



Hygienic Laboratory

The University of Iowa

Page 2

Sample Number 200615161

Description of units used within this report

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, NELAP, USEPA, NVLAP #101288-0 and other credentials available upon request.

If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.

Page 2 - End of Report

Mary J. R. Gilchrist, Ph.D.
Director

102 Oakdale Campus, #101 OH
Iowa City, Iowa 52242-5002
319/335-4500 Fax: 319/335-4555

<http://www.uhl.uiowa.edu>

Iowa Laboratories Complex
2220 S. Ankeny Blvd, Ankeny, Iowa 50023
515/725-1600 Fax: 515/725-1642



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Sample Number 200615162

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515/725-1600 Fax: 515/725-1642



Date of report: 09-18-2006

DES MOINES IA 50319-0034

Sample Number	200615165
Date Received	08-31-2006
Project	WMSF
Date Collected	08-30-2006 15:15
Collection Site	mw-8
Collection Town	
Description	water
Reference	BLACKTON OIL-GUTHRIE
Collector	RICE TAMI
Phone	(515) 281-4420
Purchase Order	19745

Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

Total Extractable Hydrocarbons

The chromatographic profile of this sample indicates a mixture, 120 ug/l did not match this laboratory's fuel or oil standards, quantitation was based on this laboratory's diesel fuel standard. The remaining 250 ug/l did not match this laboratory's fuel or oil standards and quantitation was based on this laboratory's gasoline standard.

Analyst: CR
Verified: SM
Analyst: SE
Verified: KB

Volatile Petroleum Hydrocarbons by GC/MS

Page 1 - Continued on next page



Hygienic Laboratory

The University of Iowa

Page 2

Sample Number 200615165

Volatile Petroleum Hydrocarbons by GC/MS

Analyte	Concentration ug/L	Quantitation Limit ug/L
cis-1,2-Dichloroethene	7	5
Isopropylbenzene	10	5
n-Propylbenzene	12	5
Comments	Please note that the pH of this sample was less than or equal to 2.	

Date Analyzed: 09-06-2006

Analyst: LL

Method: OA-1

Verified: TC

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Sample Number 200615166

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ug/L - Micrograms per Liter

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Hygienic Laboratory

The University of Iowa

CHAIN-OF-CUSTODY

WMSF

Purchase Order #

19745

Contact Name		Phone		Analysis Requested										Project Name and/or Number					
Tami Rice		515-281-4420												Blackton Oil-Guthrie Center 2824					
Company		Fax												Collector's Phone #					
IDNR-CONTAMINATED SITES		515-281-8895												515-281-4420					
Address														Print Collector's Name					
WALLACE BLDG, 502 E. 9th Street														Tami S Rice					
City		State		Zip												Collector's Signature			
DES MOINES		IA		50319												TAMI S RICE			
Sample ID/Description		Date		Time		Sample Matrix												Comments/UHL Sample Number	
						W S Other													
1. MW-6		8/30/06		2:25P		✓		OA-1 (reserved) OA-2 (not reserved)										200615161	
2. MW-13				2:10P		✓												200615162	
3. MW-12				1:52P		✓												200615163	
4. Municipal Well 4				8:34A		✓												200615164	
5. MW-8				3:15P		✓												200615165	
6. MW-1				2:40P		✓												200615166	
7. MW-3				1:30P		✓												200615167 free product	
8. MW-5				1:15P		✓												200615168 free product	
Relinquished by		Date		Time		Comments													
Tami S Rice		8/31/06		11:55P															
Relinquished by		Date		Time		Comments													
Sample receiving custodian		Date		Time		Sample Receipt Comments													
La Jovan		8/31/06		12:00		Rec'd 1-18 each, 3-45 each TC T=3													

102 Oakdale Campus, #H101 OH
Iowa City, Iowa 52242-5002
319/335-4500 Fax: 319-335-4555

9-1-06 730
<http://www.uhl.uiowa.edu>

H.A. Wallace Building
900 E. Grand Ave., Des Moines, Iowa 50319-0034
515/281-5371 Fax: 515/243-1349

except Nothing
for MW-3, MW-5

Yellow - UHL Copy
Blue - Client Copy
27919/11-01
MD

M. D. Smith



Quantitation Report

Bedroc 5890 II TEH Analysis in H2O

SampleName = 200615161 IDNR

Injection Id = 3038

Vial # = 13

Inj. Vol = 2.00 ul

Run Time = 55.0 Minutes

Project Name = BEDROC TEH 2006 08

System Name = Bedroc Full

Result Id = 3091

Sample Set Name = 9 11 06 Diesel Cal Curve

Date Acquired = 9/12/2006 1:46:50 AM CDT

Date Processed: 9/12/2006

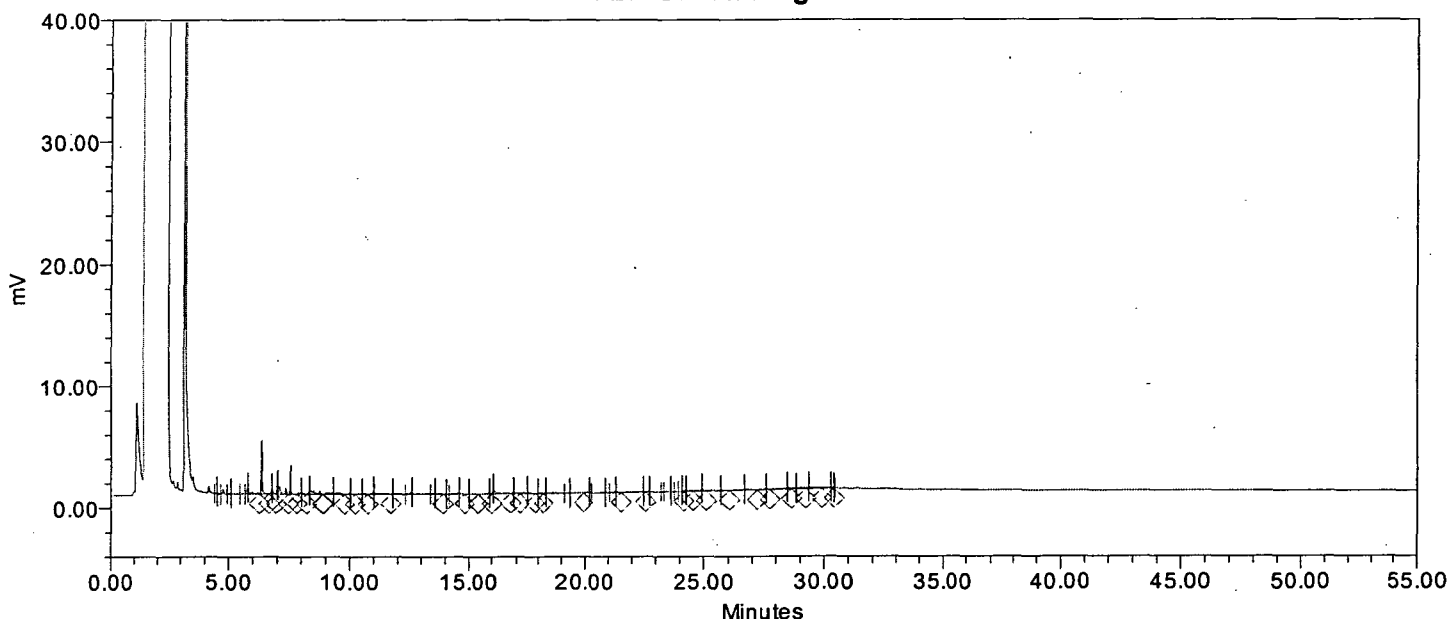
Acquired By = crodrigu

Acq. Method Set: diesel full

Processing Method = diesel

Report Method Name = Client Sample H2O

TEH Chromatogram



Group Peak Results

	Name	RT	Area	Height	TEH_Final_Result Water_ug/L	Quantitation_Limit Water_ug/L
1	diesel	4.53	86380	10674	15.1	122

Report Method: Client_Sample_H2O

Printed 8:52:01 AM | 9/12/2006

Page: 1 of 1

Final Extract Vol (mls)___ 1.04

TEH Daily_
Response Factor 6986

Sample Amount (mls)___ 850

Dilution___ 1



Quantitation Report

Bedroc 5890 II .TEH Analysis in H2O

SampleName = 200615162 IDNR

Injection Id = 3041

Vial # = 14

Inj. Vol = 2.00 ul

Run Time = 55.0 Minutes

Project Name = BEDROC TEH 2006 08

System Name = Bedroc Full

Result Id = 3092

Sample Set Name = 9 11 06 Diesel Cal Curve

Date Acquired = 9/12/2006 2:49:32 AM CDT

Date Processed: 9/12/2006

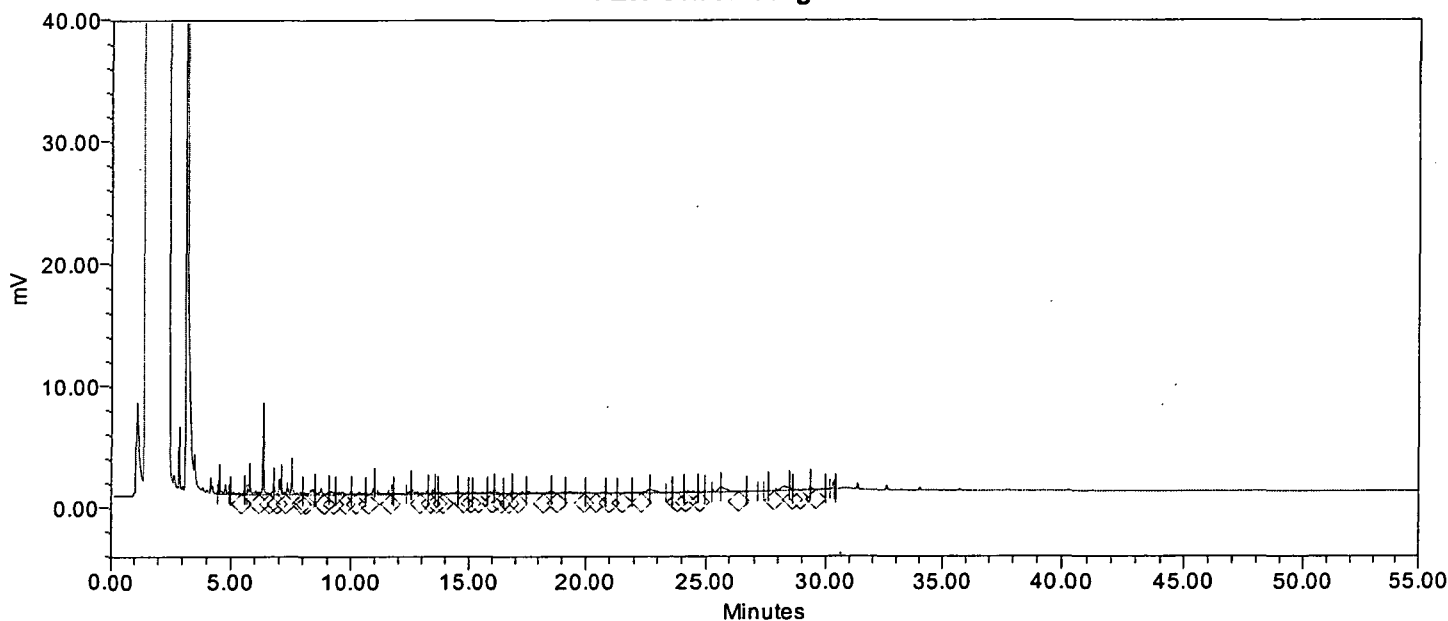
Acquired By = crodrigu

Acq. Method Set: diesel full

Processing Method = diesel

Report Method Name = Client Sample H2O

TEH Chromatogram



Group Peak Results

	Name	RT	Area	Height	TEH_Final_Result Water_ug/L	Quantitation_Limit Water_ug/L
1	diesel	4.53	199887	24644	32.3	113

