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Automated Report

Technical Report for

Anderson Mulholland and Assoc.

BMSMC, Building 5 Area, Puerto Rico

SM04.00.06

SGS Accutest Job Number: MC45816A

Sampling Date: 05/09/16

Report to:

Anderson-Mulholland and Associates Inc.
2700 Westchester Avenue
Purchase, NY 00677
roreilly@amaiconsult.com; ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **813**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Sample Summary

Anderson Mulholland and Assoc.

Job No: MC45816A

BMSMC, Building 5 Area, Puerto Rico
Project No: SM04.00.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC45816-2	05/09/16	11:30	TT	05/10/16	SO	Soil	RA-6 (6-7)
MC45816-2D	05/09/16	11:30	TT	05/10/16	SO	Soil Dup/MSD	RA-6 (6-7)
MC45816-2S	05/09/16	11:30	TT	05/10/16	SO	Soil Matrix Spike	RA-6 (6-7)
MC45816-6	05/09/16	13:55	TT	05/10/16	SO	Soil	RA-5 (5.5-6.5)
MC45816-7	05/09/16	14:30	TT	05/10/16	SO	Soil	RA-5 (9-10)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Anderson Mulholland and Assoc.	**Job No**	MC45816A
Site:	BMSMC, Building 5 Area, Puerto Rico	**Report Date**	6/1/2016 2:24:01 PM

3 Sample(s) were collected on 05/09/2016 and were received at SGS Accutest New England on 05/10/2016 properly preserved, at 5.6 Deg. C and intact. These Samples received a job number of MC45816A. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method MADEP VPH REV 1.1

Matrix: SO **Batch ID:** GAB5168

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45816-2MS, MC45816-2MSD were used as the QC samples indicated.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: SO **Batch ID:** OP47572

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45816-2MS, MC45816-2MSD were used as the QC samples indicated.

Wet Chemistry By Method SM 2540G-97 MOD

Matrix: SO **Batch ID:** GN53796

- Sample(s) MC45816-2DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN53806

- Sample(s) MC45816-6DUP were used as the QC samples for Solids, Percent.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC45816A).

Summary of Hits

Job Number: MC45816A
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 05/09/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC45816-2	**RA-6 (6-7)**					
No hits reported in this sample.						
MC45816-6	**RA-5 (5.5-6.5)**					
No hits reported in this sample.						
MC45816-7	**RA-5 (9-10)**					
C5- C8 Aliphatics (Unadj.)		10500	7200	3600	ug/kg	MADEP VPH REV 1.1
C9- C12 Aliphatics (Unadj.)		226000	7200	3600	ug/kg	MADEP VPH REV 1.1
C9- C10 Aromatics (Unadj.)		118000	7200	3600	ug/kg	MADEP VPH REV 1.1
C5- C8 Aliphatics		10500	7200	3600	ug/kg	MADEP VPH REV 1.1
C9- C12 Aliphatics		108000	7200	3600	ug/kg	MADEP VPH REV 1.1
C11-C22 Aromatics (Unadj.)		70700	21000	17000	ug/kg	MADEP EPH REV 1.1
C9-C18 Aliphatics		259000	11000	8500	ug/kg	MADEP EPH REV 1.1
C11-C22 Aromatics		70500	21000	17000	ug/kg	MADEP EPH REV 1.1

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	RA-6 (6-7)		
Lab Sample ID:	MC45816-2	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	71.2
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB94044.D	1	05/12/16	AF	n/a	n/a	GAB5168
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	14.3 g	16.0 ml	100 ul
Run #2			

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	9900	4900	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	9900	4900	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	9900	4900	ug/kg	
	C5- C8 Aliphatics	ND	9900	4900	ug/kg	
	C9- C12 Aliphatics	ND	9900	4900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	94%		70-130%
	2,3,4-Trifluorotoluene	98%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA-6 (6-7)		
Lab Sample ID:	MC45816-2	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	71.2
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14323.D	1	05/31/16	AP	05/20/16	OP47572	GDE801
Run #2							

	Initial Weight	Final Volume
Run #1	11.6 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	24000	19000	ug/kg	
	C9-C18 Aliphatics	ND	12000	9700	ug/kg	
	C19-C36 Aliphatics	ND	12000	9700	ug/kg	
	C11-C22 Aromatics	ND	24000	19000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		40-140%
321-60-8	2-Fluorobiphenyl	74%		40-140%
580-13-2	2-Bromonaphthalene	43%		40-140%
3386-33-2	1-Chlorooctadecane	95%		40-140%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA-5 (5.5-6.5)		
Lab Sample ID:	MC45816-6	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	81.6
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB94042.D	1	05/12/16	AF	n/a	n/a	GAB5168
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	16.9 g	16.0 ml	100 ul
Run #2			

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	6900	3500	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	6900	3500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	6900	3500	ug/kg	
	C5- C8 Aliphatics	ND	6900	3500	ug/kg	
	C9- C12 Aliphatics	ND	6900	3500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	85%		70-130%
	2,3,4-Trifluorotoluene	87%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA-5 (5.5-6.5)		
Lab Sample ID:	MC45816-6	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	81.6
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14324.D	1	05/31/16	AP	05/20/16	OP47572	GDE801
Run #2							

	Initial Weight	Final Volume
Run #1	11.3 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	22000	17000	ug/kg	
	C9-C18 Aliphatics	ND	11000	8700	ug/kg	
	C19-C36 Aliphatics	ND	11000	8700	ug/kg	
	C11-C22 Aromatics	ND	22000	17000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		40-140%
321-60-8	2-Fluorobiphenyl	71%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	84%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA-5 (9-10)		
Lab Sample ID:	MC45816-7	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	81.7
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB94043.D	1	05/12/16	AF	n/a	n/a	GAB5168
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	16.1 g	16.0 ml	100 ul
Run #2			

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	10500	7200	3600	ug/kg	
	C9- C12 Aliphatics (Unadj.)	226000	7200	3600	ug/kg	
	C9- C10 Aromatics (Unadj.)	118000	7200	3600	ug/kg	
	C5- C8 Aliphatics	10500	7200	3600	ug/kg	
	C9- C12 Aliphatics	108000	7200	3600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	90%		70-130%
	2,3,4-Trifluorotoluene	93%		70-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA-5 (9-10)		
Lab Sample ID:	MC45816-7	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	81.7
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14325.D	1	05/31/16	AP	05/20/16	OP47572	GDE801
Run #2							

	Initial Weight	Final Volume
Run #1	11.5 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	70700	21000	17000	ug/kg	
	C9-C18 Aliphatics	259000	11000	8500	ug/kg	
	C19-C36 Aliphatics	ND	11000	8500	ug/kg	
	C11-C22 Aromatics	70500	21000	17000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		40-140%
321-60-8	2-Fluorobiphenyl	76%		40-140%
580-13-2	2-Bromonaphthalene	89%		40-140%
3386-33-2	1-Chlorooctadecane	77%		40-140%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

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CHAIN OF CUSTODY

SGS Accutest ~~Dayton~~ New England
~~2235 Route 130, Dayton, NJ 08810~~ 50 Springside Marlborough MA
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

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80996056972 7

Bottle Order Control # MC45816A

SGS Accutest Quote #

SGS Accutest Job # Get from NJ 5/27/16

Client / Reporting Information	Project Information	Requested Analysis (see TEST CODE sheet)	Matrix Codes
Company Name: Anderson Mulholland Assoc Inc	Project Name: BMS Release Assessment		DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank
Street Address: 2700 Westchester	Street	Billing Information (if different from Report to)	
City: Purchase State: NY Zip	City: Humacao State: PR	Company Name	
Project Contact: Terry Taylor E-mail	Project #	Street Address	
Phone #: 914-251-0400 Fax #	Client Purchase Order #	City State Zip	
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand Phone #	Project Manager	Attention:	

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VMAVPH	BMAEPHR	LAB USE ONLY
-1	RA6 - GWD		5/6/16	1600	TT	GW	5	5								X	X	
-2	RA-6 (6-7)		5/9/16	1130	TT	SO	5					2			3	X	X	
-2	RA-6 (6-7) MS		5/9/16	1130	TT	SO	5					2			3	X	X	
-2	RA-6 (6-7) MSD		5/9/16	1130	TT	SO	5					2			3	X	X	17A
-3	RA-5 GWS		5/9/16	1200	TT	GW	5	5								X	X	
-4	S-41S		5/9/16	1235	NR	GW	5	5								X	X	7A
-5	S-41SD		5/9/16	1253	NR	GW	5	5								X	X	10DY
-6	RA-5 (5.5-6.5)		5/9/16	1355	TT	SO	5					2			3	X	X	JF2
-7	RA-5 (9-10)		5/9/16	1430	TT	SO	5					2			3	X	X	

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [x] Std. 10 Business Days For soil samples
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH For aqueous samples
- [ ] other

RUSH!

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

NJ Data of Known Quality Protocol Reporting

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary

NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASSESMENT

LABEL VERIFICATION

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	5/9/16 1500	1 Fed EX	2 FEDX	5-10-16 1100	2
3		3	4		4
5		5			

Custody Seal # 54 [ ] Intact [ ] Not intact

Preserved where applicable [ ]

On Ice [x] Cooler Temp. 5.6°C

MC45816A: Chain of Custody
Page 1 of 1

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC45816A

BMSMC, Building 5 Area, Puerto Rico
Project No: SM04.00.06

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC45816-2	Collected: 09-MAY-16 11:30 By: TT		Received: 10-MAY-16 By: TF			
RA-6 (6-7)						
MC45816-2	SM 2540G-97 MOD	11-MAY-16	EL			%SOL
MC45816-2	MADEP VPH REV 1.1	12-MAY-16 15:17	AF			VMAVPHR
MC45816-2	MADEP EPH REV 1.1	31-MAY-16 11:11	AP	20-MAY-16	PA	BMAEPHR
MC45816-6	Collected: 09-MAY-16 13:55 By: TT		Received: 10-MAY-16 By: TF			
RA-5 (5.5-6.5)						
MC45816-6	SM 2540G-97 MOD	12-MAY-16	BF			%SOL
MC45816-6	MADEP VPH REV 1.1	12-MAY-16 14:01	AF			VMAVPHR
MC45816-6	MADEP EPH REV 1.1	31-MAY-16 11:39	AP	20-MAY-16	PA	BMAEPHR
MC45816-7	Collected: 09-MAY-16 14:30 By: TT		Received: 10-MAY-16 By: TF			
RA-5 (9-10)						
MC45816-7	SM 2540G-97 MOD	12-MAY-16	BF			%SOL
MC45816-7	MADEP VPH REV 1.1	12-MAY-16 14:39	AF			VMAVPHR
MC45816-7	MADEP EPH REV 1.1	31-MAY-16 12:06	AP	20-MAY-16	PA	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 05/10/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC45816-2.3	Walk In Ref #22	Eriola Londo	05/11/16 11:28	Retrieve from Storage
MC45816-2.3	Eriola Londo	Walk In Ref #22	05/11/16 12:30	Return to Storage
MC45816-2.6	VOC Ref #10	Anthony Franciosa	05/12/16 10:54	Retrieve from Storage
MC45816-2.6	Anthony Franciosa	GCAB	05/12/16 10:54	Load on Instrument
MC45816-2.6	GCAB	Anthony Franciosa	05/12/16 12:45	Unload from Instrument
MC45816-2.6	Anthony Franciosa	VOC Ref #10	05/12/16 12:45	Return to Storage
MC45816-2.7	VOC Ref #10	Anthony Franciosa	05/12/16 10:54	Retrieve from Storage
MC45816-2.7	Anthony Franciosa	GCAB	05/12/16 10:54	Load on Instrument
MC45816-2.7	GCAB	Anthony Franciosa	05/12/16 12:45	Unload from Instrument
MC45816-2.7	Anthony Franciosa	VOC Ref #10	05/12/16 12:45	Return to Storage
MC45816-6.1	Walk In Ref #22	Eriola Londo	05/11/16 11:28	Retrieve from Storage
MC45816-6.1	Eriola Londo	Walk In Ref #22	05/11/16 12:30	Return to Storage
MC45816-6.3	VOC Ref #10	Anthony Franciosa	05/12/16 10:54	Retrieve from Storage
MC45816-6.3	Anthony Franciosa	GCAB	05/12/16 10:54	Load on Instrument
MC45816-6.3	GCAB	Anthony Franciosa	05/12/16 12:45	Unload from Instrument
MC45816-6.3	Anthony Franciosa	VOC Ref #10	05/12/16 12:45	Return to Storage
MC45816-7.2	Walk In Ref #22	Eriola Londo	05/11/16 11:28	Retrieve from Storage
MC45816-7.2	Eriola Londo	Walk In Ref #22	05/11/16 12:30	Return to Storage
MC45816-7.3	VOC Ref #10	Anthony Franciosa	05/12/16 10:54	Retrieve from Storage
MC45816-7.3	Anthony Franciosa	GCAB	05/12/16 10:54	Load on Instrument
MC45816-7.3	GCAB	Anthony Franciosa	05/12/16 12:45	Unload from Instrument
MC45816-7.3	Anthony Franciosa	VOC Ref #10	05/12/16 12:45	Return to Storage

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB5168-MB	AB94038.D	1	05/12/16	AF	n/a	n/a	GAB5168

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC45816-2, MC45816-6, MC45816-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	5000	2500	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	5000	2500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	5000	2500	ug/kg	
	C5- C8 Aliphatics	ND	5000	2500	ug/kg	
	C9- C12 Aliphatics	ND	5000	2500	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	95%	70-130%
	2,3,4-Trifluorotoluene	96%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB5168-BSP	AB94039.D	1	05/12/16	AF	n/a	n/a	GAB5168
GAB5168-BSD	AB94040.D	1	05/12/16	AF	n/a	n/a	GAB5168

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC45816-2, MC45816-6, MC45816-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	7500	7310	97	7300	97	0	70-130/25
	C9- C12 Aliphatics (Unadj.)	7500	7220	96	7320	98	1	70-130/25
	C9- C10 Aromatics (Unadj.)	2500	2520	101	2530	101	0	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	101%	102%	70-130%
	2,3,4-Trifluorotoluene	104%	104%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC45816-2MS	AB94045.D	1	05/12/16	AF	n/a	n/a	GAB5168
MC45816-2MSD	AB94046.D	1	05/12/16	AF	n/a	n/a	GAB5168
MC45816-2	AB94044.D	1	05/12/16	AF	n/a	n/a	GAB5168

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC45816-2, MC45816-6, MC45816-7

CAS No.	Compound	MC45816-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	ND		34500	25900	75	34500	25200	73	3	70-130/25
	C9- C12 Aliphatics (Unadj.)	ND		39500	38300	97	39500	37200	94	3	70-130/25
	C9- C10 Aromatics (Unadj.)	ND		14800	13800	93	14800	13700	93	1	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45816-2	Limits
	2,3,4-Trifluorotoluene	101%	98%	94%	70-130%
	2,3,4-Trifluorotoluene	105%	102%	98%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Method: MADEP VPH REV 1.1 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC45816-2	AB94044.D	94	98
MC45816-6	AB94042.D	85	87
MC45816-7	AB94043.D	90	93
GAB5168-BSD	AB94040.D	102	104
GAB5168-BSP	AB94039.D	101	104
GAB5168-MB	AB94038.D	95	96
MC45816-2MS	AB94045.D	101	105
MC45816-2MSD	AB94046.D	98	102

Surrogate Compounds	Recovery Limits
S1 = 2,3,4-Trifluorotoluene	70-130%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GAB5168-CC5058	**Injection Date:**	05/12/16
Lab File ID:	AB94037.D	**Injection Time:**	10:52
Instrument ID:	GCAB	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	20.19	20.19

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GAB5168-MB	AB94038.D	05/12/16	11:31	20.19	20.19
GAB5168-BSP	AB94039.D	05/12/16	12:08	20.19	20.19
GAB5168-BSD	AB94040.D	05/12/16	12:46	20.19	20.19
ZZZZZZ	AB94041.D	05/12/16	13:24	20.19	20.19
MC45816-6	AB94042.D	05/12/16	14:01	20.19	20.19
MC45816-7	AB94043.D	05/12/16	14:39	20.19	20.19
MC45816-2	AB94044.D	05/12/16	15:17	20.19	20.19
MC45816-2MS	AB94045.D	05/12/16	15:55	20.19	20.19
MC45816-2MSD	AB94046.D	05/12/16	16:33	20.19	20.19
ZZZZZZ	AB94047.D	05/12/16	17:11	20.19	20.19
ZZZZZZ	AB94048.D	05/12/16	17:50	20.19	20.19
ZZZZZZ	AB94049.D	05/12/16	18:28	20.19	20.19
ZZZZZZ	AB94050.D	05/12/16	19:06	20.19	20.19
ZZZZZZ	AB94051.D	05/12/16	19:44	20.19	20.19
ZZZZZZ	AB94052.D	05/12/16	20:23	20.19	20.19
ZZZZZZ	AB94053.D	05/12/16	21:01	20.19	20.19

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

Initial Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5058-ICC5058
Lab FileID: AB92588.D

```
                         Response Factor Report  GCAB

  Method       : C:\msdchem\1\methods\ab160112vph.M (ChemStation Integrator)
  Title        : vph
  Last Update  : Tue Jan 12 15:39:56 2016
  Response via : Initial Calibration

  Calibration Files
  1   =AB92584.d   2   =AB92585.d   3   =AB92586.d   4   =AB92587.d
  5   =AB92588.d   6   =AB92589.d   7   =AB92590.d   8   =AB92591.d
  9   =AB92592.d       =

   Compound
             1     2     3     4     5     6     7     8     9       Avg    %RSD
  ---------------------------------------------------------------------------
  1)  rt5.5-7
            4.015                   4.015                           4.015 E5    0.00
  2)  rt7/10
            4.015                   4.015                           4.015 E5    0.00
  3)  rt10/13
            4.015                   4.015                           4.015 E5    0.00
  4)  fluorobenzene
            4.421 4.338 4.284 4.287 4.423 4.362 4.400 4.413 4.684   4.401 E5    2.70
  5)  rt13/16
                                                                    0.000   -1.00
  6)  2,3,4-trifluorotoluene
            3.985 3.928 3.890 3.872 4.062 4.159 4.136 4.292 4.572   4.100 E5    5.49
  7)  rt16/20
                                                                    0.000   -1.00
  8)  rt20/25
            6.265                   6.265                           6.265 E5    0.00
  9)  rt25/29
                                                                    0.000   -1.00
 10)  decane
            6.265                   6.265                           6.265 E5    0.00
 11)  butylcyclohexane
            6.265                   6.265                           6.265 E5    0.00
 12)  2,5-dibromotoluene
                                                                    0.000   -1.00

Signal #2

 14)  mtbe #2
            4.582 4.985 5.060 4.982 5.169 5.191 5.208 5.064 5.159   5.045 E5    3.83
 15)  benzene #2
            1.012 1.142 1.273 1.377 1.407 1.397 1.401 1.320 1.386   1.302 E6   10.64
 16)  fluorobenzene #2
            6.853 7.953 8.635 8.795 8.966 8.690 8.582 8.606 8.720   8.422 E5    7.72
 17)  toluene #2
            0.865 0.992 1.099 1.178 1.208 1.217 1.233 1.262 1.234   1.143 E6   11.70
 18)  2,3,4-trifluorotoluene #2
            4.061 4.472 4.657 4.626 4.716 4.722 4.786 4.976 5.004   4.669 E5    6.04
 19)  ethylbenzene #2
            7.138 8.334 9.106 9.708 9.986 9.985 9.977 9.450 9.642   9.259 E5   10.34
 20)  m,p-xylene #2
            0.719 0.786 0.903 1.065 1.207 1.232 1.238 1.180 1.216   1.061 E6   19.35
 21)  o-xylene #2
            0.684 0.814 0.917 0.978 1.013 1.008 1.013 0.974 1.006   0.934 E6   12.18
 22)  1,3,5-trimethylbenzene #2
            0.848 1.055 1.250 1.376 1.460 1.417 1.423 1.439 1.490   1.307 E6   16.73
```

Initial Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GAB5058-ICC5058
Lab FileID: AB92588.D

```
23)  1,2,4-trimethylbenzene #2
           0.633 0.790 0.926 1.001 1.046 1.065 1.071 1.029 1.052   0.957 E6   15.78
24)  naphthalene #2
           3.706 5.271 6.565 7.237 7.534 8.607 8.284 8.630 9.228   7.229 E5   24.82
25)  c9-c10 arom as 1,2,4-tmb
           0.633 0.789 0.925 1.003 1.050 1.073 1.071 1.023 1.056   0.958 E6   15.89
26)  2,5-dibromotoluene #2
                                                                   0.000   -1.00
---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          ab160112vph.M        Wed Jan 13 07:41:06 2016
```

Initial Calibration Verification

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GAB5058-ICV5058
Lab FileID: AB92593.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 14:02:22
Operator  : haleyn
Sample    : icv5058-50
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:42:13 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title  : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  80%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 120%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	401.509	310.947 E3	22.6#	77#	0.00
2	h	rt7/10	401.509	359.990 E3	10.3	90	0.00
3	h	rt10/13	401.509	418.403 E3	-4.2	104	0.00
4	s	fluorobenzene	440.139	412.455 E3	6.3	93	0.00
6	s	2,3,4-trifluorotoluene	409.952	373.103 E3	9.0	92	0.00
8	h	rt20/25	626.504	534.891 E3	14.6	85	0.00
10	h	decane	626.504	546.412 E3	12.8	87	0.00
11	h	butylcyclohexane	626.504	575.270 E3	8.2	92	0.00
Signal #2							
14		mtbe #2	504.452	478.410 E3	5.2	93	0.00
15		benzene #2	1.302	1.313 E6	-0.8	93	0.00
16	s	fluorobenzene #2	842.245	822.717 E3	2.3	92	0.00
17		toluene #2	1143.283	1127.102 E3	1.4	93	0.00
18	s	2,3,4-trifluorotoluene #2	466.878	433.633 E3	7.1	92	0.00
19		ethylbenzene #2	925.851	917.638 E3	0.9	92	0.00
20		m,p-xylene #2	1060.718	1124.544 E3	-6.0	93	0.00
21		o-xylene #2	934.140	947.669 E3	-1.4	94	0.00
22	t	1,3,5-trimethylbenzene #2	1306.512	1262.638 E3	3.4	86	0.00
23		1,2,4-trimethylbenzene #2	957.036	955.950 E3	0.1	91	0.00
24		naphthalene #2	722.911	665.539 E3	7.9	88	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	959.448 E3	-0.1	91	0.00

Evaluate Continuing Calibration Report - Not Founds

5		rt13/16	0.000	0.000	0.0	0#	0.00
7		rt16/20	0.000	0.000	0.0	0#	0.00
9		rt25/29	0.000	0.000	0.0	0#	0.00
12		2,5-dibromotoluene	0.000	0.000	0.0	0#	0.00

Initial Calibration Verification

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5058-ICV5058
Lab FileID: AB92593.D

```
  Signal #2

 26     2,5-dibromotoluene #2         0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

    (#) = Out of Range               SPCC's out = 0  CCC's out = 0

ab160112vph.M Wed Jan 13 07:40:57 2016
```

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GAB5168-CC5058
Lab FileID: AB94037.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94037.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 10:52:21
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26234,gab5168,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 11:31:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	401.509	329.835 E3	17.9	82	0.00
2	h	rt7/10	401.509	375.806 E3	6.4	94	0.00
3	h	rt10/13	401.509	433.131 E3	-7.9	108	0.00
4	s	fluorobenzene	440.139	415.966 E3	5.5	94	-0.02
6	s	2,3,4-trifluorotoluene	409.952	376.728 E3	8.1	93	-0.02
8	h	rt20/25	626.504	535.777 E3	14.5	86	0.00
10	h	decane	626.504	547.743 E3	12.6	87	0.00
11	h	butylcyclohexane	626.504	588.649 E3	6.0	94	0.00
Signal #2							
14		mtbe #2	504.452	512.189 E3	-1.5	99	-0.01
15		benzene #2	1.302	1.248 E6	4.1	89	-0.02
16	s	fluorobenzene #2	842.245	805.321 E3	4.4	90	-0.02
17		toluene #2	1143.283	1078.105 E3	5.7	89	-0.02
18	s	2,3,4-trifluorotoluene #2	466.878	425.425 E3	8.9	90	-0.02
19		ethylbenzene #2	925.851	885.825 E3	4.3	89	-0.02
20		m,p-xylene #2	1060.718	1063.663 E3	-0.3	88	-0.01
21		o-xylene #2	934.140	886.948 E3	5.1	88	-0.01
22	t	1,3,5-trimethylbenzene #2	1306.512	1147.259 E3	12.2	79	-0.01
23		1,2,4-trimethylbenzene #2	957.036	887.772 E3	7.2	85	-0.01
24		naphthalene #2	722.911	654.741 E3	9.4	87	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	888.734 E3	7.2	85	0.00

Evaluate Continuing Calibration Report - Not Founds

5		rt13/16	0.000	0.000	0.0	0#	0.00
7		rt16/20	0.000	0.000	0.0	0#	0.00
9		rt25/29	0.000	0.000	0.0	0#	0.00
12		2,5-dibromotoluene	0.000	0.000	0.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5168-CC5058
Lab FileID: AB94037.D

```
  Signal #2

 26     2,5-dibromotoluene #2         0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

    (#) = Out of Range               SPCC's out = 0  CCC's out = 0

ab160512vph.M Thu May 12 14:07:00 2016
```

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GAB5168-CC5058
Lab FileID: AB94054.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 21:40:39
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26234,gab5168,,,,5,1
ALS Vial  : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 08:02:49 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	401.509	326.539 E3	18.7	81	0.00
2	h	rt7/10	401.509	371.989 E3	7.4	93	0.00
3	h	rt10/13	401.509	455.287 E3	-13.4	113	0.00
4	s	fluorobenzene	440.139	408.427 E3	7.2	92	-0.02
6	s	2,3,4-trifluorotoluene	409.952	370.270 E3	9.7	91	-0.01
8	h	rt20/25	626.504	529.531 E3	15.5	85	0.00
10	h	decane	626.504	541.414 E3	13.6	86	0.00
11	h	butylcyclohexane	626.504	580.991 E3	7.3	93	0.00
Signal #2							
14		mtbe #2	504.452	498.404 E3	1.2	96	-0.02
15		benzene #2	1.302	1.185 E6	9.0	84	-0.02
16	s	fluorobenzene #2	842.245	762.025 E3	9.5	85	-0.01
17		toluene #2	1143.283	1025.723 E3	10.3	85	-0.01
18	s	2,3,4-trifluorotoluene #2	466.878	400.858 E3	14.1	85	-0.01
19		ethylbenzene #2	925.851	844.302 E3	8.8	85	-0.01
20		m,p-xylene #2	1060.718	1018.220 E3	4.0	84	-0.01
21		o-xylene #2	934.140	847.184 E3	9.3	84	-0.01
22	t	1,3,5-trimethylbenzene #2	1306.512	1099.155 E3	15.9	75	0.00
23		1,2,4-trimethylbenzene #2	957.036	847.974 E3	11.4	81	0.00
24		naphthalene #2	722.911	642.926 E3	11.1	85	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	848.561 E3	11.4	81	0.00

Evaluate Continuing Calibration Report - Not Founds

5		rt13/16	0.000	0.000	0.0	0#	0.00
7		rt16/20	0.000	0.000	0.0	0#	0.00
9		rt25/29	0.000	0.000	0.0	0#	0.00
12		2,5-dibromotoluene	0.000	0.000	0.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5168-CC5058
Lab FileID: AB94054.D

```
  Signal #2

 26     2,5-dibromotoluene #2         0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

    (#) = Out of Range               SPCC's out = 0  CCC's out = 0

ab160512vph.M Fri May 13 17:47:16 2016
```

GC Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/17/16 09:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:26:41 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.134	23491062	53.372	ppb	m
Spiked Amount 50.000		Recovery = 106.74%			
6) s 2,3,4-trifluorotoluene	20.192	19962893	48.696	ppb	m
Spiked Amount 50.000		Recovery = 97.39%			
16) s fluorobenzene #2	15.132	43966247	52.201	ppb	
Spiked Amount 50.000		Recovery = 104.40%			
18) s 2,3,4-trifluorotoluen...	20.189	21733917	46.552	ppb	m
Spiked Amount 50.000		Recovery = 93.10%			
Target Compounds					
1) h rt5.5-7	6.420	1153947	2.874	ppb	
2) h rt7/10	8.720	1084603	2.701	ppb	
3) h rt10/13	13.870	4336060	10.799	ppb	
8) h rt20/25	21.870	27814230	44.396	ppb	
20) m,p-xylene #2	22.339	994078	0.937	ppb	m
21) o-xylene #2	23.147	307387	0.329	ppb	m
24) naphthalene #2	28.043	332563	0.460	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	35014415	36.548	ppb	

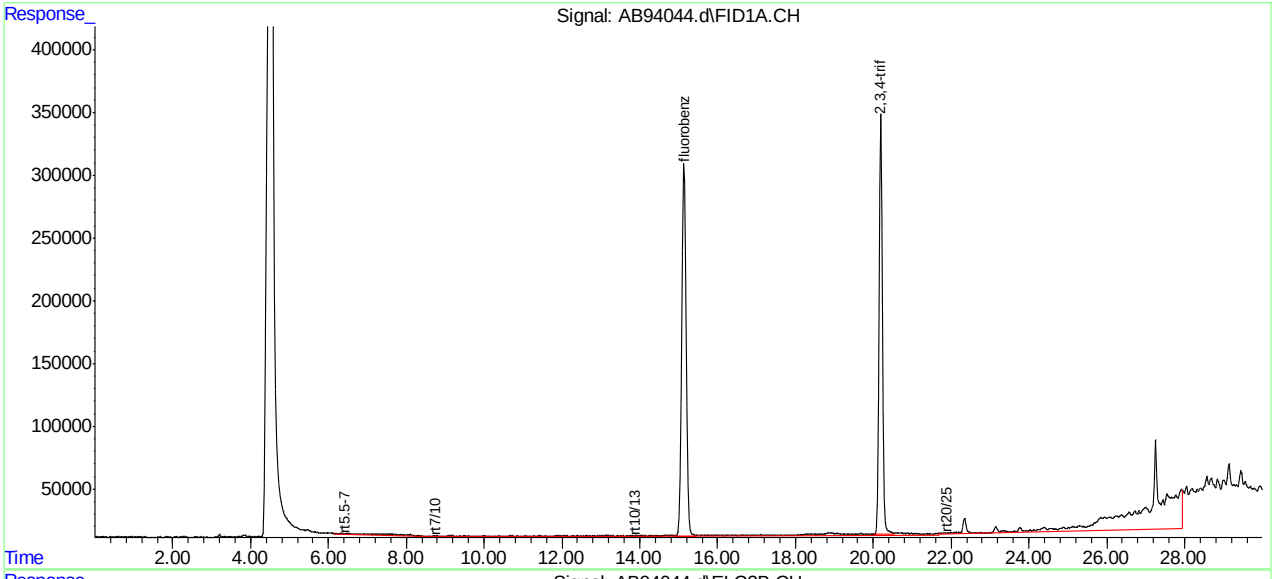
(f)=RT Delta > 1/2 Window (m)=manual int.

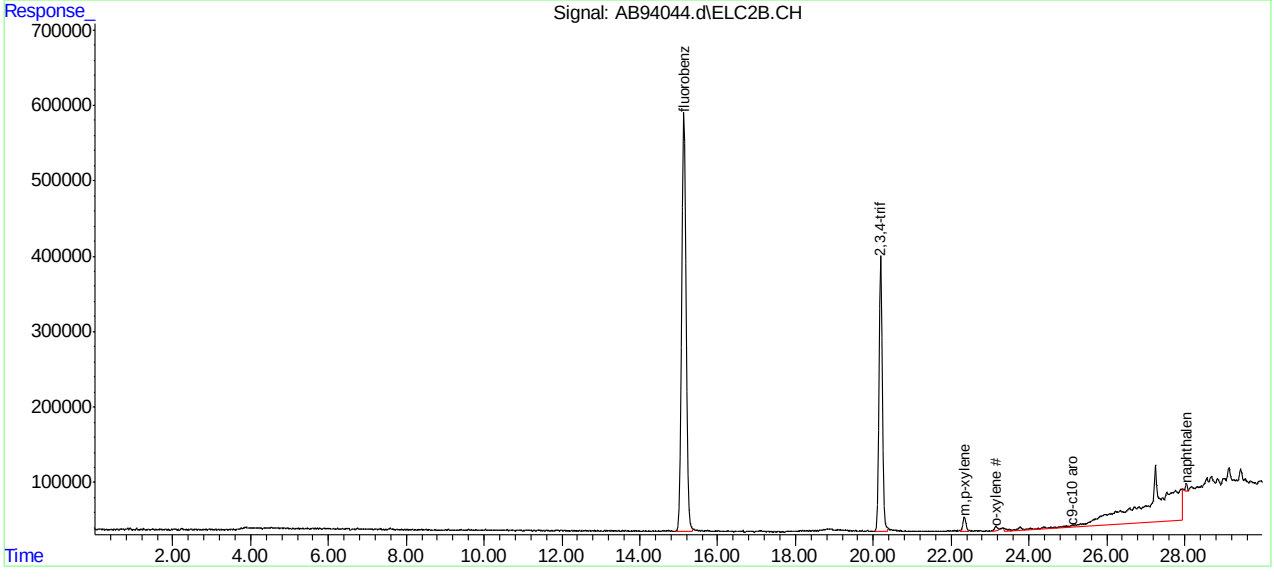
Quantitation Report (QT Reviewed)

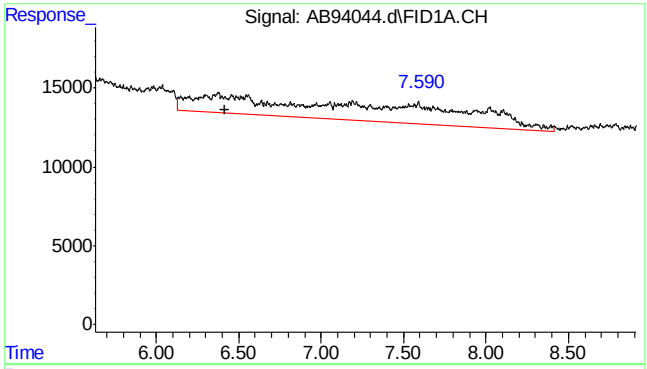
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:26:41 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

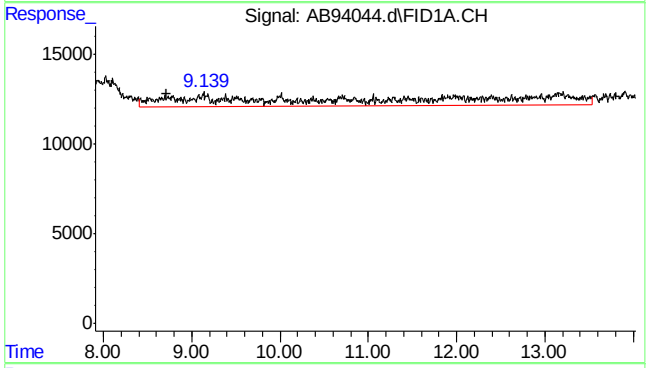






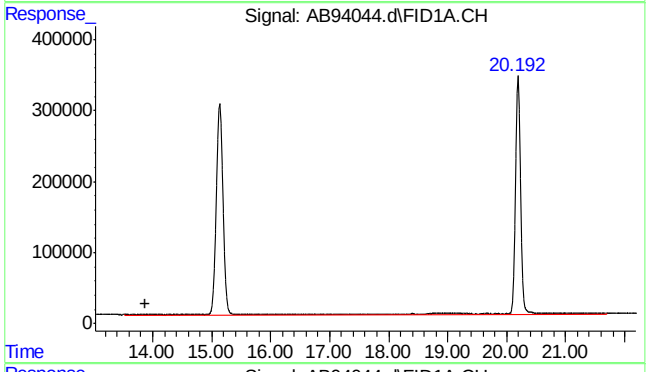
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 1153947
Conc: 2.87 ppb



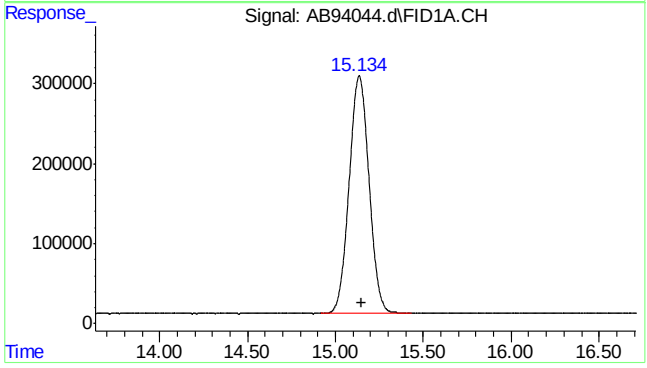
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 1084603
Conc: 2.70 ppb



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 4336060
Conc: 10.80 ppb



#4 fluorobenzene

R.T.: 15.134 min
Delta R.T.: -0.017 min
Response: 23491062
Conc: 53.37 ppb m

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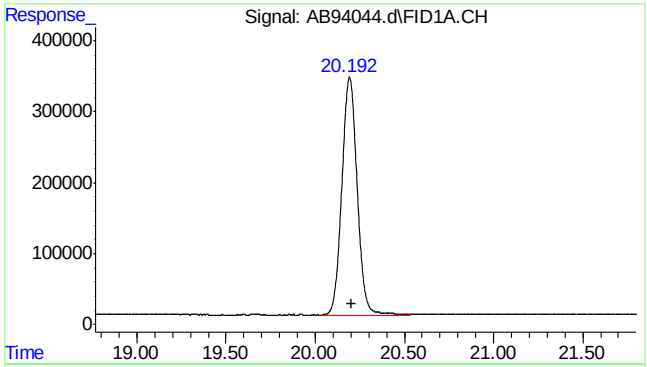
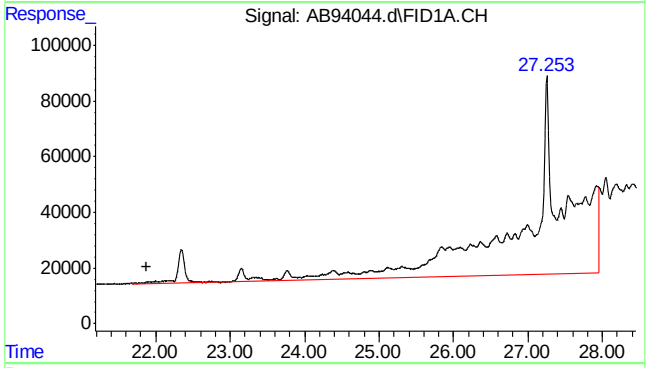


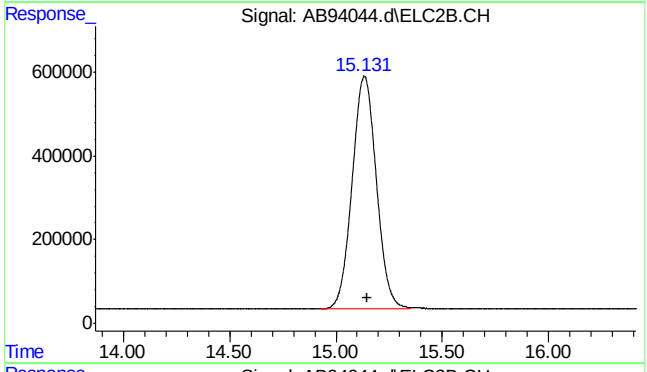
#6 2,3,4-trifluorotoluene

```
      R.T.:   20.192 min
Delta R.T.:   -0.014 min
  Response:  19962893
      Conc:  48.70 ppb m
```



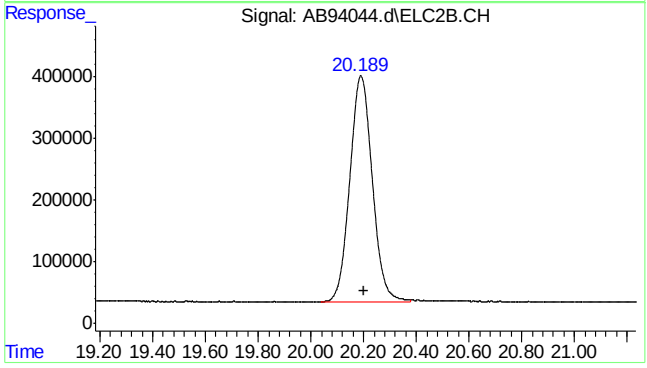
#8 rt20/25

```
      R.T.:   21.870 min
Delta R.T.:    0.000 min
  Response:  27814230
      Conc:  44.40 ppb
```



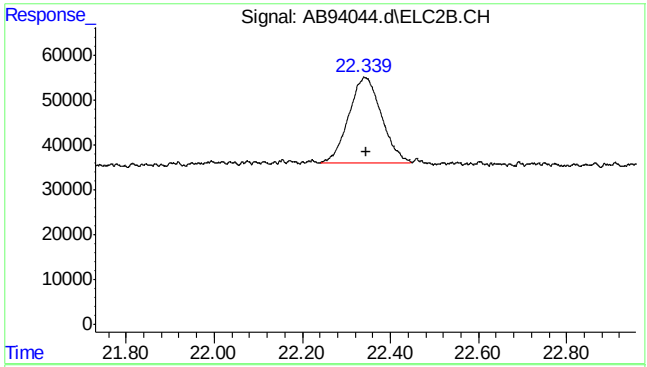
#16 fluorobenzene #2

```
      R.T.:   15.132 min
Delta R.T.:   -0.016 min
  Response:  43966247
      Conc:  52.20 ppb
```



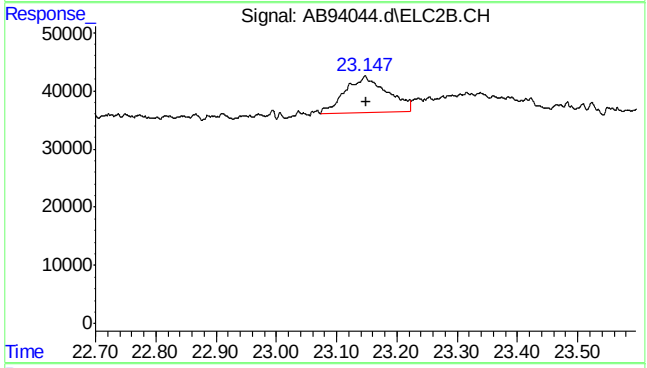
#18 2,3,4-trifluorotoluene #2

```
      R.T.:   20.189 min
Delta R.T.:   -0.014 min
  Response:  21733917
      Conc:  46.55 ppb m
```



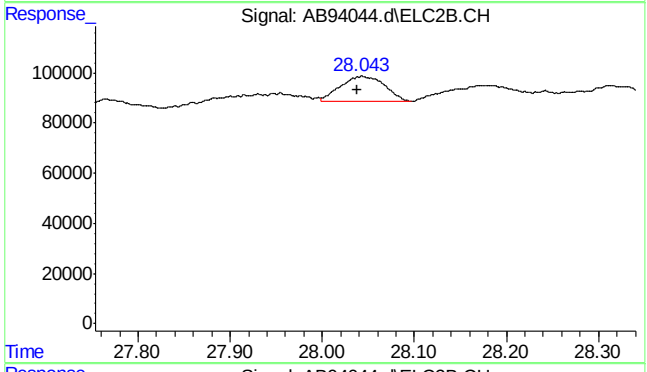
#20 m,p-xylene #2

R.T.: 22.339 min
Delta R.T.: -0.005 min
Response: 994078
Conc: 0.94 ppb m



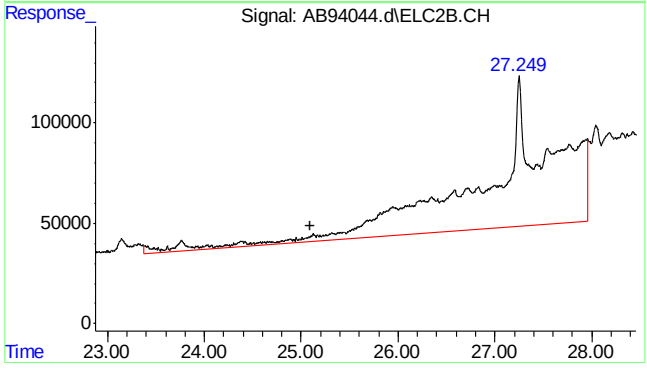
#21 o-xylene #2

R.T.: 23.147 min
Delta R.T.: -0.003 min
Response: 307387
Conc: 0.33 ppb m



#24 naphthalene #2

R.T.: 28.043 min
Delta R.T.: 0.005 min
Response: 332563
Conc: 0.46 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 35014415
Conc: 36.55 ppb

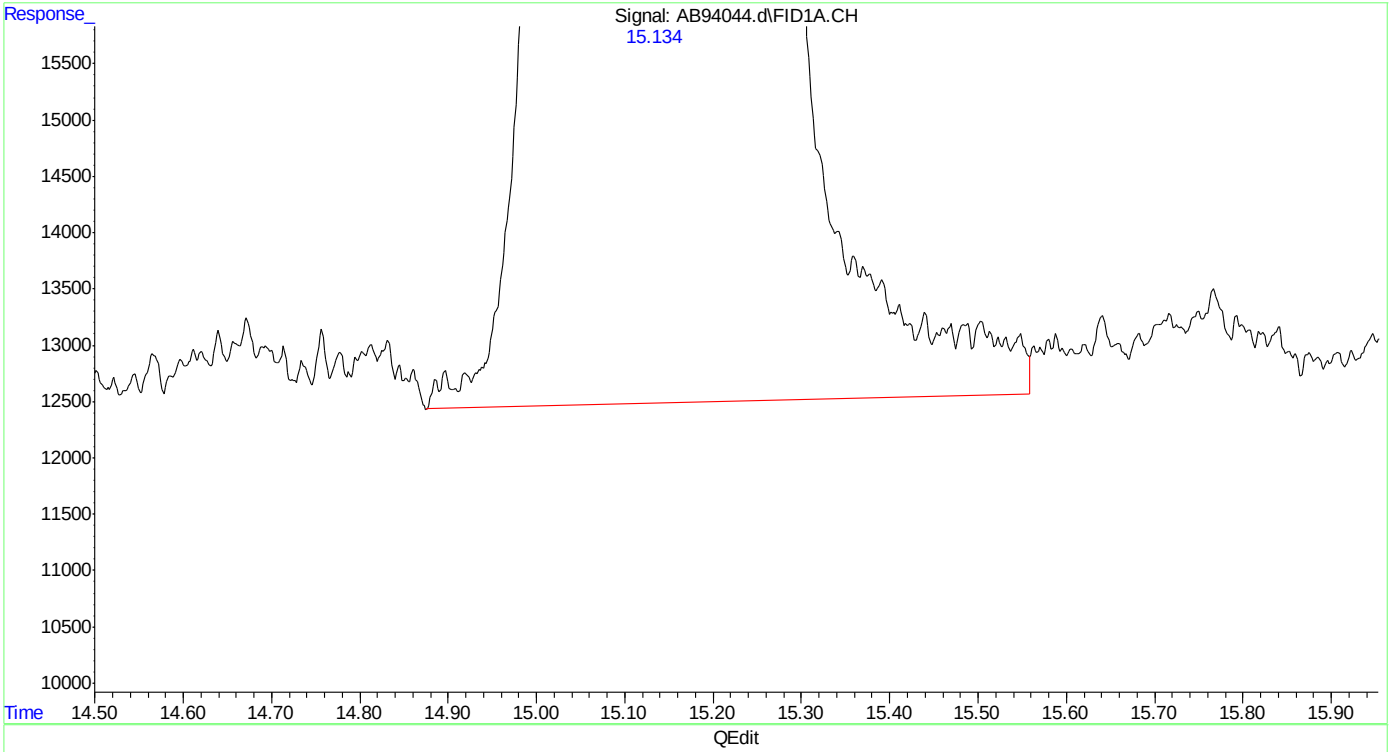
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
15.135min 53.531 ppb
response 23560920

(+) = Expected Retention Time

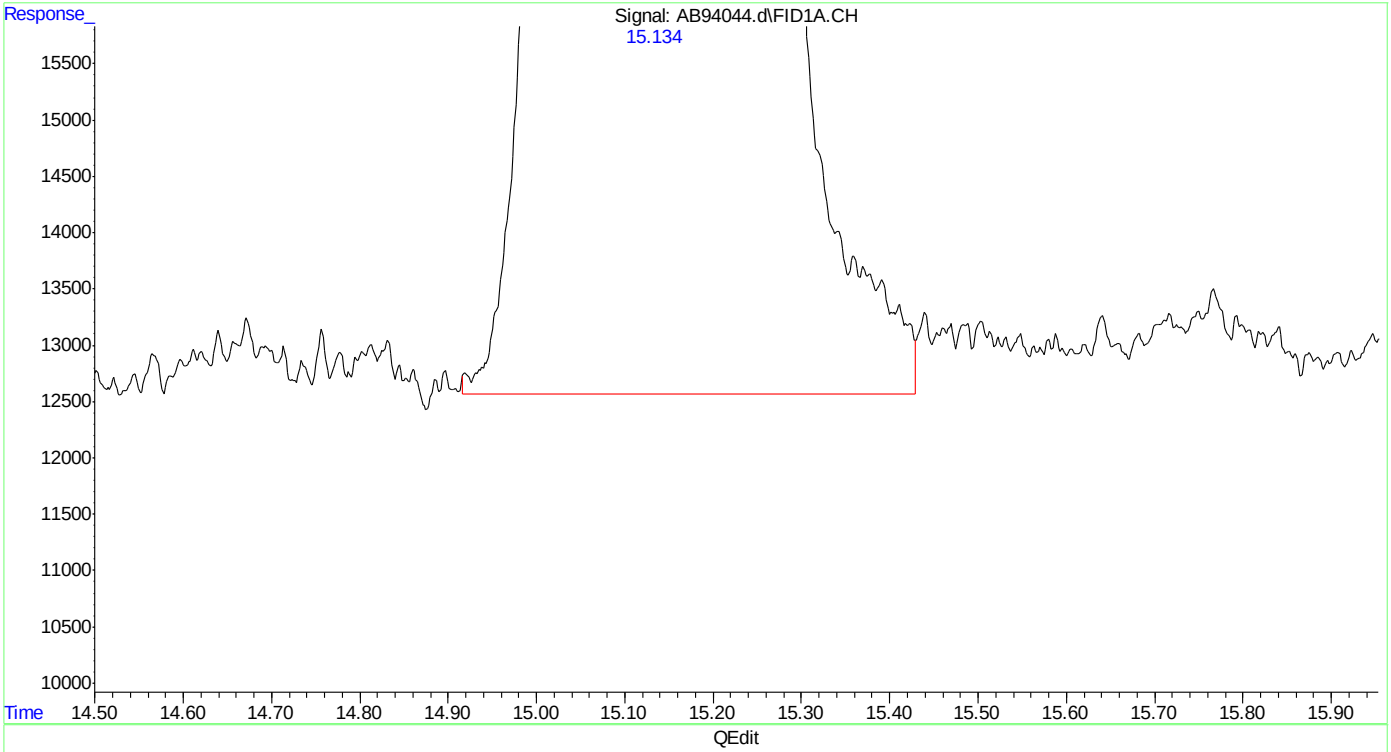
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
15.134min 53.372 ppb m
response 23491062

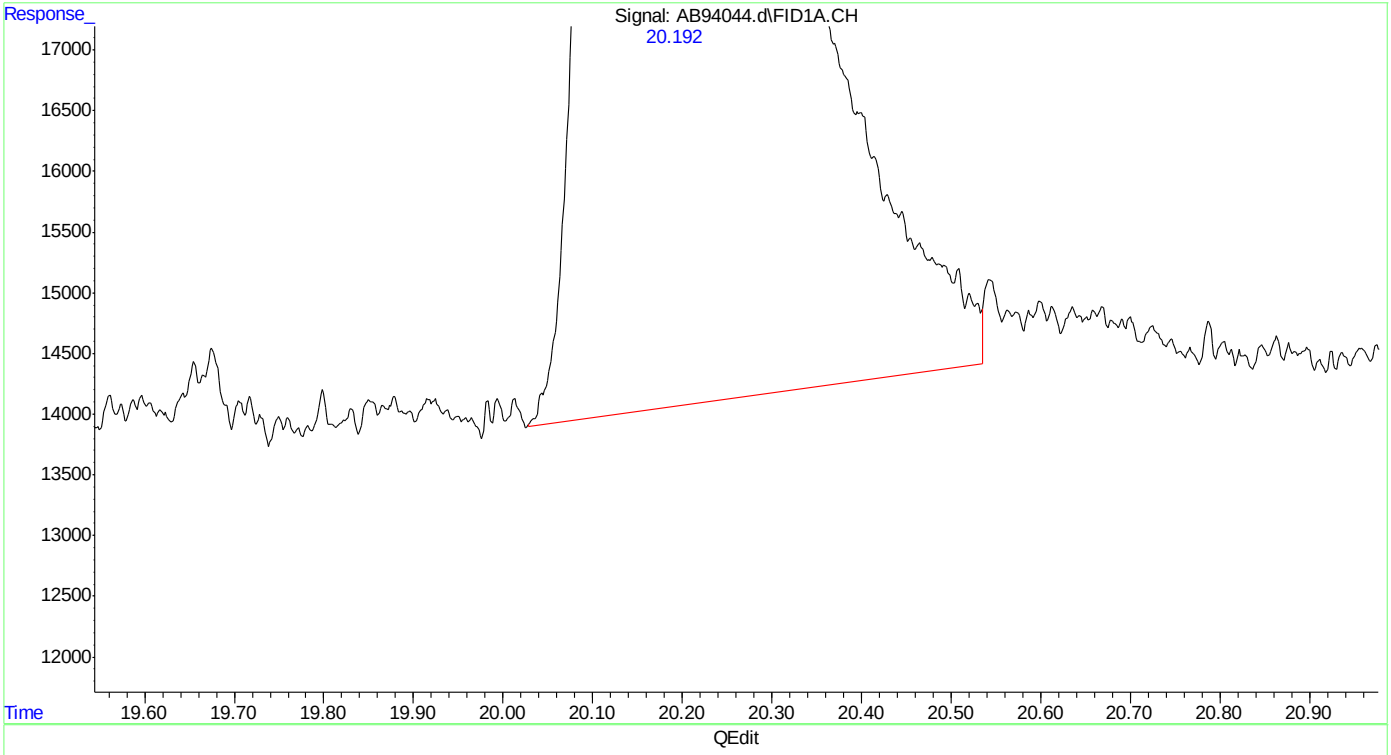
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:25:27 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) 2,3,4-trifluorotoluene (s)
20.192min 48.500 ppb
response 19882808

(+) = Expected Retention Time

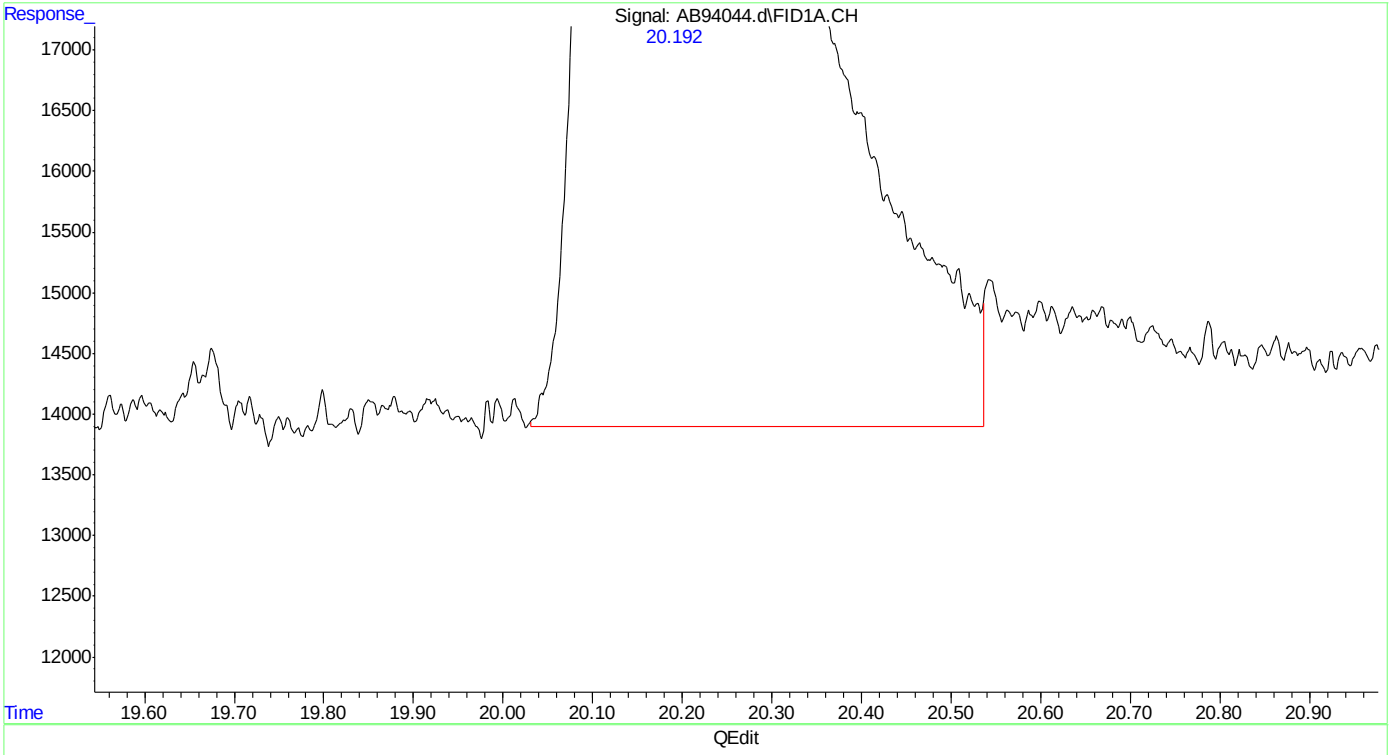
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) 2,3,4-trifluorotoluene (s)
20.192min 48.696 ppb m
response 19962893

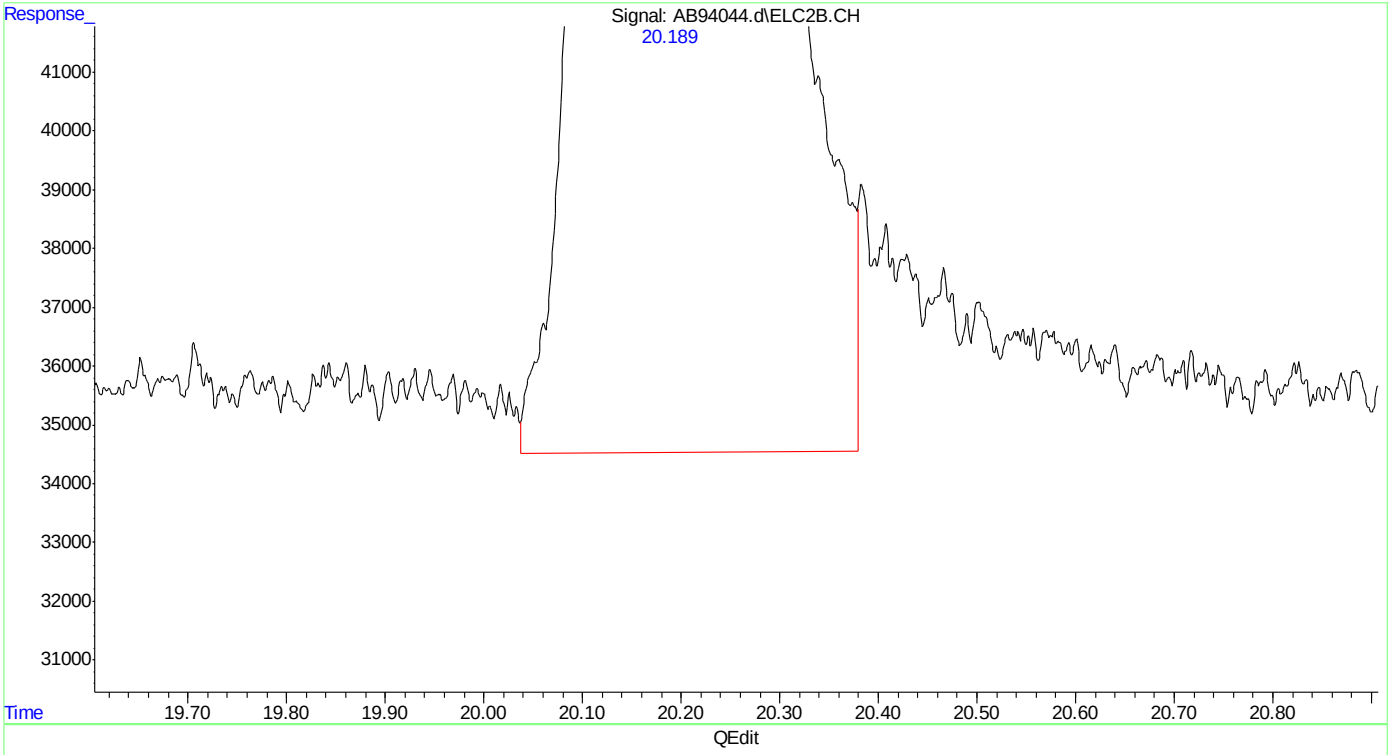
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
20.190min 46.786 ppb
response 21843344

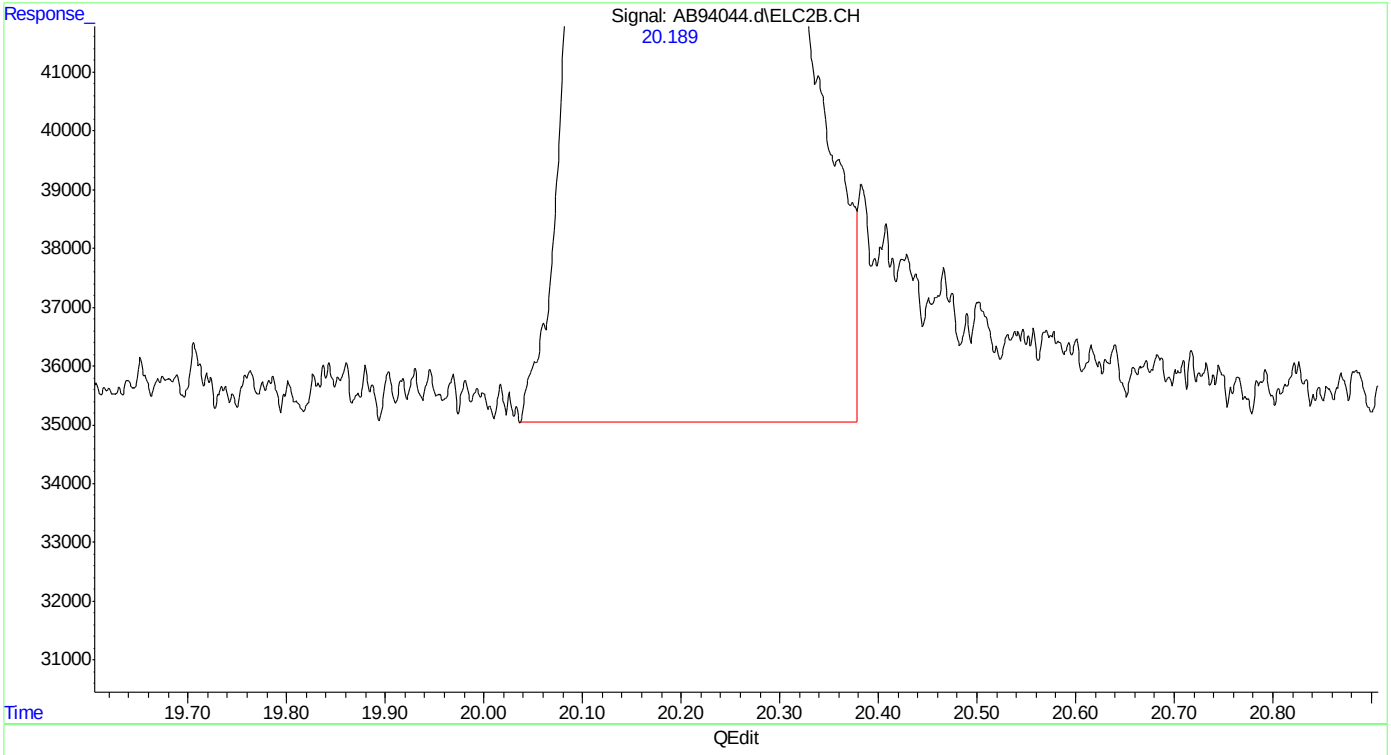
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
20.189min 46.552 ppb m
response 21733917

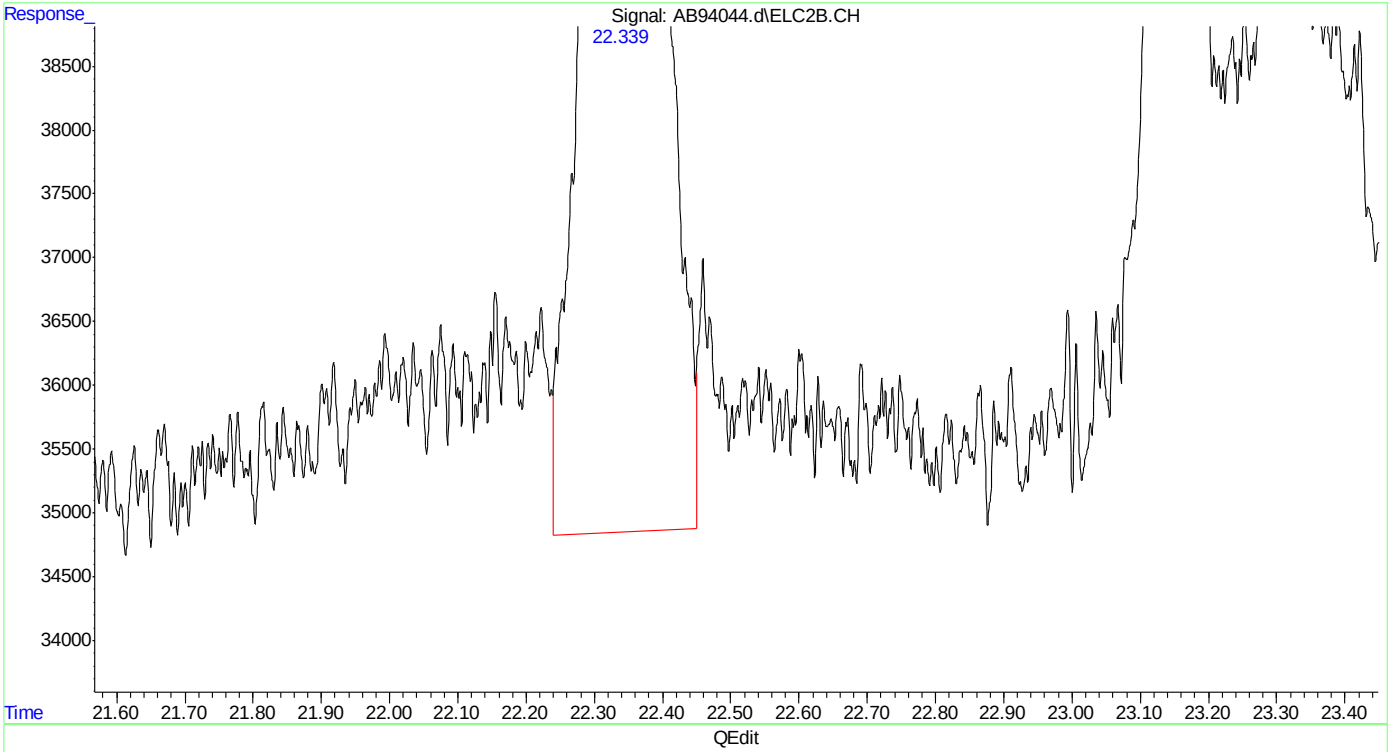
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:26:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
22.342min 1.062 ppb
response 1126045

(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:26:14 2016

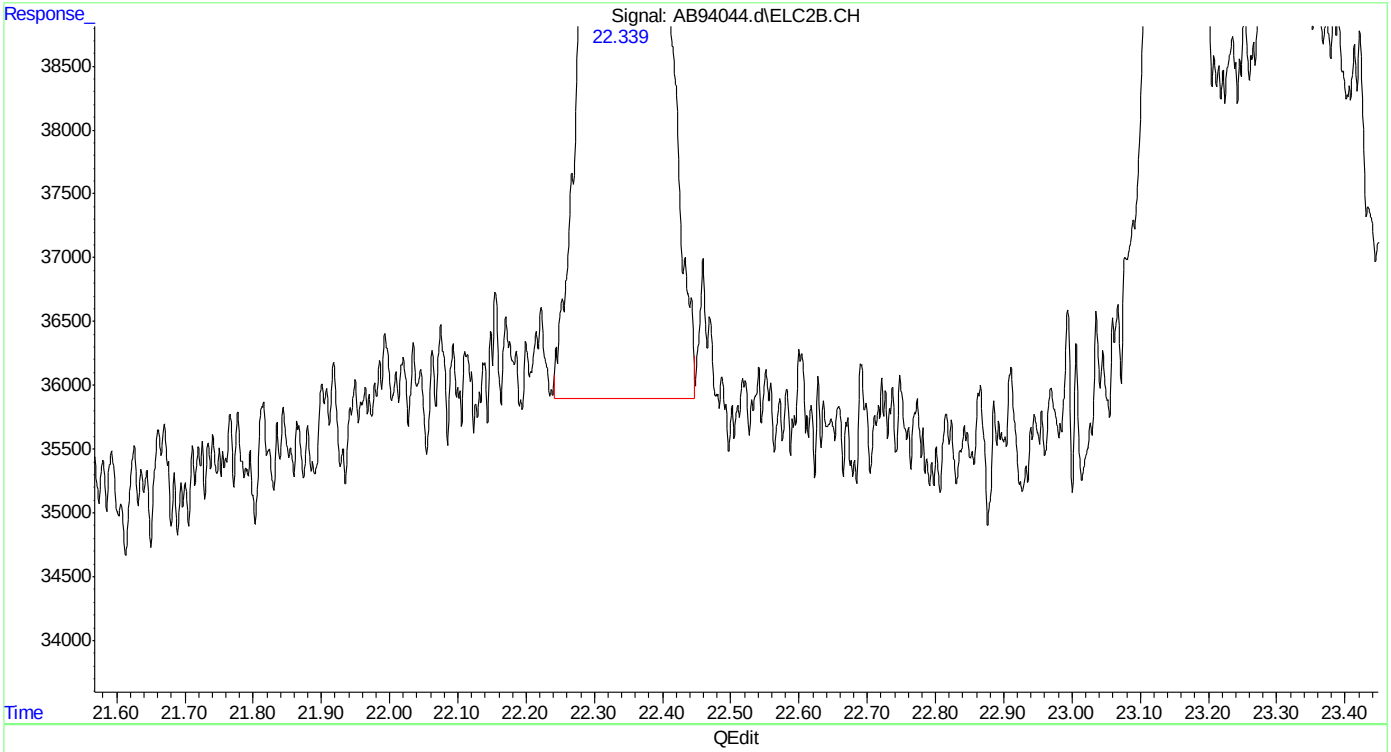
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
22.339min 0.937 ppb m
response 994078

(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:26:19 2016

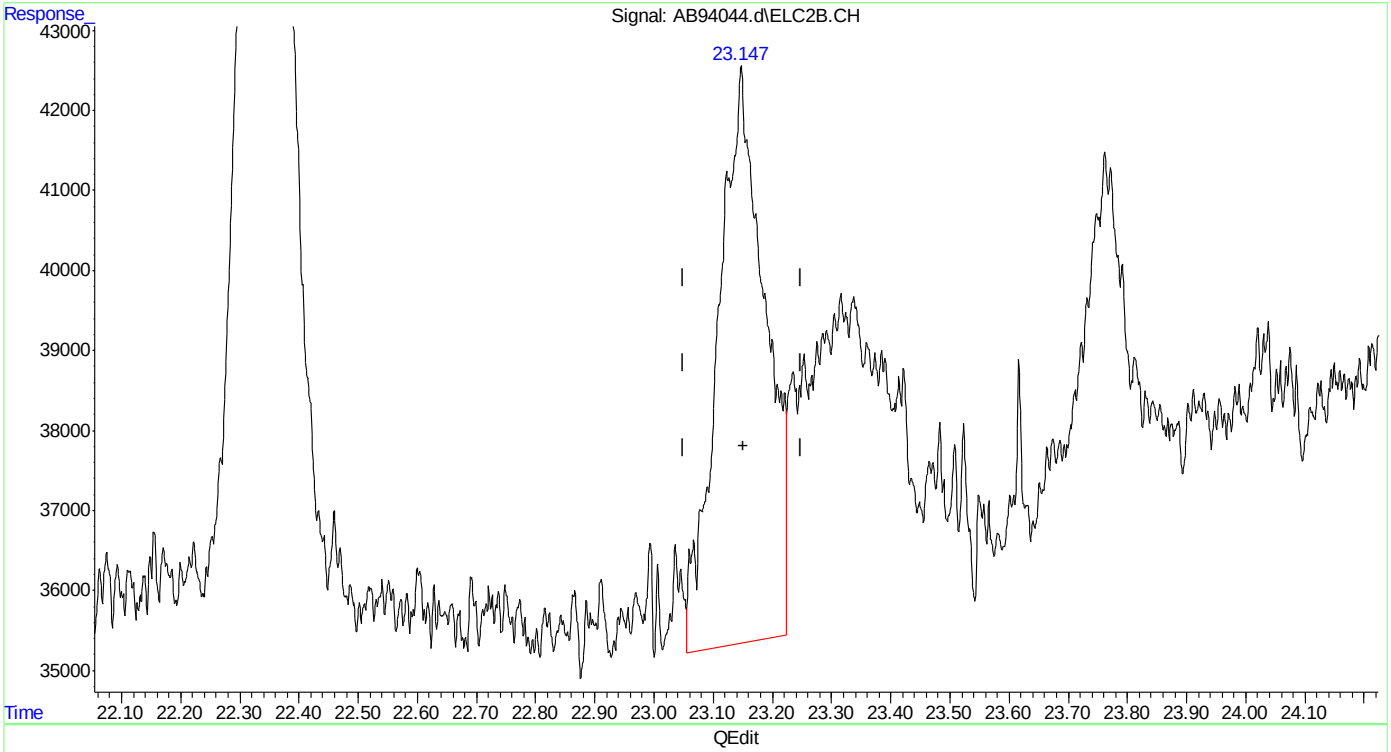
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
23.147min 0.429 ppb
response 400368

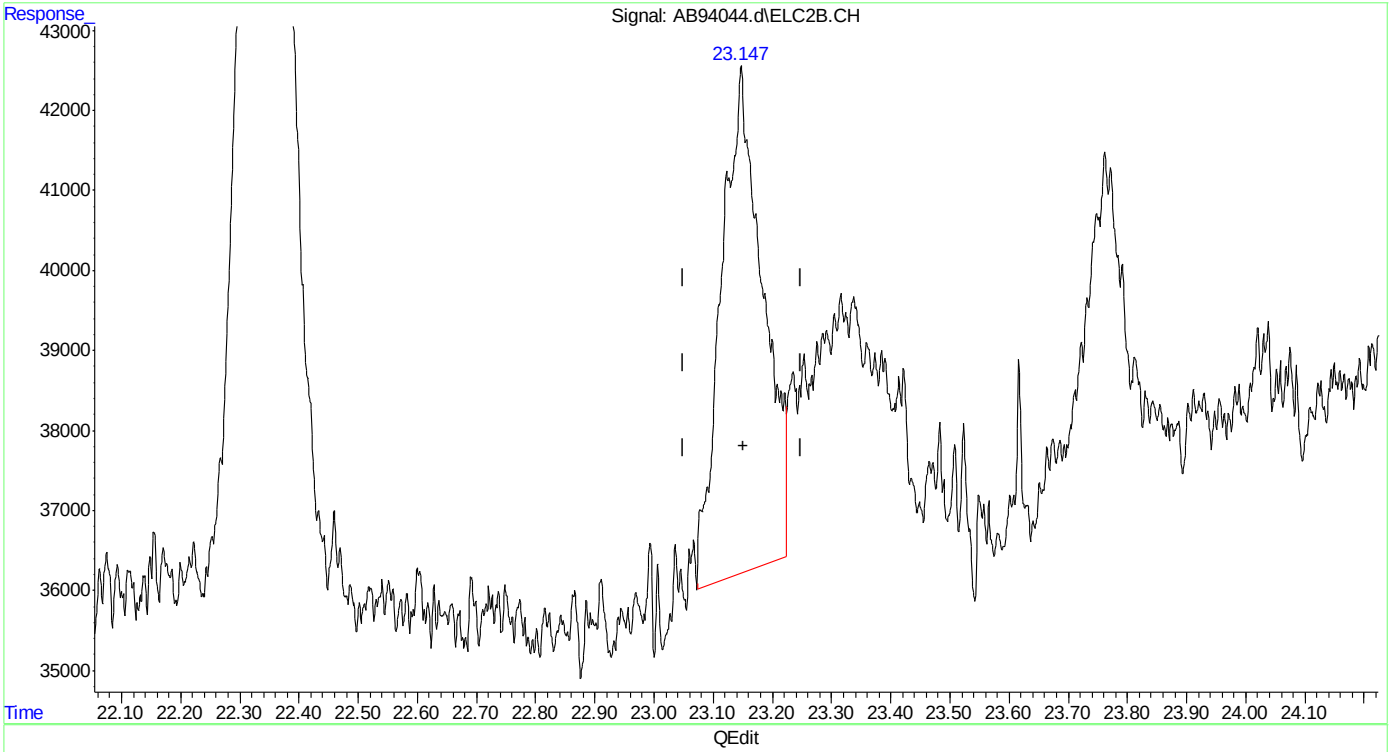
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
23.147min 0.329 ppb m
response 307387

(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:26:28 2016

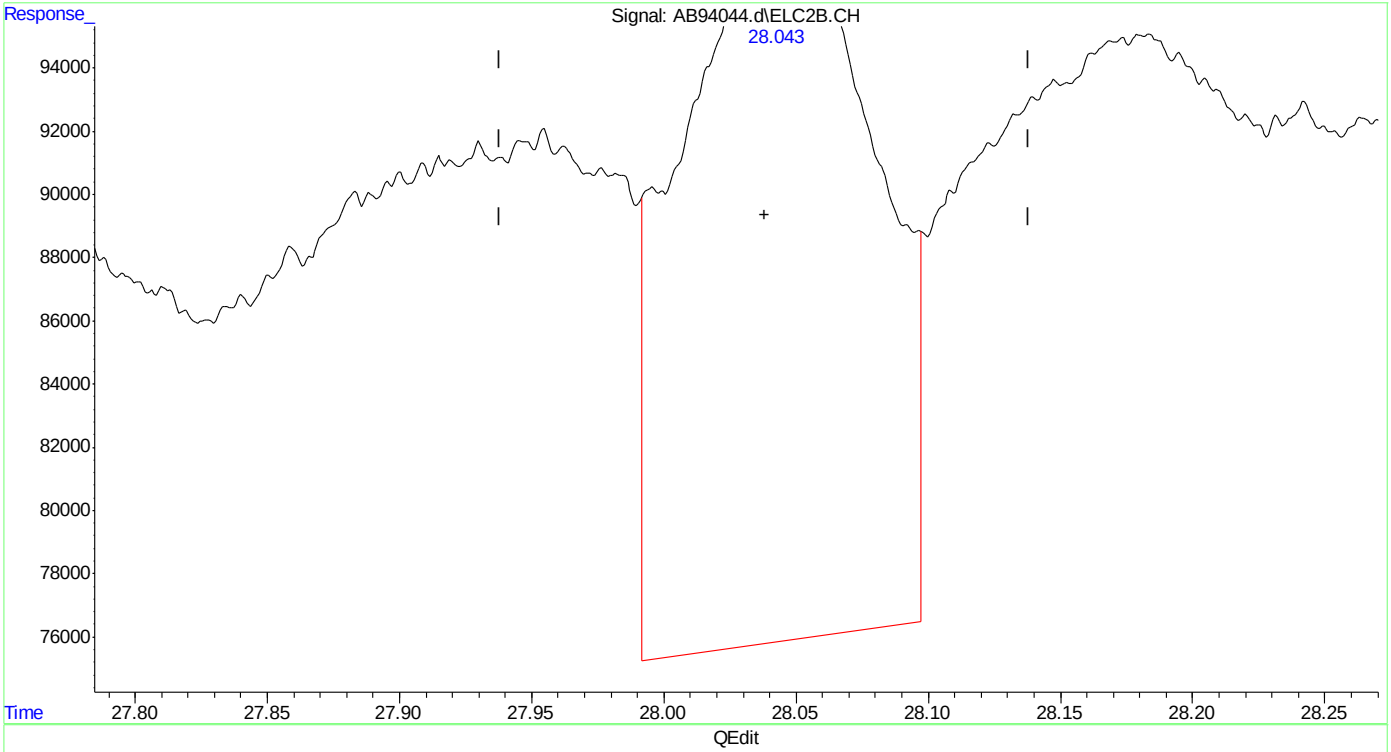
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator  : tonyf
Sample    : mc45816-2,s,vmavph,16
Misc      : gc26234,gab5168,14.32,,100,16,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.043min 1.586 ppb

response 1146850

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:26:35 2016

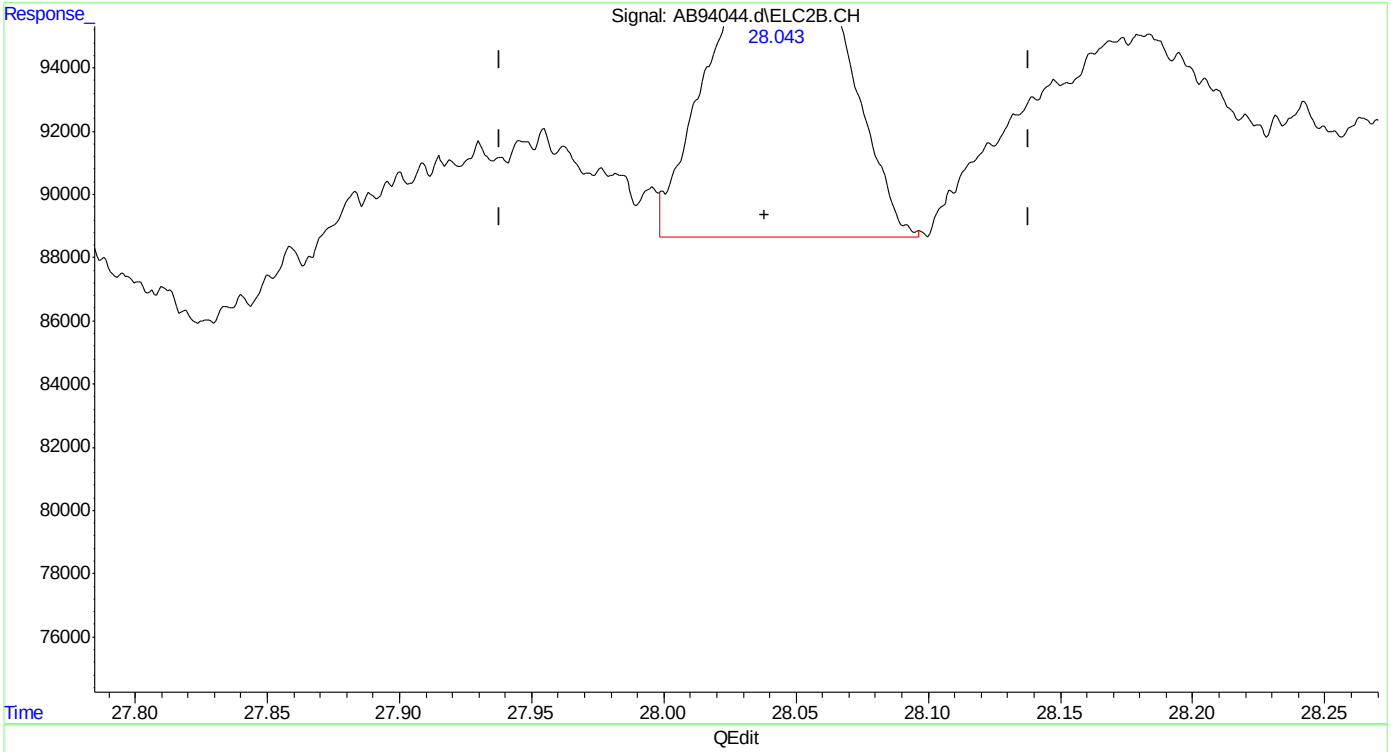
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94044.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:17:37 (#1); 12-May-16, 15:17:36 (#2)
Operator : tonyf
Sample : mc45816-2,s,vmavph,16
Misc : gc26234,gab5168,14.32,,100,16,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:11 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.043min 0.460 ppb m
response 332563

(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:26:43 2016

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 14:01:56
Operator  : tonyf
Sample    : mc45816-6,s,vmavph,16
Misc      : gc26234,gab5168,16.91,,100,16,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:57:59 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.136	22288138	50.639	ppb	
Spiked Amount 50.000		Recovery = 101.28%			
6) s 2,3,4-trifluorotoluene	20.193	18654095	45.503	ppb	
Spiked Amount 50.000		Recovery = 91.01%			
16) s fluorobenzene #2	15.133	42564811	50.537	ppb	
Spiked Amount 50.000		Recovery = 101.07%			
18) s 2,3,4-trifluorotoluen...	20.191	20763634	44.473	ppb	
Spiked Amount 50.000		Recovery = 88.95%			
Target Compounds					
1) h rt5.5-7	6.420	493865	1.230	ppb	m
2) h rt7/10	8.720	341570	0.851	ppb	m
3) h rt10/13	13.870	4306019	10.725	ppb	
8) h rt20/25	21.870	18275161	29.170	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	26751422	27.923	ppb	m

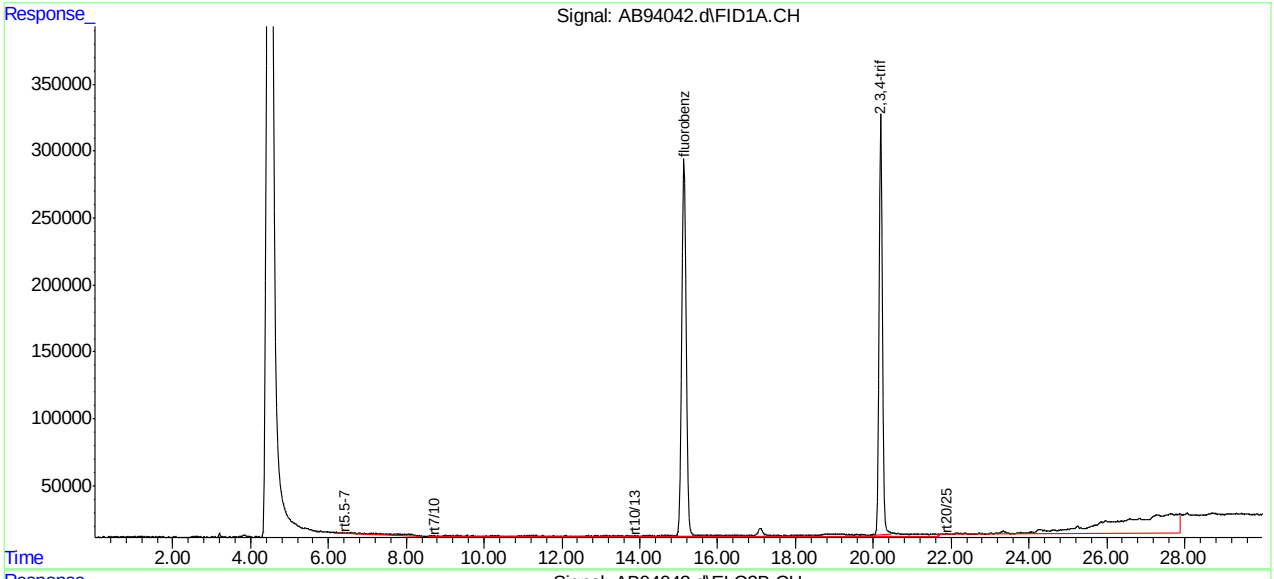
(f)=RT Delta > 1/2 Window (m)=manual int.

