201	537	8
|	Bi	209		ug/L			342389	345486	0
|	Th	232	0.009	ug/L	0.001	9	203	678	7
[	U	238	0.001	ug/L	0.000	25	20	62	17

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 MB1SPK SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 09, 2011 15:13:46
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	353631	0
[	Be	9	25.337	ug/L	0.157	0	3	10239	1
	C	13		mg/L			4456	5408	0
	Cl	37		mg/L			2690010	2968201	0
[>	Sc	45		ug/L			264393	268556	0
[	V-1	51	25.028	ug/L	0.034	0	2140	314935	0
[	V	51	24.929	ug/L	0.134	0	975	319038	0
[	Cr	52	25.408	ug/L	0.123	0	6591	282917	0
[	Cr	53	25.074	ug/L	0.246	0	372	33281	0
[	Mn	55	25.640	ug/L	0.076	0	350	469655	0
[	Co	59	25.486	ug/L	0.409	1	42	364913	1
[>	Ge	72		ug/L			385276	385540	1
[	Ni	60	26.127	ug/L	0.244	0	45	78370	1
[	Ni	62	26.283	ug/L	0.352	1	62	12166	0
[	Cu	63	26.947	ug/L	0.370	1	180	188787	0
[	Cu	65	26.879	ug/L	0.441	1	100	91549	0
[	Zn	66	82.027	ug/L	1.391	1	348	183123	0
[	Zn	67	76.653	ug/L	0.772	1	70	28867	0
[	Zn	68	81.282	ug/L	1.316	1	9052	137291	0
[	As-1	75	24.988	ug/L	0.296	1	-30	50830	1
[	As	75	25.208	ug/L	0.112	0	10544	62244	1
[	Se	82	80.481	ug/L	1.835	2	0	16094	1
[	Se	78	79.699	ug/L	1.246	1	10737	52453	0
[	Mo	98	-0.265	ug/L	0.001	0	1921	76	5
	Y	89		ug/L			294548	290156	1
	Kr	83		ug/L			77	80	4
[>	In	115		ug/L			417878	424756	1
[	Ag	107	25.685	ug/L	0.176	0	26	347435	0
[	Cd	111	25.084	ug/L	0.515	2	162	84972	1
[	Cd	114	25.128	ug/L	0.201	0	14	202416	0
[	Sb	121	0.007	ug/L	0.000	2	32	121	3
[	Sb	123	0.006	ug/L	0.001	22	25	82	14
[	Ba	135	24.714	ug/L	0.138	0	16	68437	0
[	Ba	137	25.056	ug/L	0.202	0	21	116521	0
[>	Tb	159		ug/L			395846	390394	1
[	Tl	205	25.062	ug/L	0.186	0	25	744661	1
[	Pb	208	25.743	ug/L	0.216	0	201	1039974	0
[	Bi	209		ug/L			342389	350159	0
[	Th	232	24.576	ug/L	0.015	0	203	1369039	1
[	U	238	24.644	ug/L	0.324	1	20	1451416	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 D REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, May 09, 2011 15:20:20
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	353192	1
[	Be	9	0.005	ug/L	0.005	87	3	5	35
	C	13		mg/L			4456	5602	1
	Cl	37		mg/L			2690010	2893633	0
[>	Sc	45		ug/L			264393	271911	0
[	V-1	51	5.293	ug/L	0.059	1	2140	69172	1
[	V	51	5.228	ug/L	0.050	0	975	68538	1
[	Cr	52	1.292	ug/L	0.015	1	6591	21005	0
[	Cr	53	1.346	ug/L	0.027	2	372	2170	1
[	Mn	55	44.414	ug/L	0.291	0	350	823449	1
[	Co	59	0.648	ug/L	0.006	0	42	9432	0
[>	Ge	72		ug/L			385276	377191	0
[	Ni	60	1.582	ug/L	0.050	3	45	4682	2
[	Ni	62	1.238	ug/L	0.073	5	62	618	5
[	Cu	63	21.609	ug/L	0.245	1	180	148166	0
[	Cu	65	21.436	ug/L	0.127	0	100	71459	0
[	Zn	66	26.778	ug/L	0.151	0	348	58725	0
[	Zn	67	24.816	ug/L	0.401	1	70	9190	1
[	Zn	68	26.257	ug/L	0.342	1	9052	49396	0
[	As-1	75	115.977	ug/L	0.912	0	-30	230937	0
[	As	75	114.990	ug/L	0.925	0	10544	241034	0
[	Se	82	0.133	ug/L	0.066	49	0	26	48
[	Se	78	-0.406	ug/L	0.129	31	10737	10304	0
[	Mo	98	4.242	ug/L	0.077	1	1921	30778	1
	Y	89		ug/L			294548	294419	0
	Kr	83		ug/L			77	68	5
[>	In	115		ug/L			417878	410992	1
[	Ag	107	0.118	ug/L	0.005	4	26	1565	3
[	Cd	111	0.058	ug/L	0.006	11	162	348	5
[	Cd	114	0.031	ug/L	0.002	7	14	257	6
[	Sb	121	0.651	ug/L	0.005	0	32	7676	1
[	Sb	123	0.670	ug/L	0.017	2	25	5952	1
[	Ba	135	5.904	ug/L	0.041	0	16	15832	1
[	Ba	137	5.992	ug/L	0.157	2	21	26974	1
[>	Tb	159		ug/L			395846	385448	1
[	Tl	205	0.010	ug/L	0.002	15	25	314	14
[	Pb	208	0.130	ug/L	0.004	3	201	5387	2
[	Bi	209		ug/L			342389	339981	0
[	Th	232	0.051	ug/L	0.002	4	203	3008	5
[	U	238	0.135	ug/L	0.003	2	20	7878	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 J REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, May 09, 2011 15:26:46
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			356289	345732	0
⌊	**Be**	**9**	**0.007**	ug/L	0.005	73	3	5	32
	C	**13**		mg/L			4456	5424	0
	Cl	**37**		mg/L			2690010	2893633	0
⌈>	**Sc**	**45**		ug/L			264393	268637	0
|	**V-1**	**51**	**4.726**	ug/L	0.071	1	2140	61242	1
|	**V**	**51**	**4.671**	ug/L	0.056	1	975	60603	1
|	**Cr**	**52**	**1.212**	ug/L	0.016	1	6591	19876	0
|	**Cr**	**53**	**1.267**	ug/L	0.035	2	372	2041	2
|	**Mn**	**55**	**44.691**	ug/L	0.416	0	350	818560	0
⌊	**Co**	**59**	**0.647**	ug/L	0.016	2	42	9302	1
⌈>	**Ge**	**72**		ug/L			385276	374185	0
|	**Ni**	**60**	**1.628**	ug/L	0.042	2	45	4782	2
|	**Ni**	**62**	**1.314**	ug/L	0.094	7	62	648	6
|	**Cu**	**63**	**6.574**	ug/L	0.049	0	180	44836	0
|	**Cu**	**65**	**6.523**	ug/L	0.041	0	100	21638	0
|	**Zn**	**66**	**26.224**	ug/L	0.135	0	348	57058	0
|	**Zn**	**67**	**23.507**	ug/L	0.225	0	70	8640	1
|	**Zn**	**68**	**25.756**	ug/L	0.163	0	9052	48234	0
|	**As-1**	**75**	**115.933**	ug/L	0.224	0	-30	229010	0
|	**As**	**75**	**114.877**	ug/L	0.244	0	10544	238888	0
|	**Se**	**82**	**0.076**	ug/L	0.033	43	0	15	41
|	**Se**	**78**	**-0.716**	ug/L	0.117	16	10737	10064	0
⌊	**Mo**	**98**	**4.148**	ug/L	0.051	1	1921	29893	1
	Y	**89**		ug/L			294548	288511	0
	Kr	**83**		ug/L			77	71	6
⌈>	**In**	**115**		ug/L			417878	404556	0
|	**Ag**	**107**	**0.019**	ug/L	0.001	7	26	269	6
|	**Cd**	**111**	**0.050**	ug/L	0.010	20	162	319	9
|	**Cd**	**114**	**0.026**	ug/L	0.002	9	14	214	8
|	**Sb**	**121**	**0.622**	ug/L	0.008	1	32	7215	1
|	**Sb**	**123**	**0.629**	ug/L	0.017	2	25	5501	2
|	**Ba**	**135**	**5.859**	ug/L	0.073	1	16	15464	0
⌊	**Ba**	**137**	**5.881**	ug/L	0.027	0	21	26064	0
⌈>	**Tb**	**159**		ug/L			395846	376478	1
|	**Tl**	**205**	**0.006**	ug/L	0.000	3	25	184	3
|	**Pb**	**208**	**0.050**	ug/L	0.002	3	201	2140	2
|	**Bi**	**209**		ug/L			342389	335742	0
|	**Th**	**232**	**0.025**	ug/L	0.001	2	203	1539	1
⌊	**U**	**238**	**0.133**	ug/L	0.003	1	20	7598	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 L REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, May 09, 2011 15:33:17
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	348176	0
[	Be	9	0.002	ug/L	0.010	414	3	4	91
	C	13		mg/L			4456	5079	2
	Cl	37		mg/L			2690010	2832186	0
[>	Sc	45		ug/L			264393	269336	0
[	V-1	51	0.237	ug/L	0.007	2	2140	5150	1
[	V	51	0.261	ug/L	0.006	2	975	4327	0
[	Cr	52	0.018	ug/L	0.013	68	6591	6915	1
[	Cr	53	0.106	ug/L	0.020	18	372	518	4
[	Mn	55	17.830	ug/L	0.019	0	350	327651	0
[	Co	59	0.127	ug/L	0.005	4	42	1861	4
[>	Ge	72		ug/L			385276	367556	0
[	Ni	60	0.498	ug/L	0.012	2	45	1465	2
[	Ni	62	0.287	ug/L	0.048	16	62	185	11
[	Cu	63	0.136	ug/L	0.002	1	180	1077	1
[	Cu	65	0.071	ug/L	0.005	7	100	325	4
[	Zn	66	0.447	ug/L	0.014	3	348	1283	2
[	Zn	67	0.514	ug/L	0.073	14	70	251	9
[	Zn	68	0.276	ug/L	0.036	13	9052	9051	1
[	As-1	75	194.005	ug/L	0.826	0	-30	376456	0
[	As	75	192.357	ug/L	0.837	0	10544	386130	0
[	Se	82	0.060	ug/L	0.002	3	0	12	3
[	Se	78	-0.796	ug/L	0.080	10	10737	9846	0
[	Mo	98	2.255	ug/L	0.039	1	1921	16797	1
	Y	89		ug/L			294548	274672	1
	Kr	83		ug/L			77	68	0
[>	In	115		ug/L			417878	397381	1
[	Ag	107	0.003	ug/L	0.000	5	26	66	4
[	Cd	111	0.020	ug/L	0.008	41	162	218	13
[	Cd	114	0.009	ug/L	0.002	22	14	81	19
[	Sb	121	0.044	ug/L	0.001	2	32	532	3
[	Sb	123	0.047	ug/L	0.004	8	25	427	8
[	Ba	135	1.530	ug/L	0.022	1	16	3977	0
[	Ba	137	1.513	ug/L	0.019	1	21	6601	0
[>	Tb	159		ug/L			395846	376965	1
[	Tl	205	0.001	ug/L	0.000	6	25	58	4
[	Pb	208	0.036	ug/L	0.001	2	201	1604	3
[	Bi	209		ug/L			342389	331988	0
[	Th	232	0.008	ug/L	0.001	11	203	605	6
[	U	238	0.035	ug/L	0.002	4	20	2001	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 F REN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 09, 2011 15:39:48
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			356289	354325	1
⌊	Be	9	-0.001	ug/L	0.002	192	3	2	24
	C	13		mg/L			4456	4848	1
	Cl	37		mg/L			2690010	2772133	0
⌈>	Sc	45		ug/L			264393	257934	0
|	V-1	51	0.143	ug/L	0.014	9	2140	3807	4
|	V	51	0.147	ug/L	0.009	5	975	2759	3
|	Cr	52	0.026	ug/L	0.016	60	6591	6705	2
|	Cr	53	0.047	ug/L	0.034	72	372	422	10
|	Mn	55	9.552	ug/L	0.037	0	350	168254	0
⌊	Co	59	0.070	ug/L	0.001	1	42	1005	2
⌈>	Ge	72		ug/L			385276	358817	1
|	Ni	60	0.265	ug/L	0.009	3	45	780	3
|	Ni	62	0.193	ug/L	0.032	16	62	140	8
|	Cu	63	0.119	ug/L	0.005	4	180	941	3
|	Cu	65	0.084	ug/L	0.003	3	100	360	3
|	Zn	66	1.177	ug/L	0.038	3	348	2767	4
|	Zn	67	1.130	ug/L	0.137	12	70	460	9
|	Zn	68	1.011	ug/L	0.047	4	9052	9914	0
|	As-1	75	104.647	ug/L	0.473	0	-30	198215	1
|	As	75	103.699	ug/L	0.563	0	10544	207732	0
|	Se	82	0.068	ug/L	0.019	27	0	13	27
|	Se	78	-0.642	ug/L	0.376	58	10737	9685	0
⌊	Mo	98	1.098	ug/L	0.028	2	1921	8907	3
	Y	89		ug/L			294548	271592	1
	Kr	83		ug/L			77	66	2
⌈>	In	115		ug/L			417878	398992	0
|	Ag	107	0.002	ug/L	0.001	42	26	48	19
|	Cd	111	0.023	ug/L	0.005	19	162	228	5
|	Cd	114	0.012	ug/L	0.001	9	14	102	7
|	Sb	121	0.030	ug/L	0.003	11	32	373	9
|	Sb	123	0.030	ug/L	0.003	8	25	279	8
|	Ba	135	0.766	ug/L	0.033	4	16	2008	4
⌊	Ba	137	0.788	ug/L	0.022	2	21	3463	2
⌈>	Tb	159		ug/L			395846	377986	0
|	Tl	205	0.001	ug/L	0.000	11	25	52	6
|	Pb	208	0.016	ug/L	0.000	3	201	808	2
|	Bi	209		ug/L			342389	331966	0
|	Th	232	0.003	ug/L	0.001	27	203	352	12
⌊	U	238	0.020	ug/L	0.001	5	20	1134	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 G REN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 09, 2011 15:46:20
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	364687	1
[	Be	9	-0.000	ug/L	0.006	2906	3	3	78
	C	13		mg/L			4456	4719	1
	Cl	37		mg/L			2690010	2771086	0
[>	Sc	45		ug/L			264393	257881	0
[	V-1	51	0.259	ug/L	0.011	4	2140	5199	2
[	V	51	0.268	ug/L	0.012	4	975	4232	3
[	Cr	52	0.028	ug/L	0.003	8	6591	6726	0
[	Cr	53	0.069	ug/L	0.015	21	372	450	4
[	Mn	55	77.131	ug/L	0.149	0	350	1355952	0
[	Co	59	0.032	ug/L	0.002	5	42	476	5
[>	Ge	72		ug/L			385276	364885	0
[	Ni	60	0.155	ug/L	0.006	3	45	483	4
[	Ni	62	0.094	ug/L	0.019	20	62	100	7
[	Cu	63	0.145	ug/L	0.000	0	180	1128	0
[	Cu	65	0.113	ug/L	0.006	5	100	459	4
[	Zn	66	0.447	ug/L	0.008	1	348	1273	2
[	Zn	67	0.457	ug/L	0.052	11	70	229	7
[	Zn	68	0.086	ug/L	0.047	54	9052	8702	1
[	As-1	75	107.984	ug/L	0.559	0	-30	208000	0
[	As	75	106.967	ug/L	0.567	0	10544	217593	0
[	Se	82	0.087	ug/L	0.034	39	0	17	37
[	Se	78	-0.803	ug/L	0.056	7	10737	9770	0
[	Mo	98	-0.199	ug/L	0.001	0	1921	505	1
	Y	89		ug/L			294548	276158	0
	Kr	83		ug/L			77	66	2
[>	In	115		ug/L			417878	401292	1
[	Ag	107	0.001	ug/L	0.000	33	26	43	15
[	Cd	111	0.022	ug/L	0.013	58	162	224	17
[	Cd	114	0.006	ug/L	0.001	15	14	63	11
[	Sb	121	0.010	ug/L	0.001	11	32	141	8
[	Sb	123	0.011	ug/L	0.001	5	25	122	5
[	Ba	135	0.343	ug/L	0.014	3	16	912	4
[	Ba	137	0.373	ug/L	0.006	1	21	1659	2
[>	Tb	159		ug/L			395846	383072	1
[	Tl	205	0.001	ug/L	0.000	16	25	48	9
[	Pb	208	0.007	ug/L	0.000	4	201	464	3
[	Bi	209		ug/L			342389	339375	0
[	Th	232	0.003	ug/L	0.001	25	203	357	12
[	U	238	0.022	ug/L	0.001	4	20	1295	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 ADUP SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 09, 2011 15:52:52
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	366396	0
	Be	9	0.125	ug/L	0.039	30	3	55	29
	C	13		mg/L			4456	7398	1
	Cl	37		mg/L			2690010	2806079	0
>	Sc	45		ug/L			264393	287148	0
	V-1	51	22.790	ug/L	0.123	0	2140	306832	0
	V	51	22.538	ug/L	0.125	0	975	308513	0
	Cr	52	9.985	ug/L	0.056	0	6591	123220	0
	Cr	53	10.018	ug/L	0.040	0	372	14461	0
	Mn	55	213.045	ug/L	1.103	0	350	4169700	0
	Co	59	4.152	ug/L	0.012	0	42	63610	0
>	Ge	72		ug/L			385276	375419	0
	Ni	60	8.756	ug/L	0.088	1	45	25605	0
	Ni	62	13.007	ug/L	0.049	0	62	5894	0
	Cu	63	15.278	ug/L	0.086	0	180	104318	0
	Cu	65	15.568	ug/L	0.167	1	100	51679	0
	Zn	66	45.927	ug/L	0.558	1	348	100004	1
	Zn	67	44.226	ug/L	0.381	0	70	16248	0
	Zn	68	45.043	ug/L	0.197	0	9052	78028	0
	As-1	75	2.968	ug/L	0.007	0	-30	5853	0
	As	75	2.703	ug/L	0.028	1	10544	15672	0
	Se	82	U 0.058	ug/L	0.017	28	0	12	26
	Se	78	-0.810	ug/L	0.083	10	10737	10049	0
	Mo	98	-0.159	ug/L	0.001	0	1921	796	0
	Y	89		ug/L			294548	389197	1
	Kr	83		ug/L			77	92	4
>	In	115		ug/L			417878	410542	0
	Ag	107	0.115	ug/L	0.004	3	26	1526	3
	Cd	111	0.285	ug/L	0.026	9	162	1090	7
	Cd	114	0.130	ug/L	0.005	4	14	1027	4
	Sb	121	0.010	ug/L	0.000	2	32	144	2
	Sb	123	0.008	ug/L	0.000	5	25	99	4
	Ba	135	54.135	ug/L	0.354	0	16	144880	0
	Ba	137	54.468	ug/L	0.182	0	21	244800	0
>	Tb	159		ug/L			395846	391895	0
	Tl	205	0.041	ug/L	0.001	2	25	1247	2
	Pb	208	7.912	ug/L	0.041	0	201	321016	0
	Bi	209		ug/L			342389	346064	0
	Th	232	1.200	ug/L	0.015	1	203	67287	0
	U	238	0.264	ug/L	0.005	1	20	15641	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 A SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 09, 2011 15:59:25
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			356289	366926	0
[	**Be**	**9**	**0.163**	ug/L	0.018	11	3	71	11
	C	**13**		mg/L			4456	7224	0
	Cl	**37**		mg/L			2690010	2788964	0
[>	**Sc**	**45**		ug/L			264393	289211	0
[	**V-1**	**51**	**22.861**	ug/L	0.171	0	2140	309988	0
[	**V**	**51**	**22.553**	ug/L	0.165	0	975	310935	0
[	**Cr**	**52**	**9.852**	ug/L	0.027	0	6591	122546	0
[	**Cr**	**53**	**9.725**	ug/L	0.192	1	372	14150	1
[	**Mn**	**55**	**208.696**	ug/L	1.651	0	350	4113798	0
[	**Co**	**59**	**4.075**	ug/L	0.041	1	42	62869	1
[>	**Ge**	**72**		ug/L			385276	376658	0
[	**Ni**	**60**	**8.651**	ug/L	0.120	1	45	25384	1
[	**Ni**	**62**	**12.410**	ug/L	0.147	1	62	5645	0
[	**Cu**	**63**	**14.832**	ug/L	0.077	0	180	101608	0
[	**Cu**	**65**	**14.994**	ug/L	0.216	1	100	49943	1
[	**Zn**	**66**	**49.124**	ug/L	0.526	1	348	107298	1
[	**Zn**	**67**	**47.957**	ug/L	0.318	0	70	17671	0
[	**Zn**	**68**	**48.696**	ug/L	0.491	1	9052	83915	0
[	**As-1**	**75**	**3.175**	ug/L	0.039	1	-30	6282	0
[	**As**	**75**	**2.903**	ug/L	0.064	2	10544	16124	0
[	**Se**	**82**	**0.062**	ug/L	0.094	150	0	12	142
[	**Se**	**78**	**-0.844**	ug/L	0.136	16	10737	10065	0
[	**Mo**	**98**	**-0.172**	ug/L	0.003	1	1921	708	3
	Y	**89**		ug/L			294548	390029	0
	Kr	**83**		ug/L			77	88	12
[>	**In**	**115**		ug/L			417878	408128	1
[	**Ag**	**107**	**0.088**	ug/L	0.004	4	26	1174	6
[	**Cd**	**111**	**0.261**	ug/L	0.004	1	162	1005	2
[	**Cd**	**114**	**0.095**	ug/L	0.002	2	14	749	2
[	**Sb**	**121**	**0.011**	ug/L	0.000	3	32	160	3
[	**Sb**	**123**	**0.011**	ug/L	0.001	6	25	121	5
[	**Ba**	**135**	**51.571**	ug/L	0.778	1	16	137192	0
[	**Ba**	**137**	**51.524**	ug/L	0.478	0	21	230192	0
[>	**Tb**	**159**		ug/L			395846	394354	0
[	**Tl**	**205**	**0.036**	ug/L	0.001	2	25	1106	2
[	**Pb**	**208**	**8.237**	ug/L	0.024	0	201	336288	0
[	**Bi**	**209**		ug/L			342389	346818	0
[	**Th**	**232**	**0.908**	ug/L	0.008	0	203	51290	0
[	**U**	**238**	**0.217**	ug/L	0.006	2	20	12933	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 ASPK SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 09, 2011 16:05:58
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			356289	379550	1
⌊	Be	9	23.886	ug/L	0.403	1	3	10359	0
	C	13		mg/L			4456	6735	0
	Cl	37		mg/L			2690010	2753451	0
⌈>	Sc	45		ug/L			264393	289427	0
|	V-1	51	45.976	ug/L	0.267	0	2140	621526	0
|	V	51	45.731	ug/L	0.359	0	975	629875	1
|	Cr	52	31.448	ug/L	0.436	1	6591	375656	0
|	Cr	53	31.615	ug/L	0.297	0	372	45119	0
|	Mn	55	230.156	ug/L	0.734	0	350	4540276	0
⌊	Co	59	26.037	ug/L	0.301	1	42	401756	0
⌈>	Ge	72		ug/L			385276	372512	0
|	Ni	60	33.682	ug/L	0.337	1	45	97607	0
|	Ni	62	37.796	ug/L	0.381	1	62	16880	0
|	Cu	63	39.485	ug/L	0.424	1	180	267233	0
|	Cu	65	39.416	ug/L	0.138	0	100	129687	0
|	Zn	66	119.336	ug/L	1.322	1	348	257295	0
|	Zn	67	113.161	ug/L	0.859	0	70	41145	0
|	Zn	68	118.406	ug/L	0.285	0	9052	189268	0
|	As-1	75	27.156	ug/L	0.054	0	-30	53380	0
|	As	75	27.081	ug/L	0.182	0	10544	63854	0
|	Se	82	77.501	ug/L	0.180	0	0	14977	0
|	Se	78	75.796	ug/L	0.564	0	10737	48712	0
⌊	Mo	98	-0.147	ug/L	0.003	1	1921	865	1
	Y	89		ug/L			294548	391827	0
	Kr	83		ug/L			77	92	4
⌈>	In	115		ug/L			417878	409039	0
|	Ag	107	22.888	ug/L	0.201	0	26	298161	0
|	Cd	111	24.554	ug/L	0.151	0	162	80110	0
|	Cd	114	24.378	ug/L	0.134	0	14	189112	0
|	Sb	121	0.008	ug/L	0.001	9	32	127	6
|	Sb	123	0.009	ug/L	0.001	13	25	104	10
|	Ba	135	76.438	ug/L	0.322	0	16	203814	0
⌊	Ba	137	76.767	ug/L	0.377	0	21	343755	0
⌈>	Tb	159		ug/L			395846	398615	0
|	Tl	205	23.260	ug/L	0.061	0	25	705684	0
|	Pb	208	30.161	ug/L	0.049	0	201	1244176	0
|	Bi	209		ug/L			342389	349371	0
|	Th	232	24.039	ug/L	0.154	0	203	1367334	0
⌊	U	238	23.290	ug/L	0.099	0	20	1400644	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 16:12:32
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	344339	1
	Be	9	50.479	ug/L	0.810	1	3	19858	0
	C	13		mg/L			4456	3692	1
	Cl	37		mg/L			2690010	2806803	0
>	Sc	45		ug/L			264393	246363	0
	V-1	51	50.376	ug/L	0.272	0	2140	579488	0
	V	51	50.480	ug/L	0.277	0	975	591724	0
	Cr	52	50.771	ug/L	0.294	0	6591	512480	0
	Cr	53	51.067	ug/L	0.372	0	372	61823	0
	Mn	55	51.046	ug/L	0.246	0	350	857417	0
	Co	59	50.980	ug/L	0.453	0	42	669566	0
>	Ge	72		ug/L			385276	359920	0
	Ni	60	51.425	ug/L	0.035	0	45	143972	0
	Ni	62	50.627	ug/L	0.164	0	62	21827	0
	Cu	63	51.684	ug/L	0.106	0	180	337921	0
	Cu	65	51.065	ug/L	0.099	0	100	162311	0
	Zn	66	50.792	ug/L	0.794	1	348	105996	1
	Zn	67	51.953	ug/L	0.779	1	70	18287	1
	Zn	68	51.292	ug/L	0.314	0	9052	84010	0
	As-1	75	50.296	ug/L	0.293	0	-30	95548	0
	As	75	50.142	ug/L	0.368	0	10544	105846	0
	Se	82	50.695	ug/L	0.179	0	0	9466	0
	Se	78	50.086	ug/L	0.350	0	10737	34503	0
	Mo	98	50.970	ug/L	0.375	0	1921	333082	0
	Y	89		ug/L			294548	274909	0
	Kr	83		ug/L			77	78	1
>	In	115		ug/L			417878	389122	0
	Ag	107	50.831	ug/L	0.242	0	26	629886	0
	Cd	111	50.322	ug/L	0.210	0	162	156029	0
	Cd	114	50.193	ug/L	0.588	1	14	370384	0
	Sb	121	50.071	ug/L	0.288	0	32	556538	0
	Sb	123	50.102	ug/L	0.171	0	25	419818	0
	Ba	135	49.118	ug/L	0.215	0	16	124594	0
	Ba	137	49.342	ug/L	0.215	0	21	210188	0
>	Tb	159		ug/L			395846	369243	0
	Tl	205	48.941	ug/L	0.501	1	25	1375302	0
	Pb	208	49.968	ug/L	0.277	0	201	1909150	0
	Bi	209		ug/L			342389	325344	0
	Th	232	51.971	ug/L	0.524	1	203	2737965	0
	U	238	52.164	ug/L	0.720	1	20	2905658	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 16:19:44
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			356289	360282	1
⌊	Be	9	0.002	ug/L	0.005	243	3	4	45
	C	13		mg/L			4456	4215	1
	Cl	37		mg/L			2690010	2850873	0
⌈>	Sc	45		ug/L			264393	255044	0
|	V-1	51	-0.001	ug/L	0.006	525	2140	2052	3
|	V	51	-0.002	ug/L	0.004	164	975	914	5
|	Cr	52	-0.001	ug/L	0.006	791	6591	6351	0
|	Cr	53	-0.004	ug/L	0.014	310	372	353	4
|	Mn	55	0.010	ug/L	0.001	12	350	510	3
⌊	Co	59	0.004	ug/L	0.001	30	42	100	18
⌈>	Ge	72		ug/L			385276	370820	0
|	Ni	60	-0.000	ug/L	0.003	1004	45	42	18
|	Ni	62	0.002	ug/L	0.022	1380	62	60	15
|	Cu	63	0.001	ug/L	0.003	250	180	182	11
|	Cu	65	-0.001	ug/L	0.002	154	100	92	7
|	Zn	66	-0.072	ug/L	0.006	9	348	182	7
|	Zn	67	-0.037	ug/L	0.001	3	70	54	1
|	Zn	68	-0.215	ug/L	0.035	16	9052	8386	1
|	As-1	75	0.002	ug/L	0.015	717	-30	-25	116
|	As	75	0.009	ug/L	0.038	435	10544	10166	0
|	Se	82	0.023	ug/L	0.029	130	0	4	113
|	Se	78	0.038	ug/L	0.111	289	10737	10353	0
⌊	Mo	98	-0.256	ug/L	0.001	0	1921	134	4
	Y	89		ug/L			294548	285170	0
	Kr	83		ug/L			77	72	2
⌈>	In	115		ug/L			417878	407347	0
|	Ag	107	0.010	ug/L	0.001	5	26	154	4
|	Cd	111	0.017	ug/L	0.002	10	162	213	3
|	Cd	114	0.002	ug/L	0.001	42	14	33	24
|	Sb	121	0.019	ug/L	0.004	18	32	251	15
|	Sb	123	0.019	ug/L	0.002	10	25	192	8
|	Ba	135	0.001	ug/L	0.002	212	16	19	32
⌊	Ba	137	0.004	ug/L	0.001	19	21	40	9
⌈>	Tb	159		ug/L			395846	385170	0
|	Tl	205	0.004	ug/L	0.000	4	25	152	4
|	Pb	208	0.005	ug/L	0.000	5	201	383	2
|	Bi	209		ug/L			342389	340353	0
|	Th	232	0.037	ug/L	0.003	6	203	2243	5
⌊	U	238	0.006	ug/L	0.000	4	20	340	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 16:26:57
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			356289	358051	0
[	Be	9	0.002		ug/L	0.005	233	3	4	45
	C	13			mg/L			4456	5555	4
	Cl	37			mg/L			2690010	2833570	0
[>	Sc	45			ug/L			264393	249726	0
[	V-1	51	0.025		ug/L	0.010	38	2140	2317	4
[	V	51	0.011		ug/L	0.002	14	975	1048	2
[	Cr	52		U	0.068	ug/L	0.010	15	6591	6913	1
[	Cr	53	0.019		ug/L	0.026	137	372	375	9
[	Mn	55	0.221		ug/L	0.006	2	350	4088	2
[	Co	59	0.006		ug/L	0.002	30	42	124	20
[>	Ge	72			ug/L			385276	366210	0
[	Ni	60		U	0.022	ug/L	0.002	7	45	106	4
[	Ni	62	0.066		ug/L	0.009	13	62	88	4
[	Cu	63		U	0.055	ug/L	0.006	10	180	534	6
[	Cu	65	0.055		ug/L	0.009	15	100	273	10
[	Zn	66		U	0.381	ug/L	0.007	1	348	1138	1
[	Zn	67	0.404		ug/L	0.026	6	70	211	4
[	Zn	68	0.388		ug/L	0.043	11	9052	9186	0
[	As-1	75		U	0.016	ug/L	0.008	50	-30	1	1440
[	As	75	0.115		ug/L	0.049	42	10544	10246	0
[	Se	82		U	0.044	ug/L	0.030	68	0	9	63
[	Se	78	0.424		ug/L	0.206	48	10737	10416	1
[	Mo	98	-0.254		ug/L	0.004	1	1921	147	18
	Y	89			ug/L			294548	282488	0
	Kr	83			ug/L			77	72	2
[>	In	115			ug/L			417878	402687	0
[	Ag	107		U	0.005	ug/L	0.000	7	26	87	5
[	Cd	111	0.017		ug/L	0.003	15	162	211	3
[	Cd	114		U	0.003	ug/L	0.002	59	14	35	35
[	Sb	121	0.010		ug/L	0.002	22	32	143	17
[	Sb	123	0.010		ug/L	0.002	20	25	108	15
[	Ba	135	0.022		ug/L	0.007	31	16	75	24
[	Ba	137	0.024		ug/L	0.002	8	21	125	7
[>	Tb	159			ug/L			395846	381462	0
[	Tl	205	0.002		ug/L	0.001	31	25	91	23
[	Pb	208	0.025		ug/L	0.002	6	201	1183	4
[	Bi	209		U	ug/L			342389	335758	0
[	Th	232	0.014		ug/L	0.001	4	203	955	4
[	U	238	0.002		ug/L	0.000	27	20	109	22