Report Method: Client_Sample_H2O

Printed 8:52:05 AM | 9/12/2006

Page: 1 of 1

Final Extract Vol (mls)___ 1.04

TEH Daily_
Response Factor 6986

Sample Amount (mls)___ 920

Dilution___ 1



Quantitation Report

Bedroc 5890 II TEH Analysis in H2O

SampleName = 200615163 IDNR

Injection Id = 3044

Vial # = 15

Inj. Vol = 2.00 ul

Run Time = 55.0 Minutes

Project Name = BEDROC TEH 2006 08

System Name = Bedroc Full

Result Id = 3093

Sample Set Name = 9 11 06 Diesel Cal Curve

Date Acquired = 9/12/2006 3:52:22 AM CDT

Date Processed: 9/12/2006

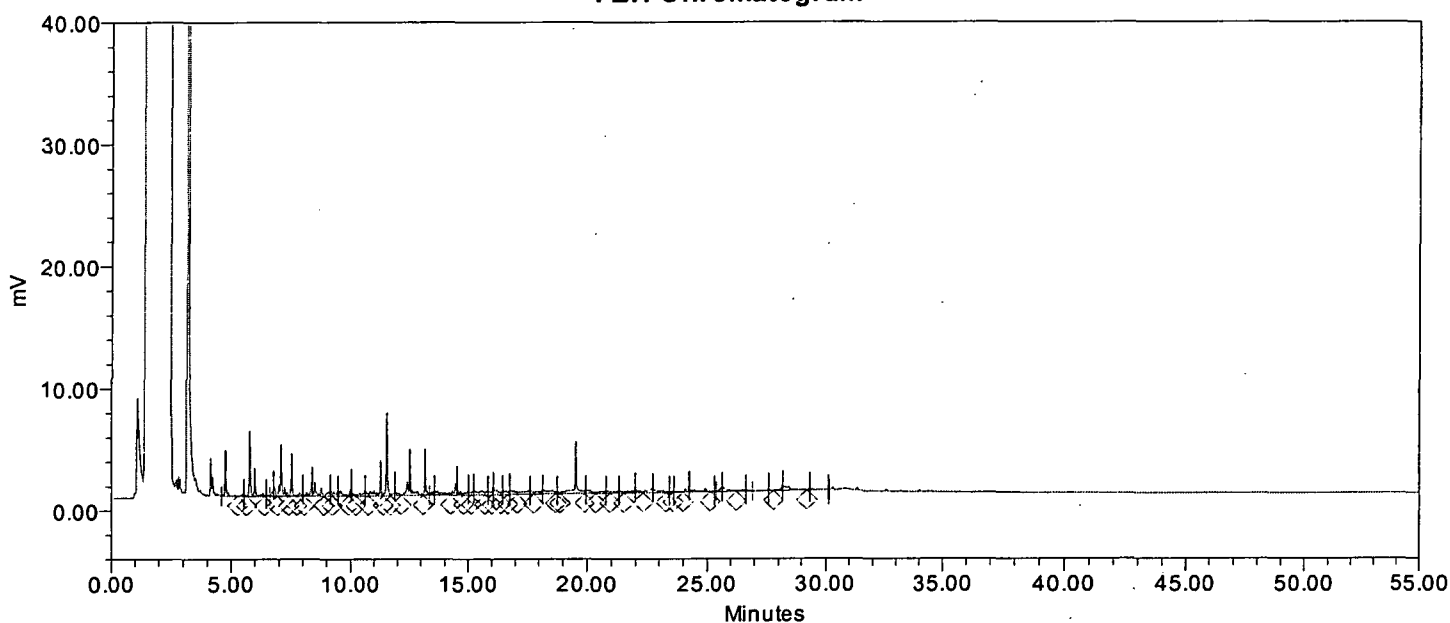
Acquired By = crodrigu

Acq. Method Set: diesel full

Processing Method = diesel

Report Method Name = Client Sample H2O

TEH Chromatogram



Group Peak Results

	Name	RT	Area	Height	TEH_Final_Result Water_ug/L	Quantitation_Limit Water_ug/L
1	diesel	4.77	335078	41844	46.5	97

Report Method: Client_Sample_H2O

Printed 8:52:10 AM | 9/12/2006

Page: 1 of 1

Final Extract Vol (mls)___ 0.93

TEH Daily_
Response Factor 6986

Sample Amount (mls)___ 960

Dilution___ 1



Quantitation Report

Bedroc 5890 II TEH Analysis in H2O

SampleName = 200615164 IDNR

Injection Id = 3047

Vial # = 16

Inj. Vol = 2.00 ul

Run Time = 55.0 Minutes

Project Name = BEDROC TEH 2006 08

System Name = Bedroc Full

Result Id = 3094

Sample Set Name = 9 11 06 Diesel Cal Curve

Date Acquired = 9/12/2006 4:55:10 AM CDT

Date Processed: 9/12/2006

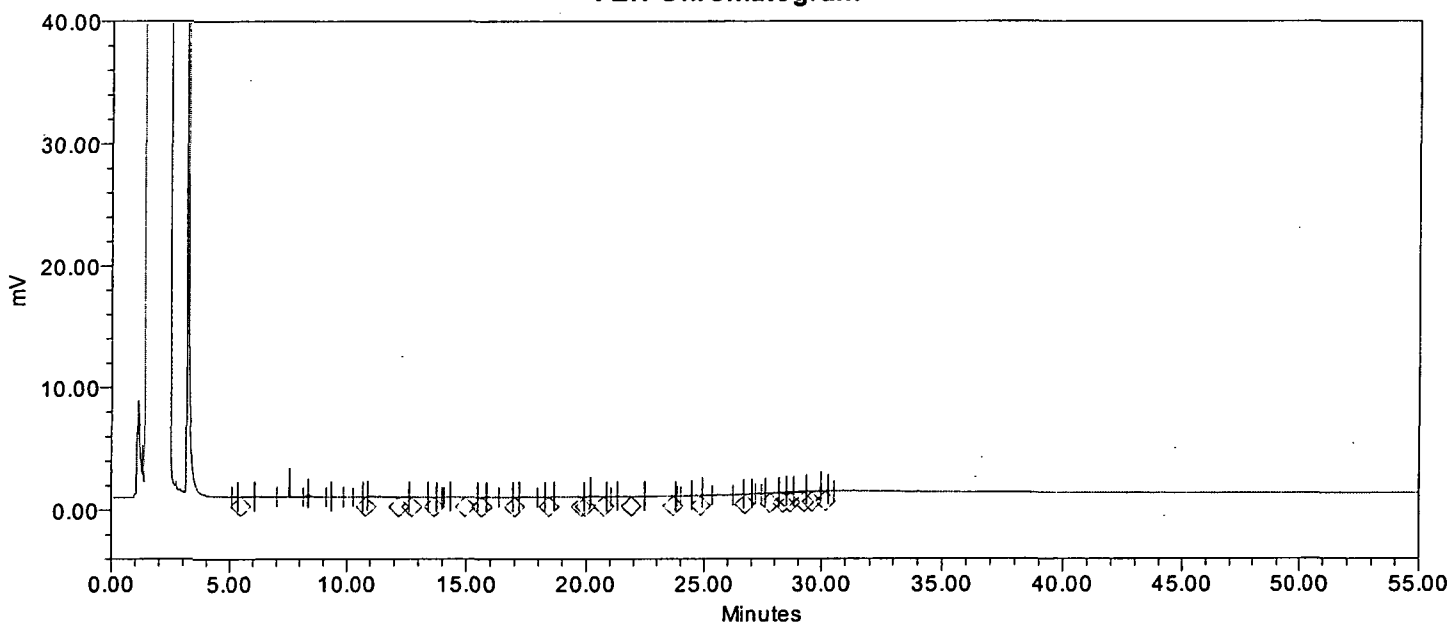
Acquired By = crodrigu

Acq. Method Set: diesel full

Processing Method = diesel

Report Method Name = Client Sample H2O

TEH Chromatogram



Group Peak Results

	Name	RT	Area	Height	TEH_Final_Result Water_ug/L	Quantitation_Limit Water_ug/L
1	diesel	5.36	34749	4231	5.4	108

Report Method: Client_Sample_H2O

Printed 8:52:15 AM I 9/12/2006

Page: 1 of 1

Final Extract Vol (mls)___ 1.08

TEH Daily_
Response Factor 6986

Sample Amount (mls)___ 1000

Dilution___ 1



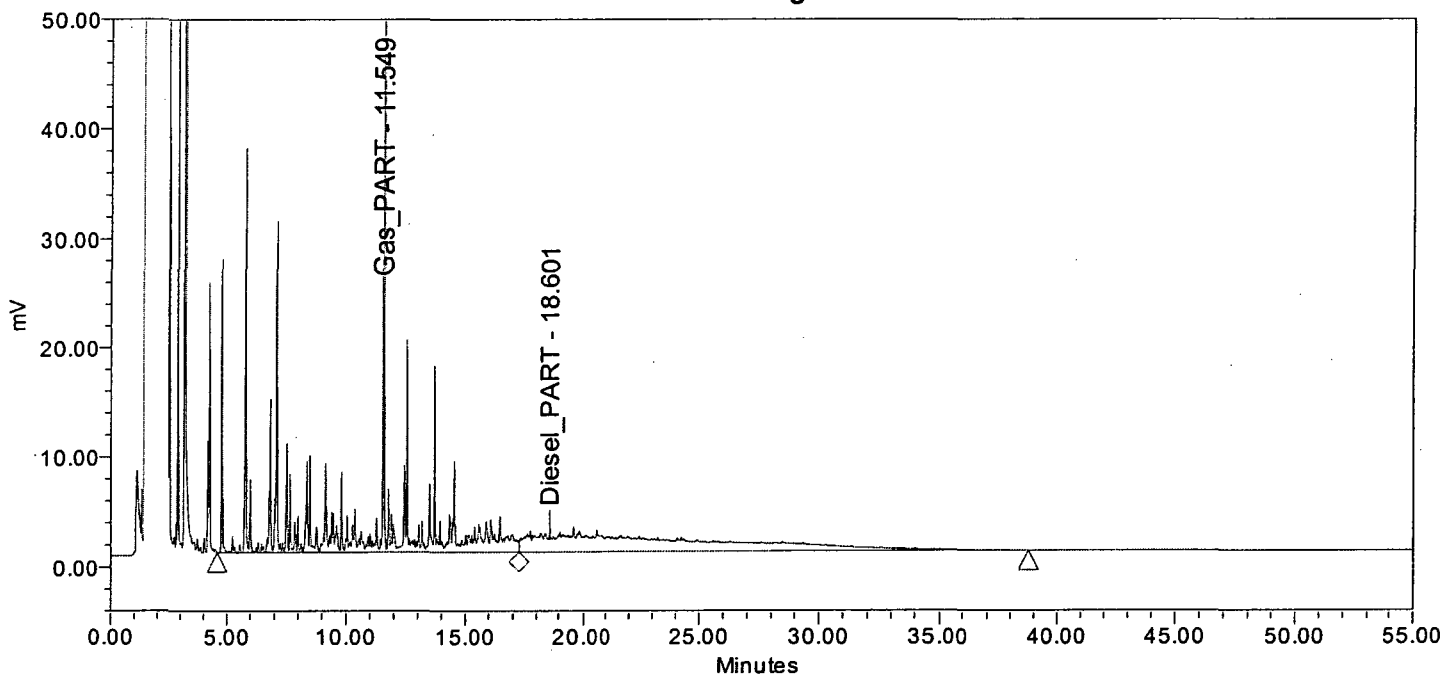
Separate parts

Bedroc 5890 II TEH Analysis

SampleName = 200615165 IDNR
Injection Id = 3050 Result Id = 3184
Calibration Id=
Vial # = 17 Inj. Vol = 2.00 ul
Run Time = 55.0 Minutes
Project Name = BEDROC TEH 2006 08
System Name = Bedroc Full

Sample Set Name = 9 11 06 Diesel Cal Curve
Date Acquired = 9/12/2006 5:57:59 AM CDT
Date Processed: 9/13/2006
Acquired By = crodrigu
Acq. Method Set: diesel full
Processing Method =
Report Method Name = Separate parts H2O