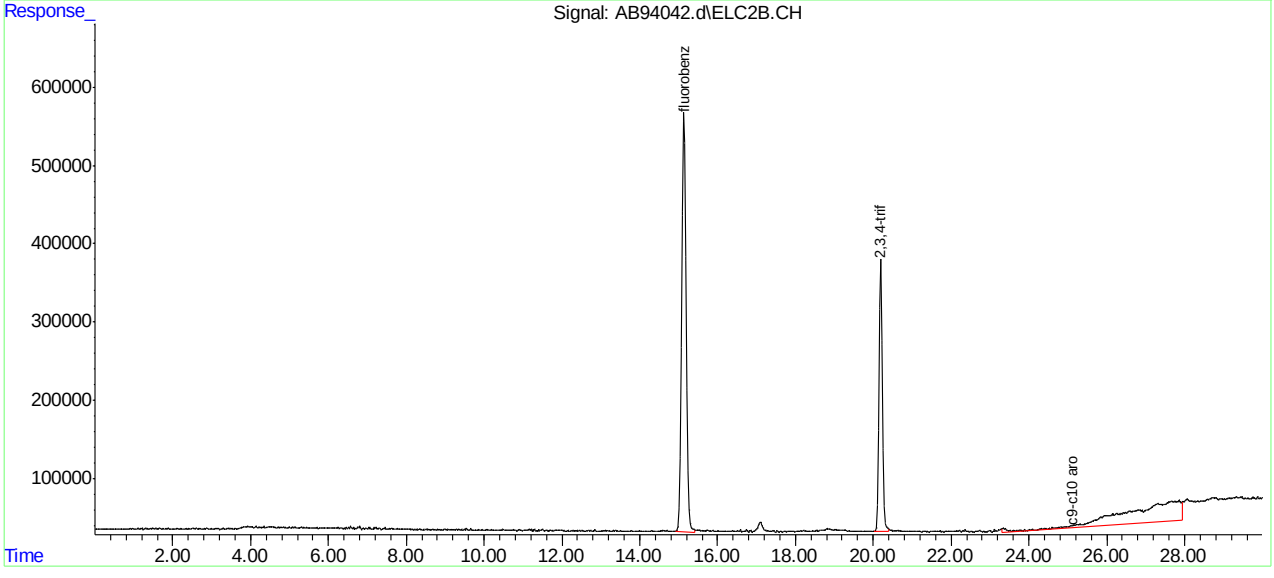
Quantitation Report (QT Reviewed)

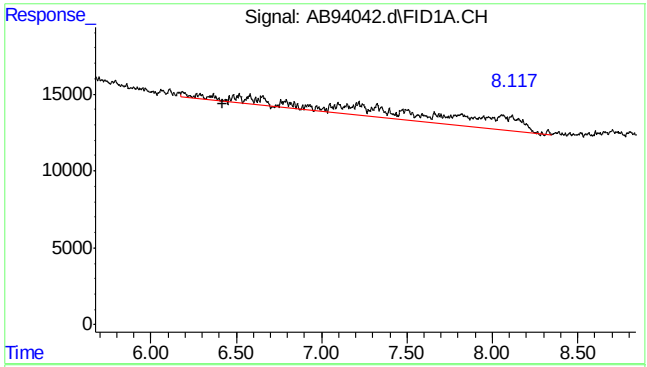
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:01:56
Operator : tonyf
Sample : mc45816-6,s,vmavph,16
Misc : gc26234,gab5168,16.91,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:57:59 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

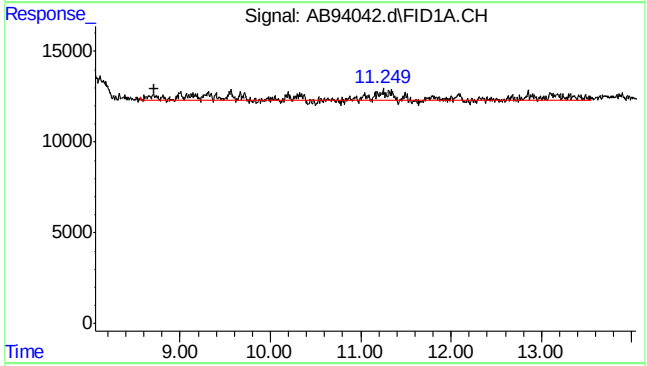






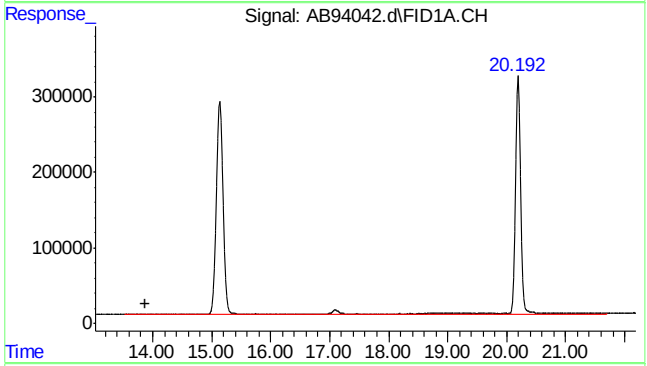
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 493865
Conc: 1.23 ppb m



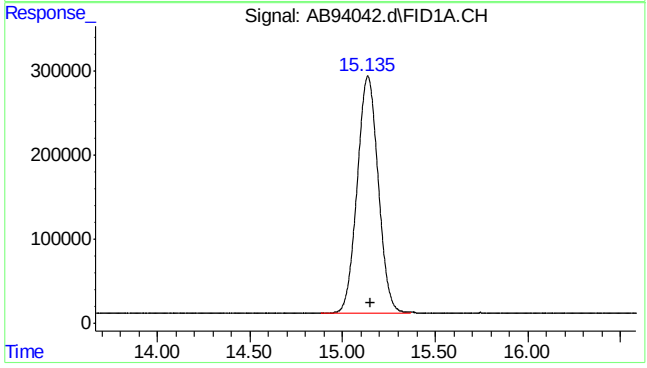
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 341570
Conc: 0.85 ppb m



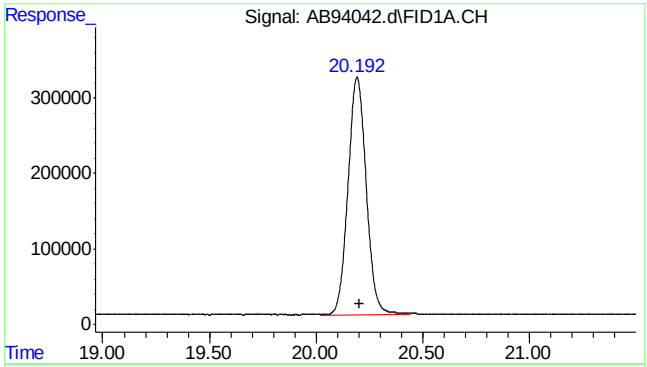
#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 4306019
Conc: 10.72 ppb



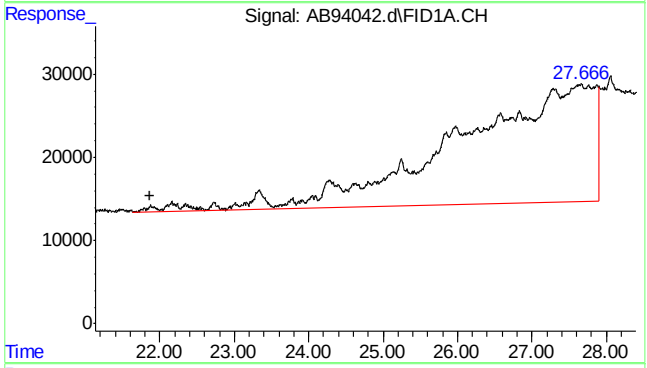
#4 fluorobenzene

R.T.: 15.136 min
Delta R.T.: -0.015 min
Response: 22288138
Conc: 50.64 ppb



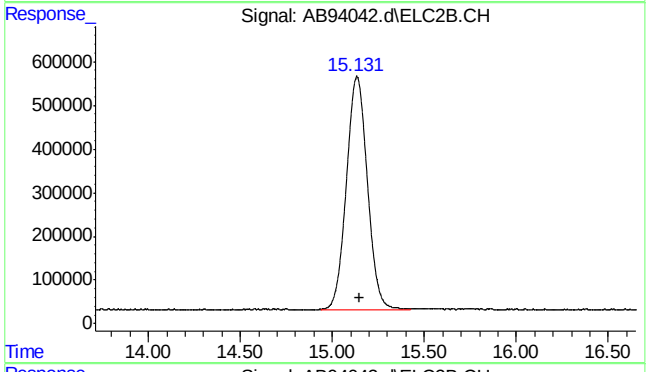
#6 2,3,4-trifluorotoluene

R.T.: 20.193 min
Delta R.T.: -0.013 min
Response: 18654095
Conc: 45.50 ppb



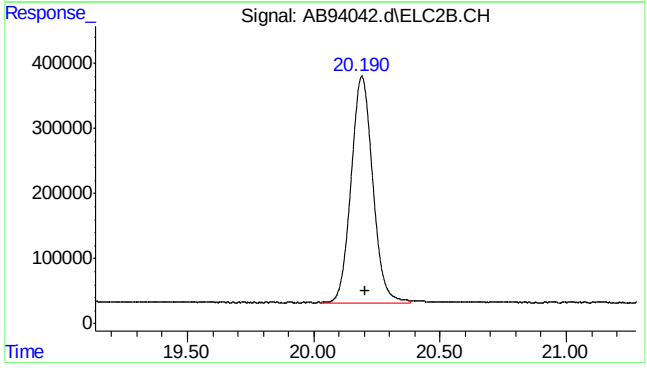
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 18275161
Conc: 29.17 ppb m



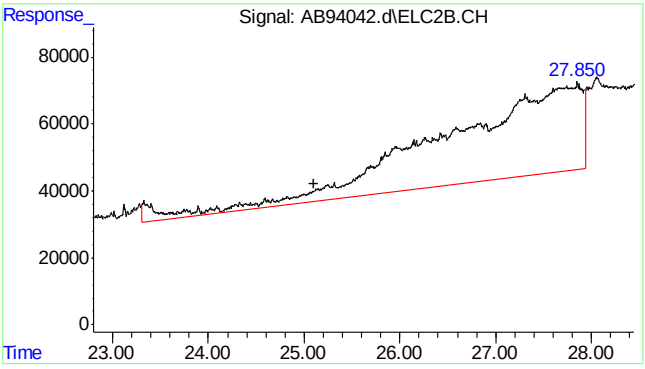
#16 fluorobenzene #2

R.T.: 15.133 min
Delta R.T.: -0.015 min
Response: 42564811
Conc: 50.54 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 20.191 min
Delta R.T.: -0.013 min
Response: 20763634
Conc: 44.47 ppb



#25 c9-c10 arom as 1,2,4-tmb

R.T.:	25.096 min
Delta R.T.:	0.000 min
Response:	26751422
Conc:	27.92 ppb m

7.1.2

7

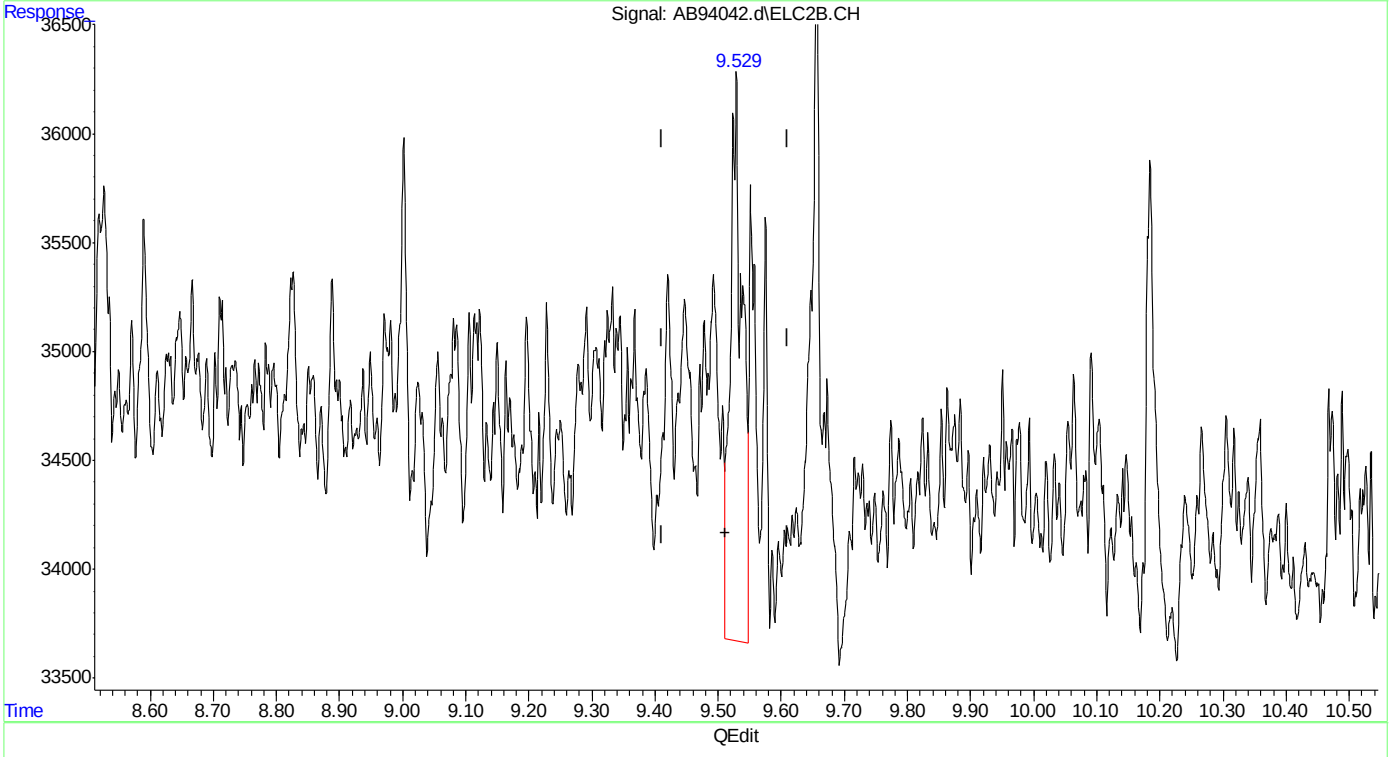
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:01:56
Operator : tonyf
Sample : mc45816-6,s,vmavph,16
Misc : gc26234,gab5168,16.91,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:56:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
9.529min 0.066 ppb
response 33538

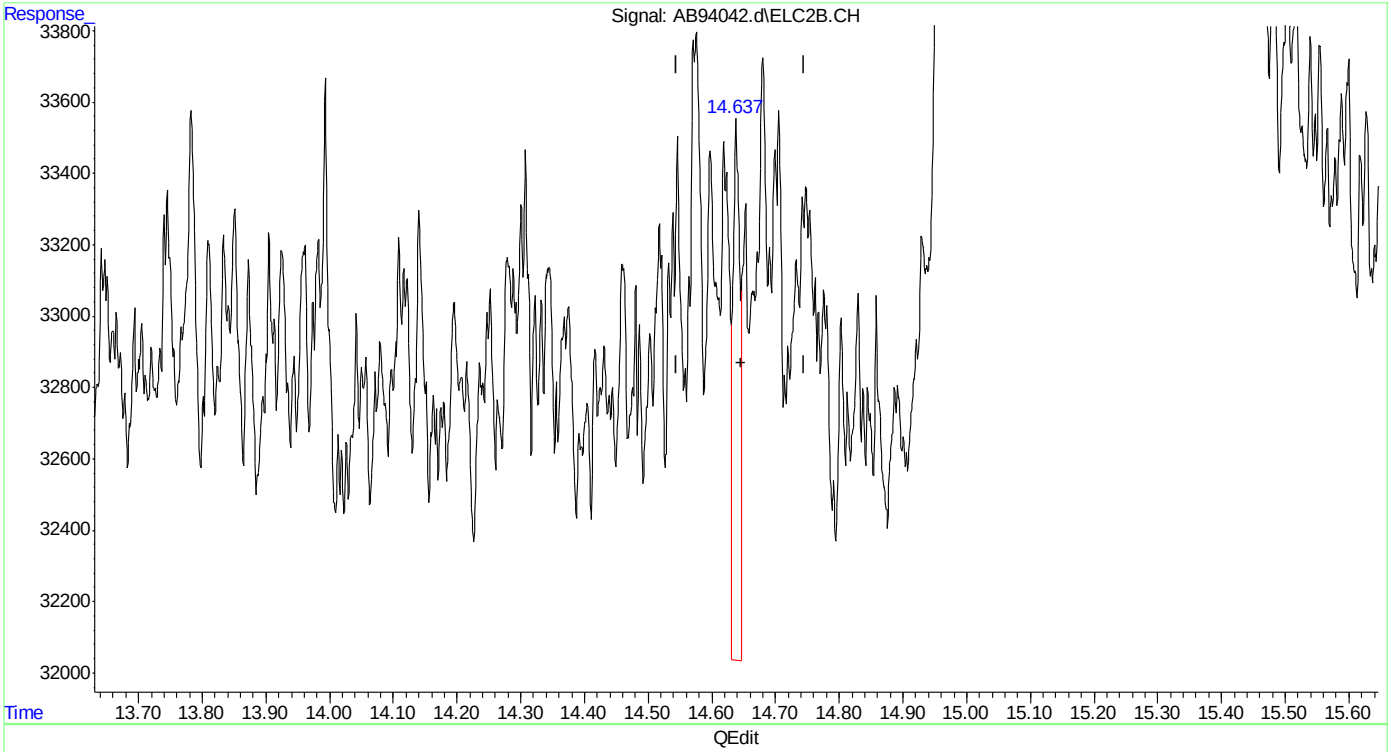
(+) = Expected Retention Time
ab160512vph.M Thu May 12 14:57:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:01:56
Operator : tonyf
Sample : mc45816-6,s,vmavph,16
Misc : gc26234,gab5168,16.91,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:56:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
14.638min 0.009 ppb
response 11421

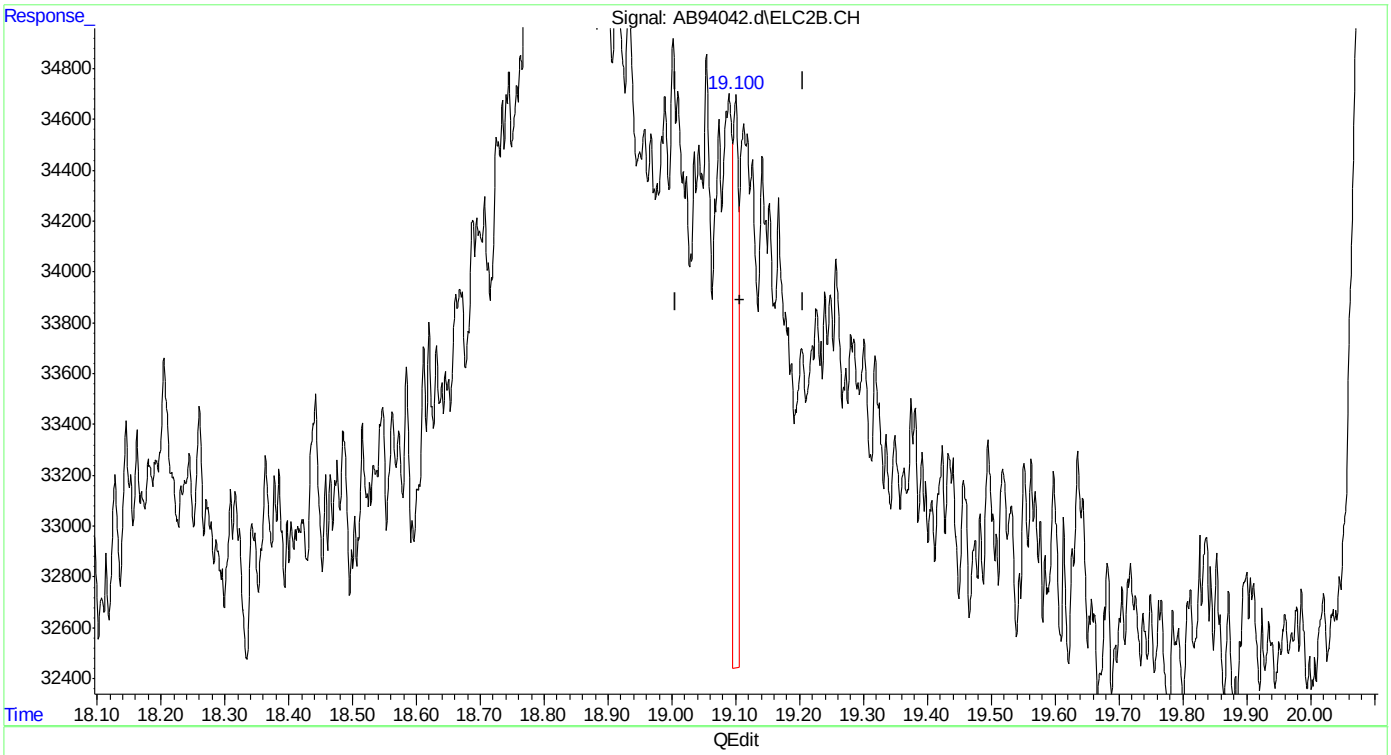
(+) = Expected Retention Time
ab160512vph.M Thu May 12 14:57:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:01:56
Operator : tonyf
Sample : mc45816-6,s,vmavph,16
Misc : gc26234,gab5168,16.91,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:56:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
19.100min 0.012 ppb
response 13610

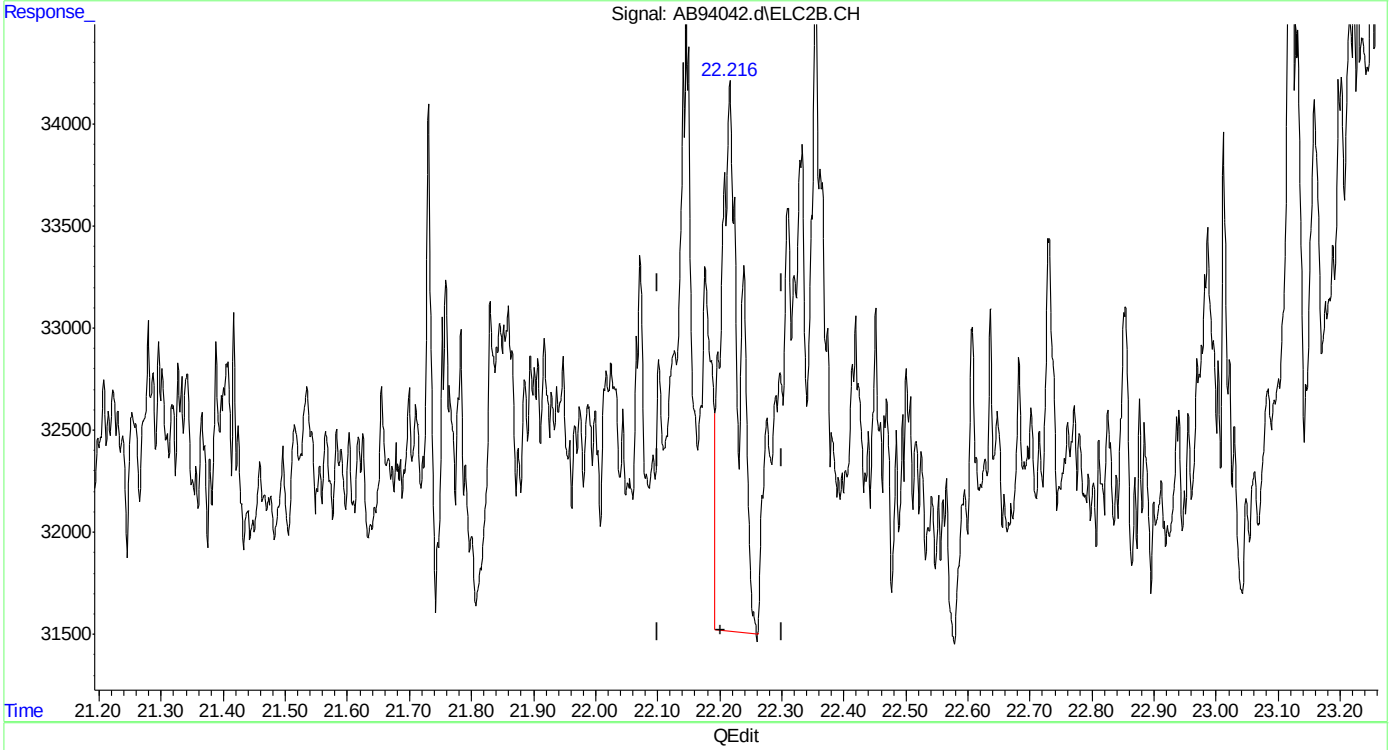
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:01:56
Operator : tonyf
Sample : mc45816-6,s,vmavph,16
Misc : gc26234,gab5168,16.91,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:56:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) ethylbenzene #2
22.216min 0.061 ppb
response 56096

(+) = Expected Retention Time
ab160512vph.M Thu May 12 14:57:36 2016

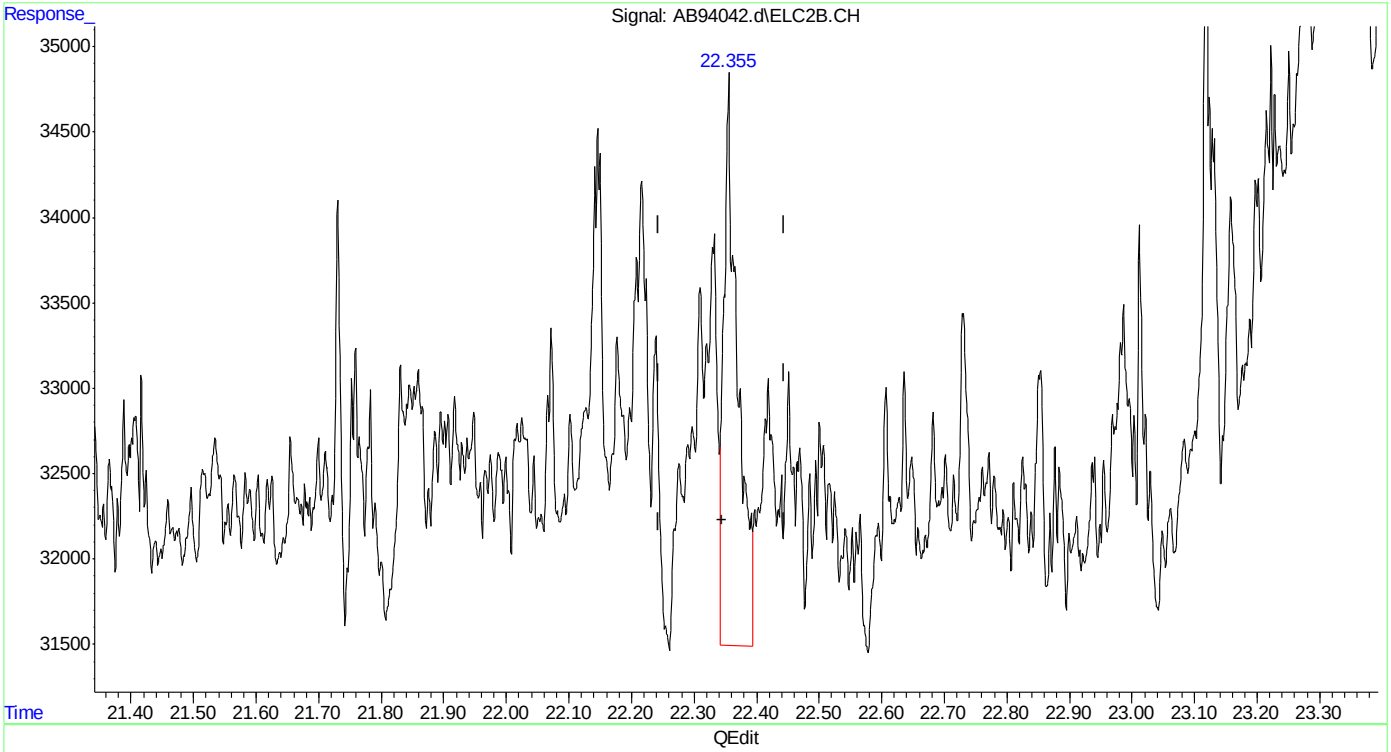
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:01:56
Operator : tonyf
Sample : mc45816-6,s,vmavph,16
Misc : gc26234,gab5168,16.91,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:56:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
22.355min 0.049 ppb
response 51923

(+) = Expected Retention Time
ab160512vph.M Thu May 12 14:57:40 2016

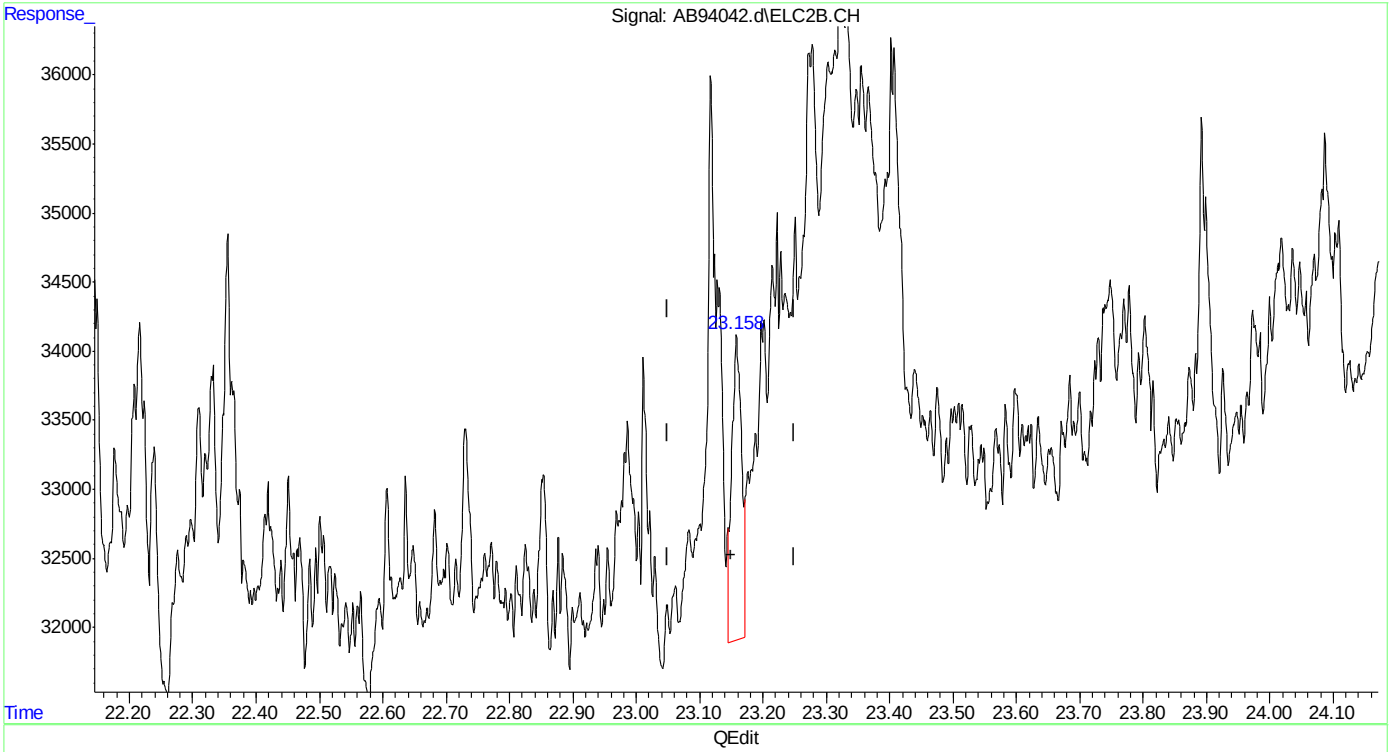
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:01:56
Operator : tonyf
Sample : mc45816-6,s,vmavph,16
Misc : gc26234,gab5168,16.91,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:56:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
23.159min 0.026 ppb
response 23909

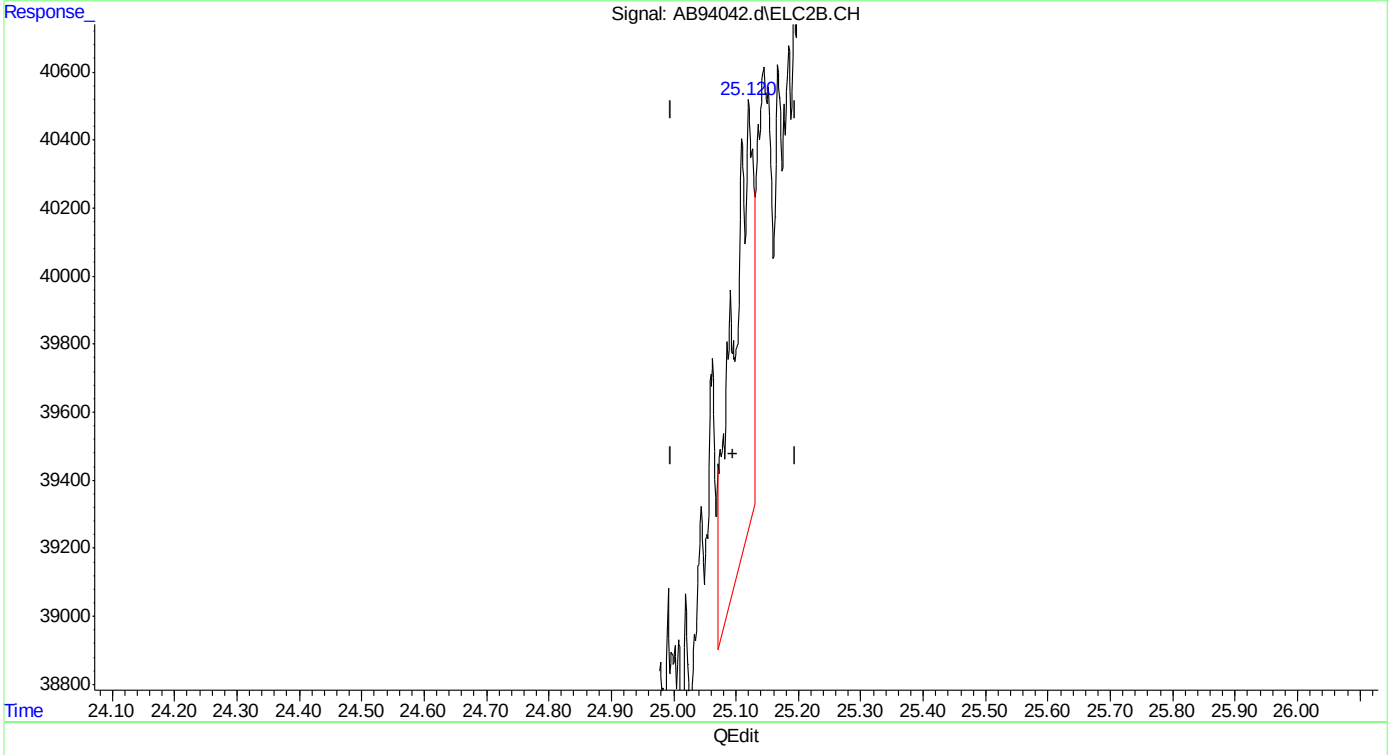
(+) = Expected Retention Time
ab160512vph.M Thu May 12 14:57:44 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:01:56
Operator : tonyf
Sample : mc45816-6,s,vmavph,16
Misc : gc26234,gab5168,16.91,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:56:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.122min 0.031 ppb
response 29443

(+) = Expected Retention Time
ab160512vph.M Thu May 12 14:57:50 2016

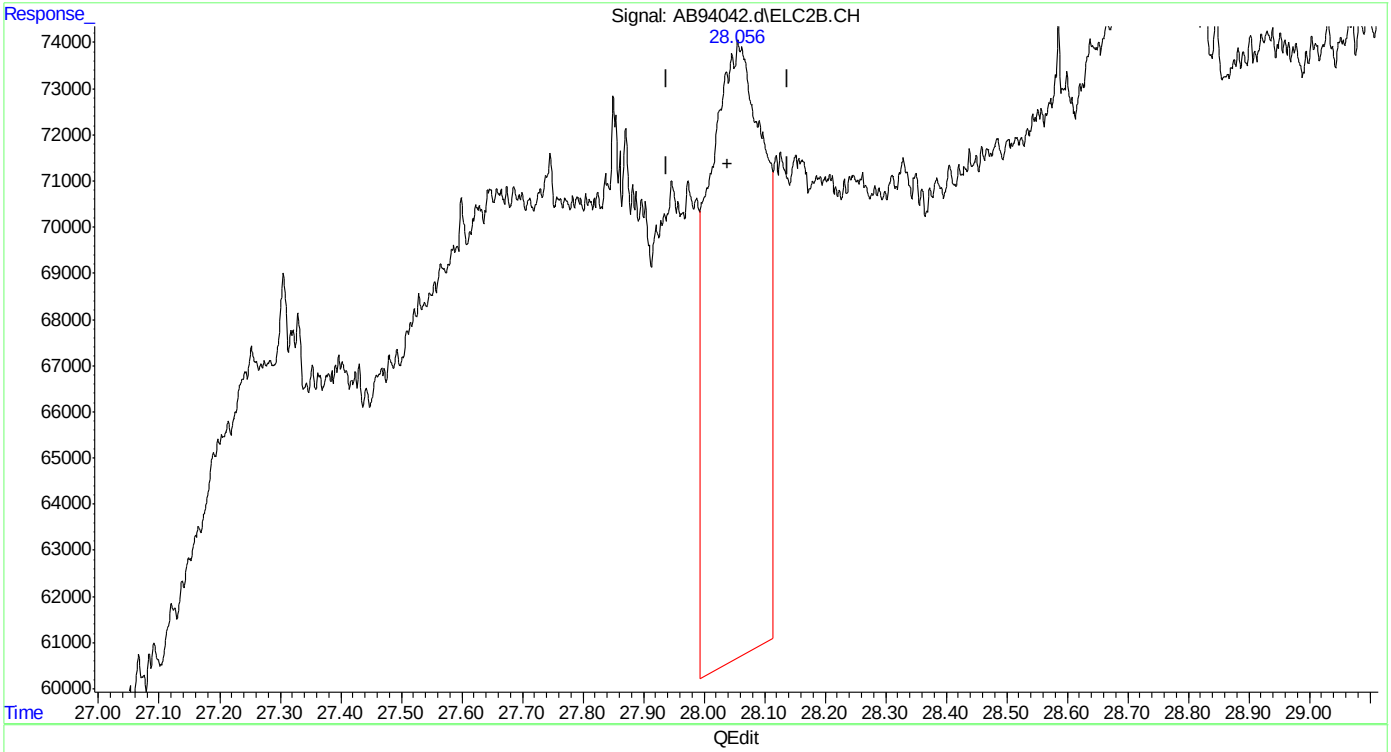
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94042.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:01:56
Operator : tonyf
Sample : mc45816-6,s,vmavph,16
Misc : gc26234,gab5168,16.91,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 14:56:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.059min 1.170 ppb
response 846052

(+) = Expected Retention Time
ab160512vph.M Thu May 12 14:57:53 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/17/16 09:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:14:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.137	22651260	51.464	ppb	
Spiked Amount 50.000		Recovery = 102.93%			
6) s 2,3,4-trifluorotoluene	20.193	20181400	49.229	ppb	
Spiked Amount 50.000		Recovery = 98.46%			
16) s fluorobenzene #2	15.136	42692152	50.689	ppb	
Spiked Amount 50.000		Recovery = 101.38%			
18) s 2,3,4-trifluorotoluen...	20.191	22107251	47.351	ppb	
Spiked Amount 50.000		Recovery = 94.70%			
Target Compounds					
1) h rt5.5-7	6.420	613694	1.528	ppb	m
2) h rt7/10	8.720	312971	0.779	ppb	m
3) h rt10/13	13.870	57678912	143.655	ppb	m
8) h rt20/25	21.870	1971491632	3146.816	ppb	m
17) toluene #2	19.058	27681	0.024	ppb	
21) o-xylene #2	23.152	1000854	1.071	ppb	m
24) naphthalene #2	28.049	8877401	12.280	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	1577896968	1646.997	ppb	m

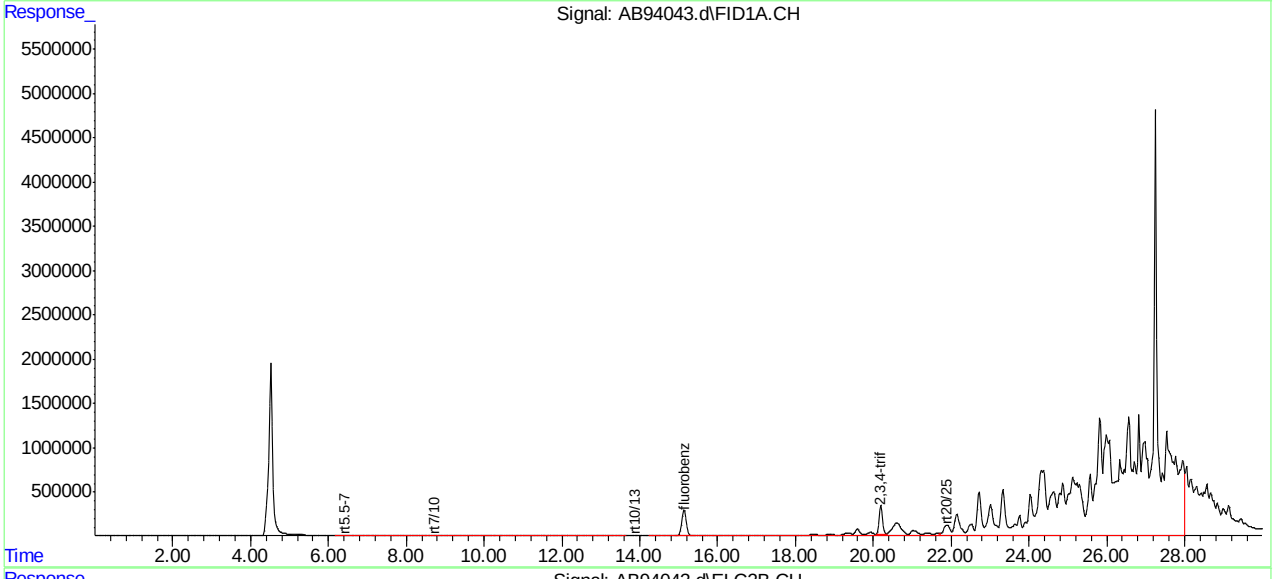
(f)=RT Delta > 1/2 Window (m)=manual int.

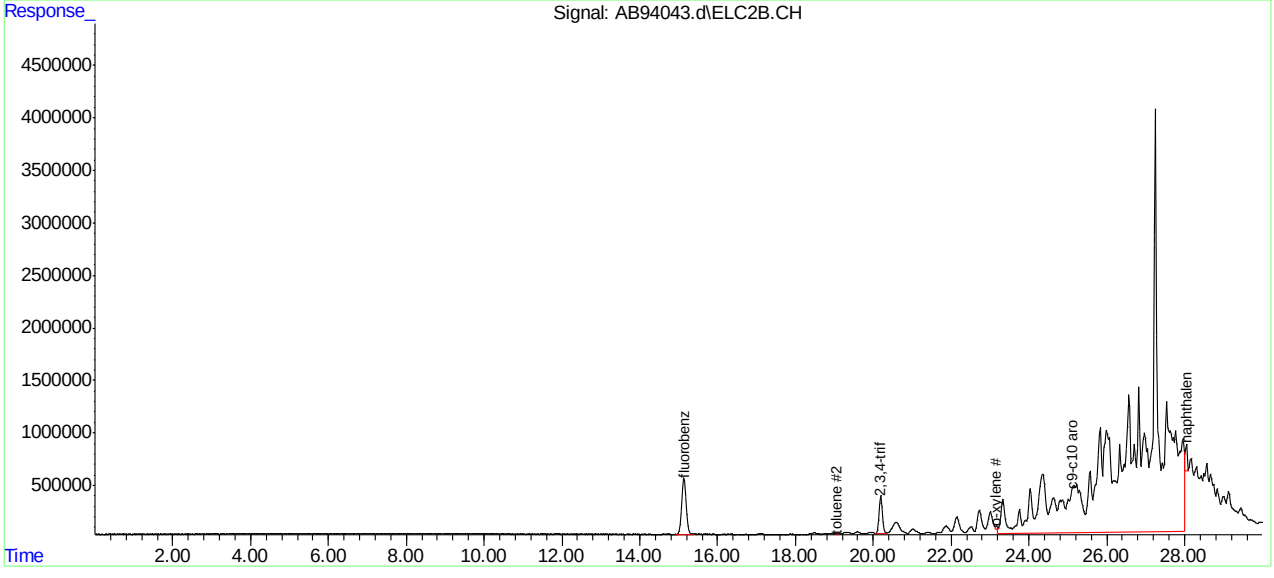
Quantitation Report (QT Reviewed)

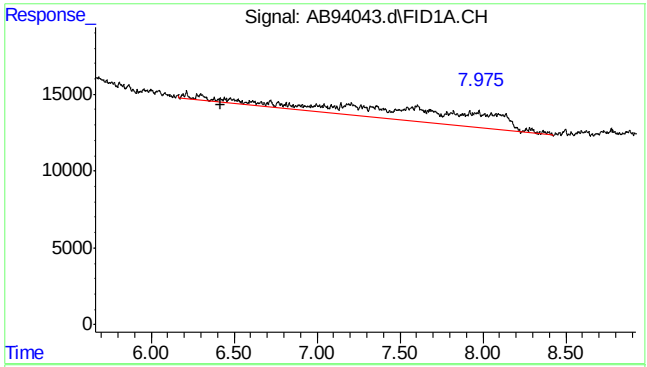
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:14:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

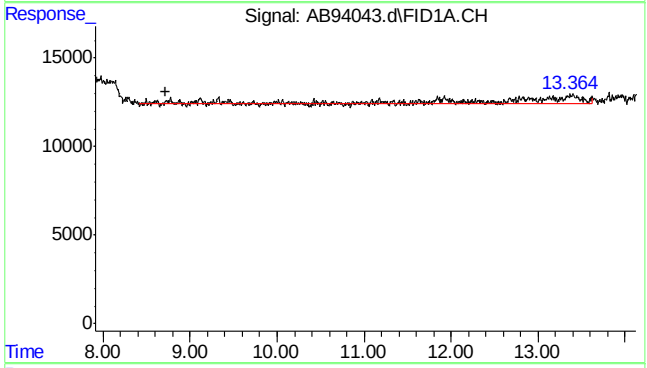






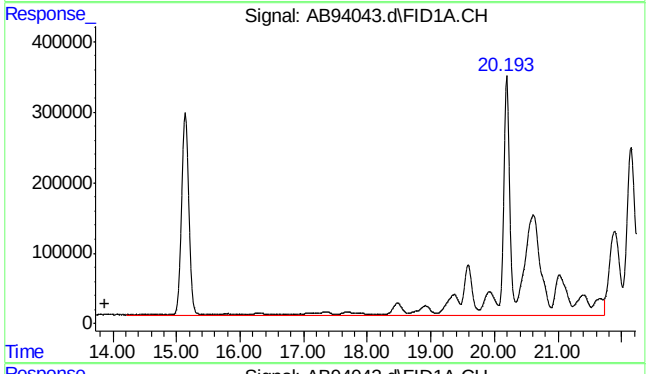
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 613694
Conc: 1.53 ppb m



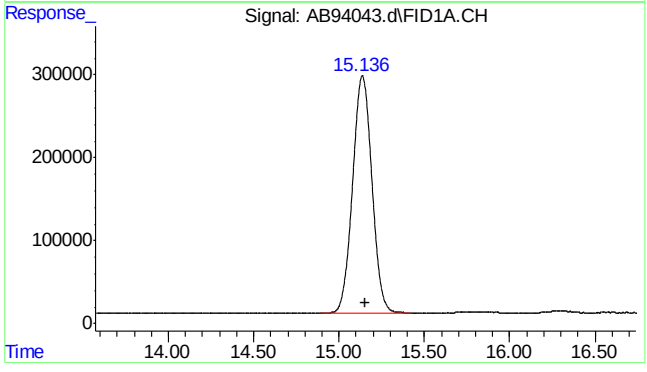
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 312971
Conc: 0.78 ppb m



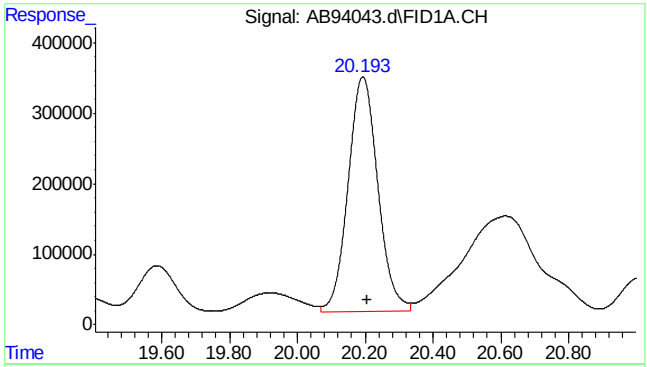
#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 57678912
Conc: 143.66 ppb m



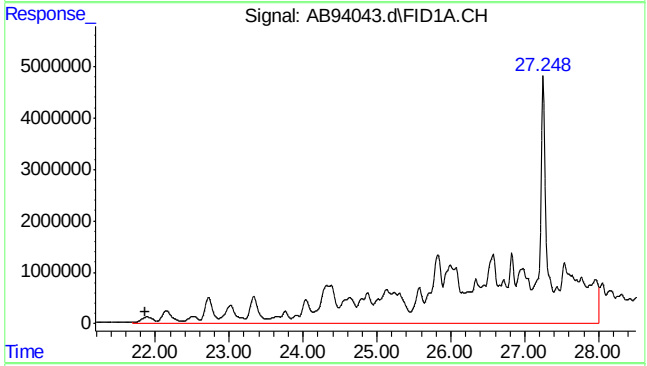
#4 fluorobenzene

R.T.: 15.137 min
Delta R.T.: -0.014 min
Response: 22651260
Conc: 51.46 ppb



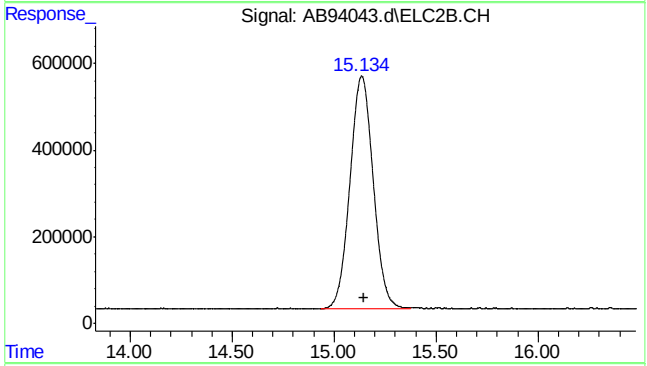
#6 2,3,4-trifluorotoluene

R.T.: 20.193 min
Delta R.T.: -0.012 min
Response: 20181400
Conc: 49.23 ppb



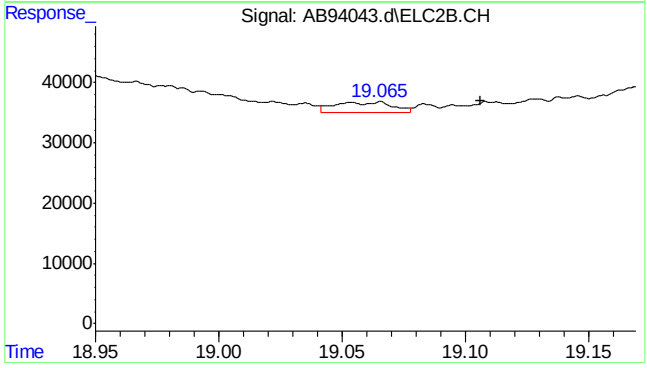
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 1971491632
Conc: 3146.82 ppb m



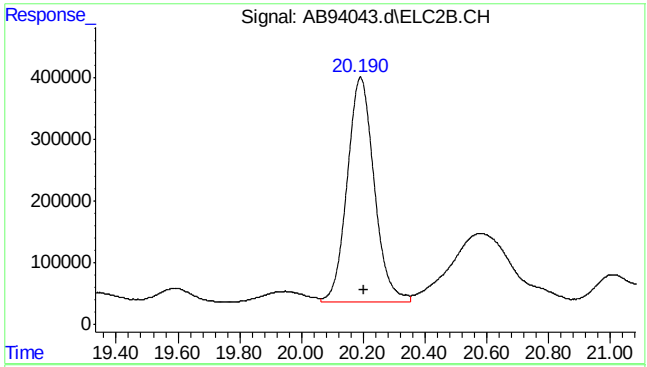
#16 fluorobenzene #2

R.T.: 15.136 min
Delta R.T.: -0.012 min
Response: 42692152
Conc: 50.69 ppb



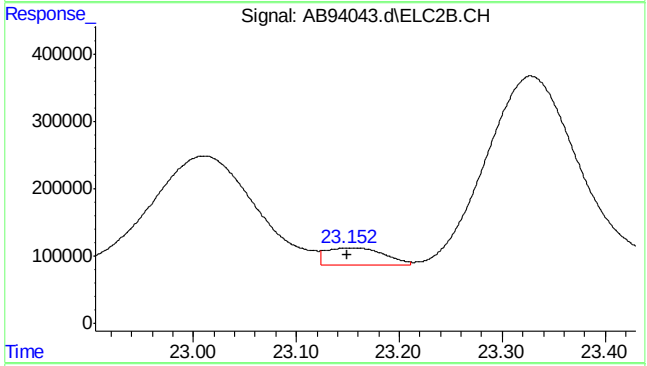
#17 toluene #2

R.T.: 19.058 min
Delta R.T.: -0.048 min
Response: 27681
Conc: 0.02 ppb



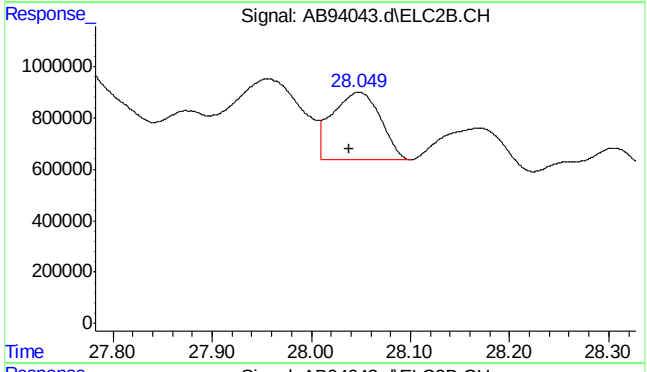
#18 2,3,4-trifluorotoluene #2

R.T.: 20.191 min
Delta R.T.: -0.012 min
Response: 22107251
Conc: 47.35 ppb



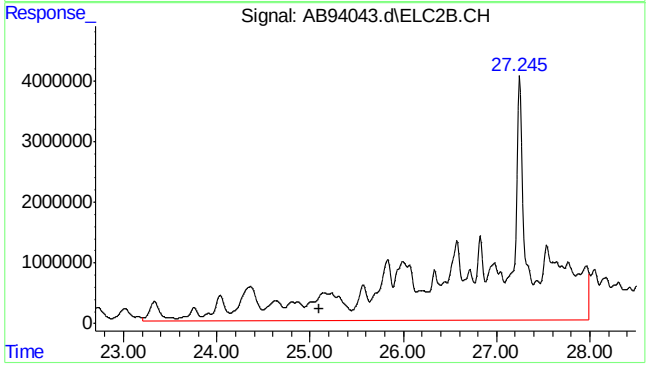
#21 o-xylene #2

R.T.: 23.152 min
Delta R.T.: 0.002 min
Response: 1000854
Conc: 1.07 ppb m



#24 naphthalene #2

R.T.: 28.049 min
Delta R.T.: 0.011 min
Response: 8877401
Conc: 12.28 ppb m



#25 c9-c10 arom as 1,2,4-tmb

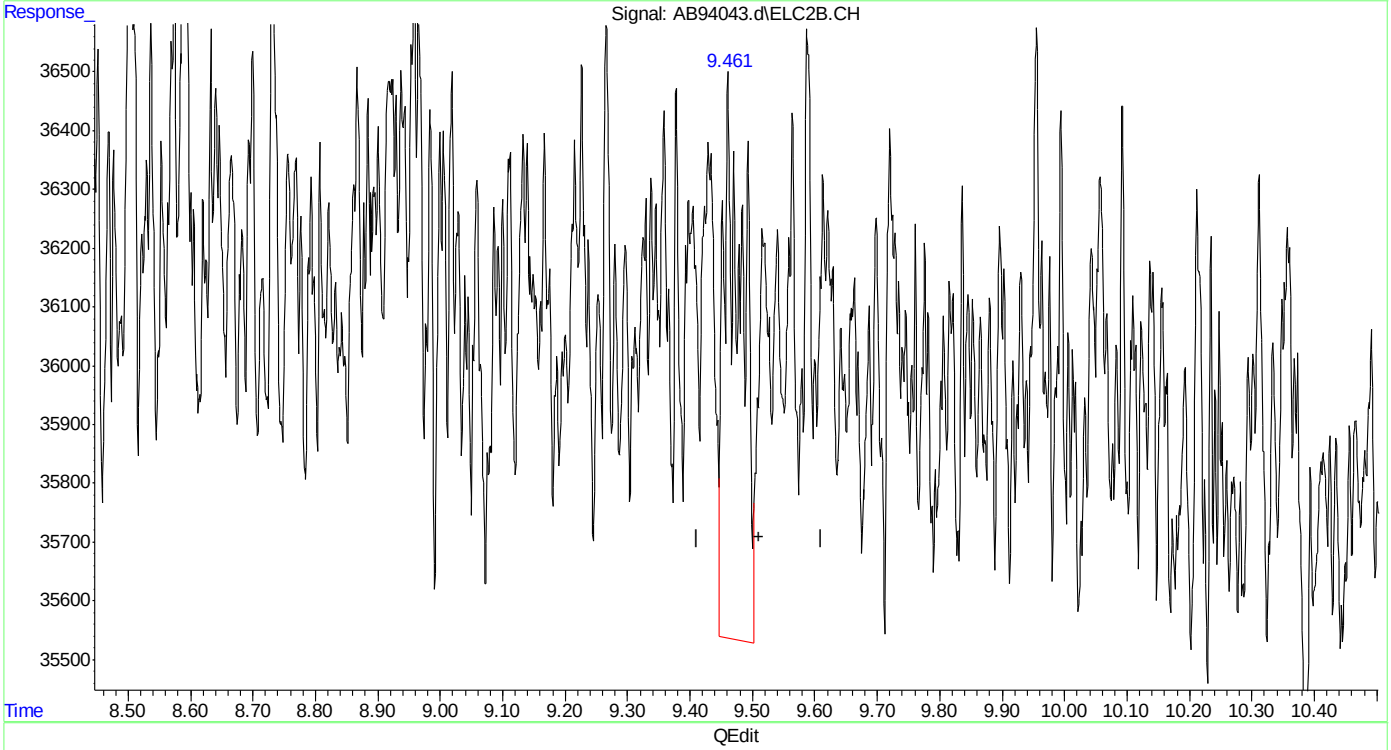
R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 1577896968
Conc: 1647.00 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:09:29 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
9.461min 0.040 ppb
response 20091

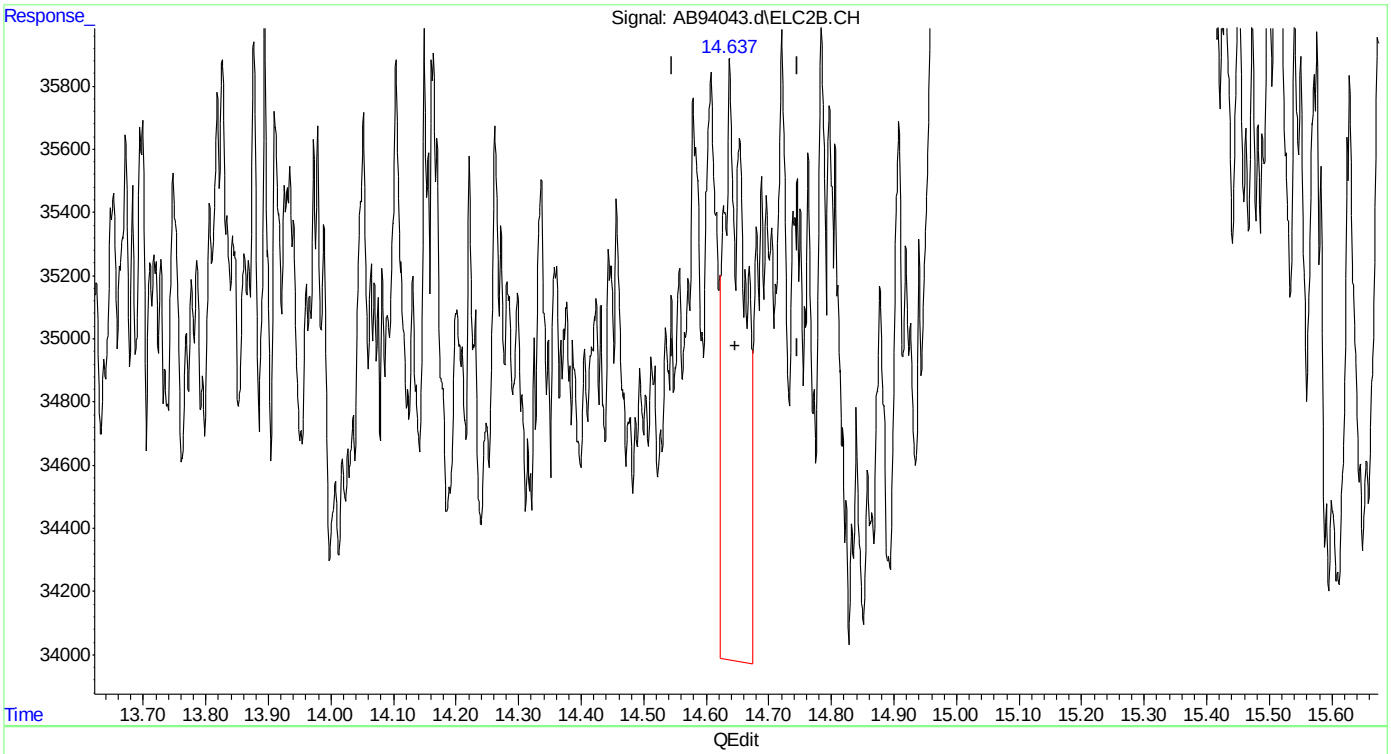
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:09:29 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
14.638min 0.033 ppb
response 43237

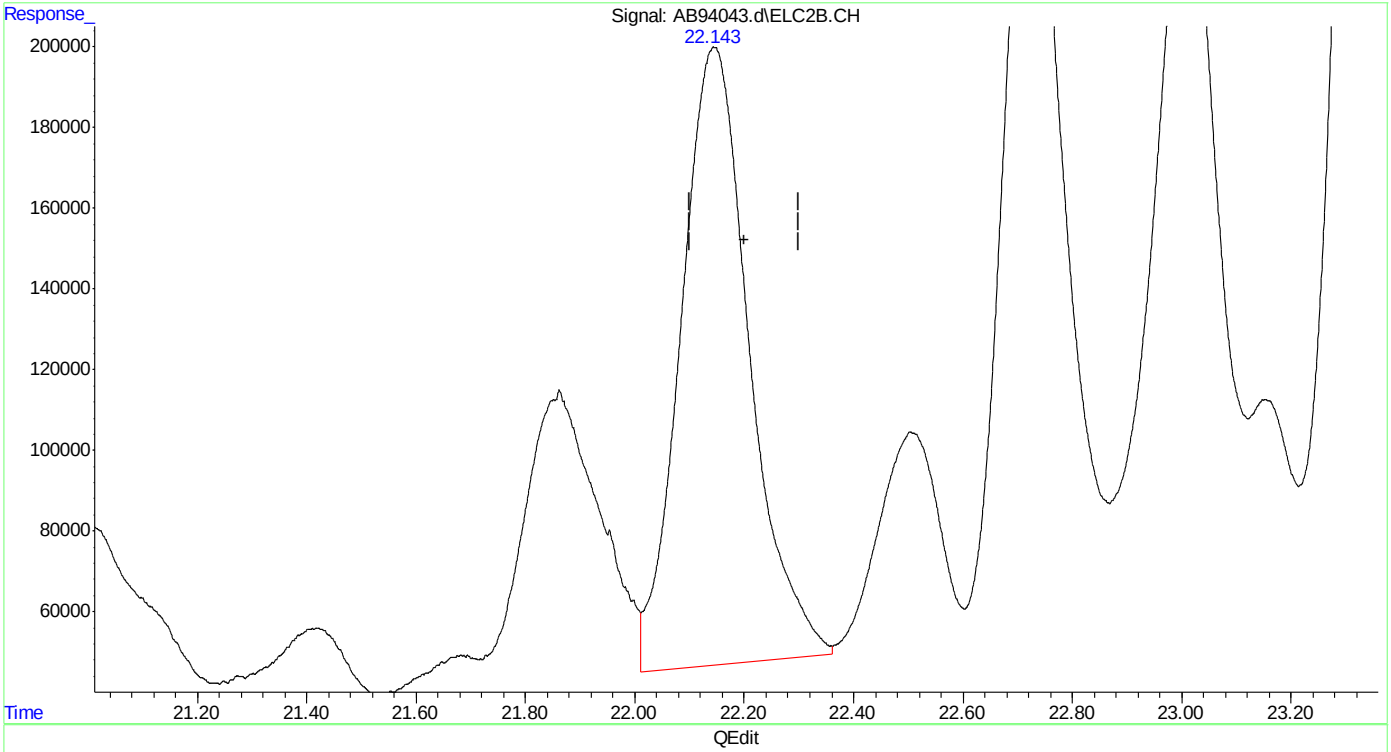
(+) = Expected Retention Time
ab160512vph.M Thu May 12 15:11:15 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:09:29 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) ethylbenzene #2
22.145min 14.432 ppb
response 13362166

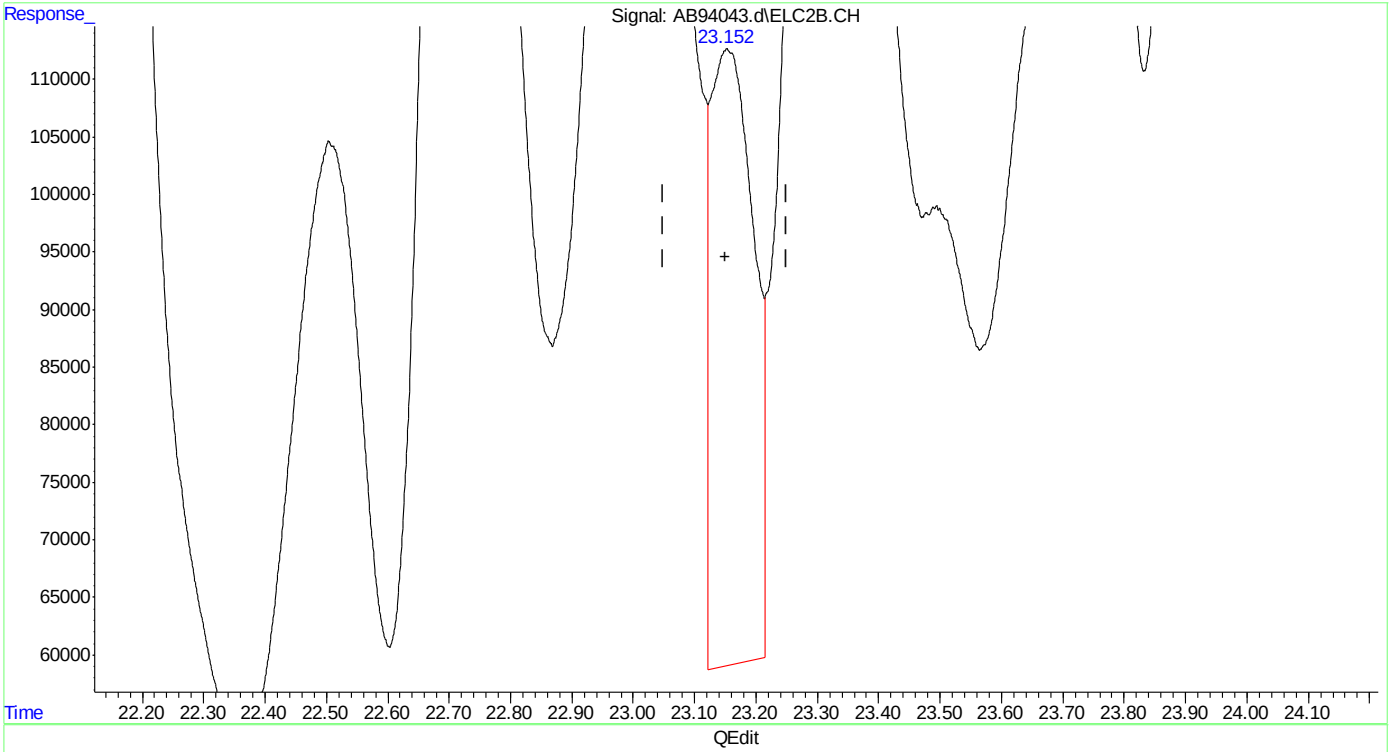
(+) = Expected Retention Time
ab160512vph.M Thu May 12 15:11:28 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:09:29 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
23.154min 2.742 ppb
response 2561743

(+) = Expected Retention Time
ab160512vph.M Thu May 12 15:11:39 2016

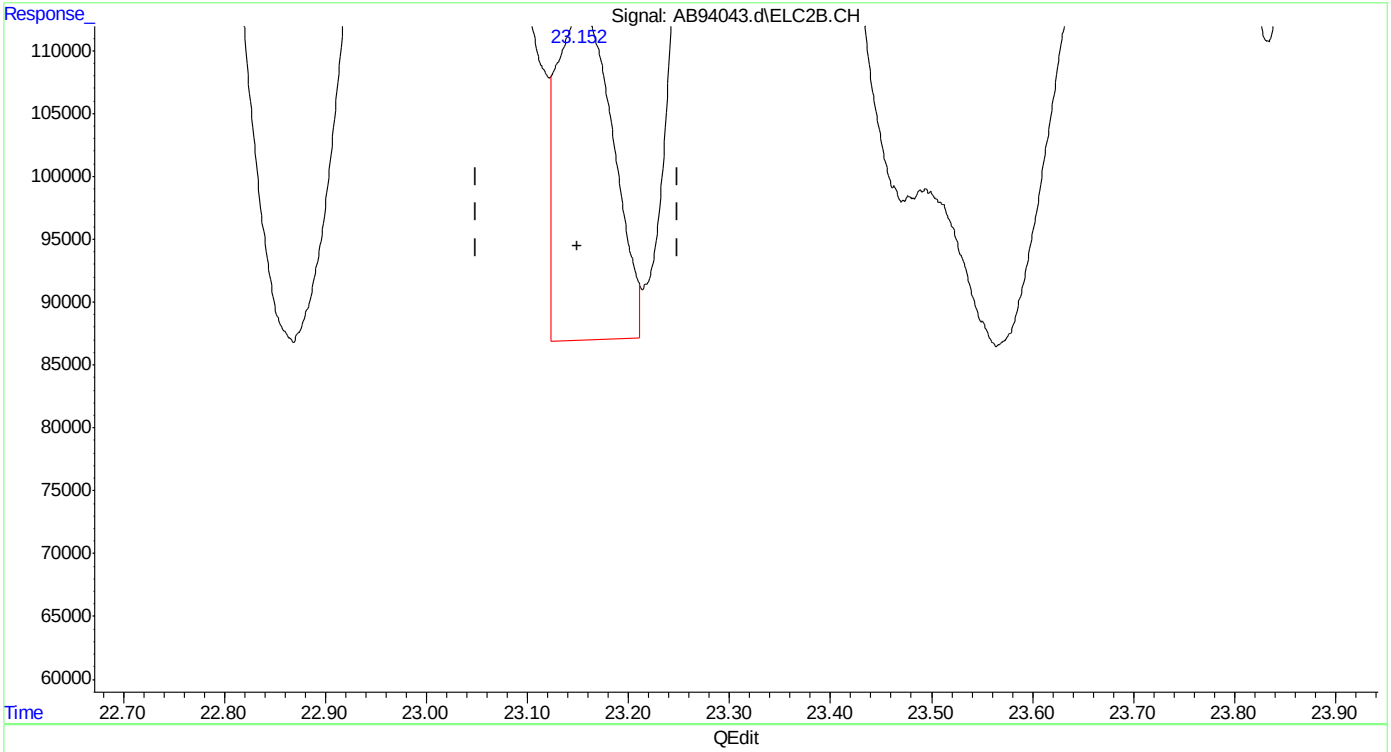
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:09:29 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
23.152min 1.071 ppb m
response 1000854

(+) = Expected Retention Time
ab160512vph.M Thu May 12 15:12:03 2016

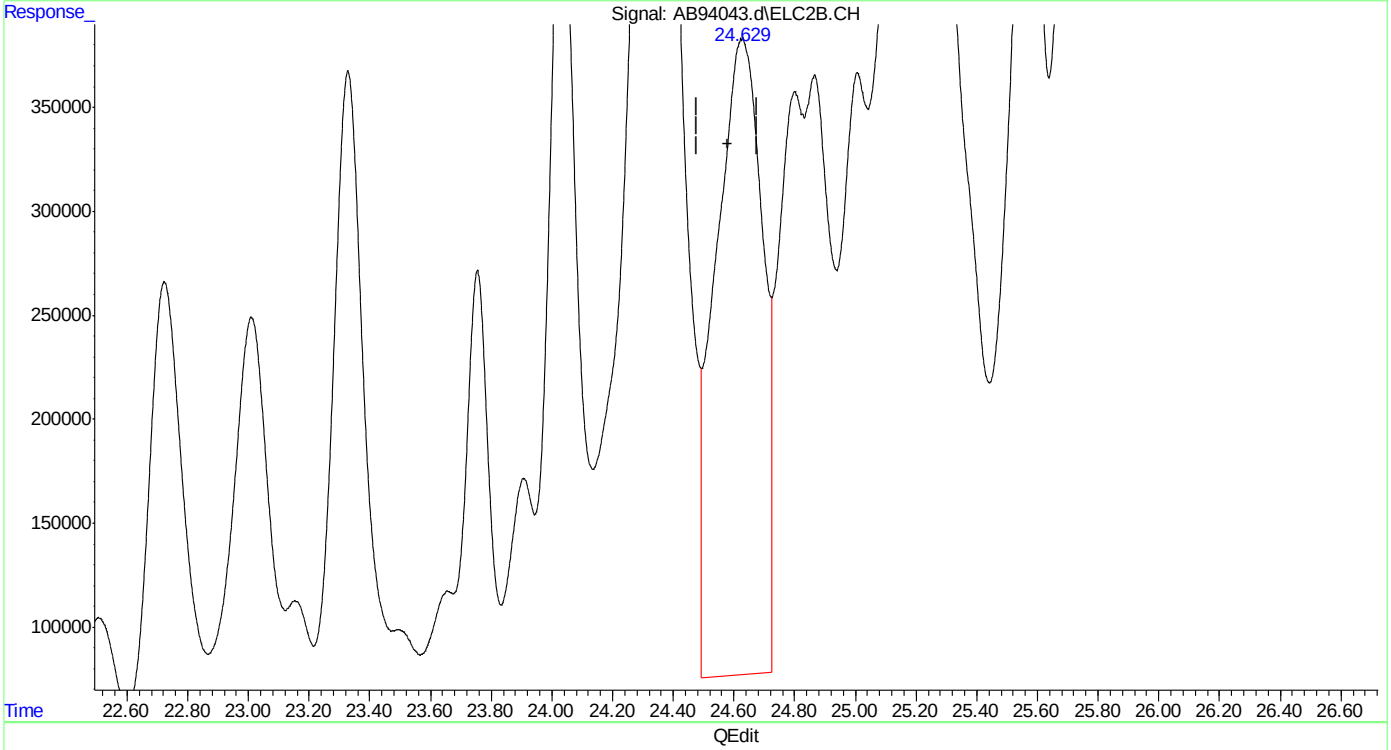
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:09:29 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(22) 1,3,5-trimethylbenzene #2 (t)
24.627min 25.128 ppb
response 32829588

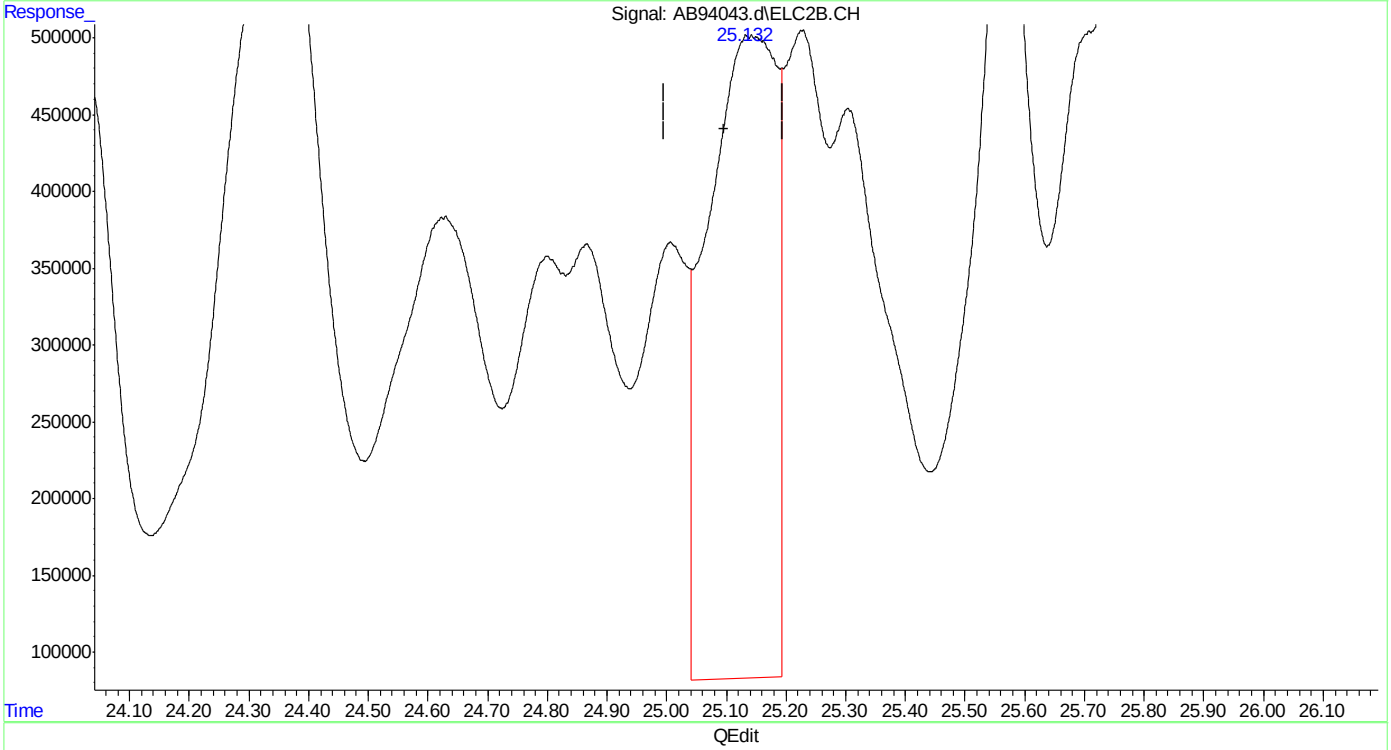
(+) = Expected Retention Time
ab160512vph.M Thu May 12 15:12:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:09:29 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.142min 34.900 ppb
response 33400977

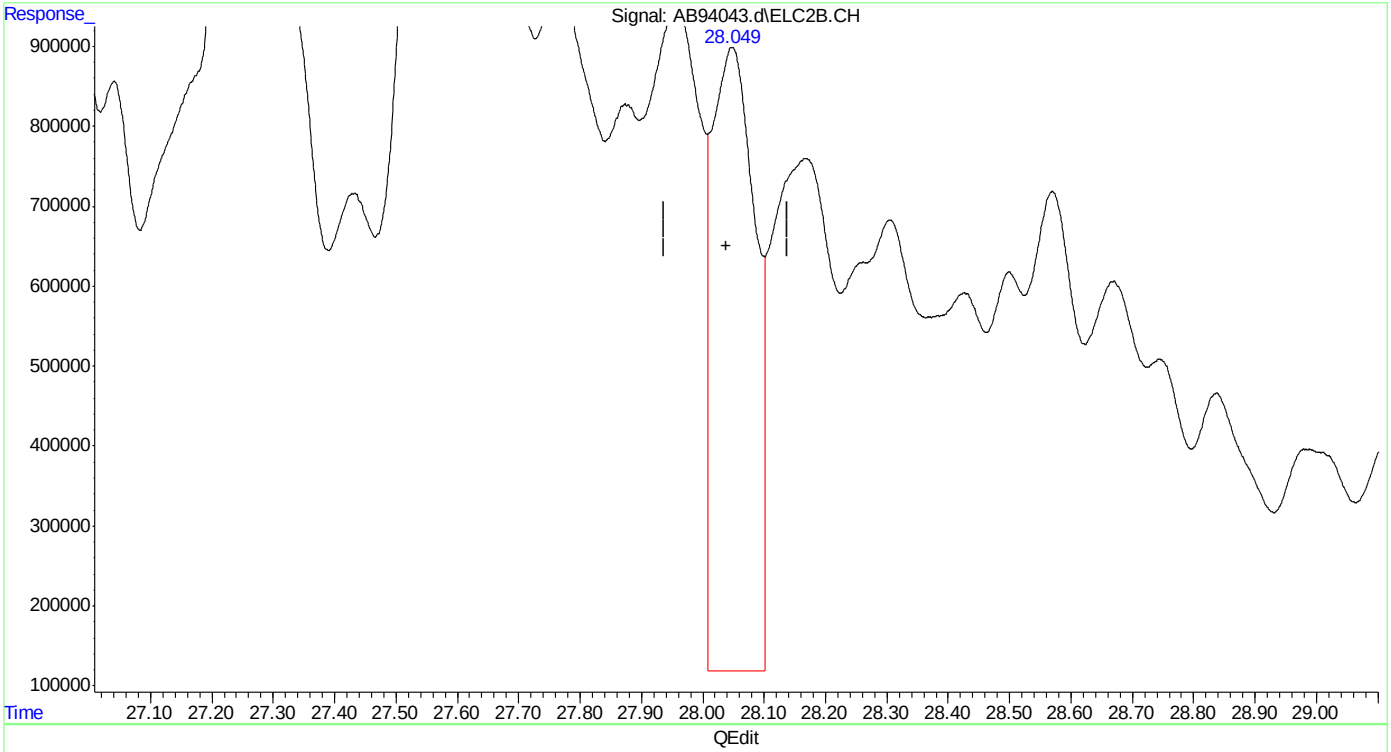
(+) = Expected Retention Time
ab160512vph.M Thu May 12 15:12:26 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 14:39:12
Operator  : tonyf
Sample    : mc45816-7,s,vmavph,16
Misc      : gc26234,gab5168,16.14,,100,16,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:09:29 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.048min 52.136 ppb

response 37689469

(+) = Expected Retention Time

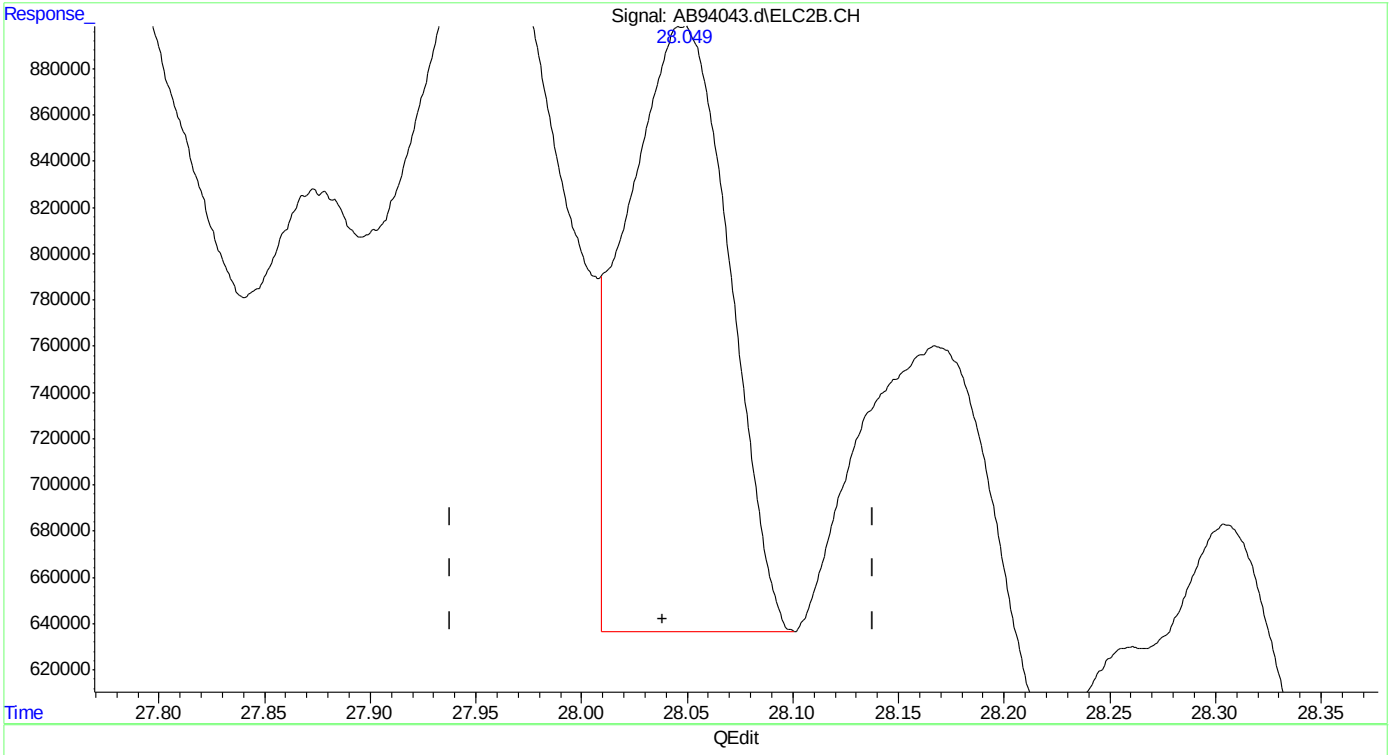
ab160512vph.M Thu May 12 15:12:39 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94043.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 14:39:12
Operator : tonyf
Sample : mc45816-7,s,vmavph,16
Misc : gc26234,gab5168,16.14,,100,16,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 15:09:29 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.049min 12.280 ppb m
response 8877401

(+) = Expected Retention Time
ab160512vph.M Thu May 12 15:12:58 2016

SGS ACCUTEST MC45816A

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/17/16 09:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 11:31:06
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26234,gab5168,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:03:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.135	29110376	66.139	ppb	
Spiked Amount 50.000		Recovery = 132.28%			
6) s 2,3,4-trifluorotoluene	20.191	24507737	59.782	ppb	
Spiked Amount 50.000		Recovery = 119.56%			
16) s fluorobenzene #2	15.132	55722379	66.159	ppb	
Spiked Amount 50.000		Recovery = 132.32%			
18) s 2,3,4-trifluorotoluen...	20.188	27690003	59.309	ppb	
Spiked Amount 50.000		Recovery = 118.62%			
Target Compounds					
1) h rt5.5-7	6.420	955252	2.379	ppb	m
2) h rt7/10	8.720	434290	1.082	ppb	m
3) h rt10/13	13.870	3279170	8.167	ppb	
8) h rt20/25	21.870	12992818	20.739	ppb	m
24) naphthalene #2	28.050	519156	0.718	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	25301473	26.409	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

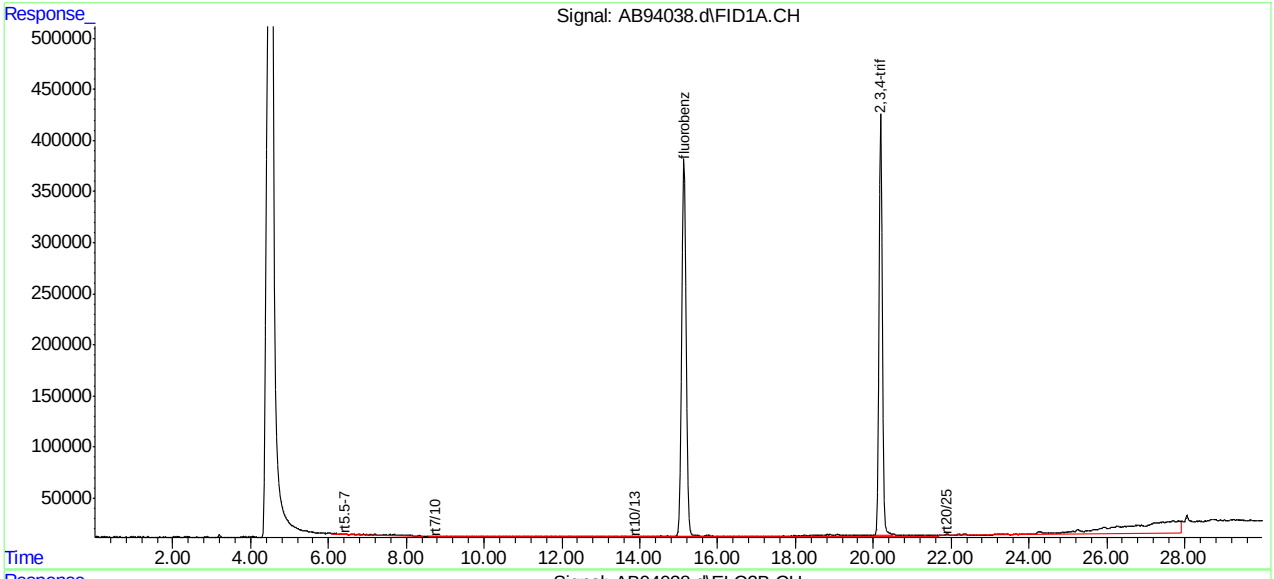
SGS ACCUTEST MC45816A

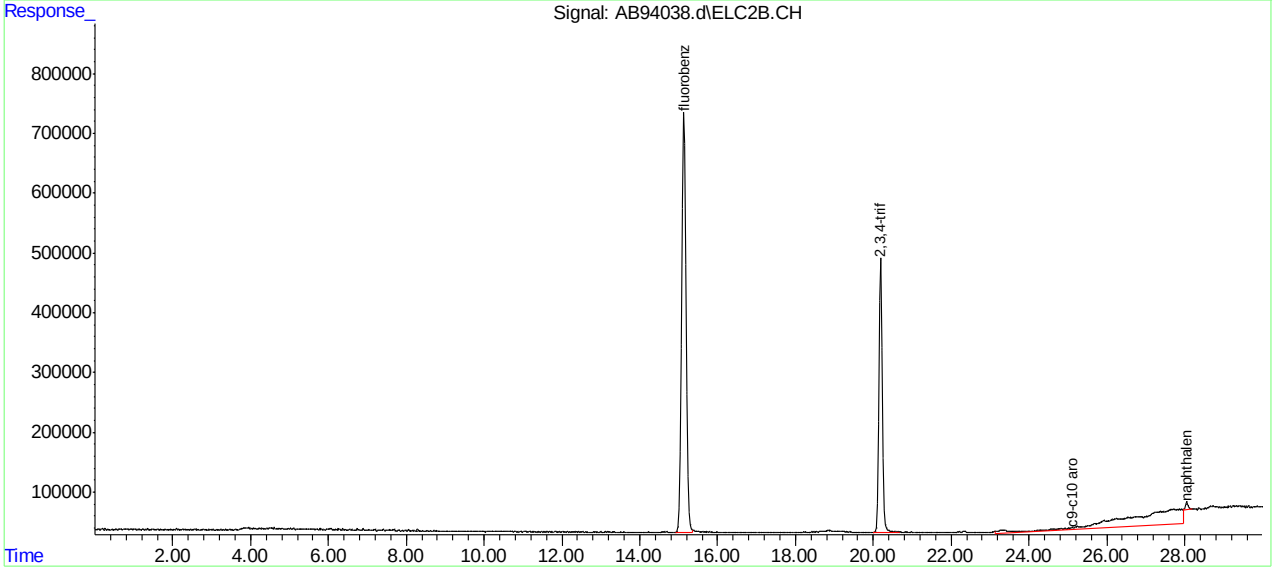
Quantitation Report (QT Reviewed)

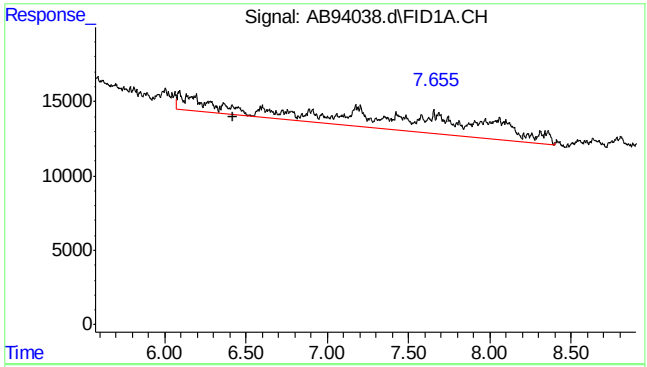
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 11:31:06
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26234,gab5168,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:03:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

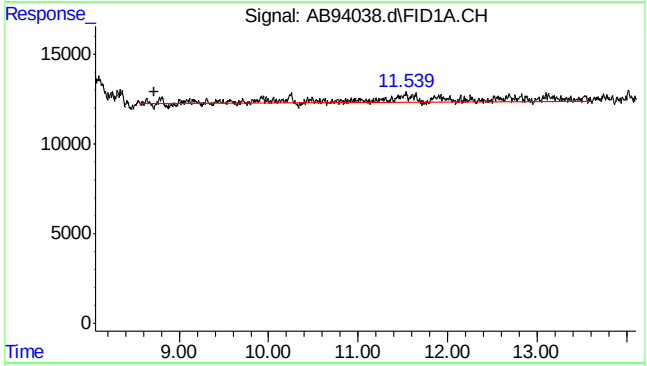






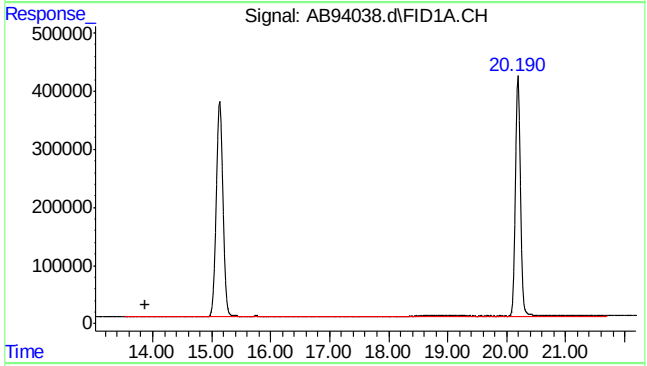
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 955252
Conc: 2.38 ppb m



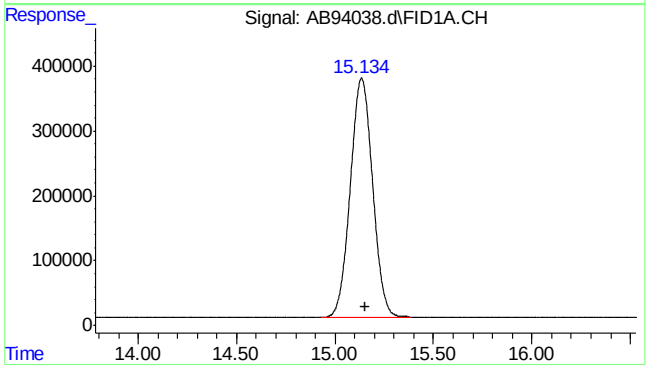
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 434290
Conc: 1.08 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 3279170
Conc: 8.17 ppb



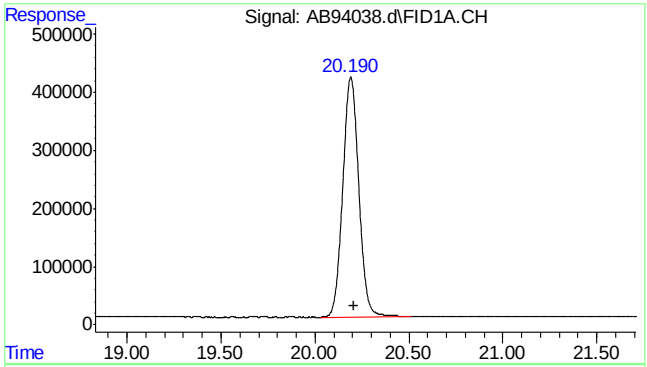
#4 fluorobenzene

R.T.: 15.135 min
Delta R.T.: -0.016 min
Response: 29110376
Conc: 66.14 ppb

7.2.1

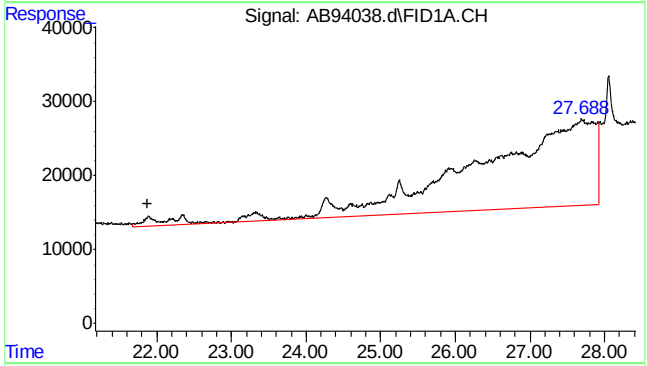
7

SGS ACCUTEST MC45816A



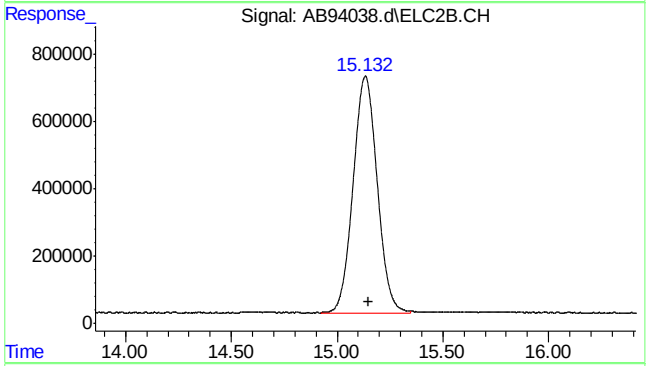
#6 2,3,4-trifluorotoluene

R.T.: 20.191 min
Delta R.T.: -0.015 min
Response: 24507737
Conc: 59.78 ppb



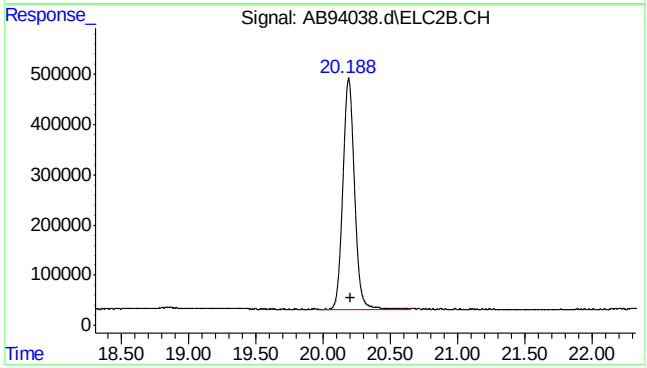
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 12992818
Conc: 20.74 ppb m



#16 fluorobenzene #2

R.T.: 15.132 min
Delta R.T.: -0.016 min
Response: 55722379
Conc: 66.16 ppb



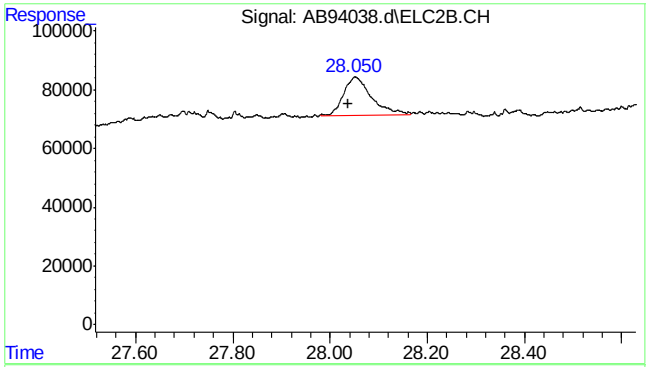
#18 2,3,4-trifluorotoluene #2

R.T.: 20.188 min
Delta R.T.: -0.015 min
Response: 27690003
Conc: 59.31 ppb

7.2.1

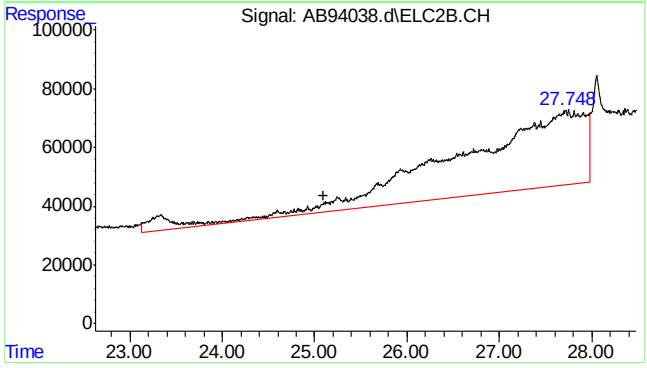
7

SGS ACCUTEST MC45816A



#24 naphthalene #2

```
      R.T.:   28.050 min
Delta R.T.:    0.012 min
  Response:    519156
      Conc:   0.72 ppb m
```



