MH 4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a004.d
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a004.d
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BETX .25
Client ID:
Injection Date: 16-APR-2011 10:27
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.903	0.000	688	9351	24.3	TFT(Surr)
15.450	0.000	497	4134	23.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	16938	0.045 M
8015B 2MP-TMB	(4.17 to 16.23)	747017	10607	0.014 M
AK101 nC6-nC10	(4.67 to 15.17)	604063	7824	0.013 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	23346	0.058 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	0.002	1526	23.4	TFT(Surr)
15.450	0.000	3047	22.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.053	-0.008	131	0.30N	Benzene
9.947	-0.003	103	0.26N	Toluene
12.850	-0.008	88	0.26N	Ethylbenzene
13.013	-0.012	188	0.51N	M/P-Xylene
13.970	-0.008	65	0.23N	O-Xylene
4.527	-0.004	37	0.22N	MTBE

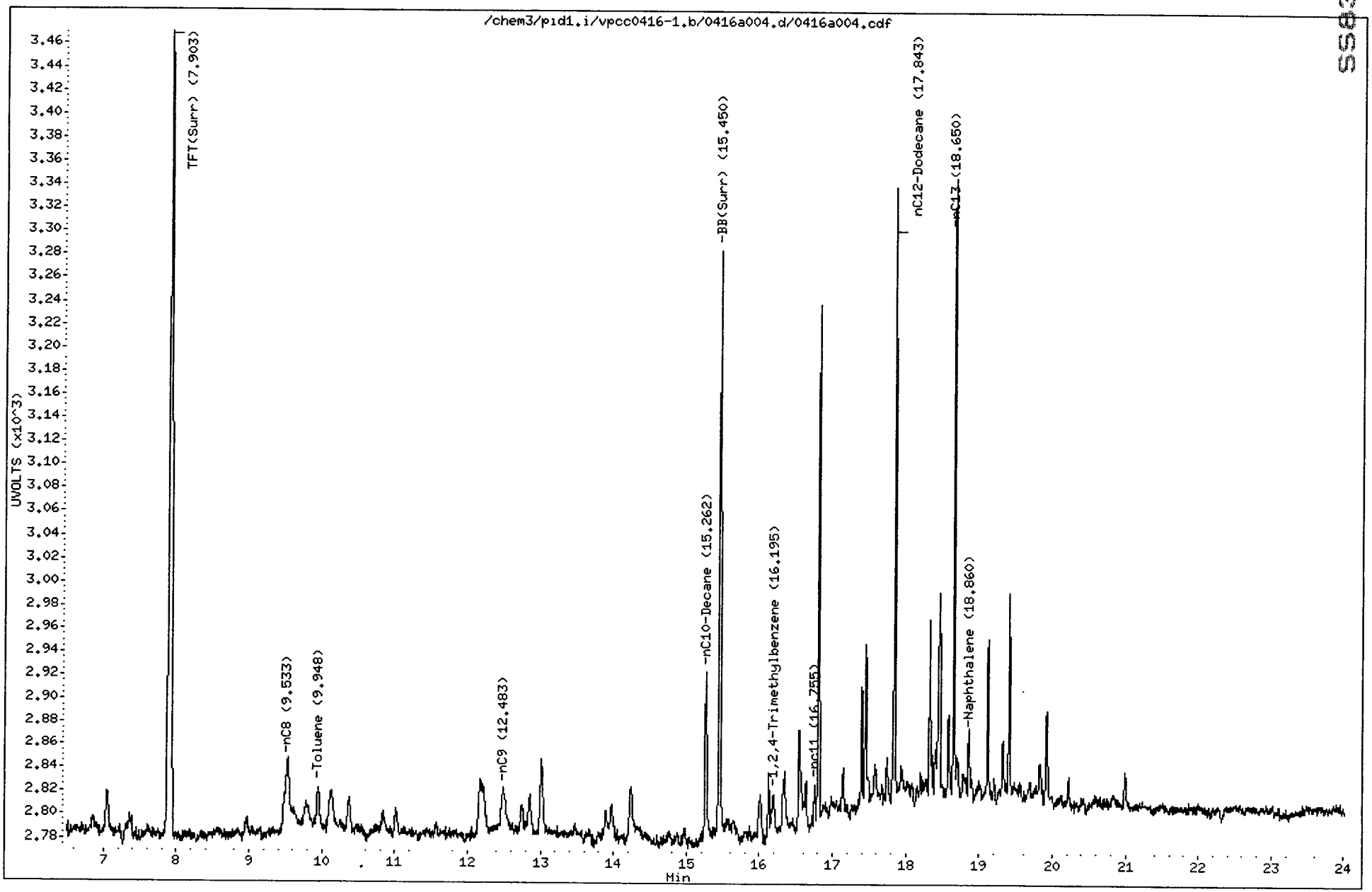
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a004.d
Date : 16-APR-2011 10:27
Client ID:
Sample Info: BETX .25

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18

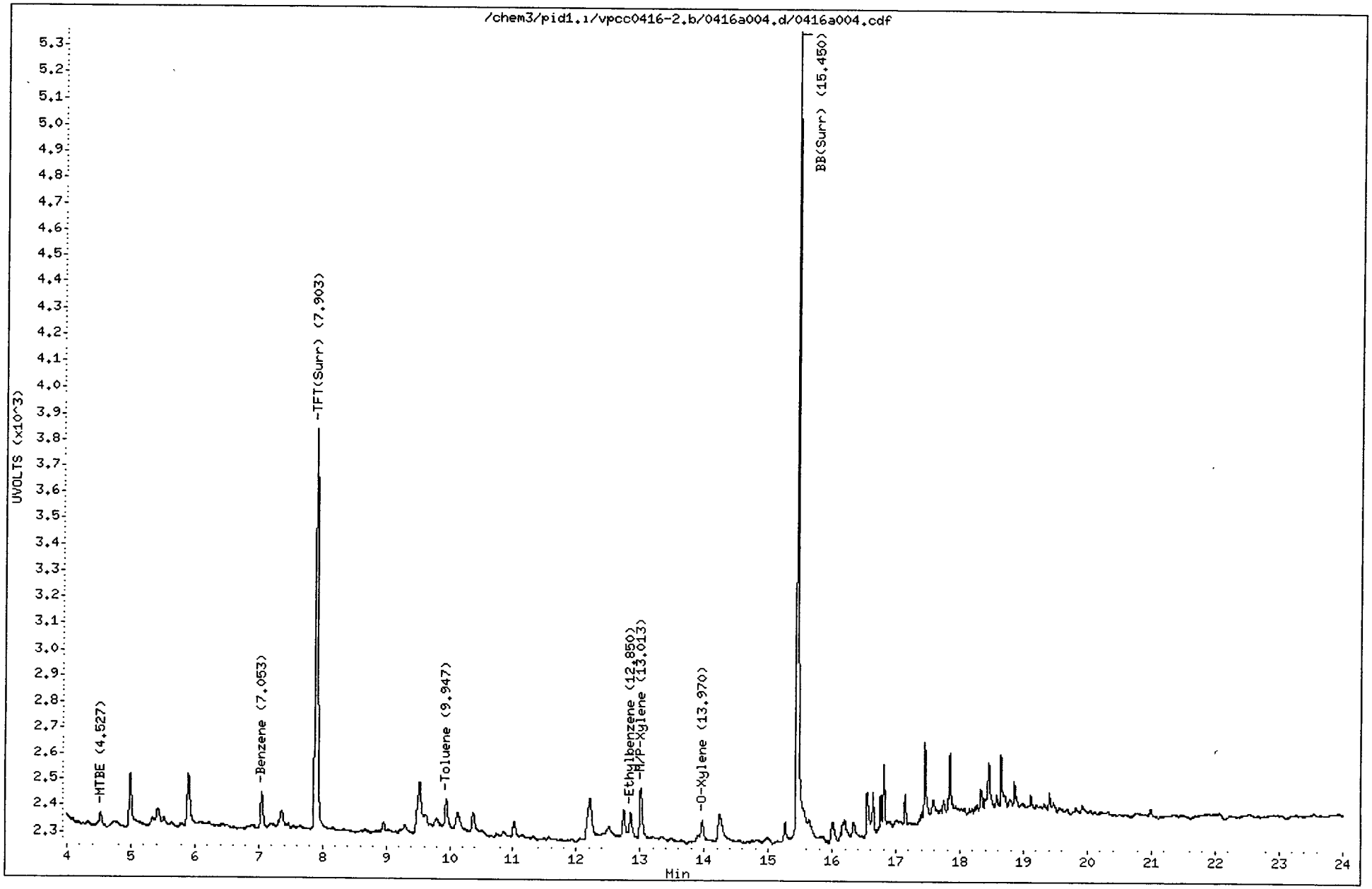


Data File: /chem3/pid1.1/vpcc0416-2.b/0416a004.d
Date : 16-APR-2011 10:27
Client ID:
Sample Info: BETX .25

Column phase: RTX 502-2 PID

Instrument: pid1.1

Operator: MH
Column diameter: 0.18



4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a005.d
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a005.d
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BETX .5
Client ID:
Injection Date: 16-APR-2011 10:56
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.903	0.000	1311	17666	46.3	TFT(Surr)
15.450	0.000	947	7848	45.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	15132	0.040 M
8015B 2MP-TMB	(4.17 to 16.23)	747017	10419	0.014 M
AK101 nC6-nC10	(4.67 to 15.17)	604063	9266	0.015 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	20842	0.052 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	0.002	2946	45.2	TFT(Surr)
15.450	0.000	5945	44.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.050	-0.011	244	0.56N	Benzene
9.947	-0.003	204	0.52N	Toluene
12.850	-0.008	170	0.50	Ethylbenzene
13.012	-0.014	364	0.99	M/P-Xylene
13.967	-0.011	135	0.47N	O-Xylene
4.533	0.003	83	0.49N	MTBE

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

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a005.d
Date : 16-APR-2011 10:56
Client ID:
Sample Info: BETX .5

Column phase: RTX 502-2 FID

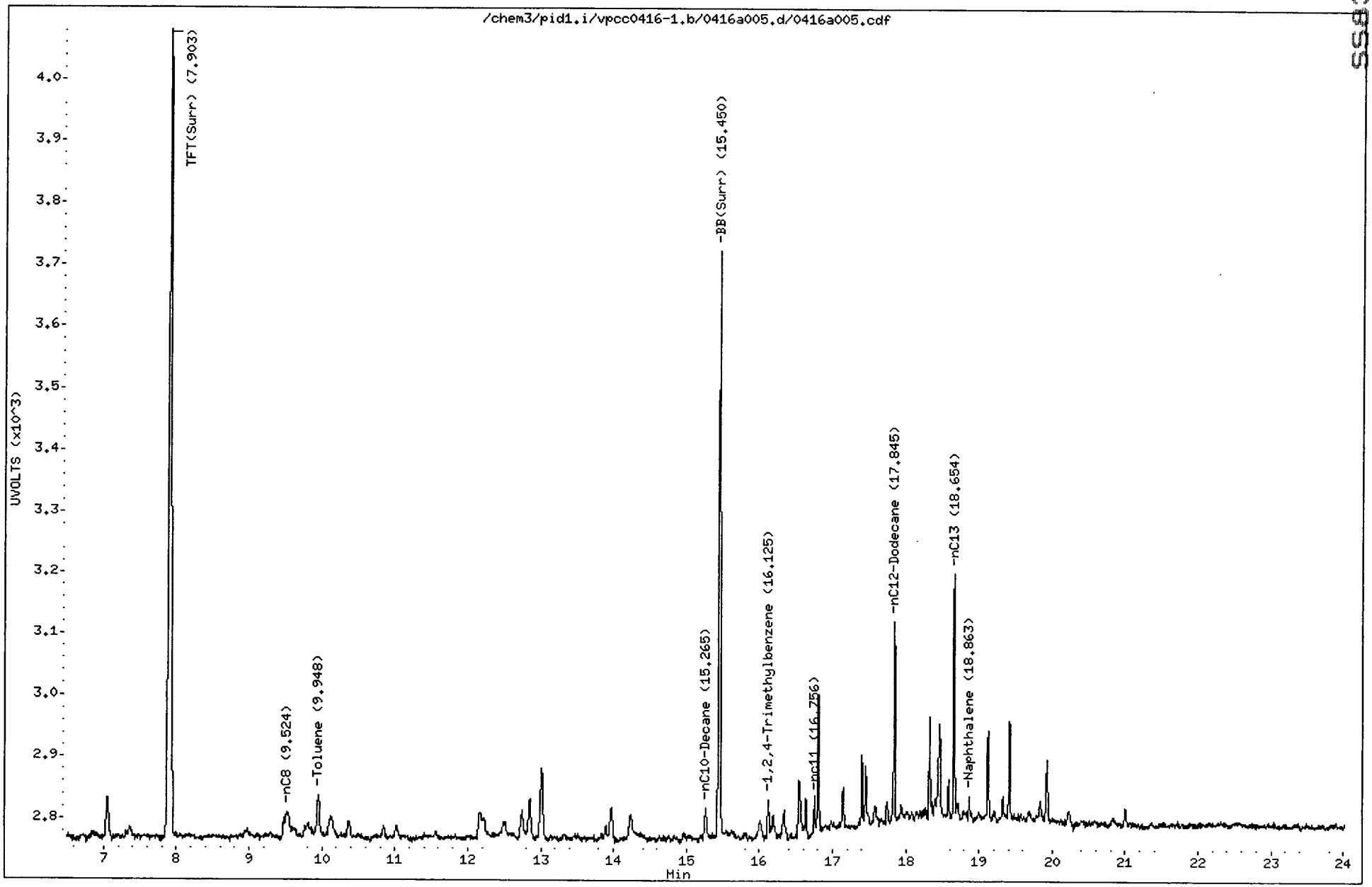
Instrument: pid1.i

Operator: MH
Column diameter: 0.18

1485

SSG3 01482

/chem3/pid1.i/vpcc0416-1.b/0416a005.d/0416a005.cdf



Data File: /chem3/pid1.i/vpcc0416-2.b/0416a005.d
Date : 16-APR-2011 10:56
Client ID:
Sample Info: BETX .5

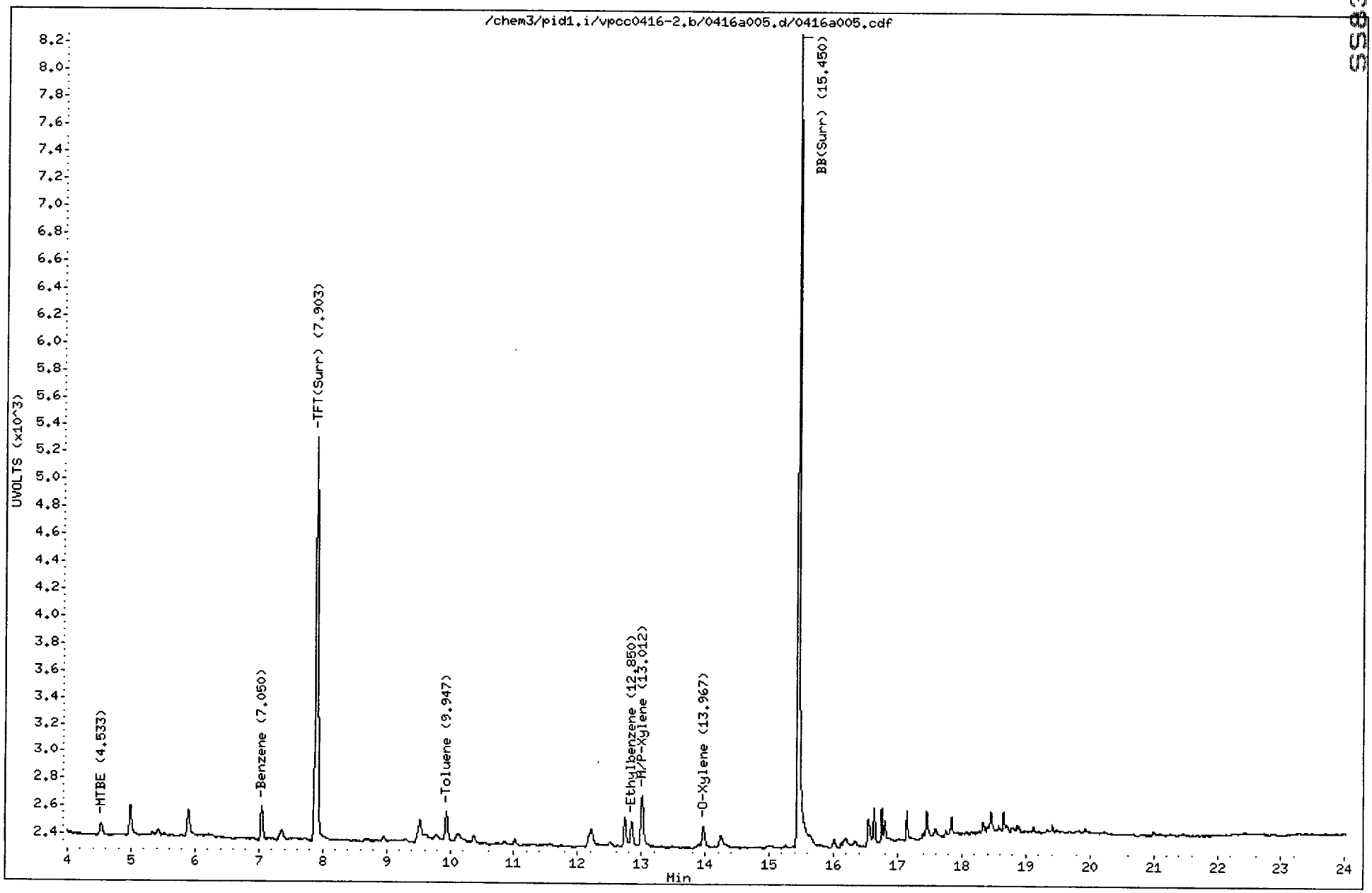
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18

1486

SS88:01183



4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a006.d
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a006.d
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BETX 5
Client ID:
Injection Date: 16-APR-2011 11:26
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.903	0.000	1825	24761	64.5	TFT(Surr)
15.450	0.000	1342	11132	64.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	374773	58606	0.156
8015B 2MP-TMB (4.17 to 16.23)	747017	54443	0.073
AK101 nC6-nC10 (4.67 to 15.17)	604063	49754	0.082
NWTPHG Tol-Nap (9.85 to 18.95)	403422	63476	0.157

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
7.900	-0.002	4155	63.8	TFT(Surr)
15.450	0.000	8542	63.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.050	-0.011	2204	5.03N	Benzene
9.947	-0.003	1890	4.83N	Toluene
12.851	-0.007	1655	4.85	Ethylbenzene
13.011	-0.014	3528	9.61	M/P-Xylene
13.970	-0.007	1418	4.95	O-Xylene
4.530	0.000	861	5.07N	MTBE

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

MH
4/18/11

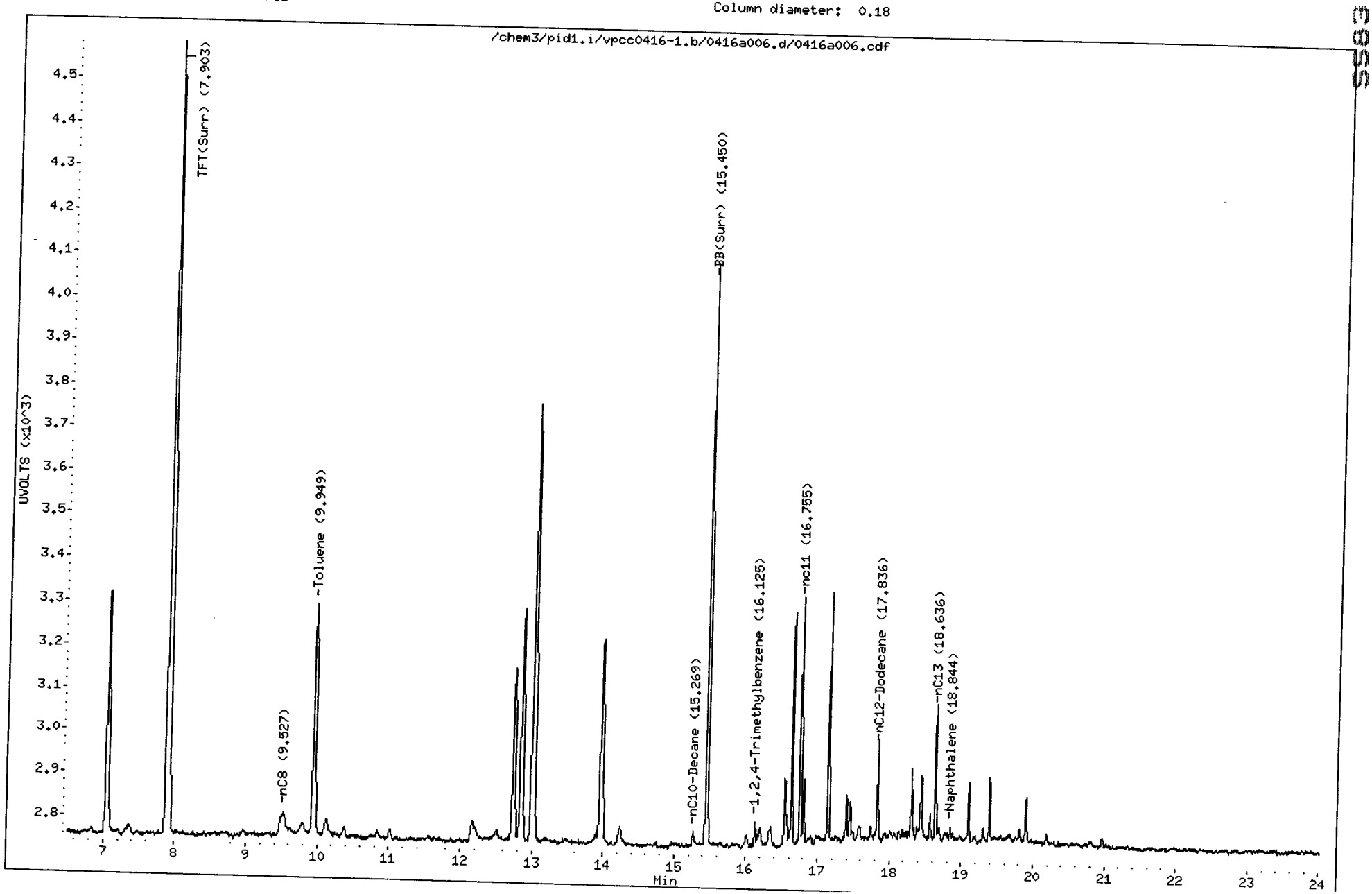
Data File: /chem3/pid1.i/vpcc0416-1.b/0416a006.d
Date : 16-APR-2011 11:26
Client ID:
Sample Info: BETX 5

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18

1488

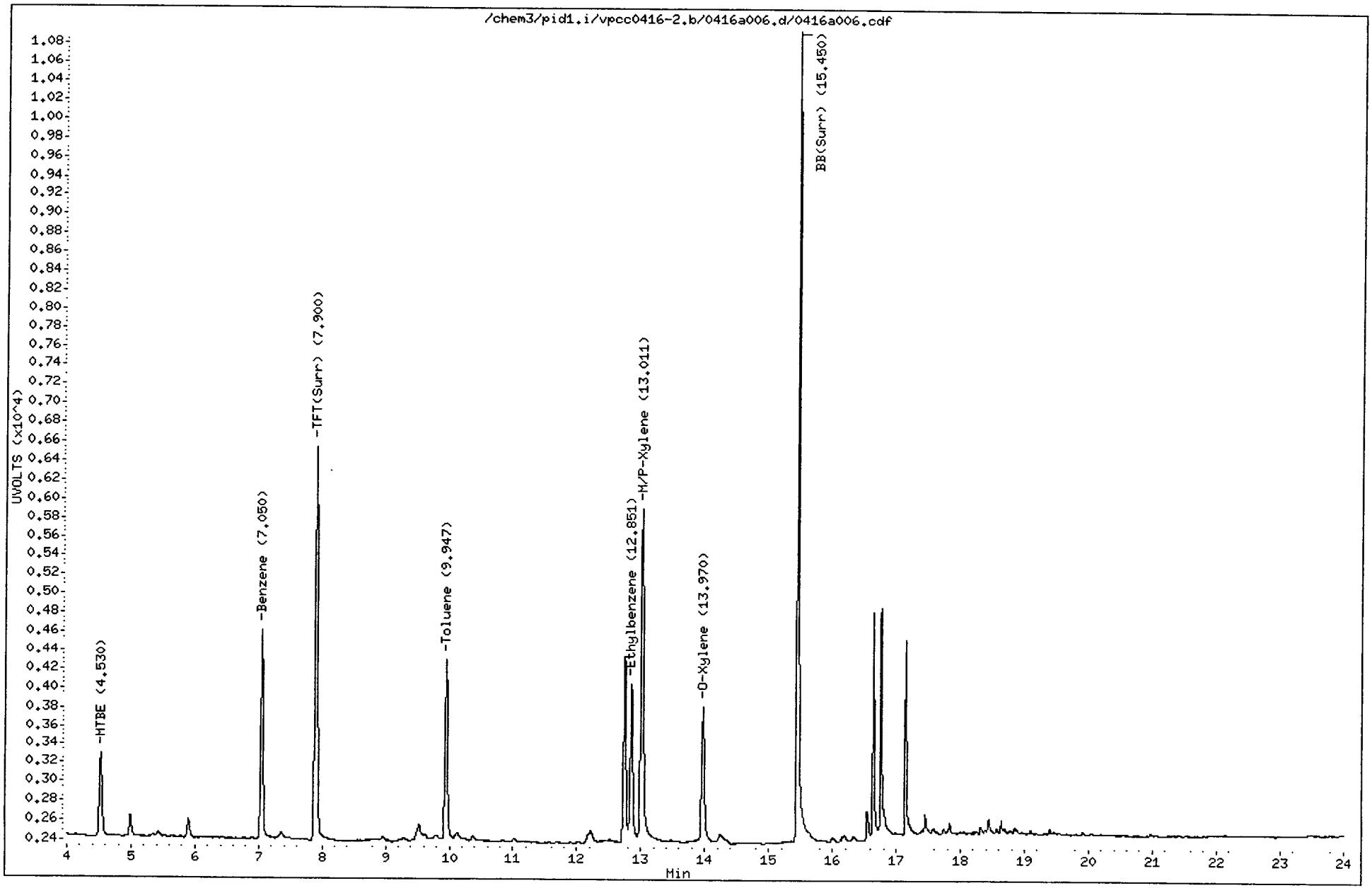


Data File: /chem3/pid1.i/vpcc0416-2.b/0416a006.d
Date : 16-APR-2011 11:26
Client ID:
Sample Info: BETX 5

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18



4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a007.d
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a007.d
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BETX 25
Client ID:
Injection Date: 16-APR-2011 11:55
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.903	0.000	2827	38759	99.9	TFT(Surr)
15.449	-0.001	2100	17338	100.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	253075	0.675
8015B 2MP-TMB	(4.17 to 16.23)	747017	247048	0.331
AK101 nC6-nC10	(4.67 to 15.17)	604063	226561	0.375
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	257190	0.638

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
7.900	-0.002	6469	99.3	TFT(Surr)
15.450	0.000	13448	99.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.053	-0.008	10368	23.65N	Benzene
9.947	-0.003	9730	24.88N	Toluene
12.851	-0.008	8739	25.59	Ethylbenzene
13.012	-0.013	18703	50.93	M/P-Xylene
13.970	-0.008	7502	26.20N	O-Xylene
4.527	-0.004	4461	26.28N	MTBE

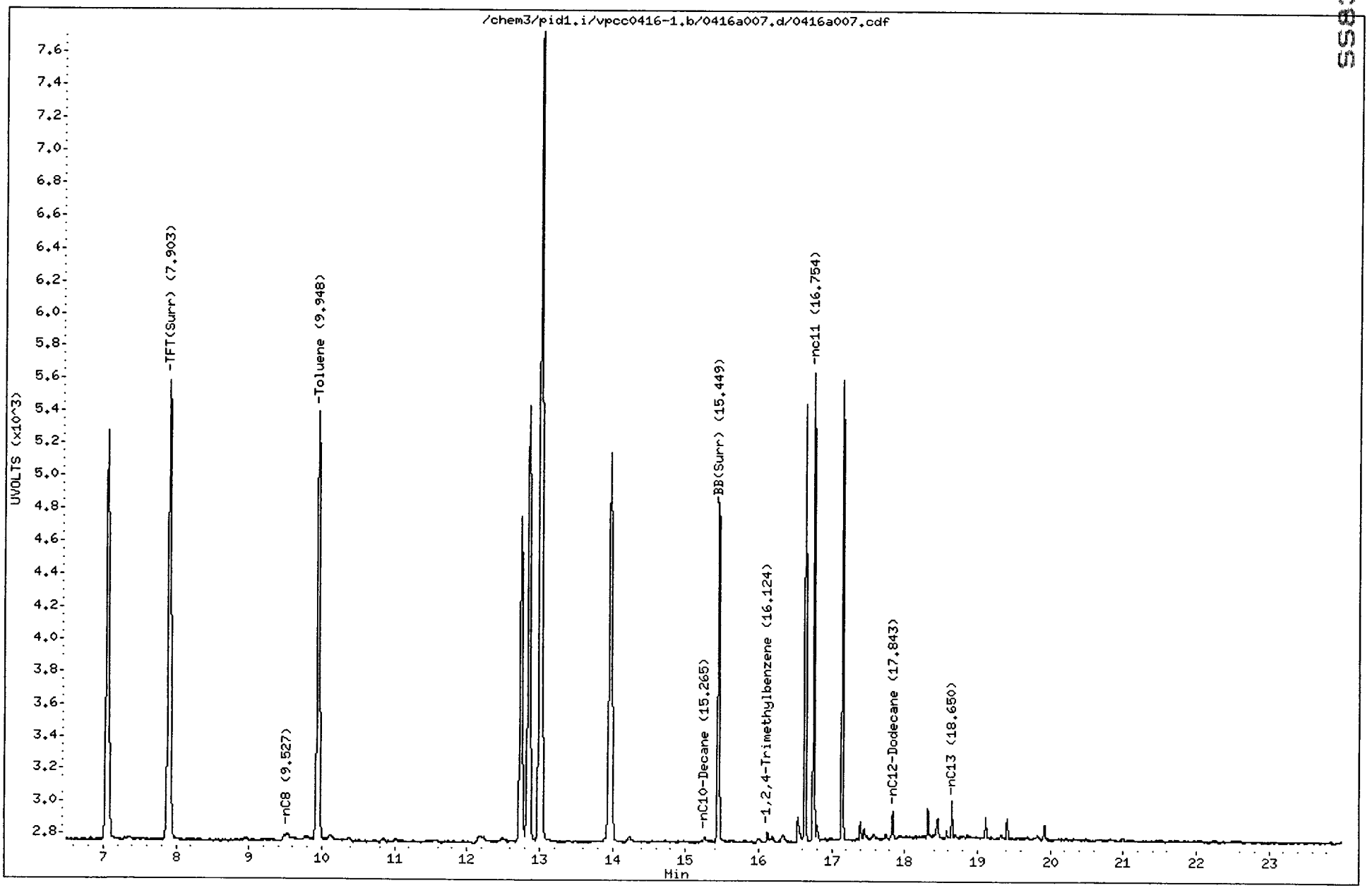
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a007.d
Date : 16-APR-2011 11:55
Client ID:
Sample Info: BETX 25

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18

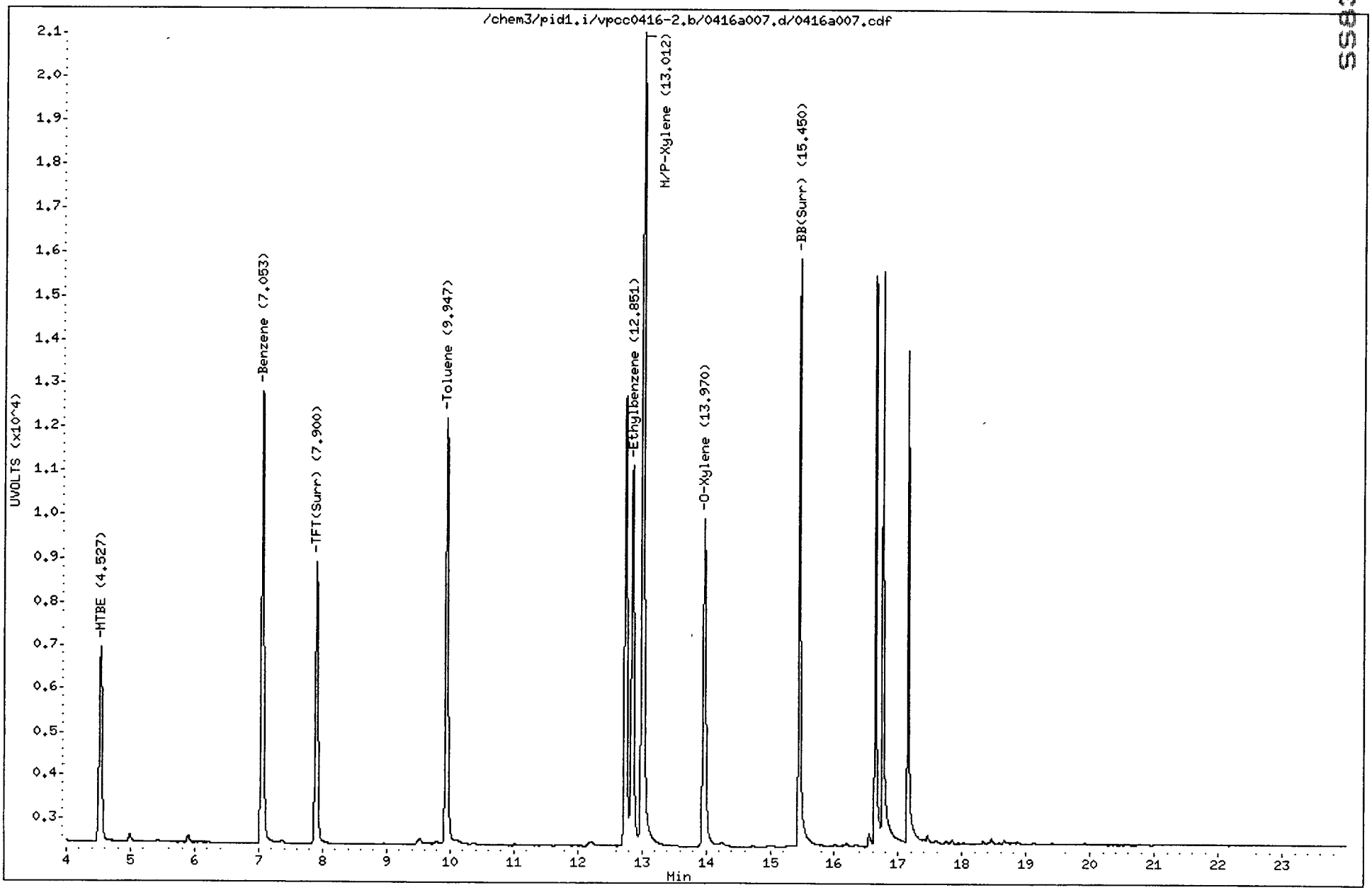


Data File: /chem3/pid1.i/vpcc0416-2.b/0416a007.d
Date : 16-APR-2011 11:55
Client ID:
Sample Info: BETX 25

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18



MH 4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a008.d
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a008.d
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BETX 50
Client ID:
Injection Date: 16-APR-2011 12:24
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.905	0.001	3676	50314	129.9	TFT(Surr)
15.449	-0.001	2720	22778	130.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	473088	1.262
8015B 2MP-TMB	(4.17 to 16.23)	747017	469500	0.628
AK101 nC6-nC10	(4.67 to 15.17)	604063	433539	0.718
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	475864	1.180

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	8635	132.6	TFT(Surr)
15.449	-0.001	18039	133.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.058	-0.003	20297	46.30	Benzene
9.948	-0.002	19342	49.47	Toluene
12.851	-0.007	17231	50.45	Ethylbenzene
13.013	-0.012	37198	101.30	M/P-Xylene
13.970	-0.007	14916	52.09	O-Xylene
4.530	0.000	8842	52.08	MTBE

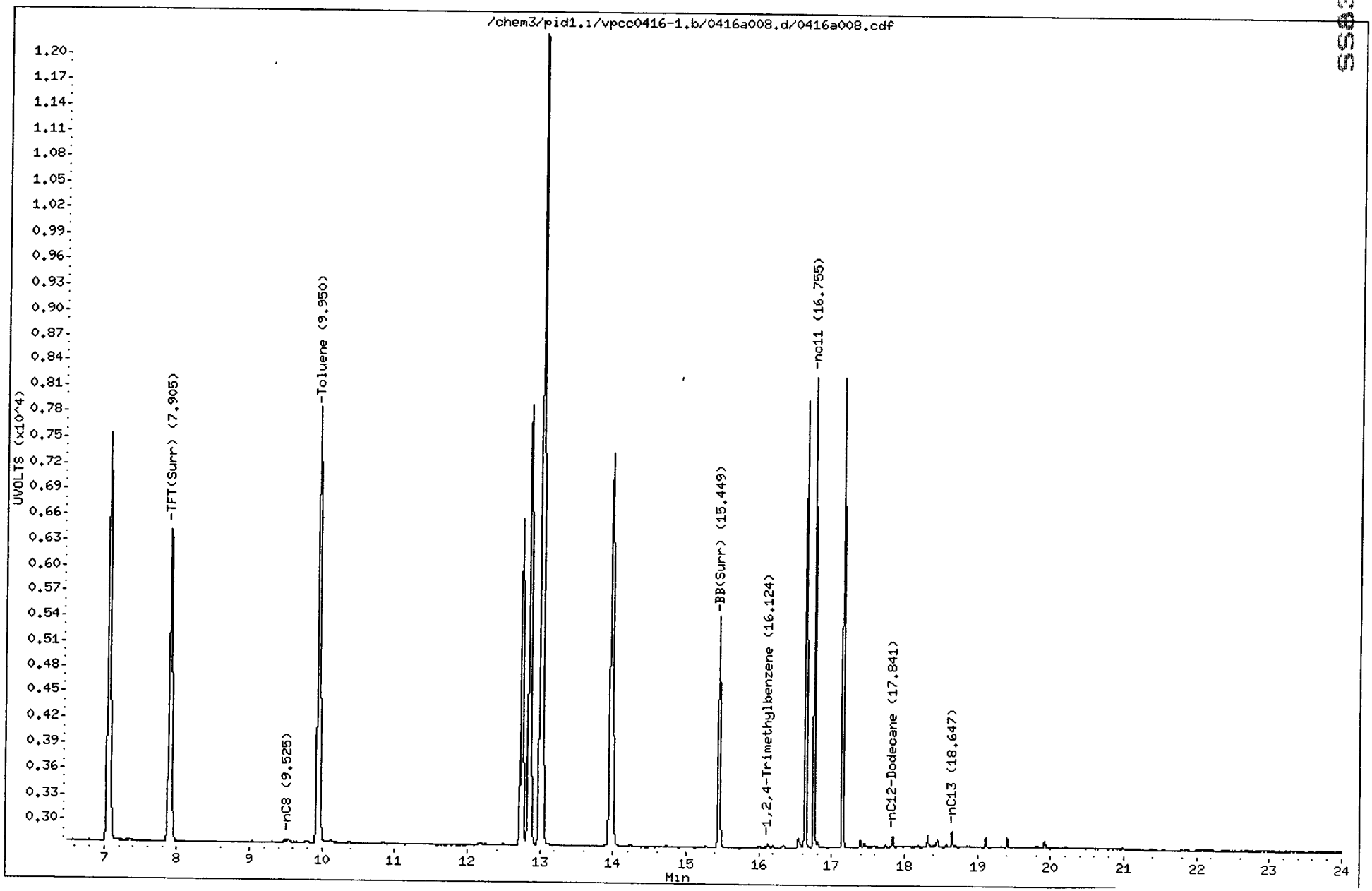
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a008.d
Date : 16-APR-2011 12:24
Client ID:
Sample Info: BETX 50

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18

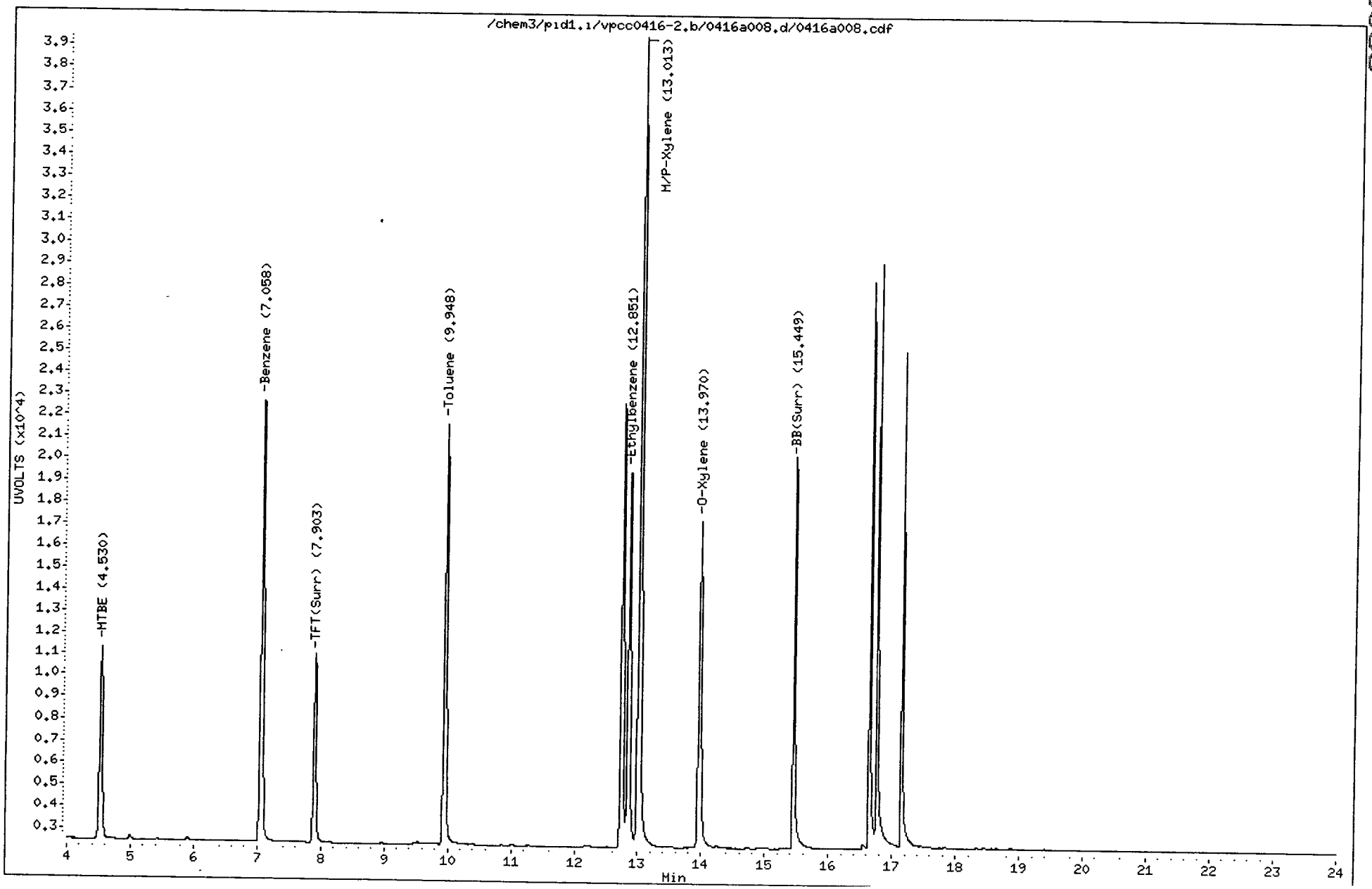


Data File: /chem3/pid1.i/vpcc0416-2.b/0416a008.d
Date : 16-APR-2011 12:24
Client ID:
Sample Info: BETX 50

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18



MH 4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a009.d
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a009.d
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BETX 100
Client ID:
Injection Date: 16-APR-2011 12:53
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.905	0.001	4879	66504	172.5	TFT(Surr)
15.451	0.001	3675	30850	176.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	907784	2.422
8015B 2MP-TMB	(4.17 to 16.23)	747017	902434	1.208
AK101 nC6-nC10	(4.67 to 15.17)	604063	832432	1.378
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	910944	2.258

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	11549	177.3	TFT(Surr)
15.451	0.000	24587	182.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.061	-0.001	39795	90.78	Benzene
9.949	-0.001	38591	98.69	Toluene
12.855	-0.003	33997	99.53	Ethylbenzene
13.019	-0.007	74404	202.61	M/P-Xylene
13.973	-0.004	29669	103.61N	O-Xylene
4.530	0.000	17418	102.60	MTBE

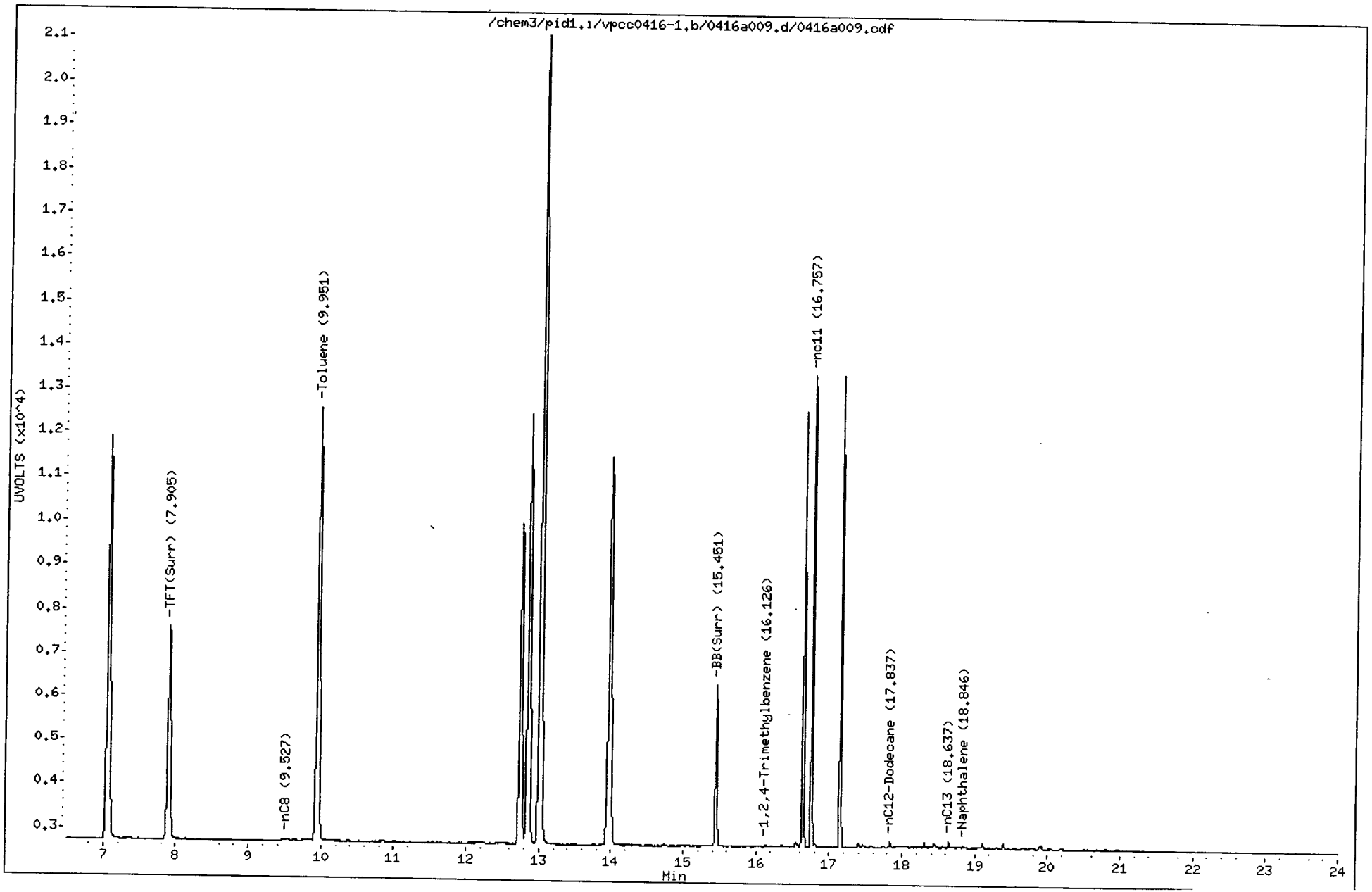
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a009.d
Date : 16-APR-2011 12:53
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/vpcc0416-2.b/0416a009.d

Date : 16-APR-2011 12:53

Client ID:

Sample Info: BETX 100

Column phase: RTX 502-2 PID

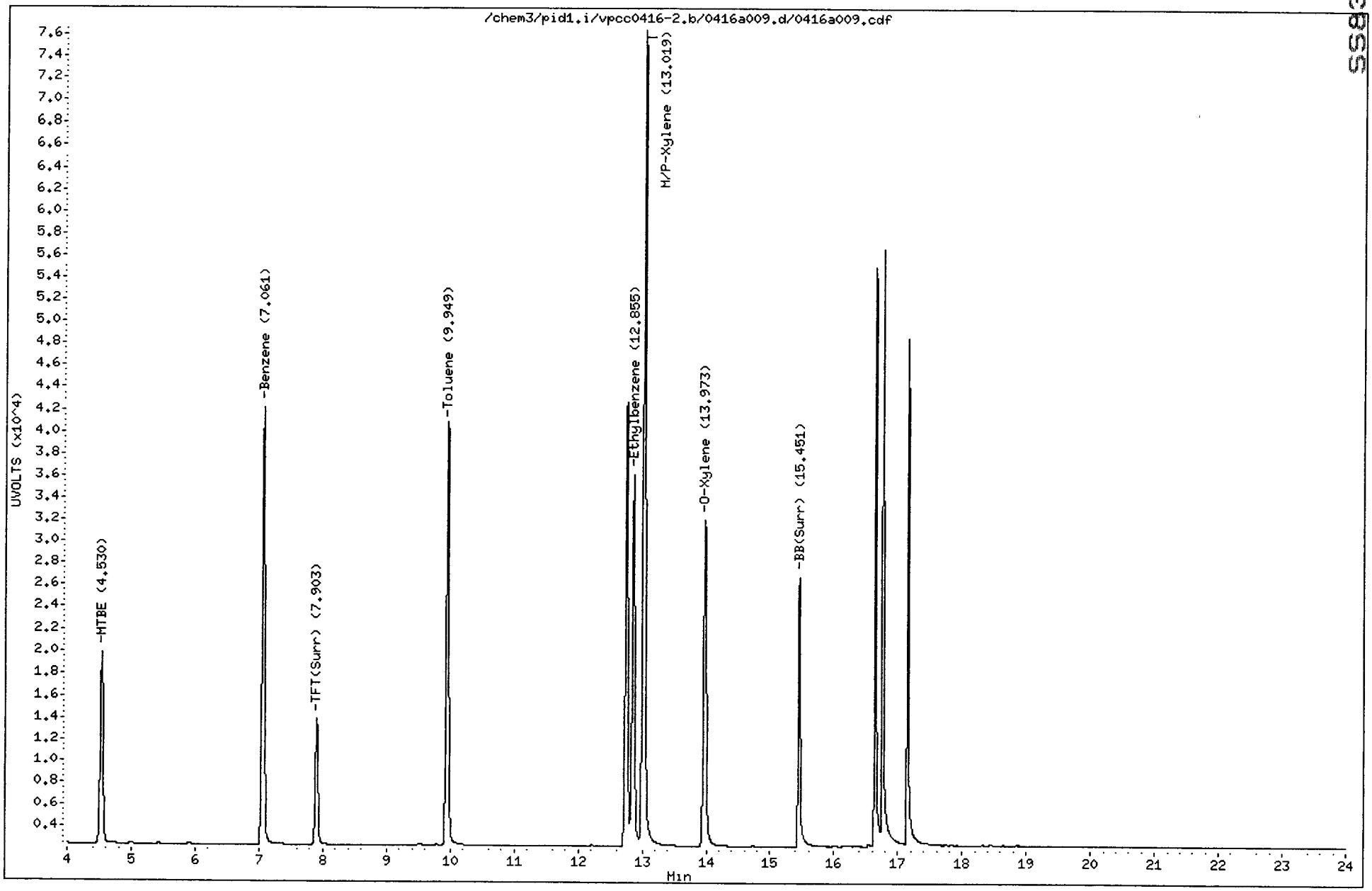
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1498

SS83-01495



Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a010.d
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a010.d
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BETX 200
Client ID:
Injection Date: 16-APR-2011 13:22
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.903	0.000	5281	71709	186.7	TFT(Surr)
15.450	0.000	3949	33007	189.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	1751023	4.672 M
8015B 2MP-TMB	(4.17 to 16.23)	747017	1742510	2.333 M
AK101 nC6-nC10	(4.67 to 15.17)	604063	1607931	2.662 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	1754965	4.350 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
7.902	0.000	12610	193.6	TFT(Surr)
15.450	0.000	26845	199.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.061	0.000	79451	181.24	Benzene
9.950	0.000	75431	192.91N	Toluene
12.858	0.000	66759	195.45	Ethylbenzene
13.025	0.000	143877	391.80	M/P-Xylene
13.978	0.000	59171	206.63	O-Xylene
4.530	0.000	34540	203.46	MTBE

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

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a010.d

Date : 16-APR-2011 13:22

Client ID:

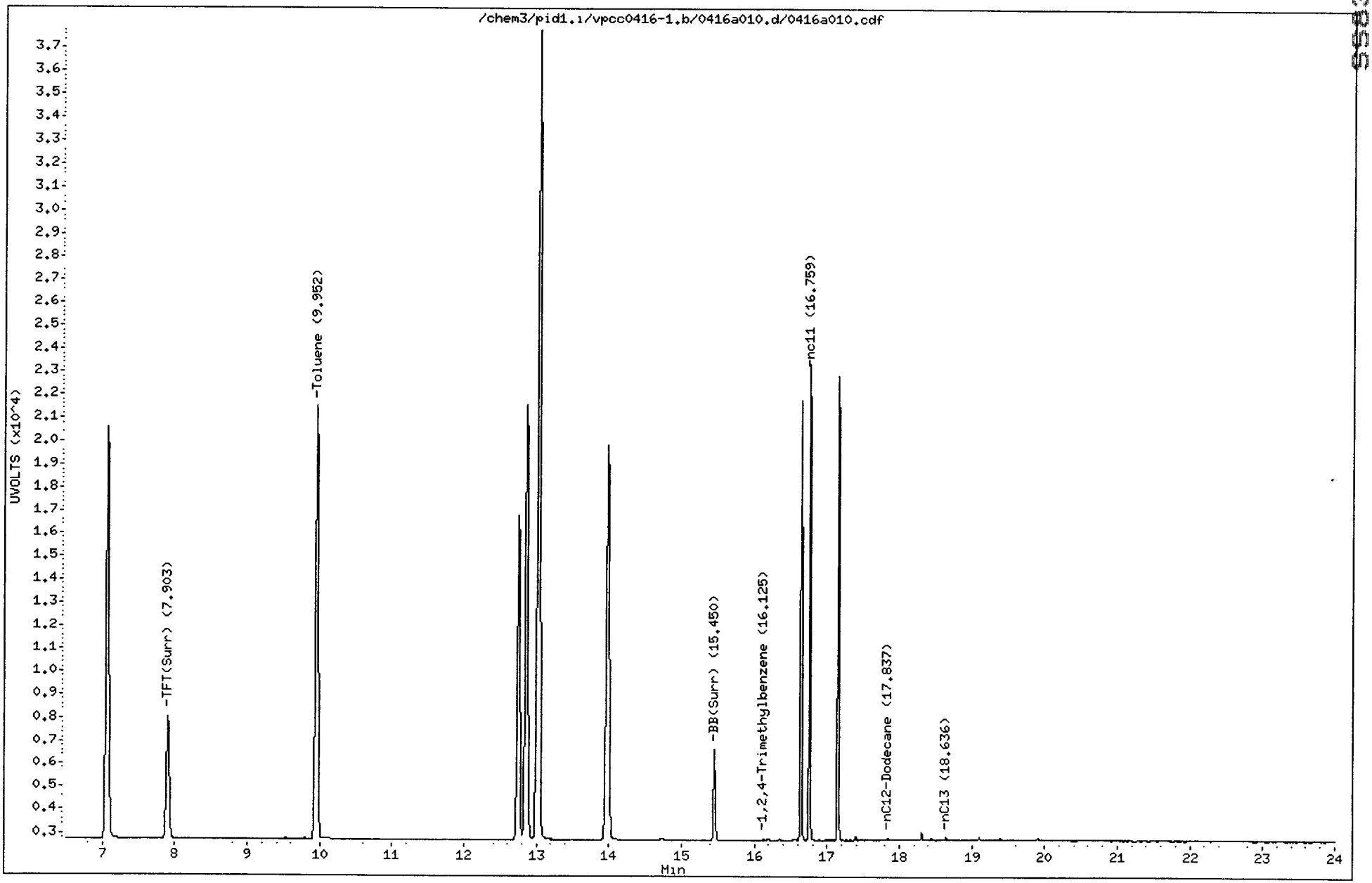
Sample Info: BETX 200

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0416-2.b/0416a010.d

Date : 16-APR-2011 13:22

Client ID:

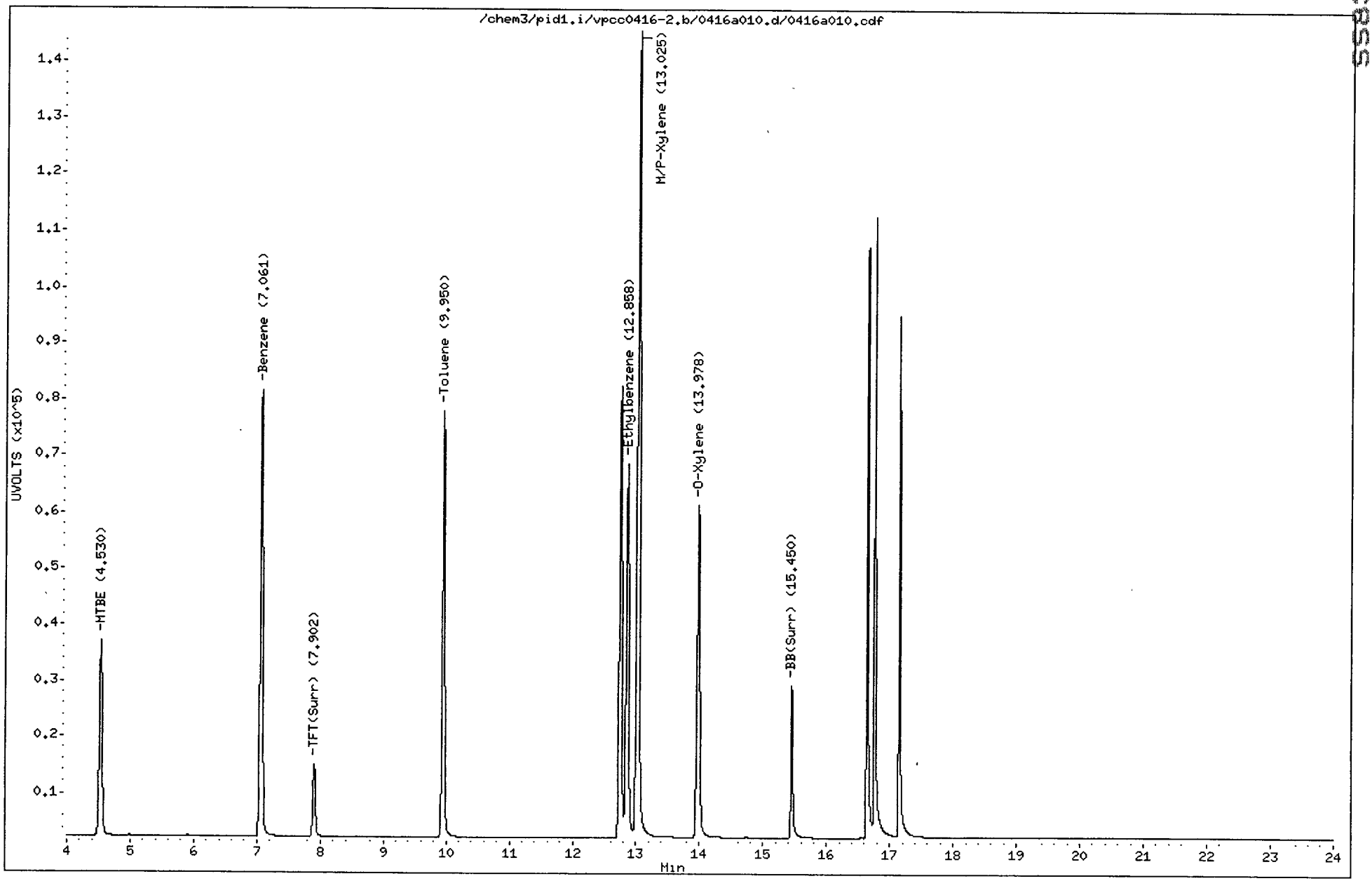
Sample Info: BETX 200

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



MH 4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a011.d
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a011.d
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BETX ICV
Client ID:
Injection Date: 16-APR-2011 13:52
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.903	0.000	2782	38131	98.3	TFT(Surr)
15.450	0.000	2065	17204	99.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	251158	0.670
8015B 2MP-TMB	(4.17 to 16.23)	747017	247104	0.331
AK101 nC6-nC10	(4.67 to 15.17)	604063	228011	0.377
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	253630	0.629

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	0.001	6397	98.2	TFT(Surr)
15.451	0.001	13527	100.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.053	-0.008	10805	24.65	Benzene
9.948	-0.002	9895	25.31	Toluene
12.853	-0.006	8895	26.04	Ethylbenzene
13.014	-0.012	19031	51.82	M/P-Xylene
13.972	-0.005	7643	26.69	O-Xylene
4.529	-0.001	4606	27.13	MTBE

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

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a011.d

Date : 16-APR-2011 13:52

Client ID:

Sample Info: BETX ICV

Column phase: RTX 502-2 FID

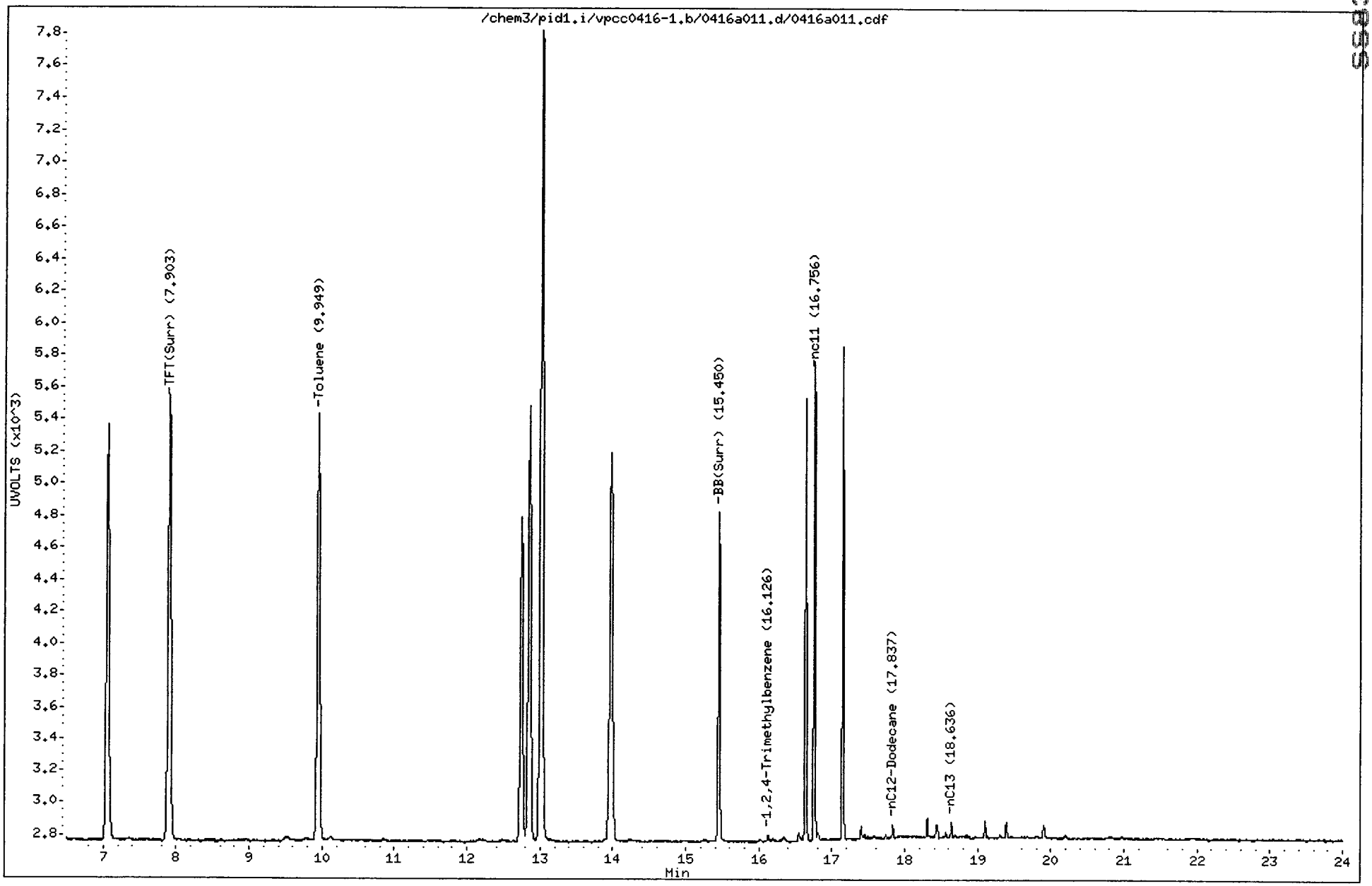
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1503

SSB3:01509



Data File: /chem3/pid1.i/vpcc0416-2.b/0416a011.d

Date : 16-APR-2011 13:52

Client ID:

Sample Info: BETX ICV

Column phase: RTX 502-2 PID

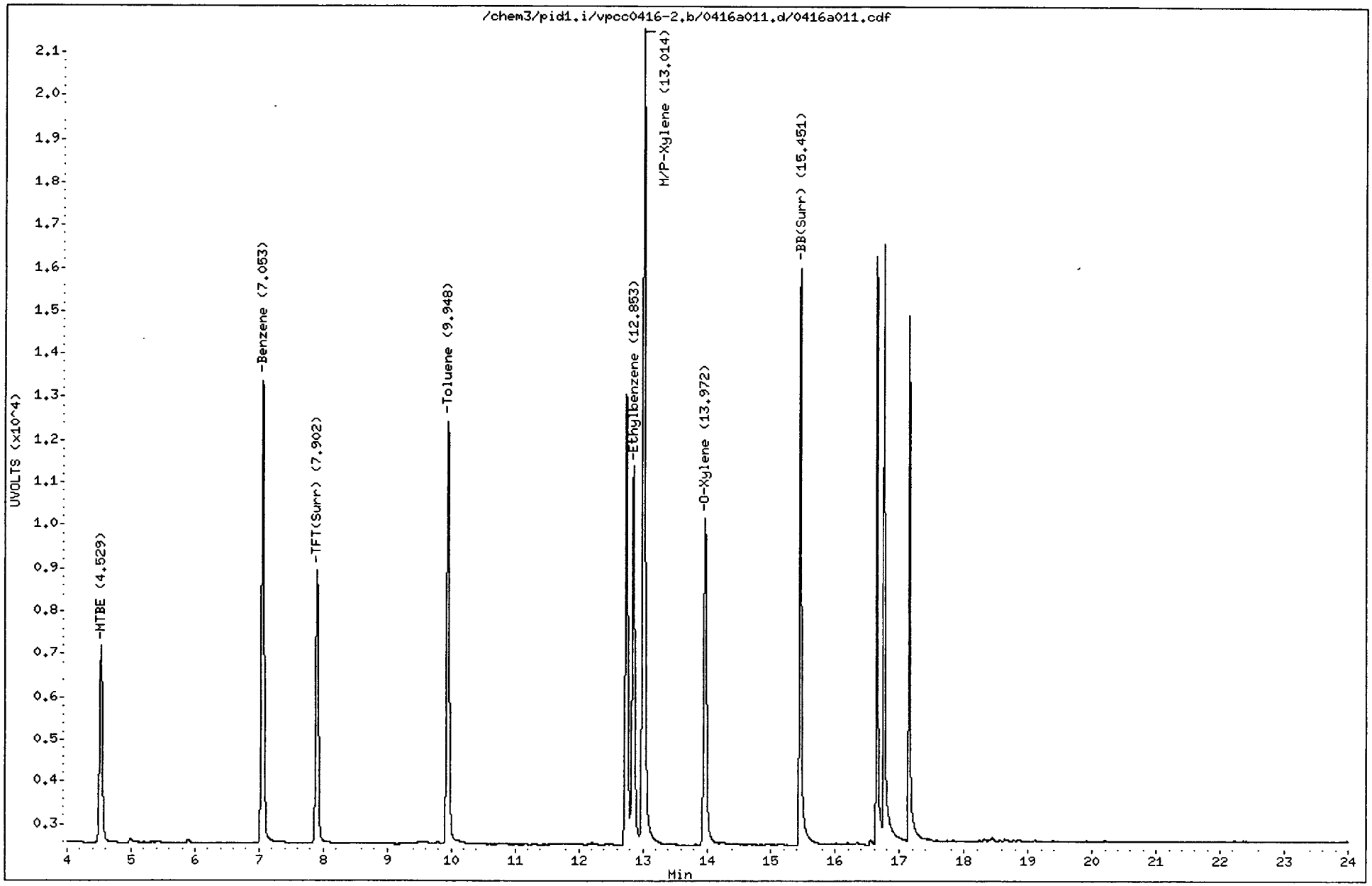
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1504

SS83-01501



Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Batch File: /chem3/pid1.i/vpcc0416-2.b
Inst ID: pid1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0416a004	0416a005	0416a006	0416a007	0416a008	0416a009	0416a010
INJ.DATE:	16-APR-2011	16-APR-2011	16-APR-2011	16-APR-2011	16-APR-2011	16-APR-2011	16-APR-2011
INJ.TIME:	10:27	10:56	11:26	11:55	12:24	12:53	13:22

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 MTBE	4.527	4.533	4.530	4.527	4.530	4.530	4.530	4.527	4.477-4.577	4.530	0.002
	2 Benzene	7.053	7.050	7.050	7.053	7.058	7.061	7.061	7.053	7.003-7.103	7.055	0.005
$	3 TFT(Surr)	7.903	7.903	7.900	7.900	7.903	7.903	7.902	7.903	7.853-7.953	7.902	0.001
	4 Toluene	9.947	9.947	9.947	9.947	9.948	9.949	9.950	9.947	9.897-9.997	9.948	0.001
	15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.068	13.018-13.118	+++++	+++++
	5 Ethylbenzene	12.850	12.850	12.851	12.851	12.851	12.855	12.858	12.850	12.800-12.900	12.852	0.003
	6 M/P-Xylene	13.013	13.012	13.011	13.012	13.013	13.019	13.025	13.013	12.963-13.063	13.015	0.005
	7 O-Xylene	13.970	13.967	13.970	13.970	13.970	13.973	13.978	13.970	13.940-14.000	13.971	0.003
$	19 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.006	15.976-16.036	+++++	+++++
$	8 BB(Surr)	15.450	15.450	15.450	15.450	15.449	15 451	15.450	15.450	15.400-15.500	15.450	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: 4/18/11
Reviewer 2 Date: 4/18/11

SSC3.015502 1505

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0416-1.b/FID.m
Batch File: /chem3/pid1.i/vpcc0416-1.b
Inst ID: pid1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0416a004	0416a005	0416a006	0416a007	0416a008	0416a009	0416a010
INJ.DATE:	16-APR-2011	16-APR-2011	16-APR-2011	16-APR-2011	16-APR-2011	16-APR-2011	16-APR-2011
INJ.TIME:	10.27	10:56	11:26	11:55	12:24	12:53	13:22

	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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.269	4.199-4.339	+++++	+++++
	2 nC6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.770	4.700-4.840	+++++	+++++
	3 nC7	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.856	6.786-6.926	+++++	+++++
$	4 TFT(Surr)	7.903	7.903	7.903	7.903	7.905	7.905	7.903	7.903	7.833-7.973	7.904	0.001
	5 nC8	9.533	9 524	9.527	9.527	9.525	9.527	+++++	9.533	9.463-9.603	9.527	0.003
	6 Toluene	9.948	9.948	9.949	9.948	9.950	9.951	9.952	9.948	9.878-10.018	9.949	0.002
	7 nC9	12.483	+++++	+++++	+++++	+++++	+++++	+++++	12.483	12.413-12.553	12.483	0.000
$	22 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.027	15.957-16.097	+++++	+++++
	8 nC10-Decane	15.262	15.265	15.269	15.265	+++++	+++++	+++++	15.262	15.192-15.332	15.265	0.003
$	9 BB(Surr)	15.450	15.450	15.450	15.449	15.449	15.451	15.450	15.450	15.380-15.520	15.450	0.001
	10 1,2,4-Trimethylbenzene	16.195	16.125	16.125	16.124	16.124	16.126	16.125	16.195	16.125-16.265	16.135	0.027
	11 nc11	16.755	16.756	16.755	16.754	16.755	16.757	16.759	16.755	16.685-16.825	16.756	0.002
	12 nC12-Dodecane	17.843	17.845	17.836	17.843	17.841	17.837	17.837	17.843	17.773-17.913	17.840	0.003

Reviewer 1 MH Date: 4/18/11
Reviewer 2 _____ Date: 4/18/11

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

ARI Job ID: SS83

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: SS83 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: 4/16/11 Analysis Start Date: 4/21/11

pH ≤ 2.0 P, Q (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):

Sample A doble surr.

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 4/25/11

Reviewer: _____ **Date:** _____

Analytical Resources Inc.: Organics Instrument Log

PID-1 Serial No.: 2750A-17141

Date: 4/21/11 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: 4/16/11

IS/SS	Ical/Ccal	LCS/ICV
VW683-2	VW666-1	VW681-3
	VW680-3	
	VW681-3	

	Time	Filename	LabID	ClientID	Vial#	pH	DF
1	0532	0421a001.d	RINSE				1
2	0601	0421a002.d	RT+BCAL 1				1
3	0631	0421a003.d	GCAL 1				1
4	0700	0421a004 d	LCS0421				1
5	0729	0421a005.d	LCSD0421				1
6	0758	0421a006.d	MB0421				1
7	0844	0421a007.d	SS83Q	TP-TB-042011			1
8	0913	0421a008 d	SS83P	DMA-RB-042011			1
9	0942	0421a009 d	SS83A	DMA-TP1-0-3-041911		0.00	
10	1011	0421a010.d	SS83B	DMA-TP1-3-4 5-04191		0 00	
11	1040	0421a011 d	SS83C	DMA-TP1-4 5-5 5-041		0 00	
12	1110	0421a012 d	SS83D	DMA-TP2-1 5-3-04191		0.00	
13	1139	0421a013.d	RINSE				1
14	1208	0421a014 d	BCAL 2				1
15	1237	0421a015 d	GCAL 2				1
16	1306	0421a016 d	SS83E	DMA-TP2-3-4-041911		0 00	
17	1336	0421a017.d	SS83F	DMA-TP6-0-2 5-04191		0 00	
18	1405	0421a018 d	SS83G	DMA-TP6-2 5-5-04191		0 00	
19	1434	0421a019 d	SS83H	DMA-TP4-0-1 5-04201		0 00	
20	1503	0421a020 d	SS83I	DMA-TP4-1.5-2-04201		0 00	
21	1532	0421a021 d	SS83J	DMA-TP5-1.5-2-04201		0 00	
22	1602	0421a022 d	SS83K	DMA-TP5-1 5-2-04201		0 00	
23	1631	0421a023 d	SS83L	DMA-TP5-2-3-042011		0 00	
24	1700	0421a024 d	SS83M	DMA-TP3-2-3-042011		0 00	
25	1729	0421a025.d	RINSE				1
26	1758	0421a026.d	BCAL 3				1
27	1827	0421a027 d	GCAL 3				1
28	1857	0421a028 d	SS83N	DMA-TP3-3-4-042011		0 00	
29	1926	0421a029 d	SS83O	DMA-TP3-5-6-042011		0 00	
30	1955	0421a030.d	SS83MS	DMA-TP3-5-6-042 MS		1	
31	2024	0421a031 d	SS83OMSD	DMA-TP3-5-6-042 MSD		0 00	
32	2053	0421a032 d	RINSE				1
33	2122	0421a033.d	BCAL 4				1
34	2152	0421a034 d	GCAL 4				1

MH 4/22

MH 4/22/11

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 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a002.d Client ID:
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m Injection Date: 21-APR-2011 06:01
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.902	0.000	2751	37256	97.2	TFT(Surr)
15.450	0.000	1993	16474	95.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	472568	1.261
8015B 2MP-TMB	(4.16 to 16.26)	747017	549548	0.736
AK101 nC6-nC10	(4.66 to 15.16)	604063	383358	0.635
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	530214	1.314

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
7.900	0.000	6186	95.0	TFT(Surr)
15.450	0.000	12661	93.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.055	0.000	9492	21.65	Benzene
9.946	0.000	8952	22.89	Toluene
12.851	0.000	8016	23.47	Ethylbenzene
13.013	0.000	17228	46.91	M/P-Xylene
13.971	0.000	6848	23.91	O-Xylene
4.530	0.000	3881	22.86	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a002.d

Date : 21-APR-2011 06:01

Client ID:

Sample Info: RT+BCAL 1

Column phase: RTX 502-2 FID

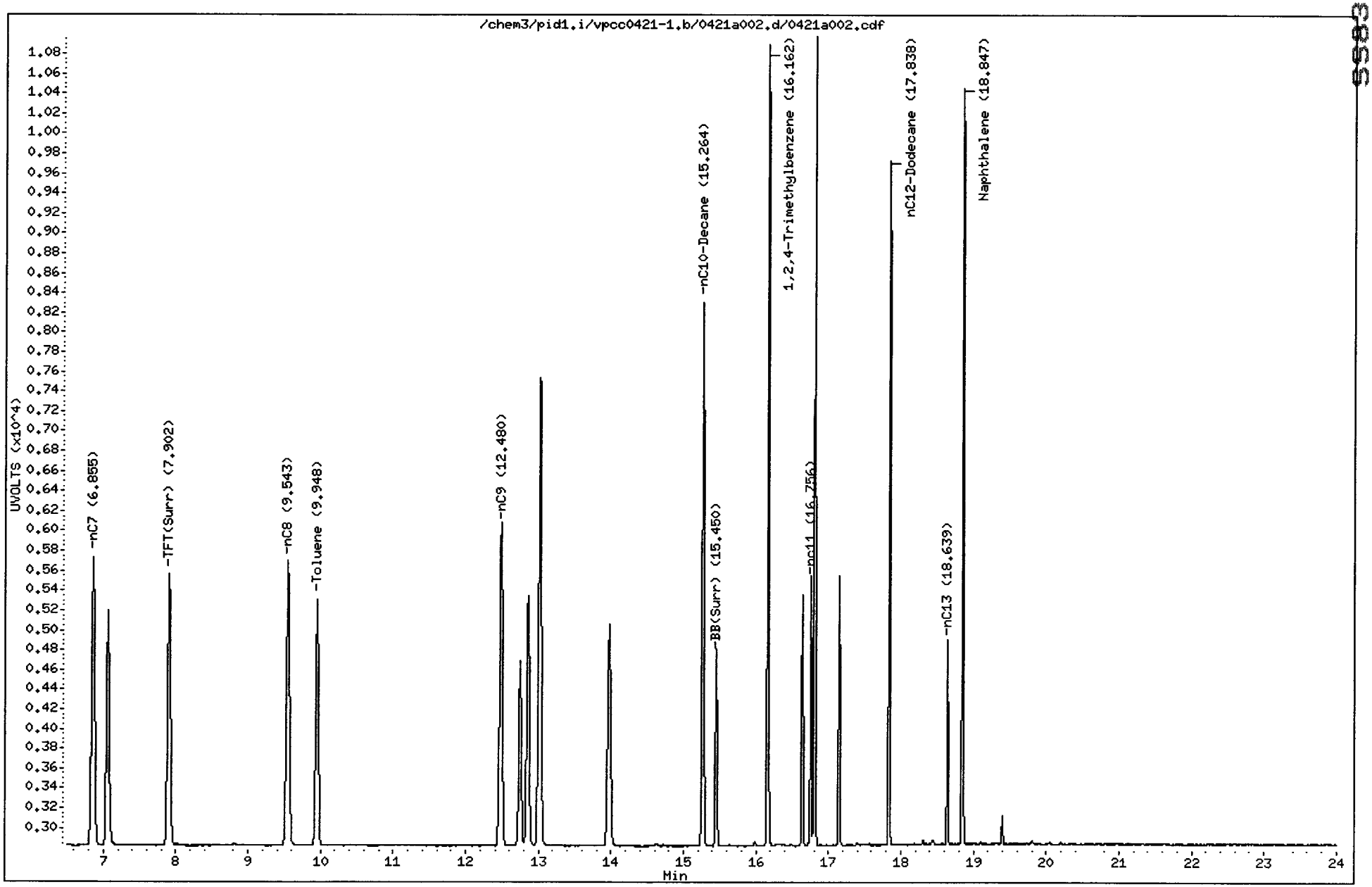
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1511

5583 : 01508



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a002.d

Date : 21-APR-2011 06:01

Client ID:

Sample Info: RT+BCAL 1

Column phase: RTX 502-2 PID

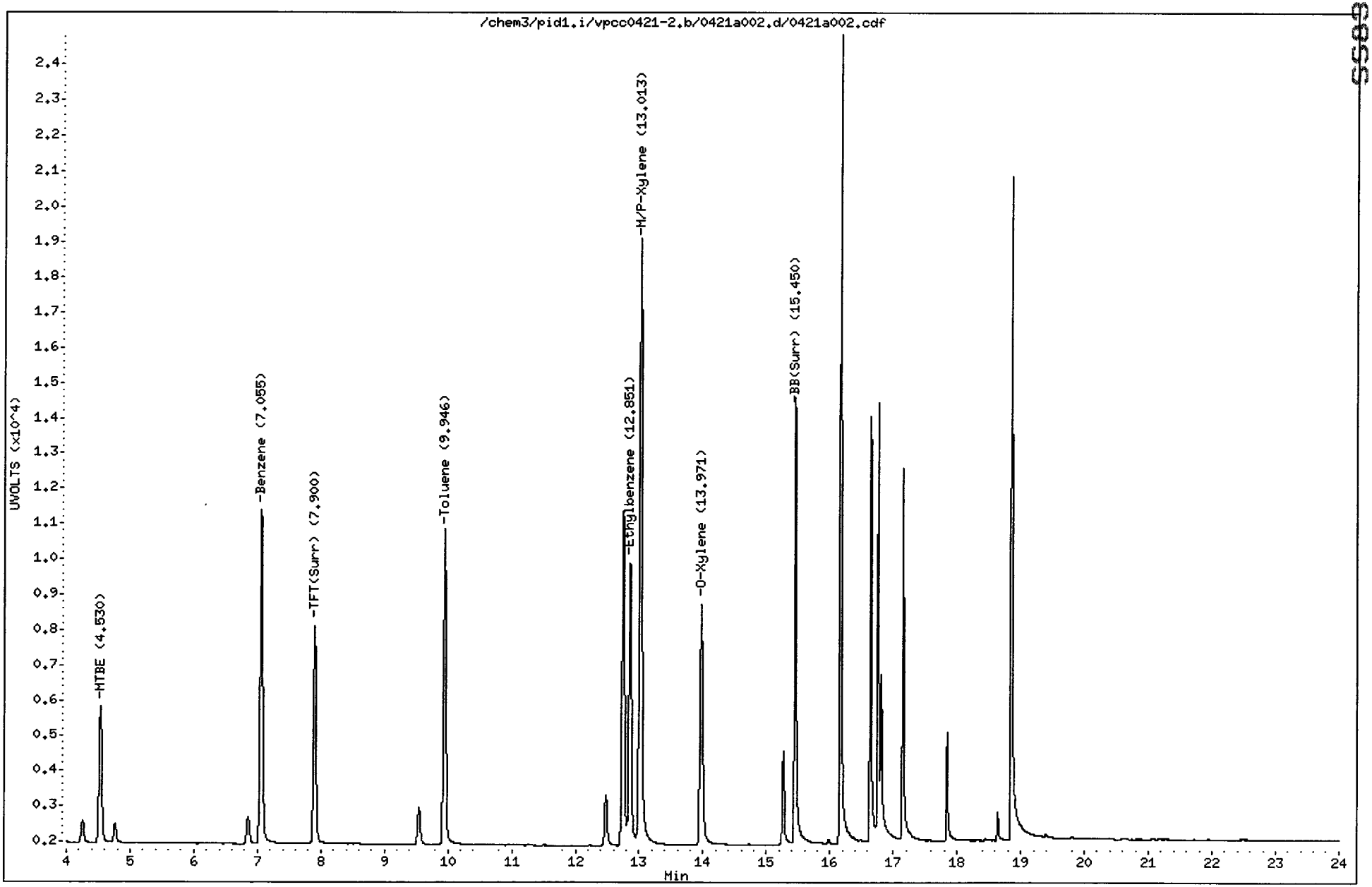
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1512

S583:01599



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a003.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a003.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: GCAL 1
Client ID:
Injection Date: 21-APR-2011 06:31
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.002	3111	54339	110.0	TFT(Surr)
15.449	0.000	2048	19166	98.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	930364	2.482 M
8015B 2MP-TMB	(4.16 to 16.26)	747017	1897894	2.541 M
AK101 nC6-nC10	(4.66 to 15.16)	604063	1523549	2.522 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	988508	2.450 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
7.899	-0.001	6585	101.1	TFT(Surr)
15.449	0.000	13105	97.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.059	0.004	3423	7.81	Benzene
9.946	0.000	35892	91.79	Toluene
12.850	-0.001	9035	26.45	Ethylbenzene
13.016	0.003	36186	98.54	M/P-Xylene
13.971	0.000	12856	44.89	O-Xylene
4.530	0.000	751	4.42	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a003.d

Date : 21-APR-2011 06:31

Client ID:

Sample Info: GCAL 1

Column phase: RTX 502-2 FID

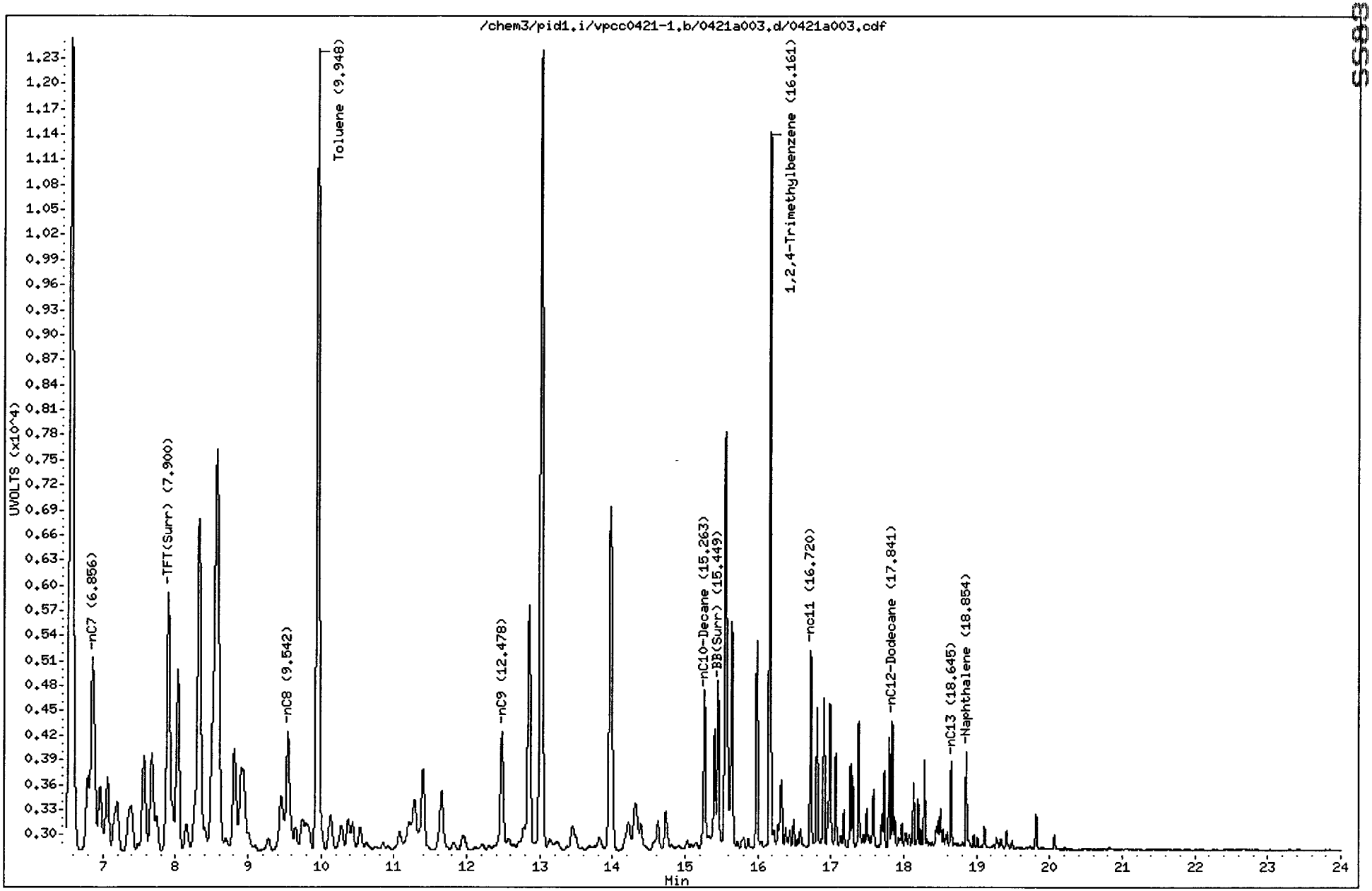
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1514