TEH Chromatogram



Peak Results

	Name	RT	Area	TEH Final Result Water ug/l
1	Other	3.00		
2	Gas_PART	11.55	1437904	197.3
3	Diesel_PART	18.60	863744	118.5

Diesel part

Final Extract Vol (mls) 0.93

TEH Daily
Response Factor 6986

Sample Amount (mls) 970



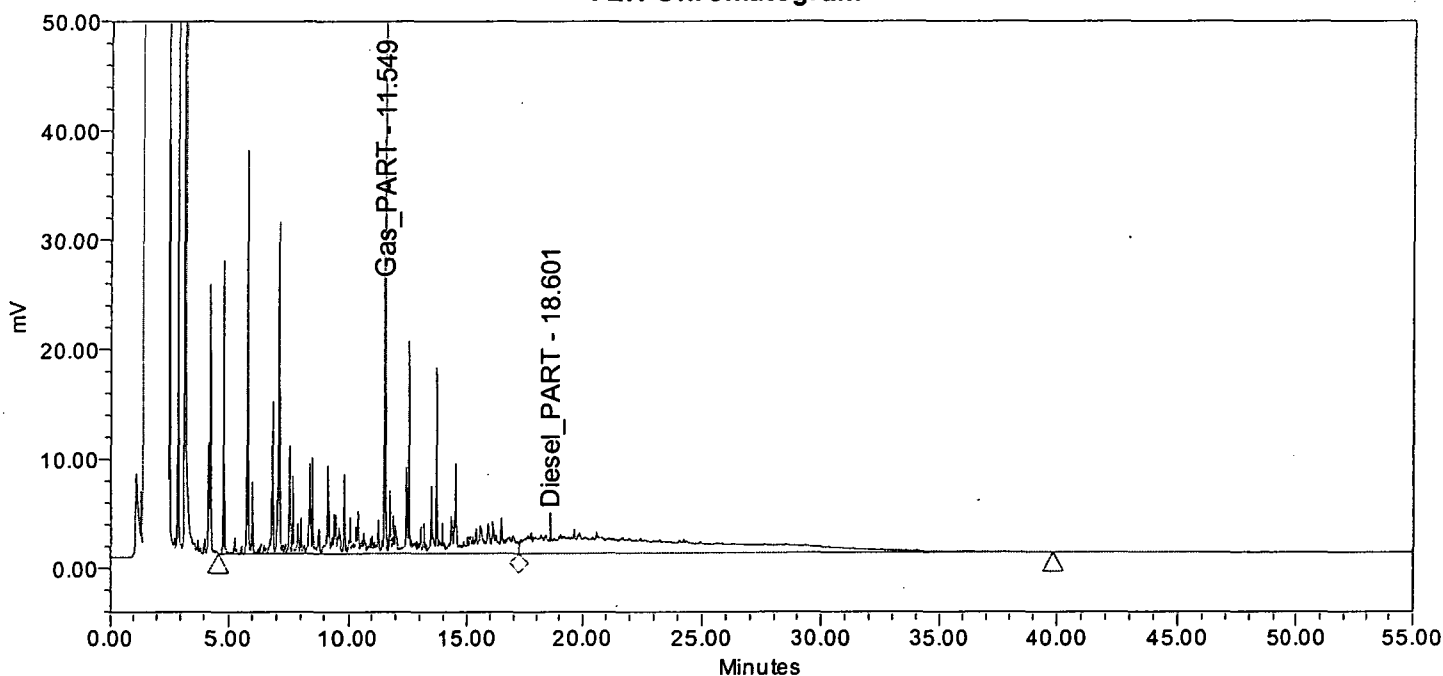
Separate parts

Bedroc 5890 II TEH Analysis

SampleName = 200615165 IDNR
Injection Id = 3050 Result Id = 3188
Calibration Id=
Vial # = 17 Inj. Vol = 2.00 ul
Run Time = 55.0 Minutes
Project Name = BEDROC TEH 2006 08
System Name = Bedroc Full

Sample Set Name = 9 11 06 Diesel Cal Curve
Date Acquired = 9/12/2006 5:57:59 AM CDT
Date Processed: 9/13/2006
Acquired By = crodrigu
Acq. Method Set: diesel full
Processing Method =
Report Method Name = Separate parts H2O

TEH Chromatogram



Peak Results

	Name	RT	Area	TEH Final Result Water ug/l
1	Other	3.00		
2	Gas_PART	11.55	1438738	250.1
3	Diesel_PART	18.60	874620	152.0

Gasoline part

Final Extract Vol (mls)___ 0.93

TEH Daily
Response Factor___ 5516

Sample Amount (mls)___ 970



Quantitation Report

Bedroc 5890 II TEH Analysis in H2O

SampleName = 200615166 IDNR

Injection Id = 3053

Vial # = 18

Inj. Vol = 2.00 ul

Run Time = 55.0 Minutes

Project Name = BEDROC TEH 2006 08

System Name = Bedroc Full

Result Id = 3096

Sample Set Name = 9 11 06 Diesel Cal Curve

Date Acquired = 9/12/2006 7:00:41 AM CDT

Date Processed: 9/12/2006

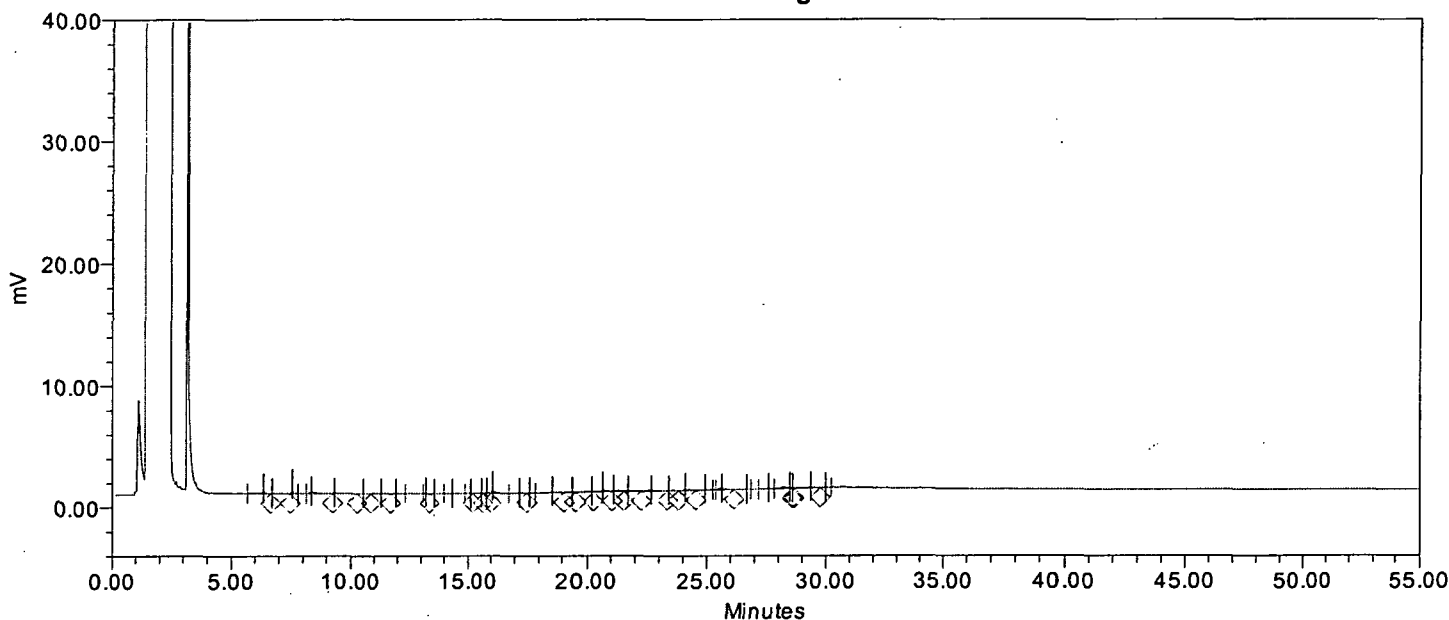
Acquired By = crodrigu

Acq. Method Set: diesel full

Processing Method = diesel

Report Method Name = Client Sample H2O

TEH Chromatogram



Group Peak Results

	Name	RT	Area	Height	TEH_Final_Result Water_ug/L	Quantitation_Limit Water_ug/L
1	diesel	6.36	46459	4831	6.7	100

Report Method: Client_Sample_H2O

Printed 8:52:22 AM | 9/12/2006

Page: 1 of 1

Final Extract Vol (mls)___ 0.93

TEH Daily_
Response Factor 6986

Sample Amount (mls)___ 930

Dilution___ 1



Quantitation Report

Bedroc 5890 II TEH Analysis in H2O

SampleName = 1/200 200615167 IDNR

Injection Id = 3017

Result Id = 3086

Vial # = 8

Inj. Vol = 2.00 ul

Run Time = 55.0 Minutes

Project Name = BEDROC TEH 2006 08

System Name = Bedroc Full

Sample Set Name = 9 11 06 Diesel Cal Curve

Date Acquired = 9/11/2006 6:29:48 PM CDT

Date Processed: 9/12/2006

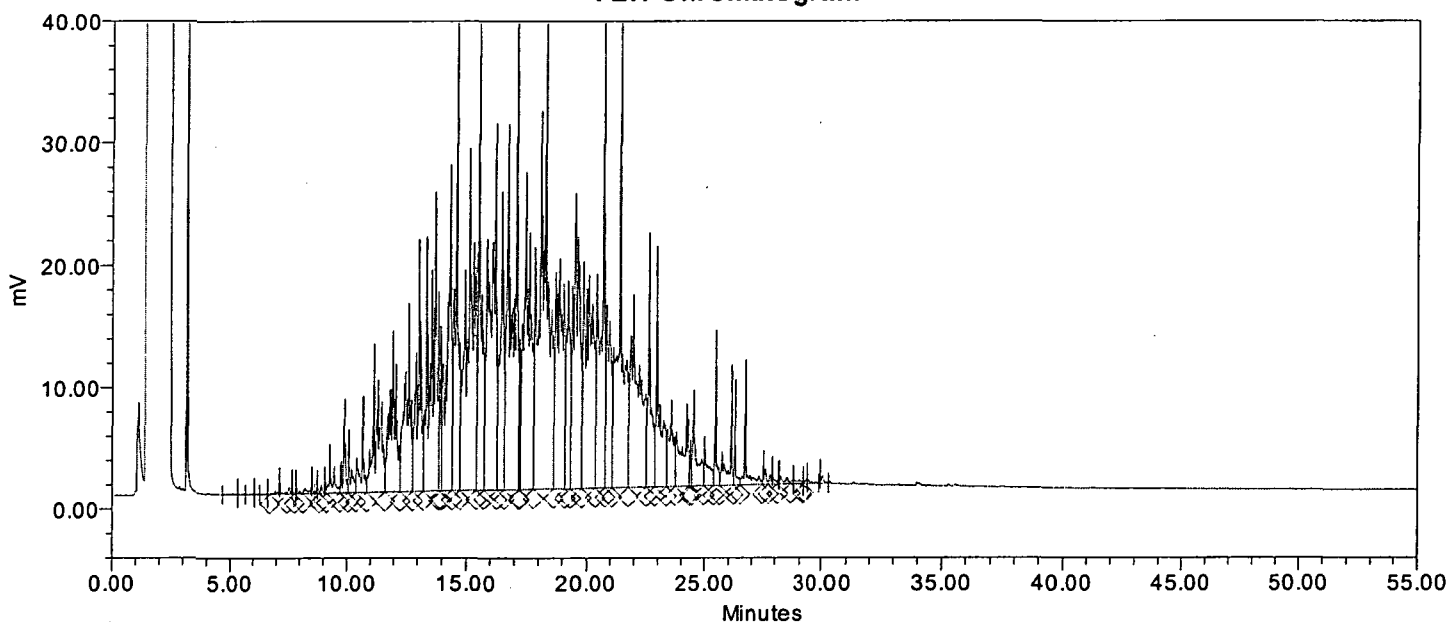
Acquired By = crodrigu

Acq. Method Set: diesel full

Processing Method = diesel

Report Method Name = Client Sample H2O

TEH Chromatogram



Group Peak Results

	Name	RT	Area	Height	TEH_Final_Result Water_ug/L	Quantitation_Limit Water_ug/L
1	diesel	5.35	9457136	695408	1077281.6	79579