#25 c9-c10 arom as 1,2,4-tmb

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  25301473
      Conc:  26.41 ppb m
```

7.2.1

7

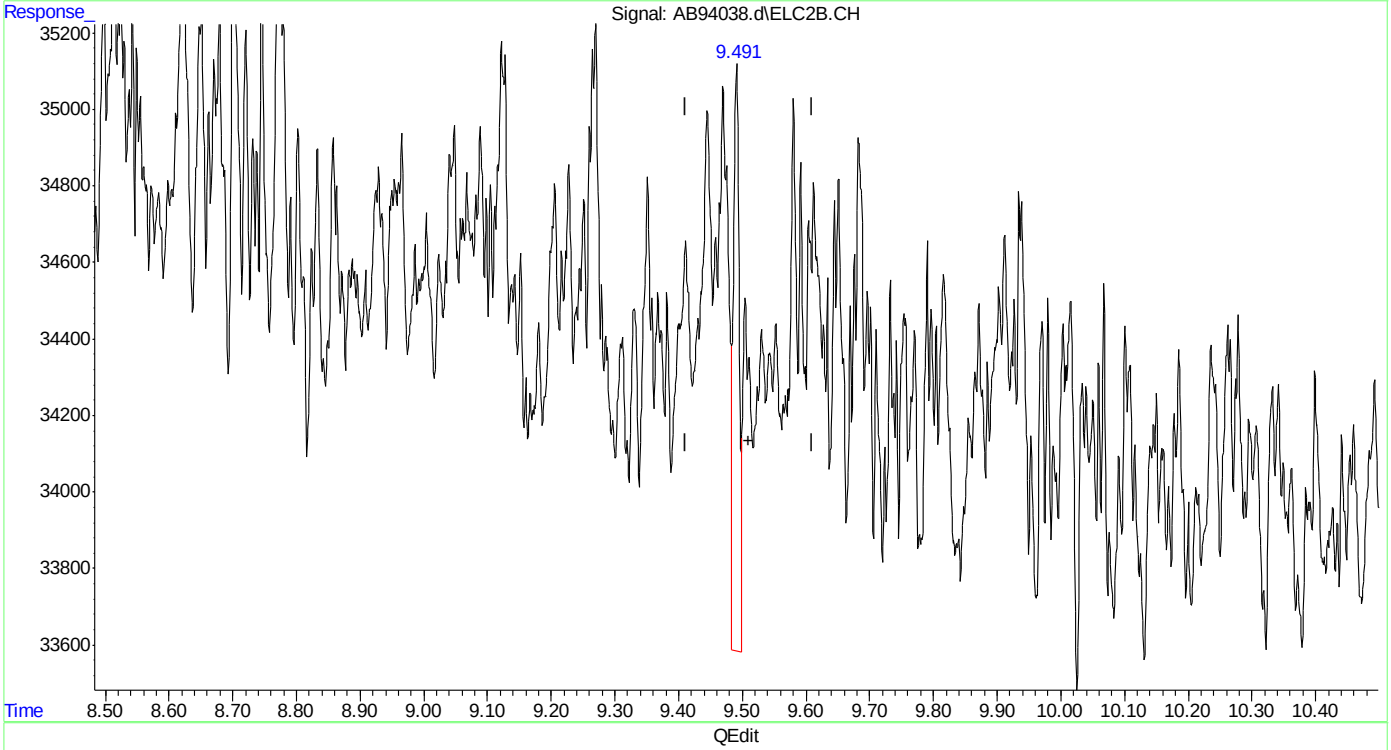
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 11:31:06
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26234,gab5168,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:02:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.491min 0.021 ppb

response 10416

(+) = Expected Retention Time

ab160512vph.M Thu May 12 12:02:24 2016

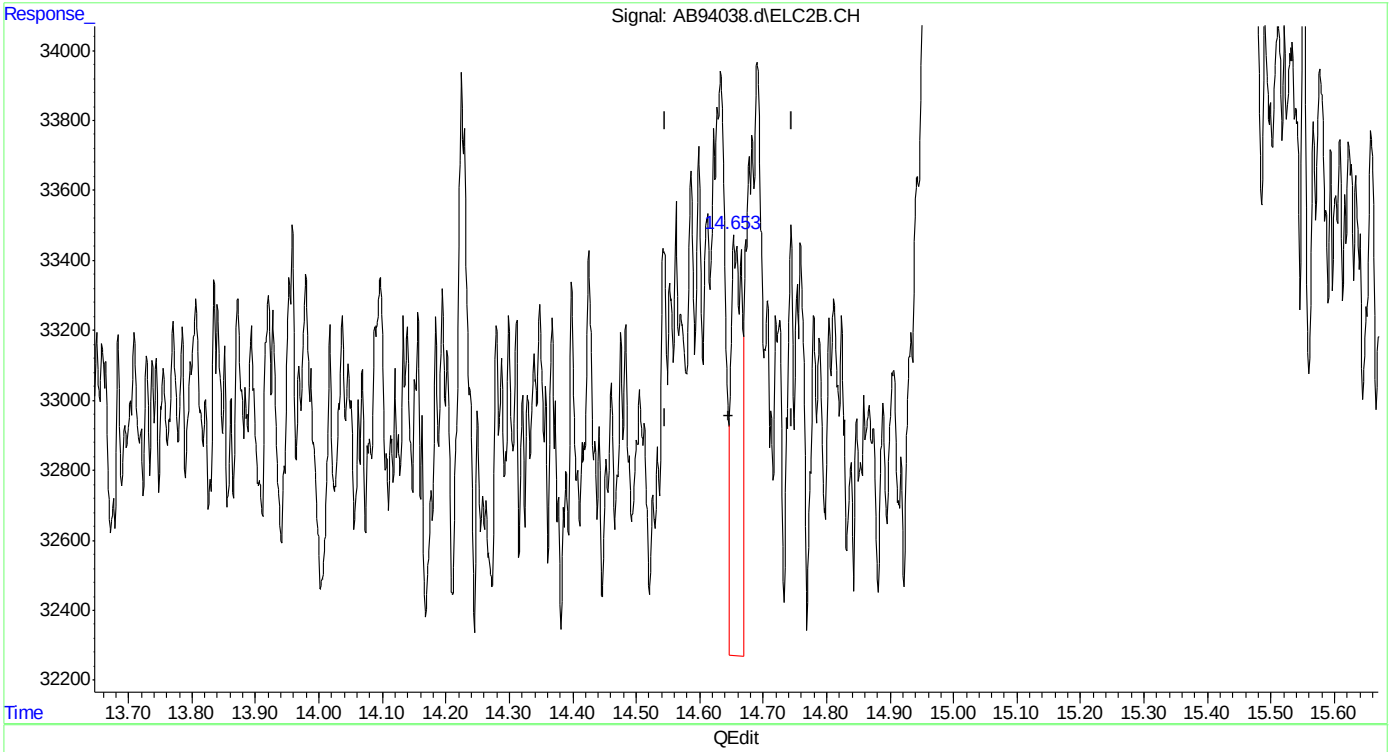
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 11:31:06
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26234,gab5168,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:02:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(15) benzene #2

14.655min 0.011 ppb

response 14302

(+) = Expected Retention Time

ab160512vph.M Thu May 12 12:02:28 2016

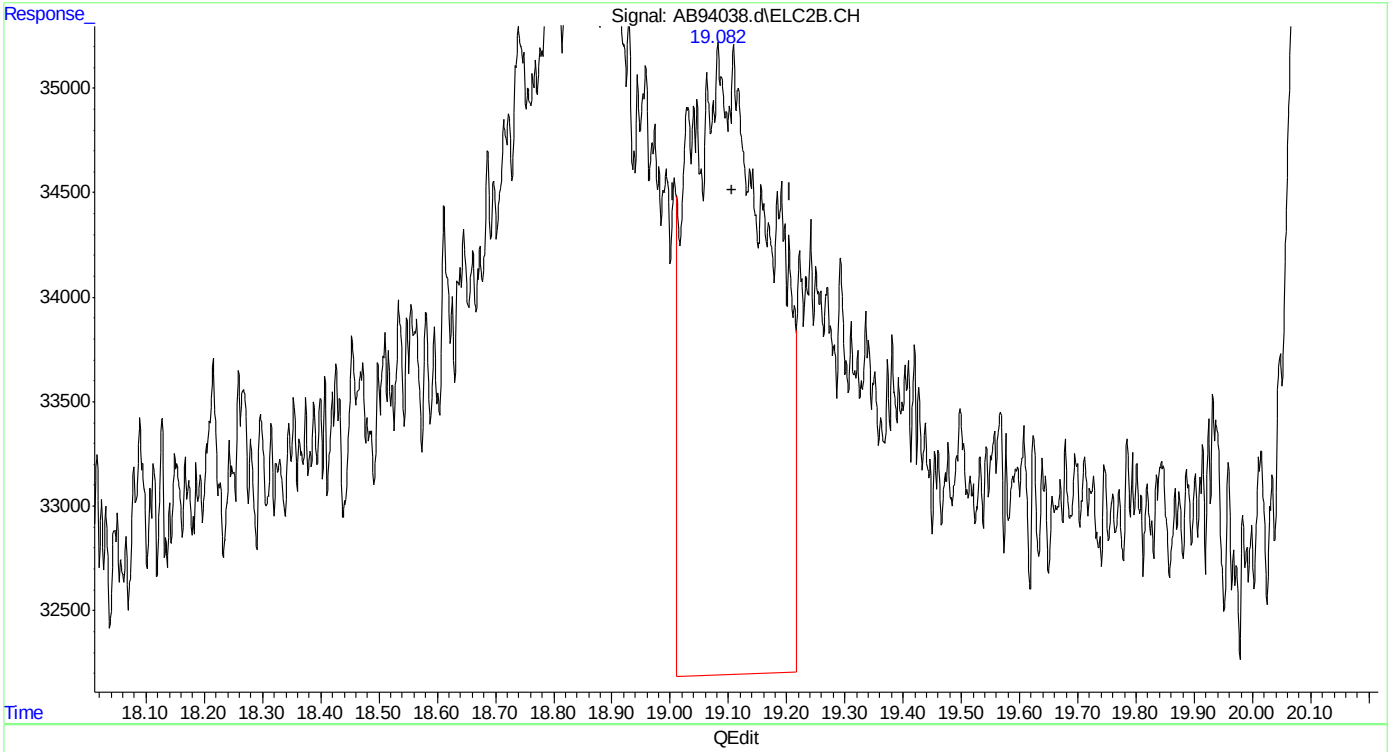
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 11:31:06
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26234,gab5168,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:02:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(17) toluene #2

19.083min 0.259 ppb

response 295773

(+) = Expected Retention Time

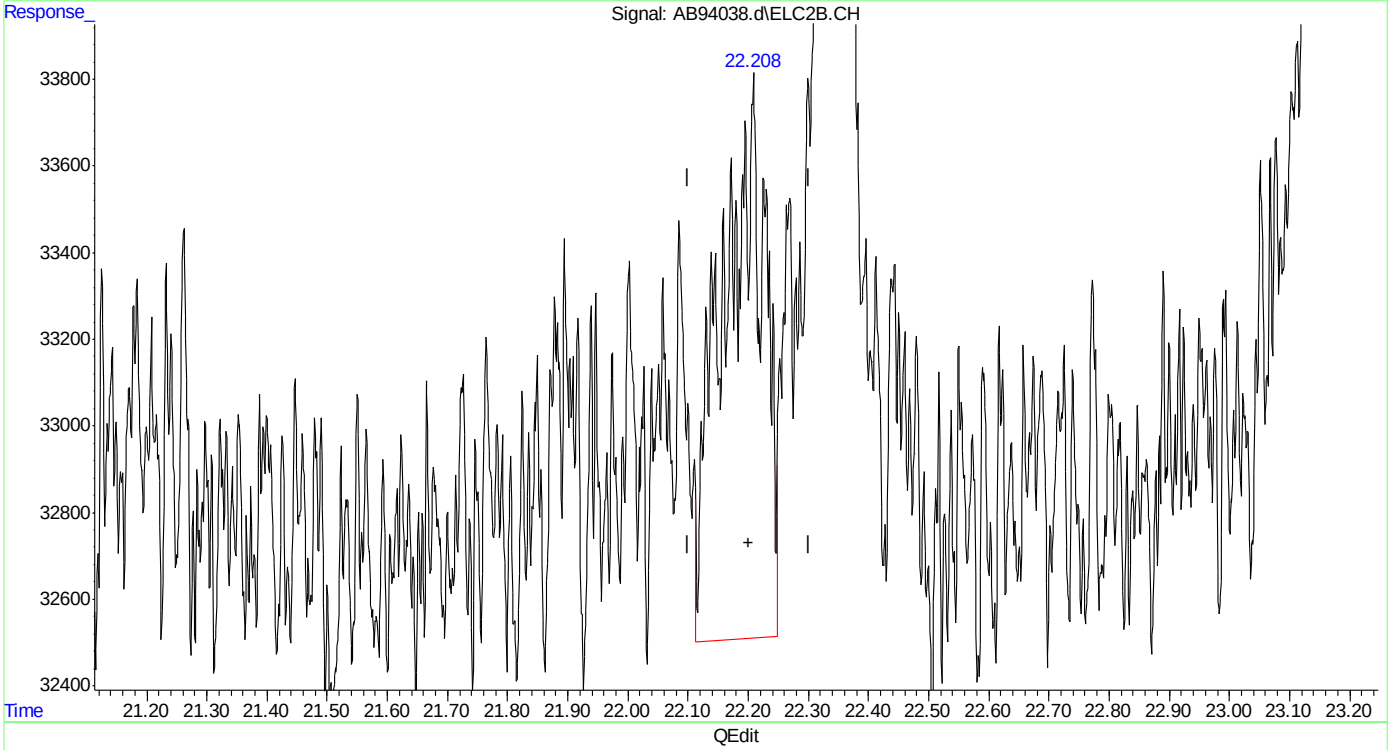
ab160512vph.M Thu May 12 12:02:34 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 11:31:06
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26234,gab5168,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:02:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) ethylbenzene #2
22.206min 0.068 ppb
response 62717

(+) = Expected Retention Time
ab160512vph.M Thu May 12 12:02:39 2016

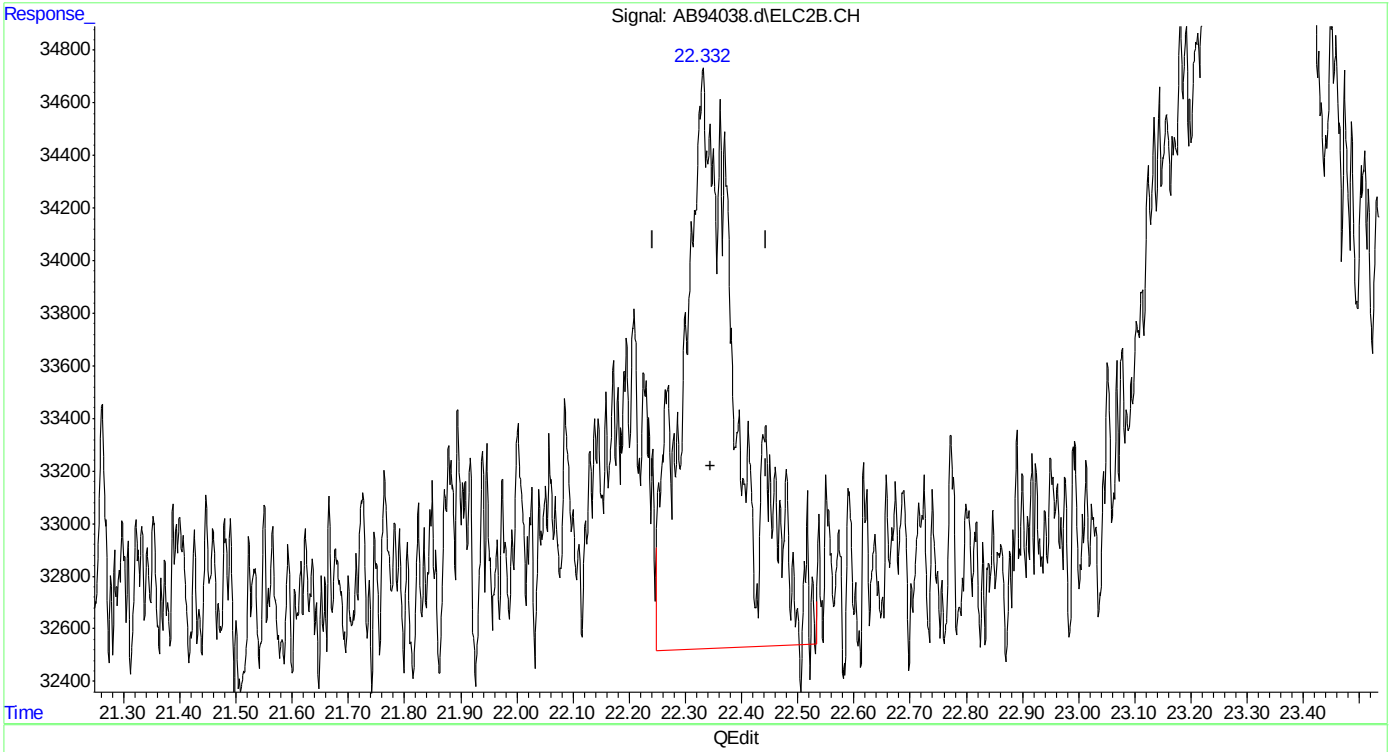
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 11:31:06
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26234,gab5168,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:02:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(20) m,p-xylene #2

22.332min 0.141 ppb

response 149771

(+) = Expected Retention Time

ab160512vph.M Thu May 12 12:02:42 2016

SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 11:31:06
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26234,gab5168,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:02:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

(23) 1,2,4-trimethylbenzene #2

25.122min 0.102 ppb

response 97435

(+) = Expected Retention Time

ab160512vph.M Thu May 12 12:02:48 2016

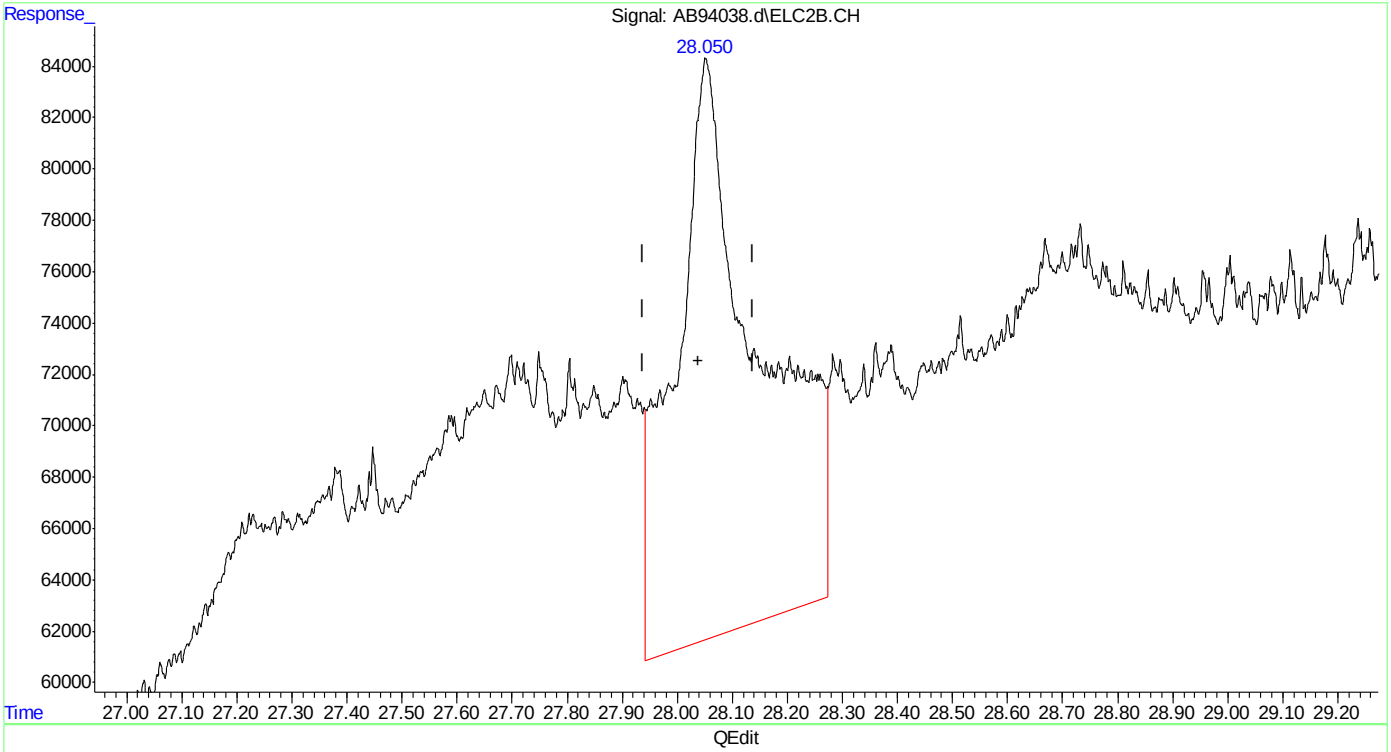
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 11:31:06
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26234,gab5168,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:02:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.053min 3.313 ppb

response 2395267

(+) = Expected Retention Time

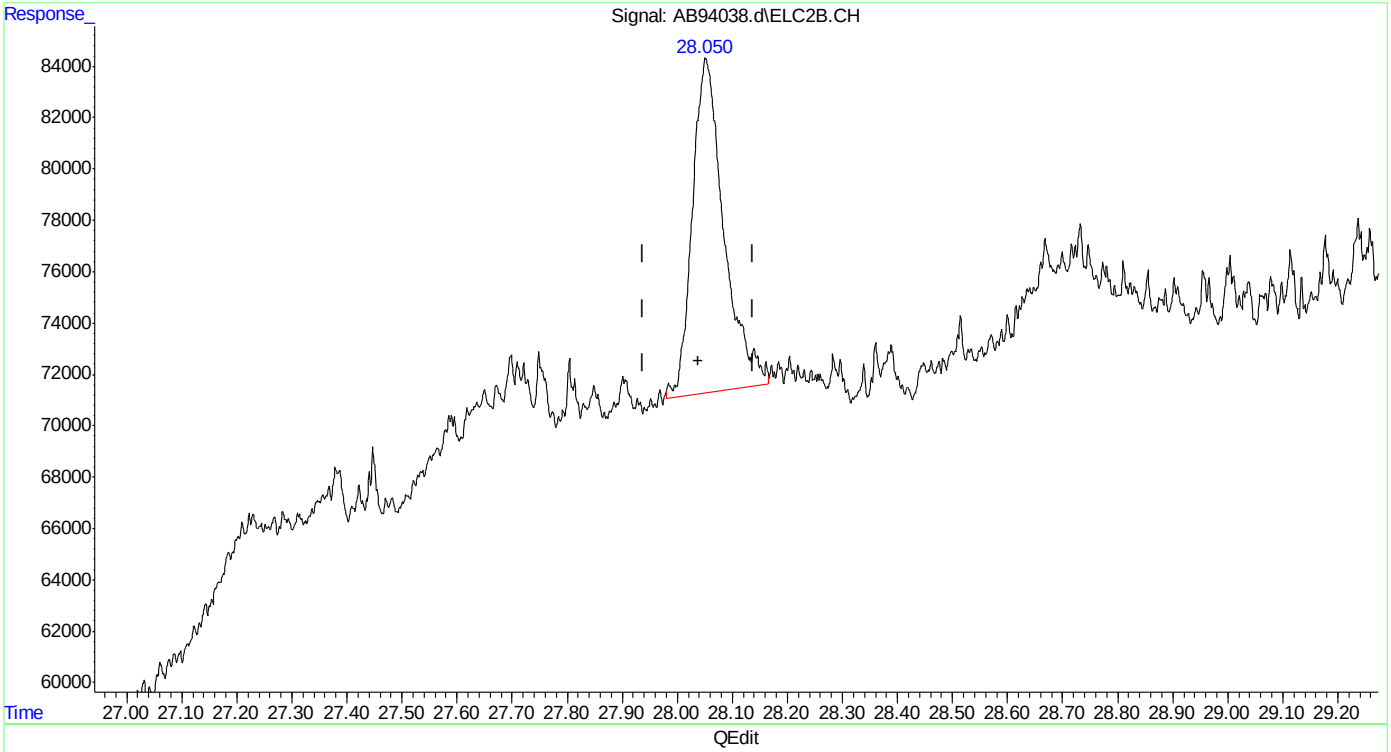
ab160512vph.M Thu May 12 12:02:52 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94038.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 11:31:06
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26234,gab5168,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:02:00 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.050min 0.718 ppb m

response 519156

(+) = Expected Retention Time

ab160512vph.M Thu May 12 12:02:56 2016

SGS ACCUTEST MC45816A

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/17/16 09:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94039.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 12:08:43
Operator : tonyf
Sample : bsp,s,vmavph,20
Misc : gc26234,gab5168,20,,100,20,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:41:24 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.135	24611223	55.917	ppb	
Spiked Amount 50.000		Recovery = 111.83%			
6) s 2,3,4-trifluorotoluene	20.190	21254687	51.847	ppb	
Spiked Amount 50.000		Recovery = 103.69%			
16) s fluorobenzene #2	15.131	46910666	55.697	ppb	
Spiked Amount 50.000		Recovery = 111.39%			
18) s 2,3,4-trifluorotoluen...	20.188	23620344	50.592	ppb	
Spiked Amount 50.000		Recovery = 101.18%			
Target Compounds					
1) h rt5.5-7	6.420	16297283	40.590	ppb	m
2) h rt7/10	8.720	19756255	49.205	ppb	m
3) h rt10/13	13.870	22639456	56.386	ppb	m
8) h rt20/25	21.870	29052723	46.373	ppb	m
10) h decane	24.200	29642159	47.314	ppb	
11) h butylcyclohexane	25.240	31714487	50.621	ppb	m
14) mtbe #2	9.501	26392214	52.319	ppb	m
15) benzene #2	14.629	67711083	52.019	ppb	
17) toluene #2	19.090	58587076	51.245	ppb	
19) ethylbenzene #2	22.187	48260570	52.126	ppb	
20) m,p-xylene #2	22.329	115082094	108.495	ppb	
21) o-xylene #2	23.136	48364349	51.774	ppb	
22) t 1,3,5-trimethylbenzen...	24.568	67121299	51.374	ppb	
23) 1,2,4-trimethylbenzen...	25.086	48124161	50.285	ppb	
24) naphthalene #2	28.029	33390845	46.189	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	48200493	50.311	ppb	m

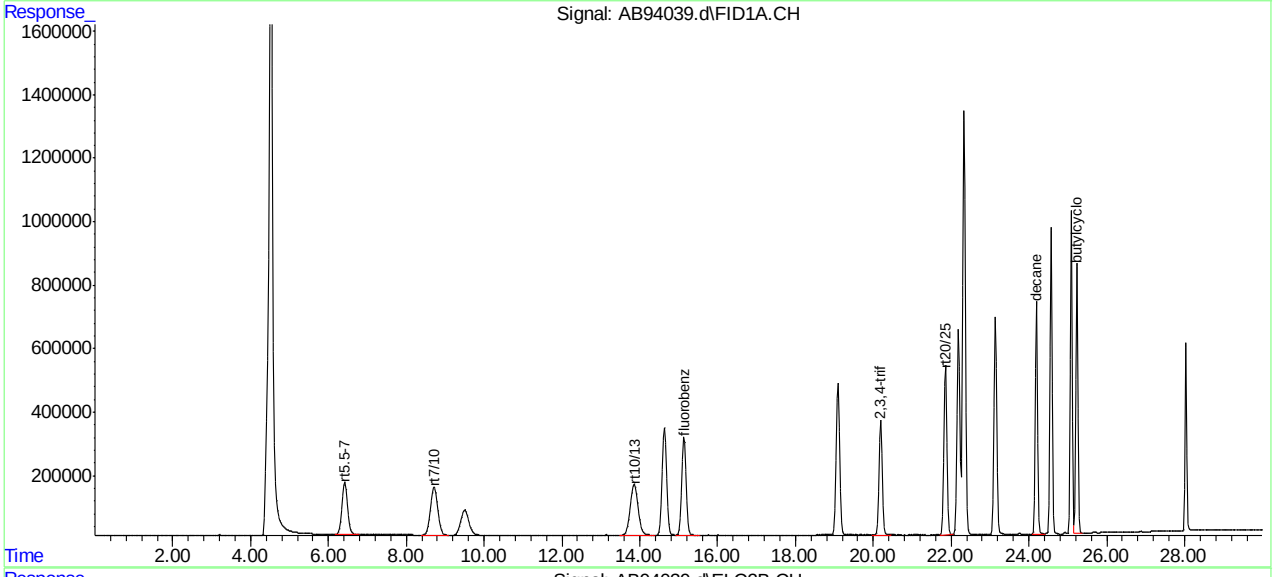
(f)=RT Delta > 1/2 Window (m)=manual int.

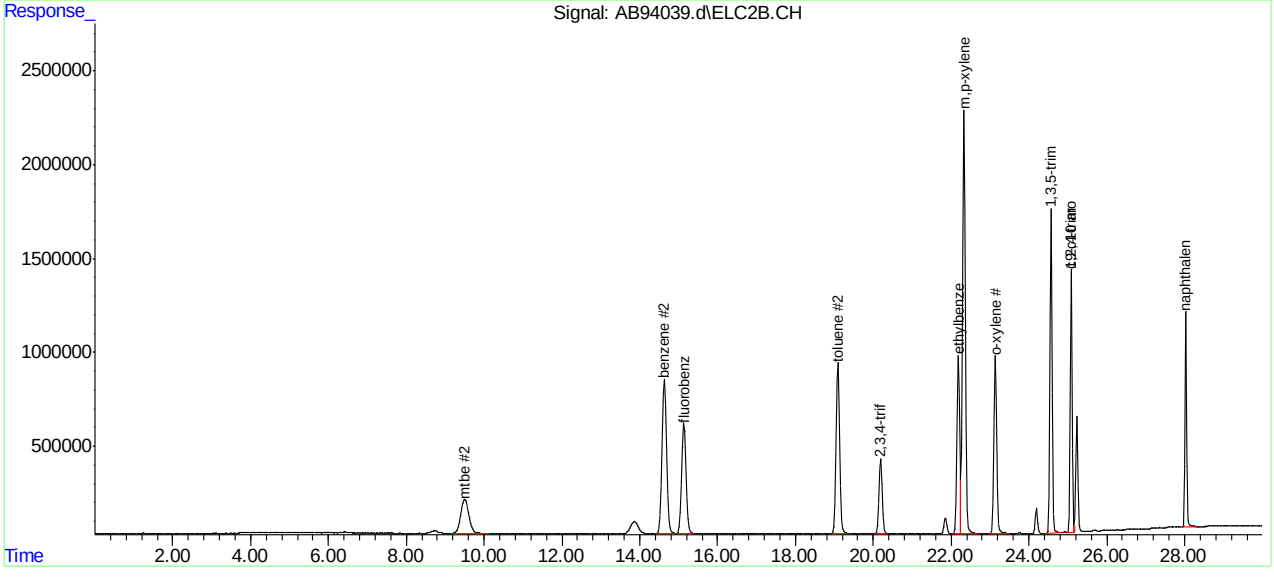
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94039.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 12:08:43
Operator : tonyf
Sample : bsp,s,vmavph,20
Misc : gc26234,gab5168,20,,100,20,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

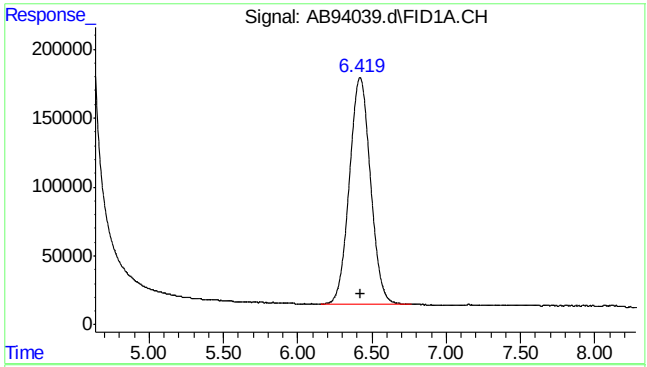
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:41:24 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



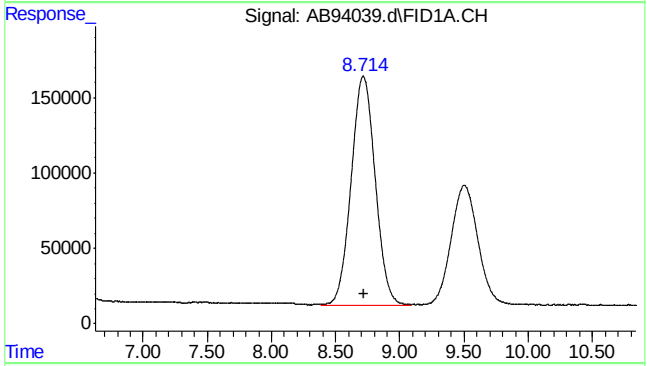


SGS ACCUTEST MC45816A



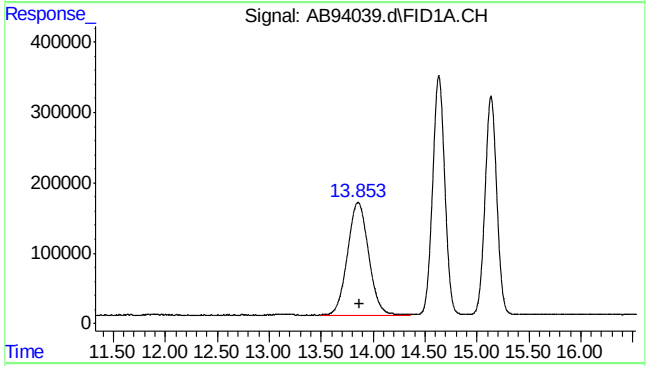
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16297283
Conc: 40.59 ppb m



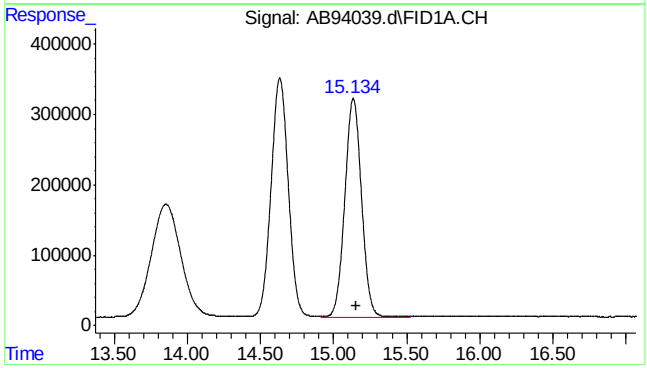
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 19756255
Conc: 49.20 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 22639456
Conc: 56.39 ppb m



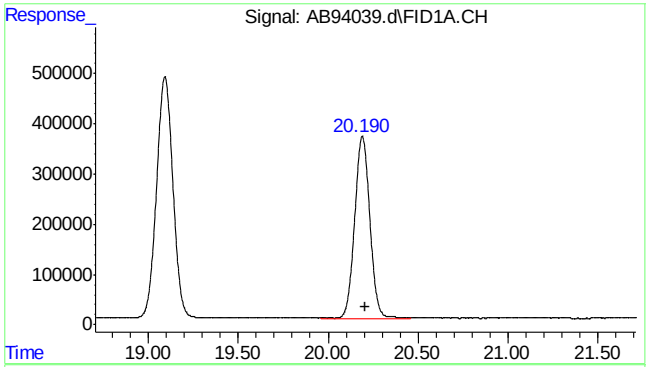
#4 fluorobenzene

R.T.: 15.135 min
Delta R.T.: -0.016 min
Response: 24611223
Conc: 55.92 ppb

7.3.1

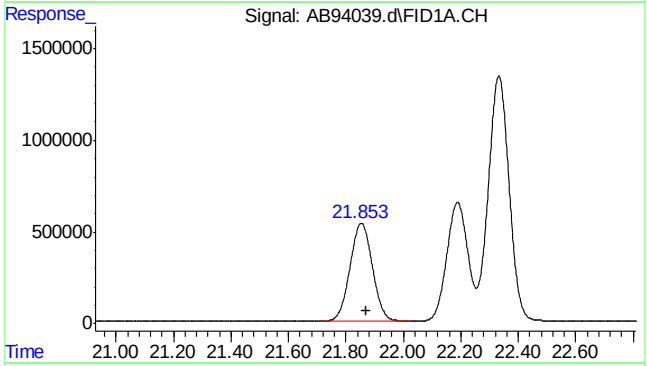
7

SGS ACCUTEST MC45816A



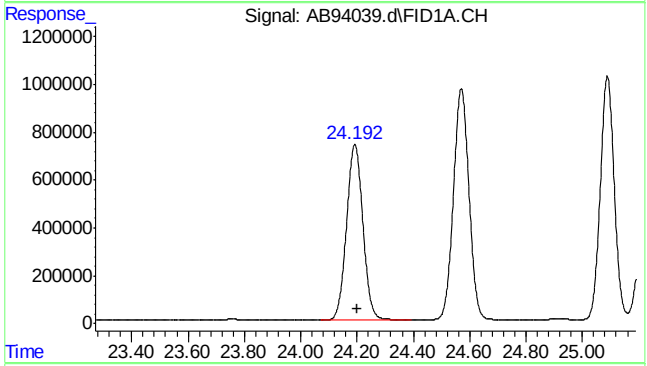
#6 2,3,4-trifluorotoluene

R.T.: 20.190 min
Delta R.T.: -0.015 min
Response: 21254687
Conc: 51.85 ppb



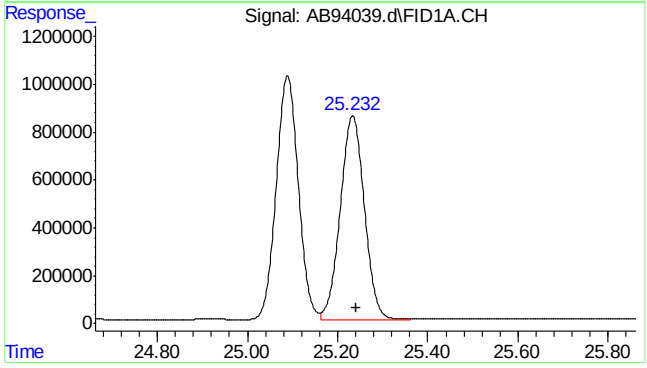
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 29052723
Conc: 46.37 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 29642159
Conc: 47.31 ppb



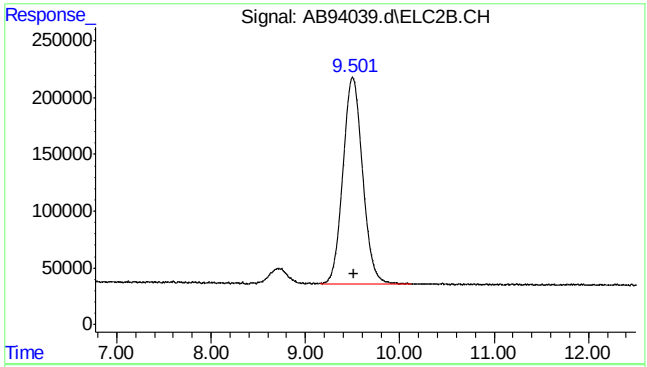
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 31714487
Conc: 50.62 ppb m

7.3.1

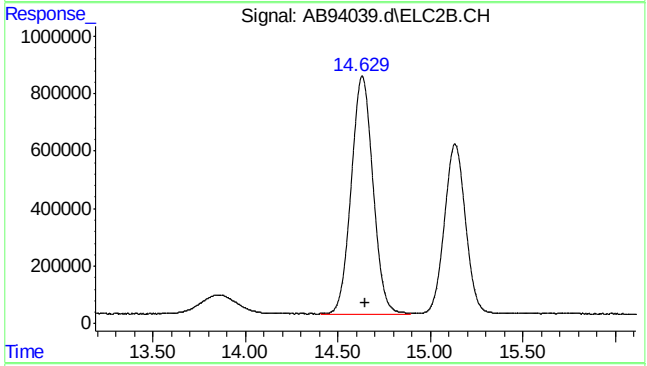
7

SGS ACCUTEST MC45816A



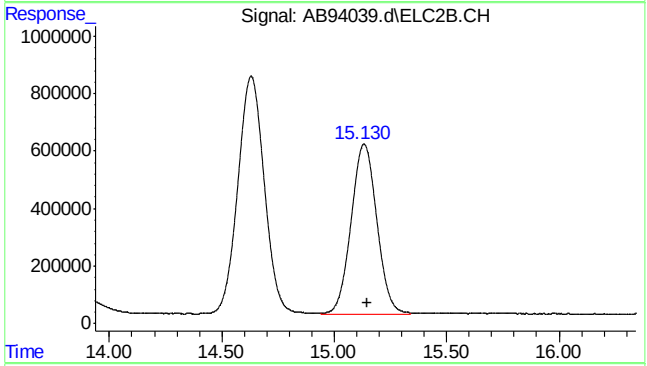
#14 mtbe #2

R.T.: 9.501 min
Delta R.T.: -0.010 min
Response: 26392214
Conc: 52.32 ppb m



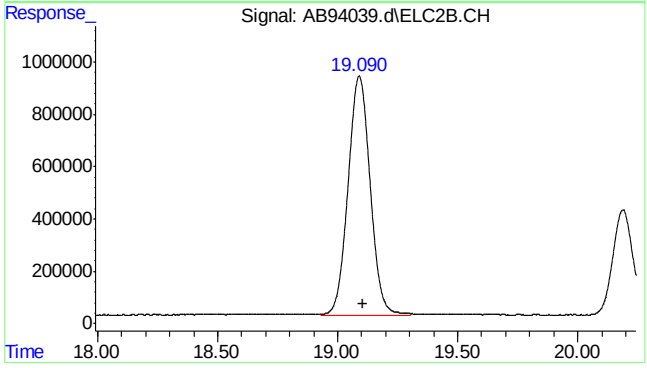
#15 benzene #2

R.T.: 14.629 min
Delta R.T.: -0.017 min
Response: 67711083
Conc: 52.02 ppb



#16 fluorobenzene #2

R.T.: 15.131 min
Delta R.T.: -0.017 min
Response: 46910666
Conc: 55.70 ppb



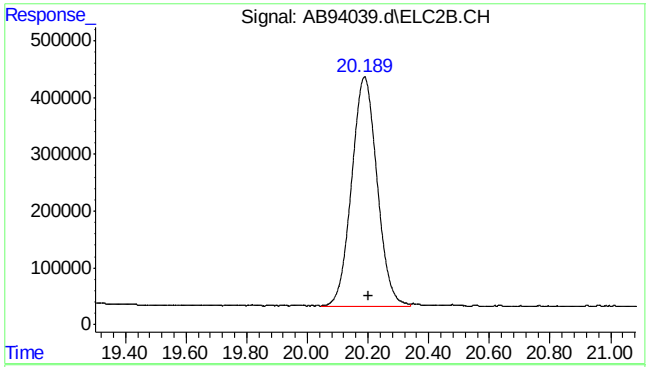
#17 toluene #2

R.T.: 19.090 min
Delta R.T.: -0.016 min
Response: 58587076
Conc: 51.24 ppb

7.3.1

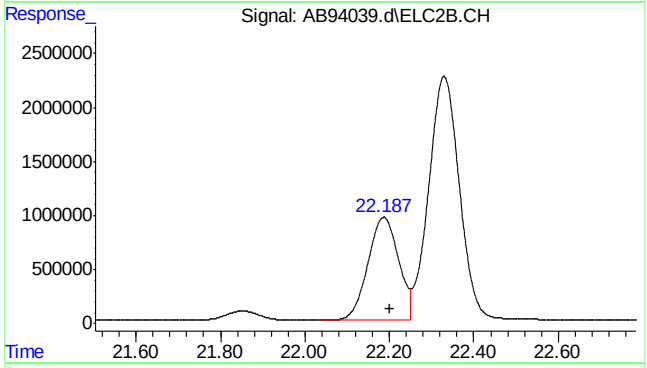
7

SGS ACCUTEST MC45816A



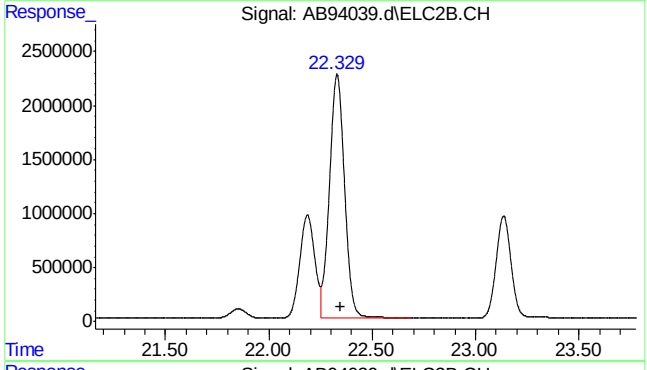
#18 2,3,4-trifluorotoluene #2

R.T.: 20.188 min
Delta R.T.: -0.015 min
Response: 23620344
Conc: 50.59 ppb



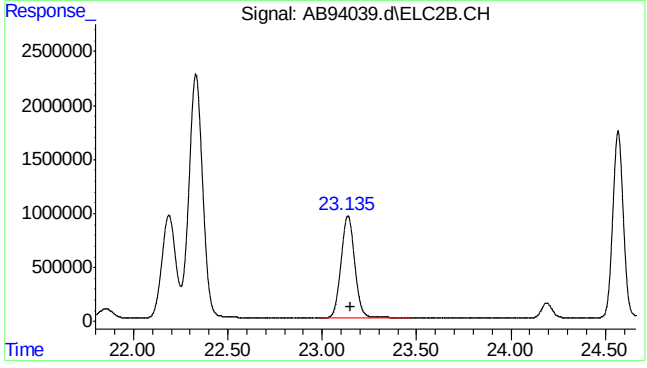
#19 ethylbenzene #2

R.T.: 22.187 min
Delta R.T.: -0.014 min
Response: 48260570
Conc: 52.13 ppb



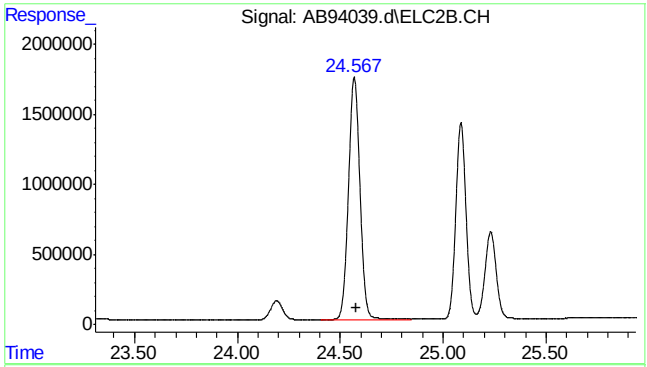
#20 m,p-xylene #2

R.T.: 22.329 min
Delta R.T.: -0.015 min
Response: 115082094
Conc: 108.49 ppb



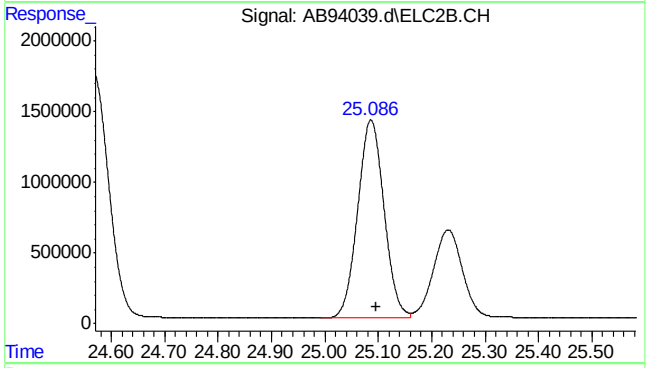
#21 o-xylene #2

R.T.: 23.136 min
Delta R.T.: -0.014 min
Response: 48364349
Conc: 51.77 ppb



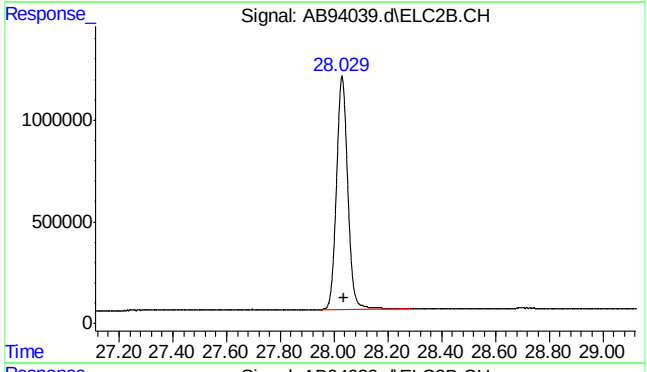
#22 1,3,5-trimethylbenzene #2

```
      R.T.:   24.568 min
Delta R.T.:   -0.011 min
  Response:  67121299
      Conc:  51.37 ppb
```



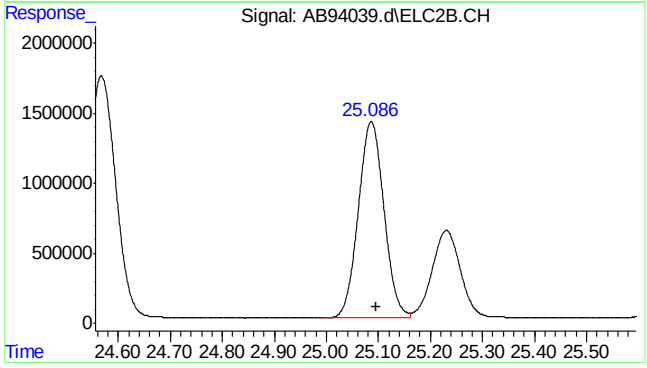
#23 1,2,4-trimethylbenzene #2

```
      R.T.:   25.086 min
Delta R.T.:   -0.010 min
  Response:  48124161
      Conc:  50.28 ppb
```



#24 naphthalene #2

```
      R.T.:   28.029 min
Delta R.T.:   -0.009 min
  Response:  33390845
      Conc:  46.19 ppb m
```



#25 c9-c10 arom as 1,2,4-tmb

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  48200493
      Conc:  50.31 ppb m
```

7.3.1

7

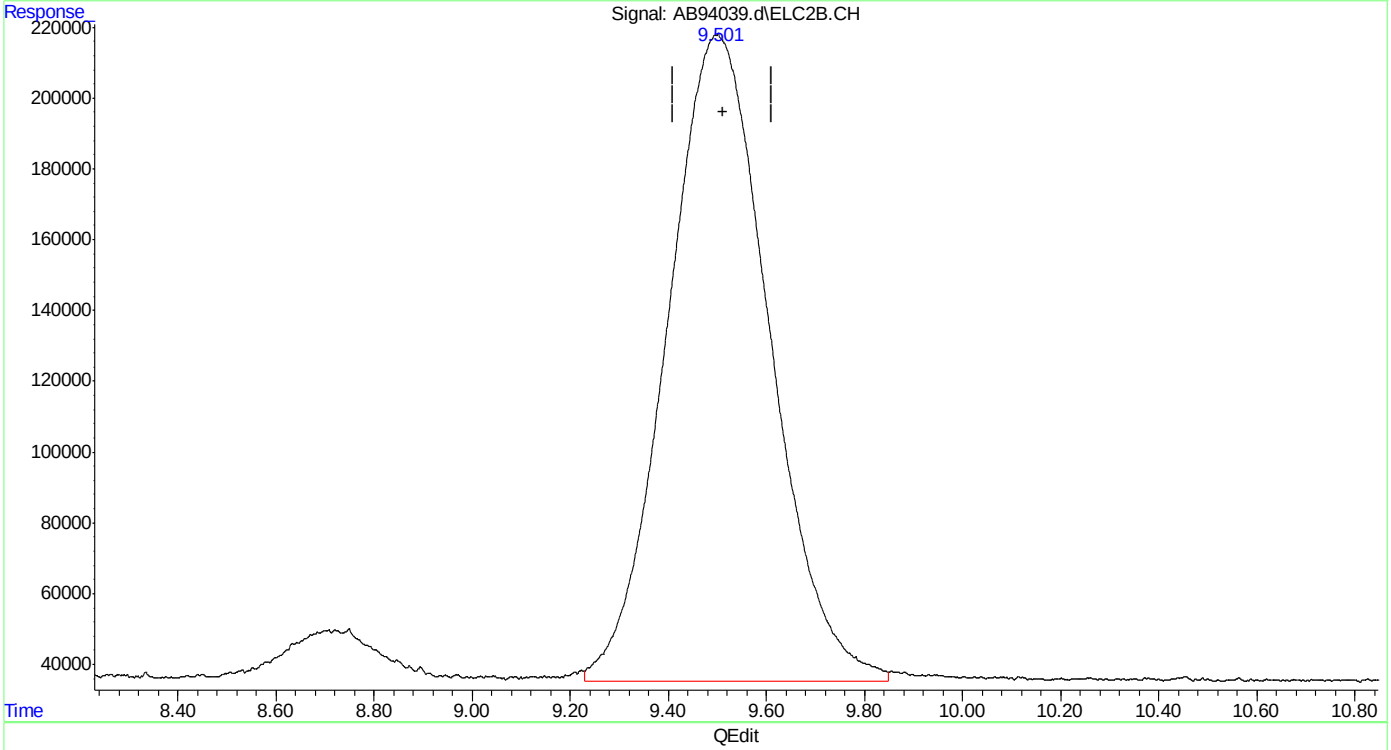
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94039.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 12:08:43
Operator  : tonyf
Sample    : bsp,s,vmavph,20
Misc      : gc26234,gab5168,20,,100,20,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:40:07 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.501min 52.356 ppb

response 26411144

(+) = Expected Retention Time

ab160512vph.M Thu May 12 12:40:42 2016

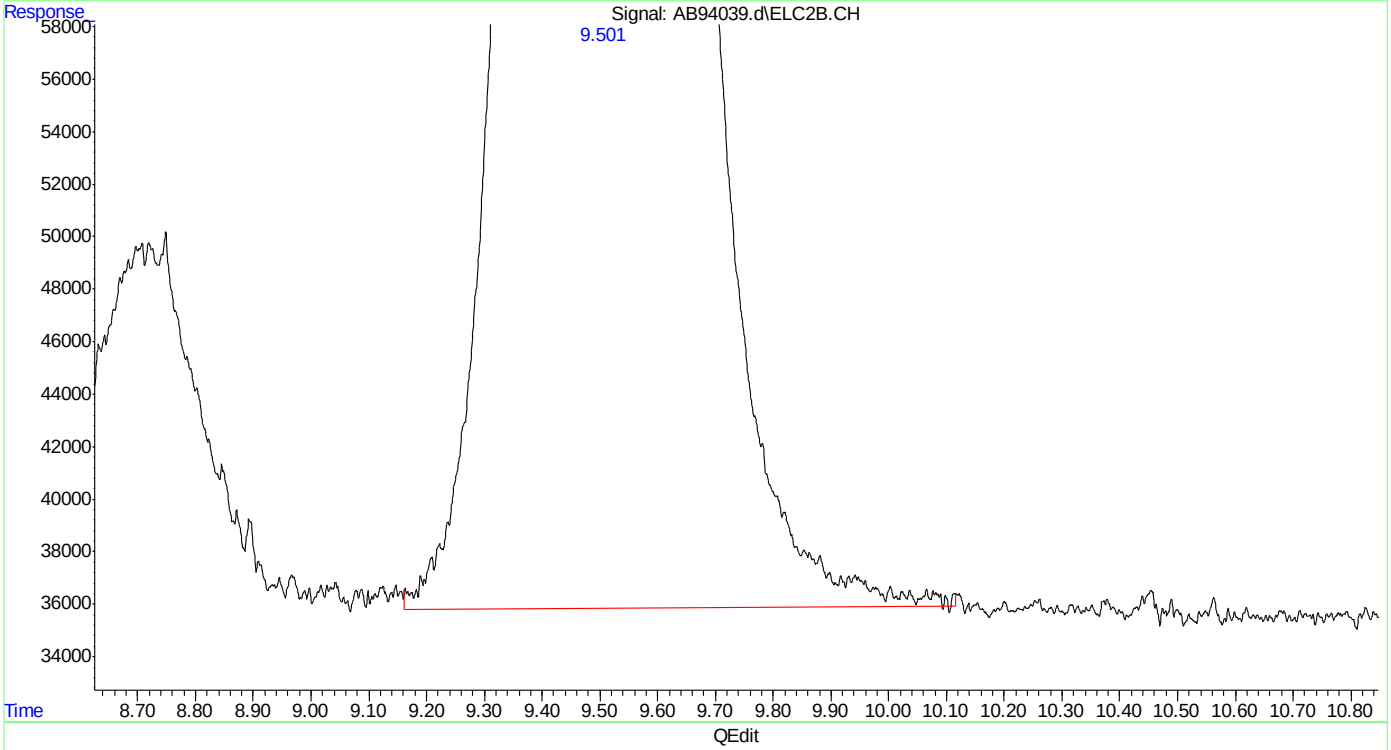
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94039.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 12:08:43
Operator  : tonyf
Sample    : bsp,s,vmavph,20
Misc      : gc26234,gab5168,20,,100,20,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:40:07 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.501min 52.319 ppb m

response 26392214

(+) = Expected Retention Time

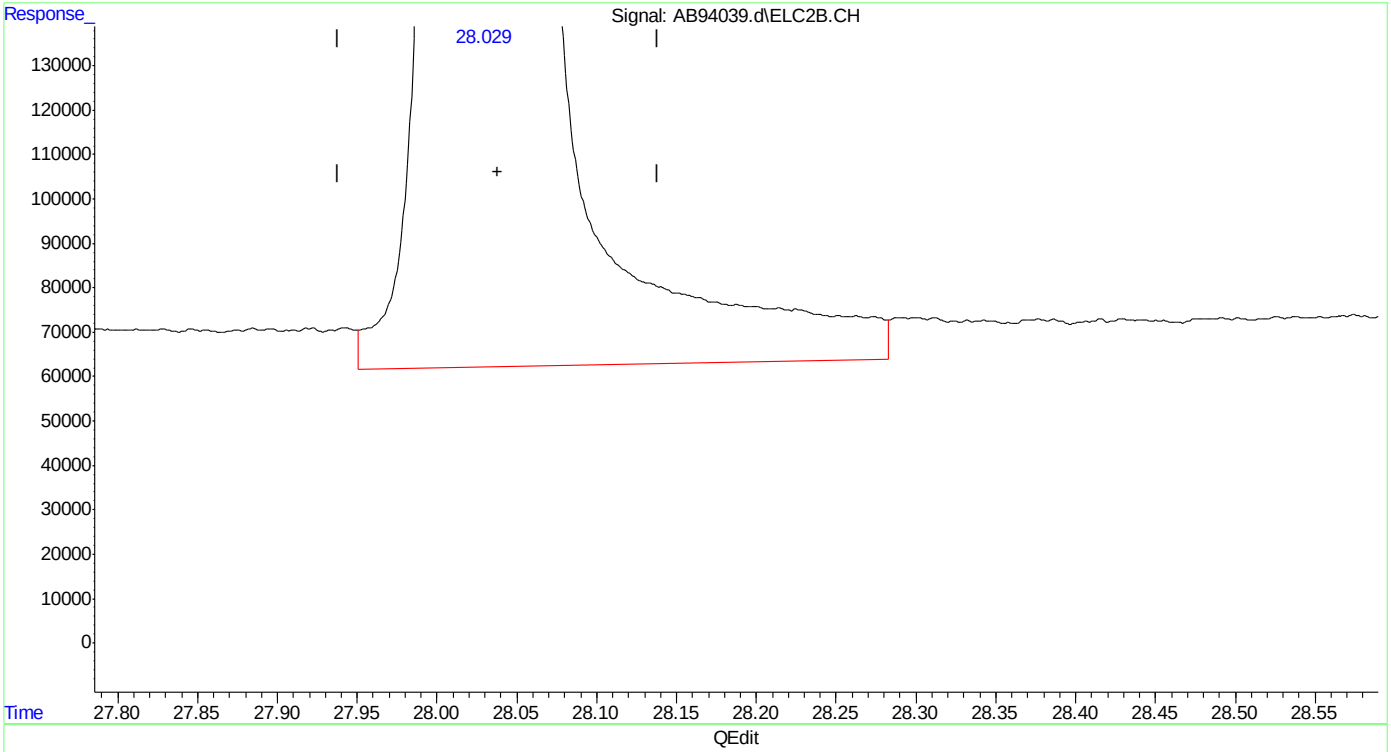
ab160512vph.M Thu May 12 12:40:48 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94039.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 12:08:43
Operator  : tonyf
Sample    : bsp,s,vmavph,20
Misc      : gc26234,gab5168,20,,100,20,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:40:07 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.030min 48.524 ppb

response 35078617

(+) = Expected Retention Time

ab160512vph.M Thu May 12 12:40:59 2016

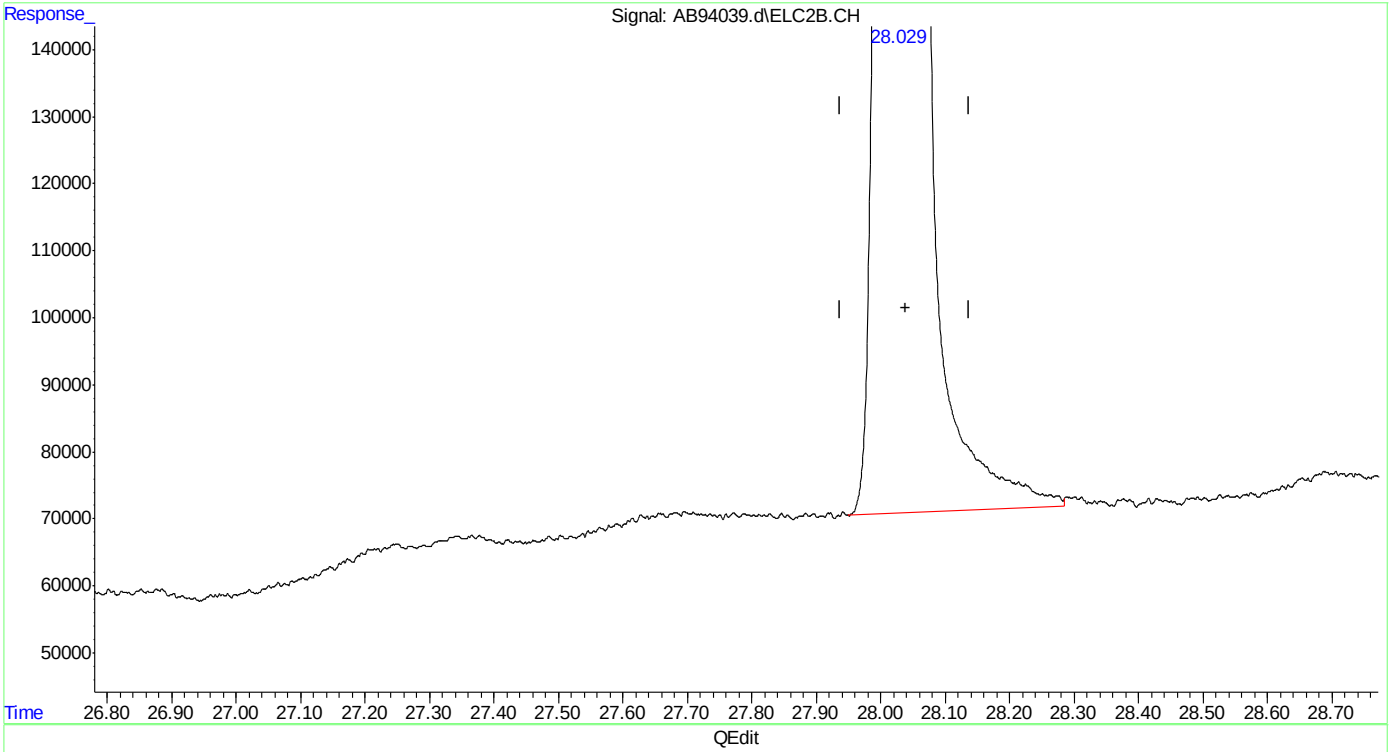
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94039.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 12:08:43
Operator  : tonyf
Sample    : bsp,s,vmavph,20
Misc      : gc26234,gab5168,20,,100,20,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 12:40:07 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.029min 46.189 ppb m

response 33390845

(+) = Expected Retention Time

ab160512vph.M Thu May 12 12:41:17 2016

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/17/16 09:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94040.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 12:46:30
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26234,gab5168,20,,100,20,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 13:43:57 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	15.135	24679176	56.071 ppb	
Spiked Amount 50.000		Recovery	= 112.14%	
6) s 2,3,4-trifluorotoluene	20.191	21290019	51.933 ppb	
Spiked Amount 50.000		Recovery	= 103.87%	
16) s fluorobenzene #2	15.132	47326174	56.191 ppb	
Spiked Amount 50.000		Recovery	= 112.38%	
18) s 2,3,4-trifluorotoluen...	20.188	23921419	51.237 ppb	
Spiked Amount 50.000		Recovery	= 102.47%	
Target Compounds				
1) h rt5.5-7	6.420	16240713	40.449 ppb	m
2) h rt7/10	8.720	19714807	49.102 ppb	m
3) h rt10/13	13.870	22698513	56.533 ppb	m
8) h rt20/25	21.870	29335841	46.825 ppb	m
10) h decane	24.200	30191007	48.190 ppb	
11) h butylcyclohexane	25.240	32231780	51.447 ppb	m
14) mtbe #2	9.492	26304576	52.145 ppb	m
15) benzene #2	14.630	68040215	52.272 ppb	
17) toluene #2	19.091	58991682	51.599 ppb	
19) ethylbenzene #2	22.188	48464677	52.346 ppb	
20) m,p-xylene #2	22.331	115466734	108.857 ppb	
21) o-xylene #2	23.136	48094742	51.486 ppb	
22) t 1,3,5-trimethylbenzen...	24.568	68070642	52.101 ppb	
23) 1,2,4-trimethylbenzen...	25.087	49013968	51.214 ppb	
24) naphthalene #2	28.030	33964128	46.982 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	48542090	50.668 ppb	m

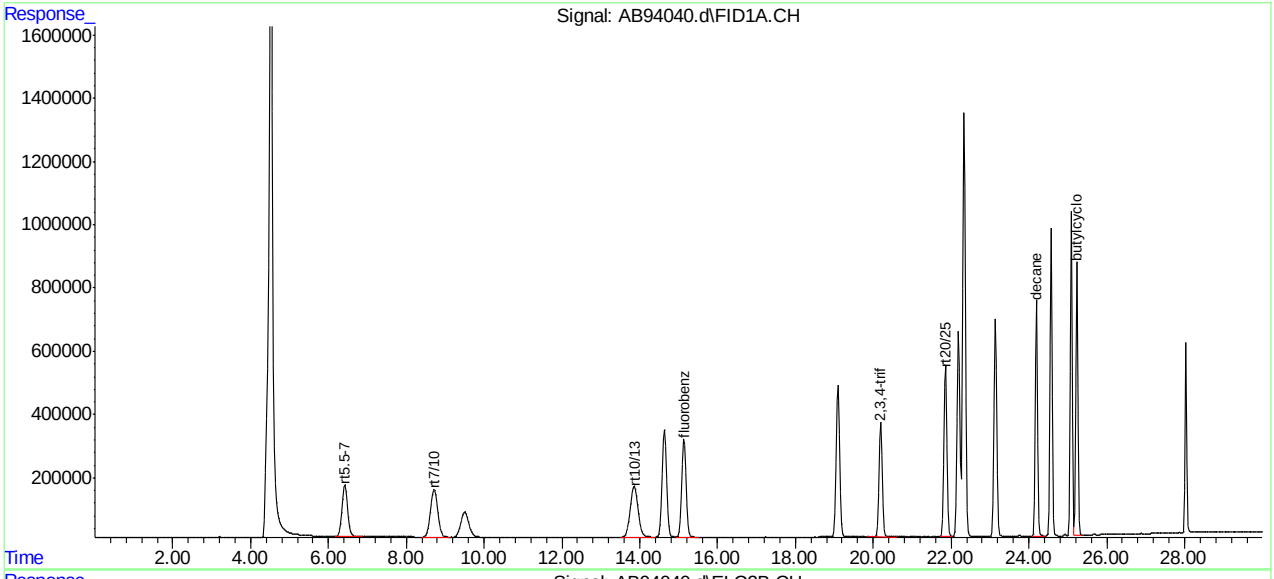
(f)=RT Delta > 1/2 Window (m)=manual int.

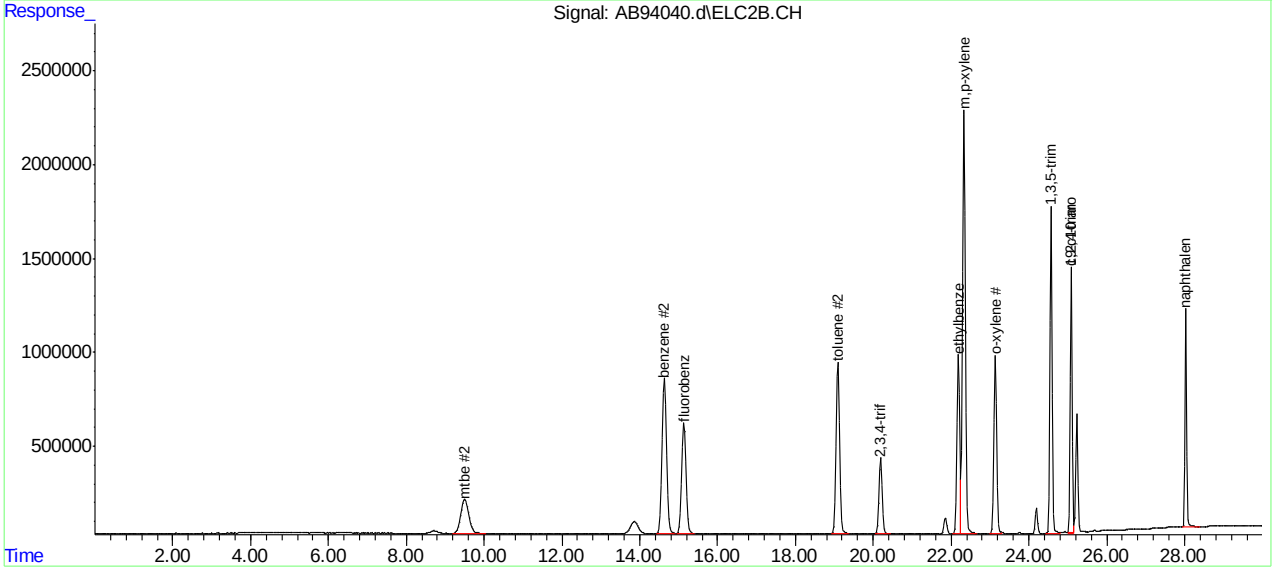
Quantitation Report (QT Reviewed)

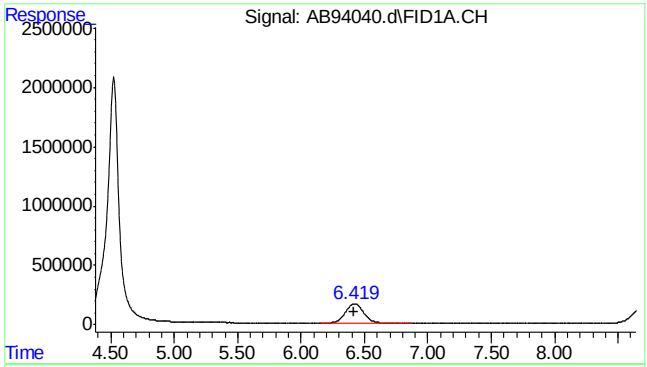
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94040.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 12:46:30
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26234,gab5168,20,,100,20,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 13:43:57 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

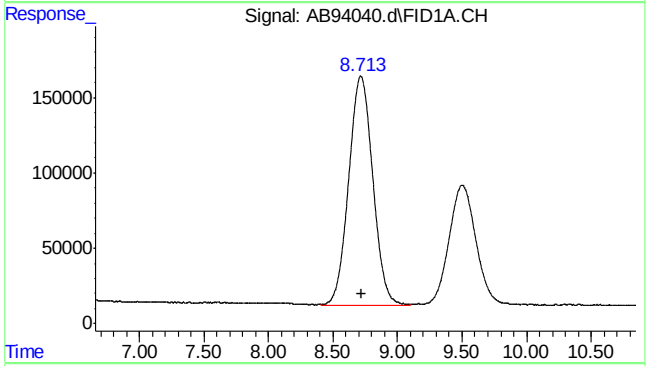






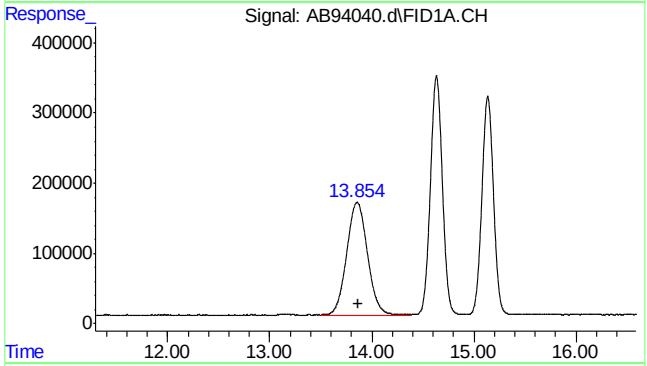
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16240713
Conc: 40.45 ppb m



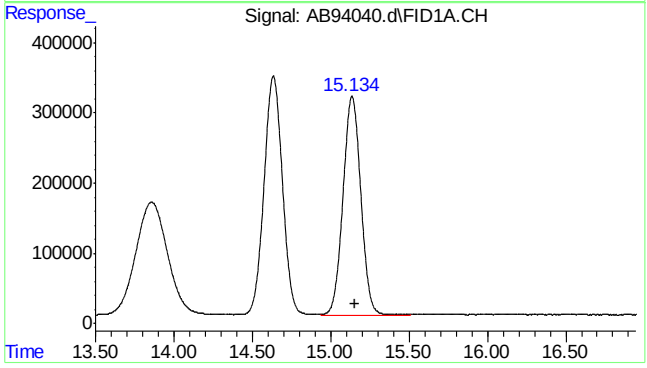
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 19714807
Conc: 49.10 ppb m



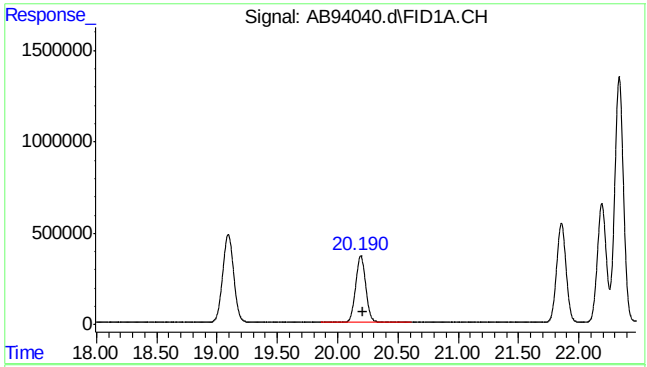
#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 22698513
Conc: 56.53 ppb m



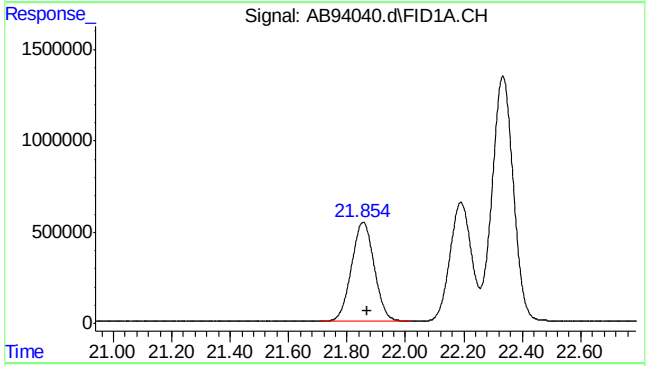
#4 fluorobenzene

R.T.: 15.135 min
Delta R.T.: -0.016 min
Response: 24679176
Conc: 56.07 ppb



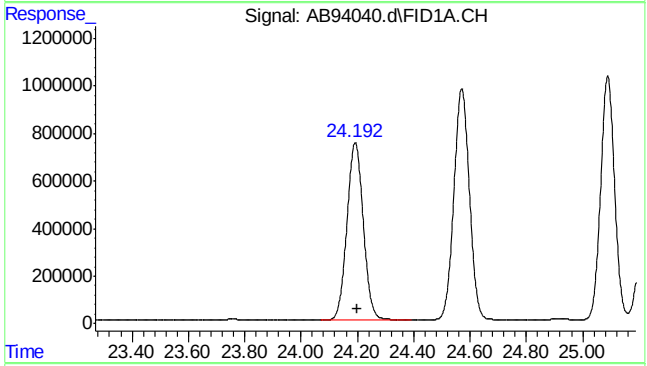
#6 2,3,4-trifluorotoluene

R.T.: 20.191 min
Delta R.T.: -0.015 min
Response: 21290019
Conc: 51.93 ppb



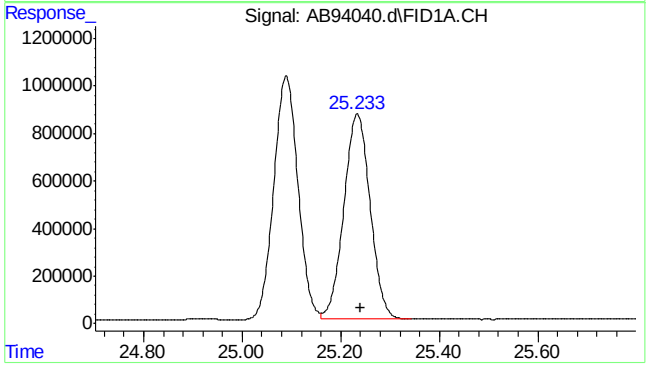
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 29335841
Conc: 46.82 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 30191007
Conc: 48.19 ppb



#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 32231780
Conc: 51.45 ppb m

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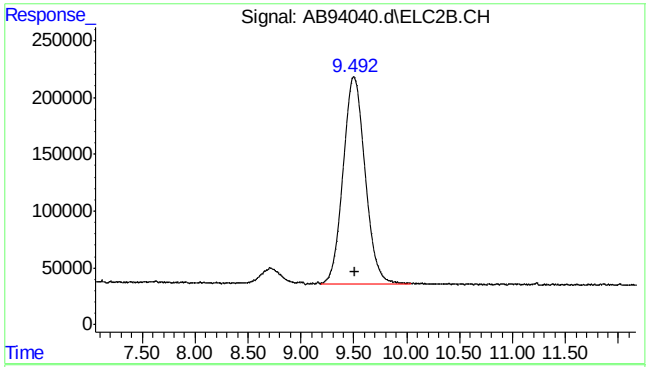
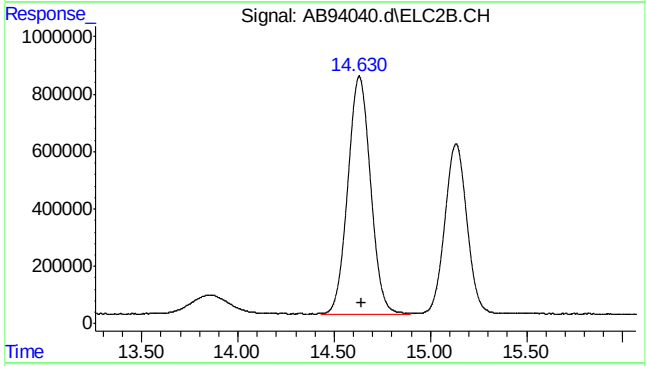


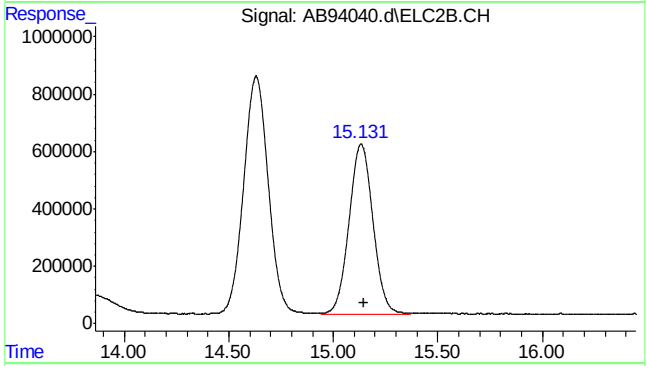
#14 mtbe #2

R.T.: 9.492 min
Delta R.T.: -0.019 min
Response: 26304576
Conc: 52.14 ppb m



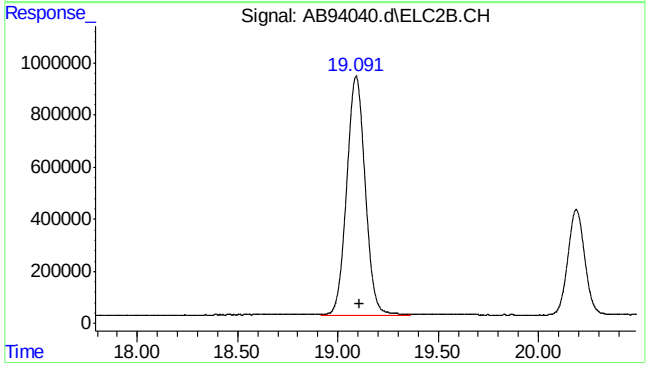
#15 benzene #2

R.T.: 14.630 min
Delta R.T.: -0.016 min
Response: 68040215
Conc: 52.27 ppb



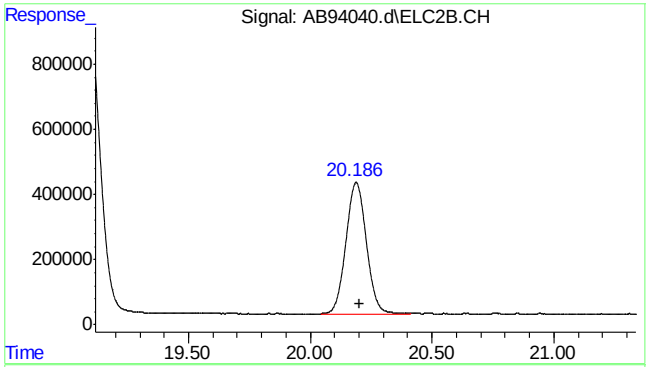
#16 fluorobenzene #2

R.T.: 15.132 min
Delta R.T.: -0.016 min
Response: 47326174
Conc: 56.19 ppb



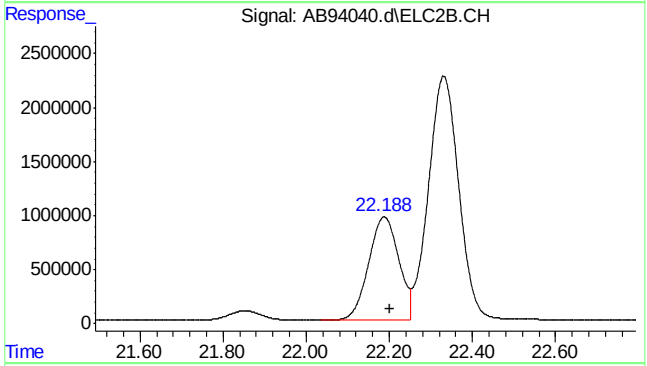
#17 toluene #2

R.T.: 19.091 min
Delta R.T.: -0.015 min
Response: 58991682
Conc: 51.60 ppb



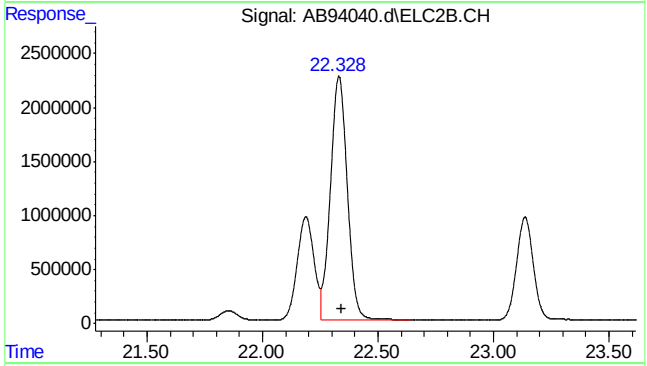
#18 2,3,4-trifluorotoluene #2

R.T.: 20.188 min
Delta R.T.: -0.015 min
Response: 23921419
Conc: 51.24 ppb



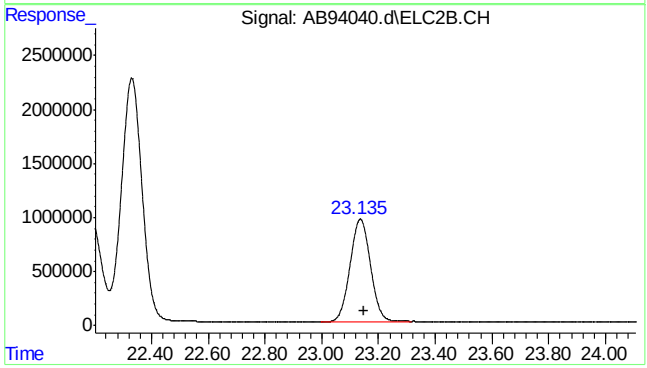
#19 ethylbenzene #2

R.T.: 22.188 min
Delta R.T.: -0.013 min
Response: 48464677
Conc: 52.35 ppb



#20 m,p-xylene #2

R.T.: 22.331 min
Delta R.T.: -0.013 min
Response: 115466734
Conc: 108.86 ppb

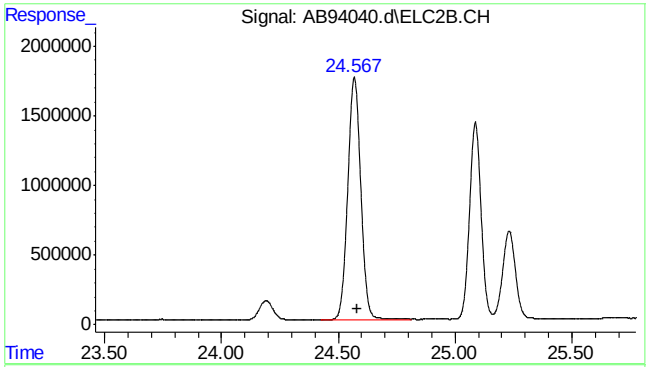


#21 o-xylene #2

R.T.: 23.136 min
Delta R.T.: -0.014 min
Response: 48094742
Conc: 51.49 ppb

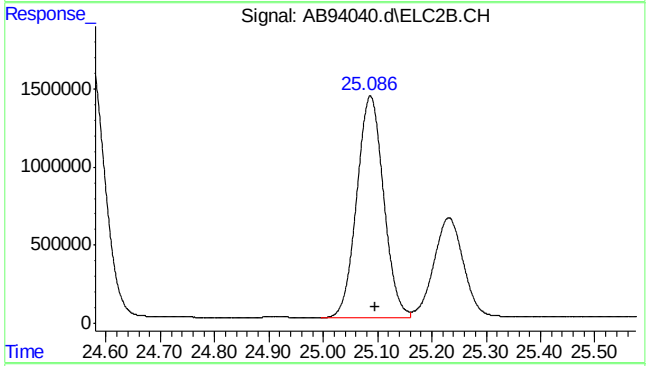
7.3.2

7



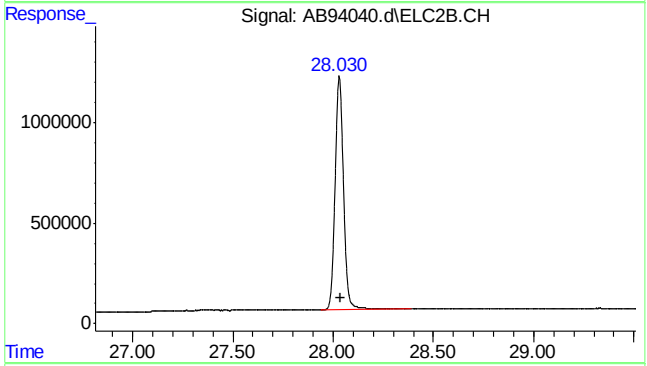
#22 1,3,5-trimethylbenzene #2

R.T.: 24.568 min
Delta R.T.: -0.011 min
Response: 68070642
Conc: 52.10 ppb



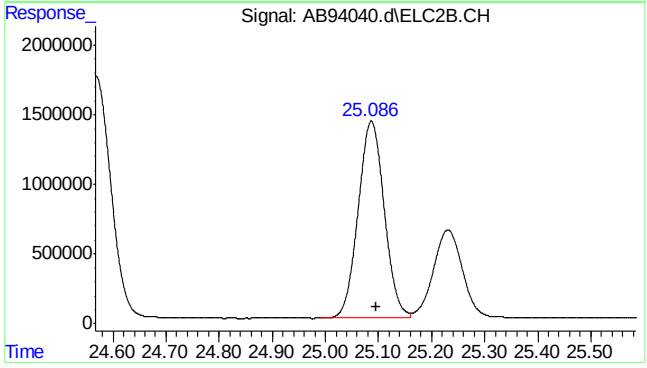
#23 1,2,4-trimethylbenzene #2

R.T.: 25.087 min
Delta R.T.: -0.009 min
Response: 49013968
Conc: 51.21 ppb



#24 naphthalene #2

R.T.: 28.030 min
Delta R.T.: -0.009 min
Response: 33964128
Conc: 46.98 ppb m



#25 c9-c10 arom as 1,2,4-tmb

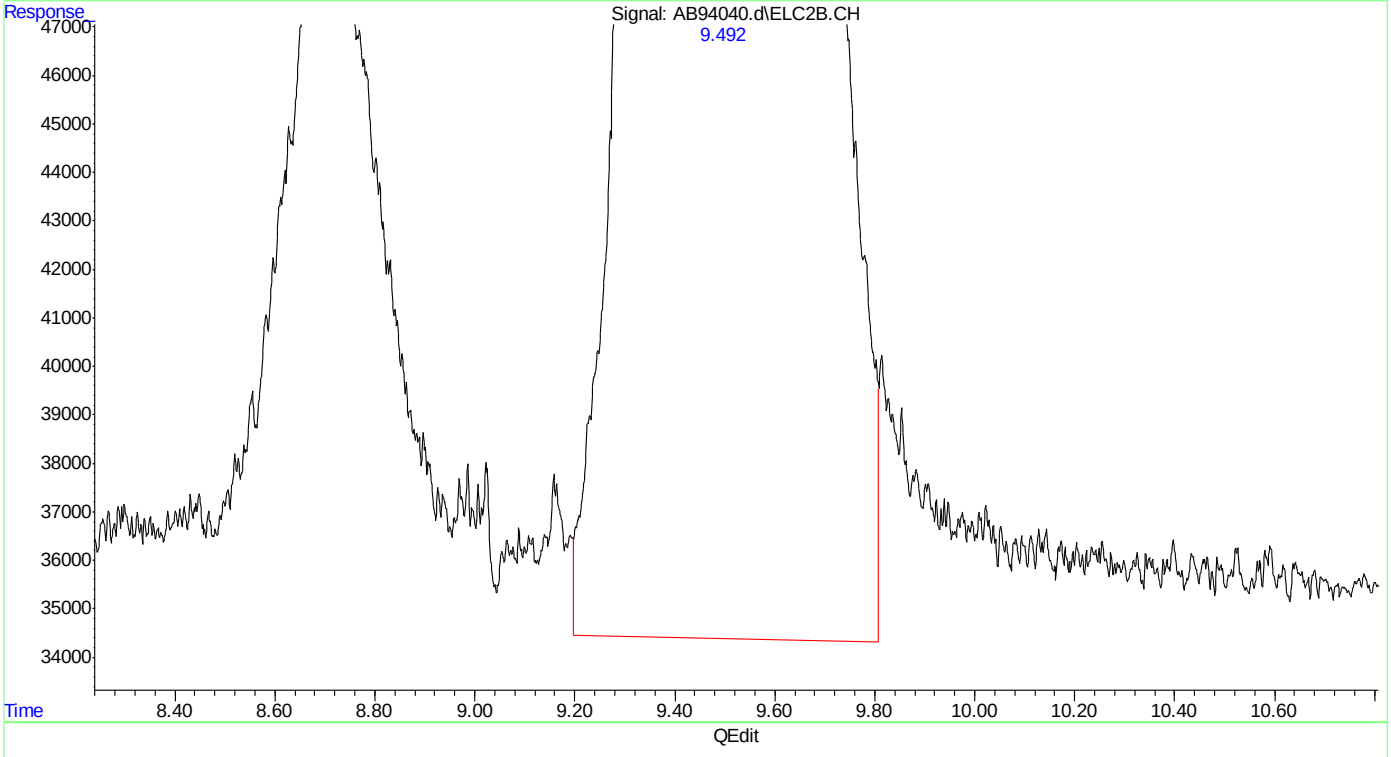
R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 48542090
Conc: 50.67 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94040.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 12:46:30
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26234,gab5168,20,,100,20,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 13:42:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
9.494min 52.963 ppb
response 26717491

(+) = Expected Retention Time
ab160512vph.M Thu May 12 13:43:19 2016 Page: 1

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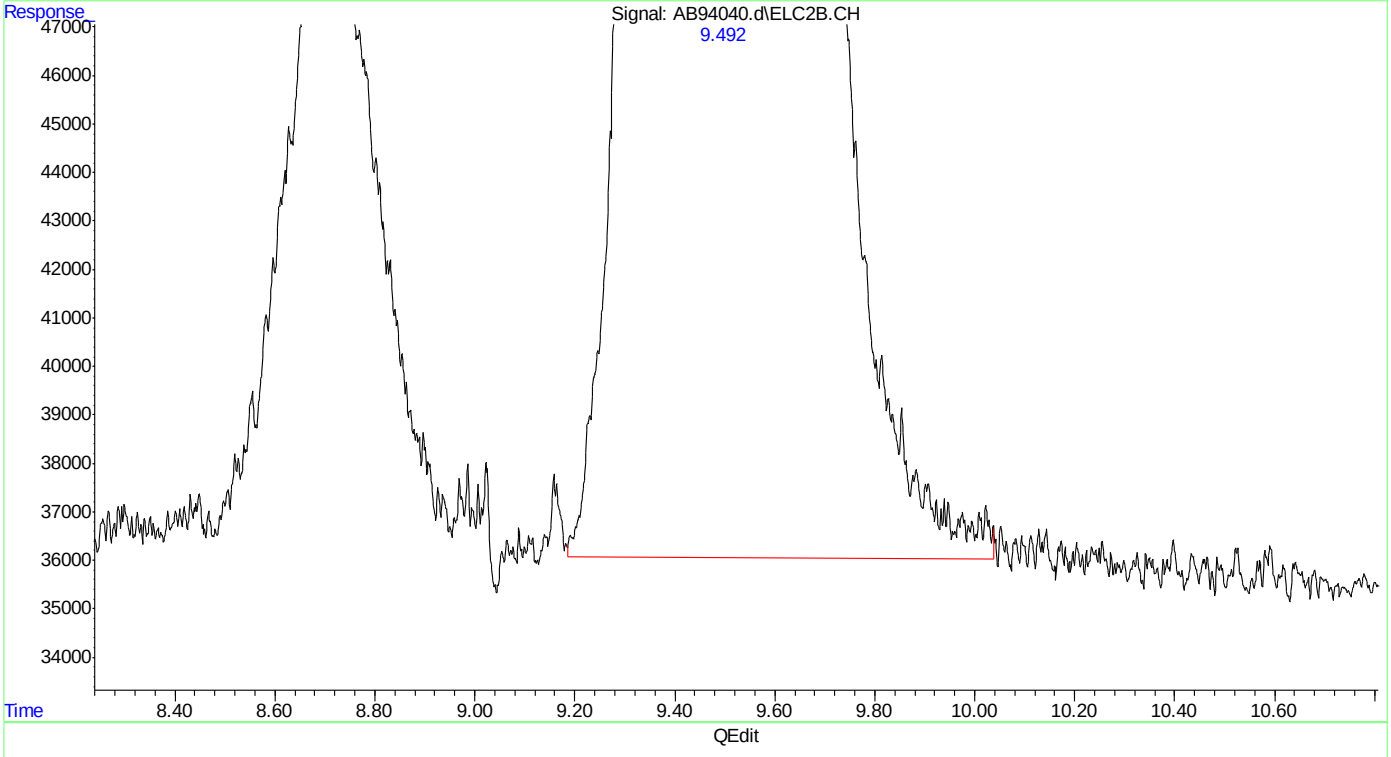
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94040.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 12:46:30
Operator  : tonyf
Sample    : bsd,s,vmavph,20
Misc      : gc26234,gab5168,20,,100,20,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 13:42:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.492min 52.145 ppb m

response 26304576

(+) = Expected Retention Time

ab160512vph.M Thu May 12 13:43:29 2016

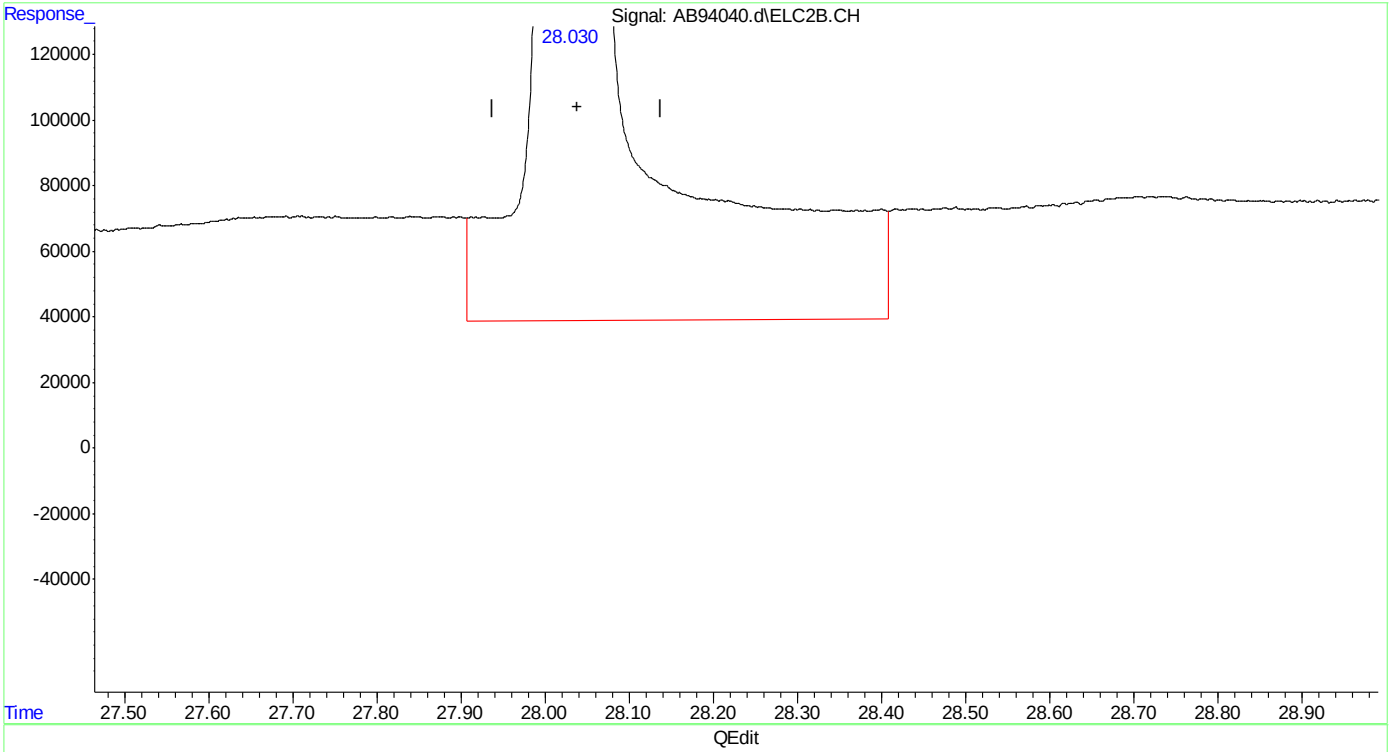
Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94040.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 12:46:30
Operator  : tonyf
Sample    : bsd,s,vmavph,20
Misc      : gc26234,gab5168,20,,100,20,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 13:42:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.030min 60.231 ppb

response 43541607

(+) = Expected Retention Time

ab160512vph.M Thu May 12 13:43:42 2016

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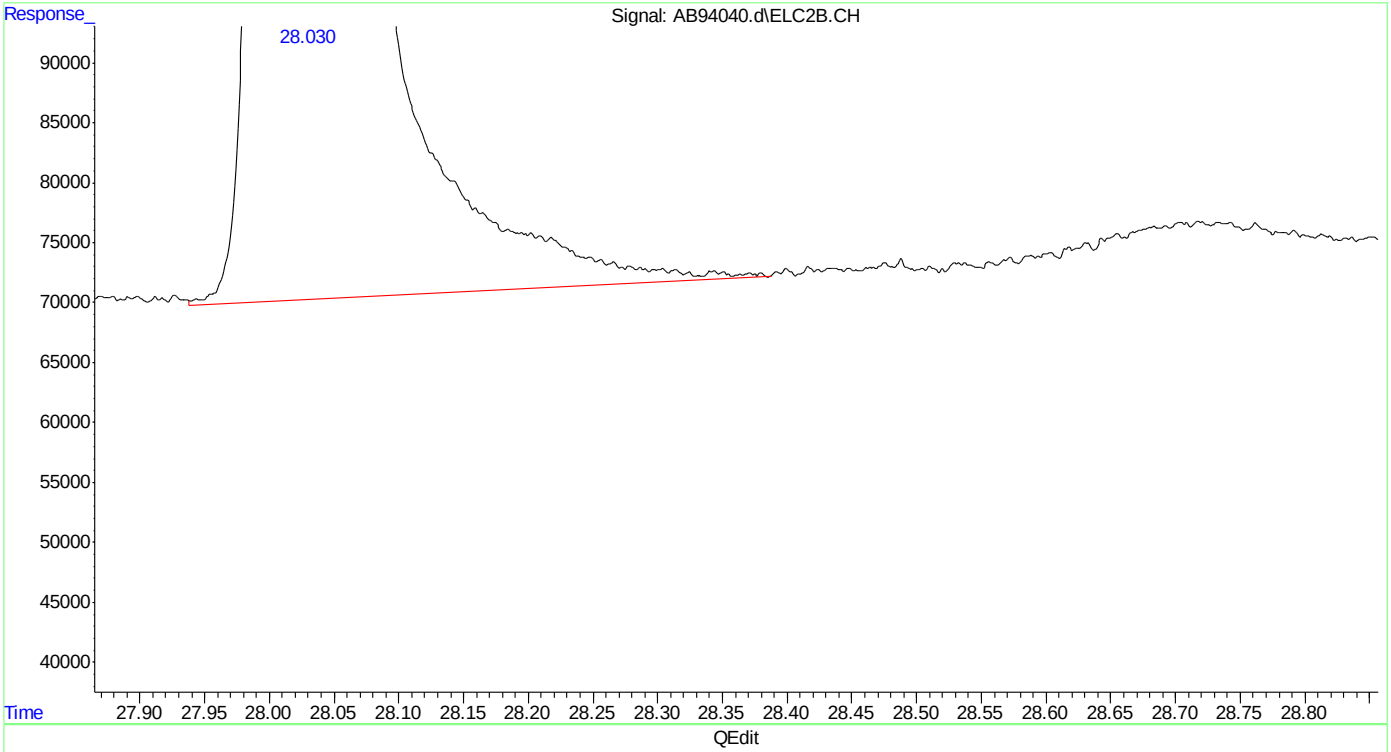
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94040.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 12:46:30
Operator  : tonyf
Sample    : bsd,s,vmavph,20
Misc      : gc26234,gab5168,20,,100,20,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 13:42:26 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.030min 46.982 ppb m

response 33964128

(+) = Expected Retention Time

ab160512vph.M Thu May 12 13:43:51 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/17/16 09:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:55:35
Operator : tonyf
Sample : mc45816-2ms,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:30:12 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.134	24628143	55.955	ppb	
Spiked Amount 50.000		Recovery = 111.91%			
6) s 2,3,4-trifluorotoluene	20.191	21302078	51.962	ppb	
Spiked Amount 50.000		Recovery = 103.92%			
16) s fluorobenzene #2	15.130	46645814	55.383	ppb	m
Spiked Amount 50.000		Recovery = 110.77%			
18) s 2,3,4-trifluorotoluen...	20.187	23388842	50.096	ppb	m
Spiked Amount 50.000		Recovery = 100.19%			
Target Compounds					
1) h rt5.5-7	6.420	11788151	29.360	ppb	
2) h rt7/10	8.720	24773631	61.701	ppb	
3) h rt10/13	13.870	68963593	171.761	ppb	
8) h rt20/25	21.870	243604352	388.832	ppb	
14) mtbe #2	9.500	23412669	46.412	ppb	m
15) benzene #2	14.630	56125511	43.119	ppb	m
17) toluene #2	19.090	48786108	42.672	ppb	m
19) ethylbenzene #2	22.188	40652321	43.908	ppb	
20) m,p-xylene #2	22.331	98613922	92.969	ppb	m
21) o-xylene #2	23.137	41354156	44.270	ppb	
23) 1,2,4-trimethylbenzen...	25.088	40731664	42.560	ppb	
24) naphthalene #2	28.031	28956706	40.056	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	133895639	139.759	ppb	

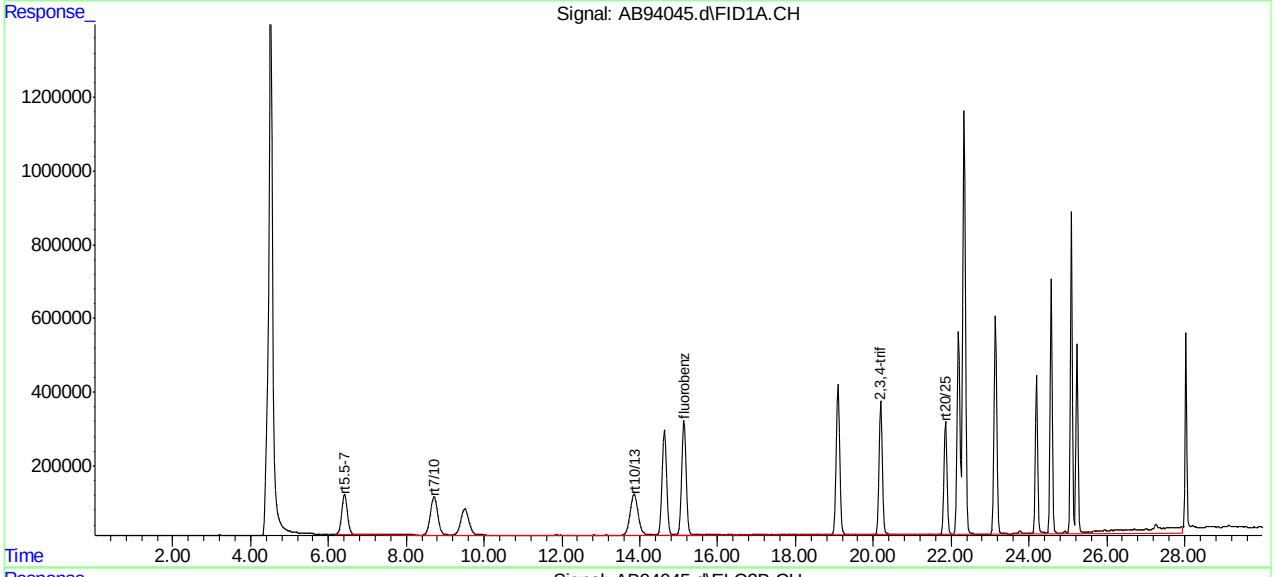
(f)=RT Delta > 1/2 Window (m)=manual int.