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 MB2 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 16:33:31
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6			ug/L			356289	356413	0
	Be	9		-0.001	ug/L	0.002	174	3	2	24
	C	13			mg/L			4456	6020	2
	Cl	37			mg/L			2690010	2835604	0
>	Sc	45			ug/L			264393	250387	0
	V-1	51		0.025	ug/L	0.008	32	2140	2320	3
	V	51		0.005	ug/L	0.002	54	975	978	2
	Cr	52	U	0.072	ug/L	0.009	11	6591	6968	1
	Cr	53		0.005	ug/L	0.026	564	372	358	8
	Mn	55		0.034	ug/L	0.001	2	350	915	1
	Co	59		0.003	ug/L	0.001	28	42	75	13
>	Ge	72	U		ug/L			385276	362757	0
	Ni	60		0.012	ug/L	0.004	31	45	75	13
	Ni	62		0.034	ug/L	0.008	24	62	73	4
	Cu	63	U	0.038	ug/L	0.003	6	180	417	4
	Cu	65		0.035	ug/L	0.006	16	100	205	8
	Zn	66	U	0.132	ug/L	0.022	16	348	605	7
	Zn	67		0.142	ug/L	0.046	32	70	116	14
	Zn	68		0.143	ug/L	0.041	28	9052	8735	0
	As-1	75	U	0.006	ug/L	0.006	93	-30	-16	68
	As	75		0.136	ug/L	0.047	34	10544	10191	0
	Se	82	U	0.062	ug/L	0.015	24	0	12	23
	Se	78		0.550	ug/L	0.173	31	10737	10380	0
	Mo	98		-0.264	ug/L	0.001	0	1921	82	8
	Y	89			ug/L			294548	281122	0
	Kr	83			ug/L			77	69	4
>	In	115			ug/L			417878	400441	1
	Ag	107	U	0.003	ug/L	0.000	3	26	63	3
	Cd	111		0.019	ug/L	0.003	12	162	217	4
	Cd	114	U	-0.000	ug/L	0.000	556	14	13	21
	Sb	121		0.003	ug/L	0.000	10	32	70	5
	Sb	123		0.004	ug/L	0.000	6	25	62	5
	Ba	135		0.011	ug/L	0.001	12	16	44	8
	Ba	137		0.014	ug/L	0.004	29	21	82	22
>	Tb	159			ug/L			395846	379005	0
	Tl	205		0.001	ug/L	0.000	37	25	61	22
	Pb	208	U	0.007	ug/L	0.000	4	201	464	2
	Bi	209			ug/L			342389	335052	0
	Th	232		0.015	ug/L	0.001	8	203	998	6
	U	238		0.001	ug/L	0.000	27	20	63	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 MB2SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 16:40:06
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			356289	369034	0
⌊	Be	9	24.432	ug/L	0.395	1	3	10303	1
	C	13		mg/L			4456	6640	1
	Cl	37		mg/L			2690010	2816163	0
⌈>	Sc	45		ug/L			264393	252084	1
|	V-1	51	25.988	ug/L	0.270	1	2140	306862	1
|	V	51	25.953	ug/L	0.201	0	975	311725	1
|	Cr	52	25.952	ug/L	0.177	0	6591	271106	0
|	Cr	53	25.846	ug/L	0.193	0	372	32190	0
|	Mn	55	26.592	ug/L	0.134	0	350	457187	1
⌊	Co	59	26.887	ug/L	0.501	1	42	361306	0
⌈>	Ge	72		ug/L			385276	364807	0
|	Ni	60	27.178	ug/L	0.095	0	45	77142	0
|	Ni	62	26.642	ug/L	0.176	0	62	11670	1
|	Cu	63	27.830	ug/L	0.135	0	180	184501	0
|	Cu	65	27.687	ug/L	0.548	1	100	89233	1
|	Zn	66	80.328	ug/L	0.819	1	348	169712	0
|	Zn	67	74.260	ug/L	0.775	1	70	26465	0
|	Zn	68	79.660	ug/L	0.672	0	9052	127500	0
|	As-1	75	24.857	ug/L	0.236	0	-30	47846	0
|	As	75	25.018	ug/L	0.115	0	10544	58532	0
|	Se	82	77.569	ug/L	1.272	1	0	14679	0
|	Se	78	76.627	ug/L	0.368	0	10737	48116	0
⌊	Mo	98	-0.261	ug/L	0.002	0	1921	97	10
	Y	89		ug/L			294548	285719	0
	Kr	83		ug/L			77	73	6
⌈>	In	115		ug/L			417878	405028	0
|	Ag	107	26.464	ug/L	0.561	2	26	341351	1
|	Cd	111	25.249	ug/L	0.259	1	162	81563	0
|	Cd	114	25.214	ug/L	0.397	1	14	193675	1
|	Sb	121	0.005	ug/L	0.000	7	32	89	5
|	Sb	123	0.006	ug/L	0.002	30	25	74	19
|	Ba	135	25.404	ug/L	0.188	0	16	67082	0
⌊	Ba	137	25.261	ug/L	0.298	1	21	112024	1
⌈>	Tb	159		ug/L			395846	384435	1
|	Tl	205	25.119	ug/L	0.096	0	25	734999	1
|	Pb	208	26.002	ug/L	0.201	0	201	1034412	0
|	Bi	209		ug/L			342389	342696	0
|	Th	232	24.931	ug/L	0.134	0	203	1367599	0
⌊	U	238	24.998	ug/L	0.158	0	20	1449784	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 16:46:41
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	361943	1
[	Be	9	24.706	ug/L	0.306	1	3	10218	1
	C	13		mg/L			4456	6372	1
	Cl	37		mg/L			2690010	2807596	0
[>	Sc	45		ug/L			264393	251058	0
|	V-1	51	25.472	ug/L	0.126	0	2140	299596	0
|	V	51	25.440	ug/L	0.226	0	975	304344	0
|	Cr	52	25.408	ug/L	0.100	0	6591	264482	0
|	Cr	53	25.313	ug/L	0.351	1	372	31404	0
|	Mn	55	26.097	ug/L	0.182	0	350	446867	0
[	Co	59	26.530	ug/L	0.056	0	42	355111	0
[>	Ge	72		ug/L			385276	363669	0
|	Ni	60	26.693	ug/L	0.440	1	45	75524	0
|	Ni	62	26.860	ug/L	0.521	1	62	11727	1
|	Cu	63	27.494	ug/L	0.245	0	180	181703	0
|	Cu	65	27.525	ug/L	0.233	0	100	88438	0
|	Zn	66	82.597	ug/L	1.095	1	348	173950	0
|	Zn	67	76.743	ug/L	0.879	1	70	27262	0
|	Zn	68	81.308	ug/L	1.312	1	9052	129550	0
|	As-1	75	24.797	ug/L	0.220	0	-30	47580	0
|	As	75	24.962	ug/L	0.188	0	10544	58238	0
|	Se	82	79.468	ug/L	1.138	1	0	14992	0
|	Se	78	78.515	ug/L	1.029	1	10737	48897	0
[	Mo	98	-0.264	ug/L	0.001	0	1921	78	8
	Y	89		ug/L			294548	281047	0
	Kr	83		ug/L			77	79	4
[>	In	115		ug/L			417878	403551	0
|	Ag	107	25.790	ug/L	0.162	0	26	331453	0
|	Cd	111	25.254	ug/L	0.096	0	162	81286	0
|	Cd	114	24.980	ug/L	0.082	0	14	191181	0
|	Sb	121	0.004	ug/L	0.001	29	32	73	17
|	Sb	123	0.004	ug/L	0.001	29	25	55	16
|	Ba	135	24.953	ug/L	0.227	0	16	65652	0
[	Ba	137	25.043	ug/L	0.076	0	21	110648	0
[>	Tb	159		ug/L			395846	384435	0
|	Tl	205	24.449	ug/L	0.187	0	25	715346	0
|	Pb	208	25.431	ug/L	0.078	0	201	1011749	0
|	Bi	209		ug/L			342389	337323	0
|	Th	232	24.435	ug/L	0.233	0	203	1340367	0
[	U	238	24.379	ug/L	0.071	0	20	1413977	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 16:53:16
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	361964	1
[	Be	9	0.137	ug/L	0.024	17	3	60	16
	C	13		mg/L			4456	9324	0
	Cl	37		mg/L			2690010	2559953	1
[>	Sc	45		ug/L			264393	284716	1
[	V-1	51	68.827	ug/L	0.547	0	2140	914095	1
[	V	51	67.579	ug/L	0.477	0	975	915100	0
[	Cr	52	7.999	ug/L	0.105	1	6591	99286	1
[	Cr	53	8.006	ug/L	0.091	1	372	11540	2
[	Mn	55	192.635	ug/L	0.625	0	350	3738262	1
[	Co	59	4.317	ug/L	0.033	0	42	65559	0
[>	Ge	72		ug/L			385276	355329	0
[	Ni	60	11.445	ug/L	0.132	1	45	31663	0
[	Ni	62	12.477	ug/L	0.266	2	62	5353	1
[	Cu	63	90.665	ug/L	0.562	0	180	585092	0
[	Cu	65	90.097	ug/L	0.354	0	100	282642	0
[	Zn	66	301.921	ug/L	1.481	0	348	620440	0
[	Zn	67	280.279	ug/L	2.715	0	70	97113	0
[	Zn	68	301.208	ug/L	0.564	0	9052	446374	0
[	As-1	75	7.016	ug/L	0.029	0	-30	13133	0
[	As	75	6.879	ug/L	0.036	0	10544	22727	0
[	Se	82	0.326	ug/L	0.079	24	0	60	23
[	Se	78	0.139	ug/L	0.029	20	10737	9969	0
[	Mo	98	1.250	ug/L	0.012	0	1921	9791	0
	Y	89		ug/L			294548	498467	0
	Kr	83		ug/L			77	100	7
[>	In	115		ug/L			417878	391446	0
[	Ag	107	0.208	ug/L	0.002	0	26	2618	0
[	Cd	111	2.743	ug/L	0.029	1	162	8701	1
[	Cd	114	2.698	ug/L	0.047	1	14	20044	1
[	Sb	121	1.081	ug/L	0.012	1	32	12116	1
[	Sb	123	1.095	ug/L	0.017	1	25	9253	1
[	Ba	135	116.068	ug/L	1.222	1	16	296154	0
[	Ba	137	117.020	ug/L	0.753	0	21	501450	0
[>	Tb	159		ug/L			395846	392155	0
[	Tl	205	0.079	ug/L	0.004	5	25	2393	5
[	Pb	208	132.482	ug/L	0.726	0	201	5375717	0
[	Bi	209		ug/L			342389	333566	0
[	Th	232	0.299	ug/L	0.015	5	203	16953	4
[	U	238	0.308	ug/L	0.004	1	20	18250	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 16:59:52
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	362784	1
	Be	9	0.015	ug/L	0.005	31	3	9	19
	C	13		mg/L			4456	6815	1
	Cl	37		mg/L			2690010	2540929	0
>	Sc	45		ug/L			264393	251258	0
	V-1	51	6.438	ug/L	0.061	0	2140	77304	0
	V	51	6.337	ug/L	0.067	1	975	76572	1
	Cr	52	1.309	ug/L	0.038	2	6591	19576	1
	Cr	53	1.323	ug/L	0.022	1	372	1977	1
	Mn	55	96.948	ug/L	1.106	1	350	1660461	1
	Co	59	0.656	ug/L	0.004	0	42	8823	0
>	Ge	72		ug/L			385276	347253	0
	Ni	60	2.207	ug/L	0.053	2	45	5998	1
	Ni	62	2.110	ug/L	0.074	3	62	931	3
	Cu	63	10.391	ug/L	0.024	0	180	65677	0
	Cu	65	10.379	ug/L	0.024	0	100	31899	0
	Zn	66	67.182	ug/L	0.613	0	348	135161	0
	Zn	67	60.945	ug/L	0.659	1	70	20685	0
	Zn	68	66.421	ug/L	0.370	0	9052	102553	0
	As-1	75	1.437	ug/L	0.026	1	-30	2607	1
	As	75	1.402	ug/L	0.061	4	10544	12093	0
	Se	82	0.304	ug/L	0.076	25	0	55	24
	Se	78	0.192	ug/L	0.184	96	10737	9767	0
	Mo	98	0.606	ug/L	0.002	0	1921	5533	0
	Y	89		ug/L			294548	282602	0
	Kr	83		ug/L			77	68	8
>	In	115		ug/L			417878	387889	0
	Ag	107	0.026	ug/L	0.003	13	26	342	12
	Cd	111	0.420	ug/L	0.015	3	162	1446	2
	Cd	114	0.393	ug/L	0.006	1	14	2905	1
	Sb	121	0.815	ug/L	0.001	0	32	9057	0
	Sb	123	0.827	ug/L	0.013	1	25	6932	1
	Ba	135	9.589	ug/L	0.135	1	16	24256	0
	Ba	137	9.666	ug/L	0.076	0	21	41059	0
>	Tb	159		ug/L			395846	379192	0
	Tl	205	0.023	ug/L	0.002	6	25	678	5
	Pb	208	6.003	ug/L	0.045	0	201	235703	0
	Bi	209		ug/L			342389	330216	0
	Th	232	0.040	ug/L	0.001	2	203	2368	1
	U	238	0.047	ug/L	0.001	2	20	2721	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 17:06:29
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	368339	1
[	Be	9	0.013	ug/L	0.003	24	3	8	14
	C	13		mg/L			4456	7188	0
	Cl	37		mg/L			2690010	2553400	0
[>	Sc	45		ug/L			264393	251787	0
|	V-1	51	4.859	ug/L	0.075	1	2140	58961	1
|	V	51	4.825	ug/L	0.053	1	975	58647	0
|	Cr	52	1.975	ug/L	0.072	3	6591	26408	2
|	Cr	53	2.055	ug/L	0.045	2	372	2883	1
|	Mn	55	196.095	ug/L	1.764	0	350	3365275	0
[	Co	59	0.443	ug/L	0.007	1	42	5981	1
[>	Ge	72		ug/L			385276	346998	0
|	Ni	60	1.759	ug/L	0.042	2	45	4787	2
|	Ni	62	1.781	ug/L	0.070	3	62	794	3
|	Cu	63	10.013	ug/L	0.024	0	180	63247	0
|	Cu	65	9.877	ug/L	0.143	1	100	30338	1
|	Zn	66	62.373	ug/L	0.130	0	348	125422	0
|	Zn	67	56.544	ug/L	0.376	0	70	19183	0
|	Zn	68	61.823	ug/L	0.611	0	9052	95951	0
|	As-1	75	1.510	ug/L	0.031	2	-30	2738	1
|	As	75	1.489	ug/L	0.047	3	10544	12245	0
|	Se	82	0.155	ug/L	0.035	22	0	28	21
|	Se	78	0.098	ug/L	0.150	153	10737	9716	0
[	Mo	98	0.336	ug/L	0.007	2	1921	3835	1
	Y	89		ug/L			294548	282709	0
	Kr	83		ug/L			77	67	10
[>	In	115		ug/L			417878	385838	1
|	Ag	107	0.025	ug/L	0.001	5	26	337	6
|	Cd	111	0.471	ug/L	0.005	1	162	1596	1
|	Cd	114	0.443	ug/L	0.004	0	14	3257	1
|	Sb	121	1.514	ug/L	0.017	1	32	16711	1
|	Sb	123	1.522	ug/L	0.013	0	25	12667	1
|	Ba	135	10.668	ug/L	0.100	0	16	26843	1
[	Ba	137	10.769	ug/L	0.178	1	21	45497	0
[>	Tb	159		ug/L			395846	379094	0
|	Tl	205	0.014	ug/L	0.000	2	25	422	2
|	Pb	208	5.569	ug/L	0.059	1	201	218633	0
|	Bi	209		ug/L			342389	326338	0
|	Th	232	0.038	ug/L	0.001	2	203	2223	1
[	U	238	0.034	ug/L	0.001	1	20	1944	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 17:13:06
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	372805	0
	Be	9	-0.000	ug/L	0.004	1241	3	3	57
	C	13		mg/L			4456	6294	1
	Cl	37		mg/L			2690010	2474199	0
>	Sc	45		ug/L			264393	245806	1
	V-1	51	1.268	ug/L	0.012	0	2140	16491	0
	V	51	1.249	ug/L	0.016	1	975	15488	0
	Cr	52	0.185	ug/L	0.013	6	6591	7963	0
	Cr	53	0.194	ug/L	0.028	14	372	579	4
	Mn	55	45.134	ug/L	0.323	0	350	756401	0
	Co	59	0.489	ug/L	0.001	0	42	6450	1
>	Ge	72		ug/L			385276	340546	0
	Ni	60	1.656	ug/L	0.021	1	45	4425	1
	Ni	62	1.454	ug/L	0.116	7	62	647	8
	Cu	63	3.584	ug/L	0.054	1	180	22320	1
	Cu	65	3.531	ug/L	0.034	0	100	10701	0
	Zn	66	19.728	ug/L	0.188	0	348	39144	1
	Zn	67	17.821	ug/L	0.384	2	70	5976	2
	Zn	68	19.438	ug/L	0.414	2	9052	35091	1
	As-1	75	0.334	ug/L	0.010	3	-30	574	3
	As	75	0.307	ug/L	0.019	6	10544	9877	0
	Se	82	0.236	ug/L	0.004	1	0	42	1
	Se	78	0.119	ug/L	0.079	66	10737	9545	0
	Mo	98	0.426	ug/L	0.010	2	1921	4318	1
	Y	89		ug/L			294548	272126	1
	Kr	83		ug/L			77	65	8
>	In	115		ug/L			417878	380858	0
	Ag	107	0.004	ug/L	0.001	22	26	71	15
	Cd	111	0.082	ug/L	0.008	10	162	396	5
	Cd	114	0.068	ug/L	0.006	8	14	506	7
	Sb	121	0.253	ug/L	0.007	2	32	2783	3
	Sb	123	0.244	ug/L	0.005	1	25	2027	2
	Ba	135	3.664	ug/L	0.049	1	16	9109	0
	Ba	137	3.721	ug/L	0.020	0	21	15531	0
>	Tb	159		ug/L			395846	380116	0
	Tl	205	0.006	ug/L	0.000	7	25	196	7
	Pb	208	0.261	ug/L	0.002	0	201	10447	0
	Bi	209		ug/L			342389	324257	0
	Th	232	0.009	ug/L	0.001	10	203	683	7
	U	238	0.010	ug/L	0.000	4	20	570	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 17:19:39
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	372325	0
[	Be	9	0.001	ug/L	0.005	806	3	3	57
	C	13		mg/L			4456	6560	0
	Cl	37		mg/L			2690010	2446623	0
[>	Sc	45		ug/L			264393	240269	0
[	V-1	51	0.854	ug/L	0.004	0	2140	11488	1
[	V	51	0.834	ug/L	0.005	0	975	10408	0
[	Cr	52	J 0.251	ug/L	0.003	1	6591	8431	1
[	Cr	53	0.229	ug/L	0.030	12	372	607	5
[	Mn	55	61.094	ug/L	0.406	0	350	1000717	0
[	Co	59	0.252	ug/L	0.003	1	42	3270	0
[>	Ge	72		ug/L			385276	330118	0
[	Ni	60	1.358	ug/L	0.024	1	45	3525	2
[	Ni	62	1.121	ug/L	0.067	5	62	495	5
[	Cu	63	3.499	ug/L	0.070	2	180	21127	2
[	Cu	65	3.417	ug/L	0.018	0	100	10041	0
[	Zn	66	36.009	ug/L	0.141	0	348	69011	0
[	Zn	67	32.032	ug/L	0.448	1	70	10365	1
[	Zn	68	35.952	ug/L	0.292	0	9052	56329	0
[	As-1	75	0.504	ug/L	0.016	3	-30	851	3
[	As	75	0.611	ug/L	0.021	3	10544	10108	0
[	Se	82	J 0.171	ug/L	0.066	38	0	29	38
[	Se	78	0.626	ug/L	0.064	10	10737	9480	0
[	Mo	98	0.525	ug/L	0.003	0	1921	4773	0
	Y	89		ug/L			294548	268820	0
	Kr	83		ug/L			77	70	5
[>	In	115	J	ug/L			417878	375276	0
[	Ag	107	0.003	ug/L	0.001	32	26	55	18
[	Cd	111	0.165	ug/L	0.005	3	162	639	2
[	Cd	114	0.148	ug/L	0.005	3	14	1067	3
[	Sb	121	0.677	ug/L	0.011	1	32	7285	1
[	Sb	123	0.681	ug/L	0.007	1	25	5526	1
[	Ba	135	4.338	ug/L	0.032	0	16	10625	0
[	Ba	137	4.398	ug/L	0.063	1	21	18086	1
[>	Tb	159		ug/L			395846	377424	0
[	Tl	205	0.007	ug/L	0.001	10	25	230	8
[	Pb	208	0.150	ug/L	0.002	1	201	6064	0
[	Bi	209		ug/L			342389	319207	0
[	Th	232	0.007	ug/L	0.000	3	203	572	1
[	U	238	0.017	ug/L	0.000	2	20	985	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 B SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 09, 2011 17:26:09
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	374166	0
[	Be	9	0.149	ug/L	0.018	11	3	67	11
	C	13		mg/L			4456	7135	2
	Cl	37		mg/L			2690010	2484413	0
[>	Sc	45		ug/L			264393	257011	0
|	V-1	51	22.977	ug/L	0.188	0	2140	276863	1
|	V	51	22.673	ug/L	0.209	0	975	277792	1
|	Cr	52	9.334	ug/L	0.106	1	6591	103522	0
|	Cr	53	9.263	ug/L	0.031	0	372	11995	0
|	Mn	55	178.855	ug/L	0.417	0	350	3133198	0
[	Co	59	3.927	ug/L	0.035	0	42	53844	0
[>	Ge	72		ug/L			385276	343654	0
|	Ni	60	8.299	ug/L	0.077	0	45	22218	0
|	Ni	62	12.284	ug/L	0.194	1	62	5098	1
|	Cu	63	12.868	ug/L	0.037	0	180	80454	0
|	Cu	65	13.087	ug/L	0.067	0	100	39784	0
|	Zn	66	38.685	ug/L	0.158	0	348	77157	0
|	Zn	67	37.936	ug/L	0.170	0	70	12767	0
|	Zn	68	38.161	ug/L	0.236	0	9052	61746	0
|	As-1	75	2.589	ug/L	0.030	1	-30	4669	1
|	As	75	2.483	ug/L	0.042	1	10544	13944	0
|	Se	82	0.086	ug/L	0.018	21	0	15	20
|	Se	78	-0.191	ug/L	0.062	32	10737	9488	0
[	Mo	98	-0.133	ug/L	0.001	1	1921	887	1
	Y	89		ug/L			294548	368042	0
	Kr	83		ug/L			77	80	1
[>	In	115		ug/L			417878	385113	1
|	Ag	107	0.068	ug/L	0.002	3	26	855	3
|	Cd	111	0.283	ug/L	0.017	5	162	1016	4
|	Cd	114	0.088	ug/L	0.007	8	14	657	7
|	Sb	121	0.010	ug/L	0.001	14	32	137	11
|	Sb	123	0.011	ug/L	0.001	4	25	115	2
|	Ba	135	49.723	ug/L	0.779	1	16	124820	0
[	Ba	137	50.311	ug/L	0.530	1	21	212098	0
[>	Tb	159		ug/L			395846	387770	0
|	Tl	205	0.037	ug/L	0.001	2	25	1129	1
|	Pb	208	9.102	ug/L	0.072	0	201	365374	0
|	Bi	209		ug/L			342389	332153	0
|	Th	232	0.851	ug/L	0.009	1	203	47258	0
[	U	238	0.242	ug/L	0.003	1	20	14166	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 17:32:41
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	359395	0
	Be	9	49.008	ug/L	0.230	0	3	20124	0
	C	13		mg/L			4456	3519	1
	Cl	37		mg/L			2690010	2527491	0
>	Sc	45		ug/L			264393	226616	0
	V-1	51	51.163	ug/L	0.255	0	2140	541341	1
	V	51	51.128	ug/L	0.123	0	975	551276	0
	Cr	52	51.406	ug/L	0.335	0	6591	477240	1
	Cr	53	51.282	ug/L	0.269	0	372	57105	0
	Mn	55	51.438	ug/L	0.152	0	350	794731	0
	Co	59	51.991	ug/L	0.438	0	42	628106	0
>	Ge	72		ug/L			385276	334232	0
	Ni	60	51.786	ug/L	0.634	1	45	134632	1
	Ni	62	51.183	ug/L	0.552	1	62	20491	0
	Cu	63	51.920	ug/L	0.453	0	180	315235	0
	Cu	65	51.302	ug/L	0.376	0	100	151422	0
	Zn	66	51.252	ug/L	0.208	0	348	99321	0
	Zn	67	51.322	ug/L	0.972	1	70	16776	1
	Zn	68	51.377	ug/L	0.164	0	9052	78132	0
	As-1	75	50.191	ug/L	0.307	0	-30	88544	0
	As	75	50.090	ug/L	0.406	0	10544	98199	0
	Se	82	51.194	ug/L	0.450	0	0	8877	0
	Se	78	50.746	ug/L	0.886	1	10737	32340	0
	Mo	98	52.365	ug/L	0.246	0	1921	317730	0
	Y	89		ug/L			294548	263020	0
	Kr	83		ug/L			77	68	5
>	In	115		ug/L			417878	372247	0
	Ag	107	50.615	ug/L	0.791	1	26	599978	0
	Cd	111	50.719	ug/L	0.356	0	162	150444	1
	Cd	114	50.473	ug/L	0.281	0	14	356313	0
	Sb	121	49.943	ug/L	0.270	0	32	531037	0
	Sb	123	50.031	ug/L	0.427	0	25	401028	0
	Ba	135	49.519	ug/L	0.442	0	16	120160	0
	Ba	137	49.849	ug/L	0.508	1	21	203133	0
>	Tb	159		ug/L			395846	371681	1
	Tl	205	47.799	ug/L	0.477	0	25	1352044	0
	Pb	208	48.640	ug/L	0.666	1	201	1870515	0
	Bi	209		ug/L			342389	318298	0
	Th	232	50.860	ug/L	0.777	1	203	2696879	0
	U	238	51.285	ug/L	0.192	0	20	2875687	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 17:39:54
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	374976	1
[	Be	9	-0.002	ug/L	0.005	210	3	2	86
	C	13		mg/L			4456	3884	1
	Cl	37		mg/L			2690010	2575891	0
[>	Sc	45		ug/L			264393	232438	0
|	V-1	51	0.004	ug/L	0.008	186	2140	1929	4
|	V	51	-0.007	ug/L	0.002	33	975	783	2
|	Cr	52	0.006	ug/L	0.013	197	6591	5854	1
|	Cr	53	-0.029	ug/L	0.014	48	372	295	5
|	Mn	55	0.012	ug/L	0.003	28	350	490	10
[	Co	59	0.005	ug/L	0.000	2	42	95	0
[>	Ge	72		ug/L			385276	344474	0
|	Ni	60	0.000	ug/L	0.003	1460	45	40	21
|	Ni	62	0.020	ug/L	0.017	85	62	64	11
|	Cu	63	0.002	ug/L	0.001	88	180	171	5
|	Cu	65	-0.000	ug/L	0.005	2337	100	89	15
|	Zn	66	-0.078	ug/L	0.007	8	348	156	8
|	Zn	67	-0.029	ug/L	0.037	129	70	53	23
|	Zn	68	-0.304	ug/L	0.095	31	9052	7665	1
|	As-1	75	0.002	ug/L	0.017	909	-30	-24	125
|	As	75	-0.013	ug/L	0.036	266	10544	9403	0
|	Se	82	0.030	ug/L	0.054	179	0	6	161
|	Se	78	-0.065	ug/L	0.130	199	10737	9569	0
[	Mo	98	-0.258	ug/L	0.001	0	1921	115	7
	Y	89		ug/L			294548	275290	0
	Kr	83		ug/L			77	62	1
[>	In	115		ug/L			417878	387917	0
|	Ag	107	0.009	ug/L	0.002	22	26	130	18
|	Cd	111	0.012	ug/L	0.008	63	162	187	12
|	Cd	114	0.003	ug/L	0.001	41	14	34	25
|	Sb	121	0.019	ug/L	0.003	14	32	240	12
|	Sb	123	0.021	ug/L	0.007	34	25	198	30
|	Ba	135	0.004	ug/L	0.002	56	16	25	22
[	Ba	137	0.003	ug/L	0.002	56	21	32	22
[>	Tb	159		ug/L			395846	382700	1
|	Tl	205	0.004	ug/L	0.001	13	25	133	9
|	Pb	208	0.004	ug/L	0.001	15	201	347	7
|	Bi	209		ug/L			342389	329525	0
|	Th	232	0.035	ug/L	0.002	5	203	2105	3
[	U	238	0.004	ug/L	0.000	7	20	278	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 17:57:34
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	**Li**	**6**			ug/L			356289	372582	0
	Be	**9**	**0.005**		ug/L	0.007	162	3	5	58
	C	**13**			mg/L			4456	5791	1
	Cl	**37**			mg/L			2690010	2577628	0
>	**Sc**	**45**			ug/L			264393	232279	0
	V-1	**51**	**0.032**		ug/L	0.009	27	2140	2221	4
	V	**51**	**-0.001**		ug/L	0.001	60	975	842	1
	Cr	**52**	**0.094**		ug/L	0.017	17	6591	6679	2
	Cr	**53**	**-0.012**		ug/L	0.019	163	372	313	6
	Mn	**55**	**0.036**		ug/L	0.001	1	350	870	0
	Co	**59**	**0.005**		ug/L	0.000	8	42	97	5
>	**Ge**	**72**			ug/L			385276	339806	0
	Ni	**60**	**0.045**		ug/L	0.004	8	45	158	6
	Ni	**62**	**0.036**		ug/L	0.020	57	62	69	11
	Cu	**63**	**0.088**		ug/L	0.004	4	180	701	3
	Cu	**65**	**0.076**		ug/L	0.011	15	100	317	10
	Zn	**66**	**0.219**		ug/L	0.016	7	348	737	3
	Zn	**67**	**0.238**		ug/L	0.009	3	70	140	2
	Zn	**68**	**0.158**		ug/L	0.049	31	9052	8204	1
	As-1	**75**		U **0.008**	ug/L	0.012	154	-30	-13	161
	As	**75**	**0.084**		ug/L	0.064	75	10544	9452	0
	Se	**82**	**0.023**		ug/L	0.040	177	0	4	153
	Se	**78**	**0.336**		ug/L	0.252	74	10737	9624	0
	Mo	**98**	**-0.261**		ug/L	0.000	0	1921	90	2
	Y	**89**			ug/L			294548	271709	0