Report Method: Client_Sample_H2O

Printed 8:51:01 AM | 9/12/2006

Page: 1 of 1

Final Extract Vol (mls)___ 3.78

TEH Daily_
Response Factor 6986

Sample Amount (mls)___ 950

Dilution___ 200



Quantitation Report

Bedroc 5890 II TEH Analysis in H2O

SampleName = 1/200 200615168 IDNR

Injection Id = 3023

Result Id = 3191

Vial # = 9

Inj. Vol = 2.00 ul

Run Time = 55.0 Minutes

Project Name = BEDROC TEH 2006 08

System Name = Bedroc Full

Sample Set Name = 9 11 06 Diesel Cal Curve

Date Acquired = 9/11/2006 8:34:32 PM CDT

Date Processed: 9/13/2006

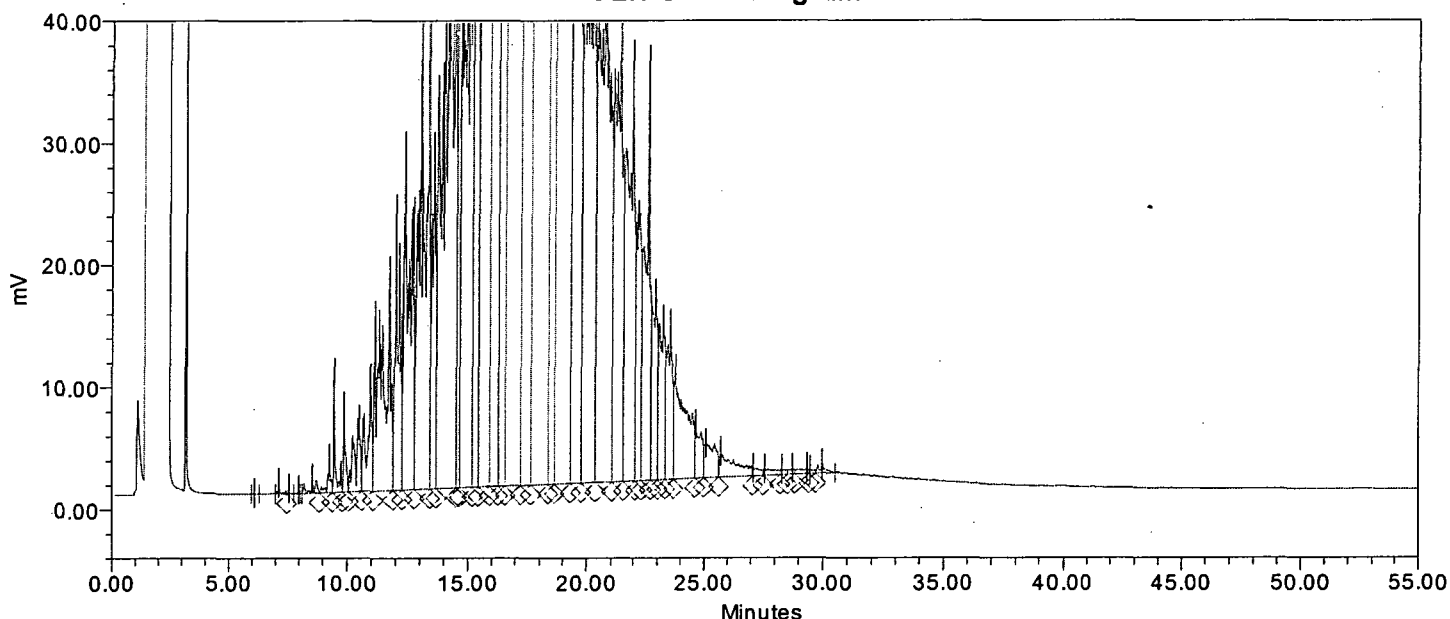
Acquired By = crodrigu

Acq. Method Set: diesel full

Processing Method = diesel

Report Method Name = Client Sample H2O

TEH Chromatogram



Group Peak Results

	Name	RT	Area	Height	TEH_Final_Result Water_ug/L	Quantitation_Limit Water_ug/L
1	diesel	6.09	26999738	1521954	772967008.3	20000000

Report Method: Client_Sample_H2O

Printed 10:08:17 AM 9/13/2006

Page: 1 of 1

Final Extract Vol (mls)___ 1.00

TEH Daily_
Response Factor 6986

Sample Amount (mls)___ 1

Dilution___ 200



CALIBRATION CHECK

Bedroc 5890 II TEH Analysis

SampleName = 1,000ug/mL DieselCHK=1/50 T0026C

Sample Set Name = 9 11 06 Diesel Cal Curve

Injection Id = 3014

Result Id = 3071

Date Acquired = 9/11/2006 5:27:25 PM CDT

Calibration Id= 3064

Date Processed: 9/12/2006

Vial # = 7

Inj. VoL = 2.00 ul

Acquired By = crodrigu

Run Time = 55.0 Minutes

Acq. Method Set: diesel full

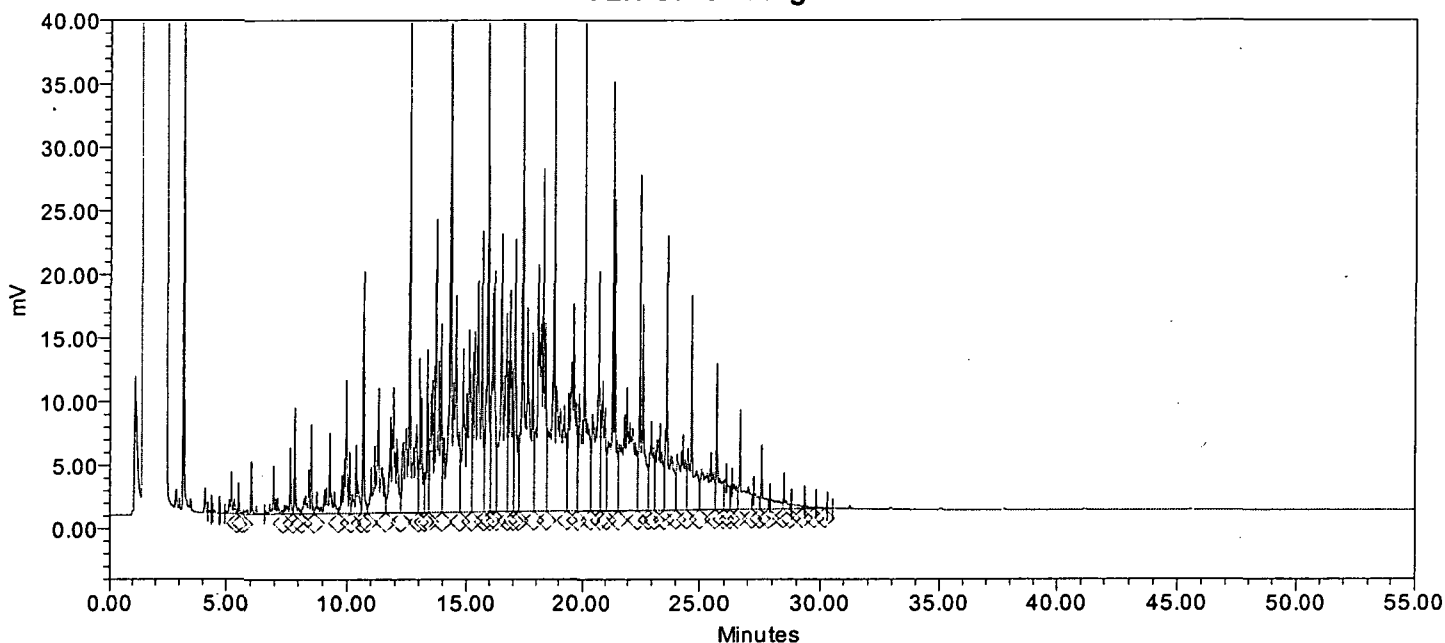
Project Name = BEDROC TEH 2006 08

Processing Method = diesel

System Name = Bedroc Full

Report Method Name = CAL CHECK

TEH Chromatogram



Group Peak Results

	Name	RT	Area	Height
1	diesel	4.72	6985924	764261

Report Method: CAL CHECK

Printed 8:46:15 AM 9/12/2006

Page: 1 of 1

Daily TEH

Response Factor 6986
B 6.501713e+003

Average Rf of

Current Curve 6502

Calculated
% of Avg Rf
Daily/Avg.

104%

CU 9/12/06



CALIBRATION CHECK

Bedroc 5890 II TEH Analysis

SampleName = Un Gas93 CheckStd 1/25 T0005F

Injection Id = 3103 Result Id = 3113

Calibration Id= 3111

Vial # = 20

Inj. Vol = 2.00 ul

Run Time = 55.0 Minutes

Project Name = BEDROC TEH 2006 08

System Name = Bedroc Full

Sample Set Name = 9 11 06 Diesel Cal Curve

Date Acquired = 9/12/2006 10:09:03 AM CDT

Date Processed: 9/12/2006

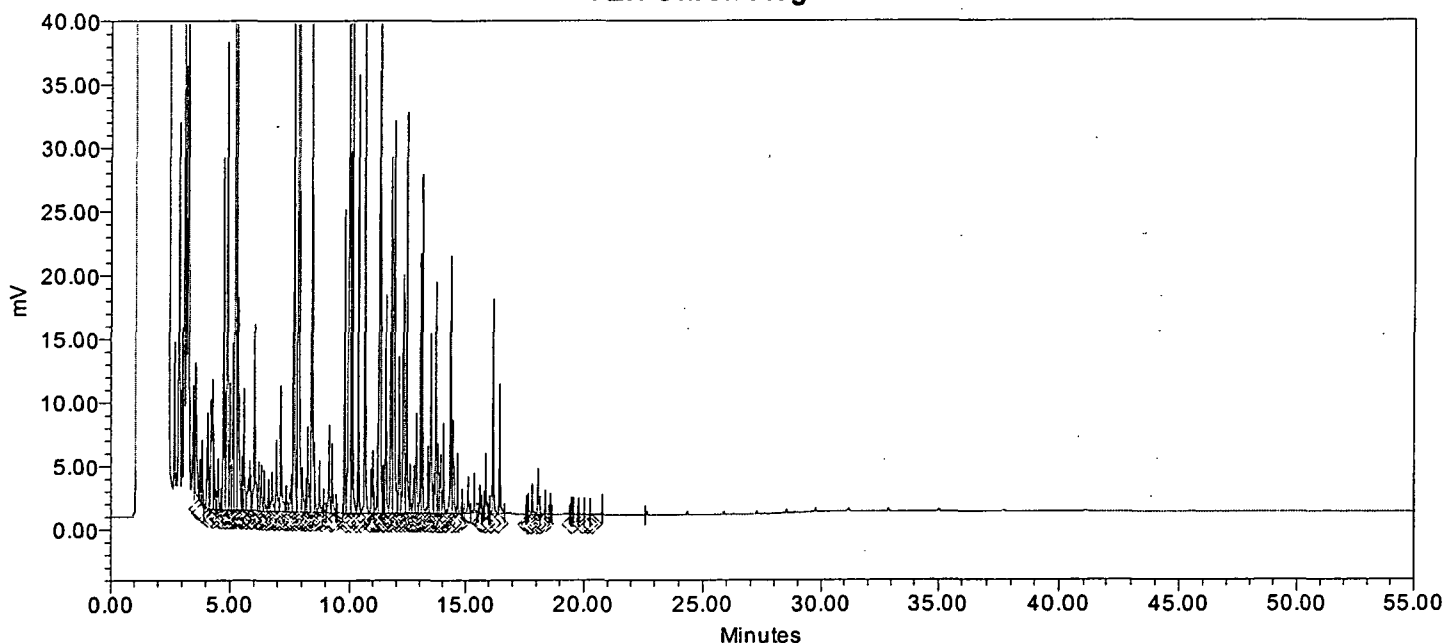
Acquired By = crodrigu

Acq. Method Set: diesel full

Processing Method = gasoline

Report Method Name = CAL CHECK

TEH Chromatogram



Group Peak Results

	Name	RT	Area	Height
1	gasoline	3.58	4661233	1492830

Report Method: CAL CHECK

Printed 11:50:09 AM 9/12/2006

Page: 1 of 1

Daily TEH

Response Factor 5827
B 0.000000e+000

Average Rf of

Current Curve 0

Calculated
% of Avg Rf
Daily/Avg.