SSB : 01511



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a003.d

Date : 21-APR-2011 06:31

Client ID:

Sample Info: GCAL 1

Column phase: RTX 502-2 PID

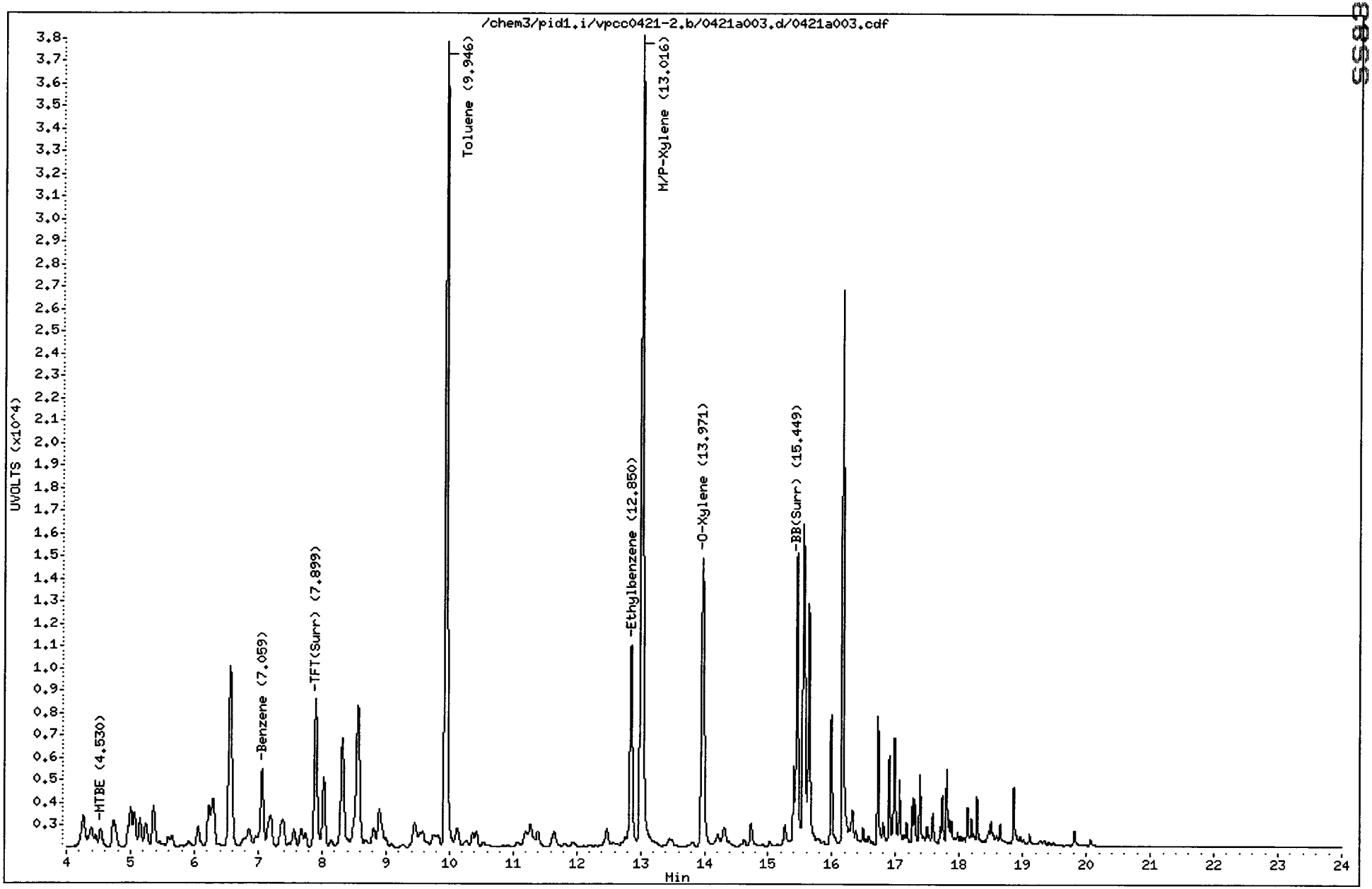
Instrument: pid1.i

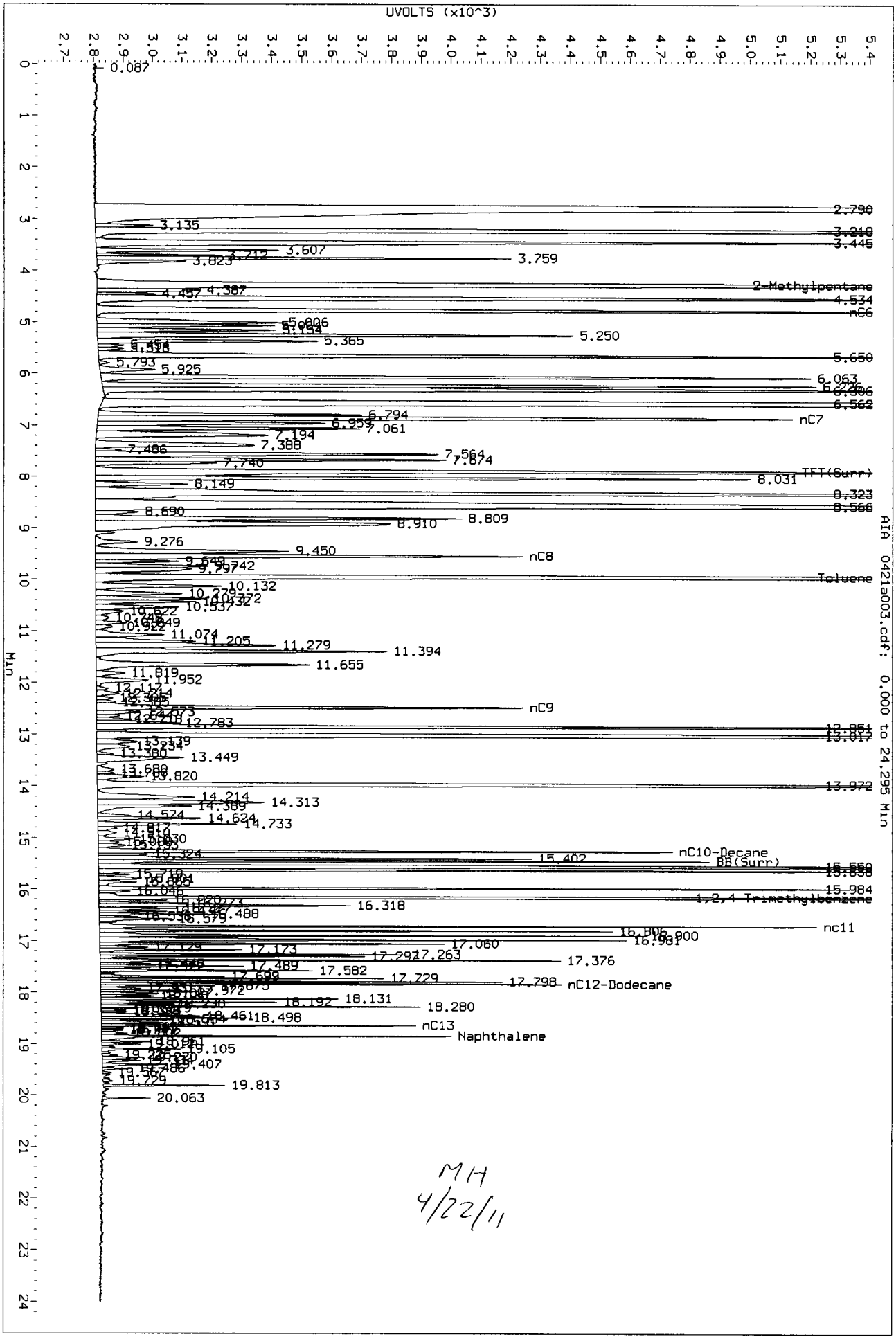
Operator: MH

Column diameter: 0.18

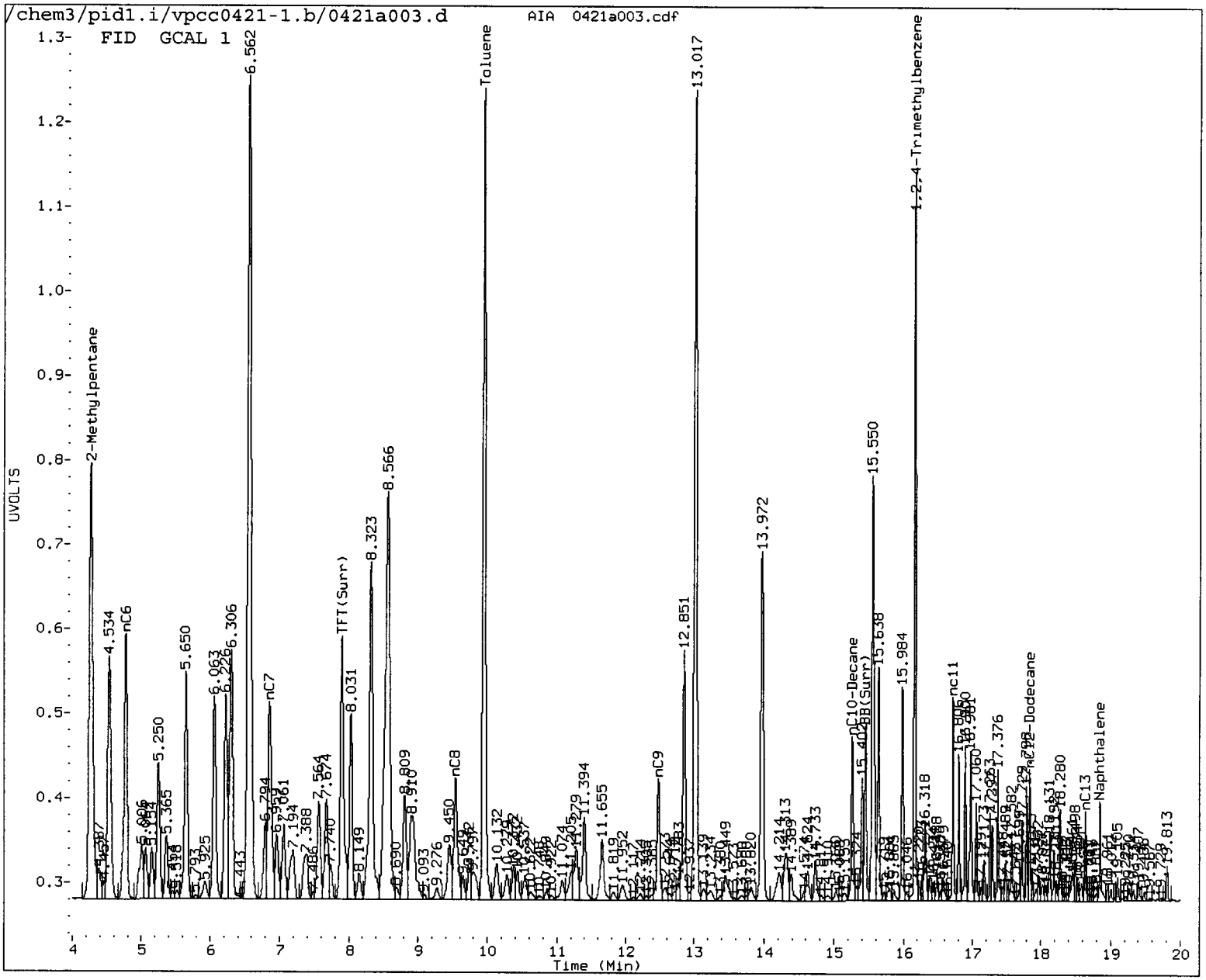
1515

SS88 : 01512




UVOLTS (x10^3)
Min
0.087
2.790
3.135
3.219
3.445
3.607
3.712
3.759
3.823
2-Methylpentane
4.387
4.457
4.534
nC6
5.006
5.194
5.250
5.365
5.650
5.793
5.925
6.063
6.306
6.562
6.794
6.955
7.061
nC7
7.194
7.388
7.486
7.564
7.674
7.740
TFT(Surr)
8.031
8.149
8.323
8.566
8.690
8.809
8.910
9.276
9.450
nC8
9.742
Toluene
10.132
10.337
11.074
11.205
11.279
11.394
11.655
11.819
11.952
nC9
12.783
12.851
13.017
13.380
13.449
13.820
13.972
14.214
14.313
14.389
14.524
14.624
14.733
15.324
nC10-Decane
15.402
BB(Surr)
15.550
15.698
15.984
1,2,4-Trimethylbenzene
16.318
16.488
16.579
nc11
16.806
16.900
16.981
17.060
17.129
17.173
17.263
17.376
17.448
17.489
17.582
17.729
17.798
nC12-Dodecane
18.131
18.192
18.280
18.461
18.498
nC13
Naphthalene
19.105
19.407
19.729
19.813
20.063
AIA 0421a003.cdf: 0.000 to 24.295 Min
Data File: /chem3/pid1.i/vpcc0421-1.b/0421a003.d/0421a003.cdf
Injection Date: 21-APR-2011 06:31
Instrument: pid1.i
Client Sample ID:

MH
4/22/11



MANUAL INTEGRATION

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

5. Other _____

Analyst: MH Date: 4/22/11

MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a004.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a004.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: LCS0421
Client ID:
Injection Date: 21-APR-2011 07:00
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.902	0.000	2870	44403	101.4	TFT(Surr)
15.449	-0.001	2035	18133	97.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	398928	1.064 M
8015B 2MP-TMB	(4.16 to 16.26)	747017	791466	1.060 M
AK101 nC6-nC10	(4.66 to 15.16)	604063	636456	1.054 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	428009	1.061 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
7.901	0.000	6295	96.7	TFT(Surr)
15.448	-0.001	12962	96.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.055	0.000	1420	3.24	Benzene
9.946	0.000	14362	36.73	Toluene
12.849	-0.002	3674	10.76	Ethylbenzene
13.013	0.000	14448	39.34	M/P-Xylene
13.969	-0.002	5209	18.19	O-Xylene
4.518	-0.011	305	1.80	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a004.d

Date : 21-APR-2011 07:00

Client ID:

Sample Info: LCS0421

Column phase: RTX 502-2 FID

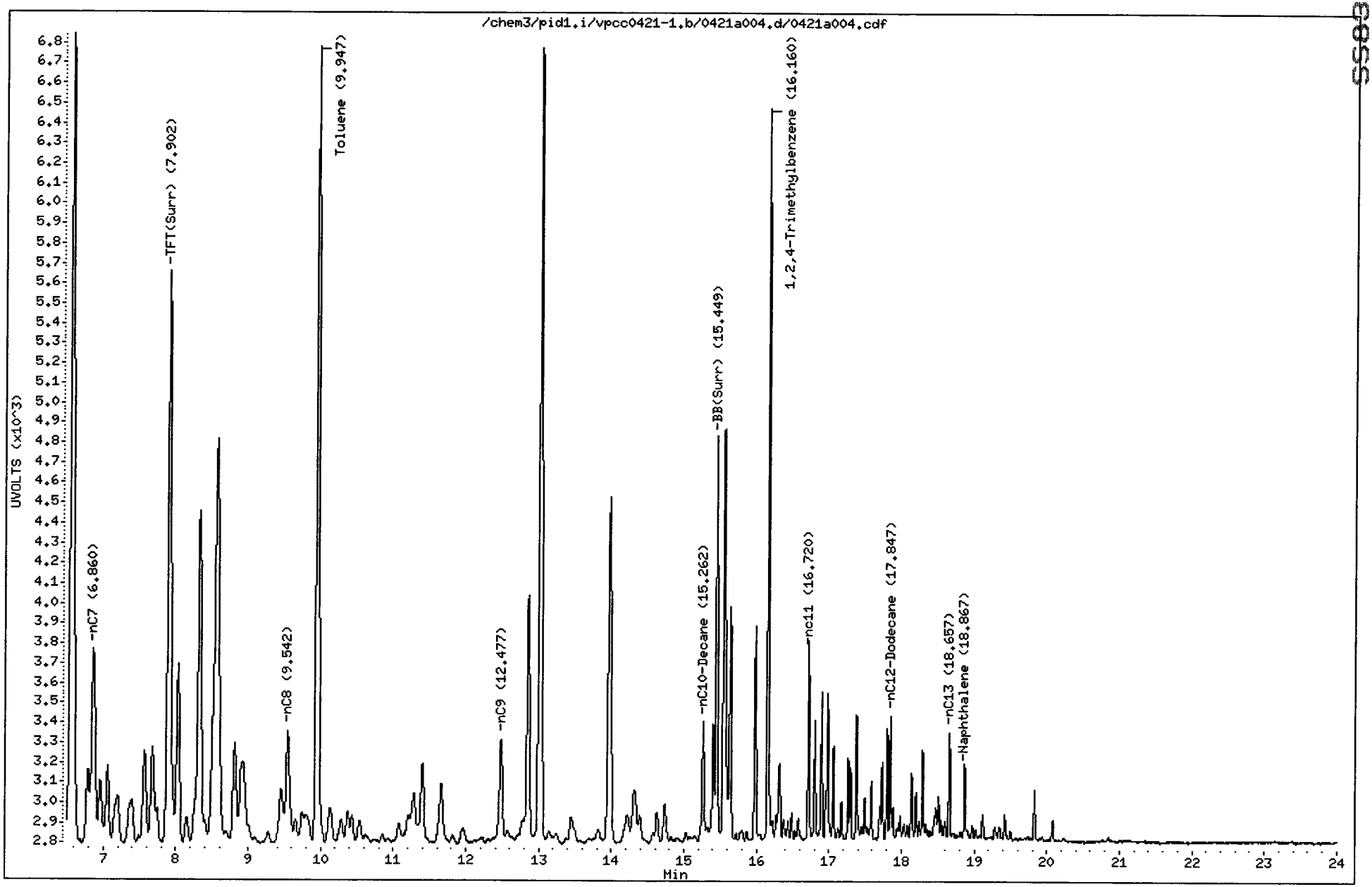
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1519

SS83 : 01516



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a004.d
Date : 21-APR-2011 07:00
Client ID:
Sample Info: LCS0421

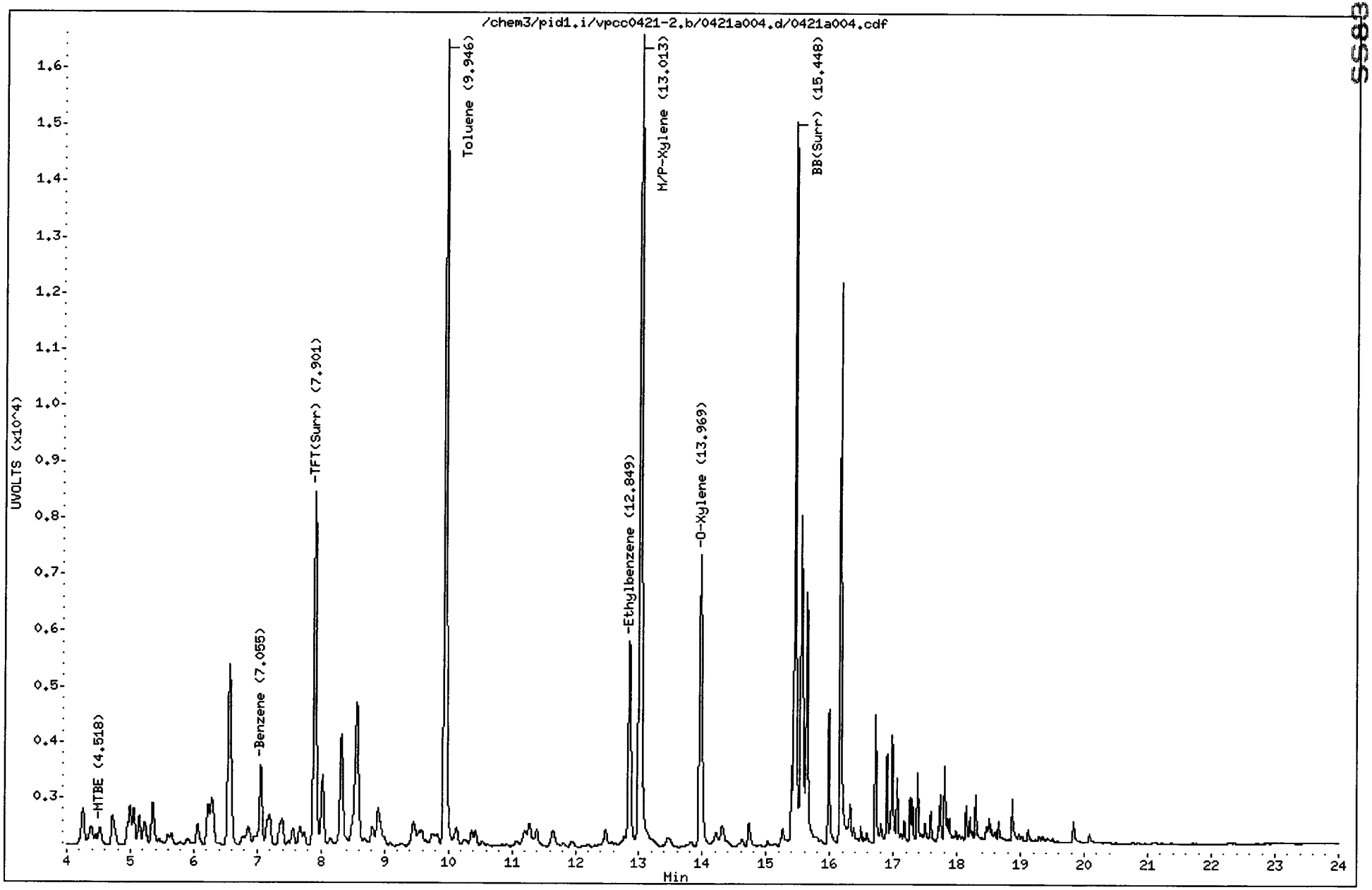
Column phase: RTX 502-2 PID

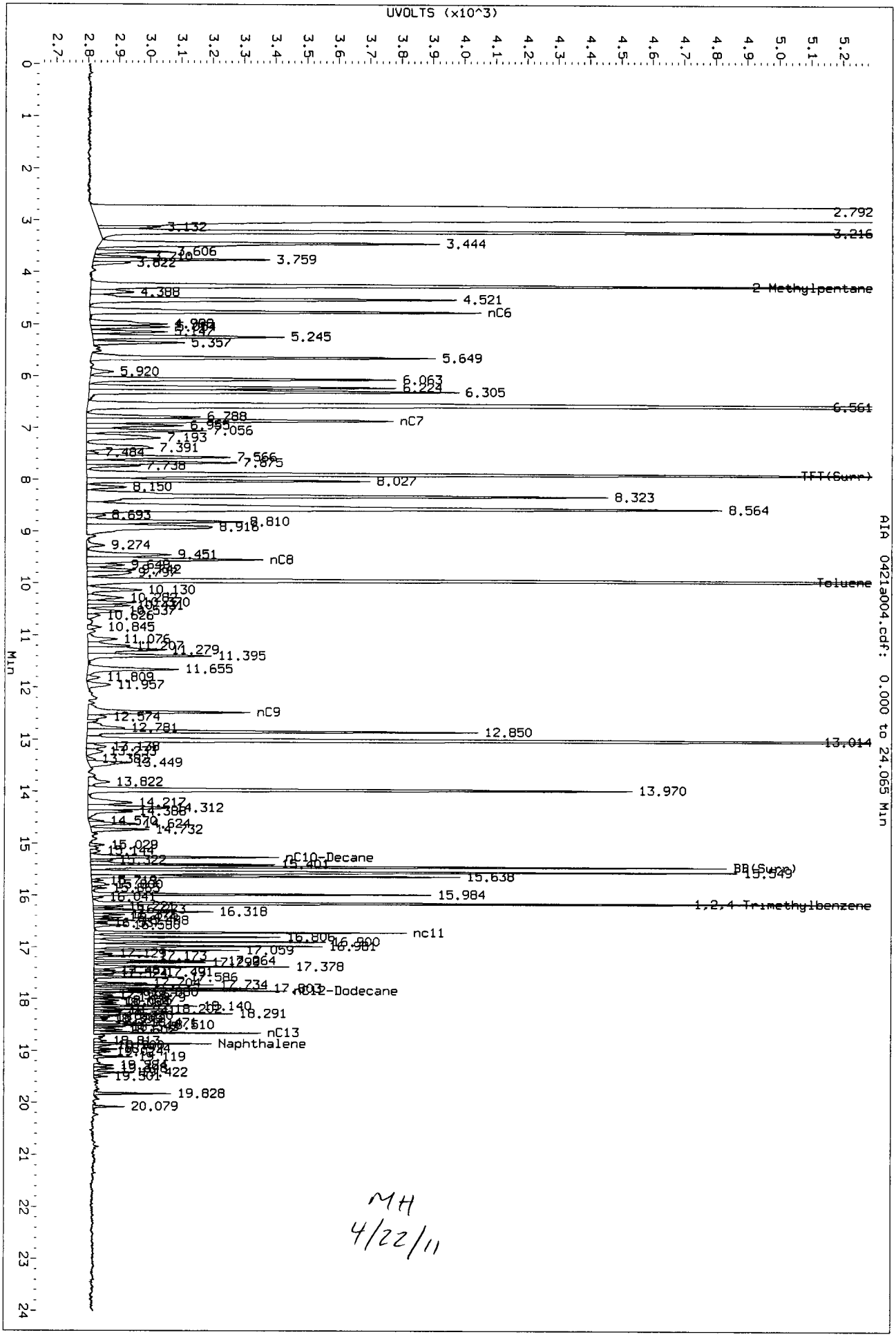
Instrument: pid1.i

Operator: MH
Column diameter: 0.18

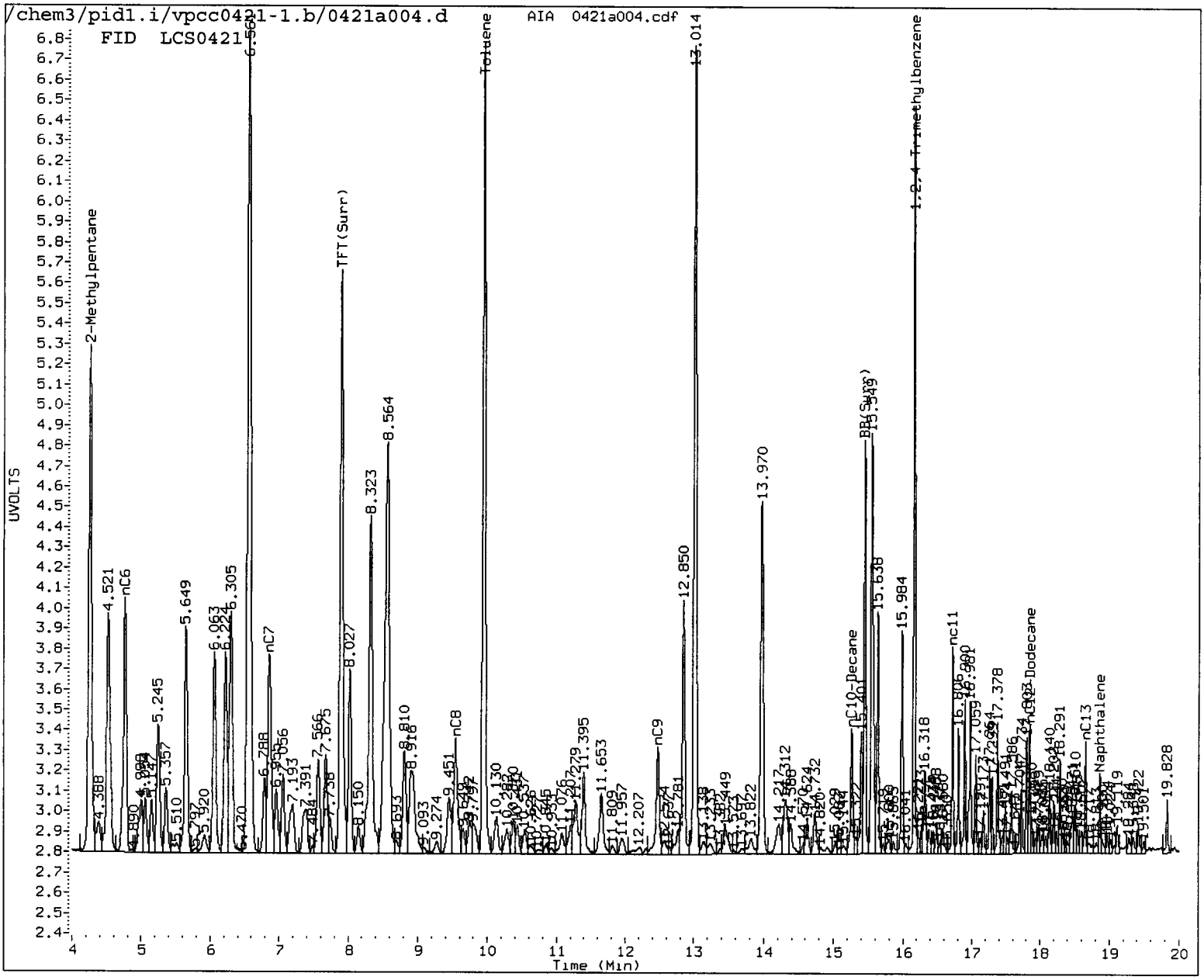
1520

SS83 : 61517





MH
4/22/11



MANUAL INTEGRATION

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

5. Other _____

Analyst: MH Date: 4/22/11

SS83:01519

MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a005.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a005.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: LCSD0421
Client ID:
Injection Date: 21-APR-2011 07:29
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.904	0.002	2872	43822	101.5	TFT(Surr)
15.450	0.000	2051	17667	98.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	344313	0.919 M
8015B 2MP-TMB	(4.16 to 16.26)	747017	719844	0.964 M
AK101 nC6-nC10	(4.66 to 15.16)	604063	580000	0.960 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	368089	0.912 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
7.902	0.002	6307	96.8	TFT(Surr)
15.450	0.000	13155	97.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.056	0.001	1363	3.11	Benzene
9.947	0.001	13777	35.23	Toluene
12.851	0.000	3482	10.19	Ethylbenzene
13.015	0.002	13837	37.68	M/P-Xylene
13.971	0.000	4923	17.19	O-Xylene
4.520	-0.010	294	1.73	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a005.d

Date : 21-APR-2011 07:29

Client ID:

Sample Info: LCSD0421

Column phase: RTX 502-2 FID

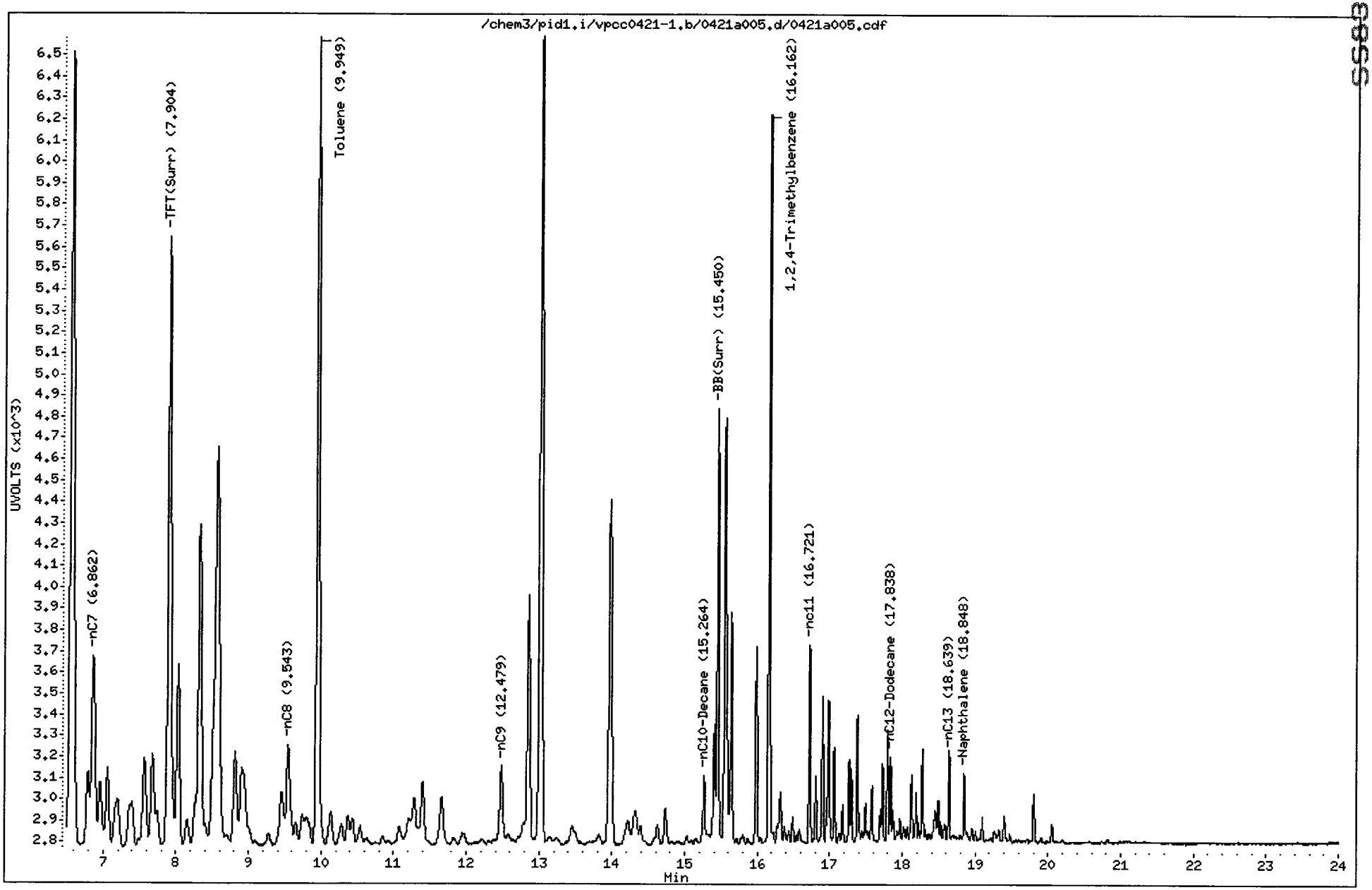
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1524

SS83 : 01521



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a005.d

Date : 21-APR-2011 07:29

Client ID:

Sample Info: LCSD0421

Column phase: RTX 502-2 PID

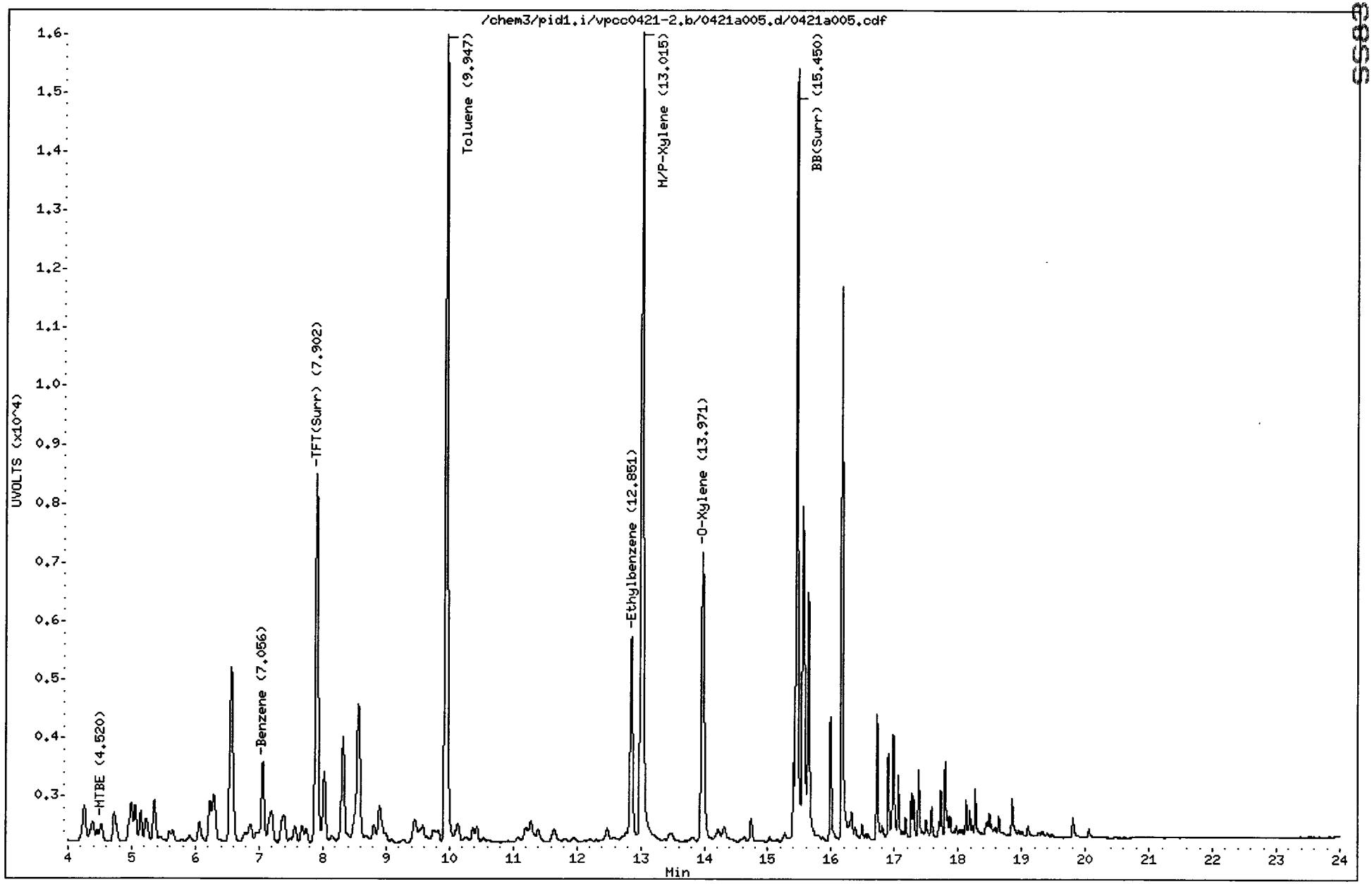
Instrument: pid1.i

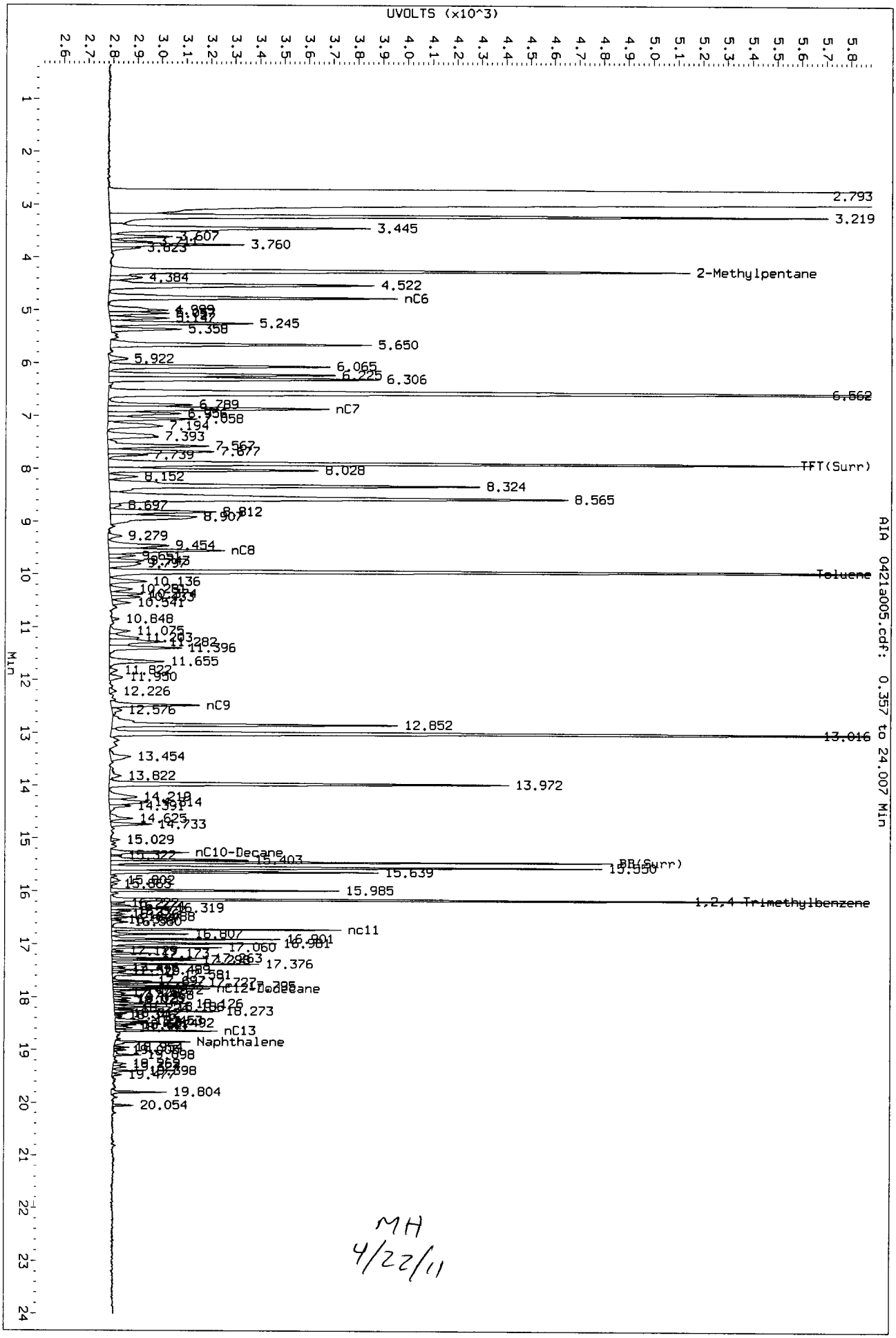
Operator: MH

Column diameter: 0.18

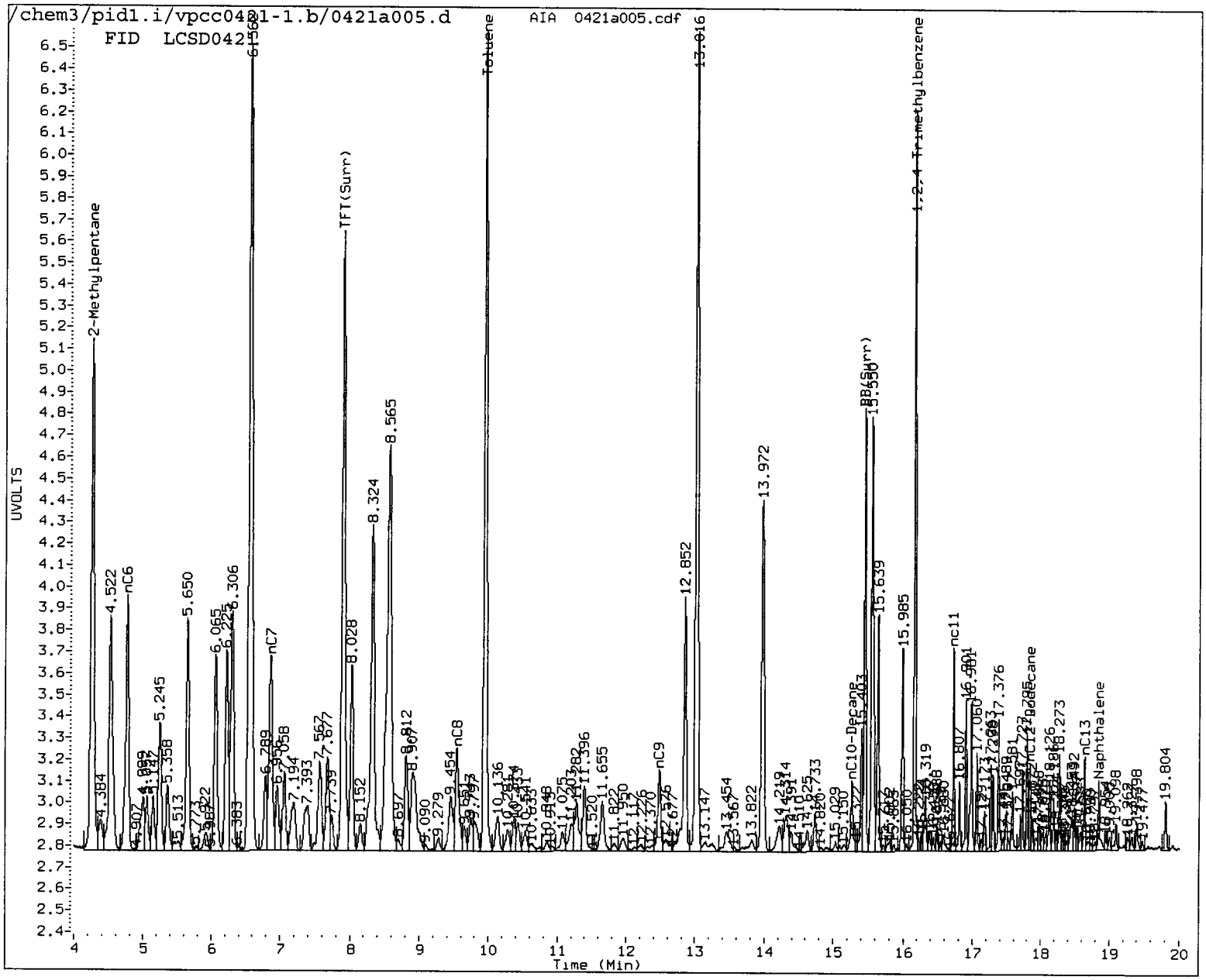
1525

SS83:015522




UVOLTS (x10^3)
Min
2.793
3.219
3.445
3.607
3.760
2-Methylpentane
4.384
4.522
nC6
5.245
5.358
5.650
5.922
6.065
6.306
6.562
nC7
7.194
7.393
7.567
7.739
TFT(Surr)
8.028
8.152
8.324
8.565
8.697
8.812
8.907
9.279
9.454
nC8
Toluene
10.136
10.541
10.848
11.025
11.396
11.655
11.822
11.930
12.226
nC9
12.576
12.852
13.016
13.454
13.822
13.972
14.625
14.733
15.029
nC10-Decane
15.322
15.403
BB(Surr)
15.550
15.639
15.802
15.985
1,2,4-Trimethylbenzene
16.319
nc11
16.807
16.801
16.981
17.060
17.376
nC12-Dodecane
18.273
nC13
Naphthalene
19.804
20.054
AIA 0421a005.cdf: 0.357 to 24.007 Min
Data File: /chem3/pid1.i/vpcc0421-1.b/0421a005.d/0421a005.cdf
Injection Date: 21-APR-2011 07:29
Instrument: pid1.i
Client Sample ID:

MH
4/22/11



MANUAL INTEGRATION

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

5. Other _____

Analyst: MH Date: 4/22/11

SS83:01524

MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a006.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a006.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: MB0421
Client ID:
Injection Date: 21-APR-2011 07:58
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.902	0.000	2722	36799	96.2	TFT(Surr)
15.450	0.000	1997	16717	95.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	6059	0.016
8015B 2MP-TMB	(4.16 to 16.26)	747017	5294	0.007
AK101 nC6-nC10	(4.66 to 15.16)	604063	3182	0.005
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	8025	0.020

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
7.900	0.000	6096	93.6	TFT(Surr)
15.450	0.000	12803	95.0	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/vpcc0421-1.b/0421a006.d

Date : 21-APR-2011 07:58

Client ID:

Sample Info: MB0421

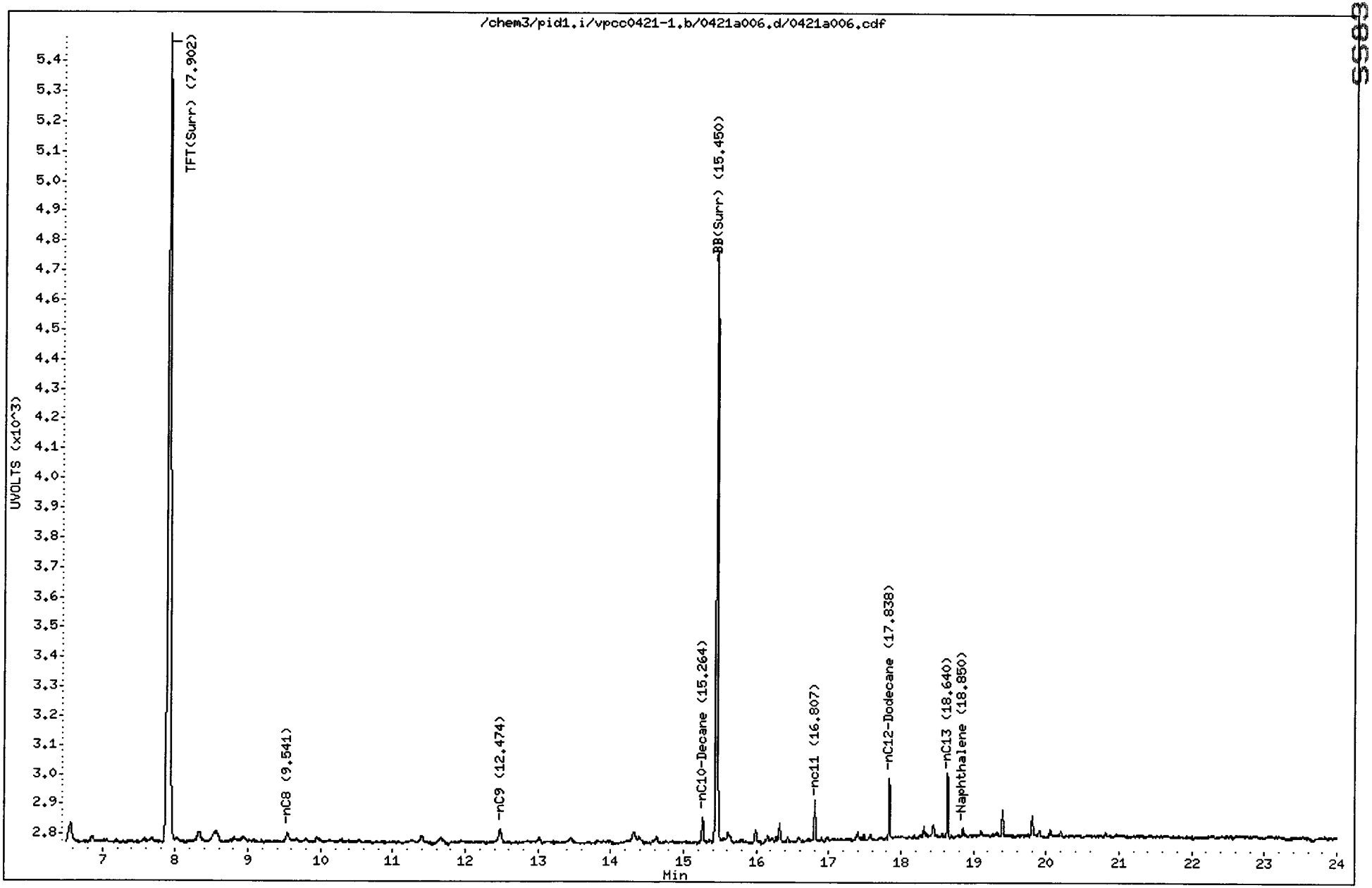
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpcc0421-1.b/0421a006.d/0421a006.cdf



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a006.d

Date : 21-APR-2011 07:58

Client ID:

Sample Info: MB0421

Column phase: RTX 502-2 PID

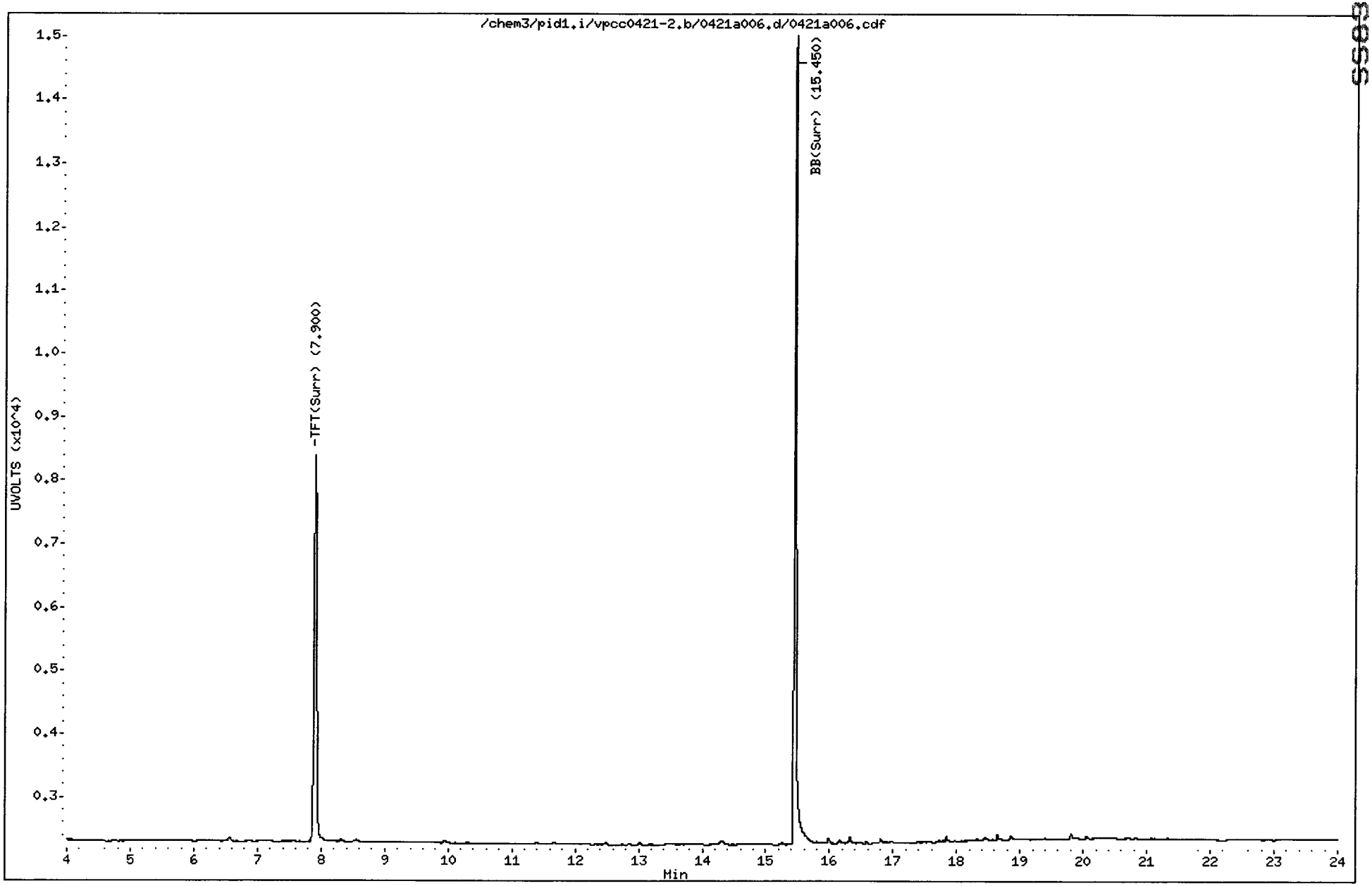
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1530

SS83-01527



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a007.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a007.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83Q
Client ID: TP-TB-042011
Injection Date: 21-APR-2011 08:44
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.902	0.000	2857	38651	101.0	TFT(Surr)
15.450	0.001	2031	16902	97.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	1777	0.005
8015B 2MP-TMB	(4.16 to 16.26)	747017	630	0.001
AK101 nC6-nC10	(4.66 to 15.16)	604063	353	0.001
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	3170	0.008

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
7.900	0.000	6476	99.4	TFT(Surr)
15.450	0.001	13024	96.6	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/vpcc0421-1.b/0421a007.d

Date : 21-APR-2011 08:44

Client ID: TP-TB-042011

Sample Info: SS83Q

Column phase: RTX 502-2 FID

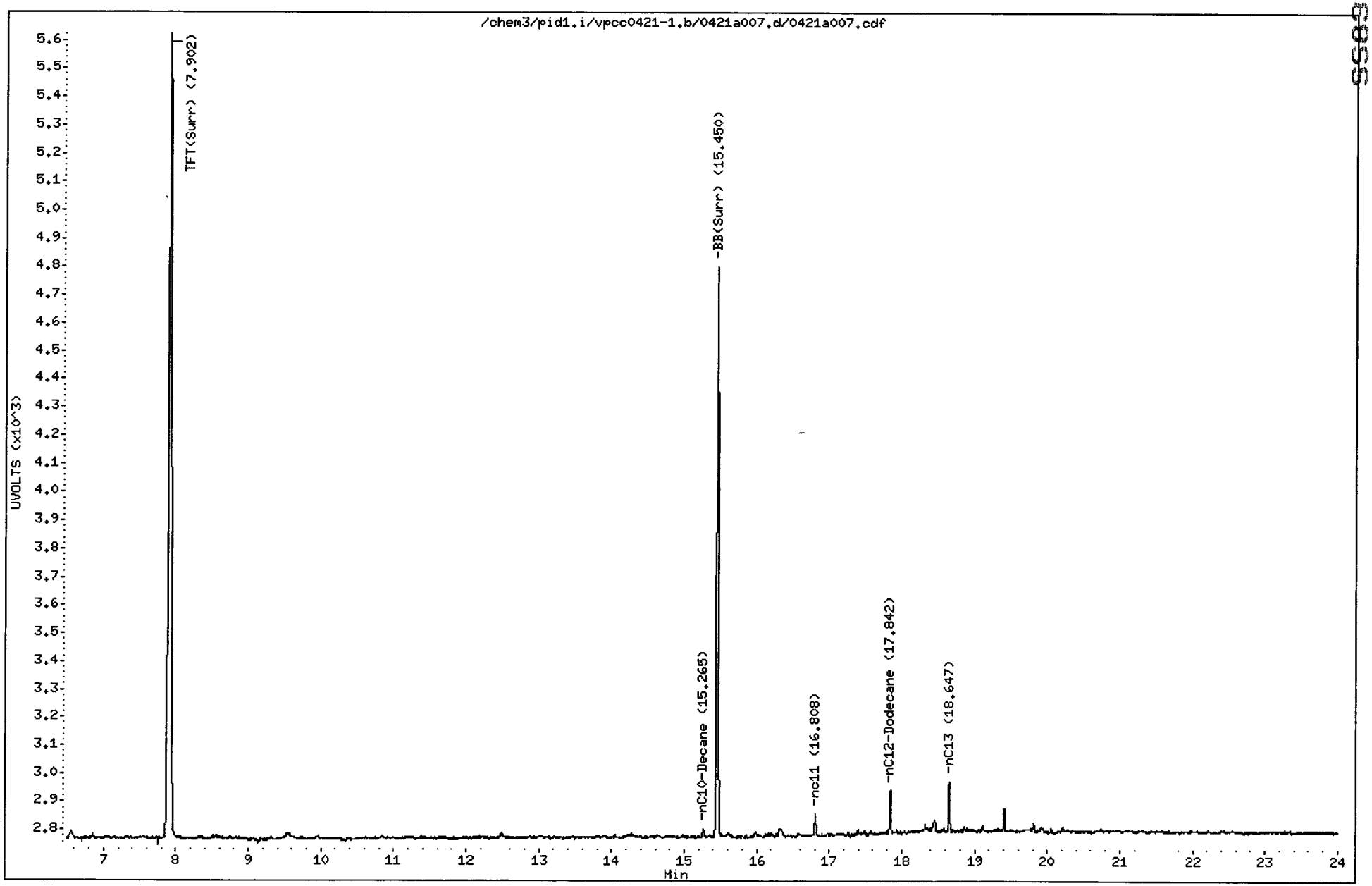
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1532

SS83 61523



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a007.d

Date : 21-APR-2011 08:44

Client ID: TP-TB-042011

Sample Info: SS83Q

Column phase: RTX 502-2 PID

Instrument: pid1.i

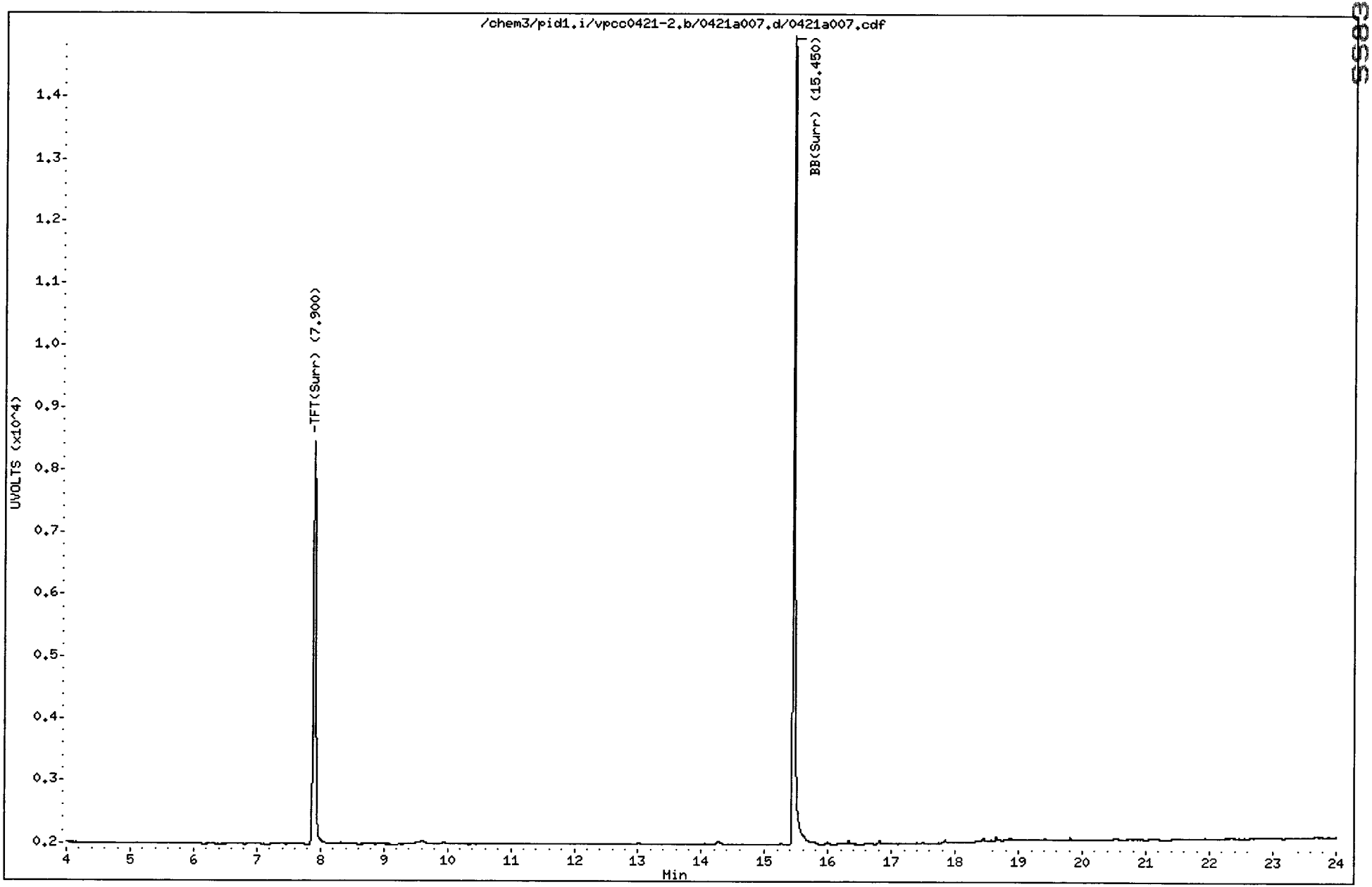
Operator: MH

Column diameter: 0.18

1533

SS83 : 01530

/chem3/pid1.i/vpcc0421-2.b/0421a007.d/0421a007.cdf



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a008.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a008.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83P
Client ID: DMA-RB-042011
Injection Date: 21-APR-2011 09:13
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.902	0.000	2842	38434	100.5	TFT(Surr)
15.449	-0.001	2022	16911	97.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	1177	0.003
8015B 2MP-TMB	(4.16 to 16.26)	747017	1	0.000
AK101 nC6-nC10	(4.66 to 15.16)	604063	0	0.000
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	2384	0.006

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
7.900	0.000	6384	98.0	TFT(Surr)
15.449	-0.001	12851	95.3	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/vpcc0421-1.b/0421a008.d

Date : 21-APR-2011 09:13

Client ID: DMA-RB-042011

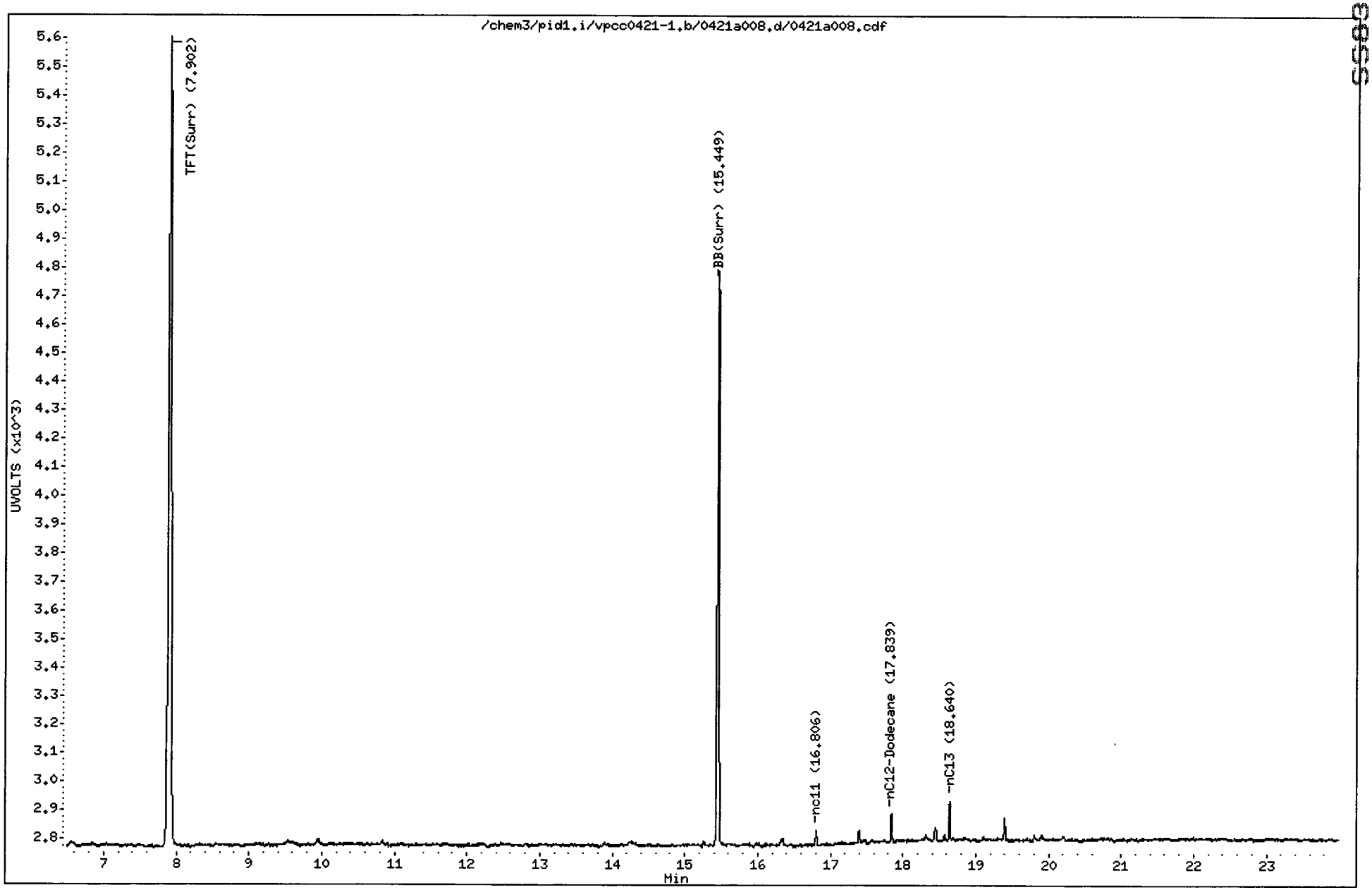
Sample Info: SS83P

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a008.d

Date : 21-APR-2011 09:13

Client ID: DMA-RB-042011

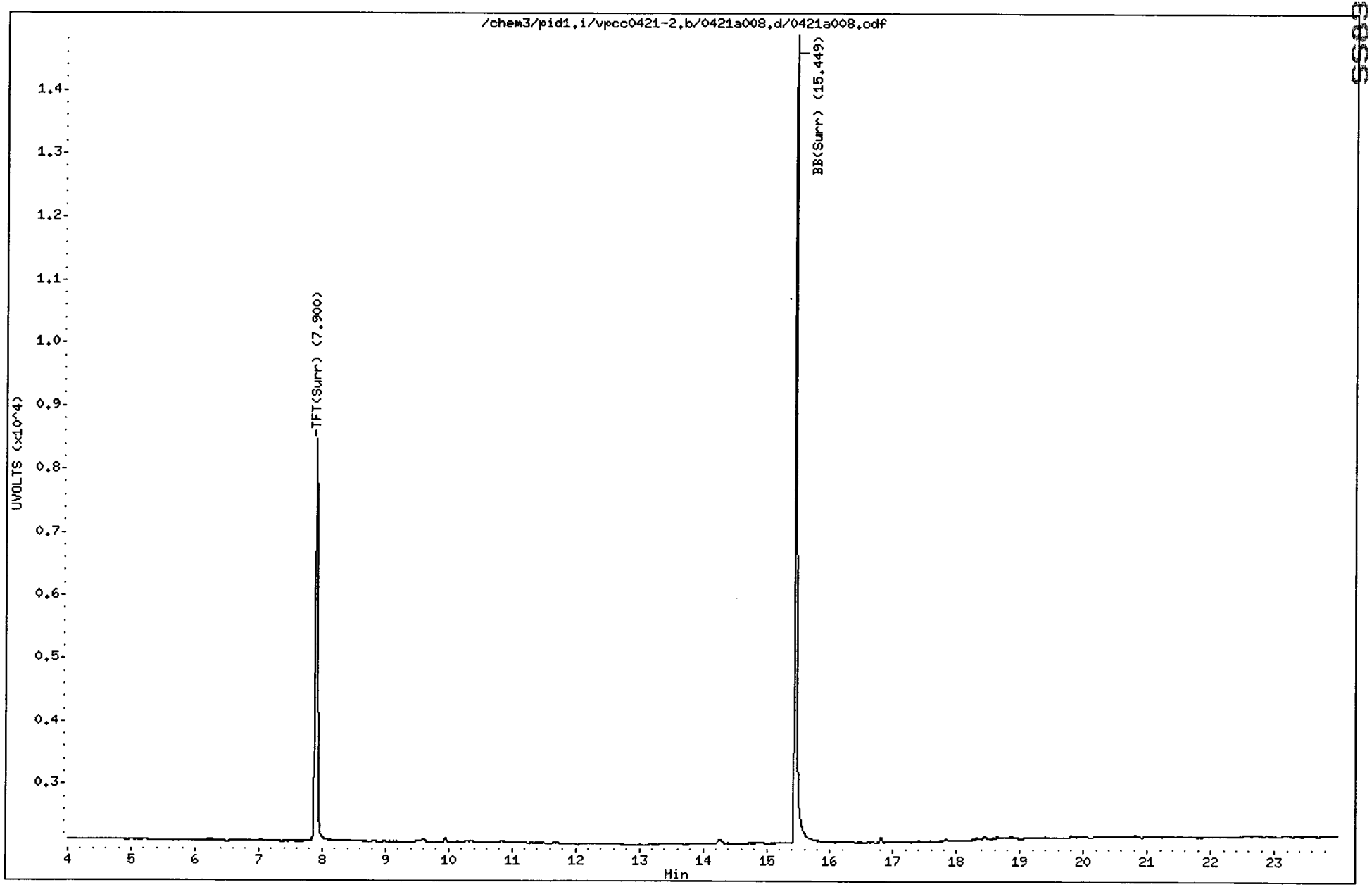
Sample Info: SS83P

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a009.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a009.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83A
Client ID: DMA-TP1-0-3-041911
Injection Date: 21-APR-2011 09:42
Matrix: SOIL
Dilution Factor: 1.000

==========

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.901	-0.002	5550	75007	~~196.2~~ 98.1	TFT(Surr)
15.450	0.000	3991	33263	~~191.4~~ 95.7	BB(Surr)

doubles surr MH 4/22

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	1489	0.004
8015B 2MP-TMB	(4.16 to 16.26)	747017	2	0.000
AK101 nC6-nC10	(4.66 to 15.16)	604063	1	0.000
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	2963	0.007

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
7.899	-0.001	12724	~~195.4~~ 97.7	TFT(Surr)
15.449	0.000	26415	~~196.0~~ 98	BB(Surr)

doble surr MH 4/22

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/vpcc0421-1.b/0421a009.d

Date : 21-APR-2011 09:42

Client ID: DMA-TP1-0-3-041911

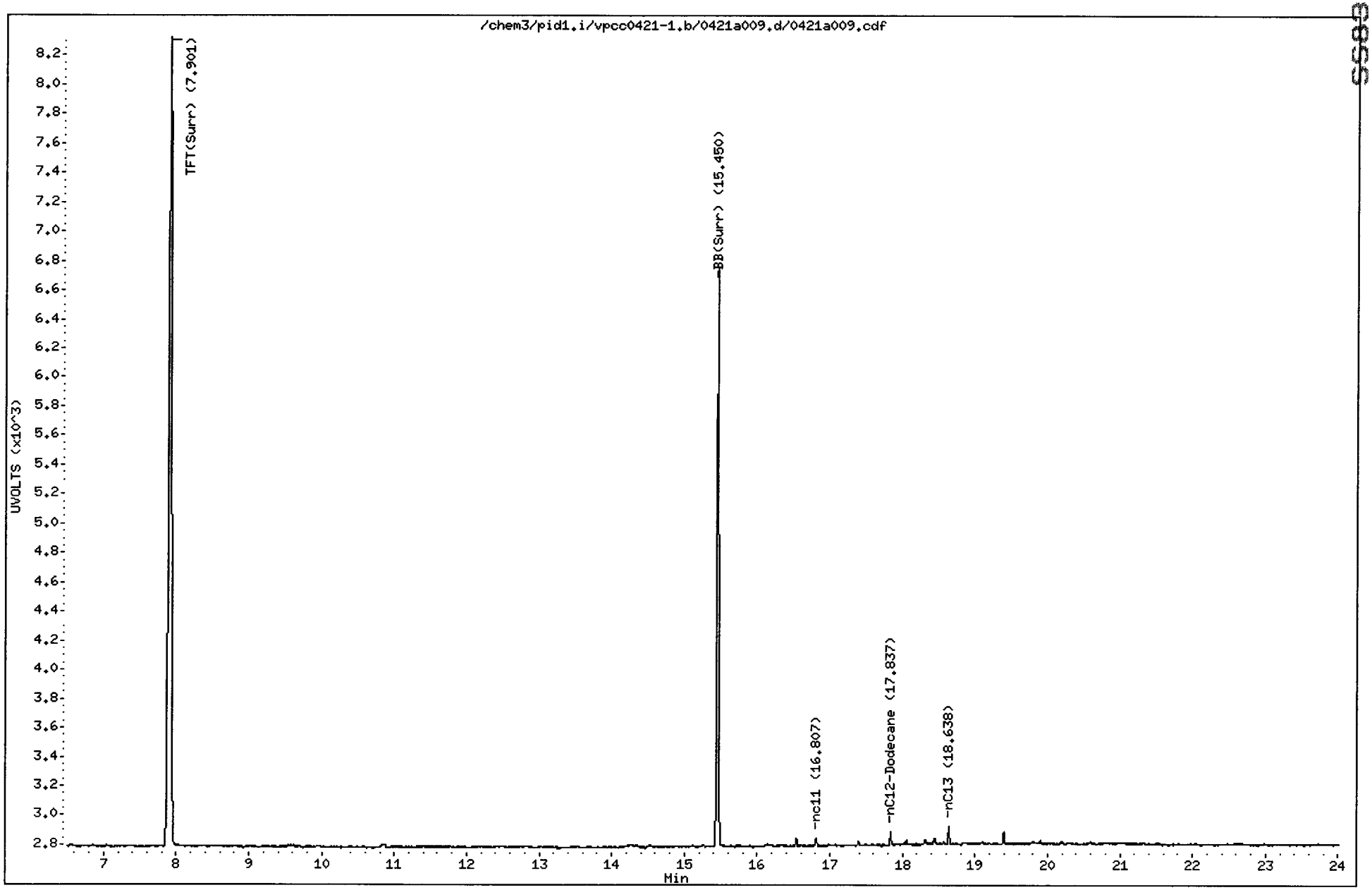
Sample Info: SS83A

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a009.d

Date : 21-APR-2011 09:42

Client ID: DMA-TP1-0-3-041911

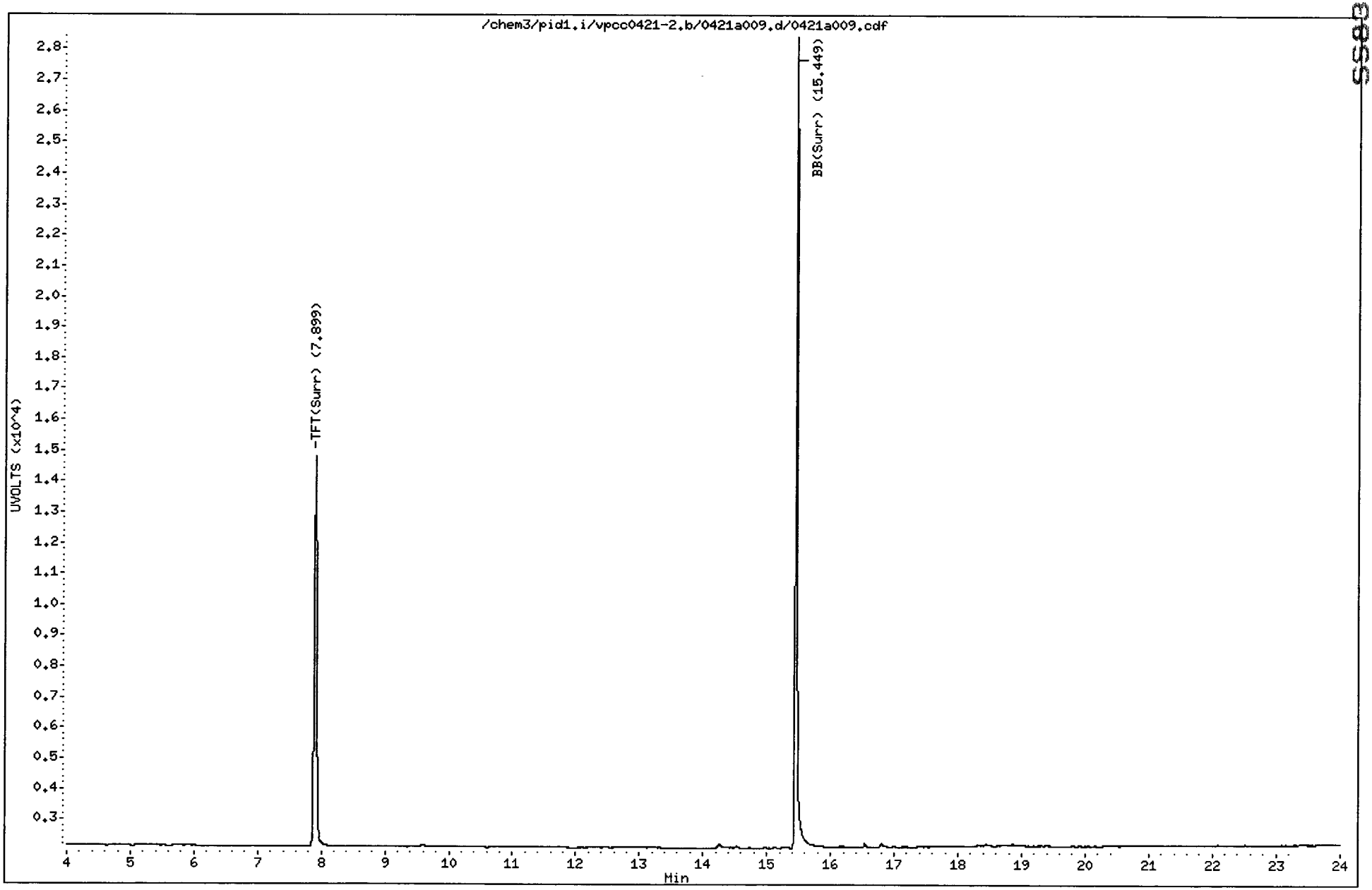
Sample Info: SS83A

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a010.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a010.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83B
Client ID: DMA-TP1-3-4.5-04191
Injection Date: 21-APR-2011 10:11
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.901	-0.001	2879	38980	101.8	TFT(Surr)
15.449	-0.001	2077	17343	99.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	28730	0.077
8015B 2MP-TMB	(4.16 to 16.26)	747017	22804	0.031
AK101 nC6-nC10	(4.66 to 15.16)	604063	21089	0.035
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	32545	0.081

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
7.900	-0.001	6424	98.6	TFT(Surr)
15.449	-0.001	13366	99.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
9.945	0.000	494	1.26	Toluene
12.850	-0.001	316	0.93	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/vpcc0421-1.b/0421a010.d

Date : 21-APR-2011 10:11

Client ID: DMA-TP1-3-4.5-04191

Sample Info: SS83B

Column phase: RTX 502-2 FID

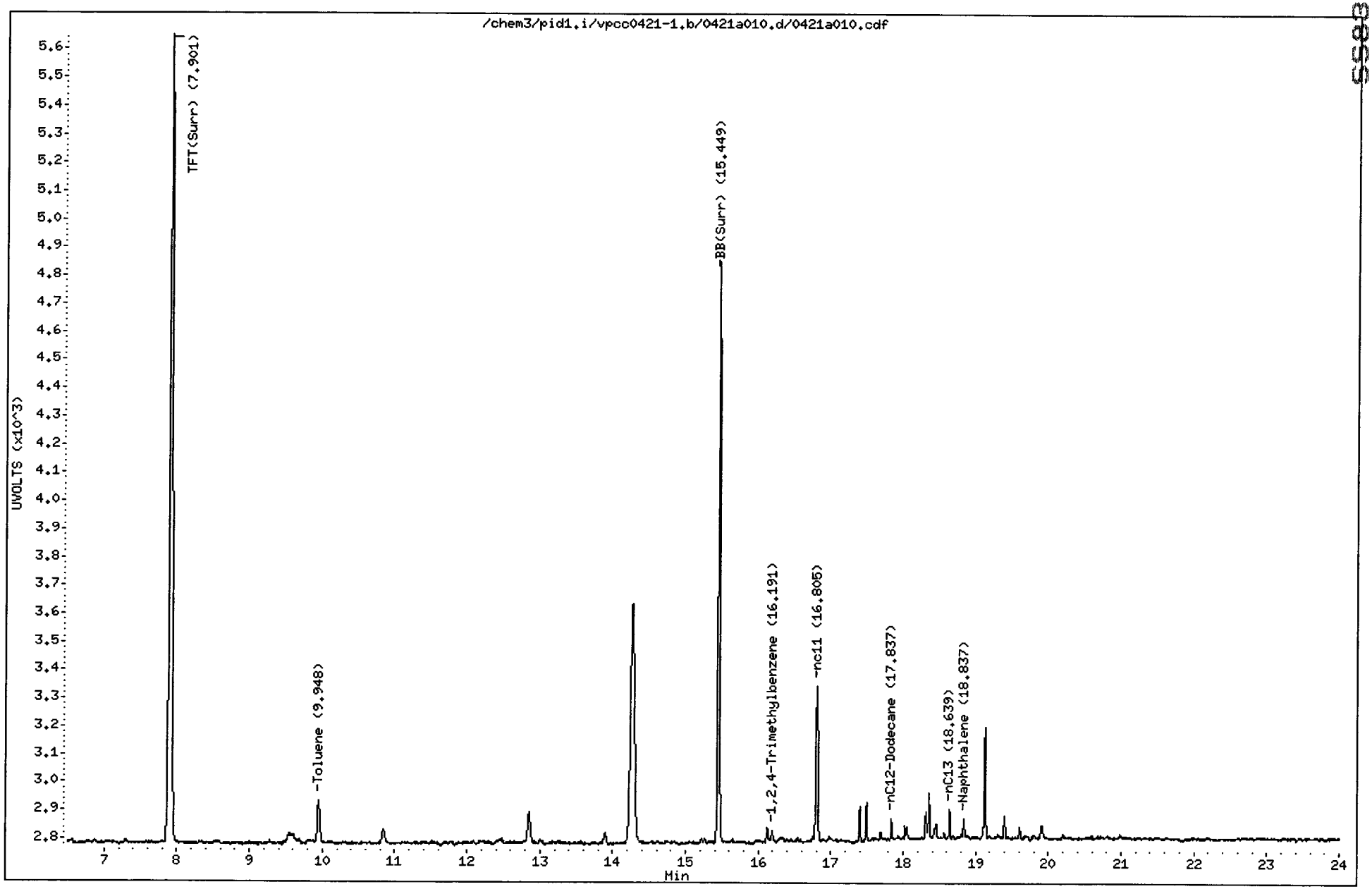
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

SS83 : 01538

1541



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a010.d
Date : 21-APR-2011 10:11
Client ID: DMA-TP1-3-4.5-04191
Sample Info: SS83B