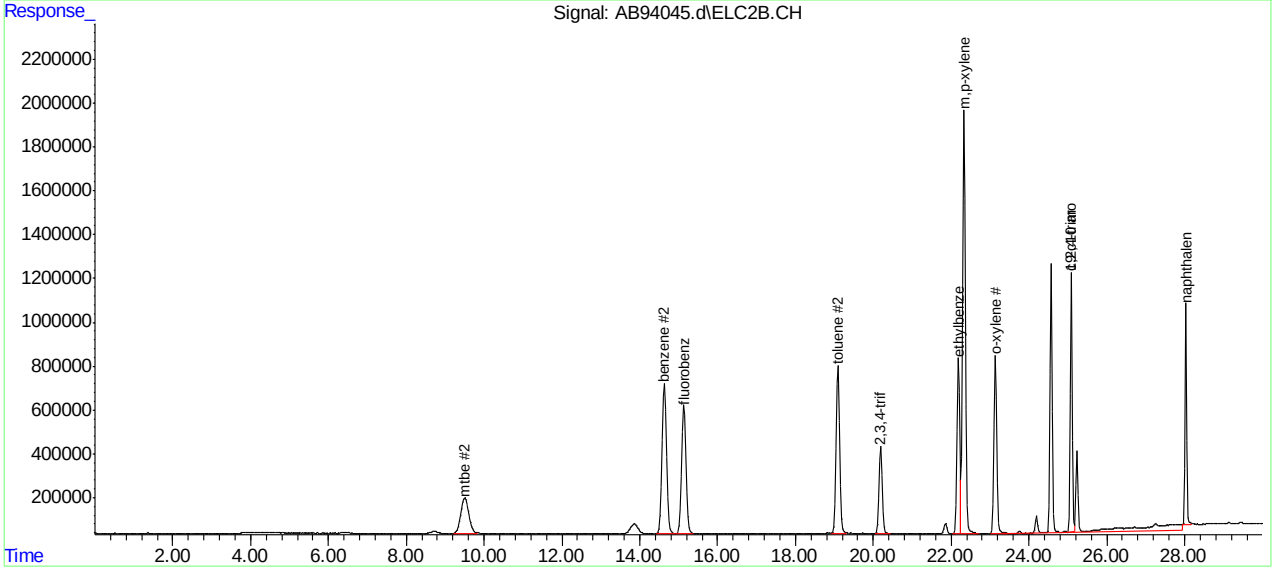
Quantitation Report (QT Reviewed)

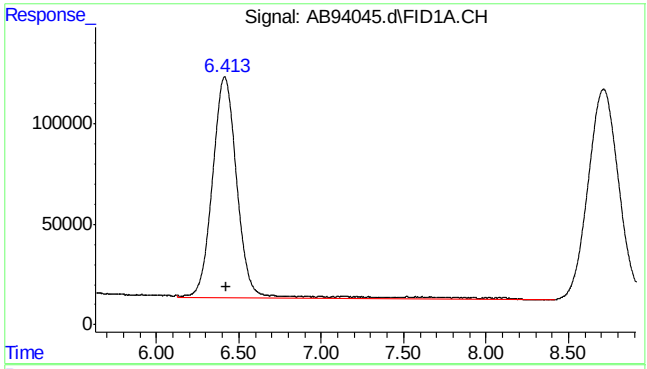
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:55:35
Operator : tonyf
Sample : mc45816-2ms,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:30:12 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

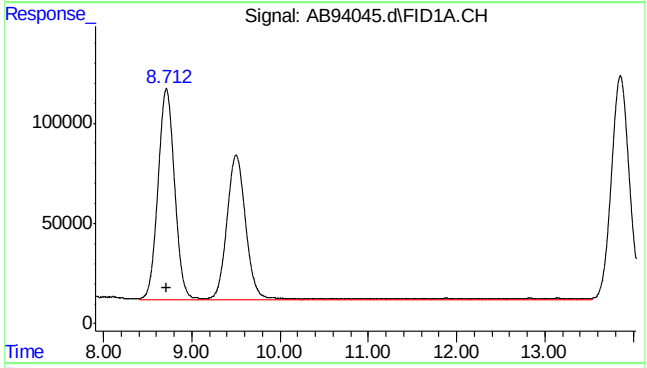






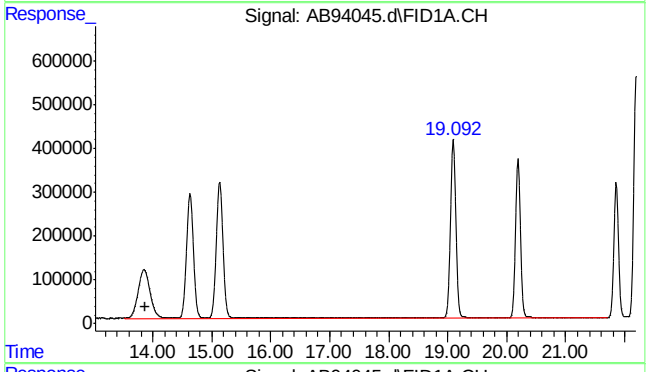
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 11788151
Conc: 29.36 ppb



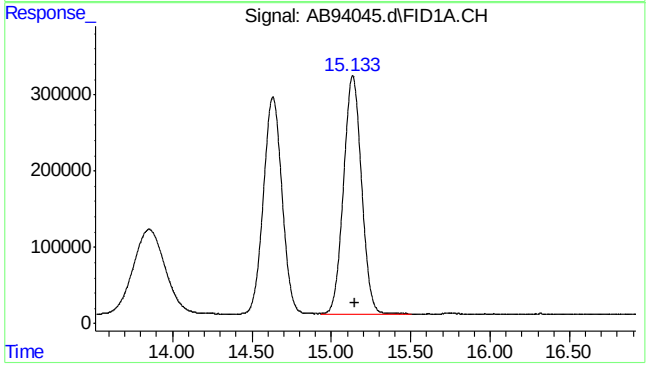
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 24773631
Conc: 61.70 ppb



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 68963593
Conc: 171.76 ppb



#4 fluorobenzene

R.T.: 15.134 min
Delta R.T.: -0.017 min
Response: 24628143
Conc: 55.96 ppb

7.4.1

7

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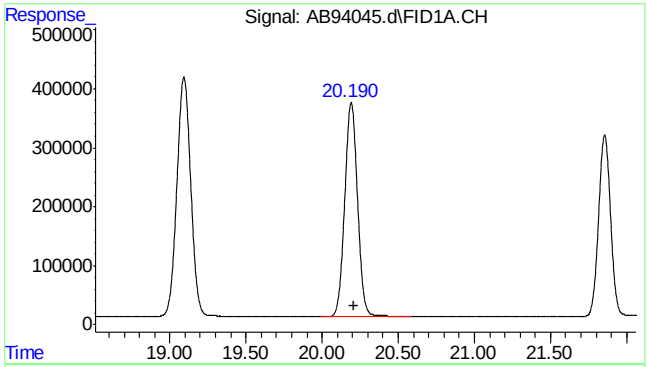
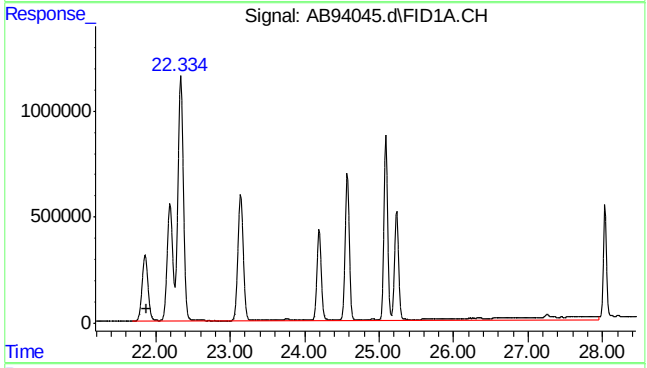


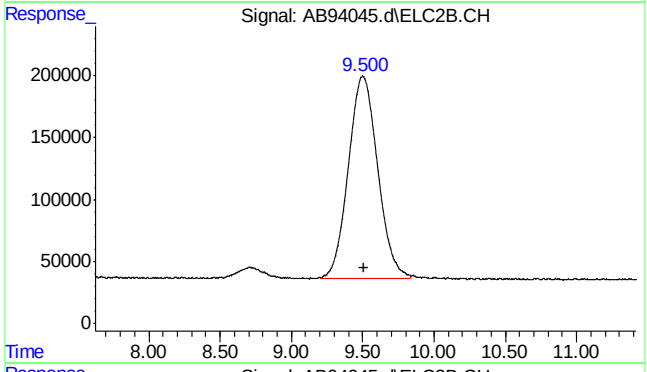
#6 2,3,4-trifluorotoluene

R.T.: 20.191 min
Delta R.T.: -0.014 min
Response: 21302078
Conc: 51.96 ppb



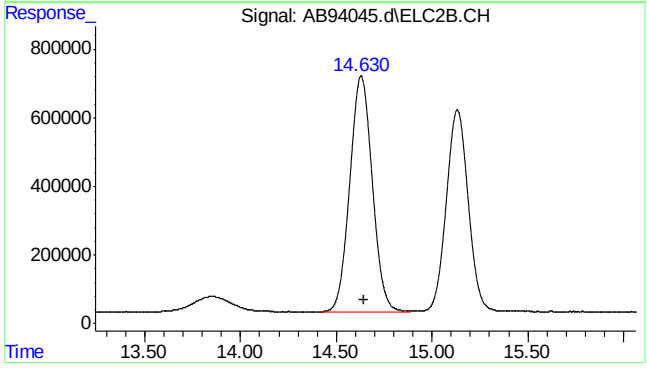
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 243604352
Conc: 388.83 ppb



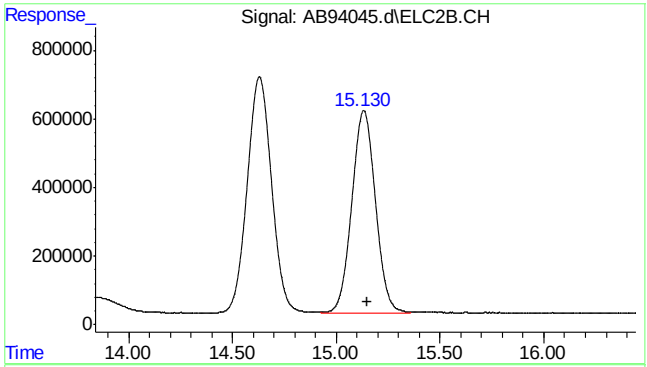
#14 mtbe #2

R.T.: 9.500 min
Delta R.T.: -0.011 min
Response: 23412669
Conc: 46.41 ppb m



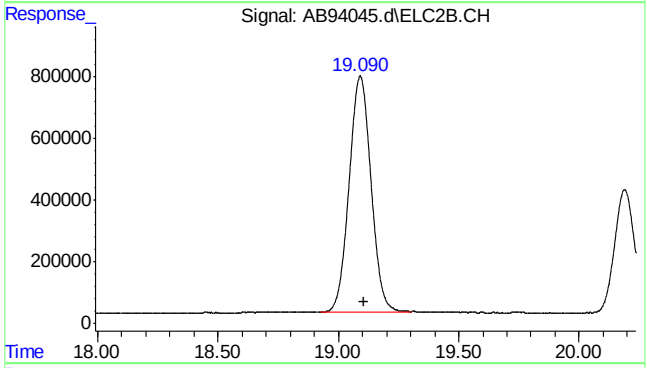
#15 benzene #2

R.T.: 14.630 min
Delta R.T.: -0.016 min
Response: 56125511
Conc: 43.12 ppb m



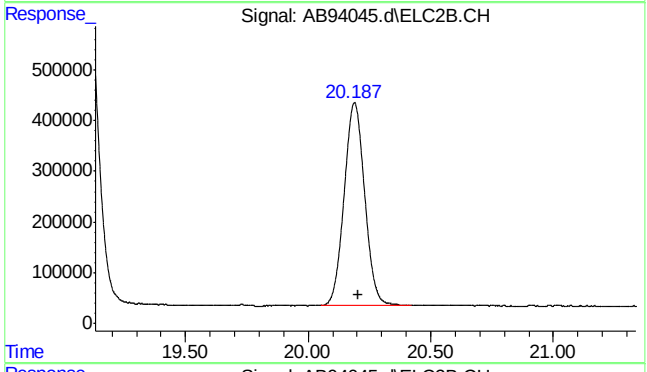
#16 fluorobenzene #2

R.T.: 15.130 min
Delta R.T.: -0.018 min
Response: 46645814
Conc: 55.38 ppb m



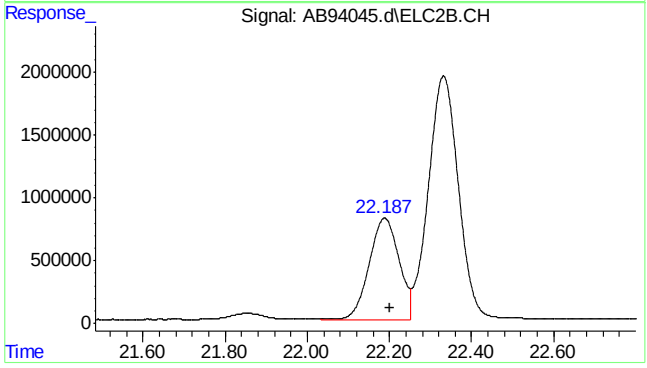
#17 toluene #2

R.T.: 19.090 min
Delta R.T.: -0.016 min
Response: 48786108
Conc: 42.67 ppb m



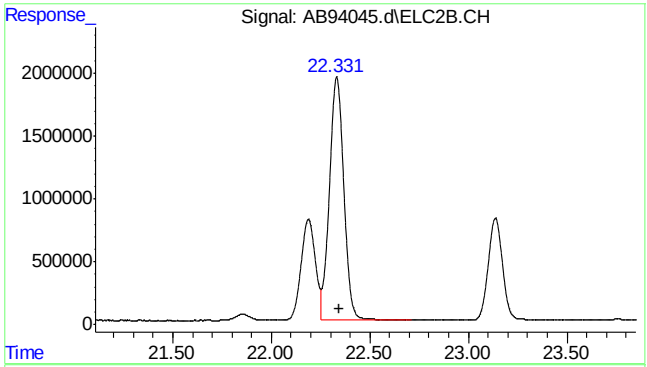
#18 2,3,4-trifluorotoluene #2

R.T.: 20.187 min
Delta R.T.: -0.016 min
Response: 23388842
Conc: 50.10 ppb m



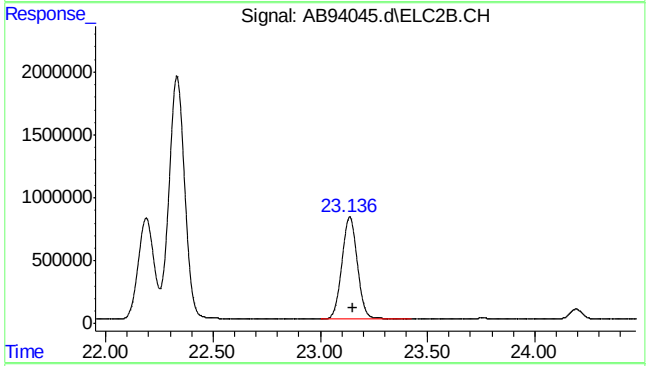
#19 ethylbenzene #2

R.T.: 22.188 min
Delta R.T.: -0.013 min
Response: 40652321
Conc: 43.91 ppb



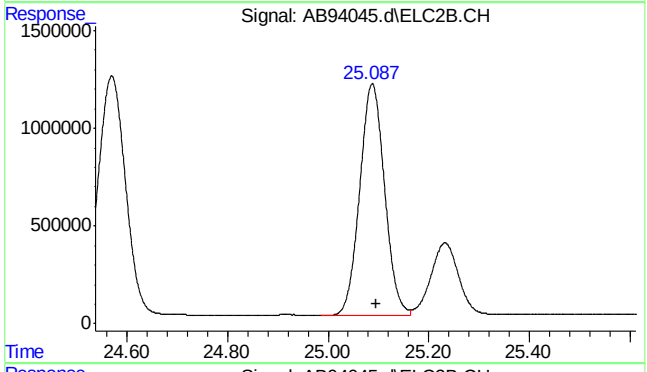
#20 m,p-xylene #2

R.T.: 22.331 min
Delta R.T.: -0.013 min
Response: 98613922
Conc: 92.97 ppb m



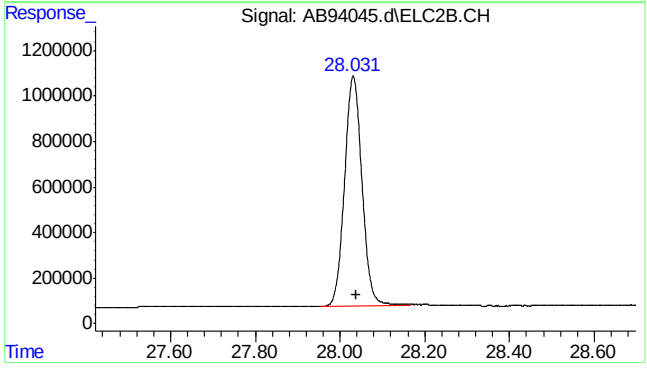
#21 o-xylene #2

R.T.: 23.137 min
Delta R.T.: -0.013 min
Response: 41354156
Conc: 44.27 ppb



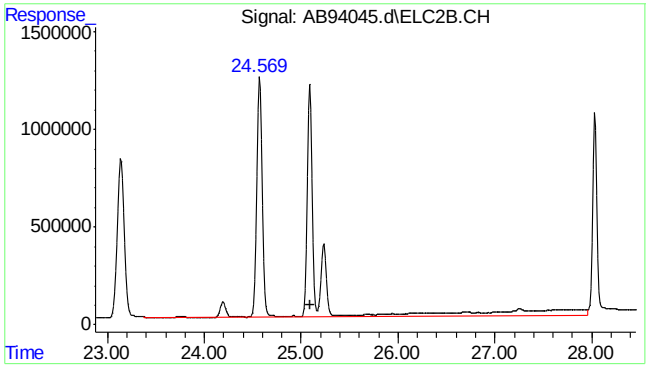
#23 1,2,4-trimethylbenzene #2

R.T.: 25.088 min
Delta R.T.: -0.008 min
Response: 40731664
Conc: 42.56 ppb



#24 naphthalene #2

R.T.: 28.031 min
Delta R.T.: -0.007 min
Response: 28956706
Conc: 40.06 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 133895639
Conc: 139.76 ppb

7.4.1

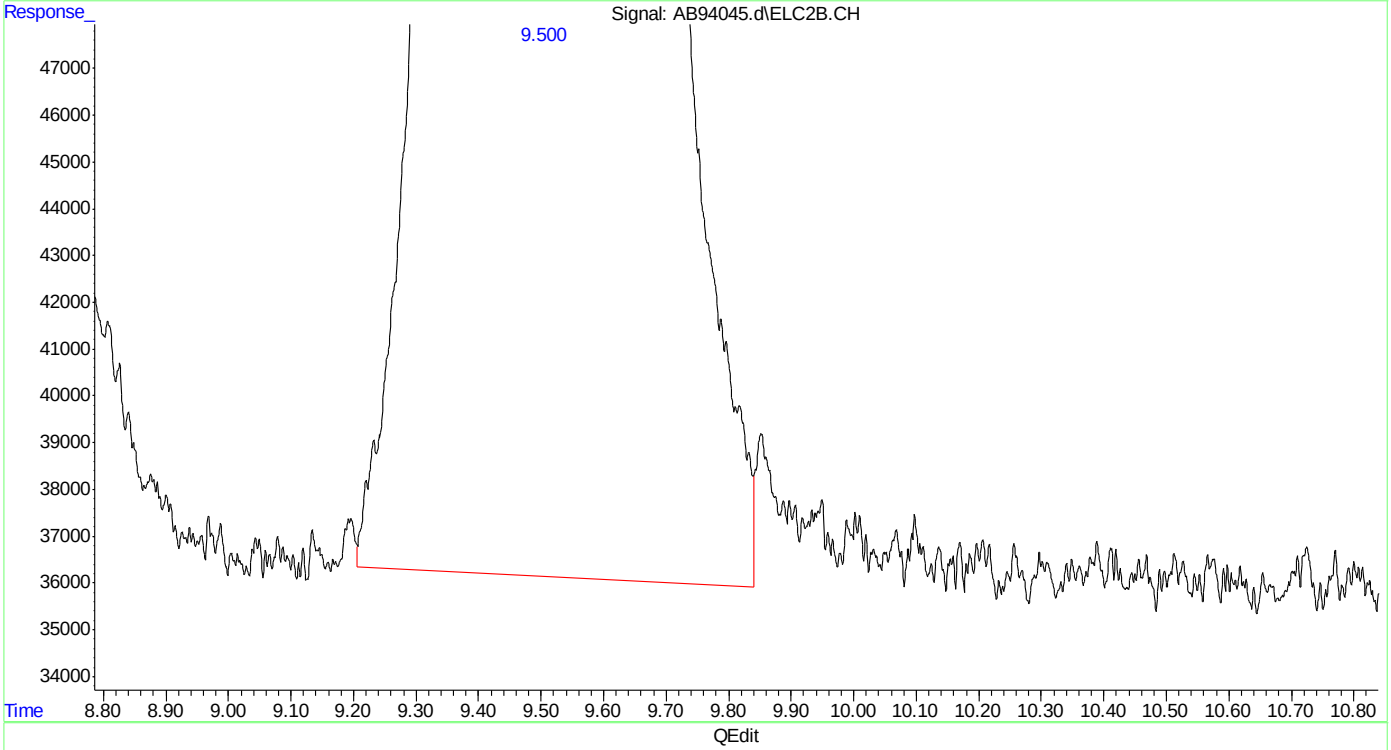
7

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 15:55:35
Operator  : tonyf
Sample    : mc45816-2ms,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.500min 46.581 ppb

response 23497681

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:28:44 2016

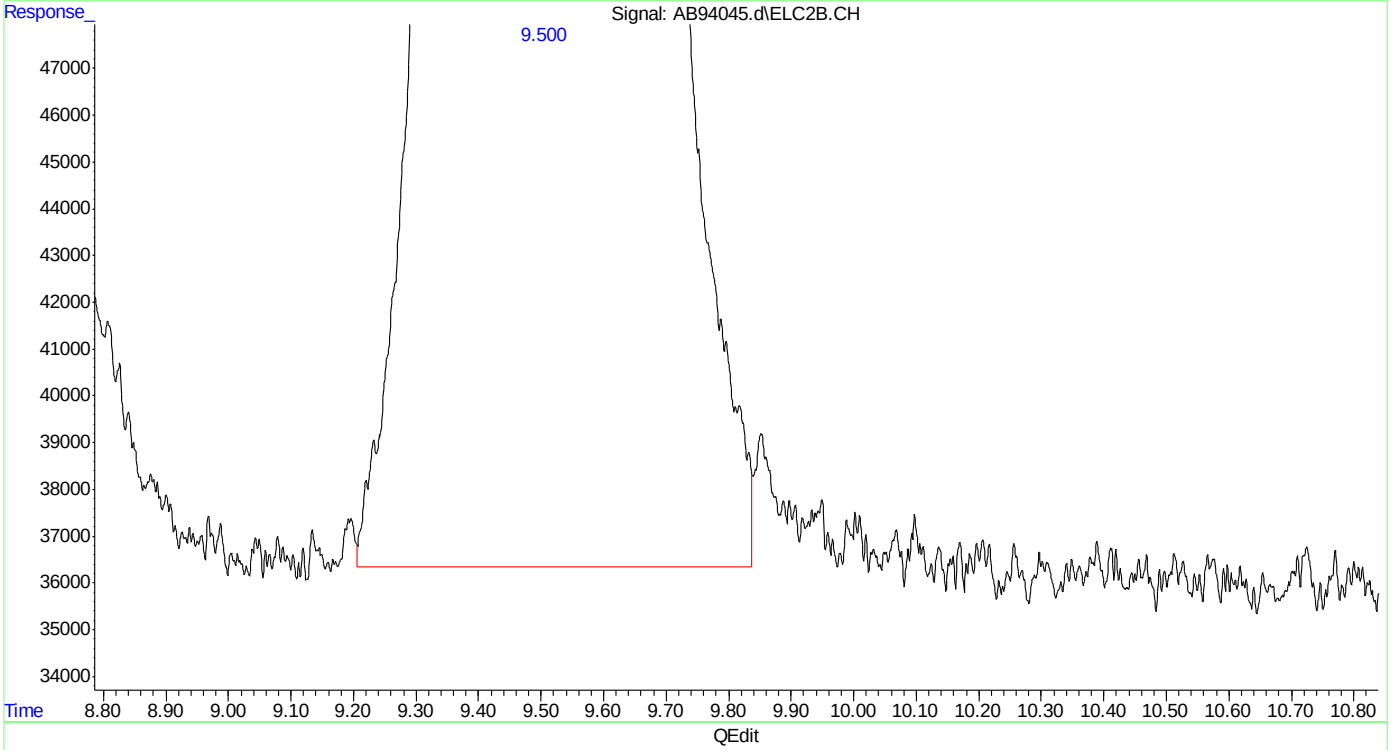
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 15:55:35
Operator  : tonyf
Sample    : mc45816-2ms,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.500min 46.412 ppb m

response 23412669

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:28:55 2016

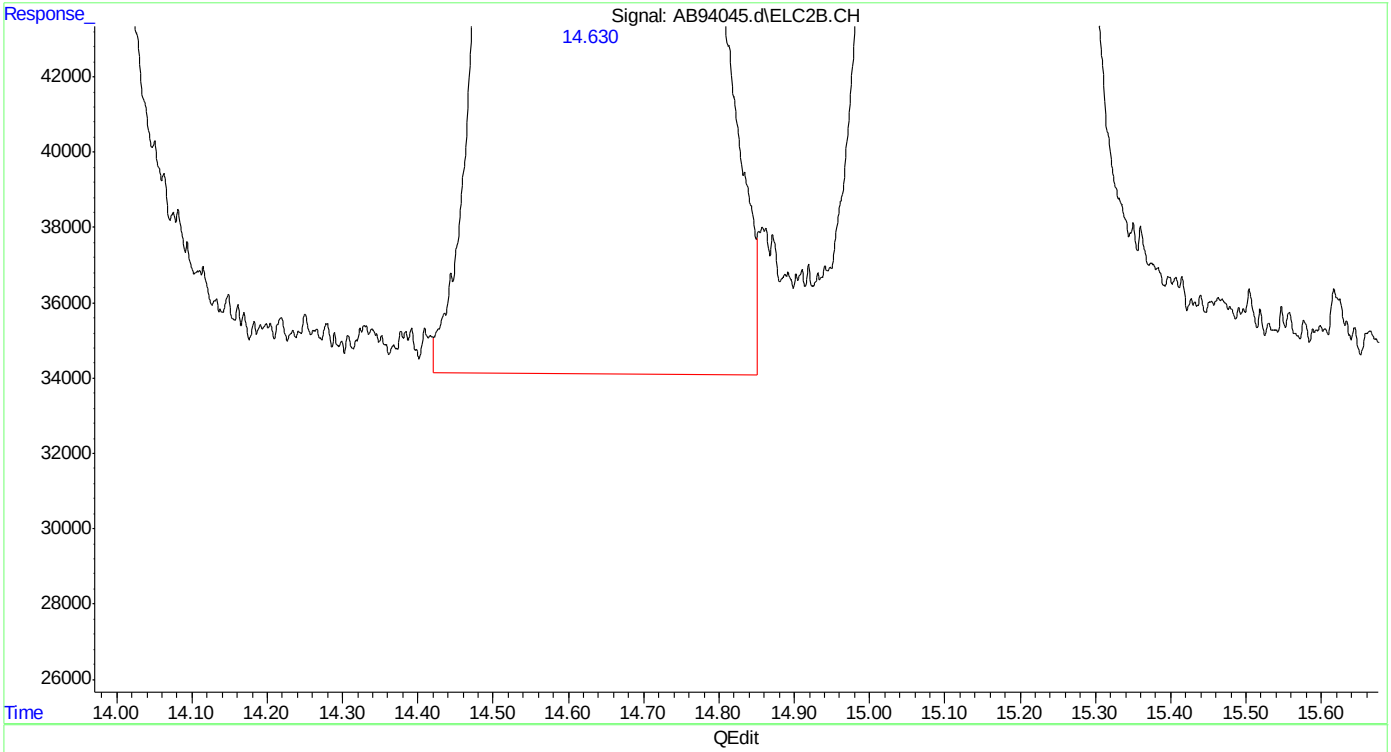
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 15:55:35
Operator  : tonyf
Sample    : mc45816-2ms,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(15) benzene #2

14.630min 43.188 ppb

response 56215340

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:29:00 2016

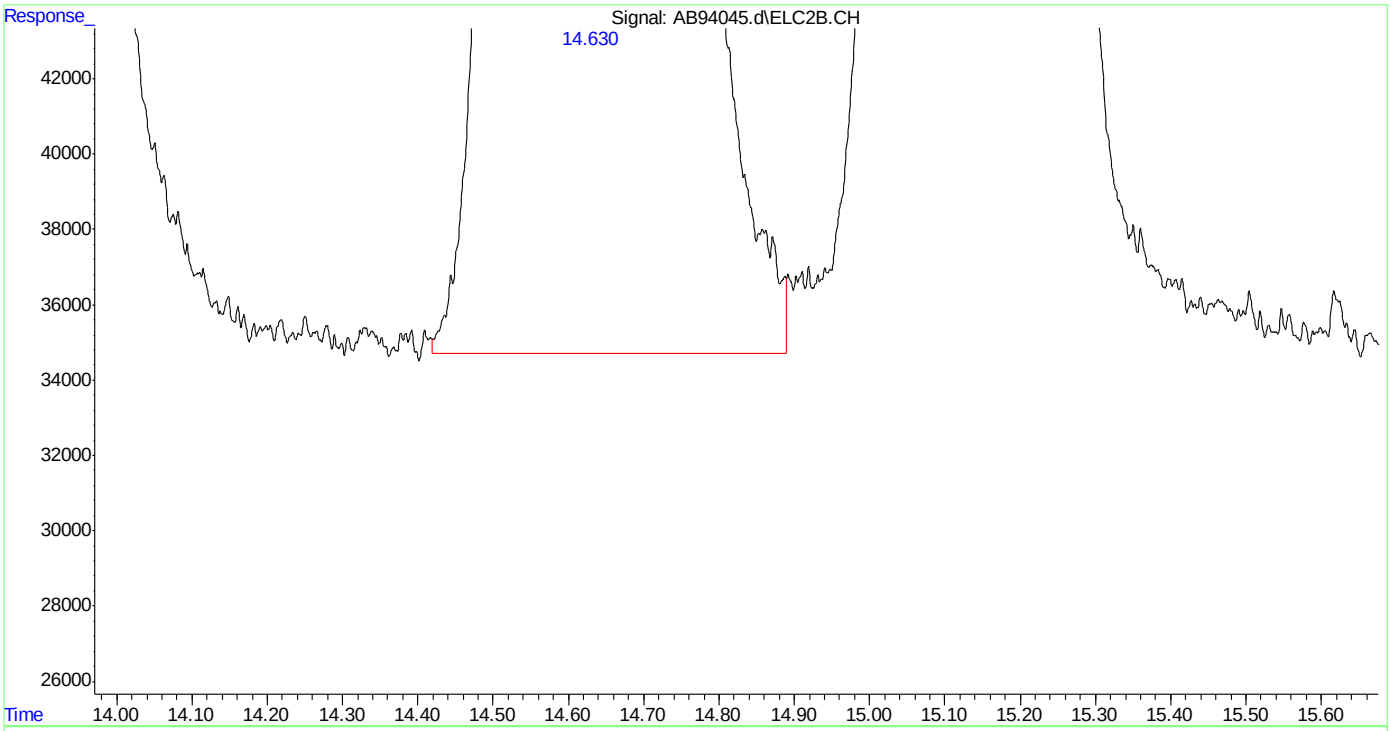
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 15:55:35
Operator  : tonyf
Sample    : mc45816-2ms,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(15) benzene #2

14.630min 43.119 ppb m

response 56125511

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:29:06 2016

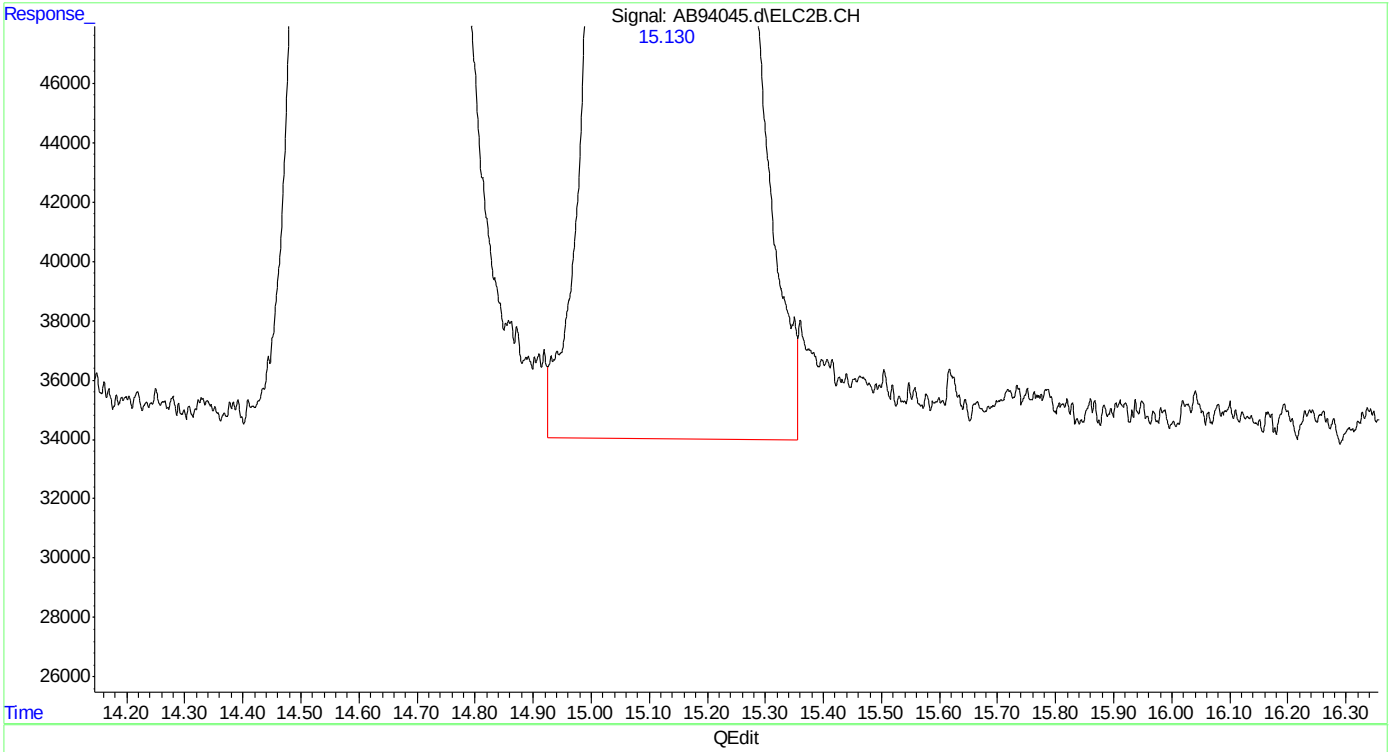
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 15:55:35
Operator  : tonyf
Sample    : mc45816-2ms,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(16) fluorobenzene #2 (s)

15.132min 55.635 ppb

response 46858296

(+) = Expected Retention Time

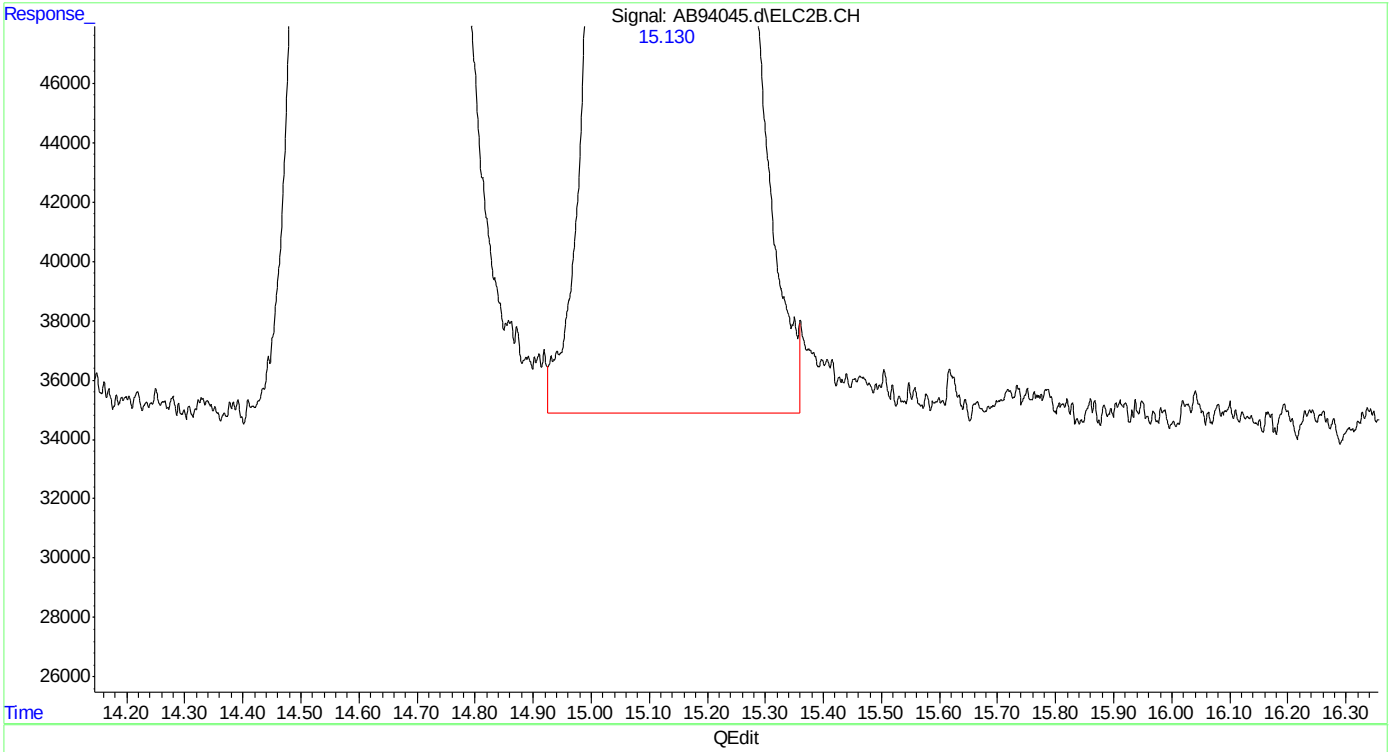
ab160512vph.M Fri May 13 17:29:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:55:35
Operator : tonyf
Sample : mc45816-2ms,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) fluorobenzene #2 (s)
15.130min 55.383 ppb m
response 46645814

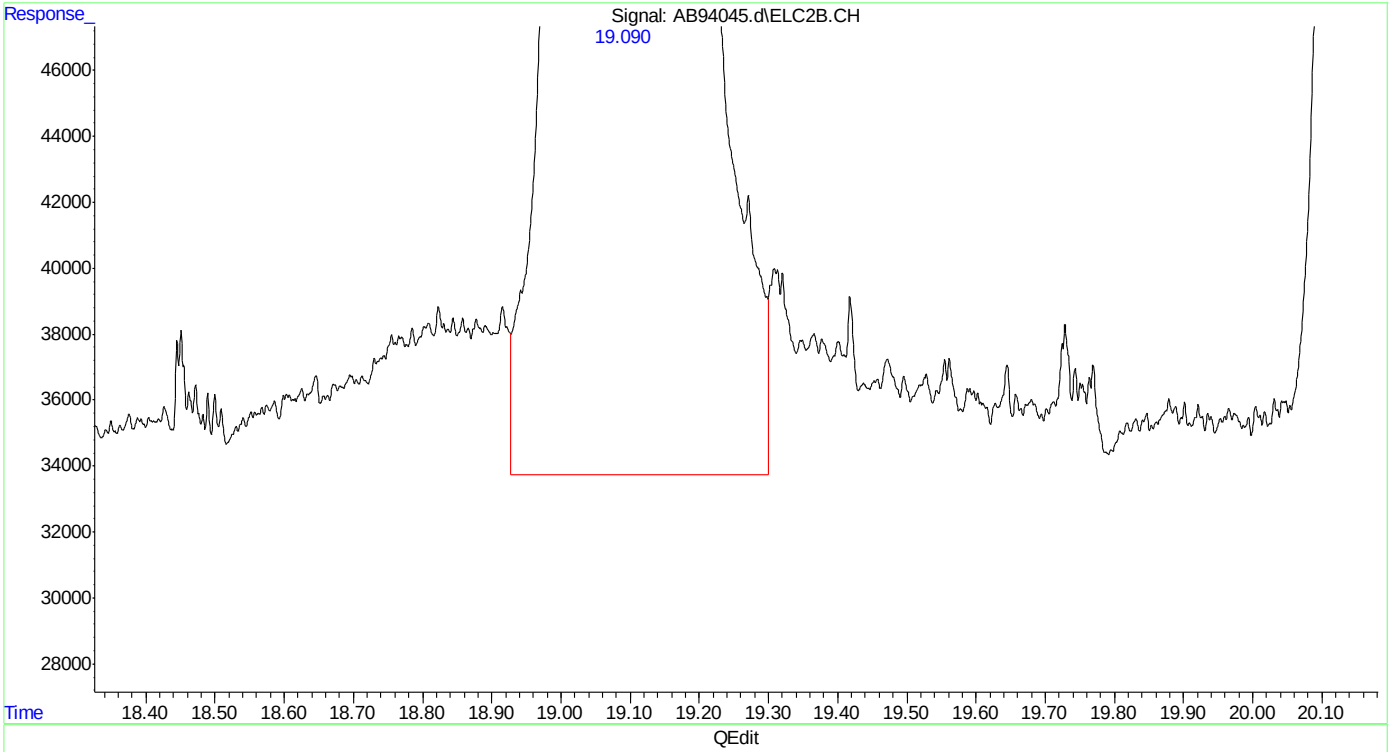
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:29:18 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:55:35
Operator : tonyf
Sample : mc45816-2ms,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
19.090min 43.167 ppb
response 49352649

(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:29:23 2016

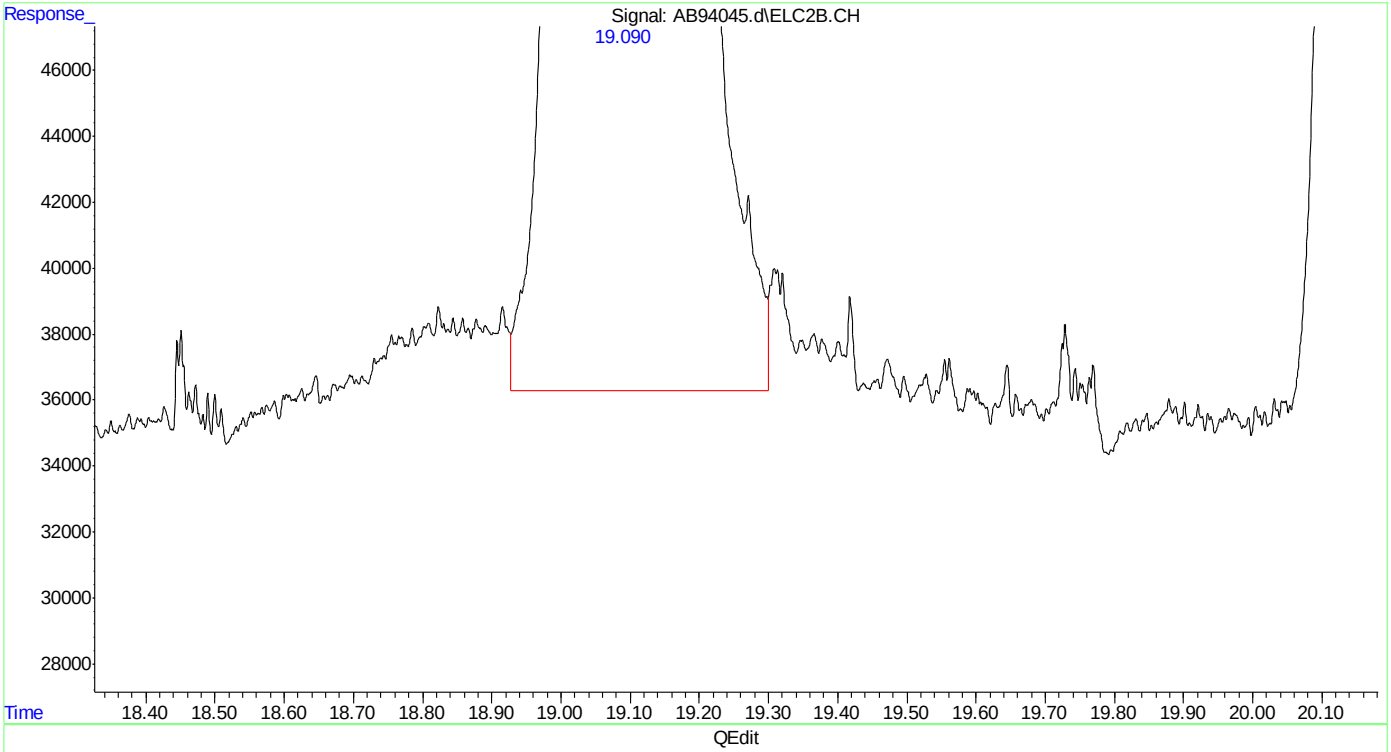
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:55:35
Operator : tonyf
Sample : mc45816-2ms,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
19.090min 42.672 ppb m
response 48786108

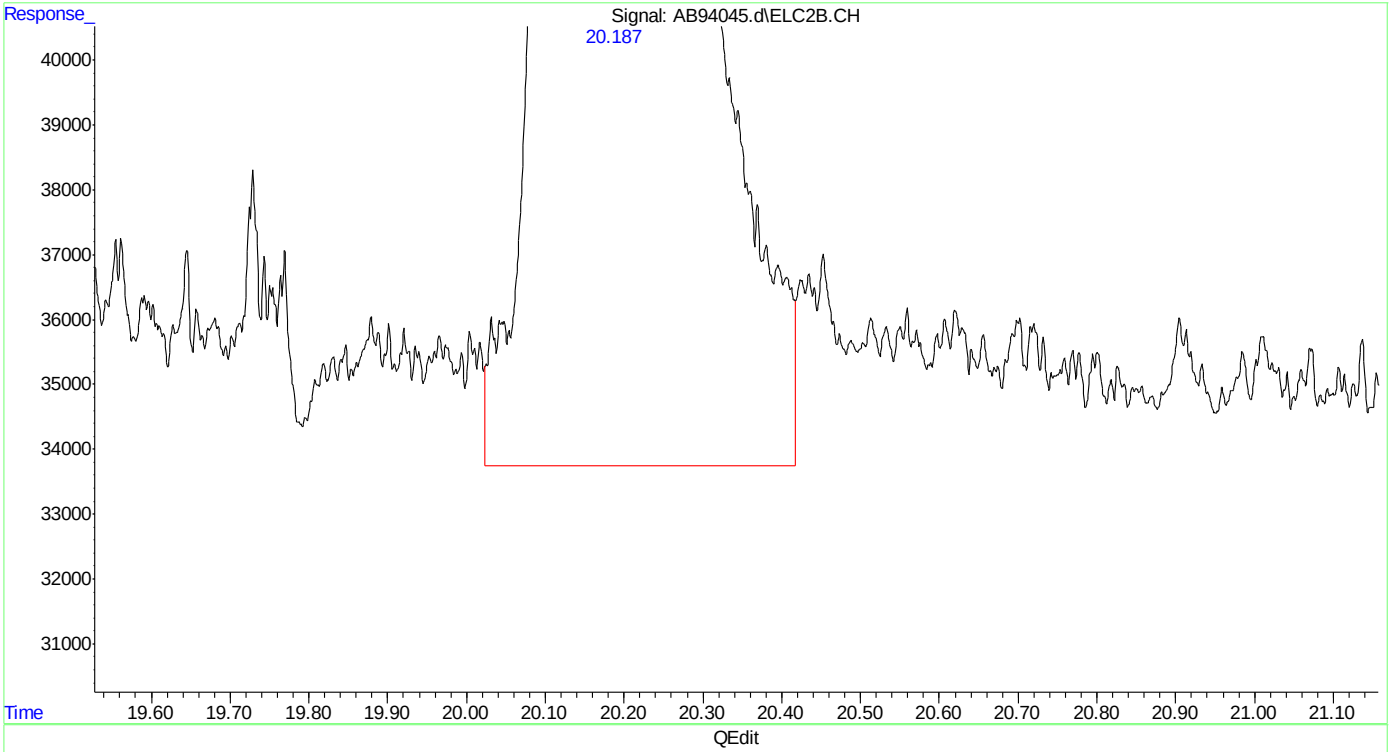
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:29:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:55:35
Operator : tonyf
Sample : mc45816-2ms,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
20.189min 50.836 ppb
response 23734078

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:55:35
Operator : tonyf
Sample : mc45816-2ms,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(18) 2,3,4-trifluorotoluene #2 (s)
20.187min 50.096 ppb m
response 23388842

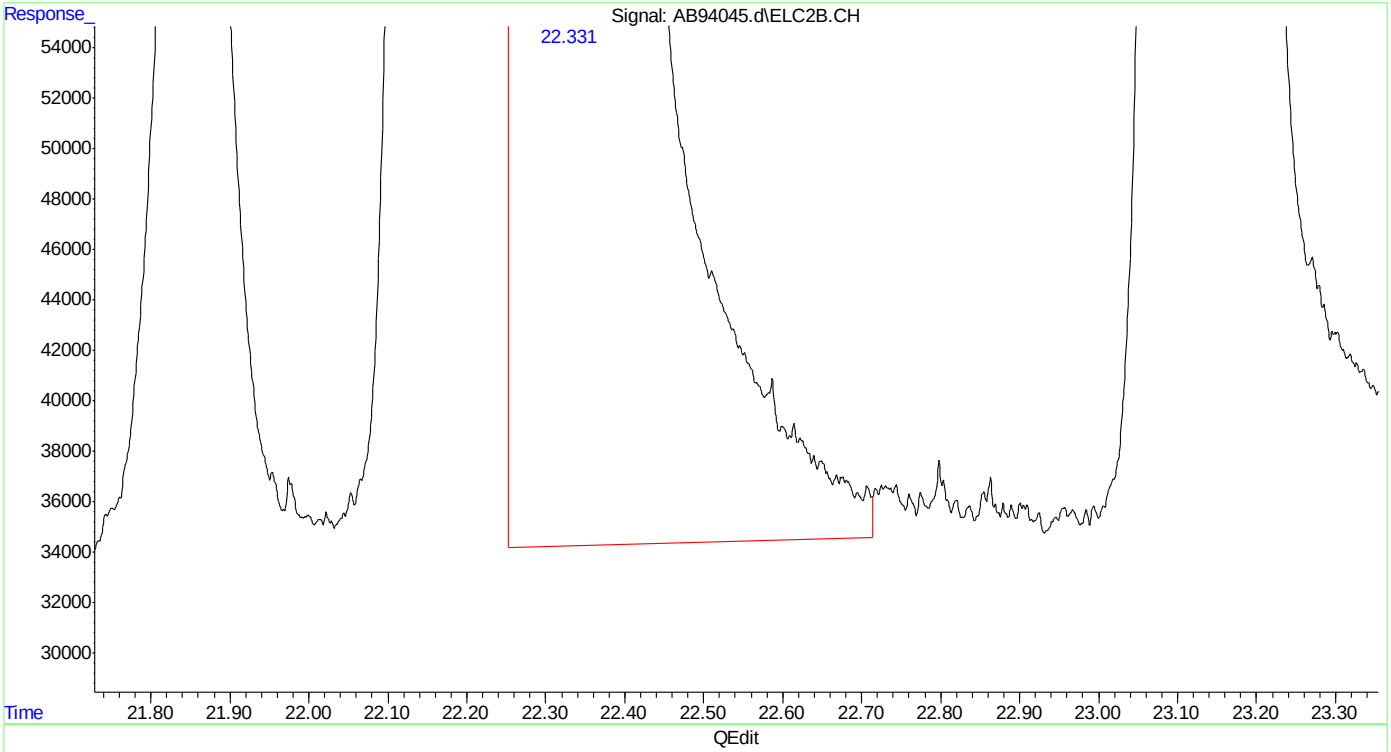
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:29:47 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:55:35
Operator : tonyf
Sample : mc45816-2ms,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
22.332min 93.232 ppb
response 98893166

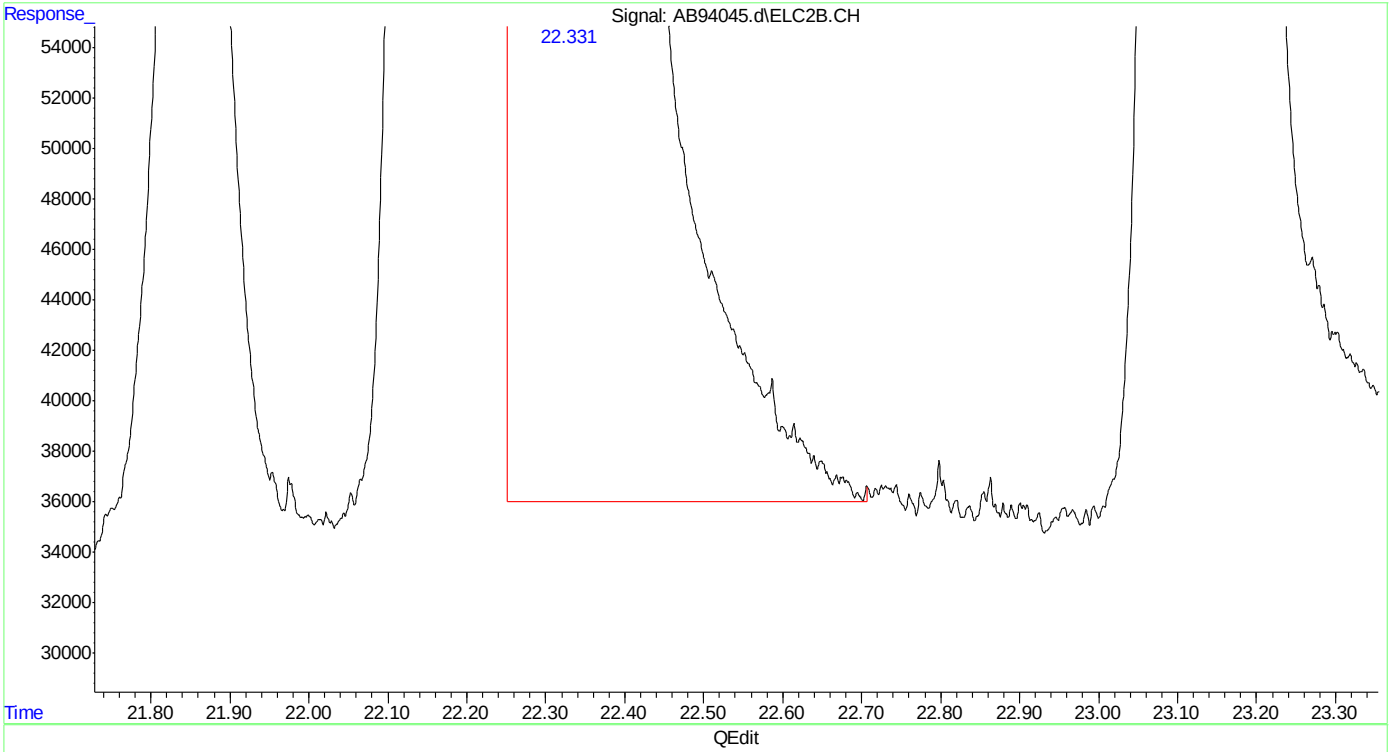
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:29:54 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 15:55:35
Operator : tonyf
Sample : mc45816-2ms,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
22.331min 92.969 ppb m
response 98613922

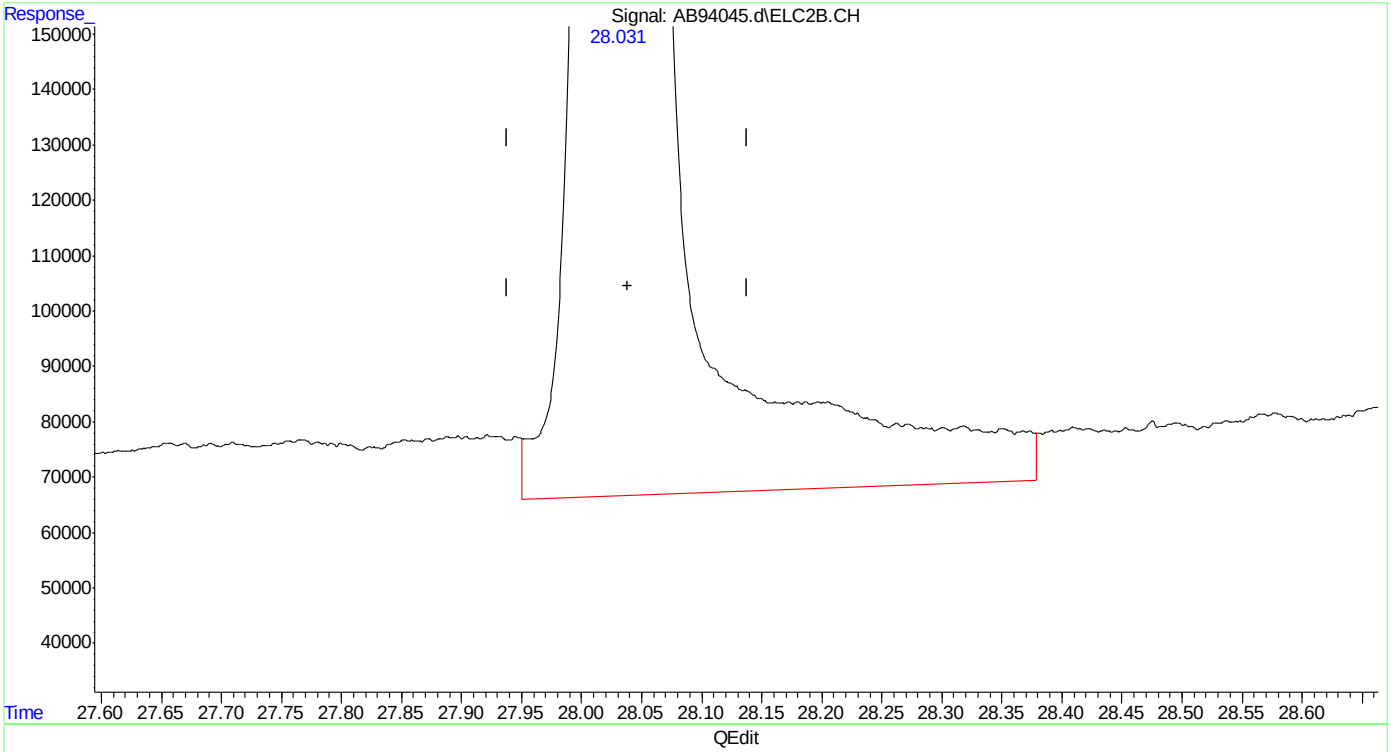
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:29:59 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 15:55:35
Operator  : tonyf
Sample    : mc45816-2ms,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.031min 44.022 ppb

response 31823976

(+) = Expected Retention Time

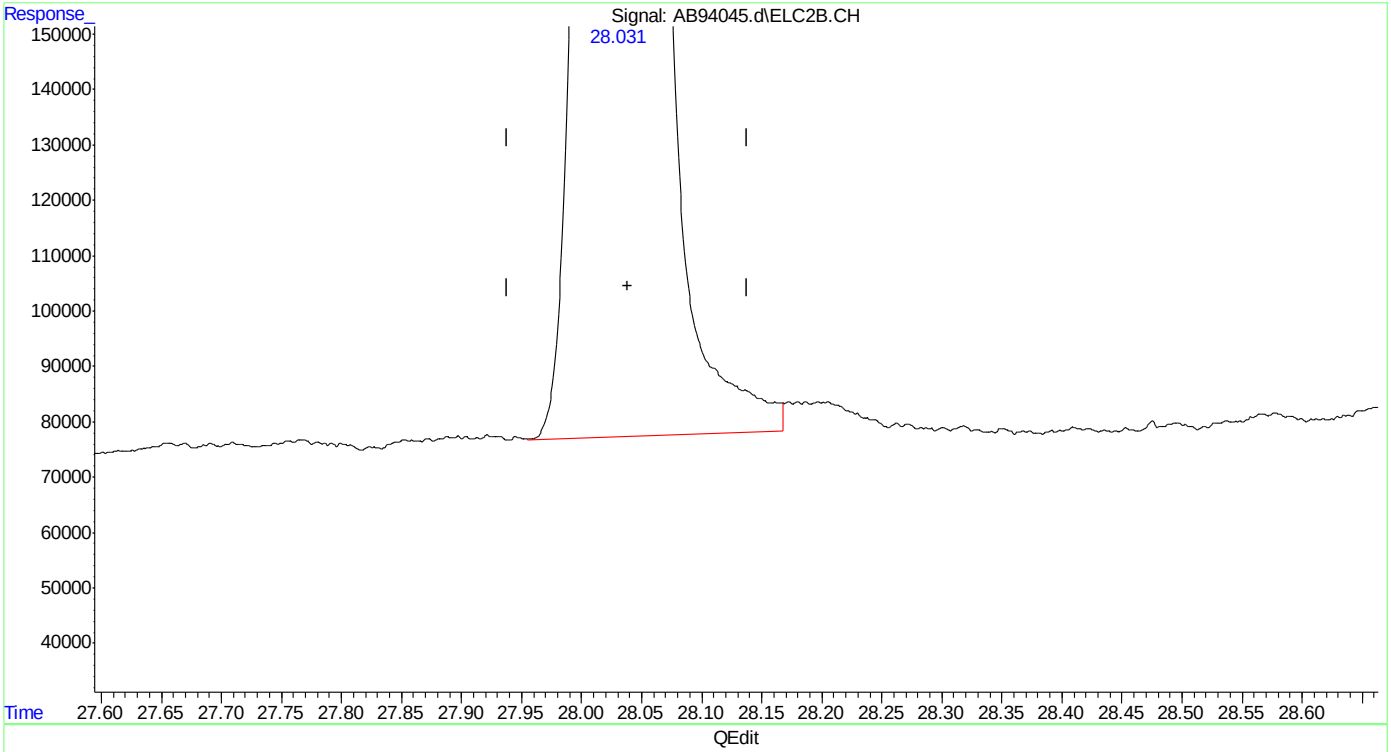
ab160512vph.M Fri May 13 17:30:09 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94045.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 15:55:35
Operator  : tonyf
Sample    : mc45816-2ms,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:15 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.031min 40.056 ppb m

response 28956706

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:30:14 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/17/16 09:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:32:58 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.134	23981320	54.486	ppb	m
Spiked Amount 50.000		Recovery = 108.97%			
6) s 2,3,4-trifluorotoluene	20.191	20742924	50.598	ppb	m
Spiked Amount 50.000		Recovery = 101.20%			
16) s fluorobenzene #2	15.130	45526119	54.053	ppb	m
Spiked Amount 50.000		Recovery = 108.11%			
18) s 2,3,4-trifluorotoluen...	20.189	22826029	48.891	ppb	m
Spiked Amount 50.000		Recovery = 97.78%			
Target Compounds					
1) h rt5.5-7	6.420	11486754	28.609	ppb	
2) h rt7/10	8.720	24446847	60.887	ppb	
3) h rt10/13	13.870	66801367	166.376	ppb	
8) h rt20/25	21.870	236554202	377.578	ppb	
14) mtbe #2	9.496	23269682	46.129	ppb	m
15) benzene #2	14.632	54870381	42.154	ppb	m
17) toluene #2	19.091	48017820	42.000	ppb	m
19) ethylbenzene #2	22.188	39788644	42.975	ppb	
20) m,p-xylene #2	22.332	96549926	91.023	ppb	m
21) o-xylene #2	23.138	40709892	43.580	ppb	
23) 1,2,4-trimethylbenzen...	25.088	40099179	41.899	ppb	
24) naphthalene #2	28.032	29379923	40.641	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	133132672	138.963	ppb	m

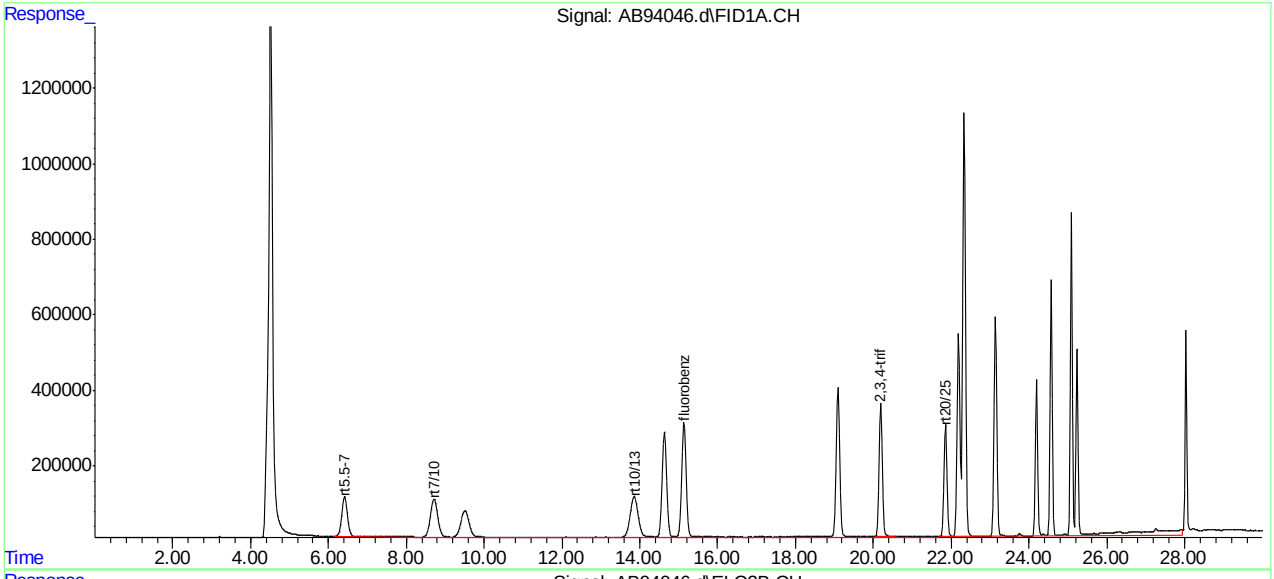
(f)=RT Delta > 1/2 Window (m)=manual int.

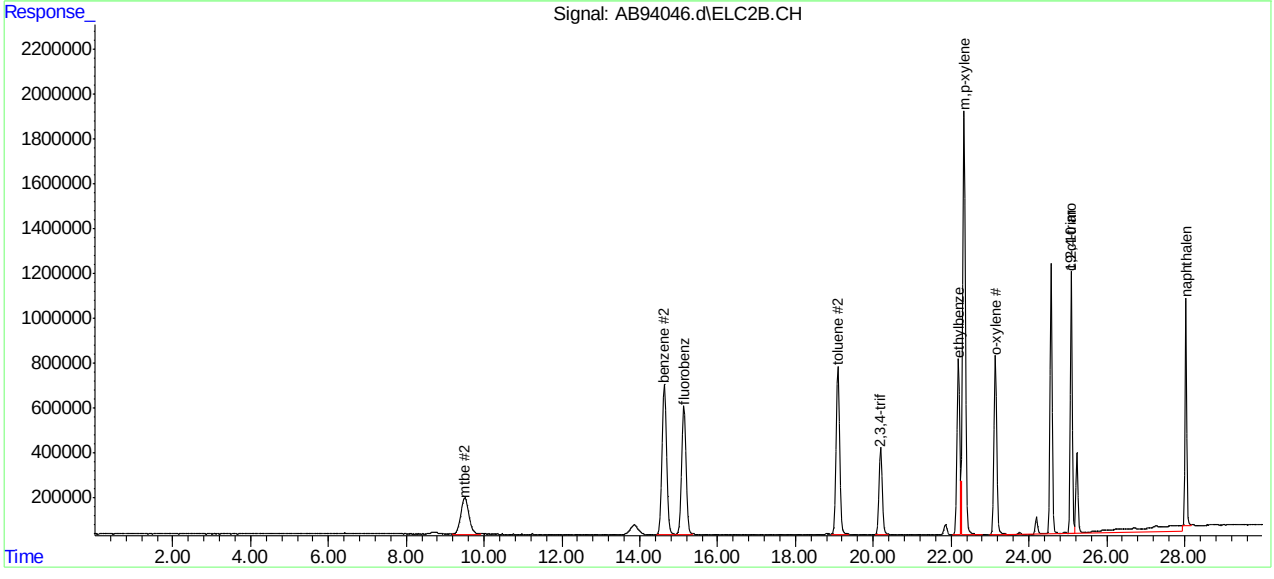
Quantitation Report (QT Reviewed)

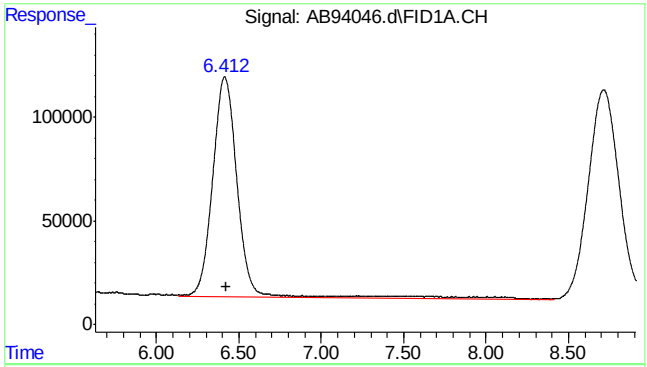
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:32:58 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

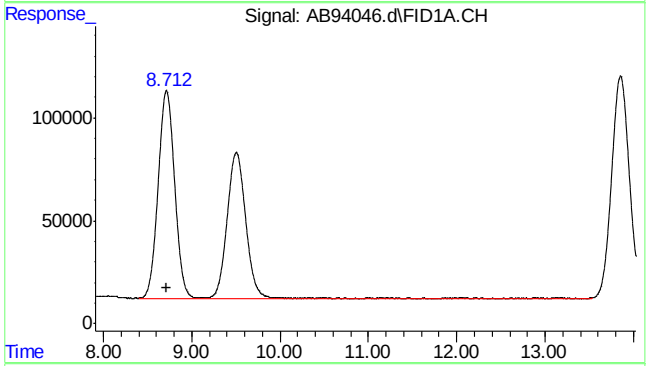






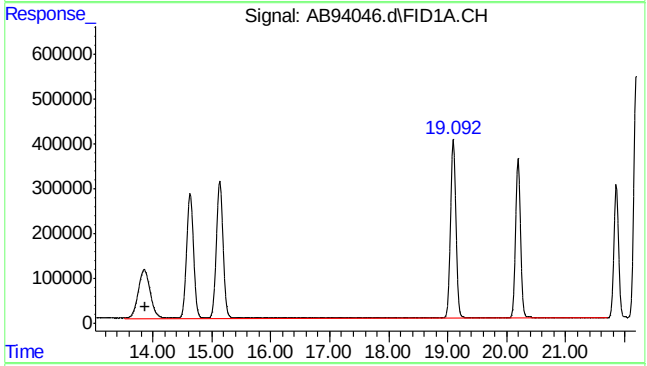
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 11486754
Conc: 28.61 ppb



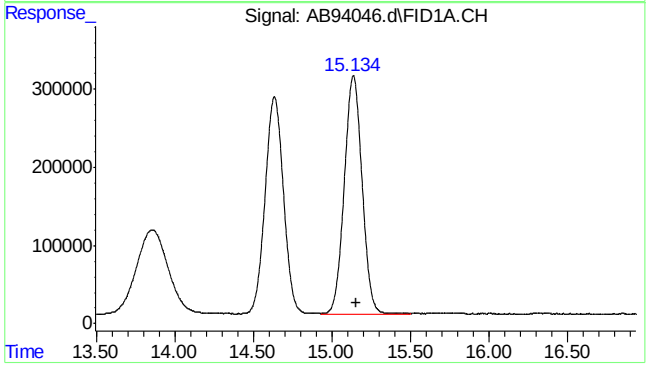
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 24446847
Conc: 60.89 ppb



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 66801367
Conc: 166.38 ppb



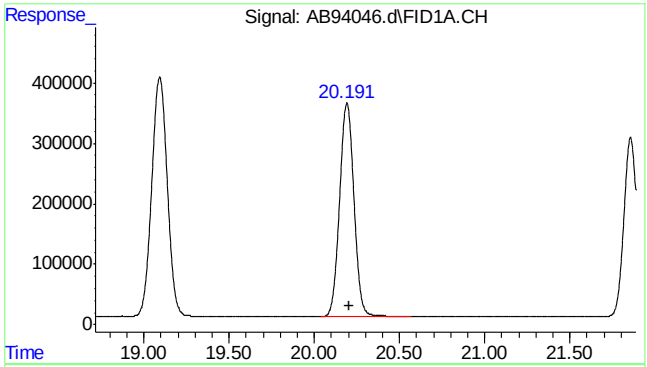
#4 fluorobenzene

R.T.: 15.134 min
Delta R.T.: -0.017 min
Response: 23981320
Conc: 54.49 ppb m

7.4.2

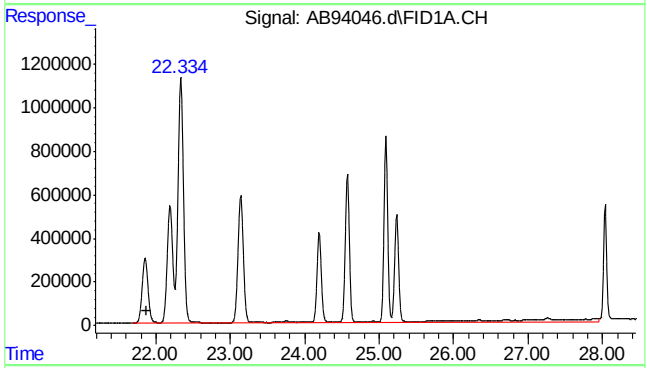
7

SGS ACCUTEST MC45816A



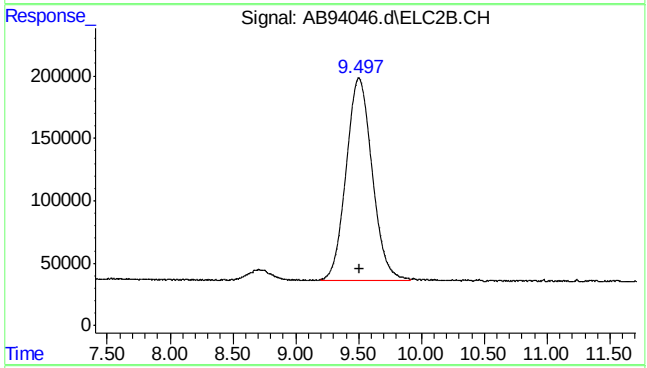
#6 2,3,4-trifluorotoluene

R.T.: 20.191 min
Delta R.T.: -0.015 min
Response: 20742924
Conc: 50.60 ppb m



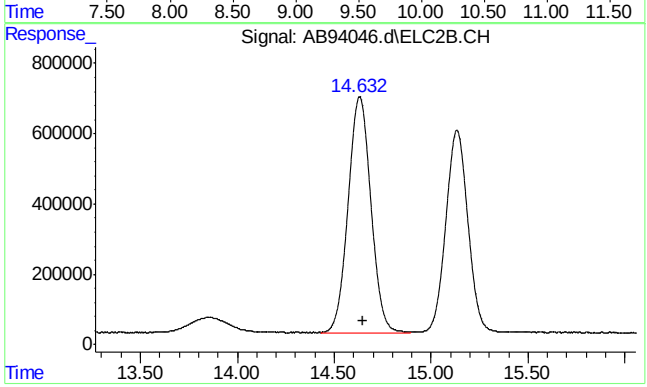
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 236554202
Conc: 377.58 ppb



#14 mtbe #2

R.T.: 9.496 min
Delta R.T.: -0.014 min
Response: 23269682
Conc: 46.13 ppb m



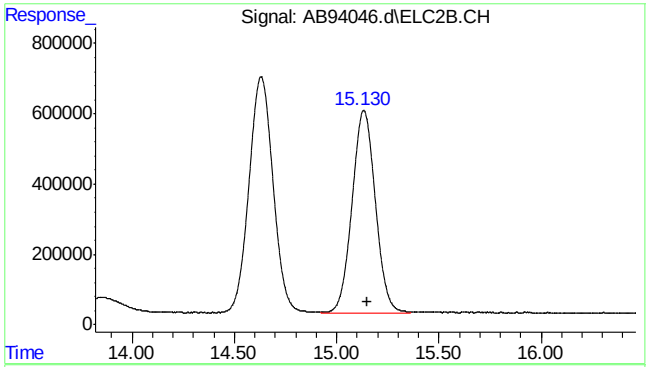
#15 benzene #2

R.T.: 14.632 min
Delta R.T.: -0.014 min
Response: 54870381
Conc: 42.15 ppb m

7.4.2

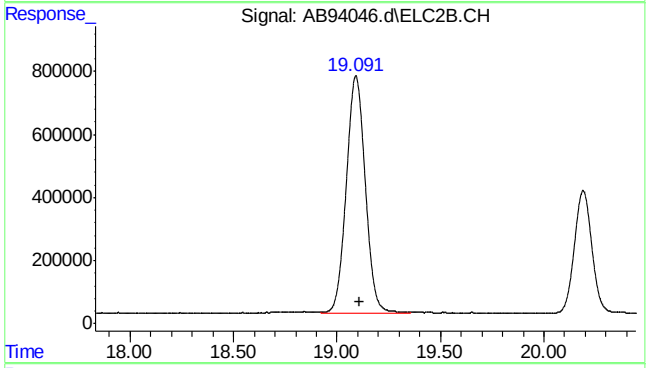
7

SGS ACCUTEST MC45816A



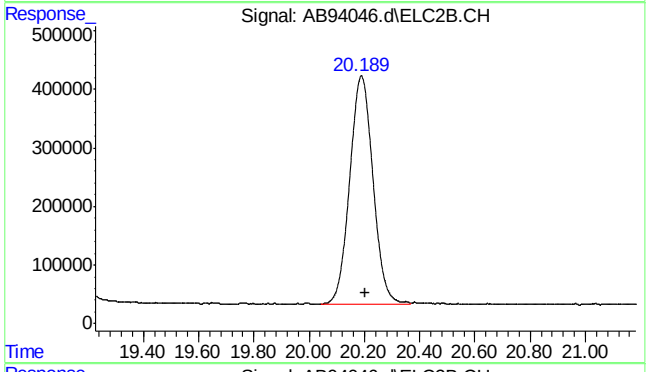
#16 fluorobenzene #2

R.T.: 15.130 min
Delta R.T.: -0.018 min
Response: 45526119
Conc: 54.05 ppb m



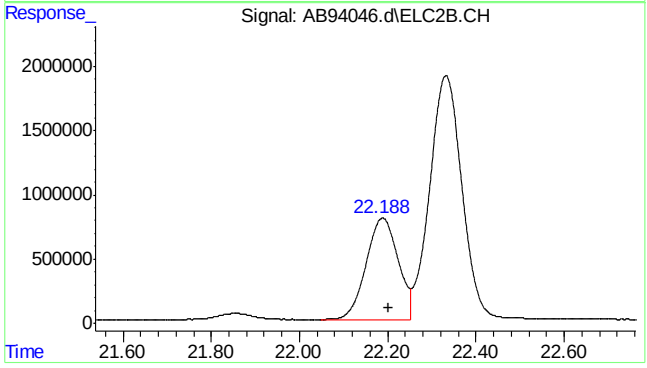
#17 toluene #2

R.T.: 19.091 min
Delta R.T.: -0.015 min
Response: 48017820
Conc: 42.00 ppb m



#18 2,3,4-trifluorotoluene #2

R.T.: 20.189 min
Delta R.T.: -0.014 min
Response: 22826029
Conc: 48.89 ppb m



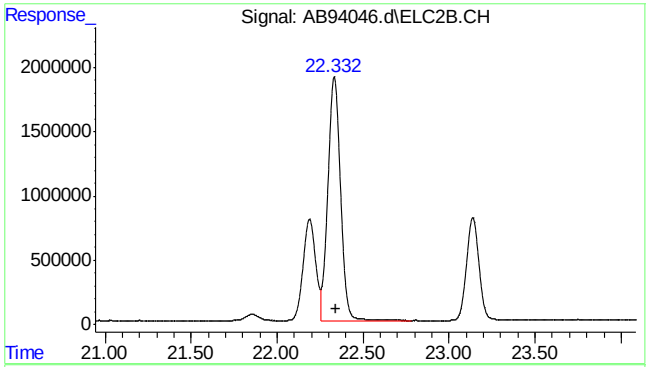
#19 ethylbenzene #2

R.T.: 22.188 min
Delta R.T.: -0.013 min
Response: 39788644
Conc: 42.98 ppb

7.4.2

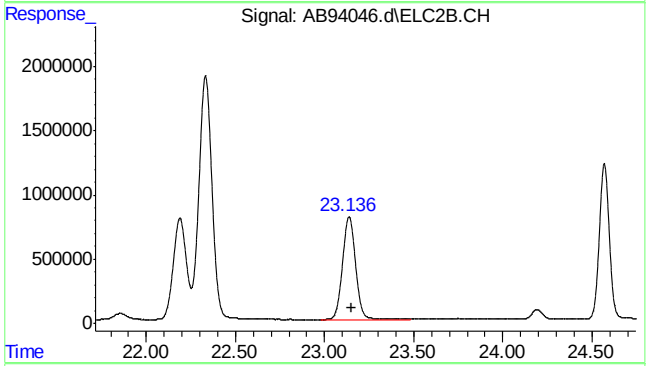
7

SGS ACCUTEST MC45816A



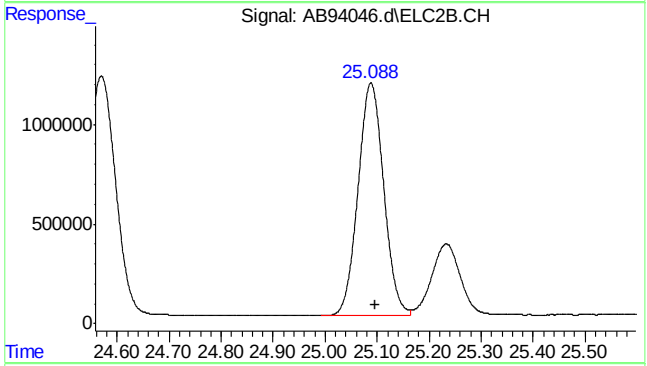
#20 m,p-xylene #2

R.T.: 22.332 min
Delta R.T.: -0.012 min
Response: 96549926
Conc: 91.02 ppb m



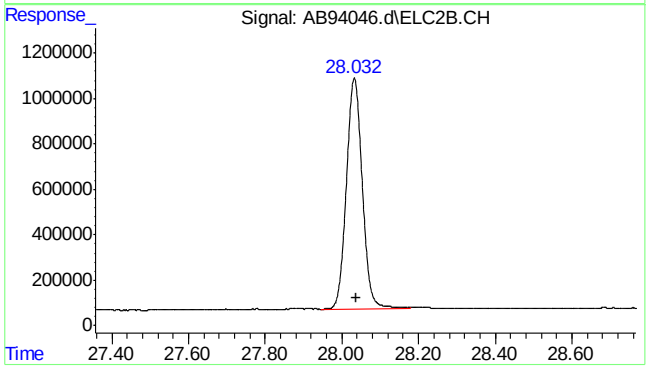
#21 o-xylene #2

R.T.: 23.138 min
Delta R.T.: -0.012 min
Response: 40709892
Conc: 43.58 ppb



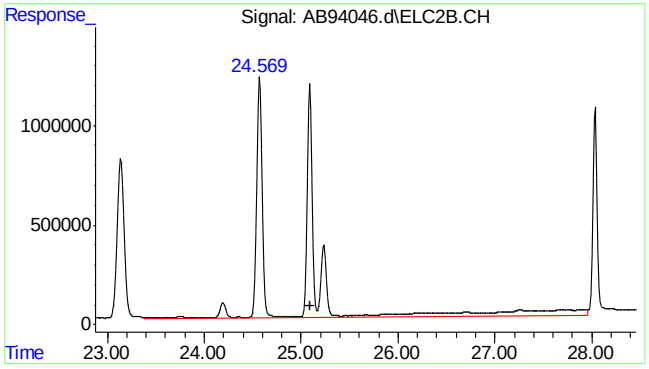
#23 1,2,4-trimethylbenzene #2

R.T.: 25.088 min
Delta R.T.: -0.008 min
Response: 40099179
Conc: 41.90 ppb



#24 naphthalene #2

R.T.: 28.032 min
Delta R.T.: -0.006 min
Response: 29379923
Conc: 40.64 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 133132672
Conc: 138.96 ppb m