120 %

cu 9/12/06

Data Path : J:\7305\DATA\
 Data File : 9249V11.D
 Acq On : 6 Sep 2006 12:52 pm
 Operator : LL
 Sample : 200615161 IDNR CONT SITES
 Misc : MW-6 10ML + 1UL SSIS V1843E
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 06 13:35:42 2006
 Quant Method : J:\7305\METHODS\WTR8260.M
 Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
 QLast Update : Wed Sep 06 08:27:19 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.89	128	97008	50.00	ug/L	0.00
25) 1,4-Difluorobenzene	5.57	114	826463	50.00	ug/L	0.00
42) Chlorobenzene-d5	8.63	82	410373	50.00	ug/L	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	4.61	65	177451	52.06	ug/L	0.00
Spiked Amount	50.000	Range	78 - 132	Recovery	=	104.12%
34) Toluene-d8	7.31	98	997930	49.84	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	99.68%
51) Bromofluorobenzene	9.78	95	344830	48.73	ug/L	0.00
Spiked Amount	50.000	Range	75 - 117	Recovery	=	97.46%

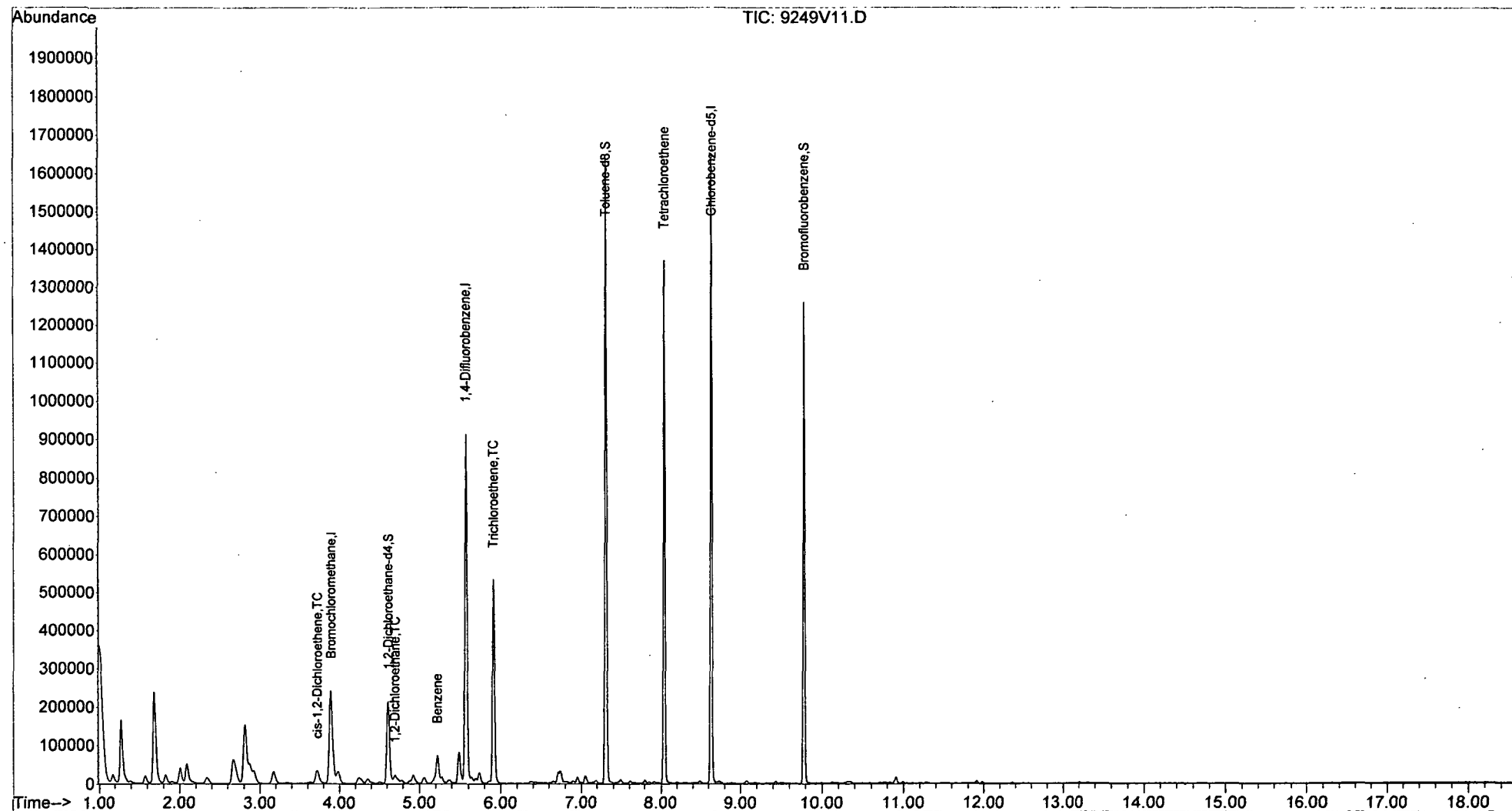
Target Compounds

						Qvalue
16) cis-1,2-Dichloroethene	3.72	96	23399	4.56	ug/L	91
20) 1,2-Dichloroethane	4.70	62	16657	4.11	ug/L	100
24) Benzene	5.23	78	60995	3.10	ug/L	95
28) Trichloroethene	5.91	130	190450	33.90	ug/L	96
40) Tetrachloroethene	8.04	164	277825	58.16	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\7305\DATA\
Data File : 9249V11.D
Acq On : 6 Sep 2006 12:52 pm
Operator : LL
Sample : 200615161 IDNR CONT SITES
Misc : MW-6 10ML + 1UL SSIS V1843E
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 06 13:35:42 2006
Quant Method : J:\7305\METHODS\WTR8260.M
Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
QLast Update : Wed Sep 06 08:27:19 2006
Response via : Initial Calibration



Data Path : J:\7305\DATA\
 Data File : 9249V12.D
 Acq On : 6 Sep 2006 1:21 pm
 Operator : LL
 Sample : 200615162 IDNR CONT SITES
 Misc : MW-13 10ML + 1UL SSIS V1843E
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 06 13:45:04 2006
 Quant Method : J:\7305\METHODS\WTR8260.M
 Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
 QLast Update : Wed Sep 06 08:27:19 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	3.89	128	95649	50.00	ug/L	0.00
25) 1,4-Difluorobenzene	5.57	114	819468	50.00	ug/L	0.00
42) Chlorobenzene-d5	8.64	82	411687	50.00	ug/L	0.00

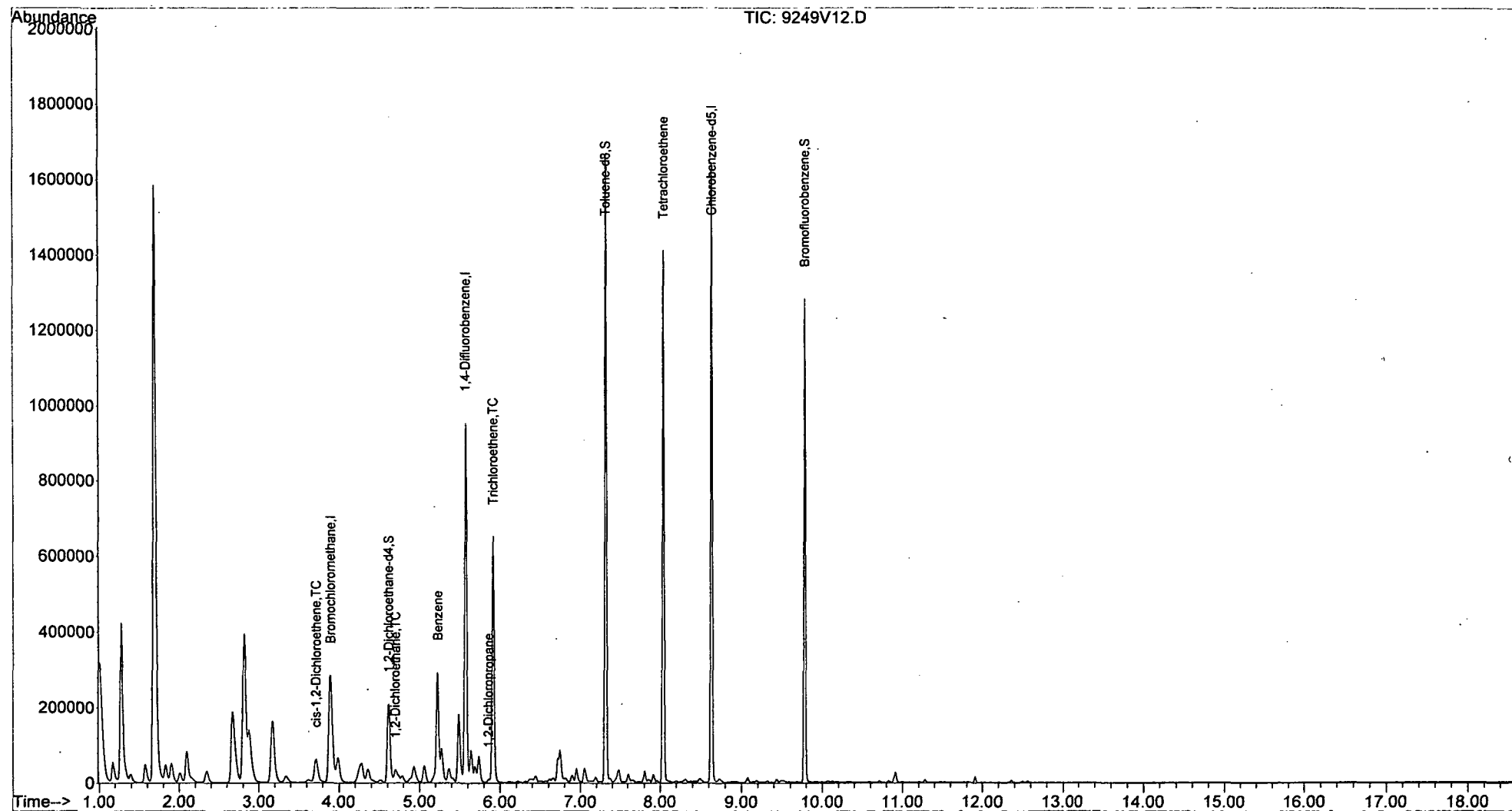
System Monitoring Compounds						
19) 1,2-Dichloroethane-d4	4.61	65	174489	51.92	ug/L	0.00
Spiked Amount	50.000	Range	78 - 132	Recovery	=	103.84%
34) Toluene-d8	7.31	98	1002962	50.52	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	101.04%
51) Bromofluorobenzene	9.78	95	351060	49.45	ug/L	0.00
Spiked Amount	50.000	Range	75 - 117	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) cis-1,2-Dichloroethene	3.72	96	44238	8.75	ug/L	92
20) 1,2-Dichloroethane	4.70	62	26902	6.74	ug/L	98
24) Benzene	5.23	78	278292	14.35	ug/L	95
27) 1,2-Dichloropropane	5.86	63	2866	0.64	ug/L	94
28) Trichloroethene	5.91	130	230699	41.42	ug/L	96
40) Tetrachloroethene	8.04	164	283388	59.84	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\7305\DATA\
Data File : 9249V12.D
Acq On : 6 Sep 2006 1:21 pm
Operator : LL
Sample : 200615162 IDNR CONT SITES
Misc : MW-13 10ML + 1UL SSIS V1843E
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 06 13:45:04 2006
Quant Method : J:\7305\METHODS\WTR8260.M
Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
QLast Update : Wed Sep 06 08:27:19 2006
Response via : Initial Calibration