	Kr	**83**			ug/L			77	71	9
>	**In**	**115**			ug/L			417878	379472	0
	Ag	**107**	**0.002**		ug/L	0.001	36	26	51	19
	Cd	**111**	**0.011**		ug/L	0.006	52	162	180	9
	Cd	**114**	**0.001**		ug/L	0.001	168	14	17	35
	Sb	**121**	**0.003**		ug/L	0.001	45	32	62	24
	Sb	**123**	**0.003**		ug/L	0.000	2	25	45	1
	Ba	**135**	**0.031**		ug/L	0.004	12	16	92	10
	Ba	**137**	**0.028**		ug/L	0.004	12	21	137	10
>	**Tb**	**159**			ug/L			395846	376866	0
	Tl	**205**	**0.001**		ug/L	0.000	17	25	54	9
	Pb	**208**		U **0.015**	ug/L	0.001	7	201	792	5
	Bi	**209**			ug/L			342389	328347	0
	Th	**232**	**0.009**		ug/L	0.001	6	203	690	5
	U	**238**	**0.001**		ug/L	0.000	14	20	54	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 18:04:05
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	362549	0
[	Be	9	24.952	ug/L	0.204	0	3	10337	0
	C	13		mg/L			4456	6524	1
	Cl	37		mg/L			2690010	2563316	0
[>	Sc	45		ug/L			264393	229902	0
|	V-1	51	26.538	ug/L	0.242	0	2140	285746	0
|	V	51	26.514	ug/L	0.211	0	975	290432	0
|	Cr	52	26.677	ug/L	0.147	0	6591	253998	0
|	Cr	53	26.595	ug/L	0.089	0	372	30200	0
|	Mn	55	27.540	ug/L	0.218	0	350	431836	1
[	Co	59	27.645	ug/L	0.313	1	42	338853	1
[>	Ge	72		ug/L			385276	338699	0
|	Ni	60	27.754	ug/L	0.275	0	45	73134	0
|	Ni	62	27.481	ug/L	0.357	1	62	11175	2
|	Cu	63	28.566	ug/L	0.142	0	180	175824	0
|	Cu	65	28.140	ug/L	0.105	0	100	84205	0
|	Zn	66	81.188	ug/L	0.733	0	348	159251	0
|	Zn	67	74.832	ug/L	0.416	0	70	24760	0
|	Zn	68	80.040	ug/L	0.661	0	9052	118905	0
|	As-1	75	25.591	ug/L	0.229	0	-30	45733	0
|	As	75	25.501	ug/L	0.331	1	10544	55209	0
|	Se	82	80.198	ug/L	0.724	0	0	14091	0
|	Se	78	78.245	ug/L	1.020	1	10737	45415	0
[	Mo	98	-0.260	ug/L	0.004	1	1921	97	23
	Y	89		ug/L			294548	268826	0
	Kr	83		ug/L			77	72	12
[>	In	115		ug/L			417878	380884	0
|	Ag	107	26.699	ug/L	0.307	1	26	323873	1
|	Cd	111	25.699	ug/L	0.148	0	162	78070	0
|	Cd	114	25.570	ug/L	0.241	0	14	184707	1
|	Sb	121	0.004	ug/L	0.001	20	32	73	12
|	Sb	123	0.006	ug/L	0.000	6	25	72	3
|	Ba	135	25.617	ug/L	0.282	1	16	63614	1
[	Ba	137	25.974	ug/L	0.219	0	21	108314	0
[>	Tb	159		ug/L			395846	377582	0
|	Tl	205	25.090	ug/L	0.266	1	25	721016	0
|	Pb	208	25.837	ug/L	0.296	1	201	1009513	0
|	Bi	209		ug/L			342389	327671	0
|	Th	232	24.816	ug/L	0.246	0	203	1336976	0
[	U	238	25.143	ug/L	0.216	0	20	1432185	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 ADUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 18:10:37
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			356289	357575	0
[	**Be**	**9**	**0.013**	ug/L	0.017	129	3	8	79
	C	**13**		mg/L			4456	7239	0
	Cl	**37**		mg/L			2690010	2370993	1
[>	**Sc**	**45**		ug/L			264393	255376	0
|	**V-1**	**51**	**0.647**	ug/L	0.011	1	2140	9759	1
|	**V**	**51**	**0.627**	ug/L	0.012	1	975	8551	1
|	**Cr**	**52**	**0.387**	ug/L	0.006	1	6591	10371	0
|	**Cr**	**53**	**0.341**	ug/L	0.018	5	372	785	2
|	**Mn**	**55**	**13519.471**	ug/L	167.624	1	350	235308620	1
[	**Co**	**59**	**3.260**	ug/L	0.010	0	42	44426	0
[>	**Ge**	**72**		ug/L			385276	319236	1
|	**Ni**	**60**	**7.731**	ug/L	0.157	2	45	19231	3
|	**Ni**	**62**	**6.758**	ug/L	0.066	0	62	2629	1
|	**Cu**	**63**	**0.576**	ug/L	0.013	2	180	3485	3
|	**Cu**	**65**	**0.575**	ug/L	0.018	3	100	1702	2
|	**Zn**	**66**	**1.953**	ug/L	0.015	0	348	3893	1
|	**Zn**	**67**	**2.845**	ug/L	0.140	4	70	943	3
|	**Zn**	**68**	**2.871**	ug/L	0.046	1	9052	11251	0
|	**As-1**	**75**	**4.529**	ug/L	0.025	0	-30	7607	0
|	**As**	**75**	**4.481**	ug/L	0.024	0	10544	16346	1
|	**Se**	**82**	**0.541**	ug/L	0.075	13	0	90	12
|	**Se**	**78**	**0.469**	ug/L	0.087	18	10737	9100	1
[	**Mo**	**98**	**1.549**	ug/L	0.050	3	1921	10519	1
	Y	**89**		ug/L			294548	278292	0
	Kr	**83**		ug/L			77	64	6
[>	**In**	**115**		ug/L			417878	359649	0
|	**Ag**	**107**	**0.018**	ug/L	0.002	10	26	233	9
|	**Cd**	**111**	**0.097**	ug/L	0.013	13	162	417	8
|	**Cd**	**114**	**0.060**	ug/L	0.002	3	14	422	3
|	**Sb**	**121**	**0.065**	ug/L	0.002	3	32	698	3
|	**Sb**	**123**	**0.068**	ug/L	0.003	4	25	548	4
|	**Ba**	**135**	**42.823**	ug/L	0.329	0	16	100402	1
[	**Ba**	**137**	**43.496**	ug/L	0.219	0	21	171257	0
[>	**Tb**	**159**		ug/L			395846	367765	0
|	**Tl**	**205**	**0.016**	ug/L	0.001	3	25	463	2
|	**Pb**	**208**	**0.027**	ug/L	0.001	4	201	1200	3
|	**Bi**	**209**		ug/L			342389	307311	0
|	**Th**	**232**	**0.065**	ug/L	0.012	17	203	3573	16
[	**U**	**238**	**0.187**	ug/L	0.005	2	20	10384	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 18:17:09
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	353740	1
[	Be	9	0.003	ug/L	0.002	53	3	4	15
	C	13		mg/L			4456	6614	1
	Cl	37		mg/L			2690010	2316794	0
[>	Sc	45		ug/L			264393	253437	0
[	V-1	51	0.613	ug/L	0.016	2	2140	9285	1
[	V	51	0.617	ug/L	0.016	2	975	8361	1
[	Cr	52	0.353	ug/L	0.013	3	6591	9941	0
[	Cr	53	0.380	ug/L	0.019	4	372	828	2
[	Mn	55	13652.895	ug/L	105.796	0	350	235816107	0
[	Co	59	3.242	ug/L	0.033	1	42	43839	0
[>	Ge	72		ug/L			385276	313865	1
[	Ni	60	7.713	ug/L	0.116	1	45	18858	0
[	Ni	62	6.867	ug/L	0.076	1	62	2626	2
[	Cu	63	0.525	ug/L	0.006	1	180	3138	1
[	Cu	65	0.535	ug/L	0.010	1	100	1564	1
[	Zn	66	1.899	ug/L	0.042	2	348	3729	2
[	Zn	67	2.809	ug/L	0.071	2	70	916	2
[	Zn	68	2.903	ug/L	0.092	3	9052	11103	1
[	As-1	75	4.548	ug/L	0.024	0	-30	7511	1
[	As	75	4.484	ug/L	0.069	1	10544	16076	0
[	Se	82	0.486	ug/L	0.068	14	0	79	13
[	Se	78	0.398	ug/L	0.247	62	10737	8915	0
[	Mo	98	1.585	ug/L	0.040	2	1921	10547	2
	Y	89		ug/L			294548	274515	0
	Kr	83		ug/L			77	70	11
[>	In	115		ug/L			417878	359060	0
[	Ag	107	0.003	ug/L	0.001	34	26	60	21
[	Cd	111	0.076	ug/L	0.007	9	162	358	5
[	Cd	114	0.049	ug/L	0.003	6	14	346	6
[	Sb	121	0.067	ug/L	0.002	3	32	710	3
[	Sb	123	0.067	ug/L	0.001	1	25	538	1
[	Ba	135	43.028	ug/L	0.246	0	16	100718	0
[	Ba	137	43.217	ug/L	0.306	0	21	169880	0
[>	Tb	159		ug/L			395846	368613	0
[	Tl	205	0.009	ug/L	0.000	1	25	277	1
[	Pb	208	0.014	ug/L	0.001	5	201	733	3
[	Bi	209		ug/L			342389	307008	0
[	Th	232	0.020	ug/L	0.000	1	203	1251	1
[	U	238	0.173	ug/L	0.001	0	20	9655	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 ASPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 18:23:41
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	356060	0
[	Be	9	23.279	ug/L	0.318	1	3	9472	1
	C	13		mg/L			4456	7138	2
	Cl	37		mg/L			2690010	2259930	0
[>	Sc	45		ug/L			264393	245545	0
[	V-1	51	23.221	ug/L	0.306	1	2140	267285	0
[	V	51	23.194	ug/L	0.298	1	975	271453	0
[	Cr	52	22.902	ug/L	0.264	1	6591	233751	0
[	Cr	53	22.838	ug/L	0.301	1	372	27746	1
[	Mn	55	13507.215	ug/L	295.148	2	350	226024886	1
[	Co	59	25.941	ug/L	0.357	1	42	339592	1
[>	Ge	72		ug/L			385276	307151	0
[	Ni	60	34.075	ug/L	0.422	1	45	81427	1
[	Ni	62	32.534	ug/L	0.468	1	62	11987	1
[	Cu	63	26.796	ug/L	0.171	0	180	149580	0
[	Cu	65	26.402	ug/L	0.295	1	100	71657	1
[	Zn	66	78.180	ug/L	0.151	0	348	139083	0
[	Zn	67	73.834	ug/L	1.044	1	70	22157	1
[	Zn	68	78.189	ug/L	0.414	0	9052	105507	1
[	As-1	75	30.034	ug/L	0.144	0	-30	48681	0
[	As	75	29.630	ug/L	0.210	0	10544	56818	1
[	Se	82	80.566	ug/L	0.717	0	0	12838	0
[	Se	78	77.542	ug/L	0.889	1	10737	40895	1
[	Mo	98	1.562	ug/L	0.012	0	1921	10193	0
	Y	89		ug/L			294548	270212	0
	Kr	83		ug/L			77	71	2
[>	In	115		ug/L			417878	352162	0
[	Ag	107	24.661	ug/L	0.161	0	26	276579	0
[	Cd	111	24.949	ug/L	0.271	1	162	70074	0
[	Cd	114	24.926	ug/L	0.159	0	14	166480	1
[	Sb	121	0.064	ug/L	0.004	6	32	675	6
[	Sb	123	0.068	ug/L	0.003	4	25	534	4
[	Ba	135	66.880	ug/L	0.750	1	16	153524	0
[	Ba	137	68.042	ug/L	0.598	0	21	262314	1
[>	Tb	159		ug/L			395846	364247	0
[	Tl	205	23.888	ug/L	0.120	0	25	662237	0
[	Pb	208	24.386	ug/L	0.109	0	201	919222	0
[	Bi	209		ug/L			342389	302999	0
[	Th	232	24.607	ug/L	0.043	0	203	1278982	0
[	U	238	24.965	ug/L	0.088	0	20	1371926	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 18:30:14
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	368203	1
	Be	9	0.009	ug/L	0.008	97	3	7	50
	C	13		mg/L			4456	5918	1
	Cl	37		mg/L			2690010	2182495	1
>	Sc	45		ug/L			264393	237328	0
	V-1	51	1.429	ug/L	0.041	2	2140	17707	2
	V	51	1.424	ug/L	0.029	2	975	16937	2
	Cr	52	0.519	ug/L	0.006	1	6591	10906	0
	Cr	53	0.562	ug/L	0.037	6	372	986	3
	Mn	55	40.711	ug/L	0.350	0	350	658825	1
	Co	59	0.731	ug/L	0.014	1	42	9288	1
>	Ge	72		ug/L			385276	303756	0
	Ni	60	13.833	ug/L	0.114	0	45	32712	1
	Ni	62	13.514	ug/L	0.107	0	62	4953	0
	Cu	63	0.398	ug/L	0.000	0	180	2339	0
	Cu	65	0.399	ug/L	0.031	7	100	1149	7
	Zn	66	1.036	ug/L	0.021	1	348	2093	1
	Zn	67	1.205	ug/L	0.011	0	70	412	0
	Zn	68	1.052	ug/L	0.105	10	9052	8444	1
	As-1	75	0.395	ug/L	0.007	1	-30	609	2
	As	75	0.250	ug/L	0.071	28	10544	8717	1
	Se	82	0.398	ug/L	0.105	26	0	63	26
	Se	78	-0.149	ug/L	0.281	188	10737	8403	1
	Mo	98	-0.024	ug/L	0.007	28	1921	1383	2
	Y	89		ug/L			294548	253528	0
	Kr	83		ug/L			77	64	6
>	In	115		ug/L			417878	353077	1
	Ag	107	0.010	ug/L	0.001	10	26	140	10
	Cd	111	0.031	ug/L	0.006	18	162	223	6
	Cd	114	0.024	ug/L	0.003	10	14	176	11
	Sb	121	0.084	ug/L	0.002	2	32	876	3
	Sb	123	0.087	ug/L	0.001	1	25	680	2
	Ba	135	7.670	ug/L	0.053	0	16	17665	0
	Ba	137	7.783	ug/L	0.118	1	21	30095	0
>	Tb	159		ug/L			395846	373591	0
	Tl	205	0.010	ug/L	0.000	3	25	300	2
	Pb	208	0.017	ug/L	0.001	6	201	854	4
	Bi	209		ug/L			342389	307076	0
	Th	232	0.035	ug/L	0.008	23	203	2045	21
	U	238	0.014	ug/L	0.000	2	20	804	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 18:36:47
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	368019	1
[	Be	9	-0.000	ug/L	0.007	2517	3	3	94
	C	13		mg/L			4456	6176	1
	Cl	37		mg/L			2690010	2180932	0
[>	Sc	45		ug/L			264393	242978	0
|	V-1	51	1.457	ug/L	0.039	2	2140	18439	1
|	V	51	1.552	ug/L	0.022	1	975	18814	0
|	Cr	52	2.645	ug/L	0.058	2	6591	32068	1
|	Cr	53	2.865	ug/L	0.126	4	372	3743	4
|	Mn	55	3.640	ug/L	0.058	1	350	60595	2
[	Co	59	0.055	ug/L	0.000	0	42	745	0
[>	Ge	72		ug/L			385276	296456	0
|	Ni	60	3.616	ug/L	0.050	1	45	8370	1
|	Ni	62	3.261	ug/L	0.125	3	62	1203	3
|	Cu	63	0.407	ug/L	0.010	2	180	2327	2
|	Cu	65	0.306	ug/L	0.011	3	100	878	3
|	Zn	66	0.691	ug/L	0.021	2	348	1452	2
|	Zn	67	1.075	ug/L	0.091	8	70	364	7
|	Zn	68	0.847	ug/L	0.182	21	9052	7993	2
|	As-1	75	0.412	ug/L	0.005	1	-30	620	1
|	As	75	0.336	ug/L	0.011	3	10544	8642	0
|	Se	82	0.149	ug/L	0.050	33	0	23	32
|	Se	78	-0.149	ug/L	0.099	66	10737	8202	0
[	Mo	98	-0.246	ug/L	0.003	1	1921	159	10
	Y	89		ug/L			294548	249978	0
	Kr	83		ug/L			77	58	7
[>	In	115		ug/L			417878	344724	0
|	Ag	107	0.004	ug/L	0.000	4	26	60	2
|	Cd	111	0.009	ug/L	0.006	61	162	159	9
|	Cd	114	0.008	ug/L	0.001	10	14	63	8
|	Sb	121	0.021	ug/L	0.002	7	32	230	7
|	Sb	123	0.020	ug/L	0.003	12	25	170	10
|	Ba	135	8.400	ug/L	0.039	0	16	18888	0
[	Ba	137	8.529	ug/L	0.062	0	21	32204	1
[>	Tb	159		ug/L			395846	367678	0
|	Tl	205	0.003	ug/L	0.001	23	25	111	18
|	Pb	208	0.010	ug/L	0.001	7	201	562	5
|	Bi	209		ug/L			342389	299291	0
|	Th	232	0.009	ug/L	0.000	4	203	641	3
[	U	238	0.011	ug/L	0.000	3	20	634	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU45 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 18:43:21
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			356289	374865	0
[	Be	9	0.077		ug/L	0.021	27	3	36	23
	C	13			mg/L			4456	7187	1
	Cl	37			mg/L			2690010	2153470	0
[>	Sc	45			ug/L			264393	231881	1
	V-1	51	11.135		ug/L	0.116	1	2140	122006	0
	V	51	11.076		ug/L	0.073	0	975	122864	0
	Cr	52	7.913		ug/L	0.073	0	6591	80050	0
	Cr	53	7.936		ug/L	0.059	0	372	9319	2
	Mn	55	117.305		ug/L	1.171	0	350	1853987	0
[	Co	59	2.496		ug/L	0.018	0	42	30897	2
[>	Ge	72			ug/L			385276	306978	0
	Ni	60	7.970		ug/L	0.178	2	45	19063	2
	Ni	62	9.139		ug/L	0.134	1	62	3401	1
	Cu	63	35.649		ug/L	0.133	0	180	198839	0
	Cu	65	35.282		ug/L	0.267	0	100	95671	0
	Zn	66	248.215		ug/L	0.701	0	348	440734	0
	Zn	67	221.254		ug/L	3.153	1	70	66244	1
	Zn	68	244.148		ug/L	1.014	0	9052	313947	0
	As-1	75	2.920		ug/L	0.030	1	-30	4708	1
	As	75	2.725		ug/L	0.024	0	10544	12851	0
	Se	82	0.063	U	ug/L	0.039	61	0	10	58
	Se	78	-0.550		ug/L	0.045	8	10737	8325	0
[	Mo	98	1.159		ug/L	0.024	2	1921	7955	1
	Y	89			ug/L			294548	286363	0
	Kr	83			ug/L			77	72	3
[>	In	115		U	ug/L			417878	351048	0
	Ag	107	0.032		ug/L	0.001	1	26	385	1
	Cd	111	0.198		ug/L	0.005	2	162	689	2
	Cd	114	0.132		ug/L	0.007	5	14	890	4
	Sb	121	0.521		ug/L	0.005	1	32	5246	0
	Sb	123	0.528		ug/L	0.016	2	25	4008	2
	Ba	135	45.105		ug/L	0.274	0	16	103220	0
[	Ba	137	45.700		ug/L	0.276	0	21	175630	0
[>	Tb	159			ug/L			395846	373079	0
	Tl	205	0.026		ug/L	0.001	5	25	774	5
	Pb	208	12.108		ug/L	0.017	0	201	467577	0
	Bi	209			ug/L			342389	310661	0
	Th	232	0.310		ug/L	0.006	1	203	16667	1
[	U	238	0.153		ug/L	0.003	1	20	8632	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU45 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 18:49:56
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	376489	0
[	Be	9	0.012	ug/L	0.003	24	3	8	14
	C	13		mg/L			4456	7002	0
	Cl	37		mg/L			2690010	2168422	0
[>	Sc	45		ug/L			264393	217242	1
[	V-1	51	3.905	ug/L	0.052	1	2140	41229	1
[	V	51	3.859	ug/L	0.053	1	975	40621	1
[	Cr	52	1.987	ug/L	0.031	1	6591	22892	2
[	Cr	53	1.966	ug/L	0.032	1	372	2392	1
[	Mn	55	206.862	ug/L	1.481	0	350	3062936	1
[	Co	59	0.718	ug/L	0.006	0	42	8344	1
[>	Ge	72		ug/L			385276	310466	0
[	Ni	60	2.015	ug/L	0.032	1	45	4901	1
[	Ni	62	2.081	ug/L	0.065	3	62	822	2
[	Cu	63	7.093	ug/L	0.060	0	180	40126	0
[	Cu	65	7.012	ug/L	0.048	0	100	19295	0
[	Zn	66	63.387	ug/L	0.118	0	348	114037	0
[	Zn	67	56.663	ug/L	0.487	0	70	17200	0
[	Zn	68	62.088	ug/L	0.199	0	9052	86186	0
[	As-1	75	0.898	ug/L	0.010	1	-30	1446	0
[	As	75	0.714	ug/L	0.026	3	10544	9675	0
[	Se	82	0.073	ug/L	0.044	60	0	12	57
[	Se	78	-0.576	ug/L	0.078	13	10737	8409	0
[	Mo	98	0.187	ug/L	0.001	0	1921	2596	0
	Y	89		ug/L			294548	266793	0
	Kr	83		ug/L			77	70	5
[>	In	115		ug/L			417878	356570	0
[	Ag	107	0.017	ug/L	0.001	4	26	213	4
[	Cd	111	0.337	ug/L	0.015	4	162	1094	3
[	Cd	114	0.299	ug/L	0.010	3	14	2034	3
[	Sb	121	10.407	ug/L	0.016	0	32	106017	0
[	Sb	123	10.396	ug/L	0.044	0	25	79842	0
[	Ba	135	13.782	ug/L	0.258	1	16	32045	1
[	Ba	137	13.934	ug/L	0.258	1	21	54404	1
[>	Tb	159		ug/L			395846	377261	0
[	Tl	205	0.008	ug/L	0.001	7	25	247	6
[	Pb	208	6.180	ug/L	0.031	0	201	241436	0
[	Bi	209		ug/L			342389	317141	0
[	Th	232	0.036	ug/L	0.001	2	203	2106	1
[	U	238	0.038	ug/L	0.001	2	20	2189	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 09, 2011 18:56:31
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			356289	374061	0
	Be	9	-0.002	ug/L	0.005	216	3	2	86
	C	13		mg/L			4456	6000	2
	Cl	37		mg/L			2690010	2175267	0
>	Sc	45		ug/L			264393	217315	0
	V-1	51	0.622	ug/L	0.002	0	2140	8047	0
	V	51	0.635	ug/L	0.006	0	975	7355	0
	Cr	52	V 0.381	ug/L	0.013	3	6591	8771	0
	Cr	53	0.437	ug/L	0.013	2	372	770	1
	Mn	55	110.977	ug/L	1.652	1	350	1643833	0
	Co	59	0.138	ug/L	0.005	3	42	1633	3
>	Ge	72		ug/L			385276	306193	0
	Ni	60	1.045	ug/L	0.020	1	45	2524	2
	Ni	62	0.893	ug/L	0.021	2	62	376	2
	Cu	63	3.041	ug/L	0.041	1	180	17047	0
	Cu	65	2.900	ug/L	0.090	3	100	7915	2
	Zn	66	21.996	ug/L	0.255	1	348	39206	0
	Zn	67	19.567	ug/L	0.062	0	70	5894	0
	Zn	68	21.617	ug/L	0.066	0	9052	34283	0
	As-1	75	0.397	ug/L	0.019	4	-30	617	4
	As	75	0.249	ug/L	0.043	17	10544	8785	0
	Se	82	V 0.102	ug/L	0.054	53	0	16	51
	Se	78	-0.440	ug/L	0.108	24	10737	8350	0
	Mo	98	0.191	ug/L	0.007	3	1921	2583	1
	Y	89		ug/L			294548	259754	1
	Kr	83		ug/L			77	66	8
>	In	115		ug/L			417878	351989	0
	Ag	107	V 0.004	ug/L	0.001	16	26	65	10
	Cd	111	V 0.095	ug/L	0.015	16	162	402	11
	Cd	114	0.083	ug/L	0.006	7	14	568	6
	Sb	121	0.885	ug/L	0.016	1	32	8920	1
	Sb	123	0.870	ug/L	0.013	1	25	6614	2
	Ba	135	3.242	ug/L	0.016	0	16	7451	0
	Ba	137	3.294	ug/L	0.036	1	21	12712	1
>	Tb	159		ug/L			395846	376188	0
	Tl	205	0.006	ug/L	0.000	3	25	184	3
	Pb	208	0.190	ug/L	0.001	0	201	7572	1
	Bi	209		ug/L			342389	311938	0
	Th	232	0.006	ug/L	0.001	8	203	529	5
	U	238	0.010	ug/L	0.000	4	20	568	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 19:03:05
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	365595	0
[	Be	9	47.589	ug/L	0.414	0	3	19879	0
	C	13		mg/L			4456	3227	1
	Cl	37		mg/L			2690010	2201638	0
[>	Sc	45		ug/L			264393	203238	0
[	V-1	51	51.635	ug/L	0.170	0	2140	489951	0
[	V	51	51.526	ug/L	0.205	0	975	498254	0
[	Cr	52	52.548	ug/L	0.107	0	6591	437396	0
[	Cr	53	52.153	ug/L	0.359	0	372	52080	0
[	Mn	55	52.804	ug/L	0.381	0	350	731679	0
[	Co	59	53.036	ug/L	0.630	1	42	574655	1
[>	Ge	72		ug/L			385276	304629	0
[	Ni	60	52.042	ug/L	0.326	0	45	123315	0
[	Ni	62	52.141	ug/L	0.883	1	62	19024	1
[	Cu	63	51.727	ug/L	0.371	0	180	286245	0
[	Cu	65	51.348	ug/L	0.492	0	100	138133	0
[	Zn	66	51.134	ug/L	0.482	0	348	90315	0
[	Zn	67	51.388	ug/L	0.275	0	70	15310	0
[	Zn	68	50.055	ug/L	0.217	0	9052	69564	0
[	As-1	75	50.567	ug/L	0.486	0	-30	81305	0
[	As	75	49.901	ug/L	0.434	0	10544	89195	0
[	Se	82	52.629	ug/L	0.355	0	0	8317	0
[	Se	78	49.996	ug/L	0.168	0	10737	29166	0
[	Mo	98	53.917	ug/L	0.246	0	1921	298133	0
	Y	89		ug/L			294548	248208	0
	Kr	83		ug/L			77	70	2
[>	In	115		ug/L			417878	343989	0
[	Ag	107	50.603	ug/L	0.481	0	26	554329	0
[	Cd	111	50.924	ug/L	0.523	1	162	139575	0
[	Cd	114	50.704	ug/L	0.261	0	14	330772	0
[	Sb	121	49.955	ug/L	0.361	0	32	490852	0
[	Sb	123	50.495	ug/L	0.140	0	25	374033	0
[	Ba	135	49.654	ug/L	0.232	0	16	111348	0
[	Ba	137	50.552	ug/L	0.253	0	21	190370	0
[>	Tb	159		ug/L			395846	364731	1
[	Tl	205	46.600	ug/L	0.540	1	25	1293487	0
[	Pb	208	47.913	ug/L	0.481	1	201	1808200	0
[	Bi	209		ug/L			342389	306034	0
[	Th	232	50.121	ug/L	0.699	1	203	2608050	0
[	U	238	50.930	ug/L	0.091	0	20	2802430	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 09, 2011 19:10:18
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\050911.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			356289	379512	0
[	Be	9	0.004	ug/L	0.006	140	3	5	48
	C	13		mg/L			4456	3563	2
	Cl	37		mg/L			2690010	2267912	0
[>	Sc	45		ug/L			264393	209952	0
|	V-1	51	0.008	ug/L	0.004	47	2140	1775	1
|	V	51	-0.011	ug/L	0.003	28	975	668	4
|	Cr	52	0.008	ug/L	0.011	134	6591	5304	1
|	Cr	53	-0.049	ug/L	0.009	18	372	245	3
|	Mn	55	0.136	ug/L	0.006	4	350	2221	3
[	Co	59	0.006	ug/L	0.002	25	42	103	16
[>	Ge	72		ug/L			385276	313692	0
|	Ni	60	0.001	ug/L	0.005	532	45	38	29
|	Ni	62	0.005	ug/L	0.012	219	62	52	8
|	Cu	63	-0.001	ug/L	0.003	280	180	141	10
|	Cu	65	0.000	ug/L	0.003	2690	100	82	10
|	Zn	66	-0.079	ug/L	0.002	2	348	140	2
|	Zn	67	-0.043	ug/L	0.039	89	70	44	26
|	Zn	68	-0.546	ug/L	0.061	11	9052	6669	1
|	As-1	75	0.021	ug/L	0.010	50	-30	9	190
|	As	75	-0.174	ug/L	0.009	5	10544	8295	0
|	Se	82	0.034	ug/L	0.025	74	0	6	68
|	Se	78	-0.720	ug/L	0.024	3	10737	8435	0
[	Mo	98	-0.254	ug/L	0.002	0	1921	125	9
	Y	89		ug/L			294548	258589	1
	Kr	83		ug/L			77	63	0
[>	In	115		ug/L			417878	356831	0
|	Ag	107	0.010	ug/L	0.000	3	26	132	2
|	Cd	111	0.016	ug/L	0.007	40	162	184	10
|	Cd	114	0.004	ug/L	0.001	14	14	37	10
|	Sb	121	0.020	ug/L	0.004	21	32	232	19
|	Sb	123	0.020	ug/L	0.003	13	25	176	12
|	Ba	135	0.001	ug/L	0.002	236	16	16	34
[	Ba	137	0.004	ug/L	0.003	59	21	35	29
[>	Tb	159		ug/L			395846	374453	0
|	Tl	205	0.004	ug/L	0.000	5	25	143	4
|	Pb	208	0.005	ug/L	0.001	18	201	381	8
|	Bi	209		ug/L			342389	319684	0
|	Th	232	0.039	ug/L	0.001	3	203	2272	3
[	U	238	0.006	ug/L	0.000	7	20	346	7