7.4.2

7

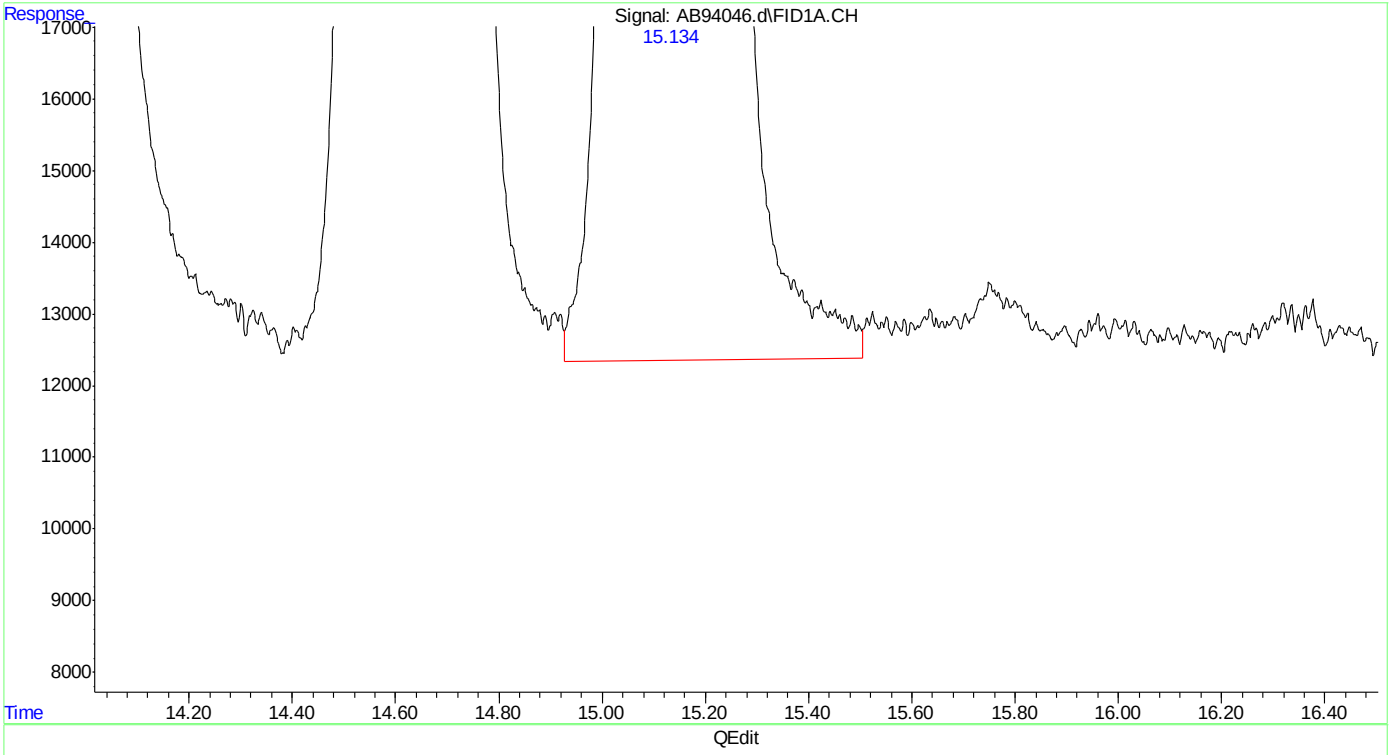
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
15.135min 54.717 ppb
response 24083289

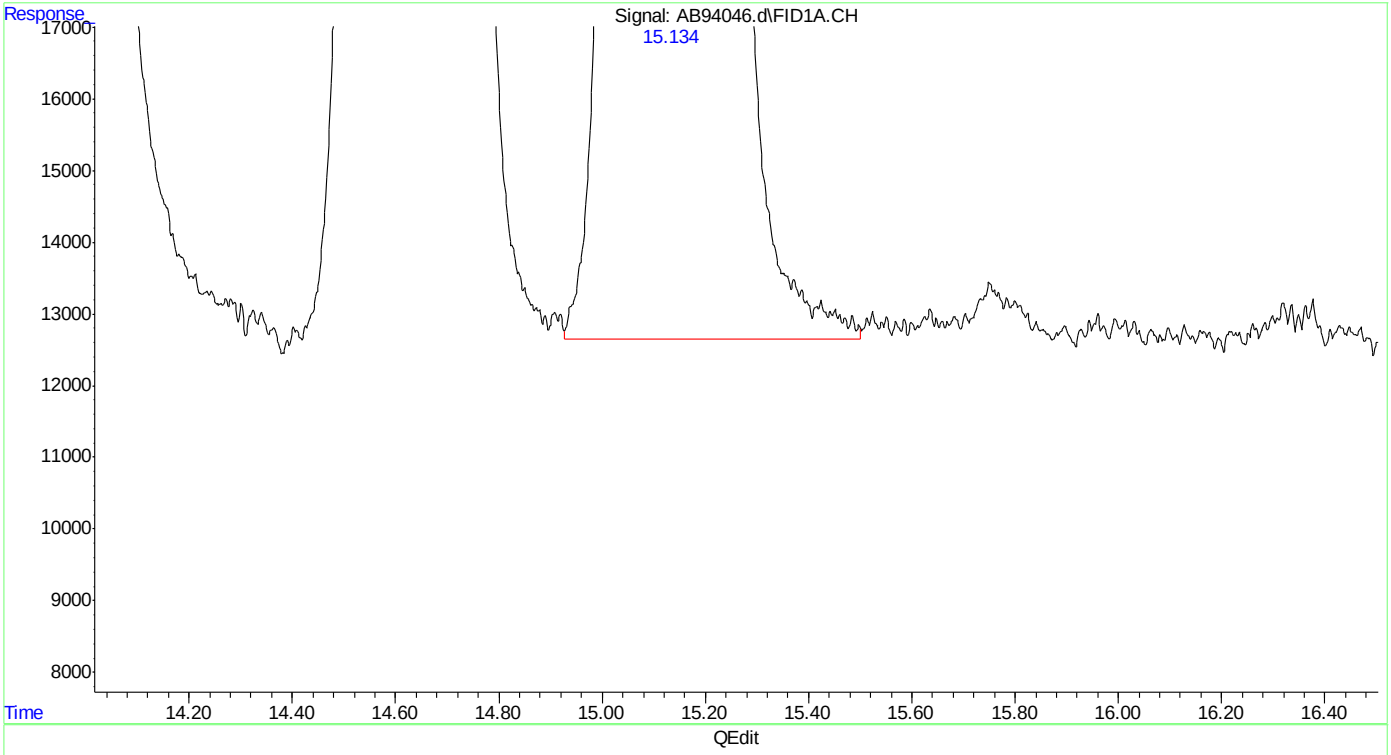
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
15.134min 54.486 ppb m
response 23981320

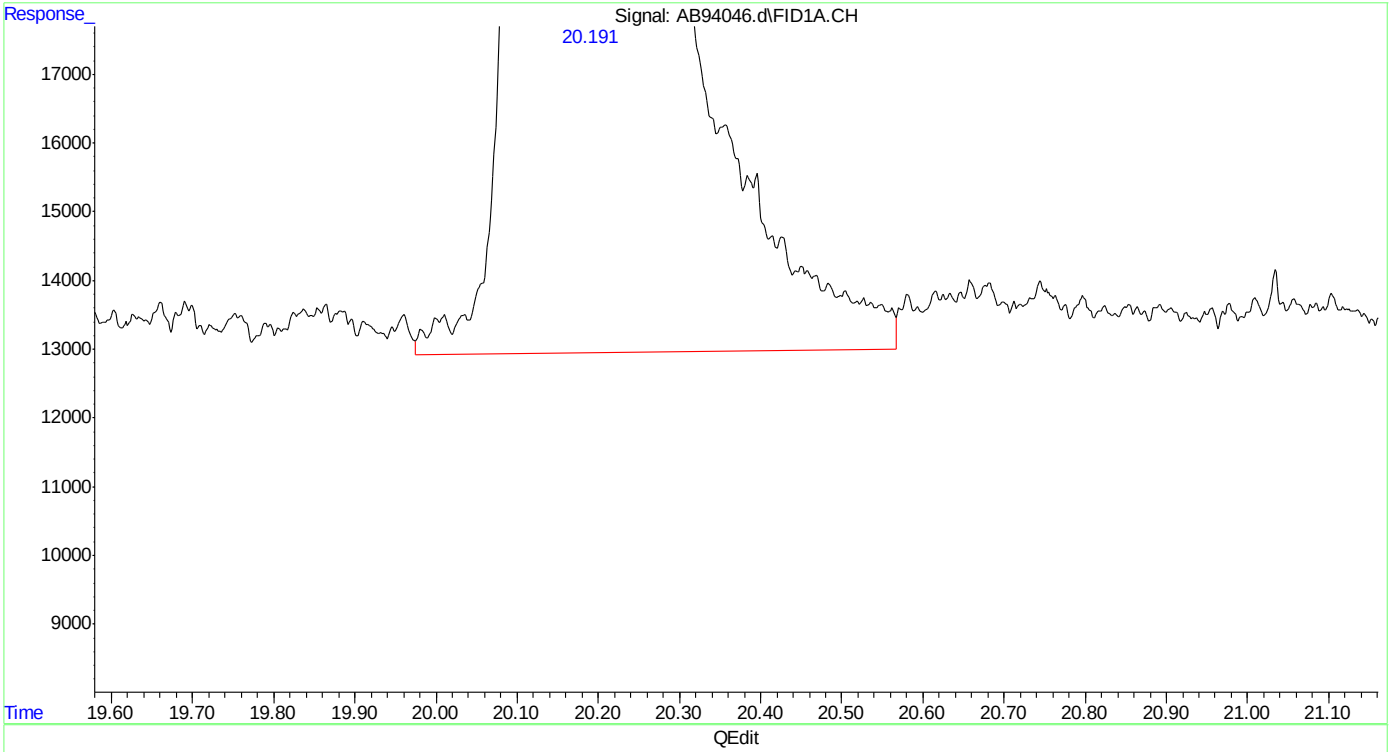
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) 2,3,4-trifluorotoluene (s)
20.191min 50.828 ppb
response 20837094

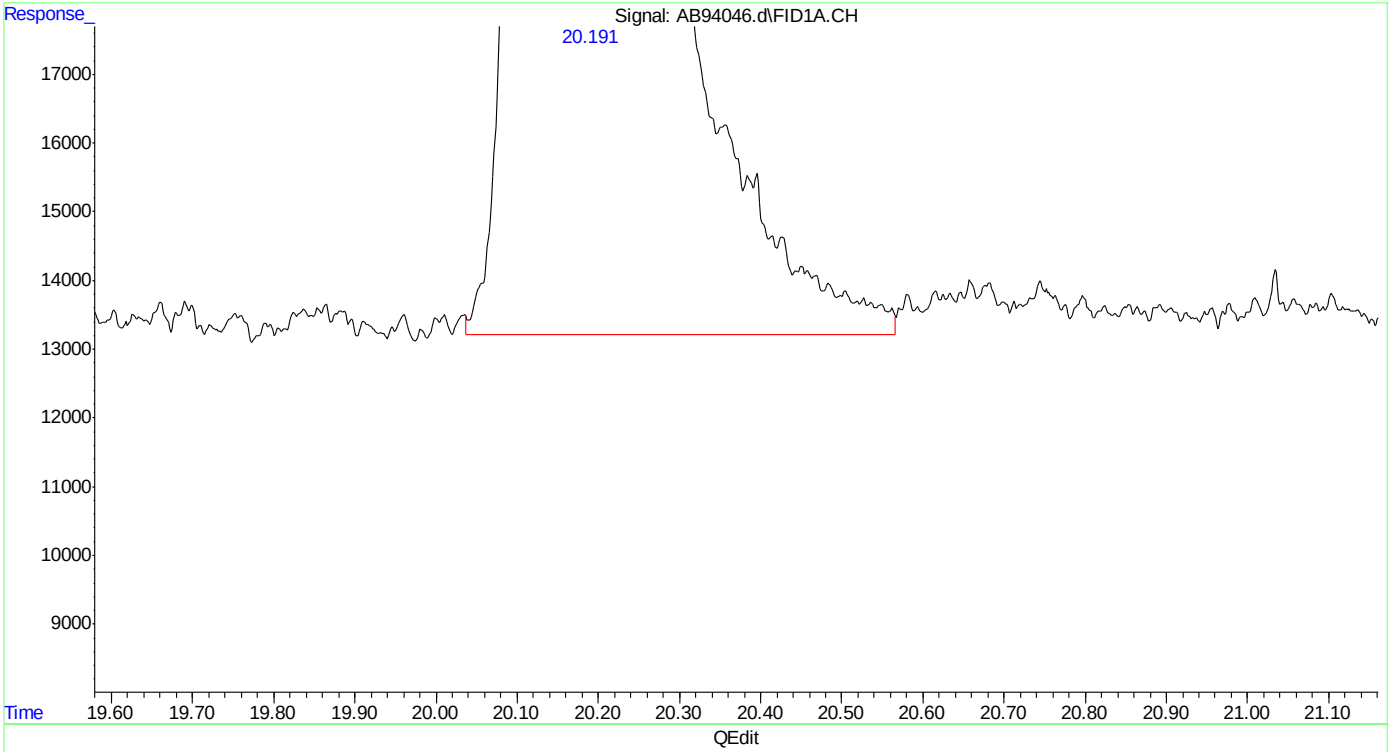
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:30:57 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 16:33:43
Operator  : tonyf
Sample    : mc45816-2msd,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(6) 2,3,4-trifluorotoluene (s)

20.191min 50.598 ppb m

response 20742924

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:31:06 2016

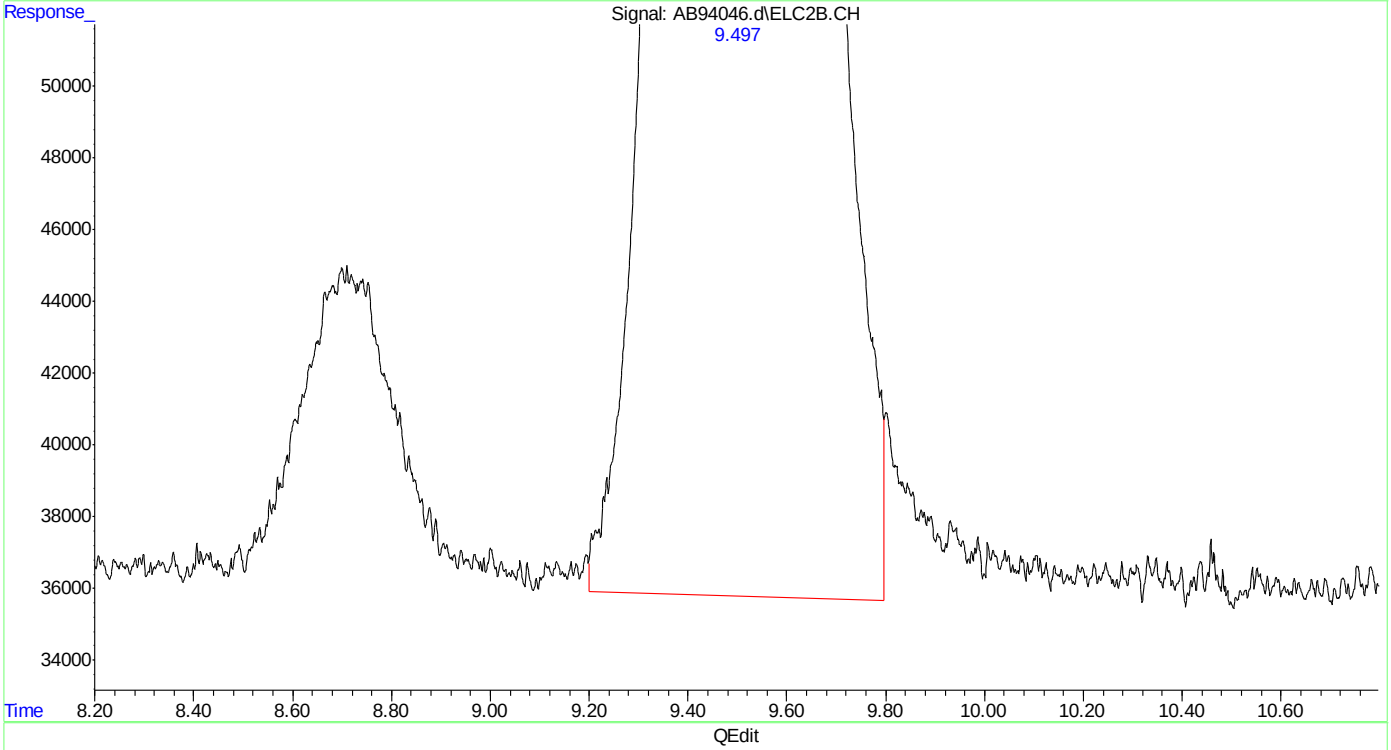
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 16:33:43
Operator  : tonyf
Sample    : mc45816-2msd,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.497min 46.242 ppb

response 23327033

(+) = Expected Retention Time

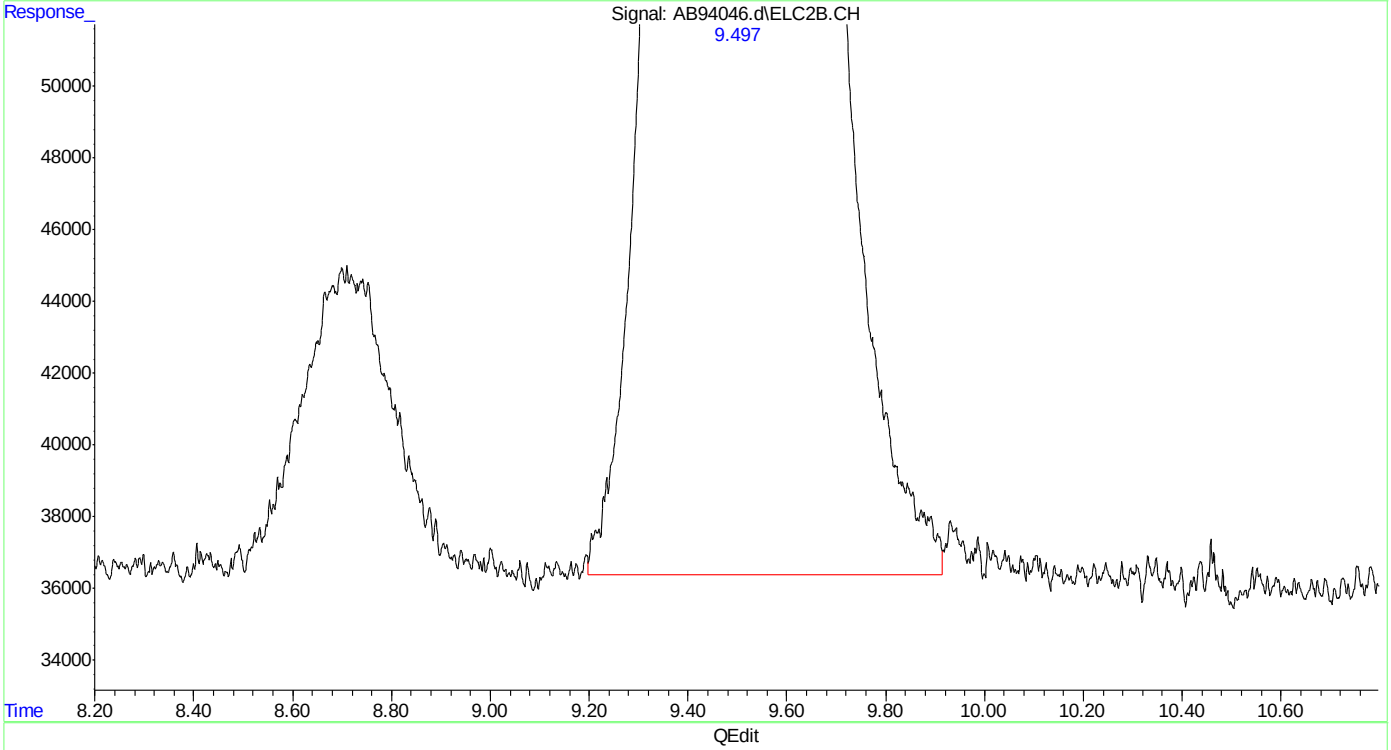
ab160512vph.M Fri May 13 17:31:18 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 16:33:43
Operator  : tonyf
Sample    : mc45816-2msd,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.496min 46.129 ppb m

response 23269682

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:31:27 2016

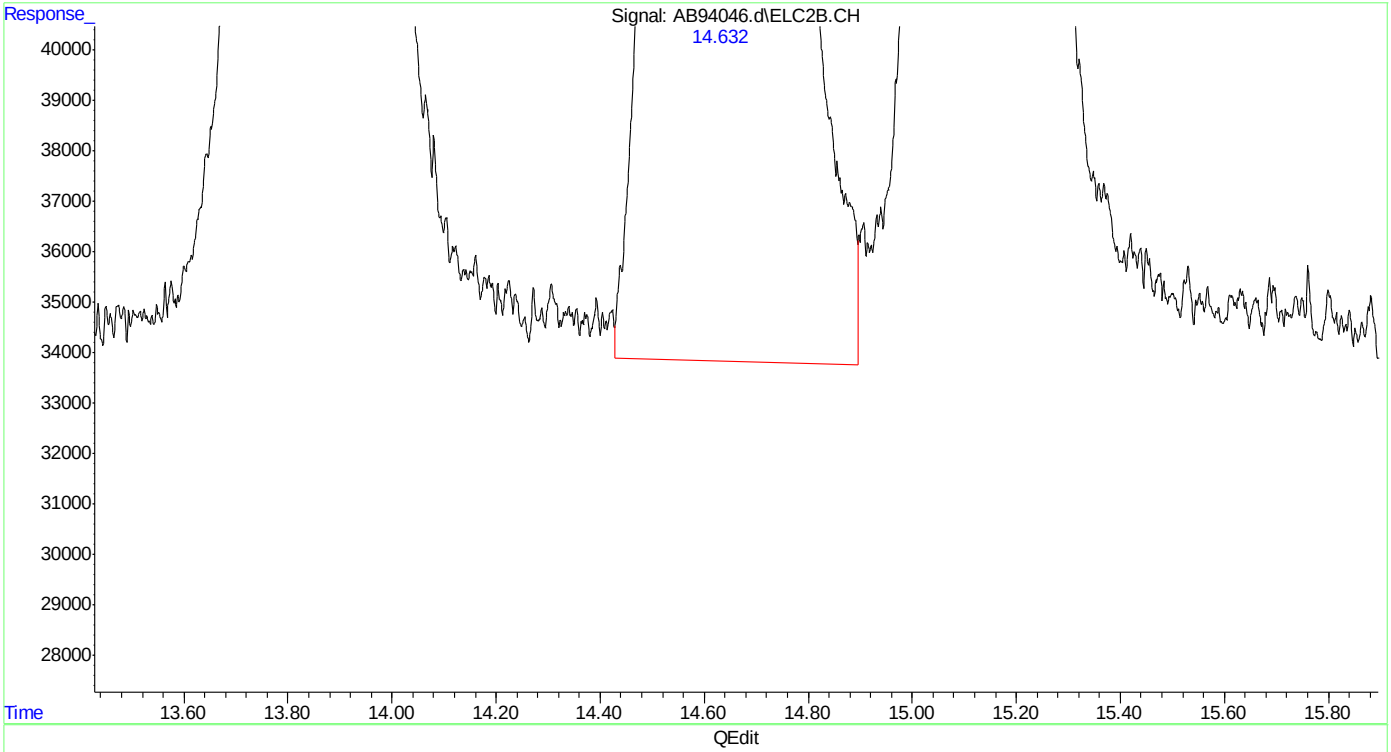
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
14.632min 42.292 ppb
response 55049910

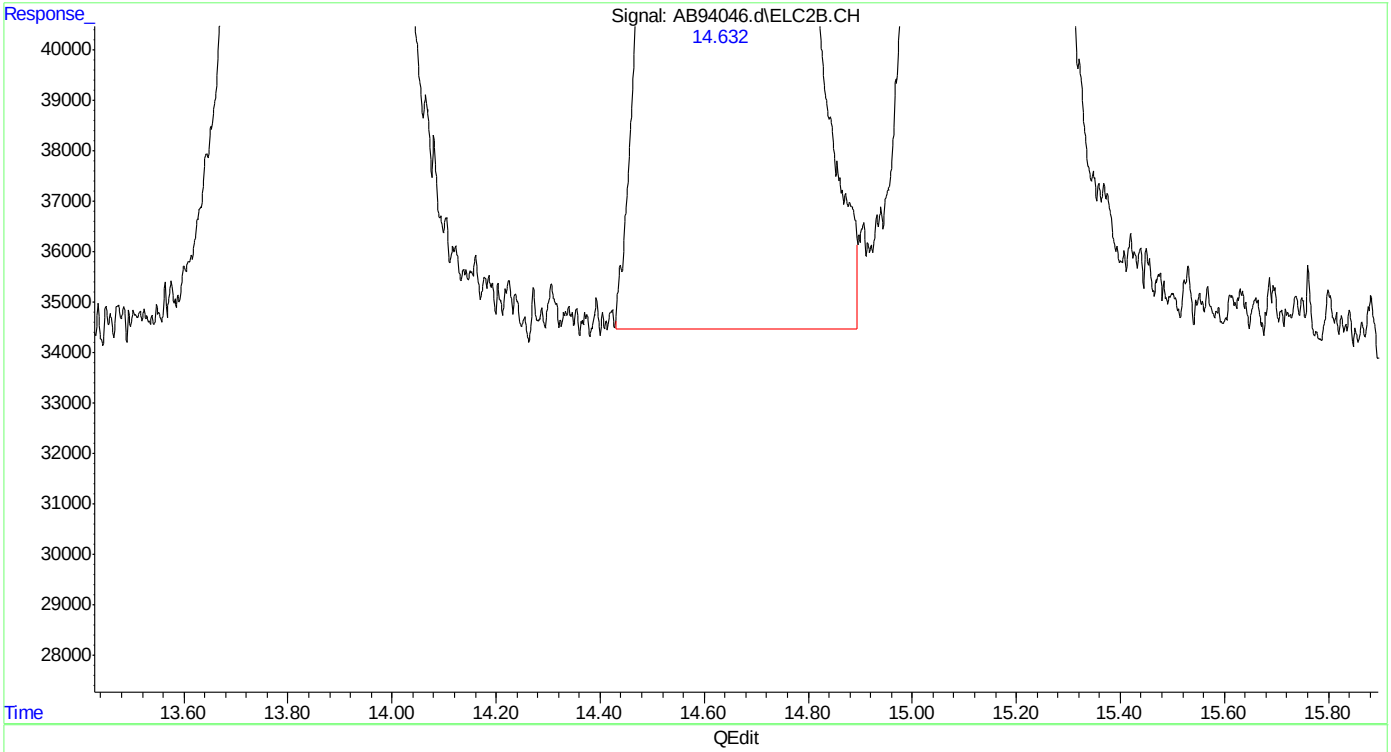
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:31:35 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
14.632min 42.154 ppb m
response 54870381

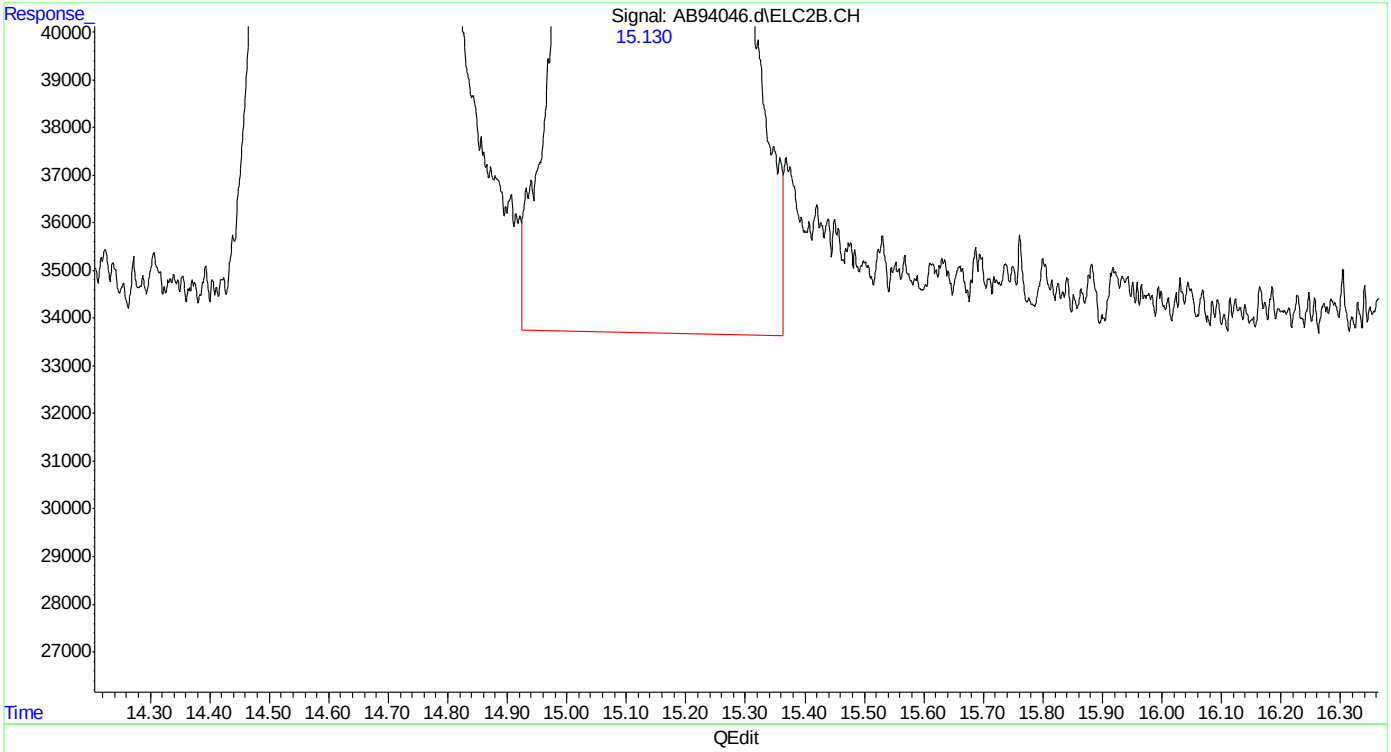
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:31:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) fluorobenzene #2 (s)
15.132min 54.323 ppb
response 45753521

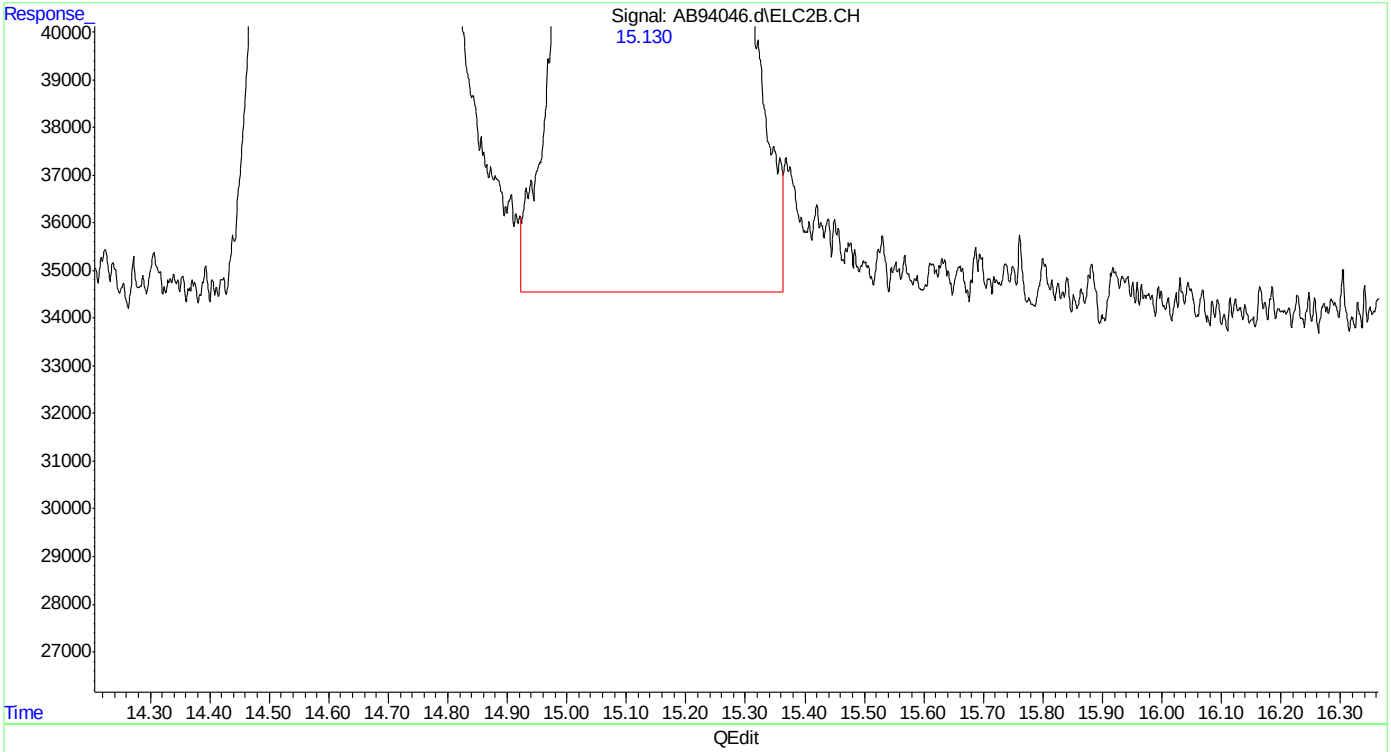
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) fluorobenzene #2 (s)
15.130min 54.053 ppb m
response 45526119

(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:31:53 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(17) toluene #2
19.090min 42.377 ppb
response 48448413

(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:31:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(17) toluene #2
19.091min 42.000 ppb m
response 48017820

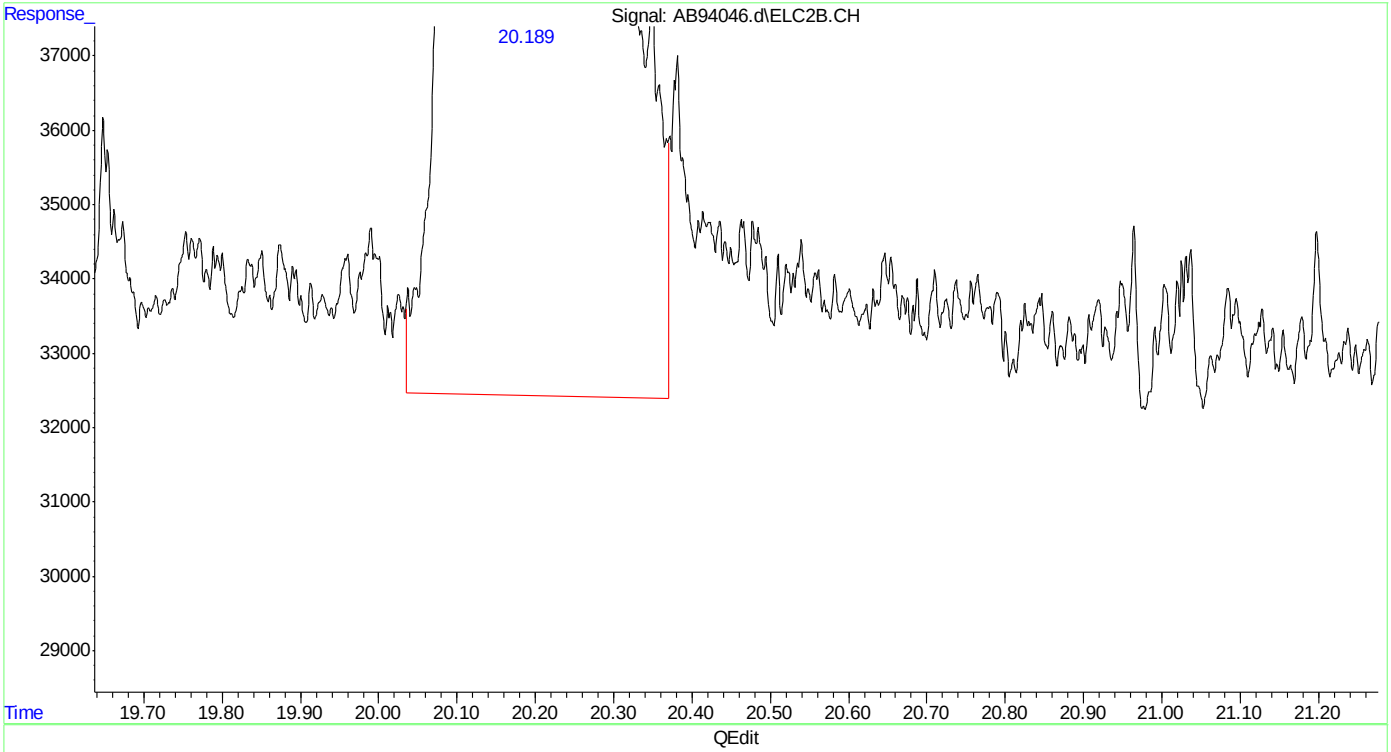
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:32:05 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
20.189min 49.328 ppb
response 23030241

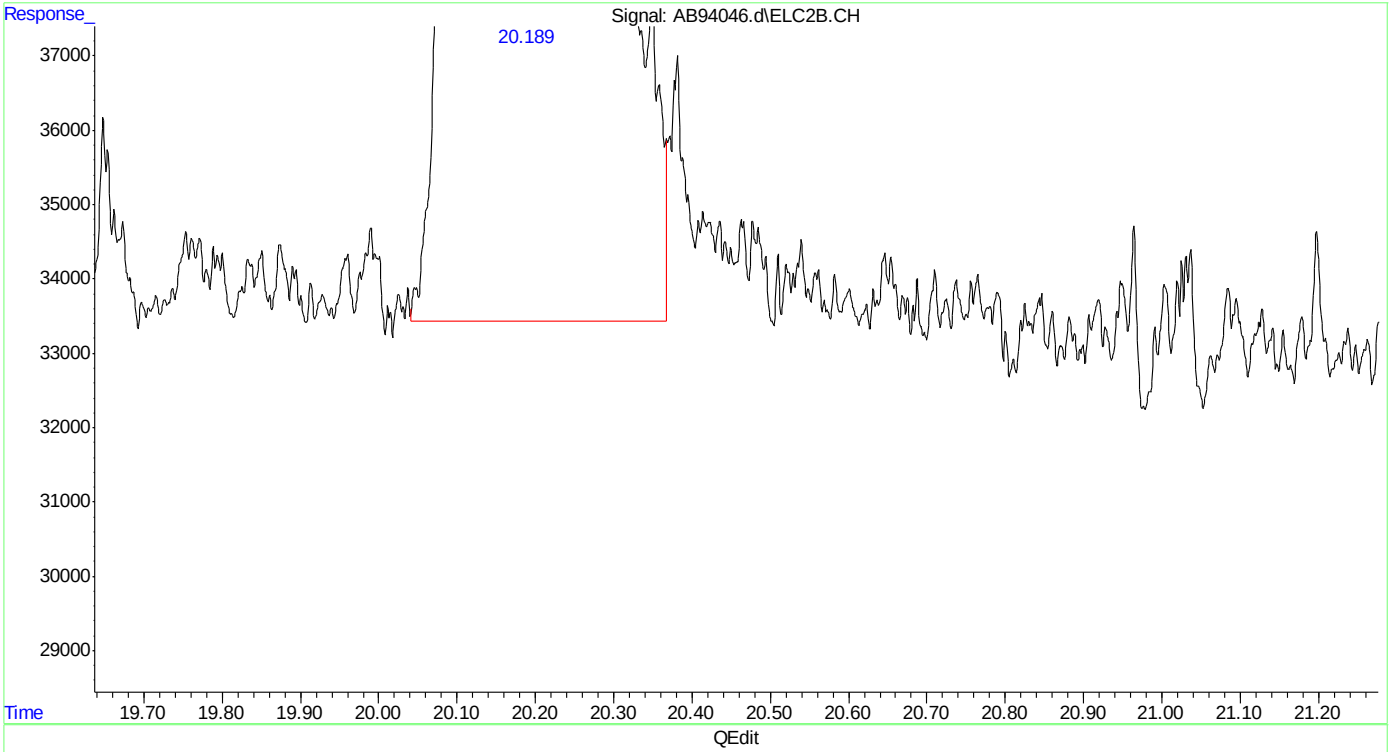
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:32:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
20.189min 48.891 ppb m
response 22826029

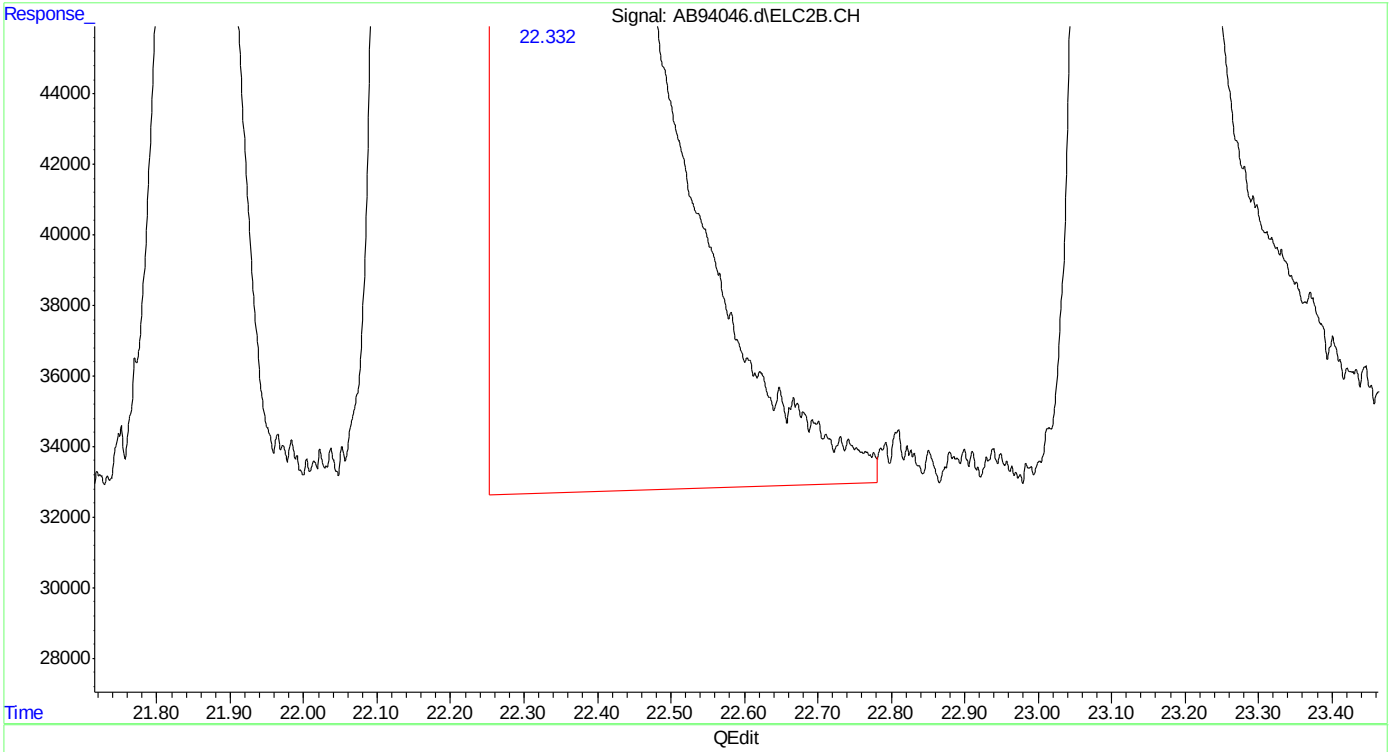
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:32:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
22.332min 91.468 ppb
response 97021271

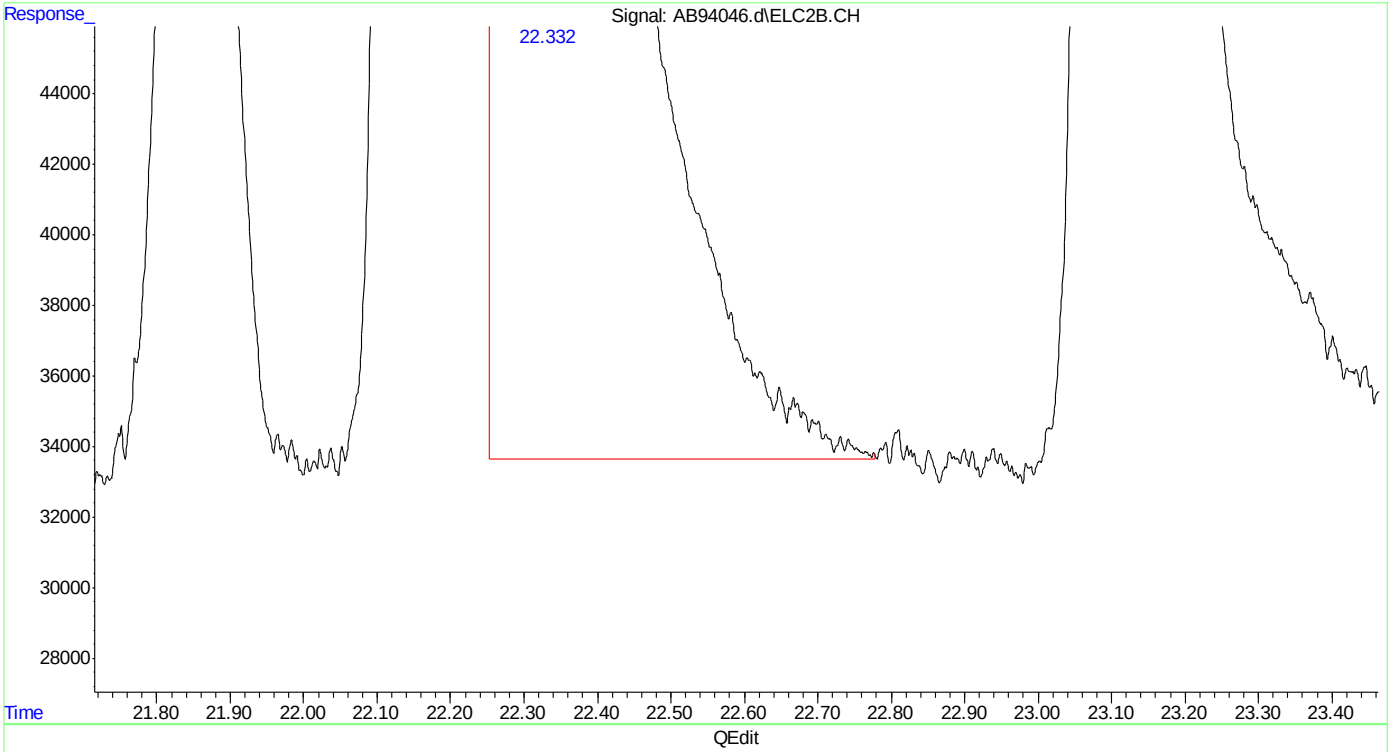
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:32:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 16:33:43
Operator : tonyf
Sample : mc45816-2msd,s,vmavph,16
Misc : gc26234,gab5168,14.36,,100,16,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
22.332min 91.023 ppb m
response 96549926

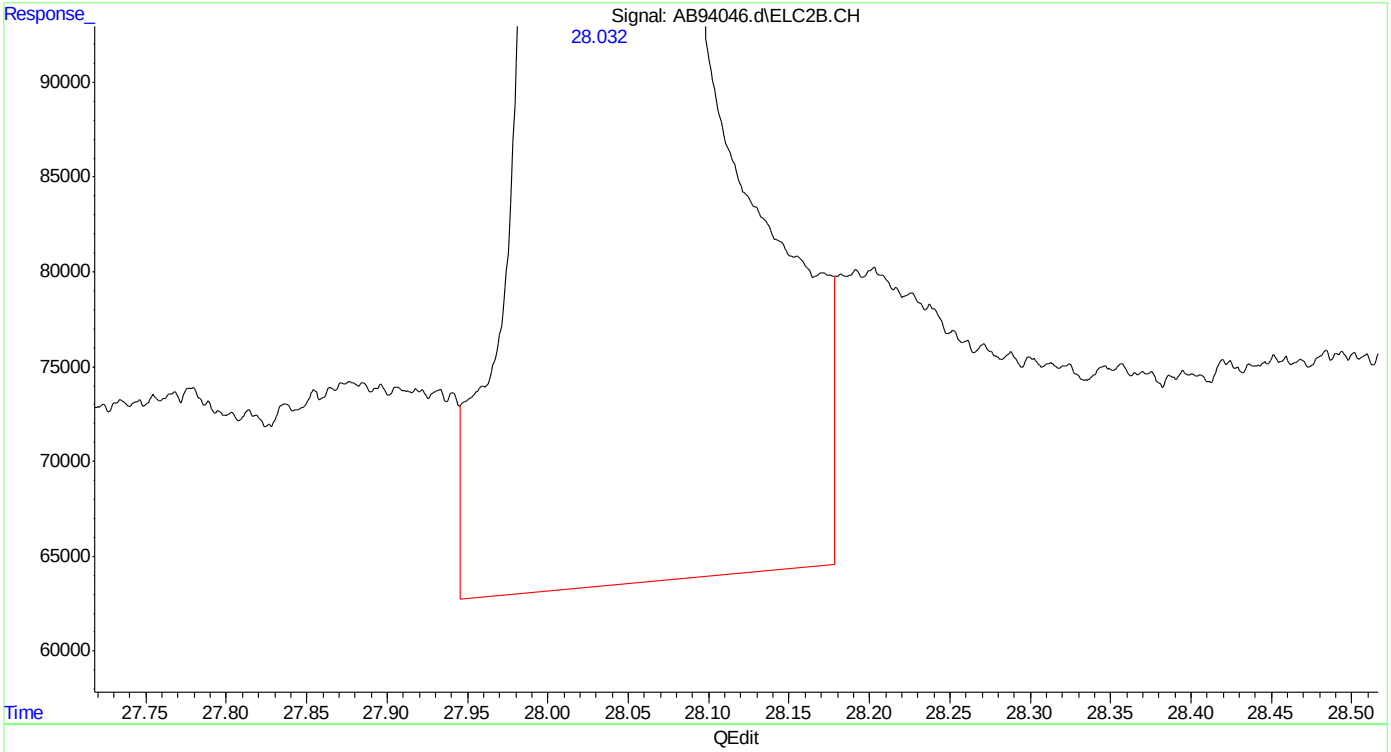
(+) = Expected Retention Time
ab160512vph.M Fri May 13 17:32:30 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 16:33:43
Operator  : tonyf
Sample    : mc45816-2msd,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.032min 42.528 ppb

response 30744218

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:32:40 2016

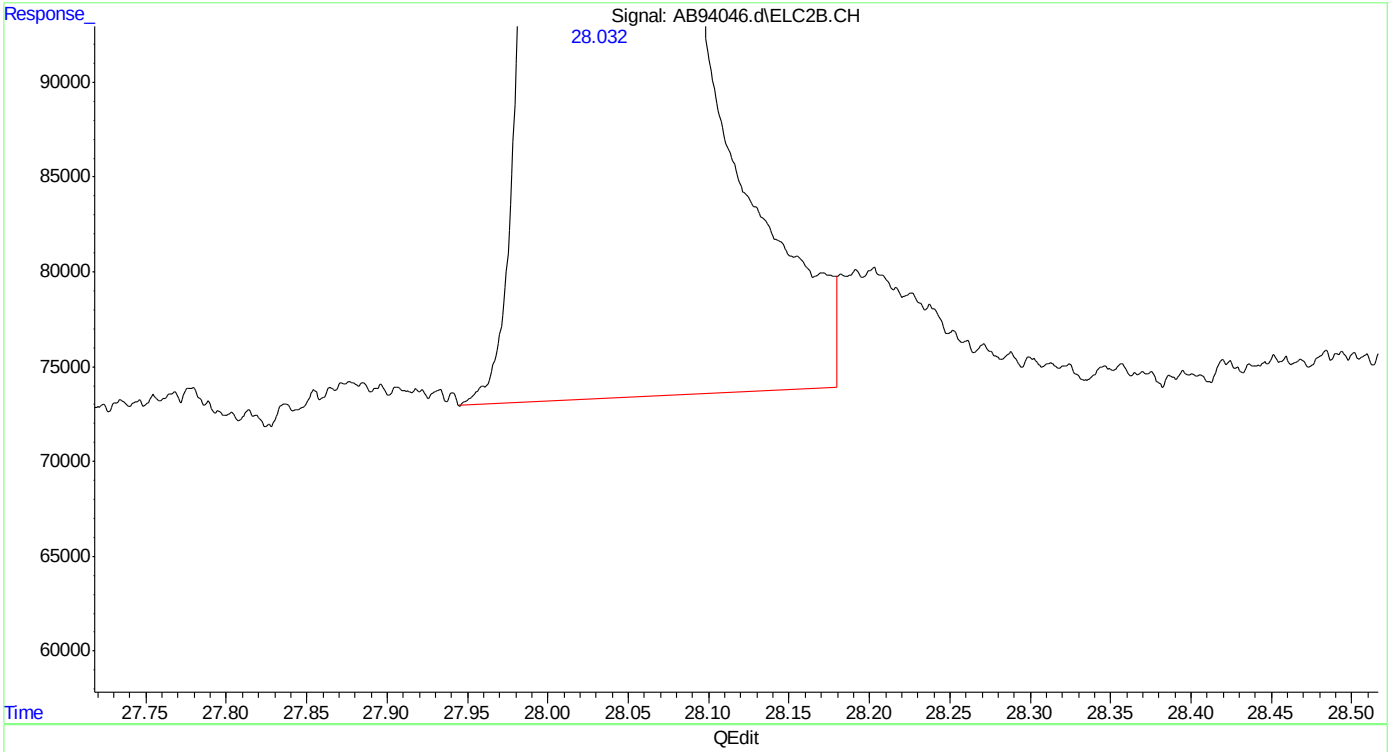
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94046.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 16:33:43
Operator  : tonyf
Sample    : mc45816-2msd,s,vmavph,16
Misc      : gc26234,gab5168,14.36,,100,16,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.032min 40.641 ppb m

response 29379923

(+) = Expected Retention Time

ab160512vph.M Fri May 13 17:32:47 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:19:17 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	15.167	442066892	1004.931	ppb	
Spiked Amount 50.000		Recovery	= 2009.86%		
9) s 2,3,4-trifluorotoluene	20.218	398476745	968.619	ppb	
Spiked Amount 50.000		Recovery	= 1937.24%		
25) s fluorobenzene #2	15.163	685273250	795.104	ppb	
Spiked Amount 50.000		Recovery	= 1590.21%		
27) s 2,3,4-trifluorotoluen...	20.209	406096099	855.885	ppb	
Spiked Amount 50.000		Recovery	= 1711.77%		
Target Compounds					
1) h rt5.5-7	6.370	331590120	905.515	ppb	m
2) h rt7/10	8.710	391421055	930.947	ppb	m
3) mtbe	9.521	194726915	905.818	ppb	
4) h rt10/13	13.890	251983903	564.259	ppb	m
5) benzene	14.665	546282882	999.751	ppb	
8) toluene	19.122	594091538	990.437	ppb	
11) h rt20/25	21.900	591293978	976.791	ppb	m
13) ethylbenzene	22.218	625723135	983.494	ppb	
14) m,p-xylene	22.365	1281304404	1935.957	ppb	
15) o-xylene	23.164	631440822	953.329	ppb	
16) h decane	24.230	587741810	944.921	ppb	
17) t 1,3,5-trimethylbenzene	24.593	630409215	885.040	ppb	
18) 1,2,4-trimethylbenzene	25.108	587315803	884.667	ppb	
19) h butylcyclohexane	25.263	562827500	840.829	ppb	m
20) naphthalene	28.047	210531385	576.892	ppb	
23) mtbe #2	9.509	458231518	898.088	ppb	m
24) benzene #2	14.663	1012253857	756.641	ppb	
26) toluene #2	19.120	865343050	734.571	ppb	
28) ethylbenzene #2	22.213	713837963	749.552	ppb	
29) m,p-xylene #2	22.363	1438627603	1303.821	ppb	
30) o-xylene #2	23.160	684382724	708.941	ppb	
31) t 1,3,5-trimethylbenzen...	24.589	848158738	621.906	ppb	
32) 1,2,4-trimethylbenzen...	25.103	633290350	634.875	ppb	
33) naphthalene #2	28.039	370568666	481.118	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	633177055	634.031	ppb	m

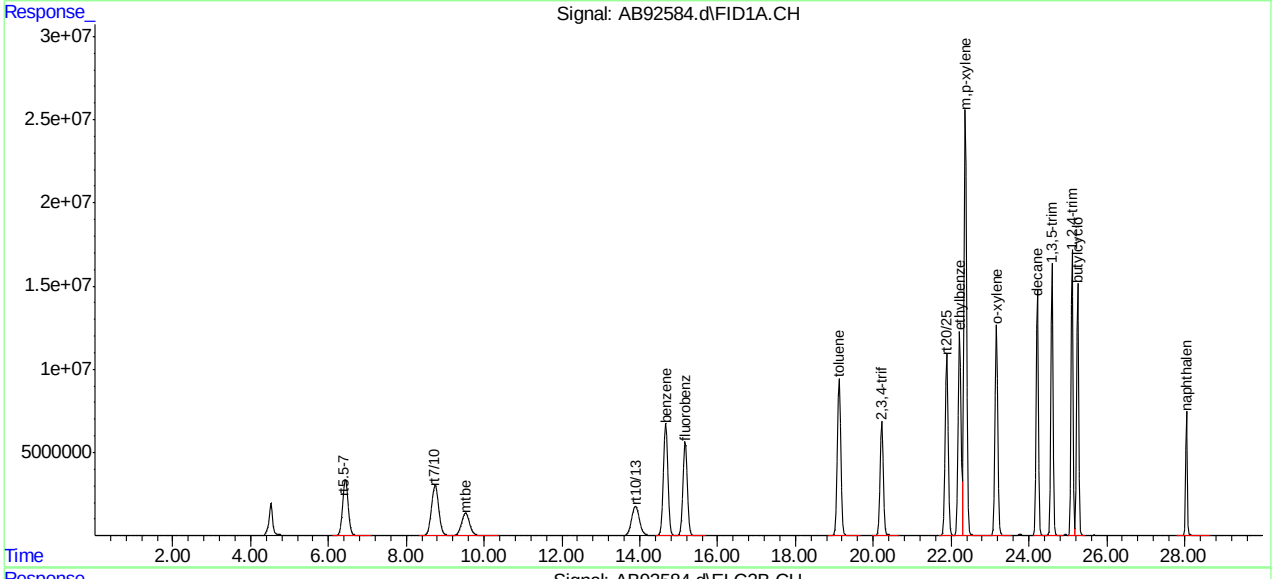
(f)=RT Delta > 1/2 Window (m)=manual int.

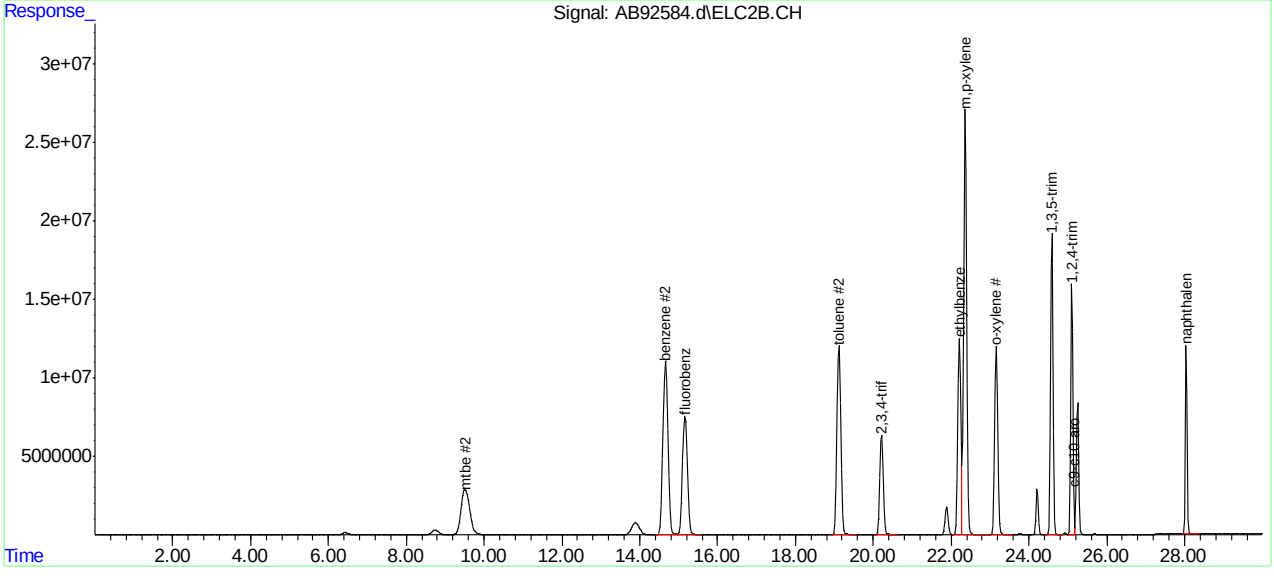
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

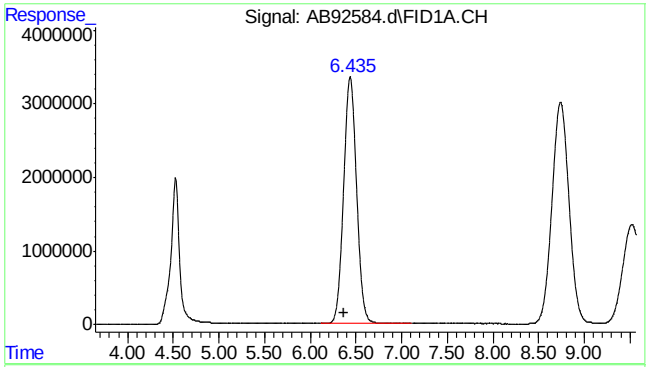
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:19:17 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



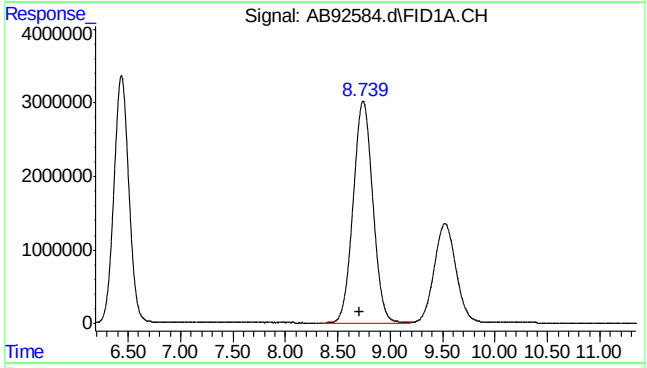


SGS ACCUTEST MC45816A



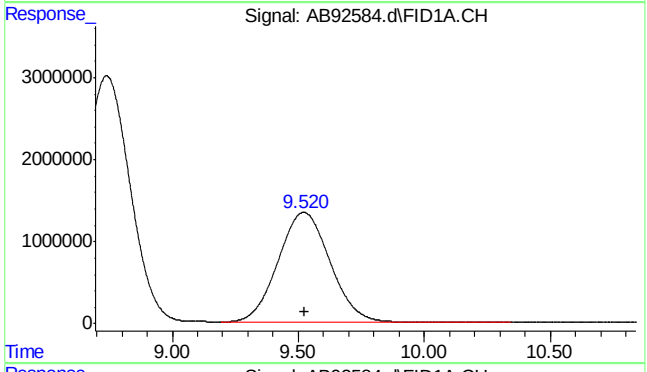
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 331590120
Conc: 905.51 ppb m



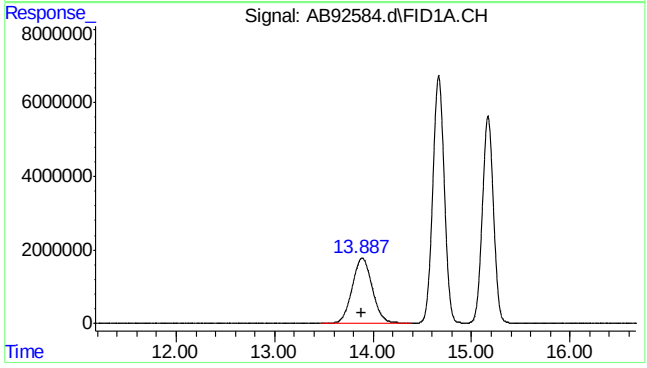
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 391421055
Conc: 930.95 ppb m



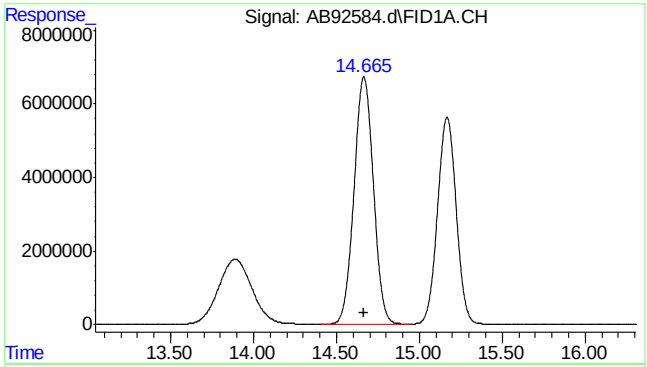
#3 mtbe

R.T.: 9.521 min
Delta R.T.: -0.002 min
Response: 194726915
Conc: 905.82 ppb



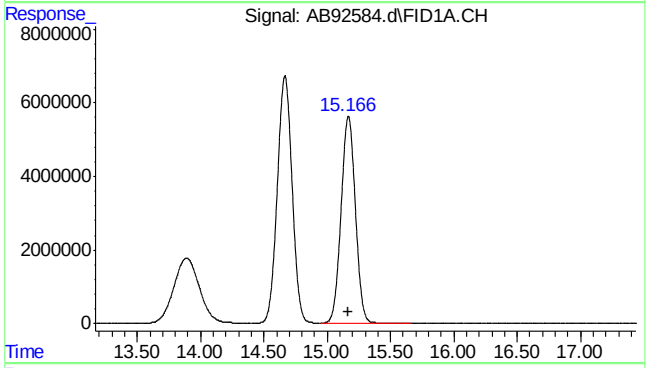
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 251983903
Conc: 564.26 ppb m



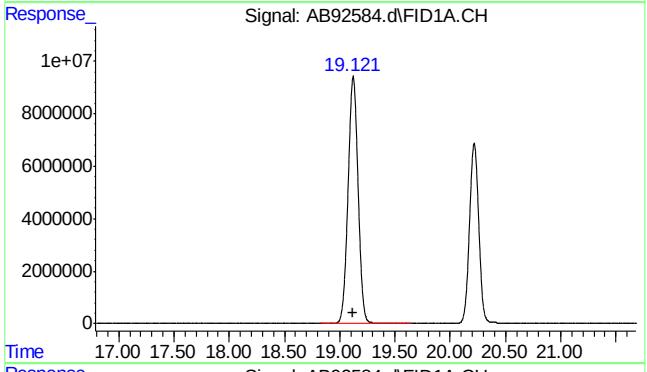
#5 benzene

R.T.: 14.665 min
Delta R.T.: 0.000 min
Response: 546282882
Conc: 999.75 ppb



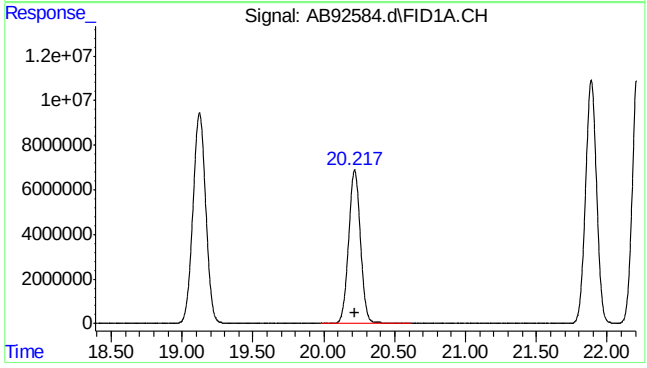
#6 fluorobenzene

R.T.: 15.167 min
Delta R.T.: 0.000 min
Response: 442066892
Conc: 1004.93 ppb



#8 toluene

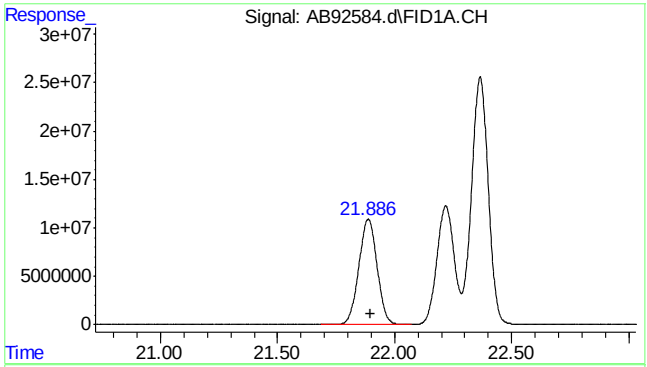
R.T.: 19.122 min
Delta R.T.: 0.000 min
Response: 594091538
Conc: 990.44 ppb



#9 2,3,4-trifluorotoluene

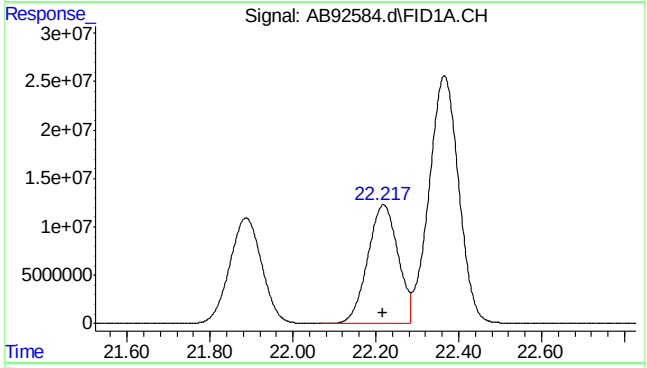
R.T.: 20.218 min
Delta R.T.: 0.000 min
Response: 398476745
Conc: 968.62 ppb

SGS ACCUTEST MC45816A



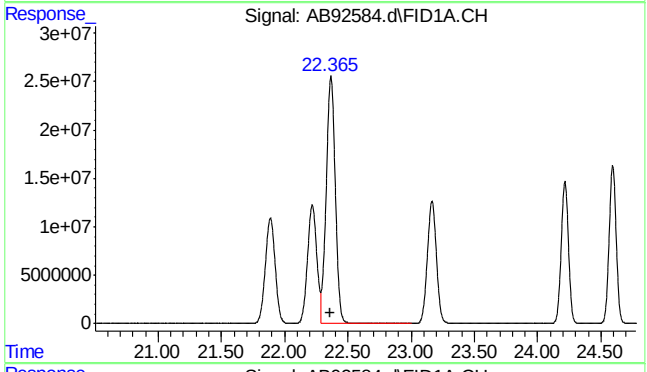
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 591293978
Conc: 976.79 ppb m



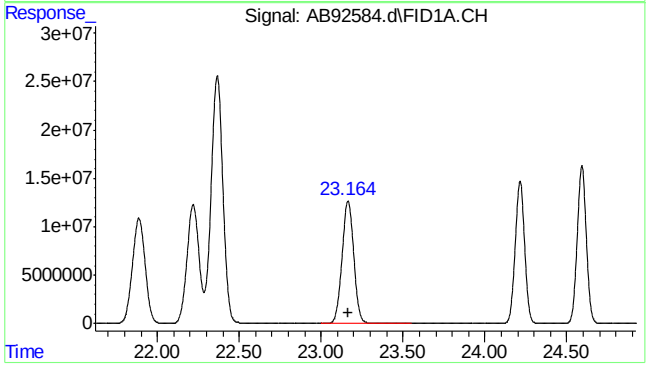
#13 ethylbenzene

R.T.: 22.218 min
Delta R.T.: 0.002 min
Response: 625723135
Conc: 983.49 ppb



#14 m,p-xylene

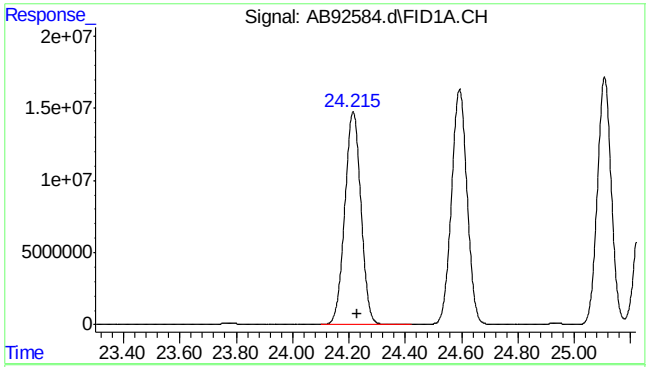
R.T.: 22.365 min
Delta R.T.: 0.004 min
Response: 1281304404
Conc: 1935.96 ppb



#15 o-xylene

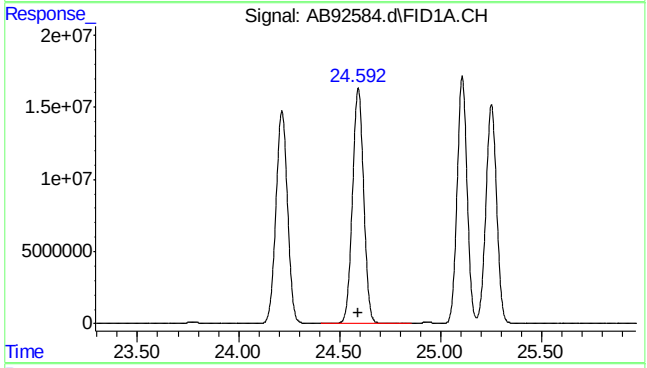
R.T.: 23.164 min
Delta R.T.: 0.000 min
Response: 631440822
Conc: 953.33 ppb

SGS ACCUTEST MC45816A



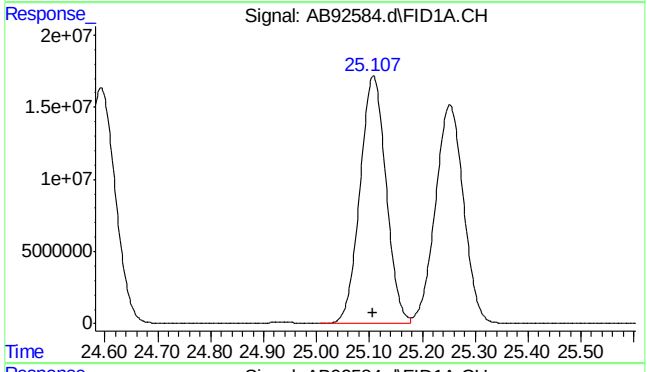
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 587741810
Conc: 944.92 ppb



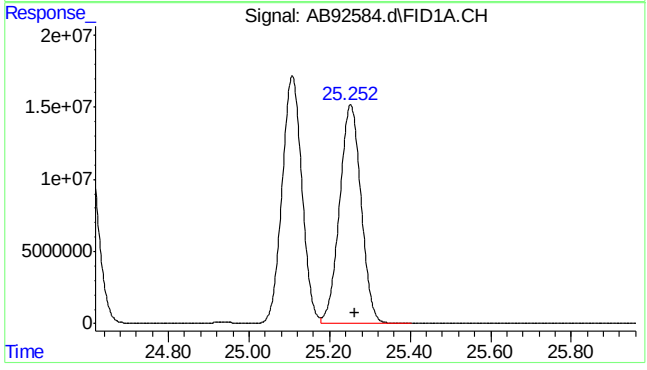
#17 1,3,5-trimethylbenzene

R.T.: 24.593 min
Delta R.T.: 0.002 min
Response: 630409215
Conc: 885.04 ppb



#18 1,2,4-trimethylbenzene

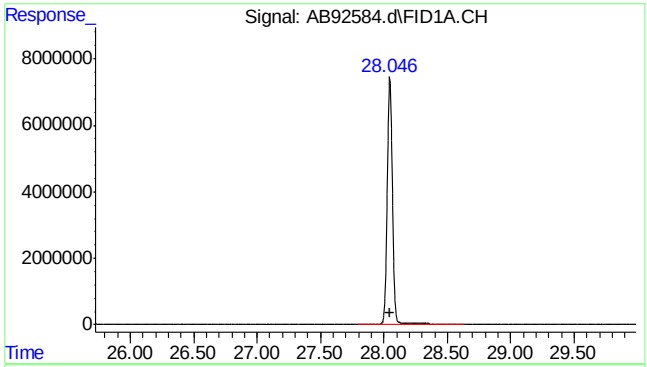
R.T.: 25.108 min
Delta R.T.: 0.000 min
Response: 587315803
Conc: 884.67 ppb



#19 butylcyclohexane

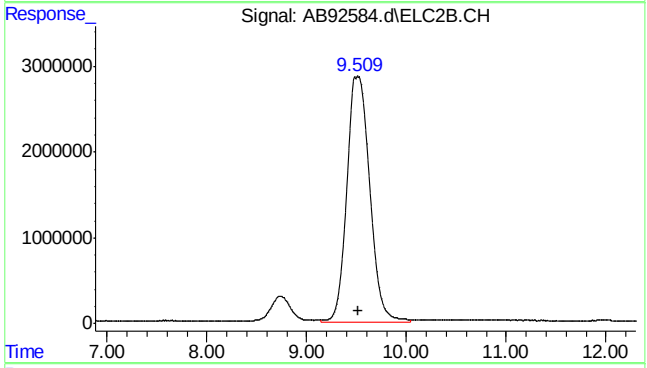
R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 562827500
Conc: 840.83 ppb m

SGS ACCUTEST MC45816A



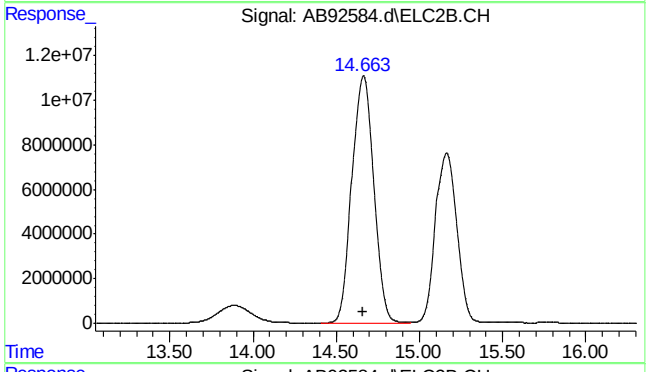
#20 naphthalene

R.T.: 28.047 min
Delta R.T.: 0.000 min
Response: 210531385
Conc: 576.89 ppb



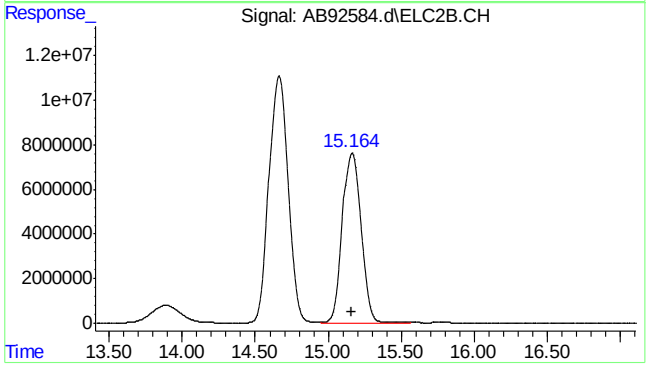
#23 mtbe #2

R.T.: 9.509 min
Delta R.T.: -0.009 min
Response: 458231518
Conc: 898.09 ppb m



#24 benzene #2

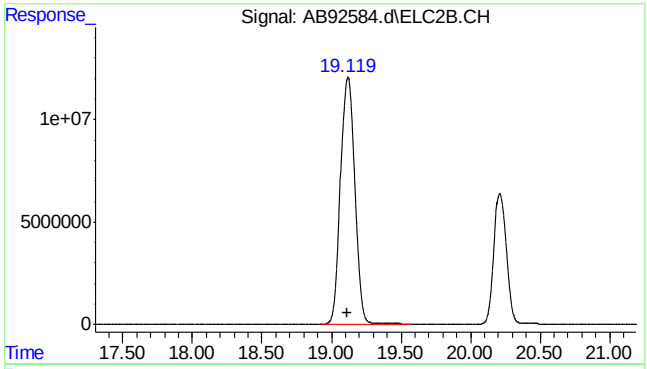
R.T.: 14.663 min
Delta R.T.: 0.005 min
Response: 1012253857
Conc: 756.64 ppb



#25 fluorobenzene #2

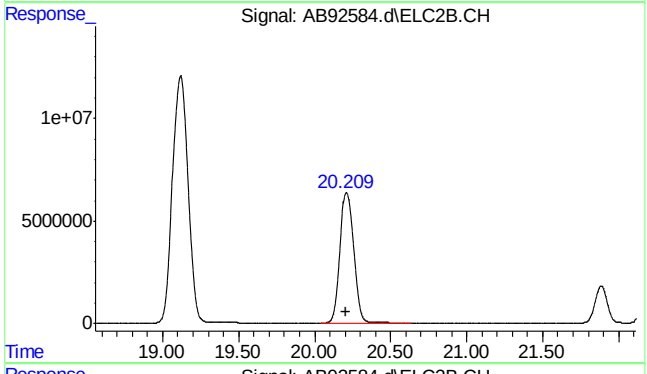
R.T.: 15.163 min
Delta R.T.: 0.005 min
Response: 685273250
Conc: 795.10 ppb

SGS ACCUTEST MC45816A



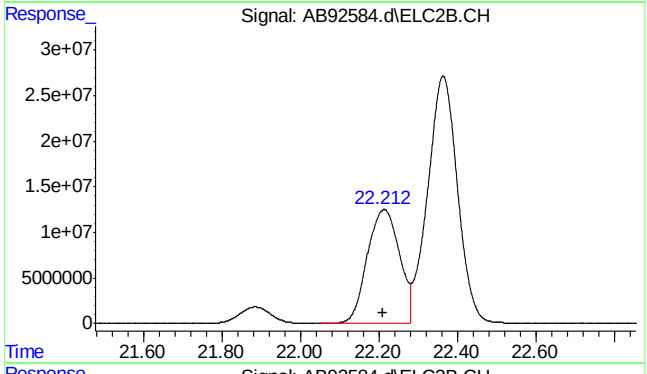
#26 toluene #2

R.T.: 19.120 min
Delta R.T.: 0.004 min
Response: 865343050
Conc: 734.57 ppb



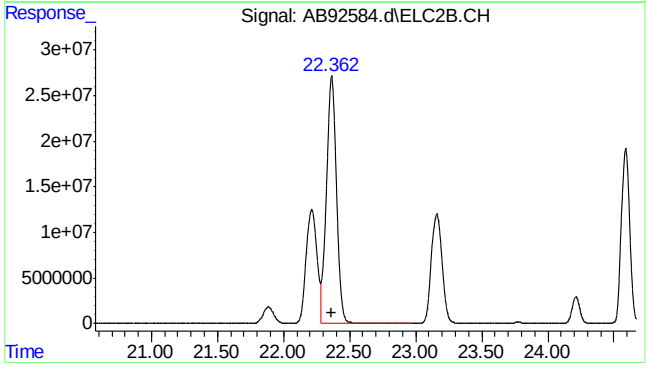
#27 2,3,4-trifluorotoluene #2

R.T.: 20.209 min
Delta R.T.: -0.001 min
Response: 406096099
Conc: 855.88 ppb



#28 ethylbenzene #2

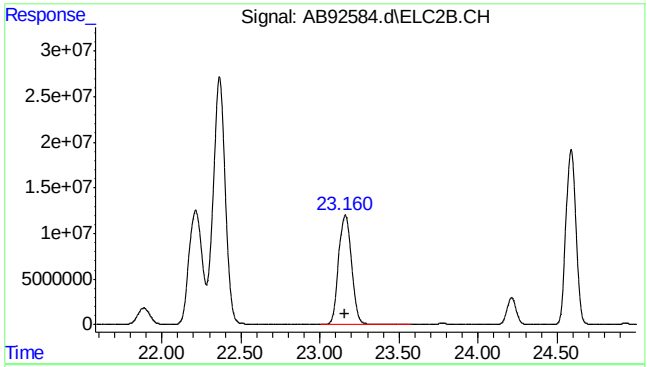
R.T.: 22.213 min
Delta R.T.: 0.003 min
Response: 713837963
Conc: 749.55 ppb



#29 m,p-xylene #2

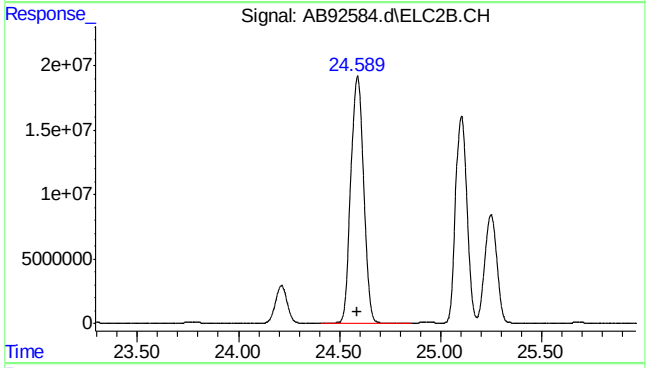
R.T.: 22.363 min
Delta R.T.: 0.004 min
Response: 1438627603
Conc: 1303.82 ppb

SGS ACCUTEST MC45816A



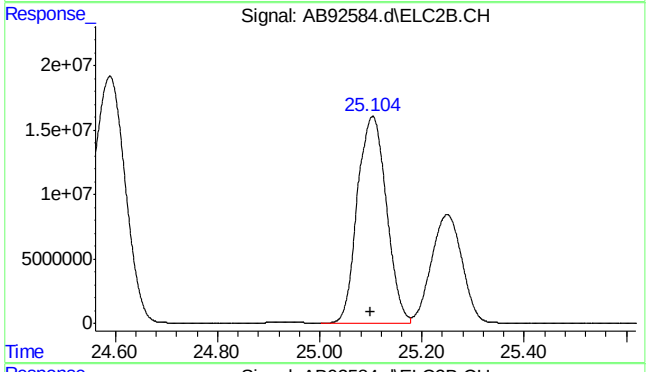
#30 o-xylene #2

R.T.: 23.160 min
Delta R.T.: 0.004 min
Response: 684382724
Conc: 708.94 ppb



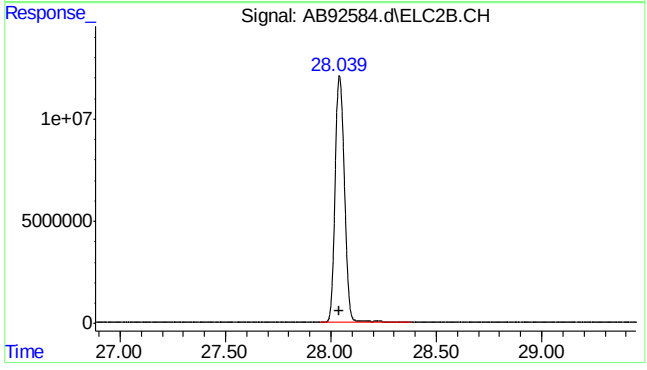
#31 1,3,5-trimethylbenzene #2

R.T.: 24.589 min
Delta R.T.: 0.004 min
Response: 848158738
Conc: 621.91 ppb



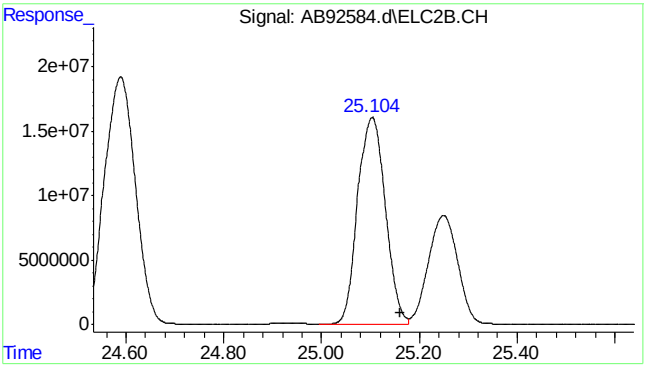
#32 1,2,4-trimethylbenzene #2

R.T.: 25.103 min
Delta R.T.: 0.004 min
Response: 633290350
Conc: 634.87 ppb



#33 naphthalene #2

R.T.: 28.039 min
Delta R.T.: -0.003 min
Response: 370568666
Conc: 481.12 ppb m




```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response: 633177055
      Conc: 634.03 ppb m
```

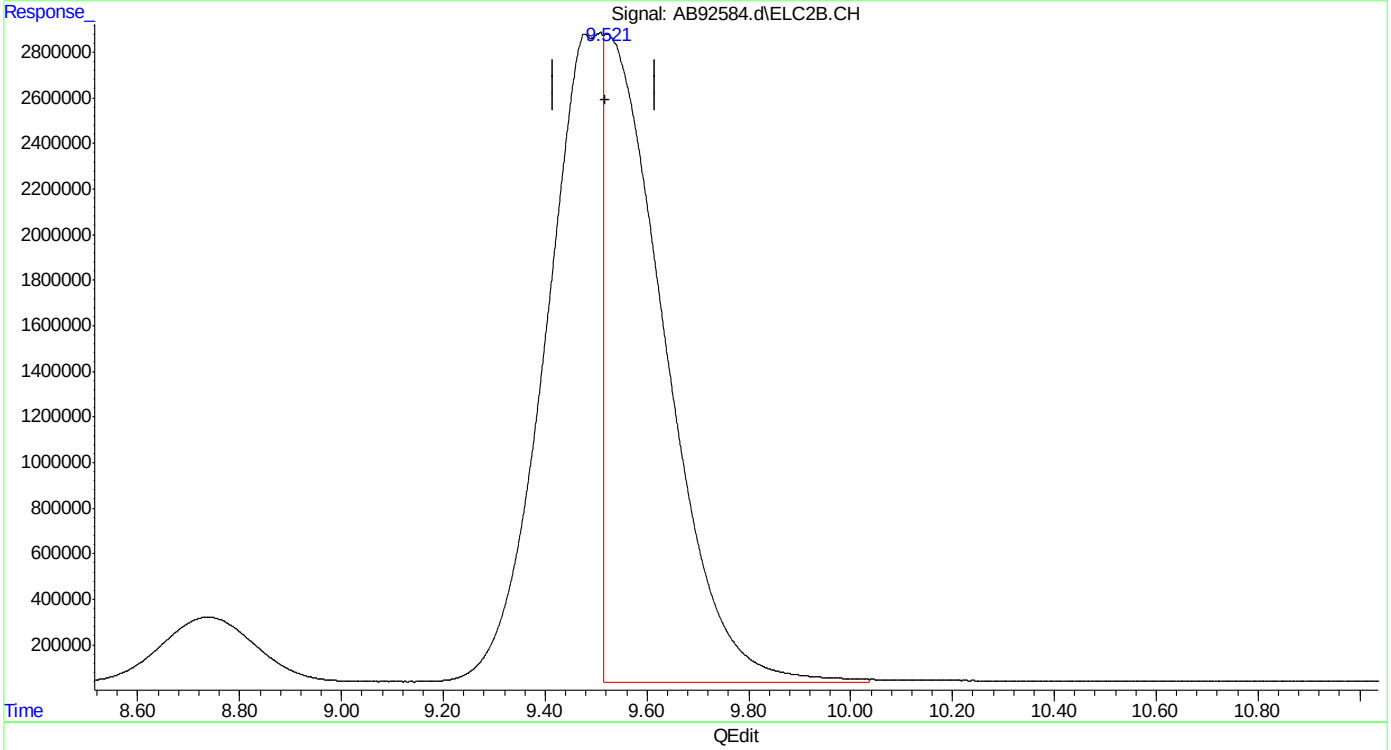

SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:45 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.522min 457.285 ppb
response 233320397

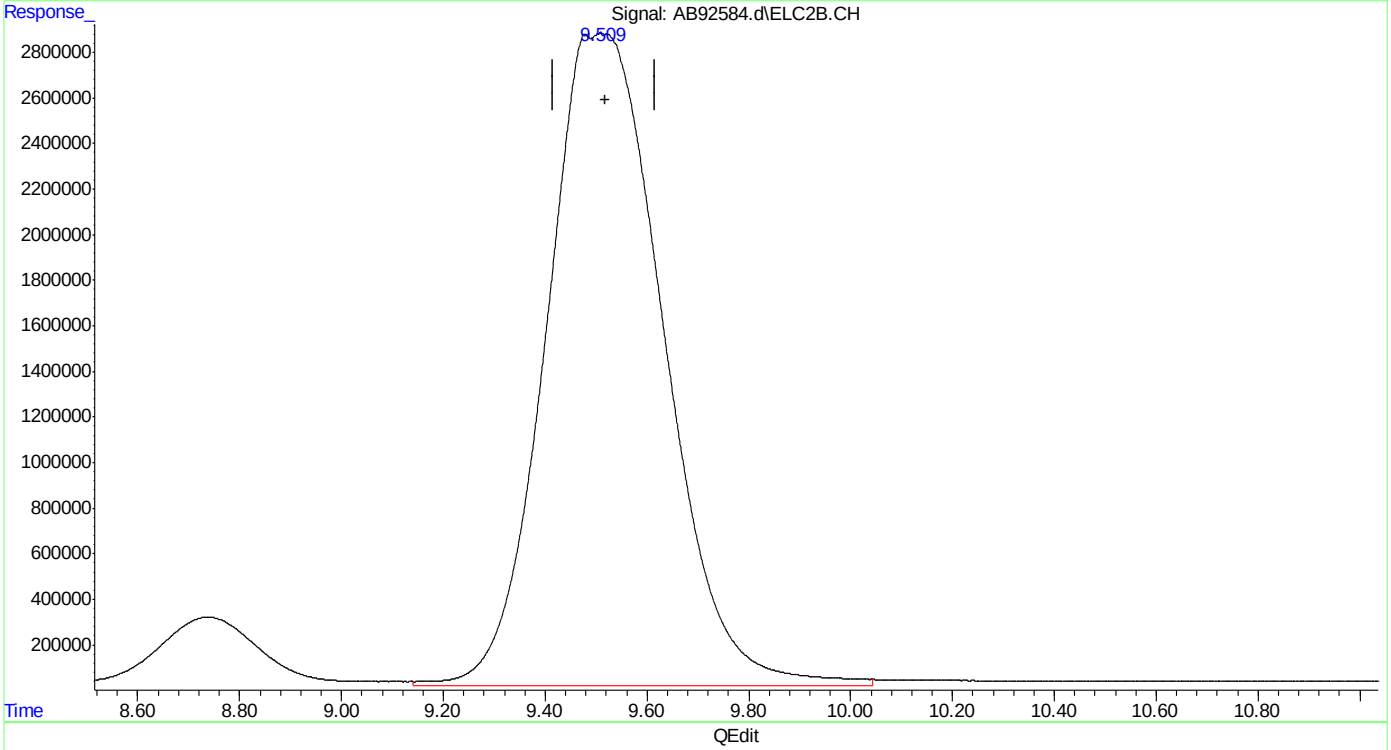
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:45 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.509min 898.088 ppb m
response 458231518

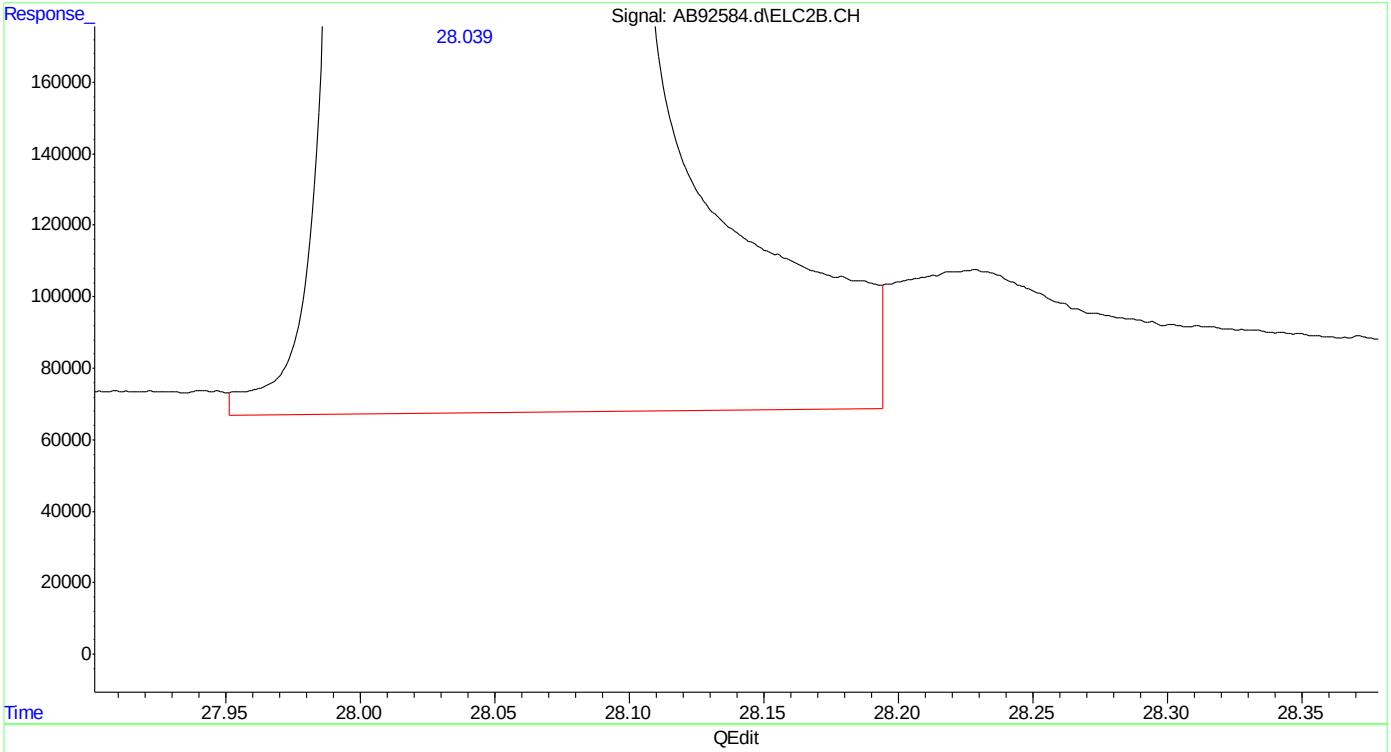
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:45 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.041min 479.998 ppb
response 369706145

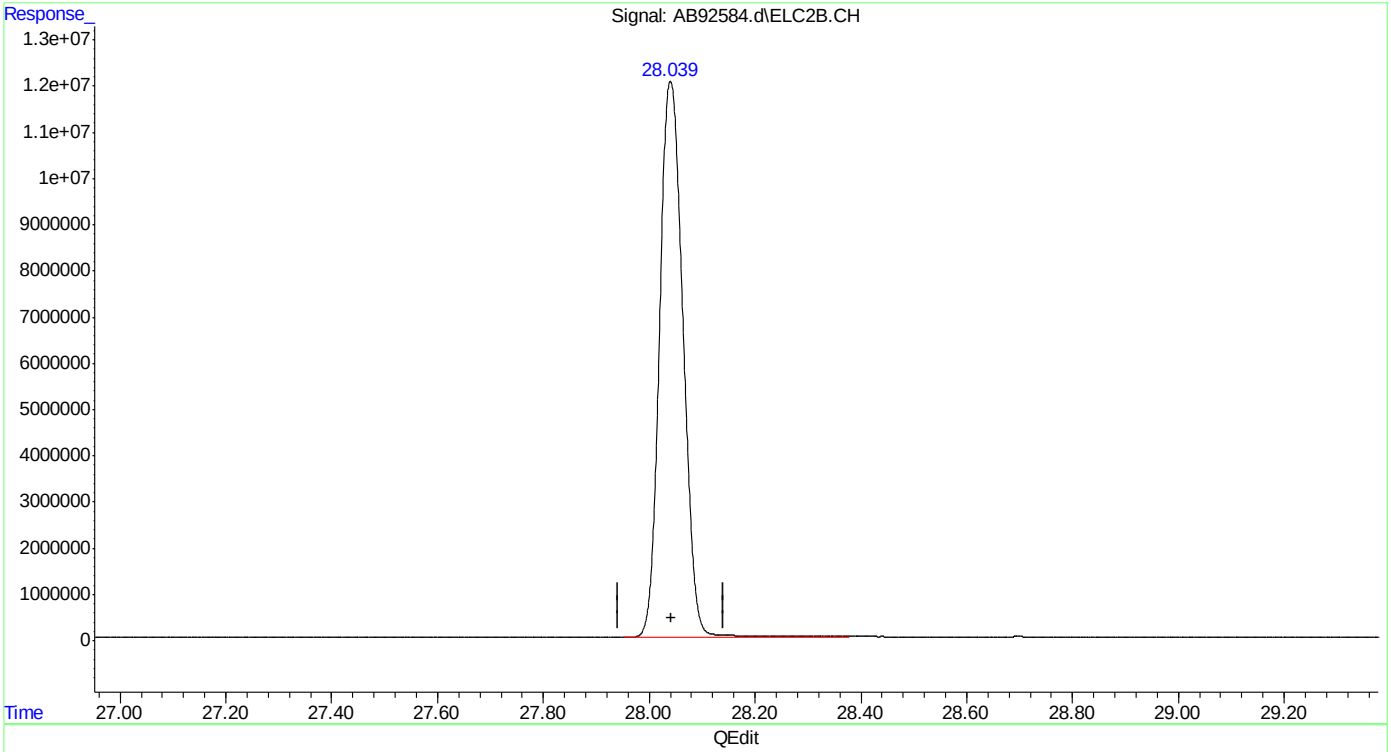
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:19:00 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:45 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.039min 481.118 ppb m
response 370568666

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:04:35
Operator : haleyn
Sample : ic5058-500
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:25 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	15.167	216882663	492.050 ppb	
Spiked Amount 50.000		Recovery	= 984.10%	
9) s 2,3,4-trifluorotoluene	20.218	196404820	474.362 ppb	
Spiked Amount 50.000		Recovery	= 948.72%	
25) s fluorobenzene #2	15.158	397668816	456.372 ppb	m
Spiked Amount 50.000		Recovery	= 912.74%	
27) s 2,3,4-trifluorotoluen...	20.210	223595831	467.409 ppb	
Spiked Amount 50.000		Recovery	= 934.82%	
Target Compounds				
1) h rt5.5-7	6.370	167372218	451.525 ppb	m
2) h rt7/10	8.710	194354385	457.315 ppb	m
3) mtbe	9.523	100621422	463.832 ppb	
4) h rt10/13	13.890	155650694	334.087 ppb	m
5) benzene	14.665	267858223	488.839 ppb	
8) toluene	19.122	292200946	485.358 ppb	
11) h rt20/25	21.900	289348466	475.004 ppb	m
13) ethylbenzene	22.217	308911008	483.540 ppb	
14) m,p-xylene	22.362	636990267	957.310 ppb	
15) o-xylene	23.164	316689512	475.158 ppb	
16) h decane	24.230	295400585	471.541 ppb	
17) t 1,3,5-trimethylbenzene	24.591	331881485	461.442 ppb	
18) 1,2,4-trimethylbenzene	25.107	308655844	460.312 ppb	
19) h butylcyclohexane	25.263	299471611	440.767 ppb	m
20) naphthalene	28.048	135255122	357.411 ppb	
23) mtbe #2	9.518	249261174	486.931 ppb	
24) benzene #2	14.659	570790388	417.898 ppb	
26) toluene #2	19.116	496230051	411.968 ppb	
28) ethylbenzene #2	22.209	416724163	429.905 ppb	
29) m,p-xylene #2	22.359	786287585	684.506 ppb	
30) o-xylene #2	23.156	407133845	412.520 ppb	
31) t 1,3,5-trimethylbenzen...	24.585	527310266	374.517 ppb	
32) 1,2,4-trimethylbenzen...	25.099	394779461	384.322 ppb	
33) naphthalene #2	28.042	263547441	327.406 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	394605223	383.643 ppb	m

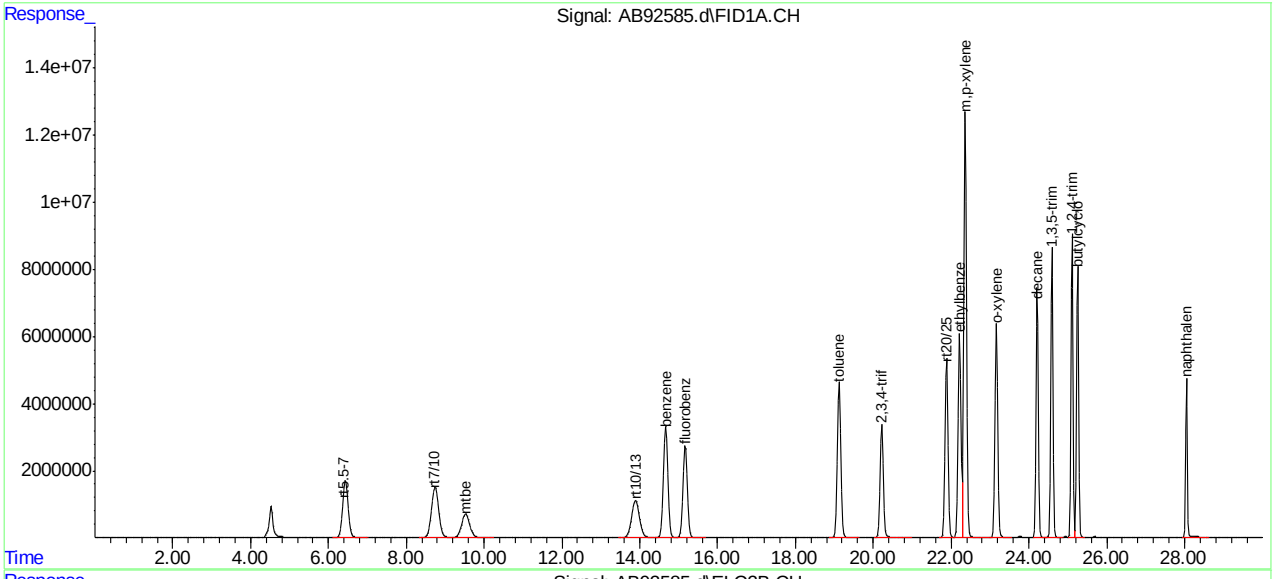
(f)=RT Delta > 1/2 Window (m)=manual int.