Data Path : J:\7305\DATA\
 Data File : 9249V13.D
 Acq On : 6 Sep 2006 1:50 pm
 Operator : LL
 Sample : 200615163 IDNR CONT SITES
 Misc : MW-12 10ML + 1UL SSIS V1843E
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 06 14:13:18 2006
 Quant Method : J:\7305\METHODS\WTR8260.M
 Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
 QLast Update : Wed Sep 06 08:27:19 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	3.89	128	98362	50.00	ug/L	0.00
25) 1,4-Difluorobenzene	5.57	114	833619	50.00	ug/L	0.00
42) Chlorobenzene-d5	8.64	82	414709	50.00	ug/L	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	4.61	65	174948	50.62	ug/L	0.00
Spiked Amount	50.000	Range	78 - 132	Recovery	=	101.24%
34) Toluene-d8	7.31	98	1017909	50.40	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	100.80%
51) Bromofluorobenzene	9.78	95	361947	50.62	ug/L	0.00
Spiked Amount	50.000	Range	75 - 117	Recovery	=	101.24%

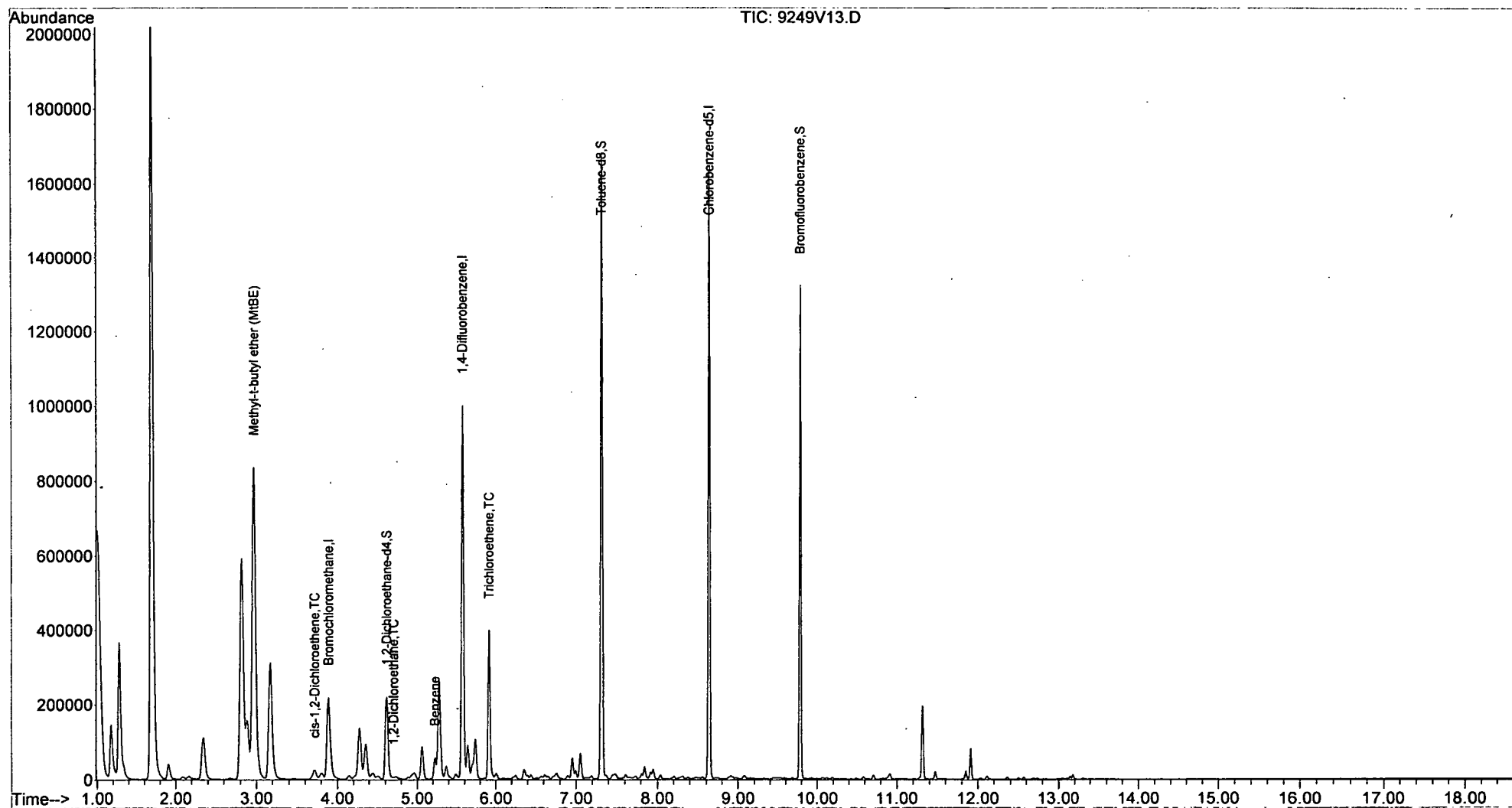
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
13) Methyl-t-butyl ether (MtBE)	2.97	73	1433509	161.56	ug/L	88
16) cis-1,2-Dichloroethene	3.72	96	16937	3.26	ug/L	90
20) 1,2-Dichloroethane	4.70	62	2930	0.71	ug/L	93
24) Benzene	5.22	78	51922	2.60	ug/L	92
28) Trichloroethene	5.91	130	141447	24.96	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\7305\DATA\
Data File : 9249V13.D
Acq On : 6 Sep 2006 1:50 pm
Operator : LL
Sample : 200615163 IDNR CONT SITES
Misc : MW-12 10ML + 1UL SSIS V1843E
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 06 14:13:18 2006
Quant Method : J:\7305\METHODS\WTR8260.M
Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
QLast Update : Wed Sep 06 08:27:19 2006
Response via : Initial Calibration



Data Path : J:\7305\DATA\
 Data File : 9249V14.D
 Acq On : 6 Sep 2006 2:18 pm
 Operator : LL
 Sample : 200615164 IDNR CONT SITES
 Misc : MW-4 10ML + 1UL SSIS V1843E
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 06 14:43:04 2006
 Quant Method : J:\7305\METHODS\WTR8260.M
 Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
 QLast Update : Wed Sep 06 08:27:19 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	3.89	128	99708	50.00	ug/L	0.00
25) 1,4-Difluorobenzene	5.57	114	844489	50.00	ug/L	0.00
42) Chlorobenzene-d5	8.64	82	411319	50.00	ug/L	0.00

System Monitoring Compounds

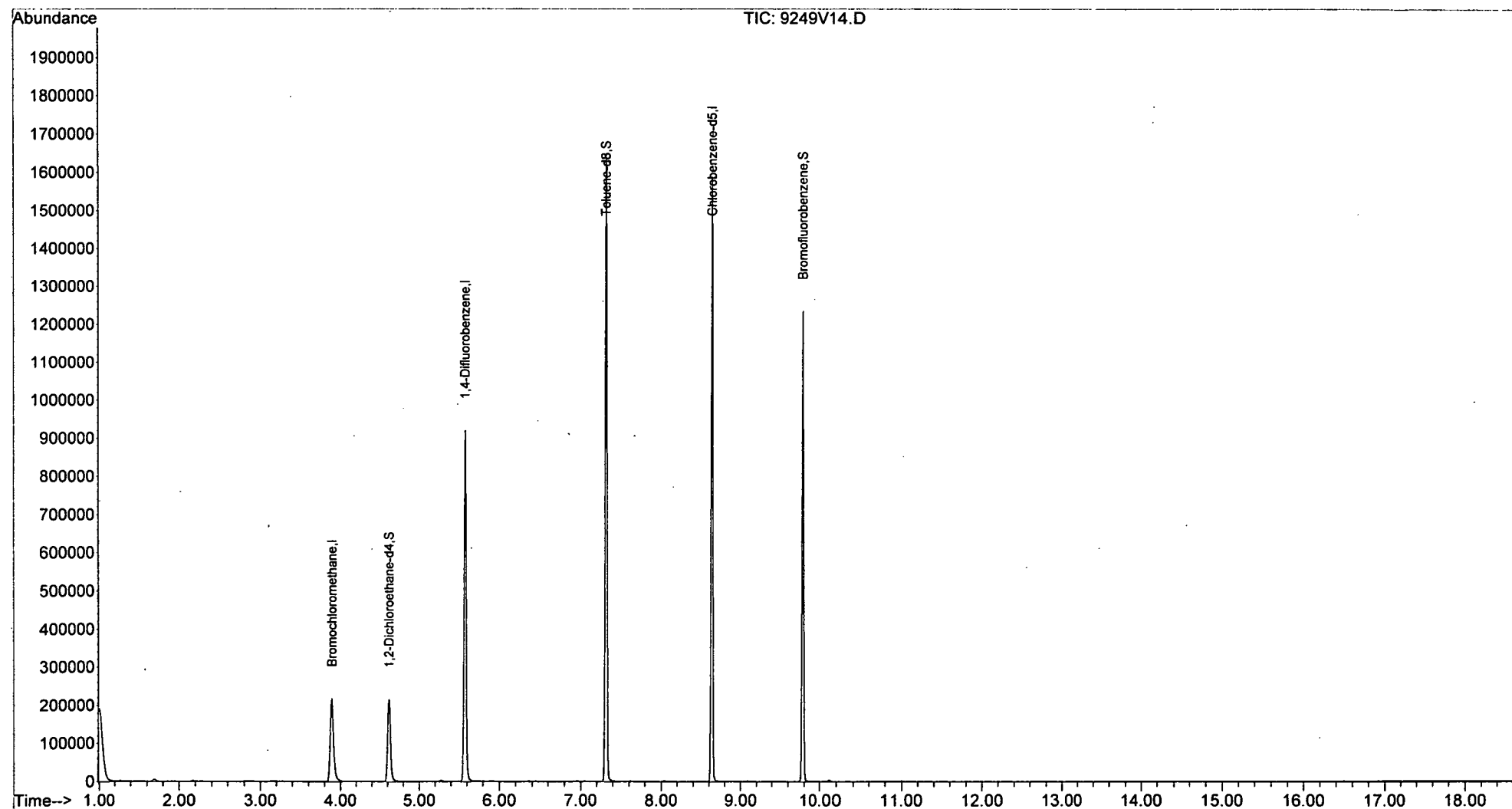
19) 1,2-Dichloroethane-d4	4.61	65	176331	50.33	ug/L	0.00
Spiked Amount	50.000	Range	78 - 132	Recovery	=	100.66%
34) Toluene-d8	7.31	98	1011473	49.44	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	98.88%
51) Bromofluorobenzene	9.78	95	341737	48.18	ug/L	0.00
Spiked Amount	50.000	Range	75 - 117	Recovery	=	96.36%

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\7305\DATA\
Data File : 9249V14.D
Acq On : 6 Sep 2006 2:18 pm
Operator : LL
Sample : 200615164 IDNR CONT SITES
Misc : MW-4 10ML + 1UL SSIS V1843E
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 06 14:43:04 2006
Quant Method : J:\7305\METHODS\WTR8260.M
Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
QLast Update : Wed Sep 06 08:27:19 2006
Response via : Initial Calibration



Data Path : J:\7305\DATA\
 Data File : 9249V15.D
 Acq On : 6 Sep 2006 2:47 pm
 Operator : LL
 Sample : 200615165 IDNR CONT SITES
 Misc : MW-8 10ML + 1UL SSIS V1843E
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 06 15:12:34 2006
 Quant Method : J:\7305\METHODS\WTR8260.M
 Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
 QLast Update : Wed Sep 06 08:27:19 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.90	128	98809	50.00	ug/L	0.00
25) 1,4-Difluorobenzene	5.57	114	849842	50.00	ug/L	0.00
42) Chlorobenzene-d5	8.64	82	434190	50.00	ug/L	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	4.61	65	176187	50.74	ug/L	0.00
Spiked Amount	50.000	Range	78 - 132	Recovery	=	101.48%
34) Toluene-d8	7.31	98	1047232	50.86	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	101.72%
51) Bromofluorobenzene	9.78	95	391536	52.30	ug/L	0.00
Spiked Amount	50.000	Range	75 - 117	Recovery	=	104.60%