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.10.11 **Analyst:** BLD **Page:** 1 **of** 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data -	ARI Sample ID	Prep Code	Dilution	Comments
		Std 0			2828-15
		1			-4
		2			-5
		3			2829-5
		4			2828-7
		rinse sample			
		ICV			2819-4
		ICB			
		CCV1			
		CCB1			
		low check			Mo low
		ICSA			
		ICSAB			
		LR200			
		LR300			
		CCV2			
		CCB2			
		SU14 MB1	REN	2	
		MB2			
		MB2spk		✓	
		MB1spk		✓	
		A-L		10 ✓	
		A		2	
		Adup		1 ✓	

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.10.11 **Analyst:** BW **Page:** 2 **of** 6

All corrections made by analyst unless otherwise noted. BW 5.10.11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SU14 A	REW	2 ✓	
2		~~ZBZBZZ ADUST~~			
		B	↓	↓	
		CCV3			
		CCB3			
		SU14 F-L	REW	10 ✓	
		F		2	
		Fdup		✓	
		Fspk		✓	
2		~~ZBZBZZ ADUST~~			
		C			
		D			
		E			
		G			
		H	↓	↓	
		CCV4			TI low
		CCB4			
		SU57 Adup	REW	~~2~~ 50 ✓	As
		A			
		Aspk			STL
		Kdup		✓	
		K			
		Kspk			STL
		B	↓	↓	

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.10.11 **Analyst:** PLW **Page:** 3 of 6

All corrections made by analyst unless otherwise noted. PLW 5.10.11

Edit Label	Delete Data -	ARI Sample ID	Prep Code	Dilution	Comments
		SU57 L	REN	50	As
		SU14 X, I	↓	2	Sc high - rerun Cr
		↓ J	↓	↓	
		CCV 5			
		CCB5			
		SU57 D	REN	2	Be
		D	↓	10	As
		F		2	Be
		G		↓	↓
		G		10	As
		J		2	Be
		N		↓	↓
		N		10	As
		Q		2	Be
		↓ Q	↓	20	As
		CCV 6			
		CCB6			As 2 % Se high
		SU58 MB1	REN	2	Be
		MB2	↓	↓	↓
		MB2sp		✓	
		MB1sp		✓	
		A			
		B			
		↓ C	↓	↓	↓

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.10.11 **Analyst:** BW **Page:** 4 **of** 6

All corrections made by analyst unless otherwise noted. BW 5.11.11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SU58 D	REN	2	Be
		SU57 P	↓	↓	↓
		↓ T			
		CCV7			
		CCB7			As2 78Se ↑ high
		SU73 MB1	REN	2	
		MB1spk		↓	
		Adup		↓	
		A			
		Aspk		✓	
		↓ B			
		SU74 A			
		B			
		↓ C		↓	
		SU14 I	↓	5	Cr
		CCV8			
		CCB8			As2 78Se high end plug
		SU52 MB	REN	2	
		~~SU69 MB~~			
		↓ MB5pk		↓	
		SU52 MB5pk		↓	
		L			
		M			
		↓ N	↓	↓	

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 5.10.11

	Analyst BW 5.11	Peer	Comment
Logbooks:			
Analyst, Date, Method info	✓		
Sample ID's	✓		
Standard/QC solution ID's recorded	✓		
Prep codes	✓		
Dilution factors	✓		
Crossouts/Corrections/Deletions	✓		
Calibration:			
Blank & Standard intensities	✓		
Standard deviations	✓		
Curve fit	✓		
Calibration Verification:			
ICV/CCV	✓		see log
ICB/CCB	✓		↓
Samples:			
RSD's & SD's	✓		
Internal Standards	✓		
Carry-over	✓		
Method QC:			
CRI/CRA	✓		see log
ICSA/ICSAB	✓		
Post Spikes/Serial Dilutions	✓		
Analytic Spikes	—		
Matrix QC:			
SRM/LCS	✓		
Matrix Spikes	✓		
Matrix Duplicates	✓		
Method Blanks	✓		
Data Distribution:			
Requested elements/isotope identified	✓		
Correct samples identified for distribution	✓		
Raw data match distributed data	✓		
Data filename correct	✓		
Necessary Analysis Notes and CAFs	—		