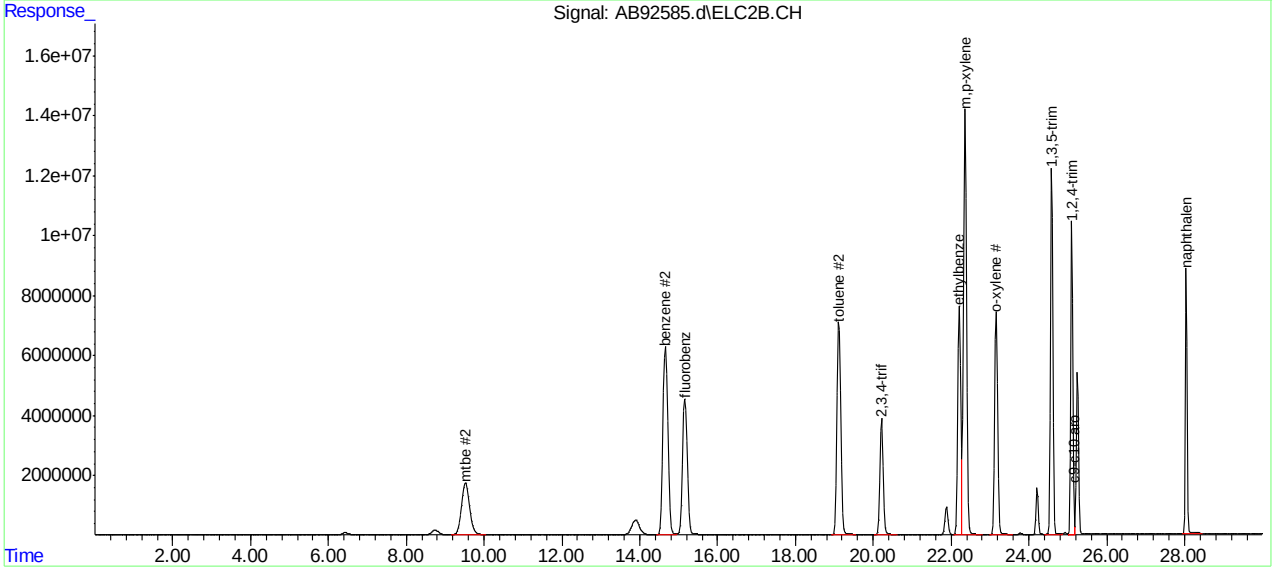
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:04:35
Operator : haleyn
Sample : ic5058-500
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:25 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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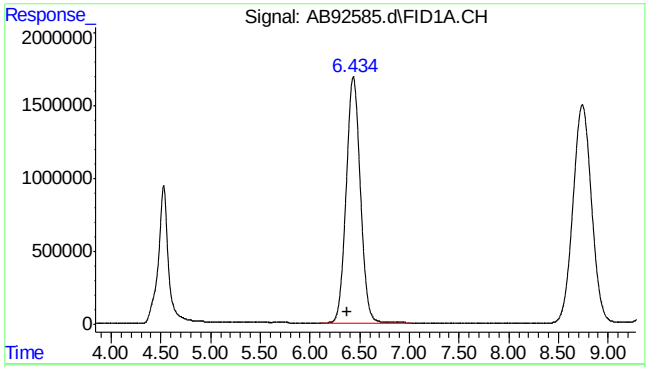
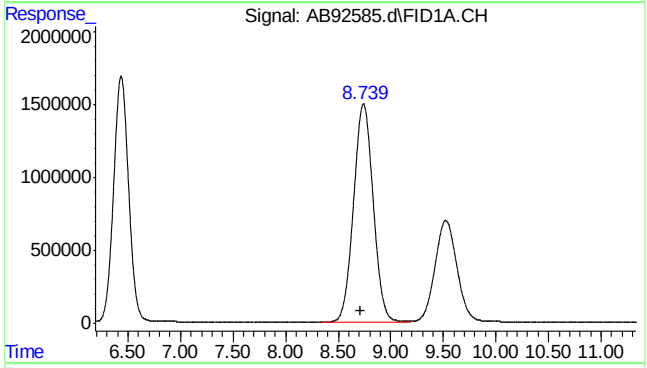


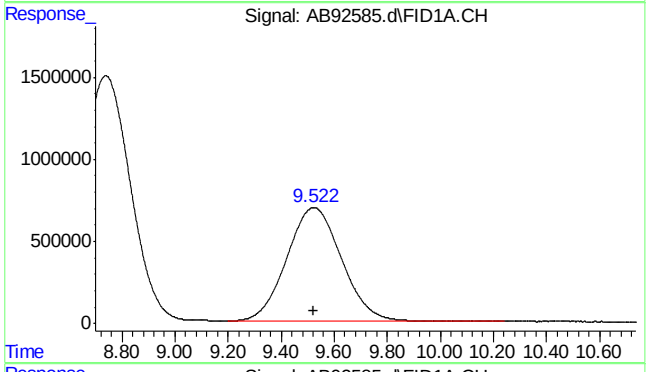
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 167372218
Conc: 451.53 ppb m



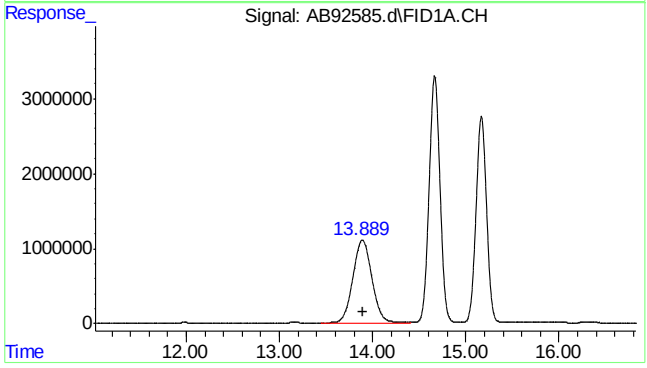
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 194354385
Conc: 457.32 ppb m



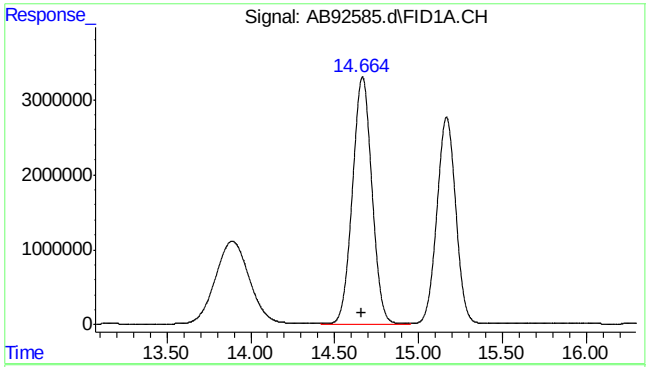
#3 mtbe

R.T.: 9.523 min
Delta R.T.: 0.000 min
Response: 100621422
Conc: 463.83 ppb



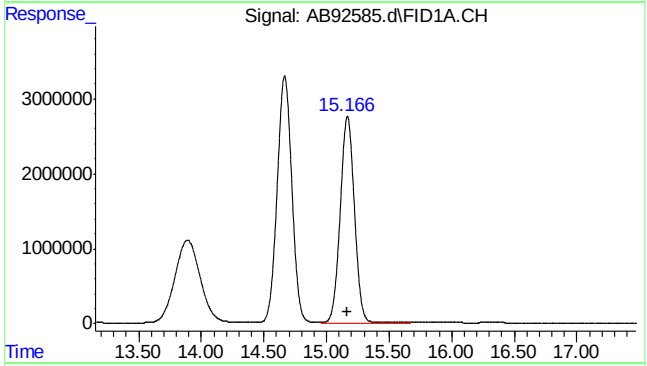
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 155650694
Conc: 334.09 ppb m



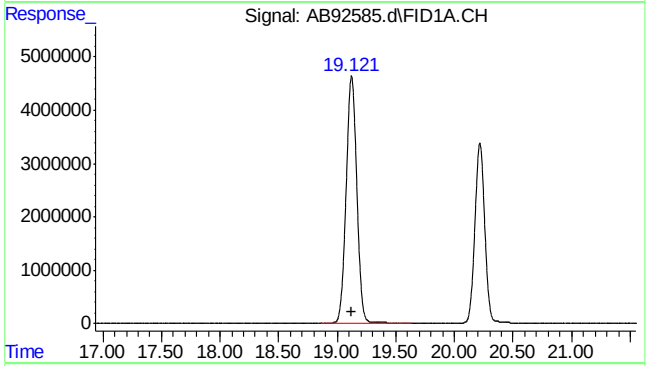
#5 benzene

R.T.: 14.665 min
Delta R.T.: 0.002 min
Response: 267858223
Conc: 488.84 ppb



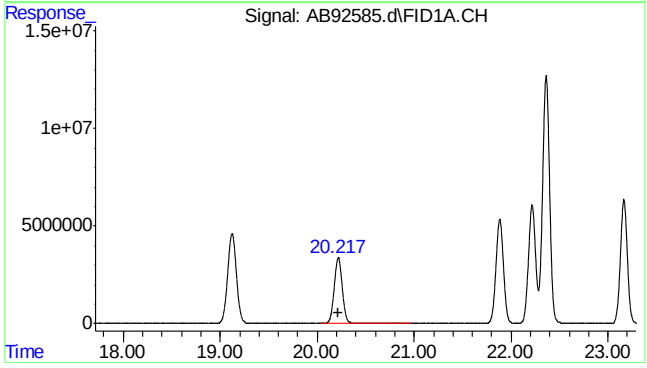
#6 fluorobenzene

R.T.: 15.167 min
Delta R.T.: 0.002 min
Response: 216882663
Conc: 492.05 ppb



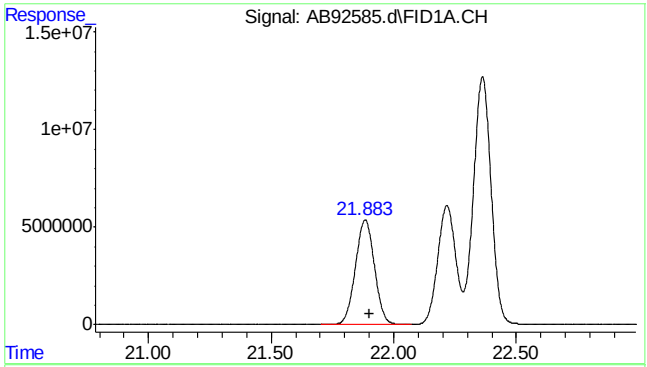
#8 toluene

R.T.: 19.122 min
Delta R.T.: 0.002 min
Response: 292200946
Conc: 485.36 ppb



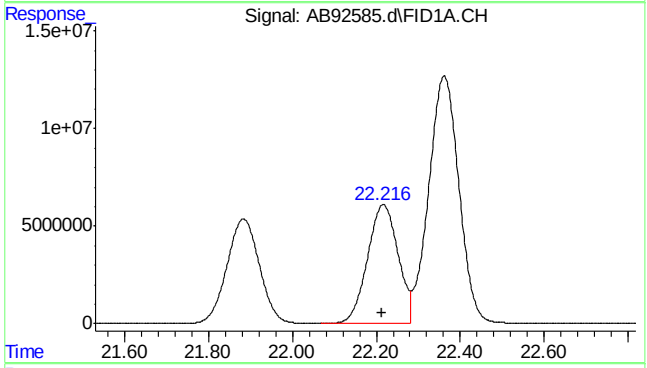
#9 2,3,4-trifluorotoluene

R.T.: 20.218 min
Delta R.T.: 0.002 min
Response: 196404820
Conc: 474.36 ppb



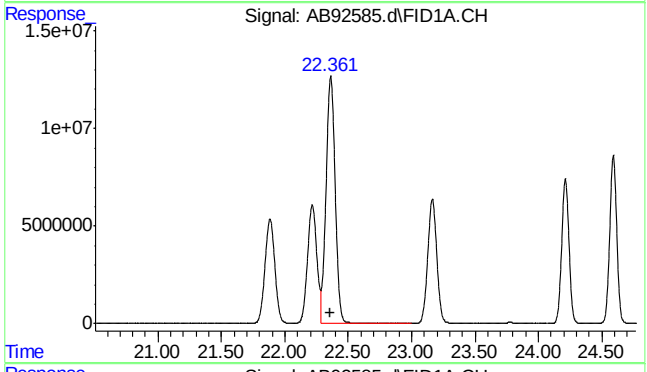
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 289348466
Conc: 475.00 ppb m



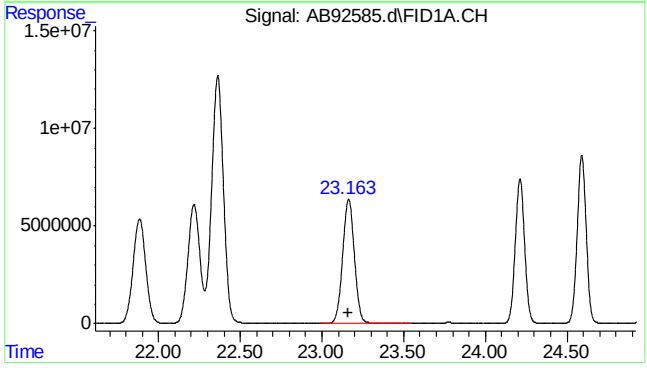
#13 ethylbenzene

R.T.: 22.217 min
Delta R.T.: 0.003 min
Response: 308911008
Conc: 483.54 ppb



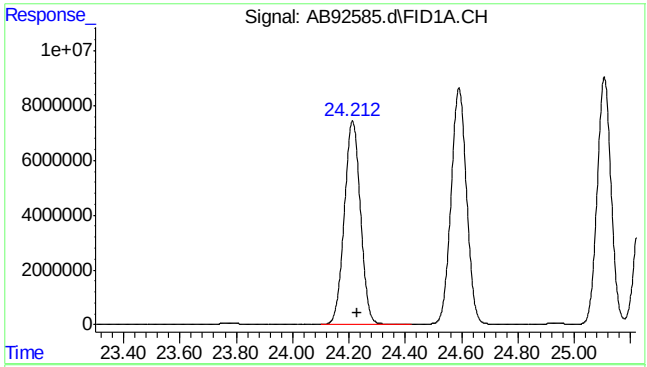
#14 m,p-xylene

R.T.: 22.362 min
Delta R.T.: 0.003 min
Response: 636990267
Conc: 957.31 ppb



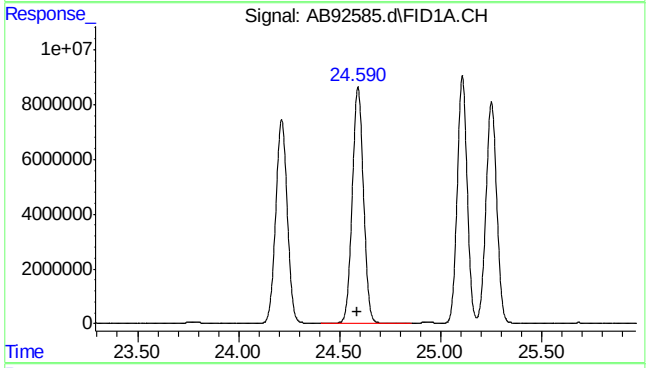
#15 o-xylene

R.T.: 23.164 min
Delta R.T.: 0.002 min
Response: 316689512
Conc: 475.16 ppb



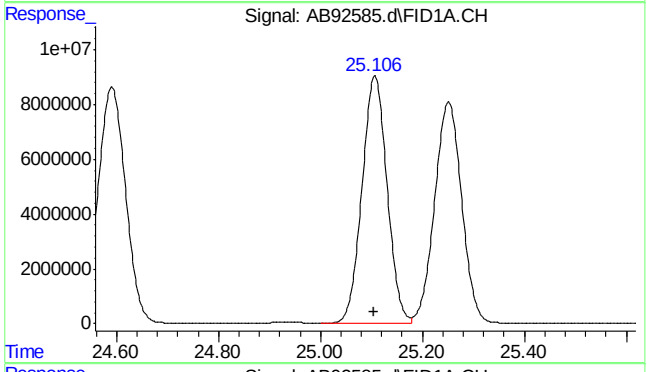
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 295400585
Conc: 471.54 ppb



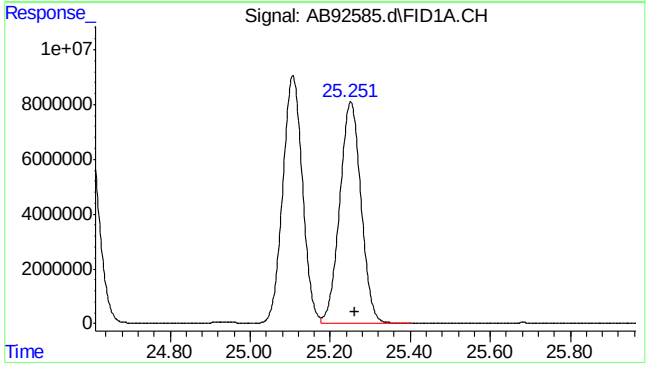
#17 1,3,5-trimethylbenzene

R.T.: 24.591 min
Delta R.T.: 0.002 min
Response: 331881485
Conc: 461.44 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.107 min
Delta R.T.: 0.000 min
Response: 308655844
Conc: 460.31 ppb



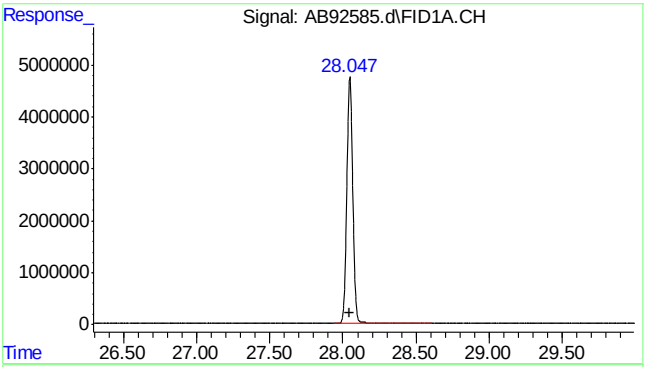
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 299471611
Conc: 440.77 ppb m

7.5.2

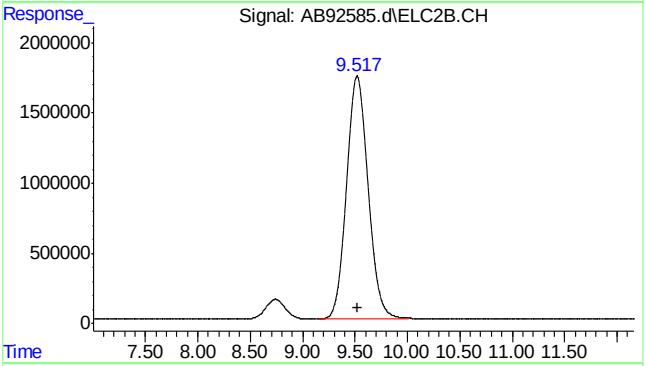
7

SGS ACCUTEST MC45816A



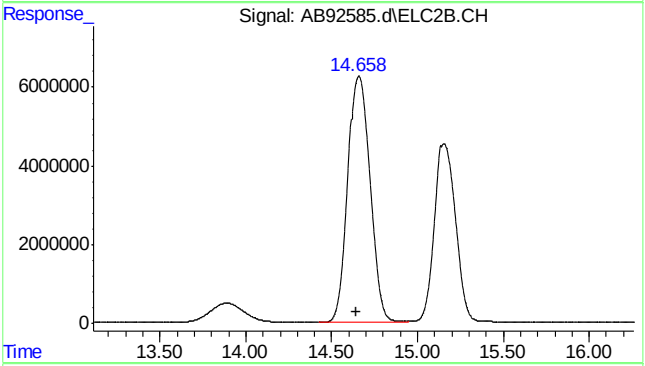
#20 naphthalene

R.T.: 28.048 min
Delta R.T.: 0.000 min
Response: 135255122
Conc: 357.41 ppb



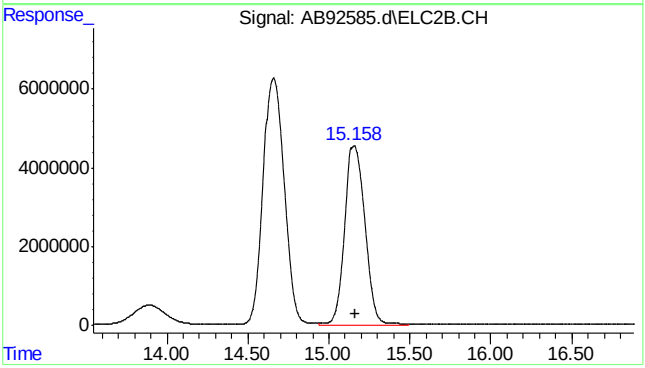
#23 mtbe #2

R.T.: 9.518 min
Delta R.T.: -0.005 min
Response: 249261174
Conc: 486.93 ppb



#24 benzene #2

R.T.: 14.659 min
Delta R.T.: 0.018 min
Response: 570790388
Conc: 417.90 ppb



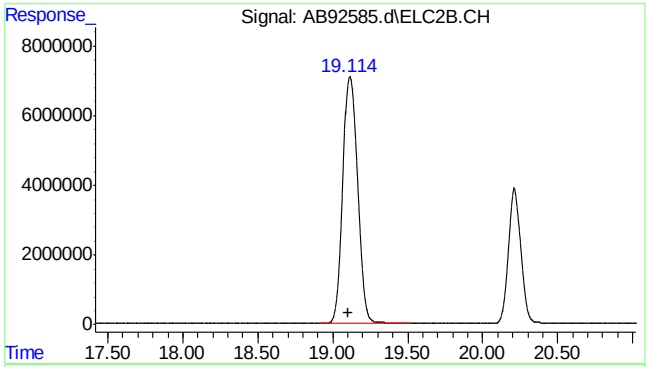
#25 fluorobenzene #2

R.T.: 15.158 min
Delta R.T.: -0.003 min
Response: 397668816
Conc: 456.37 ppb m

7.5.2

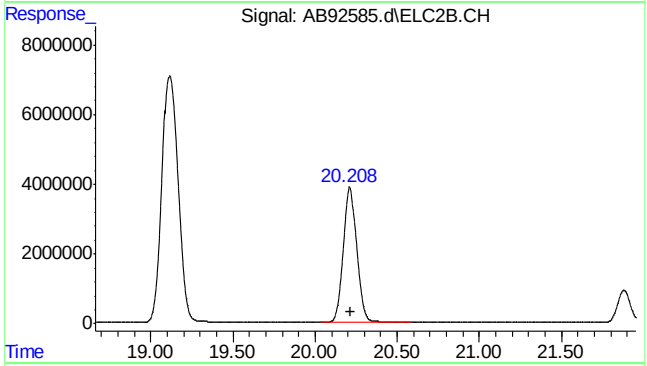
7

SGS ACCUTEST MC45816A



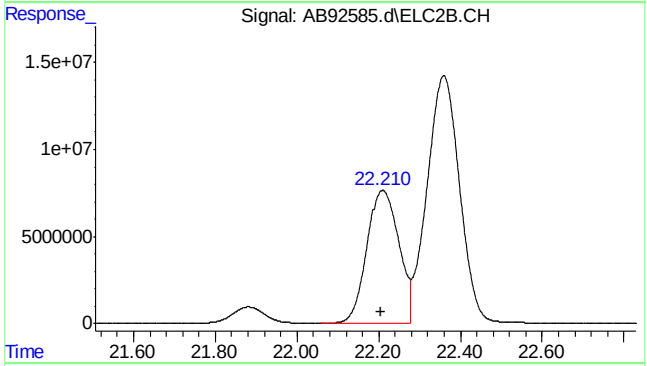
#26 toluene #2

R.T.: 19.116 min
Delta R.T.: 0.010 min
Response: 496230051
Conc: 411.97 ppb



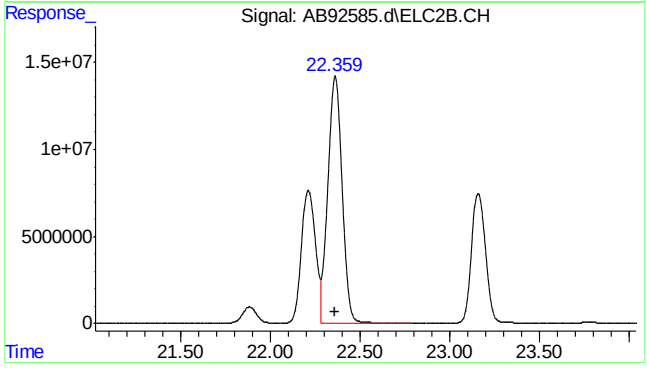
#27 2,3,4-trifluorotoluene #2

R.T.: 20.210 min
Delta R.T.: -0.003 min
Response: 223595831
Conc: 467.41 ppb



#28 ethylbenzene #2

R.T.: 22.209 min
Delta R.T.: 0.004 min
Response: 416724163
Conc: 429.91 ppb



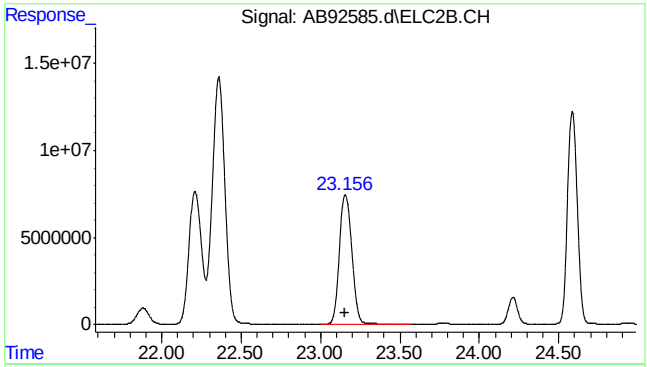
#29 m,p-xylene #2

R.T.: 22.359 min
Delta R.T.: 0.004 min
Response: 786287585
Conc: 684.51 ppb

7.5.2

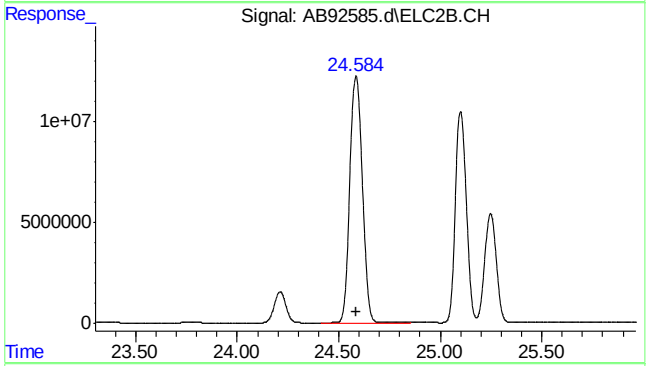
7

SGS ACCUTEST MC45816A



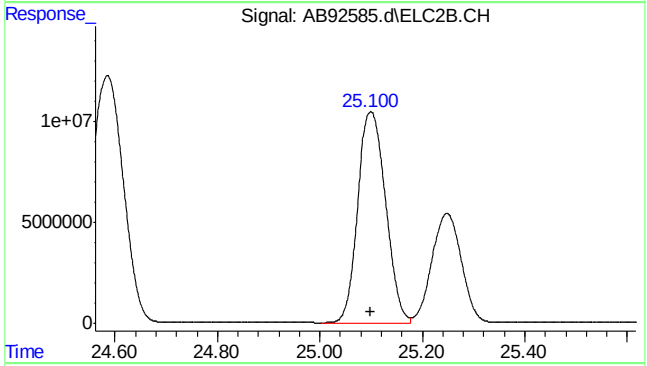
#30 o-xylene #2

R.T.: 23.156 min
Delta R.T.: 0.002 min
Response: 407133845
Conc: 412.52 ppb



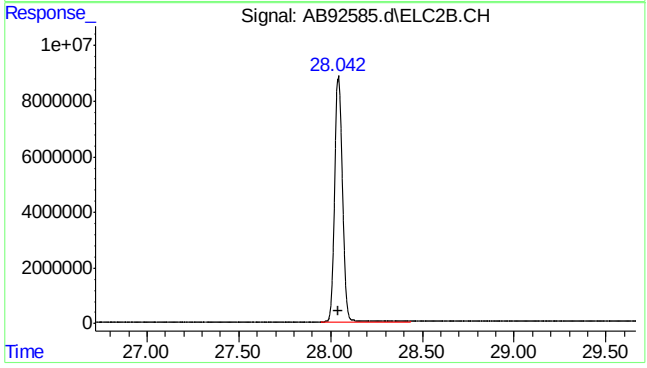
#31 1,3,5-trimethylbenzene #2

R.T.: 24.585 min
Delta R.T.: 0.001 min
Response: 527310266
Conc: 374.52 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.099 min
Delta R.T.: 0.000 min
Response: 394779461
Conc: 384.32 ppb



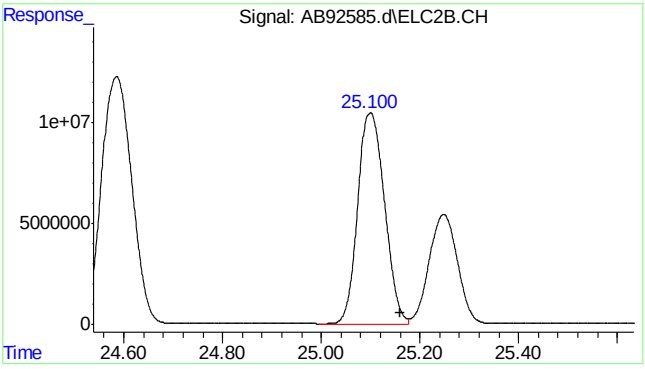
#33 naphthalene #2

R.T.: 28.042 min
Delta R.T.: 0.000 min
Response: 263547441
Conc: 327.41 ppb m

7.5.2

7

SGS ACCUTEST MC45816A




```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response: 394605223
      Conc: 383.64 ppb m
```

7.5.2

7

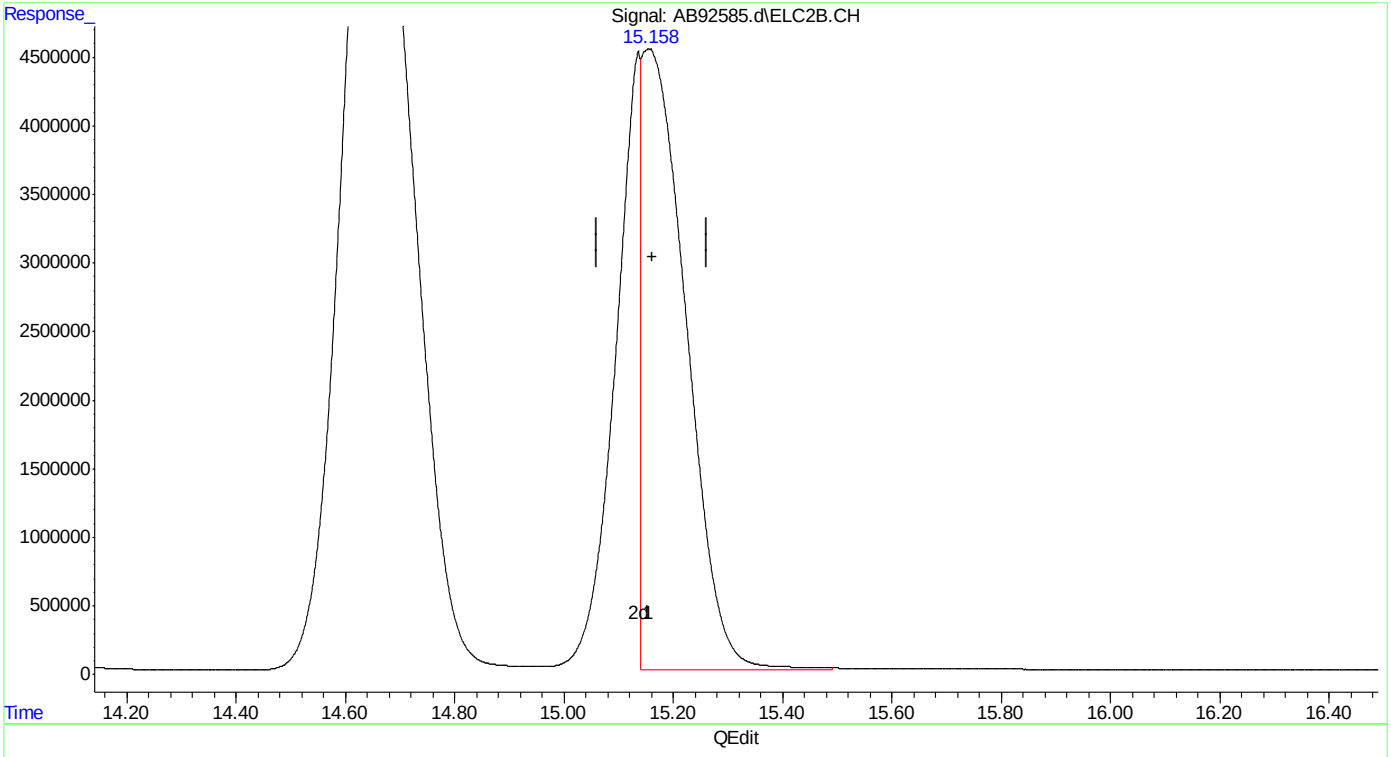
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:04:35
Operator : haleyn
Sample : ic5058-500
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:14:21 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
15.154min 291.613 ppb
response 254102913

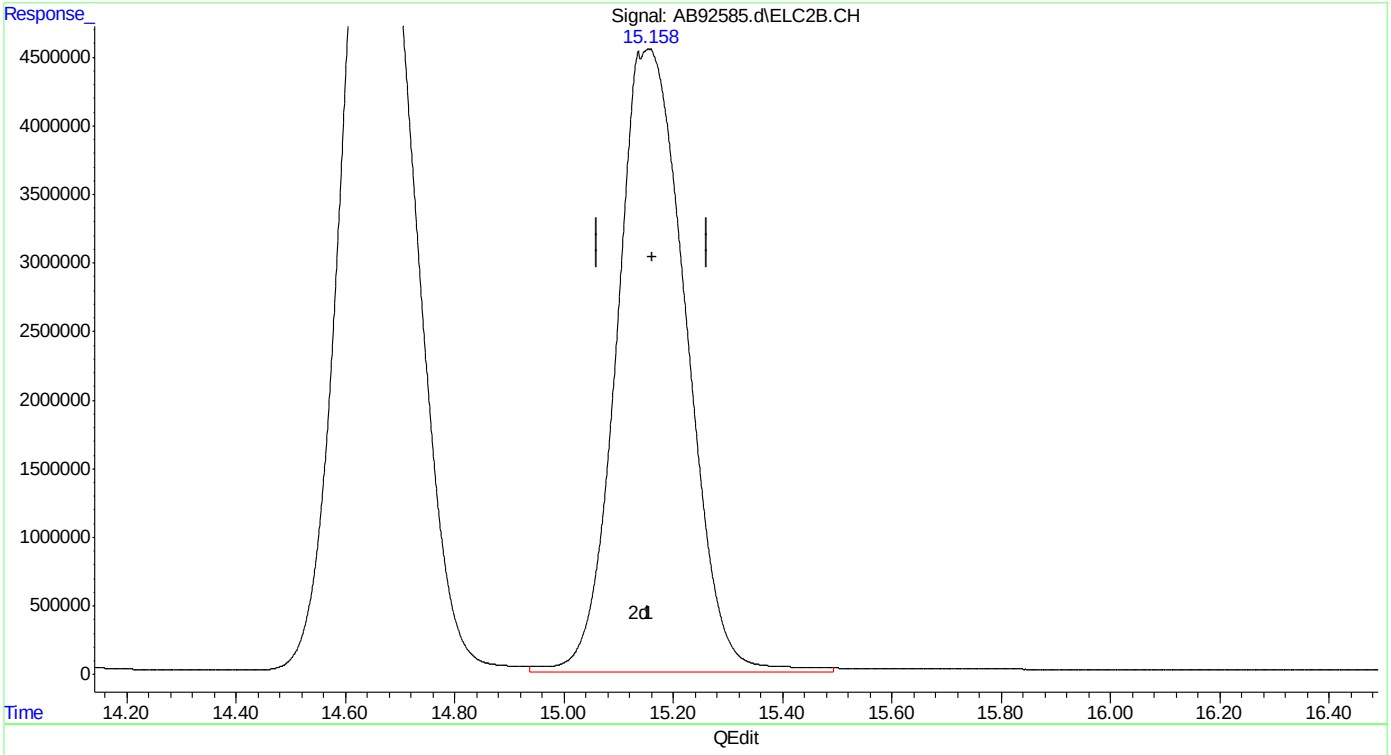
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:15:50 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 09:04:35
Operator  : haleyn
Sample    : ic5058-500
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:14:21 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(25) fluorobenzene #2 (s)

15.158min 456.372 ppb m

response 397668816

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:15:55 2016

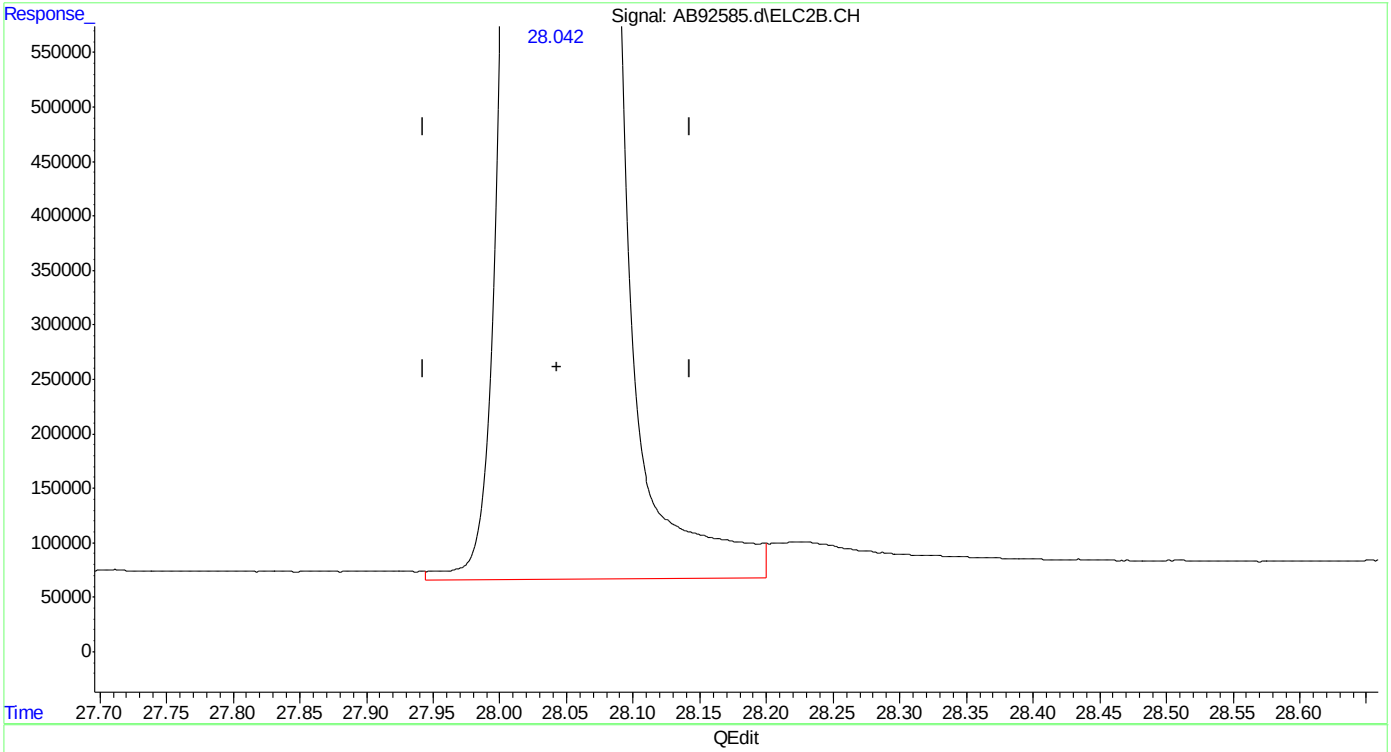
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:04:35
Operator : haleyn
Sample : ic5058-500
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:14:21 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.042min 325.270 ppb
response 261828192

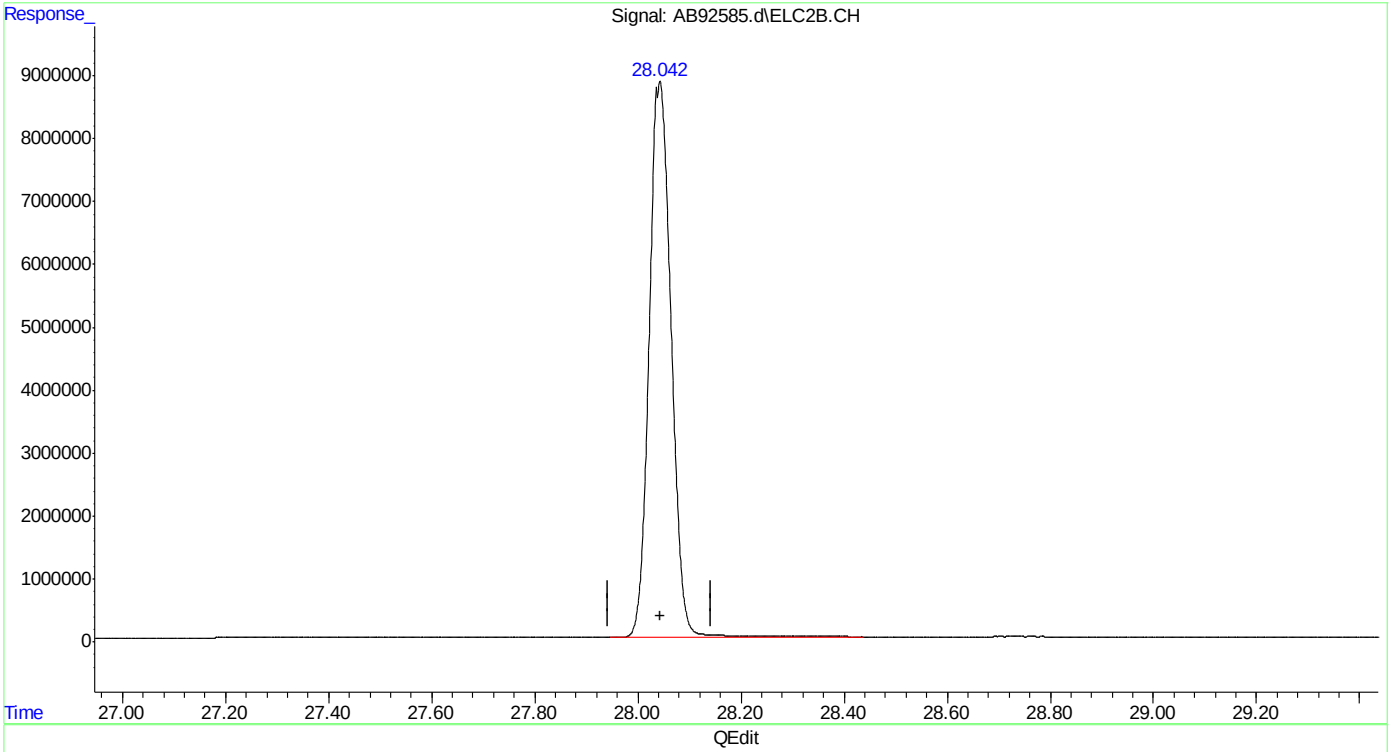
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 09:04:35
Operator  : haleyn
Sample    : ic5058-500
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:14:21 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(33) naphthalene #2

28.042min 327.406 ppb m

response 263547441

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:16:14 2016

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:41:35
Operator : haleyn
Sample : ic5058-250
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:13:44 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	15.165	107110583	241.878 ppb	
Spiked Amount 50.000		Recovery	= 483.76%	
9) s 2,3,4-trifluorotoluene	20.216	97260456	232.566 ppb	
Spiked Amount 50.000		Recovery	= 465.13%	
25) s fluorobenzene #2	15.161	215884692	247.382 ppb	
Spiked Amount 50.000		Recovery	= 494.76%	
27) s 2,3,4-trifluorotoluen...	20.213	116429742	242.319 ppb	
Spiked Amount 50.000		Recovery	= 484.64%	
Target Compounds				
1) h rt5.5-7	6.370	83244106	220.827 ppb	m
2) h rt7/10	8.710	96840946	224.553 ppb	m
3) mtbe	9.522	51254615	234.123 ppb	
4) h rt10/13	13.890	90504546	187.297 ppb	m
5) benzene	14.663	132502238	240.503 ppb	
8) toluene	19.120	144698734	238.814 ppb	
11) h rt20/25	21.900	144023280	234.314 ppb	m
13) ethylbenzene	22.214	153475823	238.683 ppb	
14) m,p-xylene	22.359	316722218	472.211 ppb	
15) o-xylene	23.162	159273190	237.228 ppb	
16) h decane	24.230	148414165	234.860 ppb	
17) t 1,3,5-trimethylbenzene	24.589	170117803	234.423 ppb	
18) 1,2,4-trimethylbenzene	25.106	158156158	233.663 ppb	
19) h butylcyclohexane	25.263	153083117	221.661 ppb	m
20) naphthalene	28.047	79292980	204.027 ppb	
23) mtbe #2	9.523	126503933	246.652 ppb	
24) benzene #2	14.641	318344627	230.472 ppb	
26) toluene #2	19.106	274838756	224.897 ppb	
28) ethylbenzene #2	22.205	227655136	232.509 ppb	
29) m,p-xylene #2	22.355	451664302	379.681 ppb	
30) o-xylene #2	23.154	229262939	229.586 ppb	
31) t 1,3,5-trimethylbenzen...	24.584	312512766	217.886 ppb	
32) 1,2,4-trimethylbenzen...	25.099	231516865	221.745 ppb	
33) naphthalene #2	28.043	164135600	197.827 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	231134335	220.988 ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

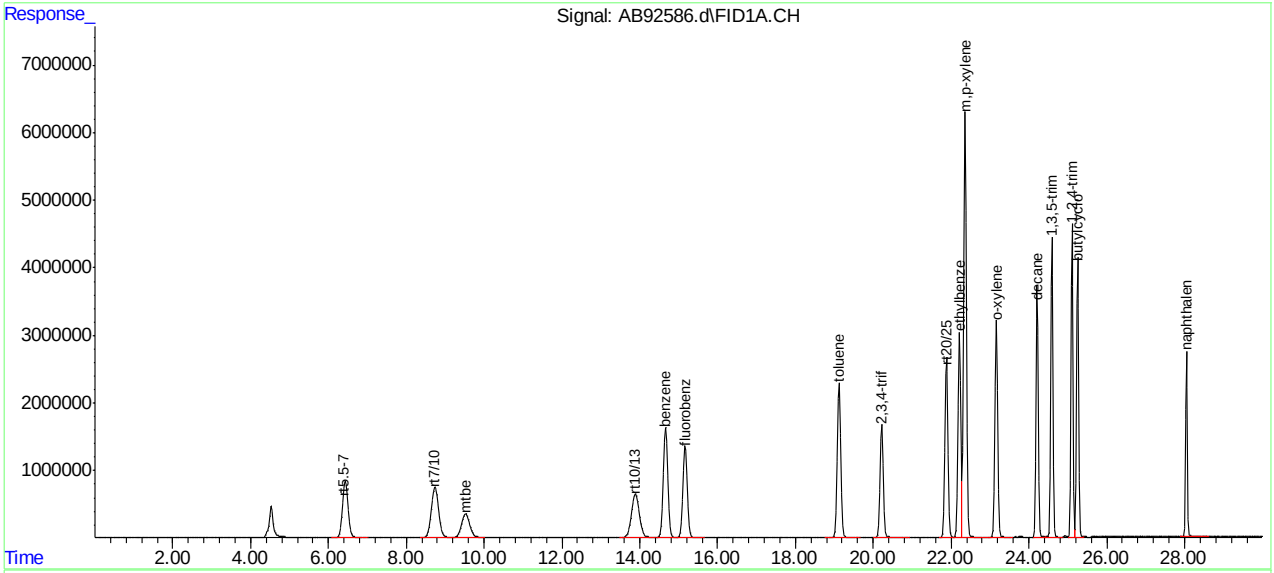
SGS ACCUTEST MC45816A

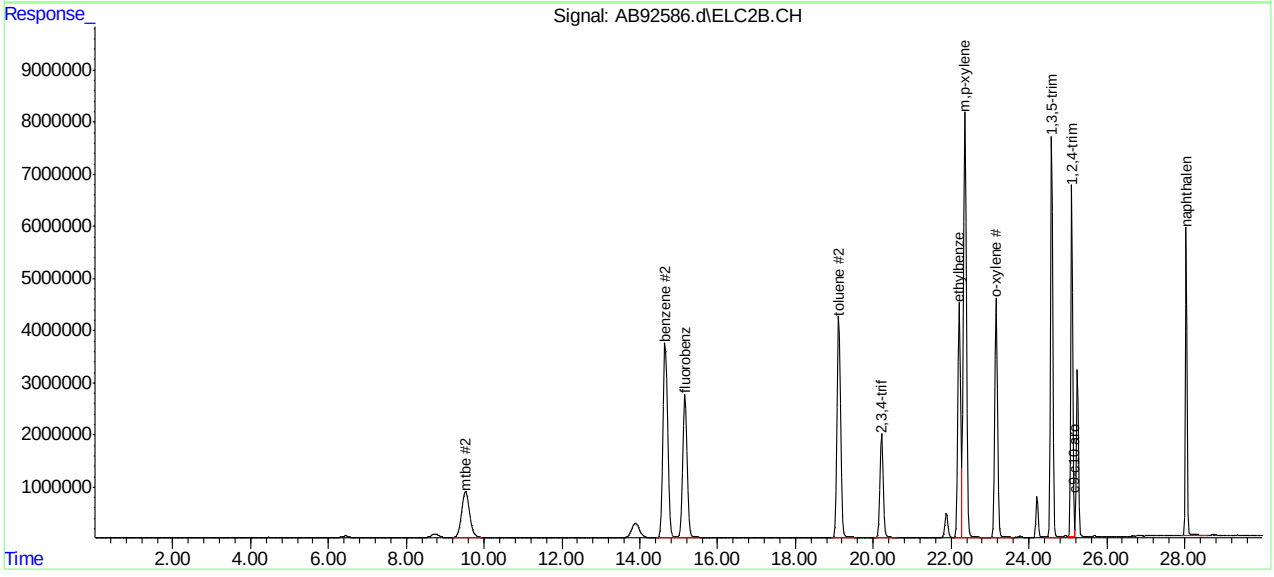
Quantitation Report (QT Reviewed)

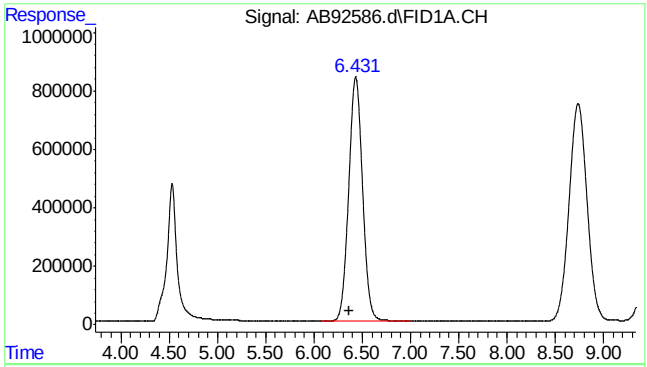
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:41:35
Operator : haleyn
Sample : ic5058-250
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:13:44 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

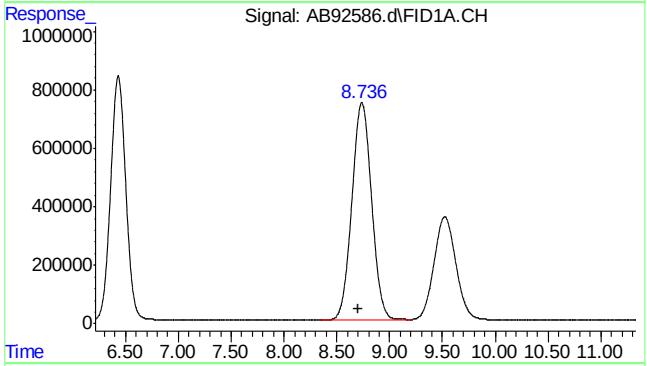






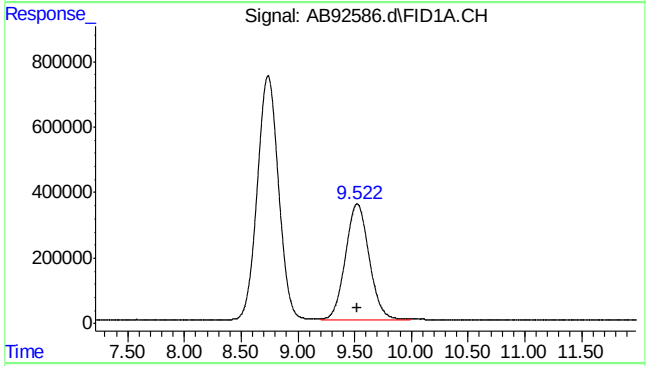
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 83244106
Conc: 220.83 ppb m



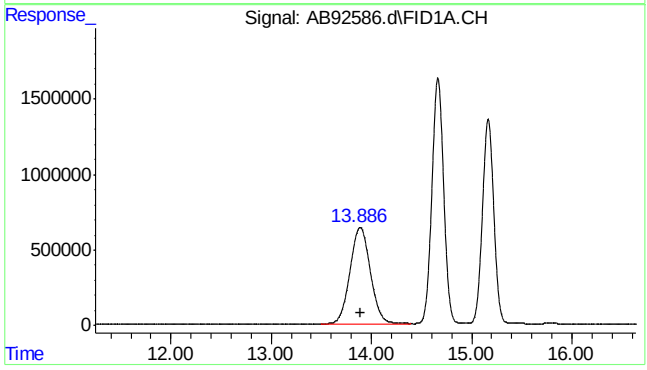
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 96840946
Conc: 224.55 ppb m



#3 mtbe

R.T.: 9.522 min
Delta R.T.: -0.002 min
Response: 51254615
Conc: 234.12 ppb

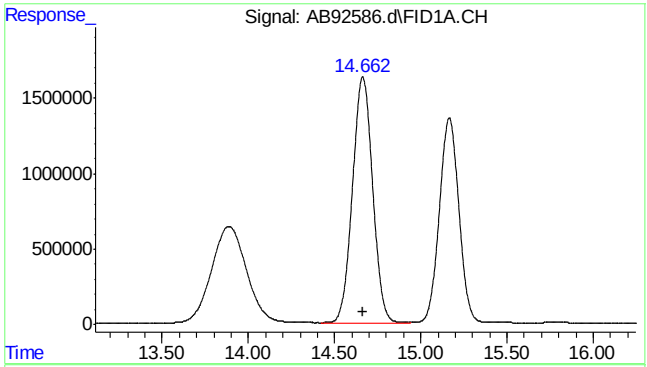


#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 90504546
Conc: 187.30 ppb m

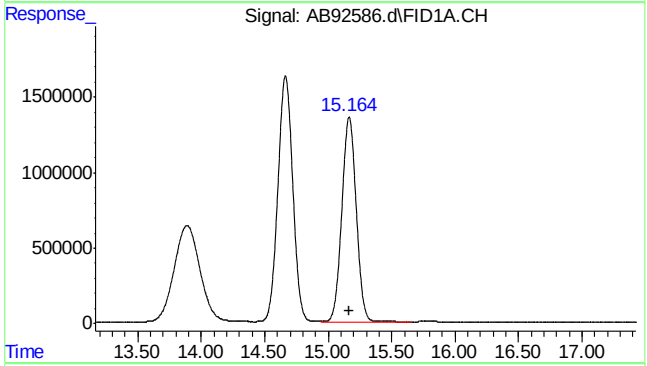
7.5.3

7



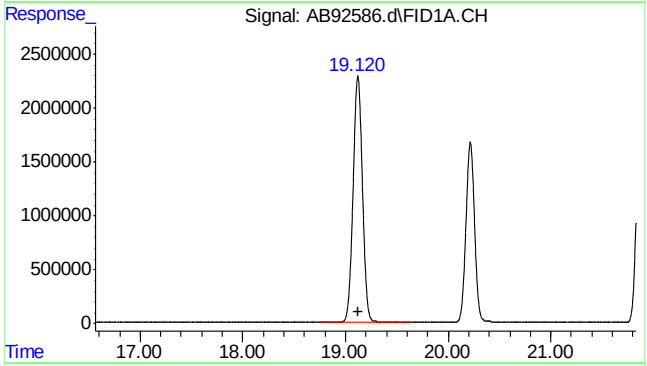
#5 benzene

R.T.: 14.663 min
Delta R.T.: -0.002 min
Response: 132502238
Conc: 240.50 ppb



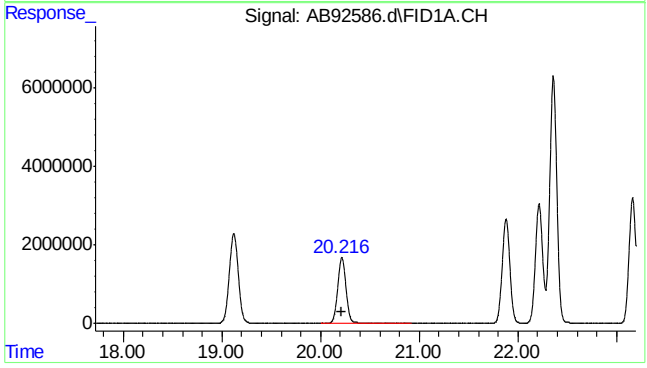
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: -0.002 min
Response: 107110583
Conc: 241.88 ppb



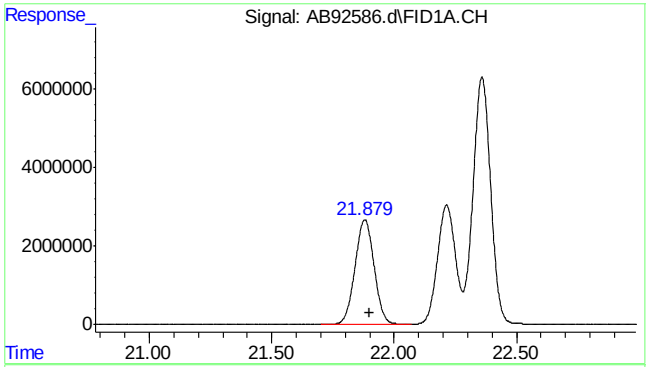
#8 toluene

R.T.: 19.120 min
Delta R.T.: -0.002 min
Response: 144698734
Conc: 238.81 ppb



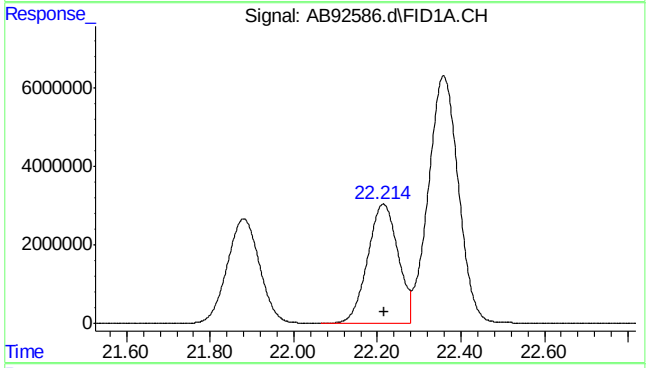
#9 2,3,4-trifluorotoluene

R.T.: 20.216 min
Delta R.T.: -0.002 min
Response: 97260456
Conc: 232.57 ppb



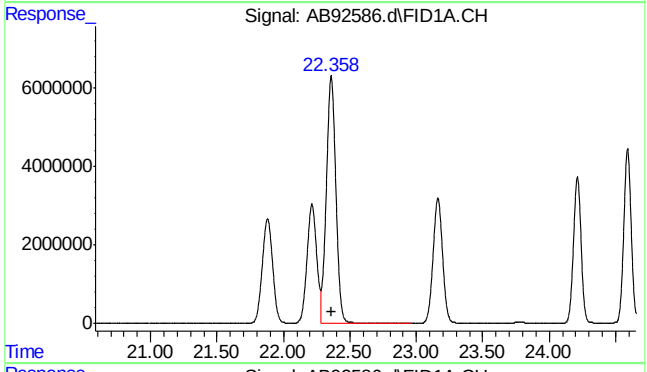
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 144023280
Conc: 234.31 ppb m



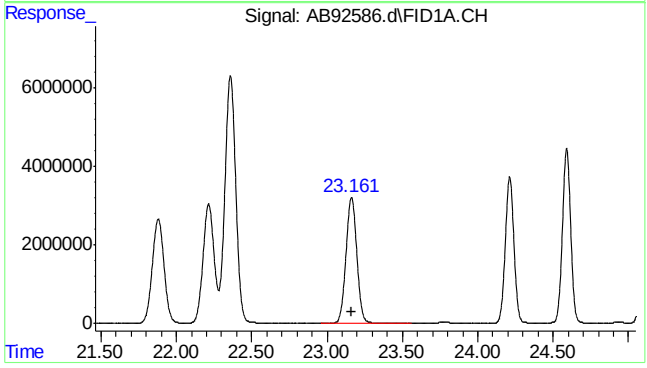
#13 ethylbenzene

R.T.: 22.214 min
Delta R.T.: -0.002 min
Response: 153475823
Conc: 238.68 ppb



#14 m,p-xylene

R.T.: 22.359 min
Delta R.T.: -0.001 min
Response: 316722218
Conc: 472.21 ppb



#15 o-xylene

R.T.: 23.162 min
Delta R.T.: -0.002 min
Response: 159273190
Conc: 237.23 ppb

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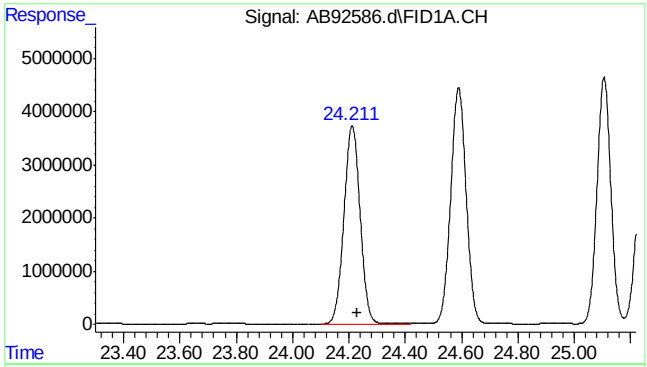
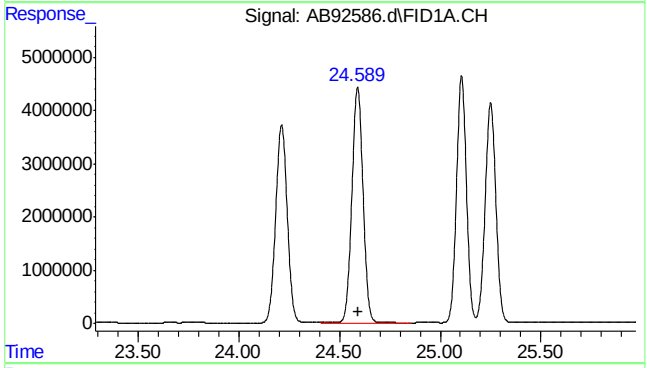


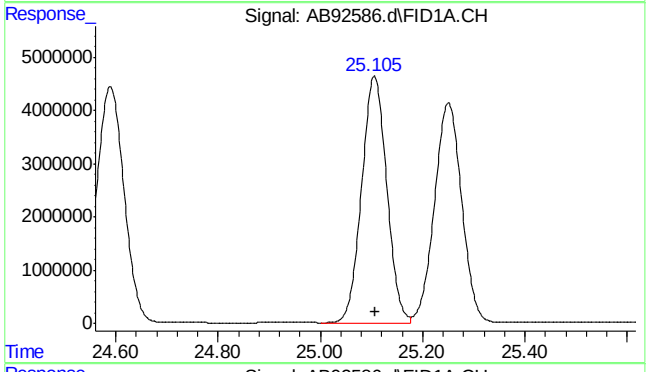
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 148414165
Conc: 234.86 ppb



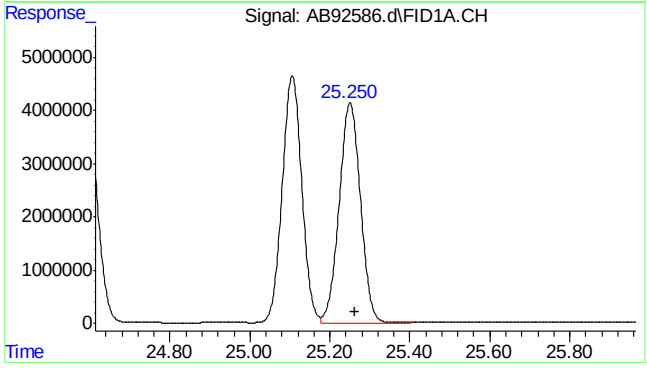
#17 1,3,5-trimethylbenzene

R.T.: 24.589 min
Delta R.T.: -0.002 min
Response: 170117803
Conc: 234.42 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.106 min
Delta R.T.: -0.002 min
Response: 158156158
Conc: 233.66 ppb



#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 153083117
Conc: 221.66 ppb m

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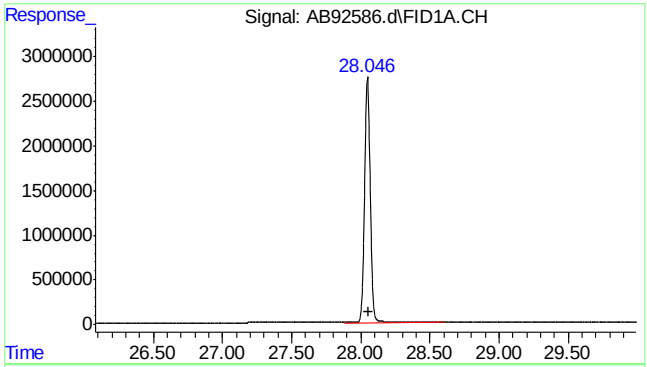
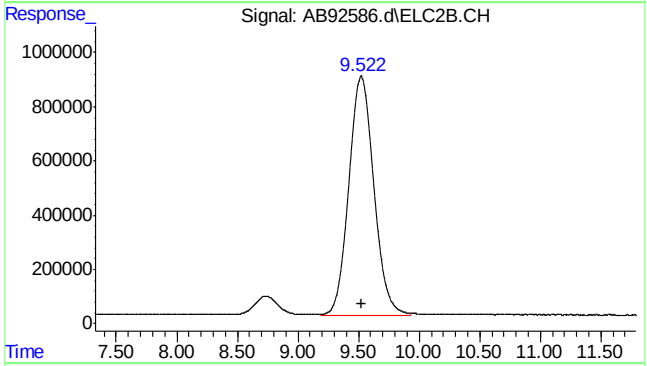


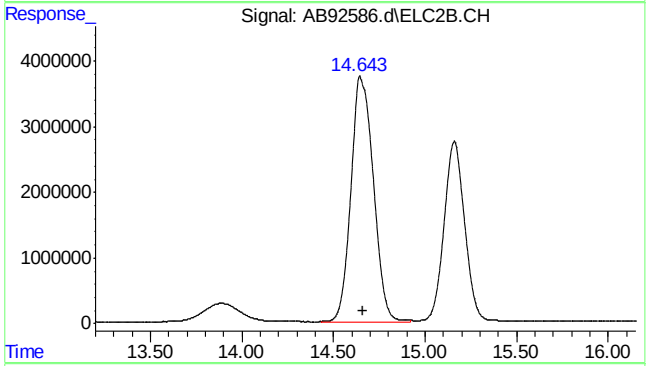
#20 naphthalene

R.T.: 28.047 min
Delta R.T.: -0.004 min
Response: 79292980
Conc: 204.03 ppb



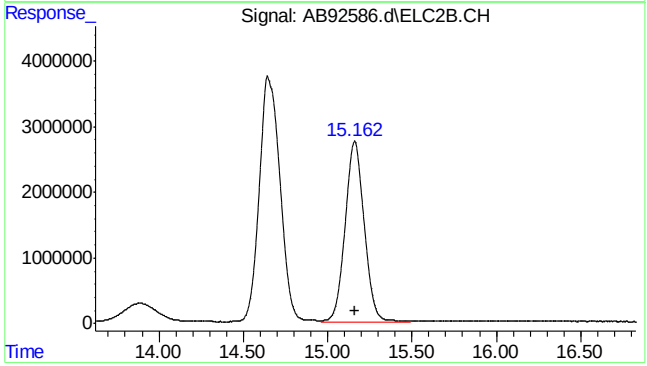
#23 mtbe #2

R.T.: 9.523 min
Delta R.T.: 0.000 min
Response: 126503933
Conc: 246.65 ppb



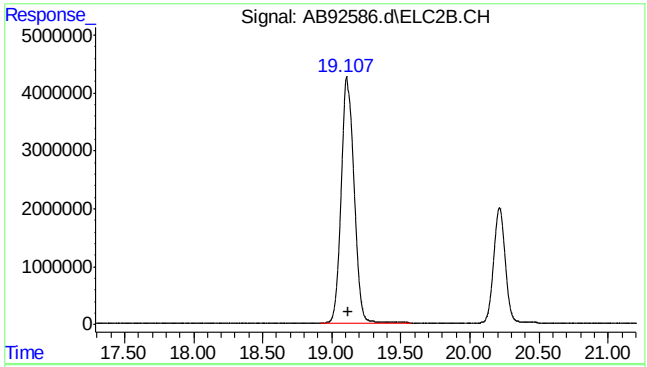
#24 benzene #2

R.T.: 14.641 min
Delta R.T.: -0.021 min
Response: 318344627
Conc: 230.47 ppb



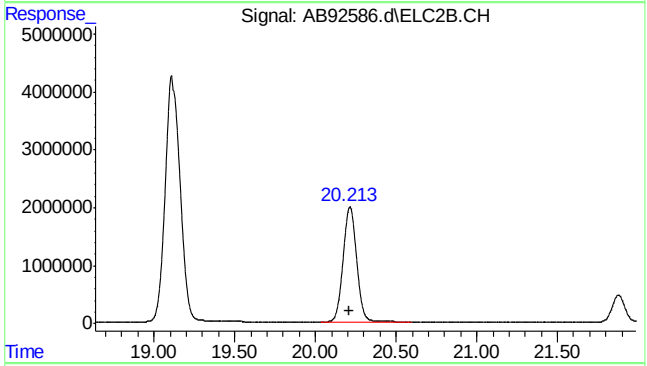
#25 fluorobenzene #2

R.T.: 15.161 min
Delta R.T.: 0.000 min
Response: 215884692
Conc: 247.38 ppb



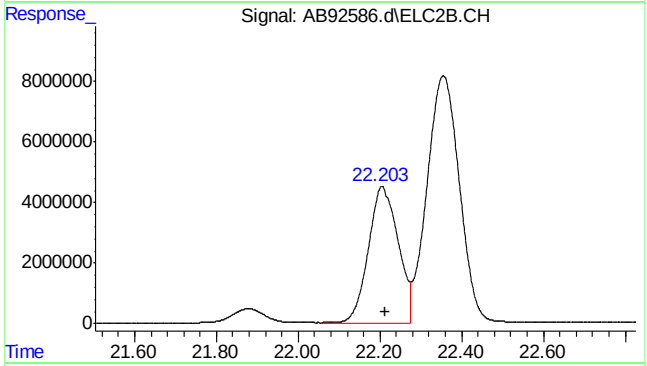
#26 toluene #2

R.T.: 19.106 min
Delta R.T.: -0.014 min
Response: 274838756
Conc: 224.90 ppb



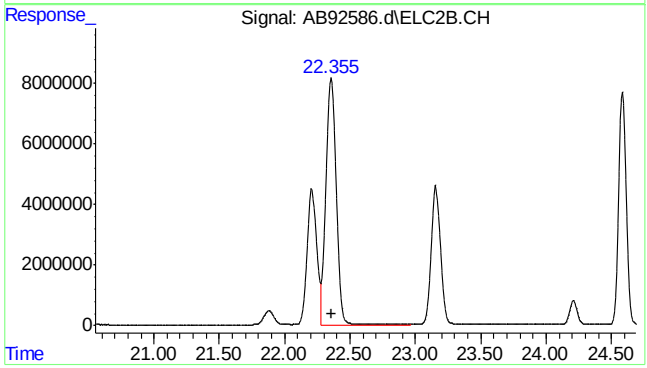
#27 2,3,4-trifluorotoluene #2

R.T.: 20.213 min
Delta R.T.: 0.000 min
Response: 116429742
Conc: 242.32 ppb



#28 ethylbenzene #2

R.T.: 22.205 min
Delta R.T.: -0.008 min
Response: 227655136
Conc: 232.51 ppb



#29 m,p-xylene #2

R.T.: 22.355 min
Delta R.T.: -0.002 min
Response: 451664302
Conc: 379.68 ppb

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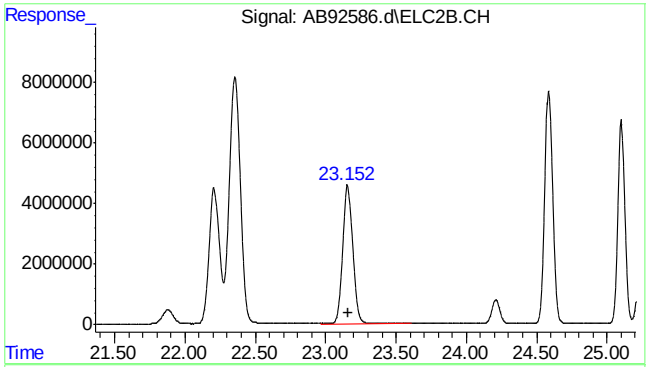
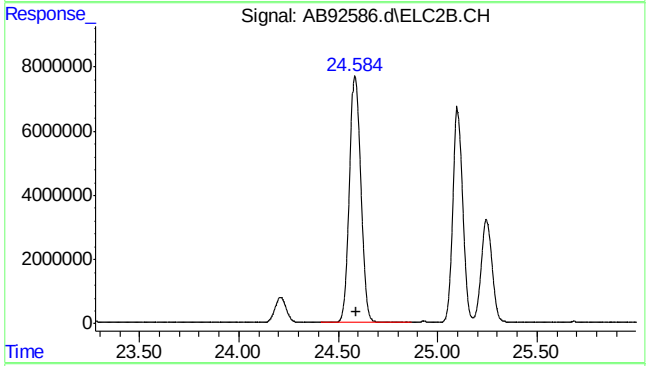


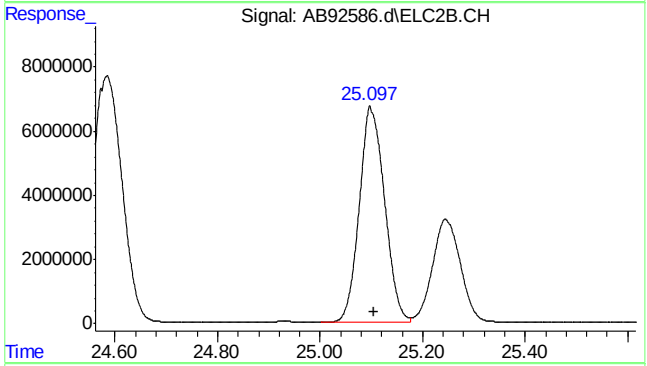
#30 o-xylene #2

R.T.: 23.154 min
Delta R.T.: -0.008 min
Response: 229262939
Conc: 229.59 ppb



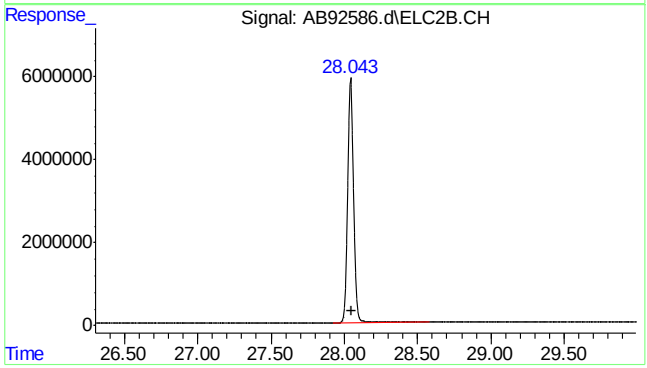
#31 1,3,5-trimethylbenzene #2

R.T.: 24.584 min
Delta R.T.: -0.004 min
Response: 312512766
Conc: 217.89 ppb



#32 1,2,4-trimethylbenzene #2

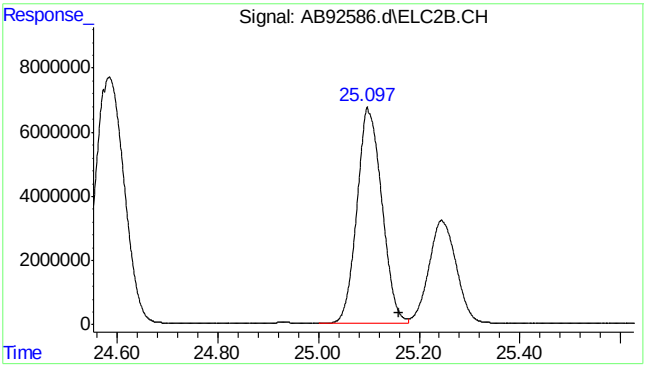
R.T.: 25.099 min
Delta R.T.: -0.006 min
Response: 231516865
Conc: 221.74 ppb



#33 naphthalene #2

R.T.: 28.043 min
Delta R.T.: -0.004 min
Response: 164135600
Conc: 197.83 ppb m

SGS ACCUTEST MC45816A



#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 231134335
Conc: 220.99 ppb m

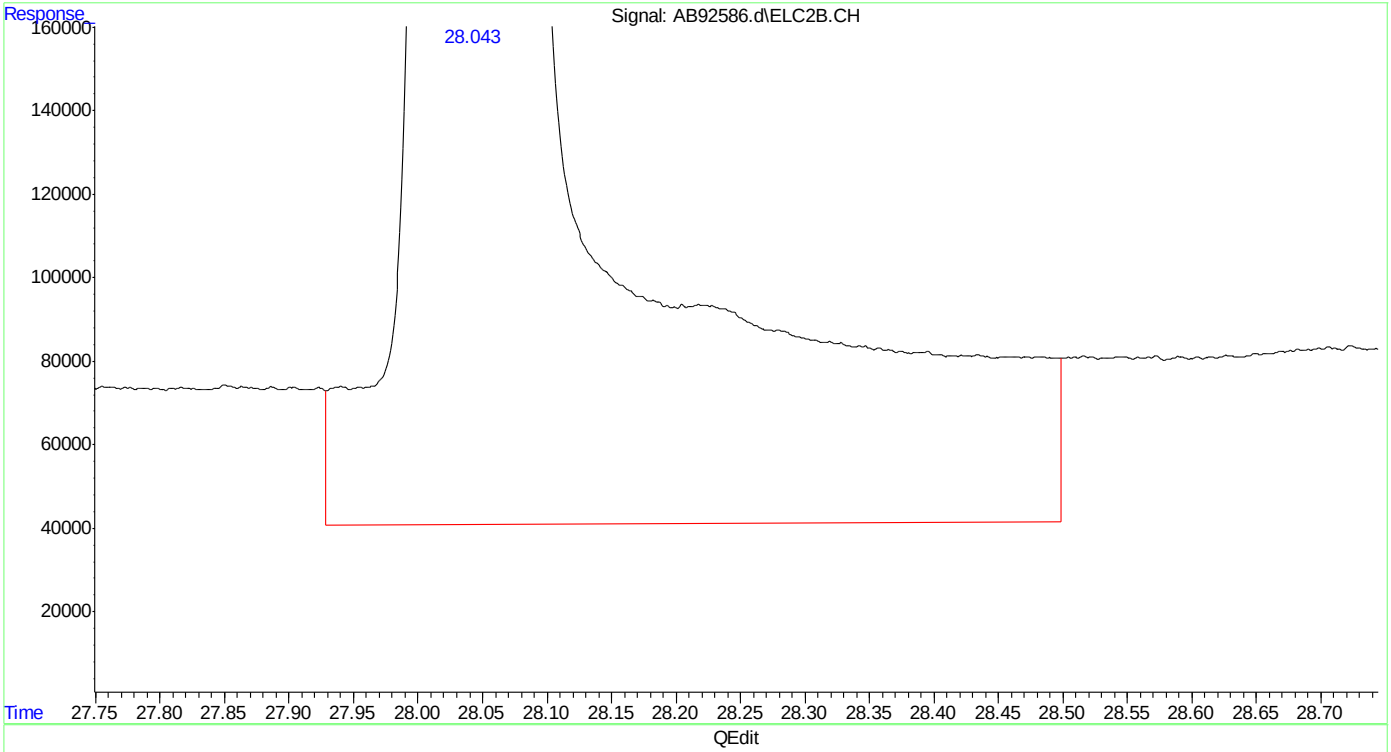
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 09:41:35
Operator  : haleyn
Sample    : ic5058-250
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:11:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(33) naphthalene #2

28.043min 211.662 ppb

response 175614363

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:13:29 2016

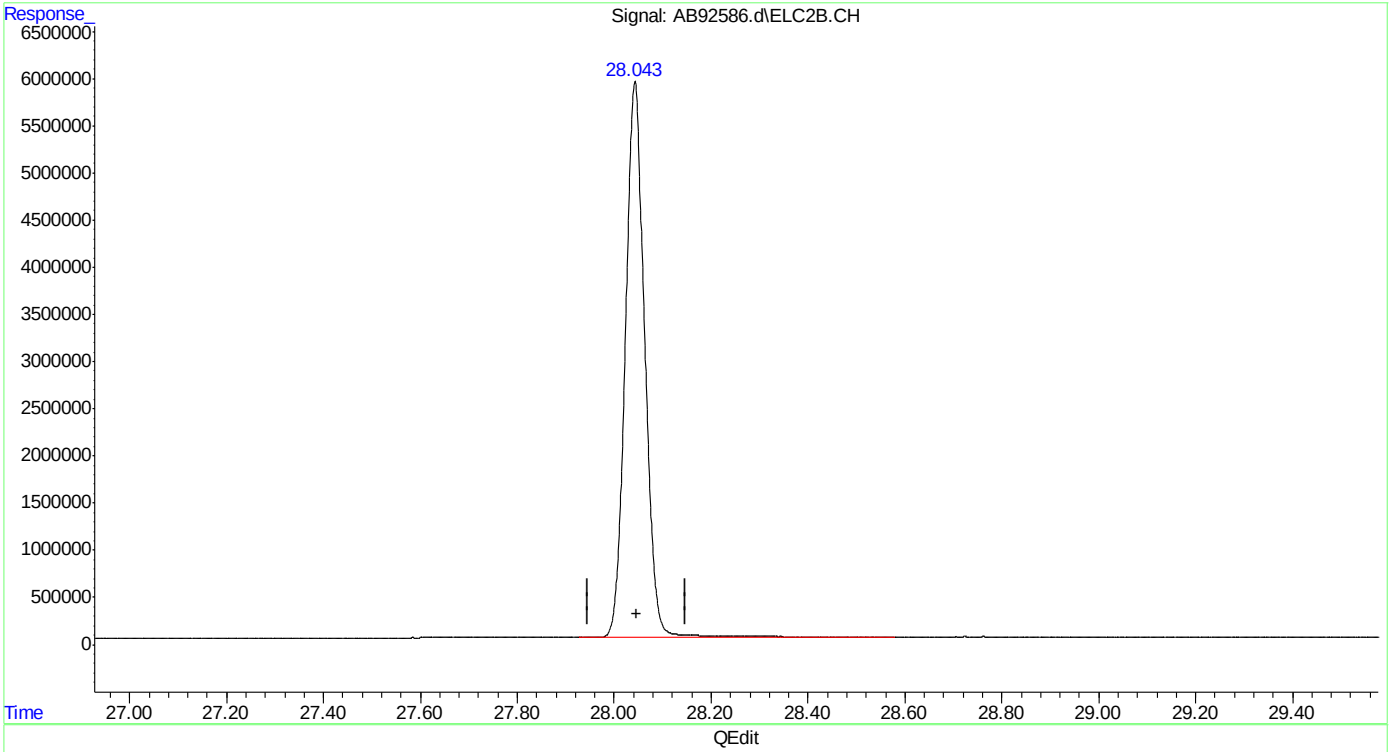
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 09:41:35
Operator  : haleyn
Sample    : ic5058-250
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:11:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(33) naphthalene #2

28.043min 197.827 ppb m

response 164135600

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:13:34 2016

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:10:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	15.167	42874905	96.209 ppb	
Spiked Amount 50.000		Recovery	= 192.42%	
9) s 2,3,4-trifluorotoluene	20.218	38719163	91.231 ppb	
Spiked Amount 50.000		Recovery	= 182.46%	
25) s fluorobenzene #2	15.162	87953233	100.944 ppb	
Spiked Amount 50.000		Recovery	= 201.89%	
27) s 2,3,4-trifluorotoluen...	20.214	46259176	95.565 ppb	m
Spiked Amount 50.000		Recovery	= 191.13%	
Target Compounds				
1) h rt5.5-7	6.370	33420619	86.690 ppb	m
2) h rt7/10	8.710	38500243	87.399 ppb	m
3) mtbe	9.524	20798394	94.064 ppb	
4) h rt10/13	13.890	40723060	81.706 ppb	m
5) benzene	14.665	52977749	95.426 ppb	
8) toluene	19.122	57912641	94.743 ppb	
11) h rt20/25	21.900	55977584	89.473 ppb	m
13) ethylbenzene	22.216	61308787	94.467 ppb	
14) m,p-xylene	22.360	126492488	186.464 ppb	
15) o-xylene	23.164	63851790	94.181 ppb	
16) h decane	24.230	57632960	89.625 ppb	
17) t 1,3,5-trimethylbenzene	24.591	68200557	92.863 ppb	
18) 1,2,4-trimethylbenzene	25.108	63362367	92.432 ppb	
19) h butylcyclohexane	25.263	60198202	84.984 ppb	m
20) naphthalene	28.051	33356972	83.465 ppb	
23) mtbe #2	9.522	49818196	96.580 ppb	m
24) benzene #2	14.662	137692860	99.623 ppb	
26) toluene #2	19.120	117752936	95.659 ppb	
28) ethylbenzene #2	22.213	97082156	98.984 ppb	
29) m,p-xylene #2	22.357	212950656	175.332 ppb	
30) o-xylene #2	23.162	97755578	97.483 ppb	
31) t 1,3,5-trimethylbenzen...	24.588	137643497	95.198 ppb	
32) 1,2,4-trimethylbenzen...	25.105	100143723	95.140 ppb	
33) naphthalene #2	28.047	72366482	85.047 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	100268044	95.080 ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