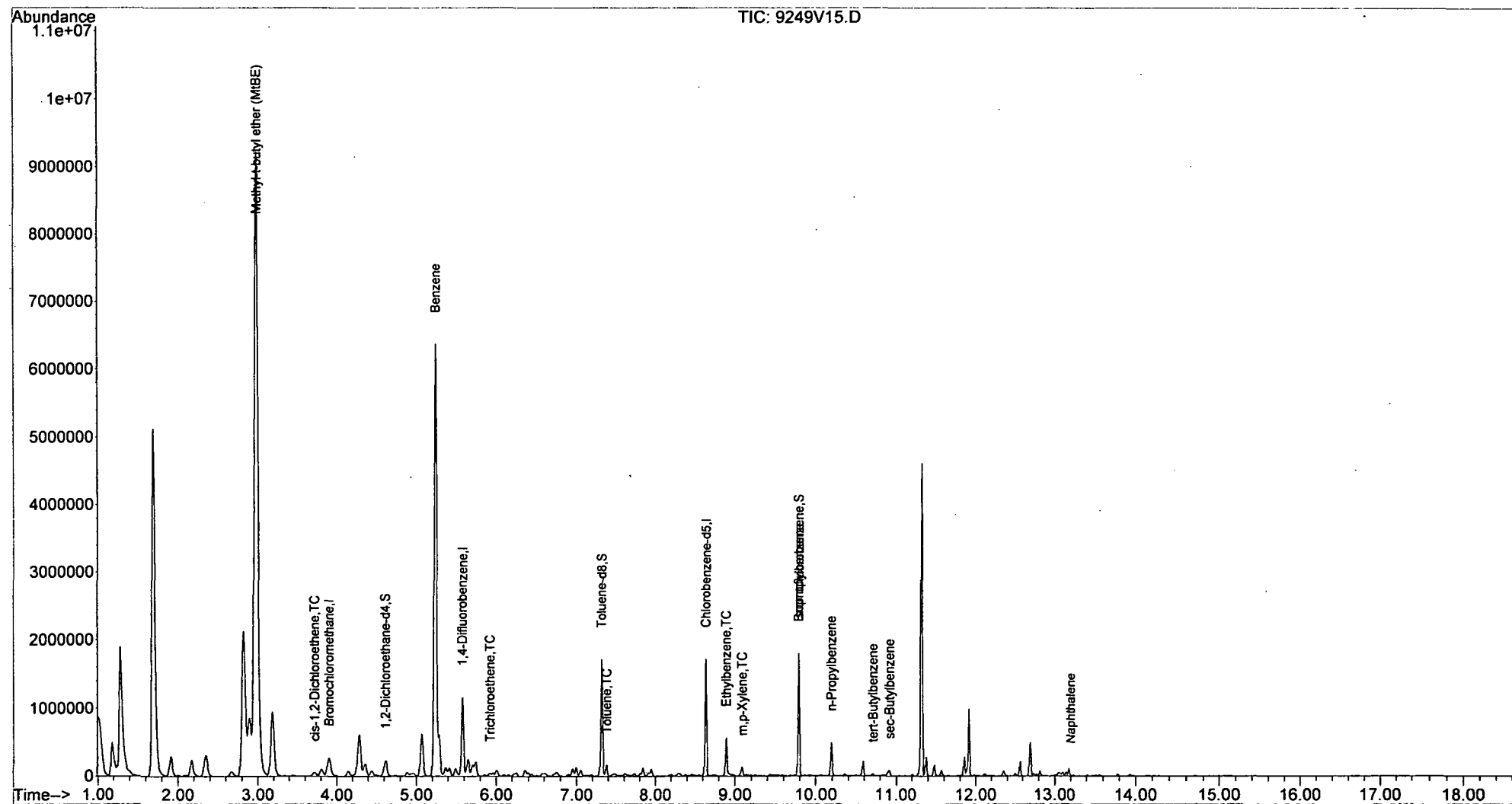
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
13) Methyl-t-butyl ether (MtBE)	2.98	73	16013488	1796.57	ug/L	88
16) cis-1,2-Dichloroethene	3.72	96	37025	7.09	ug/L	91
24) Benzene	5.24	78	6818285	340.41	ug/L	95
28) Trichloroethene	5.92	130	9586	1.66	ug/L	99
35) Toluene	7.37	91	97377	4.19	ug/L	98
44) Ethylbenzene	8.89	106	111866	12.94	ug/L	94
46) m,p-Xylene	9.09	91	65383	3.27	ug/L	# 52
52) Isopropylbenzene	9.78	105	220775	9.62	ug/L	96
54) n-Propylbenzene	10.19	91	335908	11.78	ug/L	96
58) tert-Butylbenzene	10.71	119	12321	0.76	ug/L	91
60) sec-Butylbenzene	10.91	105	46104	1.98	ug/L	# 25
68) Naphthalene	13.20	128	4645	1.22	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\7305\DATA\
Data File : 9249V15.D
Acq On : 6 Sep 2006 2:47 pm
Operator : LL
Sample : 200615165 IDNR CONT SITES
Misc : MW-8 10ML + 1UL SSIS V1843E
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 06 15:12:34 2006
Quant Method : J:\7305\METHODS\WTR8260.M
Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
QLast Update : Wed Sep 06 08:27:19 2006
Response via : Initial Calibration



Data Path : J:\7305\DATA\
 Data File : 9249V19.D
 Acq On : 6 Sep 2006 4:42 pm
 Operator : LL
 Sample : 200615165 IDNR CONT SITES
 Misc : MW-8 10ML OF A 1:20 + 1UL SSIS V1843E
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 07 06:31:32 2006
 Quant Method : J:\7305\METHODS\WTR8260.M
 Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
 QLast Update : Wed Sep 06 08:27:19 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.90	128	108340	50.00	ug/L	0.00
25) 1,4-Difluorobenzene	5.57	114	912030	50.00	ug/L	0.00
42) Chlorobenzene-d5	8.63	82	445575	50.00	ug/L	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	4.62	65	185768	48.80	ug/L	0.00
Spiked Amount	50.000	Range	78 - 132	Recovery	=	97.60%
34) Toluene-d8	7.32	98	1103388	49.94	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	99.88%
51) Bromofluorobenzene	9.78	95	380137	49.48	ug/L	0.00
Spiked Amount	50.000	Range	75 - 117	Recovery	=	98.96%

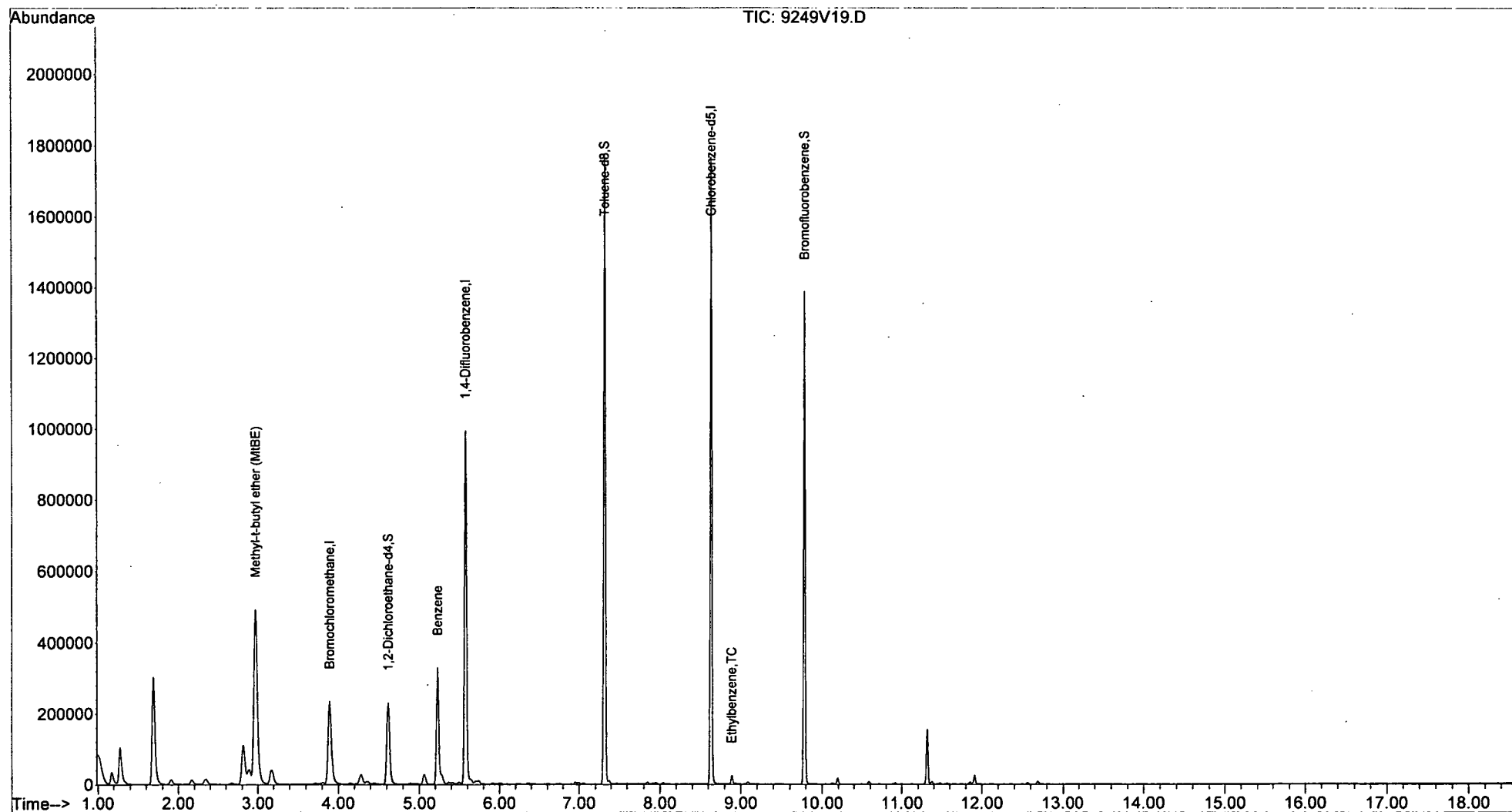
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
13) Methyl-t-butyl ether (MtBE)	2.97	73	850937	87.07	ug/L	1700 88
24) Benzene	5.23	78	332276	15.13	ug/L	300 94
44) Ethylbenzene	8.89	106	4755	0.54	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\7305\DATA\
Data File : 9249V19.D
Acq On : 6 Sep 2006 4:42 pm
Operator : LL
Sample : 200615165 IDNR CONT SITES
Misc : MW-8 10ML OF A 1:20 + 1UL SSIS V1843E
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 07 06:31:32 2006
Quant Method : J:\7305\METHODS\WTR8260.M
Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
QLast Update : Wed Sep 06 08:27:19 2006
Response via : Initial Calibration



Data Path : J:\7305\DATA\
 Data File : 9249V17.D
 Acq On : 6 Sep 2006 3:44 pm
 Operator : LL
 Sample : 200615166 IDNR CONT SITES
 Misc : MW-1 10ML + 1UL SSIS V1843E
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 07 06:29:48 2006

Quant Method : J:\7305\METHODS\WTR8260.M

Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge

QLast Update : Wed Sep 06 08:27:19 2006

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.90	128	116074	50.00	ug/L	0.00
25) 1,4-Difluorobenzene	5.57	114	964789	50.00	ug/L	0.00
42) Chlorobenzene-d5	8.64	82	466558	50.00	ug/L	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	4.62	65	195363	47.90	ug/L	0.00
Spiked Amount	50.000	Range	78 - 132	Recovery	=	95.80%
34) Toluene-d8	7.31	98	1157414	49.52	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	99.04%
51) Bromofluorobenzene	9.78	95	390869	48.59	ug/L	0.00
Spiked Amount	50.000	Range	75 - 117	Recovery	=	97.18%