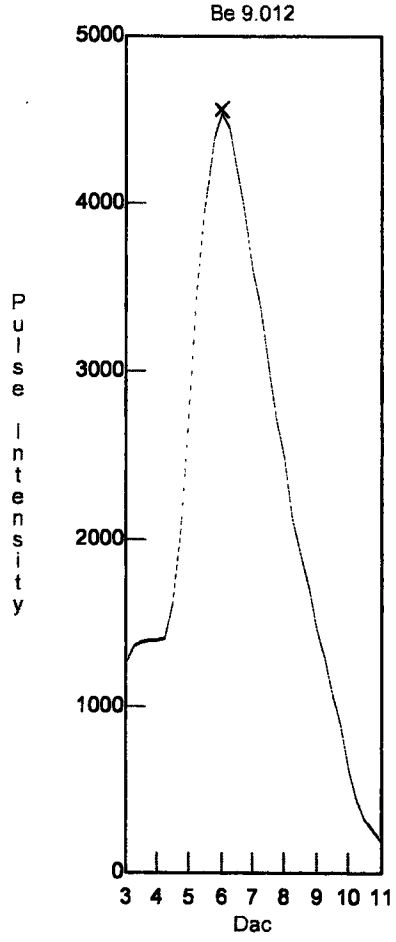
Instrument Tuning Report

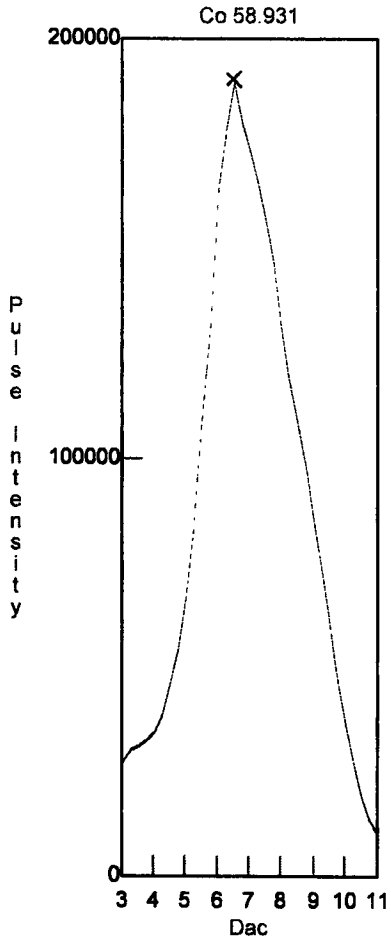
1st

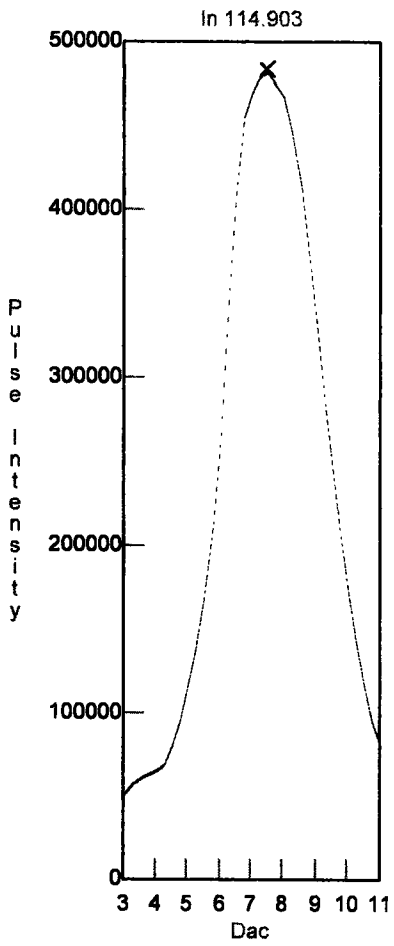
File Name: 2008.tun
File Path: c:\elandata\Tuning

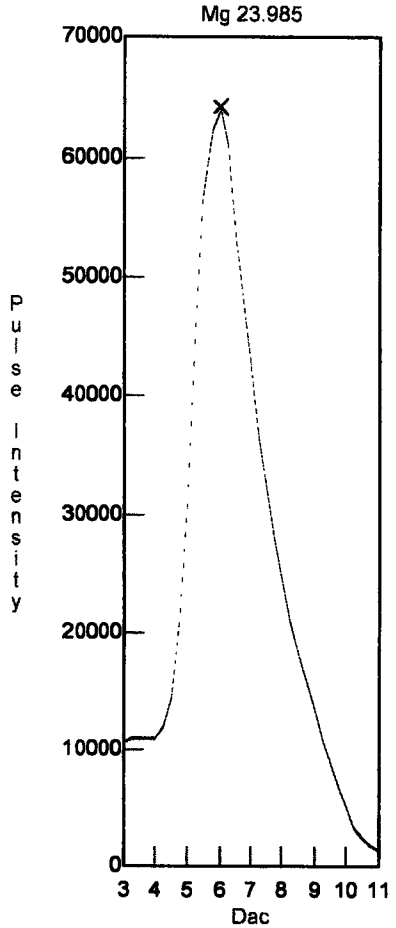
Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.028 ✓	2031	2168	0.713	
Mg	23.985	23.979 ✓	5650	2275	0.718	
Co	58.933	58.928 ✓	14150	2544	0.710	✓
In	114.904	114.928 ✓	27775	2995	0.694	
Pb	207.977	207.976 ✓	50419	3749	0.706	

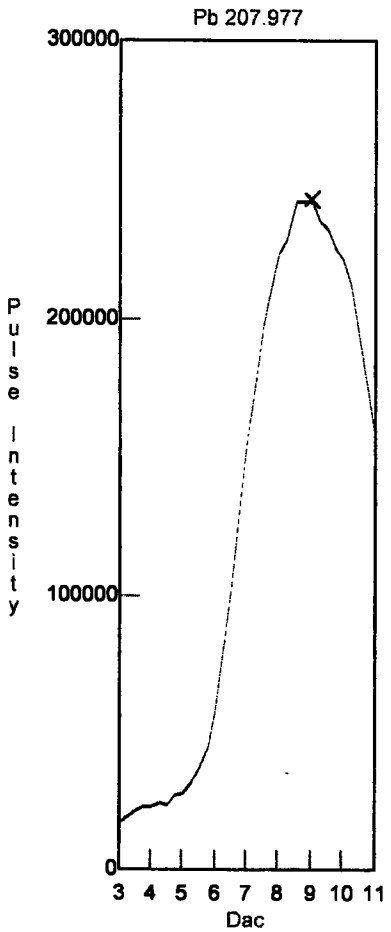
5-10-11

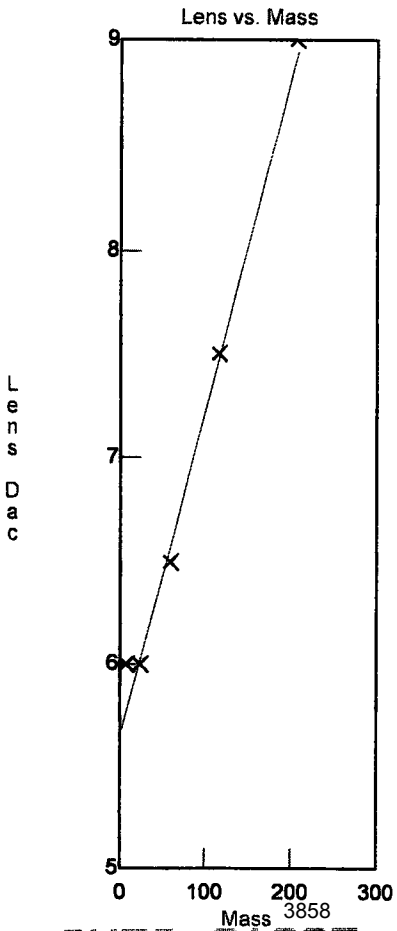












Daily Performance Report

Sample ID: Sample
Sample Date/Time: Tuesday, May 10, 2011 11:11:59
Sample Description:
Sample File: 1120.sam
Method File: c:\elandata\Method\aridailyperf.mth
Dataset File: c:\elandata\Dataset\daily performance\Sample.7532
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Number of Replicates: 5
Dual Detector Mode: Pulse

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	57884.828	424.825	0.734
	In	115	466237.621	2110.390	0.453
	Pb	208	246170.303	2952.457	1.199
⌈>	Ba	138	348648.893	1690.309	0.485
⌊	Ba++	69	0.011	0.000	1.206
⌈>	Ce	140	415281.181	3569.679	0.860
⌊	CeO	156	0.026	0.001	2.203
	Bkgd	220	18.752	2.932	15.635

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 11:31:43
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L				477376	1
[	Be	9		ug/L				2	49
	C	13		mg/L				5140	1
	Cl	37		mg/L				2489408	0
[>	Sc	45		ug/L				273386	0
[	V-1	51		ug/L				2122	6
[	V	51		ug/L				767	4
[	Cr	52		ug/L				6539	0
[	Cr	53		ug/L				305	10
[	Mn	55		ug/L				899	4
[	Co	59		ug/L				48	8
[>	Ge	72		ug/L				392434	0
[	Ni	60		ug/L				47	5
[	Ni	62		ug/L				85	8
[	Cu	63		ug/L				279	11
[	Cu	65		ug/L				93	14
[	Zn	66		ug/L				751	11
[	Zn	67		ug/L				145	13
[	Zn	68		ug/L				8019	0
[	As-1	75		ug/L				-39	28
[	As	75		ug/L				8849	0
[	Se	82		ug/L				-12	102
[	Se	78		ug/L				9032	0
[	Mo	98		ug/L				1392	17
	Y	89		ug/L				310463	0
	Kr	83		ug/L				81	10
[>	In	115		ug/L				464469	0
[	Ag	107		ug/L				27	30
[	Cd	111		ug/L				218	2
[	Cd	114		ug/L				68	20
[	Sb	121		ug/L				25	10
[	Sb	123		ug/L				20	44
[	Ba	135		ug/L				15	54
[	Ba	137		ug/L				22	11
[>	Tb	159		ug/L				467702	1
[	Tl	205		ug/L				34	23
[	Pb	208		ug/L				244	4
[	Bi	209		ug/L				375879	1
[	Th	232		ug/L				177	4
[	U	238		ug/L				29	19

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 11:39:30
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	469704	0
[	Be	9	10.000	ug/L	0.297	2	2	4713	3
	C	13		mg/L			5140	4803	0
	Cl	37		mg/L			2489408	2500257	0
[>	Sc	45		ug/L			273386	269070	0
|	V-1	51	10.000	ug/L	0.162	1	2122	131867	0
|	V	51	10.000	ug/L	0.157	1	767	132891	0
|	Cr	52	10.000	ug/L	0.022	0	6539	120456	0
|	Cr	53	10.000	ug/L	0.021	0	305	13939	1
|	Mn	55	10.000	ug/L	0.118	1	899	196054	0
[	Co	59	10.000	ug/L	0.013	0	48	152401	0
[>	Ge	72		ug/L			392434	386254	0
|	Ni	60	10.000	ug/L	0.118	1	47	32971	0
|	Ni	62	10.000	ug/L	0.088	0	85	5074	0
|	Cu	63	10.000	ug/L	0.060	0	279	75816	0
|	Cu	65	10.000	ug/L	0.114	1	93	36644	0
|	Zn	66	10.000	ug/L	0.122	1	751	23452	1
|	Zn	67	10.000	ug/L	0.150	1	145	4190	1
|	Zn	68	10.000	ug/L	0.053	0	8019	24455	0
|	As-1	75	10.000	ug/L	0.036	0	-39	20553	0
|	As	75	10.000	ug/L	0.089	0	8849	29512	0
|	Se	82	10.000	ug/L	0.106	1	-12	2091	1
|	Se	78	10.000	ug/L	0.341	3	9032	14460	1
[	Mo	98	10.000	ug/L	0.048	0	1392	73610	0
	Y	89		ug/L			310463	300030	0
	Kr	83		ug/L			81	86	8
[>	In	115		ug/L			464469	452982	0
|	Ag	107	10.000	ug/L	0.043	0	27	143792	1
|	Cd	111	10.000	ug/L	0.113	1	218	36792	1
|	Cd	114	10.000	ug/L	0.066	0	68	86793	0
|	Sb	121	10.000	ug/L	0.074	0	25	128192	0
|	Sb	123	10.000	ug/L	0.187	1	20	97015	1
|	Ba	135	10.000	ug/L	0.092	0	15	29678	1
[	Ba	137	10.000	ug/L	0.086	0	22	50531	0
[>	Tb	159		ug/L			467702	458809	0
|	Tl	205	10.000	ug/L	0.067	0	34	314940	0
|	Pb	208	10.000	ug/L	0.053	0	244	438024	0
|	Bi	209		ug/L			375879	370148	0
|	Th	232	10.000	ug/L	0.090	0	177	588871	0
[	U	238	10.000	ug/L	0.049	0	29	633121	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 11:47:17
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	473824	1
[	Be	9	20.028	ug/L	0.191	0	2	9572	1
	C	13		mg/L			5140	4549	2
	Cl	37		mg/L			2489408	2517039	0
[>	Sc	45		ug/L			273386	271450	1
[	V-1	51	20.010	ug/L	0.079	0	2122	264636	1
[	V	51	20.024	ug/L	0.125	0	767	268983	0
[	Cr	52	20.041	ug/L	0.245	1	6539	238882	0
[	Cr	53	20.081	ug/L	0.482	2	305	28383	0
[	Mn	55	20.027	ug/L	0.348	1	899	397316	0
[	Co	59	20.059	ug/L	0.278	1	48	311967	0
[>	Ge	72		ug/L			392434	388265	0
[	Ni	60	20.012	ug/L	0.056	0	47	66437	0
[	Ni	62	20.050	ug/L	0.106	0	85	10243	0
[	Cu	63	20.038	ug/L	0.203	1	279	153586	0
[	Cu	65	19.977	ug/L	0.145	0	93	73150	0
[	Zn	66	20.147	ug/L	0.064	0	751	48132	0
[	Zn	67	20.010	ug/L	0.305	1	145	8300	1
[	Zn	68	19.978	ug/L	0.179	0	8019	41047	0
[	As-1	75	20.003	ug/L	0.041	0	-39	41393	0
[	As	75	19.992	ug/L	0.118	0	8849	50497	0
[	Se	82	20.038	ug/L	0.354	1	-12	4258	1
[	Se	78	19.988	ug/L	0.062	0	9032	20100	0
[	Mo	98	20.040	ug/L	0.156	0	1392	148064	0
	Y	89		ug/L			310463	304905	0
	Kr	83		ug/L			81	84	4
[>	In	115		ug/L			464469	454348	0
[	Ag	107	20.052	ug/L	0.077	0	27	292195	0
[	Cd	111	20.030	ug/L	0.147	0	218	74136	0
[	Cd	114	20.050	ug/L	0.306	1	68	176217	1
[	Sb	121	20.064	ug/L	0.153	0	25	261286	0
[	Sb	123	20.034	ug/L	0.088	0	20	196279	0
[	Ba	135	20.003	ug/L	0.235	1	15	59566	1
[	Ba	137	20.000	ug/L	0.112	0	22	101354	0
[>	Tb	159		ug/L			467702	457222	0
[	Tl	205	20.038	ug/L	0.120	0	34	633600	0
[	Pb	208	20.056	ug/L	0.284	1	244	885183	1
[	Bi	209		ug/L			375879	368826	0
[	Th	232	20.080	ug/L	0.205	1	177	1197332	0
[	U	238	20.070	ug/L	0.164	0	29	1284220	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 11:55:05
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	471024	0
	Be	9	49.939	ug/L	0.194	0	2	23581	0
	C	13		mg/L			5140	4819	0
	Cl	37		mg/L			2489408	2525050	0
>	Sc	45		ug/L			273386	269991	0
	V-1	51	49.977	ug/L	0.553	1	2122	652727	0
	V	51	50.007	ug/L	0.502	1	767	667454	0
	Cr	52	49.843	ug/L	0.938	1	6539	572479	1
	Cr	53	49.945	ug/L	0.725	1	305	69399	0
	Mn	55	49.882	ug/L	0.194	0	899	971613	0
	Co	59	49.792	ug/L	0.528	1	48	754566	0
>	Ge	72		ug/L			392434	388446	0
	Ni	60	49.777	ug/L	0.422	0	47	161652	0
	Ni	62	49.648	ug/L	1.205	2	85	24395	1
	Cu	63	49.772	ug/L	0.506	1	279	372787	0
	Cu	65	49.745	ug/L	0.246	0	93	177582	0
	Zn	66	49.869	ug/L	0.497	0	751	116582	0
	Zn	67	49.675	ug/L	0.703	1	145	19766	1
	Zn	68	49.870	ug/L	0.492	0	8019	89568	0
	As-1	75	49.959	ug/L	0.307	0	-39	103064	0
	As	75	49.927	ug/L	0.316	0	8849	112294	0
	Se	82	49.748	ug/L	0.113	0	-12	10334	0
	Se	78	49.628	ug/L	0.244	0	9032	35679	0
	Mo	98	49.870	ug/L	0.227	0	1392	361917	0
	Y	89		ug/L			310463	298112	1
	Kr	83		ug/L			81	92	5
>	In	115		ug/L			464469	451326	1
	Ag	107	49.767	ug/L	0.321	0	27	703866	0
	Cd	111	49.860	ug/L	0.147	0	218	180489	1
	Cd	114	49.909	ug/L	0.790	1	68	431656	0
	Sb	121	49.950	ug/L	0.746	1	25	642820	0
	Sb	123	49.979	ug/L	0.568	1	20	485336	0
	Ba	135	49.938	ug/L	0.878	1	15	146763	0
	Ba	137	49.943	ug/L	0.630	1	22	249943	0
>	Tb	159		ug/L			467702	452131	0
	Tl	205	49.913	ug/L	0.228	0	34	1547187	1
	Pb	208	49.855	ug/L	0.238	0	244	2144368	0
	Bi	209		ug/L			375879	362474	0
	Th	232	50.511	ug/L	0.643	1	177	3138443	0
	U	238	50.443	ug/L	0.540	1	29	3339521	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 12:02:54
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	473413	0
	Be	9	99.807	ug/L	0.954	0	2	47063	1
	C	13		mg/L			5140	5801	1
	Cl	37		mg/L			2489408	2533022	0
>	Sc	45		ug/L			273386	277332	0
	V-1	51	99.788	ug/L	1.123	1	2122	1327266	1
	V	51	99.801	ug/L	1.357	1	767	1358540	1
	Cr	52	99.898	ug/L	0.533	0	6539	1168077	1
	Cr	53	99.928	ug/L	0.504	0	305	141993	1
	Mn	55	99.664	ug/L	0.540	0	899	1971095	0
	Co	59	99.537	ug/L	0.222	0	48	1525878	0
>	Ge	72		ug/L			392434	392759	0
	Ni	60	99.705	ug/L	0.733	0	47	324170	1
	Ni	62	100.050	ug/L	0.692	0	85	49705	0
	Cu	63	99.427	ug/L	0.744	0	279	738611	1
	Cu	65	99.599	ug/L	1.115	1	93	354667	1
	Zn	66	99.538	ug/L	1.298	1	751	230994	1
	Zn	67	99.946	ug/L	0.656	0	145	39992	0
	Zn	68	99.444	ug/L	0.765	0	8019	169616	0
	As-1	75	99.698	ug/L	0.322	0	-39	205925	0
	As	75	99.750	ug/L	0.270	0	8849	216286	0
	Se	82	99.855	ug/L	0.899	0	-12	20884	0
	Se	78	100.057	ug/L	0.458	0	9032	63651	0
	Mo	98	100.058	ug/L	1.125	1	1392	734196	0
	Y	89		ug/L			310463	298984	0
	Kr	83		ug/L			81	112	7
>	In	115		ug/L			464469	458220	1
	Ag	107	99.669	ug/L	1.070	1	27	1415495	0
	Cd	111	99.856	ug/L	1.801	1	218	364993	1
	Cd	114	99.791	ug/L	0.679	0	68	870203	0
	Sb	121	99.609	ug/L	1.361	1	25	1284746	0
	Sb	123	99.637	ug/L	0.656	0	20	970611	0
	Ba	135	100.008	ug/L	1.294	1	15	298492	0
	Ba	137	99.913	ug/L	1.681	1	22	506169	0
>	Tb	159		ug/L			467702	455116	0
	Tl	205	101.331	ug/L	0.652	0	34	3308476	0
	Pb	208	100.671	ug/L	0.833	0	244	4458169	0
	Bi	209		ug/L			375879	362216	0
	Th	232	100.616	ug/L	1.245	1	177	6424926	1
	U	238	100.668	ug/L	1.240	1	29	6861374	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 12:10:27
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	488900	1
[	Be	9	-0.001	ug/L	0.003	269	2	2	50
	C	13		mg/L			5140	5186	1
	Cl	37		mg/L			2489408	2611796	0
[>	Sc	45		ug/L			273386	282822	1
|	V-1	51	0.010	ug/L	0.002	22	2122	2336	1
|	V	51	-0.007	ug/L	0.001	14	767	700	1
|	Cr	52	0.015	ug/L	0.005	35	6539	6943	1
|	Cr	53	-0.038	ug/L	0.009	23	305	261	5
|	Mn	55	-0.009	ug/L	0.001	17	899	758	2
[	Co	59	0.008	ug/L	0.000	5	48	174	3
[>	Ge	72		ug/L			392434	404963	0
|	Ni	60	0.004	ug/L	0.004	105	47	61	20
|	Ni	62	0.006	ug/L	0.016	258	85	91	7
|	Cu	63	-0.005	ug/L	0.002	50	279	250	6
|	Cu	65	-0.001	ug/L	0.000	37	93	93	2
|	Zn	66	-0.220	ug/L	0.012	5	751	250	12
|	Zn	67	-0.170	ug/L	0.027	15	145	79	13
|	Zn	68	-0.316	ug/L	0.032	10	8019	7746	0
|	As-1	75	0.007	ug/L	0.014	215	-39	-26	114
|	As	75	0.017	ug/L	0.003	17	8849	9169	1
|	Se	82	0.036	ug/L	0.023	63	-12	-5	96
|	Se	78	0.066	ug/L	0.055	83	9032	9358	0
[	Mo	98	-0.160	ug/L	0.002	1	1392	231	7
	Y	89		ug/L			310463	313563	1
	Kr	83		ug/L			81	81	5
[>	In	115		ug/L			464469	476585	1
|	Ag	107	0.013	ug/L	0.001	10	27	219	8
|	Cd	111	0.005	ug/L	0.004	81	218	241	4
|	Cd	114	-0.000	ug/L	0.000	227	68	69	3
|	Sb	121	0.041	ug/L	0.006	14	25	577	12
|	Sb	123	0.042	ug/L	0.004	8	20	447	7
|	Ba	135	0.004	ug/L	0.004	99	15	28	45
[	Ba	137	0.004	ug/L	0.001	24	22	42	10
[>	Tb	159		ug/L			467702	470899	0
|	Tl	205	0.005	ug/L	0.001	9	34	215	8
|	Pb	208	0.004	ug/L	0.001	18	244	427	7
|	Bi	209		ug/L			375879	385350	0
|	Th	232	0.045	ug/L	0.003	7	177	3161	6
[	U	238	0.006	ug/L	0.001	11	29	466	10

Quantitative Analysis - Calibration Report

Sample Date/Time: Tuesday, May 10, 2011 12:02:54
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

Analyte	Mass	r Corr Coeff	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	1.0000	0.0010	10	20	50	100	
C	13							
Cl	37							
Sc	45							
V-1	51	1.0000	0.0479	10	20	50	100	
V	51	1.0000	0.0491	10	20	50	100	
Cr	52	1.0000	0.0419	10	20	50	100	
Cr	53	1.0000	0.0051	10	20	50	100	
Mn	55	1.0000	0.0713	10	20	50	100	
Co	59	1.0000	0.0553	10	20	50	100	
Ge	72							
Ni	60	1.0000	0.0083	10	20	50	100	
Ni	62	1.0000	0.0013	10	20	50	100	
Cu	63	0.9999	0.0189	10	20	50	100	
Cu	65	1.0000	0.0091	10	20	50	100	
Zn	66	1.0000	0.0059	10	20	50	100	
Zn	67	1.0000	0.0010	10	20	50	100	
Zn	68	0.9999	0.0041	10	20	50	100	
As-1	75	1.0000	0.0053	10	20	50	100	
As	75	1.0000	0.0053	10	20	50	100	
Se	82	1.0000	0.0005	10	20	50	100	
Se	78	1.0000	0.0014	10	20	50	100	
Mo	98	1.0000	0.0186	10	20	50	100	
Y	89							
Kr	83							
In	115							
Ag	107	1.0000	0.0310	10	20	50	100	
Cd	111	1.0000	0.0080	10	20	50	100	
Cd	114	1.0000	0.0190	10	20	50	100	
Sb	121	1.0000	0.0281	10	20	50	100	
Sb	123	1.0000	0.0213	10	20	50	100	
Ba	135	1.0000	0.0065	10	20	50	100	
Ba	137	1.0000	0.0111	10	20	50	100	
Tb	159							
Tl	205	0.9997	0.0717	10	20	50	100	
Pb	208	0.9999	0.0973	10	20	50	100	
Bi	209							
Th	232	0.9999	0.1403	10	20	50	100	
U	238	0.9999	0.1498	10	20	50	100	