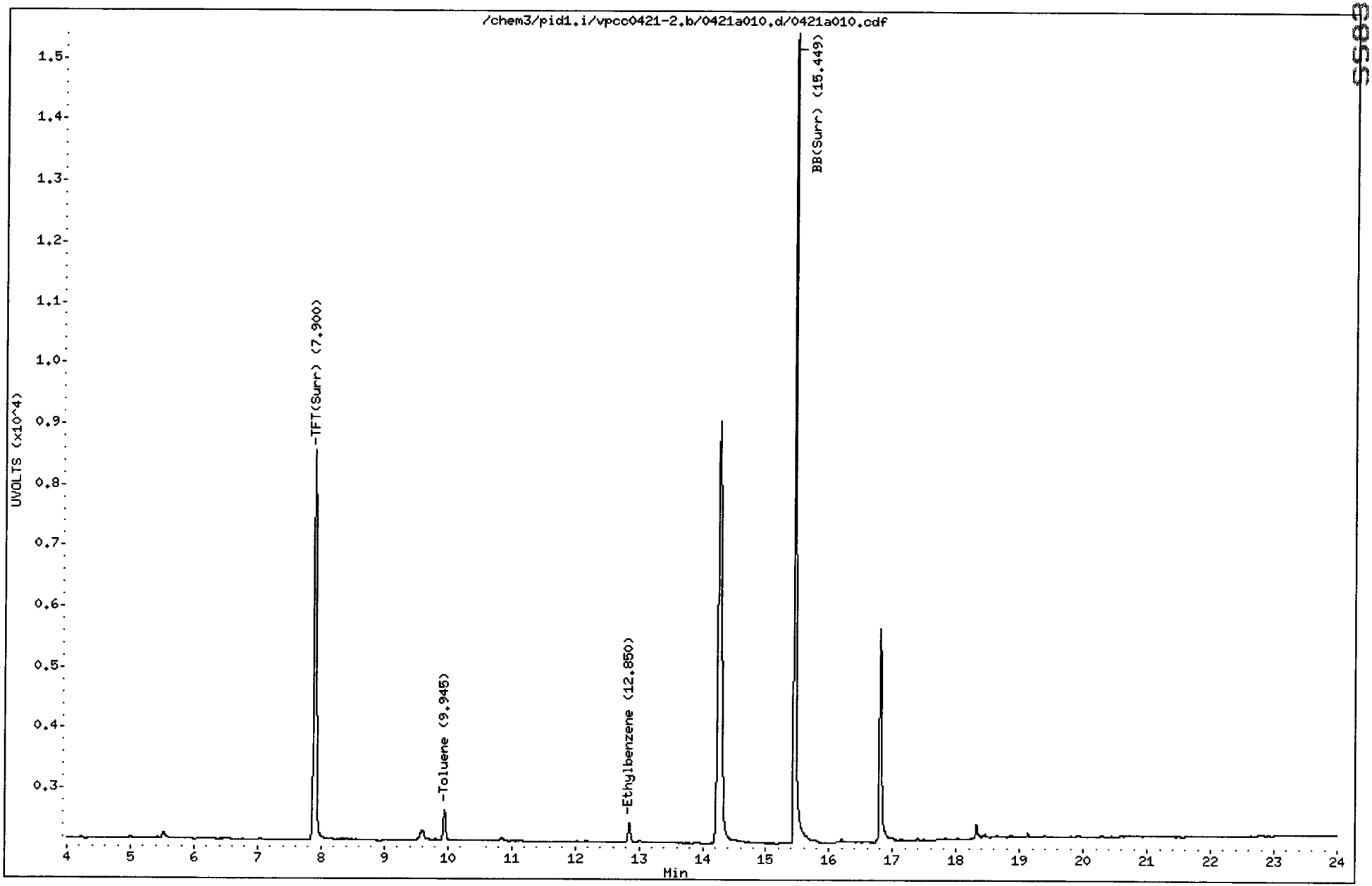
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18

1542

SS83 : 01539



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a011.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a011.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83C
Client ID: DMA-TP1-4.5-5.5-041
Injection Date: 21-APR-2011 10:40
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.901	-0.002	2785	37256	98.4	TFT(Surr)
15.450	0.000	1998	16685	95.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	4246	0.011
8015B 2MP-TMB	(4.16 to 16.26)	747017	2580	0.003
AK101 nC6-nC10	(4.66 to 15.16)	604063	2580	0.004
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	6018	0.015

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
7.899	-0.002	6245	95.9	TFT(Surr)
15.449	0.000	12813	95.1	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/vpcc0421-1.b/0421a011.d

Date : 21-APR-2011 10:40

Client ID: DMA-TP1-4.5-5.5-041

Sample Info: SS83C

Column phase: RTX 502-2 FID

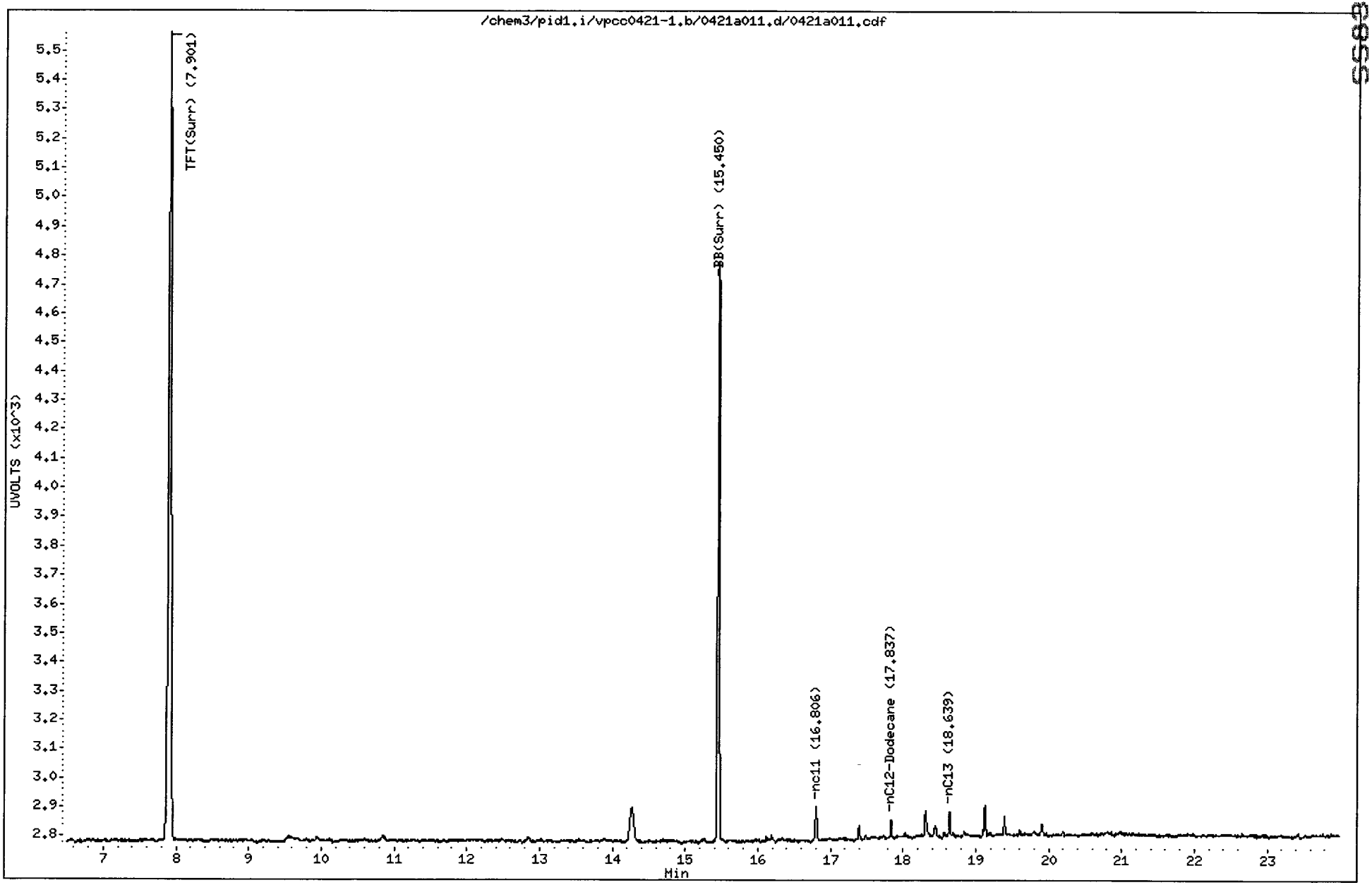
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1544

SS83 : 01511



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a011.d

Date : 21-APR-2011 10:40

Client ID: DMA-TP1-4.5-5.5-041

Sample Info: SS83C

Column phase: RTX 502-2 PID

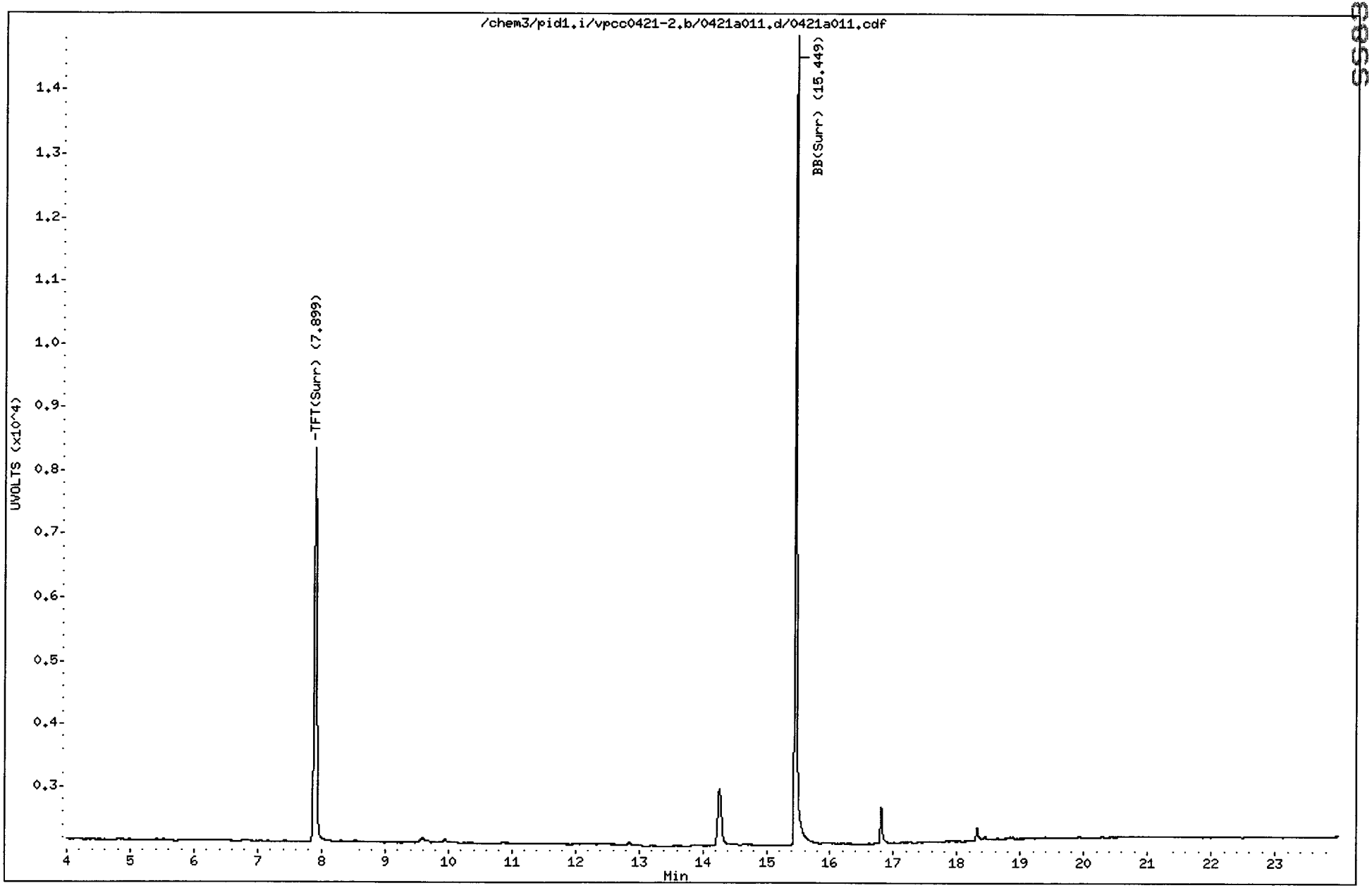
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1545

SS83 . 01542



4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a012.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a012.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83D
Client ID: DMA-TP2-1.5-3-04191
Injection Date: 21-APR-2011 11:10
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.002	2712	36512	95.9	TFT(Surr)
15.449	-0.001	1972	16519	94.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	3359	0.009
8015B 2MP-TMB	(4.16 to 16.26)	747017	2274	0.003
AK101 nC6-nC10	(4.66 to 15.16)	604063	1430	0.002
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	4879	0.012

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
7.898	-0.002	6108	93.8	TFT(Surr)
15.449	-0.001	12550	93.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
9.945	-0.001	274	0.70	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/vpcc0421-1.b/0421a012.d

Date : 21-APR-2011 11:10

Client ID: DMA-TP2-1.5-3-04191

Sample Info: SS83D

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1547

SS83 : 01511

/chem3/pid1.i/vpcc0421-1.b/0421a012.d/0421a012.cdf

UVOLTS (x10^3)

TFT(Surr) (7.900)

-Toluene (9.946)

-BB(Surr) (15.449)

-1,2,4-Trimethylbenzene (16.123)

-nc11 (16.805)

-nC12-Dodecane (17.839)

-nC13 (18.639)

Min

Data File: /chem3/pid1.i/vpcc0421-2.b/0421a012.d

Date : 21-APR-2011 11:10

Client ID: DMA-TP2-1.5-3-04191

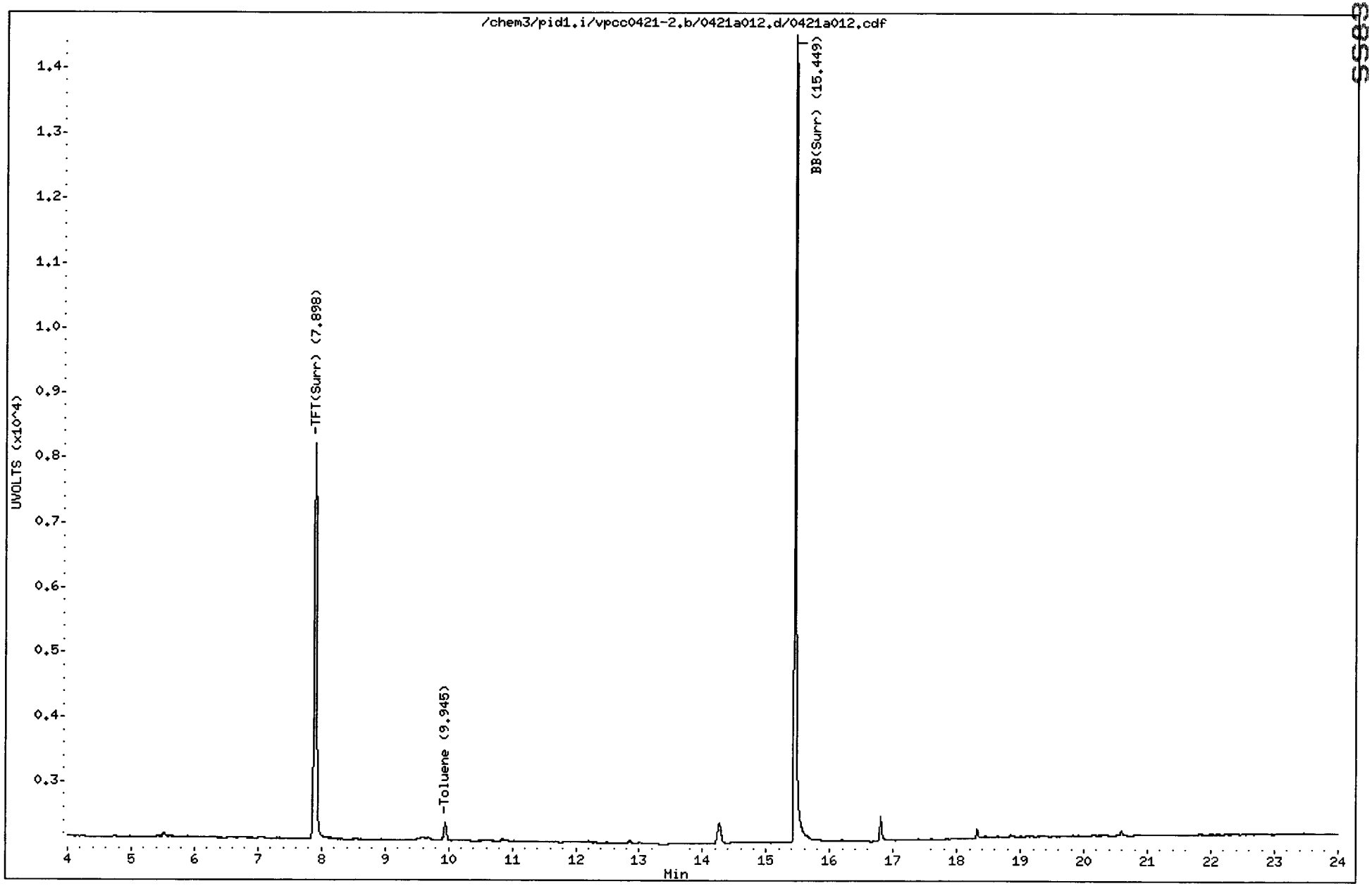
Sample Info: SS83D

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a014.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a014.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BCAL 2
Client ID:
Injection Date: 21-APR-2011 12:08
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.901	-0.001	2800	38194	99.0	TFT(Surr)
15.449	-0.001	2029	17185	97.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	238386	0.636
8015B 2MP-TMB	(4.16 to 16.26)	747017	235344	0.315
AK101 nC6-nC10	(4.66 to 15.16)	604063	218057	0.361
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	239210	0.593

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
7.899	-0.001	6313	96.9	TFT(Surr)
15.449	-0.001	13078	97.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.048	-0.007	10657	24.31	Benzene
9.945	-0.001	9348	23.91	Toluene
12.850	-0.001	8333	24.40	Ethylbenzene
13.011	-0.001	17897	48.74	M/P-Xylene
13.969	-0.002	7182	25.08	O-Xylene
4.526	-0.004	3942	23.22	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a014.d

Date : 21-APR-2011 12:08

Client ID:

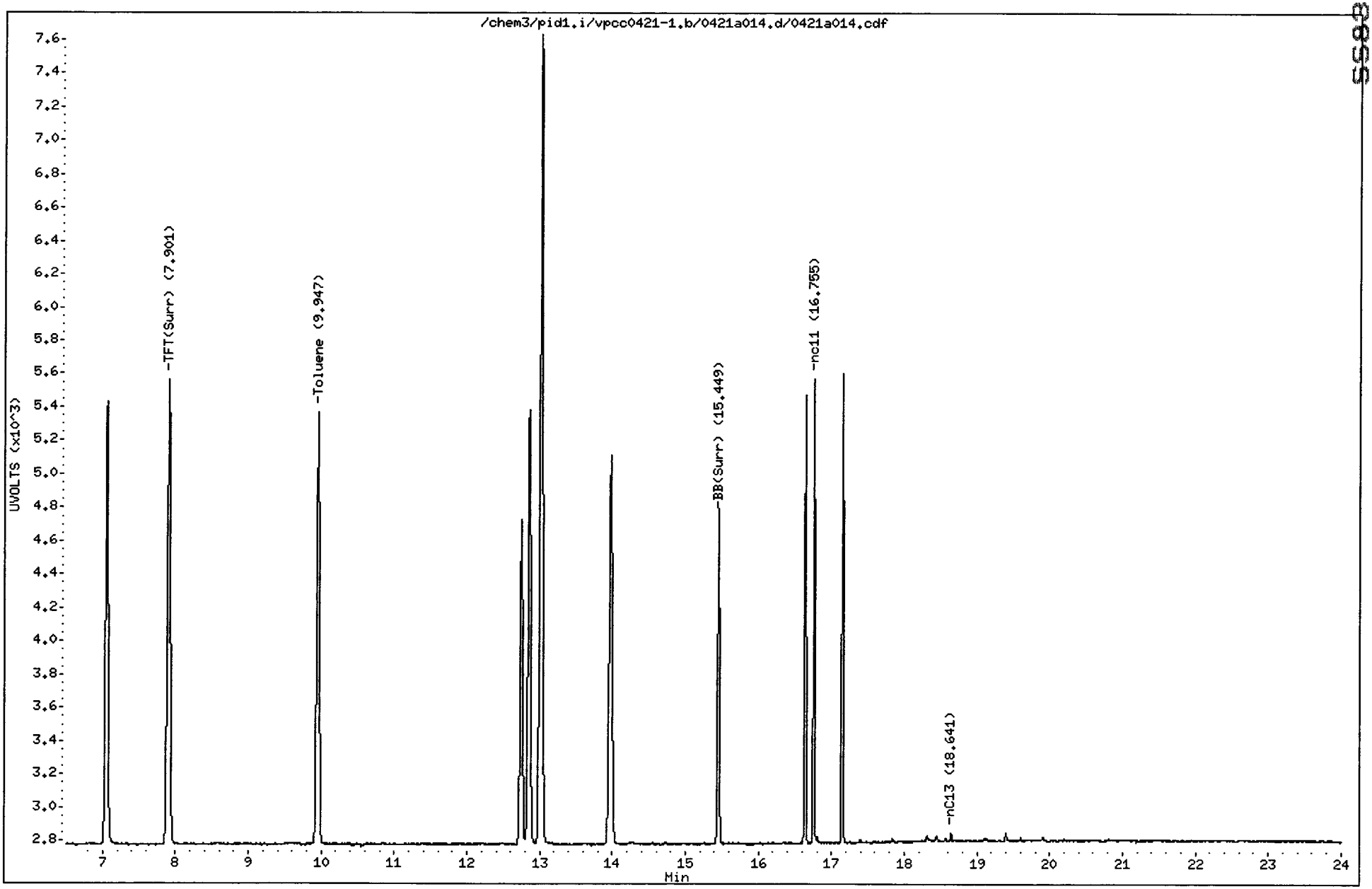
Sample Info: BCAL 2

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a014.d

Date : 21-APR-2011 12:08

Client ID:

Sample Info: BCAL 2

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1551

S583 : 01519

/chem3/pid1.i/vpcc0421-2.b/0421a014.d/0421a014.cdf

UVOLTS (x10^4)

-MTBE (4.526)

-Benzene (7.048)

-TFT(Surr) (7.899)

-Toluene (9.945)

-Ethylbenzene (12.850)

M/P-Xylene (13.011)

-O-Xylene (13.969)

-BB(Surr) (15.449)

Min

4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a015.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a015.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: GCAL 2
Client ID:
Injection Date: 21-APR-2011 12:37
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.003	3070	53557	108.5	TFT(Surr)
15.447	-0.003	2058	18615	98.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	880530	2.350 M
8015B 2MP-TMB	(4.16 to 16.26)	747017	1824390	2.442 M
AK101 nC6-nC10	(4.66 to 15.16)	604063	1468806	2.432 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	931537	2.309 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
7.898	-0.002	6585	101.1	TFT(Surr)
15.447	-0.003	13293	98.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.059	0.004	3358	7.66	Benzene
9.945	-0.001	35549	90.91	Toluene
12.848	-0.003	9077	26.57	Ethylbenzene
13.013	0.001	35981	97.98	M/P-Xylene
13.968	-0.003	12763	44.57	O-Xylene
4.530	0.000	712	4.19	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a015.d

Date : 21-APR-2011 12:37

Client ID:

Sample Info: GCAL 2

Column phase: RTX 502-2 FID

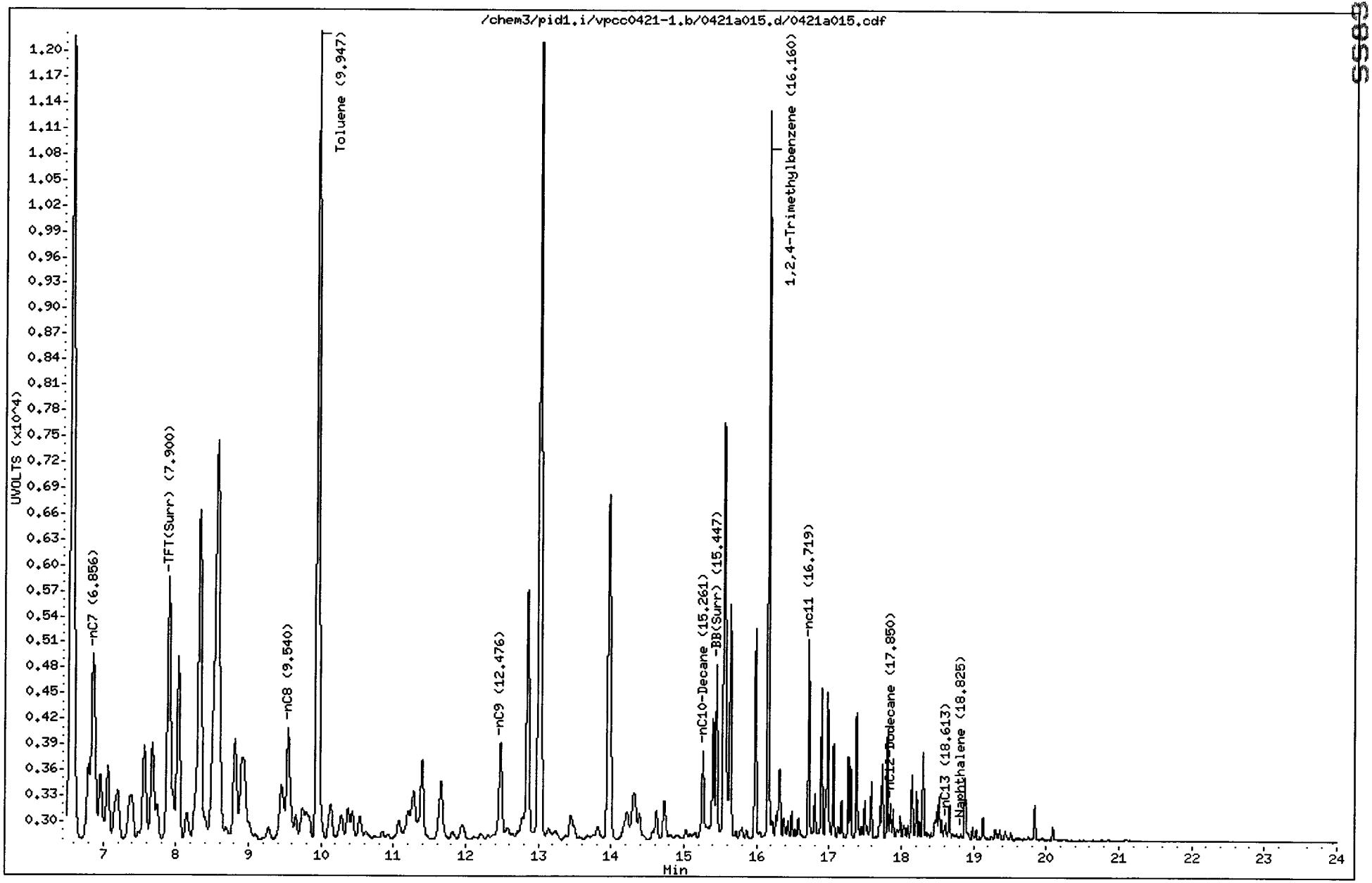
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1553

SS83 : 61559



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a015.d

Date : 21-APR-2011 12:37

Client ID:

Sample Info: GCAL 2

Column phase: RTX 502-2 PID

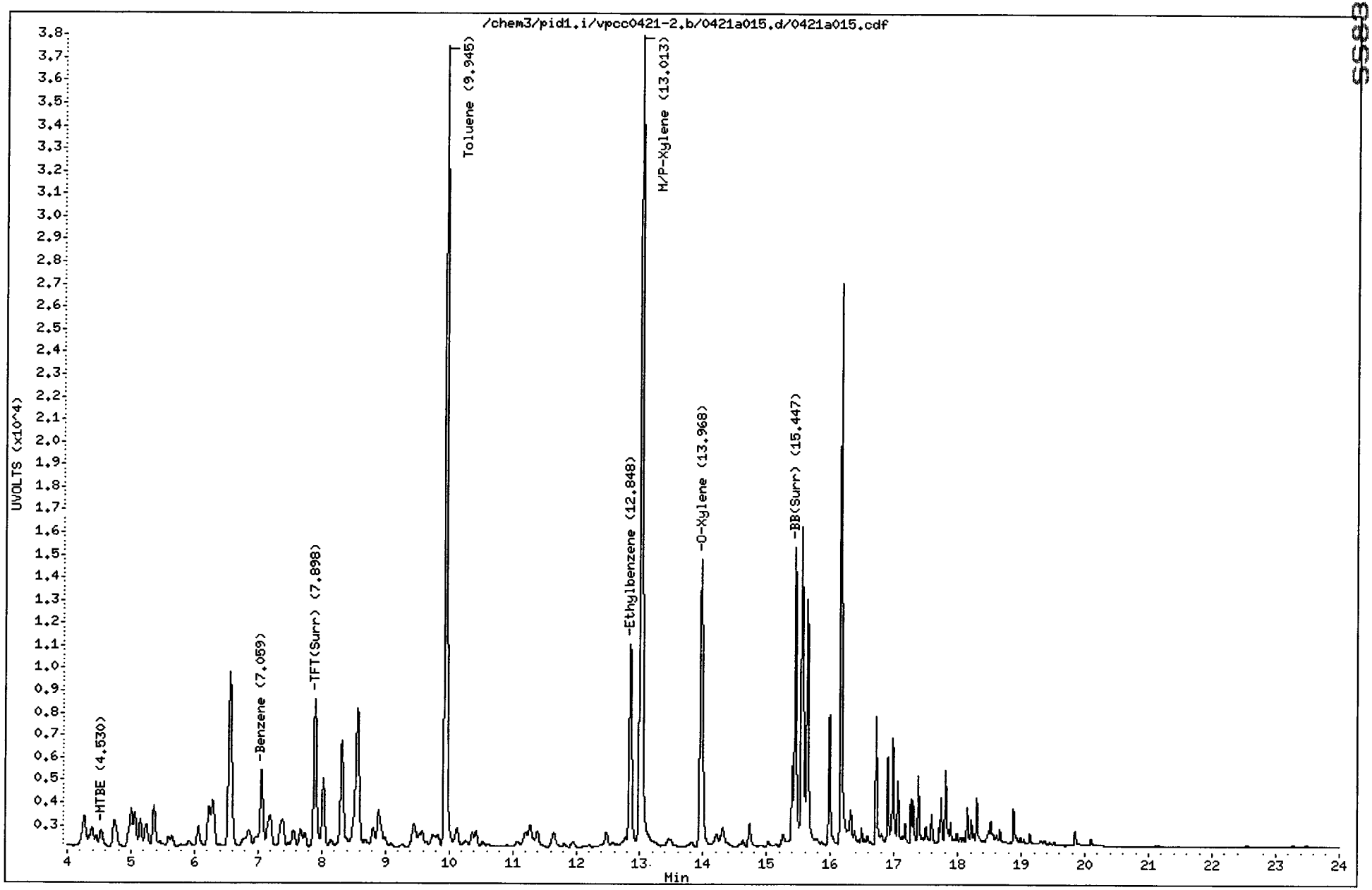
Instrument: pid1.i

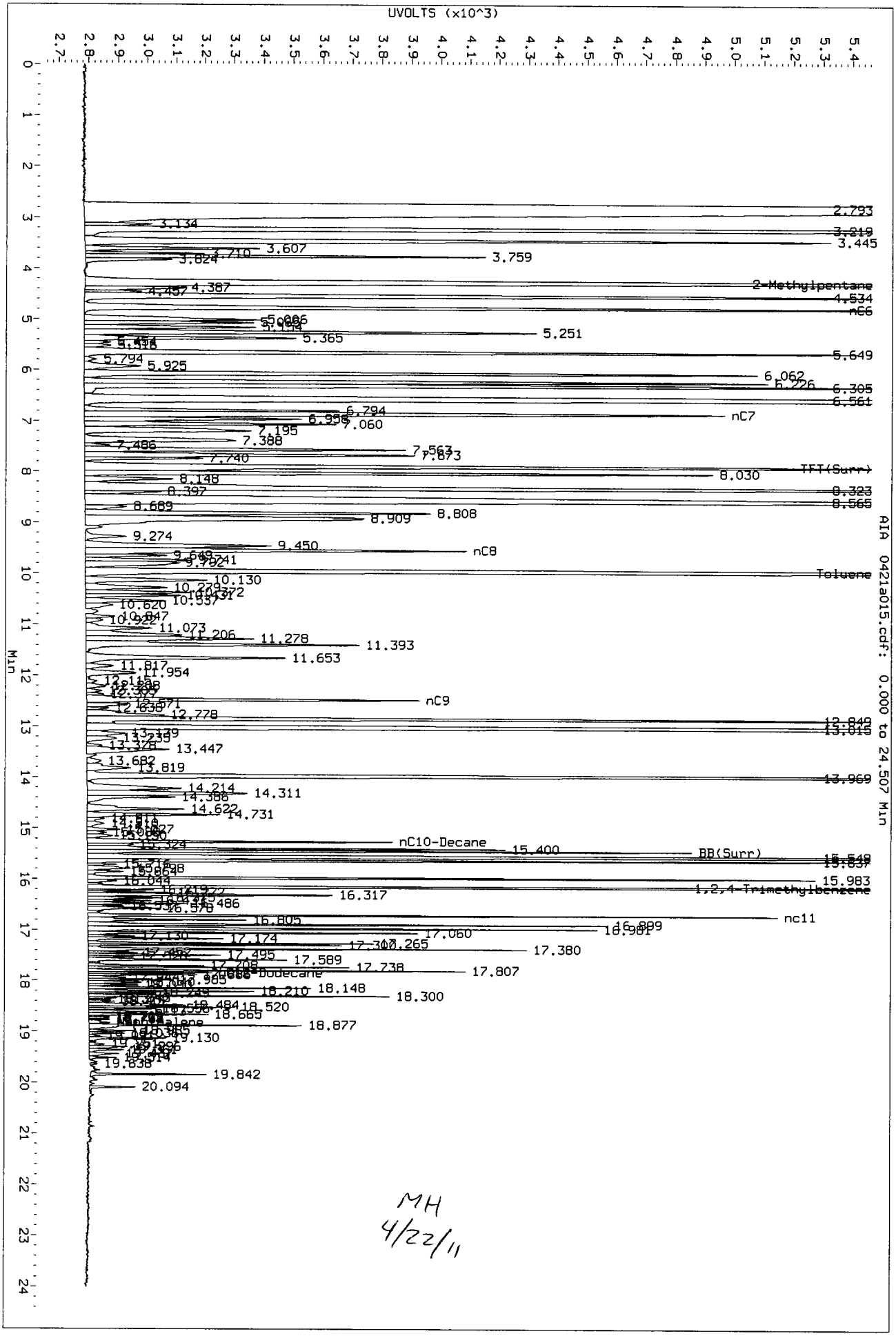
Operator: MH

Column diameter: 0.18

1554

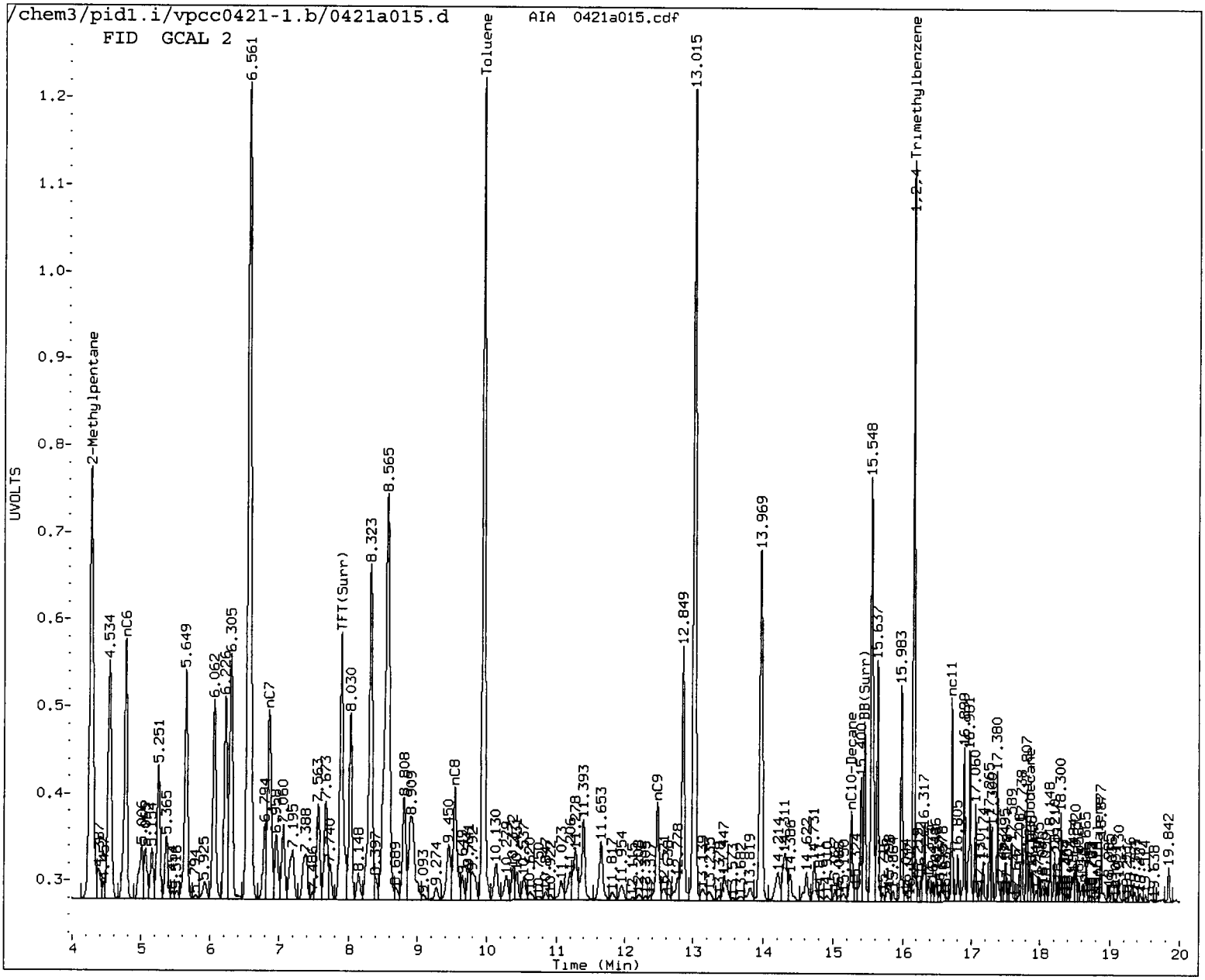
SSB 01551





Data File: /chem3/pid1.i/vpcc0421-1.b/0421a015.d/0421a015.cdf
Injection Date: 21-APR-2011 12:37
Instrument: pid1.i
Client Sample ID:

MH
4/22/11



MANUAL INTEGRATION

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

5. Other _____

Analyst: MH Date: 4/22/11

4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a016.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a016.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83E
Client ID: DMA-TP2-3-4-041911
Injection Date: 21-APR-2011 13:06
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.002	2652	36268	93.7	TFT(Surr)
15.449	-0.001	1920	16680	92.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	49320	0.132 M
8015B 2MP-TMB	(4.16 to 16.26)	747017	40526	0.054 M
AK101 nC6-nC10	(4.66 to 15.16)	604063	33270	0.055 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	54279	0.135 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
7.898	-0.002	6007	92.2	TFT(Surr)
15.449	-0.001	12478	92.6	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/vpcc0421-1.b/0421a016.d

Date : 21-APR-2011 13:06

Client ID: DMA-TP2-3-4-041911

Sample Info: SS83E

Column phase: RTX 502-2 FID

Instrument: pid1.i

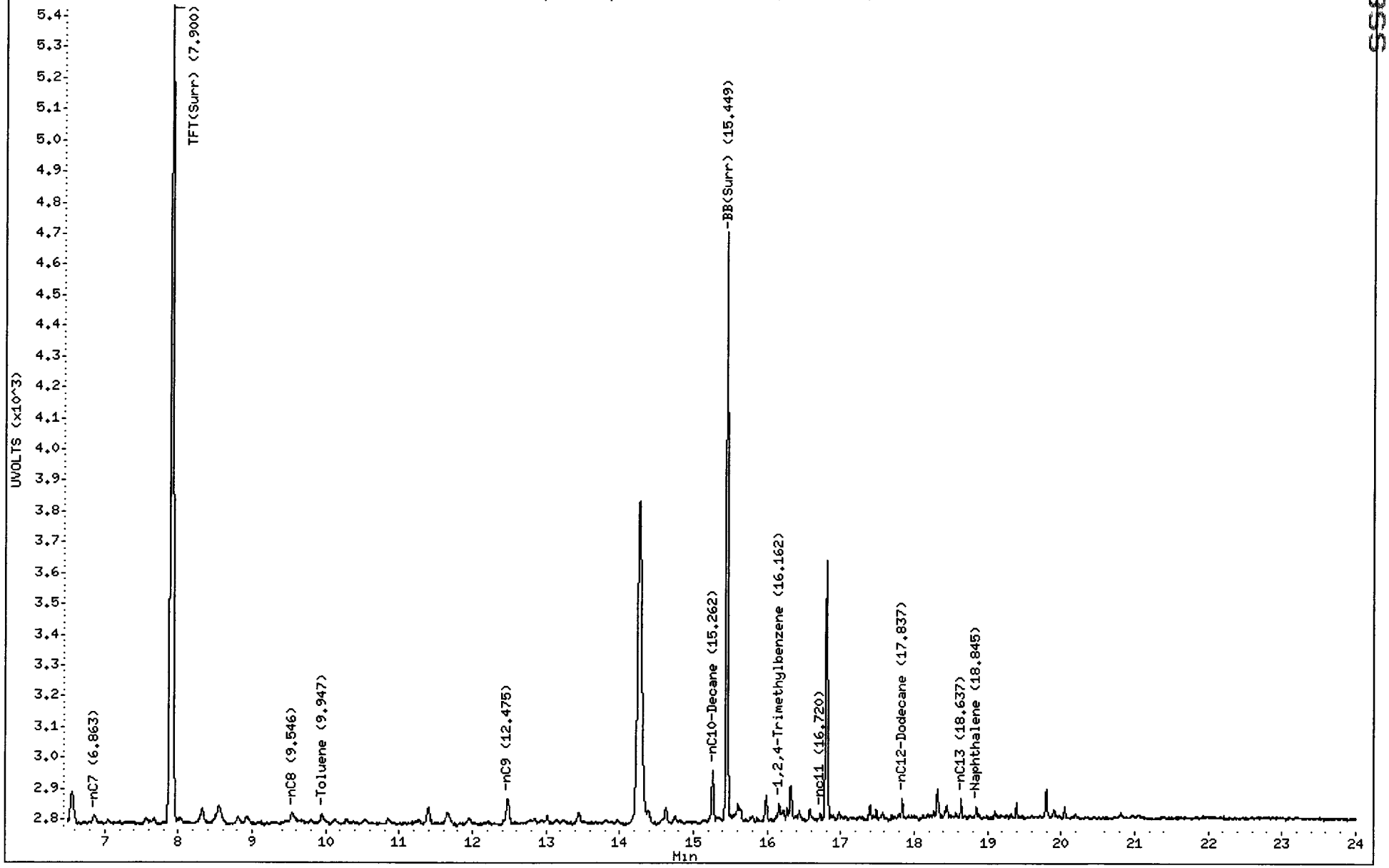
Operator: MH

Column diameter: 0.18

1558

SS83 : 01555

/chem3/pid1.i/vpcc0421-1.b/0421a016.d/0421a016.cdf



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a016.d
Date : 21-APR-2011 13:06
Client ID: DMA-TP2-3-4-041911
Sample Info: SS83E

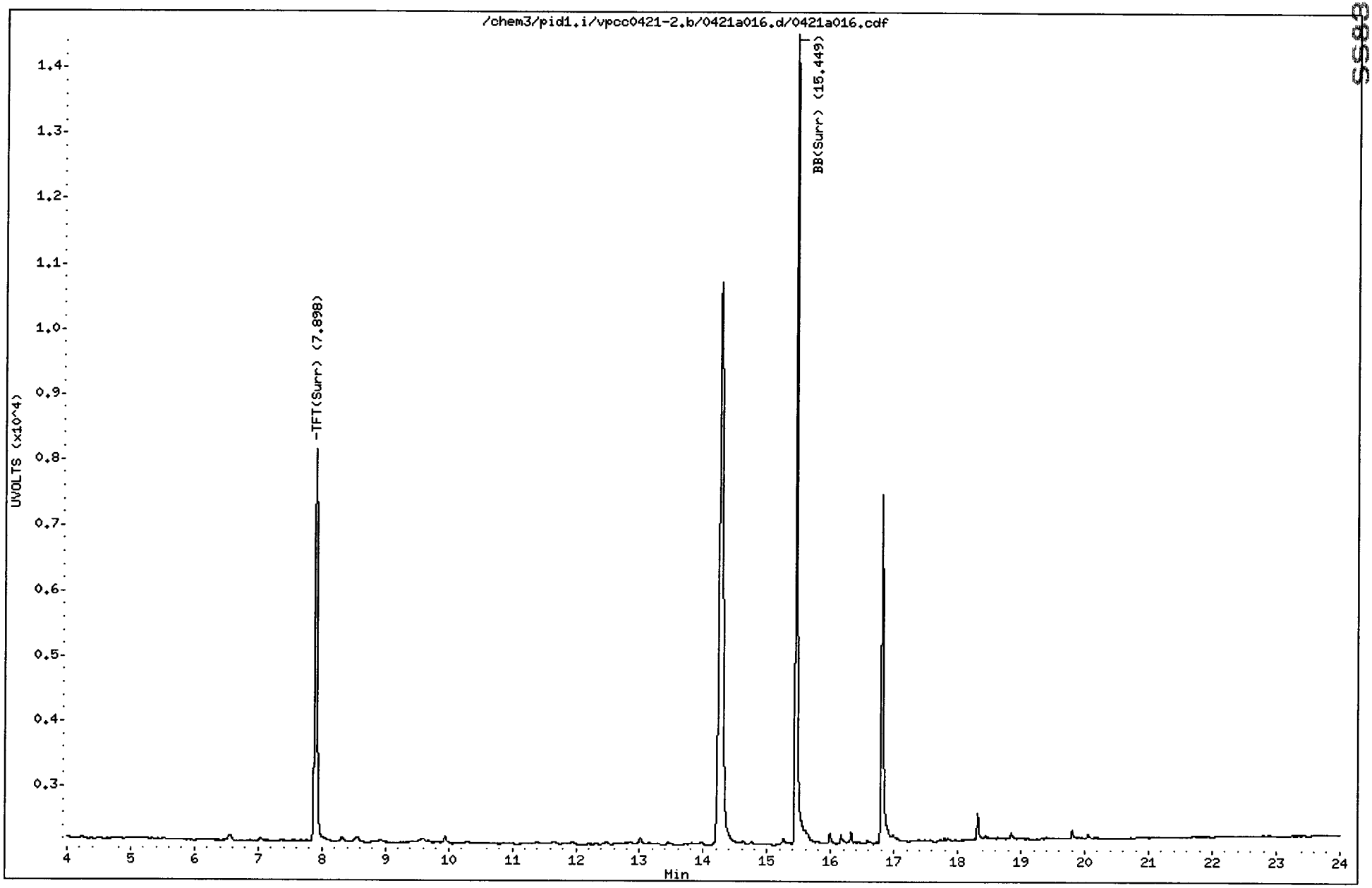
Column phase: RTX 502-2 PID

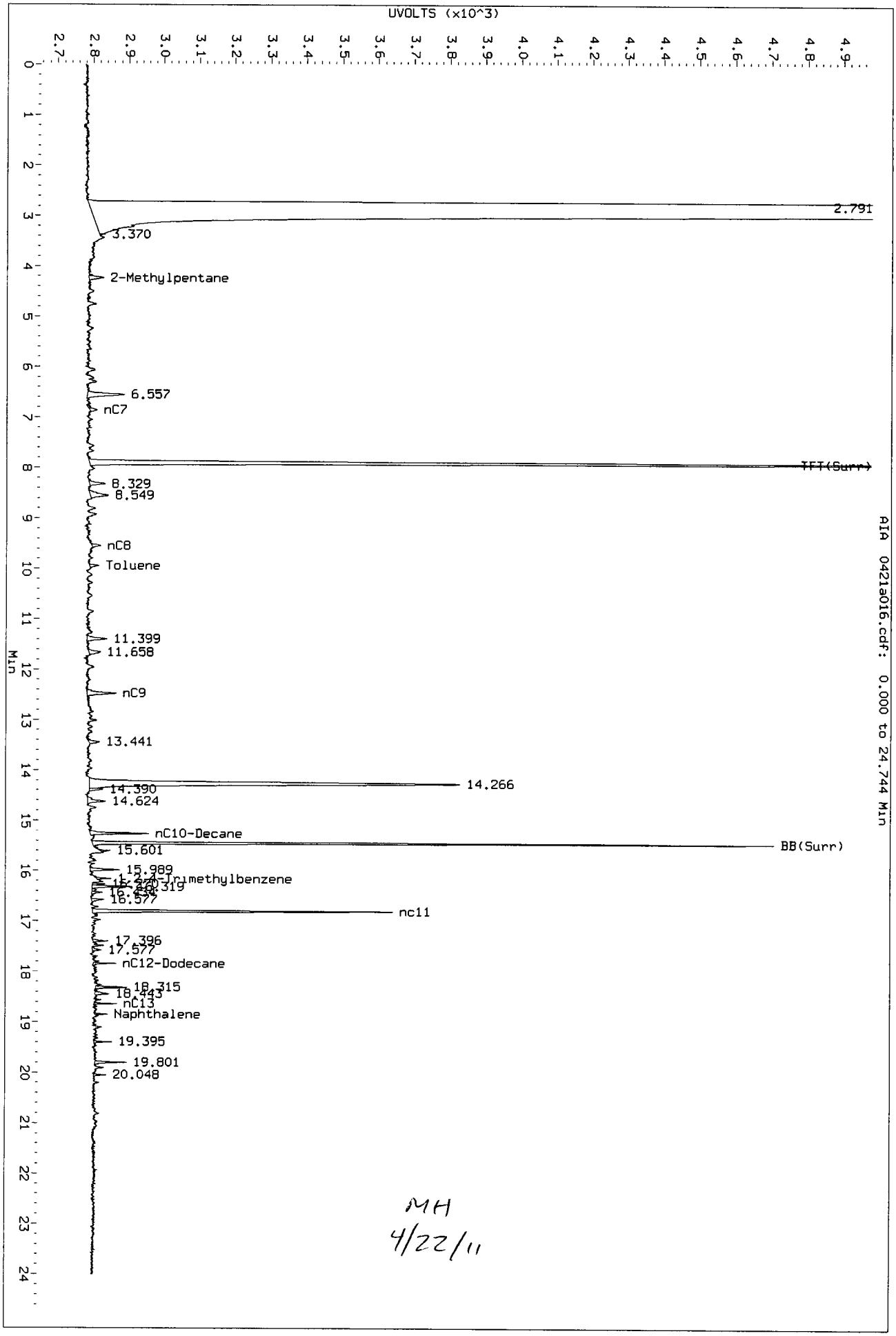
Instrument: pid1.i

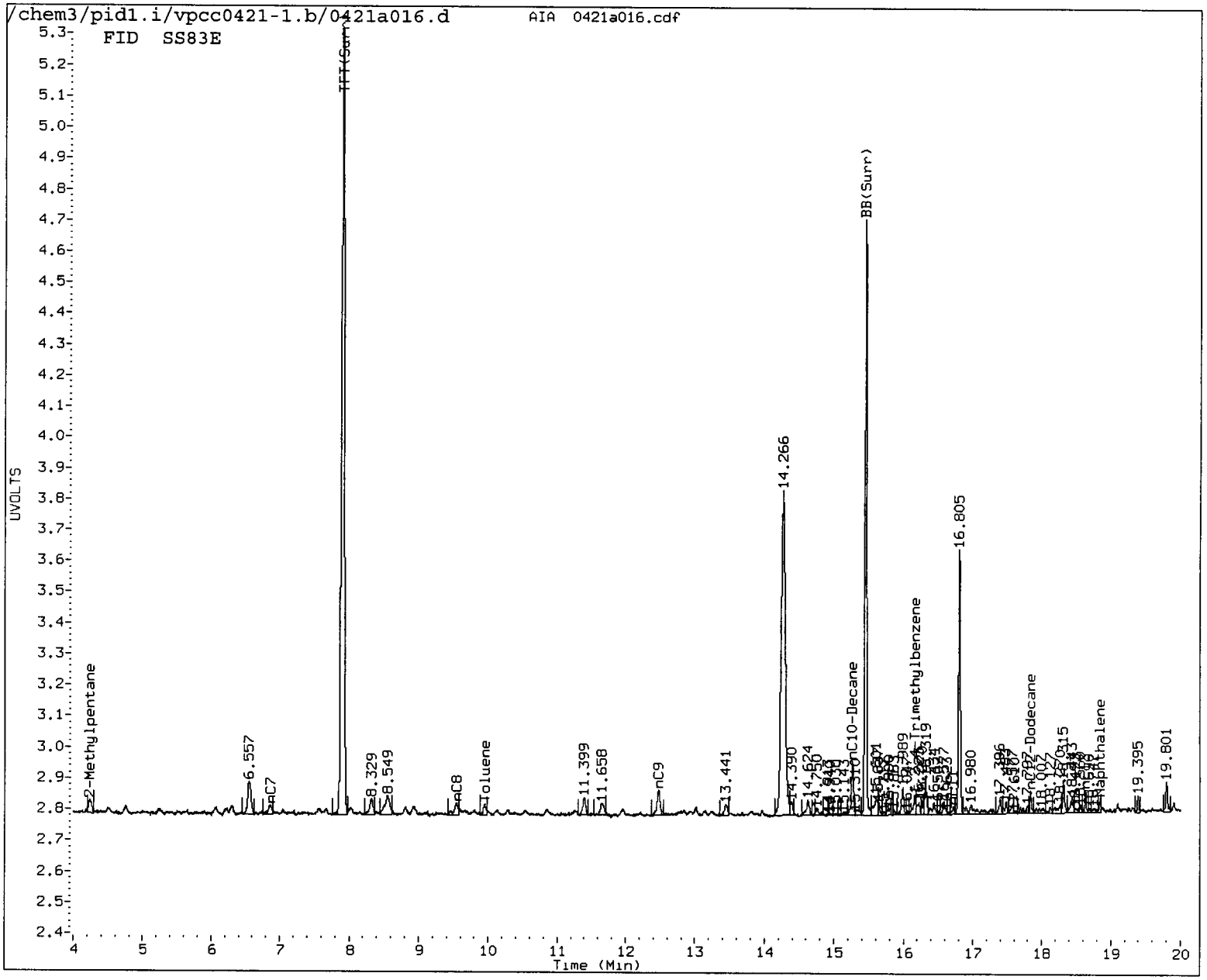
Operator: MH
Column diameter: 0.18

1559

SS83 : 01556




Data File: /chem3/pid1.i/vpcc0421-1.b/0421a016.d/0421a016.cdf
Injection Date: 21-APR-2011 13:06
Instrument: pid1.i
Client Sample ID: DMA-TP2-3-4-041911
UVOLTS (x10^3)
Min
AIA 0421a016.cdf: 0.000 to 24.744 Min
2.791
3.370
2-Methylpentane
6.557
nC7
TFT(Surr)
8.329
8.549
nC8
Toluene
11.399
11.658
nC9
13.441
14.266
14.390
14.624
nC10-Decane
BB(Surr)
15.601
15.989
1,2,4-Trimethylbenzene
16.319
16.577
nc11
17.396
17.577
nC12-Dodecane
18.315
18.443
nC13
Naphthalene
19.395
19.801
20.048
MH
4/22/11



MANUAL INTEGRATION

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

5. Other _____

Analyst: MH Date: 4/22/11

MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a017.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a017.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83F
Client ID: DMA-TP6-0-2.5-04191
Injection Date: 21-APR-2011 13:36
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.002	2757	37312	97.5	TFT(Surr)
15.449	-0.001	2006	16832	96.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	5716	0.015
8015B 2MP-TMB	(4.16 to 16.26)	747017	3654	0.005
AK101 nC6-nC10	(4.66 to 15.16)	604063	3653	0.006
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	7447	0.018

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
7.898	-0.002	6233	95.7	TFT(Surr)
15.449	-0.001	12973	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/vpcc0421-1.b/0421a017.d

Date : 21-APR-2011 13:36

Client ID: DMA-TP6-0-2.5-04191

Sample Info: SS83F

Column phase: RTX 502-2 FID

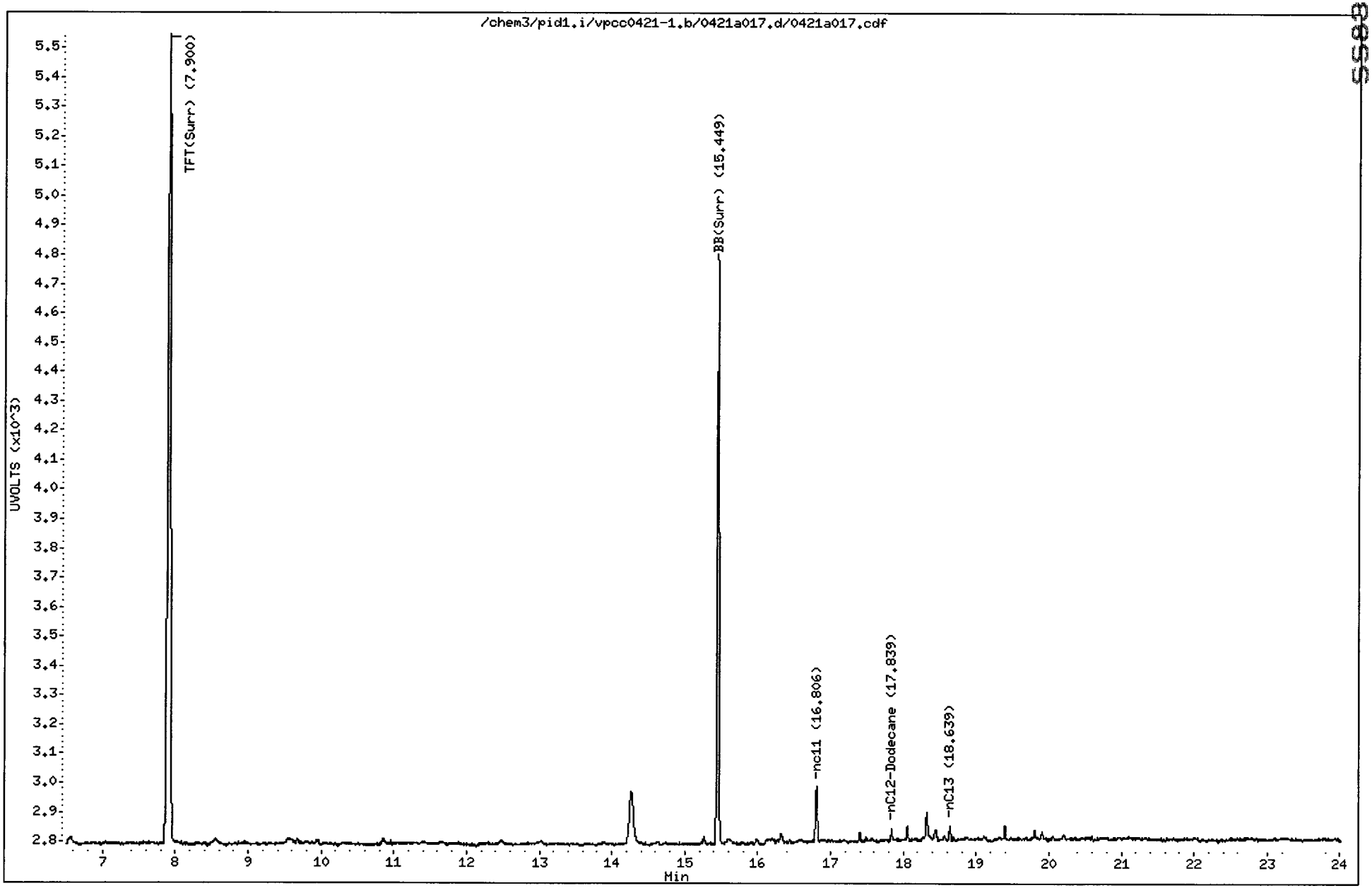
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1563

SS83 : 015690



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a017.d

Date : 21-APR-2011 13:36

Client ID: DMA-TP6-0-2.5-04191

Sample Info: SS83F

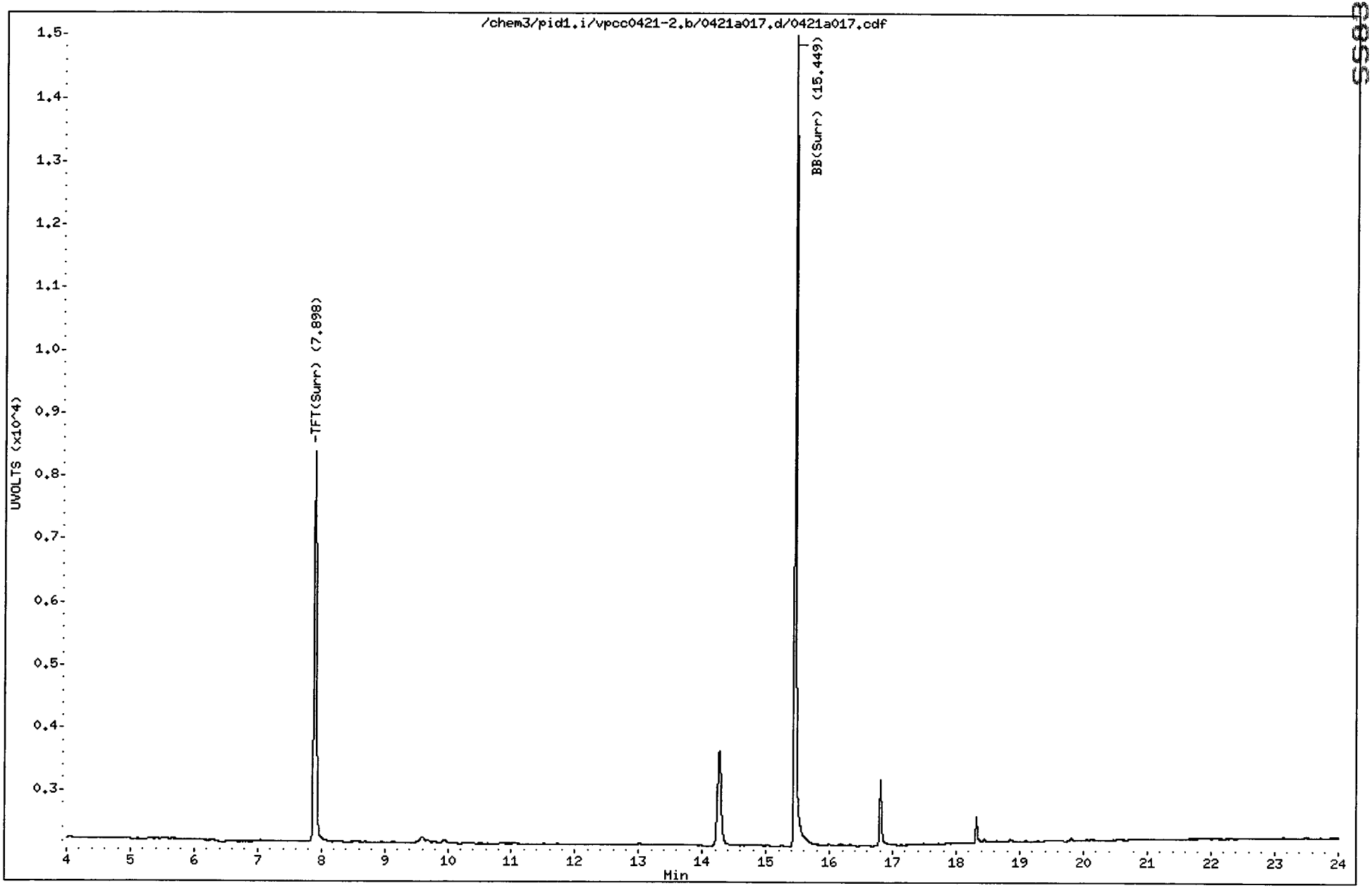
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

SS83 61561 1564



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a018.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a018.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83G
Client ID: DMA-TP6-2.5-5-04191
Injection Date: 21-APR-2011 14:05
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.002	2750	37032	97.2	TFT(Surr)
15.449	-0.001	2014	16790	96.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	2286	0.006
8015B 2MP-TMB	(4.16 to 16.26)	747017	994	0.001
AK101 nC6-nC10	(4.66 to 15.16)	604063	994	0.002
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	3998	0.010

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
7.898	-0.002	6218	95.5	TFT(Surr)
15.449	-0.001	12987	96.3	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/vpcc0421-1.b/0421a018.d

Date : 21-APR-2011 14:05

Client ID: DMA-TP6-2.5-5-04191

Sample Info: SS83G

Column phase: RTX 502-2 FID

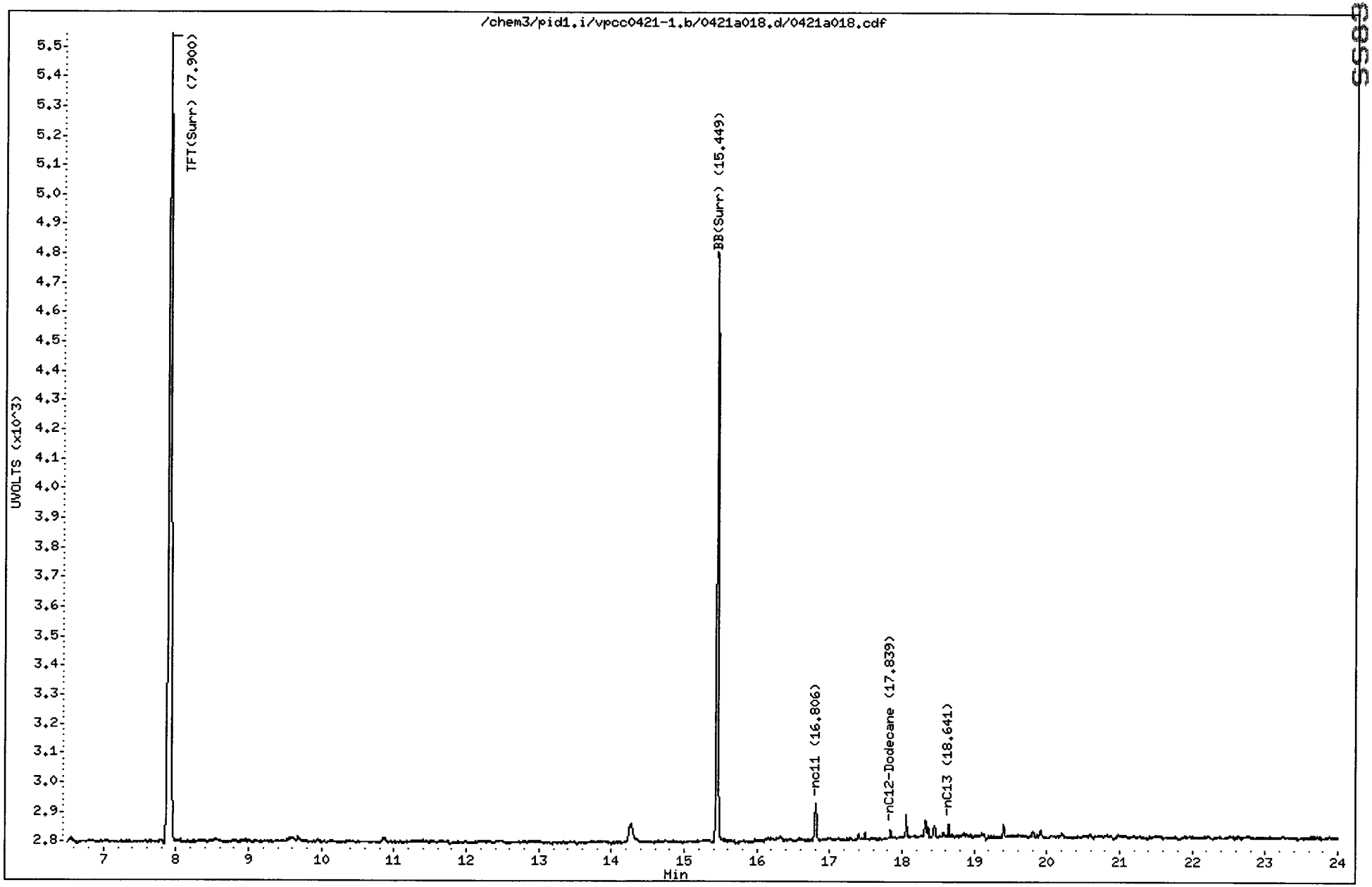
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1566

SS83 : 01563



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a018.d

Date : 21-APR-2011 14:05

Client ID: DMA-TP6-2.5-5-04191

Sample Info: SS83G

Column phase: RTX 502-2 PID

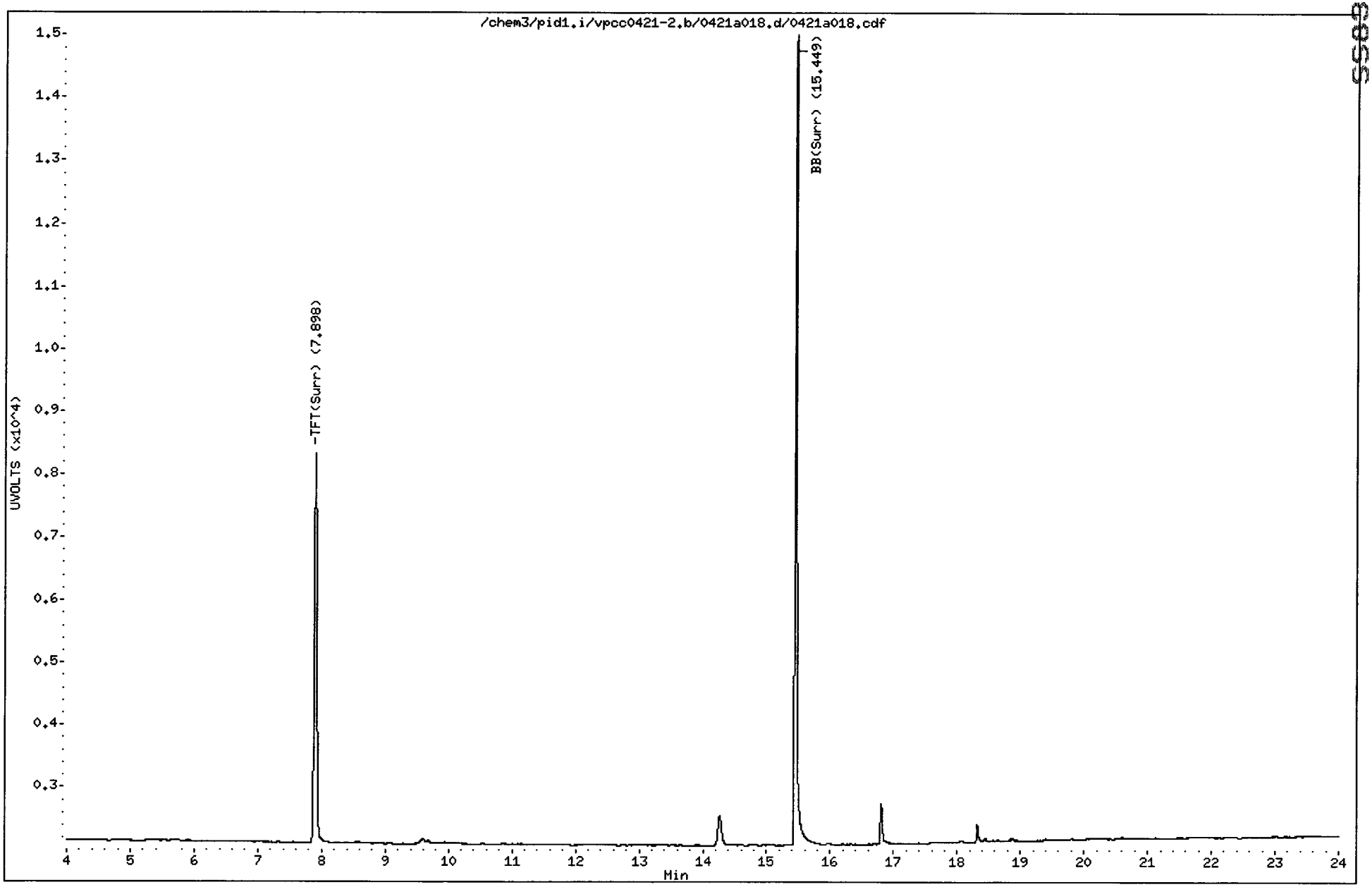
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1567

SS83-01561



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a019.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a019.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83H
Client ID: DMA-TP4-0-1.5-04201
Injection Date: 21-APR-2011 14:34
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.899	-0.003	2726	36899	96.4	TFT(Surr)
15.447	-0.003	2003	16620	96.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	964	0.003
8015B 2MP-TMB	(4.16 to 16.26)	747017	1	0.000
AK101 nC6-nC10	(4.66 to 15.16)	604063	1	0.000
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	2001	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
7.897	-0.003	6146	94.4	TFT(Surr)
15.447	-0.003	12874	95.5	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/vpcc0421-1.b/0421a019.d

Date : 21-APR-2011 14:34

Client ID: DMA-TP4-0-1.5-04201

Sample Info: SS83H

Column phase: RTX 502-2 FID

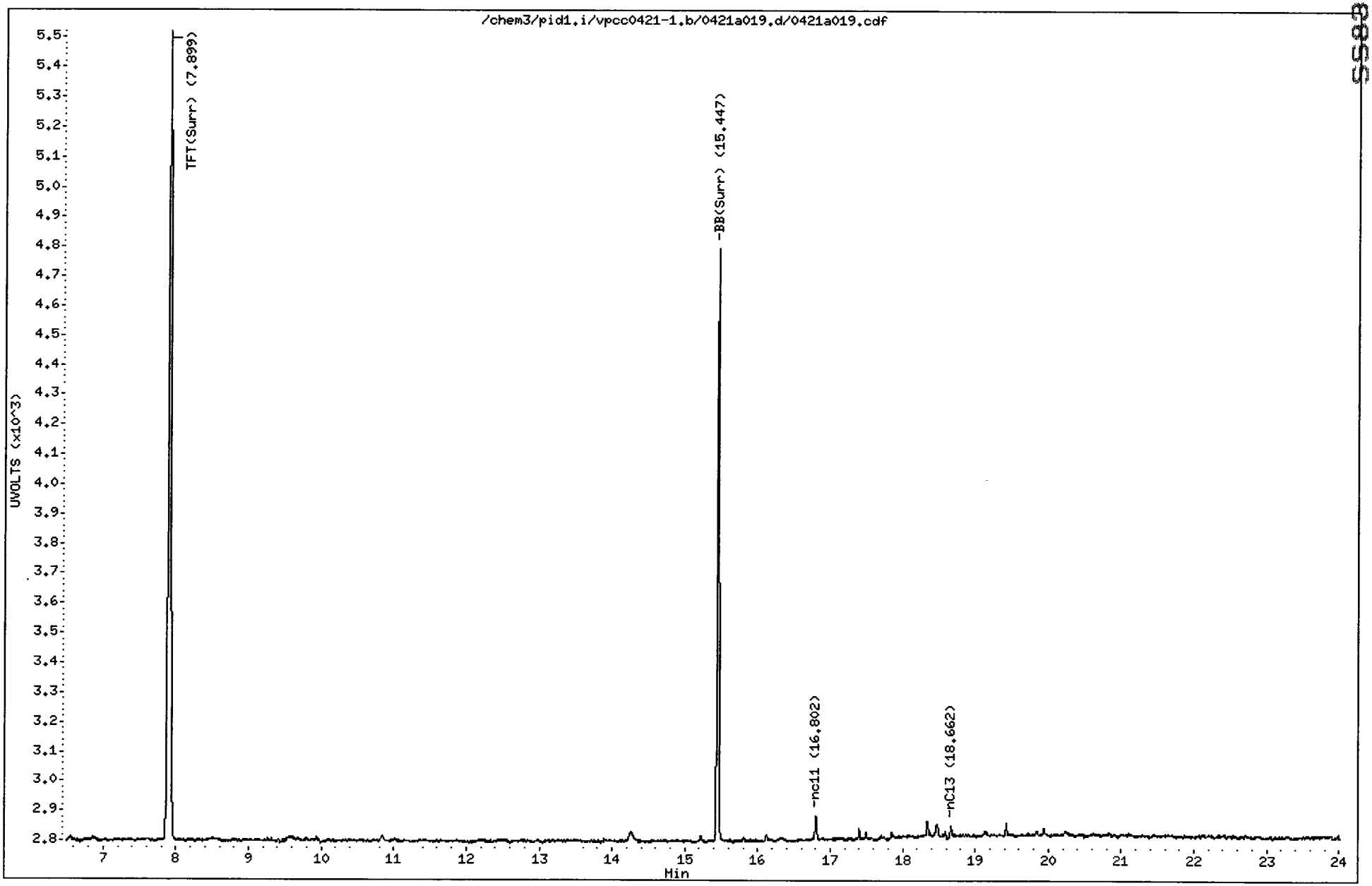
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1569

SS83 01566



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a019.d

Date : 21-APR-2011 14:34

Client ID: DMA-TP4-0-1.5-04201

Sample Info: SS83H

Column phase: RTX 502-2 PID

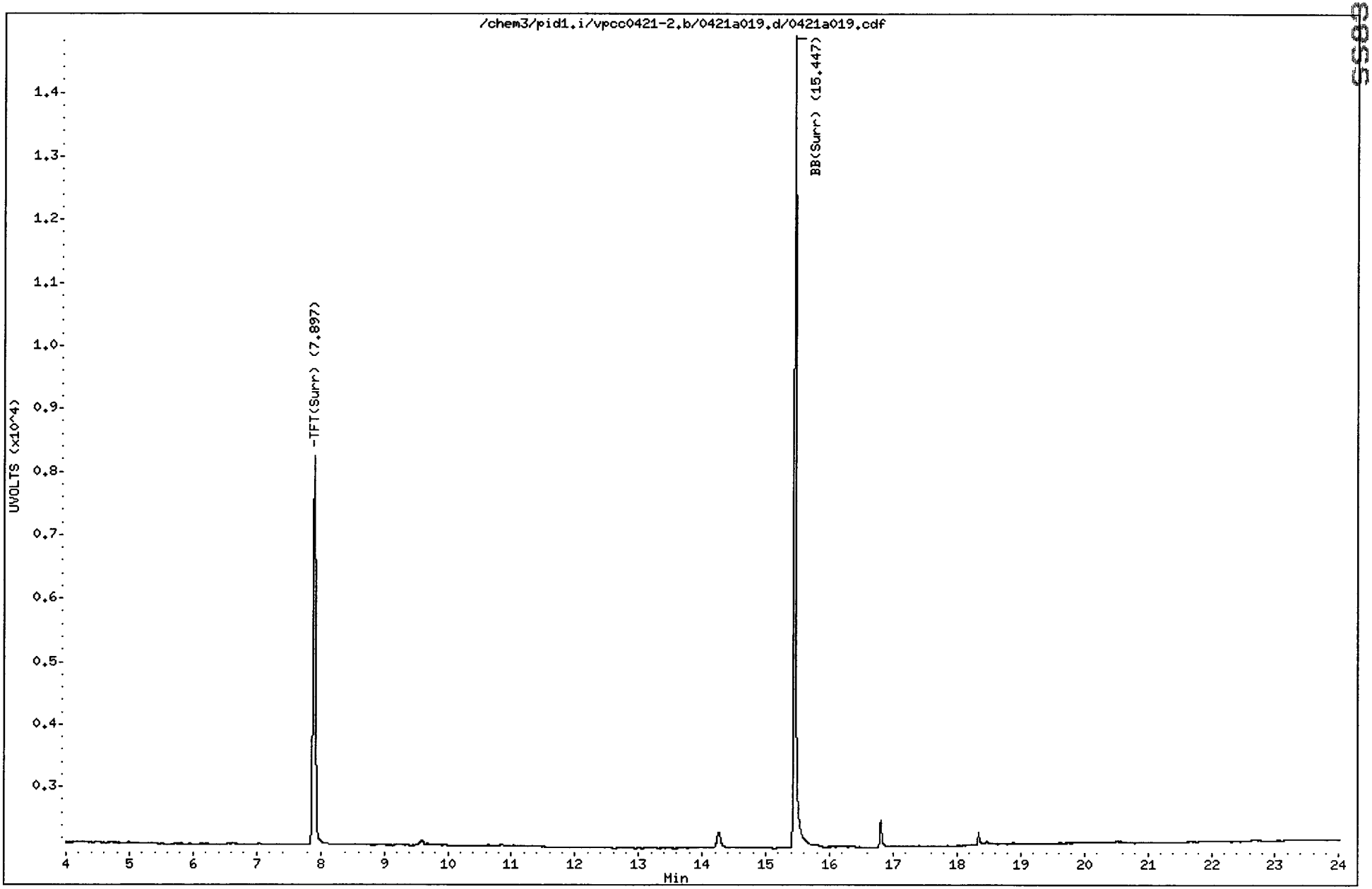
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1570

SS83 : 01567



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a020.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a020.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83I
Client ID: DMA-TP4-1.5-2-04201
Injection Date: 21-APR-2011 15:03
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.899	-0.003	2765	37149	97.7	TFT(Surr)
15.447	-0.002	2000	16945	95.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	545	0.001
8015B 2MP-TMB	(4.16 to 16.26)	747017	1	0.000
AK101 nC6-nC10	(4.66 to 15.16)	604063	0	0.000
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	1487	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
7.897	-0.003	6253	96.0	TFT(Surr)
15.447	-0.003	12996	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/vpcc0421-1.b/0421a020.d

Date : 21-APR-2011 15:03

Client ID: DMA-TP4-1.5-2-04201

Sample Info: SS83I

Column phase: RTX 502-2 FID

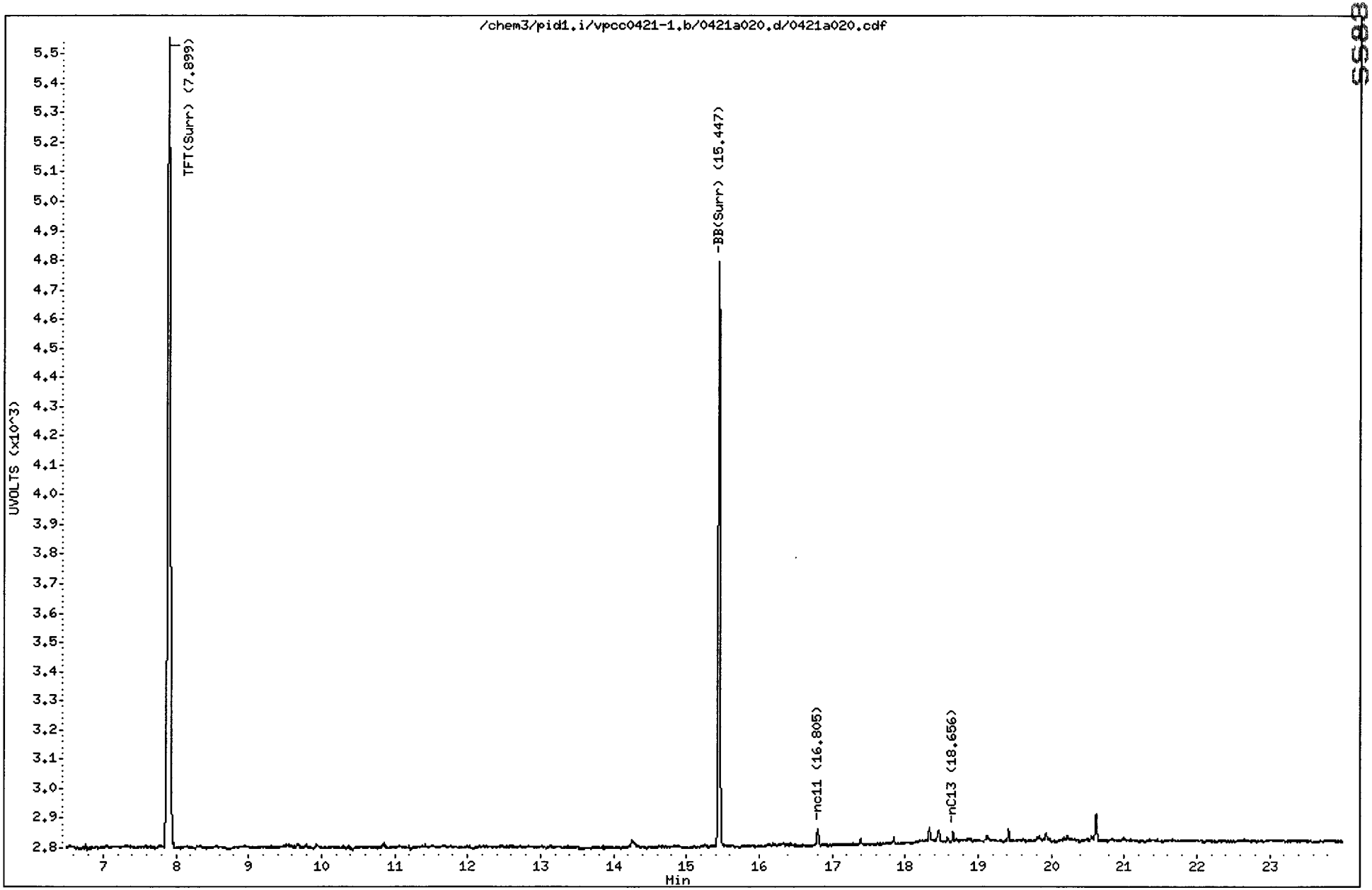
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

SS83 : 01569

1572



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a020.d

Date : 21-APR-2011 15:03

Client ID: DMA-TP4-1.5-2-04201

Sample Info: SS83I

Column phase: RTX 502-2 PID

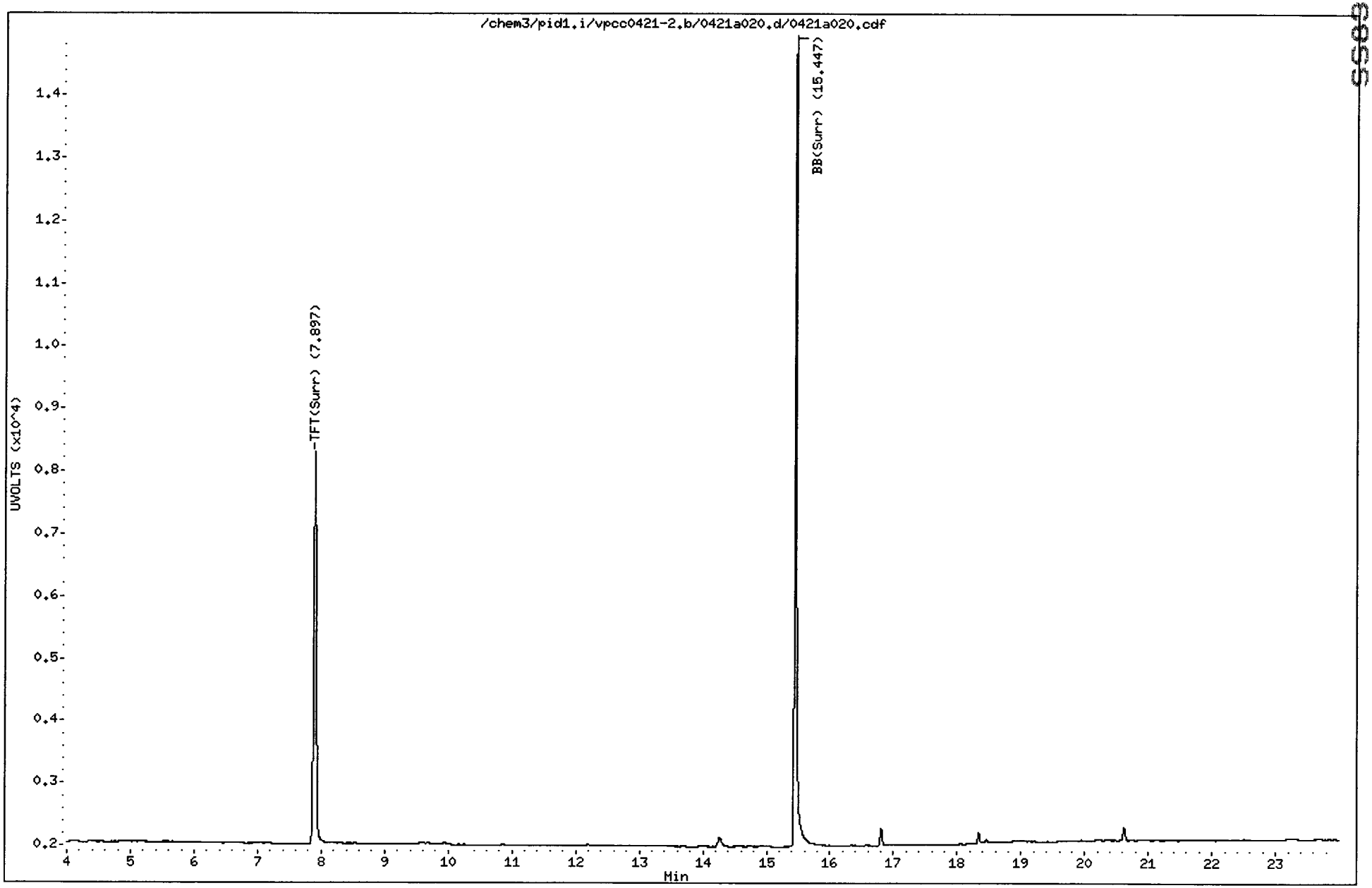
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1573