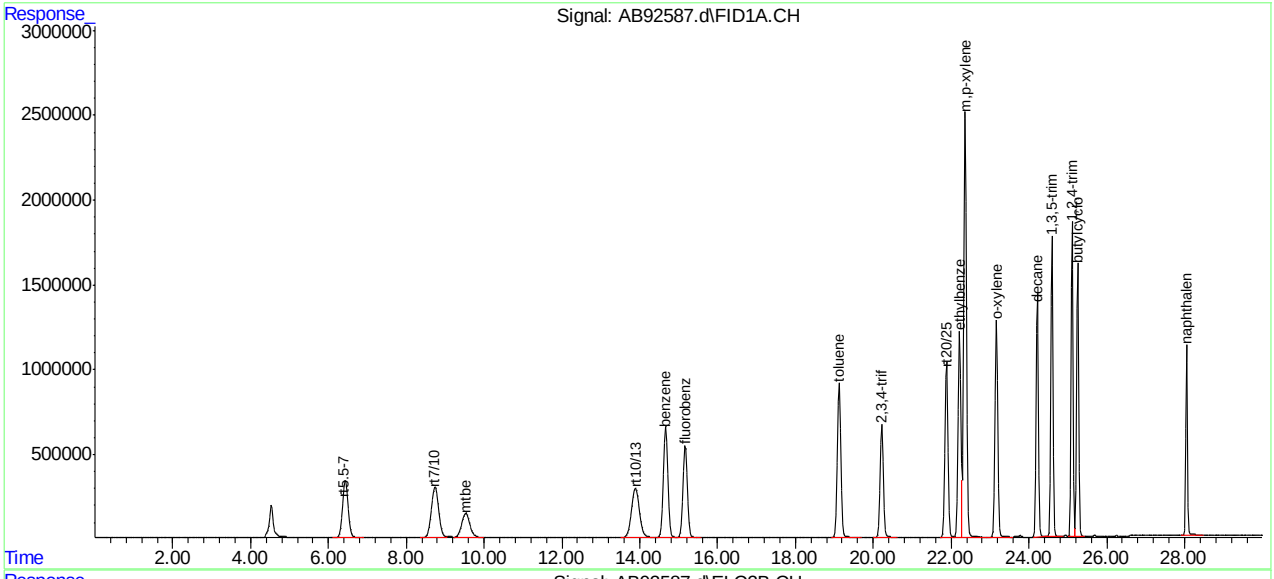
SGS ACCUTEST MC45816A

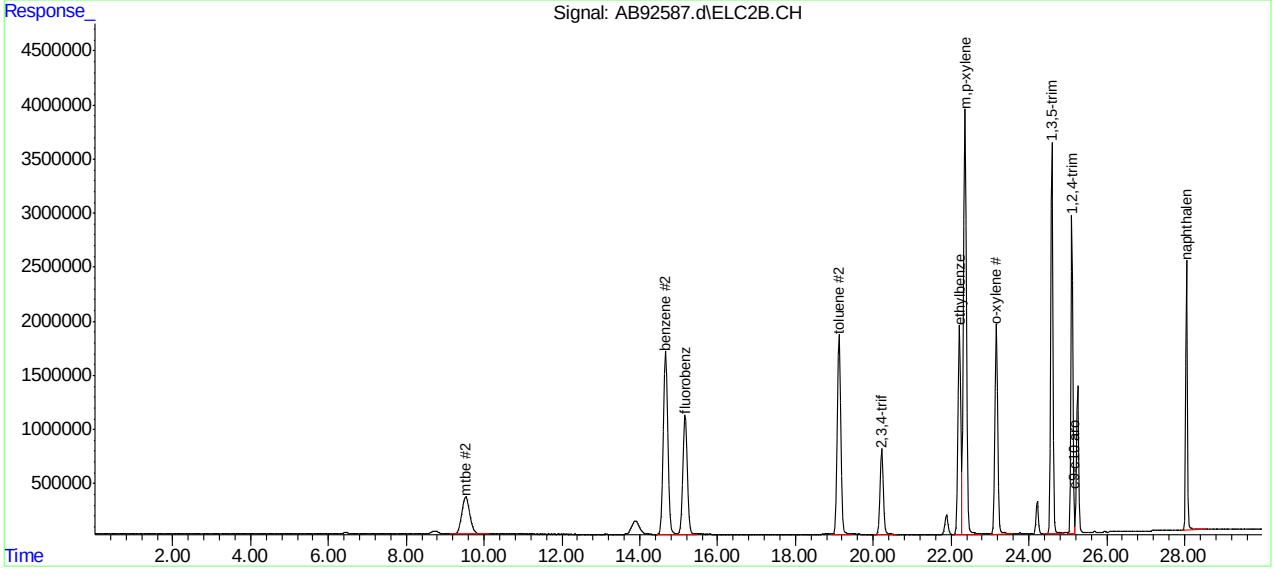
Quantitation Report (QT Reviewed)

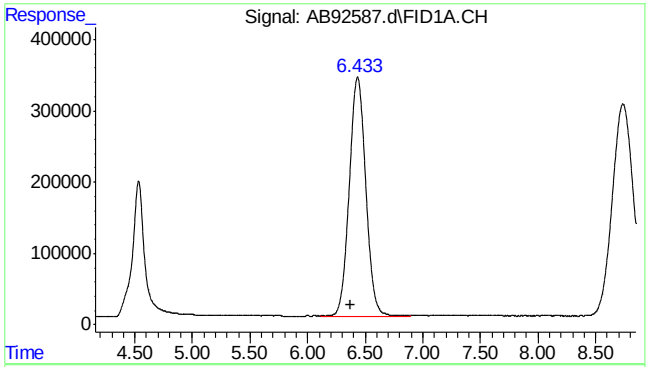
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:10:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

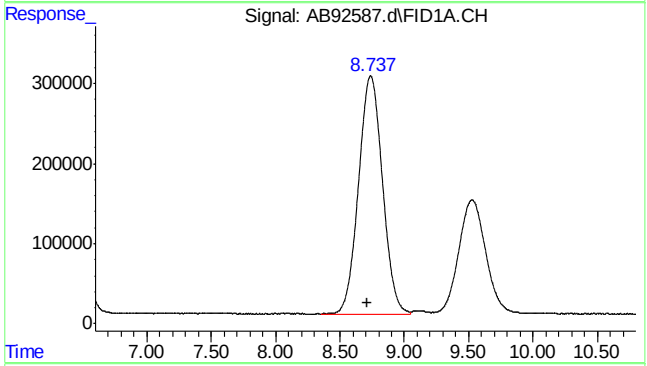






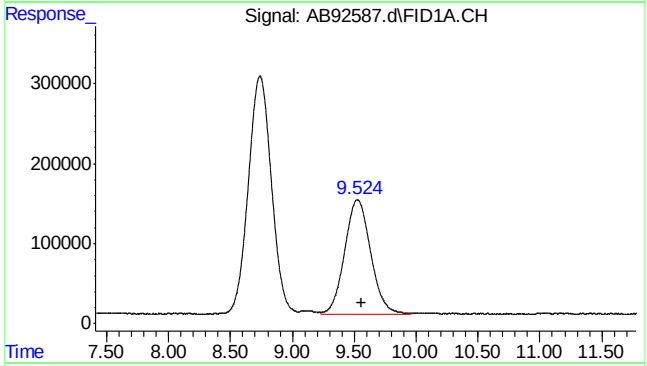
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 33420619
Conc: 86.69 ppb m



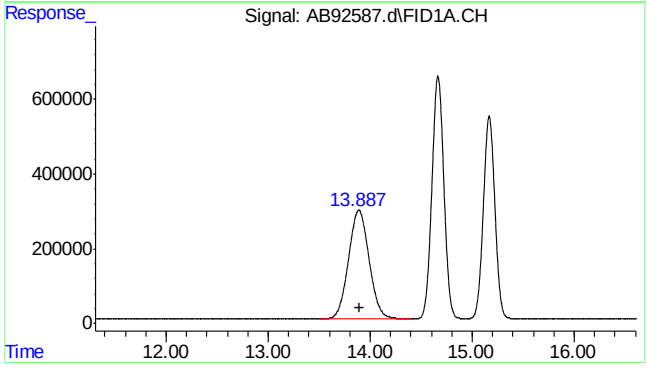
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 38500243
Conc: 87.40 ppb m



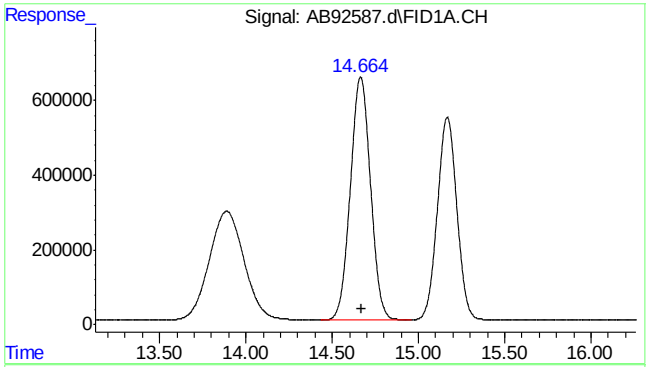
#3 mtbe

R.T.: 9.524 min
Delta R.T.: -0.041 min
Response: 20798394
Conc: 94.06 ppb



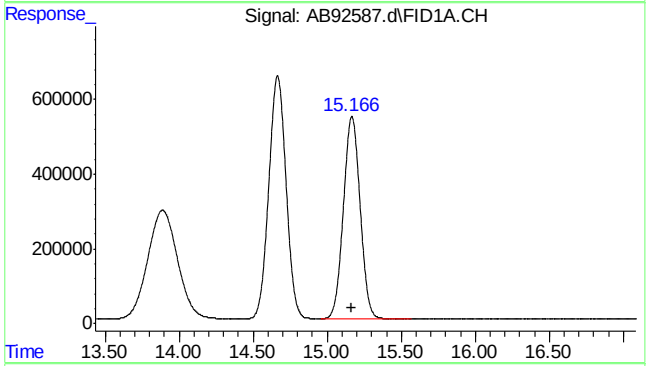
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 40723060
Conc: 81.71 ppb m



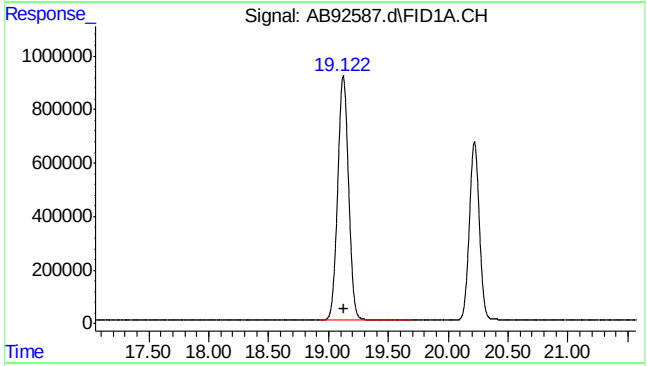
#5 benzene

R.T.: 14.665 min
Delta R.T.: -0.009 min
Response: 52977749
Conc: 95.43 ppb



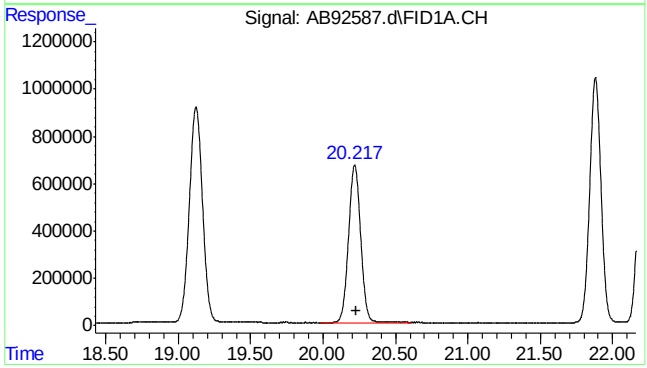
#6 fluorobenzene

R.T.: 15.167 min
Delta R.T.: -0.002 min
Response: 42874905
Conc: 96.21 ppb



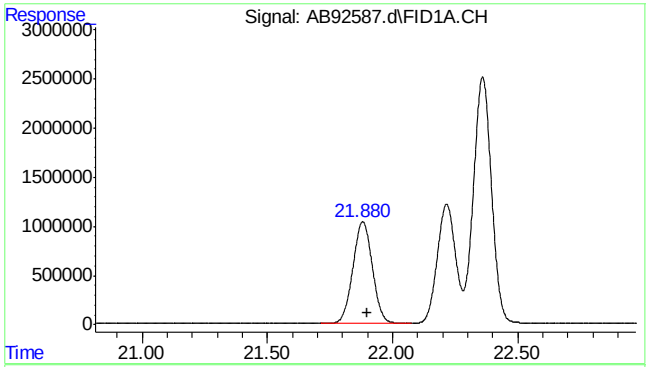
#8 toluene

R.T.: 19.122 min
Delta R.T.: -0.006 min
Response: 57912641
Conc: 94.74 ppb



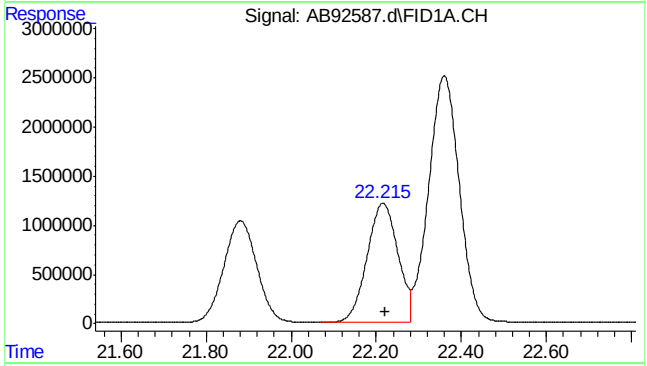
#9 2,3,4-trifluorotoluene

R.T.: 20.218 min
Delta R.T.: -0.014 min
Response: 38719163
Conc: 91.23 ppb



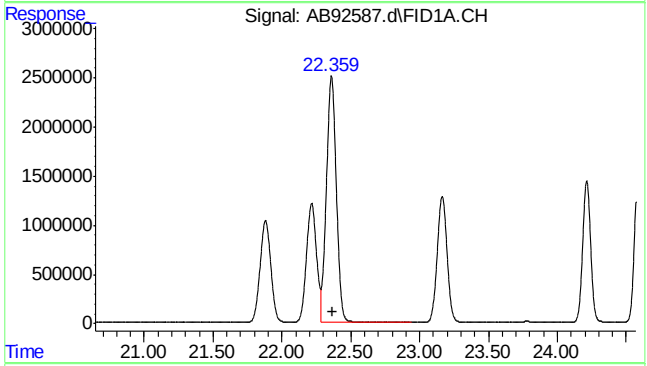
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 55977584
Conc: 89.47 ppb m



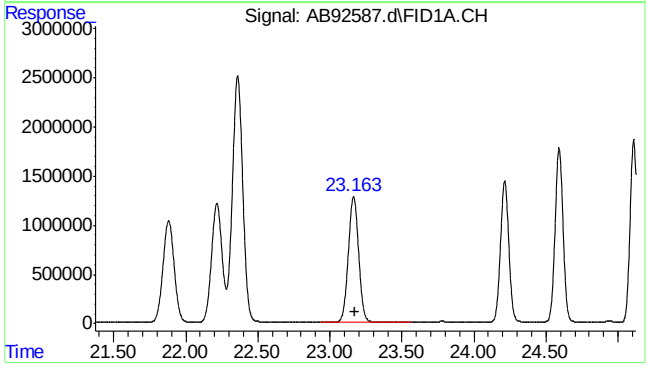
#13 ethylbenzene

R.T.: 22.216 min
Delta R.T.: -0.005 min
Response: 61308787
Conc: 94.47 ppb



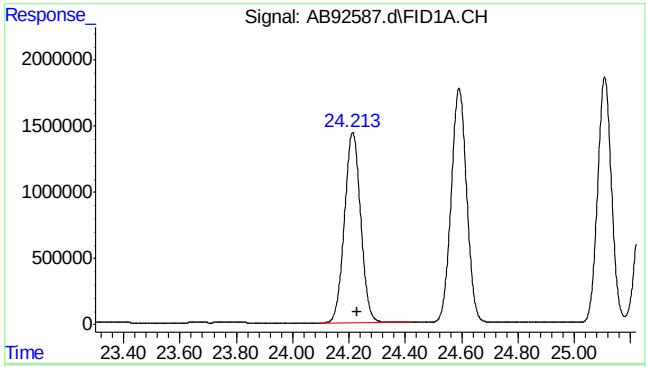
#14 m,p-xylene

R.T.: 22.360 min
Delta R.T.: -0.010 min
Response: 126492488
Conc: 186.46 ppb



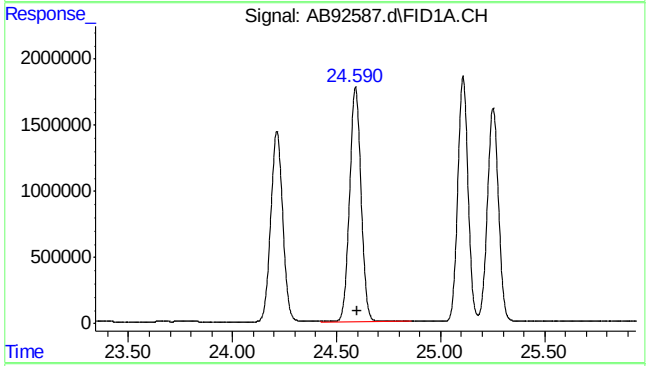
#15 o-xylene

R.T.: 23.164 min
Delta R.T.: -0.011 min
Response: 63851790
Conc: 94.18 ppb



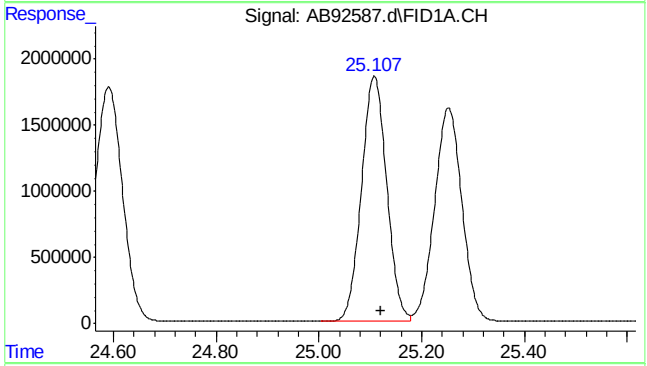
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 57632960
Conc: 89.63 ppb



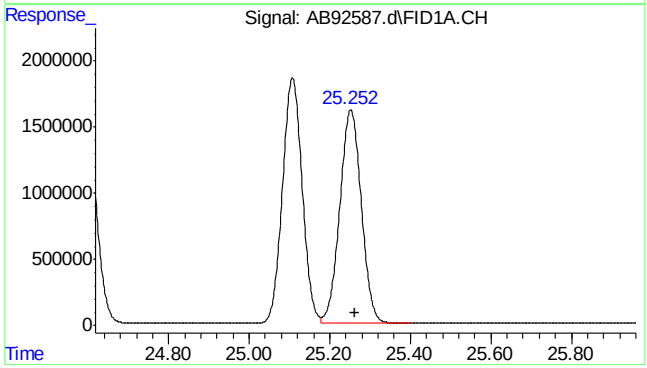
#17 1,3,5-trimethylbenzene

R.T.: 24.591 min
Delta R.T.: -0.010 min
Response: 68200557
Conc: 92.86 ppb



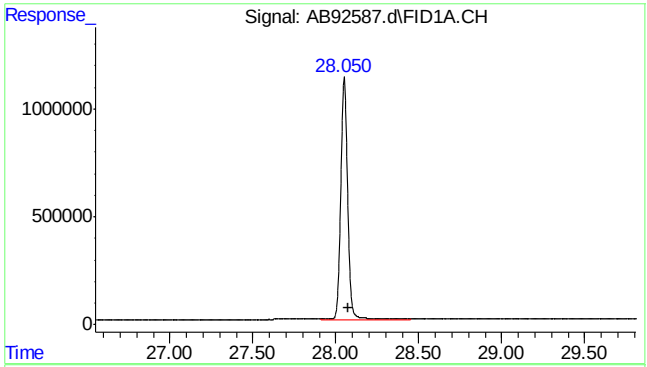
#18 1,2,4-trimethylbenzene

R.T.: 25.108 min
Delta R.T.: -0.013 min
Response: 63362367
Conc: 92.43 ppb



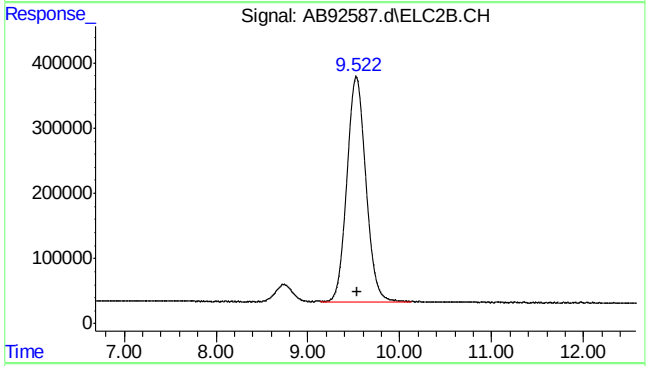
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 60198202
Conc: 84.98 ppb m



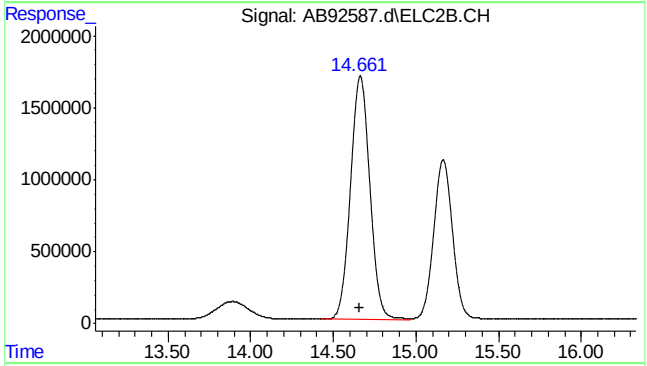
#20 naphthalene

R.T.: 28.051 min
Delta R.T.: -0.026 min
Response: 33356972
Conc: 83.46 ppb



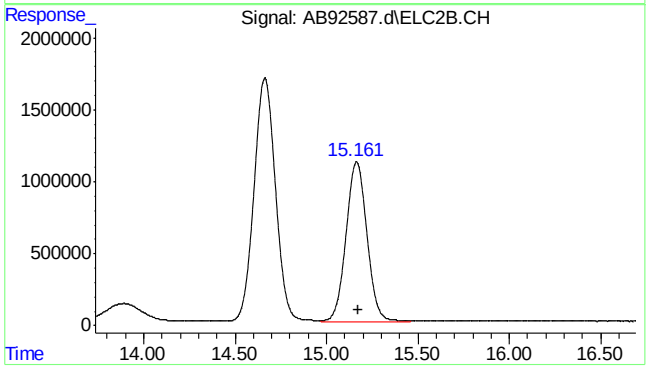
#23 mtbe #2

R.T.: 9.522 min
Delta R.T.: -0.018 min
Response: 49818196
Conc: 96.58 ppb m



#24 benzene #2

R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 137692860
Conc: 99.62 ppb



#25 fluorobenzene #2

R.T.: 15.162 min
Delta R.T.: -0.012 min
Response: 87953233
Conc: 100.94 ppb

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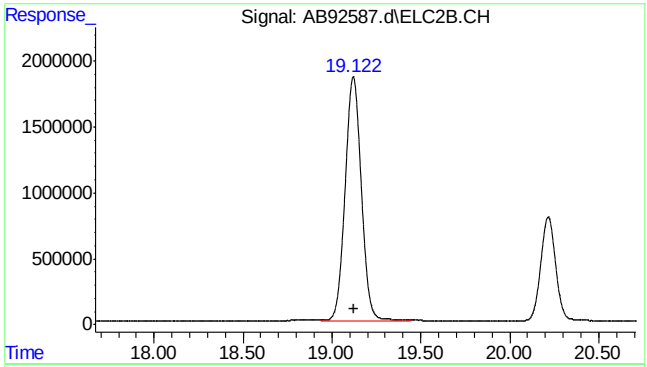
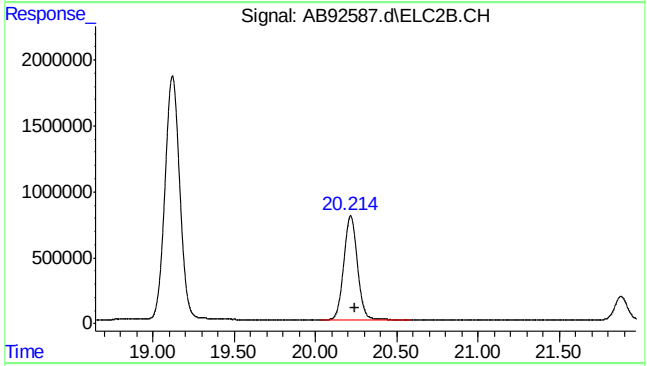


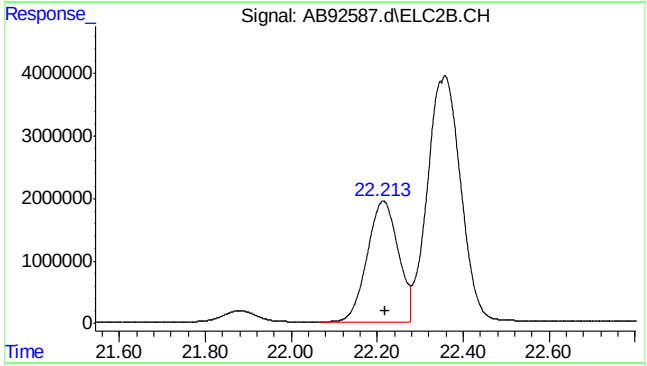
#26 toluene #2

R.T.: 19.120 min
Delta R.T.: -0.006 min
Response: 117752936
Conc: 95.66 ppb



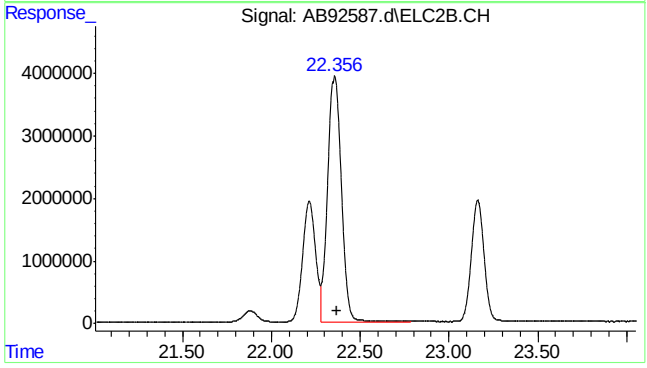
#27 2,3,4-trifluorotoluene #2

R.T.: 20.214 min
Delta R.T.: -0.027 min
Response: 46259176
Conc: 95.56 ppb m



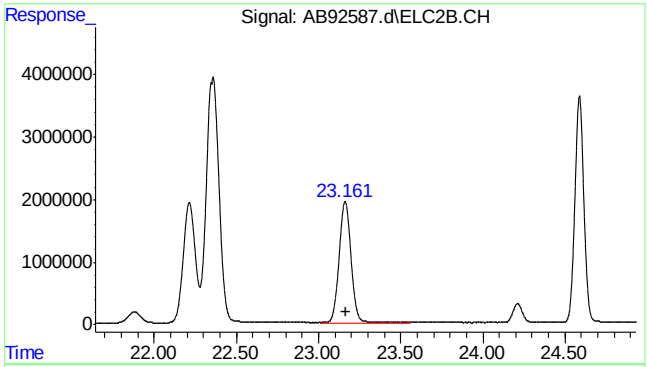
#28 ethylbenzene #2

R.T.: 22.213 min
Delta R.T.: -0.006 min
Response: 97082156
Conc: 98.98 ppb



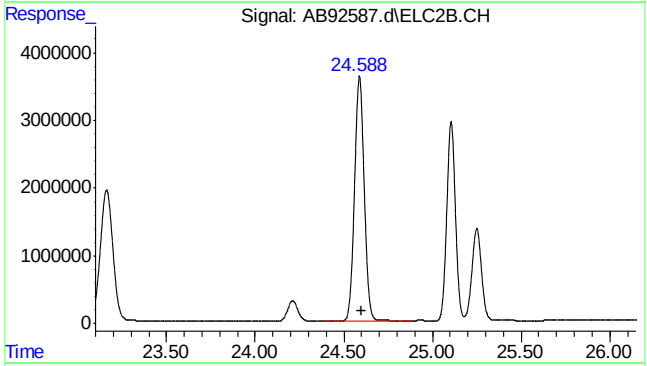
#29 m,p-xylene #2

R.T.: 22.357 min
Delta R.T.: -0.012 min
Response: 212950656
Conc: 175.33 ppb



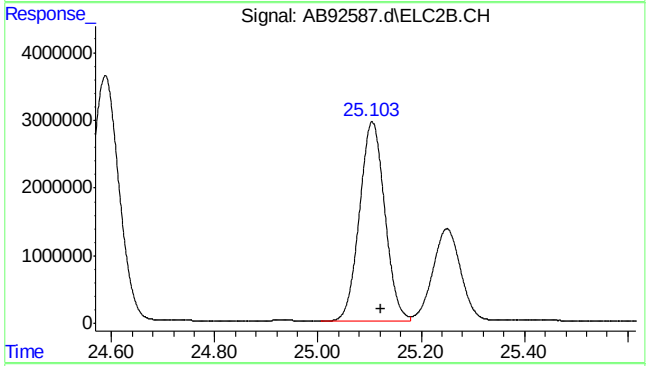
#30 o-xylene #2

R.T.: 23.162 min
Delta R.T.: -0.008 min
Response: 97755578
Conc: 97.48 ppb



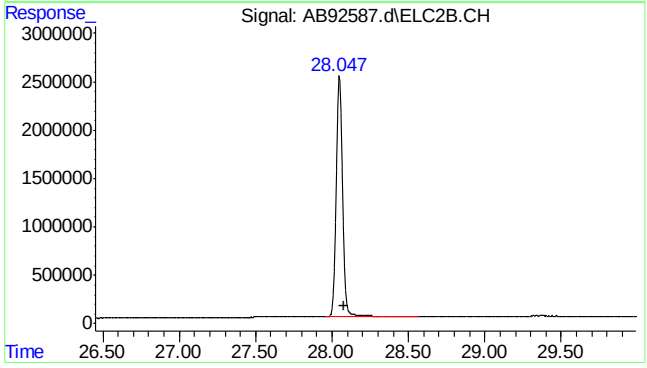
#31 1,3,5-trimethylbenzene #2

R.T.: 24.588 min
Delta R.T.: -0.011 min
Response: 137643497
Conc: 95.20 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.105 min
Delta R.T.: -0.016 min
Response: 100143723
Conc: 95.14 ppb



#33 naphthalene #2

R.T.: 28.047 min
Delta R.T.: -0.028 min
Response: 72366482
Conc: 85.05 ppb m

7.5.4

7

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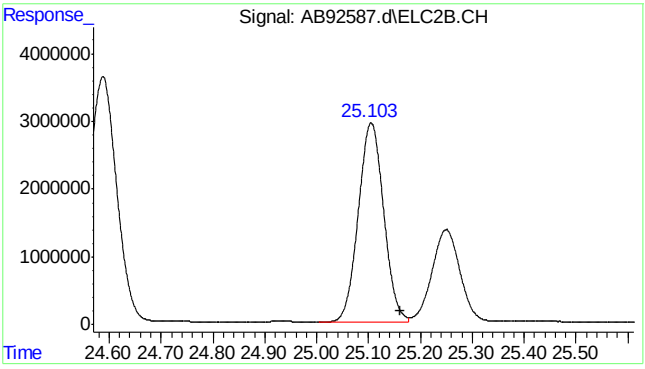



```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response: 100268044
      Conc:  95.08 ppb m
```

7.5.4

7

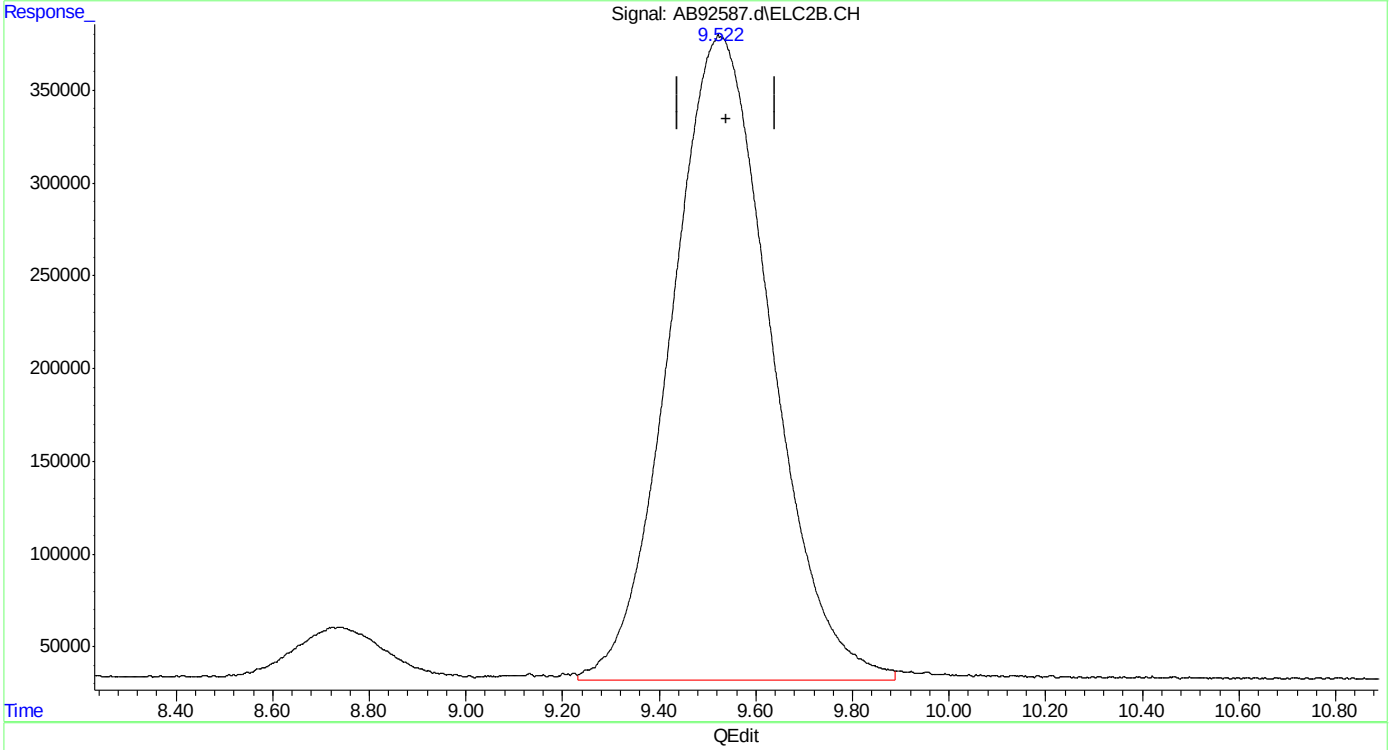
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.522min 96.975 ppb
response 50022247

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:09:01 2016

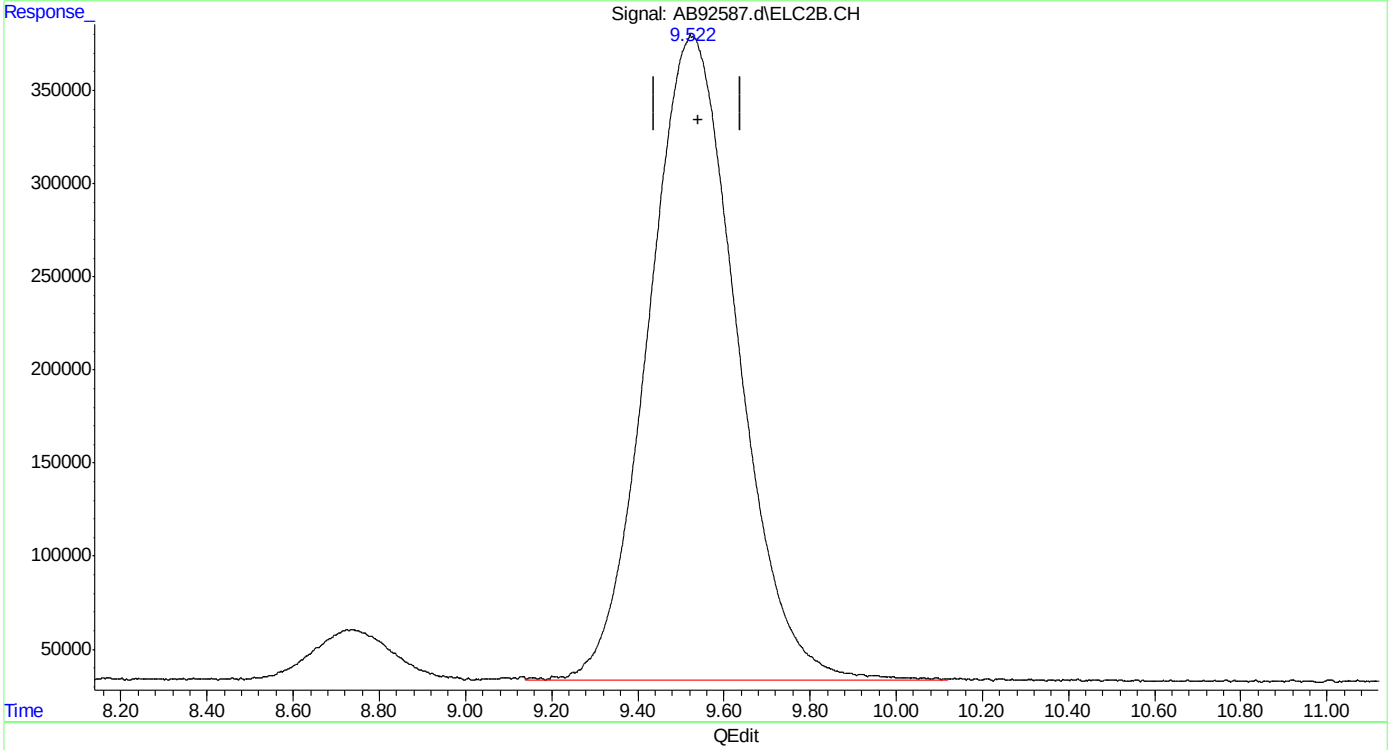
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.522min 96.580 ppb m
response 49818196

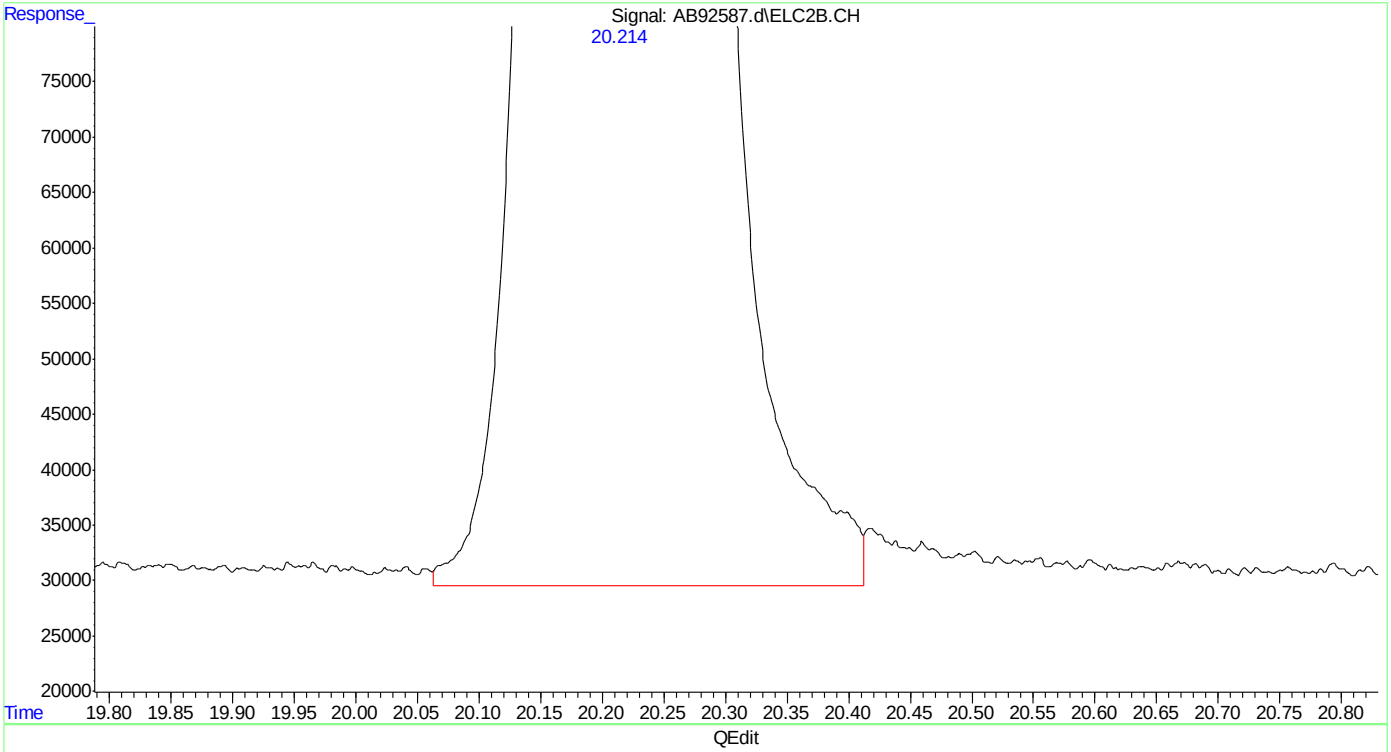
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
20.215min 94.913 ppb
response 45943479

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:10:10 2016

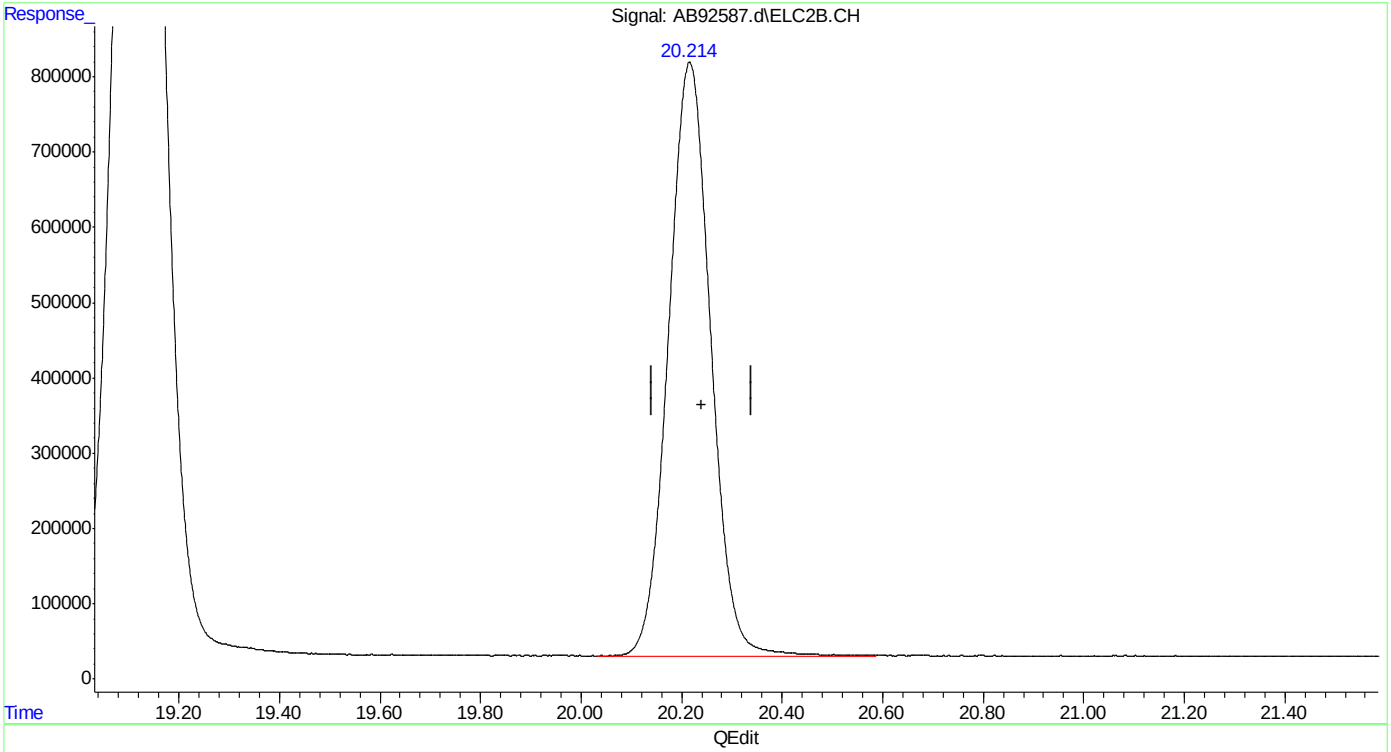
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
20.214min 95.565 ppb m
response 46259176

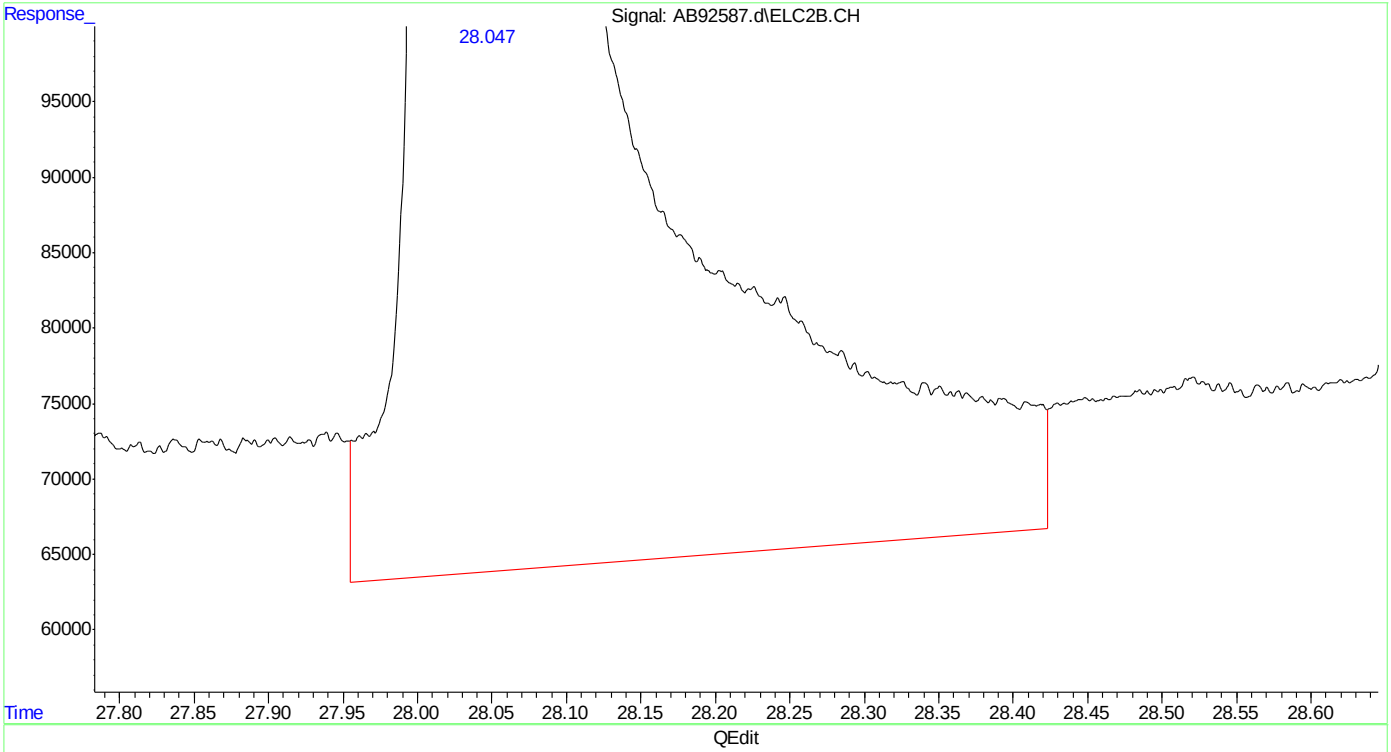
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 10:18:42
Operator  : haleyn
Sample    : ic5058-100
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(33) naphthalene #2

28.048min 87.471 ppb

response 74428937

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:10:31 2016 Page: 1

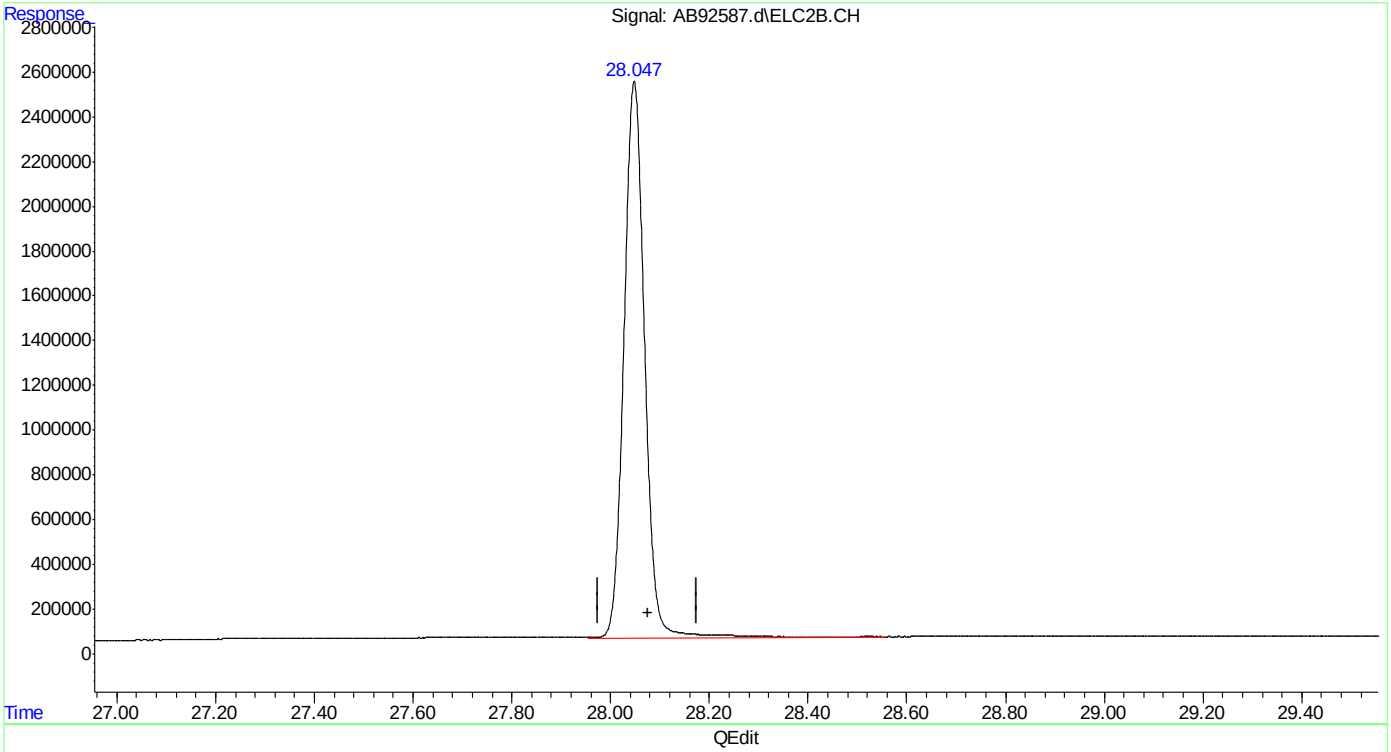
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.047min 85.047 ppb m
response 72366482

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:10:36 2016

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:32:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	15.165	22113709	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
9) s 2,3,4-trifluorotoluene	20.217	20310808	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
25) s fluorobenzene #2	15.162	44830746	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
27) s 2,3,4-trifluorotoluen...	20.215	23579401	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
Target Compounds					
1) h rt5.5-7	6.370	17341856	50.022	ppb	m
2) h rt7/10	8.710	19931281	50.032	ppb	m
3) mtbe	9.525	10910216	50.000	ppb	
4) h rt10/13	13.890	22107974	50.003	ppb	m
5) benzene	14.662	27232844	50.000	ppb	
8) toluene	19.121	30034928	50.000	ppb	
11) h rt20/25	21.900	28560611	50.004	ppb	m
13) ethylbenzene	22.215	31877435	50.000	ppb	
14) m,p-xylene	22.359	65853459	100.000	ppb	
15) o-xylene	23.163	33195129	50.000	ppb	
16) h decane	24.230	29380393	50.000	ppb	
17) t 1,3,5-trimethylbenzene	24.590	35683239	50.000	ppb	
18) 1,2,4-trimethylbenzene	25.108	33124851	50.000	ppb	
19) h butylcyclohexane	25.263	30974569	50.024	ppb	m
20) naphthalene	28.051	17061887	50.025	ppb	m
23) mtbe #2	9.531	25843788	50.076	ppb	m
24) benzene #2	14.662	70338009	50.000	ppb	
26) toluene #2	19.118	60419568	50.000	ppb	
28) ethylbenzene #2	22.213	49929639	50.000	ppb	
29) m,p-xylene #2	22.356	120749462	100.000	ppb	
30) o-xylene #2	23.161	50672944	50.000	ppb	
31) t 1,3,5-trimethylbenzen...	24.588	73024638	50.000	ppb	
32) 1,2,4-trimethylbenzen...	25.105	52288916	50.000	ppb	
33) naphthalene #2	28.049	37670302	50.002	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	52491156	49.995	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

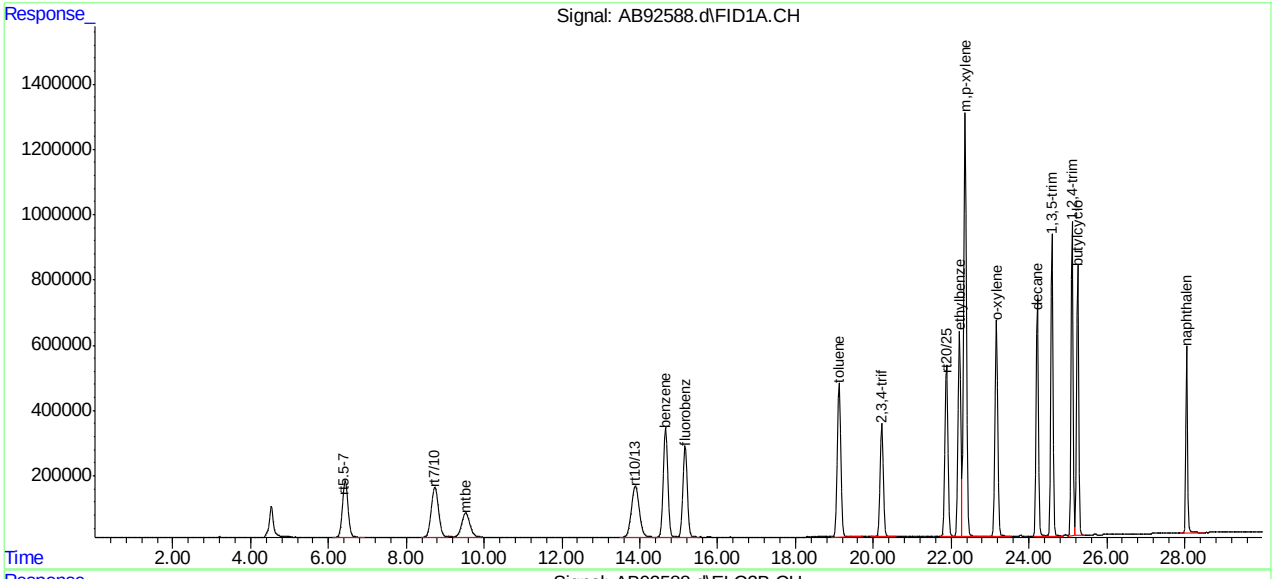
SGS ACCUTEST MC45816A

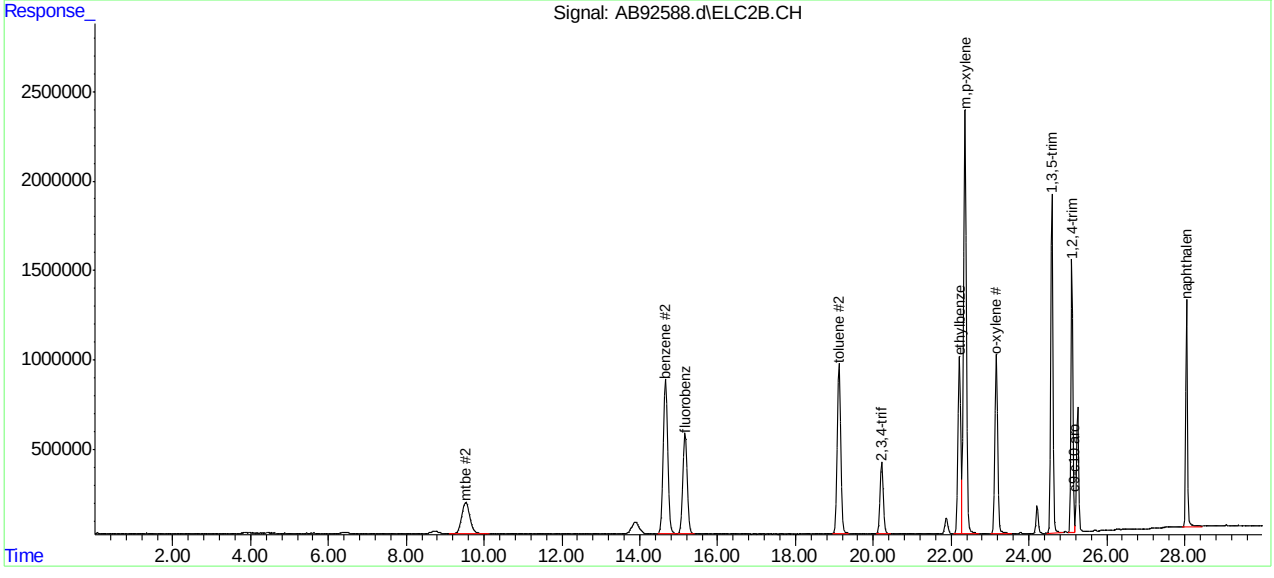
Quantitation Report (QT Reviewed)

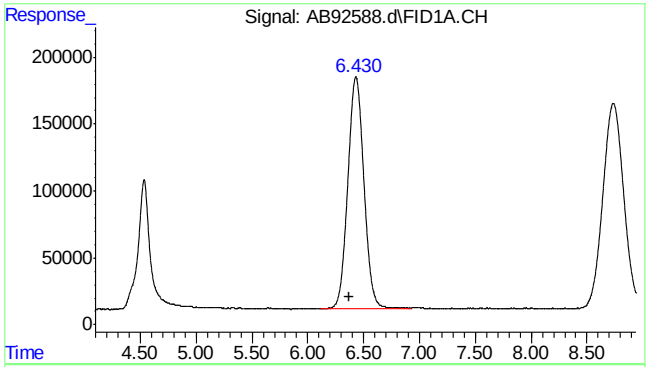
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:32:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

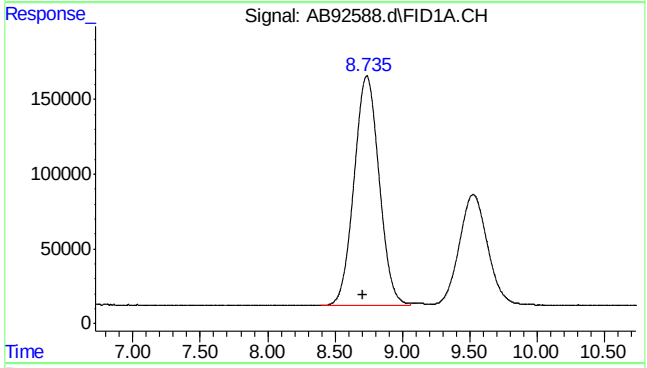






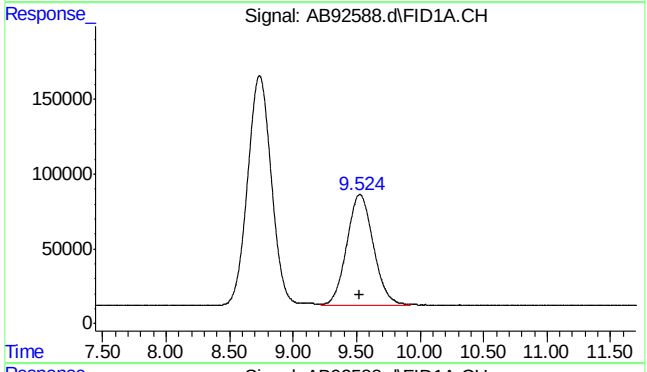
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 17341856
Conc: 50.02 ppb m



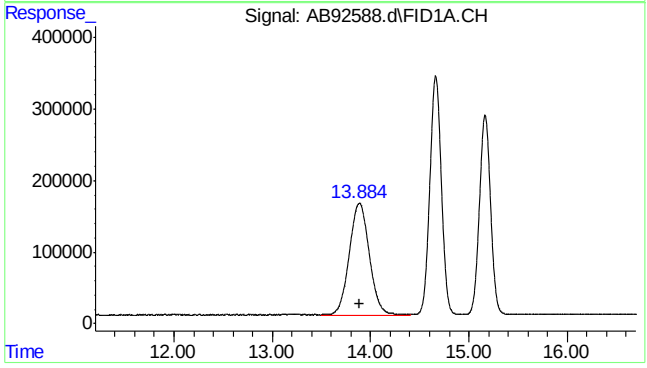
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 19931281
Conc: 50.03 ppb m



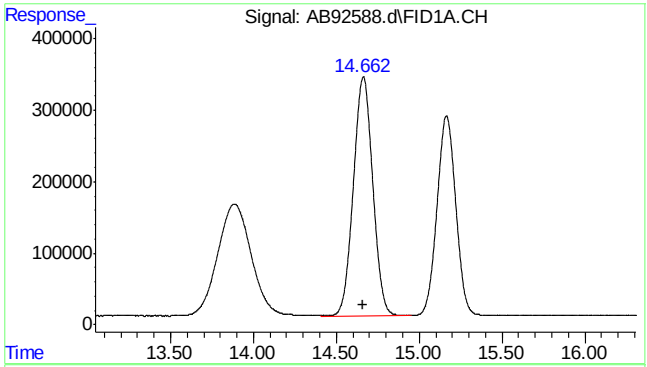
#3 mtbe

R.T.: 9.525 min
Delta R.T.: 0.000 min
Response: 10910216
Conc: 50.00 ppb



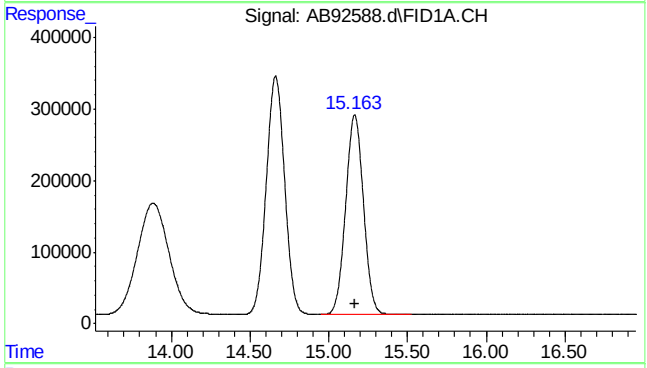
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 22107974
Conc: 50.00 ppb m



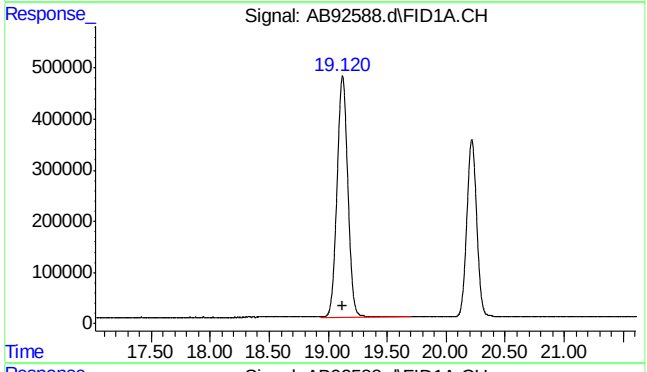
#5 benzene

R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 27232844
Conc: 50.00 ppb



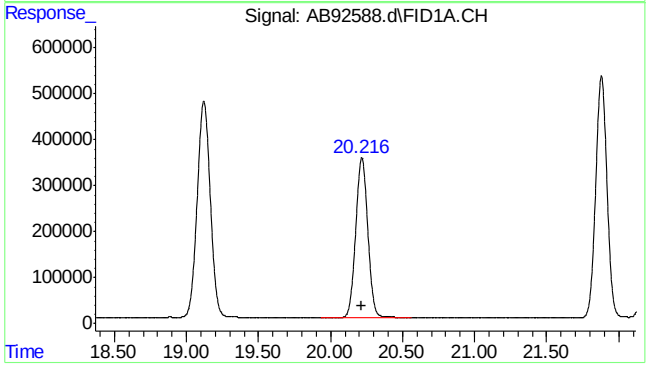
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: 0.000 min
Response: 22113709
Conc: 50.00 ppb



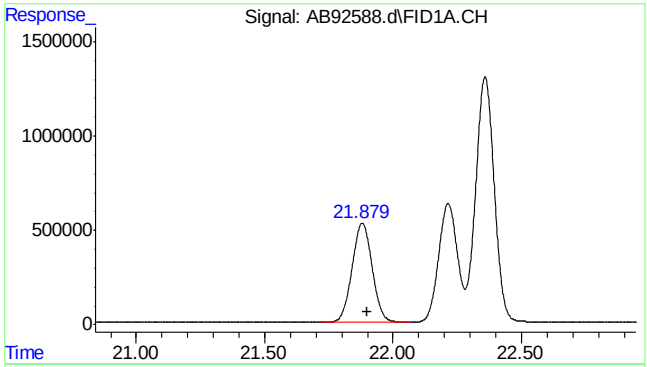
#8 toluene

R.T.: 19.121 min
Delta R.T.: 0.000 min
Response: 30034928
Conc: 50.00 ppb



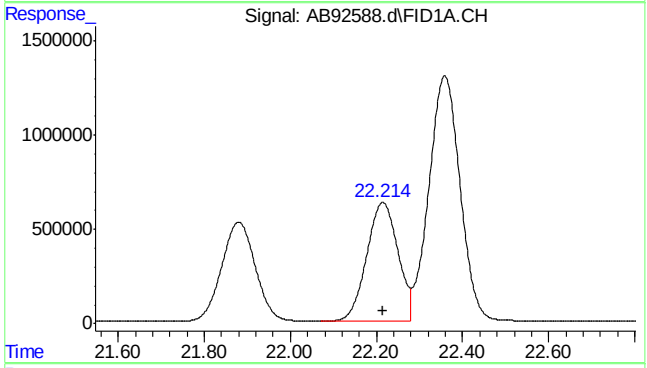
#9 2,3,4-trifluorotoluene

R.T.: 20.217 min
Delta R.T.: 0.000 min
Response: 20310808
Conc: 50.00 ppb



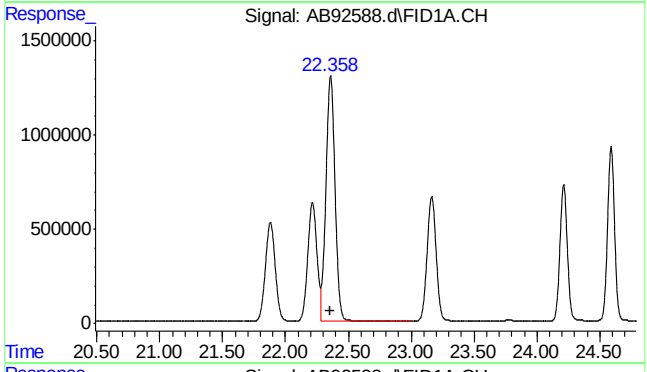
#11 rt20/25

```
      R.T.:   21.900 min
Delta R.T.:    0.000 min
  Response:  28560611
      Conc:  50.00 ppb m
```



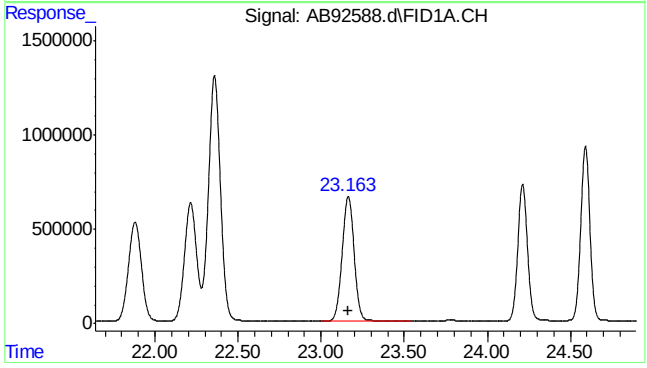
#13 ethylbenzene

```
      R.T.:   22.215 min
Delta R.T.:    0.000 min
  Response:  31877435
      Conc:  50.00 ppb
```



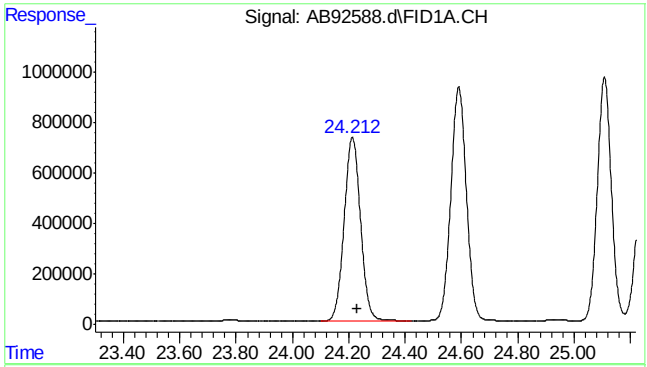
#14 m,p-xylene

```
      R.T.:   22.359 min
Delta R.T.:    0.000 min
  Response:  65853459
      Conc: 100.00 ppb
```



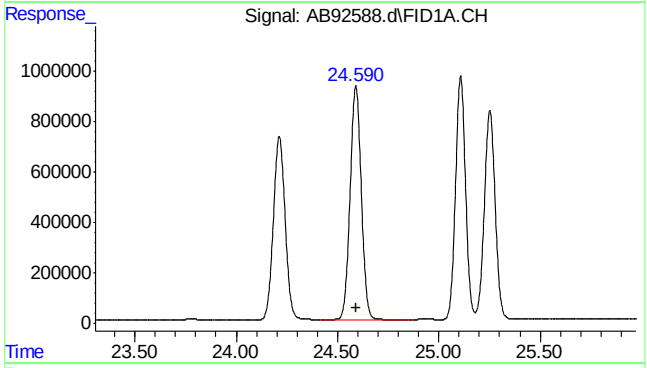
#15 o-xylene

```
      R.T.:   23.163 min
Delta R.T.:    0.000 min
  Response:  33195129
      Conc:  50.00 ppb
```



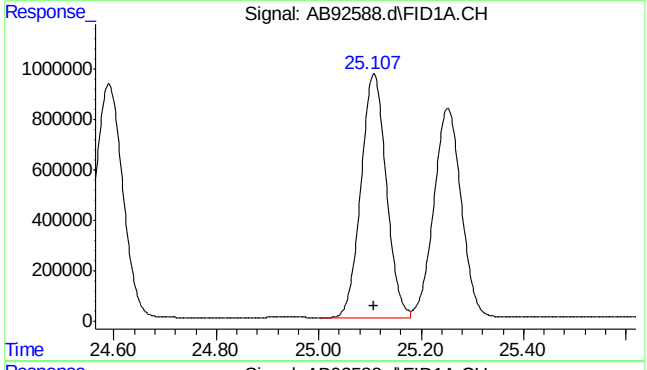
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 29380393
Conc: 50.00 ppb



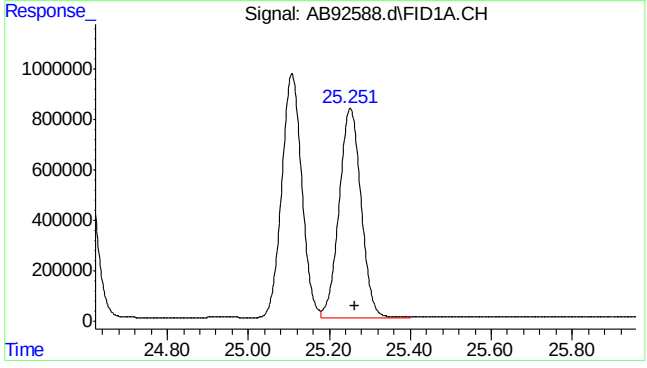
#17 1,3,5-trimethylbenzene

R.T.: 24.590 min
Delta R.T.: 0.000 min
Response: 35683239
Conc: 50.00 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.108 min
Delta R.T.: 0.000 min
Response: 33124851
Conc: 50.00 ppb



#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 30974569
Conc: 50.02 ppb m

7.5.5

7

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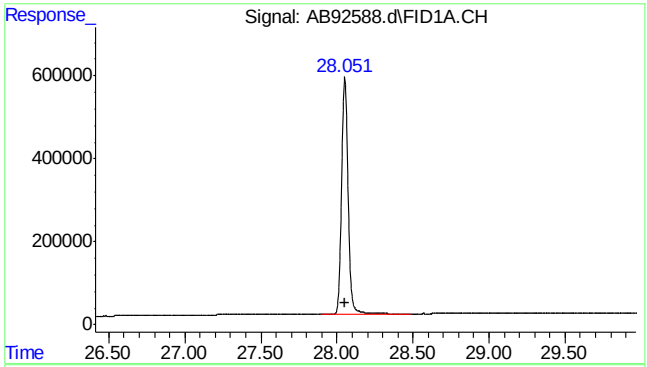
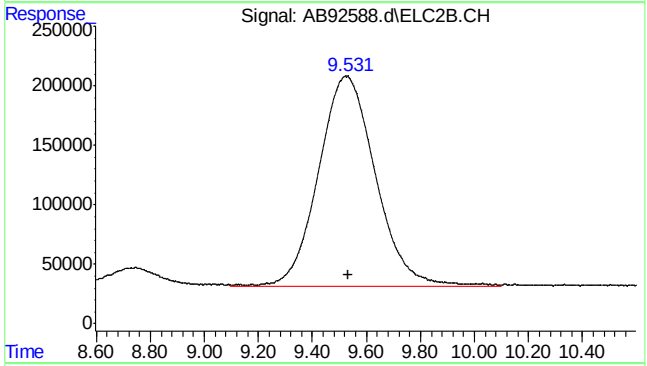


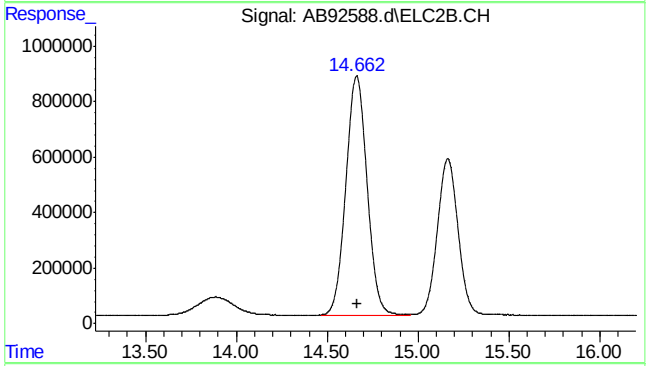
#20 naphthalene

R.T.: 28.051 min
Delta R.T.: 0.000 min
Response: 17061887
Conc: 50.03 ppb m



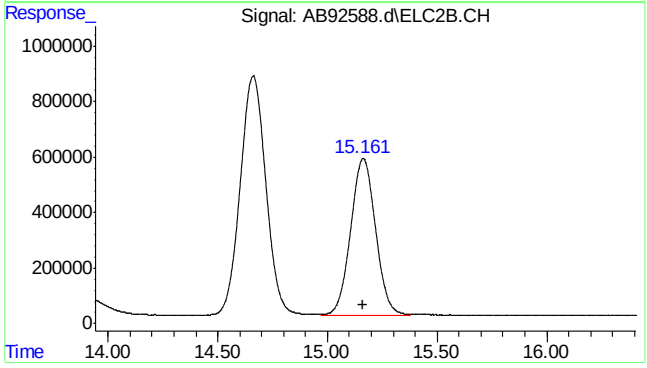
#23 mtbe #2

R.T.: 9.531 min
Delta R.T.: 0.000 min
Response: 25843788
Conc: 50.08 ppb m



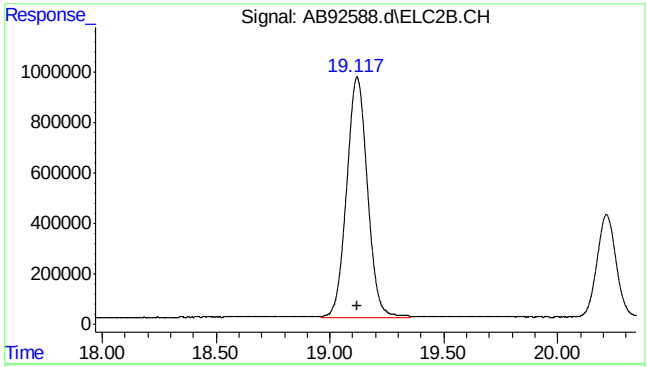
#24 benzene #2

R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 70338009
Conc: 50.00 ppb



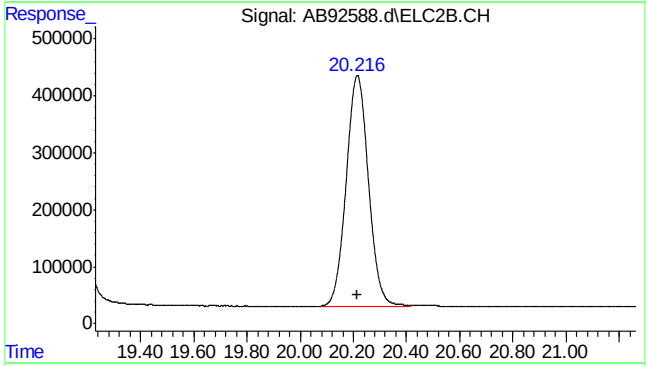
#25 fluorobenzene #2

R.T.: 15.162 min
Delta R.T.: 0.000 min
Response: 44830746
Conc: 50.00 ppb



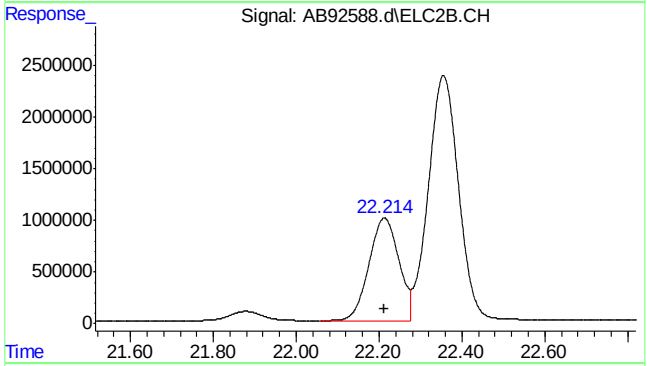
#26 toluene #2

R.T.: 19.118 min
Delta R.T.: 0.000 min
Response: 60419568
Conc: 50.00 ppb



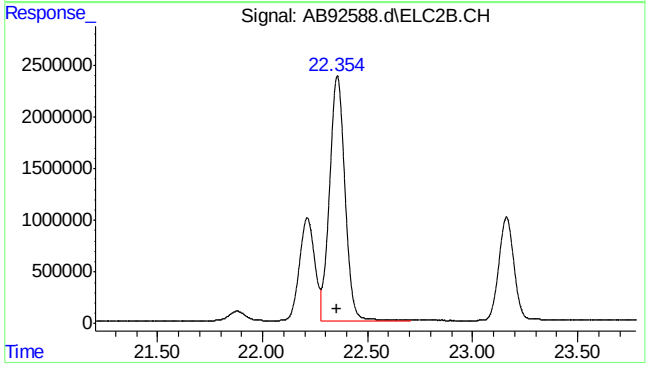
#27 2,3,4-trifluorotoluene #2

R.T.: 20.215 min
Delta R.T.: 0.000 min
Response: 23579401
Conc: 50.00 ppb



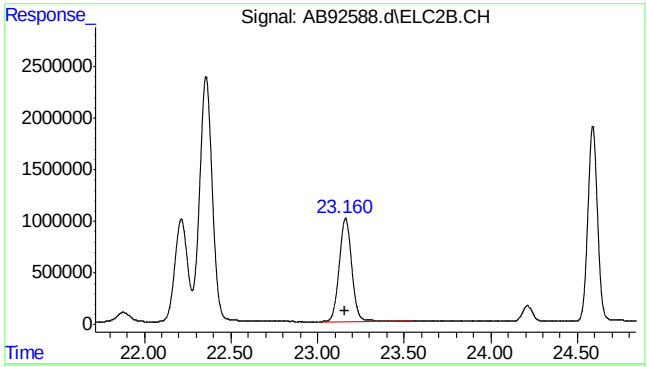
#28 ethylbenzene #2

R.T.: 22.213 min
Delta R.T.: 0.000 min
Response: 49929639
Conc: 50.00 ppb



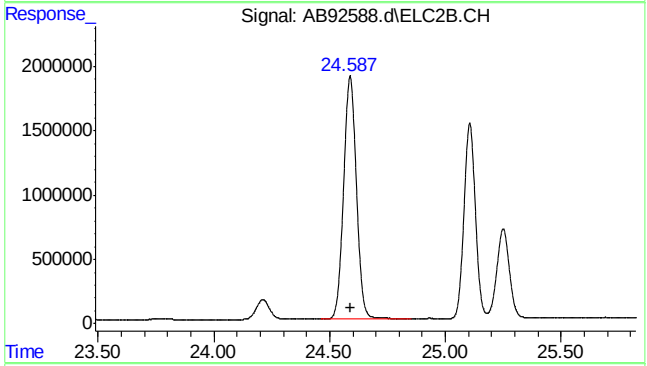
#29 m,p-xylene #2

R.T.: 22.356 min
Delta R.T.: 0.000 min
Response: 120749462
Conc: 100.00 ppb



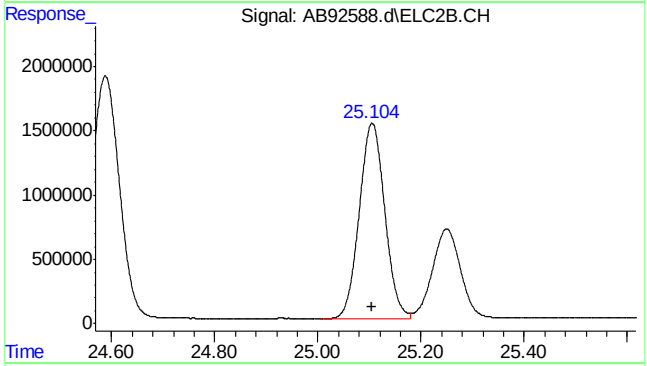
#30 o-xylene #2

R.T.: 23.161 min
Delta R.T.: 0.000 min
Response: 50672944
Conc: 50.00 ppb



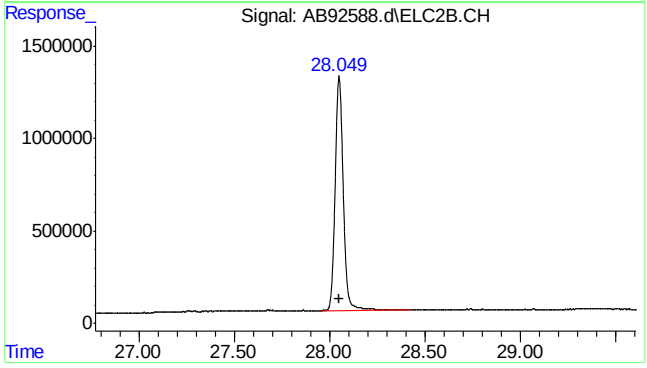
#31 1,3,5-trimethylbenzene #2

R.T.: 24.588 min
Delta R.T.: 0.000 min
Response: 73024638
Conc: 50.00 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.105 min
Delta R.T.: 0.000 min
Response: 52288916
Conc: 50.00 ppb



#33 naphthalene #2

R.T.: 28.049 min
Delta R.T.: 0.000 min
Response: 37670302
Conc: 50.00 ppb m

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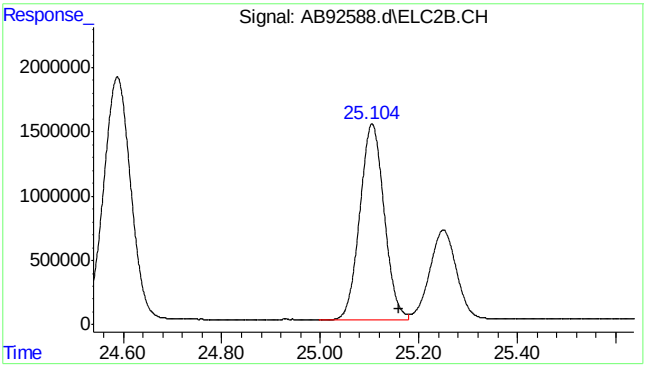