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 12:17:58
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	481857	1
	Be	9	50.137	ug/L	0.270	0	2	24065	1
	C	13		mg/L			5140	6702	1
	Cl	37		mg/L			2489408	2578039	0
>	Sc	45		ug/L			273386	280071	1
	V-1	51	50.000	ug/L	0.849	1	2122	672591	0
	V	51	49.779	ug/L	0.797	1	767	684592	0
	Cr	52	49.759	ug/L	0.998	2	6539	590799	0
	Cr	53	49.097	ug/L	0.961	1	305	70598	0
	Mn	55	50.053	ug/L	0.470	0	899	1000140	1
	Co	59	50.942	ug/L	0.468	0	48	788600	0
>	Ge	72		ug/L			392434	395285	0
	Ni	60	50.940	ug/L	0.212	0	47	166700	0
	Ni	62	50.639	ug/L	0.022	0	85	25362	0
	Cu	63	50.695	ug/L	0.115	0	279	379151	0
	Cu	65	50.924	ug/L	0.280	0	93	182542	0
	Zn	66	50.143	ug/L	0.580	1	751	117482	0
	Zn	67	50.341	ug/L	0.706	1	145	20344	0
	Zn	68	50.042	ug/L	0.536	1	8019	89914	0
	As-1	75	50.118	ug/L	0.466	0	-39	104159	0
	As	75	50.102	ug/L	0.458	0	8849	113764	0
	Se	82	79.410	ug/L	0.934	1	-12	16712	0
	Se	78	78.585	ug/L	0.944	1	9032	52263	0
	Mo	98	49.629	ug/L	1.019	2	1392	367185	1
	Y	89		ug/L			310463	302402	0
	Kr	83		ug/L			81	97	6
>	In	115		ug/L			464469	462181	1
	Ag	107	49.591	ug/L	0.514	1	27	710399	0
	Cd	111	49.843	ug/L	0.536	1	218	183874	0
	Cd	114	50.131	ug/L	0.357	0	68	440965	0
	Sb	121	49.822	ug/L	0.247	0	25	648206	0
	Sb	123	50.200	ug/L	0.741	1	20	493225	0
	Ba	135	49.943	ug/L	0.400	0	15	150365	0
	Ba	137	50.258	ug/L	0.593	1	22	256830	0
>	Tb	159		ug/L			467702	460455	1
	Tl	205	47.673	ug/L	0.566	1	34	1574712	0
	Pb	208	48.848	ug/L	0.490	1	244	2188612	0
	Bi	209		ug/L			375879	371831	0
	Th	232	50.698	ug/L	0.715	1	177	3275210	0
	U	238	49.270	ug/L	0.618	1	29	3397451	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 12:25:12
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	499237	0
[	Be	9	-0.003	ug/L	0.003	104	2	1	86
	C	13		mg/L			5140	5228	1
	Cl	37		mg/L			2489408	2596974	0
[>	Sc	45		ug/L			273386	284486	0
[	V-1	51	0.005	ug/L	0.009	174	2122	2281	4
[	V	51	-0.010	ug/L	0.002	20	767	661	5
[	Cr	52	0.006	ug/L	0.017	282	6539	6876	2
[	Cr	53	-0.041	ug/L	0.020	48	305	258	12
[	Mn	55	-0.011	ug/L	0.002	15	899	704	4
[	Co	59	0.006	ug/L	0.001	14	48	147	9
[>	Ge	72		ug/L			392434	401855	0
[	Ni	60	0.003	ug/L	0.001	23	47	60	4
[	Ni	62	0.002	ug/L	0.012	740	85	88	7
[	Cu	63	-0.007	ug/L	0.001	19	279	233	4
[	Cu	65	-0.001	ug/L	0.004	418	93	92	13
[	Zn	66	-0.223	ug/L	0.008	3	751	241	8
[	Zn	67	-0.176	ug/L	0.009	5	145	76	4
[	Zn	68	-0.376	ug/L	0.147	39	8019	7586	2
[	As-1	75	-0.015	ug/L	0.005	34	-39	-72	15
[	As	75	0.026	ug/L	0.020	79	8849	9116	0
[	Se	82	0.023	ug/L	0.028	122	-12	-7	75
[	Se	78	0.158	ug/L	0.072	45	9032	9337	0
[	Mo	98	-0.168	ug/L	0.003	1	1392	164	12
	Y	89		ug/L			310463	310318	0
	Kr	83		ug/L			81	79	1
[>	In	115		ug/L			464469	473706	1
[	Ag	107	0.008	ug/L	0.001	7	27	146	4
[	Cd	111	0.003	ug/L	0.005	180	218	233	9
[	Cd	114	-0.003	ug/L	0.000	14	68	44	8
[	Sb	121	0.016	ug/L	0.002	11	25	245	11
[	Sb	123	0.016	ug/L	0.002	11	20	185	11
[	Ba	135	0.001	ug/L	0.002	153	15	19	32
[	Ba	137	0.003	ug/L	0.001	48	22	37	19
[>	Tb	159		ug/L			467702	480216	1
[	Tl	205	0.003	ug/L	0.001	18	34	145	13
[	Pb	208	0.003	ug/L	0.000	11	244	409	4
[	Bi	209		ug/L			375879	386879	0
[	Th	232	0.025	ug/L	0.002	8	177	1851	7
[	U	238	0.004	ug/L	0.000	4	29	350	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 12:32:24
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	473838	1
[	Be	9	49.891	ug/L	0.336	0	2	23547	0
	C	13		mg/L			5140	4814	2
	Cl	37		mg/L			2489408	2566655	0
[>	Sc	45		ug/L			273386	270328	0
|	V-1	51	50.640	ug/L	0.769	1	2122	657553	0
|	V	51	50.377	ug/L	0.620	1	767	668797	0
|	Cr	52	50.889	ug/L	0.376	0	6539	583154	0
|	Cr	53	50.065	ug/L	0.480	0	305	69492	1
|	Mn	55	50.675	ug/L	0.373	0	899	977352	0
[	Co	59	50.805	ug/L	0.667	1	48	759144	0
[>	Ge	72		ug/L			392434	388396	0
|	Ni	60	50.322	ug/L	0.321	0	47	161808	0
|	Ni	62	49.875	ug/L	0.505	1	85	24545	0
|	Cu	63	50.549	ug/L	0.608	1	279	371457	0
|	Cu	65	51.043	ug/L	0.400	0	93	179777	0
|	Zn	66	50.889	ug/L	0.335	0	751	117145	0
|	Zn	67	50.212	ug/L	0.054	0	145	19940	0
|	Zn	68	50.869	ug/L	0.266	0	8019	89679	0
|	As-1	75	50.174	ug/L	0.431	0	-39	102461	0
|	As	75	50.225	ug/L	0.457	0	8849	112037	0
|	Se	82	49.811	ug/L	0.303	0	-12	10296	0
|	Se	78	49.983	ug/L	0.498	0	9032	35916	0
[	Mo	98	49.883	ug/L	0.425	0	1392	362659	0
	Y	89		ug/L			310463	297947	0
	Kr	83		ug/L			81	88	0
[>	In	115		ug/L			464469	452227	0
|	Ag	107	50.808	ug/L	0.574	1	27	712168	0
|	Cd	111	50.490	ug/L	0.792	1	218	182247	0
|	Cd	114	50.709	ug/L	0.210	0	68	436474	0
|	Sb	121	50.515	ug/L	0.492	0	25	643060	0
|	Sb	123	50.706	ug/L	0.407	0	20	487499	0
|	Ba	135	49.986	ug/L	0.392	0	15	147254	0
[	Ba	137	50.419	ug/L	0.680	1	22	252106	0
[>	Tb	159		ug/L			467702	454656	1
|	Tl	205	47.470	ug/L	0.857	1	34	1548126	0
|	Pb	208	48.873	ug/L	0.431	0	244	2162141	0
|	Bi	209		ug/L			375879	364119	0
|	Th	232	50.353	ug/L	0.679	1	177	3211903	0
[	U	238	50.265	ug/L	0.782	1	29	3422130	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 12:39:37
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			477376	496516	0
[	**Be**	**9**	**0.001**	ug/L	0.007	467	2	3	88
	C	**13**		mg/L			5140	5045	2
	Cl	**37**		mg/L			2489408	2602376	0
[>	**Sc**	**45**		ug/L			273386	277079	1
|	**V-1**	**51**	**0.011**	ug/L	0.009	78	2122	2300	3
|	**V**	**51**	**-0.010**	ug/L	0.001	9	767	638	2
|	**Cr**	**52**	**0.018**	ug/L	0.022	121	6539	6832	2
|	**Cr**	**53**	**-0.049**	ug/L	0.010	19	305	240	6
|	**Mn**	**55**	**-0.012**	ug/L	0.002	18	899	678	5
[	**Co**	**59**	**0.005**	ug/L	0.001	13	48	128	7
[>	**Ge**	**72**		ug/L			392434	398892	0
|	**Ni**	**60**	**0.003**	ug/L	0.004	122	47	58	20
|	**Ni**	**62**	**0.004**	ug/L	0.013	344	85	89	7
|	**Cu**	**63**	**-0.003**	ug/L	0.005	134	279	257	13
|	**Cu**	**65**	**-0.002**	ug/L	0.001	59	93	86	6
|	**Zn**	**66**	**-0.247**	ug/L	0.010	3	751	184	12
|	**Zn**	**67**	**-0.199**	ug/L	0.007	3	145	66	3
|	**Zn**	**68**	**-0.338**	ug/L	0.086	25	8019	7593	2
|	**As-1**	**75**	**-0.008**	ug/L	0.005	55	-39	-57	17
|	**As**	**75**	**0.043**	ug/L	0.031	73	8849	9085	0
|	**Se**	**82**	**0.023**	ug/L	0.018	78	-12	-7	49
|	**Se**	**78**	**0.182**	ug/L	0.104	57	9032	9282	0
[	**Mo**	**98**	**-0.168**	ug/L	0.001	0	1392	163	4
	Y	**89**		ug/L			310463	308733	0
	Kr	**83**		ug/L			81	75	7
[>	**In**	**115**		ug/L			464469	471761	0
|	**Ag**	**107**	**0.011**	ug/L	0.000	3	27	190	2
|	**Cd**	**111**	**0.007**	ug/L	0.002	29	218	248	2
|	**Cd**	**114**	**-0.003**	ug/L	0.001	18	68	43	11
|	**Sb**	**121**	**0.016**	ug/L	0.000	1	25	243	1
|	**Sb**	**123**	**0.016**	ug/L	0.002	10	20	181	9
|	**Ba**	**135**	**0.004**	ug/L	0.002	47	15	26	20
[	**Ba**	**137**	**0.001**	ug/L	0.000	36	22	29	8
[>	**Tb**	**159**		ug/L			467702	471453	0
|	**Tl**	**205**	**0.003**	ug/L	0.000	6	34	135	5
|	**Pb**	**208**	**0.004**	ug/L	0.001	18	244	409	8
|	**Bi**	**209**		ug/L			375879	385043	0
|	**Th**	**232**	**0.041**	ug/L	0.003	6	177	2872	6
[	**U**	**238**	**0.004**	ug/L	0.001	15	29	329	14

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 12:46:47
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	472857	0
[	Be	9	0.215	ug/L	0.043	19	2	104	20
	C	13		mg/L			5140	6489	1
	Cl	37		mg/L			2489408	2576283	0
[>	Sc	45		ug/L			273386	271091	0
|	V-1	51	0.230	ug/L	0.018	7	2122	5090	4
|	V	51	0.201	ug/L	0.006	3	767	3431	2
|	Cr	52	0.601	ug/L	0.013	2	6539	13317	1
|	Cr	53	0.484	ug/L	0.023	4	305	974	3
|	Mn	55	0.545	ug/L	0.009	1	899	11428	1
[	Co	59	0.220	ug/L	0.001	0	48	3339	1
[>	Ge	72		ug/L			392434	385174	0
|	Ni	60	0.548	ug/L	0.002	0	47	1793	0
|	Ni	62	0.523	ug/L	0.083	15	85	338	11
|	Cu	63	0.561	ug/L	0.010	1	279	4356	1
|	Cu	65	0.578	ug/L	0.001	0	93	2110	0
|	Zn	66	4.182	ug/L	0.038	0	751	10224	0
|	Zn	67	3.607	ug/L	0.158	4	145	1552	3
|	Zn	68	3.982	ug/L	0.053	1	8019	14217	0
|	As-1	75	0.183	ug/L	0.010	5	-39	332	5
|	As	75	0.382	ug/L	0.011	2	8849	9464	0
|	Se	82	0.571	ug/L	0.061	10	-12	104	11
|	Se	78	1.287	ug/L	0.078	6	9032	9554	0
[	Mo	98	0.037	ug/L	0.011	29	1392	1629	4
	Y	89		ug/L			310463	303933	0
	Kr	83		ug/L			81	74	8
[>	In	115		ug/L			464469	458340	0
|	Ag	107	0.203	ug/L	0.002	0	27	2910	0
|	Cd	111	0.129	ug/L	0.008	6	218	685	4
|	Cd	114	0.119	ug/L	0.002	1	68	1106	1
|	Sb	121	0.216	ug/L	0.002	1	25	2812	1
|	Sb	123	0.216	ug/L	0.001	0	20	2129	0
|	Ba	135	0.531	ug/L	0.015	2	15	1598	2
[	Ba	137	0.534	ug/L	0.008	1	22	2730	1
[>	Tb	159		ug/L			467702	464783	0
|	Tl	205	0.203	ug/L	0.002	0	34	6799	1
|	Pb	208	0.111	ug/L	0.004	3	244	5257	3
|	Bi	209		ug/L			375879	370759	0
|	Th	232	0.207	ug/L	0.003	1	177	13690	1
[	U	238	0.195	ug/L	0.005	2	29	13581	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 12:53:58
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	460121	1
[	Be	9	0.002	ug/L	0.000	4	2	3	
	C	13		mg/L			5140	20685	2
	Cl	37		mg/L			2489408	3814422	2
[>	Sc	45		ug/L			273386	254588	1
|	V-1	51	0.003	ug/L	0.017	532	2122	2014	9
|	V	51	0.682	ug/L	0.014	2	767	9233	2
|	Cr	52	0.615	ug/L	0.018	2	6539	12654	0
|	Cr	53	2.654	ug/L	0.014	0	305	3738	1
|	Mn	55	0.032	ug/L	0.004	11	899	1415	6
[	Co	59	0.043	ug/L	0.001	2	48	650	1
[>	Ge	72		ug/L			392434	359962	2
|	Ni	60	0.668	ug/L	0.023	3	47	2032	3
|	Ni	62	4.541	ug/L	0.167	3	85	2143	5
|	Cu	63	0.546	ug/L	0.001	0	279	3969	2
|	Cu	65	0.695	ug/L	0.004	0	93	2352	1
|	Zn	66	1.156	ug/L	0.010	0	751	3141	2
|	Zn	67	1.693	ug/L	0.162	9	145	751	6
|	Zn	68	0.160	ug/L	0.017	10	8019	7594	1
|	As-1	75	0.023	ug/L	0.017	74	-39	7	436
|	As	75	0.125	ug/L	0.029	22	8849	8355	1
|	Se	82	0.037	ug/L	0.041	110	-12	-4	177
|	Se	78	0.499	ug/L	0.144	28	9032	8533	1
[	Mo	98	429.423	ug/L	8.321	1	1392	2882974	0
	Y	89		ug/L			310463	278861	0
	Kr	83		ug/L			81	89	8
[>	In	115		ug/L			464469	417630	1
|	Ag	107	0.034	ug/L	0.000	1	27	459	2
|	Cd	111	0.064	ug/L	0.012	18	218	408	11
|	Cd	114	0.764	ug/L	0.009	1	68	6130	2
|	Sb	121	0.055	ug/L	0.002	3	25	671	2
|	Sb	123	0.057	ug/L	0.003	4	20	522	2
|	Ba	135	0.044	ug/L	0.007	15	15	134	15
[	Ba	137	0.039	ug/L	0.003	8	22	200	7
[>	Tb	159		ug/L			467702	439464	0
|	Tl	205	0.003	ug/L	0.000	7	34	132	4
|	Pb	208	0.043	ug/L	0.002	4	244	2054	4
|	Bi	209		ug/L			375879	333674	1
|	Th	232	0.065	ug/L	0.004	6	177	4158	6
[	U	238	0.002	ug/L	0.000	13	29	129	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 13:01:29
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	**Li**	**6**		ug/L			477376	439311	0
	Be	**9**	**-0.002**	ug/L	0.002	70	2	1	43
	C	**13**		mg/L			5140	18419	0
	Cl	**37**		mg/L			2489408	3549644	1
>	**Sc**	**45**		ug/L			273386	243223	2
	V-1	**51**	**-0.474**	ug/L	0.097	20	2122	-3615	30
	V	**51**	**0.711**	ug/L	0.027	3	767	9160	2
	Cr	**52**	**20.471**	ug/L	0.131	0	6539	214555	2
	Cr	**53**	**22.568**	ug/L	0.281	1	305	28330	1
	Mn	**55**	**20.056**	ug/L	0.268	1	899	348452	0
	Co	**59**	**20.211**	ug/L	0.297	1	48	271705	0
>	**Ge**	**72**		ug/L			392434	348244	0
	Ni	**60**	**20.398**	ug/L	0.127	0	47	58834	0
	Ni	**62**	**24.035**	ug/L	0.097	0	85	10645	0
	Cu	**63**	**20.046**	ug/L	0.191	0	279	132226	0
	Cu	**65**	**20.006**	ug/L	0.116	0	93	63230	1
	Zn	**66**	**20.498**	ug/L	0.042	0	751	42705	0
	Zn	**67**	**18.133**	ug/L	0.186	1	145	6538	0
	Zn	**68**	**18.963**	ug/L	0.075	0	8019	34438	0
	As-1	**75**	**19.827**	ug/L	0.081	0	-39	36282	0
	As	**75**	**19.736**	ug/L	0.091	0	8849	44242	0
	Se	**82**	**0.054**	ug/L	0.021	40	-12	-1	331
	Se	**78**	**0.293**	ug/L	0.155	52	9032	8157	0
	Mo	**98**	**427.133**	ug/L	4.278	1	1392	2775109	1
	Y	**89**		ug/L			310463	273074	1
	Kr	**83**		ug/L			81	89	2
>	**In**	**115**		ug/L			464469	403138	1
	Ag	**107**	**18.943**	ug/L	0.136	0	27	236727	1
	Cd	**111**	**19.288**	ug/L	0.350	1	218	62191	2
	Cd	**114**	**20.049**	ug/L	0.264	1	68	153862	1
	Sb	**121**	**0.048**	ug/L	0.002	3	25	564	4
	Sb	**123**	**0.047**	ug/L	0.002	3	20	422	3
	Ba	**135**	**0.058**	ug/L	0.004	6	15	164	7
	Ba	**137**	**0.057**	ug/L	0.006	10	22	272	9
>	**Tb**	**159**		ug/L			467702	431533	0
	Tl	**205**	**0.001**	ug/L	0.000	41	34	68	22
	Pb	**208**	**0.040**	ug/L	0.001	3	244	1926	3
	Bi	**209**		ug/L			375879	323014	0
	Th	**232**	**0.031**	ug/L	0.001	2	177	2013	2
	U	**238**	**0.000**	ug/L	0.000	54	29	46	22