SS83 : 61570



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a021.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a021.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83J
Client ID: DMA-TP5-1.5-2-04201
Injection Date: 21-APR-2011 15:32
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.003	2756	37285	97.4	TFT(Surr)
15.449	-0.001	2033	17041	97.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	55969	0.149
8015B 2MP-TMB	(4.16 to 16.26)	747017	55567	0.074
AK101 nC6-nC10	(4.66 to 15.16)	604063	54983	0.091
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	57442	0.142

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
7.898	-0.003	6175	94.8	TFT(Surr)
15.448	-0.001	13075	97.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
9.944	-0.002	15860	40.56	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/vpcc0421-1.b/0421a021.d

Date : 21-APR-2011 15:32

Client ID: DMA-TP5-1.5-2-04201

Sample Info: SS83J

Column phase: RTX 502-2 FID

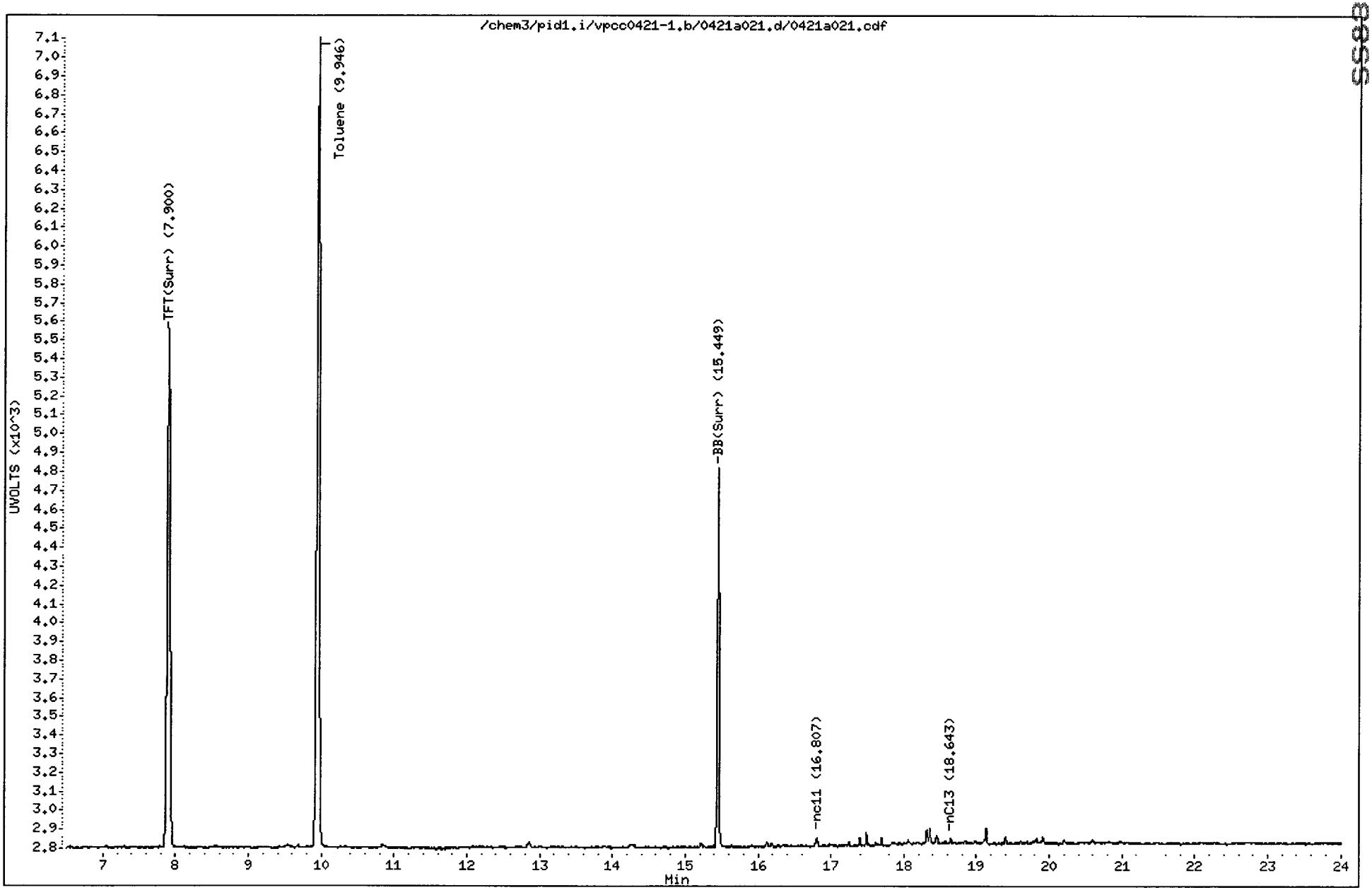
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

SS83 : 61572

1575



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a021.d

Date : 21-APR-2011 15:32

Client ID: DMA-TP5-1.5-2-04201

Sample Info: SS83J

Column phase: RTX 502-2 PID

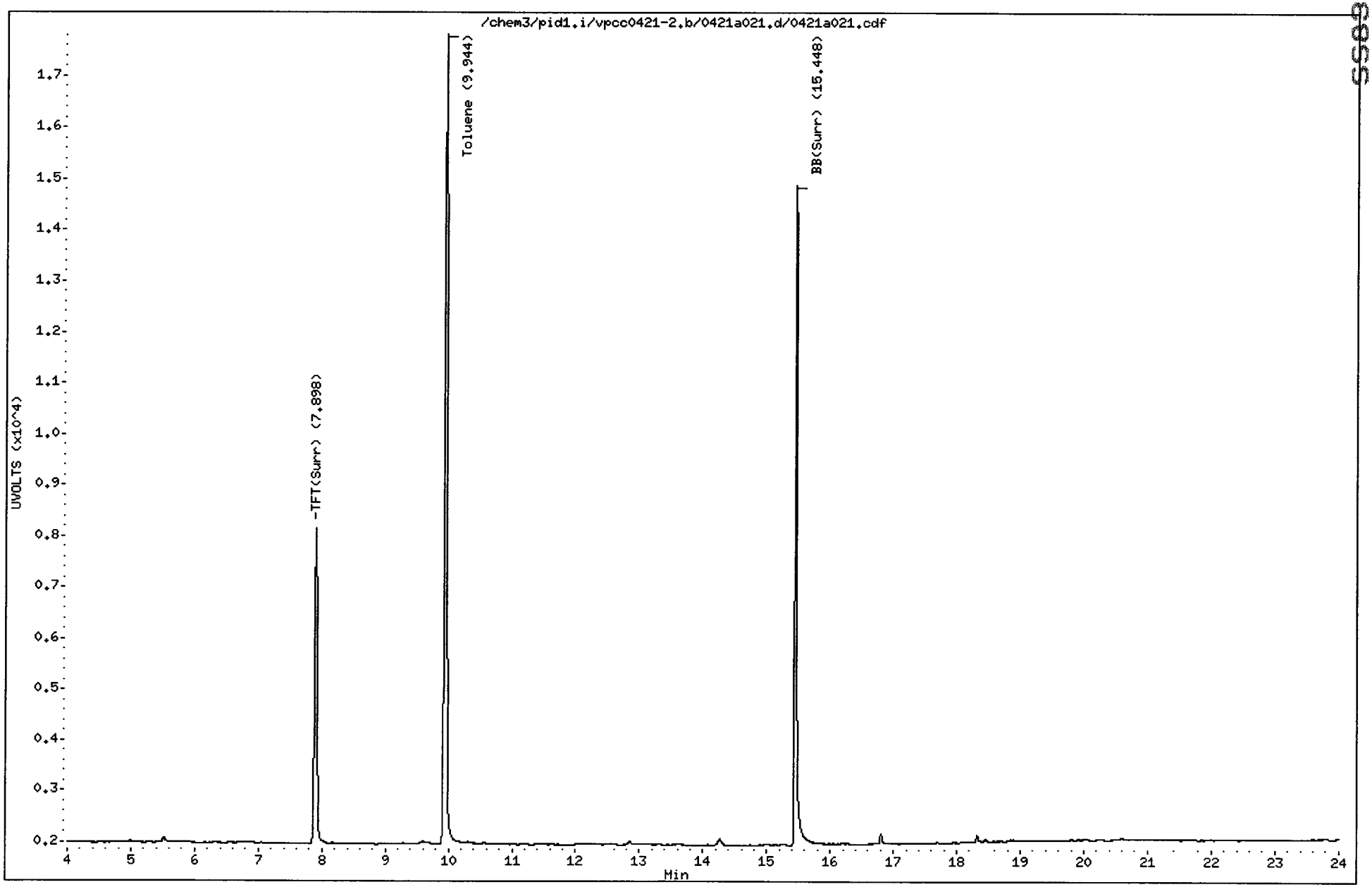
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1576

SS83-01573



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a022.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a022.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83K
Client ID: DMA-TP5-1.5-2-04201
Injection Date: 21-APR-2011 16:02
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.002	2689	36739	95.1	TFT(Surr)
15.448	-0.002	1973	16544	94.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	67469	0.180
8015B 2MP-TMB	(4.16 to 16.26)	747017	66637	0.089
AK101 nC6-nC10	(4.66 to 15.16)	604063	66000	0.109
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	69143	0.171

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
7.899	-0.002	6043	92.8	TFT(Surr)
15.449	-0.001	12737	94.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
9.945	-0.001	19064	48.76	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/vpcc0421-1.b/0421a022.d

Date : 21-APR-2011 16:02

Client ID: DMA-TP5-1.5-2-04201

Sample Info: SS83K

Column phase: RTX 502-2 FID

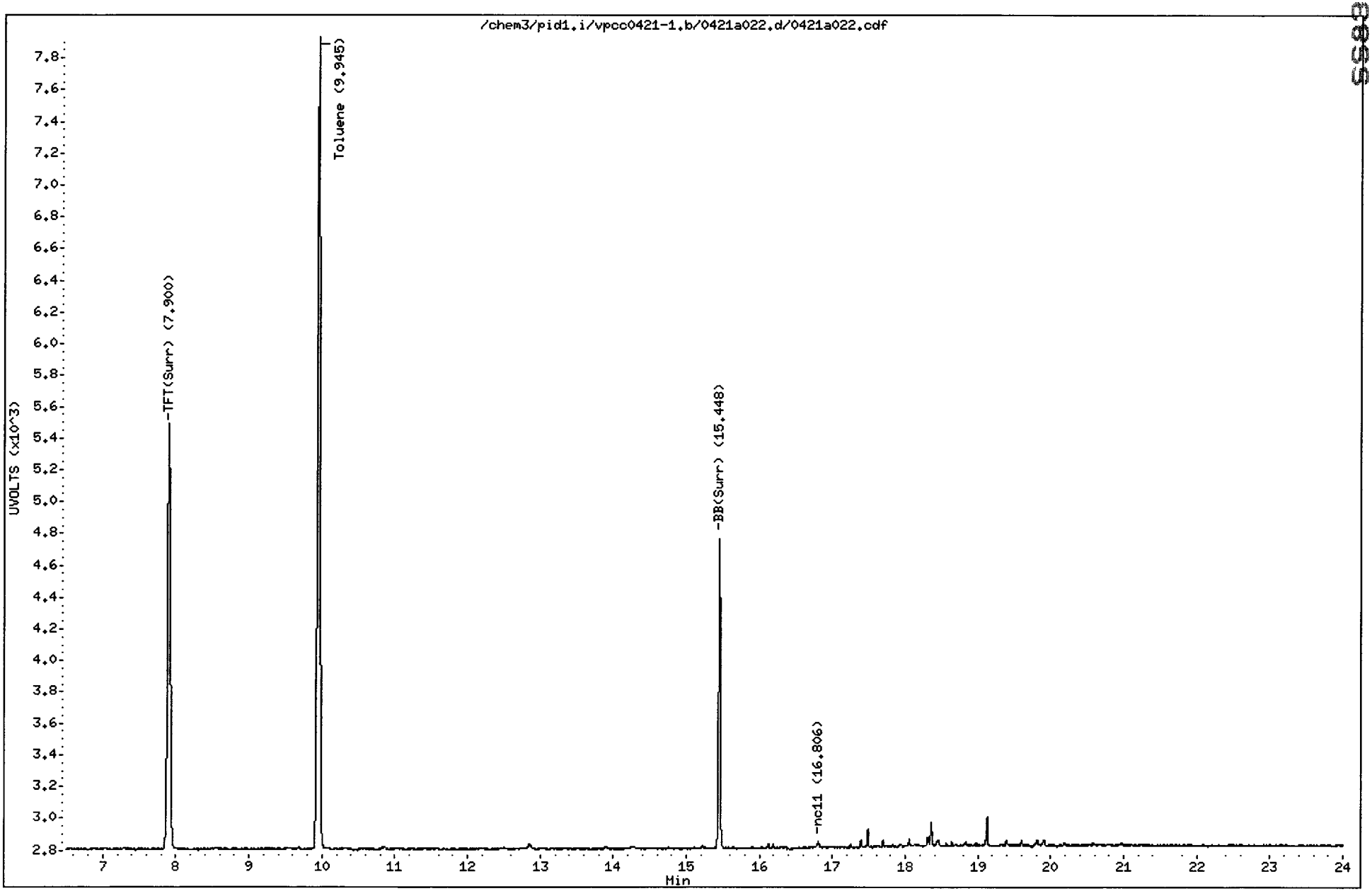
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

SS83 : 01575

1578



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a022.d

Date : 21-APR-2011 16:02

Client ID: DMA-TP5-1.5-2-04201

Sample Info: SS83K

Column phase: RTX 502-2 PID

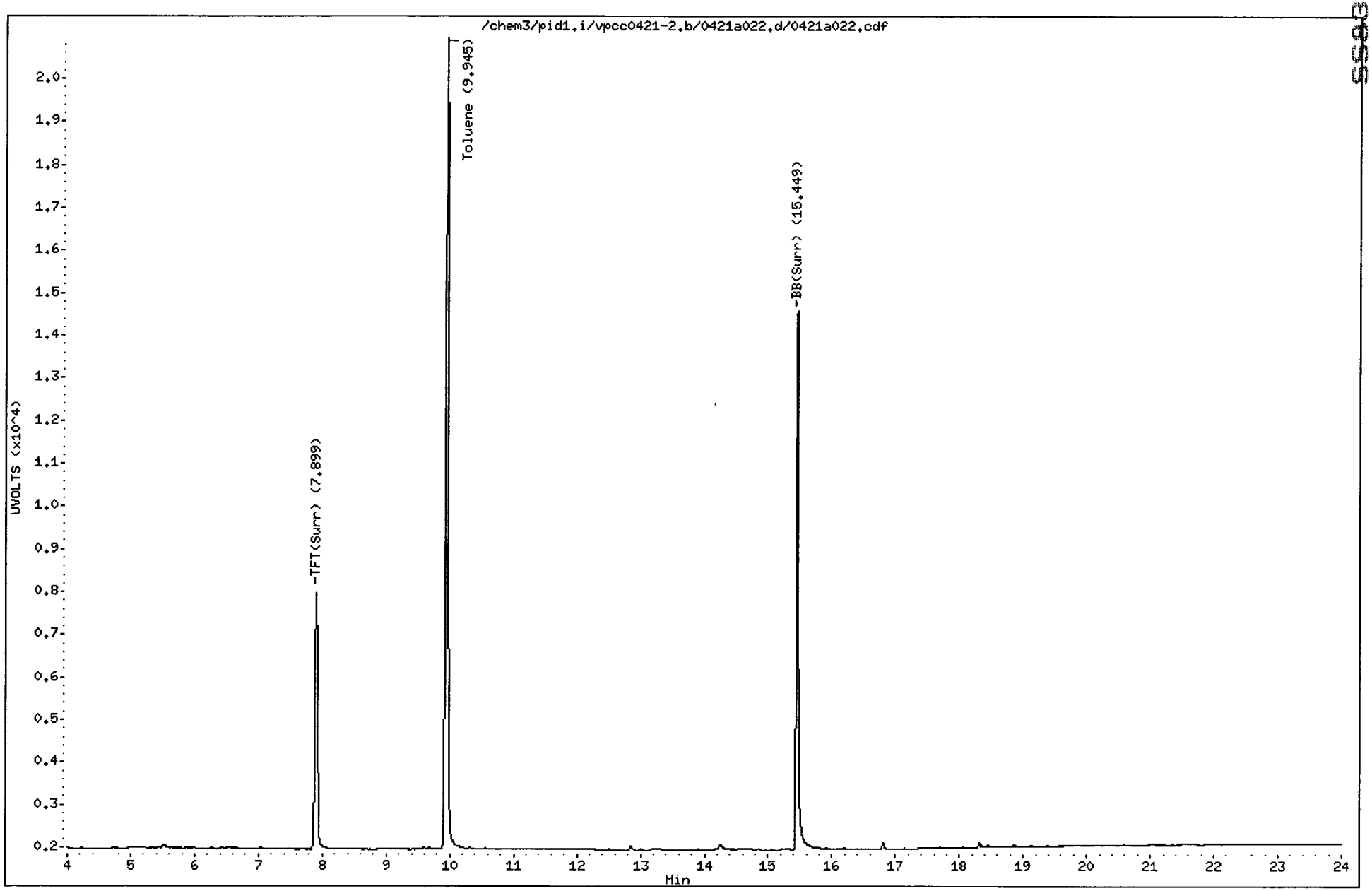
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1579

SS83-01576



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a023.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a023.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83L
Client ID: DMA-TP5-2-3-042011
Injection Date: 21-APR-2011 16:31
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.002	2690	36539	95.1	TFT(Surr)
15.447	-0.002	1971	16619	94.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	1640	0.004
8015B 2MP-TMB	(4.16 to 16.26)	747017	965	0.001
AK101 nC6-nC10	(4.66 to 15.16)	604063	964	0.002
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	2390	0.006

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
7.898	-0.002	6046	92.8	TFT(Surr)
15.447	-0.002	12829	95.2	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/vpcc0421-1.b/0421a023.d

Date : 21-APR-2011 16:31

Client ID: DMA-TP5-2-3-042011

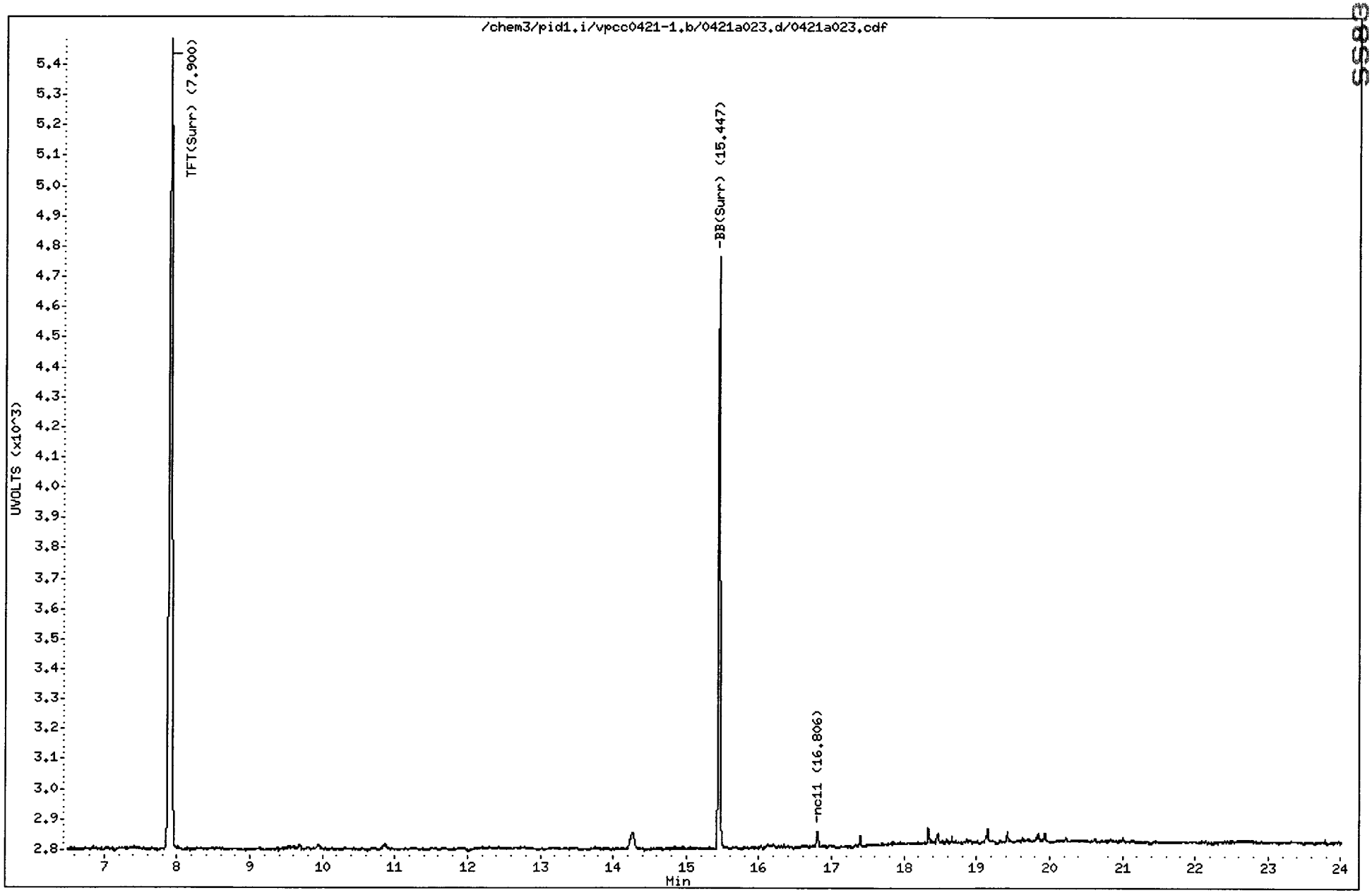
Sample Info: SS83L

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a023.d

Date : 21-APR-2011 16:31

Client ID: DMA-TP5-2-3-042011

Sample Info: SS83L

Column phase: RTX 502-2 PID

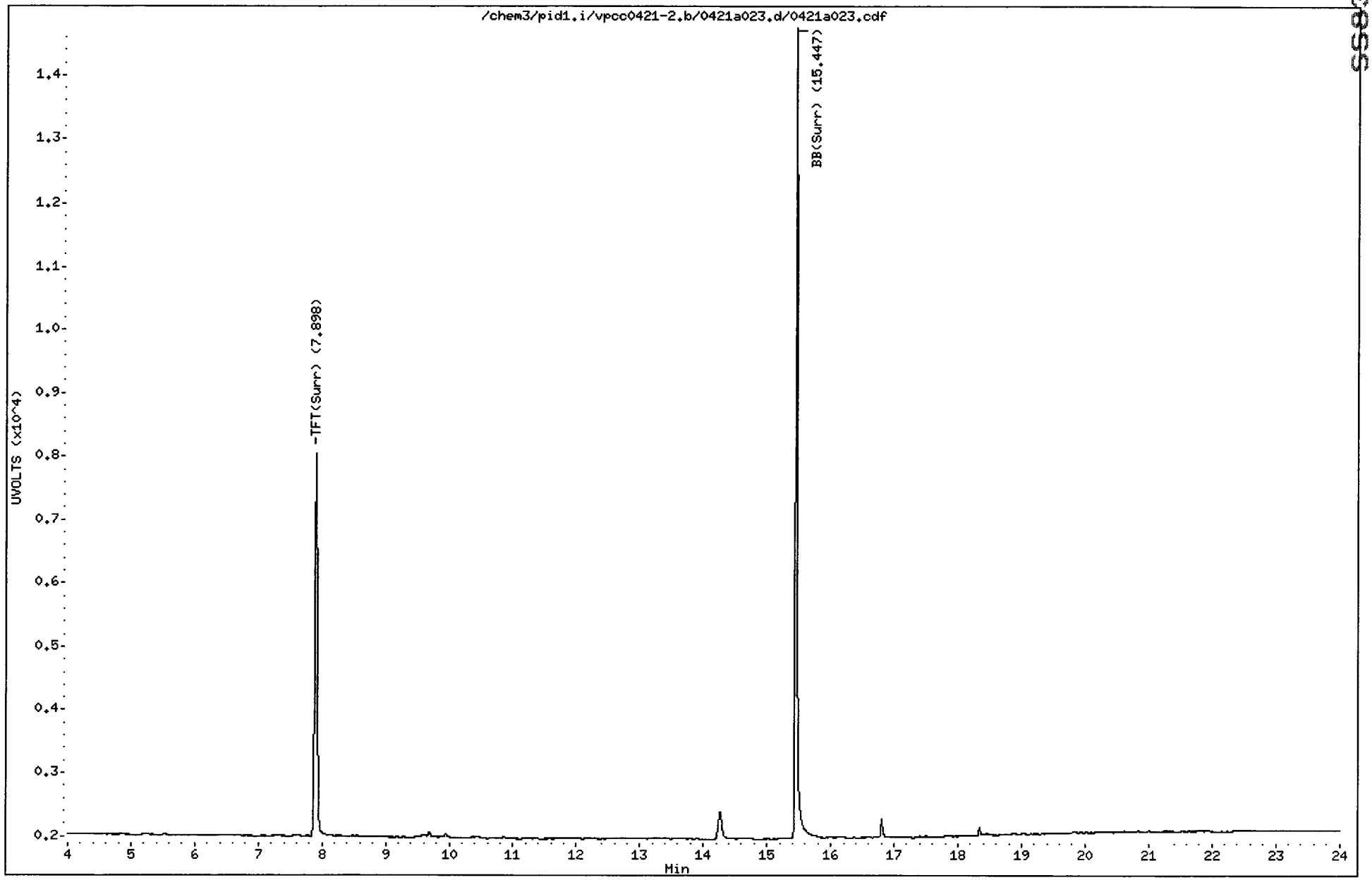
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

SS83 : 61579

1582



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a024.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a024.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83M
Client ID: DMA-TP3-2-3-042011
Injection Date: 21-APR-2011 17:00
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.898	-0.004	2717	36775	96.0	TFT(Surr)
15.448	-0.002	1994	16712	95.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	2323	0.006
8015B 2MP-TMB	(4.16 to 16.26)	747017	1168	0.002
AK101 nC6-nC10	(4.66 to 15.16)	604063	1167	0.002
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	3666	0.009

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
7.896	-0.004	6140	94.3	TFT(Surr)
15.448	-0.002	12933	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/vpcc0421-1.b/0421a024.d

Date : 21-APR-2011 17:00

Client ID: DMA-TP3-2-3-042011

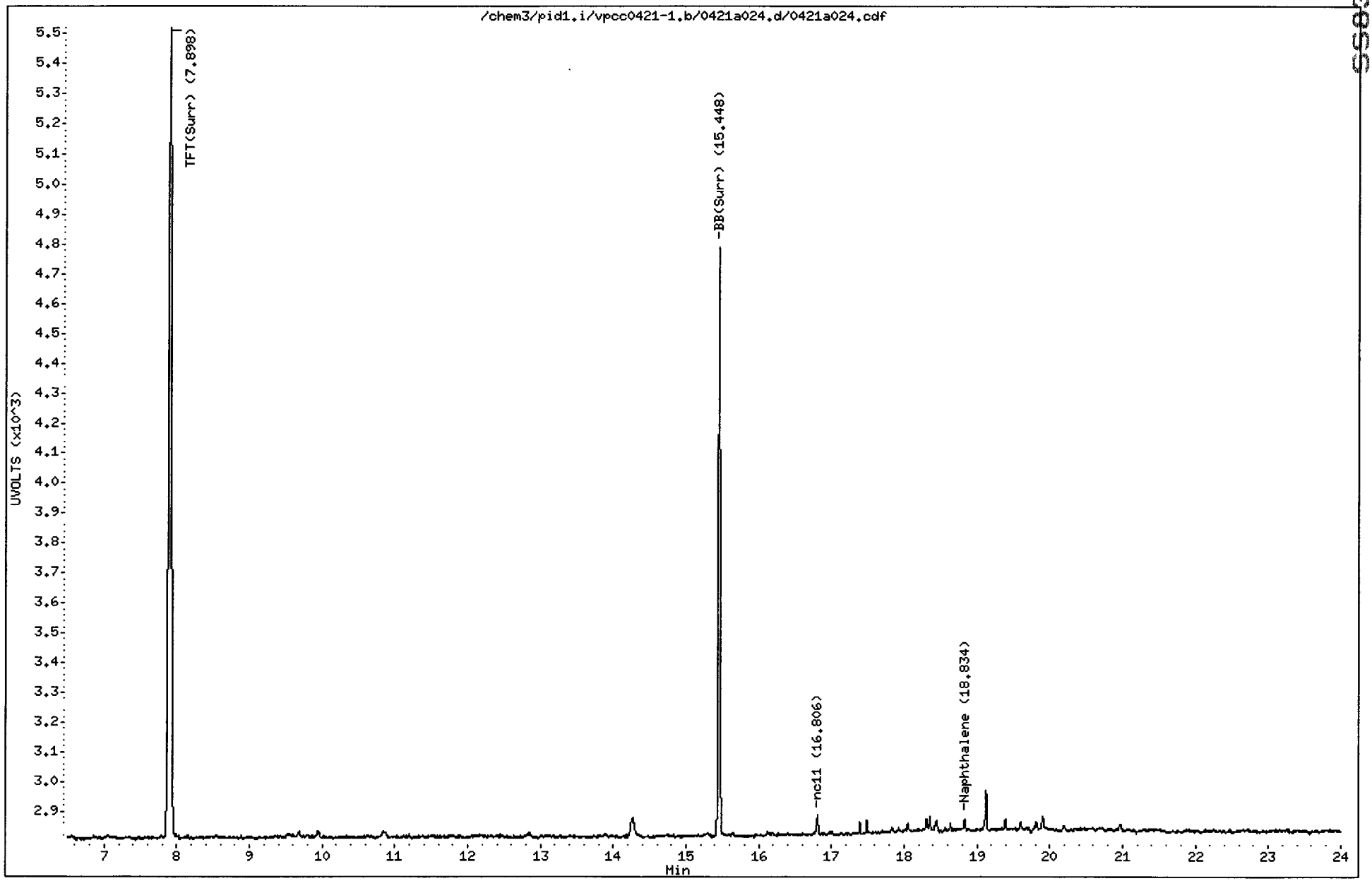
Sample Info: SS83M

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a024.d

Date : 21-APR-2011 17:00

Client ID: DMA-TP3-2-3-042011

Sample Info: SS83M

Column phase: RTX 502-2 PID

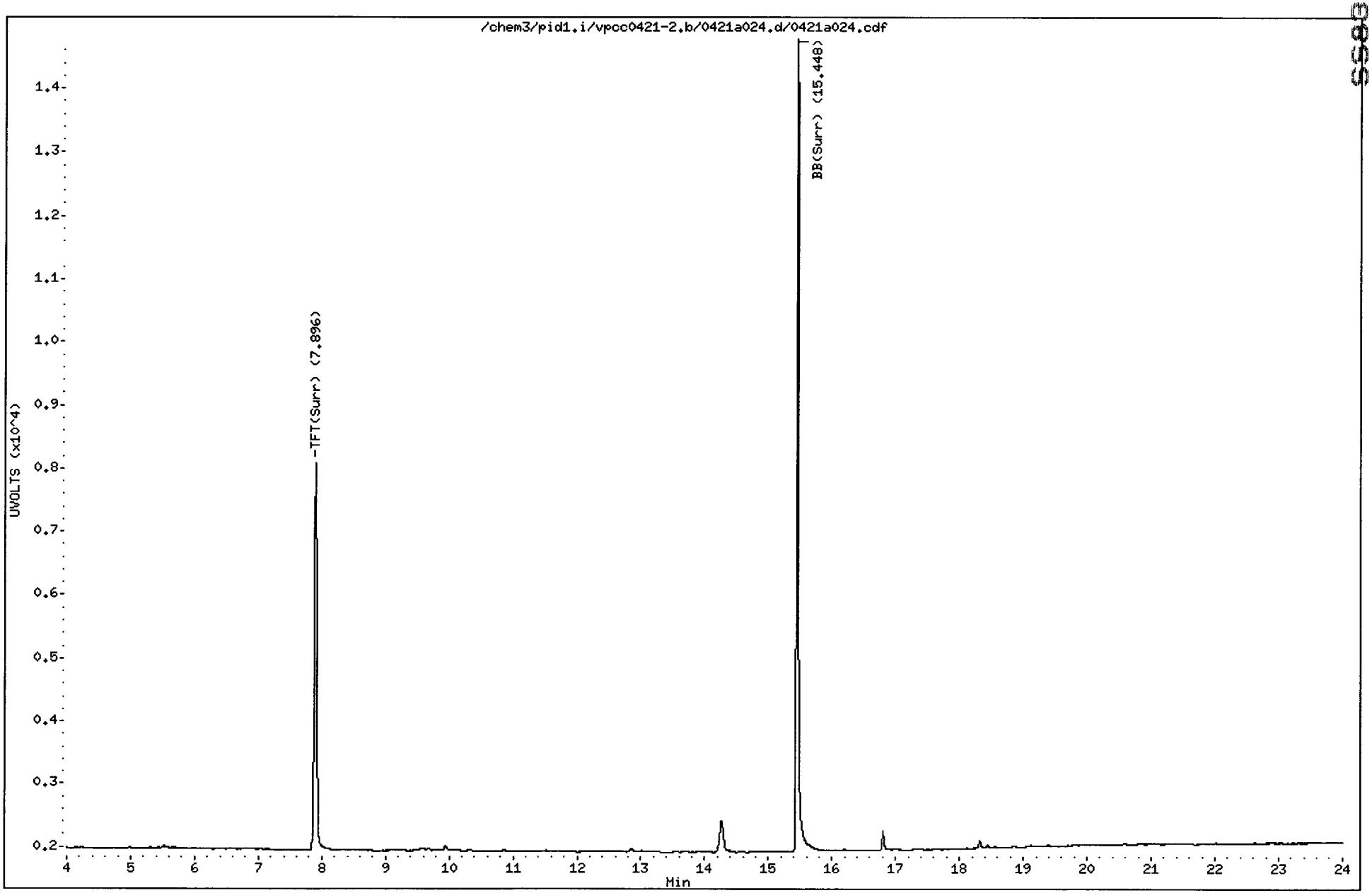
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

SS83 : 91582

1585



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a026.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a026.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BCAL 3
Client ID:
Injection Date: 21-APR-2011 17:58
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.002	2652	35733	93.7	TFT(Surr)
15.448	-0.002	1961	16609	94.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	229152	0.611
8015B 2MP-TMB	(4.16 to 16.26)	747017	226928	0.304
AK101 nC6-nC10	(4.66 to 15.16)	604063	210032	0.348
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	229483	0.569

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
7.898	-0.002	5985	91.9	TFT(Surr)
15.448	-0.002	12729	94.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.047	-0.009	10475	23.89	Benzene
9.943	-0.002	9132	23.35	Toluene
12.848	-0.003	8158	23.88	Ethylbenzene
13.010	-0.003	17387	47.35	M/P-Xylene
13.968	-0.003	7003	24.45	O-Xylene
4.525	-0.005	3922	23.10	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a026.d

Date : 21-APR-2011 17:58

Client ID:

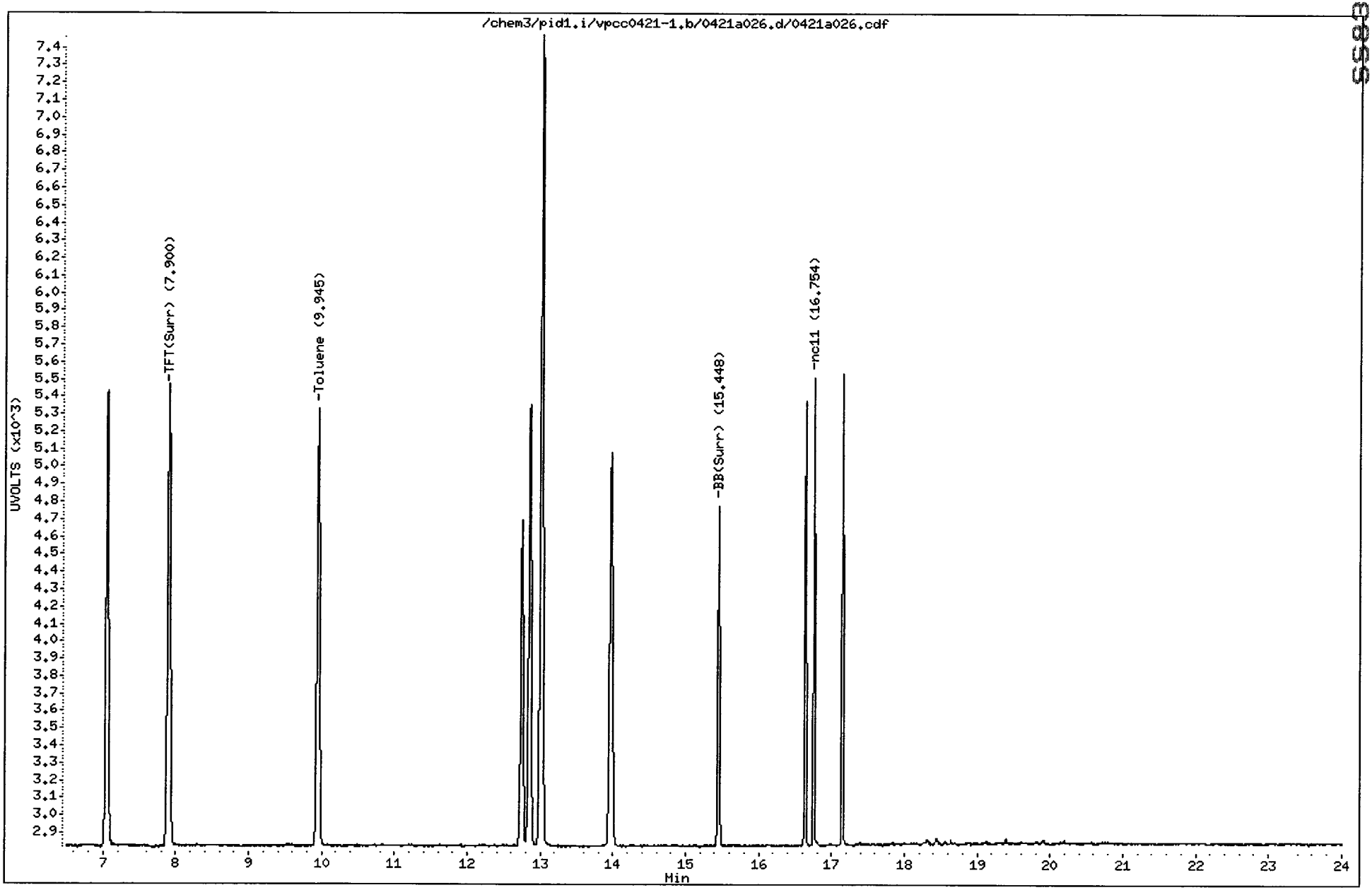
Sample Info: BCAL 3

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a026.d

Date : 21-APR-2011 17:58

Client ID:

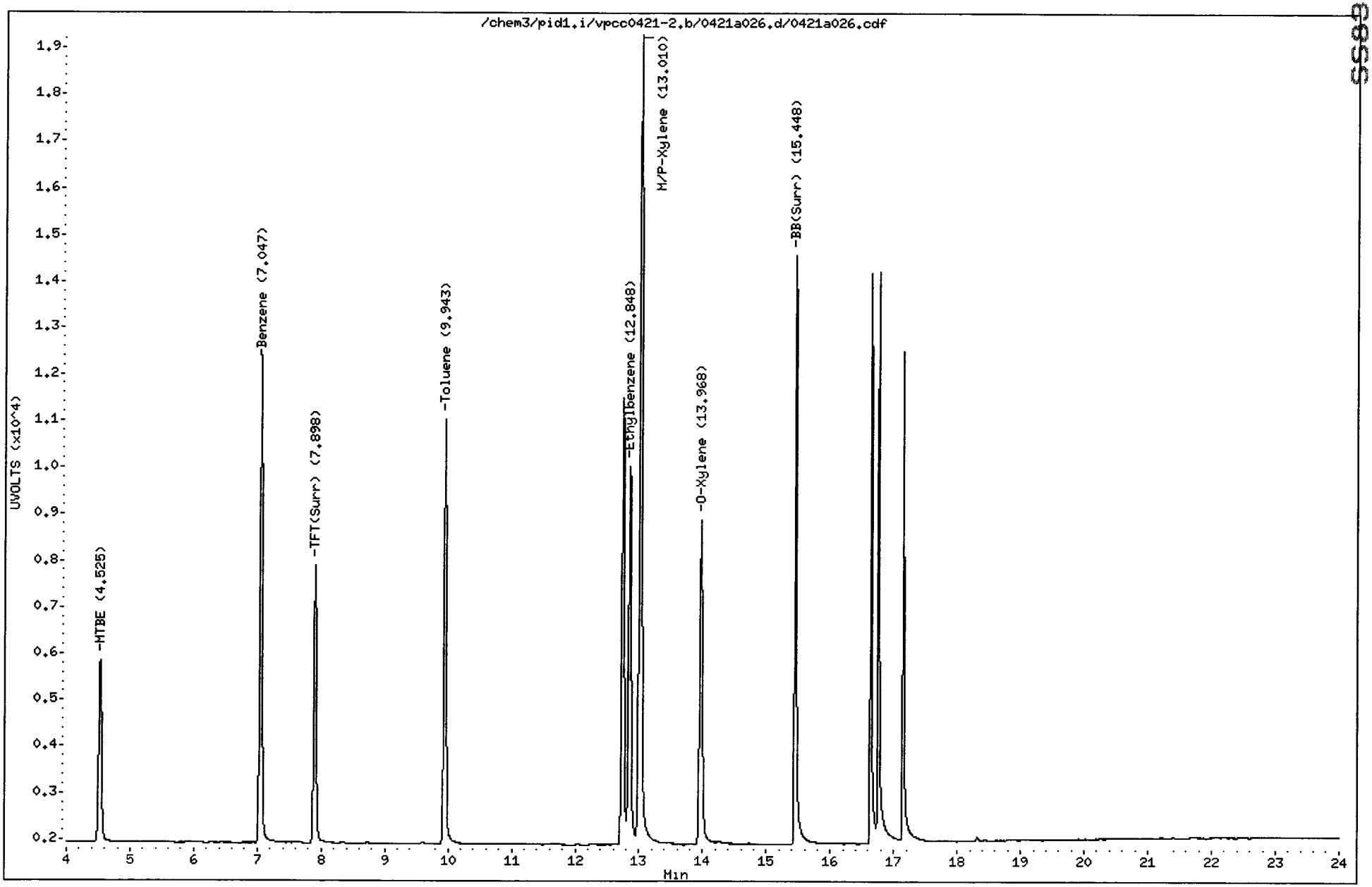
Sample Info: BCAL 3

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a027.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a027.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: GCAL 3
Client ID:
Injection Date: 21-APR-2011 18:27
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.899	-0.003	2923	50547	103.3	TFT(Surr)
15.448	-0.002	2022	18362	97.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	818506	2.184 M
8015B 2MP-TMB	(4.16 to 16.26)	747017	1649768	2.208 M
AK101 nC6-nC10	(4.66 to 15.16)	604063	1321847	2.188 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	863176	2.140 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
7.898	-0.002	6312	96.9	TFT(Surr)
15.448	-0.002	13302	98.7	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.057	0.002	3301	7.53	Benzene
9.944	-0.001	34918	89.30	Toluene
12.848	-0.003	8804	25.78	Ethylbenzene
13.014	0.001	35044	95.43	M/P-Xylene
13.969	-0.002	12563	43.87	O-Xylene
4.528	-0.002	641	3.78	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a027.d

Date : 21-APR-2011 18:27

Client ID:

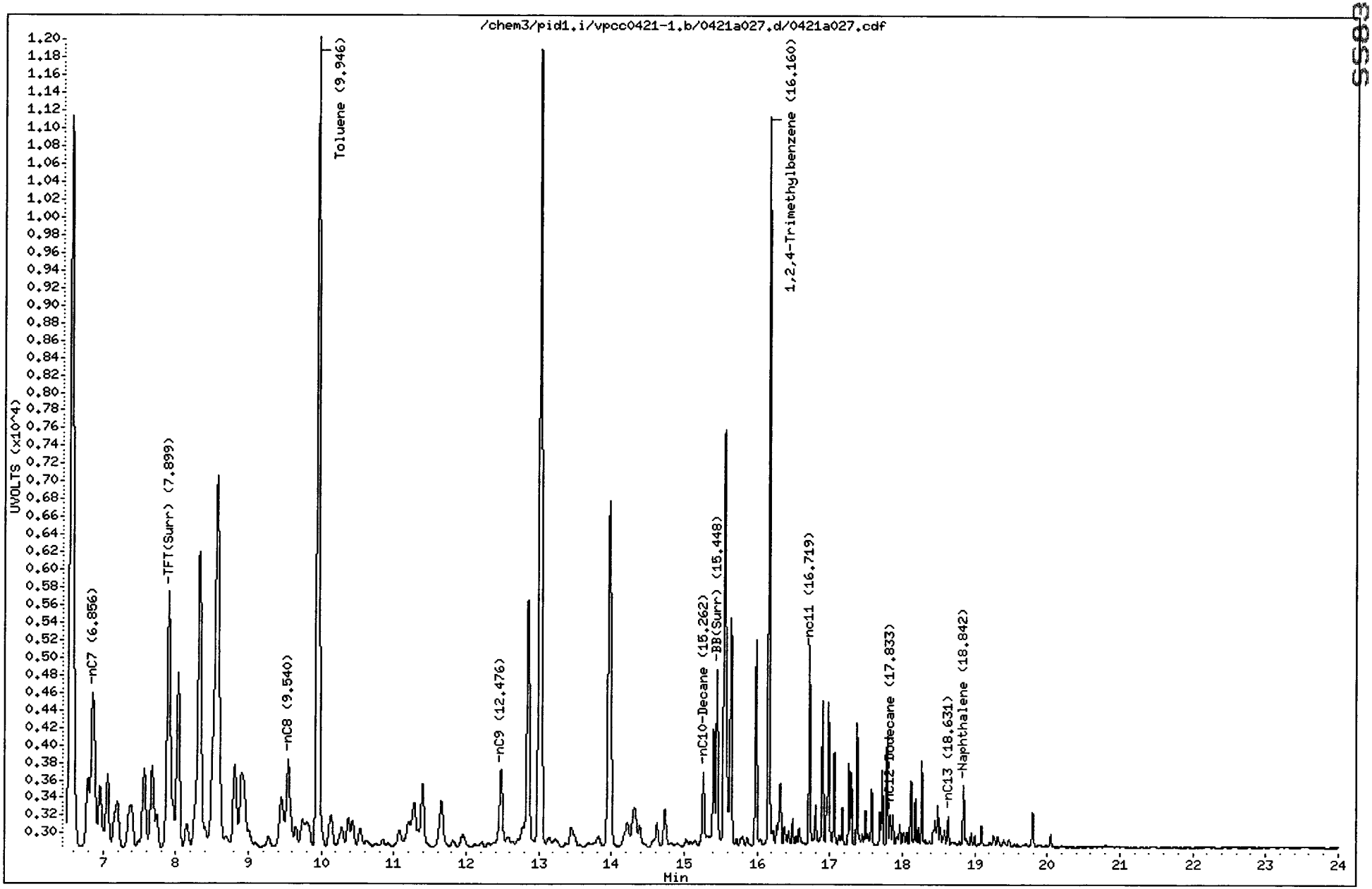
Sample Info: GCAL 3

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a027.d

Date : 21-APR-2011 18:27

Client ID:

Sample Info: GCAL 3

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

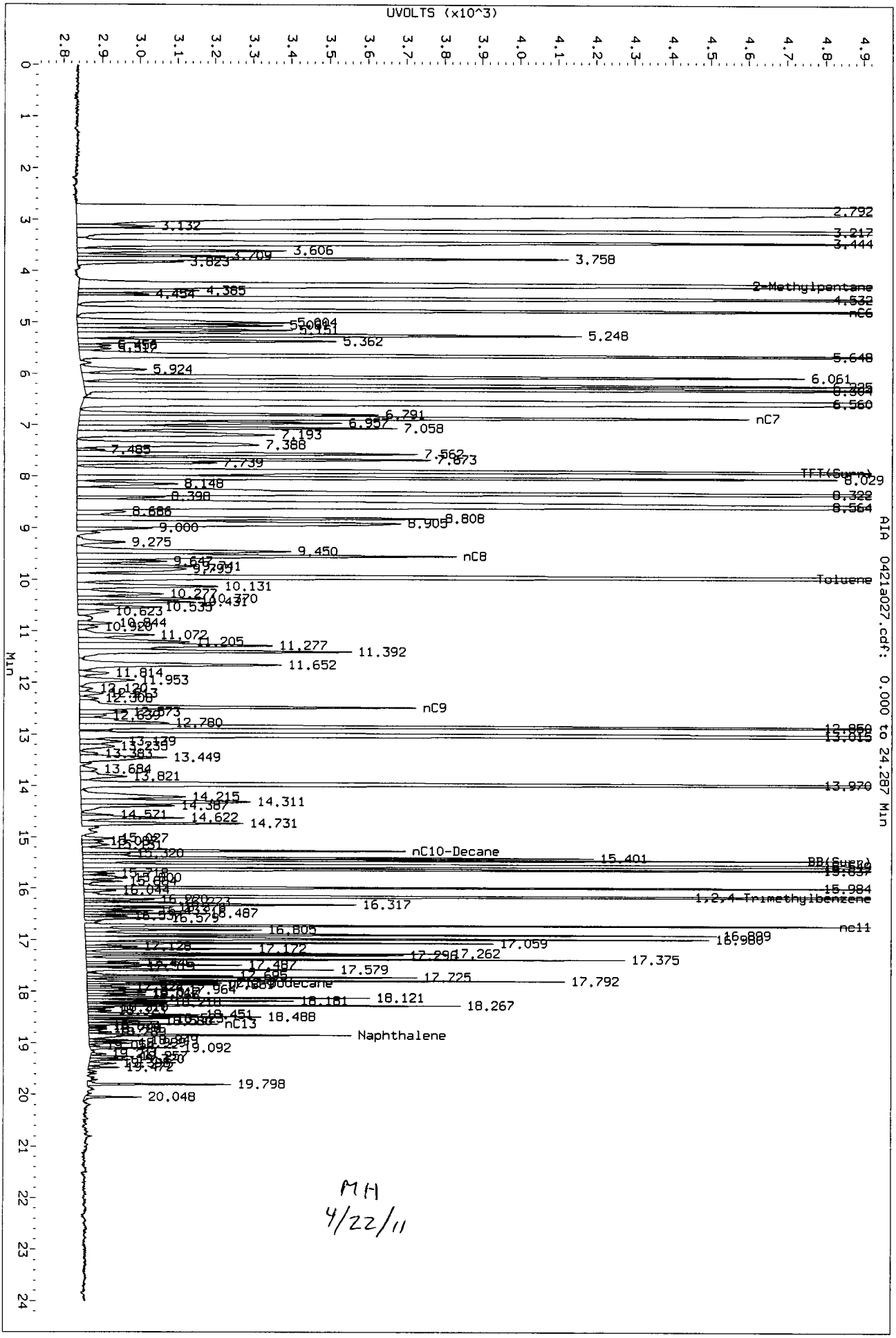
Column diameter: 0.18

/chem3/pid1.i/vpcc0421-2.b/0421a027.d/0421a027.cdf

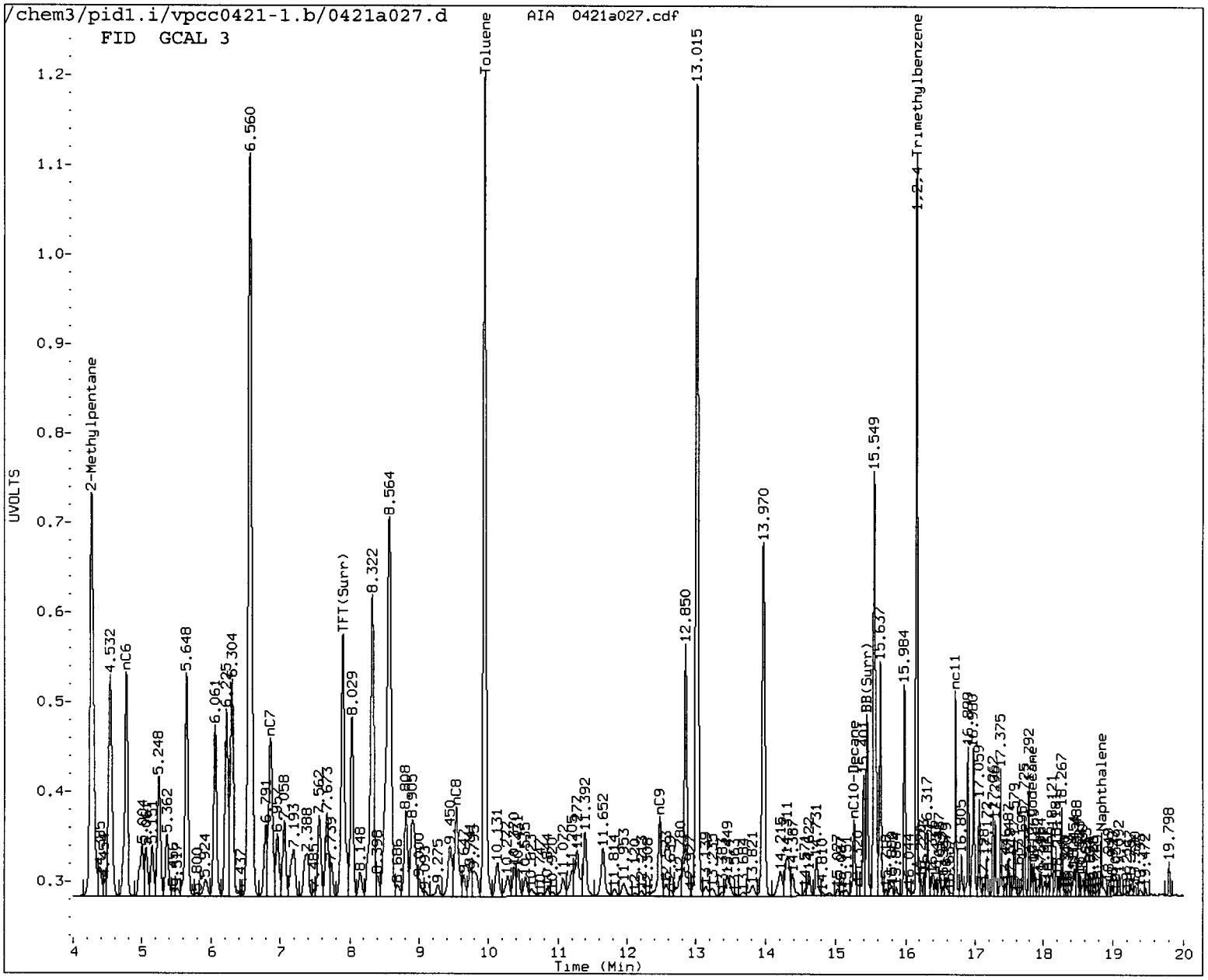
UVOLTS (x10^4)

-MTBE (4.528)
-Benzene (7.057)
-TFT(Surr) (7.898)
Toluene (9.944)
-Ethylbenzene (12.848)
M/P-Xylene (13.014)
-O-Xylene (13.969)
-BB(Surr) (15.448)

Min


UVOLTS (x10^3)
Min
AIA 0421a027.cdf: 0.000 to 24.287 Min
Data File: /chem3/pid1.i/vpcc0421-1.b/0421a027.d/0421a027.cdf
Injection Date: 21-APR-2011 18:27
Instrument: pid1.i
Client Sample ID:
2.792
3.132
3.217
3.444
3.606
3.709
3.758
3.823
2-Methylpentane
4.385
4.454
4.532
nC6
5.248
5.362
5.648
5.924
6.061
6.560
6.791
6.957
7.058
nC7
7.193
7.388
7.485
7.562
7.673
7.739
TFT(Surr)
8.029
8.148
8.322
8.564
8.686
8.808
8.905
9.000
9.275
9.450
nC8
10.131
Toluene
10.623
11.072
11.205
11.277
11.392
11.652
11.814
11.953
nC9
12.780
13.015
13.449
13.684
13.821
13.970
14.215
14.311
14.387
14.521
14.622
14.731
nC10-Decane
15.401
BB(Surr)
15.984
1,2,4-Trimethylbenzene
16.317
16.487
16.575
16.805
nc11
16.889
16.980
17.059
17.172
17.262
17.375
17.487
17.579
17.725
17.792
18.121
18.181
18.267
18.451
18.488
nC13
Naphthalene
19.092
19.798
20.048

MH
4/22/11



MANUAL INTEGRATION

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

5. Other _____

Analyst: MH Date: 4/22/11

MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a028.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a028.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83N
Client ID: DMA-TP3-3-4-042011
Injection Date: 21-APR-2011 18:57
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.003	2653	35951	93.8	TFT(Surr)
15.448	-0.002	2000	16350	95.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	10759	0.029
8015B 2MP-TMB	(4.16 to 16.26)	747017	11295	0.015
AK101 nC6-nC10	(4.66 to 15.16)	604063	7244	0.012
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	11815	0.029

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	-0.003	5965	91.6	TFT(Surr)
15.448	-0.002	12810	95.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
9.944	-0.002	197	0.50	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/vpcc0421-1.b/0421a028.d

Date : 21-APR-2011 18:57

Client ID: DMA-TP3-3-4-042011

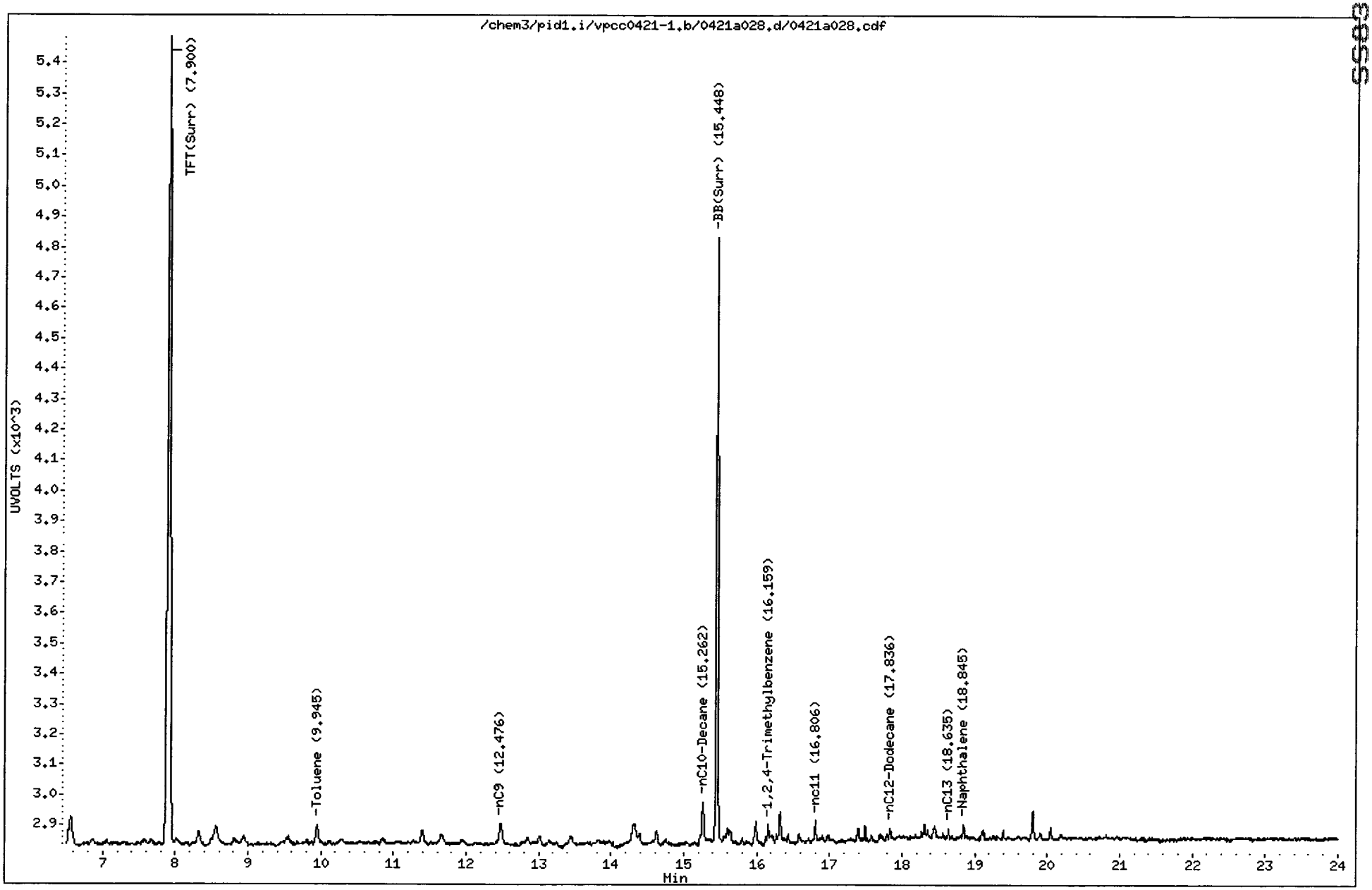
Sample Info: SS83N

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a028.d

Date : 21-APR-2011 18:57

Client ID: DMA-TP3-3-4-042011

Sample Info: SS83N

Column phase: RTX 502-2 PID

Instrument: pid1.i

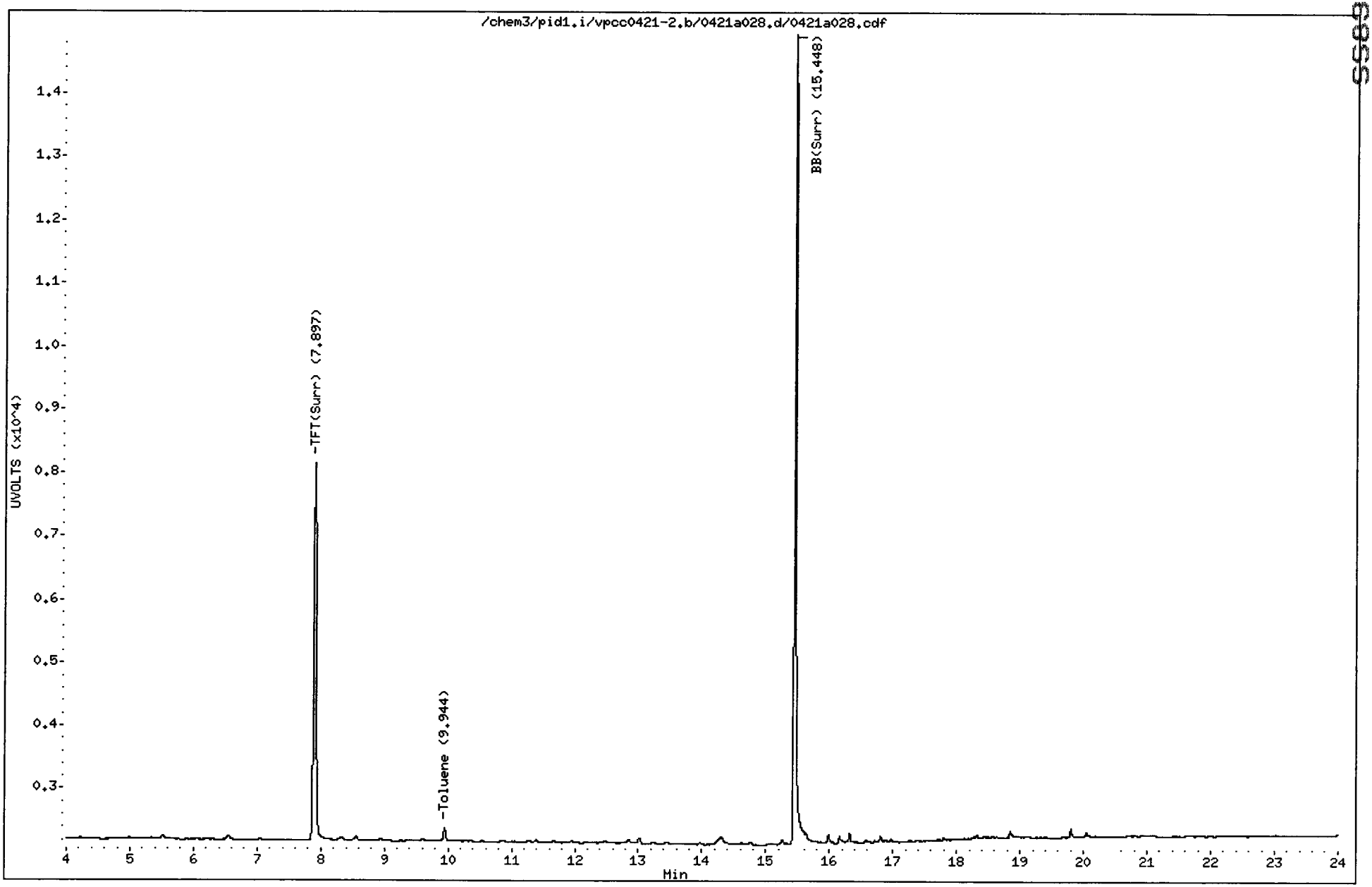
Operator: MH

Column diameter: 0.18

1596

SS83 01593

/chem3/pid1.i/vpcc0421-2.b/0421a028.d/0421a028.cdf



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a029.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a029.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83O
Client ID: DMA-TP3-5-6-042011
Injection Date: 21-APR-2011 19:26
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.899	-0.003	2644	35751	93.5	TFT(Surr)
15.447	-0.002	1994	16734	95.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	4825	0.013
8015B 2MP-TMB	(4.16 to 16.26)	747017	3462	0.005
AK101 nC6-nC10	(4.66 to 15.16)	604063	3462	0.006
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	5895	0.015

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
7.898	-0.002	5985	91.9	TFT(Surr)
15.448	-0.002	12807	95.0	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/vpcc0421-1.b/0421a029.d

Date : 21-APR-2011 19:26

Client ID: DMA-TP3-5-6-042011

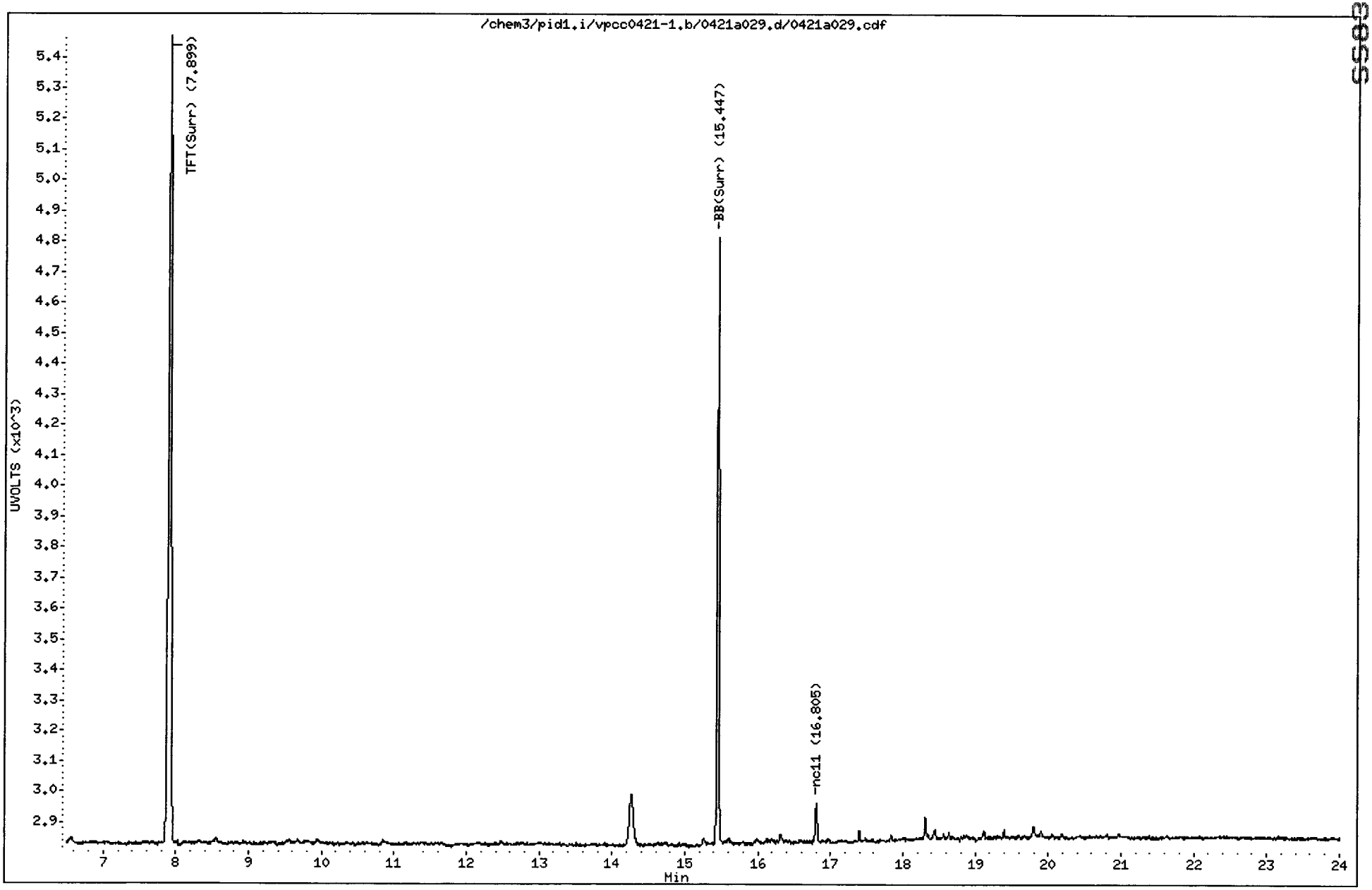
Sample Info: SS830

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a029.d

Date : 21-APR-2011 19:26

Client ID: DMA-TP3-5-6-042011

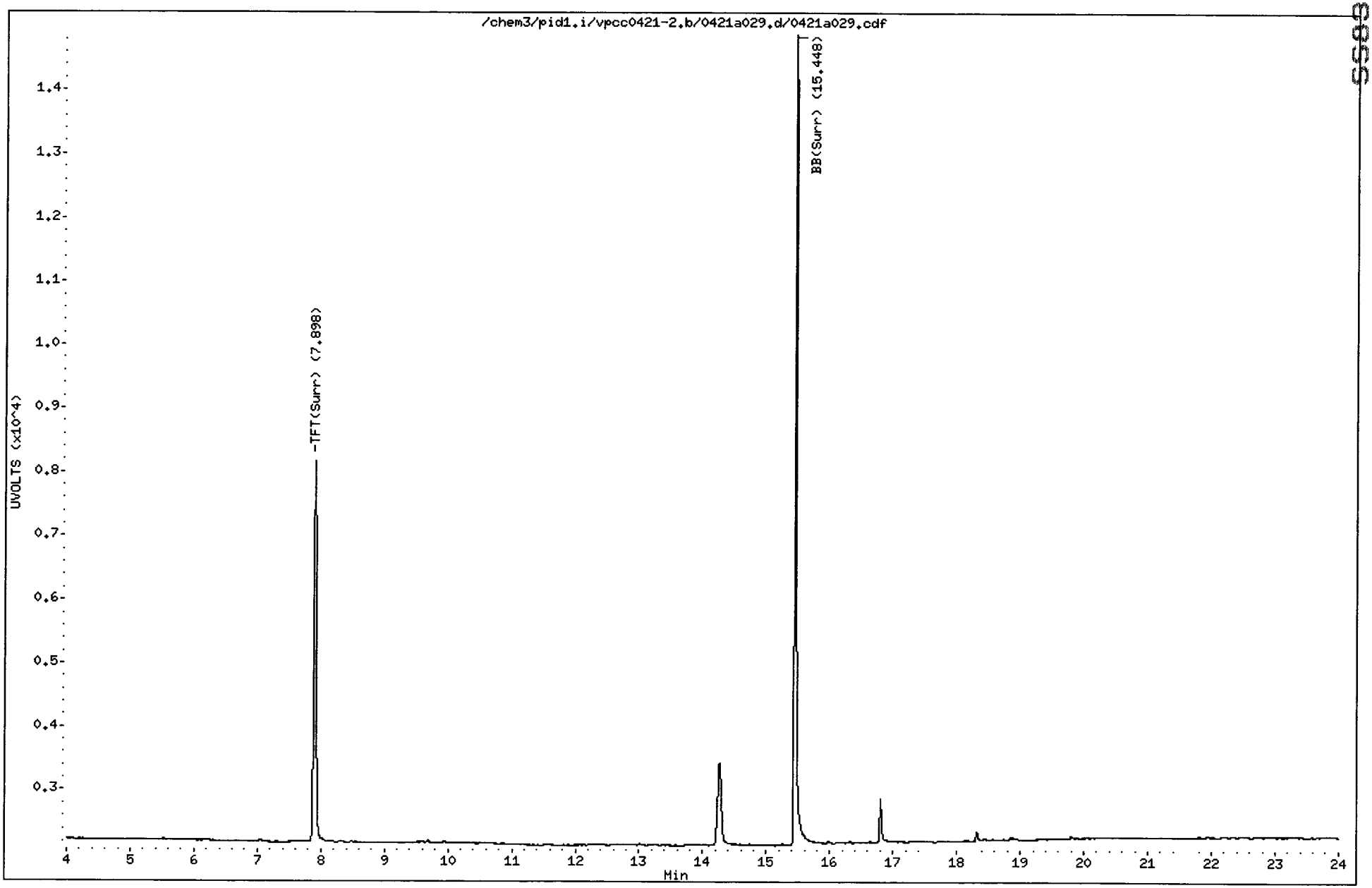
Sample Info: SS830

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a030.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a030.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83MS
Client ID:
Injection Date: 21-APR-2011 19:55
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.898	-0.004	2750	42300	97.2	TFT(Surr)
15.447	-0.002	1986	17212	95.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	352811	0.941 M
8015B 2MP-TMB	(4.16 to 16.26)	747017	715600	0.958 M
AK101 nC6-nC10	(4.66 to 15.16)	604063	576354	0.954 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	375226	0.930 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	-0.003	6118	93.9	TFT(Surr)
15.448	-0.002	12959	96.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.052	-0.003	1439	3.28	Benzene
9.943	-0.003	14410	36.85	Toluene
12.848	-0.004	3582	10.49	Ethylbenzene
13.012	-0.001	14227	38.74	M/P-Xylene
13.967	-0.003	5108	17.84	O-Xylene
4.513	-0.016	292	1.72	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a030.d

Date : 21-APR-2011 19:55

Client ID:

Sample Info: SS83MS

Column phase: RTX 502-2 FID

Instrument: pid1.i

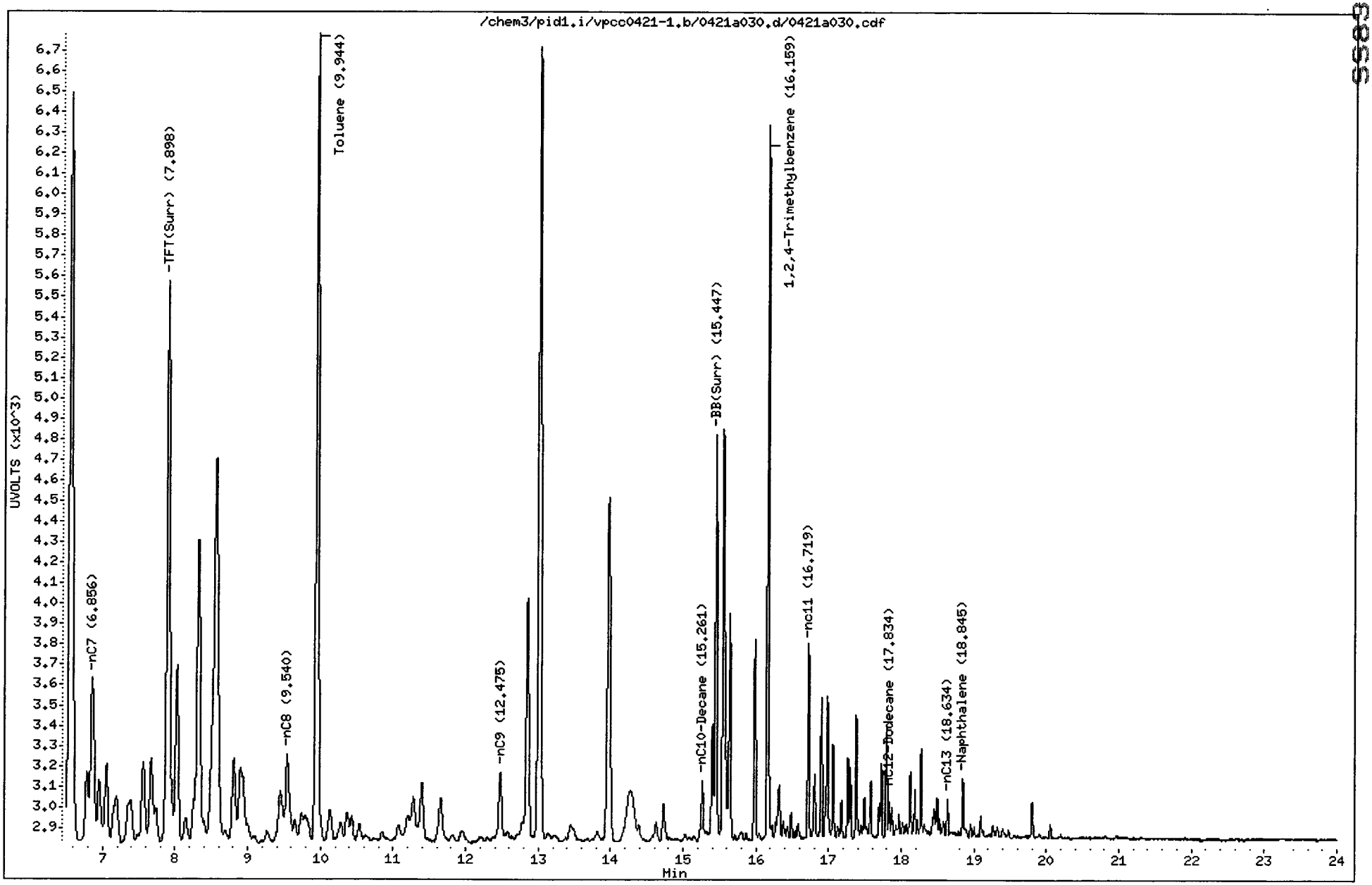
Operator: MH

Column diameter: 0.18

1601

SS83:01598

/chem3/pid1.i/vpcc0421-1.b/0421a030.d/0421a030.cdf



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a030.d

Date : 21-APR-2011 19:55

Client ID:

Sample Info: SS83MS

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1602

SS83 : 01595

/chem3/pid1.i/vpcc0421-2.b/0421a030.d/0421a030.cdf

UVOLTS (x10^4)

-MTBE (4.513)

-Benzene (7.052)

-TFT(Surr) (7.897)

Toluene (9.943)

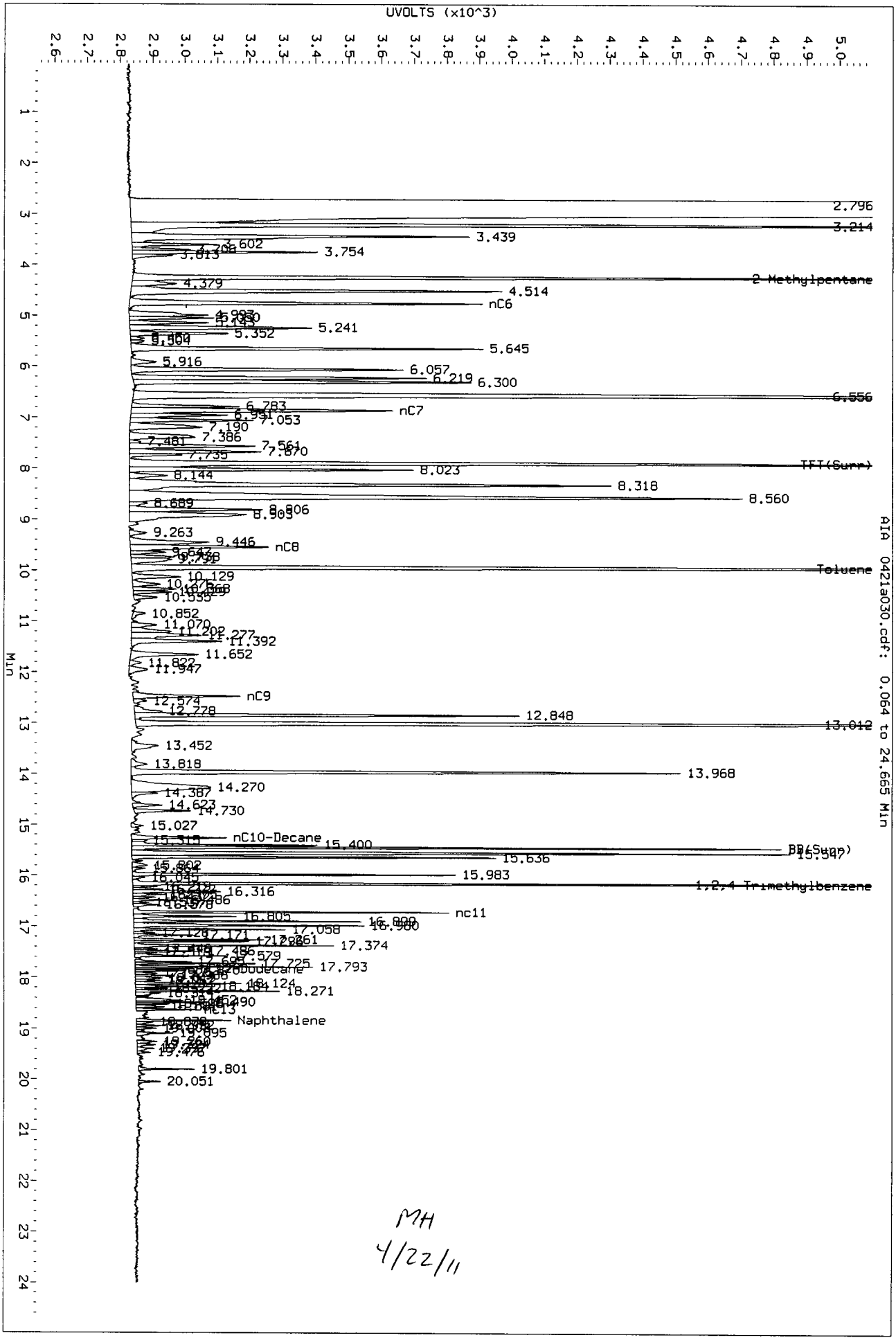
-Ethylbenzene (12.848)

M/P-Xylene (13.012)

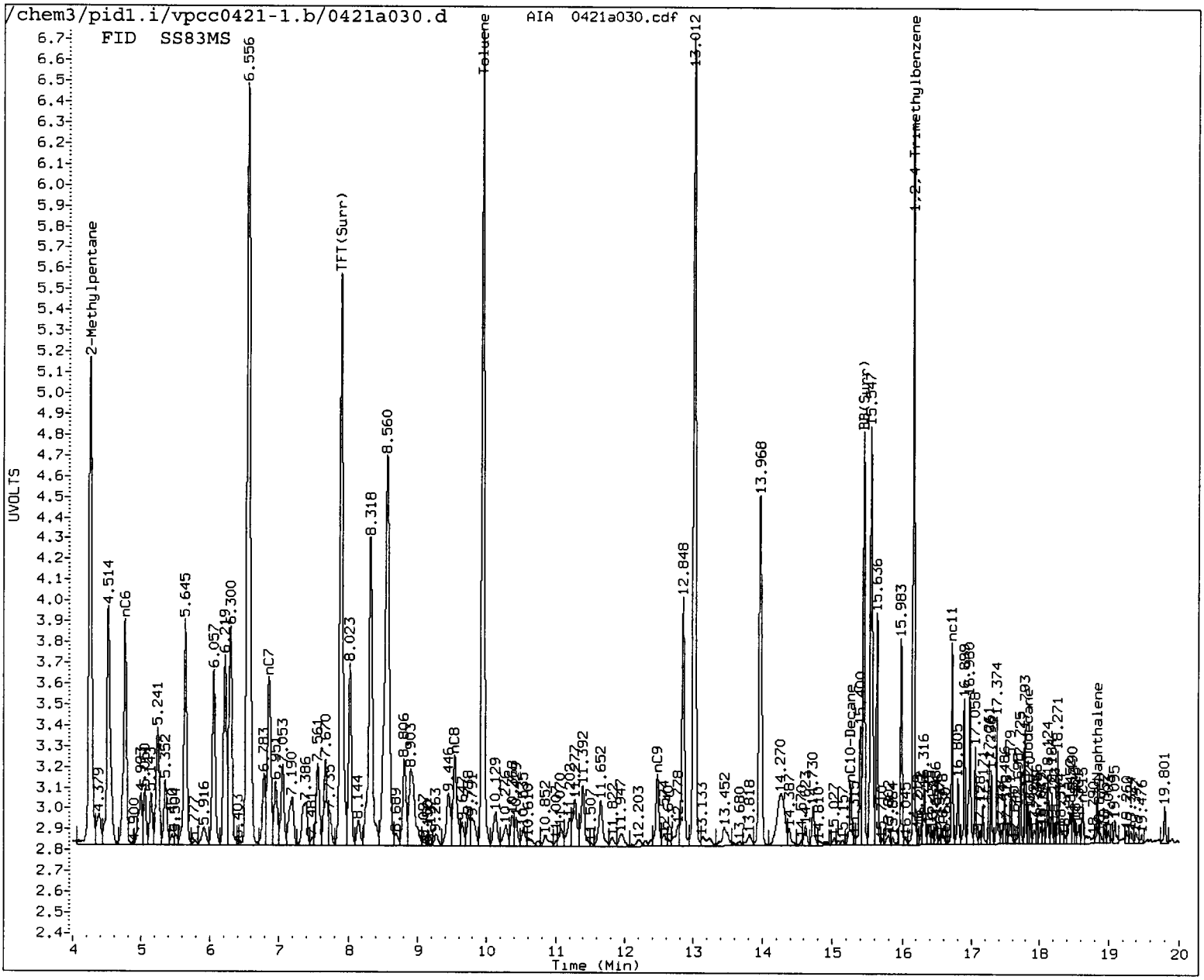
-O-Xylene (13.967)

BB(Surr) (15.448)

Min


UVOLTS (x10^3)
Min
2.796
3.214
3.439
3.602
3.754
2 Methylpentane
4.379
4.514
nC6
5.241
5.352
5.645
5.916
6.057
6.219
6.300
6.556
nC7
6.783
7.053
7.190
7.386
7.481
7.561
7.735
7.870
TFT(Surr)
8.023
8.144
8.318
8.560
8.689
8.806
8.905
9.263
9.446
nC8
Toluene
10.129
10.852
11.070
11.277
11.392
11.652
11.822
11.947
nC9
12.574
12.778
12.848
13.012
13.452
13.818
13.968
14.270
14.387
14.623
14.730
15.027
nC10-Decane
15.400
BB(Surr)
15.547
15.636
15.802
15.983
16.045
1,2,4 Trimethylbenzene
16.316
nc11
16.805
16.900
16.980
17.058
17.171
17.374
17.486
17.579
17.725
17.793
18.124
18.271
18.290
nC13
Naphthalene
19.801
20.051
AIA 0421a030.cdf: 0.064 to 24.665 Min
Data File: /chem3/pid1.i/vpcc0421-1.b/0421a030.d/0421a030.cdf
Injection Date: 21-APR-2011 19:55
Instrument: pid1.i
Client Sample ID:

MH
4/22/11



MANUAL INTEGRATION

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

5. Other _____

Analyst: MH Date: 4/22/11

MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a031.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a031.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: SS83OMSD
Client ID: DMA-TP3-5-6-042 MSD
Injection Date: 21-APR-2011 20:24
Matrix: SOIL
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.898	-0.004	2695	41242	95.3	TFT(Surr)
15.448	-0.002	1964	16987	94.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	341612	0.912 M
8015B 2MP-TMB	(4.16 to 16.26)	747017	685140	0.917 M
AK101 nC6-nC10	(4.66 to 15.16)	604063	547774	0.907 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	364754	0.904 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
7.896	-0.004	5943	91.3	TFT(Surr)
15.447	-0.002	12749	94.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.052	-0.003	1397	3.19	Benzene
9.942	-0.004	14118	36.11	Toluene
12.847	-0.004	3548	10.39	Ethylbenzene
13.011	-0.002	14138	38.50	M/P-Xylene
13.967	-0.004	5060	17.67	O-Xylene
4.513	-0.017	291	1.71	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a031.d

Date : 21-APR-2011 20:24

Client ID: DMA-TP3-5-6-042 MSD

Sample Info: SS830MSD

Column phase: RTX 502-2 FID

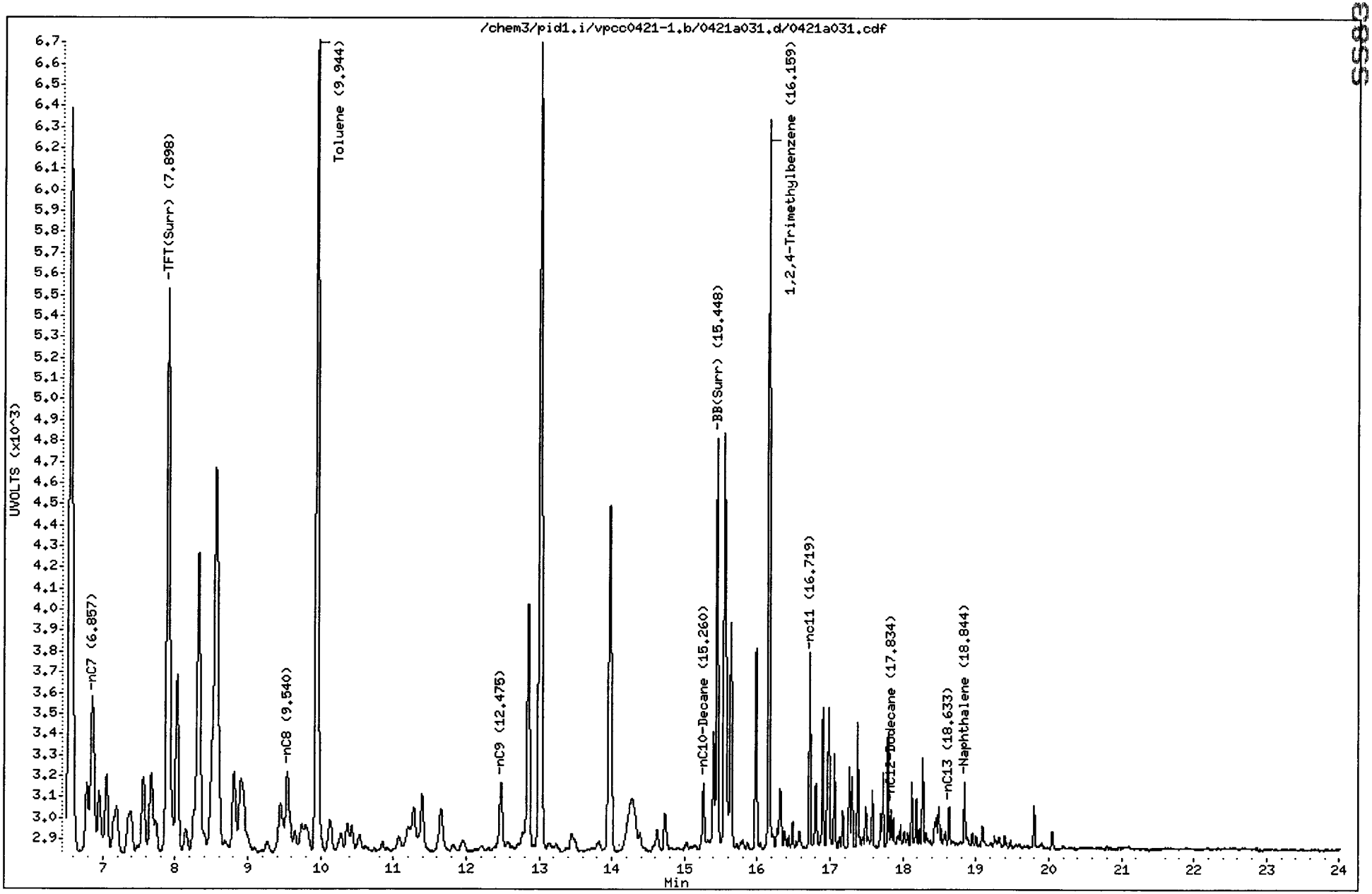
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1606

SS83 01603



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a031.d
Date : 21-APR-2011 20:24
Client ID: DMA-TP3-5-6-042 MSD
Sample Info: SS830MSD

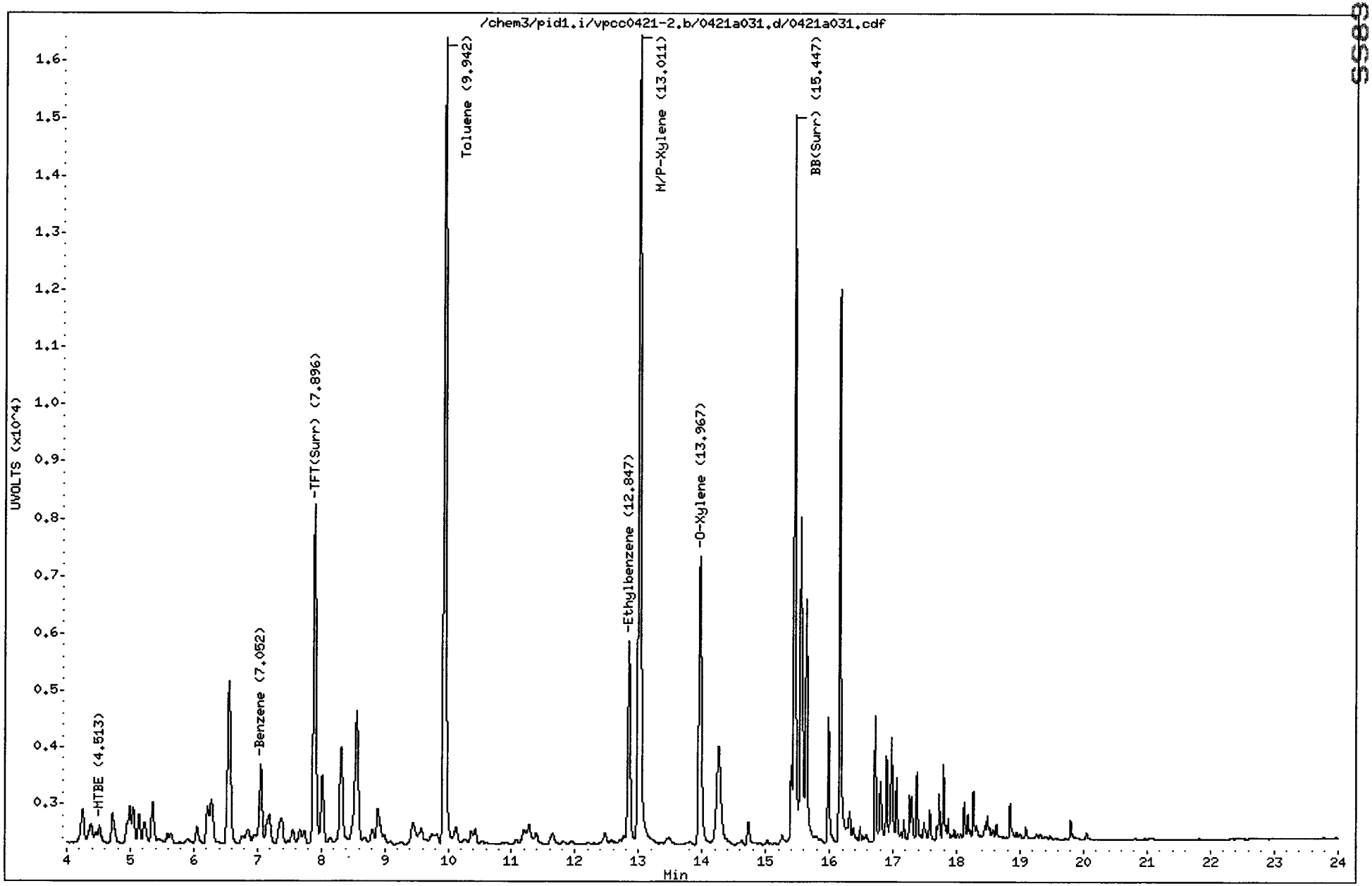
Column phase: RTX 502-2 PID

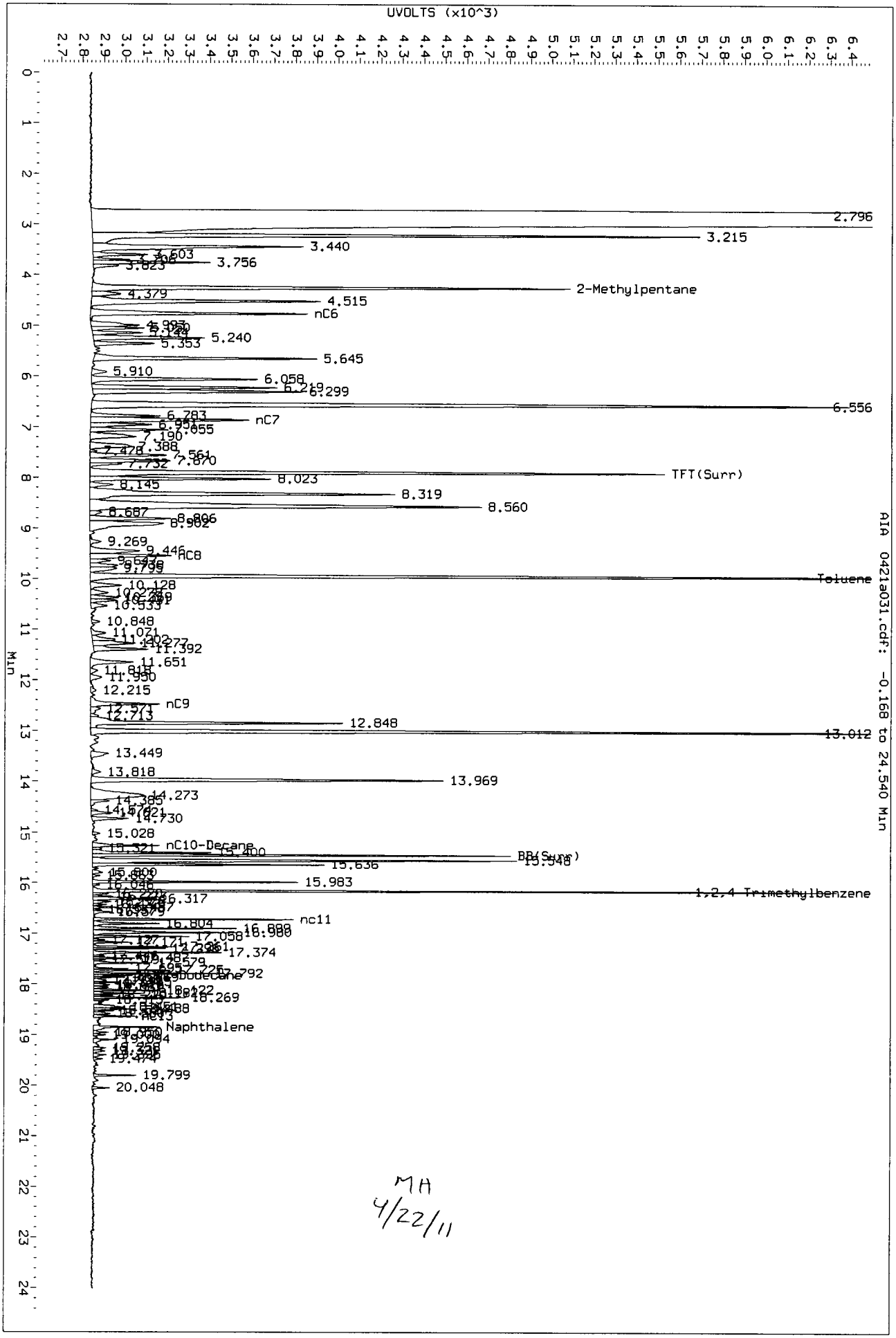
Instrument: pid1.i

Operator: MH
Column diameter: 0.18

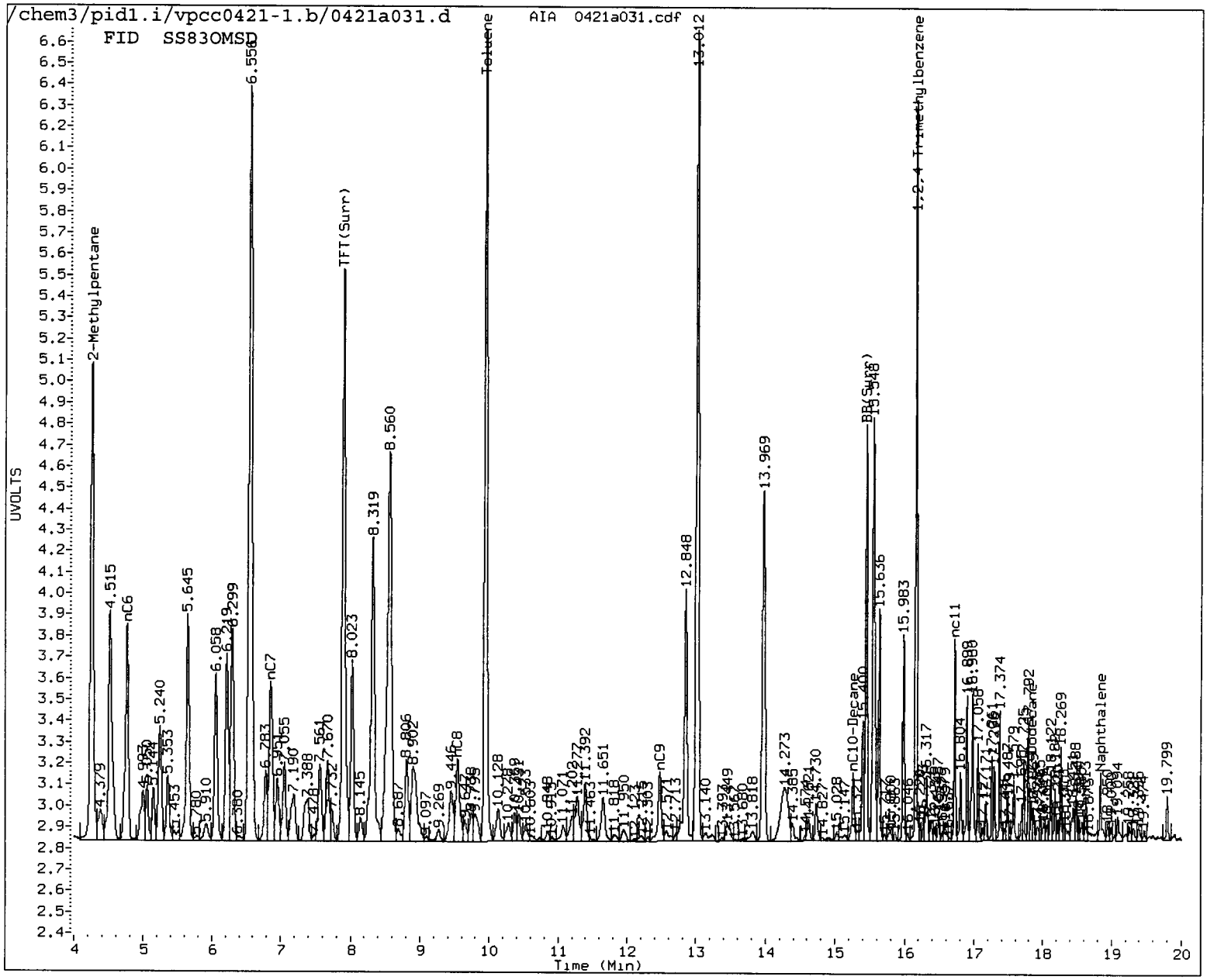
1607

SS83 : 016014




UVOLTS (x10^3)
Min
2.796
3.215
3.440
3.603
3.623
3.756
2-Methylpentane
4.379
4.515
nC6
5.240
5.353
5.645
5.910
6.058
6.299
6.556
nC7
6.783
7.190
7.388
7.561
7.732
7.870
TFT(Surr)
8.023
8.145
8.319
8.560
8.687
8.806
8.902
9.269
9.446
nC8
Toluene
10.128
10.533
10.848
11.021
11.392
11.651
11.930
12.215
nC9
12.571
12.713
12.848
13.012
13.449
13.818
13.969
14.273
14.385
14.730
15.028
nC10-Decane
13.400
BB(Surr)
15.548
15.636
15.809
15.983
16.046
1,2,4 Trimethylbenzene
16.317
nc11
16.804
16.888
16.980
17.058
17.374
17.792
18.269
Naphthalene
19.799
20.048
AIA 0421a031.cdf: -0.168 to 24.540 Min
Data File: /chem3/pid1.i/vpcc0421-1.b/0421a031.d/0421a031.cdf
Injection Date: 21-APR-2011 20:24
Instrument: pid1.i
Client Sample ID: DMA-TP3-5-6-042 MSD

MA
4/22/11



MANUAL INTEGRATION

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

5. Other _____

Analyst: MH Date: 4/22/11

MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a033.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a033.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: BCAL 4
Client ID:
Injection Date: 21-APR-2011 21:22
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.901	-0.001	2541	34414	89.8	TFT(Surr)
15.448	-0.002	1948	16143	93.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	224265	0.598
8015B 2MP-TMB	(4.16 to 16.26)	747017	222964	0.298
AK101 nC6-nC10	(4.66 to 15.16)	604063	206258	0.341
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	224265	0.556

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
7.899	-0.001	5696	87.5	TFT(Surr)
15.448	-0.002	12586	93.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.047	-0.008	10252	23.39	Benzene
9.944	-0.001	8851	22.64	Toluene
12.848	-0.003	7875	23.06	Ethylbenzene
13.010	-0.003	16825	45.82	M/P-Xylene
13.968	-0.003	6853	23.93	O-Xylene
4.525	-0.004	3780	22.27	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-2.b/0421a033.d

Date : 21-APR-2011 21:22

Client ID:

Sample Info: BCAL 4

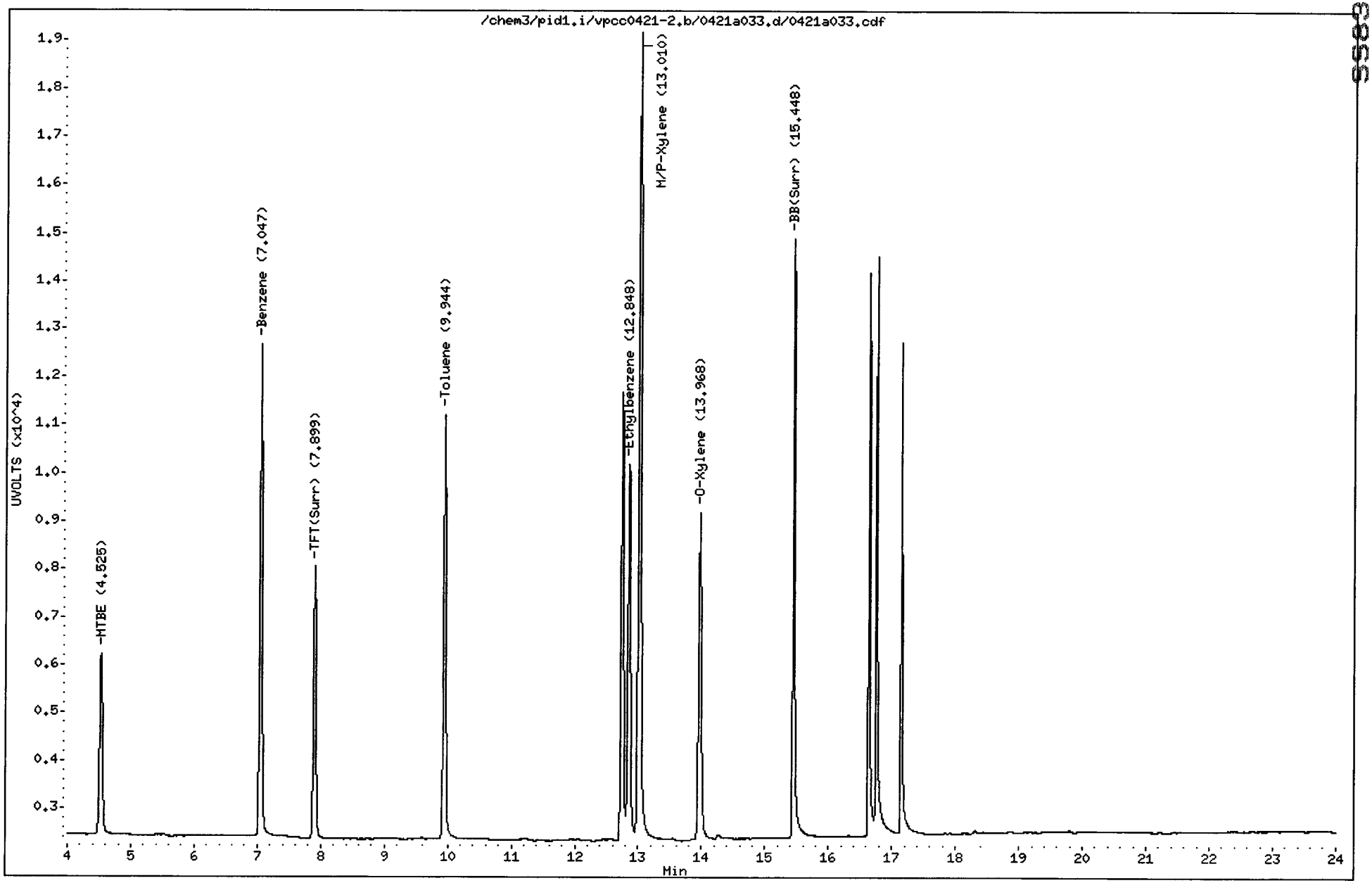
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1611



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a033.d

Date : 21-APR-2011 21:22

Client ID:

Sample Info: BCAL 4

Column phase: RTX 502-2 PID

Instrument: pid1.i

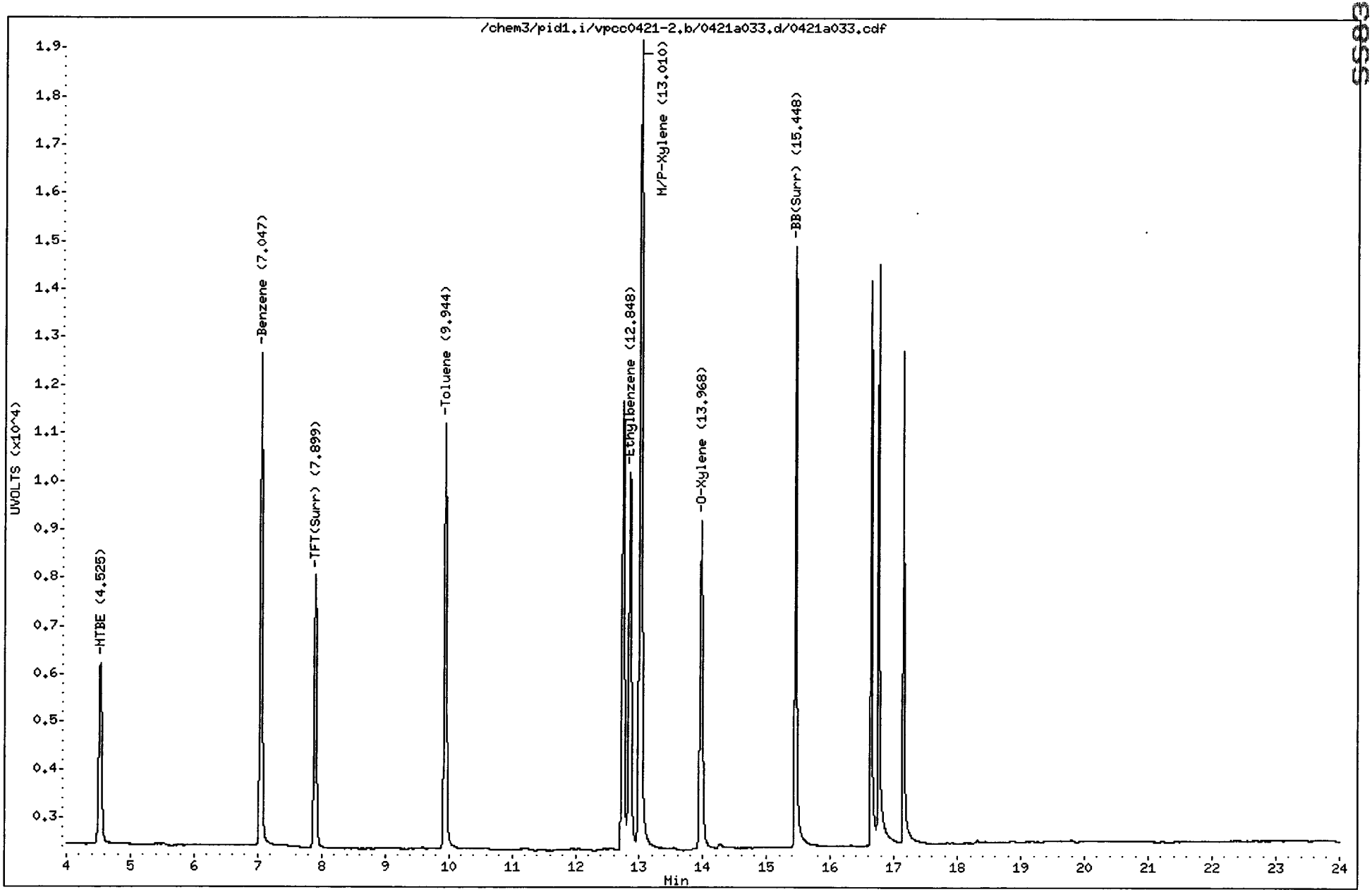
Operator: MH

Column diameter: 0.18

1612

SS83 01609

/chem3/pid1.i/vpcc0421-2.b/0421a033.d/0421a033.cdf



MH 4/22/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0421-1.b/0421a034.d
Data file 2: /chem3/pid1.i/vpcc0421-2.b/0421a034.d
Method: /chem3/pid1.i/vpcc0421-2.b/PIDB.m
Instrument: pid1.i
Gas Ical Date: 16-APRIL-2011
BETX Ical Date: 16-APR-2011

ARI ID: GCAL 4
Client ID:
Injection Date: 21-APR-2011 21:52
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.898	-0.004	2901	50292	102.5	TFT(Surr)
15.448	-0.002	2045	18336	98.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range		RF	Total Area*	Amount
WAGas Tol-C12	(9.85 to 17.94)	374773	821185	2.191 M
8015B 2MP-TMB	(4.16 to 16.26)	747017	1604232	2.148 M
AK101 nC6-nC10	(4.66 to 15.16)	604063	1278782	2.117 M
NWTPHG Tol-Nap	(9.85 to 18.95)	403422	867836	2.151 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	-0.003	6162	94.6	TFT(Surr)
15.447	-0.002	13314	98.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.056	0.001	3394	7.74	Benzene
9.944	-0.002	35916	91.85	Toluene
12.848	-0.003	8921	26.12	Ethylbenzene
13.013	0.001	35613	96.98	M/P-Xylene
13.968	-0.003	12819	44.76	O-Xylene
4.527	-0.003	612	3.60	MTBE

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

Data File: /chem3/pid1.i/vpcc0421-1.b/0421a034.d

Date : 21-APR-2011 21:52

Client ID:

Sample Info: GCAL 4

Column phase: RTX 502-2 FID

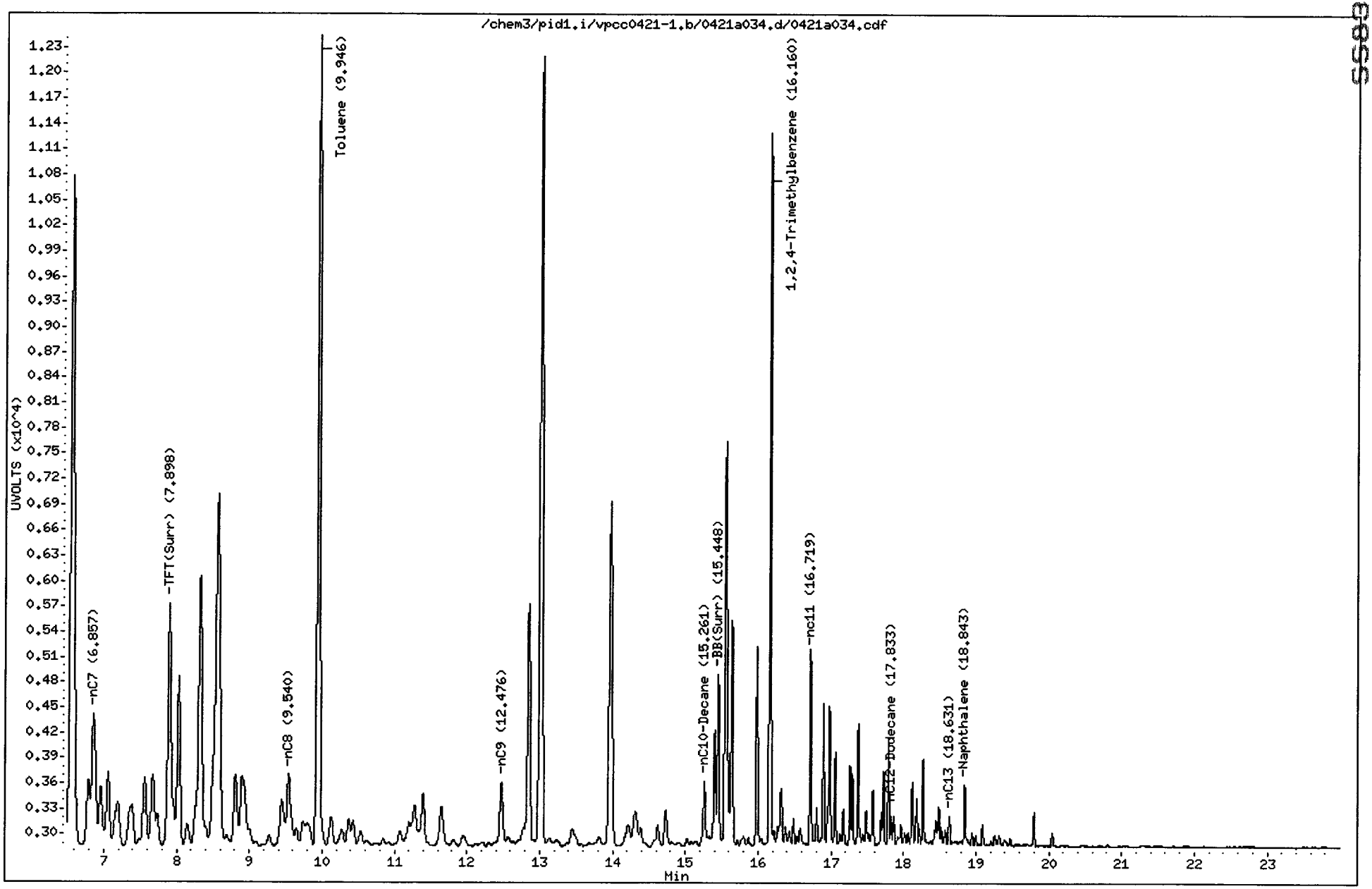
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1614

SSG3 : 01611



Data File: /chem3/pid1.i/vpcc0421-2.b/0421a034.d

Date : 21-APR-2011 21:52

Client ID:

Sample Info: GCAL 4

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

1615

SS83 : 01612

/chem3/pid1.i/vpcc0421-2.b/0421a034.d/0421a034.cdf

UVOLTS (x10^4)

-MTBE (4.527)

-Benzene (7.056)

-TFT(Surr) (7.897)

Toluene (9.944)

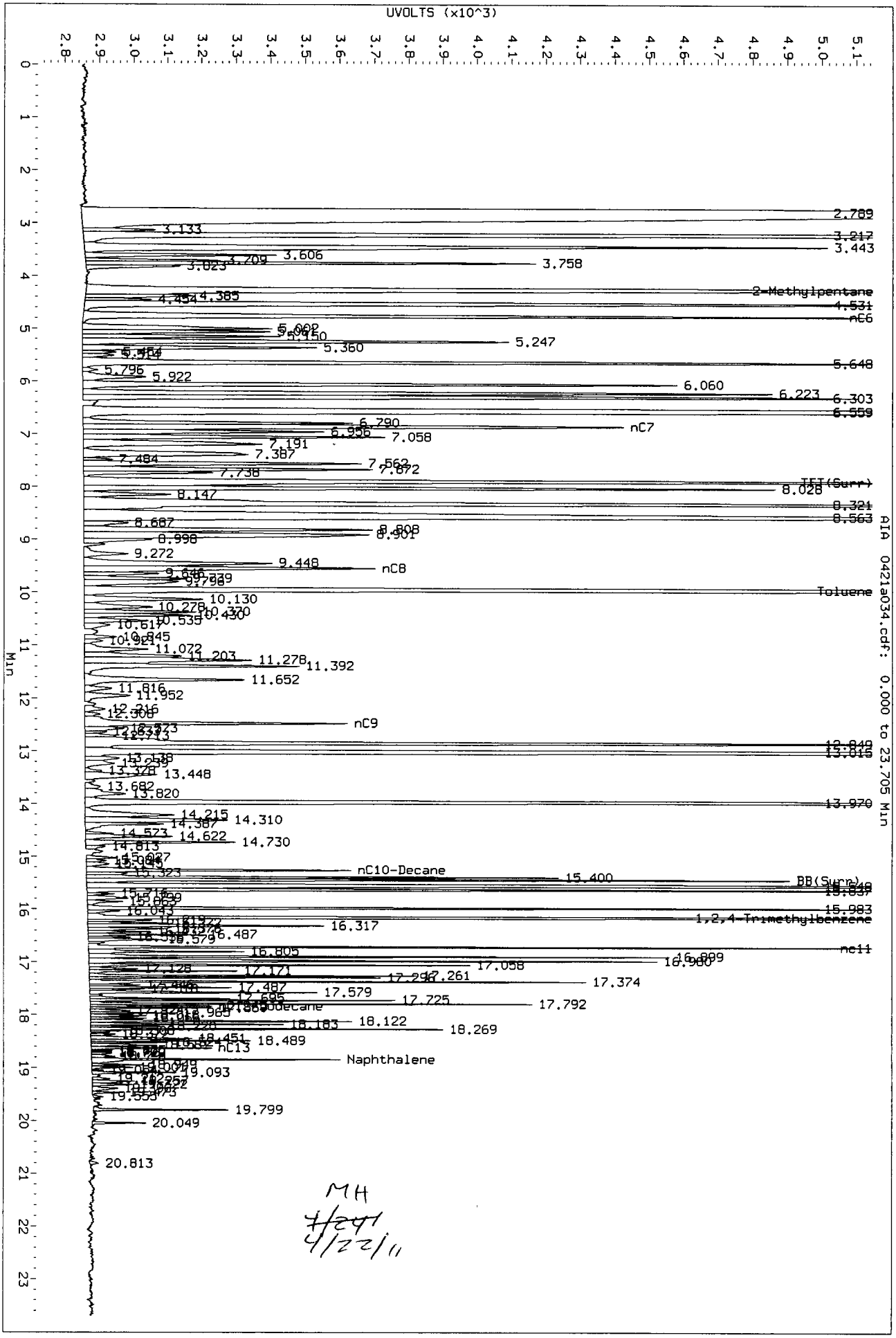
-Ethylbenzene (12.848)

M/P-Xylene (13.013)

-O-Xylene (13.968)

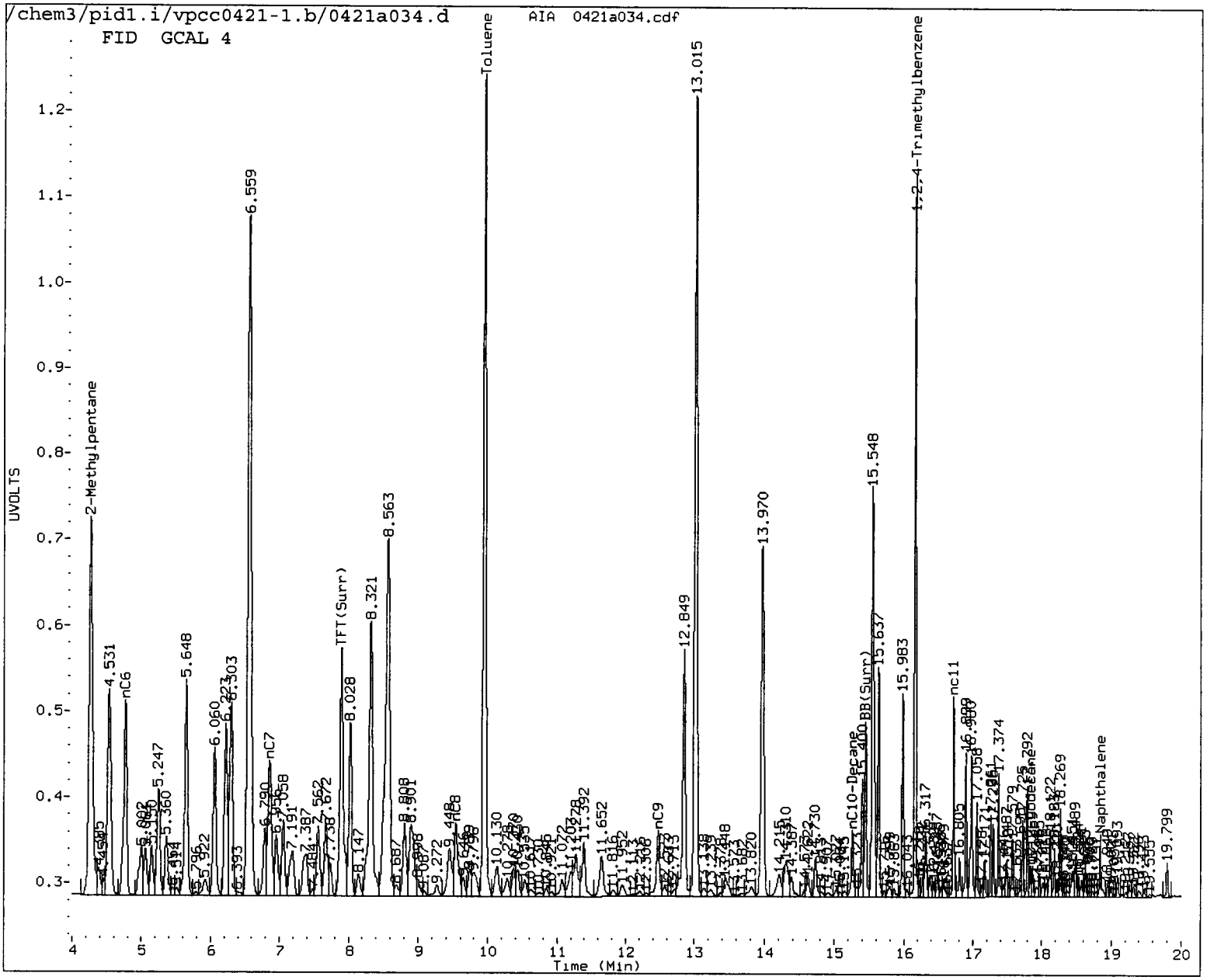
-BB(Surr) (15.447)

Min



Data File: /chem3/pid1.i/vpcc0421-1.b/0421a034.d/0421a034.cdf
Injection Date: 21-APR-2011 21:52
Instrument: pid1.i
Client Sample ID:

MH
4/27
4/22/11



MANUAL INTEGRATION

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

5. Other _____

Analyst: MM Date: 4/22/11

SS83 : 01614

Metals Raw Data
Preparation Bench Sheets and Notes

ARI Job ID: SS83

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: MH

Date: 4/21/11

Final Volume 50

Final Volume (Hg):

Sample ID SS83 OSPK, MBISPK

		Prepcode:	SWC		
		Spike Solution:	ICP Routine	ICP No GFA	GFA
		Standard No.:	2781-14		
		Vol Added (mL):	1.0		
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	

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

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

Additional Elements:

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

SS83 : 911616

1619

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: MH Date: 4/21/11

Matrix: Soil Block ID: #4 Block Temp: 92°C Thermometer: MP11

ARI Sample ID	Btl #	pH<2	Prep Code: SWC Initial Wt (g) ~~Vol (mL)~~	Prep Code: SWC Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
SS83 A	7	–	1.055	50.0			
" B	7	–	1.027				
" C	7	–	1.050				
" D	7	–	1.043				
" E	7	–	1.028				
" F	7	–	1.071				
" G	7	–	1.053				
" H	7	–	1.054				
" I	7	–	1.059				
" J	7	–	1.081				
" K	7	–	1.093				
" L	7	–	1.049				
" M	7	–	1.066				
" N	7	–	1.050				
" ~~O~~	19	–	1.068				
" ~~ODUP~~	19	–	1.067				
" ~~OSPK~~	19	–	1.065				
" MBI	–	–	–				
" MBISPK	–	–	–	50.0			

MH 4/21/11

Chemical/Reagent ID:

HNO_3: ~~20~~ MH 4/21/11 MP2086/I6167 HCl: I5951 H_2O_2: I6129 Tube Lot #: 101019I

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: KM Date: 4/21/11

Matrix: Water Block ID: #5 Block Temp: 90°C Thermometer: MP7

ARI Sample ID	Btl #	pH<2	Prep Code: TWC Initial Wt (g) Vol (mL)	Prep Code: TWC Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
SS83 P	7	✓	50.0	50.0			
" MB2	—	✓	↓	↓			
" MB2SPK	—	✓					
SS71 T	1	✓					
" MB2	—	✓					
" MB2SPK	—	✓					
SS82 A	4	✓					
" MB	—	✓	↓	↓			
" MBSPK	—	✓	50.0	50.0			

KM 4/21/11

Chemical/Reagent ID:

HNO_3: I6167 HCl: MP2081 H_2O_2: — Tube Lot #: 1010191

1621

SS83:01618

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: KM

Date: 4/21/11

Final Volume 50

Final Volume (Hg):

Sample ID SS83 MB2SPK
SS71 MB2SPK

		Prepcode:	TWC		
		Spike Solution:	ICP Routine	ICP No GFA	GFA
		Standard No.:	2781-14		
		Vol Added (mL):	0.5		
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		

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

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

Additional Elements:

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

SS83:061916

1622

Metals Raw Data
Run Logs, Calibrations, and Raw Data

ARI Job ID: SS83

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SAMPLE RUN LOG-ICP-OES-02
Perkin Elmer OPTIMA 7500
Serial No. – 077C8121202

IEC Date: 3-14-11 Analysis Date: 4-27-11 Analyst: MA

LR Date: 2-3-11 Page: 1 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD 0			2826-11
		2			-1
		3			-2
		4			-3
		5			-4
		ICV			2819-10
		ICB			
		CRI			
		ICSA			
		ICSAB			
		CCV1			
		CCB1			
		STC MB	SOIL	2	
		ST4Z MBZ	LEN	5	
		Bt			
		Ct			
		Dt			
		AtDup			✓
		At			
		ALSplk	D		✓
		ST7O B	SOIL	2	
		MBSplk	D	D	✓
		CCV2			
		CCB2			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SAMPLE RUN LOG-ICP-OES-02
Perkin Elmer OPTIMA 7500
Serial No. – 077C8121202

IEC Date: — Analysis Date: 4-27-11 Analyst: M

LR Date: — Page: 2 of 5

All corrections made by analyst unless otherwise noted. ~~M~~ 4-27-11

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SS71 MB2	TWC		
		T	↓		
		A	SWC	2	
		B			
		C			
		IDUP			Pb > IRL DIF
		I			
		~~I Spk~~		✓	
M		M ~~I Post~~	→	↓	
		MB2Spk	TWC	✓	
		CCV3			
		CCB3			
		SS71 MB1	SWC	2	
		D			
		E			
		F			
		G			
		H			
		I			
		K			
		L			
		MB1Spk	↓	↓	
		CCV4			
		CCB4			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SAMPLE RUN LOG-ICP-OES-02
Perkin Elmer OPTIMA 7500
Serial No. – 077C8121202

IEC Date: — Analysis Date: 4-27-11 Analyst: M

LR Date: — Page: 3 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SS83 MB2	TWC		
	✓	SS71 I	SWC	2	Confirms 1st Run
	✓	IDup			↓
		N			
		O			
		P			
		Q			
		R			
		S	↓	↓	
		SS83 MB2spl	TWC	✓	
		CCV5			
		CCB5			
		SS83 MB1	SWC	2	
		P	TWC		
		A	SWC	2	
		B			
		C			
		D			
		DDup		✓	
		D			
		Dspl		✓	
		MB1spl	↓	✓	
		CCV6			
		CCB6			

SS83 : 01623

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SAMPLE RUN LOG-ICP-OES-02
Perkin Elmer OPTIMA 7500
Serial No. – 077C8121202

IEC Date: — Analysis Date: 4-27-11 Analyst: M

LR Date: — Page: 4 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SS83 E	SWL	2	
		F			
		G			
		H			
		I			
		J			
		K			
		L			
		M			
		N			
		CCV7			
		CCB7			
		SS83 MB1	TWL		
		ADup		✓	
		A			
		Aspk		✓	
		BDup	SWL	2 ✓	
		B			
		Bspk		✓	
		F			
		G			
		MBspk	TWL	✓	
		CCV8			SCR Energy level ok
		CCB8			

4/28/11

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 4-27-11

OFT 2	Analyst 4-28	Peer 4-28-11	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	✓	✓	See Log
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	SS71
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 QAPs	✓	✓	Cal SS11

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	206.0 kPa	0.75 L/min

4/27/2011 8:13:11 AM Hg ReAlign... Actual peak offset (nm): 0.004
Drift (nm): -0.000 Slit adjustment: 0

Analysis Begun

Start Time: 4/27/2011 8:15:45 AM **Plasma On Time: 4/27/2011 7:27:25 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C8121202Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\BLKS.sif
Batch ID:
Results Data Set: BLANKS
Results Library: C:\pe\metals\Results\Results.mdb

Method Loaded
Method Name: 7300bcESI2FAST **Method Last Saved: 4/22/2011 3:43:08 PM**
IEC File: IEC7AMIN.iec **MSF File:**
Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: B1 **Date Collected: 4/27/2011 8:15:52 AM**
Data Type: Original

Dilution: 1X
User canceled analysis.

Analysis Begun

Start Time: 4/27/2011 8:17:47 AM **Plasma On Time: 4/27/2011 7:27:25 AM**

AT 4-27-11

Analysis Begun

Start Time: 4/27/2011 8:43:45 AM
Logged In Analyst: metals
Spectrometer Model: Optima 7300 DV, S/N 077C8121202
Plasma On Time: 4/27/2011 7:27:25 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRISET1.sif
Batch ID:
Results Data Set: I2110427
Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Autosampler Location: 1
Date Collected: 4/27/2011 8:43:46 AM
Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2231506.8	19668.00	0.88%	100.0	%
ScR 361.383	397969.8	2575.58	0.65%	100.0	%
Ag 328.068†	-1572.6	9.76	0.62%	[0.00]	mg/L
Al 308.215†	-156.9	6.94	4.42%	[0.00]	mg/L
As 188.979†	-14.5	3.00	20.68%	[0.00]	mg/L
B 249.677†	19.2	9.73	50.74%	[0.00]	mg/L
Ba 233.527†	46.9	1.42	3.04%	[0.00]	mg/L
Be 313.042†	969.2	14.36	1.48%	[0.00]	mg/L
Ca 317.933†	-375.7	10.78	2.87%	[0.00]	mg/L
Cd 228.802†	252.5	7.75	3.07%	[0.00]	mg/L
Co 228.616†	-124.2	2.30	1.85%	[0.00]	mg/L
Cr 267.716†	-47.5	5.17	10.90%	[0.00]	mg/L
Cu 324.752†	1637.5	18.24	1.11%	[0.00]	mg/L
Fe 273.955†	-26.8	2.04	7.60%	[0.00]	mg/L
K 766.490†	-646.0	18.64	2.89%	[0.00]	mg/L
Mg 279.077†	-200.2	10.21	5.10%	[0.00]	mg/L
Mn 257.610†	101.0	5.86	5.80%	[0.00]	mg/L
Mo 202.031†	44.1	3.19	7.24%	[0.00]	mg/L
Na 589.592†	104.8	30.06	28.69%	[0.00]	mg/L
Na 330.237†	-238.7	12.19	5.11%	[0.00]	mg/L
Ni 231.604†	-24.1	7.74	32.15%	[0.00]	mg/L
Pb 220.353†	-180.9	0.71	0.40%	[0.00]	mg/L
Sb 206.836†	19.1	2.01	10.55%	[0.00]	mg/L
Se 196.026†	-78.0	0.91	1.16%	[0.00]	mg/L
Si 288.158†	96.4	7.53	7.81%	[0.00]	mg/L
Sn 189.927†	-7.3	4.85	66.55%	[0.00]	mg/L
Sr 421.552†	-765.2	20.87	2.73%	[0.00]	mg/L
Ti 334.903†	590.5	31.93	5.41%	[0.00]	mg/L
Tl 190.801†	-18.1	5.62	31.05%	[0.00]	mg/L
V 292.402†	-201.4	5.67	2.81%	[0.00]	mg/L
Zn 206.200†	-4.0	0.89	22.05%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 4/27/2011 8:47:58 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2249793.2	20064.90	0.89%	100.8	%
ScR 361.383	401342.2	2131.49	0.53%	100.8	%
Ba 233.527†	71889.5	240.18	0.33%	[10]	mg/L
Cd 228.802†	278238.5	1324.09	0.48%	[10]	mg/L
Co 228.616†	315849.4	1057.78	0.33%	[10]	mg/L
Cr 267.716†	79782.9	210.46	0.26%	[10]	mg/L
Cu 324.752†	2317248.7	6265.11	0.27%	[10]	mg/L
Mn 257.610†	471598.0	2259.92	0.48%	[10]	mg/L
V 292.402†	1533834.8	9161.86	0.60%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 4/27/2011 8:49:40 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	206.0 kPa	0.75 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2264838.2	2147.54	0.09%	101.5	%
ScR 361.383	397916.4	3979.55	1.00%	99.99	%
Ag 328.068†	185496.3	809.95	0.44%	[1.0]	mg/L
As 188.979†	14205.3	136.99	0.96%	[10]	mg/L
B 249.677†	55522.4	230.10	0.41%	[10]	mg/L
Be 313.042†	4387680.8	32153.78	0.73%	[5.0]	mg/L
Na 589.592†	627716.4	3721.42	0.59%	[50]	mg/L
Ni 231.604†	36430.3	312.63	0.86%	[10]	mg/L
Pb 220.353†	83081.3	629.79	0.76%	[10]	mg/L
Se 196.026†	12277.4	80.93	0.66%	[10]	mg/L
Sr 421.552†	4326253.8	31833.48	0.74%	[5]	mg/L
Tl 190.801†	16558.2	108.47	0.66%	[10]	mg/L
Zn 206.200†	39921.1	232.39	0.58%	[10]	mg/L

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD4 **Date Collected: 4/27/2011 8:52:10 AM**
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2303940.3	5513.15	0.24%	103.2	%
ScR 361.383	409801.6	4590.60	1.12%	103.0	%
Mo 202.031†	160281.3	908.20	0.57%	[10]	mg/L
Sb 206.836†	24977.3	197.37	0.79%	[10]	mg/L
Si 288.158†	16573.5	138.75	0.84%	[10]	mg/L
Sn 189.927†	51008.1	201.99	0.40%	[10]	mg/L
Ti 334.903†	311737.7	762.33	0.24%	[10]	mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD5 **Date Collected: 4/27/2011 8:54:22 AM**
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2126870.8	14072.48	0.66%	95.31	%
ScR 361.383	403875.8	1571.56	0.39%	101.5	%
Al 308.215†	41861.8	54.93	0.13%	[30]	mg/L
Ca 317.933†	348747.7	1328.53	0.38%	[30]	mg/L
Fe 273.955†	127914.9	542.29	0.42%	[100]	mg/L
K 766.490†	183912.0	123.83	0.07%	[100]	mg/L
Mg 279.077†	37702.4	164.80	0.44%	[30]	mg/L
Na 330.237†	2792.0	14.01	0.50%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	185500	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1395	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1421	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	5552	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	7189	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	877500	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	11620	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	27820	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	31580	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	7978	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	231700	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1279	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1839	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1257	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	47160	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	16030	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	12550	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	27.92	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	3643	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	8308	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2498	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1228	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1657	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	5101	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	865300	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	31170	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1656	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	153400	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	3992	0.00000	1.000000	

==========

Analysis Begun

Start Time: 4/27/2011 8:58:47 AM **Plasma On Time: 4/27/2011 7:27:25 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C8121202 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\metals\Sample Information\CRISET1.sif
Batch ID:
Results Data Set: I2110427
Results Library: C:\pe\metals\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CV **Date Collected: 4/27/2011 8:58:48 AM**
Data Type: Original
Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2300825.1	103.1	%	0.64				0.62%
ScR 361.383	404590.4	101.7	%	0.63				0.62%
Ag 328.068†	194950.3	1.051	mg/L	0.0039	1.051	mg/L	0.0039	0.37%
Al 308.215†	2823.2	1.989	mg/L	0.0160	1.989	mg/L	0.0160	0.81%
As 188.979†	2885.8	2.038	mg/L	0.0120	2.038	mg/L	0.0120	0.59%
B 249.677†	5729.3	1.030	mg/L	0.0066	1.030	mg/L	0.0066	0.64%
Ba 233.527†	7221.2	1.004	mg/L	0.0057	1.004	mg/L	0.0057	0.57%
Be 313.042†	897832.0	1.023	mg/L	0.0033	1.023	mg/L	0.0033	0.32%
Ca 317.933†	23771.7	2.045	mg/L	0.0128	2.045	mg/L	0.0128	0.63%
Cd 228.802†	29186.4	1.042	mg/L	0.0046	1.042	mg/L	0.0046	0.44%
Co 228.616†	31254.2	0.9878	mg/L	0.00490	0.9878	mg/L	0.00490	0.50%
Cr 267.716†	8022.0	1.005	mg/L	0.0044	1.005	mg/L	0.0044	0.44%
Cu 324.752†	234659.0	1.013	mg/L	0.0051	1.013	mg/L	0.0051	0.50%
Fe 273.955†	2616.3	2.040	mg/L	0.0124	2.040	mg/L	0.0124	0.61%
K 766.490†	37253.3	20.26	mg/L	0.072	20.26	mg/L	0.072	0.35%
Mg 279.077†	2486.5	1.982	mg/L	0.0170	1.982	mg/L	0.0170	0.86%
Mn 257.610†	47198.5	1.001	mg/L	0.0042	1.001	mg/L	0.0042	0.42%
Mo 202.031†	15986.2	0.9973	mg/L	0.00560	0.9973	mg/L	0.00560	0.56%
Na 589.592†	652506.5	51.97	mg/L	0.196	51.97	mg/L	0.196	0.38%
Na 330.237†	1437.2	51.54	mg/L	0.030	51.54	mg/L	0.030	0.06%
Ni 231.604†	3830.9	1.053	mg/L	0.0021	1.053	mg/L	0.0021	0.20%
Pb 220.353†	16578.6	1.997	mg/L	0.0026	1.997	mg/L	0.0026	0.13%
Sb 206.836†	5063.5	2.034	mg/L	0.0114	2.034	mg/L	0.0114	0.56%
Se 196.026†	2539.4	2.068	mg/L	0.0011	2.068	mg/L	0.0011	0.05%
Si 288.158†	3415.6	2.067	mg/L	0.0098	2.067	mg/L	0.0098	0.47%
Sn 189.927†	5043.0	0.9908	mg/L	0.00476	0.9908	mg/L	0.00476	0.48%
Sr 421.552†	893383.2	1.033	mg/L	0.0030	1.033	mg/L	0.0030	0.29%
Ti 334.903†	30275.8	0.9695	mg/L	0.00552	0.9695	mg/L	0.00552	0.57%
Tl 190.801†	3359.3	2.029	mg/L	0.0114	2.029	mg/L	0.0114	0.56%
V 292.402†	152306.5	0.9981	mg/L	0.00486	0.9981	mg/L	0.00486	0.49%
Zn 206.200†	4056.4	1.016	mg/L	0.0051	1.016	mg/L	0.0051	0.50%

Sequence No.: 2
Sample ID: CB
Dilution: 1X

Autosampler Location: 1
Date Collected: 4/27/2011 9:02:03 AM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2259979.7	101.3	%	0.21				0.21%
ScR 361.383	410734.4	103.2	%	1.46				1.41%
Ag 328.068†	35.0	0.00019	mg/L	0.000439	0.00019	mg/L	0.000439	232.64%
Al 308.215†	-2.2	-0.00157	mg/L	0.007026	-0.00157	mg/L	0.007026	446.45%
As 188.979†	2.7	0.00192	mg/L	0.001978	0.00192	mg/L	0.001978	102.99%
B 249.677†	22.5	0.00406	mg/L	0.000974	0.00406	mg/L	0.000974	24.01%
Ba 233.527†	5.1	0.00071	mg/L	0.000314	0.00071	mg/L	0.000314	44.34%
Be 313.042†	87.5	0.00010	mg/L	0.000031	0.00010	mg/L	0.000031	31.48%
Ca 317.933†	21.1	0.00181	mg/L	0.001129	0.00181	mg/L	0.001129	62.26%
Cd 228.802†	4.3	0.00015	mg/L	0.000153	0.00015	mg/L	0.000153	103.61%
Co 228.616†	8.2	0.00026	mg/L	0.000111	0.00026	mg/L	0.000111	42.95%
Cr 267.716†	-4.9	-0.00061	mg/L	0.000340	-0.00061	mg/L	0.000340	55.43%
Cu 324.752†	22.1	0.00010	mg/L	0.000158	0.00010	mg/L	0.000158	165.52%
Fe 273.955†	3.7	0.00286	mg/L	0.001679	0.00286	mg/L	0.001679	58.66%
K 766.490†	59.3	0.03225	mg/L	0.027555	0.03225	mg/L	0.027555	85.46%
Mg 279.077†	4.9	0.00391	mg/L	0.002893	0.00391	mg/L	0.002893	73.92%
Mn 257.610†	8.0	0.00017	mg/L	0.000107	0.00017	mg/L	0.000107	63.28%
Mo 202.031†	-4.3	-0.00027	mg/L	0.000290	-0.00027	mg/L	0.000290	107.20%
Na 589.592†	20.1	0.00160	mg/L	0.003830	0.00160	mg/L	0.003830	239.02%
Na 330.237†	20.0	0.7164	mg/L	0.26853	0.7164	mg/L	0.26853	37.48%
Ni 231.604†	5.4	0.00149	mg/L	0.001007	0.00149	mg/L	0.001007	67.42%
Pb 220.353†	3.9	0.00047	mg/L	0.000560	0.00047	mg/L	0.000560	119.59%
Sb 206.836†	-0.7	-0.00027	mg/L	0.002041	-0.00027	mg/L	0.002041	753.02%
Se 196.026†	3.4	0.00273	mg/L	0.005611	0.00273	mg/L	0.005611	205.58%
Si 288.158†	2.1	0.00127	mg/L	0.006851	0.00127	mg/L	0.006851	538.84%
Sn 189.927†	4.1	0.00080	mg/L	0.000569	0.00080	mg/L	0.000569	71.37%
Sr 421.552†	122.0	0.00014	mg/L	0.000044	0.00014	mg/L	0.000044	30.90%
Ti 334.903†	-10.6	-0.00034	mg/L	0.000681	-0.00034	mg/L	0.000681	201.15%
Tl 190.801†	2.6	0.00156	mg/L	0.001481	0.00156	mg/L	0.001481	94.75%
V 292.402†	29.4	0.00019	mg/L	0.000159	0.00019	mg/L	0.000159	84.55%
Zn 206.200†	0.9	0.00023	mg/L	0.000545	0.00023	mg/L	0.000545	241.03%

Sequence No.: 3
Sample ID: CRI
Autosampler Location: 301
Date Collected: 4/27/2011 9:06:15 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2263466.6	101.4	%	1.38				1.36%
ScR 361.383	409273.6	102.8	%	0.76				0.74%
Ag 328.068†	663.4	0.00358	mg/L	0.000164	0.00358	mg/L	0.000164	4.59%
Al 308.215†	77.6	0.05548	mg/L	0.013073	0.05548	mg/L	0.013073	23.56%
As 188.979†	74.5	0.05247	mg/L	0.001023	0.05247	mg/L	0.001023	1.95%
B 249.677†	128.5	0.02315	mg/L	0.001053	0.02315	mg/L	0.001053	4.55%
Ba 233.527†	21.7	0.00301	mg/L	0.000403	0.00301	mg/L	0.000403	13.36%
Be 313.042†	910.9	0.00104	mg/L	0.000016	0.00104	mg/L	0.000016	1.54%
Ca 317.933†	601.5	0.05174	mg/L	0.000356	0.05174	mg/L	0.000356	0.69%
Cd 228.802†	67.4	0.00224	mg/L	0.000106	0.00224	mg/L	0.000106	4.74%
Co 228.616†	100.4	0.00317	mg/L	0.000146	0.00317	mg/L	0.000146	4.62%
Cr 267.716†	37.0	0.00463	mg/L	0.000284	0.00463	mg/L	0.000284	6.13%
Cu 324.752†	470.4	0.00203	mg/L	0.000191	0.00203	mg/L	0.000191	9.38%
Fe 273.955†	72.7	0.05683	mg/L	0.001925	0.05683	mg/L	0.001925	3.39%
K 766.490†	992.5	0.5397	mg/L	0.02469	0.5397	mg/L	0.02469	4.57%
Mg 279.077†	78.7	0.06259	mg/L	0.001432	0.06259	mg/L	0.001432	2.29%
Mn 257.610†	49.1	0.00105	mg/L	0.000057	0.00105	mg/L	0.000057	5.45%
Mo 202.031†	75.5	0.00471	mg/L	0.000296	0.00471	mg/L	0.000296	6.28%
Na 589.592†	6475.2	0.5158	mg/L	0.00400	0.5158	mg/L	0.00400	0.78%
Na 330.237†	19.7	0.7033	mg/L	0.40860	0.7033	mg/L	0.40860	58.09%
Ni 231.604†	40.5	0.01115	mg/L	0.000570	0.01115	mg/L	0.000570	5.11%
Pb 220.353†	186.3	0.02244	mg/L	0.000148	0.02244	mg/L	0.000148	0.66%
Sb 206.836†	130.7	0.05245	mg/L	0.001088	0.05245	mg/L	0.001088	2.07%
Se 196.026†	69.1	0.05628	mg/L	0.002997	0.05628	mg/L	0.002997	5.33%
Si 288.158†	115.6	0.06981	mg/L	0.005346	0.06981	mg/L	0.005346	7.66%
Sn 189.927†	58.2	0.01145	mg/L	0.000421	0.01145	mg/L	0.000421	3.68%
Sr 421.552†	980.7	0.00113	mg/L	0.000029	0.00113	mg/L	0.000029	2.59%
Ti 334.903†	146.2	0.00467	mg/L	0.000269	0.00467	mg/L	0.000269	5.76%
Tl 190.801†	87.0	0.05258	mg/L	0.002251	0.05258	mg/L	0.002251	4.28%
V 292.402†	470.3	0.00309	mg/L	0.000221	0.00309	mg/L	0.000221	7.15%
Zn 206.200†	43.1	0.01080	mg/L	0.000345	0.01080	mg/L	0.000345	3.19%

Sequence No.: 4
Sample ID: ICSA

Autosampler Location: 302
Date Collected: 4/27/2011 9:10:27 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2249823.1	100.8	%	0.42				0.41%
ScR 361.383	397258.5	99.82	%	3.318				3.32%
Ag 328.068†	38.8	0.00021	mg/L	0.000038	0.00021	mg/L	0.000038	18.08%
Al 308.215†	281002.2	201.4	mg/L	1.00	201.4	mg/L	1.00	0.50%
As 188.979†	41.9	0.02080	mg/L	0.005504	0.02080	mg/L	0.005504	26.47%
B 249.677†	-35.7	-0.00644	mg/L	0.000765	-0.00644	mg/L	0.000765	11.88%
Ba 233.527†	84.9	-0.00100	mg/L	0.000871	-0.00100	mg/L	0.000871	87.10%
Be 313.042†	74.2	0.00008	mg/L	0.000040	0.00008	mg/L	0.000040	52.65%
Ca 317.933†	1148621.9	98.81	mg/L	0.247	98.81	mg/L	0.247	0.25%
Cd 228.802†	31.0	0.00101	mg/L	0.000136	0.00101	mg/L	0.000136	13.43%
Co 228.616†	43.2	0.00135	mg/L	0.000127	0.00135	mg/L	0.000127	9.44%
Cr 267.716†	-13.8	-0.00111	mg/L	0.000190	-0.00111	mg/L	0.000190	17.10%
Cu 324.752†	-2476.6	-0.00125	mg/L	0.000050	-0.00125	mg/L	0.000050	3.97%
Fe 273.955†	251859.3	196.9	mg/L	1.45	196.9	mg/L	1.45	0.74%
K 766.490†	84.1	0.04573	mg/L	0.003717	0.04573	mg/L	0.003717	8.13%
Mg 279.077†	124567.7	99.03	mg/L	0.404	99.03	mg/L	0.404	0.41%
Mn 257.610†	22.9	0.00039	mg/L	0.000043	0.00039	mg/L	0.000043	11.06%
Mo 202.031†	79.2	0.00311	mg/L	0.000439	0.00311	mg/L	0.000439	14.14%
Na 589.592†	-107.1	-0.00853	mg/L	0.005960	-0.00853	mg/L	0.005960	69.85%
Na 330.237†	35.3	1.269	mg/L	0.3997	1.269	mg/L	0.3997	31.50%
Ni 231.604†	14.2	0.00389	mg/L	0.001047	0.00389	mg/L	0.001047	26.92%
Pb 220.353†	-266.6	-0.00434	mg/L	0.000354	-0.00434	mg/L	0.000354	8.15%
Sb 206.836†	5.2	0.00193	mg/L	0.003384	0.00193	mg/L	0.003384	175.53%
Se 196.026†	60.0	0.02542	mg/L	0.000339	0.02542	mg/L	0.000339	1.34%
Si 288.158†	-30.5	-0.00652	mg/L	0.008197	-0.00652	mg/L	0.008197	125.62%
Sn 189.927†	-108.9	0.00484	mg/L	0.001319	0.00484	mg/L	0.001319	27.26%
Sr 421.552†	3391.4	0.00392	mg/L	0.000064	0.00392	mg/L	0.000064	1.64%
Ti 334.903†	406.6	-0.00411	mg/L	0.001335	-0.00411	mg/L	0.001335	32.50%
Tl 190.801†	-25.3	0.01130	mg/L	0.004108	0.01130	mg/L	0.004108	36.36%
V 292.402†	2685.8	0.00134	mg/L	0.000045	0.00134	mg/L	0.000045	3.32%
Zn 206.200†	15.1	0.00377	mg/L	0.000281	0.00377	mg/L	0.000281	7.45%

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 303
Date Collected: 4/27/2011 9:14:41 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2306735.4	103.4	%	0.52				0.50%
ScR 361.383	407884.5	102.5	%	2.53				2.47%
Ag 328.068†	191447.0	1.032	mg/L	0.0030	1.032	mg/L	0.0030	0.29%
Al 308.215†	280857.5	201.3	mg/L	0.64	201.3	mg/L	0.64	0.32%
As 188.979†	1470.1	1.026	mg/L	0.0084	1.026	mg/L	0.0084	0.82%
B 249.677†	-27.9	-0.00722	mg/L	0.000177	-0.00722	mg/L	0.000177	2.45%
Ba 233.527†	7330.8	1.006	mg/L	0.0217	1.006	mg/L	0.0217	2.16%
Be 313.042†	901868.4	1.027	mg/L	0.0023	1.027	mg/L	0.0023	0.23%
Ca 317.933†	1157054.3	99.53	mg/L	0.259	99.53	mg/L	0.259	0.26%
Cd 228.802†	27655.1	0.9907	mg/L	0.00153	0.9907	mg/L	0.00153	0.15%
Co 228.616†	29049.3	0.9193	mg/L	0.00212	0.9193	mg/L	0.00212	0.23%
Cr 267.716†	8146.5	1.021	mg/L	0.0215	1.021	mg/L	0.0215	2.10%
Cu 324.752†	231203.7	1.007	mg/L	0.0004	1.007	mg/L	0.0004	0.04%
Fe 273.955†	253056.3	197.8	mg/L	0.34	197.8	mg/L	0.34	0.17%
K 766.490†	1102.0	0.5992	mg/L	0.01587	0.5992	mg/L	0.01587	2.65%
Mg 279.077†	125002.0	99.38	mg/L	0.181	99.38	mg/L	0.181	0.18%
Mn 257.610†	44833.4	0.9509	mg/L	0.00161	0.9509	mg/L	0.00161	0.17%
Mo 202.031†	82.3	0.00329	mg/L	0.000273	0.00329	mg/L	0.000273	8.31%
Na 589.592†	-200.3	-0.01595	mg/L	0.003261	-0.01595	mg/L	0.003261	20.44%
Na 330.237†	52.5	1.621	mg/L	0.1101	1.621	mg/L	0.1101	6.80%
Ni 231.604†	3676.3	1.010	mg/L	0.0221	1.010	mg/L	0.0221	2.19%
Pb 220.353†	7677.4	0.9526	mg/L	0.00648	0.9526	mg/L	0.00648	0.68%
Sb 206.836†	2539.3	1.010	mg/L	0.0100	1.010	mg/L	0.0100	0.99%
Se 196.026†	1309.8	1.043	mg/L	0.0196	1.043	mg/L	0.0196	1.88%
Si 288.158†	-44.8	-0.01145	mg/L	0.002714	-0.01145	mg/L	0.002714	23.70%
Sn 189.927†	-118.0	0.00390	mg/L	0.000692	0.00390	mg/L	0.000692	17.76%
Sr 421.552†	3358.2	0.00388	mg/L	0.000044	0.00388	mg/L	0.000044	1.14%
Ti 334.903†	433.5	-0.00353	mg/L	0.000662	-0.00353	mg/L	0.000662	18.74%
Tl 190.801†	1550.2	0.9587	mg/L	0.01534	0.9587	mg/L	0.01534	1.60%
V 292.402†	149384.2	0.9627	mg/L	0.00285	0.9627	mg/L	0.00285	0.30%
Zn 206.200†	3988.6	0.9991	mg/L	0.01971	0.9991	mg/L	0.01971	1.97%

Sequence No.: 6
Sample ID: CV

Autosampler Location: 7
Date Collected: 4/27/2011 9:19:30 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2285943.4	102.4	%	0.33				0.32%
ScR 361.383	403147.2	101.3	%	1.66				1.63%
Ag 328.068†	185410.3	0.9995	mg/L	0.00138	0.9995	mg/L	0.00138	0.14%
Al 308.215†	2872.1	2.025	mg/L	0.0346	2.025	mg/L	0.0346	1.71%
As 188.979†	2861.1	2.020	mg/L	0.0129	2.020	mg/L	0.0129	0.64%
B 249.677†	5695.5	1.024	mg/L	0.0167	1.024	mg/L	0.0167	1.63%
Ba 233.527†	7217.1	1.003	mg/L	0.0154	1.003	mg/L	0.0154	1.54%
Be 313.042†	895026.7	1.019	mg/L	0.0081	1.019	mg/L	0.0081	0.79%
Ca 317.933†	23858.4	2.052	mg/L	0.0344	2.052	mg/L	0.0344	1.68%
Cd 228.802†	28796.7	1.028	mg/L	0.0024	1.028	mg/L	0.0024	0.24%
Co 228.616†	31016.5	0.9803	mg/L	0.00242	0.9803	mg/L	0.00242	0.25%
Cr 267.716†	8056.2	1.009	mg/L	0.0190	1.009	mg/L	0.0190	1.88%
Cu 324.752†	226854.1	0.9788	mg/L	0.00272	0.9788	mg/L	0.00272	0.28%
Fe 273.955†	2628.9	2.050	mg/L	0.0281	2.050	mg/L	0.0281	1.37%
K 766.490†	37177.4	20.21	mg/L	0.026	20.21	mg/L	0.026	0.13%
Mg 279.077†	2510.6	2.002	mg/L	0.0531	2.002	mg/L	0.0531	2.65%
Mn 257.610†	47142.6	1.000	mg/L	0.0154	1.000	mg/L	0.0154	1.54%
Mo 202.031†	15885.3	0.9910	mg/L	0.00391	0.9910	mg/L	0.00391	0.39%
Na 589.592†	650116.8	51.78	mg/L	0.332	51.78	mg/L	0.332	0.64%
Na 330.237†	1450.8	52.02	mg/L	0.793	52.02	mg/L	0.793	1.52%
Ni 231.604†	3838.2	1.055	mg/L	0.0198	1.055	mg/L	0.0198	1.88%
Pb 220.353†	16852.1	2.030	mg/L	0.0084	2.030	mg/L	0.0084	0.41%
Sb 206.836†	5004.8	2.010	mg/L	0.0084	2.010	mg/L	0.0084	0.42%
Se 196.026†	2502.2	2.038	mg/L	0.0115	2.038	mg/L	0.0115	0.57%
Si 288.158†	3428.7	2.075	mg/L	0.0249	2.075	mg/L	0.0249	1.20%
Sn 189.927†	4995.6	0.9815	mg/L	0.00612	0.9815	mg/L	0.00612	0.62%
Sr 421.552†	892721.0	1.032	mg/L	0.0046	1.032	mg/L	0.0046	0.45%
Ti 334.903†	30259.4	0.9689	mg/L	0.00523	0.9689	mg/L	0.00523	0.54%
Tl 190.801†	3322.9	2.007	mg/L	0.0143	2.007	mg/L	0.0143	0.71%
V 292.402†	147515.0	0.9669	mg/L	0.00433	0.9669	mg/L	0.00433	0.45%
Zn 206.200†	4056.7	1.016	mg/L	0.0181	1.016	mg/L	0.0181	1.78%

Sequence No.: 7
Sample ID: CB (

Autosampler Location: 1
Date Collected: 4/27/2011 9:22:31 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2320857.1	104.0	%	0.48				0.46%
ScR 361.383	418306.5	105.1	%	0.12				0.11%
Ag 328.068†	47.6	0.00026	mg/L	0.000178	0.00026	mg/L	0.000178	69.12%
Al 308.215†	25.9	0.01857	mg/L	0.003386	0.01857	mg/L	0.003386	18.23%
As 188.979†	2.4	0.00169	mg/L	0.001249	0.00169	mg/L	0.001249	73.84%
B 249.677†	11.6	0.00209	mg/L	0.000574	0.00209	mg/L	0.000574	27.49%
Ba 233.527†	1.1	0.00015	mg/L	0.000519	0.00015	mg/L	0.000519	348.08%
Be 313.042†	36.0	0.00004	mg/L	0.000004	0.00004	mg/L	0.000004	9.33%
Ca 317.933†	32.7	0.00281	mg/L	0.001328	0.00281	mg/L	0.001328	47.19%
Cd 228.802†	6.5	0.00023	mg/L	0.000077	0.00023	mg/L	0.000077	33.76%
Co 228.616†	11.5	0.00036	mg/L	0.000137	0.00036	mg/L	0.000137	37.69%
Cr 267.716†	-3.1	-0.00039	mg/L	0.000576	-0.00039	mg/L	0.000576	147.89%
Cu 324.752†	12.3	0.00005	mg/L	0.000148	0.00005	mg/L	0.000148	275.54%
Fe 273.955†	6.3	0.00496	mg/L	0.001112	0.00496	mg/L	0.001112	22.43%
K 766.490†	64.0	0.03480	mg/L	0.001784	0.03480	mg/L	0.001784	5.13%
Mg 279.077†	11.3	0.00897	mg/L	0.005375	0.00897	mg/L	0.005375	59.95%
Mn 257.610†	0.0	0.00000	mg/L	0.000036	0.00000	mg/L	0.000036	>999.9%
Mo 202.031†	-5.2	-0.00033	mg/L	0.000106	-0.00033	mg/L	0.000106	32.50%
Na 589.592†	-168.3	-0.01341	mg/L	0.003526	-0.01341	mg/L	0.003526	26.30%
Na 330.237†	23.4	0.8362	mg/L	0.31072	0.8362	mg/L	0.31072	37.16%
Ni 231.604†	0.1	0.00002	mg/L	0.000381	0.00002	mg/L	0.000381	>999.9%
Pb 220.353†	-3.2	-0.00039	mg/L	0.000067	-0.00039	mg/L	0.000067	17.36%
Sb 206.836†	-0.7	-0.00029	mg/L	0.000995	-0.00029	mg/L	0.000995	345.29%
Se 196.026†	3.7	0.00300	mg/L	0.001366	0.00300	mg/L	0.001366	45.62%
Si 288.158†	-0.9	-0.00053	mg/L	0.000485	-0.00053	mg/L	0.000485	90.99%
Sn 189.927†	1.7	0.00033	mg/L	0.000617	0.00033	mg/L	0.000617	188.64%
Sr 421.552†	79.5	0.00009	mg/L	0.000024	0.00009	mg/L	0.000024	26.07%
Ti 334.903†	-12.9	-0.00041	mg/L	0.000741	-0.00041	mg/L	0.000741	178.95%
Tl 190.801†	4.5	0.00274	mg/L	0.001534	0.00274	mg/L	0.001534	56.06%
V 292.402†	12.4	0.00008	mg/L	0.000237	0.00008	mg/L	0.000237	300.55%
Zn 206.200†	3.8	0.00094	mg/L	0.000223	0.00094	mg/L	0.000223	23.63%

Sequence No.: 8 **Autosampler Location: 304**
Sample ID: ST70 MB SWC **Date Collected: 4/27/2011 9:26:43 AM**
Data Type: Original

Dilution: 2X

Nebulizer Parameters: ST70 MB SWC

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: ST70 MB SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2404882.0	107.8	%	1.13				1.05%
ScR 361.383	430458.7	108.2	%	1.79				1.65%
Ag 328.068†	105.5	0.00057	mg/L	0.000190	0.00114	mg/L	0.000380	33.36%
Al 308.215†	10.2	0.00733	mg/L	0.004054	0.01465	mg/L	0.008108	55.34%
As 188.979†	0.8	0.00053	mg/L	0.000542	0.00106	mg/L	0.001083	102.41%
B 249.677†	6.2	0.00112	mg/L	0.001101	0.00223	mg/L	0.002202	98.73%
Ba 233.527†	-2.7	-0.00038	mg/L	0.000013	-0.00076	mg/L	0.000026	3.42%
Be 313.042†	-13.4	-0.00002	mg/L	0.000028	-0.00003	mg/L	0.000056	181.43%
Ca 317.933†	150.5	0.01294	mg/L	0.000736	0.02589	mg/L	0.001471	5.68%
Cd 228.802†	0.7	0.00003	mg/L	0.000093	0.00005	mg/L	0.000186	363.39%
Co 228.616†	13.5	0.00043	mg/L	0.000131	0.00086	mg/L	0.000262	30.46%
Cr 267.716†	-6.9	-0.00087	mg/L	0.000526	-0.00173	mg/L	0.001053	60.68%
Cu 324.752†	-1.1	0.00000	mg/L	0.000150	-0.00001	mg/L	0.000301	>999.9%
Fe 273.955†	7.8	0.00607	mg/L	0.000962	0.01215	mg/L	0.001925	15.84%
K 766.490†	104.1	0.05658	mg/L	0.004539	0.1132	mg/L	0.00908	8.02%
Mg 279.077†	14.4	0.01143	mg/L	0.007031	0.02286	mg/L	0.014062	61.51%
Mn 257.610†	-3.9	-0.00008	mg/L	0.000070	-0.00017	mg/L	0.000140	84.83%
Mo 202.031†	-8.7	-0.00055	mg/L	0.000028	-0.00109	mg/L	0.000056	5.12%
Na 589.592†	-63.8	-0.00508	mg/L	0.002944	-0.01016	mg/L	0.005887	57.95%
Na 330.237†	25.9	0.9282	mg/L	0.67415	1.856	mg/L	1.3483	72.63%
Ni 231.604†	4.4	0.00119	mg/L	0.000880	0.00239	mg/L	0.001760	73.69%
Pb 220.353†	8.0	0.00097	mg/L	0.001180	0.00193	mg/L	0.002360	122.08%
Sb 206.836†	-0.6	-0.00022	mg/L	0.000526	-0.00044	mg/L	0.001052	236.69%
Se 196.026†	9.1	0.00739	mg/L	0.004895	0.01477	mg/L	0.009789	66.27%
Si 288.158†	8.0	0.00482	mg/L	0.002874	0.00963	mg/L	0.005747	59.67%
Sn 189.927†	5.8	0.00114	mg/L	0.000776	0.00228	mg/L	0.001552	68.22%
Sr 421.552†	89.0	0.00010	mg/L	0.000042	0.00021	mg/L	0.000084	41.08%
Ti 334.903†	-47.0	-0.00151	mg/L	0.001122	-0.00302	mg/L	0.002244	74.34%
Tl 190.801†	2.5	0.00150	mg/L	0.001534	0.00299	mg/L	0.003068	102.55%
V 292.402†	32.2	0.00021	mg/L	0.000088	0.00041	mg/L	0.000176	42.64%
Zn 206.200†	6.7	0.00167	mg/L	0.000505	0.00334	mg/L	0.001011	30.23%

Sequence No.: 9
Sample ID: ST42 MB2 LEN

Autosampler Location: 305
Date Collected: 4/27/2011 9:30:56 AM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 MB2 LEN

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: ST42 MB2 LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2285525.6	102.4	%	0.62				0.60%
ScR 361.383	419818.9	105.5	%	0.52				0.49%
Ag 328.068†	41.4	0.00022	mg/L	0.000080	0.00112	mg/L	0.000402	36.05%
Al 308.215†	13.8	0.00987	mg/L	0.013606	0.04934	mg/L	0.068030	137.89%
As 188.979†	-0.6	-0.00042	mg/L	0.001772	-0.00209	mg/L	0.008858	423.17%
B 249.677†	56.7	0.01021	mg/L	0.000158	0.05107	mg/L	0.000790	1.55%
Ba 233.527†	7.6	0.00105	mg/L	0.000703	0.00526	mg/L	0.003514	66.81%
Be 313.042†	-13.5	-0.00002	mg/L	0.000010	-0.00008	mg/L	0.000048	62.47%
Ca 317.933†	1913.3	0.1646	mg/L	0.00078	0.8229	mg/L	0.00389	0.47%
Cd 228.802†	9.6	0.00035	mg/L	0.000248	0.00174	mg/L	0.001240	71.20%
Co 228.616†	7.4	0.00024	mg/L	0.000251	0.00118	mg/L	0.001254	106.38%
Cr 267.716†	-3.8	-0.00048	mg/L	0.000466	-0.00240	mg/L	0.002330	97.24%
Cu 324.752†	103.5	0.00045	mg/L	0.000057	0.00224	mg/L	0.000286	12.81%
Fe 273.955†	3.4	0.00264	mg/L	0.000829	0.01318	mg/L	0.004146	31.47%
K 766.490†	138.9	0.07551	mg/L	0.021616	0.3776	mg/L	0.10808	28.63%
Mg 279.077†	31.1	0.02472	mg/L	0.002572	0.1236	mg/L	0.01286	10.40%
Mn 257.610†	1.3	0.00003	mg/L	0.000032	0.00014	mg/L	0.000158	111.74%
Mo 202.031†	-3.4	-0.00022	mg/L	0.000197	-0.00109	mg/L	0.000987	90.58%
Na 589.592†	3673763.1	292.6	mg/L	1.47	1463	mg/L	7.3	0.50%
Na 330.237†	8277.2	296.5	mg/L	0.95	1482	mg/L	4.7	0.32%
Ni 231.604†	14.1	0.00387	mg/L	0.000936	0.01933	mg/L	0.004680	24.21%
Pb 220.353†	-3.6	-0.00044	mg/L	0.000842	-0.00218	mg/L	0.004211	193.27%
Sb 206.836†	-3.3	-0.00133	mg/L	0.001458	-0.00665	mg/L	0.007291	109.70%
Se 196.026†	2.0	0.00158	mg/L	0.001206	0.00792	mg/L	0.006029	76.12%
Si 288.158†	28.3	0.01710	mg/L	0.002705	0.08550	mg/L	0.013525	15.82%
Sn 189.927†	1.5	0.00033	mg/L	0.000832	0.00165	mg/L	0.004159	251.52%
Sr 421.552†	148.7	0.00017	mg/L	0.000006	0.00086	mg/L	0.000029	3.33%
Ti 334.903†	-24.1	-0.00080	mg/L	0.000332	-0.00401	mg/L	0.001661	41.45%
Tl 190.801†	7.0	0.00422	mg/L	0.000866	0.02111	mg/L	0.004331	20.52%
V 292.402†	-9.8	-0.00007	mg/L	0.000159	-0.00033	mg/L	0.000795	239.83%
Zn 206.200†	9.2	0.00230	mg/L	0.000235	0.01151	mg/L	0.001177	10.23%

Sequence No.: 10
Sample ID: ST42 Bt LEN

Autosampler Location: 306
Date Collected: 4/27/2011 9:35:26 AM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 Bt LEN

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: ST42 Bt LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2299748.7	103.1	%	0.09				0.09%
ScR 361.383	417632.4	104.9	%	1.01				0.96%
Ag 328.068†	31.6	0.00017	mg/L	0.000279	0.00085	mg/L	0.001395	164.81%
Al 308.215†	74.6	0.05341	mg/L	0.014869	0.2670	mg/L	0.07435	27.84%
As 188.979†	5.0	0.00326	mg/L	0.002782	0.01629	mg/L	0.013912	85.43%
B 249.677†	82.7	0.01489	mg/L	0.001522	0.07445	mg/L	0.007608	10.22%
Ba 233.527†	101.4	0.01410	mg/L	0.000250	0.07051	mg/L	0.001248	1.77%
Be 313.042†	-4.4	-0.00001	mg/L	0.000020	-0.00003	mg/L	0.000102	391.99%
Ca 317.933†	33969.5	2.922	mg/L	0.0211	14.61	mg/L	0.105	0.72%
Cd 228.802†	55.5	0.00199	mg/L	0.000101	0.00993	mg/L	0.000506	5.10%
Co 228.616†	19.3	0.00061	mg/L	0.000064	0.00303	mg/L	0.000320	10.57%
Cr 267.716†	-1.4	-0.00028	mg/L	0.000290	-0.00142	mg/L	0.001450	102.26%
Cu 324.752†	442.3	0.00191	mg/L	0.000073	0.00953	mg/L	0.000365	3.83%
Fe 273.955†	34.6	0.02708	mg/L	0.003115	0.1354	mg/L	0.01557	11.50%
K 766.490†	1674.4	0.9104	mg/L	0.03881	4.552	mg/L	0.1940	4.26%
Mg 279.077†	1305.1	1.038	mg/L	0.0104	5.192	mg/L	0.0520	1.00%
Mn 257.610†	348.0	0.00737	mg/L	0.000137	0.03687	mg/L	0.000685	1.86%
Mo 202.031†	2.8	0.00012	mg/L	0.000256	0.00059	mg/L	0.001278	215.33%
Na 589.592†	3632141.7	289.3	mg/L	0.84	1447	mg/L	4.2	0.29%
Na 330.237†	8154.1	292.0	mg/L	3.35	1460	mg/L	16.7	1.15%
Ni 231.604†	13.1	0.00360	mg/L	0.000691	0.01802	mg/L	0.003453	19.16%
Pb 220.353†	28.5	0.00344	mg/L	0.000846	0.01718	mg/L	0.004232	24.63%
Sb 206.836†	-3.1	-0.00125	mg/L	0.002864	-0.00626	mg/L	0.014320	228.67%
Se 196.026†	9.8	0.00744	mg/L	0.001139	0.03721	mg/L	0.005693	15.30%
Si 288.158†	650.3	0.3925	mg/L	0.00319	1.962	mg/L	0.0160	0.81%
Sn 189.927†	-6.3	-0.00046	mg/L	0.000185	-0.00229	mg/L	0.000925	40.41%
Sr 421.552†	18495.0	0.02138	mg/L	0.000019	0.1069	mg/L	0.00009	0.09%
Ti 334.903†	20.3	0.00015	mg/L	0.000193	0.00073	mg/L	0.000965	132.67%
Tl 190.801†	6.4	0.00385	mg/L	0.002281	0.01926	mg/L	0.011406	59.21%
V 292.402†	43.9	0.00028	mg/L	0.000348	0.00142	mg/L	0.001740	122.58%
Zn 206.200†	50.4	0.01262	mg/L	0.000899	0.06310	mg/L	0.004493	7.12%