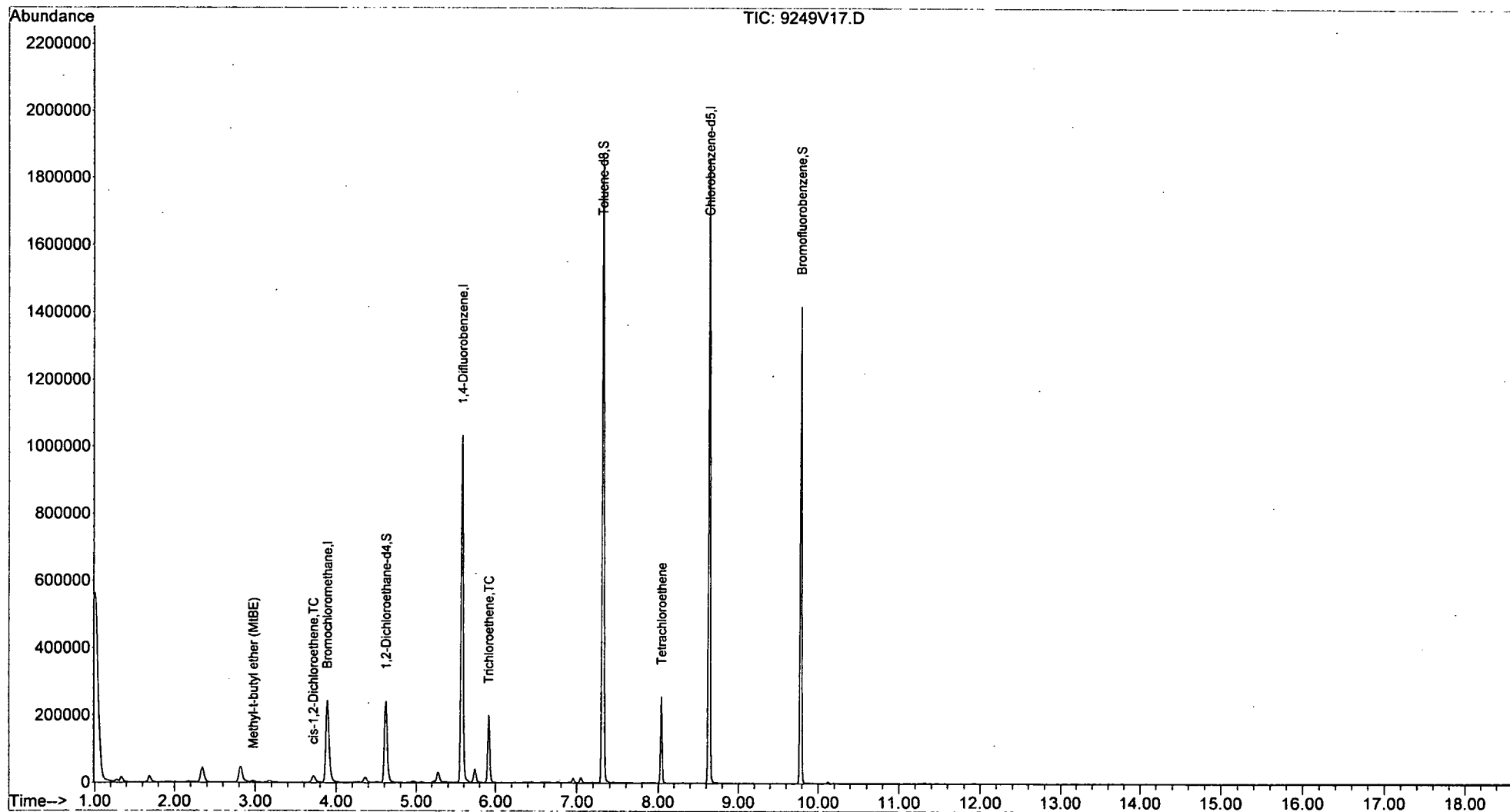
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
13) Methyl-t-butyl ether (MtBE)	2.97	73	6880	0.66	ug/L	# 72
16) cis-1,2-Dichloroethene	3.73	96	13688	2.23	ug/L	93
28) Trichloroethene	5.91	130	73046	11.14	ug/L	94
40) Tetrachloroethene	8.04	164	53498	9.59	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\7305\DATA\
Data File : 9249V17.D
Acq On : 6 Sep 2006 3:44 pm
Operator : LL
Sample : 200615166 IDNR CONT SITES
Misc : MW-1 10ML + 1UL SSIS V1843E
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 07 06:29:48 2006
Quant Method : J:\7305\METHODS\WTR8260.M
Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
QLast Update : Wed Sep 06 08:27:19 2006
Response via : Initial Calibration



Data Path : J:\7305\DATA\
 Data File : 9249S03.D
 Acq On : 6 Sep 2006 8:08 am
 Operator : LL
 Sample : VSTD050 CONT CAL 8260/OA1
 Misc : 10ML OF 50ML + 10UL V1847C + 1UL SSIS V1843E
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 06 08:30:18 2006
 Quant Method : J:\7305\METHODS\WTR8260.M
 Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
 QLast Update : Wed Sep 06 07:24:59 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.89	128	122417	50.00	ug/L	0.00
25) 1,4-Difluorobenzene	5.57	114	1022585	50.00	ug/L	0.00
42) Chlorobenzene-d5	8.64	82	512415	50.00	ug/L	0.00

System Monitoring Compounds						
19) 1,2-Dichloroethane-d4	4.62	65	203842	47.39	ug/L	0.00
Spiked Amount 50.000	Range 78	- 132	Recovery	=	94.78%	
34) Toluene-d8	7.31	98	1211978	48.92	ug/L	0.00
Spiked Amount 50.000	Range 85	- 114	Recovery	=	97.84%	
51) Bromofluorobenzene	9.78	95	460490	52.12	ug/L	0.00
Spiked Amount 50.000	Range 75	- 117	Recovery	=	104.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.07	85	408134	49.11	ug/L	98
3) Chloromethane	1.16	50	291564	48.13	ug/L	96
4) Vinyl chloride	1.24	62	307615	50.59	ug/L	97
5) Bromomethane	1.43	94	213744	50.68	ug/L	95
6) Chloroethane	1.50	64	177526	48.50	ug/L	99
7) Trichlorofluoromethane	1.81	101	443761	49.54	ug/L	94
8) Acetone	1.91	43	25090	44.46	ug/L	76
9) 1,1-Dichloroethene	2.15	96	273966	50.91	ug/L #	87
10) Methylene chloride	2.27	84	275421	48.74	ug/L #	87
11) Carbon disulfide	2.37	76	934503	49.55	ug/L	98
12) trans-1,2-Dichloroethene	2.82	96	305232	50.19	ug/L	89
13) Methyl-t-butyl ether (MtBE)	2.97	73	527067	47.73	ug/L	87
14) 1,1-Dichloroethane	3.06	63	475637	48.48	ug/L	100
15) 2-Butanone	3.61	43	44160	46.59	ug/L	93
16) cis-1,2-Dichloroethene	3.72	96	325087	50.24	ug/L	89
17) Chloroform	3.98	83	487858	48.68	ug/L	99
18) 2,2-Dichloropropane	4.04	77	431508	49.93	ug/L #	81
20) 1,2-Dichloroethane	4.70	62	241708	47.31	ug/L	96
21) 1,1,1-Trichloroethane	4.79	97	466752	49.48	ug/L	93
22) 1,1-Dichloropropene	5.02	75	399779	49.69	ug/L	89
23) Carbon tetrachloride	5.16	117	436585	49.51	ug/L	99
24) Benzene	5.23	78	1218952	49.12	ug/L	94
26) Dibromomethane	5.80	93	126085	48.03	ug/L	89
27) 1,2-Dichloropropane	5.86	63	270418	48.43	ug/L	96
28) Trichloroethene	5.92	130	357363	51.42	ug/L	94
29) Bromodichloromethane	5.96	83	375704	48.72	ug/L	100
30) cis-1,3-Dichloropropene	6.65	75	439374	49.57	ug/L	99
31) 4-Methyl-2-pentanone (MIBK)	6.82	43	105963	46.66	ug/L	84
32) trans-1,3-Dichloropropene	7.09	75	323592	48.67	ug/L	99
33) 1,1,2-Trichloroethane	7.20	97	189486	48.83	ug/L	96
35) Toluene	7.38	91	1378713	49.30	ug/L	99
36) 1,3-Dichloropropane	7.43	76	320285	47.69	ug/L #	82
37) Dibromochloromethane	7.63	129	265291	49.95	ug/L	99
38) 2-Hexanone	7.67	43	69538	47.47	ug/L	95
39) 1,2-Dibromoethane	7.85	107	186978	49.49	ug/L	99
40) Tetrachloroethene	8.04	164	303256	51.31	ug/L	96
41) 1,1,1,2-Tetrachloroethane	8.61	131	325810	50.31	ug/L	98
43) Chlorobenzene	8.67	112	926454	51.32	ug/L	100
44) Ethylbenzene	8.89	106	522387	51.21	ug/L	92
45) Bromoform	9.08	173	163343	52.75	ug/L	98
46) m,p-Xylene	9.09	91	2387870	101.20	ug/L #	52

Data Path : J:\7305\DATA\
 Data File : 9249S03.D
 Acq On : 6 Sep 2006 8:08 am
 Operator : LL
 Sample : VSTD050 CONT CAL 8260/OA1
 Misc : 10ML OF 50ML + 10UL V1847C + 1UL SSIS V1843E
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 06 08:30:18 2006
 Quant Method : J:\7305\METHODS\WTR8260.M
 Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
 QLast Update : Wed Sep 06 07:24:59 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Styrene	9.38	104	982826	53.11	ug/L	94
48) 1,1,2,2-Tetrachloroethane	9.43	83	181918	52.73	ug/L	99
49) o-Xylene	9.44	106	612340	51.54	ug/L	88
50) 1,2,3-Trichloropropane	9.55	110	58870	53.39	ug/L #	81
52) Isopropylbenzene	9.79	105	1436789	53.06	ug/L	96
53) Bromobenzene	9.93	156	383539	53.83	ug/L #	68
54) n-Propylbenzene	10.19	91	1835758	54.54	ug/L	95
55) 2-Chlorotoluene	10.23	91	1015144	51.75	ug/L	84
56) 4-Chlorotoluene	10.31	91	1070660	54.66	ug/L	93
57) 1,3,5-Trimethylbenzene	10.50	105	1270542	56.69	ug/L	96
58) tert-Butylbenzene	10.71	119	1123788	58.79	ug/L	89
59) 1,2,4-Trimethylbenzene	10.84	105	1251187	58.20	ug/L	98
60) sec-Butylbenzene	10.92	105	1618663	58.94	ug/L	96
61) 1,3-Dichlorobenzene	10.93	146	740668	57.71	ug/L	93
62) 1,4-Dichlorobenzene	11.00	146	693305	57.58	ug/L	91
63) p-Isopropyltoluene	11.11	119	1301351	59.98	ug/L	96
64) 1,2-Dichlorobenzene	11.30	146	552541	54.00	ug/L	92
65) n-Butylbenzene	11.48	91	997616	58.67	ug/L	95
66) 1,2-Dibromo-3-chloropropan	11.73	75	17339	51.98	ug/L #	71
67) 1,2,4-Trichlorobenzene	13.00	180	260010	59.73	ug/L	100
68) Naphthalene	13.20	128	261230	58.34	ug/L	98
69) Hexachlorobutadiene	13.31	225	146557	57.10	ug/L	99
70) 1,2,3-Trichlorobenzene	13.39	180	178573	60.85	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\7305\DATA\
Data File : 9249S03.D
Acq On : 6 Sep 2006 8:08 am
Operator : LL
Sample : VSTD050 CONT CAL 8260/OA1
Misc : 10ML OF 50ML + 10UL V1847C + 1UL SSIS V1843E
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 06 08:30:18 2006
Quant Method : J:\7305\METHODS\WTR8260.M
Quant Title : Method 8260 and OA-1 for Waste Water 10ml purge
QLast Update : Wed Sep 06 07:24:59 2006
Response via : Initial Calibration