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 13:08:59
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	457908	2
	Be	9	196.420	ug/L	2.662	1	2	89568	1
	C	13		mg/L			5140	4955	2
	Cl	37		mg/L			2489408	2313748	0
>	Sc	45		ug/L			273386	255199	1
	V-1	51	212.983	ug/L	3.295	1	2122	2604622	2
	V	51	209.609	ug/L	3.653	1	767	2624871	2
	Cr	52	208.337	ug/L	1.439	0	6539	2234895	0
	Cr	53	198.323	ug/L	2.803	1	305	259018	1
	Mn	55	205.234	ug/L	2.640	1	899	3734191	1
	Co	59	207.021	ug/L	1.310	0	48	2920128	0
>	Ge	72		ug/L			392434	364418	0
	Ni	60	195.695	ug/L	0.193	0	47	590287	0
	Ni	62	193.792	ug/L	0.857	0	85	89255	0
	Cu	63	193.623	ug/L	1.456	0	279	1334328	1
	Cu	65	195.558	ug/L	0.851	0	93	646035	0
	Zn	66	193.567	ug/L	0.152	0	751	416126	0
	Zn	67	193.358	ug/L	1.342	0	145	71662	0
	Zn	68	195.110	ug/L	1.250	0	8019	301625	1
	As-1	75	199.193	ug/L	0.254	0	-39	381782	0
	As	75	198.775	ug/L	0.191	0	8849	391739	0
	Se	82	197.804	ug/L	1.283	0	-12	38398	1
	Se	78	196.161	ug/L	0.923	0	9032	107729	0
	Mo	98	202.535	ug/L	0.630	0	1392	1377656	0
	Y	89		ug/L			310463	283888	1
	Kr	83		ug/L			81	111	8
>	In	115		ug/L			464469	425727	1
	Ag	107	204.704	ug/L	0.858	0	27	2701193	1
	Cd	111	196.996	ug/L	1.534	0	218	668878	2
	Cd	114	197.289	ug/L	0.093	0	68	1598433	1
	Sb	121	212.783	ug/L	1.840	0	25	2549819	1
	Sb	123	201.627	ug/L	2.251	1	20	1824672	0
	Ba	135	198.884	ug/L	2.732	1	15	551442	0
	Ba	137	199.161	ug/L	3.411	1	22	937350	1
>	Tb	159		ug/L			467702	440149	0
	Tl	205	196.006	ug/L	2.247	1	34	6189201	1
	Pb	208	195.032	ug/L	1.821	0	244	8352777	0
	Bi	209		ug/L			375879	331675	0
	Th	232	201.688	ug/L	3.723	1	177	12455385	1
	U	238	200.912	ug/L	1.783	0	29	13243859	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 13:16:27
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	462389	0
[	Be	9	290.885	ug/L	5.981	2	2	133948	1
	C	13		mg/L			5140	5337	2
	Cl	37		mg/L			2489408	2421170	0
[>	Sc	45		ug/L			273386	264648	0
[	V-1	51	314.837	ug/L	2.642	0	2122	3991659	0
[	V	51	310.074	ug/L	2.343	0	767	4026274	0
[	Cr	52	307.602	ug/L	3.299	1	6539	3418929	0
[	Cr	53	293.515	ug/L	3.589	1	305	397408	0
[	Mn	55	307.313	ug/L	3.534	1	899	5798018	0
[	Co	59	304.166	ug/L	2.299	0	48	4449377	0
[>	Ge	72		ug/L			392434	378573	0
[	Ni	60	285.226	ug/L	1.470	0	47	893730	0
[	Ni	62	282.470	ug/L	3.514	1	85	135107	0
[	Cu	63	284.568	ug/L	9.952	3	279	2037352	4
[	Cu	65	282.733	ug/L	0.996	0	93	970240	0
[	Zn	66	281.966	ug/L	1.398	0	751	629387	1
[	Zn	67	282.219	ug/L	2.562	0	145	108600	1
[	Zn	68	282.874	ug/L	0.680	0	8019	450805	0
[	As-1	75	293.531	ug/L	0.667	0	-39	584457	0
[	As	75	292.796	ug/L	0.524	0	8849	595405	0
[	Se	82	287.129	ug/L	2.427	0	-12	57908	0
[	Se	78	284.375	ug/L	1.865	0	9032	158321	0
[	Mo	98	313.430	ug/L	3.107	0	1392	2214025	1
	Y	89		ug/L			310463	284042	0
	Kr	83		ug/L			81	134	3
[>	In	115		ug/L			464469	430357	0
[	Ag	107	309.550	ug/L	3.871	1	27	4129088	1
[	Cd	111	293.861	ug/L	1.732	0	218	1008518	0
[	Cd	114	311.313	ug/L	0.897	0	68	2549631	0
[	Sb	121	320.092	ug/L	1.673	0	25	3877816	0
[	Sb	123	323.387	ug/L	2.421	0	20	2958797	0
[	Ba	135	298.478	ug/L	0.997	0	15	836723	0
[	Ba	137	299.755	ug/L	2.198	0	22	1426328	0
[>	Tb	159		ug/L			467702	429249	0
[	Tl	205	305.105	ug/L	2.701	0	34	9395540	0
[	Pb	208	311.329	ug/L	1.762	0	244	13003322	0
[	Bi	209		ug/L			375879	308014	0
[	Th	232	315.170	ug/L	0.505	0	177	18981732	0
[	U	238	311.490	ug/L	0.641	0	29	20024741	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 13:23:58
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	474139	0
[	Be	9	50.207	ug/L	0.126	0	2	23712	0
	C	13		mg/L			5140	4603	2
	Cl	37		mg/L			2489408	2483798	0
[>	Sc	45		ug/L			273386	263382	0
[	V-1	51	50.597	ug/L	0.402	0	2122	640141	0
[	V	51	50.530	ug/L	0.513	1	767	653601	0
[	Cr	52	50.646	ug/L	0.194	0	6539	565500	0
[	Cr	53	50.436	ug/L	0.573	1	305	68205	1
[	Mn	55	50.764	ug/L	0.360	0	899	953912	0
[	Co	59	50.515	ug/L	0.755	1	48	735420	0
[>	Ge	72		ug/L			392434	376104	0
[	Ni	60	50.568	ug/L	0.672	1	47	157457	1
[	Ni	62	50.069	ug/L	0.457	0	85	23861	0
[	Cu	63	50.887	ug/L	0.142	0	279	362118	0
[	Cu	65	50.939	ug/L	0.136	0	93	173740	0
[	Zn	66	51.140	ug/L	0.426	0	751	113995	0
[	Zn	67	50.617	ug/L	0.874	1	145	19464	1
[	Zn	68	50.955	ug/L	0.370	0	8019	86976	0
[	As-1	75	50.498	ug/L	0.494	0	-39	99861	0
[	As	75	50.393	ug/L	0.446	0	8849	108829	0
[	Se	82	50.615	ug/L	0.504	0	-12	10131	0
[	Se	78	50.209	ug/L	0.421	0	9032	34899	0
[	Mo	98	50.197	ug/L	0.345	0	1392	353394	0
	Y	89		ug/L			310463	290487	0
	Kr	83		ug/L			81	91	12
[>	In	115		ug/L			464469	439934	1
[	Ag	107	50.938	ug/L	0.389	0	27	694577	0
[	Cd	111	50.771	ug/L	0.508	1	218	178288	1
[	Cd	114	50.539	ug/L	0.652	1	68	423158	1
[	Sb	121	50.845	ug/L	0.305	0	25	629663	0
[	Sb	123	50.972	ug/L	0.553	1	20	476725	0
[	Ba	135	50.590	ug/L	0.757	1	15	144973	0
[	Ba	137	50.429	ug/L	0.217	0	22	245312	0
[>	Tb	159		ug/L			467702	445809	0
[	Tl	205	47.493	ug/L	0.420	0	34	1518908	0
[	Pb	208	48.854	ug/L	0.620	1	244	2119269	0
[	Bi	209		ug/L			375879	358758	0
[	Th	232	51.029	ug/L	0.600	1	177	3191822	0
[	U	238	51.572	ug/L	0.571	1	29	3443087	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 13:31:15
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	**Li**	**6**		ug/L			477376	489862	1
	Be	**9**	**0.006**	ug/L	0.003	51	2	5	24
	C	**13**		mg/L			5140	4732	2
	Cl	**37**		mg/L			2489408	2515942	0
>	**Sc**	**45**		ug/L			273386	269454	1
	V-1	**51**	**0.003**	ug/L	0.004	113	2122	2135	3
	V	**51**	**0.017**	ug/L	0.001	4	767	980	2
	Cr	**52**	**0.010**	ug/L	0.003	27	6539	6561	1
	Cr	**53**	**0.052**	ug/L	0.009	17	305	372	3
	Mn	**55**	**-0.004**	ug/L	0.002	37	899	804	5
	Co	**59**	**0.016**	ug/L	0.002	12	48	284	11
>	**Ge**	**72**		ug/L			392434	385385	0
	Ni	**60**	**0.010**	ug/L	0.001	9	47	79	3
	Ni	**62**	**0.036**	ug/L	0.018	50	85	102	9
	Cu	**63**	**-0.003**	ug/L	0.003	122	279	254	9
	Cu	**65**	**0.004**	ug/L	0.001	36	93	105	4
	Zn	**66**	**-0.232**	ug/L	0.006	2	751	212	6
	Zn	**67**	**-0.177**	ug/L	0.028	15	145	73	15
	Zn	**68**	**-0.485**	ug/L	0.064	13	8019	7102	0
	As-1	**75**	**0.009**	ug/L	0.005	59	-39	-20	51
	As	**75**	**-0.009**	ug/L	0.040	461	8849	8672	0
	Se	**82**	**-0.015**	ug/L	0.019	125	-12	-15	24
	Se	**78**	**-0.061**	ug/L	0.139	226	9032	8837	0
	Mo	**98**	**-0.156**	ug/L	0.005	3	1392	245	15
	Y	**89**		ug/L			310463	303676	0
	Kr	**83**		ug/L			81	83	3
>	**In**	**115**		ug/L			464469	457874	0
	Ag	**107**	**0.016**	ug/L	0.001	6	27	258	6
	Cd	**111**	**0.009**	ug/L	0.006	68	218	247	8
	Cd	**114**	**0.001**	ug/L	0.002	180	68	76	21
	Sb	**121**	**0.038**	ug/L	0.006	15	25	512	14
	Sb	**123**	**0.037**	ug/L	0.004	10	20	380	9
	Ba	**135**	**0.006**	ug/L	0.002	28	15	32	15
	Ba	**137**	**0.009**	ug/L	0.001	14	22	67	10
>	**Tb**	**159**		ug/L			467702	464174	0
	Tl	**205**	**0.009**	ug/L	0.001	16	34	320	15
	Pb	**208**	**0.008**	ug/L	0.001	8	244	618	5
	Bi	**209**		ug/L			375879	375067	0
	Th	**232**	**0.053**	ug/L	0.002	4	177	3649	4
	U	**238**	**0.009**	ug/L	0.001	10	29	629	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 13:38:27
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	490153	0
[	Be	9	0.002	ug/L	0.005	221	2	4	62
	C	13		mg/L			5140	6151	1
	Cl	37		mg/L			2489408	2510505	0
[>	Sc	45		ug/L			273386	267466	0
[	V-1	51	0.026	ug/L	0.002	5	2122	2415	0
[	V	51	0.018	ug/L	0.001	3	767	992	0
[	Cr	52	U 0.055	ug/L	0.003	5	6539	7015	0
[	Cr	53	0.028	ug/L	0.007	23	305	337	2
[	Mn	55	0.046	ug/L	0.003	7	899	1757	3
[	Co	59	0.010	ug/L	0.001	9	48	202	7
[>	Ge	72		ug/L			392434	379114	0
[	Ni	60	0.043	ug/L	0.004	8	47	182	6
[	Ni	62	0.079	ug/L	0.029	36	85	120	11
[	Cu	63	U 0.087	ug/L	0.005	6	279	895	4
[	Cu	65	0.088	ug/L	0.007	7	93	392	5
[	Zn	66	U 0.395	ug/L	0.008	2	751	1607	0
[	Zn	67	0.414	ug/L	0.108	25	145	299	13
[	Zn	68	0.211	ug/L	0.102	48	8019	8079	2
[	As-1	75	U 0.021	ug/L	0.007	34	-39	4	322
[	As	75	0.064	ug/L	0.005	8	8849	8678	0
[	Se	82	0.043	ug/L	0.051	119	-12	-3	291
[	Se	78	0.232	ug/L	0.036	15	9032	8848	0
[	Mo	98	-0.133	ug/L	0.001	0	1392	402	1
	Y	89		ug/L			310463	300075	0
	Kr	83		ug/L			81	84	4
[>	In	115		ug/L			464469	453701	0
[	Ag	107	U 0.010	ug/L	0.001	6	27	165	6
[	Cd	111	U 0.006	ug/L	0.004	65	218	233	6
[	Cd	114	-0.002	ug/L	0.001	51	68	53	12
[	Sb	121	0.020	ug/L	0.003	17	25	277	15
[	Sb	123	0.021	ug/L	0.001	5	20	218	4
[	Ba	135	0.022	ug/L	0.002	9	15	79	7
[	Ba	137	0.022	ug/L	0.001	6	22	133	5
[>	Tb	159		ug/L			467702	466249	0
[	Tl	205	0.004	ug/L	0.000	5	34	182	3
[	Pb	208	U 0.017	ug/L	0.002	9	244	1009	6
[	Bi	209		ug/L			375879	371534	0
[	Th	232	0.041	ug/L	0.003	8	177	2868	8
[	U	238	0.004	ug/L	0.000	9	29	300	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 MB2 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 13:44:59
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6			ug/L			477376	485706	0
	Be	9	-0.004		ug/L	0.003	68	2	0	173
	C	13			mg/L			5140	6087	2
	Cl	37			mg/L			2489408	2527124	0
>	Sc	45			ug/L			273386	267602	1
	V-1	51	0.012		ug/L	0.003	26	2122	2233	3
	V	51	0.011		ug/L	0.003	28	767	889	3
	Cr	52	0.040	U	ug/L	0.001	2	6539	6848	1
	Cr	53	0.033		ug/L	0.019	56	305	344	6
	Mn	55	0.005		ug/L	0.005	100	899	971	8
	Co	59	0.008		ug/L	0.002	23	48	165	15
>	Ge	72			ug/L			392434	377923	0
	Ni	60	0.024		ug/L	0.006	24	47	122	15
	Ni	62	0.041	U	ug/L	0.014	33	85	102	5
	Cu	63	0.073		ug/L	0.002	3	279	791	3
	Cu	65	0.079	U	ug/L	0.001	0	93	359	1
	Zn	66	0.279		ug/L	0.023	8	751	1343	3
	Zn	67	0.280		ug/L	0.033	11	145	247	4
	Zn	68	0.153	U	ug/L	0.065	42	8019	7961	0
	As-1	75	0.006		ug/L	0.005	78	-39	-25	36
	As	75	0.060		ug/L	0.073	121	8849	8642	1
	Se	82	0.093		ug/L	0.012	13	-12	6	37
	Se	78	0.284		ug/L	0.283	99	9032	8846	1
	Mo	98	-0.165		ug/L	0.003	2	1392	178	12
	Y	89			ug/L			310463	302481	0
	Kr	83			ug/L			81	75	0
>	In	115			ug/L			464469	451519	0
	Ag	107	0.006	U	ug/L	0.001	9	27	112	7
	Cd	111	0.008		ug/L	0.002	18	218	240	2
	Cd	114	-0.004	U	ug/L	0.000	7	68	31	8
	Sb	121	0.014		ug/L	0.001	4	25	208	3
	Sb	123	0.014		ug/L	0.002	13	20	153	12
	Ba	135	0.013		ug/L	0.002	11	15	52	8
	Ba	137	0.015		ug/L	0.002	13	22	95	10
>	Tb	159			ug/L			467702	460951	0
	Tl	205	0.003	U	ug/L	0.000	9	34	117	6
	Pb	208	0.008		ug/L	0.001	8	244	587	4
	Bi	209			ug/L			375879	372159	0
	Th	232	0.023		ug/L	0.003	10	177	1654	10
	U	238	0.002		ug/L	0.000	18	29	157	14