Sequence No.: 11
Sample ID: ST42 Ct LEN

Autosampler Location: 307
Date Collected: 4/27/2011 9:39:56 AM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 Ct LEN

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: ST42 Ct LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2310636.6	103.5	%	0.57				0.55%
ScR 361.383	417495.8	104.9	%	1.47				1.40%
Ag 328.068†	53.8	0.00025	mg/L	0.000246	0.00124	mg/L	0.001231	98.94%
Al 308.215†	174.3	0.1245	mg/L	0.00548	0.6224	mg/L	0.02741	4.40%
As 188.979†	6.4	0.00408	mg/L	0.002882	0.02038	mg/L	0.014410	70.70%
B 249.677†	92.9	0.01673	mg/L	0.001552	0.08366	mg/L	0.007761	9.28%
Ba 233.527†	140.8	0.01953	mg/L	0.000478	0.09766	mg/L	0.002391	2.45%
Be 313.042†	137.2	0.00016	mg/L	0.000045	0.00078	mg/L	0.000223	28.53%
Ca 317.933†	57125.2	4.914	mg/L	0.0449	24.57	mg/L	0.225	0.91%
Cd 228.802†	234.0	0.00840	mg/L	0.000200	0.04198	mg/L	0.001001	2.38%
Co 228.616†	111.9	0.00354	mg/L	0.000137	0.01769	mg/L	0.000684	3.87%
Cr 267.716†	1.3	0.00001	mg/L	0.000899	0.00007	mg/L	0.004497	>999.9%
Cu 324.752†	373.7	0.00165	mg/L	0.000132	0.00823	mg/L	0.000658	8.00%
Fe 273.955†	1011.1	0.7904	mg/L	0.00699	3.952	mg/L	0.0350	0.88%
K 766.490†	2191.6	1.192	mg/L	0.0095	5.958	mg/L	0.0477	0.80%
Mg 279.077†	2049.4	1.630	mg/L	0.0100	8.152	mg/L	0.0500	0.61%
Mn 257.610†	11015.9	0.2336	mg/L	0.00159	1.168	mg/L	0.0080	0.68%
Mo 202.031†	4.4	0.00018	mg/L	0.000136	0.00091	mg/L	0.000680	74.52%
Na 589.592†	3571414.9	284.5	mg/L	0.89	1422	mg/L	4.4	0.31%
Na 330.237†	7850.5	281.2	mg/L	0.87	1406	mg/L	4.4	0.31%
Ni 231.604†	27.1	0.00743	mg/L	0.001093	0.03715	mg/L	0.005467	14.71%
Pb 220.353†	-0.4	-0.00007	mg/L	0.000983	-0.00035	mg/L	0.004917	>999.9%
Sb 206.836†	-1.6	-0.00065	mg/L	0.000863	-0.00324	mg/L	0.004313	133.08%
Se 196.026†	12.5	0.00929	mg/L	0.003312	0.04644	mg/L	0.016559	35.65%
Si 288.158†	1069.8	0.6457	mg/L	0.01113	3.228	mg/L	0.0556	1.72%
Sn 189.927†	-9.7	-0.00060	mg/L	0.000352	-0.00298	mg/L	0.001762	59.10%
Sr 421.552†	28554.3	0.03300	mg/L	0.000218	0.1650	mg/L	0.00109	0.66%
Ti 334.903†	21.7	-0.00016	mg/L	0.000582	-0.00078	mg/L	0.002910	373.17%
Tl 190.801†	4.9	0.00304	mg/L	0.001802	0.01522	mg/L	0.009012	59.23%
V 292.402†	3.8	0.00000	mg/L	0.000270	-0.00001	mg/L	0.001348	>999.9%
Zn 206.200†	42.0	0.01051	mg/L	0.001203	0.05254	mg/L	0.006016	11.45%

Sequence No.: 12
Sample ID: ST42 Dt LEN
Autosampler Location: 308
Date Collected: 4/27/2011 9:44:11 AM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 Dt LEN

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: ST42 Dt LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2322703.6	104.1	%	1.33				1.28%
ScR 361.383	429556.6	107.9	%	0.41				0.38%
Ag 328.068†	85.2	0.00045	mg/L	0.000101	0.00227	mg/L	0.000507	22.37%
Al 308.215†	91.6	0.06555	mg/L	0.009106	0.3278	mg/L	0.04553	13.89%
As 188.979†	3.2	0.00212	mg/L	0.000844	0.01062	mg/L	0.004221	39.75%
B 249.677†	69.9	0.01259	mg/L	0.000412	0.06293	mg/L	0.002058	3.27%
Ba 233.527†	98.8	0.01369	mg/L	0.000456	0.06845	mg/L	0.002281	3.33%
Be 313.042†	55.7	0.00006	mg/L	0.000007	0.00031	mg/L	0.000035	11.11%
Ca 317.933†	16018.4	1.378	mg/L	0.0120	6.890	mg/L	0.0601	0.87%
Cd 228.802†	2.9	0.00010	mg/L	0.000143	0.00049	mg/L	0.000716	145.86%
Co 228.616†	13.1	0.00041	mg/L	0.000097	0.00206	mg/L	0.000486	23.63%
Cr 267.716†	0.2	-0.00003	mg/L	0.000868	-0.00014	mg/L	0.004339	>999.9%
Cu 324.752†	783.9	0.00341	mg/L	0.000300	0.01707	mg/L	0.001500	8.79%
Fe 273.955†	908.6	0.7103	mg/L	0.00298	3.551	mg/L	0.0149	0.42%
K 766.490†	905.7	0.4924	mg/L	0.01893	2.462	mg/L	0.0946	3.84%
Mg 279.077†	1127.4	0.8968	mg/L	0.01336	4.484	mg/L	0.0668	1.49%
Mn 257.610†	1511.7	0.03206	mg/L	0.000130	0.1603	mg/L	0.00065	0.40%
Mo 202.031†	0.4	0.00000	mg/L	0.000228	-0.00001	mg/L	0.001140	>999.9%
Na 589.592†	3585960.0	285.6	mg/L	1.27	1428	mg/L	6.3	0.44%
Na 330.237†	8177.2	292.9	mg/L	1.91	1464	mg/L	9.5	0.65%
Ni 231.604†	10.4	0.00285	mg/L	0.000826	0.01427	mg/L	0.004131	28.95%
Pb 220.353†	3.0	0.00033	mg/L	0.000789	0.00163	mg/L	0.003944	241.35%
Sb 206.836†	-3.7	-0.00149	mg/L	0.002018	-0.00747	mg/L	0.010091	135.04%
Se 196.026†	6.8	0.00527	mg/L	0.001387	0.02636	mg/L	0.006936	26.31%
Si 288.158†	397.0	0.2396	mg/L	0.00352	1.198	mg/L	0.0176	1.47%
Sn 189.927†	-0.6	0.00024	mg/L	0.000277	0.00120	mg/L	0.001386	115.17%
Sr 421.552†	11542.3	0.01334	mg/L	0.000092	0.06670	mg/L	0.000461	0.69%
Ti 334.903†	-13.1	-0.00066	mg/L	0.000616	-0.00330	mg/L	0.003080	93.28%
Tl 190.801†	0.4	0.00032	mg/L	0.001211	0.00161	mg/L	0.006056	375.37%
V 292.402†	142.8	0.00088	mg/L	0.000161	0.00439	mg/L	0.000805	18.33%
Zn 206.200†	12.0	0.00302	mg/L	0.000326	0.01509	mg/L	0.001631	10.81%

Sequence No.: 13 **Autosampler Location: 309**
Sample ID: ST42 AtDUP LEN **Date Collected: 4/27/2011 9:48:41 AM**
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 AtDUP LEN

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: ST42 AtDUP LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2316054.7	103.8	%	1.06				1.02%
ScR 361.383	421368.5	105.9	%	0.54				0.51%
Ag 328.068†	37.7	0.00020	mg/L	0.000092	0.00101	mg/L	0.000459	45.47%
Al 308.215†	70.3	0.05034	mg/L	0.000818	0.2517	mg/L	0.00409	1.63%
As 188.979†	3.2	0.00193	mg/L	0.000983	0.00965	mg/L	0.004914	50.92%
B 249.677†	28.6	0.00515	mg/L	0.000783	0.02574	mg/L	0.003913	15.20%
Ba 233.527†	84.9	0.01181	mg/L	0.000625	0.05903	mg/L	0.003127	5.30%
Be 313.042†	34.1	0.00004	mg/L	0.000012	0.00019	mg/L	0.000060	30.73%
Ca 317.933†	37822.9	3.254	mg/L	0.0136	16.27	mg/L	0.068	0.42%
Cd 228.802†	7.7	0.00027	mg/L	0.000097	0.00135	mg/L	0.000487	36.00%
Co 228.616†	6.8	0.00021	mg/L	0.000186	0.00106	mg/L	0.000929	87.72%
Cr 267.716†	-0.6	-0.00020	mg/L	0.000317	-0.00098	mg/L	0.001587	162.49%
Cu 324.752†	540.2	0.00233	mg/L	0.000044	0.01164	mg/L	0.000219	1.89%
Fe 273.955†	16.6	0.01295	mg/L	0.001085	0.06474	mg/L	0.005426	8.38%
K 766.490†	1312.5	0.7137	mg/L	0.00928	3.568	mg/L	0.0464	1.30%
Mg 279.077†	1375.6	1.095	mg/L	0.0060	5.473	mg/L	0.0302	0.55%
Mn 257.610†	273.7	0.00580	mg/L	0.000083	0.02898	mg/L	0.000416	1.44%
Mo 202.031†	0.1	-0.00005	mg/L	0.000149	-0.00026	mg/L	0.000745	286.68%
Na 589.592†	3570097.6	284.4	mg/L	3.56	1422	mg/L	17.8	1.25%
Na 330.237†	7875.1	282.1	mg/L	1.46	1410	mg/L	7.3	0.52%
Ni 231.604†	11.4	0.00312	mg/L	0.000559	0.01560	mg/L	0.002794	17.91%
Pb 220.353†	5.1	0.00062	mg/L	0.000865	0.00308	mg/L	0.004326	140.67%
Sb 206.836†	-2.6	-0.00103	mg/L	0.002887	-0.00515	mg/L	0.014433	280.18%
Se 196.026†	8.4	0.00623	mg/L	0.002620	0.03114	mg/L	0.013099	42.06%
Si 288.158†	441.6	0.2666	mg/L	0.00289	1.333	mg/L	0.0145	1.09%
Sn 189.927†	-4.4	0.00000	mg/L	0.000874	-0.00001	mg/L	0.004372	>999.9%
Sr 421.552†	22204.4	0.02566	mg/L	0.000187	0.1283	mg/L	0.00093	0.73%
Ti 334.903†	9.0	-0.00027	mg/L	0.000211	-0.00137	mg/L	0.001054	76.66%
Tl 190.801†	5.3	0.00318	mg/L	0.000547	0.01590	mg/L	0.002736	17.20%
V 292.402†	24.8	0.00016	mg/L	0.000081	0.00081	mg/L	0.000407	50.43%
Zn 206.200†	14.0	0.00350	mg/L	0.000329	0.01749	mg/L	0.001644	9.40%

Sequence No.: 14
Sample ID: ST42 At LEN

Autosampler Location: 310
Date Collected: 4/27/2011 9:52:55 AM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 At LEN

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: ST42 At LEN

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2256682.5	101.1	%	1.06				1.04%
ScR 361.383	419421.5	105.4	%	1.10				1.05%
Ag 328.068†	32.5	0.00017	mg/L	0.000067	0.00087	mg/L	0.000334	38.27%
Al 308.215†	60.3	0.04321	mg/L	0.019059	0.2160	mg/L	0.09530	44.11%
As 188.979†	3.3	0.00200	mg/L	0.002772	0.01001	mg/L	0.013859	138.45%
B 249.677†	26.7	0.00481	mg/L	0.000435	0.02405	mg/L	0.002175	9.04%
Ba 233.527†	84.2	0.01171	mg/L	0.000458	0.05857	mg/L	0.002291	3.91%
Be 313.042†	-8.7	-0.00001	mg/L	0.000016	-0.00005	mg/L	0.000079	157.57%
Ca 317.933†	39159.8	3.369	mg/L	0.0267	16.84	mg/L	0.133	0.79%
Cd 228.802†	9.7	0.00034	mg/L	0.000109	0.00171	mg/L	0.000544	31.76%
Co 228.616†	8.2	0.00026	mg/L	0.000192	0.00128	mg/L	0.000961	75.22%
Cr 267.716†	-2.3	-0.00041	mg/L	0.000562	-0.00203	mg/L	0.002809	138.17%
Cu 324.752†	561.7	0.00242	mg/L	0.000022	0.01210	mg/L	0.000110	0.91%
Fe 273.955†	17.0	0.01331	mg/L	0.002112	0.06654	mg/L	0.010560	15.87%
K 766.490†	1081.7	0.5882	mg/L	0.01112	2.941	mg/L	0.0556	1.89%
Mg 279.077†	1320.1	1.050	mg/L	0.0163	5.252	mg/L	0.0815	1.55%
Mn 257.610†	280.2	0.00594	mg/L	0.000067	0.02968	mg/L	0.000337	1.14%
Mo 202.031†	0.7	-0.00002	mg/L	0.000081	-0.00009	mg/L	0.000403	434.47%
Na 589.592†	3590558.9	286.0	mg/L	4.52	1430	mg/L	22.6	1.58%
Na 330.237†	8061.4	288.7	mg/L	1.86	1444	mg/L	9.3	0.65%
Ni 231.604†	14.7	0.00404	mg/L	0.000698	0.02021	mg/L	0.003489	17.26%
Pb 220.353†	-6.9	-0.00082	mg/L	0.000629	-0.00411	mg/L	0.003145	76.50%
Sb 206.836†	-4.8	-0.00192	mg/L	0.001467	-0.00959	mg/L	0.007334	76.47%
Se 196.026†	7.0	0.00512	mg/L	0.002032	0.02560	mg/L	0.010158	39.68%
Si 288.158†	449.3	0.2712	mg/L	0.00327	1.356	mg/L	0.0163	1.20%
Sn 189.927†	-3.8	0.00015	mg/L	0.001004	0.00077	mg/L	0.005019	650.36%
Sr 421.552†	22302.0	0.02578	mg/L	0.000061	0.1289	mg/L	0.00030	0.24%
Ti 334.903†	-4.1	-0.00072	mg/L	0.000597	-0.00358	mg/L	0.002985	83.48%
Tl 190.801†	2.7	0.00164	mg/L	0.002486	0.00821	mg/L	0.012428	151.41%
V 292.402†	22.4	0.00014	mg/L	0.000087	0.00072	mg/L	0.000436	60.15%
Zn 206.200†	17.4	0.00435	mg/L	0.000054	0.02173	mg/L	0.000269	1.24%

Sequence No.: 15 **Autosampler Location: 311**
Sample ID: ST42 AtSPK LEN **Date Collected: 4/27/2011 9:57:24 AM**
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 AtSPK LEN

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: ST42 AtSPK LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2270168.7	101.7	%	0.35				0.34%
ScR 361.383	414049.3	104.0	%	0.98				0.94%
Ag 328.068†	39770.2	0.2144	mg/L	0.00152	1.072	mg/L	0.0076	0.71%
Al 308.215†	1242.6	0.8865	mg/L	0.00483	4.433	mg/L	0.0241	0.54%
As 188.979†	1215.8	0.8552	mg/L	0.00429	4.276	mg/L	0.0214	0.50%
B 249.677†	32.9	0.00545	mg/L	0.000391	0.02723	mg/L	0.001956	7.18%
Ba 233.527†	5993.3	0.8335	mg/L	0.00683	4.168	mg/L	0.0342	0.82%
Be 313.042†	177159.2	0.2018	mg/L	0.00074	1.009	mg/L	0.0037	0.37%
Ca 317.933†	85309.7	7.339	mg/L	0.0085	36.69	mg/L	0.043	0.12%
Cd 228.802†	6030.1	0.2137	mg/L	0.00157	1.069	mg/L	0.0079	0.73%
Co 228.616†	6390.0	0.2021	mg/L	0.00132	1.010	mg/L	0.0066	0.65%
Cr 267.716†	1648.8	0.2062	mg/L	0.00167	1.031	mg/L	0.0084	0.81%
Cu 324.752†	47816.2	0.2064	mg/L	0.00257	1.032	mg/L	0.0129	1.25%
Fe 273.955†	1070.2	0.8356	mg/L	0.00572	4.178	mg/L	0.0286	0.68%
K 766.490†	8821.1	4.796	mg/L	0.0093	23.98	mg/L	0.046	0.19%
Mg 279.077†	6652.9	5.294	mg/L	0.0424	26.47	mg/L	0.212	0.80%
Mn 257.610†	9673.1	0.2053	mg/L	0.00155	1.027	mg/L	0.0078	0.76%
Mo 202.031†	11.6	0.00059	mg/L	0.000455	0.00294	mg/L	0.002276	77.47%
Na 589.592†	3696895.4	294.5	mg/L	0.58	1472	mg/L	2.9	0.20%
Na 330.237†	8115.5	290.6	mg/L	1.04	1453	mg/L	5.2	0.36%
Ni 231.604†	768.1	0.2109	mg/L	0.00249	1.054	mg/L	0.0124	1.18%
Pb 220.353†	6846.7	0.8244	mg/L	0.00488	4.122	mg/L	0.0244	0.59%
Sb 206.836†	1.8	-0.00065	mg/L	0.000790	-0.00323	mg/L	0.003951	122.51%
Se 196.026†	1089.5	0.8858	mg/L	0.00320	4.429	mg/L	0.0160	0.36%
Si 288.158†	450.5	0.2733	mg/L	0.00174	1.366	mg/L	0.0087	0.64%
Sn 189.927†	-14.4	-0.00088	mg/L	0.000357	-0.00439	mg/L	0.001784	40.65%
Sr 421.552†	200583.7	0.2318	mg/L	0.00045	1.159	mg/L	0.0023	0.20%
Ti 334.903†	40.1	-0.00002	mg/L	0.000391	-0.00009	mg/L	0.001957	>999.9%
Tl 190.801†	1332.4	0.8039	mg/L	0.00838	4.020	mg/L	0.0419	1.04%
V 292.402†	30873.4	0.2022	mg/L	0.00148	1.011	mg/L	0.0074	0.73%
Zn 206.200†	847.6	0.2124	mg/L	0.00035	1.062	mg/L	0.0017	0.16%

Sequence No.: 16
Sample ID: ST70 B SWC

Autosampler Location: 312
Date Collected: 4/27/2011 10:01:38 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: ST70 B SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: ST70 B SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2362474.3	105.9	%	0.39				0.37%
ScR 361.383	415811.7	104.5	%	2.27				2.17%
Ag 328.068†	2811.9	0.01501	mg/L	0.000277	0.03002	mg/L	0.000555	1.85%
Al 308.215†	121261.6	86.88	mg/L	0.168	173.8	mg/L	0.34	0.19%
As 188.979†	37.9	0.06887	mg/L	0.001723	0.1377	mg/L	0.00345	2.50%
B 249.677†	48.3	0.00856	mg/L	0.000221	0.01712	mg/L	0.000443	2.59%
Ba 233.527†	9046.8	1.250	mg/L	0.0298	2.500	mg/L	0.0595	2.38%
Be 313.042†	1290.4	0.00126	mg/L	0.000065	0.00252	mg/L	0.000131	5.19%
Ca 317.933†	1115529.0	95.96	mg/L	0.164	191.9	mg/L	0.33	0.17%
Cd 228.802†	1560.0	0.05604	mg/L	0.000245	0.1121	mg/L	0.00049	0.44%
Co 228.616†	2018.5	0.05335	mg/L	0.000315	0.1067	mg/L	0.00063	0.59%
Cr 267.716†	7550.8	0.9489	mg/L	0.02147	1.898	mg/L	0.0429	2.26%
Cu 324.752†	45133.2	0.1990	mg/L	0.00056	0.3980	mg/L	0.00112	0.28%
Fe 273.955†	158324.7	123.8	mg/L	0.24	247.5	mg/L	0.47	0.19%
K 766.490†	11235.8	6.109	mg/L	0.0285	12.22	mg/L	0.057	0.47%
Mg 279.077†	29555.6	23.46	mg/L	0.057	46.92	mg/L	0.115	0.24%
Mn 257.610†	62344.6	1.322	mg/L	0.0052	2.645	mg/L	0.0104	0.39%
Mo 202.031†	141.7	0.00706	mg/L	0.000180	0.01412	mg/L	0.000360	2.55%
Na 589.592†	66685.2	5.312	mg/L	0.0245	10.62	mg/L	0.049	0.46%
Na 330.237†	162.6	7.345	mg/L	0.1940	14.69	mg/L	0.388	2.64%
Ni 231.604†	454.2	0.1247	mg/L	0.00472	0.2494	mg/L	0.00943	3.78%
Pb 220.353†	2513.2	0.3138	mg/L	0.00086	0.6276	mg/L	0.00171	0.27%
Sb 206.836†	20.2	0.00947	mg/L	0.003470	0.01895	mg/L	0.006939	36.62%
Se 196.026†	46.2	0.02107	mg/L	0.003398	0.04214	mg/L	0.006797	16.13%
Si 288.158†	3815.8	2.305	mg/L	0.0571	4.611	mg/L	0.1142	2.48%
Sn 189.927†	-66.7	0.01458	mg/L	0.000864	0.02917	mg/L	0.001728	5.93%
Sr 421.552†	430880.5	0.4980	mg/L	0.00164	0.9960	mg/L	0.00329	0.33%
Ti 334.903†	197555.8	6.320	mg/L	0.0235	12.64	mg/L	0.047	0.37%
Tl 190.801†	-5.5	0.01227	mg/L	0.006693	0.02455	mg/L	0.013387	54.54%
V 292.402†	60024.8	0.3819	mg/L	0.00031	0.7639	mg/L	0.00062	0.08%
Zn 206.200†	9396.8	2.354	mg/L	0.0546	4.708	mg/L	0.1091	2.32%

Sequence No.: 17
Sample ID: ST70 MBSPK SWC

Autosampler Location: 313
Date Collected: 4/27/2011 10:05:37 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: ST70 MBSPK SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: ST70 MBSPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2382528.8	106.8	%	0.95				0.89%
ScR 361.383	430068.2	108.1	%	0.39				0.36%
Ag 328.068†	99484.7	0.5363	mg/L	0.00590	1.073	mg/L	0.0118	1.10%
Al 308.215†	2896.5	2.066	mg/L	0.0157	4.131	mg/L	0.0313	0.76%
As 188.979†	2940.2	2.069	mg/L	0.0242	4.138	mg/L	0.0484	1.17%
B 249.677†	5.0	-0.00029	mg/L	0.000957	-0.00058	mg/L	0.001914	329.97%
Ba 233.527†	14598.5	2.030	mg/L	0.0122	4.061	mg/L	0.0244	0.60%
Be 313.042†	448582.4	0.5109	mg/L	0.00176	1.022	mg/L	0.0035	0.34%
Ca 317.933†	115432.2	9.930	mg/L	0.0182	19.86	mg/L	0.036	0.18%
Cd 228.802†	14426.0	0.5113	mg/L	0.00630	1.023	mg/L	0.0126	1.23%
Co 228.616†	15807.0	0.4999	mg/L	0.00580	0.9998	mg/L	0.01159	1.16%
Cr 267.716†	4045.6	0.5062	mg/L	0.00344	1.012	mg/L	0.0069	0.68%
Cu 324.752†	116949.2	0.5049	mg/L	0.00526	1.010	mg/L	0.0105	1.04%
Fe 273.955†	2635.6	2.058	mg/L	0.0125	4.116	mg/L	0.0251	0.61%
K 766.490†	19033.4	10.35	mg/L	0.051	20.70	mg/L	0.101	0.49%
Mg 279.077†	12997.8	10.34	mg/L	0.069	20.69	mg/L	0.137	0.66%
Mn 257.610†	23478.4	0.4983	mg/L	0.00273	0.9967	mg/L	0.00546	0.55%
Mo 202.031†	23.5	0.00128	mg/L	0.000233	0.00256	mg/L	0.000466	18.21%
Na 589.592†	129184.7	10.29	mg/L	0.030	20.58	mg/L	0.061	0.30%
Na 330.237†	322.0	11.40	mg/L	0.076	22.80	mg/L	0.151	0.66%
Ni 231.604†	1866.7	0.5124	mg/L	0.00404	1.025	mg/L	0.0081	0.79%
Pb 220.353†	16719.7	2.013	mg/L	0.0219	4.026	mg/L	0.0438	1.09%
Sb 206.836†	13.1	0.00199	mg/L	0.001803	0.00398	mg/L	0.003606	90.55%
Se 196.026†	2621.2	2.133	mg/L	0.0242	4.265	mg/L	0.0484	1.14%
Si 288.158†	-4.0	0.00072	mg/L	0.001422	0.00144	mg/L	0.002845	197.59%
Sn 189.927†	-22.0	-0.00168	mg/L	0.000131	-0.00337	mg/L	0.000262	7.80%
Sr 421.552†	449343.1	0.5193	mg/L	0.00102	1.039	mg/L	0.0020	0.20%
Ti 334.903†	36.7	-0.00063	mg/L	0.000189	-0.00125	mg/L	0.000378	30.18%
Tl 190.801†	3414.8	2.060	mg/L	0.0197	4.121	mg/L	0.0393	0.95%
V 292.402†	76994.8	0.5043	mg/L	0.00541	1.009	mg/L	0.0108	1.07%
Zn 206.200†	2018.6	0.5057	mg/L	0.00504	1.011	mg/L	0.0101	1.00%

Sequence No.: 18
Sample ID: CV 7

Autosampler Location: 7
Date Collected: 4/27/2011 10:09:34 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2421853.9	108.5	%	2.85				2.62%
ScR 361.383	433921.7	109.0	%	0.89				0.81%
Ag 328.068†	180987.7	0.9756	mg/L	0.00162	0.9756	mg/L	0.00162	0.17%
Al 308.215†	2848.0	2.008	mg/L	0.0460	2.008	mg/L	0.0460	2.29%
As 188.979†	2764.3	1.952	mg/L	0.0380	1.952	mg/L	0.0380	1.94%
B 249.677†	5620.7	1.011	mg/L	0.0154	1.011	mg/L	0.0154	1.53%
Ba 233.527†	7092.6	0.9861	mg/L	0.01000	0.9861	mg/L	0.01000	1.01%
Be 313.042†	882045.5	1.005	mg/L	0.0043	1.005	mg/L	0.0043	0.43%
Ca 317.933†	23751.5	2.043	mg/L	0.0374	2.043	mg/L	0.0374	1.83%
Cd 228.802†	28073.7	1.002	mg/L	0.0034	1.002	mg/L	0.0034	0.34%
Co 228.616†	30306.5	0.9578	mg/L	0.00130	0.9578	mg/L	0.00130	0.14%
Cr 267.716†	7949.5	0.9959	mg/L	0.01183	0.9959	mg/L	0.01183	1.19%
Cu 324.752†	223683.7	0.9652	mg/L	0.00219	0.9652	mg/L	0.00219	0.23%
Fe 273.955†	2593.3	2.022	mg/L	0.0393	2.022	mg/L	0.0393	1.94%
K 766.490†	36753.1	19.98	mg/L	0.054	19.98	mg/L	0.054	0.27%
Mg 279.077†	2479.6	1.977	mg/L	0.0267	1.977	mg/L	0.0267	1.35%
Mn 257.610†	46267.9	0.9816	mg/L	0.00945	0.9816	mg/L	0.00945	0.96%
Mo 202.031†	15360.3	0.9583	mg/L	0.01920	0.9583	mg/L	0.01920	2.00%
Na 589.592†	633782.7	50.48	mg/L	0.174	50.48	mg/L	0.174	0.34%
Na 330.237†	1453.9	52.13	mg/L	0.617	52.13	mg/L	0.617	1.18%
Ni 231.604†	3762.1	1.034	mg/L	0.0133	1.034	mg/L	0.0133	1.29%
Pb 220.353†	16312.4	1.965	mg/L	0.0381	1.965	mg/L	0.0381	1.94%
Sb 206.836†	4850.9	1.948	mg/L	0.0384	1.948	mg/L	0.0384	1.97%
Se 196.026†	2435.5	1.983	mg/L	0.0369	1.983	mg/L	0.0369	1.86%
Si 288.158†	3370.9	2.040	mg/L	0.0281	2.040	mg/L	0.0281	1.38%
Sn 189.927†	4812.9	0.9457	mg/L	0.01716	0.9457	mg/L	0.01716	1.81%
Sr 421.552†	880485.9	1.018	mg/L	0.0014	1.018	mg/L	0.0014	0.14%
Ti 334.903†	29717.3	0.9516	mg/L	0.00683	0.9516	mg/L	0.00683	0.72%
Tl 190.801†	3202.2	1.934	mg/L	0.0331	1.934	mg/L	0.0331	1.71%
V 292.402†	144342.8	0.9461	mg/L	0.00403	0.9461	mg/L	0.00403	0.43%
Zn 206.200†	4000.6	1.002	mg/L	0.0128	1.002	mg/L	0.0128	1.28%

Sequence No.: 19
Sample ID: CB -2

Autosampler Location: 1
Date Collected: 4/27/2011 10:12:35 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2362984.7	105.9	%	0.37				0.35%
ScR 361.383	423068.0	106.3	%	0.61				0.57%
Ag 328.068†	79.7	0.00043	mg/L	0.000132	0.00043	mg/L	0.000132	30.72%
Al 308.215†	27.2	0.01949	mg/L	0.006547	0.01949	mg/L	0.006547	33.59%
As 188.979†	3.0	0.00211	mg/L	0.002395	0.00211	mg/L	0.002395	113.28%
B 249.677†	12.3	0.00221	mg/L	0.000769	0.00221	mg/L	0.000769	34.87%
Ba 233.527†	-4.5	-0.00063	mg/L	0.000305	-0.00063	mg/L	0.000305	48.60%
Be 313.042†	35.6	0.00004	mg/L	0.000016	0.00004	mg/L	0.000016	38.66%
Ca 317.933†	39.9	0.00343	mg/L	0.001255	0.00343	mg/L	0.001255	36.57%
Cd 228.802†	0.7	0.00002	mg/L	0.000119	0.00002	mg/L	0.000119	656.89%
Co 228.616†	10.9	0.00035	mg/L	0.000051	0.00035	mg/L	0.000051	14.73%
Cr 267.716†	-1.4	-0.00018	mg/L	0.001188	-0.00018	mg/L	0.001188	674.14%
Cu 324.752†	-17.7	-0.00008	mg/L	0.000074	-0.00008	mg/L	0.000074	97.56%
Fe 273.955†	2.1	0.00162	mg/L	0.001865	0.00162	mg/L	0.001865	115.10%
K 766.490†	91.3	0.04965	mg/L	0.019059	0.04965	mg/L	0.019059	38.39%
Mg 279.077†	15.1	0.01205	mg/L	0.003076	0.01205	mg/L	0.003076	25.53%
Mn 257.610†	-4.6	-0.00010	mg/L	0.000080	-0.00010	mg/L	0.000080	82.03%
Mo 202.031†	-9.4	-0.00059	mg/L	0.000298	-0.00059	mg/L	0.000298	50.94%
Na 589.592†	358.4	0.02855	mg/L	0.004665	0.02855	mg/L	0.004665	16.34%
Na 330.237†	22.1	0.7909	mg/L	0.24053	0.7909	mg/L	0.24053	30.41%
Ni 231.604†	4.5	0.00123	mg/L	0.001480	0.00123	mg/L	0.001480	120.79%
Pb 220.353†	12.6	0.00152	mg/L	0.000582	0.00152	mg/L	0.000582	38.20%
Sb 206.836†	2.7	0.00109	mg/L	0.001630	0.00109	mg/L	0.001630	149.96%
Se 196.026†	2.7	0.00224	mg/L	0.000905	0.00224	mg/L	0.000905	40.48%
Si 288.158†	-0.5	-0.00029	mg/L	0.002213	-0.00029	mg/L	0.002213	772.70%
Sn 189.927†	5.1	0.00099	mg/L	0.000378	0.00099	mg/L	0.000378	37.99%
Sr 421.552†	83.1	0.00010	mg/L	0.000037	0.00010	mg/L	0.000037	38.76%
Ti 334.903†	-41.2	-0.00132	mg/L	0.000322	-0.00132	mg/L	0.000322	24.37%
Tl 190.801†	4.9	0.00295	mg/L	0.002154	0.00295	mg/L	0.002154	73.03%
V 292.402†	28.7	0.00019	mg/L	0.000225	0.00019	mg/L	0.000225	120.92%
Zn 206.200†	3.1	0.00077	mg/L	0.000368	0.00077	mg/L	0.000368	47.73%

Sequence No.: 20 **Autosampler Location: 314**
Sample ID: SS71 MB2 TWC **Date Collected: 4/27/2011 10:16:47 AM**
Data Type: Original

Dilution: 1X

Nebulizer Parameters: SS71 MB2 TWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 MB2 TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2356601.9	105.6	%	1.29				1.22%
ScR 361.383	421966.6	106.0	%	2.27				2.14%
Ag 328.068†	106.1	0.00057	mg/L	0.000211	0.00057	mg/L	0.000211	36.90%
Al 308.215†	30.4	0.02176	mg/L	0.009706	0.02176	mg/L	0.009706	44.60%
As 188.979†	1.3	0.00091	mg/L	0.001706	0.00091	mg/L	0.001706	187.03%
B 249.677†	9.3	0.00167	mg/L	0.001631	0.00167	mg/L	0.001631	97.69%
Ba 233.527†	-4.8	-0.00067	mg/L	0.000674	-0.00067	mg/L	0.000674	101.31%
Be 313.042†	-26.9	-0.00003	mg/L	0.000050	-0.00003	mg/L	0.000050	162.56%
Ca 317.933†	113.2	0.00974	mg/L	0.001392	0.00974	mg/L	0.001392	14.30%
Cd 228.802†	-3.6	-0.00013	mg/L	0.000143	-0.00013	mg/L	0.000143	109.98%
Co 228.616†	12.4	0.00039	mg/L	0.000093	0.00039	mg/L	0.000093	23.82%
Cr 267.716†	-4.9	-0.00061	mg/L	0.000718	-0.00061	mg/L	0.000718	117.99%
Cu 324.752†	-2.3	-0.00001	mg/L	0.000090	-0.00001	mg/L	0.000090	970.78%
Fe 273.955†	3.3	0.00256	mg/L	0.001333	0.00256	mg/L	0.001333	52.13%
K 766.490†	87.2	0.04740	mg/L	0.015156	0.04740	mg/L	0.015156	31.98%
Mg 279.077†	12.7	0.01011	mg/L	0.002161	0.01011	mg/L	0.002161	21.38%
Mn 257.610†	-3.6	-0.00008	mg/L	0.000037	-0.00008	mg/L	0.000037	48.27%
Mo 202.031†	-13.7	-0.00086	mg/L	0.000265	-0.00086	mg/L	0.000265	31.00%
Na 589.592†	272.6	0.02171	mg/L	0.004830	0.02171	mg/L	0.004830	22.24%
Na 330.237†	26.4	0.9458	mg/L	0.56072	0.9458	mg/L	0.56072	59.29%
Ni 231.604†	8.7	0.00238	mg/L	0.000925	0.00238	mg/L	0.000925	38.86%
Pb 220.353†	11.3	0.00136	mg/L	0.000424	0.00136	mg/L	0.000424	31.25%
Sb 206.836†	1.3	0.00053	mg/L	0.000566	0.00053	mg/L	0.000566	107.40%
Se 196.026†	6.4	0.00524	mg/L	0.001361	0.00524	mg/L	0.001361	25.98%
Si 288.158†	7.3	0.00439	mg/L	0.001698	0.00439	mg/L	0.001698	38.66%
Sn 189.927†	0.5	0.00010	mg/L	0.000303	0.00010	mg/L	0.000303	297.36%
Sr 421.552†	58.1	0.00007	mg/L	0.000017	0.00007	mg/L	0.000017	25.80%
Ti 334.903†	-29.7	-0.00095	mg/L	0.000965	-0.00095	mg/L	0.000965	101.36%
Tl 190.801†	3.5	0.00212	mg/L	0.001946	0.00212	mg/L	0.001946	91.62%
V 292.402†	9.7	0.00006	mg/L	0.000156	0.00006	mg/L	0.000156	259.95%
Zn 206.200†	7.5	0.00188	mg/L	0.000326	0.00188	mg/L	0.000326	17.32%

Sequence No.: 21
Sample ID: SS71 T TWC

Autosampler Location: 315
Date Collected: 4/27/2011 10:21:00 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: SS71 T TWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 T TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2383707.7	106.8	%	0.68				0.64%
ScR 361.383	426671.8	107.2	%	0.56				0.52%
Ag 328.068†	125.4	0.00068	mg/L	0.000158	0.00068	mg/L	0.000158	23.31%
Al 308.215†	91.2	0.06539	mg/L	0.006793	0.06539	mg/L	0.006793	10.39%
As 188.979†	1.9	0.00133	mg/L	0.002225	0.00133	mg/L	0.002225	166.87%
B 249.677†	2.7	0.00048	mg/L	0.000076	0.00048	mg/L	0.000076	16.03%
Ba 233.527†	-0.1	-0.00002	mg/L	0.000390	-0.00002	mg/L	0.000390	>999.9%
Be 313.042†	-60.1	-0.00007	mg/L	0.000011	-0.00007	mg/L	0.000011	16.71%
Ca 317.933†	754.7	0.06492	mg/L	0.000849	0.06492	mg/L	0.000849	1.31%
Cd 228.802†	-4.4	-0.00016	mg/L	0.000112	-0.00016	mg/L	0.000112	68.54%
Co 228.616†	11.4	0.00036	mg/L	0.000076	0.00036	mg/L	0.000076	21.01%
Cr 267.716†	2.2	0.00027	mg/L	0.000445	0.00027	mg/L	0.000445	162.40%
Cu 324.752†	4.2	0.00002	mg/L	0.000088	0.00002	mg/L	0.000088	435.95%
Fe 273.955†	60.7	0.04748	mg/L	0.001819	0.04748	mg/L	0.001819	3.83%
K 766.490†	79.4	0.04318	mg/L	0.023727	0.04318	mg/L	0.023727	54.95%
Mg 279.077†	31.9	0.02535	mg/L	0.002849	0.02535	mg/L	0.002849	11.24%
Mn 257.610†	46.1	0.00098	mg/L	0.000066	0.00098	mg/L	0.000066	6.74%
Mo 202.031†	-7.3	-0.00046	mg/L	0.000324	-0.00046	mg/L	0.000324	71.01%
Na 589.592†	1762.0	0.1404	mg/L	0.00164	0.1404	mg/L	0.00164	1.17%
Na 330.237†	24.0	0.8575	mg/L	0.37932	0.8575	mg/L	0.37932	44.24%
Ni 231.604†	5.4	0.00147	mg/L	0.001553	0.00147	mg/L	0.001553	105.75%
Pb 220.353†	10.1	0.00123	mg/L	0.000675	0.00123	mg/L	0.000675	55.07%
Sb 206.836†	-1.1	-0.00044	mg/L	0.000954	-0.00044	mg/L	0.000954	218.65%
Se 196.026†	8.8	0.00717	mg/L	0.004071	0.00717	mg/L	0.004071	56.80%
Si 288.158†	256.8	0.1549	mg/L	0.00329	0.1549	mg/L	0.00329	2.12%
Sn 189.927†	2.9	0.00059	mg/L	0.000617	0.00059	mg/L	0.000617	104.40%
Sr 421.552†	217.5	0.00025	mg/L	0.000016	0.00025	mg/L	0.000016	6.45%
Ti 334.903†	10.7	0.00033	mg/L	0.000394	0.00033	mg/L	0.000394	118.13%
Tl 190.801†	3.1	0.00186	mg/L	0.002015	0.00186	mg/L	0.002015	108.63%
V 292.402†	41.9	0.00027	mg/L	0.000050	0.00027	mg/L	0.000050	18.60%
Zn 206.200†	11.0	0.00275	mg/L	0.000571	0.00275	mg/L	0.000571	20.81%

Sequence No.: 22 **Autosampler Location: 316**
Sample ID: SS71 A SWC **Date Collected: 4/27/2011 10:25:11 AM**
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 A SWC

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: SS71 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2458768.5	110.2	%	0.69				0.63%
ScR 361.383	437012.4	109.8	%	2.26				2.06%
Ag 328.068†	170.4	0.00054	mg/L	0.000090	0.00107	mg/L	0.000181	16.81%
Al 308.215†	151199.0	108.3	mg/L	0.09	216.7	mg/L	0.19	0.09%
As 188.979†	28.4	0.07250	mg/L	0.003712	0.1450	mg/L	0.00742	5.12%
B 249.677†	86.3	0.01538	mg/L	0.001319	0.03075	mg/L	0.002637	8.57%
Ba 233.527†	3746.4	0.5122	mg/L	0.00817	1.024	mg/L	0.0163	1.59%
Be 313.042†	1646.1	0.00166	mg/L	0.000123	0.00331	mg/L	0.000245	7.40%
Ca 317.933†	576332.9	49.58	mg/L	0.133	99.15	mg/L	0.266	0.27%
Cd 228.802†	60.4	0.00226	mg/L	0.000040	0.00452	mg/L	0.000080	1.78%
Co 228.616†	2298.4	0.06126	mg/L	0.000313	0.1225	mg/L	0.00063	0.51%
Cr 267.716†	2256.7	0.2853	mg/L	0.00462	0.5707	mg/L	0.00924	1.62%
Cu 324.752†	51387.3	0.2262	mg/L	0.00056	0.4523	mg/L	0.00111	0.25%
Fe 273.955†	170843.2	133.6	mg/L	0.34	267.1	mg/L	0.67	0.25%
K 766.490†	9671.0	5.258	mg/L	0.0287	10.52	mg/L	0.057	0.55%
Mg 279.077†	49605.6	39.41	mg/L	0.114	78.82	mg/L	0.228	0.29%
Mn 257.610†	125473.1	2.661	mg/L	0.0049	5.322	mg/L	0.0098	0.18%
Mo 202.031†	111.6	0.00604	mg/L	0.000534	0.01209	mg/L	0.001068	8.83%
Na 589.592†	29747.2	2.369	mg/L	0.0850	4.739	mg/L	0.1701	3.59%
Na 330.237†	56.6	4.265	mg/L	0.2083	8.530	mg/L	0.4165	4.88%
Ni 231.604†	1000.7	0.2747	mg/L	0.00464	0.5494	mg/L	0.00928	1.69%
Pb 220.353†	1058.6	0.1410	mg/L	0.00108	0.2820	mg/L	0.00216	0.77%
Sb 206.836†	-5.6	0.00684	mg/L	0.001398	0.01367	mg/L	0.002796	20.45%
Se 196.026†	49.0	0.02901	mg/L	0.002188	0.05801	mg/L	0.004376	7.54%
Si 288.158†	12294.9	7.423	mg/L	0.1306	14.85	mg/L	0.261	1.76%
Sn 189.927†	-73.5	0.00119	mg/L	0.000402	0.00237	mg/L	0.000804	33.85%
Sr 421.552†	245982.5	0.2843	mg/L	0.00061	0.5686	mg/L	0.00121	0.21%
Ti 334.903†	218889.9	7.013	mg/L	0.0155	14.03	mg/L	0.031	0.22%
Tl 190.801†	-15.1	0.00803	mg/L	0.002113	0.01605	mg/L	0.004226	26.33%
V 292.402†	62678.4	0.3951	mg/L	0.00086	0.7902	mg/L	0.00173	0.22%
Zn 206.200†	2025.3	0.5073	mg/L	0.00837	1.015	mg/L	0.0167	1.65%

Sequence No.: 23
Sample ID: SS71 B SWC

Autosampler Location: 317
Date Collected: 4/27/2011 10:29:09 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 B SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 B SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2449549.0	109.8	%	1.26				1.15%
ScR 361.383	446100.2	112.1	%	1.21				1.08%
Ag 328.068†	142.0	0.00049	mg/L	0.000217	0.00097	mg/L	0.000433	44.57%
Al 308.215†	147314.7	105.5	mg/L	0.43	211.1	mg/L	0.85	0.40%
As 188.979†	67.8	0.09141	mg/L	0.000619	0.1828	mg/L	0.00124	0.68%
B 249.677†	92.6	0.01654	mg/L	0.001279	0.03308	mg/L	0.002559	7.74%
Ba 233.527†	3079.2	0.4200	mg/L	0.00490	0.8401	mg/L	0.00981	1.17%
Be 313.042†	1723.9	0.00177	mg/L	0.000023	0.00353	mg/L	0.000047	1.33%
Ca 317.933†	389143.1	33.47	mg/L	0.189	66.95	mg/L	0.378	0.56%
Cd 228.802†	50.2	0.00181	mg/L	0.000248	0.00361	mg/L	0.000497	13.76%
Co 228.616†	1979.5	0.05323	mg/L	0.000326	0.1065	mg/L	0.00065	0.61%
Cr 267.716†	2232.5	0.2824	mg/L	0.00388	0.5647	mg/L	0.00776	1.37%
Cu 324.752†	28852.6	0.1289	mg/L	0.00105	0.2577	mg/L	0.00209	0.81%
Fe 273.955†	158971.1	124.3	mg/L	0.53	248.6	mg/L	1.07	0.43%
K 766.490†	8247.3	4.484	mg/L	0.0098	8.969	mg/L	0.0196	0.22%
Mg 279.077†	45269.3	35.96	mg/L	0.166	71.93	mg/L	0.333	0.46%
Mn 257.610†	95798.8	2.032	mg/L	0.0099	4.063	mg/L	0.0198	0.49%
Mo 202.031†	110.6	0.00628	mg/L	0.000174	0.01255	mg/L	0.000348	2.77%
Na 589.592†	17975.0	1.432	mg/L	0.0083	2.864	mg/L	0.0166	0.58%
Na 330.237†	35.7	3.139	mg/L	0.0532	6.278	mg/L	0.1063	1.69%
Ni 231.604†	1078.4	0.2960	mg/L	0.00415	0.5920	mg/L	0.00829	1.40%
Pb 220.353†	909.5	0.1232	mg/L	0.00059	0.2463	mg/L	0.00117	0.48%
Sb 206.836†	-8.5	0.00368	mg/L	0.001047	0.00736	mg/L	0.002094	28.44%
Se 196.026†	40.4	0.02478	mg/L	0.006656	0.04955	mg/L	0.013311	26.86%
Si 288.158†	14362.1	8.670	mg/L	0.0899	17.34	mg/L	0.180	1.04%
Sn 189.927†	-59.9	-0.00085	mg/L	0.000845	-0.00169	mg/L	0.001690	99.97%
Sr 421.552†	174598.4	0.2018	mg/L	0.00080	0.4036	mg/L	0.00161	0.40%
Ti 334.903†	179393.4	5.749	mg/L	0.0229	11.50	mg/L	0.046	0.40%
Tl 190.801†	-14.6	0.00715	mg/L	0.000769	0.01429	mg/L	0.001537	10.76%
V 292.402†	56277.5	0.3548	mg/L	0.00345	0.7096	mg/L	0.00689	0.97%
Zn 206.200†	1284.1	0.3216	mg/L	0.00317	0.6433	mg/L	0.00635	0.99%

Sequence No.: 24
Sample ID: SS71 C SWC

Autosampler Location: 318
Date Collected: 4/27/2011 10:33:06 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 C SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 C SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2437112.4	109.2	%	1.45				1.33%
ScR 361.383	441429.7	110.9	%	1.19				1.07%
Ag 328.068†	120.9	0.00039	mg/L	0.000226	0.00077	mg/L	0.000451	58.58%
Al 308.215†	171420.3	122.8	mg/L	0.38	245.6	mg/L	0.76	0.31%
As 188.979†	23.8	0.06773	mg/L	0.003716	0.1355	mg/L	0.00743	5.49%
B 249.677†	79.1	0.01407	mg/L	0.001029	0.02814	mg/L	0.002058	7.32%
Ba 233.527†	3724.3	0.5092	mg/L	0.00605	1.018	mg/L	0.0121	1.19%
Be 313.042†	1758.5	0.00180	mg/L	0.000042	0.00360	mg/L	0.000085	2.35%
Ca 317.933†	400198.1	34.43	mg/L	0.122	68.85	mg/L	0.244	0.35%
Cd 228.802†	47.6	0.00184	mg/L	0.000128	0.00368	mg/L	0.000255	6.94%
Co 228.616†	2322.4	0.06259	mg/L	0.000934	0.1252	mg/L	0.00187	1.49%
Cr 267.716†	2701.2	0.3413	mg/L	0.00263	0.6826	mg/L	0.00527	0.77%
Cu 324.752†	27268.6	0.1222	mg/L	0.00132	0.2443	mg/L	0.00264	1.08%
Fe 273.955†	170249.4	133.1	mg/L	0.51	266.2	mg/L	1.03	0.39%
K 766.490†	8714.3	4.738	mg/L	0.0303	9.477	mg/L	0.0607	0.64%
Mg 279.077†	48595.5	38.61	mg/L	0.160	77.21	mg/L	0.320	0.41%
Mn 257.610†	93314.6	1.979	mg/L	0.0106	3.958	mg/L	0.0211	0.53%
Mo 202.031†	87.3	0.00481	mg/L	0.000020	0.00962	mg/L	0.000039	0.41%
Na 589.592†	19244.0	1.533	mg/L	0.0068	3.066	mg/L	0.0135	0.44%
Na 330.237†	34.9	3.407	mg/L	0.1054	6.813	mg/L	0.2108	3.09%
Ni 231.604†	1175.0	0.3225	mg/L	0.00387	0.6450	mg/L	0.00773	1.20%
Pb 220.353†	904.8	0.1256	mg/L	0.00031	0.2512	mg/L	0.00061	0.24%
Sb 206.836†	-12.0	0.00317	mg/L	0.002463	0.00633	mg/L	0.004925	77.76%
Se 196.026†	35.4	0.02030	mg/L	0.008298	0.04060	mg/L	0.016596	40.88%
Si 288.158†	14393.9	8.690	mg/L	0.0826	17.38	mg/L	0.165	0.95%
Sn 189.927†	-57.6	0.00017	mg/L	0.001533	0.00034	mg/L	0.003065	890.81%
Sr 421.552†	202848.1	0.2344	mg/L	0.00104	0.4689	mg/L	0.00207	0.44%
Ti 334.903†	207772.8	6.659	mg/L	0.0308	13.32	mg/L	0.062	0.46%
Tl 190.801†	-12.1	0.00980	mg/L	0.006293	0.01960	mg/L	0.012585	64.22%
V 292.402†	58407.2	0.3677	mg/L	0.00496	0.7353	mg/L	0.00991	1.35%
Zn 206.200†	1415.1	0.3545	mg/L	0.00286	0.7089	mg/L	0.00572	0.81%

Sequence No.: 25
Sample ID: SS71 IDUP SWC

Autosampler Location: 319
Date Collected: 4/27/2011 10:37:03 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 IDUP SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 IDUP SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2425523.5	108.7	%	1.41				1.30%
ScR 361.383	441544.1	110.9	%	1.13				1.01%
Ag 328.068†	-24.3	-0.00033	mg/L	0.000474	-0.00067	mg/L	0.000949	142.28%
Al 308.215†	209018.2	149.8	mg/L	0.18	299.5	mg/L	0.36	0.12%
As 188.979†	-15.6	0.04520	mg/L	0.004765	0.09039	mg/L	0.009531	10.54%
B 249.677†	55.6	0.00983	mg/L	0.000641	0.01966	mg/L	0.001282	6.52%
Ba 233.527†	3710.4	0.5052	mg/L	0.00806	1.010	mg/L	0.0161	1.60%
Be 313.042†	2011.7	0.00205	mg/L	0.000065	0.00411	mg/L	0.000131	3.19%
Ca 317.933†	401830.7	34.57	mg/L	0.030	69.13	mg/L	0.060	0.09%
Cd 228.802†	33.0	0.00145	mg/L	0.000156	0.00291	mg/L	0.000313	10.76%
Co 228.616†	2430.3	0.06496	mg/L	0.000898	0.1299	mg/L	0.00180	1.38%
Cr 267.716†	2843.3	0.3601	mg/L	0.00473	0.7202	mg/L	0.00945	1.31%
Cu 324.752†	40033.7	0.1786	mg/L	0.00231	0.3572	mg/L	0.00462	1.29%
Fe 273.955†	210629.8	164.7	mg/L	0.16	329.3	mg/L	0.33	0.10%
K 766.490†	9771.6	5.313	mg/L	0.0129	10.63	mg/L	0.026	0.24%
Mg 279.077†	56666.0	45.01	mg/L	0.086	90.03	mg/L	0.173	0.19%
Mn 257.610†	80113.6	1.699	mg/L	0.0027	3.398	mg/L	0.0054	0.16%
Mo 202.031†	42.7	0.00202	mg/L	0.000116	0.00405	mg/L	0.000233	5.75%
Na 589.592†	19564.1	1.558	mg/L	0.0029	3.117	mg/L	0.0057	0.18%
Na 330.237†	22.3	3.191	mg/L	0.0520	6.383	mg/L	0.1040	1.63%
Ni 231.604†	1403.0	0.3851	mg/L	0.00589	0.7702	mg/L	0.01177	1.53%
Pb 220.353†	-8.6	0.01902	mg/L	0.001060	0.03804	mg/L	0.002120	5.57%
Sb 206.836†	-11.4	0.00440	mg/L	0.000581	0.00879	mg/L	0.001161	13.20%
Se 196.026†	35.2	0.01960	mg/L	0.006521	0.03919	mg/L	0.013041	33.27%
Si 288.158†	9234.1	5.577	mg/L	0.0782	11.15	mg/L	0.156	1.40%
Sn 189.927†	-72.8	-0.00254	mg/L	0.000874	-0.00509	mg/L	0.001748	34.36%
Sr 421.552†	244364.6	0.2824	mg/L	0.00008	0.5648	mg/L	0.00015	0.03%
Ti 334.903†	227790.4	7.301	mg/L	0.0126	14.60	mg/L	0.025	0.17%
Tl 190.801†	-23.9	0.00680	mg/L	0.008249	0.01361	mg/L	0.016497	121.24%
V 292.402†	68425.1	0.4300	mg/L	0.00688	0.8600	mg/L	0.01376	1.60%
Zn 206.200†	1127.7	0.2824	mg/L	0.00319	0.5649	mg/L	0.00638	1.13%

Sequence No.: 26
Sample ID: SS71 I SWC

Autosampler Location: 320
Date Collected: 4/27/2011 10:41:01 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 I SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 I SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2477230.8	111.0	%	0.03				0.03%
ScR 361.383	446022.9	112.1	%	0.47				0.42%
Ag 328.068†	62.5	0.00017	mg/L	0.000105	0.00034	mg/L	0.000211	62.82%
Al 308.215†	206880.2	148.2	mg/L	0.26	296.5	mg/L	0.52	0.18%
As 188.979†	-19.4	0.04375	mg/L	0.002824	0.08750	mg/L	0.005647	6.45%
B 249.677†	55.9	0.00988	mg/L	0.000508	0.01977	mg/L	0.001016	5.14%
Ba 233.527†	3773.1	0.5145	mg/L	0.00081	1.029	mg/L	0.0016	0.16%
Be 313.042†	2862.4	0.00302	mg/L	0.000008	0.00605	mg/L	0.000017	0.27%
Ca 317.933†	418203.7	35.97	mg/L	0.061	71.95	mg/L	0.121	0.17%
Cd 228.802†	42.2	0.00180	mg/L	0.000033	0.00359	mg/L	0.000066	1.84%
Co 228.616†	2374.9	0.06292	mg/L	0.000381	0.1258	mg/L	0.00076	0.61%
Cr 267.716†	2783.3	0.3523	mg/L	0.00085	0.7046	mg/L	0.00170	0.24%
Cu 324.752†	38852.8	0.1730	mg/L	0.00148	0.3460	mg/L	0.00295	0.85%
Fe 273.955†	198962.8	155.5	mg/L	0.44	311.1	mg/L	0.88	0.28%
K 766.490†	8949.7	4.866	mg/L	0.0325	9.733	mg/L	0.0649	0.67%
Mg 279.077†	53622.7	42.60	mg/L	0.100	85.19	mg/L	0.199	0.23%
Mn 257.610†	71072.5	1.507	mg/L	0.0029	3.015	mg/L	0.0058	0.19%
Mo 202.031†	45.5	0.00217	mg/L	0.000236	0.00434	mg/L	0.000472	10.88%
Na 589.592†	24721.5	1.969	mg/L	0.0048	3.938	mg/L	0.0097	0.25%
Na 330.237†	35.7	3.728	mg/L	0.1787	7.456	mg/L	0.3575	4.79%
Ni 231.604†	1399.6	0.3842	mg/L	0.00192	0.7684	mg/L	0.00384	0.50%
Pb 220.353†	82.9	0.03025	mg/L	0.000801	0.06051	mg/L	0.001601	2.65%
Sb 206.836†	-13.3	0.00396	mg/L	0.002236	0.00792	mg/L	0.004472	56.45%
Se 196.026†	36.4	0.02055	mg/L	0.006410	0.04110	mg/L	0.012819	31.19%
Si 288.158†	11643.3	7.030	mg/L	0.0140	14.06	mg/L	0.028	0.20%
Sn 189.927†	-70.5	-0.00165	mg/L	0.000967	-0.00331	mg/L	0.001934	58.48%
Sr 421.552†	242564.6	0.2803	mg/L	0.00086	0.5607	mg/L	0.00172	0.31%
Ti 334.903†	233138.3	7.472	mg/L	0.0153	14.94	mg/L	0.031	0.21%
Tl 190.801†	-28.5	0.00275	mg/L	0.006793	0.00550	mg/L	0.013587	246.81%
V 292.402†	67837.4	0.4268	mg/L	0.00433	0.8535	mg/L	0.00866	1.01%
Zn 206.200†	1154.4	0.2891	mg/L	0.00092	0.5783	mg/L	0.00184	0.32%

Sequence No.: 27
Sample ID: SS71 ISPK SWC

Autosampler Location: 321
Date Collected: 4/27/2011 10:44:59 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 ISPK SWC

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: SS71 ISPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2417691.6	108.3	%	0.81				0.75%
ScR 361.383	446189.7	112.1	%	0.92				0.82%
Ag 328.068†	92456.2	0.4983	mg/L	0.00505	0.9966	mg/L	0.01009	1.01%
Al 308.215†	188216.0	134.9	mg/L	0.25	269.7	mg/L	0.51	0.19%
As 188.979†	2728.8	1.965	mg/L	0.0099	3.931	mg/L	0.0199	0.51%
B 249.677†	51.0	0.00789	mg/L	0.000962	0.01579	mg/L	0.001924	12.18%
Ba 233.527†	16733.3	2.318	mg/L	0.0255	4.636	mg/L	0.0511	1.10%
Be 313.042†	424276.0	0.4830	mg/L	0.00170	0.9660	mg/L	0.00340	0.35%
Ca 317.933†	453127.7	38.98	mg/L	0.028	77.96	mg/L	0.055	0.07%
Cd 228.802†	14044.8	0.4983	mg/L	0.00211	0.9966	mg/L	0.00422	0.42%
Co 228.616†	17021.2	0.5287	mg/L	0.00223	1.057	mg/L	0.0045	0.42%
Cr 267.716†	6551.2	0.8234	mg/L	0.00857	1.647	mg/L	0.0171	1.04%
Cu 324.752†	149545.9	0.6507	mg/L	0.01090	1.301	mg/L	0.0218	1.67%
Fe 273.955†	184244.3	144.0	mg/L	0.36	288.1	mg/L	0.72	0.25%
K 766.490†	23667.2	12.87	mg/L	0.027	25.74	mg/L	0.054	0.21%
Mg 279.077†	63414.6	50.39	mg/L	0.062	100.8	mg/L	0.12	0.12%
Mn 257.610†	88397.4	1.875	mg/L	0.0032	3.750	mg/L	0.0065	0.17%
Mo 202.031†	49.0	0.00233	mg/L	0.000121	0.00467	mg/L	0.000241	5.17%
Na 589.592†	137462.0	10.95	mg/L	0.029	21.90	mg/L	0.059	0.27%
Na 330.237†	304.0	12.69	mg/L	0.049	25.39	mg/L	0.098	0.39%
Ni 231.604†	2996.8	0.8226	mg/L	0.00718	1.645	mg/L	0.0144	0.87%
Pb 220.353†	15900.8	1.933	mg/L	0.0108	3.865	mg/L	0.0216	0.56%
Sb 206.836†	3.6	0.00521	mg/L	0.001002	0.01042	mg/L	0.002004	19.22%
Se 196.026†	2474.1	2.005	mg/L	0.0012	4.010	mg/L	0.0025	0.06%
Si 288.158†	14944.9	9.025	mg/L	0.0956	18.05	mg/L	0.191	1.06%
Sn 189.927†	-77.6	-0.00280	mg/L	0.001264	-0.00560	mg/L	0.002529	45.17%
Sr 421.552†	613493.0	0.7090	mg/L	0.00089	1.418	mg/L	0.0018	0.13%
Ti 334.903†	184372.9	5.907	mg/L	0.0073	11.81	mg/L	0.015	0.12%
Tl 190.801†	3090.3	1.883	mg/L	0.0089	3.766	mg/L	0.0178	0.47%
V 292.402†	133577.1	0.8596	mg/L	0.01160	1.719	mg/L	0.0232	1.35%
Zn 206.200†	2890.1	0.7240	mg/L	0.00675	1.448	mg/L	0.0135	0.93%

Sequence No.: 28
Sample ID: SS71 ~~IPOST~~ SWC

Dilution: 2X

4-27-11

Autosampler Location: 322
Date Collected: 4/27/2011 10:48:58 AM
Data Type: Original

Nebulizer Parameters: SS71 ~~IPOST~~ SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SS71 ~~IPOST~~ SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2462622.4	110.4	%	0.86				0.78%
ScR 361.383	443288.8	111.4	%	1.78				1.60%
Ag 328.068†	94.1	0.00013	mg/L	0.000216	0.00026	mg/L	0.000433	166.76%
Al 308.215†	175451.9	125.7	mg/L	1.13	251.4	mg/L	2.26	0.90%
As 188.979†	89.0	0.1178	mg/L	0.00202	0.2357	mg/L	0.00404	1.71%
B 249.677†	53.3	0.00940	mg/L	0.000973	0.01881	mg/L	0.001946	10.35%
Ba 233.527†	3444.0	0.4679	mg/L	0.00974	0.9359	mg/L	0.01949	2.08%
Be 313.042†	1790.2	0.00179	mg/L	0.000065	0.00359	mg/L	0.000131	3.65%
Ca 317.933†	641743.9	55.20	mg/L	0.655	110.4	mg/L	1.31	1.19%
Cd 228.802†	105.3	0.00373	mg/L	0.000103	0.00747	mg/L	0.000205	2.75%
Co 228.616†	2713.2	0.07379	mg/L	0.001144	0.1476	mg/L	0.00229	1.55%
Cr 267.716†	2052.5	0.2606	mg/L	0.00563	0.5213	mg/L	0.01126	2.16%
Cu 324.752†	64092.4	0.2825	mg/L	0.00438	0.5651	mg/L	0.00876	1.55%
Fe 273.955†	214302.4	167.5	mg/L	1.74	335.1	mg/L	3.47	1.04%
K 766.490†	10213.8	5.554	mg/L	0.0060	11.11	mg/L	0.012	0.11%
Mg 279.077†	59567.9	47.32	mg/L	0.507	94.64	mg/L	1.014	1.07%
Mn 257.610†	127437.3	2.703	mg/L	0.0284	5.406	mg/L	0.0568	1.05%
Mo 202.031†	115.7	0.00619	mg/L	0.000692	0.01238	mg/L	0.001384	11.18%
Na 589.592†	73932.2	5.889	mg/L	0.0547	11.78	mg/L	0.109	0.93%
Na 330.237†	157.7	8.017	mg/L	0.1770	16.03	mg/L	0.354	2.21%
Ni 231.604†	1099.6	0.3018	mg/L	0.00539	0.6037	mg/L	0.01078	1.79%
Pb 220.353†	4323.4	0.5352	mg/L	0.00586	1.070	mg/L	0.0117	1.09%
Sb 206.836†	-9.5	0.00627	mg/L	0.000968	0.01255	mg/L	0.001936	15.43%
Se 196.026†	37.8	0.01837	mg/L	0.006983	0.03674	mg/L	0.013965	38.01%
Si 288.158†	8294.4	5.010	mg/L	0.0884	10.02	mg/L	0.177	1.76%
Sn 189.927†	-74.4	0.00263	mg/L	0.000060	0.00527	mg/L	0.000120	2.28%
Sr 421.552†	276034.4	0.3190	mg/L	0.00235	0.6380	mg/L	0.00470	0.74%
Ti 334.903†	230698.3	7.391	mg/L	0.0731	14.78	mg/L	0.146	0.99%
Tl 190.801†	-28.3	0.00452	mg/L	0.005686	0.00905	mg/L	0.011371	125.70%
V 292.402†	70443.1	0.4426	mg/L	0.00741	0.8852	mg/L	0.01481	1.67%
Zn 206.200†	2003.4	0.5019	mg/L	0.00862	1.004	mg/L	0.0172	1.72%

Sequence No.: 29 **Autosampler Location: 323**
Sample ID: SS71 MB2SPK TWC **Date Collected: 4/27/2011 10:52:56 AM**
Data Type: Original

Dilution: 1X

Nebulizer Parameters: SS71 MB2SPK TWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 MB2SPK TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2402316.6	107.7	%	0.69				0.64%
ScR 361.383	428210.8	107.6	%	0.92				0.85%
Ag 328.068†	96531.2	0.5204	mg/L	0.00167	0.5204	mg/L	0.00167	0.32%
Al 308.215†	2875.7	2.051	mg/L	0.0234	2.051	mg/L	0.0234	1.14%
As 188.979†	2895.2	2.037	mg/L	0.0088	2.037	mg/L	0.0088	0.43%
B 249.677†	6.4	-0.00001	mg/L	0.000764	-0.00001	mg/L	0.000764	>999.9%
Ba 233.527†	14372.0	1.999	mg/L	0.0172	1.999	mg/L	0.0172	0.86%
Be 313.042†	439244.3	0.5003	mg/L	0.00061	0.5003	mg/L	0.00061	0.12%
Ca 317.933†	113512.8	9.765	mg/L	0.0199	9.765	mg/L	0.0199	0.20%
Cd 228.802†	13992.9	0.4958	mg/L	0.00275	0.4958	mg/L	0.00275	0.55%
Co 228.616†	15406.6	0.4872	mg/L	0.00186	0.4872	mg/L	0.00186	0.38%
Cr 267.716†	3971.8	0.4969	mg/L	0.00337	0.4969	mg/L	0.00337	0.68%
Cu 324.752†	114350.0	0.4936	mg/L	0.00090	0.4936	mg/L	0.00090	0.18%
Fe 273.955†	2635.7	2.058	mg/L	0.0225	2.058	mg/L	0.0225	1.09%
K 766.490†	18523.3	10.07	mg/L	0.064	10.07	mg/L	0.064	0.64%
Mg 279.077†	12851.1	10.23	mg/L	0.089	10.23	mg/L	0.089	0.87%
Mn 257.610†	23086.6	0.4900	mg/L	0.00470	0.4900	mg/L	0.00470	0.96%
Mo 202.031†	21.8	0.00118	mg/L	0.000472	0.00118	mg/L	0.000472	40.01%
Na 589.592†	126317.0	10.06	mg/L	0.038	10.06	mg/L	0.038	0.38%
Na 330.237†	311.2	11.02	mg/L	0.328	11.02	mg/L	0.328	2.98%
Ni 231.604†	1841.2	0.5054	mg/L	0.00546	0.5054	mg/L	0.00546	1.08%
Pb 220.353†	16377.4	1.972	mg/L	0.0063	1.972	mg/L	0.0063	0.32%
Sb 206.836†	9.5	0.00060	mg/L	0.000571	0.00060	mg/L	0.000571	94.36%
Se 196.026†	2566.9	2.088	mg/L	0.0117	2.088	mg/L	0.0117	0.56%
Si 288.158†	9.2	0.00867	mg/L	0.002357	0.00867	mg/L	0.002357	27.20%
Sn 189.927†	-24.9	-0.00229	mg/L	0.000182	-0.00229	mg/L	0.000182	7.92%
Sr 421.552†	439719.0	0.5082	mg/L	0.00083	0.5082	mg/L	0.00083	0.16%
Ti 334.903†	82.2	0.00086	mg/L	0.000904	0.00086	mg/L	0.000904	104.72%
Tl 190.801†	3347.0	2.019	mg/L	0.0037	2.019	mg/L	0.0037	0.18%
V 292.402†	75857.3	0.4968	mg/L	0.00133	0.4968	mg/L	0.00133	0.27%
Zn 206.200†	2002.3	0.5017	mg/L	0.00368	0.5017	mg/L	0.00368	0.73%

Sequence No.: 30
Sample ID: CV 3

Autosampler Location: 7
Date Collected: 4/27/2011 10:56:54 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2416777.3	108.3	%	0.38				0.35%
ScR 361.383	426289.5	107.1	%	1.11				1.03%
Ag 328.068†	187675.3	1.012	mg/L	0.0046	1.012	mg/L	0.0046	0.46%
Al 308.215†	2792.3	1.968	mg/L	0.0153	1.968	mg/L	0.0153	0.78%
As 188.979†	2825.7	1.995	mg/L	0.0204	1.995	mg/L	0.0204	1.02%
B 249.677†	5587.8	1.005	mg/L	0.0082	1.005	mg/L	0.0082	0.82%
Ba 233.527†	7064.1	0.9821	mg/L	0.01061	0.9821	mg/L	0.01061	1.08%
Be 313.042†	884648.6	1.008	mg/L	0.0088	1.008	mg/L	0.0088	0.87%
Ca 317.933†	23503.7	2.022	mg/L	0.0191	2.022	mg/L	0.0191	0.94%
Cd 228.802†	28398.0	1.014	mg/L	0.0008	1.014	mg/L	0.0008	0.08%
Co 228.616†	30524.2	0.9647	mg/L	0.00107	0.9647	mg/L	0.00107	0.11%
Cr 267.716†	7914.4	0.9914	mg/L	0.01007	0.9914	mg/L	0.01007	1.02%
Cu 324.752†	222580.7	0.9604	mg/L	0.00351	0.9604	mg/L	0.00351	0.37%
Fe 273.955†	2563.4	1.999	mg/L	0.0168	1.999	mg/L	0.0168	0.84%
K 766.490†	36654.2	19.93	mg/L	0.253	19.93	mg/L	0.253	1.27%
Mg 279.077†	2460.9	1.962	mg/L	0.0143	1.962	mg/L	0.0143	0.73%
Mn 257.610†	46005.1	0.9760	mg/L	0.01055	0.9760	mg/L	0.01055	1.08%
Mo 202.031†	15546.5	0.9699	mg/L	0.00781	0.9699	mg/L	0.00781	0.80%
Na 589.592†	636151.5	50.67	mg/L	0.480	50.67	mg/L	0.480	0.95%
Na 330.237†	1432.8	51.38	mg/L	0.485	51.38	mg/L	0.485	0.94%
Ni 231.604†	3748.8	1.030	mg/L	0.0127	1.030	mg/L	0.0127	1.23%
Pb 220.353†	16108.9	1.940	mg/L	0.0015	1.940	mg/L	0.0015	0.08%
Sb 206.836†	4939.8	1.984	mg/L	0.0159	1.984	mg/L	0.0159	0.80%
Se 196.026†	2474.9	2.015	mg/L	0.0210	2.015	mg/L	0.0210	1.04%
Si 288.158†	3373.5	2.041	mg/L	0.0098	2.041	mg/L	0.0098	0.48%
Sn 189.927†	4908.6	0.9645	mg/L	0.00970	0.9645	mg/L	0.00970	1.01%
Sr 421.552†	881061.6	1.018	mg/L	0.0078	1.018	mg/L	0.0078	0.77%
Ti 334.903†	29795.6	0.9541	mg/L	0.00784	0.9541	mg/L	0.00784	0.82%
Tl 190.801†	3257.3	1.967	mg/L	0.0122	1.967	mg/L	0.0122	0.62%
V 292.402†	149012.3	0.9765	mg/L	0.00286	0.9765	mg/L	0.00286	0.29%
Zn 206.200†	3992.8	1.0000	mg/L	0.01264	1.0000	mg/L	0.01264	1.26%

Sequence No.: 31
Sample ID: CB 3

Autosampler Location: 1
Date Collected: 4/27/2011 11:00:09 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	207.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2387828.7	107.0	%	1.04				0.97%
ScR 361.383	426478.5	107.2	%	0.34				0.31%
Ag 328.068†	111.0	0.00060	mg/L	0.000159	0.00060	mg/L	0.000159	26.52%
Al 308.215†	23.5	0.01688	mg/L	0.005447	0.01688	mg/L	0.005447	32.27%
As 188.979†	0.3	0.00018	mg/L	0.001725	0.00018	mg/L	0.001725	938.70%
B 249.677†	-0.4	-0.00007	mg/L	0.000985	-0.00007	mg/L	0.000985	>999.9%
Ba 233.527†	2.3	0.00032	mg/L	0.001220	0.00032	mg/L	0.001220	383.78%
Be 313.042†	59.9	0.00007	mg/L	0.000029	0.00007	mg/L	0.000029	42.18%
Ca 317.933†	39.1	0.00336	mg/L	0.001275	0.00336	mg/L	0.001275	37.94%
Cd 228.802†	-2.1	-0.00008	mg/L	0.000043	-0.00008	mg/L	0.000043	56.06%
Co 228.616†	11.4	0.00036	mg/L	0.000162	0.00036	mg/L	0.000162	44.81%
Cr 267.716†	-0.5	-0.00006	mg/L	0.000854	-0.00006	mg/L	0.000854	>999.9%
Cu 324.752†	-28.6	-0.00012	mg/L	0.000141	-0.00012	mg/L	0.000141	114.80%
Fe 273.955†	7.0	0.00545	mg/L	0.000618	0.00545	mg/L	0.000618	11.32%
K 766.490†	74.6	0.04056	mg/L	0.011742	0.04056	mg/L	0.011742	28.95%
Mg 279.077†	10.0	0.00799	mg/L	0.006209	0.00799	mg/L	0.006209	77.73%
Mn 257.610†	1.7	0.00004	mg/L	0.000188	0.00004	mg/L	0.000188	513.94%
Mo 202.031†	-5.2	-0.00033	mg/L	0.000100	-0.00033	mg/L	0.000100	30.53%
Na 589.592†	-123.9	-0.00987	mg/L	0.000576	-0.00987	mg/L	0.000576	5.84%
Na 330.237†	24.9	0.8917	mg/L	0.30110	0.8917	mg/L	0.30110	33.77%
Ni 231.604†	3.6	0.00098	mg/L	0.000912	0.00098	mg/L	0.000912	92.66%
Pb 220.353†	10.2	0.00123	mg/L	0.000788	0.00123	mg/L	0.000788	64.21%
Sb 206.836†	-1.6	-0.00064	mg/L	0.000112	-0.00064	mg/L	0.000112	17.50%
Se 196.026†	10.6	0.00866	mg/L	0.001311	0.00866	mg/L	0.001311	15.14%
Si 288.158†	-7.6	-0.00458	mg/L	0.006389	-0.00458	mg/L	0.006389	139.65%
Sn 189.927†	2.8	0.00055	mg/L	0.000236	0.00055	mg/L	0.000236	43.21%
Sr 421.552†	146.2	0.00017	mg/L	0.000038	0.00017	mg/L	0.000038	22.72%
Ti 334.903†	-34.0	-0.00109	mg/L	0.000516	-0.00109	mg/L	0.000516	47.29%
Tl 190.801†	3.4	0.00206	mg/L	0.001210	0.00206	mg/L	0.001210	58.64%
V 292.402†	18.5	0.00012	mg/L	0.000093	0.00012	mg/L	0.000093	77.06%
Zn 206.200†	3.8	0.00094	mg/L	0.000671	0.00094	mg/L	0.000671	71.15%

Sequence No.: 32
Sample ID: SS71 MB1 SWC

Autosampler Location: 324
Date Collected: 4/27/2011 11:04:21 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 MB1 SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 MB1 SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2441874.6	109.4	%	1.37				1.26%
ScR 361.383	442328.2	111.1	%	1.44				1.29%
Ag 328.068†	168.3	0.00091	mg/L	0.000089	0.00182	mg/L	0.000177	9.78%
Al 308.215†	29.7	0.02132	mg/L	0.011894	0.04265	mg/L	0.023789	55.78%
As 188.979†	-1.0	-0.00069	mg/L	0.001127	-0.00137	mg/L	0.002254	164.04%
B 249.677†	4.1	0.00074	mg/L	0.001371	0.00149	mg/L	0.002742	184.06%
Ba 233.527†	-3.1	-0.00043	mg/L	0.000399	-0.00086	mg/L	0.000799	93.40%
Be 313.042†	-52.0	-0.00006	mg/L	0.000006	-0.00012	mg/L	0.000012	9.71%
Ca 317.933†	201.6	0.01734	mg/L	0.001298	0.03469	mg/L	0.002597	7.49%
Cd 228.802†	-8.5	-0.00030	mg/L	0.000071	-0.00060	mg/L	0.000142	23.67%
Co 228.616†	9.9	0.00031	mg/L	0.000047	0.00063	mg/L	0.000093	14.83%
Cr 267.716†	-1.8	-0.00023	mg/L	0.000621	-0.00045	mg/L	0.001241	273.37%
Cu 324.752†	-55.3	-0.00024	mg/L	0.000120	-0.00048	mg/L	0.000240	50.47%
Fe 273.955†	5.7	0.00445	mg/L	0.001539	0.00889	mg/L	0.003078	34.62%
K 766.490†	173.8	0.09448	mg/L	0.002228	0.1890	mg/L	0.00446	2.36%
Mg 279.077†	22.5	0.01789	mg/L	0.007063	0.03578	mg/L	0.014127	39.48%
Mn 257.610†	-2.3	-0.00005	mg/L	0.000151	-0.00010	mg/L	0.000302	314.54%
Mo 202.031†	-10.9	-0.00068	mg/L	0.000191	-0.00136	mg/L	0.000382	27.98%
Na 589.592†	-13.8	-0.00110	mg/L	0.001508	-0.00219	mg/L	0.003016	137.53%
Na 330.237†	22.2	0.7935	mg/L	0.30381	1.587	mg/L	0.6076	38.29%
Ni 231.604†	7.7	0.00212	mg/L	0.000578	0.00423	mg/L	0.001156	27.30%
Pb 220.353†	6.8	0.00082	mg/L	0.000273	0.00164	mg/L	0.000546	33.28%
Sb 206.836†	-2.1	-0.00082	mg/L	0.001652	-0.00165	mg/L	0.003305	200.35%
Se 196.026†	10.7	0.00870	mg/L	0.002387	0.01740	mg/L	0.004775	27.44%
Si 288.158†	0.9	0.00052	mg/L	0.002402	0.00105	mg/L	0.004805	458.50%
Sn 189.927†	2.8	0.00056	mg/L	0.000202	0.00112	mg/L	0.000404	35.96%
Sr 421.552†	98.4	0.00011	mg/L	0.000024	0.00023	mg/L	0.000049	21.50%
Ti 334.903†	-49.7	-0.00160	mg/L	0.001005	-0.00319	mg/L	0.002011	62.97%
Tl 190.801†	0.3	0.00020	mg/L	0.001746	0.00040	mg/L	0.003491	881.77%
V 292.402†	11.6	0.00007	mg/L	0.000051	0.00015	mg/L	0.000102	68.33%
Zn 206.200†	6.7	0.00167	mg/L	0.000325	0.00334	mg/L	0.000649	19.46%

Sequence No.: 33 **Autosampler Location: 325**
Sample ID: SS71 D SWC **Date Collected: 4/27/2011 11:08:34 AM**
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 D SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 D SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2436548.0	109.2	%	0.35				0.32%
ScR 361.383	432575.8	108.7	%	2.50				2.30%
Ag 328.068†	218.4	0.00087	mg/L	0.000292	0.00173	mg/L	0.000585	33.72%
Al 308.215†	121396.4	86.98	mg/L	0.250	174.0	mg/L	0.50	0.29%
As 188.979†	81.5	0.09290	mg/L	0.000504	0.1858	mg/L	0.00101	0.54%
B 249.677†	103.1	0.01844	mg/L	0.000585	0.03687	mg/L	0.001169	3.17%
Ba 233.527†	3412.1	0.4670	mg/L	0.01130	0.9339	mg/L	0.02261	2.42%
Be 313.042†	1266.4	0.00128	mg/L	0.000064	0.00256	mg/L	0.000127	4.97%
Ca 317.933†	557005.0	47.91	mg/L	0.063	95.83	mg/L	0.126	0.13%
Cd 228.802†	105.5	0.00371	mg/L	0.000135	0.00743	mg/L	0.000270	3.63%
Co 228.616†	1742.1	0.04708	mg/L	0.000093	0.09416	mg/L	0.000186	0.20%
Cr 267.716†	1880.6	0.2377	mg/L	0.00659	0.4754	mg/L	0.01318	2.77%
Cu 324.752†	53285.4	0.2341	mg/L	0.00338	0.4682	mg/L	0.00676	1.44%
Fe 273.955†	147877.6	115.6	mg/L	0.24	231.2	mg/L	0.48	0.21%
K 766.490†	10543.0	5.733	mg/L	0.0106	11.47	mg/L	0.021	0.18%
Mg 279.077†	44602.5	35.44	mg/L	0.047	70.88	mg/L	0.094	0.13%
Mn 257.610†	100005.8	2.121	mg/L	0.0093	4.242	mg/L	0.0185	0.44%
Mo 202.031†	122.9	0.00678	mg/L	0.000232	0.01356	mg/L	0.000465	3.43%
Na 589.592†	20701.2	1.649	mg/L	0.0042	3.298	mg/L	0.0084	0.25%
Na 330.237†	46.1	3.133	mg/L	0.0781	6.265	mg/L	0.1562	2.49%
Ni 231.604†	815.4	0.2238	mg/L	0.00405	0.4476	mg/L	0.00811	1.81%
Pb 220.353†	3890.5	0.4786	mg/L	0.00036	0.9573	mg/L	0.00073	0.08%
Sb 206.836†	0.3	0.00627	mg/L	0.002188	0.01254	mg/L	0.004377	34.90%
Se 196.026†	45.9	0.02707	mg/L	0.001274	0.05414	mg/L	0.002547	4.71%
Si 288.158†	10848.2	6.550	mg/L	0.1616	13.10	mg/L	0.323	2.47%
Sn 189.927†	-1.5	0.01413	mg/L	0.000924	0.02826	mg/L	0.001847	6.54%
Sr 421.552†	246121.7	0.2845	mg/L	0.00061	0.5689	mg/L	0.00121	0.21%
Ti 334.903†	152989.2	4.899	mg/L	0.0162	9.799	mg/L	0.0325	0.33%
Tl 190.801†	-10.2	0.00879	mg/L	0.000817	0.01759	mg/L	0.001634	9.29%
V 292.402†	45925.5	0.2883	mg/L	0.00379	0.5767	mg/L	0.00757	1.31%
Zn 206.200†	2650.1	0.6638	mg/L	0.01631	1.328	mg/L	0.0326	2.46%

Sequence No.: 34
Sample ID: SS71 E SWC

Autosampler Location: 326
Date Collected: 4/27/2011 11:12:32 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 E SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 E SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2453754.4	110.0	%	1.11				1.01%
ScR 361.383	443112.1	111.3	%	1.10				0.99%
Ag 328.068†	158.8	0.00057	mg/L	0.000308	0.00114	mg/L	0.000615	54.09%
Al 308.215†	154041.3	110.4	mg/L	0.35	220.7	mg/L	0.70	0.32%
As 188.979†	87.0	0.1083	mg/L	0.00309	0.2165	mg/L	0.00618	2.86%
B 249.677†	60.6	0.01075	mg/L	0.000587	0.02151	mg/L	0.001174	5.46%
Ba 233.527†	3002.7	0.4093	mg/L	0.00439	0.8187	mg/L	0.00879	1.07%
Be 313.042†	1713.2	0.00174	mg/L	0.000034	0.00347	mg/L	0.000068	1.96%
Ca 317.933†	337325.7	29.02	mg/L	0.091	58.03	mg/L	0.181	0.31%
Cd 228.802†	63.9	0.00223	mg/L	0.000233	0.00446	mg/L	0.000466	10.44%
Co 228.616†	2166.8	0.05857	mg/L	0.000994	0.1171	mg/L	0.00199	1.70%
Cr 267.716†	2209.0	0.2796	mg/L	0.00231	0.5592	mg/L	0.00462	0.83%
Cu 324.752†	46302.5	0.2041	mg/L	0.00214	0.4082	mg/L	0.00427	1.05%
Fe 273.955†	159988.2	125.1	mg/L	0.32	250.1	mg/L	0.64	0.25%
K 766.490†	9666.2	5.256	mg/L	0.0175	10.51	mg/L	0.035	0.33%
Mg 279.077†	43427.8	34.50	mg/L	0.107	69.00	mg/L	0.214	0.31%
Mn 257.610†	99934.1	2.119	mg/L	0.0088	4.239	mg/L	0.0175	0.41%
Mo 202.031†	106.6	0.00611	mg/L	0.000302	0.01222	mg/L	0.000603	4.94%
Na 589.592†	17746.5	1.414	mg/L	0.0051	2.827	mg/L	0.0103	0.36%
Na 330.237†	34.6	3.208	mg/L	0.0596	6.415	mg/L	0.1192	1.86%
Ni 231.604†	981.1	0.2693	mg/L	0.00329	0.5386	mg/L	0.00658	1.22%
Pb 220.353†	963.5	0.1305	mg/L	0.00240	0.2609	mg/L	0.00480	1.84%
Sb 206.836†	-7.5	0.00479	mg/L	0.000742	0.00959	mg/L	0.001485	15.49%
Se 196.026†	36.7	0.02256	mg/L	0.007475	0.04512	mg/L	0.014950	33.13%
Si 288.158†	14395.2	8.690	mg/L	0.0710	17.38	mg/L	0.142	0.82%
Sn 189.927†	-52.4	-0.00043	mg/L	0.001573	-0.00085	mg/L	0.003146	368.44%
Sr 421.552†	136495.0	0.1578	mg/L	0.00033	0.3155	mg/L	0.00067	0.21%
Ti 334.903†	190811.9	6.116	mg/L	0.0179	12.23	mg/L	0.036	0.29%
Tl 190.801†	-12.5	0.00845	mg/L	0.008894	0.01690	mg/L	0.017788	105.25%
V 292.402†	61515.7	0.3887	mg/L	0.00551	0.7773	mg/L	0.01103	1.42%
Zn 206.200†	1491.6	0.3736	mg/L	0.00340	0.7472	mg/L	0.00679	0.91%

Sequence No.: 35
Sample ID: SS71 F SWC

Autosampler Location: 327
Date Collected: 4/27/2011 11:16:29 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 F SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 F SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2443227.3	109.5	%	0.46				0.42%
ScR 361.383	439574.7	110.5	%	1.27				1.15%
Ag 328.068†	135.1	0.00055	mg/L	0.000146	0.00110	mg/L	0.000292	26.57%
Al 308.215†	156953.1	112.5	mg/L	0.45	224.9	mg/L	0.90	0.40%
As 188.979†	62.5	0.09042	mg/L	0.002788	0.1808	mg/L	0.00558	3.08%
B 249.677†	77.6	0.01383	mg/L	0.000219	0.02767	mg/L	0.000439	1.59%
Ba 233.527†	3138.1	0.4285	mg/L	0.00540	0.8571	mg/L	0.01079	1.26%
Be 313.042†	1853.4	0.00190	mg/L	0.000039	0.00381	mg/L	0.000078	2.06%
Ca 317.933†	340793.1	29.32	mg/L	0.157	58.63	mg/L	0.315	0.54%
Cd 228.802†	56.1	0.00204	mg/L	0.000024	0.00408	mg/L	0.000047	1.16%
Co 228.616†	1871.9	0.04934	mg/L	0.000410	0.09867	mg/L	0.000820	0.83%
Cr 267.716†	2409.1	0.3043	mg/L	0.00353	0.6087	mg/L	0.00707	1.16%
Cu 324.752†	33661.9	0.1493	mg/L	0.00102	0.2986	mg/L	0.00204	0.68%
Fe 273.955†	153370.7	119.9	mg/L	0.21	239.8	mg/L	0.43	0.18%
K 766.490†	9295.3	5.054	mg/L	0.0264	10.11	mg/L	0.053	0.52%
Mg 279.077†	45803.0	36.39	mg/L	0.097	72.78	mg/L	0.194	0.27%
Mn 257.610†	70308.4	1.491	mg/L	0.0023	2.982	mg/L	0.0045	0.15%
Mo 202.031†	119.2	0.00689	mg/L	0.000323	0.01379	mg/L	0.000645	4.68%
Na 589.592†	17254.9	1.374	mg/L	0.0065	2.749	mg/L	0.0129	0.47%
Na 330.237†	26.1	2.885	mg/L	0.3136	5.769	mg/L	0.6272	10.87%
Ni 231.604†	1104.5	0.3032	mg/L	0.00442	0.6064	mg/L	0.00883	1.46%
Pb 220.353†	928.2	0.1270	mg/L	0.00262	0.2541	mg/L	0.00524	2.06%
Sb 206.836†	-12.4	0.00244	mg/L	0.001818	0.00488	mg/L	0.003635	74.54%
Se 196.026†	45.8	0.02977	mg/L	0.002305	0.05953	mg/L	0.004611	7.74%
Si 288.158†	11073.8	6.686	mg/L	0.0793	13.37	mg/L	0.159	1.19%
Sn 189.927†	-47.7	0.00055	mg/L	0.001280	0.00110	mg/L	0.002560	233.73%
Sr 421.552†	145587.5	0.1683	mg/L	0.00044	0.3365	mg/L	0.00087	0.26%
Ti 334.903†	188715.4	6.049	mg/L	0.0128	12.10	mg/L	0.026	0.21%
Tl 190.801†	-17.6	0.00472	mg/L	0.002443	0.00945	mg/L	0.004887	51.73%
V 292.402†	59108.9	0.3734	mg/L	0.00225	0.7469	mg/L	0.00450	0.60%
Zn 206.200†	1414.0	0.3542	mg/L	0.00494	0.7084	mg/L	0.00988	1.39%

Sequence No.: 36
Sample ID: SS71 G SWC

Autosampler Location: 328
Date Collected: 4/27/2011 11:20:26 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 G SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 G SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2443224.8	109.5	%	0.35				0.32%
ScR 361.383	445542.3	112.0	%	1.53				1.36%
Ag 328.068†	252.9	0.00105	mg/L	0.000204	0.00210	mg/L	0.000407	19.40%
Al 308.215†	192265.9	137.8	mg/L	0.55	275.5	mg/L	1.09	0.40%
As 188.979†	94.8	0.1110	mg/L	0.00287	0.2220	mg/L	0.00573	2.58%
B 249.677†	89.1	0.01589	mg/L	0.001491	0.03178	mg/L	0.002981	9.38%
Ba 233.527†	4315.2	0.5915	mg/L	0.01033	1.183	mg/L	0.0207	1.75%
Be 313.042†	2158.2	0.00225	mg/L	0.000054	0.00450	mg/L	0.000109	2.42%
Ca 317.933†	442390.0	38.06	mg/L	0.155	76.11	mg/L	0.309	0.41%
Cd 228.802†	116.1	0.00410	mg/L	0.000053	0.00820	mg/L	0.000105	1.28%
Co 228.616†	2044.8	0.05506	mg/L	0.000298	0.1101	mg/L	0.00060	0.54%
Cr 267.716†	2278.1	0.2883	mg/L	0.00464	0.5766	mg/L	0.00928	1.61%
Cu 324.752†	41149.7	0.1822	mg/L	0.00032	0.3645	mg/L	0.00063	0.17%
Fe 273.955†	168433.5	131.7	mg/L	0.56	263.3	mg/L	1.12	0.42%
K 766.490†	6229.1	3.387	mg/L	0.0127	6.774	mg/L	0.0254	0.38%
Mg 279.077†	46374.4	36.84	mg/L	0.144	73.68	mg/L	0.289	0.39%
Mn 257.610†	106166.6	2.251	mg/L	0.0172	4.503	mg/L	0.0343	0.76%
Mo 202.031†	96.8	0.00533	mg/L	0.000075	0.01067	mg/L	0.000151	1.41%
Na 589.592†	15070.1	1.200	mg/L	0.0048	2.401	mg/L	0.0097	0.40%
Na 330.237†	29.0	2.902	mg/L	0.0442	5.805	mg/L	0.0884	1.52%
Ni 231.604†	1061.2	0.2913	mg/L	0.00426	0.5826	mg/L	0.00853	1.46%
Pb 220.353†	1735.5	0.2284	mg/L	0.00206	0.4568	mg/L	0.00413	0.90%
Sb 206.836†	-10.1	0.00330	mg/L	0.002359	0.00661	mg/L	0.004718	71.42%
Se 196.026†	41.3	0.02473	mg/L	0.002328	0.04946	mg/L	0.004656	9.41%
Si 288.158†	5677.9	3.430	mg/L	0.0631	6.861	mg/L	0.1261	1.84%
Sn 189.927†	-45.2	0.00329	mg/L	0.000456	0.00658	mg/L	0.000913	13.86%
Sr 421.552†	170805.7	0.1974	mg/L	0.00130	0.3948	mg/L	0.00260	0.66%
Ti 334.903†	183234.4	5.871	mg/L	0.0424	11.74	mg/L	0.085	0.72%
Tl 190.801†	-15.1	0.00778	mg/L	0.002274	0.01557	mg/L	0.004547	29.22%
V 292.402†	59837.5	0.3774	mg/L	0.00051	0.7548	mg/L	0.00102	0.14%
Zn 206.200†	1835.2	0.4597	mg/L	0.00772	0.9194	mg/L	0.01544	1.68%

Sequence No.: 37
Sample ID: SS71 H SWC

Autosampler Location: 329
Date Collected: 4/27/2011 11:24:20 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 H SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 H SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2503249.7	112.2	%	0.35				0.32%
ScR 361.383	446147.7	112.1	%	0.63				0.56%
Ag 328.068†	35.5	-0.00004	mg/L	0.000019	-0.00008	mg/L	0.000038	47.42%
Al 308.215†	215498.1	154.4	mg/L	0.29	308.8	mg/L	0.57	0.18%
As 188.979†	-23.6	0.04631	mg/L	0.001011	0.09263	mg/L	0.002022	2.18%
B 249.677†	48.1	0.00847	mg/L	0.000814	0.01694	mg/L	0.001628	9.61%
Ba 233.527†	3255.3	0.4420	mg/L	0.00194	0.8841	mg/L	0.00388	0.44%
Be 313.042†	2290.8	0.00237	mg/L	0.000014	0.00475	mg/L	0.000029	0.61%
Ca 317.933†	372481.0	32.04	mg/L	0.033	64.08	mg/L	0.067	0.10%
Cd 228.802†	27.7	0.00128	mg/L	0.000120	0.00257	mg/L	0.000239	9.33%
Co 228.616†	2529.8	0.06682	mg/L	0.000111	0.1336	mg/L	0.00022	0.17%
Cr 267.716†	2793.4	0.3535	mg/L	0.00212	0.7071	mg/L	0.00424	0.60%
Cu 324.752†	32850.5	0.1473	mg/L	0.00064	0.2945	mg/L	0.00128	0.44%
Fe 273.955†	207974.0	162.6	mg/L	0.58	325.2	mg/L	1.17	0.36%
K 766.490†	7988.1	4.343	mg/L	0.0260	8.687	mg/L	0.0520	0.60%
Mg 279.077†	60918.4	48.40	mg/L	0.092	96.80	mg/L	0.184	0.19%
Mn 257.610†	87587.5	1.857	mg/L	0.0082	3.715	mg/L	0.0165	0.44%
Mo 202.031†	36.5	0.00168	mg/L	0.000772	0.00337	mg/L	0.001543	45.80%
Na 589.592†	16471.6	1.312	mg/L	0.0036	2.624	mg/L	0.0071	0.27%
Na 330.237†	7.8	2.953	mg/L	0.1067	5.906	mg/L	0.2135	3.61%
Ni 231.604†	1408.4	0.3866	mg/L	0.00146	0.7732	mg/L	0.00292	0.38%
Pb 220.353†	-3.2	0.02072	mg/L	0.000364	0.04144	mg/L	0.000728	1.76%
Sb 206.836†	-12.0	0.00542	mg/L	0.001648	0.01085	mg/L	0.003295	30.38%
Se 196.026†	32.2	0.01723	mg/L	0.007782	0.03447	mg/L	0.015564	45.16%
Si 288.158†	12582.2	7.598	mg/L	0.0373	15.20	mg/L	0.075	0.49%
Sn 189.927†	-69.6	-0.00231	mg/L	0.000803	-0.00462	mg/L	0.001605	34.73%
Sr 421.552†	173128.3	0.2001	mg/L	0.00044	0.4002	mg/L	0.00088	0.22%
Ti 334.903†	252934.8	8.108	mg/L	0.0255	16.22	mg/L	0.051	0.31%
Tl 190.801†	-15.8	0.01140	mg/L	0.007768	0.02280	mg/L	0.015537	68.14%
V 292.402†	67379.4	0.4229	mg/L	0.00318	0.8457	mg/L	0.00637	0.75%
Zn 206.200†	1003.7	0.2514	mg/L	0.00104	0.5028	mg/L	0.00209	0.42%

Sequence No.: 38
Sample ID: SS71 J SWC

Autosampler Location: 330
Date Collected: 4/27/2011 11:28:18 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 J SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 J SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2457083.2	110.1	%	0.90				0.81%
ScR 361.383	444516.8	111.7	%	0.83				0.74%
Ag 328.068†	137.0	0.00043	mg/L	0.000076	0.00086	mg/L	0.000152	17.65%
Al 308.215†	161922.3	116.0	mg/L	0.21	232.0	mg/L	0.43	0.18%
As 188.979†	33.6	0.07429	mg/L	0.003431	0.1486	mg/L	0.00686	4.62%
B 249.677†	56.6	0.01001	mg/L	0.001402	0.02002	mg/L	0.002803	14.00%
Ba 233.527†	3529.3	0.4815	mg/L	0.00438	0.9629	mg/L	0.00877	0.91%
Be 313.042†	1749.0	0.00179	mg/L	0.000040	0.00358	mg/L	0.000081	2.26%
Ca 317.933†	517032.5	44.48	mg/L	0.190	88.95	mg/L	0.380	0.43%
Cd 228.802†	67.3	0.00253	mg/L	0.000115	0.00505	mg/L	0.000230	4.55%
Co 228.616†	2349.9	0.06335	mg/L	0.000628	0.1267	mg/L	0.00126	0.99%
Cr 267.716†	2501.6	0.3163	mg/L	0.00155	0.6326	mg/L	0.00309	0.49%
Cu 324.752†	38367.8	0.1705	mg/L	0.00244	0.3410	mg/L	0.00488	1.43%
Fe 273.955†	182602.1	142.8	mg/L	0.71	285.5	mg/L	1.42	0.50%
K 766.490†	11814.6	6.424	mg/L	0.0490	12.85	mg/L	0.098	0.76%
Mg 279.077†	53827.9	42.77	mg/L	0.121	85.53	mg/L	0.241	0.28%
Mn 257.610†	104063.6	2.207	mg/L	0.0171	4.414	mg/L	0.0343	0.78%
Mo 202.031†	85.6	0.00451	mg/L	0.000091	0.00903	mg/L	0.000183	2.02%
Na 589.592†	22260.5	1.773	mg/L	0.0132	3.546	mg/L	0.0263	0.74%
Na 330.237†	39.7	3.588	mg/L	0.0924	7.176	mg/L	0.1849	2.58%
Ni 231.604†	1179.4	0.3237	mg/L	0.00550	0.6475	mg/L	0.01100	1.70%
Pb 220.353†	1451.3	0.1894	mg/L	0.00207	0.3787	mg/L	0.00413	1.09%
Sb 206.836†	-5.8	0.00596	mg/L	0.001462	0.01192	mg/L	0.002924	24.52%
Se 196.026†	41.1	0.02306	mg/L	0.006933	0.04613	mg/L	0.013865	30.06%
Si 288.158†	12213.0	7.374	mg/L	0.0678	14.75	mg/L	0.136	0.92%
Sn 189.927†	-72.8	-0.00012	mg/L	0.000376	-0.00025	mg/L	0.000751	304.55%
Sr 421.552†	201612.6	0.2330	mg/L	0.00112	0.4660	mg/L	0.00223	0.48%
Ti 334.903†	210046.5	6.730	mg/L	0.0401	13.46	mg/L	0.080	0.60%
Tl 190.801†	-18.7	0.00709	mg/L	0.006455	0.01418	mg/L	0.012910	91.03%
V 292.402†	58610.6	0.3681	mg/L	0.00661	0.7361	mg/L	0.01323	1.80%
Zn 206.200†	1647.6	0.4127	mg/L	0.00429	0.8254	mg/L	0.00858	1.04%

Sequence No.: 39 **Autosampler Location: 331**
Sample ID: SS71 K SWC **Date Collected: 4/27/2011 11:32:16 AM**
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 K SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 K SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2484875.3	111.4	%	0.42				0.38%
ScR 361.383	451076.1	113.3	%	0.62				0.55%
Ag 328.068†	127.0	0.00033	mg/L	0.000119	0.00065	mg/L	0.000238	36.46%
Al 308.215†	168834.9	121.0	mg/L	0.65	241.9	mg/L	1.30	0.54%
As 188.979†	2.3	0.05723	mg/L	0.001271	0.1145	mg/L	0.00254	2.22%
B 249.677†	47.4	0.00834	mg/L	0.000659	0.01667	mg/L	0.001319	7.91%
Ba 233.527†	3239.2	0.4404	mg/L	0.00263	0.8808	mg/L	0.00526	0.60%
Be 313.042†	1617.9	0.00162	mg/L	0.000006	0.00325	mg/L	0.000013	0.40%
Ca 317.933†	449092.1	38.63	mg/L	0.152	77.26	mg/L	0.304	0.39%
Cd 228.802†	41.6	0.00168	mg/L	0.000116	0.00336	mg/L	0.000232	6.88%
Co 228.616†	2616.2	0.07091	mg/L	0.000703	0.1418	mg/L	0.00141	0.99%
Cr 267.716†	2686.5	0.3398	mg/L	0.00207	0.6795	mg/L	0.00414	0.61%
Cu 324.752†	31690.3	0.1421	mg/L	0.00194	0.2841	mg/L	0.00389	1.37%
Fe 273.955†	196427.4	153.6	mg/L	0.98	307.1	mg/L	1.96	0.64%
K 766.490†	10871.2	5.911	mg/L	0.0254	11.82	mg/L	0.051	0.43%
Mg 279.077†	58887.2	46.79	mg/L	0.241	93.57	mg/L	0.482	0.51%
Mn 257.610†	119396.2	2.532	mg/L	0.0191	5.064	mg/L	0.0383	0.76%
Mo 202.031†	60.1	0.00303	mg/L	0.000725	0.00606	mg/L	0.001451	23.93%
Na 589.592†	19318.4	1.539	mg/L	0.0092	3.078	mg/L	0.0185	0.60%
Na 330.237†	28.9	3.415	mg/L	0.1337	6.830	mg/L	0.2673	3.91%
Ni 231.604†	1199.7	0.3293	mg/L	0.00201	0.6586	mg/L	0.00401	0.61%
Pb 220.353†	312.3	0.05268	mg/L	0.001259	0.1054	mg/L	0.00252	2.39%
Sb 206.836†	-9.5	0.00518	mg/L	0.000902	0.01036	mg/L	0.001803	17.40%
Se 196.026†	37.7	0.02085	mg/L	0.002525	0.04170	mg/L	0.005049	12.11%
Si 288.158†	14385.2	8.685	mg/L	0.0373	17.37	mg/L	0.075	0.43%
Sn 189.927†	-70.9	-0.00110	mg/L	0.000820	-0.00220	mg/L	0.001641	74.49%
Sr 421.552†	209743.5	0.2424	mg/L	0.00126	0.4848	mg/L	0.00252	0.52%
Ti 334.903†	226971.2	7.274	mg/L	0.0434	14.55	mg/L	0.087	0.60%
Tl 190.801†	-22.6	0.00612	mg/L	0.004917	0.01223	mg/L	0.009833	80.40%
V 292.402†	62549.8	0.3927	mg/L	0.00498	0.7854	mg/L	0.00996	1.27%
Zn 206.200†	1195.8	0.2995	mg/L	0.00141	0.5990	mg/L	0.00282	0.47%

Sequence No.: 40
Sample ID: SS71 L SWC

Autosampler Location: 332
Date Collected: 4/27/2011 11:36:14 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 L SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 L SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2483890.2	111.3	%	1.52				1.36%
ScR 361.383	450813.7	113.3	%	0.87				0.77%
Ag 328.068†	114.7	0.00028	mg/L	0.000115	0.00056	mg/L	0.000229	40.68%
Al 308.215†	169648.1	121.5	mg/L	0.79	243.1	mg/L	1.58	0.65%
As 188.979†	15.3	0.06484	mg/L	0.001618	0.1297	mg/L	0.00324	2.50%
B 249.677†	51.3	0.00906	mg/L	0.001046	0.01812	mg/L	0.002093	11.55%
Ba 233.527†	3156.5	0.4294	mg/L	0.00371	0.8589	mg/L	0.00742	0.86%
Be 313.042†	1647.4	0.00167	mg/L	0.000017	0.00333	mg/L	0.000033	0.99%
Ca 317.933†	463059.5	39.83	mg/L	0.196	79.67	mg/L	0.393	0.49%
Cd 228.802†	39.6	0.00157	mg/L	0.000184	0.00313	mg/L	0.000368	11.73%
Co 228.616†	2382.7	0.06381	mg/L	0.001236	0.1276	mg/L	0.00247	1.94%
Cr 267.716†	2545.0	0.3219	mg/L	0.00241	0.6439	mg/L	0.00482	0.75%
Cu 324.752†	33319.2	0.1487	mg/L	0.00120	0.2975	mg/L	0.00241	0.81%
Fe 273.955†	185523.3	145.0	mg/L	0.96	290.1	mg/L	1.92	0.66%
K 766.490†	8981.0	4.883	mg/L	0.0022	9.767	mg/L	0.0045	0.05%
Mg 279.077†	53137.9	42.22	mg/L	0.230	84.43	mg/L	0.461	0.55%
Mn 257.610†	112708.5	2.390	mg/L	0.0180	4.780	mg/L	0.0361	0.75%
Mo 202.031†	65.4	0.00334	mg/L	0.000256	0.00668	mg/L	0.000512	7.65%
Na 589.592†	20669.8	1.646	mg/L	0.0064	3.293	mg/L	0.0127	0.39%
Na 330.237†	34.8	3.559	mg/L	0.2075	7.117	mg/L	0.4151	5.83%
Ni 231.604†	1136.3	0.3119	mg/L	0.00224	0.6238	mg/L	0.00448	0.72%
Pb 220.353†	454.3	0.07034	mg/L	0.000381	0.1407	mg/L	0.00076	0.54%
Sb 206.836†	-9.0	0.00521	mg/L	0.000847	0.01042	mg/L	0.001694	16.26%
Se 196.026†	39.8	0.02275	mg/L	0.008321	0.04550	mg/L	0.016642	36.58%
Si 288.158†	7420.2	4.482	mg/L	0.0319	8.964	mg/L	0.0639	0.71%
Sn 189.927†	-73.4	-0.00133	mg/L	0.001515	-0.00267	mg/L	0.003030	113.66%
Sr 421.552†	183068.2	0.2116	mg/L	0.00126	0.4232	mg/L	0.00253	0.60%
Ti 334.903†	221454.4	7.097	mg/L	0.0482	14.19	mg/L	0.096	0.68%
Tl 190.801†	-21.6	0.00560	mg/L	0.002177	0.01121	mg/L	0.004354	38.84%
V 292.402†	60306.5	0.3788	mg/L	0.00402	0.7575	mg/L	0.00804	1.06%
Zn 206.200†	1300.2	0.3257	mg/L	0.00102	0.6514	mg/L	0.00204	0.31%

Sequence No.: 41
Sample ID: SS71 MB1SPK SWC

Autosampler Location: 333
Date Collected: 4/27/2011 11:40:11 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 MB1SPK SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SS71 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2467537.3	110.6	%	0.71				0.64%
ScR 361.383	437393.9	109.9	%	0.23				0.21%
Ag 328.068†	95388.4	0.5143	mg/L	0.00077	1.029	mg/L	0.0015	0.15%
Al 308.215†	2849.2	2.032	mg/L	0.0592	4.064	mg/L	0.1183	2.91%
As 188.979†	2824.4	1.987	mg/L	0.0084	3.975	mg/L	0.0168	0.42%
B 249.677†	-1.5	-0.00142	mg/L	0.000360	-0.00284	mg/L	0.000721	25.42%
Ba 233.527†	14136.7	1.966	mg/L	0.0112	3.932	mg/L	0.0223	0.57%
Be 313.042†	430100.4	0.4899	mg/L	0.00431	0.9797	mg/L	0.00862	0.88%
Ca 317.933†	110987.7	9.547	mg/L	0.0271	19.09	mg/L	0.054	0.28%
Cd 228.802†	13689.1	0.4851	mg/L	0.00253	0.9701	mg/L	0.00505	0.52%
Co 228.616†	15112.0	0.4779	mg/L	0.00329	0.9558	mg/L	0.00658	0.69%
Cr 267.716†	3910.0	0.4892	mg/L	0.00407	0.9784	mg/L	0.00814	0.83%
Cu 324.752†	111958.9	0.4833	mg/L	0.00381	0.9666	mg/L	0.00762	0.79%
Fe 273.955†	2612.9	2.040	mg/L	0.0694	4.080	mg/L	0.1389	3.40%
K 766.490†	18199.7	9.896	mg/L	0.0614	19.79	mg/L	0.123	0.62%
Mg 279.077†	12633.6	10.05	mg/L	0.080	20.11	mg/L	0.160	0.80%
Mn 257.610†	22740.4	0.4827	mg/L	0.00305	0.9653	mg/L	0.00611	0.63%
Mo 202.031†	19.4	0.00103	mg/L	0.000124	0.00206	mg/L	0.000248	12.03%
Na 589.592†	123355.0	9.826	mg/L	0.0676	19.65	mg/L	0.135	0.69%
Na 330.237†	307.3	10.88	mg/L	0.120	21.75	mg/L	0.241	1.11%
Ni 231.604†	1811.5	0.4972	mg/L	0.00217	0.9945	mg/L	0.00434	0.44%
Pb 220.353†	16081.7	1.936	mg/L	0.0158	3.873	mg/L	0.0315	0.81%
Sb 206.836†	5.8	-0.00083	mg/L	0.001952	-0.00167	mg/L	0.003903	233.96%
Se 196.026†	2516.6	2.047	mg/L	0.0079	4.095	mg/L	0.0157	0.38%
Si 288.158†	3.1	0.00491	mg/L	0.003008	0.00982	mg/L	0.006015	61.28%
Sn 189.927†	-18.9	-0.00117	mg/L	0.001063	-0.00233	mg/L	0.002126	91.14%
Sr 421.552†	431093.8	0.4982	mg/L	0.00246	0.9965	mg/L	0.00492	0.49%
Ti 334.903†	111.5	0.00184	mg/L	0.003101	0.00368	mg/L	0.006201	168.29%
Tl 190.801†	3259.0	1.966	mg/L	0.0123	3.933	mg/L	0.0247	0.63%
V 292.402†	73764.9	0.4831	mg/L	0.00717	0.9663	mg/L	0.01434	1.48%
Zn 206.200†	1966.7	0.4927	mg/L	0.00418	0.9855	mg/L	0.00837	0.85%

Sequence No.: 42
Sample ID: CV 4
Dilution: 1X

Autosampler Location: 7
Date Collected: 4/27/2011 11:44:09 AM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2428235.3	108.8	%	0.26				0.24%
ScR 361.383	432317.5	108.6	%	0.85				0.78%
Ag 328.068†	179606.8	0.9682	mg/L	0.00336	0.9682	mg/L	0.00336	0.35%
Al 308.215†	2796.9	1.972	mg/L	0.0185	1.972	mg/L	0.0185	0.94%
As 188.979†	2800.0	1.977	mg/L	0.0083	1.977	mg/L	0.0083	0.42%
B 249.677†	5552.6	0.9986	mg/L	0.00473	0.9986	mg/L	0.00473	0.47%
Ba 233.527†	6983.0	0.9708	mg/L	0.00643	0.9708	mg/L	0.00643	0.66%
Be 313.042†	871987.7	0.9932	mg/L	0.00412	0.9932	mg/L	0.00412	0.41%
Ca 317.933†	23264.3	2.001	mg/L	0.0171	2.001	mg/L	0.0171	0.86%
Cd 228.802†	28047.9	1.001	mg/L	0.0018	1.001	mg/L	0.0018	0.18%
Co 228.616†	30277.4	0.9569	mg/L	0.00346	0.9569	mg/L	0.00346	0.36%
Cr 267.716†	7856.0	0.9841	mg/L	0.00856	0.9841	mg/L	0.00856	0.87%
Cu 324.752†	222598.3	0.9605	mg/L	0.00402	0.9605	mg/L	0.00402	0.42%
Fe 273.955†	2537.6	1.979	mg/L	0.0152	1.979	mg/L	0.0152	0.77%
K 766.490†	36291.5	19.73	mg/L	0.137	19.73	mg/L	0.137	0.69%
Mg 279.077†	2458.2	1.960	mg/L	0.0110	1.960	mg/L	0.0110	0.56%
Mn 257.610†	45540.3	0.9662	mg/L	0.00919	0.9662	mg/L	0.00919	0.95%
Mo 202.031†	15496.7	0.9668	mg/L	0.00369	0.9668	mg/L	0.00369	0.38%
Na 589.592†	627942.2	50.02	mg/L	0.105	50.02	mg/L	0.105	0.21%
Na 330.237†	1430.1	51.28	mg/L	0.206	51.28	mg/L	0.206	0.40%
Ni 231.604†	3690.9	1.014	mg/L	0.0033	1.014	mg/L	0.0033	0.33%
Pb 220.353†	16495.4	1.987	mg/L	0.0100	1.987	mg/L	0.0100	0.50%
Sb 206.836†	4897.9	1.967	mg/L	0.0097	1.967	mg/L	0.0097	0.49%
Se 196.026†	2460.9	2.004	mg/L	0.0103	2.004	mg/L	0.0103	0.51%
Si 288.158†	3326.9	2.013	mg/L	0.0142	2.013	mg/L	0.0142	0.71%
Sn 189.927†	4868.9	0.9566	mg/L	0.00466	0.9566	mg/L	0.00466	0.49%
Sr 421.552†	871686.9	1.007	mg/L	0.0035	1.007	mg/L	0.0035	0.34%
Ti 334.903†	29393.3	0.9412	mg/L	0.00227	0.9412	mg/L	0.00227	0.24%
Tl 190.801†	3237.3	1.955	mg/L	0.0125	1.955	mg/L	0.0125	0.64%
V 292.402†	144630.8	0.9479	mg/L	0.00584	0.9479	mg/L	0.00584	0.62%
Zn 206.200†	3947.9	0.9887	mg/L	0.00210	0.9887	mg/L	0.00210	0.21%

Sequence No.: 43
Sample ID: CB

Autosampler Location: 1
Date Collected: 4/27/2011 11:47:10 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2445018.6	109.6	%	0.81				0.74%
ScR 361.383	440757.5	110.8	%	0.75				0.68%
Ag 328.068†	152.4	0.00082	mg/L	0.000183	0.00082	mg/L	0.000183	22.25%
Al 308.215†	48.2	0.03456	mg/L	0.014900	0.03456	mg/L	0.014900	43.12%
As 188.979†	1.5	0.00105	mg/L	0.001099	0.00105	mg/L	0.001099	104.49%
B 249.677†	4.6	0.00082	mg/L	0.000183	0.00082	mg/L	0.000183	22.18%
Ba 233.527†	-2.9	-0.00041	mg/L	0.000313	-0.00041	mg/L	0.000313	77.19%
Be 313.042†	-15.0	-0.00002	mg/L	0.000023	-0.00002	mg/L	0.000023	132.20%
Ca 317.933†	42.5	0.00366	mg/L	0.001903	0.00366	mg/L	0.001903	52.01%
Cd 228.802†	-5.3	-0.00019	mg/L	0.000146	-0.00019	mg/L	0.000146	75.54%
Co 228.616†	10.8	0.00035	mg/L	0.000083	0.00035	mg/L	0.000083	24.12%
Cr 267.716†	-4.0	-0.00050	mg/L	0.000533	-0.00050	mg/L	0.000533	107.15%
Cu 324.752†	-56.2	-0.00024	mg/L	0.000097	-0.00024	mg/L	0.000097	40.29%
Fe 273.955†	5.3	0.00418	mg/L	0.000632	0.00418	mg/L	0.000632	15.13%
K 766.490†	120.0	0.06524	mg/L	0.008545	0.06524	mg/L	0.008545	13.10%
Mg 279.077†	25.3	0.02012	mg/L	0.006205	0.02012	mg/L	0.006205	30.84%
Mn 257.610†	-7.2	-0.00015	mg/L	0.000074	-0.00015	mg/L	0.000074	48.95%
Mo 202.031†	-7.5	-0.00047	mg/L	0.000022	-0.00047	mg/L	0.000022	4.66%
Na 589.592†	-239.1	-0.01905	mg/L	0.003011	-0.01905	mg/L	0.003011	15.81%
Na 330.237†	35.0	1.253	mg/L	0.3469	1.253	mg/L	0.3469	27.69%
Ni 231.604†	3.7	0.00101	mg/L	0.001429	0.00101	mg/L	0.001429	141.85%
Pb 220.353†	9.1	0.00110	mg/L	0.000922	0.00110	mg/L	0.000922	83.43%
Sb 206.836†	-0.8	-0.00032	mg/L	0.001261	-0.00032	mg/L	0.001261	399.08%
Se 196.026†	5.4	0.00440	mg/L	0.001366	0.00440	mg/L	0.001366	31.01%
Si 288.158†	1.1	0.00067	mg/L	0.002728	0.00067	mg/L	0.002728	404.18%
Sn 189.927†	1.5	0.00030	mg/L	0.000071	0.00030	mg/L	0.000071	23.60%
Sr 421.552†	95.8	0.00011	mg/L	0.000011	0.00011	mg/L	0.000011	10.38%
Ti 334.903†	-40.5	-0.00130	mg/L	0.000274	-0.00130	mg/L	0.000274	21.15%
Tl 190.801†	5.3	0.00322	mg/L	0.001135	0.00322	mg/L	0.001135	35.30%
V 292.402†	26.4	0.00017	mg/L	0.000130	0.00017	mg/L	0.000130	76.54%
Zn 206.200†	3.9	0.00098	mg/L	0.000126	0.00098	mg/L	0.000126	12.85%

Sequence No.: 44
Sample ID: SS83 MB2 TWC

Autosampler Location: 334
Date Collected: 4/27/2011 11:51:23 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: SS83 MB2 TWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 MB2 TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2461162.5	110.3	%	0.37				0.33%
ScR 361.383	437274.1	109.9	%	0.96				0.88%
Ag 328.068†	195.3	0.00105	mg/L	0.000155	0.00105	mg/L	0.000155	14.71%
Al 308.215†	35.1	0.02515	mg/L	0.007407	0.02515	mg/L	0.007407	29.46%
As 188.979†	1.8	0.00129	mg/L	0.001329	0.00129	mg/L	0.001329	103.08%
B 249.677†	-2.4	-0.00044	mg/L	0.000291	-0.00044	mg/L	0.000291	66.14%
Ba 233.527†	-2.7	-0.00037	mg/L	0.000193	-0.00037	mg/L	0.000193	51.81%
Be 313.042†	-35.5	-0.00004	mg/L	0.000019	-0.00004	mg/L	0.000019	46.40%
Ca 317.933†	128.4	0.01105	mg/L	0.000765	0.01105	mg/L	0.000765	6.92%
Cd 228.802†	-6.2	-0.00023	mg/L	0.000148	-0.00023	mg/L	0.000148	65.54%
Co 228.616†	10.9	0.00034	mg/L	0.000035	0.00034	mg/L	0.000035	10.05%
Cr 267.716†	0.5	0.00007	mg/L	0.000725	0.00007	mg/L	0.000725	>999.9%
Cu 324.752†	-64.2	-0.00028	mg/L	0.000050	-0.00028	mg/L	0.000050	18.08%
Fe 273.955†	13.8	0.01076	mg/L	0.001309	0.01076	mg/L	0.001309	12.16%
K 766.490†	299.3	0.1628	mg/L	0.01277	0.1628	mg/L	0.01277	7.84%
Mg 279.077†	17.9	0.01423	mg/L	0.006512	0.01423	mg/L	0.006512	45.77%
Mn 257.610†	-0.4	-0.00001	mg/L	0.000057	-0.00001	mg/L	0.000057	630.28%
Mo 202.031†	-9.0	-0.00056	mg/L	0.000157	-0.00056	mg/L	0.000157	28.08%
Na 589.592†	-269.5	-0.02147	mg/L	0.002101	-0.02147	mg/L	0.002101	9.79%
Na 330.237†	26.7	0.9552	mg/L	0.11163	0.9552	mg/L	0.11163	11.69%
Ni 231.604†	4.2	0.00114	mg/L	0.000751	0.00114	mg/L	0.000751	65.64%
Pb 220.353†	16.7	0.00202	mg/L	0.000990	0.00202	mg/L	0.000990	49.00%
Sb 206.836†	-3.9	-0.00156	mg/L	0.000969	-0.00156	mg/L	0.000969	61.96%
Se 196.026†	12.7	0.01035	mg/L	0.002343	0.01035	mg/L	0.002343	22.62%
Si 288.158†	9.5	0.00574	mg/L	0.004497	0.00574	mg/L	0.004497	78.38%
Sn 189.927†	2.4	0.00047	mg/L	0.000748	0.00047	mg/L	0.000748	157.81%
Sr 421.552†	85.5	0.00010	mg/L	0.000034	0.00010	mg/L	0.000034	34.60%
Ti 334.903†	-11.2	-0.00036	mg/L	0.000098	-0.00036	mg/L	0.000098	27.36%
Tl 190.801†	3.5	0.00214	mg/L	0.000304	0.00214	mg/L	0.000304	14.23%
V 292.402†	30.8	0.00020	mg/L	0.000085	0.00020	mg/L	0.000085	42.40%
Zn 206.200†	7.7	0.00193	mg/L	0.000603	0.00193	mg/L	0.000603	31.29%

Sequence No.: 45
Sample ID: SS71 I SWC

Dilution: 2X

Autosampler Location: 335
Date Collected: 4/27/2011 11:55:21 AM
Data Type: Original

Nebulizer Parameters: SS71 I SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 I SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2548090.1	114.2	%	0.62				0.54%
ScR 361.383	455902.5	114.6	%	1.81				1.58%
Ag 328.068†	107.1	0.00041	mg/L	0.000142	0.00082	mg/L	0.000284	34.82%
Al 308.215†	205772.8	147.4	mg/L	0.31	294.9	mg/L	0.62	0.21%
As 188.979†	-20.2	0.04302	mg/L	0.003945	0.08605	mg/L	0.007891	9.17%
B 249.677†	52.8	0.00934	mg/L	0.000712	0.01867	mg/L	0.001423	7.62%
Ba 233.527†	3772.9	0.5145	mg/L	0.00701	1.029	mg/L	0.0140	1.36%
Be 313.042†	2932.0	0.00311	mg/L	0.000108	0.00621	mg/L	0.000216	3.47%
Ca 317.933†	417372.9	35.90	mg/L	0.163	71.81	mg/L	0.325	0.45%
Cd 228.802†	41.5	0.00177	mg/L	0.000094	0.00355	mg/L	0.000188	5.30%
Co 228.616†	2367.4	0.06272	mg/L	0.000373	0.1254	mg/L	0.00075	0.59%
Cr 267.716†	2794.8	0.3537	mg/L	0.00422	0.7075	mg/L	0.00843	1.19%
Cu 324.752†	38253.3	0.1704	mg/L	0.00173	0.3409	mg/L	0.00347	1.02%
Fe 273.955†	198590.1	155.2	mg/L	0.15	310.5	mg/L	0.30	0.10%
K 766.490†	8846.0	4.810	mg/L	0.0304	9.620	mg/L	0.0607	0.63%
Mg 279.077†	53587.6	42.57	mg/L	0.114	85.14	mg/L	0.229	0.27%
Mn 257.610†	70854.4	1.503	mg/L	0.0017	3.005	mg/L	0.0033	0.11%
Mo 202.031†	42.2	0.00196	mg/L	0.000199	0.00393	mg/L	0.000399	10.14%
Na 589.592†	24508.4	1.952	mg/L	0.0049	3.904	mg/L	0.0099	0.25%
Na 330.237†	37.5	3.785	mg/L	0.2084	7.570	mg/L	0.4167	5.50%
Ni 231.604†	1411.5	0.3874	mg/L	0.00562	0.7749	mg/L	0.01123	1.45%
Pb 220.353†	84.1	0.03028	mg/L	0.000996	0.06055	mg/L	0.001992	3.29%
Sb 206.836†	-17.0	0.00238	mg/L	0.001110	0.00476	mg/L	0.002219	46.62%
Se 196.026†	34.1	0.01865	mg/L	0.004540	0.03729	mg/L	0.009080	24.35%
Si 288.158†	11856.7	7.159	mg/L	0.1043	14.32	mg/L	0.209	1.46%
Sn 189.927†	-76.1	-0.00279	mg/L	0.000627	-0.00558	mg/L	0.001255	22.50%
Sr 421.552†	241622.2	0.2793	mg/L	0.00025	0.5585	mg/L	0.00050	0.09%
Ti 334.903†	232439.4	7.450	mg/L	0.0073	14.90	mg/L	0.015	0.10%
Tl 190.801†	-24.8	0.00497	mg/L	0.007213	0.00994	mg/L	0.014427	145.09%
V 292.402†	66926.7	0.4209	mg/L	0.00405	0.8417	mg/L	0.00811	0.96%
Zn 206.200†	1163.5	0.2914	mg/L	0.00397	0.5828	mg/L	0.00793	1.36%

Sequence No.: 46
Sample ID: SS71 IDUP SWC

Dilution: 2X

Autosampler Location: 336
Date Collected: 4/27/2011 11:59:19 AM
Data Type: Original

Nebulizer Parameters: SS71 IDUP SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 IDUP SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2498895.3	112.0	%	0.68				0.61%
ScR 361.383	451467.2	113.4	%	1.20				1.06%
Ag 328.068†	52.3	0.00008	mg/L	0.000133	0.00016	mg/L	0.000265	168.74%
Al 308.215†	208364.8	149.3	mg/L	1.27	298.6	mg/L	2.54	0.85%
As 188.979†	-18.9	0.04265	mg/L	0.004036	0.08531	mg/L	0.008073	9.46%
B 249.677†	50.6	0.00893	mg/L	0.000784	0.01785	mg/L	0.001567	8.78%
Ba 233.527†	3688.0	0.5021	mg/L	0.00514	1.004	mg/L	0.0103	1.02%
Be 313.042†	2024.3	0.00207	mg/L	0.000050	0.00414	mg/L	0.000099	2.39%
Ca 317.933†	398736.2	34.30	mg/L	0.541	68.60	mg/L	1.083	1.58%
Cd 228.802†	27.8	0.00128	mg/L	0.000297	0.00255	mg/L	0.000594	23.28%
Co 228.616†	2404.7	0.06419	mg/L	0.000251	0.1284	mg/L	0.00050	0.39%
Cr 267.716†	2828.6	0.3582	mg/L	0.00303	0.7165	mg/L	0.00606	0.85%
Cu 324.752†	39030.8	0.1743	mg/L	0.00158	0.3485	mg/L	0.00316	0.91%
Fe 273.955†	210013.9	164.2	mg/L	1.77	328.4	mg/L	3.53	1.08%
K 766.490†	9789.1	5.323	mg/L	0.0663	10.65	mg/L	0.133	1.24%
Mg 279.077†	56519.4	44.90	mg/L	0.523	89.80	mg/L	1.046	1.17%
Mn 257.610†	79867.9	1.694	mg/L	0.0209	3.388	mg/L	0.0418	1.23%
Mo 202.031†	40.7	0.00190	mg/L	0.000238	0.00381	mg/L	0.000475	12.48%
Na 589.592†	19417.0	1.547	mg/L	0.0156	3.093	mg/L	0.0312	1.01%
Na 330.237†	24.4	3.259	mg/L	0.1365	6.518	mg/L	0.2729	4.19%
Ni 231.604†	1400.0	0.3843	mg/L	0.00474	0.7686	mg/L	0.00948	1.23%
Pb 220.353†	-22.6	0.01727	mg/L	0.000760	0.03454	mg/L	0.001519	4.40%
Sb 206.836†	-13.8	0.00338	mg/L	0.000994	0.00675	mg/L	0.001988	29.44%
Se 196.026†	31.9	0.01693	mg/L	0.004185	0.03386	mg/L	0.008370	24.72%
Si 288.158†	9274.9	5.602	mg/L	0.0474	11.20	mg/L	0.095	0.85%
Sn 189.927†	-68.2	-0.00173	mg/L	0.000840	-0.00346	mg/L	0.001681	48.51%
Sr 421.552†	244388.8	0.2824	mg/L	0.00313	0.5649	mg/L	0.00626	1.11%
Ti 334.903†	227012.4	7.276	mg/L	0.0813	14.55	mg/L	0.163	1.12%
Tl 190.801†	-24.2	0.00654	mg/L	0.003284	0.01309	mg/L	0.006568	50.19%
V 292.402†	67110.2	0.4215	mg/L	0.00340	0.8430	mg/L	0.00681	0.81%
Zn 206.200†	1133.2	0.2838	mg/L	0.00210	0.5677	mg/L	0.00420	0.74%

Sequence No.: 47
Sample ID: SS71 N SWC

Autosampler Location: 337
Date Collected: 4/27/2011 12:03:17 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 N SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 N SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2477380.1	111.0	%	0.78				0.70%
ScR 361.383	446836.5	112.3	%	0.63				0.56%
Ag 328.068†	92.8	0.00019	mg/L	0.000293	0.00039	mg/L	0.000586	150.69%
Al 308.215†	140377.3	100.6	mg/L	0.35	201.1	mg/L	0.71	0.35%
As 188.979†	-13.8	0.04536	mg/L	0.003326	0.09072	mg/L	0.006653	7.33%
B 249.677†	55.2	0.00978	mg/L	0.000261	0.01955	mg/L	0.000522	2.67%
Ba 233.527†	3092.3	0.4214	mg/L	0.00321	0.8429	mg/L	0.00642	0.76%
Be 313.042†	1275.1	0.00127	mg/L	0.000031	0.00253	mg/L	0.000062	2.44%
Ca 317.933†	501813.0	43.17	mg/L	0.215	86.33	mg/L	0.431	0.50%
Cd 228.802†	25.0	0.00113	mg/L	0.000049	0.00225	mg/L	0.000098	4.37%
Co 228.616†	2157.9	0.05644	mg/L	0.000258	0.1129	mg/L	0.00052	0.46%
Cr 267.716†	2111.4	0.2670	mg/L	0.00216	0.5341	mg/L	0.00431	0.81%
Cu 324.752†	20092.8	0.09092	mg/L	0.000800	0.1818	mg/L	0.00160	0.88%
Fe 273.955†	167789.9	131.2	mg/L	0.82	262.3	mg/L	1.64	0.63%
K 766.490†	8303.0	4.515	mg/L	0.0284	9.029	mg/L	0.0569	0.63%
Mg 279.077†	51338.1	40.79	mg/L	0.177	81.58	mg/L	0.354	0.43%
Mn 257.610†	101664.9	2.156	mg/L	0.0120	4.312	mg/L	0.0241	0.56%
Mo 202.031†	58.6	0.00285	mg/L	0.000379	0.00570	mg/L	0.000758	13.29%
Na 589.592†	25486.9	2.030	mg/L	0.0179	4.060	mg/L	0.0358	0.88%
Na 330.237†	41.6	3.882	mg/L	0.1575	7.764	mg/L	0.3150	4.06%
Ni 231.604†	1182.5	0.3246	mg/L	0.00222	0.6492	mg/L	0.00444	0.68%
Pb 220.353†	68.2	0.02055	mg/L	0.000886	0.04110	mg/L	0.001772	4.31%
Sb 206.836†	-7.2	0.00654	mg/L	0.001391	0.01308	mg/L	0.002782	21.26%
Se 196.026†	36.6	0.01980	mg/L	0.001225	0.03961	mg/L	0.002449	6.18%
Si 288.158†	11773.0	7.108	mg/L	0.0402	14.22	mg/L	0.080	0.57%
Sn 189.927†	-83.1	-0.00231	mg/L	0.000368	-0.00461	mg/L	0.000736	15.96%
Sr 421.552†	234779.7	0.2713	mg/L	0.00131	0.5427	mg/L	0.00262	0.48%
Ti 334.903†	226279.5	7.251	mg/L	0.0389	14.50	mg/L	0.078	0.54%
Tl 190.801†	-21.1	0.00417	mg/L	0.006643	0.00834	mg/L	0.013285	159.20%
V 292.402†	53044.2	0.3322	mg/L	0.00206	0.6643	mg/L	0.00413	0.62%
Zn 206.200†	899.3	0.2252	mg/L	0.00142	0.4505	mg/L	0.00284	0.63%

Sequence No.: 48
Sample ID: SS71 O SWC

Autosampler Location: 338
Date Collected: 4/27/2011 12:07:15 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 O SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 O SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2499651.8	112.0	%	0.47				0.42%
ScR 361.383	453000.8	113.8	%	0.65				0.57%
Ag 328.068†	129.3	0.00038	mg/L	0.000193	0.00077	mg/L	0.000387	50.53%
Al 308.215†	149399.0	107.0	mg/L	0.04	214.1	mg/L	0.09	0.04%
As 188.979†	-17.5	0.04678	mg/L	0.002423	0.09357	mg/L	0.004847	5.18%
B 249.677†	47.4	0.00836	mg/L	0.001751	0.01673	mg/L	0.003502	20.94%
Ba 233.527†	3228.7	0.4393	mg/L	0.00405	0.8785	mg/L	0.00810	0.92%
Be 313.042†	1452.7	0.00144	mg/L	0.000022	0.00289	mg/L	0.000043	1.50%
Ca 317.933†	523077.4	45.00	mg/L	0.207	89.99	mg/L	0.414	0.46%
Cd 228.802†	28.3	0.00126	mg/L	0.000067	0.00253	mg/L	0.000133	5.28%
Co 228.616†	2322.7	0.06082	mg/L	0.000595	0.1216	mg/L	0.00119	0.98%
Cr 267.716†	2213.2	0.2802	mg/L	0.00209	0.5603	mg/L	0.00419	0.75%
Cu 324.752†	23181.3	0.1049	mg/L	0.00019	0.2099	mg/L	0.00039	0.18%
Fe 273.955†	189926.9	148.5	mg/L	0.32	297.0	mg/L	0.63	0.21%
K 766.490†	10048.7	5.464	mg/L	0.0366	10.93	mg/L	0.073	0.67%
Mg 279.077†	58326.2	46.34	mg/L	0.172	92.69	mg/L	0.345	0.37%
Mn 257.610†	106718.6	2.263	mg/L	0.0110	4.527	mg/L	0.0220	0.49%
Mo 202.031†	64.4	0.00318	mg/L	0.000087	0.00637	mg/L	0.000173	2.72%
Na 589.592†	27226.5	2.169	mg/L	0.0046	4.337	mg/L	0.0092	0.21%
Na 330.237†	44.5	4.155	mg/L	0.1034	8.309	mg/L	0.2068	2.49%
Ni 231.604†	1239.8	0.3403	mg/L	0.00229	0.6806	mg/L	0.00459	0.67%
Pb 220.353†	77.4	0.02191	mg/L	0.000802	0.04382	mg/L	0.001604	3.66%
Sb 206.836†	-8.8	0.00671	mg/L	0.003194	0.01343	mg/L	0.006387	47.58%
Se 196.026†	39.2	0.02110	mg/L	0.003052	0.04220	mg/L	0.006103	14.46%
Si 288.158†	8302.1	5.015	mg/L	0.0359	10.03	mg/L	0.072	0.72%
Sn 189.927†	-85.0	-0.00200	mg/L	0.000620	-0.00400	mg/L	0.001240	30.99%
Sr 421.552†	254139.8	0.2937	mg/L	0.00075	0.5874	mg/L	0.00150	0.26%
Ti 334.903†	242348.8	7.766	mg/L	0.0238	15.53	mg/L	0.048	0.31%
Tl 190.801†	-37.0	-0.00316	mg/L	0.002274	-0.00633	mg/L	0.004547	71.87%
V 292.402†	60119.3	0.3766	mg/L	0.00160	0.7533	mg/L	0.00320	0.43%
Zn 206.200†	990.6	0.2481	mg/L	0.00242	0.4962	mg/L	0.00483	0.97%

Sequence No.: 49
Sample ID: SS71 P SWC

Autosampler Location: 339
Date Collected: 4/27/2011 12:11:13 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 P SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 P SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2504049.7	112.2	%	0.73				0.65%
ScR 361.383	455222.3	114.4	%	0.67				0.59%
Ag 328.068†	126.8	0.00033	mg/L	0.000205	0.00065	mg/L	0.000410	63.10%
Al 308.215†	130997.4	93.85	mg/L	0.425	187.7	mg/L	0.85	0.45%
As 188.979†	2.3	0.04760	mg/L	0.000860	0.09521	mg/L	0.001719	1.81%
B 249.677†	54.4	0.00963	mg/L	0.000357	0.01926	mg/L	0.000714	3.71%
Ba 233.527†	2814.0	0.3822	mg/L	0.00453	0.7644	mg/L	0.00906	1.19%
Be 313.042†	1349.5	0.00136	mg/L	0.000034	0.00271	mg/L	0.000068	2.51%
Ca 317.933†	496081.9	42.67	mg/L	0.111	85.35	mg/L	0.222	0.26%
Cd 228.802†	26.7	0.00117	mg/L	0.000099	0.00235	mg/L	0.000199	8.46%
Co 228.616†	2298.5	0.06270	mg/L	0.000630	0.1254	mg/L	0.00126	1.01%
Cr 267.716†	2086.9	0.2636	mg/L	0.00262	0.5272	mg/L	0.00524	0.99%
Cu 324.752†	23149.3	0.1048	mg/L	0.00071	0.2097	mg/L	0.00142	0.68%
Fe 273.955†	178685.4	139.7	mg/L	0.88	279.4	mg/L	1.77	0.63%
K 766.490†	10762.0	5.852	mg/L	0.0214	11.70	mg/L	0.043	0.37%
Mg 279.077†	65022.9	51.68	mg/L	0.185	103.4	mg/L	0.37	0.36%
Mn 257.610†	115146.9	2.442	mg/L	0.0138	4.884	mg/L	0.0275	0.56%
Mo 202.031†	62.6	0.00312	mg/L	0.000453	0.00623	mg/L	0.000906	14.54%
Na 589.592†	30326.7	2.416	mg/L	0.0112	4.831	mg/L	0.0223	0.46%
Na 330.237†	65.1	4.335	mg/L	0.2518	8.671	mg/L	0.5037	5.81%
Ni 231.604†	1335.9	0.3667	mg/L	0.00508	0.7334	mg/L	0.01016	1.38%
Pb 220.353†	81.5	0.02031	mg/L	0.000413	0.04062	mg/L	0.000826	2.03%
Sb 206.836†	-5.9	0.00542	mg/L	0.000528	0.01084	mg/L	0.001055	9.74%
Se 196.026†	41.7	0.02310	mg/L	0.005068	0.04620	mg/L	0.010136	21.94%
Si 288.158†	7896.7	4.771	mg/L	0.0513	9.542	mg/L	0.1025	1.07%
Sn 189.927†	-75.1	-0.00126	mg/L	0.000853	-0.00251	mg/L	0.001705	67.84%
Sr 421.552†	231926.1	0.2680	mg/L	0.00095	0.5361	mg/L	0.00190	0.36%
Ti 334.903†	191449.3	6.134	mg/L	0.0255	12.27	mg/L	0.051	0.42%
Tl 190.801†	-19.6	0.00620	mg/L	0.003410	0.01240	mg/L	0.006819	55.01%
V 292.402†	51729.4	0.3236	mg/L	0.00180	0.6472	mg/L	0.00360	0.56%
Zn 206.200†	1047.2	0.2623	mg/L	0.00214	0.5246	mg/L	0.00428	0.82%

Sequence No.: 50
Sample ID: SS71 Q SWC
Autosampler Location: 340
Date Collected: 4/27/2011 12:15:11 PM
Data Type: Original
Dilution: 2X

Nebulizer Parameters: SS71 Q SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SS71 Q SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2492936.0	111.7	%	0.07				0.07%
ScR 361.383	450310.0	113.2	%	2.38				2.10%
Ag 328.068†	138.1	0.00039	mg/L	0.000215	0.00078	mg/L	0.000431	55.20%
Al 308.215†	132248.9	94.75	mg/L	0.219	189.5	mg/L	0.44	0.23%
As 188.979†	-1.1	0.04802	mg/L	0.002302	0.09604	mg/L	0.004604	4.79%
B 249.677†	55.9	0.00990	mg/L	0.000739	0.01980	mg/L	0.001477	7.46%
Ba 233.527†	2681.2	0.3635	mg/L	0.00314	0.7271	mg/L	0.00629	0.86%
Be 313.042†	1388.0	0.00140	mg/L	0.000018	0.00279	mg/L	0.000035	1.26%
Ca 317.933†	507559.8	43.66	mg/L	0.115	87.32	mg/L	0.231	0.26%
Cd 228.802†	24.9	0.00112	mg/L	0.000105	0.00223	mg/L	0.000210	9.42%
Co 228.616†	2361.4	0.06412	mg/L	0.000787	0.1282	mg/L	0.00157	1.23%
Cr 267.716†	2409.4	0.3041	mg/L	0.00218	0.6083	mg/L	0.00437	0.72%
Cu 324.752†	24035.7	0.1087	mg/L	0.00112	0.2173	mg/L	0.00223	1.03%
Fe 273.955†	181869.9	142.2	mg/L	0.12	284.4	mg/L	0.24	0.08%
K 766.490†	11507.9	6.257	mg/L	0.0328	12.51	mg/L	0.066	0.52%
Mg 279.077†	64702.0	51.42	mg/L	0.035	102.8	mg/L	0.07	0.07%
Mn 257.610†	114519.8	2.429	mg/L	0.0056	4.857	mg/L	0.0112	0.23%
Mo 202.031†	69.3	0.00351	mg/L	0.000347	0.00702	mg/L	0.000694	9.88%
Na 589.592†	33478.2	2.667	mg/L	0.0029	5.333	mg/L	0.0058	0.11%
Na 330.237†	68.3	4.568	mg/L	0.1027	9.135	mg/L	0.2054	2.25%
Ni 231.604†	1339.8	0.3678	mg/L	0.00132	0.7356	mg/L	0.00264	0.36%
Pb 220.353†	66.9	0.01865	mg/L	0.001310	0.03731	mg/L	0.002620	7.02%
Sb 206.836†	-4.2	0.00622	mg/L	0.000883	0.01244	mg/L	0.001765	14.19%
Se 196.026†	42.0	0.02320	mg/L	0.002283	0.04639	mg/L	0.004566	9.84%
Si 288.158†	7432.1	4.491	mg/L	0.0332	8.981	mg/L	0.0664	0.74%
Sn 189.927†	-79.5	-0.00173	mg/L	0.000836	-0.00345	mg/L	0.001673	48.47%
Sr 421.552†	218087.6	0.2521	mg/L	0.00003	0.5041	mg/L	0.00006	0.01%
Ti 334.903†	202596.9	6.491	mg/L	0.0080	12.98	mg/L	0.016	0.12%
Tl 190.801†	-22.6	0.00473	mg/L	0.002960	0.00946	mg/L	0.005919	62.59%
V 292.402†	53004.1	0.3317	mg/L	0.00400	0.6634	mg/L	0.00800	1.21%
Zn 206.200†	1109.1	0.2778	mg/L	0.00291	0.5556	mg/L	0.00581	1.05%

Sequence No.: 51
Sample ID: SS71 R SWC

Autosampler Location: 341
Date Collected: 4/27/2011 12:19:10 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 R SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 R SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2497015.3	111.9	%	1.03				0.92%
ScR 361.383	453150.7	113.9	%	0.21				0.19%
Ag 328.068†	124.8	0.00027	mg/L	0.000272	0.00055	mg/L	0.000545	99.62%
Al 308.215†	167242.6	119.8	mg/L	0.74	239.6	mg/L	1.48	0.62%
As 188.979†	-3.6	0.05950	mg/L	0.001412	0.1190	mg/L	0.00282	2.37%
B 249.677†	61.9	0.01095	mg/L	0.001535	0.02190	mg/L	0.003069	14.01%
Ba 233.527†	3590.7	0.4886	mg/L	0.00350	0.9773	mg/L	0.00701	0.72%
Be 313.042†	1741.7	0.00175	mg/L	0.000025	0.00350	mg/L	0.000051	1.46%
Ca 317.933†	551913.4	47.48	mg/L	0.353	94.95	mg/L	0.705	0.74%
Cd 228.802†	38.2	0.00160	mg/L	0.000121	0.00319	mg/L	0.000242	7.58%
Co 228.616†	2683.8	0.07161	mg/L	0.000548	0.1432	mg/L	0.00110	0.77%
Cr 267.716†	2484.8	0.3143	mg/L	0.00169	0.6287	mg/L	0.00337	0.54%
Cu 324.752†	32707.7	0.1466	mg/L	0.00169	0.2933	mg/L	0.00338	1.15%
Fe 273.955†	208669.7	163.1	mg/L	1.24	326.3	mg/L	2.49	0.76%
K 766.490†	12687.7	6.899	mg/L	0.0094	13.80	mg/L	0.019	0.14%
Mg 279.077†	66985.7	53.23	mg/L	0.285	106.5	mg/L	0.57	0.54%
Mn 257.610†	132013.0	2.800	mg/L	0.0151	5.599	mg/L	0.0303	0.54%
Mo 202.031†	63.9	0.00310	mg/L	0.000358	0.00621	mg/L	0.000716	11.53%
Na 589.592†	31844.8	2.537	mg/L	0.0139	5.073	mg/L	0.0278	0.55%
Na 330.237†	54.8	4.631	mg/L	0.1467	9.263	mg/L	0.2934	3.17%
Ni 231.604†	1330.1	0.3651	mg/L	0.00301	0.7302	mg/L	0.00602	0.82%
Pb 220.353†	590.4	0.08531	mg/L	0.001712	0.1706	mg/L	0.00342	2.01%
Sb 206.836†	-6.5	0.00805	mg/L	0.002633	0.01611	mg/L	0.005266	32.69%
Se 196.026†	45.0	0.02485	mg/L	0.004882	0.04971	mg/L	0.009765	19.64%
Si 288.158†	11804.2	7.129	mg/L	0.0336	14.26	mg/L	0.067	0.47%
Sn 189.927†	-78.4	0.00007	mg/L	0.001567	0.00014	mg/L	0.003133	>999.9%
Sr 421.552†	241289.1	0.2789	mg/L	0.00133	0.5577	mg/L	0.00266	0.48%
Ti 334.903†	254432.7	8.153	mg/L	0.0474	16.31	mg/L	0.095	0.58%
Tl 190.801†	-25.4	0.00566	mg/L	0.007411	0.01132	mg/L	0.014822	130.92%
V 292.402†	66957.3	0.4200	mg/L	0.00594	0.8400	mg/L	0.01187	1.41%
Zn 206.200†	1347.7	0.3376	mg/L	0.00259	0.6751	mg/L	0.00519	0.77%

Sequence No.: 52
Sample ID: SS71 S SWC

Autosampler Location: 342
Date Collected: 4/27/2011 12:23:08 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 S SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS71 S SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2518493.3	112.9	%	0.29				0.26%
ScR 361.383	460112.9	115.6	%	0.91				0.79%
Ag 328.068†	167.8	0.00052	mg/L	0.000165	0.00104	mg/L	0.000331	31.77%
Al 308.215†	173043.1	124.0	mg/L	0.52	248.0	mg/L	1.05	0.42%
As 188.979†	9.9	0.07028	mg/L	0.003035	0.1406	mg/L	0.00607	4.32%
B 249.677†	66.5	0.01178	mg/L	0.001173	0.02357	mg/L	0.002346	9.95%
Ba 233.527†	3499.5	0.4765	mg/L	0.00552	0.9530	mg/L	0.01104	1.16%
Be 313.042†	1725.5	0.00173	mg/L	0.000049	0.00346	mg/L	0.000097	2.81%
Ca 317.933†	558417.3	48.04	mg/L	0.095	96.07	mg/L	0.189	0.20%
Cd 228.802†	49.9	0.00197	mg/L	0.000071	0.00393	mg/L	0.000143	3.63%
Co 228.616†	2642.4	0.07003	mg/L	0.000513	0.1401	mg/L	0.00103	0.73%
Cr 267.716†	2546.9	0.3223	mg/L	0.00238	0.6447	mg/L	0.00476	0.74%
Cu 324.752†	37916.0	0.1687	mg/L	0.00078	0.3374	mg/L	0.00156	0.46%
Fe 273.955†	198621.5	155.3	mg/L	0.56	310.5	mg/L	1.12	0.36%
K 766.490†	10247.8	5.572	mg/L	0.0448	11.14	mg/L	0.090	0.80%
Mg 279.077†	56459.5	44.85	mg/L	0.117	89.71	mg/L	0.234	0.26%
Mn 257.610†	127899.1	2.712	mg/L	0.0087	5.425	mg/L	0.0174	0.32%
Mo 202.031†	69.1	0.00342	mg/L	0.000414	0.00683	mg/L	0.000828	12.12%
Na 589.592†	38405.2	3.059	mg/L	0.0130	6.118	mg/L	0.0259	0.42%
Na 330.237†	61.2	4.916	mg/L	0.2060	9.831	mg/L	0.4120	4.19%
Ni 231.604†	1235.0	0.3390	mg/L	0.00309	0.6780	mg/L	0.00617	0.91%
Pb 220.353†	1034.4	0.1400	mg/L	0.00079	0.2800	mg/L	0.00157	0.56%
Sb 206.836†	-11.2	0.00634	mg/L	0.000949	0.01268	mg/L	0.001898	14.97%
Se 196.026†	41.8	0.02293	mg/L	0.007033	0.04587	mg/L	0.014067	30.67%
Si 288.158†	9853.1	5.951	mg/L	0.0665	11.90	mg/L	0.133	1.12%
Sn 189.927†	-78.6	0.00025	mg/L	0.001287	0.00049	mg/L	0.002574	520.12%
Sr 421.552†	225581.8	0.2607	mg/L	0.00087	0.5214	mg/L	0.00175	0.34%
Ti 334.903†	259783.2	8.325	mg/L	0.0238	16.65	mg/L	0.048	0.29%
Tl 190.801†	-14.1	0.01144	mg/L	0.003066	0.02287	mg/L	0.006132	26.81%
V 292.402†	67310.1	0.4229	mg/L	0.00260	0.8457	mg/L	0.00519	0.61%
Zn 206.200†	1353.4	0.3390	mg/L	0.00426	0.6780	mg/L	0.00852	1.26%

Sequence No.: 53
Sample ID: SS83 MB2SPK TWC

Autosampler Location: 343
Date Collected: 4/27/2011 12:27:06 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: SS83 MB2SPK TWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 MB2SPK TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2479986.6	111.1	%	0.54				0.48%
ScR 361.383	448726.1	112.8	%	1.27				1.13%
Ag 328.068†	98720.0	0.5322	mg/L	0.00435	0.5322	mg/L	0.00435	0.82%
Al 308.215†	2914.7	2.079	mg/L	0.0585	2.079	mg/L	0.0585	2.81%
As 188.979†	2919.2	2.054	mg/L	0.0149	2.054	mg/L	0.0149	0.73%
B 249.677†	6.2	-0.00007	mg/L	0.001341	-0.00007	mg/L	0.001341	>999.9%
Ba 233.527†	14344.6	1.995	mg/L	0.0265	1.995	mg/L	0.0265	1.33%
Be 313.042†	443088.3	0.5047	mg/L	0.00479	0.5047	mg/L	0.00479	0.95%
Ca 317.933†	113469.3	9.761	mg/L	0.0786	9.761	mg/L	0.0786	0.81%
Cd 228.802†	14154.8	0.5016	mg/L	0.00591	0.5016	mg/L	0.00591	1.18%
Co 228.616†	15642.0	0.4947	mg/L	0.00376	0.4947	mg/L	0.00376	0.76%
Cr 267.716†	3959.9	0.4954	mg/L	0.00633	0.4954	mg/L	0.00633	1.28%
Cu 324.752†	115728.6	0.4996	mg/L	0.00323	0.4996	mg/L	0.00323	0.65%
Fe 273.955†	2678.4	2.091	mg/L	0.0805	2.091	mg/L	0.0805	3.85%
K 766.490†	18592.4	10.11	mg/L	0.096	10.11	mg/L	0.096	0.95%
Mg 279.077†	12825.6	10.21	mg/L	0.111	10.21	mg/L	0.111	1.09%
Mn 257.610†	23129.7	0.4909	mg/L	0.00551	0.4909	mg/L	0.00551	1.12%
Mo 202.031†	22.2	0.00120	mg/L	0.000126	0.00120	mg/L	0.000126	10.47%
Na 589.592†	126774.8	10.10	mg/L	0.093	10.10	mg/L	0.093	0.92%
Na 330.237†	328.1	11.62	mg/L	0.119	11.62	mg/L	0.119	1.03%
Ni 231.604†	1839.1	0.5048	mg/L	0.00656	0.5048	mg/L	0.00656	1.30%
Pb 220.353†	16617.8	2.001	mg/L	0.0222	2.001	mg/L	0.0222	1.11%
Sb 206.836†	9.9	0.00080	mg/L	0.000861	0.00080	mg/L	0.000861	107.59%
Se 196.026†	2592.8	2.109	mg/L	0.0112	2.109	mg/L	0.0112	0.53%
Si 288.158†	0.8	0.00362	mg/L	0.004551	0.00362	mg/L	0.004551	125.85%
Sn 189.927†	-23.8	-0.00208	mg/L	0.000898	-0.00208	mg/L	0.000898	43.10%
Sr 421.552†	442319.6	0.5112	mg/L	0.00466	0.5112	mg/L	0.00466	0.91%
Ti 334.903†	129.7	0.00239	mg/L	0.004932	0.00239	mg/L	0.004932	206.46%
Tl 190.801†	3374.2	2.036	mg/L	0.0211	2.036	mg/L	0.0211	1.04%
V 292.402†	76665.4	0.5021	mg/L	0.00404	0.5021	mg/L	0.00404	0.80%
Zn 206.200†	1988.1	0.4981	mg/L	0.00615	0.4981	mg/L	0.00615	1.23%

Sequence No.: 54
Sample ID: CV 5

Autosampler Location: 7
Date Collected: 4/27/2011 12:31:04 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2443017.0	109.5	%	0.57				0.52%
ScR 361.383	437187.1	109.9	%	0.93				0.84%
Ag 328.068†	188324.5	1.015	mg/L	0.0063	1.015	mg/L	0.0063	0.62%
Al 308.215†	2837.5	2.000	mg/L	0.0299	2.000	mg/L	0.0299	1.49%
As 188.979†	2824.0	1.994	mg/L	0.0228	1.994	mg/L	0.0228	1.14%
B 249.677†	5602.8	1.008	mg/L	0.0051	1.008	mg/L	0.0051	0.51%
Ba 233.527†	7092.5	0.9860	mg/L	0.00456	0.9860	mg/L	0.00456	0.46%
Be 313.042†	888314.4	1.012	mg/L	0.0017	1.012	mg/L	0.0017	0.17%
Ca 317.933†	23657.4	2.035	mg/L	0.0077	2.035	mg/L	0.0077	0.38%
Cd 228.802†	28290.8	1.010	mg/L	0.0090	1.010	mg/L	0.0090	0.89%
Co 228.616†	30462.2	0.9628	mg/L	0.00910	0.9628	mg/L	0.00910	0.95%
Cr 267.716†	7946.1	0.9954	mg/L	0.00531	0.9954	mg/L	0.00531	0.53%
Cu 324.752†	223479.0	0.9643	mg/L	0.00824	0.9643	mg/L	0.00824	0.85%
Fe 273.955†	2615.4	2.040	mg/L	0.0089	2.040	mg/L	0.0089	0.43%
K 766.490†	36679.3	19.94	mg/L	0.077	19.94	mg/L	0.077	0.39%
Mg 279.077†	2485.2	1.981	mg/L	0.0129	1.981	mg/L	0.0129	0.65%
Mn 257.610†	46351.2	0.9834	mg/L	0.00601	0.9834	mg/L	0.00601	0.61%
Mo 202.031†	15523.0	0.9684	mg/L	0.01058	0.9684	mg/L	0.01058	1.09%
Na 589.592†	636741.1	50.72	mg/L	0.175	50.72	mg/L	0.175	0.34%
Na 330.237†	1442.6	51.73	mg/L	0.250	51.73	mg/L	0.250	0.48%
Ni 231.604†	3757.8	1.033	mg/L	0.0072	1.033	mg/L	0.0072	0.69%
Pb 220.353†	16058.7	1.934	mg/L	0.0215	1.934	mg/L	0.0215	1.11%
Sb 206.836†	4948.8	1.988	mg/L	0.0248	1.988	mg/L	0.0248	1.25%
Se 196.026†	2470.1	2.011	mg/L	0.0255	2.011	mg/L	0.0255	1.27%
Si 288.158†	3376.3	2.043	mg/L	0.0055	2.043	mg/L	0.0055	0.27%
Sn 189.927†	4904.7	0.9637	mg/L	0.01167	0.9637	mg/L	0.01167	1.21%
Sr 421.552†	883300.0	1.021	mg/L	0.0013	1.021	mg/L	0.0013	0.12%
Ti 334.903†	29896.9	0.9573	mg/L	0.00210	0.9573	mg/L	0.00210	0.22%
Tl 190.801†	3263.6	1.971	mg/L	0.0189	1.971	mg/L	0.0189	0.96%
V 292.402†	148481.2	0.9731	mg/L	0.01544	0.9731	mg/L	0.01544	1.59%
Zn 206.200†	4009.5	1.004	mg/L	0.0049	1.004	mg/L	0.0049	0.48%

Sequence No.: 55
Sample ID: CB 5

Autosampler Location: 1
Date Collected: 4/27/2011 12:34:19 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2416662.8	108.3	%	0.75				0.69%
ScR 361.383	437810.2	110.0	%	0.55				0.50%
Ag 328.068†	133.4	0.00072	mg/L	0.000236	0.00072	mg/L	0.000236	32.84%
Al 308.215†	30.1	0.02160	mg/L	0.009149	0.02160	mg/L	0.009149	42.35%
As 188.979†	2.1	0.00146	mg/L	0.000901	0.00146	mg/L	0.000901	61.89%
B 249.677†	6.5	0.00117	mg/L	0.000892	0.00117	mg/L	0.000892	76.25%
Ba 233.527†	-2.8	-0.00039	mg/L	0.000766	-0.00039	mg/L	0.000766	196.20%
Be 313.042†	7.3	0.00001	mg/L	0.000026	0.00001	mg/L	0.000026	313.55%
Ca 317.933†	78.9	0.00678	mg/L	0.000923	0.00678	mg/L	0.000923	13.61%
Cd 228.802†	-3.6	-0.00013	mg/L	0.000179	-0.00013	mg/L	0.000179	135.52%
Co 228.616†	16.7	0.00053	mg/L	0.000101	0.00053	mg/L	0.000101	19.08%
Cr 267.716†	-2.3	-0.00029	mg/L	0.000989	-0.00029	mg/L	0.000989	343.32%
Cu 324.752†	-22.9	-0.00010	mg/L	0.000048	-0.00010	mg/L	0.000048	48.75%
Fe 273.955†	20.4	0.01592	mg/L	0.009291	0.01592	mg/L	0.009291	58.37%
K 766.490†	85.4	0.04642	mg/L	0.021587	0.04642	mg/L	0.021587	46.51%
Mg 279.077†	25.8	0.02048	mg/L	0.003789	0.02048	mg/L	0.003789	18.50%
Mn 257.610†	9.2	0.00019	mg/L	0.000232	0.00019	mg/L	0.000232	119.33%
Mo 202.031†	-6.8	-0.00043	mg/L	0.000226	-0.00043	mg/L	0.000226	53.12%
Na 589.592†	-294.4	-0.02345	mg/L	0.001939	-0.02345	mg/L	0.001939	8.27%
Na 330.237†	19.4	0.6960	mg/L	0.23777	0.6960	mg/L	0.23777	34.16%
Ni 231.604†	7.3	0.00200	mg/L	0.000767	0.00200	mg/L	0.000767	38.24%
Pb 220.353†	14.0	0.00169	mg/L	0.000214	0.00169	mg/L	0.000214	12.67%
Sb 206.836†	2.4	0.00099	mg/L	0.001199	0.00099	mg/L	0.001199	121.48%
Se 196.026†	10.1	0.00820	mg/L	0.004065	0.00820	mg/L	0.004065	49.59%
Si 288.158†	-3.0	-0.00179	mg/L	0.004139	-0.00179	mg/L	0.004139	231.77%
Sn 189.927†	5.7	0.00113	mg/L	0.000053	0.00113	mg/L	0.000053	4.69%
Sr 421.552†	138.5	0.00016	mg/L	0.000025	0.00016	mg/L	0.000025	15.71%
Ti 334.903†	-30.3	-0.00097	mg/L	0.000864	-0.00097	mg/L	0.000864	88.69%
Tl 190.801†	3.1	0.00189	mg/L	0.001930	0.00189	mg/L	0.001930	102.36%
V 292.402†	31.3	0.00020	mg/L	0.000137	0.00020	mg/L	0.000137	68.06%
Zn 206.200†	4.5	0.00114	mg/L	0.000369	0.00114	mg/L	0.000369	32.41%

Sequence No.: 56 **Autosampler Location: 344**
Sample ID: SS83 MB1 SWC **Date Collected: 4/27/2011 12:38:31 PM**
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 MB1 SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 MB1 SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2455378.6	110.0	%	0.59				0.54%
ScR 361.383	443056.2	111.3	%	0.63				0.57%
Ag 328.068†	144.9	0.00078	mg/L	0.000151	0.00156	mg/L	0.000301	19.28%
Al 308.215†	40.8	0.02926	mg/L	0.013581	0.05852	mg/L	0.027162	46.41%
As 188.979†	4.2	0.00293	mg/L	0.000445	0.00586	mg/L	0.000889	15.18%
B 249.677†	0.5	0.00009	mg/L	0.000784	0.00018	mg/L	0.001569	849.81%
Ba 233.527†	-0.7	-0.00010	mg/L	0.000173	-0.00021	mg/L	0.000345	167.92%
Be 313.042†	-53.1	-0.00006	mg/L	0.000025	-0.00012	mg/L	0.000049	40.87%
Ca 317.933†	142.8	0.01228	mg/L	0.002160	0.02456	mg/L	0.004320	17.59%
Cd 228.802†	-6.9	-0.00026	mg/L	0.000134	-0.00052	mg/L	0.000268	52.06%
Co 228.616†	15.8	0.00050	mg/L	0.000028	0.00100	mg/L	0.000056	5.62%
Cr 267.716†	2.0	0.00025	mg/L	0.000198	0.00051	mg/L	0.000396	77.84%
Cu 324.752†	-62.3	-0.00027	mg/L	0.000130	-0.00054	mg/L	0.000259	48.35%
Fe 273.955†	9.8	0.00765	mg/L	0.000884	0.01530	mg/L	0.001767	11.55%
K 766.490†	93.8	0.05098	mg/L	0.013168	0.1020	mg/L	0.02634	25.83%
Mg 279.077†	23.7	0.01884	mg/L	0.007461	0.03768	mg/L	0.014922	39.60%
Mn 257.610†	-6.5	-0.00014	mg/L	0.000079	-0.00028	mg/L	0.000157	56.95%
Mo 202.031†	-7.9	-0.00049	mg/L	0.000282	-0.00099	mg/L	0.000563	57.04%
Na 589.592†	-301.2	-0.02399	mg/L	0.002287	-0.04799	mg/L	0.004574	9.53%
Na 330.237†	33.5	1.200	mg/L	0.2244	2.401	mg/L	0.4487	18.69%
Ni 231.604†	5.9	0.00162	mg/L	0.000292	0.00323	mg/L	0.000584	18.04%
Pb 220.353†	14.2	0.00171	mg/L	0.000330	0.00342	mg/L	0.000660	19.27%
Sb 206.836†	-3.8	-0.00150	mg/L	0.000502	-0.00300	mg/L	0.001004	33.43%
Se 196.026†	12.1	0.00986	mg/L	0.003189	0.01972	mg/L	0.006378	32.35%
Si 288.158†	6.4	0.00383	mg/L	0.001690	0.00767	mg/L	0.003379	44.08%
Sn 189.927†	5.2	0.00102	mg/L	0.000508	0.00205	mg/L	0.001017	49.69%
Sr 421.552†	114.9	0.00013	mg/L	0.000030	0.00027	mg/L	0.000060	22.54%
Ti 334.903†	-55.6	-0.00179	mg/L	0.000233	-0.00357	mg/L	0.000466	13.06%
Tl 190.801†	5.6	0.00340	mg/L	0.002892	0.00680	mg/L	0.005784	85.03%
V 292.402†	9.4	0.00006	mg/L	0.000073	0.00013	mg/L	0.000145	115.85%
Zn 206.200†	9.5	0.00238	mg/L	0.000726	0.00477	mg/L	0.001452	30.46%

Sequence No.: 57
Sample ID: SS83 P TWC

Autosampler Location: 345
Date Collected: 4/27/2011 12:42:44 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: SS83 P TWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 P TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2438564.4	109.3	%	1.17				1.07%
ScR 361.383	433065.0	108.8	%	0.77				0.71%
Ag 328.068†	152.0	0.00082	mg/L	0.000160	0.00082	mg/L	0.000160	19.57%
Al 308.215†	50.5	0.03616	mg/L	0.005949	0.03616	mg/L	0.005949	16.45%
As 188.979†	1.9	0.00133	mg/L	0.000519	0.00133	mg/L	0.000519	39.03%
B 249.677†	12.3	0.00221	mg/L	0.001057	0.00221	mg/L	0.001057	47.92%
Ba 233.527†	23.9	0.00332	mg/L	0.000689	0.00332	mg/L	0.000689	20.76%
Be 313.042†	-13.8	-0.00002	mg/L	0.000003	-0.00002	mg/L	0.000003	20.94%
Ca 317.933†	1412.1	0.1215	mg/L	0.00077	0.1215	mg/L	0.00077	0.64%
Cd 228.802†	-6.3	-0.00023	mg/L	0.000138	-0.00023	mg/L	0.000138	59.90%
Co 228.616†	11.0	0.00035	mg/L	0.000085	0.00035	mg/L	0.000085	24.49%
Cr 267.716†	3.9	0.00049	mg/L	0.000660	0.00049	mg/L	0.000660	136.00%
Cu 324.752†	2864.3	0.01236	mg/L	0.000727	0.01236	mg/L	0.000727	5.88%
Fe 273.955†	93.2	0.07284	mg/L	0.002652	0.07284	mg/L	0.002652	3.64%
K 766.490†	357.7	0.1945	mg/L	0.00837	0.1945	mg/L	0.00837	4.31%
Mg 279.077†	34.3	0.02726	mg/L	0.004677	0.02726	mg/L	0.004677	17.16%
Mn 257.610†	199.7	0.00424	mg/L	0.000015	0.00424	mg/L	0.000015	0.35%
Mo 202.031†	-8.9	-0.00055	mg/L	0.000172	-0.00055	mg/L	0.000172	30.93%
Na 589.592†	496.5	0.03954	mg/L	0.002051	0.03954	mg/L	0.002051	5.19%
Na 330.237†	19.2	0.6819	mg/L	0.24591	0.6819	mg/L	0.24591	36.06%
Ni 231.604†	8.9	0.00244	mg/L	0.000935	0.00244	mg/L	0.000935	38.36%
Pb 220.353†	26.8	0.00322	mg/L	0.000481	0.00322	mg/L	0.000481	14.93%
Sb 206.836†	3.2	0.00131	mg/L	0.001331	0.00131	mg/L	0.001331	101.92%
Se 196.026†	8.8	0.00712	mg/L	0.003650	0.00712	mg/L	0.003650	51.29%
Si 288.158†	38.5	0.02323	mg/L	0.003419	0.02323	mg/L	0.003419	14.71%
Sn 189.927†	5.8	0.00116	mg/L	0.000287	0.00116	mg/L	0.000287	24.67%
Sr 421.552†	428.5	0.00050	mg/L	0.000037	0.00050	mg/L	0.000037	7.44%
Ti 334.903†	4.9	0.00014	mg/L	0.000104	0.00014	mg/L	0.000104	75.22%
Tl 190.801†	1.6	0.00099	mg/L	0.002698	0.00099	mg/L	0.002698	272.49%
V 292.402†	43.2	0.00028	mg/L	0.000106	0.00028	mg/L	0.000106	38.22%
Zn 206.200†	69.0	0.01728	mg/L	0.000707	0.01728	mg/L	0.000707	4.09%

Sequence No.: 58
Sample ID: SS83 A SWC

Autosampler Location: 346
Date Collected: 4/27/2011 12:46:41 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 A SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2501558.8	112.1	%	0.30				0.27%
ScR 361.383	447203.4	112.4	%	1.84				1.64%
Ag 328.068†	109.5	0.00015	mg/L	0.000179	0.00029	mg/L	0.000359	123.34%
Al 308.215†	242957.1	174.1	mg/L	0.71	348.2	mg/L	1.42	0.41%
As 188.979†	6.6	0.07260	mg/L	0.004436	0.1452	mg/L	0.00887	6.11%
B 249.677†	49.3	0.00866	mg/L	0.000202	0.01732	mg/L	0.000403	2.33%
Ba 233.527†	5375.9	0.7357	mg/L	0.01239	1.471	mg/L	0.0248	1.68%
Be 313.042†	2402.5	0.00251	mg/L	0.000070	0.00501	mg/L	0.000141	2.81%
Ca 317.933†	430795.3	37.06	mg/L	0.195	74.12	mg/L	0.390	0.53%
Cd 228.802†	50.8	0.00202	mg/L	0.000137	0.00404	mg/L	0.000273	6.77%
Co 228.616†	2857.2	0.07604	mg/L	0.000272	0.1521	mg/L	0.00054	0.36%
Cr 267.716†	2541.5	0.3225	mg/L	0.00484	0.6451	mg/L	0.00968	1.50%
Cu 324.752†	40452.3	0.1808	mg/L	0.00025	0.3617	mg/L	0.00050	0.14%
Fe 273.955†	233126.3	182.2	mg/L	0.83	364.5	mg/L	1.65	0.45%
K 766.490†	10376.0	5.642	mg/L	0.0304	11.28	mg/L	0.061	0.54%
Mg 279.077†	65821.2	52.29	mg/L	0.175	104.6	mg/L	0.35	0.33%
Mn 257.610†	143858.4	3.051	mg/L	0.0091	6.101	mg/L	0.0182	0.30%
Mo 202.031†	49.0	0.00237	mg/L	0.000309	0.00473	mg/L	0.000618	13.06%
Na 589.592†	19726.2	1.571	mg/L	0.0068	3.143	mg/L	0.0135	0.43%
Na 330.237†	11.6	3.272	mg/L	0.3480	6.543	mg/L	0.6960	10.64%
Ni 231.604†	1296.3	0.3558	mg/L	0.00613	0.7116	mg/L	0.01227	1.72%
Pb 220.353†	990.2	0.1429	mg/L	0.00088	0.2857	mg/L	0.00176	0.62%
Sb 206.836†	-22.1	0.00267	mg/L	0.000756	0.00533	mg/L	0.001512	28.36%
Se 196.026†	44.1	0.02578	mg/L	0.007488	0.05157	mg/L	0.014976	29.04%
Si 288.158†	9858.9	5.955	mg/L	0.0993	11.91	mg/L	0.199	1.67%
Sn 189.927†	-61.1	0.00092	mg/L	0.000822	0.00183	mg/L	0.001643	89.63%
Sr 421.552†	205791.2	0.2378	mg/L	0.00099	0.4757	mg/L	0.00199	0.42%
Ti 334.903†	273708.2	8.774	mg/L	0.0312	17.55	mg/L	0.062	0.36%
Tl 190.801†	-25.8	0.00798	mg/L	0.000734	0.01597	mg/L	0.001468	9.19%
V 292.402†	66254.9	0.4136	mg/L	0.00139	0.8271	mg/L	0.00279	0.34%
Zn 206.200†	1650.1	0.4133	mg/L	0.00540	0.8267	mg/L	0.01080	1.31%

Sequence No.: 59
Sample ID: SS83 B SWC

Autosampler Location: 347
Date Collected: 4/27/2011 12:50:25 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 B SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 B SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2512494.2	112.6	%	0.83				0.73%
ScR 361.383	453414.1	113.9	%	0.86				0.75%
Ag 328.068†	138.0	0.00048	mg/L	0.000189	0.00096	mg/L	0.000378	39.25%
Al 308.215†	124253.8	89.02	mg/L	0.147	178.0	mg/L	0.29	0.17%
As 188.979†	110.1	0.1212	mg/L	0.00306	0.2423	mg/L	0.00612	2.52%
B 249.677†	71.9	0.01282	mg/L	0.000394	0.02564	mg/L	0.000788	3.07%
Ba 233.527†	3086.5	0.4207	mg/L	0.00572	0.8415	mg/L	0.01144	1.36%
Be 313.042†	1165.0	0.00115	mg/L	0.000021	0.00230	mg/L	0.000041	1.80%
Ca 317.933†	357242.3	30.73	mg/L	0.139	61.46	mg/L	0.278	0.45%
Cd 228.802†	51.1	0.00170	mg/L	0.000050	0.00339	mg/L	0.000100	2.95%
Co 228.616†	1812.2	0.04800	mg/L	0.000877	0.09600	mg/L	0.001754	1.83%
Cr 267.716†	1611.4	0.2050	mg/L	0.00311	0.4099	mg/L	0.00622	1.52%
Cu 324.752†	34956.0	0.1555	mg/L	0.00222	0.3110	mg/L	0.00443	1.43%
Fe 273.955†	165969.1	129.7	mg/L	0.10	259.5	mg/L	0.19	0.07%
K 766.490†	11719.9	6.373	mg/L	0.0127	12.75	mg/L	0.025	0.20%
Mg 279.077†	42525.5	33.78	mg/L	0.070	67.56	mg/L	0.140	0.21%
Mn 257.610†	89028.9	1.888	mg/L	0.0015	3.776	mg/L	0.0031	0.08%
Mo 202.031†	175.8	0.01039	mg/L	0.000467	0.02079	mg/L	0.000934	4.49%
Na 589.592†	15844.8	1.262	mg/L	0.0023	2.524	mg/L	0.0047	0.18%
Na 330.237†	35.6	3.124	mg/L	0.1136	6.247	mg/L	0.2272	3.64%
Ni 231.604†	879.2	0.2413	mg/L	0.00388	0.4827	mg/L	0.00777	1.61%
Pb 220.353†	1165.2	0.1502	mg/L	0.00112	0.3004	mg/L	0.00223	0.74%
Sb 206.836†	-14.6	0.00186	mg/L	0.004086	0.00372	mg/L	0.008172	219.84%
Se 196.026†	38.4	0.02369	mg/L	0.005176	0.04738	mg/L	0.010352	21.85%
Si 288.158†	4505.8	2.723	mg/L	0.0362	5.446	mg/L	0.0723	1.33%
Sn 189.927†	-51.0	0.00016	mg/L	0.000665	0.00032	mg/L	0.001331	420.97%
Sr 421.552†	182069.6	0.2104	mg/L	0.00012	0.4208	mg/L	0.00023	0.05%
Ti 334.903†	178205.0	5.711	mg/L	0.0073	11.42	mg/L	0.015	0.13%
Tl 190.801†	-14.7	0.00796	mg/L	0.001643	0.01592	mg/L	0.003286	20.64%
V 292.402†	51150.1	0.3206	mg/L	0.00403	0.6411	mg/L	0.00806	1.26%
Zn 206.200†	1259.5	0.3155	mg/L	0.00237	0.6310	mg/L	0.00473	0.75%