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 MB2SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 13:51:32
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	490545	1
	Be	9	24.580	ug/L	0.419	1	2	12009	0
	C	13		mg/L			5140	7067	2
	Cl	37		mg/L			2489408	2525551	0
>	Sc	45		ug/L			273386	269049	0
	V-1	51	25.726	ug/L	0.234	0	2122	333500	0
	V	51	25.623	ug/L	0.272	1	767	338924	0
	Cr	52	25.705	ug/L	0.234	0	6539	296364	1
	Cr	53	25.390	ug/L	0.275	1	305	35223	1
	Mn	55	26.210	ug/L	0.036	0	899	503554	0
	Co	59	26.410	ug/L	0.096	0	48	392801	0
>	Ge	72		ug/L			392434	382012	0
	Ni	60	26.895	ug/L	0.342	1	47	85080	0
	Ni	62	26.446	ug/L	0.458	1	85	12840	1
	Cu	63	27.471	ug/L	0.071	0	279	198679	0
	Cu	65	27.514	ug/L	0.361	1	93	95359	1
	Zn	66	82.657	ug/L	0.328	0	751	186690	0
	Zn	67	74.280	ug/L	0.253	0	145	28945	0
	Zn	68	81.295	ug/L	0.881	1	8019	136293	0
	As-1	75	24.926	ug/L	0.278	1	-39	50045	0
	As	75	25.121	ug/L	0.249	0	8849	59422	0
	Se	82	79.175	ug/L	0.781	0	-12	16104	1
	Se	78	78.489	ug/L	0.371	0	9032	50460	0
	Mo	98	-0.162	ug/L	0.002	1	1392	202	6
	Y	89		ug/L			310463	305157	0
	Kr	83		ug/L			81	84	5
>	In	115		ug/L			464469	457782	0
	Ag	107	26.326	ug/L	0.329	1	27	373548	0
	Cd	111	25.631	ug/L	0.245	0	218	93762	0
	Cd	114	25.384	ug/L	0.184	0	68	221196	0
	Sb	121	0.013	ug/L	0.001	4	25	191	2
	Sb	123	0.013	ug/L	0.000	2	20	141	1
	Ba	135	25.435	ug/L	0.310	1	15	75855	0
	Ba	137	25.771	ug/L	0.397	1	22	130450	0
>	Tb	159		ug/L			467702	466579	1
	Tl	205	24.134	ug/L	0.319	1	34	807793	0
	Pb	208	25.120	ug/L	0.220	0	244	1140608	0
	Bi	209		ug/L			375879	377192	0
	Th	232	23.888	ug/L	0.322	1	177	1563878	0
	U	238	23.897	ug/L	0.170	0	29	1669828	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 13:58:06
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			477376	493718	0
⌊	Be	9	25.257	ug/L	0.098	0	2	12422	0
	C	13		mg/L			5140	7534	1
	Cl	37		mg/L			2489408	2535542	0
⌈>	Sc	45		ug/L			273386	272492	1
|	V-1	51	25.733	ug/L	0.182	0	2122	337866	0
|	V	51	25.767	ug/L	0.208	0	767	345188	0
|	Cr	52	25.971	ug/L	0.058	0	6539	303200	1
|	Cr	53	26.057	ug/L	0.203	0	305	36603	0
|	Mn	55	28.077	ug/L	0.155	0	899	546241	0
⌊	Co	59	26.570	ug/L	0.261	0	48	400217	0
⌈>	Ge	72		ug/L			392434	385318	0
|	Ni	60	27.068	ug/L	0.250	0	47	86372	1
|	Ni	62	26.831	ug/L	0.305	1	85	13138	1
|	Cu	63	27.885	ug/L	0.274	0	279	203427	1
|	Cu	65	27.492	ug/L	0.285	1	93	96106	1
|	Zn	66	83.817	ug/L	0.690	0	751	190946	1
|	Zn	67	76.000	ug/L	1.276	1	145	29868	1
|	Zn	68	83.235	ug/L	0.529	0	8019	140567	0
|	As-1	75	25.375	ug/L	0.323	1	-39	51388	0
|	As	75	25.378	ug/L	0.337	1	8849	60460	0
|	Se	82	80.991	ug/L	0.220	0	-12	16616	0
|	Se	78	79.561	ug/L	0.136	0	9032	51470	0
⌊	Mo	98	-0.172	ug/L	0.001	0	1392	132	7
	Y	89		ug/L			310463	309680	0
	Kr	83		ug/L			81	90	6
⌈>	In	115		ug/L			464469	460022	1
|	Ag	107	26.639	ug/L	0.265	0	27	379846	1
|	Cd	111	25.751	ug/L	0.493	1	218	94654	0
|	Cd	114	25.681	ug/L	0.455	1	68	224863	1
|	Sb	121	0.011	ug/L	0.001	5	25	165	3
|	Sb	123	0.010	ug/L	0.001	12	20	114	10
|	Ba	135	26.012	ug/L	0.204	0	15	77957	0
⌊	Ba	137	26.032	ug/L	0.265	1	22	132423	0
⌈>	Tb	159		ug/L			467702	469912	0
|	Tl	205	24.483	ug/L	0.274	1	34	825392	1
|	Pb	208	25.276	ug/L	0.218	0	244	1155911	0
|	Bi	209		ug/L			375879	379027	0
|	Th	232	24.166	ug/L	0.171	0	177	1593442	0
⌊	U	238	24.077	ug/L	0.054	0	29	1694476	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 A-L REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, May 10, 2011 14:04:40
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	478691	0
	Be	9	0.008	ug/L	0.012	151	2	6	84
	C	13		mg/L			5140	5198	3
	Cl	37		mg/L			2489408	2454689	1
>	Sc	45		ug/L			273386	271036	1
	V-1	51	2.579	ug/L	0.005	0	2122	35576	1
	V	51	2.519	ug/L	0.011	0	767	34255	1
	Cr	52	0.156	ug/L	0.015	9	6539	8259	1
	Cr	53	0.150	ug/L	0.023	15	305	510	6
	Mn	55	45.380	ug/L	0.380	0	899	877589	1
	Co	59	0.266	ug/L	0.004	1	48	4025	0
>	Ge	72		ug/L			392434	371199	0
	Ni	60	0.470	ug/L	0.012	2	47	1490	2
	Ni	62	0.520	ug/L	0.056	10	85	324	7
	Cu	63	0.760	ug/L	0.014	1	279	5598	2
	Cu	65	0.730	ug/L	0.027	3	93	2543	3
	Zn	66	0.522	ug/L	0.020	3	751	1852	3
	Zn	67	0.753	ug/L	0.061	8	145	420	4
	Zn	68	0.473	ug/L	0.035	7	8019	8312	1
	As-1	75	0.433	ug/L	0.004	1	-39	808	0
	As	75	0.441	ug/L	0.006	1	8849	9237	0
	Se	82	0.050	ug/L	0.064	127	-12	-2	619
	Se	78	0.097	ug/L	0.012	12	9032	8594	0
	Mo	98	1.112	ug/L	0.017	1	1392	9013	1
	Y	89		ug/L			310463	297380	0
	Kr	83		ug/L			81	78	13
>	In	115		ug/L			464469	441650	0
	Ag	107	0.010	ug/L	0.001	8	27	160	7
	Cd	111	0.015	ug/L	0.005	30	218	261	5
	Cd	114	0.004	ug/L	0.002	36	68	102	13
	Sb	121	0.051	ug/L	0.002	4	25	664	4
	Sb	123	0.052	ug/L	0.002	4	20	508	3
	Ba	135	2.889	ug/L	0.056	1	15	8325	1
	Ba	137	2.912	ug/L	0.025	0	22	14239	1
>	Tb	159		ug/L			467702	458873	0
	Tl	205	0.005	ug/L	0.001	25	34	201	21
	Pb	208	0.108	ug/L	0.002	1	244	5080	1
	Bi	209		ug/L			375879	359962	1
	Th	232	0.071	ug/L	0.003	4	177	4733	4
	U	238	0.086	ug/L	0.001	1	29	5967	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 14:11:14
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	469072	0
[	Be	9	0.046	ug/L	0.004	9	2	24	7
	C	13		mg/L			5140	6757	1
	Cl	37		mg/L			2489408	2362233	1
[>	Sc	45		ug/L			273386	314217	1
[	V-1	51	11.027	ug/L	0.115	1	2122	168347	1
[	V	51	10.796	ug/L	0.112	1	767	167294	1
[	Cr	52	0.535	ug/L	0.011	2	6539	14569	1
[	Cr	53	0.597	ug/L	0.007	1	305	1309	1
[	Mn	55	198.035	ug/L	1.138	0	899	4436580	1
[	Co	59	1.067	ug/L	0.017	1	48	18583	1
[>	Ge	72		ug/L			392434	360557	0
[	Ni	60	2.333	ug/L	0.021	0	47	7005	1
[	Ni	62	2.384	ug/L	0.085	3	85	1164	3
[	Cu	63	3.601	ug/L	0.075	2	279	24802	2
[	Cu	65	3.492	ug/L	0.037	1	93	11498	0
[	Zn	66	2.664	ug/L	0.039	1	751	6348	1
[	Zn	67	3.748	ug/L	0.177	4	145	1505	4
[	Zn	68	3.040	ug/L	0.090	2	8019	11903	1
[	As-1	75	2.145	ug/L	0.031	1	-39	4031	1
[	As	75	2.090	ug/L	0.052	2	8849	12120	1
[	Se	82	0.354	ug/L	0.026	7	-12	56	9
[	Se	78	0.186	ug/L	0.193	103	9032	8392	1
[	Mo	98	6.402	ug/L	0.055	0	1392	44323	1
	Y	89		ug/L			310463	309749	1
	Kr	83		ug/L			81	74	3
[>	In	115		ug/L			464469	428076	0
[	Ag	107	0.017	ug/L	0.001	4	27	250	4
[	Cd	111	0.066	ug/L	0.006	9	218	425	4
[	Cd	114	0.027	ug/L	0.002	7	68	285	5
[	Sb	121	0.231	ug/L	0.005	2	25	2802	2
[	Sb	123	0.236	ug/L	0.004	1	20	2165	2
[	Ba	135	14.188	ug/L	0.087	0	15	39574	0
[	Ba	137	14.347	ug/L	0.210	1	22	67917	0
[>	Tb	159		ug/L			467702	450300	0
[	Tl	205	0.008	ug/L	0.001	9	34	300	7
[	Pb	208	0.499	ug/L	0.003	0	244	22103	0
[	Bi	209		ug/L			375879	343400	0
[	Th	232	0.191	ug/L	0.005	2	177	12258	1
[	U	238	0.415	ug/L	0.001	0	29	27994	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 ADUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 14:17:49
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			477376	465389	0
[	Be	9	0.044		ug/L	0.009	20	2	23	17
	C	13			mg/L			5140	6491	0
	Cl	37			mg/L			2489408	2288067	0
[>	Sc	45			ug/L			273386	303515	1
[	V-1	51	10.640		ug/L	0.153	1	2122	156976	0
[	V	51	10.414		ug/L	0.153	1	767	155886	0
[	Cr	52	0.518		ug/L	0.016	3	6539	13852	0
[	Cr	53	0.566		ug/L	0.023	4	305	1216	1
[	Mn	55	194.055		ug/L	0.880	0	899	4199185	0
[	Co	59	1.042		ug/L	0.024	2	48	17526	1
[>	Ge	72			ug/L			392434	358128	0
[	Ni	60	2.167		ug/L	0.037	1	47	6466	1
[	Ni	62	2.243		ug/L	0.064	2	85	1092	2
[	Cu	63	3.281		ug/L	0.016	0	279	22470	0
[	Cu	65	3.210		ug/L	0.060	1	93	10503	1
[	Zn	66		J	2.544	ug/L	0.048	1	751	6052
[	Zn	67	3.622		ug/L	0.047	1	145	1448	1
[	Zn	68	2.803		ug/L	0.074	2	8019	11471	0
[	As-1	75	2.027		ug/L	0.021	1	-39	3782	1
[	As	75	1.979		ug/L	0.058	2	8849	11828	0
[	Se	82	0.319		ug/L	0.020	6	-12	49	7
[	Se	78	0.167		ug/L	0.161	96	9032	8325	0
[	Mo	98	6.021		ug/L	0.063	1	1392	41480	1
	Y	89			ug/L			310463	306555	0
	Kr	83			ug/L			81	71	6
[>	In	115		U	ug/L			464469	419898	0
[	Ag	107	0.013		ug/L	0.000	2	27	193	0
[	Cd	111		J	0.043	ug/L	0.011	24	218	339
[	Cd	114	0.022		ug/L	0.001	3	68	236	3
[	Sb	121	0.217		ug/L	0.008	3	25	2591	2
[	Sb	123	0.216		ug/L	0.003	1	20	1942	0
[	Ba	135	13.249		ug/L	0.147	1	15	36249	0
[	Ba	137	13.376		ug/L	0.114	0	22	62117	0
[>	Tb	159			ug/L			467702	450414	1
[	Tl	205	0.006		ug/L	0.000	3	34	224	3
[	Pb	208	0.457		ug/L	0.002	0	244	20270	0
[	Bi	209			ug/L			375879	339520	0
[	Th	232	0.135		ug/L	0.002	1	177	8721	0
[	U	238	0.389		ug/L	0.009	2	29	26242	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 ASPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 14:24:24
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			477376	471763	0
⌊	Be	9	25.632	ug/L	0.199	0	2	12046	1
	C	13		mg/L			5140	6175	2
	Cl	37		mg/L			2489408	2268358	0
⌈>	Sc	45		ug/L			273386	306329	1
⌈	V-1	51	32.942	ug/L	0.520	1	2122	485473	0
⌊	V	51	32.673	ug/L	0.496	1	767	491762	0
⌈	Cr	52	22.093	ug/L	0.211	0	6539	291022	1
⌊	Cr	53	22.065	ug/L	0.134	0	305	34896	1
⌈	Mn	55	224.174	ug/L	3.889	1	899	4894958	0
⌊	Co	59	23.106	ug/L	0.439	1	48	391198	0
⌈>	Ge	72		ug/L			392434	354652	1
⌈	Ni	60	29.202	ug/L	0.304	1	47	85753	0
⌊	Ni	62	28.858	ug/L	0.527	1	85	13000	1
⌈	Cu	63	30.397	ug/L	0.241	0	279	204061	0
⌊	Cu	65	30.313	ug/L	0.379	1	93	97520	0
⌈	Zn	66	84.177	ug/L	0.872	1	751	176484	0
⌊	Zn	67	77.033	ug/L	1.581	2	145	27861	1
⌈	Zn	68	83.229	ug/L	0.163	0	8019	129369	0
⌊	As-1	75	28.930	ug/L	0.104	0	-39	53932	1
⌈	As	75	28.508	ug/L	0.057	0	8849	61526	0
⌊	Se	82	84.372	ug/L	0.229	0	-12	15933	1
⌈	Se	78	81.295	ug/L	0.478	0	9032	48228	0
⌊	Mo	98	6.421	ug/L	0.064	0	1392	43722	0
	Y	89		ug/L			310463	305772	0
	Kr	83		ug/L			81	76	9
⌈>	In	115		ug/L			464469	421354	0
⌈	Ag	107	25.790	ug/L	0.119	0	27	336844	0
⌈	Cd	111	26.112	ug/L	0.204	0	218	87921	1
⌊	Cd	114	26.222	ug/L	0.130	0	68	210321	0
⌈	Sb	121	0.229	ug/L	0.001	0	25	2740	1
⌊	Sb	123	0.237	ug/L	0.008	3	20	2138	4
⌈	Ba	135	40.176	ug/L	0.331	0	15	110281	1
⌊	Ba	137	40.443	ug/L	0.370	0	22	188436	1
⌈>	Tb	159		ug/L			467702	453737	0
⌈	Tl	205	23.630	ug/L	0.072	0	34	769239	0
⌊	Pb	208	24.881	ug/L	0.009	0	244	1098726	0
⌈	Bi	209		ug/L			375879	342478	0
⌊	Th	232	24.078	ug/L	0.080	0	177	1533039	0
⌊	U	238	24.685	ug/L	0.169	0	29	1677493	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~SU14 APOST REN~~ 222222
Sample Dil Factor: 2
Comments: RW 5.10
Sample Date/Time: Tuesday, May 10, 2011 14:31:00
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	455168	1
[	Be	9	24.840	ug/L	0.416	1	2	11262	1
	C	13		mg/L			5140	6125	1
	Cl	37		mg/L			2489408	2203399	0
[>	Sc	45		ug/L			273386	303243	0
[	V-1	51	32.417	ug/L	0.522	1	2122	473015	0
[	V	51	32.071	ug/L	0.534	1	767	477901	1
[	Cr	52	21.357	ug/L	0.122	0	6539	278750	0
[	Cr	53	21.108	ug/L	0.188	0	305	33061	0
[	Mn	55	220.234	ug/L	1.278	0	899	4761388	0
[	Co	59	22.211	ug/L	0.171	0	48	372335	0
[>	Ge	72		ug/L			392434	343982	0
[	Ni	60	28.476	ug/L	0.115	0	47	81113	0
[	Ni	62	28.572	ug/L	0.539	1	85	12484	1
[	Cu	63	29.708	ug/L	0.276	0	279	193446	0
[	Cu	65	29.632	ug/L	0.270	0	93	92465	0
[	Zn	66	81.556	ug/L	0.677	0	751	165874	0
[	Zn	67	75.765	ug/L	0.301	0	145	26582	0
[	Zn	68	81.832	ug/L	0.346	0	8019	123492	0
[	As-1	75	28.035	ug/L	0.360	1	-39	50687	0
[	As	75	27.661	ug/L	0.237	0	8849	58131	0
[	Se	82	81.712	ug/L	1.054	1	-12	14965	0
[	Se	78	78.881	ug/L	0.829	1	9032	45623	0
[	Mo	98	6.402	ug/L	0.097	1	1392	42281	0
	Y	89		ug/L			310463	301633	0
	Kr	83		ug/L			81	77	7
[>	In	115		ug/L			464469	409481	0
[	Ag	107	24.691	ug/L	0.355	1	27	313379	0
[	Cd	111	25.275	ug/L	0.248	0	218	82708	0
[	Cd	114	25.103	ug/L	0.390	1	68	195659	0
[	Sb	121	0.227	ug/L	0.003	1	25	2637	0
[	Sb	123	0.231	ug/L	0.001	0	20	2032	0
[	Ba	135	39.410	ug/L	0.384	0	15	105125	0
[	Ba	137	39.743	ug/L	0.394	0	22	179950	0
[>	Tb	159		ug/L			467702	448686	0
[	Tl	205	22.683	ug/L	0.232	1	34	730162	0
[	Pb	208	23.843	ug/L	0.281	1	244	1041153	0
[	Bi	209		ug/L			375879	331655	0
[	Th	232	23.168	ug/L	0.180	0	177	1458630	0
[	U	238	23.365	ug/L	0.200	0	29	1570155	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 14:37:36
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			477376	464615	1
[	Be	9	0.041		ug/L	0.015	36	2	21	31
	C	13			mg/L			5140	5917	1
	Cl	37			mg/L			2489408	2157126	0
[>	Sc	45			ug/L			273386	303362	1
[	V-1	51	5.518		ug/L	0.073	1	2122	82511	2
[	V	51	5.411		ug/L	0.071	1	767	81386	2
[	Cr	52	0.659		ug/L	0.018	2	6539	15643	2
[	Cr	53	0.689		ug/L	0.022	3	305	1408	3
[	Mn	55	389.161		ug/L	5.002	1	899	8416530	1
[	Co	59	2.205		ug/L	0.011	0	48	37026	0
[>	Ge	72			ug/L			392434	341983	0
[	Ni	60	2.634		ug/L	0.040	1	47	7498	1
[	Ni	62	2.568		ug/L	0.075	2	85	1183	3
[	Cu	63	3.090		ug/L	0.018	0	279	20220	0
[	Cu	65	2.987		ug/L	0.028	0	93	9340	0
[	Zn	66	8.484		ug/L	0.039	0	751	17742	0
[	Zn	67	8.593		ug/L	0.309	3	145	3109	3
[	Zn	68	9.055		ug/L	0.179	1	8019	19800	1
[	As-1	75	4.462		ug/L	0.010	0	-39	7992	0
[	As	75	4.357		ug/L	0.053	1	8849	15600	0
[	Se	82	0.280		ug/L	0.012	4	-12	39	5
[	Se	78	-0.005		ug/L	0.153	3051	9032	7868	0
[	Mo	98	2.772		ug/L	0.046	1	1392	18893	1
	Y	89			ug/L			310463	304050	1
	Kr	83			ug/L			81	73	11
[>	In	115			ug/L			464469	407767	0
[	Ag	107	0.020	U	ug/L	0.001	6	27	273	6
[	Cd	111	0.065	U	ug/L	0.005	7	218	402	4
[	Cd	114	0.032		ug/L	0.002	5	68	306	4
[	Sb	121	0.131		ug/L	0.003	2	25	1522	2
[	Sb	123	0.132		ug/L	0.005	3	20	1163	3
[	Ba	135	31.550		ug/L	0.482	1	15	83808	0
[	Ba	137	31.830		ug/L	0.107	0	22	143527	0
[>	Tb	159			ug/L			467702	447692	0
[	Tl	205	0.016		ug/L	0.001	6	34	558	5
[	Pb	208	0.512		ug/L	0.009	1	244	22543	1
[	Bi	209			ug/L			375879	332681	0
[	Th	232	0.161		ug/L	0.005	2	177	10284	2
[	U	238	0.357		ug/L	0.004	1	29	23991	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 14:44:11
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	453556	1
	Be	9	49.378	ug/L	0.533	1	2	22307	0
	C	13		mg/L			5140	3678	2
	Cl	37		mg/L			2489408	2213707	0
>	Sc	45		ug/L			273386	238095	0
	V-1	51	51.134	ug/L	1.117	2	2122	584765	1
	V	51	50.876	ug/L	1.105	2	767	594856	1
	Cr	52	50.976	ug/L	0.548	1	6539	514480	0
	Cr	53	50.196	ug/L	0.550	1	305	61363	0
	Mn	55	50.137	ug/L	0.071	0	899	851698	0
	Co	59	51.311	ug/L	0.418	0	48	675309	0
>	Ge	72		ug/L			392434	341665	0
	Ni	60	51.415	ug/L	0.370	0	47	145432	0
	Ni	62	50.066	ug/L	0.355	0	85	21675	0
	Cu	63	51.067	ug/L	0.098	0	279	330120	0
	Cu	65	51.102	ug/L	0.077	0	93	158335	0
	Zn	66	51.331	ug/L	0.530	1	751	103942	1
	Zn	67	49.788	ug/L	1.302	2	145	17394	2
	Zn	68	50.731	ug/L	0.764	1	8019	78695	1
	As-1	75	50.836	ug/L	0.540	1	-39	91325	1
	As	75	50.521	ug/L	0.413	0	8849	99095	0
	Se	82	52.728	ug/L	0.623	1	-12	9588	1
	Se	78	51.521	ug/L	0.182	0	9032	32326	0
	Mo	98	51.728	ug/L	0.308	0	1392	330786	0
	Y	89		ug/L			310463	276803	1
	Kr	83		ug/L			81	90	4
>	In	115		ug/L			464469	404700	0
	Ag	107	50.213	ug/L	0.385	0	27	629871	0
	Cd	111	50.439	ug/L	0.594	1	218	162931	0
	Cd	114	50.780	ug/L	0.206	0	68	391136	0
	Sb	121	50.824	ug/L	0.165	0	25	579015	0
	Sb	123	50.879	ug/L	0.638	1	20	437750	0
	Ba	135	49.797	ug/L	0.588	1	15	131277	0
	Ba	137	50.569	ug/L	0.296	0	22	226290	0
>	Tb	159		ug/L			467702	436621	1
	Tl	205	45.551	ug/L	0.762	1	34	1426677	0
	Pb	208	47.199	ug/L	0.861	1	244	2005140	0
	Bi	209		ug/L			375879	335220	0
	Th	232	48.886	ug/L	1.008	2	177	2994480	0
	U	238	49.437	ug/L	1.092	2	29	3232194	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 14:51:24
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	474584	0
[	Be	9	0.005	ug/L	0.006	104	2	5	48
	C	13		mg/L			5140	3839	1
	Cl	37		mg/L			2489408	2280472	0
[>	Sc	45		ug/L			273386	247657	0
|	V-1	51	0.007	ug/L	0.006	76	2122	2011	3
|	V	51	-0.005	ug/L	0.003	55	767	638	5
|	Cr	52	-0.005	ug/L	0.012	248	6539	5876	1
|	Cr	53	-0.041	ug/L	0.018	43	305	225	10
|	Mn	55	0.001	ug/L	0.002	185	899	835	5
[	Co	59	0.008	ug/L	0.001	9	48	156	7
[>	Ge	72		ug/L			392434	352210	0
|	Ni	60	0.003	ug/L	0.004	109	47	52	20
|	Ni	62	0.000	ug/L	0.005	4063	85	77	2
|	Cu	63	-0.006	ug/L	0.002	29	279	210	4
|	Cu	65	-0.000	ug/L	0.002	1633	93	83	9
|	Zn	66	-0.234	ug/L	0.004	1	751	189	3
|	Zn	67	-0.195	ug/L	0.025	12	145	60	15
|	Zn	68	-0.604	ug/L	0.026	4	8019	6317	0
|	As-1	75	-0.011	ug/L	0.016	142	-39	-55	52
|	As	75	-0.072	ug/L	0.064	87	8849	7807	0
|	Se	82	0.019	ug/L	0.032	165	-12	-7	78
|	Se	78	-0.218	ug/L	0.244	111	9032	7999	0
[	Mo	98	-0.165	ug/L	0.003	1	1392	163	12
	Y	89		ug/L			310463	288277	0
	Kr	83		ug/L			81	72	9
[>	In	115		ug/L			464469	421227	0
|	Ag	107	0.013	ug/L	0.001	7	27	190	7
|	Cd	111	0.002	ug/L	0.003	207	218	202	5
|	Cd	114	-0.002	ug/L	0.001	50	68	49	12
|	Sb	121	0.016	ug/L	0.003	19	25	210	16
|	Sb	123	0.017	ug/L	0.003	20	20	169	17
|	Ba	135	0.004	ug/L	0.001	24	15	25	12
[	Ba	137	0.006	ug/L	0.001	9	22	47	5
[>	Tb	159		ug/L			467702	452916	0
|	Tl	205	0.004	ug/L	0.001	23	34	175	18
|	Pb	208	0.005	ug/L	0.000	5	244	435	2
|	Bi	209		ug/L			375879	350250	0
|	Th	232	0.048	ug/L	0.003	6	177	3224	6
[	U	238	0.006	ug/L	0.001	19	29	401	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 F-L REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, May 10, 2011 14:58:40
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6			ug/L			477376	472357	0
	Be	9	0.002		ug/L	0.003	145	2	3	33
	C	13			mg/L			5140	4584	0
	Cl	37			mg/L			2489408	2243084	0
>	Sc	45			ug/L			273386	253007	1
	V-1	51	2.215		ug/L	0.007	0	2122	28797	1
	V	51	2.161		ug/L	0.011	0	767	27526	1
	Cr	52		U	0.018	ug/L	0.010	52	6539	6246	2
	Cr	53	0.013		ug/L	0.003	27	305	299	2
	Mn	55	46.206		ug/L	0.859	1	899	834006	0
	Co	59	0.246		ug/L	0.004	1	48	3481	0
>	Ge	72			ug/L			392434	351048	0
	Ni	60	0.415		ug/L	0.008	2	47	1248	2
	Ni	62	0.301	U	ug/L	0.011	3	85	210	2
	Cu	63	0.256		ug/L	0.005	1	279	1949	1
	Cu	65	0.220		ug/L	0.005	2	93	784	1
	Zn	66		U	0.177	ug/L	0.009	5	751	1038	1
	Zn	67	0.384		ug/L	0.024	6	145	266	3
	Zn	68	-0.236		ug/L	0.029	12	8019	6831	0
	As-1	75	0.405		ug/L	0.007	1	-39	712	1
	As	75	0.298		ug/L	0.025	8	8849	8469	0
	Se	82	0.117		ug/L	0.020	17	-12	10	35
	Se	78	-0.307		ug/L	0.097	31	9032	7930	0
	Mo	98	1.196		ug/L	0.020	1	1392	9075	1
	Y	89			ug/L			310463	288079	0
	Kr	83			ug/L			81	68	2
>	In	115			ug/L			464469	419814	1
	Ag	107		U	0.005	ug/L	0.001	22	27	84	14
	Cd	111		U	0.004	ug/L	0.003	86	218	209	5
	Cd	114	-0.002		ug/L	0.001	61	68	46	19
	Sb	121	0.060		ug/L	0.002	3	25	728	1
	Sb	123	0.057		ug/L	0.003	5	20	526	4
	Ba	135	1.768		ug/L	0.007	0	15	4849	1
	Ba	137	1.811		ug/L	0.051	2	22	8426	1
>	Tb	159			ug/L			467702	450514	2
	Tl	205	0.002		ug/L	0.001	28	34	102	17
	Pb	208		U	0.009	ug/L	0.001	6	244	642	4
	Bi	209			ug/L			375879	347396	0
	Th	232	0.021		ug/L	0.001	6	177	1504	6
	U	238	0.066		ug/L	0.002	2	29	4476	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 15:05:18
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	451910	0
[	Be	9	0.014	ug/L	0.008	59	2	9	41
	C	13		mg/L			5140	6405	2
	Cl	37		mg/L			2489408	2208662	0
[>	Sc	45		ug/L			273386	287634	0
|	V-1	51	9.675	ug/L	0.056	0	2122	135485	0
|	V	51	9.453	ug/L	0.053	0	767	134191	0
|	Cr	52	0.039	ug/L	0.005	13	6539	7351	0
|	Cr	53	0.065	ug/L	0.006	8	305	417	2
|	Mn	55	205.454	ug/L	0.264	0	899	4213346	0
[	Co	59	1.019	ug/L	0.016	1	48	16248	1
[>	Ge	72		ug/L			392434	337588	0
|	Ni	60	1.942	ug/L	0.068	3	47	5467	3
|	Ni	62	1.445	ug/L	0.063	4	85	690	4
|	Cu	63	1.216	ug/L	0.028	2	279	8002	2
|	Cu	65	1.084	ug/L	0.004	0	93	3395	0
|	Zn	66	1.636	ug/L	0.047	2	751	3899	2
|	Zn	67	2.648	ug/L	0.136	5	145	1032	4
|	Zn	68	1.797	ug/L	0.085	4	8019	9408	1
|	As-1	75	2.030	ug/L	0.008	0	-39	3570	0
|	As	75	1.940	ug/L	0.056	2	8849	11079	1
|	Se	82	0.348	ug/L	0.015	4	-12	51	5
|	Se	78	0.062	ug/L	0.210	338	9032	7799	1
[	Mo	98	6.851	ug/L	0.057	0	1392	44328	0
	Y	89		ug/L			310463	281253	0
	Kr	83		ug/L			81	72	4
[>	In	115		ug/L			464469	400601	0
|	Ag	107	0.007	ug/L	0.001	8	27	111	6
|	Cd	111	0.014	ug/L	0.011	80	218	232	15
|	Cd	114	0.011	ug/L	0.001	13	68	143	8
|	Sb	121	0.265	ug/L	0.003	1	25	3011	0
|	Sb	123	0.264	ug/L	0.010	3	20	2266	4
|	Ba	135	8.941	ug/L	0.154	1	15	23344	2
[	Ba	137	8.985	ug/L	0.108	1	22	39816	0
[>	Tb	159		ug/L			467702	440010	0
|	Tl	205	0.004	ug/L	0.000	6	34	162	5
|	Pb	208	0.023	ug/L	0.000	1	244	1200	1
|	Bi	209		ug/L			375879	327465	0
|	Th	232	0.044	ug/L	0.003	7	177	2860	6
[	U	238	0.322	ug/L	0.004	1	29	21235	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 FDUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 15:11:51
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			477376	451332	0
[	Be	9	0.009		ug/L	0.012	133	2	6	78
	C	13			mg/L			5140	6447	1
	Cl	37			mg/L			2489408	2188780	0
[>	Sc	45			ug/L			273386	287873	0
[	V-1	51	9.404		ug/L	0.010	0	2122	131863	0
[	V	51	9.188		ug/L	0.011	0	767	130555	0
[	Cr	52	0.038	U	ug/L	0.005	13	6539	7343	0
[	Cr	53	0.061		ug/L	0.026	42	305	411	9
[	Mn	55	200.848		ug/L	0.868	0	899	4122296	0
[	Co	59	0.993		ug/L	0.007	0	48	15847	0
[>	Ge	72			ug/L			392434	337736	0
[	Ni	60	1.934		ug/L	0.052	2	47	5447	2
[	Ni	62	1.492		ug/L	0.025	1	85	710	2
[	Cu	63	1.216		ug/L	0.018	1	279	8007	1
[	Cu	65	1.086		ug/L	0.029	2	93	3405	2
[	Zn	66	1.172	U	ug/L	0.025	2	751	2979	2
[	Zn	67	2.087		ug/L	0.101	4	145	840	3
[	Zn	68	1.211		ug/L	0.148	12	8019	8593	1
[	As-1	75	1.989		ug/L	0.007	0	-39	3499	1
[	As	75	1.863		ug/L	0.040	2	8849	10947	0
[	Se	82	0.338		ug/L	0.028	8	-12	49	9
[	Se	78	-0.080		ug/L	0.180	224	9032	7735	0
[	Mo	98	6.594		ug/L	0.068	1	1392	42732	1
	Y	89			ug/L			310463	278894	1
	Kr	83			ug/L			81	73	6
[>	In	115			ug/L			464469	399779	0
[	Ag	107	0.004	U	ug/L	0.001	31	27	74	20
[	Cd	111	0.009	U	ug/L	0.007	77	218	215	10
[	Cd	114	0.012		ug/L	0.003	25	68	148	15
[	Sb	121	0.260		ug/L	0.006	2	25	2947	1
[	Sb	123	0.258		ug/L	0.014	5	20	2207	5
[	Ba	135	8.685		ug/L	0.038	0	15	22629	0
[	Ba	137	8.735		ug/L	0.037	0	22	38630	0
[>	Tb	159			ug/L			467702	439969	0
[	Tl	205	0.003		ug/L	0.000	3	34	130	2
[	Pb	208	0.023	J	ug/L	0.001	3	244	1207	2
[	Bi	209			ug/L			375879	327121	0
[	Th	232	0.019		ug/L	0.001	6	177	1336	5
[	U	238	0.313		ug/L	0.001	0	29	20667	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 FSPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 15:18:22
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	457474	1
[	Be	9	26.020	ug/L	0.390	1	2	11858	1
	C	13		mg/L			5140	6238	1
	Cl	37		mg/L			2489408	2167286	0
[>	Sc	45		ug/L			273386	288734	1
|	V-1	51	32.902	ug/L	0.233	0	2122	457113	1
|	V	51	32.714	ug/L	0.229	0	767	464152	1
|	Cr	52	22.782	ug/L	0.330	1	6539	282646	1
|	Cr	53	22.948	ug/L	0.393	1	305	34190	0
|	Mn	55	234.446	ug/L	0.153	0	899	4826116	1
[	Co	59	24.253	ug/L	0.202	0	48	387078	0
[>	Ge	72		ug/L			392434	336357	0
|	Ni	60	29.884	ug/L	0.477	1	47	83232	1
|	Ni	62	29.255	ug/L	0.305	1	85	12499	0
|	Cu	63	29.078	ug/L	0.265	0	279	185159	1
|	Cu	65	28.398	ug/L	0.165	0	93	86657	0
|	Zn	66	84.939	ug/L	0.299	0	751	168900	0
|	Zn	67	77.307	ug/L	0.370	0	145	26520	0
|	Zn	68	84.453	ug/L	0.357	0	8019	124401	0
|	As-1	75	29.832	ug/L	0.193	0	-39	52744	0
|	As	75	29.245	ug/L	0.283	0	8849	59665	0
|	Se	82	88.645	ug/L	0.583	0	-12	15876	0
|	Se	78	84.868	ug/L	0.552	0	9032	47411	0
[	Mo	98	7.033	ug/L	0.061	0	1392	45307	1
	Y	89		ug/L			310463	280289	0
	Kr	83		ug/L			81	75	4
[>	In	115		ug/L			464469	397962	0
|	Ag	107	26.565	ug/L	0.166	0	27	327711	0
|	Cd	111	26.844	ug/L	0.116	0	218	85363	0
|	Cd	114	27.035	ug/L	0.398	1	68	204802	1
|	Sb	121	0.280	ug/L	0.005	1	25	3154	1
|	Sb	123	0.276	ug/L	0.007	2	20	2353	2
|	Ba	135	36.603	ug/L	0.292	0	15	94895	0
[	Ba	137	36.767	ug/L	0.175	0	22	161796	0
[>	Tb	159		ug/L			467702	444523	0
|	Tl	205	24.110	ug/L	0.161	0	34	768884	0
|	Pb	208	24.859	ug/L	0.222	0	244	1075420	0
|	Bi	209		ug/L			375879	327945	0
|	Th	232	24.617	ug/L	0.120	0	177	1535490	0
[	U	238	25.120	ug/L	0.170	0	29	1672306	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 FPOST REN 22222-
Sample Dil Factor: 2 B2 5.10
Comments:
Sample Date/Time: Tuesday, May 10, 2011 15:24:52
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	440046	1
[	Be	9	24.291	ug/L	0.151	0	2	10649	1
	C	13		mg/L			5140	6350	3
	Cl	37		mg/L			2489408	2129506	0
[>	Sc	45		ug/L			273386	273445	1
[	V-1	51	31.521	ug/L	0.188	0	2122	414863	1
[	V	51	31.256	ug/L	0.132	0	767	420061	1
[	Cr	52	21.604	ug/L	0.131	0	6539	254199	1
[	Cr	53	21.518	ug/L	0.058	0	305	30386	1
[	Mn	55	226.691	ug/L	2.503	1	899	4418983	0
[	Co	59	22.805	ug/L	0.395	1	48	344690	0
[>	Ge	72		ug/L			392434	324735	1
[	Ni	60	27.853	ug/L	0.224	0	47	74896	0
[	Ni	62	27.107	ug/L	0.196	0	85	11186	1
[	Cu	63	27.262	ug/L	0.163	0	279	167617	1
[	Cu	65	26.798	ug/L	0.558	2	93	78944	1
[	Zn	66	80.660	ug/L	0.276	0	751	154877	1
[	Zn	67	73.707	ug/L	1.065	1	145	24415	1
[	Zn	68	79.581	ug/L	0.986	1	8019	113568	2
[	As-1	75	28.081	ug/L	0.049	0	-39	47932	1
[	As	75	27.698	ug/L	0.250	0	8849	54947	2
[	Se	82	81.576	ug/L	0.892	1	-12	14103	0
[	Se	78	78.729	ug/L	0.648	0	9032	43002	1
[	Mo	98	6.686	ug/L	0.075	1	1392	41637	1
	Y	89		ug/L			310463	268752	1
	Kr	83		ug/L			81	75	6
[>	In	115		ug/L			464469	378285	0
[	Ag	107	24.825	ug/L	0.192	0	27	291102	1
[	Cd	111	25.452	ug/L	0.217	0	218	76945	1
[	Cd	114	25.416	ug/L	0.051	0	68	183022	0
[	Sb	121	0.265	ug/L	0.006	2	25	2843	1
[	Sb	123	0.261	ug/L	0.006	2	20	2119	2
[	Ba	135	34.796	ug/L	0.111	0	15	85752	0
[	Ba	137	34.941	ug/L	0.354	1	22	146160	1
[>	Tb	159		ug/L			467702	424924	1
[	Tl	205	22.865	ug/L	0.083	0	34	697056	1
[	Pb	208	23.471	ug/L	0.138	0	244	970643	1
[	Bi	209		ug/L			375879	315487	0
[	Th	232	23.208	ug/L	0.317	1	177	1383711	0
[	U	238	23.535	ug/L	0.074	0	29	1497757	0