Sequence No.: 60
Sample ID: SS83 C SWC

Autosampler Location: 348
Date Collected: 4/27/2011 12:54:22 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 C SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 C SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2479677.7	111.1	%	1.10				0.99%
ScR 361.383	455015.4	114.3	%	0.86				0.75%
Ag 328.068†	114.1	0.00041	mg/L	0.000064	0.00083	mg/L	0.000127	15.35%
Al 308.215†	117510.5	84.19	mg/L	0.307	168.4	mg/L	0.61	0.37%
As 188.979†	12.1	0.05578	mg/L	0.000593	0.1116	mg/L	0.00119	1.06%
B 249.677†	46.5	0.00826	mg/L	0.000490	0.01652	mg/L	0.000980	5.93%
Ba 233.527†	2502.7	0.3403	mg/L	0.00202	0.6805	mg/L	0.00403	0.59%
Be 313.042†	836.3	0.00079	mg/L	0.000008	0.00159	mg/L	0.000015	0.95%
Ca 317.933†	379724.9	32.66	mg/L	0.056	65.33	mg/L	0.111	0.17%
Cd 228.802†	27.6	0.00110	mg/L	0.000088	0.00220	mg/L	0.000176	7.97%
Co 228.616†	1631.9	0.04156	mg/L	0.000303	0.08311	mg/L	0.000605	0.73%
Cr 267.716†	2021.0	0.2553	mg/L	0.00213	0.5105	mg/L	0.00426	0.83%
Cu 324.752†	27515.3	0.1226	mg/L	0.00197	0.2453	mg/L	0.00394	1.61%
Fe 273.955†	151826.7	118.7	mg/L	0.40	237.4	mg/L	0.81	0.34%
K 766.490†	9834.8	5.348	mg/L	0.0324	10.70	mg/L	0.065	0.61%
Mg 279.077†	52187.8	41.47	mg/L	0.084	82.94	mg/L	0.169	0.20%
Mn 257.610†	70665.6	1.499	mg/L	0.0050	2.998	mg/L	0.0099	0.33%
Mo 202.031†	62.1	0.00327	mg/L	0.000191	0.00653	mg/L	0.000382	5.85%
Na 589.592†	23573.0	1.878	mg/L	0.0053	3.755	mg/L	0.0106	0.28%
Na 330.237†	54.1	3.955	mg/L	0.0237	7.911	mg/L	0.0475	0.60%
Ni 231.604†	867.1	0.2380	mg/L	0.00174	0.4760	mg/L	0.00347	0.73%
Pb 220.353†	2222.9	0.2774	mg/L	0.00260	0.5547	mg/L	0.00521	0.94%
Sb 206.836†	-4.6	0.00593	mg/L	0.001187	0.01185	mg/L	0.002374	20.03%
Se 196.026†	37.0	0.02162	mg/L	0.010453	0.04323	mg/L	0.020907	48.36%
Si 288.158†	7763.7	4.689	mg/L	0.0276	9.379	mg/L	0.0551	0.59%
Sn 189.927†	-63.6	-0.00164	mg/L	0.000212	-0.00329	mg/L	0.000423	12.88%
Sr 421.552†	139428.3	0.1611	mg/L	0.00017	0.3223	mg/L	0.00035	0.11%
Ti 334.903†	192755.9	6.178	mg/L	0.0156	12.36	mg/L	0.031	0.25%
Tl 190.801†	-14.0	0.00692	mg/L	0.001347	0.01383	mg/L	0.002695	19.48%
V 292.402†	45146.7	0.2822	mg/L	0.00452	0.5644	mg/L	0.00903	1.60%
Zn 206.200†	1086.8	0.2722	mg/L	0.00274	0.5445	mg/L	0.00547	1.00%

Sequence No.: 61
Sample ID: SS83 D SWC

Autosampler Location: 349
Date Collected: 4/27/2011 12:58:19 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 D SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 D SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2467580.9	110.6	%	0.24				0.22%
ScR 361.383	456151.5	114.6	%	0.19				0.17%
Ag 328.068†	147.9	0.00061	mg/L	0.000377	0.00121	mg/L	0.000754	62.14%
Al 308.215†	127509.1	91.36	mg/L	0.296	182.7	mg/L	0.59	0.32%
As 188.979†	61.9	0.08942	mg/L	0.000860	0.1788	mg/L	0.00172	0.96%
B 249.677†	56.9	0.01012	mg/L	0.000627	0.02024	mg/L	0.001254	6.20%
Ba 233.527†	2840.8	0.3870	mg/L	0.00207	0.7739	mg/L	0.00415	0.54%
Be 313.042†	1113.6	0.00110	mg/L	0.000026	0.00219	mg/L	0.000051	2.34%
Ca 317.933†	375573.9	32.31	mg/L	0.094	64.62	mg/L	0.189	0.29%
Cd 228.802†	42.3	0.00152	mg/L	0.000141	0.00303	mg/L	0.000283	9.32%
Co 228.616†	1854.1	0.04886	mg/L	0.000261	0.09773	mg/L	0.000522	0.53%
Cr 267.716†	1786.2	0.2262	mg/L	0.00211	0.4525	mg/L	0.00421	0.93%
Cu 324.752†	41498.0	0.1833	mg/L	0.00119	0.3666	mg/L	0.00239	0.65%
Fe 273.955†	158122.7	123.6	mg/L	0.49	247.2	mg/L	0.98	0.40%
K 766.490†	7959.9	4.328	mg/L	0.0276	8.656	mg/L	0.0552	0.64%
Mg 279.077†	48673.6	38.67	mg/L	0.128	77.35	mg/L	0.256	0.33%
Mn 257.610†	69408.9	1.472	mg/L	0.0058	2.944	mg/L	0.0115	0.39%
Mo 202.031†	119.4	0.00685	mg/L	0.000086	0.01370	mg/L	0.000172	1.26%
Na 589.592†	20972.2	1.671	mg/L	0.0048	3.341	mg/L	0.0095	0.28%
Na 330.237†	43.9	3.534	mg/L	0.1013	7.067	mg/L	0.2026	2.87%
Ni 231.604†	952.7	0.2615	mg/L	0.00212	0.5230	mg/L	0.00424	0.81%
Pb 220.353†	1279.3	0.1648	mg/L	0.00068	0.3295	mg/L	0.00135	0.41%
Sb 206.836†	-6.9	0.00511	mg/L	0.002874	0.01023	mg/L	0.005749	56.21%
Se 196.026†	30.9	0.01698	mg/L	0.001967	0.03396	mg/L	0.003934	11.58%
Si 288.158†	11055.0	6.675	mg/L	0.0376	13.35	mg/L	0.075	0.56%
Sn 189.927†	-64.0	-0.00188	mg/L	0.000879	-0.00377	mg/L	0.001758	46.65%
Sr 421.552†	143104.5	0.1654	mg/L	0.00057	0.3308	mg/L	0.00115	0.35%
Ti 334.903†	187250.4	6.001	mg/L	0.0221	12.00	mg/L	0.044	0.37%
Tl 190.801†	-12.9	0.00822	mg/L	0.007982	0.01643	mg/L	0.015965	97.15%
V 292.402†	49252.9	0.3085	mg/L	0.00126	0.6171	mg/L	0.00251	0.41%
Zn 206.200†	1029.8	0.2579	mg/L	0.00144	0.5159	mg/L	0.00289	0.56%

Sequence No.: 62
Sample ID: SS83 ODUP SWC
Autosampler Location: 350
Date Collected: 4/27/2011 1:02:17 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 ODUP SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 ODUP SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2522834.2	113.1	%	0.40				0.36%
ScR 361.383	461181.4	115.9	%	0.76				0.66%
Ag 328.068†	59.1	0.00005	mg/L	0.000098	0.00010	mg/L	0.000195	192.60%
Al 308.215†	217600.7	155.9	mg/L	0.59	311.8	mg/L	1.18	0.38%
As 188.979†	-1.5	0.05982	mg/L	0.002307	0.1196	mg/L	0.00461	3.86%
B 249.677†	61.8	0.01095	mg/L	0.001671	0.02190	mg/L	0.003342	15.26%
Ba 233.527†	4452.2	0.6075	mg/L	0.00594	1.215	mg/L	0.0119	0.98%
Be 313.042†	1575.1	0.00158	mg/L	0.000046	0.00316	mg/L	0.000092	2.91%
Ca 317.933†	344196.4	29.61	mg/L	0.120	59.22	mg/L	0.240	0.41%
Cd 228.802†	44.8	0.00182	mg/L	0.000199	0.00364	mg/L	0.000397	10.90%
Co 228.616†	2374.2	0.06233	mg/L	0.000569	0.1247	mg/L	0.00114	0.91%
Cr 267.716†	2061.2	0.2624	mg/L	0.00230	0.5249	mg/L	0.00461	0.88%
Cu 324.752†	50511.8	0.2243	mg/L	0.00073	0.4487	mg/L	0.00146	0.33%
Fe 273.955†	228129.4	178.3	mg/L	0.54	356.7	mg/L	1.08	0.30%
K 766.490†	8960.9	4.872	mg/L	0.0117	9.745	mg/L	0.0235	0.24%
Mg 279.077†	62734.3	49.84	mg/L	0.196	99.67	mg/L	0.391	0.39%
Mn 257.610†	95047.5	2.016	mg/L	0.0062	4.031	mg/L	0.0125	0.31%
Mo 202.031†	42.3	0.00209	mg/L	0.000368	0.00417	mg/L	0.000736	17.63%
Na 589.592†	13097.7	1.043	mg/L	0.0024	2.087	mg/L	0.0048	0.23%
Na 330.237†	5.5	2.751	mg/L	0.2204	5.501	mg/L	0.4409	8.01%
Ni 231.604†	1275.4	0.3501	mg/L	0.00378	0.7002	mg/L	0.00755	1.08%
Pb 220.353†	53.9	0.02669	mg/L	0.000707	0.05338	mg/L	0.001413	2.65%
Sb 206.836†	-20.7	0.00228	mg/L	0.001693	0.00456	mg/L	0.003385	74.23%
Se 196.026†	36.6	0.02100	mg/L	0.000849	0.04201	mg/L	0.001698	4.04%
Si 288.158†	7319.7	4.423	mg/L	0.0357	8.845	mg/L	0.0713	0.81%
Sn 189.927†	-66.6	-0.00247	mg/L	0.000527	-0.00495	mg/L	0.001053	21.29%
Sr 421.552†	92988.7	0.1075	mg/L	0.00045	0.2149	mg/L	0.00089	0.41%
Ti 334.903†	243914.8	7.819	mg/L	0.0303	15.64	mg/L	0.061	0.39%
Tl 190.801†	-30.6	0.00466	mg/L	0.004227	0.00933	mg/L	0.008453	90.63%
V 292.402†	61958.5	0.3860	mg/L	0.00181	0.7720	mg/L	0.00361	0.47%
Zn 206.200†	1346.4	0.3372	mg/L	0.00317	0.6745	mg/L	0.00634	0.94%

Sequence No.: 63
Sample ID: SS83 O SWC

Autosampler Location: 351
Date Collected: 4/27/2011 1:06:15 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 O SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 O SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2505630.1	112.3	%	0.79				0.70%
ScR 361.383	451264.0	113.4	%	0.55				0.49%
Ag 328.068†	62.2	0.00005	mg/L	0.000155	0.00010	mg/L	0.000311	319.79%
Al 308.215†	219402.8	157.2	mg/L	0.62	314.4	mg/L	1.24	0.39%
As 188.979†	-18.1	0.05831	mg/L	0.000829	0.1166	mg/L	0.00166	1.42%
B 249.677†	64.1	0.01136	mg/L	0.000317	0.02273	mg/L	0.000634	2.79%
Ba 233.527†	4332.0	0.5908	mg/L	0.00141	1.182	mg/L	0.0028	0.24%
Be 313.042†	1527.5	0.00152	mg/L	0.000009	0.00304	mg/L	0.000018	0.60%
Ca 317.933†	385738.9	33.18	mg/L	0.101	66.36	mg/L	0.201	0.30%
Cd 228.802†	49.0	0.00203	mg/L	0.000160	0.00406	mg/L	0.000320	7.87%
Co 228.616†	2519.2	0.06483	mg/L	0.000336	0.1297	mg/L	0.00067	0.52%
Cr 267.716†	2209.9	0.2811	mg/L	0.00102	0.5622	mg/L	0.00203	0.36%
Cu 324.752†	57852.6	0.2556	mg/L	0.00323	0.5113	mg/L	0.00646	1.26%
Fe 273.955†	227948.7	178.2	mg/L	0.58	356.4	mg/L	1.17	0.33%
K 766.490†	8329.8	4.529	mg/L	0.0341	9.058	mg/L	0.0681	0.75%
Mg 279.077†	60625.7	48.16	mg/L	0.128	96.32	mg/L	0.256	0.27%
Mn 257.610†	100639.1	2.134	mg/L	0.0066	4.269	mg/L	0.0131	0.31%
Mo 202.031†	49.0	0.00244	mg/L	0.000353	0.00488	mg/L	0.000707	14.47%
Na 589.592†	13734.5	1.094	mg/L	0.0024	2.188	mg/L	0.0047	0.22%
Na 330.237†	-6.4	2.757	mg/L	0.1166	5.514	mg/L	0.2331	4.23%
Ni 231.604†	1382.3	0.3794	mg/L	0.00202	0.7589	mg/L	0.00404	0.53%
Pb 220.353†	59.0	0.02756	mg/L	0.000741	0.05512	mg/L	0.001481	2.69%
Sb 206.836†	-17.2	0.00549	mg/L	0.002701	0.01098	mg/L	0.005401	49.17%
Se 196.026†	33.7	0.01824	mg/L	0.006447	0.03648	mg/L	0.012895	35.34%
Si 288.158†	8308.2	5.019	mg/L	0.0070	10.04	mg/L	0.014	0.14%
Sn 189.927†	-72.9	-0.00230	mg/L	0.000717	-0.00460	mg/L	0.001435	31.21%
Sr 421.552†	94862.1	0.1096	mg/L	0.00036	0.2193	mg/L	0.00072	0.33%
Ti 334.903†	284065.5	9.107	mg/L	0.0216	18.21	mg/L	0.043	0.24%
Tl 190.801†	-23.0	0.00924	mg/L	0.002944	0.01848	mg/L	0.005888	31.85%
V 292.402†	63274.5	0.3939	mg/L	0.00524	0.7878	mg/L	0.01049	1.33%
Zn 206.200†	1388.2	0.3477	mg/L	0.00124	0.6954	mg/L	0.00248	0.36%

Sequence No.: 64
Sample ID: SS83 OSPK SWC

Autosampler Location: 352
Date Collected: 4/27/2011 1:10:13 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 OSPK SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 OSPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2489422.9	111.6	%	0.82				0.73%
ScR 361.383	448939.8	112.8	%	0.79				0.70%
Ag 328.068†	91192.8	0.4914	mg/L	0.00082	0.9827	mg/L	0.00163	0.17%
Al 308.215†	211326.5	151.4	mg/L	0.82	302.8	mg/L	1.63	0.54%
As 188.979†	2784.4	2.007	mg/L	0.0167	4.015	mg/L	0.0334	0.83%
B 249.677†	57.0	0.00899	mg/L	0.001465	0.01797	mg/L	0.002929	16.30%
Ba 233.527†	18311.0	2.536	mg/L	0.0209	5.072	mg/L	0.0418	0.82%
Be 313.042†	440776.5	0.5018	mg/L	0.00443	1.004	mg/L	0.0089	0.88%
Ca 317.933†	450406.9	38.74	mg/L	0.093	77.49	mg/L	0.187	0.24%
Cd 228.802†	14019.4	0.4972	mg/L	0.00557	0.9945	mg/L	0.01115	1.12%
Co 228.616†	16921.2	0.5249	mg/L	0.00535	1.050	mg/L	0.0107	1.02%
Cr 267.716†	5739.5	0.7224	mg/L	0.00806	1.445	mg/L	0.0161	1.12%
Cu 324.752†	163767.9	0.7131	mg/L	0.00126	1.426	mg/L	0.0025	0.18%
Fe 273.955†	213830.4	167.2	mg/L	1.09	334.3	mg/L	2.19	0.65%
K 766.490†	25932.5	14.10	mg/L	0.089	28.20	mg/L	0.179	0.63%
Mg 279.077†	68188.6	54.18	mg/L	0.204	108.4	mg/L	0.41	0.38%
Mn 257.610†	117963.0	2.502	mg/L	0.0144	5.004	mg/L	0.0287	0.57%
Mo 202.031†	61.7	0.00313	mg/L	0.000432	0.00626	mg/L	0.000863	13.79%
Na 589.592†	140253.8	11.17	mg/L	0.053	22.34	mg/L	0.106	0.47%
Na 330.237†	314.1	13.15	mg/L	0.250	26.30	mg/L	0.500	1.90%
Ni 231.604†	3019.5	0.8288	mg/L	0.00908	1.658	mg/L	0.0182	1.10%
Pb 220.353†	16012.3	1.948	mg/L	0.0162	3.895	mg/L	0.0324	0.83%
Sb 206.836†	-10.8	0.00086	mg/L	0.001361	0.00172	mg/L	0.002722	158.64%
Se 196.026†	2481.5	2.011	mg/L	0.0215	4.021	mg/L	0.0431	1.07%
Si 288.158†	7445.8	4.501	mg/L	0.0433	9.002	mg/L	0.0867	0.96%
Sn 189.927†	-72.7	-0.00179	mg/L	0.000114	-0.00359	mg/L	0.000229	6.38%
Sr 421.552†	524895.0	0.6066	mg/L	0.00315	1.213	mg/L	0.0063	0.52%
Ti 334.903†	194885.9	6.245	mg/L	0.0341	12.49	mg/L	0.068	0.55%
Tl 190.801†	3101.6	1.893	mg/L	0.0180	3.786	mg/L	0.0360	0.95%
V 292.402†	128055.2	0.8211	mg/L	0.00342	1.642	mg/L	0.0068	0.42%
Zn 206.200†	3246.3	0.8133	mg/L	0.00652	1.627	mg/L	0.0130	0.80%

Sequence No.: 65
Sample ID: SS83 MB1SPK SWC

Autosampler Location: 353
Date Collected: 4/27/2011 1:13:12 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 MB1SPK SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SS83 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2505187.1	112.3	%	1.29				1.15%
ScR 361.383	450507.1	113.2	%	0.23				0.20%
Ag 328.068†	98315.7	0.5300	mg/L	0.00551	1.060	mg/L	0.0110	1.04%
Al 308.215†	2862.0	2.041	mg/L	0.0095	4.082	mg/L	0.0191	0.47%
As 188.979†	2934.1	2.065	mg/L	0.0214	4.129	mg/L	0.0429	1.04%
B 249.677†	-0.6	-0.00128	mg/L	0.000512	-0.00256	mg/L	0.001025	40.06%
Ba 233.527†	14445.1	2.009	mg/L	0.0120	4.018	mg/L	0.0240	0.60%
Be 313.042†	441837.9	0.5032	mg/L	0.00408	1.006	mg/L	0.0082	0.81%
Ca 317.933†	112712.1	9.696	mg/L	0.0613	19.39	mg/L	0.123	0.63%
Cd 228.802†	14173.0	0.5022	mg/L	0.00363	1.004	mg/L	0.0073	0.72%
Co 228.616†	15557.2	0.4920	mg/L	0.00423	0.9840	mg/L	0.00847	0.86%
Cr 267.716†	3982.6	0.4983	mg/L	0.00441	0.9966	mg/L	0.00882	0.89%
Cu 324.752†	114623.8	0.4948	mg/L	0.00299	0.9897	mg/L	0.00598	0.60%
Fe 273.955†	2638.6	2.060	mg/L	0.0097	4.120	mg/L	0.0195	0.47%
K 766.490†	18495.4	10.06	mg/L	0.032	20.11	mg/L	0.064	0.32%
Mg 279.077†	12859.8	10.23	mg/L	0.053	20.47	mg/L	0.106	0.52%
Mn 257.610†	23282.9	0.4942	mg/L	0.00286	0.9884	mg/L	0.00571	0.58%
Mo 202.031†	21.3	0.00115	mg/L	0.000034	0.00229	mg/L	0.000067	2.93%
Na 589.592†	125656.8	10.01	mg/L	0.050	20.02	mg/L	0.100	0.50%
Na 330.237†	316.0	11.18	mg/L	0.028	22.37	mg/L	0.055	0.25%
Ni 231.604†	1855.8	0.5094	mg/L	0.00341	1.019	mg/L	0.0068	0.67%
Pb 220.353†	16666.6	2.007	mg/L	0.0148	4.013	mg/L	0.0296	0.74%
Sb 206.836†	6.4	-0.00065	mg/L	0.002383	-0.00131	mg/L	0.004766	364.62%
Se 196.026†	2637.1	2.146	mg/L	0.0198	4.291	mg/L	0.0395	0.92%
Si 288.158†	-0.2	0.00301	mg/L	0.001512	0.00603	mg/L	0.003024	50.17%
Sn 189.927†	-22.2	-0.00179	mg/L	0.000569	-0.00358	mg/L	0.001137	31.80%
Sr 421.552†	437640.9	0.5058	mg/L	0.00329	1.012	mg/L	0.0066	0.65%
Ti 334.903†	41.8	-0.00042	mg/L	0.000222	-0.00084	mg/L	0.000444	52.79%
Tl 190.801†	3388.5	2.045	mg/L	0.0234	4.089	mg/L	0.0468	1.14%
V 292.402†	76062.1	0.4982	mg/L	0.00298	0.9963	mg/L	0.00597	0.60%
Zn 206.200†	2008.7	0.5033	mg/L	0.00192	1.007	mg/L	0.0038	0.38%

Sequence No.: 66
Sample ID: CV (c

Autosampler Location: 7
Date Collected: 4/27/2011 1:17:10 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2438671.0	109.3	%	0.88				0.81%
ScR 361.383	431940.5	108.5	%	0.73				0.67%
Ag 328.068†	187936.5	1.013	mg/L	0.0106	1.013	mg/L	0.0106	1.04%
Al 308.215†	2818.4	1.987	mg/L	0.0192	1.987	mg/L	0.0192	0.97%
As 188.979†	2790.1	1.970	mg/L	0.0263	1.970	mg/L	0.0263	1.34%
B 249.677†	5587.4	1.005	mg/L	0.0091	1.005	mg/L	0.0091	0.90%
Ba 233.527†	7087.8	0.9854	mg/L	0.00690	0.9854	mg/L	0.00690	0.70%
Be 313.042†	889144.0	1.013	mg/L	0.0066	1.013	mg/L	0.0066	0.65%
Ca 317.933†	23370.3	2.010	mg/L	0.0200	2.010	mg/L	0.0200	1.00%
Cd 228.802†	28124.4	1.004	mg/L	0.0052	1.004	mg/L	0.0052	0.51%
Co 228.616†	30276.7	0.9569	mg/L	0.00455	0.9569	mg/L	0.00455	0.48%
Cr 267.716†	7894.4	0.9889	mg/L	0.00834	0.9889	mg/L	0.00834	0.84%
Cu 324.752†	228397.5	0.9855	mg/L	0.00242	0.9855	mg/L	0.00242	0.25%
Fe 273.955†	2590.7	2.020	mg/L	0.0117	2.020	mg/L	0.0117	0.58%
K 766.490†	36808.8	20.01	mg/L	0.021	20.01	mg/L	0.021	0.10%
Mg 279.077†	2465.6	1.966	mg/L	0.0191	1.966	mg/L	0.0191	0.97%
Mn 257.610†	46423.0	0.9849	mg/L	0.00730	0.9849	mg/L	0.00730	0.74%
Mo 202.031†	15389.7	0.9601	mg/L	0.01086	0.9601	mg/L	0.01086	1.13%
Na 589.592†	635982.7	50.66	mg/L	0.089	50.66	mg/L	0.089	0.18%
Na 330.237†	1434.0	51.42	mg/L	0.180	51.42	mg/L	0.180	0.35%
Ni 231.604†	3762.0	1.034	mg/L	0.0131	1.034	mg/L	0.0131	1.26%
Pb 220.353†	15983.4	1.925	mg/L	0.0165	1.925	mg/L	0.0165	0.86%
Sb 206.836†	4889.0	1.964	mg/L	0.0201	1.964	mg/L	0.0201	1.02%
Se 196.026†	2445.6	1.992	mg/L	0.0197	1.992	mg/L	0.0197	0.99%
Si 288.158†	3360.0	2.033	mg/L	0.0210	2.033	mg/L	0.0210	1.03%
Sn 189.927†	4862.4	0.9554	mg/L	0.01043	0.9554	mg/L	0.01043	1.09%
Sr 421.552†	884863.7	1.023	mg/L	0.0021	1.023	mg/L	0.0021	0.21%
Ti 334.903†	29832.3	0.9553	mg/L	0.00199	0.9553	mg/L	0.00199	0.21%
Tl 190.801†	3239.4	1.956	mg/L	0.0202	1.956	mg/L	0.0202	1.03%
V 292.402†	148061.3	0.9703	mg/L	0.00396	0.9703	mg/L	0.00396	0.41%
Zn 206.200†	3985.4	0.9981	mg/L	0.01008	0.9981	mg/L	0.01008	1.01%

Sequence No.: 67
Sample ID: CB

Autosampler Location: 1
Date Collected: 4/27/2011 1:20:24 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2452097.0	109.9	%	0.12				0.11%
ScR 361.383	435296.9	109.4	%	1.63				1.49%
Ag 328.068†	132.5	0.00071	mg/L	0.000112	0.00071	mg/L	0.000112	15.72%
Al 308.215†	28.5	0.02045	mg/L	0.009304	0.02045	mg/L	0.009304	45.50%
As 188.979†	1.9	0.00132	mg/L	0.001818	0.00132	mg/L	0.001818	138.20%
B 249.677†	3.6	0.00065	mg/L	0.001224	0.00065	mg/L	0.001224	187.63%
Ba 233.527†	0.6	0.00008	mg/L	0.000449	0.00008	mg/L	0.000449	555.03%
Be 313.042†	42.9	0.00005	mg/L	0.000006	0.00005	mg/L	0.000006	12.83%
Ca 317.933†	68.3	0.00587	mg/L	0.000328	0.00587	mg/L	0.000328	5.59%
Cd 228.802†	-6.8	-0.00025	mg/L	0.000110	-0.00025	mg/L	0.000110	44.03%
Co 228.616†	16.6	0.00053	mg/L	0.000152	0.00053	mg/L	0.000152	29.00%
Cr 267.716†	1.8	0.00022	mg/L	0.000377	0.00022	mg/L	0.000377	170.03%
Cu 324.752†	-62.4	-0.00027	mg/L	0.000098	-0.00027	mg/L	0.000098	36.67%
Fe 273.955†	16.4	0.01281	mg/L	0.002531	0.01281	mg/L	0.002531	19.76%
K 766.490†	94.5	0.05140	mg/L	0.006199	0.05140	mg/L	0.006199	12.06%
Mg 279.077†	20.5	0.01632	mg/L	0.001915	0.01632	mg/L	0.001915	11.73%
Mn 257.610†	0.2	0.00000	mg/L	0.000077	0.00000	mg/L	0.000077	>999.9%
Mo 202.031†	-7.2	-0.00045	mg/L	0.000140	-0.00045	mg/L	0.000140	31.06%
Na 589.592†	-296.8	-0.02364	mg/L	0.001810	-0.02364	mg/L	0.001810	7.65%
Na 330.237†	27.6	0.9876	mg/L	0.29652	0.9876	mg/L	0.29652	30.02%
Ni 231.604†	7.3	0.00202	mg/L	0.000449	0.00202	mg/L	0.000449	22.24%
Pb 220.353†	16.0	0.00193	mg/L	0.000130	0.00193	mg/L	0.000130	6.72%
Sb 206.836†	-0.3	-0.00011	mg/L	0.001507	-0.00011	mg/L	0.001507	>999.9%
Se 196.026†	11.6	0.00945	mg/L	0.003079	0.00945	mg/L	0.003079	32.59%
Si 288.158†	1.7	0.00102	mg/L	0.002659	0.00102	mg/L	0.002659	261.37%
Sn 189.927†	5.8	0.00113	mg/L	0.000097	0.00113	mg/L	0.000097	8.60%
Sr 421.552†	157.3	0.00018	mg/L	0.000045	0.00018	mg/L	0.000045	24.76%
Ti 334.903†	-30.4	-0.00098	mg/L	0.000115	-0.00098	mg/L	0.000115	11.80%
Tl 190.801†	2.2	0.00131	mg/L	0.000973	0.00131	mg/L	0.000973	74.55%
V 292.402†	37.5	0.00024	mg/L	0.000147	0.00024	mg/L	0.000147	60.07%
Zn 206.200†	0.5	0.00013	mg/L	0.000333	0.00013	mg/L	0.000333	265.04%

Sequence No.: 68
Sample ID: SS83 E SWC

Autosampler Location: 301
Date Collected: 4/27/2011 1:24:34 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 E SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 E SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2529035.2	113.3	%	1.26				1.11%
ScR 361.383	454766.3	114.3	%	1.84				1.61%
Ag 328.068†	137.0	0.00041	mg/L	0.000306	0.00081	mg/L	0.000612	75.20%
Al 308.215†	158043.3	113.2	mg/L	0.46	226.5	mg/L	0.92	0.40%
As 188.979†	-10.6	0.04582	mg/L	0.002357	0.09165	mg/L	0.004714	5.14%
B 249.677†	58.1	0.01029	mg/L	0.000596	0.02059	mg/L	0.001191	5.79%
Ba 233.527†	3366.2	0.4590	mg/L	0.00848	0.9181	mg/L	0.01696	1.85%
Be 313.042†	1595.8	0.00164	mg/L	0.000064	0.00329	mg/L	0.000129	3.92%
Ca 317.933†	345879.0	29.75	mg/L	0.138	59.51	mg/L	0.276	0.46%
Cd 228.802†	37.2	0.00156	mg/L	0.000072	0.00313	mg/L	0.000144	4.61%
Co 228.616†	2376.7	0.06395	mg/L	0.000811	0.1279	mg/L	0.00162	1.27%
Cr 267.716†	1801.3	0.2285	mg/L	0.00316	0.4570	mg/L	0.00633	1.38%
Cu 324.752†	21181.0	0.09611	mg/L	0.001252	0.1922	mg/L	0.00250	1.30%
Fe 273.955†	177887.7	139.1	mg/L	0.74	278.1	mg/L	1.47	0.53%
K 766.490†	8362.8	4.547	mg/L	0.0282	9.094	mg/L	0.0564	0.62%
Mg 279.077†	54982.0	43.69	mg/L	0.184	87.37	mg/L	0.368	0.42%
Mn 257.610†	107440.1	2.278	mg/L	0.0118	4.557	mg/L	0.0236	0.52%
Mo 202.031†	47.3	0.00240	mg/L	0.000190	0.00479	mg/L	0.000379	7.91%
Na 589.592†	14602.2	1.163	mg/L	0.0117	2.326	mg/L	0.0234	1.01%
Na 330.237†	21.8	3.025	mg/L	0.3942	6.050	mg/L	0.7884	13.03%
Ni 231.604†	1227.3	0.3369	mg/L	0.00513	0.6738	mg/L	0.01026	1.52%
Pb 220.353†	10.6	0.01554	mg/L	0.000987	0.03107	mg/L	0.001974	6.35%
Sb 206.836†	-9.9	0.00527	mg/L	0.000881	0.01054	mg/L	0.001762	16.71%
Se 196.026†	43.5	0.02718	mg/L	0.003066	0.05436	mg/L	0.006133	11.28%
Si 288.158†	9019.9	5.448	mg/L	0.0916	10.90	mg/L	0.183	1.68%
Sn 189.927†	-66.5	-0.00273	mg/L	0.000216	-0.00547	mg/L	0.000431	7.89%
Sr 421.552†	132487.9	0.1531	mg/L	0.00065	0.3062	mg/L	0.00131	0.43%
Ti 334.903†	214723.8	6.883	mg/L	0.0301	13.77	mg/L	0.060	0.44%
Tl 190.801†	-21.5	0.00500	mg/L	0.004161	0.01000	mg/L	0.008323	83.25%
V 292.402†	49986.4	0.3116	mg/L	0.00459	0.6233	mg/L	0.00919	1.47%
Zn 206.200†	1266.4	0.3172	mg/L	0.00507	0.6344	mg/L	0.01013	1.60%

Sequence No.: 69
Sample ID: SS83 F SWC

Autosampler Location: 302
Date Collected: 4/27/2011 1:28:33 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 F SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SS83 F SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2496581.5	111.9	%	0.89				0.79%
ScR 361.383	460505.7	115.7	%	0.66				0.57%
Ag 328.068†	55.4	0.00005	mg/L	0.000109	0.00010	mg/L	0.000218	219.44%
Al 308.215†	187981.1	134.7	mg/L	0.77	269.4	mg/L	1.54	0.57%
As 188.979†	-1.5	0.05361	mg/L	0.001808	0.1072	mg/L	0.00362	3.37%
B 249.677†	36.2	0.00633	mg/L	0.000203	0.01267	mg/L	0.000407	3.21%
Ba 233.527†	4112.2	0.5617	mg/L	0.00616	1.123	mg/L	0.0123	1.10%
Be 313.042†	2097.4	0.00218	mg/L	0.000052	0.00435	mg/L	0.000105	2.41%
Ca 317.933†	397719.1	34.21	mg/L	0.160	68.43	mg/L	0.319	0.47%
Cd 228.802†	38.9	0.00160	mg/L	0.000070	0.00319	mg/L	0.000141	4.41%
Co 228.616†	2472.5	0.06659	mg/L	0.000353	0.1332	mg/L	0.00071	0.53%
Cr 267.716†	2417.6	0.3067	mg/L	0.00307	0.6134	mg/L	0.00614	1.00%
Cu 324.752†	30878.7	0.1387	mg/L	0.00102	0.2775	mg/L	0.00204	0.73%
Fe 273.955†	198847.9	155.5	mg/L	0.61	310.9	mg/L	1.21	0.39%
K 766.490†	8819.9	4.796	mg/L	0.0375	9.591	mg/L	0.0751	0.78%
Mg 279.077†	49826.8	39.58	mg/L	0.068	79.15	mg/L	0.135	0.17%
Mn 257.610†	89735.2	1.903	mg/L	0.0050	3.806	mg/L	0.0100	0.26%
Mo 202.031†	45.1	0.00218	mg/L	0.000245	0.00435	mg/L	0.000490	11.26%
Na 589.592†	22045.4	1.756	mg/L	0.0275	3.512	mg/L	0.0550	1.56%
Na 330.237†	36.6	3.636	mg/L	0.2088	7.273	mg/L	0.4176	5.74%
Ni 231.604†	1191.0	0.3269	mg/L	0.00316	0.6538	mg/L	0.00632	0.97%
Pb 220.353†	371.0	0.06225	mg/L	0.000972	0.1245	mg/L	0.00194	1.56%
Sb 206.836†	-7.7	0.00594	mg/L	0.001385	0.01188	mg/L	0.002770	23.32%
Se 196.026†	35.9	0.02067	mg/L	0.002285	0.04134	mg/L	0.004570	11.05%
Si 288.158†	6235.1	3.767	mg/L	0.0341	7.534	mg/L	0.0682	0.91%
Sn 189.927†	-66.4	-0.00145	mg/L	0.000620	-0.00290	mg/L	0.001240	42.75%
Sr 421.552†	209179.1	0.2418	mg/L	0.00048	0.4835	mg/L	0.00095	0.20%
Ti 334.903†	221861.1	7.111	mg/L	0.0174	14.22	mg/L	0.035	0.24%
Tl 190.801†	-24.9	0.00502	mg/L	0.007250	0.01004	mg/L	0.014499	144.41%
V 292.402†	61016.7	0.3824	mg/L	0.00393	0.7647	mg/L	0.00786	1.03%
Zn 206.200†	1174.3	0.2941	mg/L	0.00264	0.5883	mg/L	0.00528	0.90%

Sequence No.: 70
Sample ID: SS83 G SWC

Autosampler Location: 303
Date Collected: 4/27/2011 1:32:32 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 G SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 G SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2535319.5	113.6	%	0.55				0.48%
ScR 361.383	463193.5	116.4	%	0.25				0.22%
Ag 328.068†	160.2	0.00046	mg/L	0.000033	0.00092	mg/L	0.000067	7.22%
Al 308.215†	205799.7	147.5	mg/L	0.30	294.9	mg/L	0.61	0.21%
As 188.979†	14.3	0.06692	mg/L	0.001796	0.1338	mg/L	0.00359	2.68%
B 249.677†	48.8	0.00858	mg/L	0.000303	0.01717	mg/L	0.000607	3.53%
Ba 233.527†	5016.2	0.6877	mg/L	0.00122	1.375	mg/L	0.0024	0.18%
Be 313.042†	2037.0	0.00211	mg/L	0.000014	0.00421	mg/L	0.000028	0.66%
Ca 317.933†	384494.8	33.08	mg/L	0.102	66.15	mg/L	0.203	0.31%
Cd 228.802†	42.9	0.00170	mg/L	0.000085	0.00340	mg/L	0.000171	5.02%
Co 228.616†	2720.8	0.07403	mg/L	0.000444	0.1481	mg/L	0.00089	0.60%
Cr 267.716†	2078.6	0.2637	mg/L	0.00107	0.5275	mg/L	0.00213	0.40%
Cu 324.752†	36892.3	0.1644	mg/L	0.00142	0.3289	mg/L	0.00285	0.87%
Fe 273.955†	194935.4	152.4	mg/L	0.27	304.8	mg/L	0.53	0.18%
K 766.490†	11541.9	6.276	mg/L	0.0219	12.55	mg/L	0.044	0.35%
Mg 279.077†	56472.4	44.87	mg/L	0.021	89.73	mg/L	0.041	0.05%
Mn 257.610†	130499.4	2.767	mg/L	0.0077	5.535	mg/L	0.0154	0.28%
Mo 202.031†	56.4	0.00291	mg/L	0.000246	0.00581	mg/L	0.000492	8.46%
Na 589.592†	20005.8	1.594	mg/L	0.0072	3.187	mg/L	0.0145	0.45%
Na 330.237†	32.6	3.565	mg/L	0.1862	7.129	mg/L	0.3724	5.22%
Ni 231.604†	1212.9	0.3329	mg/L	0.00194	0.6659	mg/L	0.00387	0.58%
Pb 220.353†	473.4	0.07713	mg/L	0.000766	0.1543	mg/L	0.00153	0.99%
Sb 206.836†	-21.4	0.00124	mg/L	0.003905	0.00249	mg/L	0.007809	313.68%
Se 196.026†	32.2	0.01737	mg/L	0.003108	0.03474	mg/L	0.006215	17.89%
Si 288.158†	6790.9	4.103	mg/L	0.0145	8.206	mg/L	0.0289	0.35%
Sn 189.927†	-65.2	-0.00143	mg/L	0.001397	-0.00286	mg/L	0.002794	97.80%
Sr 421.552†	206460.1	0.2386	mg/L	0.00034	0.4772	mg/L	0.00067	0.14%
Ti 334.903†	229548.3	7.358	mg/L	0.0073	14.72	mg/L	0.015	0.10%
Tl 190.801†	-32.9	-0.00022	mg/L	0.002626	-0.00043	mg/L	0.005252	>999.9%
V 292.402†	61158.6	0.3833	mg/L	0.00456	0.7667	mg/L	0.00911	1.19%
Zn 206.200†	1373.6	0.3441	mg/L	0.00048	0.6881	mg/L	0.00096	0.14%

Sequence No.: 71
Sample ID: SS83 H SWC

Autosampler Location: 304
Date Collected: 4/27/2011 1:36:30 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 H SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SS83 H SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2496760.9	111.9	%	0.21				0.19%
ScR 361.383	451360.6	113.4	%	0.30				0.27%
Ag 328.068†	179.2	0.00097	mg/L	0.000164	0.00194	mg/L	0.000328	16.87%
Al 308.215†	49809.9	35.68	mg/L	0.011	71.37	mg/L	0.022	0.03%
As 188.979†	253.5	0.1969	mg/L	0.00173	0.3937	mg/L	0.00345	0.88%
B 249.677†	44.4	0.00796	mg/L	0.000365	0.01593	mg/L	0.000730	4.58%
Ba 233.527†	1791.7	0.2435	mg/L	0.00167	0.4870	mg/L	0.00334	0.69%
Be 313.042†	355.2	0.00025	mg/L	0.000015	0.00049	mg/L	0.000029	5.92%
Ca 317.933†	101569.5	8.737	mg/L	0.0314	17.47	mg/L	0.063	0.36%
Cd 228.802†	37.9	0.00078	mg/L	0.000169	0.00156	mg/L	0.000339	21.64%
Co 228.616†	617.0	0.01563	mg/L	0.000088	0.03126	mg/L	0.000176	0.56%
Cr 267.716†	1046.5	0.1341	mg/L	0.00156	0.2683	mg/L	0.00311	1.16%
Cu 324.752†	79997.3	0.3487	mg/L	0.00112	0.6975	mg/L	0.00225	0.32%
Fe 273.955†	109613.5	85.69	mg/L	0.185	171.4	mg/L	0.37	0.22%
K 766.490†	4007.0	2.179	mg/L	0.0145	4.357	mg/L	0.0290	0.67%
Mg 279.077†	12524.1	9.926	mg/L	0.0306	19.85	mg/L	0.061	0.31%
Mn 257.610†	15475.2	0.3287	mg/L	0.00090	0.6574	mg/L	0.00180	0.27%
Mo 202.031†	397.7	0.02465	mg/L	0.000254	0.04929	mg/L	0.000508	1.03%
Na 589.592†	10340.5	0.8237	mg/L	0.00310	1.647	mg/L	0.0062	0.38%
Na 330.237†	44.5	2.367	mg/L	0.0628	4.734	mg/L	0.1256	2.65%
Ni 231.604†	392.9	0.1079	mg/L	0.00129	0.2157	mg/L	0.00258	1.20%
Pb 220.353†	3459.1	0.4181	mg/L	0.00209	0.8363	mg/L	0.00418	0.50%
Sb 206.836†	0.6	0.00349	mg/L	0.000487	0.00699	mg/L	0.000974	13.94%
Se 196.026†	26.5	0.01943	mg/L	0.000823	0.03887	mg/L	0.001647	4.24%
Si 288.158†	7232.2	4.365	mg/L	0.0218	8.730	mg/L	0.0436	0.50%
Sn 189.927†	-16.6	-0.00010	mg/L	0.000285	-0.00019	mg/L	0.000569	296.87%
Sr 421.552†	73699.0	0.08518	mg/L	0.000055	0.1704	mg/L	0.00011	0.07%
Ti 334.903†	73993.9	2.372	mg/L	0.0039	4.744	mg/L	0.0077	0.16%
Tl 190.801†	-10.2	0.00493	mg/L	0.002171	0.00985	mg/L	0.004342	44.06%
V 292.402†	45093.4	0.2862	mg/L	0.00029	0.5724	mg/L	0.00057	0.10%
Zn 206.200†	430.3	0.1078	mg/L	0.00133	0.2156	mg/L	0.00266	1.24%

Sequence No.: 72
Sample ID: SS83 I SWC

Autosampler Location: 305
Date Collected: 4/27/2011 1:40:27 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 I SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 I SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2479867.4	111.1	%	1.24				1.12%
ScR 361.383	449709.3	113.0	%	0.98				0.87%
Ag 328.068†	87.3	0.00032	mg/L	0.000145	0.00064	mg/L	0.000290	45.37%
Al 308.215†	214934.2	154.0	mg/L	0.81	308.0	mg/L	1.62	0.53%
As 188.979†	-27.7	0.03911	mg/L	0.000493	0.07822	mg/L	0.000985	1.26%
B 249.677†	62.6	0.01112	mg/L	0.001925	0.02224	mg/L	0.003850	17.32%
Ba 233.527†	3642.5	0.4990	mg/L	0.00643	0.9980	mg/L	0.01285	1.29%
Be 313.042†	1497.7	0.00151	mg/L	0.000025	0.00301	mg/L	0.000050	1.65%
Ca 317.933†	221799.7	19.08	mg/L	0.086	38.16	mg/L	0.172	0.45%
Cd 228.802†	27.7	0.00125	mg/L	0.000162	0.00249	mg/L	0.000323	12.97%
Co 228.616†	2080.9	0.05371	mg/L	0.000210	0.1074	mg/L	0.00042	0.39%
Cr 267.716†	2380.3	0.3007	mg/L	0.00354	0.6014	mg/L	0.00709	1.18%
Cu 324.752†	24071.7	0.1072	mg/L	0.00103	0.2145	mg/L	0.00205	0.96%
Fe 273.955†	146922.3	114.9	mg/L	0.67	229.7	mg/L	1.34	0.58%
K 766.490†	7665.7	4.168	mg/L	0.0346	8.336	mg/L	0.0692	0.83%
Mg 279.077†	45022.3	35.77	mg/L	0.173	71.54	mg/L	0.347	0.48%
Mn 257.610†	61972.9	1.314	mg/L	0.0083	2.628	mg/L	0.0165	0.63%
Mo 202.031†	31.5	0.00161	mg/L	0.000694	0.00322	mg/L	0.001388	43.03%
Na 589.592†	13192.5	1.051	mg/L	0.0055	2.102	mg/L	0.0110	0.53%
Na 330.237†	4.6	2.593	mg/L	0.1673	5.185	mg/L	0.3346	6.45%
Ni 231.604†	1112.6	0.3054	mg/L	0.00386	0.6108	mg/L	0.00772	1.26%
Pb 220.353†	-30.5	0.02011	mg/L	0.001009	0.04021	mg/L	0.002018	5.02%
Sb 206.836†	-29.6	-0.00236	mg/L	0.000620	-0.00472	mg/L	0.001239	26.27%
Se 196.026†	26.0	0.01523	mg/L	0.005547	0.03046	mg/L	0.011095	36.42%
Si 288.158†	13056.9	7.882	mg/L	0.1024	15.76	mg/L	0.205	1.30%
Sn 189.927†	-52.5	-0.00264	mg/L	0.000598	-0.00527	mg/L	0.001196	22.68%
Sr 421.552†	142517.9	0.1647	mg/L	0.00103	0.3294	mg/L	0.00206	0.62%
Ti 334.903†	231717.2	7.430	mg/L	0.0494	14.86	mg/L	0.099	0.66%
Tl 190.801†	-7.4	0.01016	mg/L	0.006716	0.02032	mg/L	0.013431	66.10%
V 292.402†	57059.0	0.3596	mg/L	0.00305	0.7192	mg/L	0.00610	0.85%
Zn 206.200†	1259.2	0.3154	mg/L	0.00448	0.6308	mg/L	0.00896	1.42%

Sequence No.: 73
Sample ID: SS83 J SWC

Dilution: 2X

Autosampler Location: 306
Date Collected: 4/27/2011 1:44:25 PM
Data Type: Original

Nebulizer Parameters: SS83 J SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SS83 J SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2471388.7	110.7	%	0.80				0.72%
ScR 361.383	457771.1	115.0	%	0.75				0.65%
Ag 328.068†	136.6	0.00064	mg/L	0.000148	0.00128	mg/L	0.000296	23.12%
Al 308.215†	126997.7	90.99	mg/L	0.172	182.0	mg/L	0.34	0.19%
As 188.979†	333.3	0.2718	mg/L	0.00337	0.5436	mg/L	0.00674	1.24%
B 249.677†	71.5	0.01280	mg/L	0.000541	0.02560	mg/L	0.001081	4.22%
Ba 233.527†	3699.3	0.5058	mg/L	0.00326	1.012	mg/L	0.0065	0.64%
Be 313.042†	984.0	0.00088	mg/L	0.000024	0.00177	mg/L	0.000049	2.76%
Ca 317.933†	188106.2	16.18	mg/L	0.085	32.36	mg/L	0.169	0.52%
Cd 228.802†	67.3	0.00170	mg/L	0.000109	0.00340	mg/L	0.000218	6.41%
Co 228.616†	1398.6	0.03643	mg/L	0.000388	0.07285	mg/L	0.000776	1.07%
Cr 267.716†	1799.0	0.2297	mg/L	0.00089	0.4594	mg/L	0.00179	0.39%
Cu 324.752†	190642.8	0.8277	mg/L	0.00600	1.655	mg/L	0.0120	0.73%
Fe 273.955†	167706.8	131.1	mg/L	0.32	262.2	mg/L	0.64	0.24%
K 766.490†	6716.2	3.652	mg/L	0.0179	7.304	mg/L	0.0358	0.49%
Mg 279.077†	24782.5	19.66	mg/L	0.085	39.32	mg/L	0.169	0.43%
Mn 257.610†	50688.4	1.076	mg/L	0.0038	2.151	mg/L	0.0077	0.36%
Mo 202.031†	544.1	0.03365	mg/L	0.000251	0.06730	mg/L	0.000502	0.75%
Na 589.592†	13974.6	1.113	mg/L	0.0031	2.226	mg/L	0.0062	0.28%
Na 330.237†	32.5	2.714	mg/L	0.1493	5.428	mg/L	0.2985	5.50%
Ni 231.604†	798.0	0.2190	mg/L	0.00188	0.4381	mg/L	0.00375	0.86%
Pb 220.353†	7139.4	0.8689	mg/L	0.00484	1.738	mg/L	0.0097	0.56%
Sb 206.836†	-3.4	0.00510	mg/L	0.001452	0.01020	mg/L	0.002905	28.49%
Se 196.026†	31.9	0.02187	mg/L	0.003117	0.04374	mg/L	0.006233	14.25%
Si 288.158†	9099.4	5.493	mg/L	0.0485	10.99	mg/L	0.097	0.88%
Sn 189.927†	-20.3	0.00198	mg/L	0.000676	0.00396	mg/L	0.001351	34.16%
Sr 421.552†	114465.2	0.1323	mg/L	0.00050	0.2646	mg/L	0.00099	0.38%
Ti 334.903†	148706.5	4.767	mg/L	0.0198	9.535	mg/L	0.0397	0.42%
Tl 190.801†	-15.3	0.00769	mg/L	0.002441	0.01538	mg/L	0.004882	31.74%
V 292.402†	67621.8	0.4284	mg/L	0.00220	0.8568	mg/L	0.00440	0.51%
Zn 206.200†	945.9	0.2370	mg/L	0.00214	0.4740	mg/L	0.00428	0.90%

Sequence No.: 74
Sample ID: SS83 K SWC

Autosampler Location: 307
Date Collected: 4/27/2011 1:48:23 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 K SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SS83 K SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2498189.8	112.0	%	1.04				0.93%
ScR 361.383	456698.0	114.8	%	0.67				0.59%
Ag 328.068†	179.8	0.00087	mg/L	0.000154	0.00174	mg/L	0.000308	17.68%
Al 308.215†	131390.4	94.14	mg/L	0.081	188.3	mg/L	0.16	0.09%
As 188.979†	314.1	0.2582	mg/L	0.00462	0.5164	mg/L	0.00924	1.79%
B 249.677†	72.0	0.01287	mg/L	0.001031	0.02575	mg/L	0.002062	8.01%
Ba 233.527†	3617.5	0.4948	mg/L	0.00163	0.9896	mg/L	0.00326	0.33%
Be 313.042†	1111.8	0.00105	mg/L	0.000015	0.00209	mg/L	0.000030	1.45%
Ca 317.933†	184719.9	15.89	mg/L	0.027	31.78	mg/L	0.055	0.17%
Cd 228.802†	72.2	0.00194	mg/L	0.000121	0.00388	mg/L	0.000241	6.21%
Co 228.616†	1434.4	0.03758	mg/L	0.000587	0.07516	mg/L	0.001174	1.56%
Cr 267.716†	1776.2	0.2265	mg/L	0.00144	0.4530	mg/L	0.00289	0.64%
Cu 324.752†	183434.3	0.7964	mg/L	0.01034	1.593	mg/L	0.0207	1.30%
Fe 273.955†	161062.2	125.9	mg/L	0.43	251.8	mg/L	0.85	0.34%
K 766.490†	6861.9	3.731	mg/L	0.0223	7.462	mg/L	0.0446	0.60%
Mg 279.077†	26739.5	21.22	mg/L	0.095	42.44	mg/L	0.191	0.45%
Mn 257.610†	49438.2	1.049	mg/L	0.0055	2.098	mg/L	0.0111	0.53%
Mo 202.031†	416.5	0.02569	mg/L	0.000344	0.05138	mg/L	0.000688	1.34%
Na 589.592†	14597.8	1.163	mg/L	0.0095	2.326	mg/L	0.0191	0.82%
Na 330.237†	33.4	2.739	mg/L	0.2228	5.477	mg/L	0.4456	8.14%
Ni 231.604†	870.4	0.2389	mg/L	0.00133	0.4779	mg/L	0.00265	0.56%
Pb 220.353†	6817.4	0.8311	mg/L	0.00624	1.662	mg/L	0.0125	0.75%
Sb 206.836†	-3.6	0.00491	mg/L	0.001487	0.00982	mg/L	0.002974	30.29%
Se 196.026†	32.7	0.02239	mg/L	0.001277	0.04479	mg/L	0.002554	5.70%
Si 288.158†	8652.0	5.223	mg/L	0.0315	10.45	mg/L	0.063	0.60%
Sn 189.927†	-20.7	0.00182	mg/L	0.000528	0.00364	mg/L	0.001057	29.04%
Sr 421.552†	117225.9	0.1355	mg/L	0.00024	0.2710	mg/L	0.00048	0.18%
Ti 334.903†	148231.9	4.752	mg/L	0.0182	9.504	mg/L	0.0363	0.38%
Tl 190.801†	-15.1	0.00714	mg/L	0.001628	0.01427	mg/L	0.003255	22.81%
V 292.402†	62947.9	0.3984	mg/L	0.00510	0.7967	mg/L	0.01020	1.28%
Zn 206.200†	985.5	0.2469	mg/L	0.00058	0.4938	mg/L	0.00117	0.24%

Sequence No.: 75
Sample ID: SS83 L SWC

Autosampler Location: 308
Date Collected: 4/27/2011 1:52:20 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 L SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 L SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2497552.1	111.9	%	0.33				0.29%
ScR 361.383	452586.2	113.7	%	0.97				0.86%
Ag 328.068†	133.7	0.00022	mg/L	0.000315	0.00044	mg/L	0.000630	141.74%
Al 308.215†	179934.6	128.9	mg/L	0.57	257.8	mg/L	1.14	0.44%
As 188.979†	-11.8	0.04824	mg/L	0.002827	0.09647	mg/L	0.005653	5.86%
B 249.677†	58.6	0.01035	mg/L	0.001828	0.02070	mg/L	0.003655	17.66%
Ba 233.527†	3551.1	0.4842	mg/L	0.00446	0.9685	mg/L	0.00893	0.92%
Be 313.042†	2138.1	0.00223	mg/L	0.000042	0.00446	mg/L	0.000083	1.87%
Ca 317.933†	332695.2	28.62	mg/L	0.064	57.24	mg/L	0.128	0.22%
Cd 228.802†	28.2	0.00124	mg/L	0.000189	0.00248	mg/L	0.000377	15.19%
Co 228.616†	2601.4	0.07043	mg/L	0.000714	0.1409	mg/L	0.00143	1.01%
Cr 267.716†	1911.1	0.2429	mg/L	0.00269	0.4858	mg/L	0.00538	1.11%
Cu 324.752†	25955.1	0.1170	mg/L	0.00105	0.2340	mg/L	0.00209	0.90%
Fe 273.955†	187794.5	146.8	mg/L	0.82	293.6	mg/L	1.64	0.56%
K 766.490†	9741.2	5.297	mg/L	0.0097	10.59	mg/L	0.019	0.18%
Mg 279.077†	49920.3	39.65	mg/L	0.146	79.31	mg/L	0.292	0.37%
Mn 257.610†	155008.5	3.287	mg/L	0.0170	6.574	mg/L	0.0339	0.52%
Mo 202.031†	45.1	0.00228	mg/L	0.000401	0.00456	mg/L	0.000802	17.59%
Na 589.592†	13420.3	1.069	mg/L	0.0061	2.138	mg/L	0.0123	0.57%
Na 330.237†	9.5	2.725	mg/L	0.2247	5.451	mg/L	0.4494	8.24%
Ni 231.604†	1235.1	0.3390	mg/L	0.00117	0.6781	mg/L	0.00233	0.34%
Pb 220.353†	-8.8	0.01581	mg/L	0.001158	0.03163	mg/L	0.002317	7.32%
Sb 206.836†	-14.0	0.00424	mg/L	0.003664	0.00848	mg/L	0.007329	86.37%
Se 196.026†	28.9	0.01583	mg/L	0.005845	0.03166	mg/L	0.011690	36.93%
Si 288.158†	10936.3	6.603	mg/L	0.0576	13.21	mg/L	0.115	0.87%
Sn 189.927†	-65.4	-0.00268	mg/L	0.000794	-0.00536	mg/L	0.001589	29.65%
Sr 421.552†	167801.3	0.1939	mg/L	0.00084	0.3879	mg/L	0.00168	0.43%
Ti 334.903†	226933.7	7.275	mg/L	0.0331	14.55	mg/L	0.066	0.45%
Tl 190.801†	-22.9	0.00508	mg/L	0.005937	0.01017	mg/L	0.011874	116.80%
V 292.402†	58254.8	0.3649	mg/L	0.00373	0.7298	mg/L	0.00746	1.02%
Zn 206.200†	1101.7	0.2759	mg/L	0.00195	0.5519	mg/L	0.00389	0.71%

Sequence No.: 76
Sample ID: SS83 M SWC

Autosampler Location: 309
Date Collected: 4/27/2011 1:56:18 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 M SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SS83 M SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2534122.2	113.6	%	0.23				0.20%
ScR 361.383	466140.7	117.1	%	0.71				0.60%
Ag 328.068†	124.3	0.00034	mg/L	0.000049	0.00068	mg/L	0.000098	14.38%
Al 308.215†	177085.9	126.9	mg/L	0.86	253.8	mg/L	1.72	0.68%
As 188.979†	13.8	0.06058	mg/L	0.001181	0.1212	mg/L	0.00236	1.95%
B 249.677†	58.1	0.01029	mg/L	0.000615	0.02058	mg/L	0.001230	5.98%
Ba 233.527†	3794.2	0.5182	mg/L	0.00331	1.036	mg/L	0.0066	0.64%
Be 313.042†	1798.8	0.00185	mg/L	0.000028	0.00370	mg/L	0.000056	1.50%
Ca 317.933†	314112.4	27.02	mg/L	0.144	54.04	mg/L	0.288	0.53%
Cd 228.802†	48.2	0.00189	mg/L	0.000108	0.00377	mg/L	0.000216	5.72%
Co 228.616†	2288.9	0.06168	mg/L	0.000546	0.1234	mg/L	0.00109	0.89%
Cr 267.716†	2421.0	0.3066	mg/L	0.00219	0.6132	mg/L	0.00437	0.71%
Cu 324.752†	33137.3	0.1481	mg/L	0.00120	0.2961	mg/L	0.00239	0.81%
Fe 273.955†	183989.9	143.8	mg/L	1.23	287.7	mg/L	2.46	0.85%
K 766.490†	8583.1	4.667	mg/L	0.0218	9.334	mg/L	0.0436	0.47%
Mg 279.077†	51777.7	41.13	mg/L	0.225	82.27	mg/L	0.450	0.55%
Mn 257.610†	109136.2	2.314	mg/L	0.0218	4.629	mg/L	0.0436	0.94%
Mo 202.031†	66.4	0.00364	mg/L	0.000286	0.00728	mg/L	0.000572	7.86%
Na 589.592†	14733.1	1.174	mg/L	0.0079	2.347	mg/L	0.0158	0.67%
Na 330.237†	22.3	2.924	mg/L	0.1323	5.848	mg/L	0.2645	4.52%
Ni 231.604†	1176.1	0.3228	mg/L	0.00287	0.6457	mg/L	0.00575	0.89%
Pb 220.353†	582.4	0.08683	mg/L	0.000999	0.1737	mg/L	0.00200	1.15%
Sb 206.836†	-13.4	0.00277	mg/L	0.002436	0.00554	mg/L	0.004873	87.92%
Se 196.026†	26.6	0.01400	mg/L	0.000508	0.02799	mg/L	0.001017	3.63%
Si 288.158†	9776.4	5.904	mg/L	0.0480	11.81	mg/L	0.096	0.81%
Sn 189.927†	-53.7	-0.00106	mg/L	0.002001	-0.00213	mg/L	0.004001	188.02%
Sr 421.552†	169061.8	0.1954	mg/L	0.00151	0.3908	mg/L	0.00301	0.77%
Ti 334.903†	204827.4	6.566	mg/L	0.0532	13.13	mg/L	0.106	0.81%
Tl 190.801†	-22.3	0.00507	mg/L	0.001575	0.01015	mg/L	0.003151	31.06%
V 292.402†	57156.0	0.3586	mg/L	0.00277	0.7171	mg/L	0.00555	0.77%
Zn 206.200†	1430.8	0.3584	mg/L	0.00215	0.7168	mg/L	0.00431	0.60%

Sequence No.: 77
Sample ID: SS83 N SWC

Autosampler Location: 310
Date Collected: 4/27/2011 2:00:16 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS83 N SWC

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: SS83 N SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2522846.1	113.1	%	1.46				1.29%
ScR 361.383	459527.4	115.5	%	0.72				0.62%
Ag 328.068†	176.4	0.00090	mg/L	0.000042	0.00179	mg/L	0.000084	4.69%
Al 308.215†	99188.2	71.06	mg/L	0.336	142.1	mg/L	0.67	0.47%
As 188.979†	296.2	0.2384	mg/L	0.00184	0.4767	mg/L	0.00367	0.77%
B 249.677†	64.5	0.01154	mg/L	0.000484	0.02309	mg/L	0.000967	4.19%
Ba 233.527†	3019.6	0.4124	mg/L	0.00232	0.8248	mg/L	0.00464	0.56%
Be 313.042†	621.0	0.00050	mg/L	0.000008	0.00100	mg/L	0.000016	1.56%
Ca 317.933†	201997.1	17.38	mg/L	0.040	34.75	mg/L	0.080	0.23%
Cd 228.802†	49.4	0.00112	mg/L	0.000089	0.00224	mg/L	0.000178	7.93%
Co 228.616†	1166.9	0.03056	mg/L	0.000276	0.06112	mg/L	0.000552	0.90%
Cr 267.716†	1361.9	0.1744	mg/L	0.00156	0.3487	mg/L	0.00311	0.89%
Cu 324.752†	107707.0	0.4693	mg/L	0.00551	0.9386	mg/L	0.01102	1.17%
Fe 273.955†	146700.2	114.7	mg/L	0.46	229.4	mg/L	0.92	0.40%
K 766.490†	5030.4	2.735	mg/L	0.0055	5.470	mg/L	0.0109	0.20%
Mg 279.077†	21096.5	16.73	mg/L	0.066	33.47	mg/L	0.132	0.40%
Mn 257.610†	36954.1	0.7842	mg/L	0.00395	1.568	mg/L	0.0079	0.50%
Mo 202.031†	340.6	0.02093	mg/L	0.000336	0.04186	mg/L	0.000671	1.60%
Na 589.592†	10964.0	0.8733	mg/L	0.00478	1.747	mg/L	0.0096	0.55%
Na 330.237†	33.1	2.452	mg/L	0.2901	4.904	mg/L	0.5802	11.83%
Ni 231.604†	585.6	0.1607	mg/L	0.00126	0.3215	mg/L	0.00251	0.78%
Pb 220.353†	5881.6	0.7149	mg/L	0.00645	1.430	mg/L	0.0129	0.90%
Sb 206.836†	-5.5	0.00324	mg/L	0.001282	0.00649	mg/L	0.002565	39.53%
Se 196.026†	33.6	0.02332	mg/L	0.002663	0.04664	mg/L	0.005326	11.42%
Si 288.158†	8359.1	5.046	mg/L	0.0363	10.09	mg/L	0.073	0.72%
Sn 189.927†	-24.4	0.00119	mg/L	0.000504	0.00238	mg/L	0.001009	42.39%
Sr 421.552†	91831.2	0.1061	mg/L	0.00045	0.2123	mg/L	0.00090	0.43%
Ti 334.903†	120905.7	3.875	mg/L	0.0227	7.751	mg/L	0.0454	0.59%
Tl 190.801†	-13.3	0.00673	mg/L	0.002162	0.01347	mg/L	0.004324	32.11%
V 292.402†	59597.0	0.3777	mg/L	0.00570	0.7554	mg/L	0.01139	1.51%
Zn 206.200†	665.8	0.1668	mg/L	0.00143	0.3336	mg/L	0.00287	0.86%

Sequence No.: 78
Sample ID: CV 7

Autosampler Location: 7
Date Collected: 4/27/2011 2:04:13 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2449486.4	109.8	%	0.36				0.33%
ScR 361.383	441985.4	111.1	%	0.35				0.31%
Ag 328.068†	189124.0	1.019	mg/L	0.0077	1.019	mg/L	0.0077	0.76%
Al 308.215†	2772.8	1.954	mg/L	0.0106	1.954	mg/L	0.0106	0.54%
As 188.979†	2808.6	1.983	mg/L	0.0169	1.983	mg/L	0.0169	0.85%
B 249.677†	5488.5	0.9870	mg/L	0.00471	0.9870	mg/L	0.00471	0.48%
Ba 233.527†	6983.7	0.9709	mg/L	0.00170	0.9709	mg/L	0.00170	0.17%
Be 313.042†	887712.1	1.011	mg/L	0.0048	1.011	mg/L	0.0048	0.47%
Ca 317.933†	23078.8	1.985	mg/L	0.0068	1.985	mg/L	0.0068	0.34%
Cd 228.802†	28420.0	1.015	mg/L	0.0090	1.015	mg/L	0.0090	0.88%
Co 228.616†	30564.7	0.9660	mg/L	0.00726	0.9660	mg/L	0.00726	0.75%
Cr 267.716†	7779.0	0.9745	mg/L	0.00312	0.9745	mg/L	0.00312	0.32%
Cu 324.752†	220859.0	0.9530	mg/L	0.00369	0.9530	mg/L	0.00369	0.39%
Fe 273.955†	2557.6	1.994	mg/L	0.0062	1.994	mg/L	0.0062	0.31%
K 766.490†	36741.3	19.98	mg/L	0.126	19.98	mg/L	0.126	0.63%
Mg 279.077†	2437.7	1.943	mg/L	0.0065	1.943	mg/L	0.0065	0.33%
Mn 257.610†	45781.7	0.9713	mg/L	0.00096	0.9713	mg/L	0.00096	0.10%
Mo 202.031†	15439.4	0.9632	mg/L	0.00794	0.9632	mg/L	0.00794	0.82%
Na 589.592†	630127.8	50.19	mg/L	0.140	50.19	mg/L	0.140	0.28%
Na 330.237†	1415.6	50.76	mg/L	0.501	50.76	mg/L	0.501	0.99%
Ni 231.604†	3721.5	1.023	mg/L	0.0028	1.023	mg/L	0.0028	0.27%
Pb 220.353†	16130.7	1.943	mg/L	0.0062	1.943	mg/L	0.0062	0.32%
Sb 206.836†	4904.7	1.970	mg/L	0.0139	1.970	mg/L	0.0139	0.70%
Se 196.026†	2467.5	2.009	mg/L	0.0170	2.009	mg/L	0.0170	0.84%
Si 288.158†	3324.1	2.011	mg/L	0.0121	2.011	mg/L	0.0121	0.60%
Sn 189.927†	4882.7	0.9594	mg/L	0.00784	0.9594	mg/L	0.00784	0.82%
Sr 421.552†	880277.8	1.017	mg/L	0.0045	1.017	mg/L	0.0045	0.44%
Ti 334.903†	29678.2	0.9503	mg/L	0.00379	0.9503	mg/L	0.00379	0.40%
Tl 190.801†	3250.7	1.963	mg/L	0.0097	1.963	mg/L	0.0097	0.50%
V 292.402†	149120.7	0.9771	mg/L	0.00375	0.9771	mg/L	0.00375	0.38%
Zn 206.200†	3953.1	0.9900	mg/L	0.00363	0.9900	mg/L	0.00363	0.37%

Sequence No.: 79
Sample ID: CB

Autosampler Location: 1
Date Collected: 4/27/2011 2:07:28 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2407917.2	107.9	%	0.66				0.62%
ScR 361.383	434830.9	109.3	%	0.08				0.07%
Ag 328.068†	133.4	0.00072	mg/L	0.000120	0.00072	mg/L	0.000120	16.70%
Al 308.215†	45.0	0.03223	mg/L	0.003639	0.03223	mg/L	0.003639	11.29%
As 188.979†	0.6	0.00040	mg/L	0.001984	0.00040	mg/L	0.001984	496.54%
B 249.677†	6.3	0.00113	mg/L	0.000894	0.00113	mg/L	0.000894	78.99%
Ba 233.527†	-5.7	-0.00080	mg/L	0.000551	-0.00080	mg/L	0.000551	68.97%
Be 313.042†	6.1	0.00001	mg/L	0.000019	0.00001	mg/L	0.000019	273.47%
Ca 317.933†	58.4	0.00503	mg/L	0.001303	0.00503	mg/L	0.001303	25.92%
Cd 228.802†	-1.2	-0.00004	mg/L	0.000067	-0.00004	mg/L	0.000067	156.60%
Co 228.616†	15.8	0.00050	mg/L	0.000152	0.00050	mg/L	0.000152	30.49%
Cr 267.716†	-4.7	-0.00059	mg/L	0.000405	-0.00059	mg/L	0.000405	69.01%
Cu 324.752†	-58.3	-0.00025	mg/L	0.000102	-0.00025	mg/L	0.000102	40.58%
Fe 273.955†	29.1	0.02276	mg/L	0.000448	0.02276	mg/L	0.000448	1.97%
K 766.490†	74.4	0.04048	mg/L	0.016142	0.04048	mg/L	0.016142	39.88%
Mg 279.077†	27.8	0.02211	mg/L	0.010373	0.02211	mg/L	0.010373	46.91%
Mn 257.610†	5.9	0.00013	mg/L	0.000035	0.00013	mg/L	0.000035	28.14%
Mo 202.031†	-6.6	-0.00041	mg/L	0.000316	-0.00041	mg/L	0.000316	76.82%
Na 589.592†	-365.1	-0.02908	mg/L	0.002618	-0.02908	mg/L	0.002618	9.00%
Na 330.237†	41.6	1.490	mg/L	0.0936	1.490	mg/L	0.0936	6.28%
Ni 231.604†	1.4	0.00038	mg/L	0.002105	0.00038	mg/L	0.002105	553.81%
Pb 220.353†	13.2	0.00159	mg/L	0.000849	0.00159	mg/L	0.000849	53.35%
Sb 206.836†	0.3	0.00014	mg/L	0.000758	0.00014	mg/L	0.000758	528.67%
Se 196.026†	5.9	0.00482	mg/L	0.002417	0.00482	mg/L	0.002417	50.11%
Si 288.158†	1.6	0.00099	mg/L	0.003926	0.00099	mg/L	0.003926	395.16%
Sn 189.927†	-0.2	-0.00004	mg/L	0.000279	-0.00004	mg/L	0.000279	726.22%
Sr 421.552†	125.8	0.00015	mg/L	0.000032	0.00015	mg/L	0.000032	21.85%
Ti 334.903†	-17.0	-0.00055	mg/L	0.000565	-0.00055	mg/L	0.000565	103.69%
Tl 190.801†	2.6	0.00158	mg/L	0.002758	0.00158	mg/L	0.002758	174.78%
V 292.402†	55.2	0.00036	mg/L	0.000114	0.00036	mg/L	0.000114	32.23%
Zn 206.200†	3.7	0.00091	mg/L	0.000389	0.00091	mg/L	0.000389	42.56%

General Chemistry Raw Data
Analyst Notes and Raw Data

ARI Job ID: SS83

4-25-11

TOC Solids Prep Log

DATE: 4/22/2011

ANALYST: KET/CDE 18:47

acid purging to remove IC and drying at 70°C for TOC analysis

General notes regarding prep method and samples (identify the acid used)

make no entry to shaded cells, they are calculated

Sample ID		IC Test	Gravimetric Data (grams)			%	Sample description & notes
ARI #	Client	+ / -	Tare Wt.	Wet wt.	70°C dry wt	Solids	(homogeneity and exclusions)
Blank			13.0488	0.0000	13.0489	0.1 mg	
SS83 A6		-	13.0727	17.9518	17.5101	90.95%	
SS83 B6		-	13.1706	17.1719	16.5118	83.50%	
SS83 C6		-	13.3179	17.6765	17.3204	91.83%	
SS83 D6		-	13.2594	17.6953	17.1049	86.69%	
SS83 E6		-	13.0774	18.4454	18.0150	91.98%	
SS83 F6		-	13.1870	17.7754	17.3634	91.02%	
SS83 G6		-	13.2491	18.7351	18.1874	90.02%	
SS83 H6		-	13.2617	16.6836	14.5382	37.30%	
SS83 I6		-	13.2615	19.4207	18.5629	86.07%	
SS83 J6		-	13.2853	16.3344	15.1737	61.93%	
SS83 K6		-	13.2817	17.3800	15.6211	57.08%	
SS83 L6		-	13.1396	17.8232	16.9622	81.62%	
SS83 M6		-	13.1589	17.7433	17.1052	86.08%	
SS83 N6		-	13.2980	16.3330	14.4921	39.34%	
SS83 O6		-	13.1714	18.1620	17.5212	87.16%	
SS83 O6 DU		-	13.0508	18.1663	17.4028	85.07%	2.42
SS83 O6 TP		-	13.3001	19.0309	18.2869	87.02%	0.16

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC an alysis
Add general notes regarding samples and preparation and identify the acid used

Analyst KBT/CMC Date 4/22/11 18:47

Sample Idenification		IC	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID	Test	Tare	Wet	70 °C		
Blank	KBT 4/22/11	~~Ø~~	13.0488	Ø	13.0489		
SS83 A6		—	13.0727	17.9518	17.5101		soil + rocks
B6		—	13.1706	17.1719	16.5118		"
C6		—	13.3179	17.6765	17.3204		
D6		—	13.2594	17.6853	17.1049		
E6		—	13.0774	18.4454	19.0150		KBT 4/22/11
F6		—	13.1870	17.7754	17.3634		~~clayish~~ soil w/ rocks
G6		—	13.2491	18.7351	18.1874		"
H6		—	13.2617	16.6836	14.5382		soil
I6		—	13.2615	19.4207	18.5629		sand
J6		—	13.2853	16.3344	15.1737		soil
K6		—	13.2817	17.3800	15.6211		"
L6		—	13.1396	17.8232	16.9622		sand
M6		—	13.1589	17.7433	17.1052		soil w/ rocks
N6		—	13.2980	16.3330	14.4921		soil
O16		—	13.1714	18.1620	17.5212		mud w/ rocks, gravel
O16 DU		—	13.0508	18.1163	17.4028		
O16 TP		—	13.3001	19.0309	14.2869		

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET DATE: 4/22/2011

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))* ANALYST: KET/RR

Instrumentation ***Drying Ovens:*** 1 ***Analytical Balance:*** 1123230597

Muffle Furnace: NA

Batch drying time	*TS (%) calculated as:*	*TVS (mg/kg dry wt) calculated as:*
record times as mm/dd/yy hh:mm	*Final dry wt (g) = (Dry Wt - Tare Wt)*	*Final ash wt (g) = (min ash wt - tare wt)*
4/22/2011 18:17 date/time in oven	*TS = (Final Dry Wt)/ (grams Sample-Tare)*	*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
4/23/2011 15:30 date/time out		*if ash wt > dry wt, "Chk for Err"*
elapsed hrs = 21.2		*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

W 4-25-11

	Cal Weight ID	CV-02	CV-02	CV-02	CV-02				CV-02	CV-02			
	Date & Time	4/22/11 16:01	4/22/11 11:04	4/23/11 15:45									
Cal Wt (g)	10.0000	10.0000	10.0000	10.0000									
	record weights to 4 places	*Cal OK!*	*Cal OK!*	*Cal OK!*									

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2		Ash Wt (g)	TVS (mg/kg)	TVS (%)
Blank		0.0000	1.1070	1.1069			0.00							
SS83 A6		5.7050	1.1101	5.1542			4.04	88.0%						
SS83 B6		5.0566	1.0881	4.3329			3.24	81.8%						
SS83 C6		6.7890	1.1049	6.1876			5.08	89.4%						
SS83 D6		6.4500	1.1023	5.6514			4.55	86.1%						
SS83 E6		6.7780	1.0967	6.1851			5.09	89.6%						
SS83 F6		5.8621	1.1171	5.2926			4.18	88.0%						
SS83 G6		6.8895	1.0929	6.2663			5.17	89.2%						
SS83 H6		5.0559	1.1111	2.4272			1.32	33.4%						
SS83 I6		6.3692	1.0997	5.5292			4.43	84.1%						
SS83 J6		5.0076	1.0619	2.9574			1.90	48.0%						
SS83 K6		5.5420	1.1166	3.3347			2.22	50.1%						
SS83 L6		5.7652	1.0919	4.8198			3.73	79.8%						
SS83 M6		6.6073	1.0560	5.6246			4.57	82.3%						
SS83 N6		5.9021	1.0749	2.7317			1.66	34.3%						
SS83 O6		6.7733	1.0641	5.9412			4.88	85.4%						
SS83 O6 dup		6.7261	1.0596	5.9238			4.86	85.8%						
							RPD =	0.49%				RPD =		NA
SS83 O6 trp		6.1872	1.1403	5.3598			4.22	83.6%						
							RSD =	1.40%				RSD =		NA

SS83 : 61714

1717

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Analyst: KET	Date: 4/22/11		Oven ID: 012	Balance ID:	1123230597
Time in Oven: 18:17		Time Out of Oven: 4/23/11 15:30		Elapsed Time (> 12 Hrs):	

Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places

TS (%) calculated as:
Final Dry Weight (g) = (Dry Weight – Tare Weight)
TS = (Final Dry Weight) / (Grams Sample – Tare Weight)

TVS (mg/kg dry weight) calculated as:
Final Ash Weight (g) = (Minimum Ash Weight – Tare Weight)
TVS (mg/kg) = [(Dry Weight – Ash Weight) / (Dry Weight) * 1,000,000
If Ash Weight > Dry Weight then "Check for Error"
If Dry Weight – Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000

Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02	[redacted]	CV-02	CV-02	CV-02	
Date & Time:	4/22/11 16:01	4/22/11 11:04	4/23/11							
Cal Weight (10.0000):	10.0000 KET	10.0000 KET	10.0000 KET							

Sample ID	Dish #	Sample	Tare	Dry Weight 104°C 1	2	3	Dry Weight grams	Ash Weight 550°C 1	2	3
BLANK	1	Ø	1.1070	1.1869						
SS83 A6	2	5.7050	1.1101	5.1542						
B6	3	5.0566	1.0881	4.3329						
C6	4	6.7890	1.1049	6.1876						
D6	5	6.4500	1.1023	5.6514						
E6	6	6.7780	1.0967	6.1851						
F6	7	5.8621	1.1171	5.2926						
G6	8	6.8895	1.0929	6.2663						
H6	9	5.0559	1.1111	2.4272						
I6	10	6.3692	1.0997	5.5292						
J6	11	5.0076	1.0619	2.9574						
K6	12	5.5420	1.1166	3.3347						
L6	13	5.7652	1.0919	4.8198						
M6	14	6.6073	1.0560	5.6246						
N6	15	5.9021	1.0749	2.7317						
O16	16	6.7733	1.0641	5.9412						
O16 DU	17	6.7261	1.0596	5.9258						
O16 TP	18	6.1872	1.1403	5.3598						
			① KET 4/24/11							

SS83:01715

4748

6053F

Revision 002
12/28/09

TOC, Solids Data Analysis

DATE: 5/10/2011
ANALYST: KE 10:02

Instrument: Apollo 2
Mode: NPOC *Inlet:* Boat
Spike Std = 2,500 *ppm C*

Calibration Data

Cal Curve ID: 41911 BOAT CAL *Conc:* 5,000 *ppm*
Calibration Curve Standard: ARI # 00115 - 7 *Curve Date:* 04/19/11
CalFact: 3.116E+05 *intercept:* -80028 *r2 :* 0.99955
Curve Range (ppm) 200 *to* 2,500
Curve Range (µgC): 8 *to* 100 *40 µL injections of designated standard*

Verification Standard Source: *ERA# 0513 - 10 - 06* *Conc:* 5,000 *ppm*
dilution : 10 *mL to* 50 1,000 *ppm*

Standard Reference Material Source: *NIST 8704* *Conc:* 33,510 *ppm*
Source: *NIST 1941B* *Conc:* 29,900 *ppm*

Silica Blanks

Replicate determinations						Mean	RSD	condition
29.7	17.5	29.7	19.7			24.2	23.9%	*OK*

Sample Data

*"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data				Spike	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	(µL Std)	Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	comments
ICV				1.00		40.0	967	967	*96.70%*
Blank				1.00		40.0	22.36	22	*Blank OK*
NIST 1941B				1.00		3.1	30133	30,133	*100.78%*
Silica Blanks 1				1.00		51.0	29.68	30	*Low Scale*
Silica Blanks 2				1.00		51.2	17.54	18	*Low Scale*
Silica Blanks 3				1.00		57.5	29.72	30	*Low Scale*
Silica Blanks 4				1.00		53.2	19.70	20	*Low Scale*
SS83 I 16				1.00		4.1	5083	5,083	*Range OK!*
SS83 I 16 dup				1.00		3.9	5568	5,568	*RPD=9.1%*
SS83 I 16 trp				1.00		4.2	4921	4,921	*RSD=6.5%*
~~SS83 I 16 ms~~			-	~~1.00~~	~~10~~	~~4.1~~	~~9401~~	~~9,401~~	~~*Range OK!*~~
~~*Spike =*~~	~~*0.025*~~	~~*mg C to*~~	~~*4.1*~~	~~*mg samp=*~~	~~*6,098*~~	~~*ppm*~~		~~*71%*~~	
SS83 I 16 ms				1.00	10	4.5	10065	10,065	*Range OK!*
Spike =	*0.025*	*mg C to*	*4.5*	*mg samp=*	*5,556*	*ppm*		*90%*	
CCV				1.00		40.0	925	925	*92.50%*
Blank				1.00		40.0	13.66	14	*Blank OK*
SS83 A6				1.00		2.1	8431	8,431	*Range OK!*
SS83 B6				1.00		1.1	70792	70,792	*Range OK!*
SS83 C6				1.00		2.5	5470	5,470	*Range OK!*
SS83 D6				1.00		1.3	20111	20,111	*Range OK!*
SS83 E6				1.00		3.4	6011	6,011	*Range OK!*
SS83 F6				1.00		4.9	5667	5,667	*Range OK!*
SS83 G6				1.00		3.2	4903	4,903	*Range OK!*
SS83 H6				1.00		0.9	99219	99,219	*Range OK!*
SS83 I 6				1.00		5.0	2529	2,529	*Range OK!*
SS83 J 6				1.00		1.0	82591	82,591	*Range OK!*

Sample Data

*"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data				Spike	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	(µL Std)	Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	comments
CCV				1.00		40.0	951	951	*95.10%*
Blank				1.00		40.0	28.43	28	*Blank OK*
SS83 K6				1.00		0.9	98221	98,221	*Range OK!*
SS83 L6				1.00		4.5	1646	1,646	*Low Scale*
SS83 M6				1.00		1.5	12658	12,658	*Range OK!*
SS83 N6				1.00		1.1	54911	54,911	*Range OK!*
~~SS93 B1~~			-	~~1.00~~		~~1.4~~	~~62036~~	~~62,036~~	~~*Range OK!*~~
~~SS93 B1 dup~~				~~1.00~~		~~1.3~~	~~79061~~	~~79,061~~	~~*RPD=24.1%*~~
SS93 B1	9.2	91.1	89.90%	9.90		1.8	6766	66,783	*Range OK!*
SS93 B1 dup	9.2	91.3	89.92%	9.92		1.8	8195	81,111	*RPD=19.4%*
SS93 B1 trp	9.2	91.1	89.90%	9.90		1.8	5838	57,594	*RSD=17.3%*
~~SS93 B1 ms~~	~~9.2~~	~~91.1~~	~~89.90%~~	~~9.90~~	~~10~~	~~1.8~~	~~6689~~	~~66,021~~	~~*Range OK!*~~
~~*Spike =*~~	~~*0.025*~~	~~*mg C to*~~	~~*0.2*~~	~~*mg samp=*~~	~~*137,530*~~	~~*ppm*~~		~~*-1%*~~	
CCV				1.00		40.0	937	937	*93.70%*
Blank				1.00		40.0	11.97	12	*Blank OK*
SS93 B1 ms	9.2	91.1	89.90%	9.90	10	2.0	19245	190,352	*Range OK!*
Spike =	*0.025*	*mg C to*	*0.2*	*mg samp=*	*123,777*	*ppm*		*100%*	
SS93 C1	11.0	100.9	89.10%	9.17		2.4	6113	55,875	*Range OK!*
SS93 D1	12.0	108.9	88.98%	9.08		2.1	7430	67,232	*Range OK!*
SS93 E1				1.00		1.0	47876	47,876	*Range OK!*
SS93 F1				1.00		0.8	64111	64,111	*Range OK!*
SS93 G1				1.00		1.0	68985	68,985	*Range OK!*
SS93 H1				1.00		1.0	54578	54,578	*Range OK!*
SS93 I 1				1.00		1.0	55702	55,702	*Range OK!*
SS93 J 1				1.00		0.8	46958	46,958	*Range OK!*
SS93 K1				1.00		0.9	66713	66,713	*Range OK!*
CCV				1.00		40.0	974	974	*97.40%*
Blank				1.00		40.0	15.3	15	*Blank OK*
SS93 L1				1.00		0.9	75505	75,505	*Range OK!*
SS93 M1				1.00		0.9	51438	51,438	*Range OK!*
SS93 N1				1.00		0.8	44519	44,519	*Range OK!*
SS93 O1				1.00		0.9	75881	75,881	*Range OK!*
SS93 P1				1.00		0.8	72355	72,355	*Range OK!*
NIST 1941B				1.00		2.8	25795	25,795	*86.27%*
CCV				1.00		40.0	930	930	*93.00%*
Blank				1.00		40.0	9.3	9	*Blank OK*

(1) 5-10-11 (W)

TOC Solids Sample Run Log
Apollo 9000

Set-Up Parameters MODE: NPOC Bat **INLET:** Boat Sampler

Standards:	Source	Conc (ppm)
Calibration:	ARI 00115-7	5000
Verification:	ERA 0513-10-06	5000 to 1000 for CCVS
SRM:	NBS 1941B	29900

10:02

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
ICV			40			
ICB			40			
NBS 1941B			3.1			
SB 1			51.9			
2			51.2			
3			57.5			
4			53.2			
SS83 O16			4.1			
dp O16			3.9			
dp O16			4.2			
ms O16			4.1	2500	10	ICVS
msO16			4.5	2500	10	
CCV			40			
CCB			40			
SS83 A1			2.1			
B1			1.1			
C1			2.5			
D1			1.3			
E1			3.4			
F1			4.9			
G1			3.2			
H1			0.9			
I1			5.0			
J1			1.0			
CCV			40			
CCB			40			
SS83 K1			0.9			
L1			4.5			
M1			1.5			
N1			1.1			
SS93 B'			1.4			
B'			1.3			