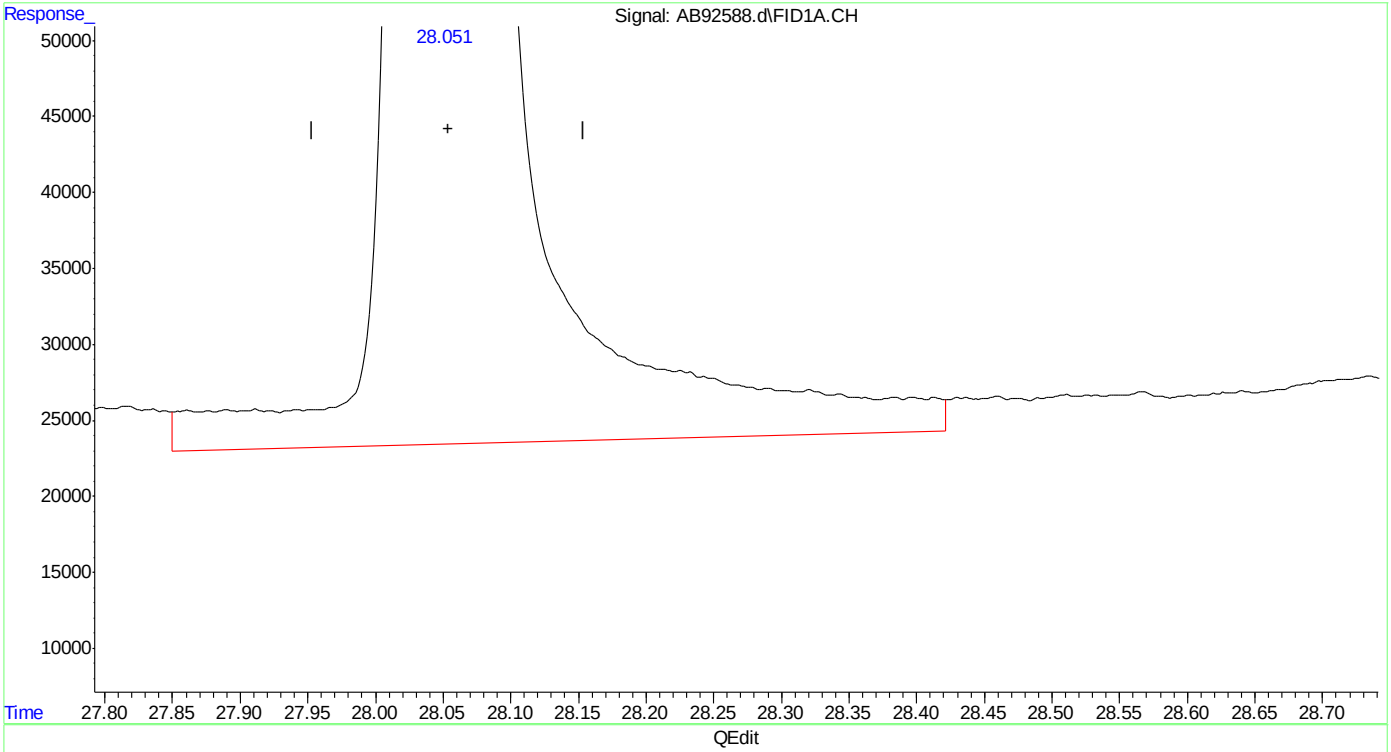

```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response:  52491156
      Conc:  49.99 ppb m
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.052min 52.879 ppb
response 17760539

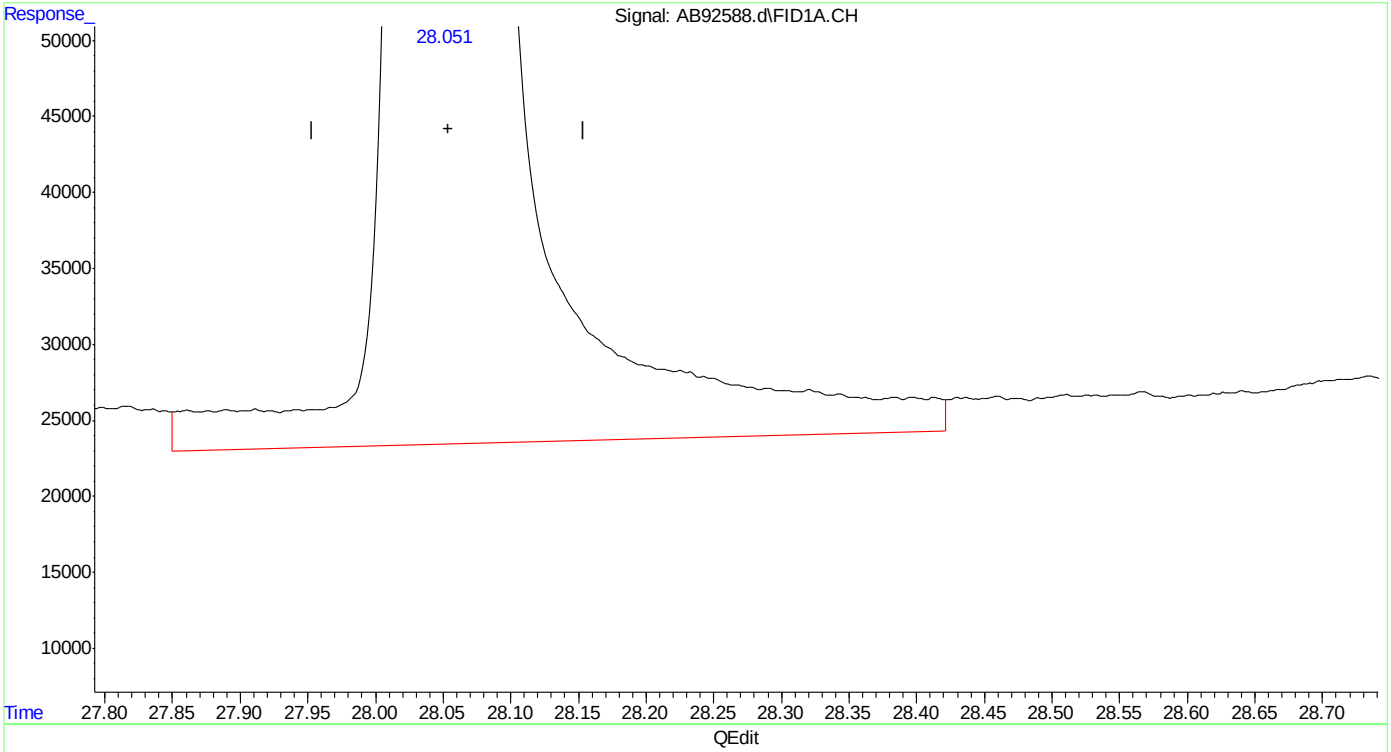
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.052min 52.879 ppb
response 17760539

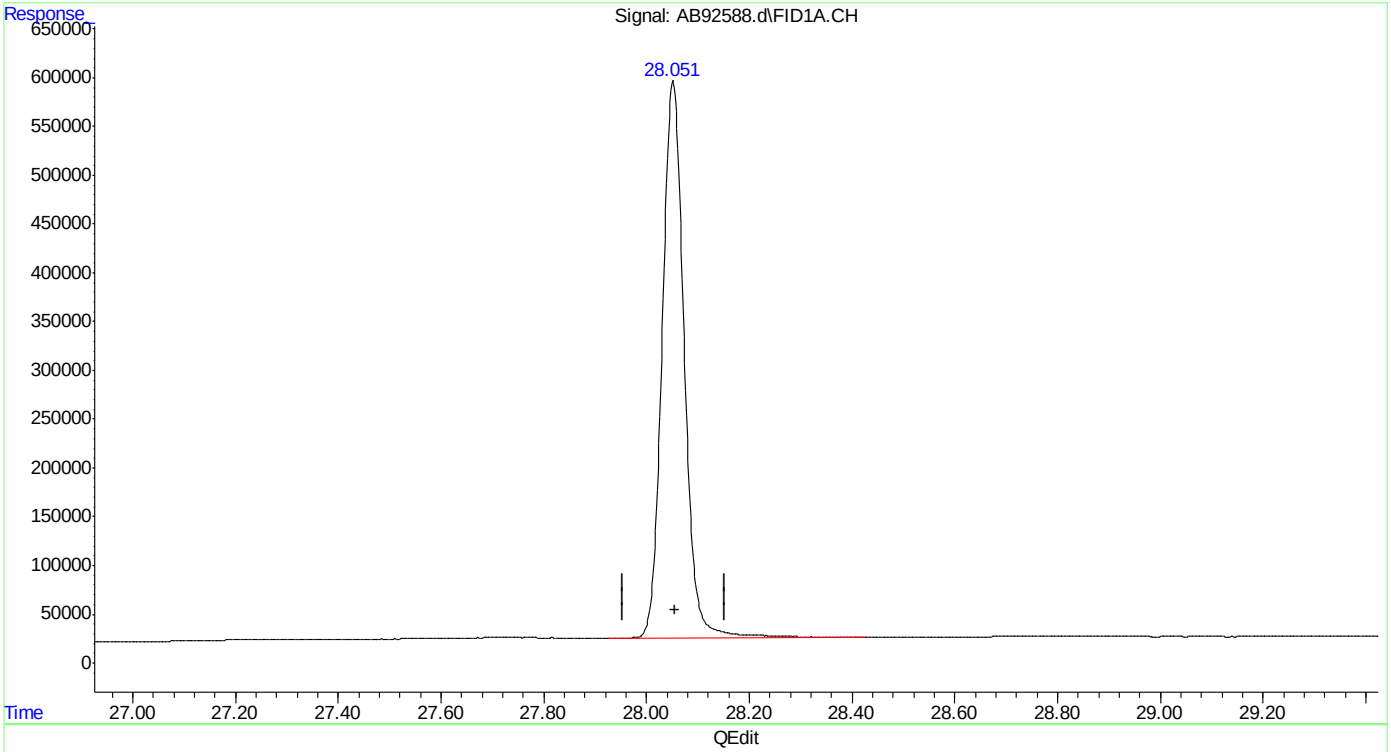
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

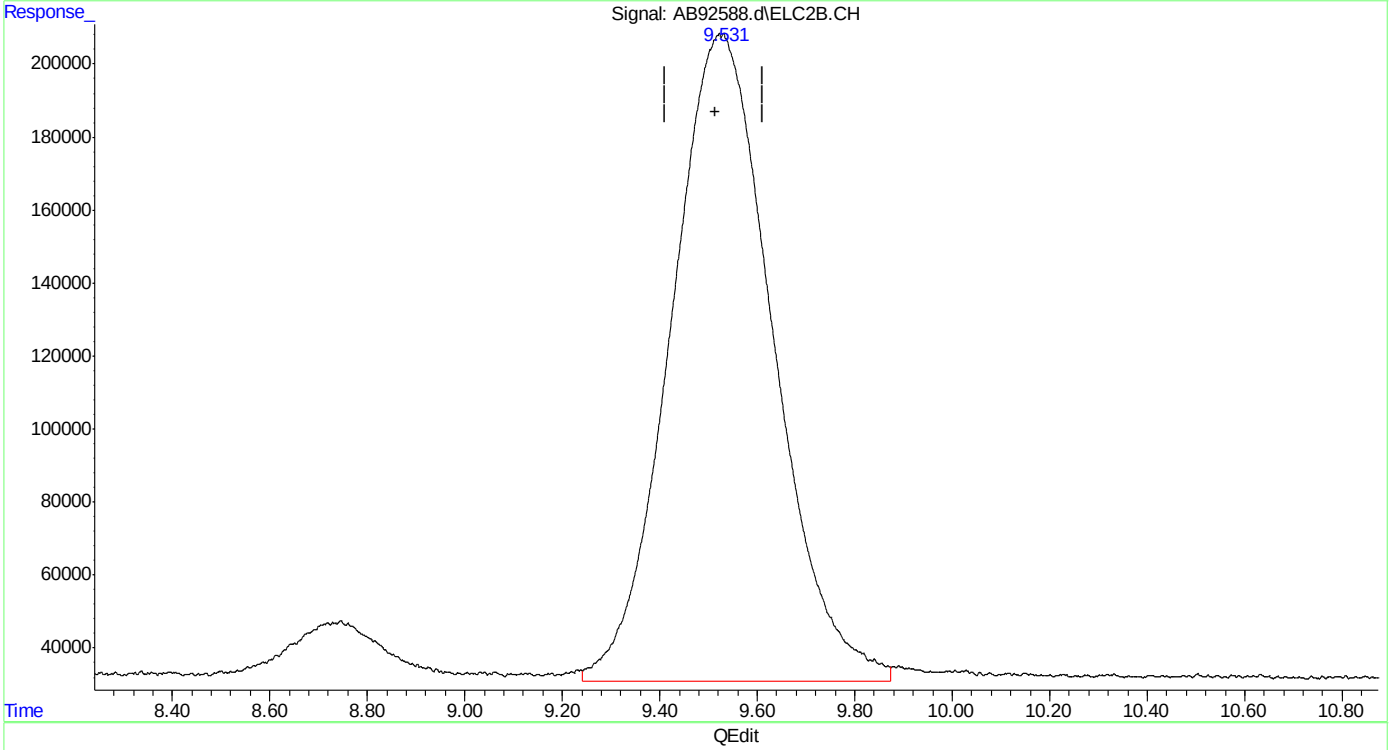


(20) naphthalene
28.051min 50.773 ppb m
response 17053298

(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 10:55:55
Operator  : haleyn
Sample    : icc5058-50
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(23) mtbe #2

9.522min 50.415 ppb

response 25829396

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 11:27:44 2016 Page: 1

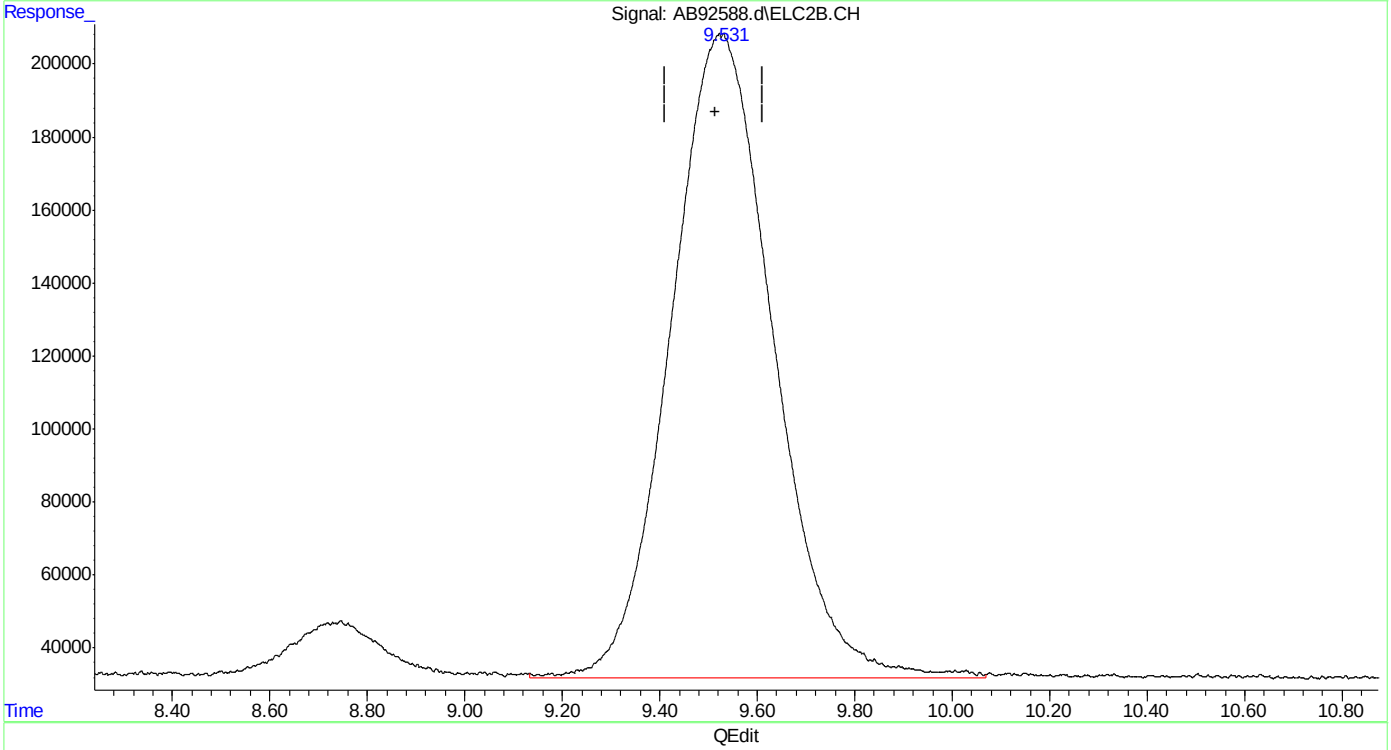
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.531min 50.367 ppb m
response 25804554

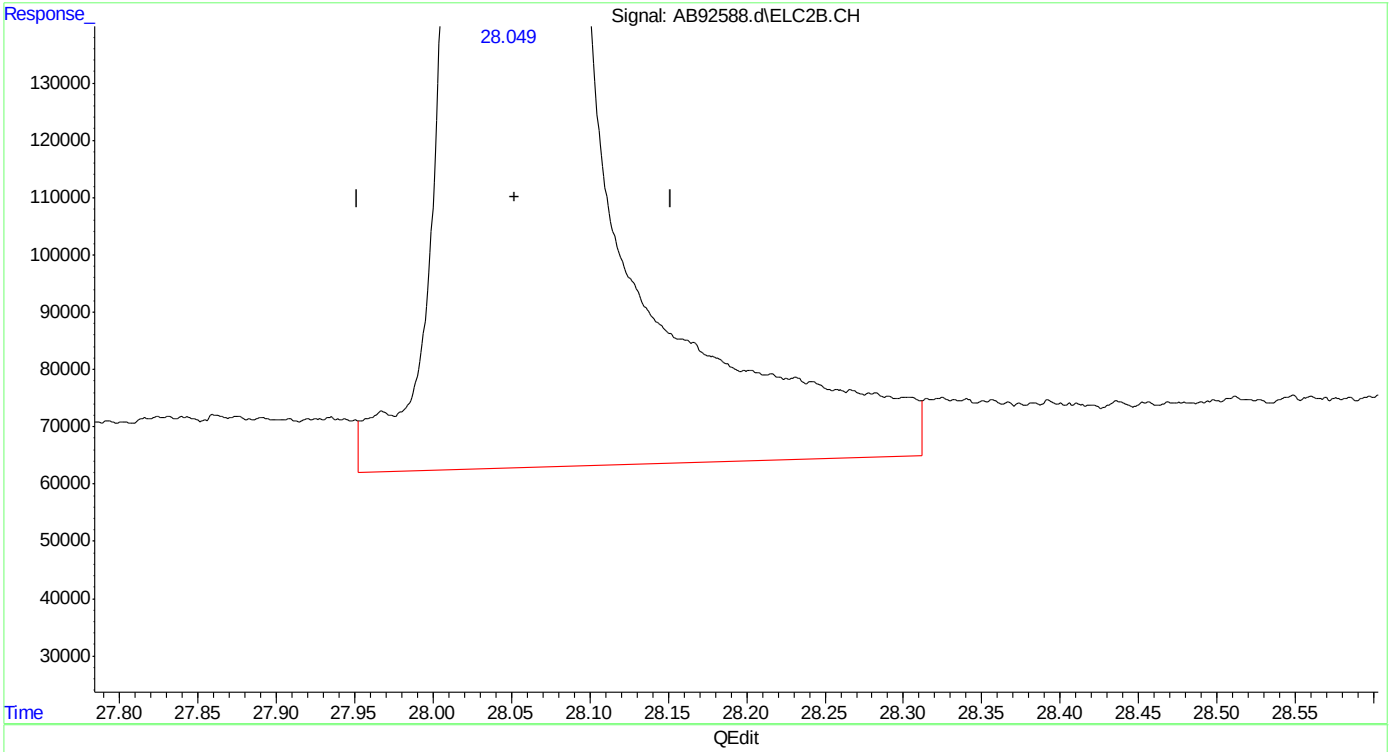
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.049min 54.400 ppb
response 39376906

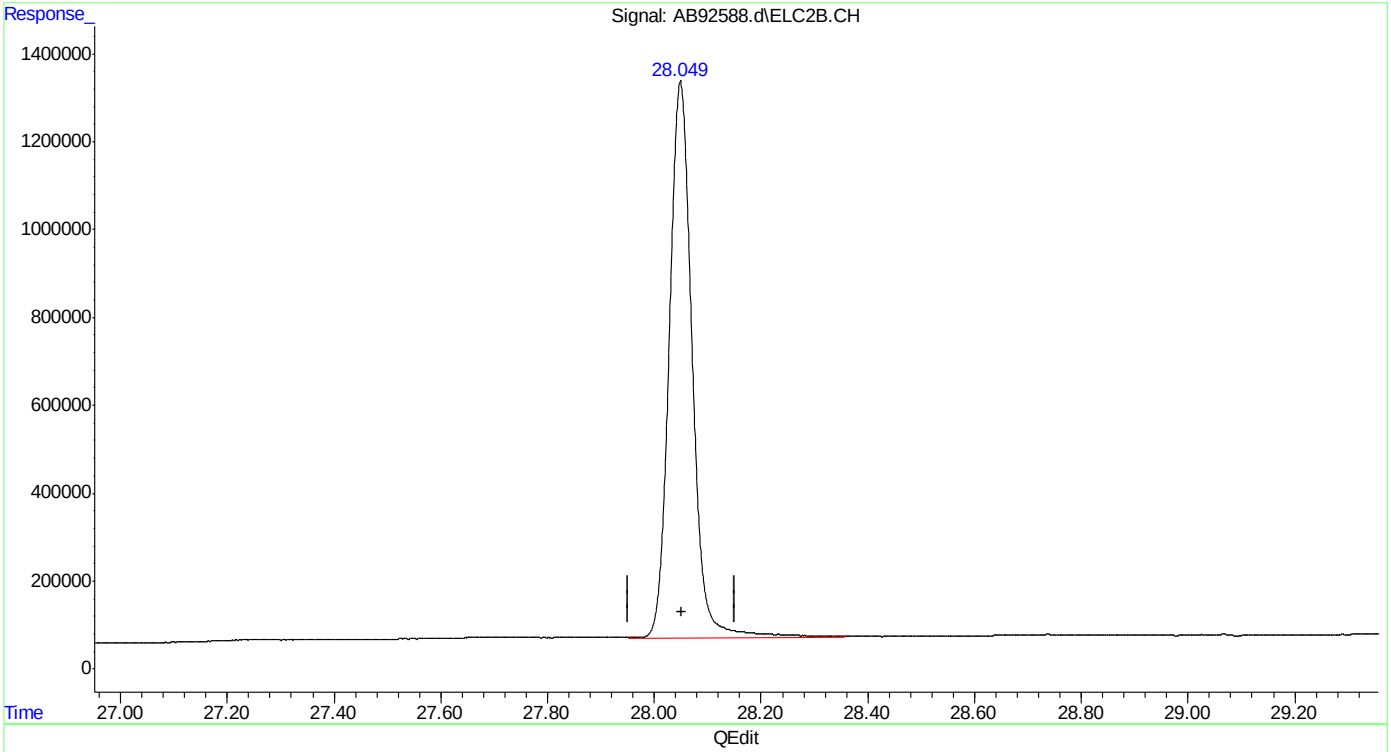
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 11:28:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.049min 52.040 ppb m
response 37668697

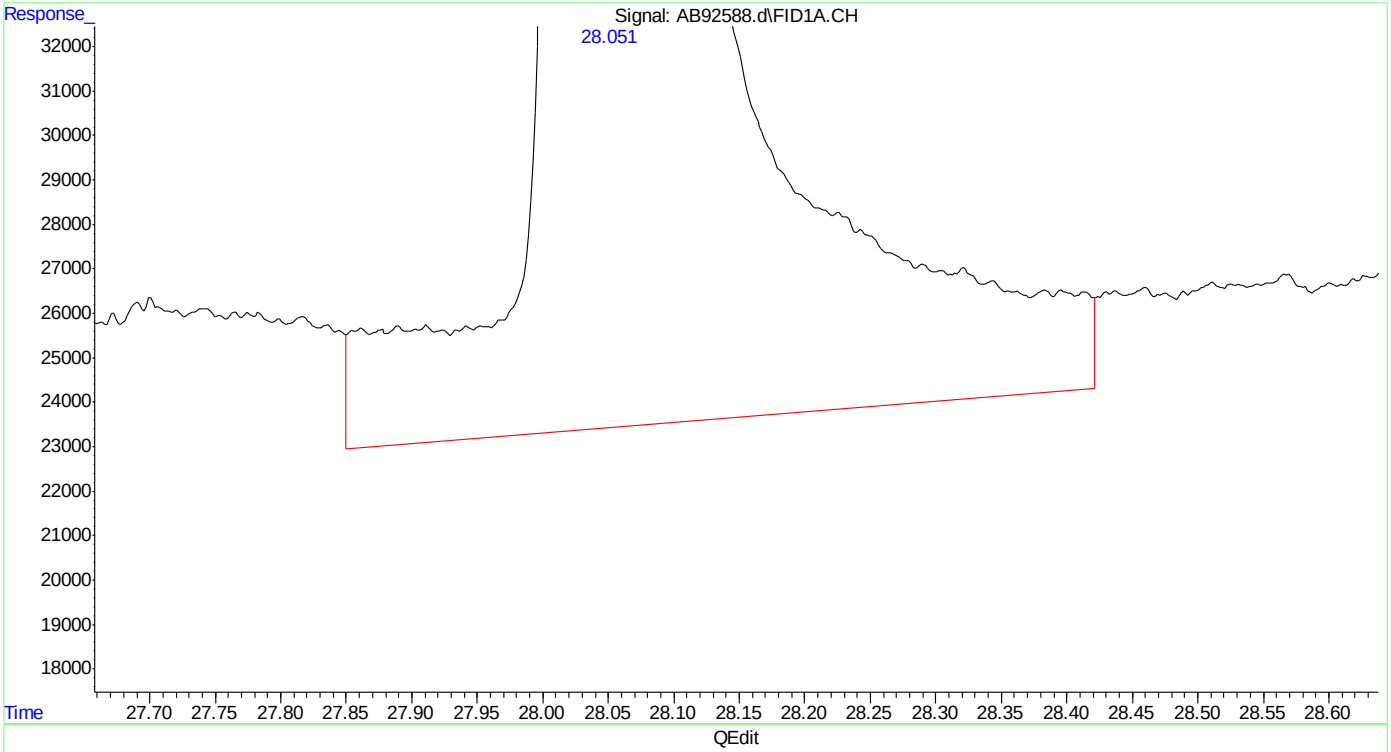
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.052min 52.074 ppb
response 17760539

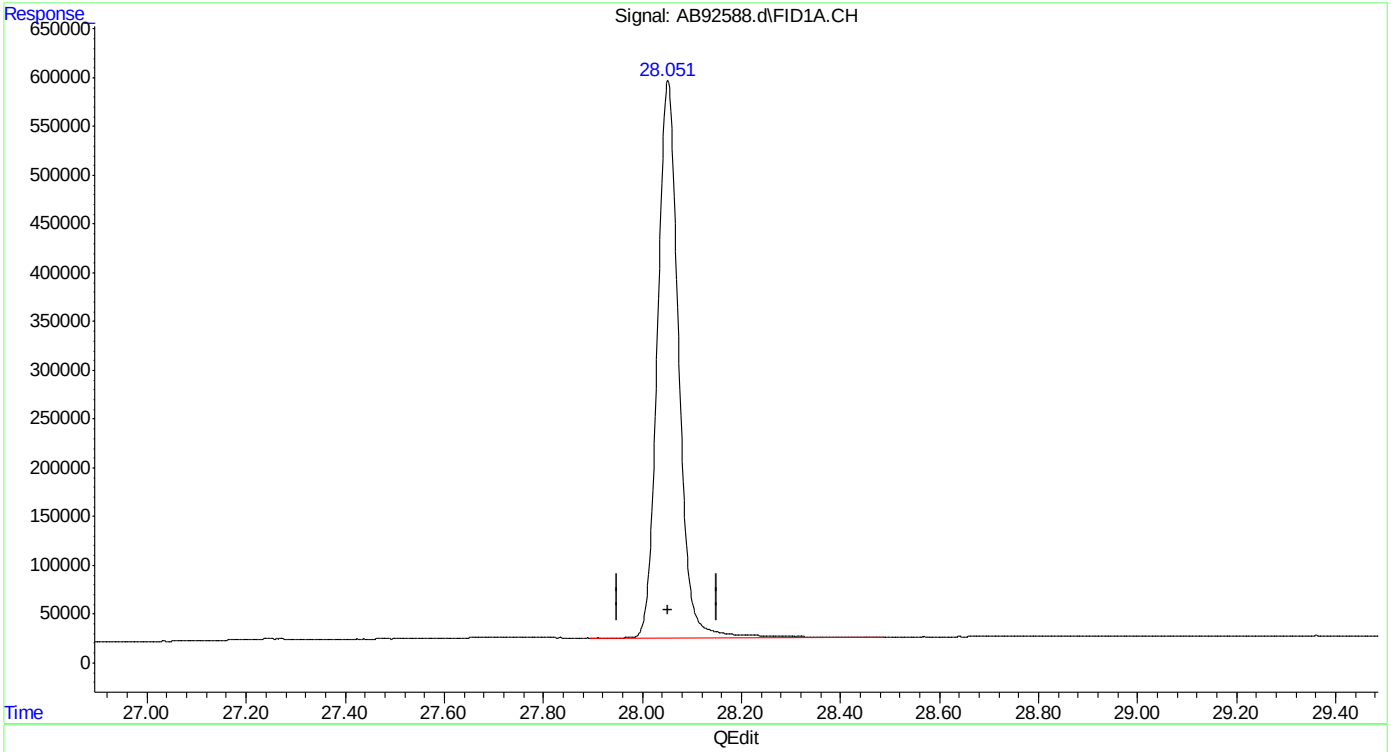
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.051min 50.025 ppb m
response 17061887

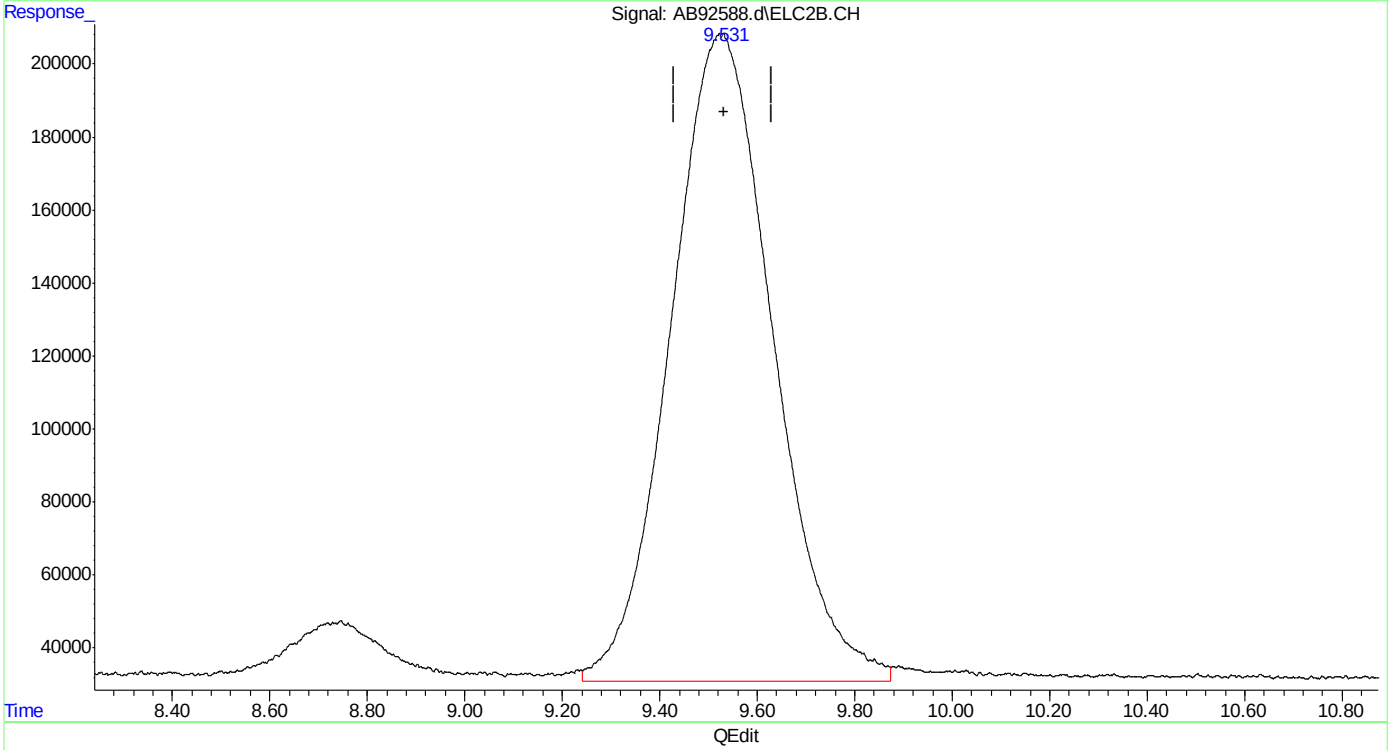
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.522min 50.048 ppb
response 25829396

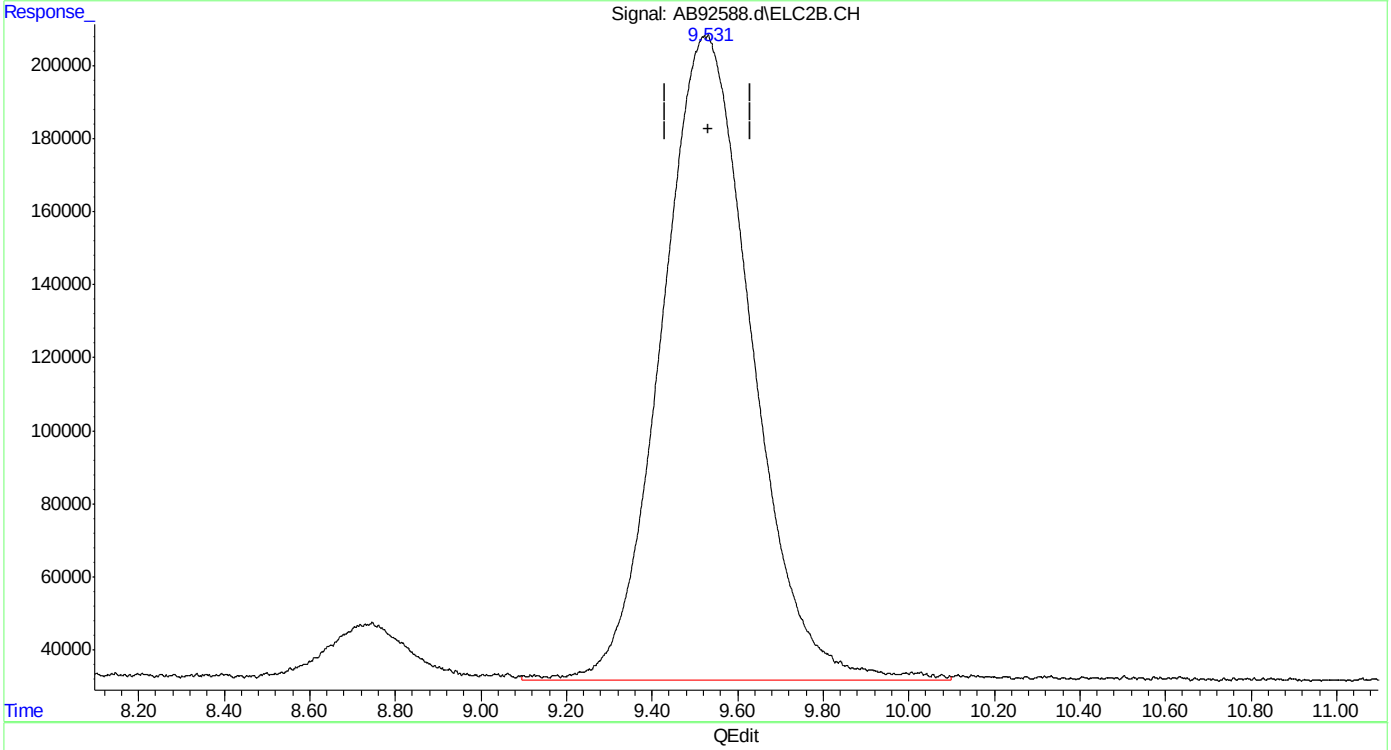
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.531min 50.076 ppb m
response 25843788

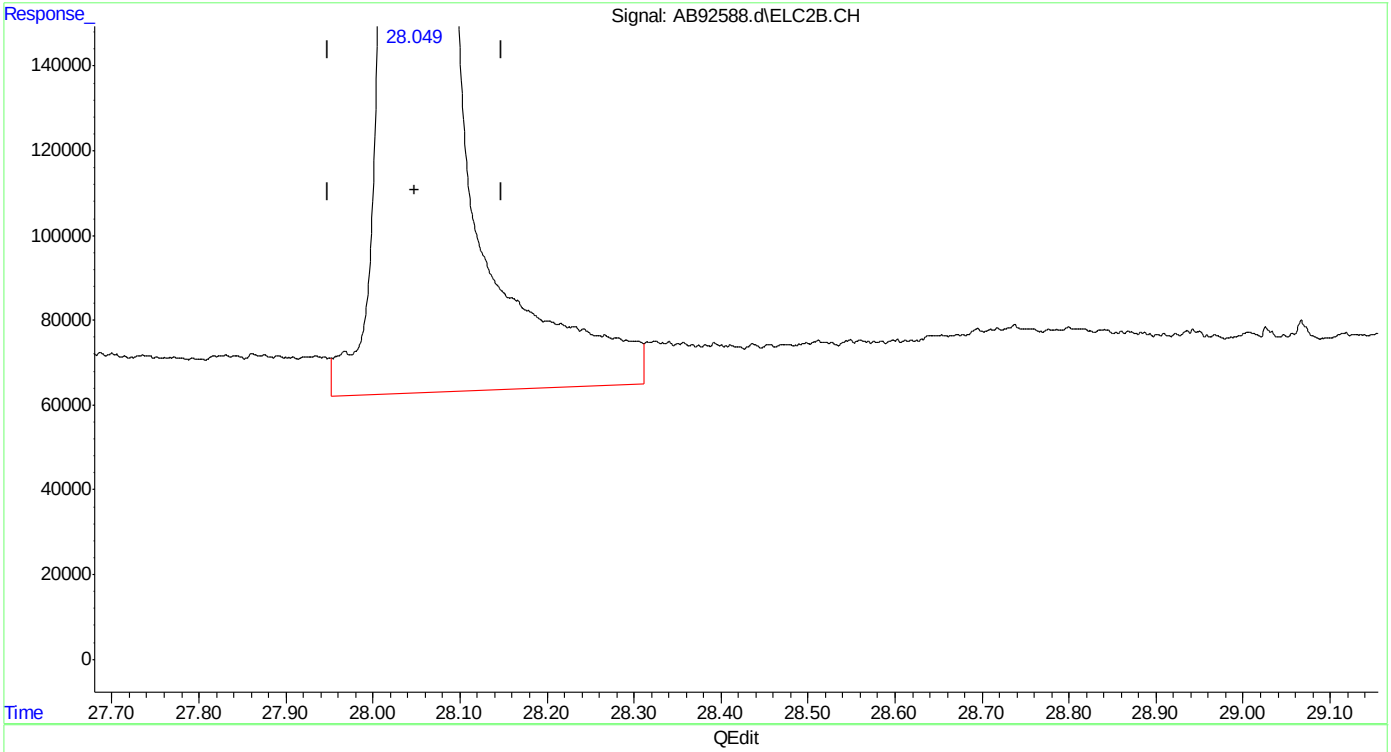
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.049min 52.267 ppb
response 39376906

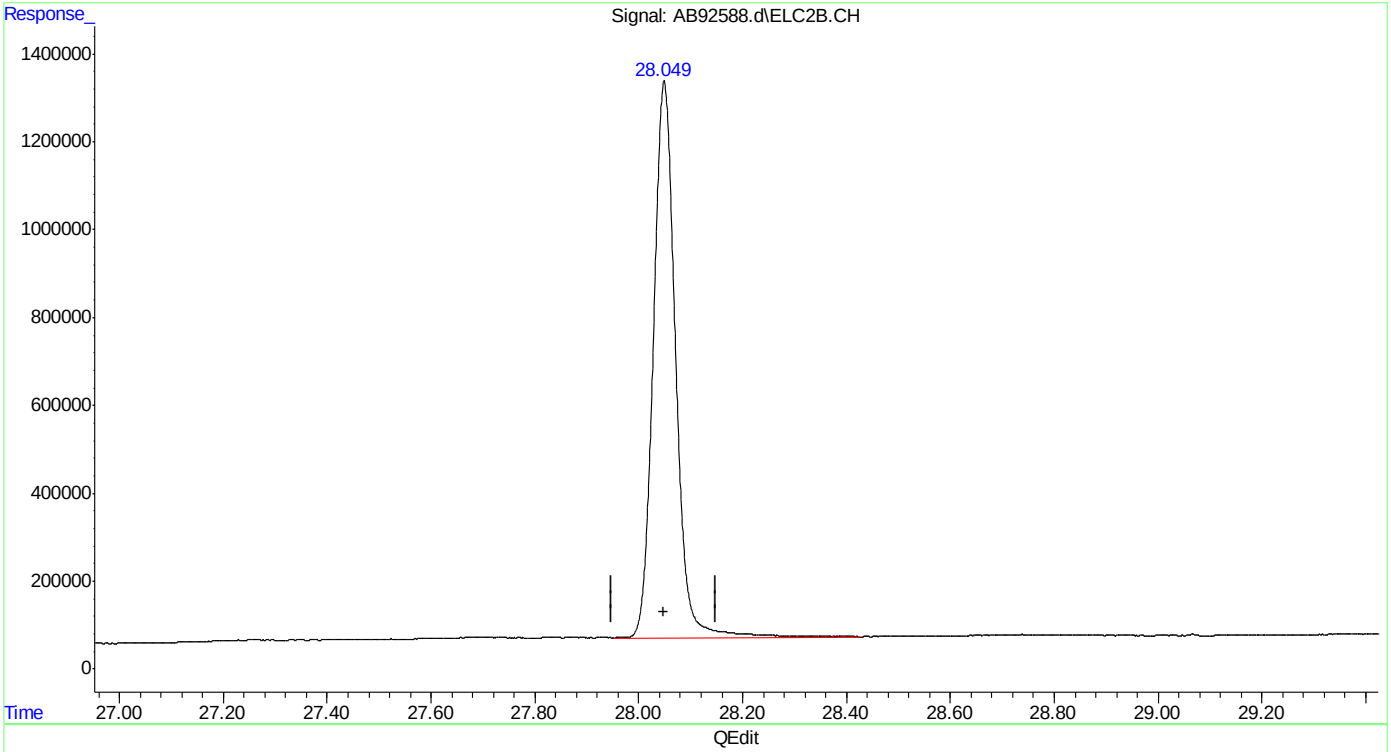
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.049min 50.002 ppb m
response 37670302

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:12:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	15.168	4362458	9.864 ppb	m
Spiked Amount 50.000		Recovery =	19.73%	
9) s 2,3,4-trifluorotoluene	20.220	4158758	10.238 ppb	m
Spiked Amount 50.000		Recovery =	20.48%	
25) s fluorobenzene #2	15.165	8690415	9.692 ppb	m
Spiked Amount 50.000		Recovery =	19.38%	
27) s 2,3,4-trifluorotoluen...	20.218	4721681	10.012 ppb	
Spiked Amount 50.000		Recovery =	20.02%	
Target Compounds				
1) h rt5.5-7	6.370	3766236	10.859 ppb	m
2) h rt7/10	8.710	4308812	10.809 ppb	m
3) mtbe	9.531	2209462	10.126 ppb	m
4) h rt10/13	13.890	4807629	10.873 ppb	m
5) benzene	14.665	5646132	10.366 ppb	
8) toluene	19.124	6173366	10.277 ppb	m
11) h rt20/25	21.900	6317132	11.059 ppb	m
13) ethylbenzene	22.217	6624507	10.391 ppb	
14) m,p-xylene	22.361	13841478	21.019 ppb	
15) o-xylene	23.165	6899240	10.392 ppb	m
16) h decane	24.230	6389567	10.874 ppb	m
17) t 1,3,5-trimethylbenzene	24.592	7137343	10.001 ppb	m
18) 1,2,4-trimethylbenzene	25.110	6940844	10.477 ppb	
19) h butylcyclohexane	25.263	6902750	11.143 ppb	m
20) naphthalene	28.056	3925512	11.504 ppb	m
23) mtbe #2	9.536	5190787	10.043 ppb	m
24) benzene #2	14.666	13970184	9.931 ppb	m
26) toluene #2	19.121	12172198	10.073 ppb	m
28) ethylbenzene #2	22.215	9984696	9.999 ppb	m
29) m,p-xylene #2	22.358	24640906	20.407 ppb	
30) o-xylene #2	23.163	10078357	9.945 ppb	m
31) t 1,3,5-trimethylbenzen...	24.590	14168908	9.701 ppb	
32) 1,2,4-trimethylbenzen...	25.108	10650588	10.184 ppb	
33) naphthalene #2	28.054	8606987	11.424 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	10728698	10.220 ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

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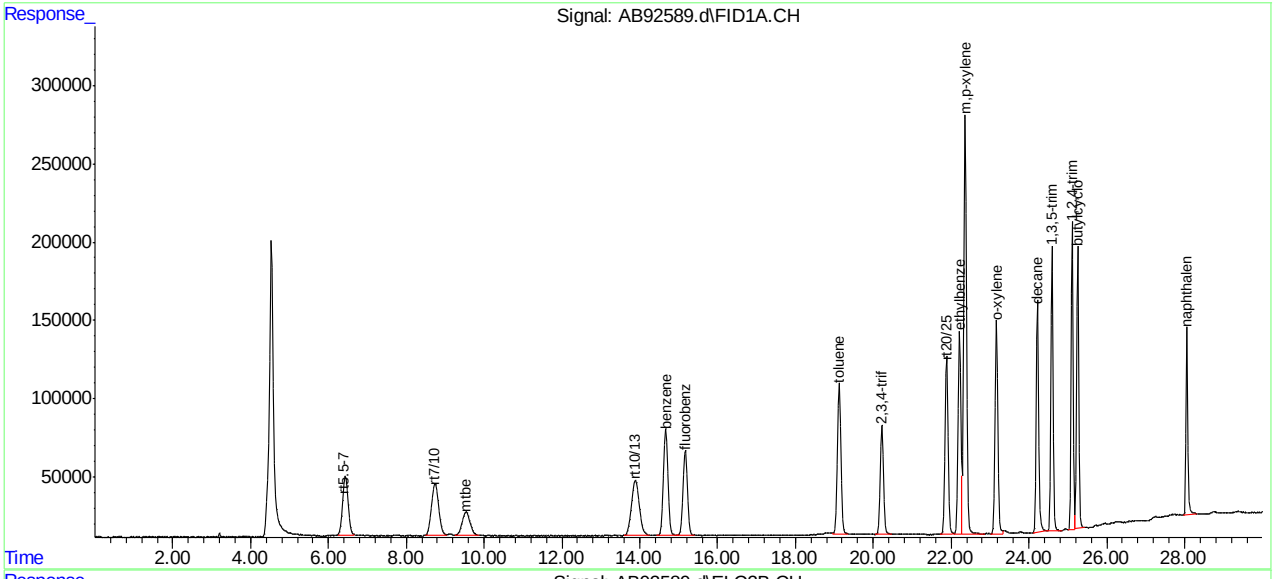
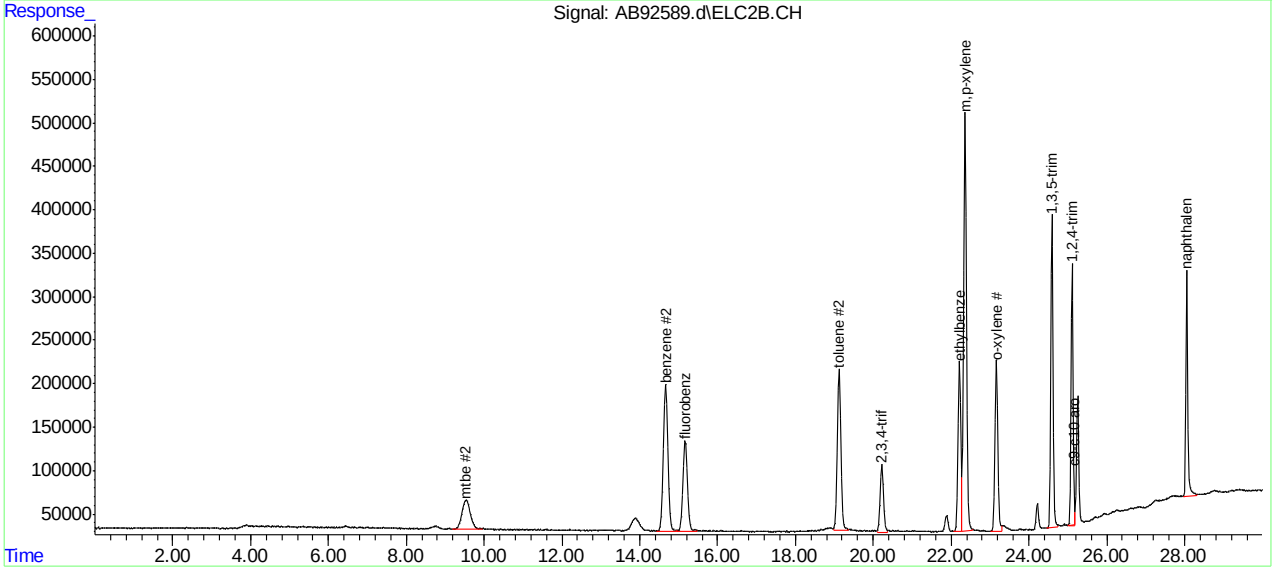
Quantitation Report (QT Reviewed)

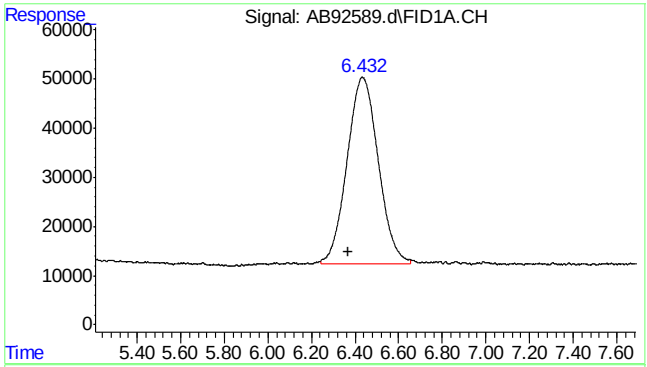
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:12:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

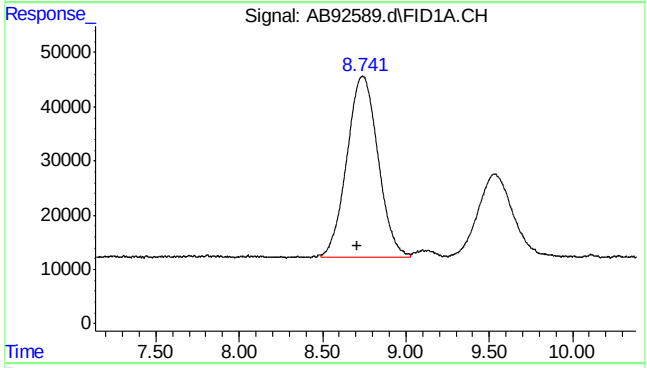






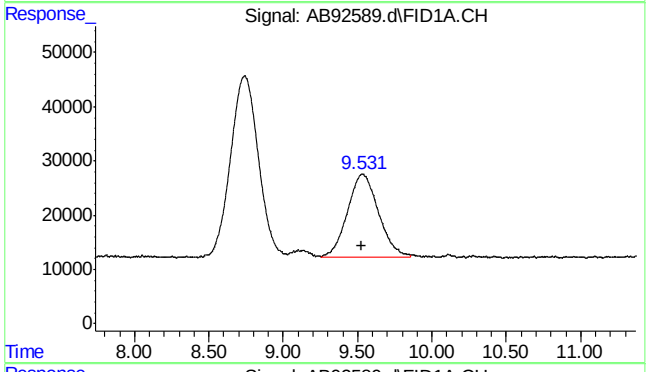
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 3766236
Conc: 10.86 ppb m



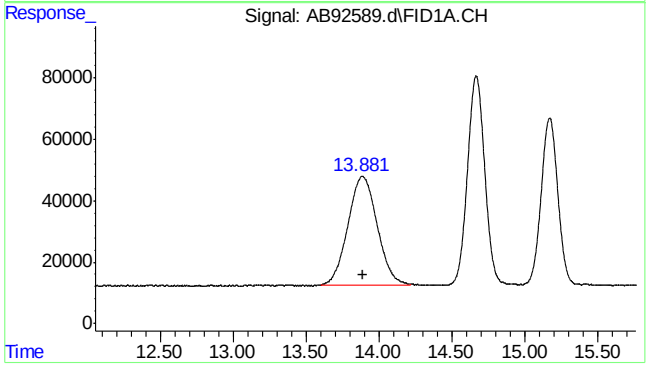
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 4308812
Conc: 10.81 ppb m



#3 mtbe

R.T.: 9.531 min
Delta R.T.: 0.006 min
Response: 2209462
Conc: 10.13 ppb m



#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 4807629
Conc: 10.87 ppb m

7.5.6

7

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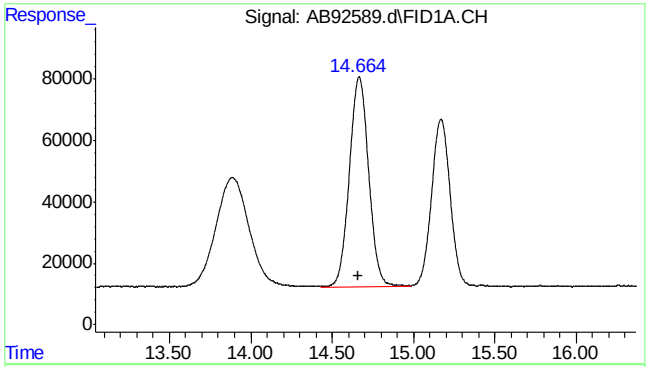
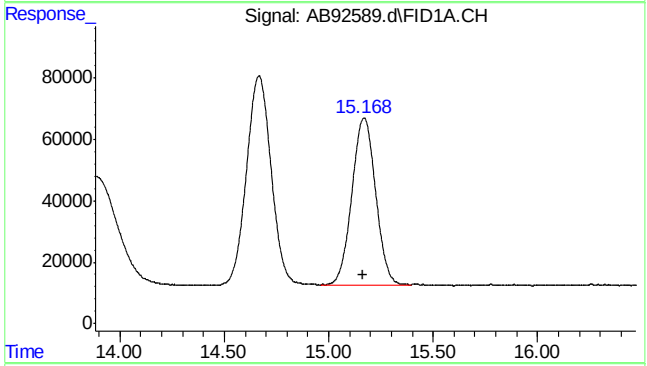


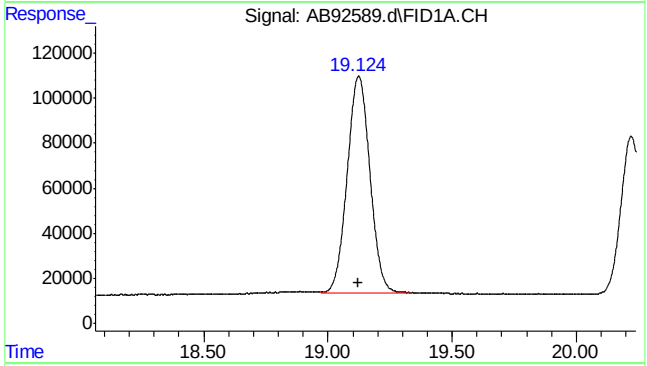
#5 benzene

```
      R.T.:   14.665 min
Delta R.T.:    0.003 min
  Response:   5646132
      Conc:  10.37 ppb
```



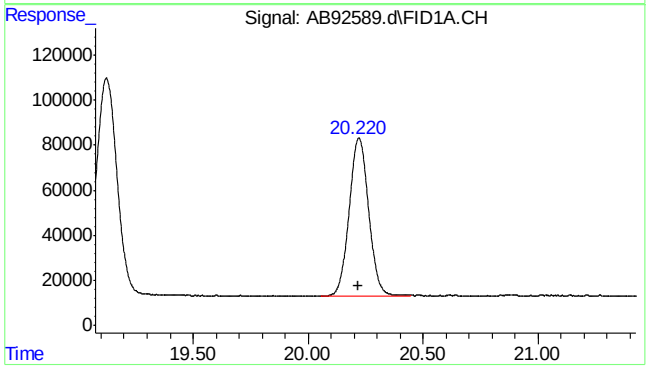
#6 fluorobenzene

```
      R.T.:   15.168 min
Delta R.T.:    0.004 min
  Response:   4362458
      Conc:   9.86 ppb m
```



#8 toluene

```
      R.T.:   19.124 min
Delta R.T.:    0.003 min
  Response:   6173366
      Conc:  10.28 ppb m
```



#9 2,3,4-trifluorotoluene

```
      R.T.:   20.220 min
Delta R.T.:    0.003 min
  Response:   4158758
      Conc:  10.24 ppb m
```

7.5.6

7

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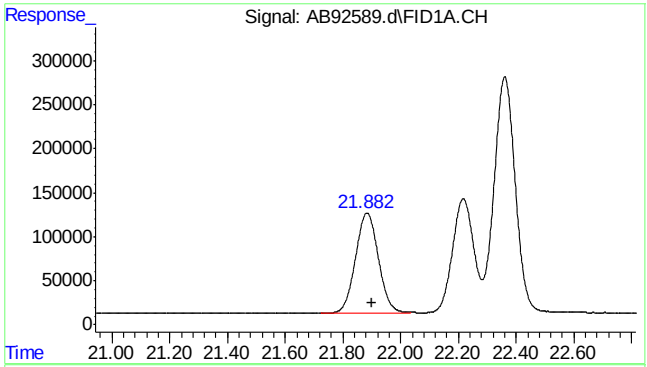
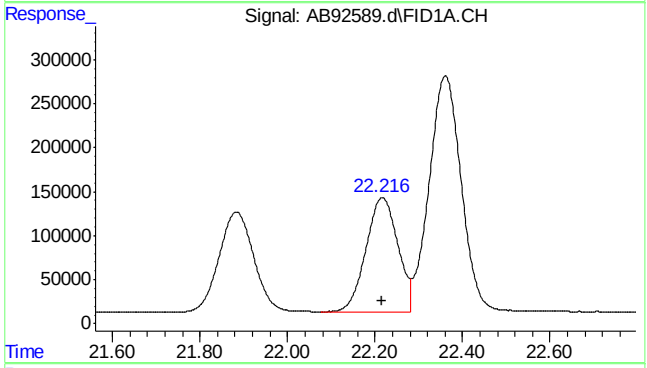


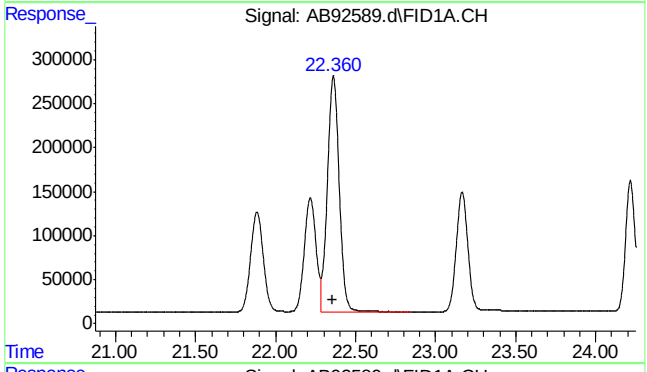
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 6317132
Conc: 11.06 ppb m



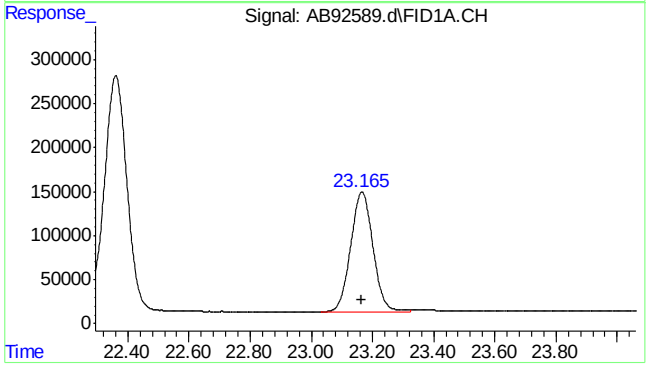
#13 ethylbenzene

R.T.: 22.217 min
Delta R.T.: 0.002 min
Response: 6624507
Conc: 10.39 ppb



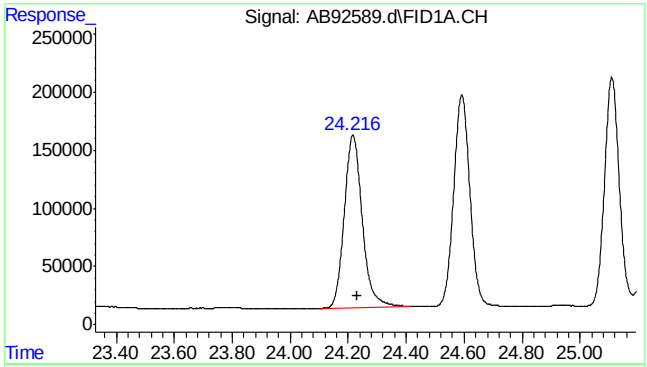
#14 m,p-xylene

R.T.: 22.361 min
Delta R.T.: 0.002 min
Response: 13841478
Conc: 21.02 ppb



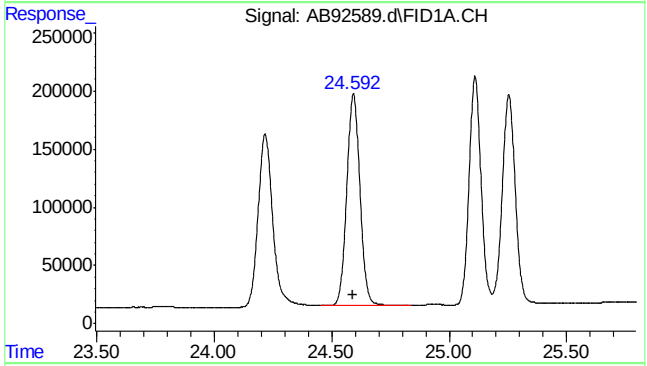
#15 o-xylene

R.T.: 23.165 min
Delta R.T.: 0.002 min
Response: 6899240
Conc: 10.39 ppb m



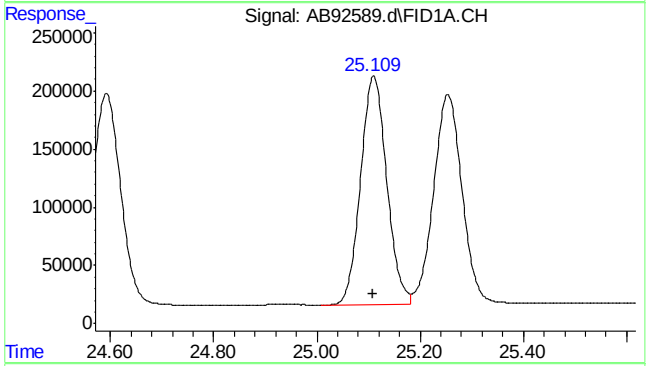
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 6389567
Conc: 10.87 ppb m



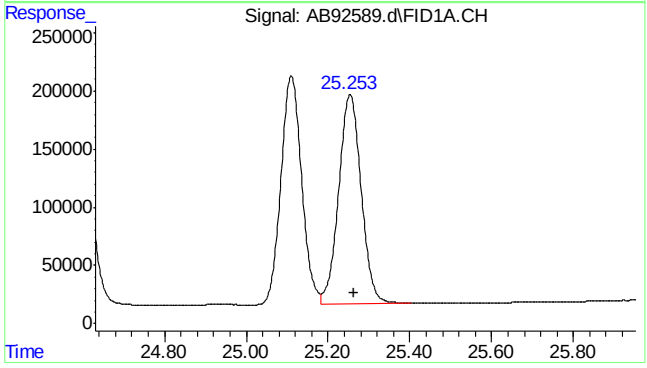
#17 1,3,5-trimethylbenzene

R.T.: 24.592 min
Delta R.T.: 0.001 min
Response: 7137343
Conc: 10.00 ppb m



#18 1,2,4-trimethylbenzene

R.T.: 25.110 min
Delta R.T.: 0.002 min
Response: 6940844
Conc: 10.48 ppb



#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 6902750
Conc: 11.14 ppb m

7.5.6

7

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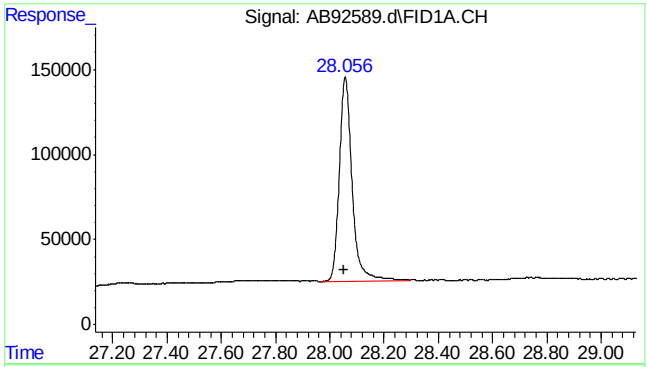
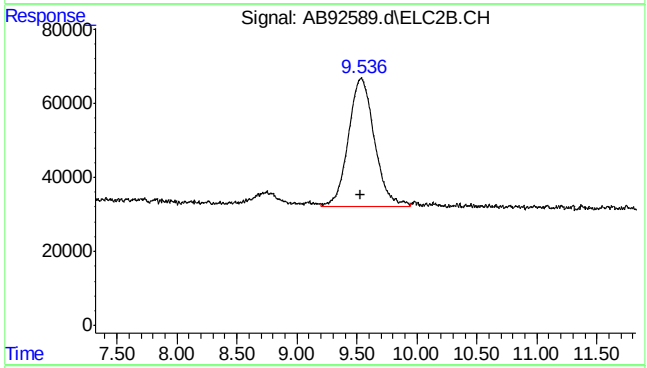


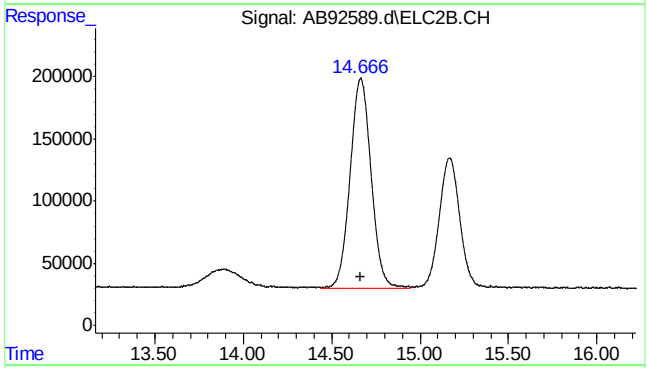
#20 naphthalene

R.T.: 28.056 min
Delta R.T.: 0.005 min
Response: 3925512
Conc: 11.50 ppb m



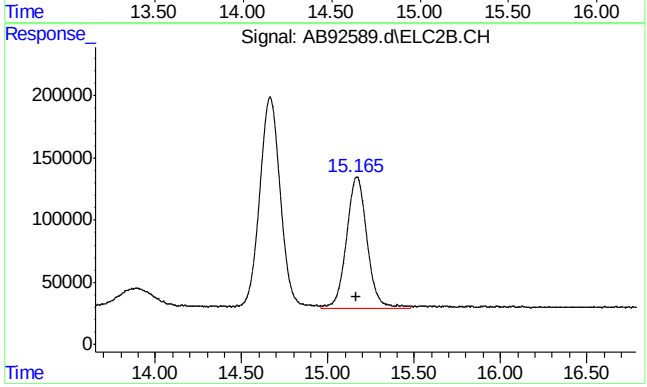
#23 mtbe #2

R.T.: 9.536 min
Delta R.T.: 0.005 min
Response: 5190787
Conc: 10.04 ppb m



#24 benzene #2

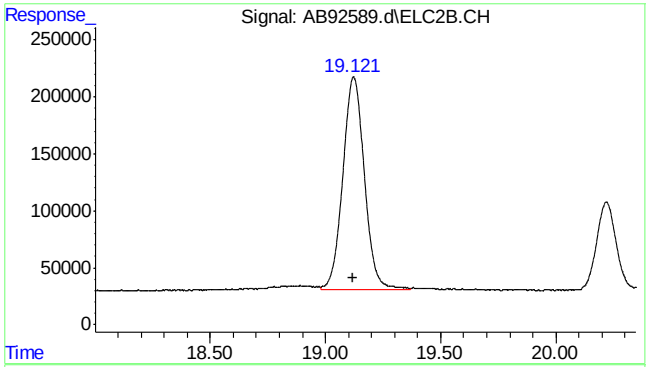
R.T.: 14.666 min
Delta R.T.: 0.004 min
Response: 13970184
Conc: 9.93 ppb m



#25 fluorobenzene #2

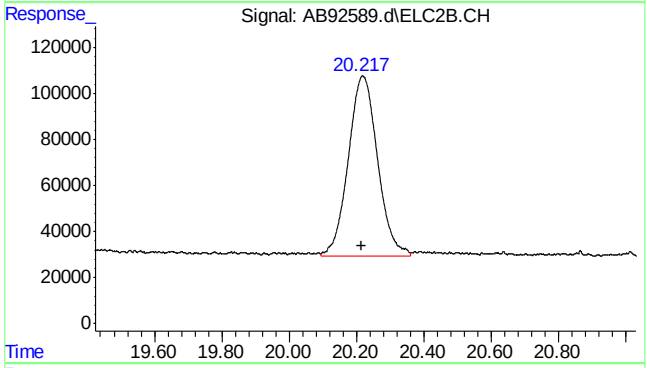
R.T.: 15.165 min
Delta R.T.: 0.004 min
Response: 8690415
Conc: 9.69 ppb m

SGS ACCUTEST MC45816A



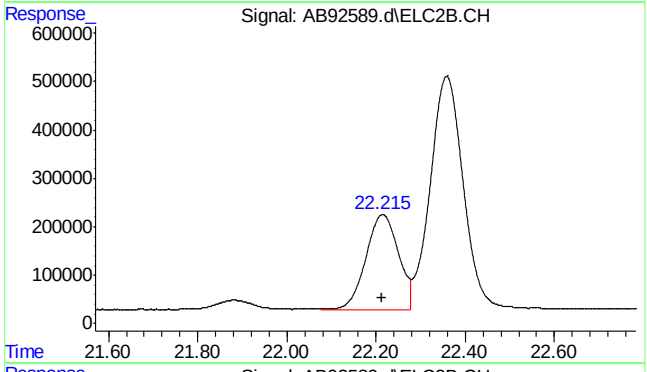
#26 toluene #2

R.T.: 19.121 min
Delta R.T.: 0.002 min
Response: 12172198
Conc: 10.07 ppb m



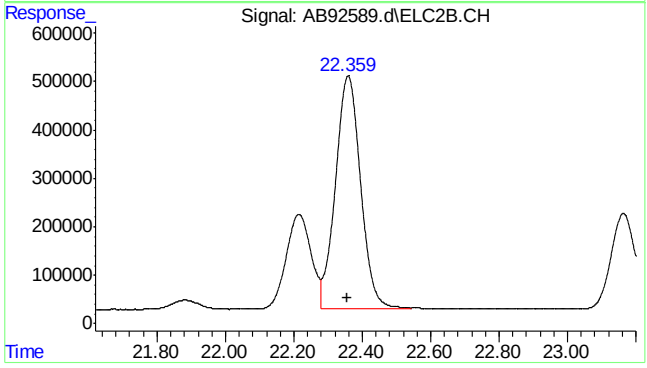
#27 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: 0.002 min
Response: 4721681
Conc: 10.01 ppb



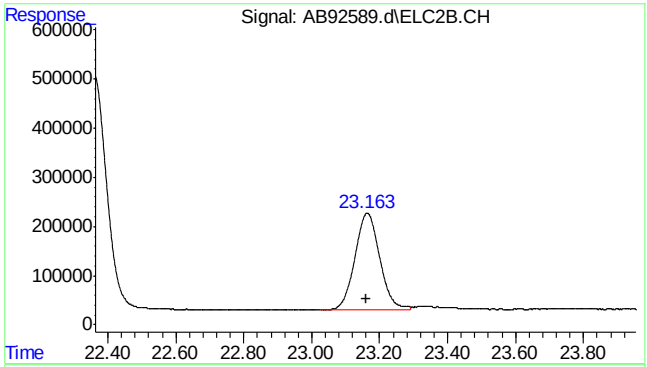
#28 ethylbenzene #2

R.T.: 22.215 min
Delta R.T.: 0.003 min
Response: 9984696
Conc: 10.00 ppb m



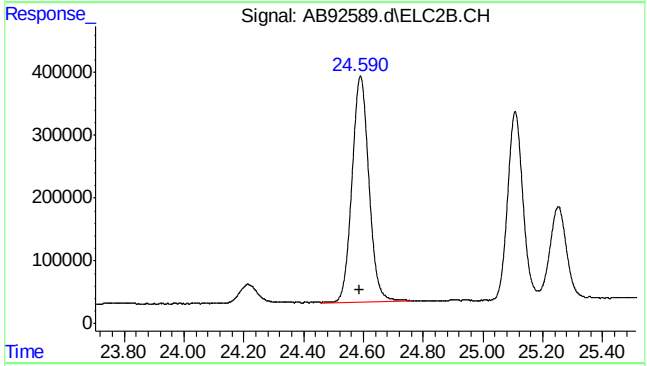
#29 m,p-xylene #2

R.T.: 22.358 min
Delta R.T.: 0.003 min
Response: 24640906
Conc: 20.41 ppb



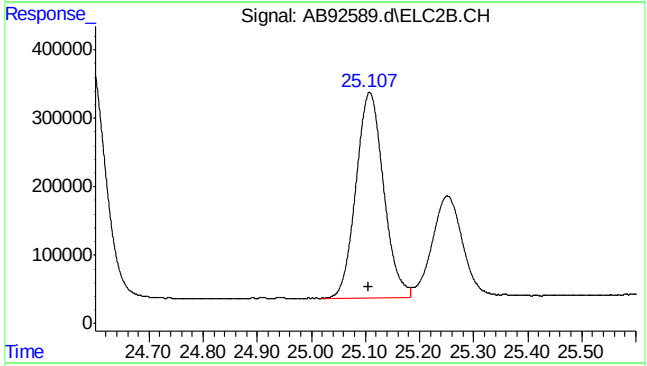
#30 o-xylene #2

R.T.: 23.163 min
Delta R.T.: 0.001 min
Response: 10078357
Conc: 9.94 ppb m



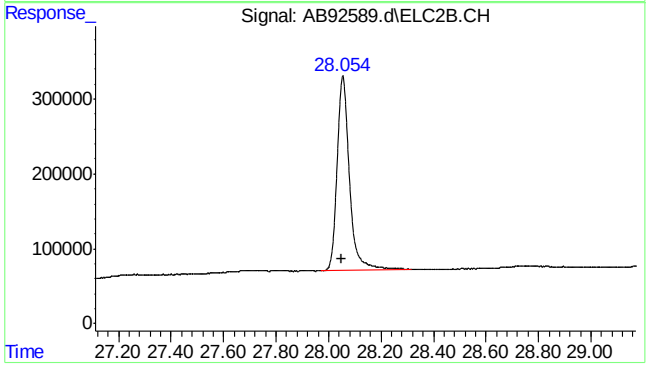
#31 1,3,5-trimethylbenzene #2

R.T.: 24.590 min
Delta R.T.: 0.002 min
Response: 14168908
Conc: 9.70 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.108 min
Delta R.T.: 0.003 min
Response: 10650588
Conc: 10.18 ppb



#33 naphthalene #2

R.T.: 28.054 min
Delta R.T.: 0.005 min
Response: 8606987
Conc: 11.42 ppb m

7.5.6

7

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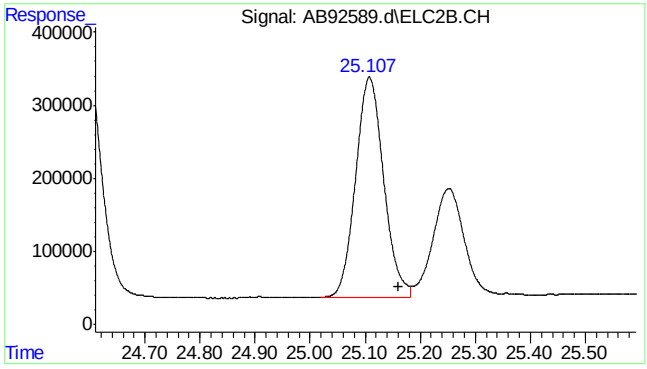


#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 10728698
Conc: 10.22 ppb m

7.5.6

7

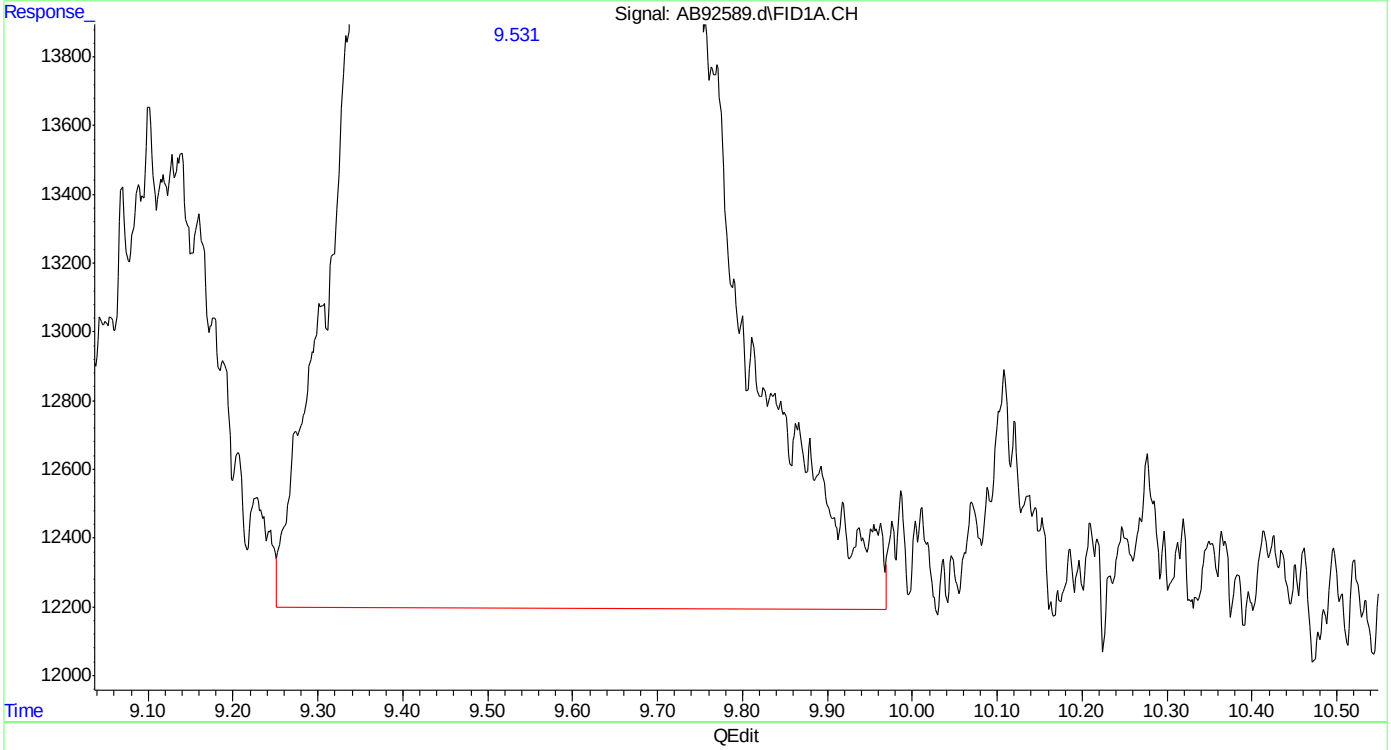
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
9.531min 10.401 ppb
response 2269467

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:04:23 2016

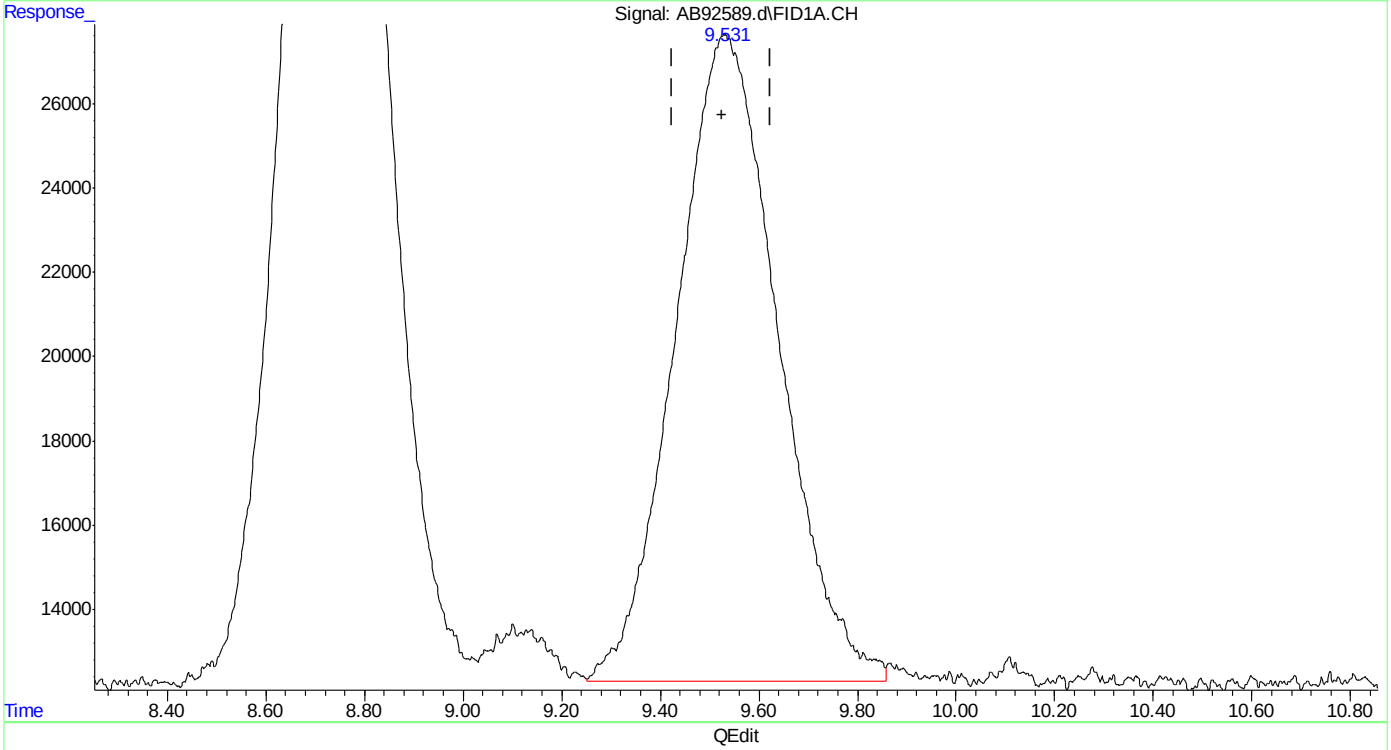
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
9.531min 10.126 ppb m
response 2209462

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(6) fluorobenzene (s)
15.169min 9.831 ppb
response 4348009

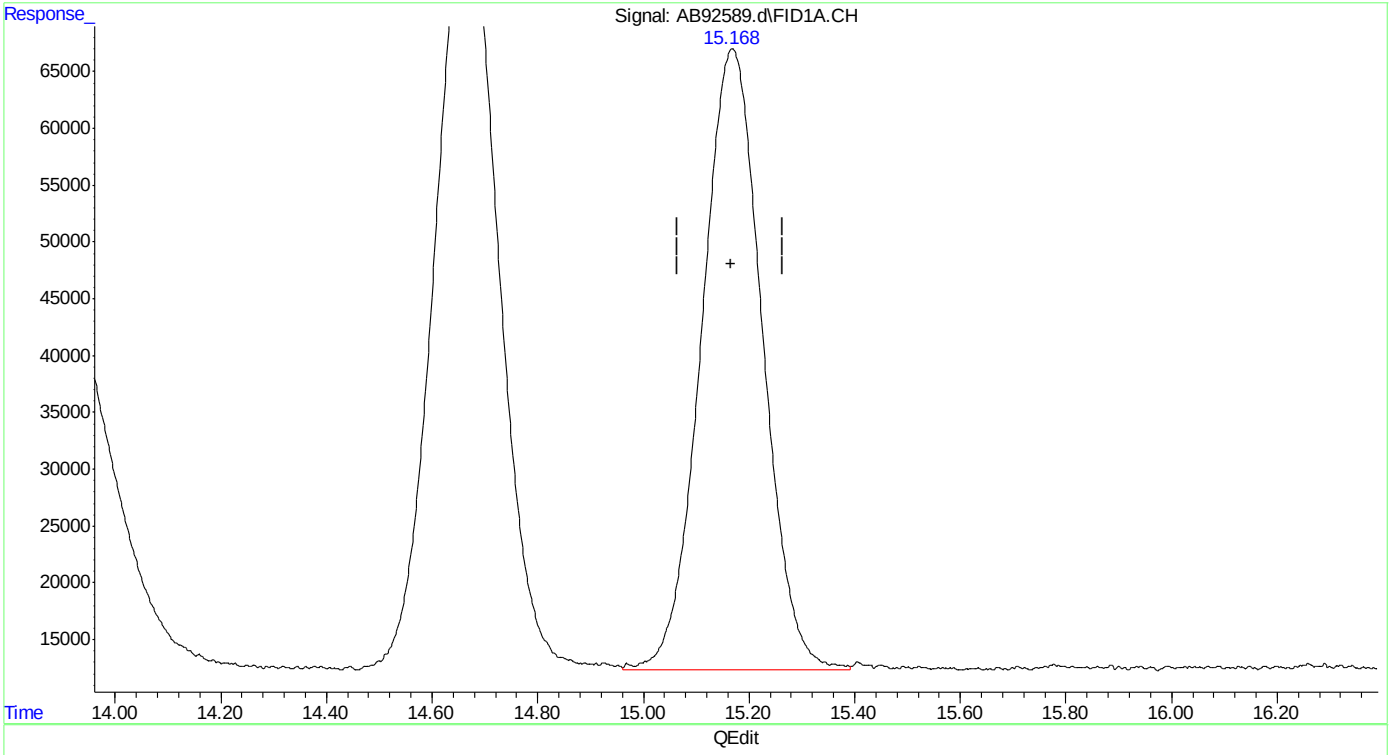
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) fluorobenzene (s)
15.168min 9.864 ppb m
response 4362458

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:06:30 2016

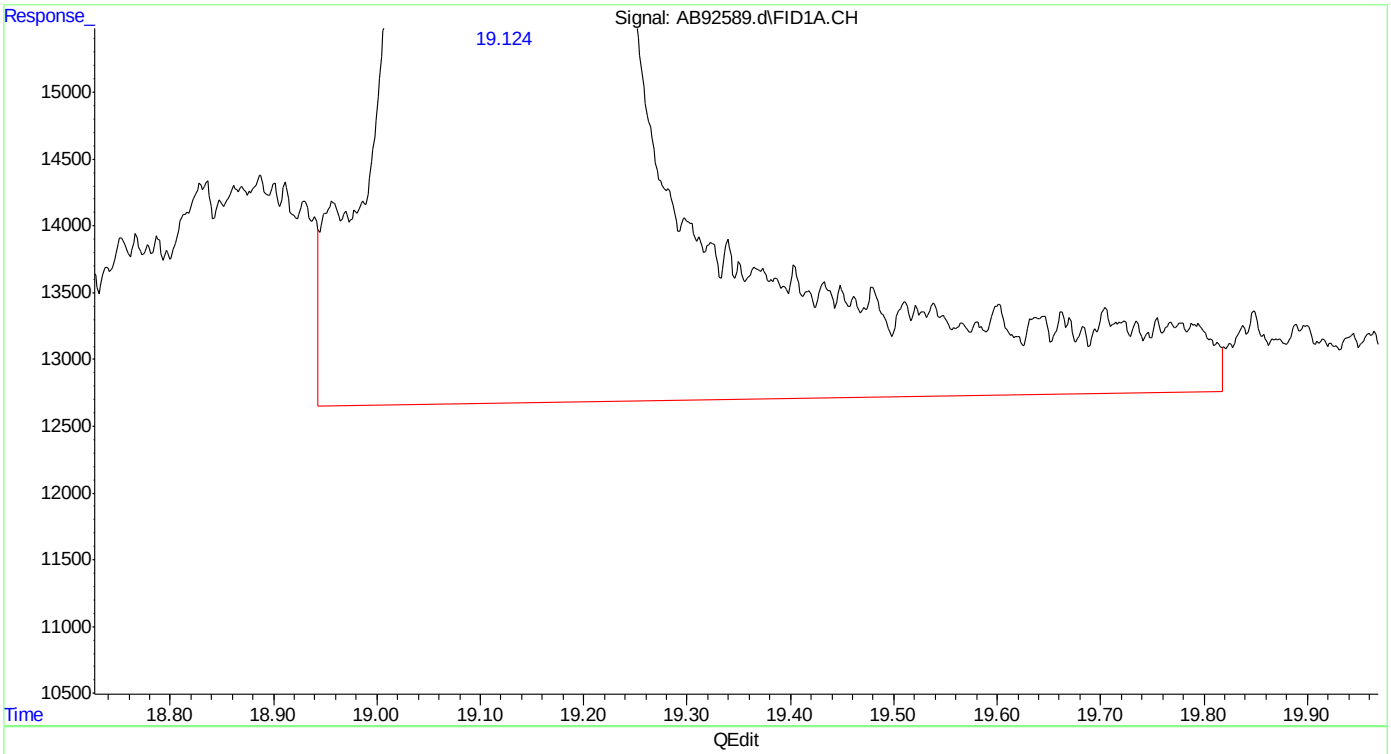
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
19.124min 10.889 ppb
response 6541207

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:06:35 2016

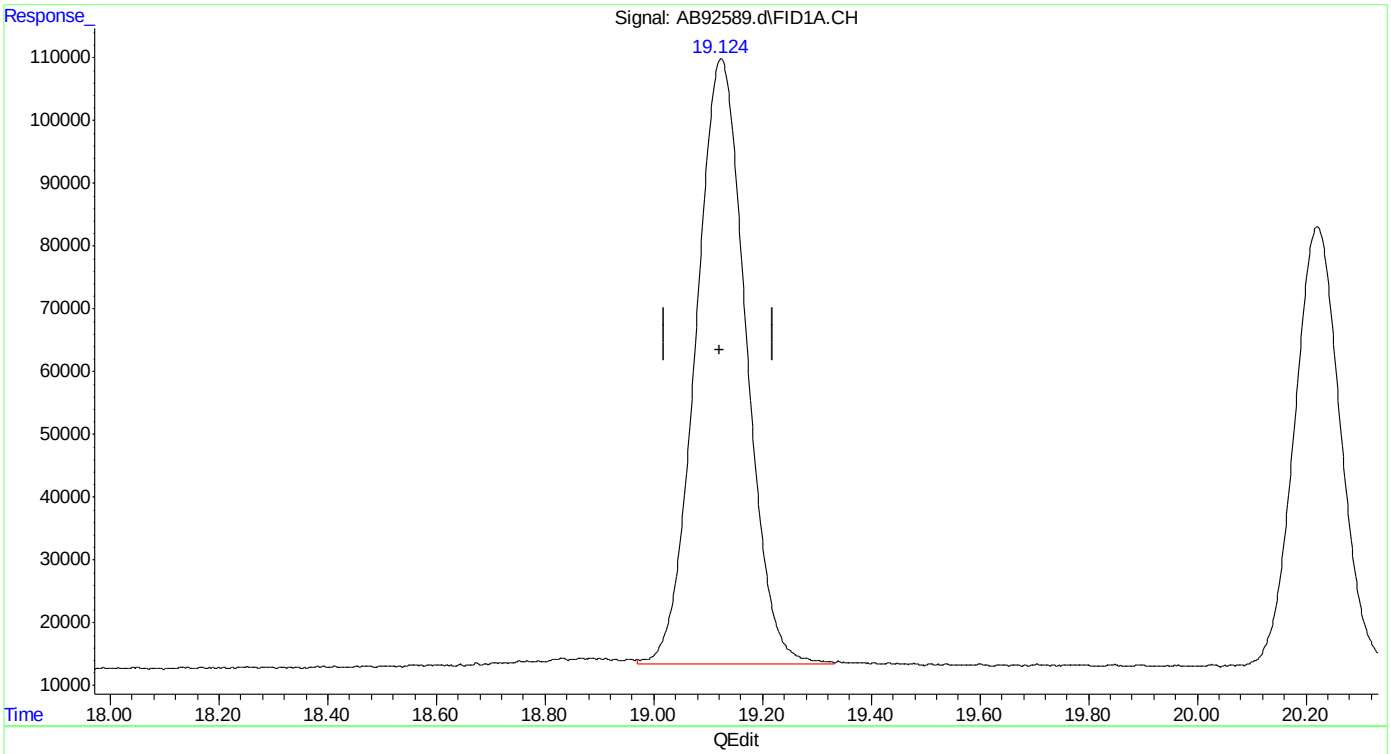
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
19.124min 10.277 ppb m
response 6173366

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:07:15 2016

SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(9) 2,3,4-trifluorotoluene (s)
20.221min 10.515 ppb
response 4271482

(+) = Expected Retention Time

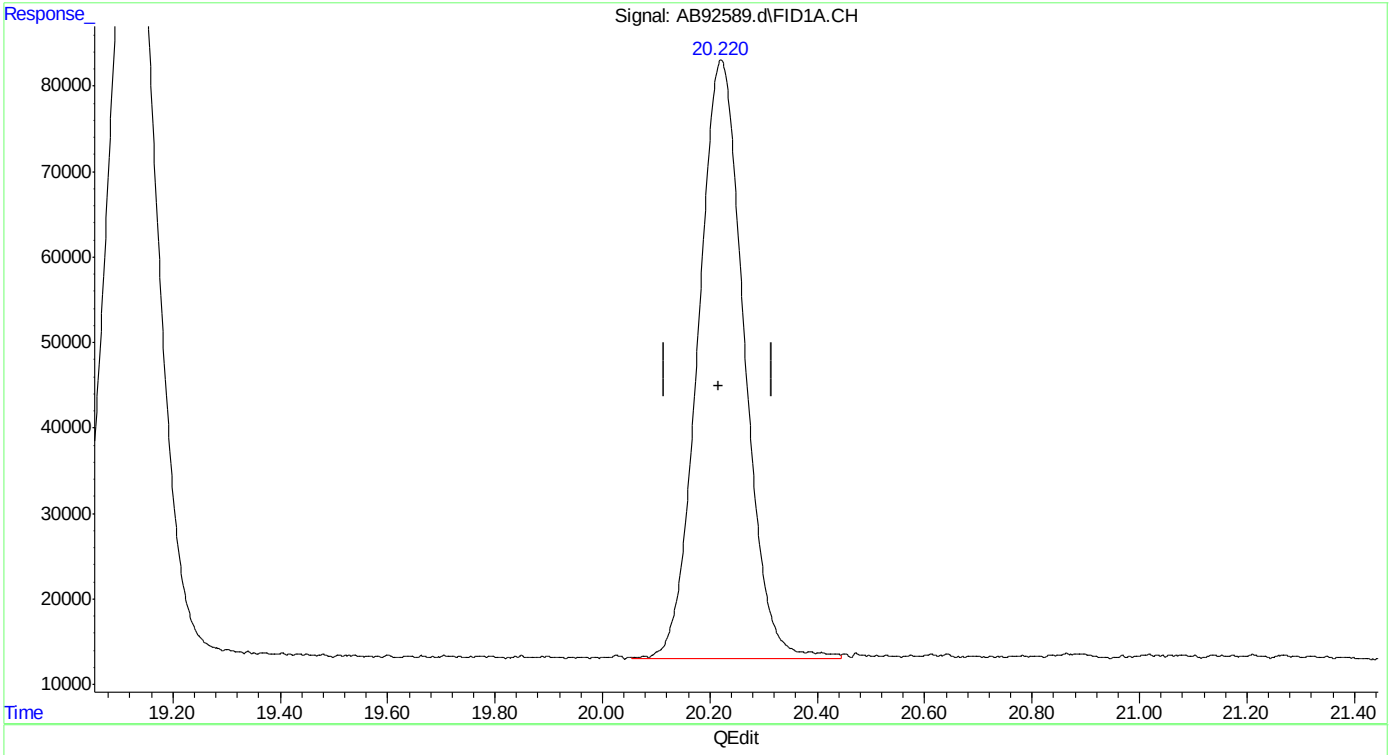
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
20.220min 10.238 ppb m
response 4158758

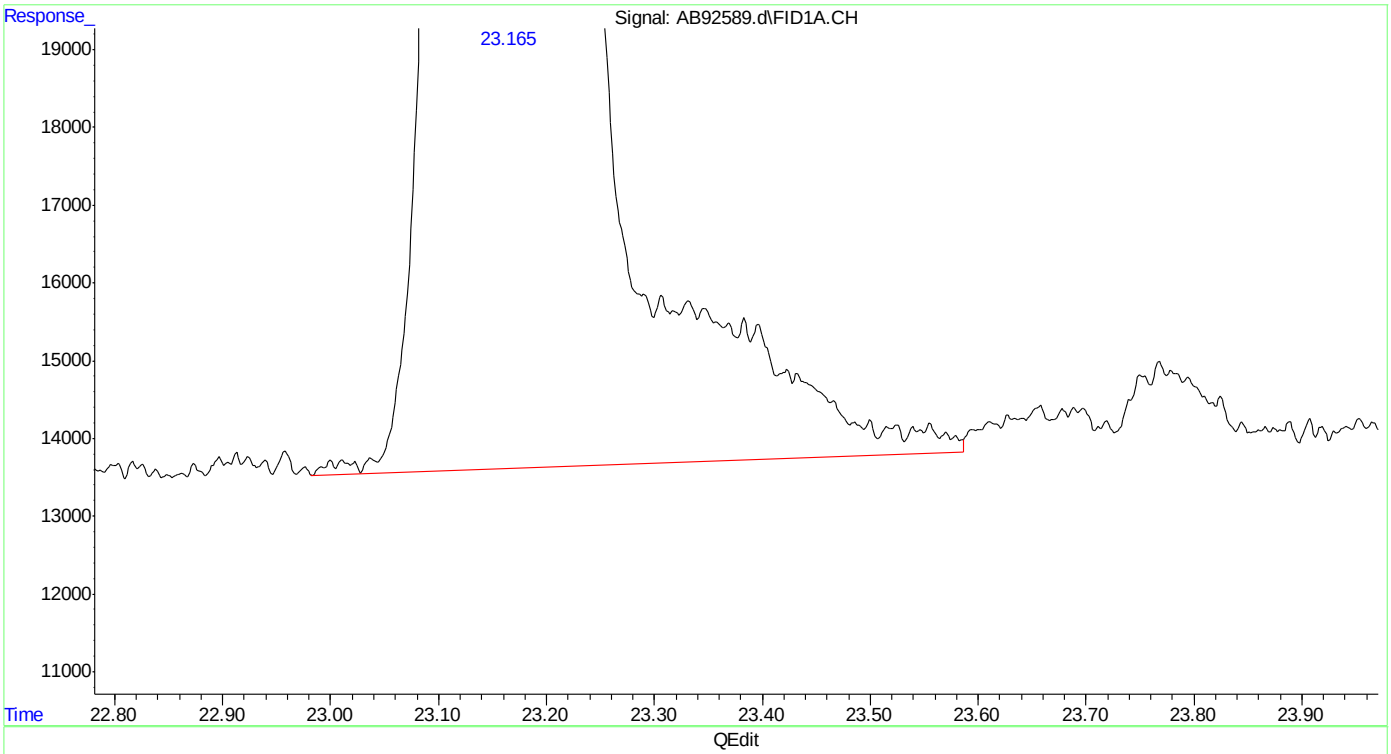
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) o-xylene
23.165min 10.584 ppb
response 7026957

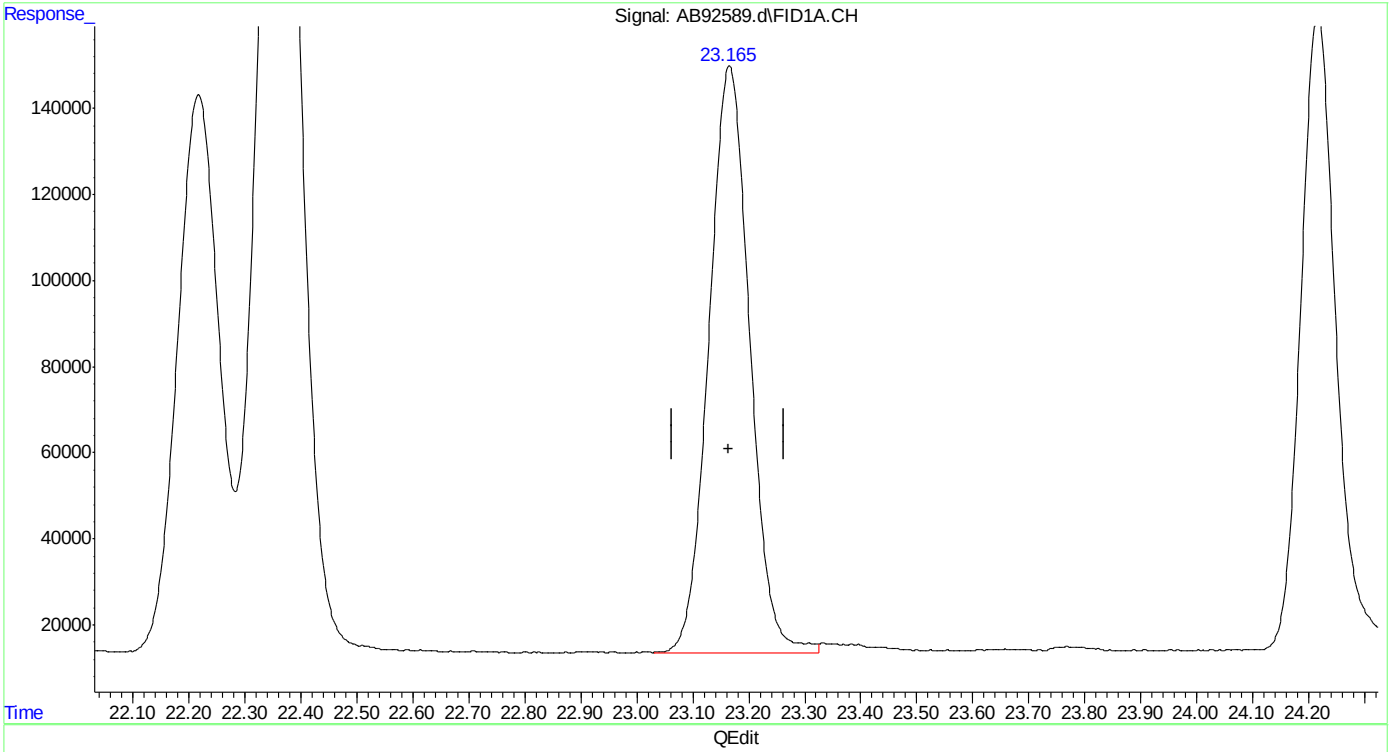
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:08:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) o-xylene
23.165min 10.392 ppb m
response 6899240

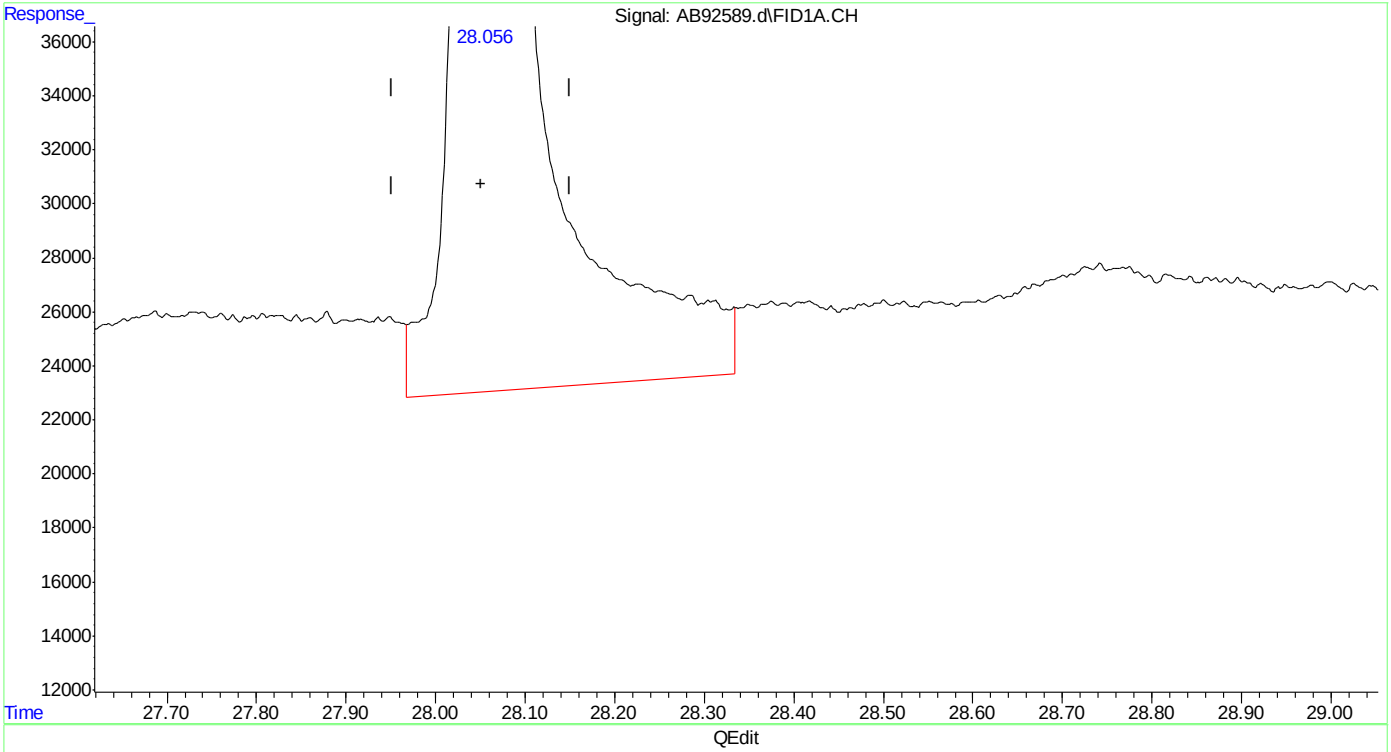
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:08:18 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.057min 13.144 ppb
response 4485292

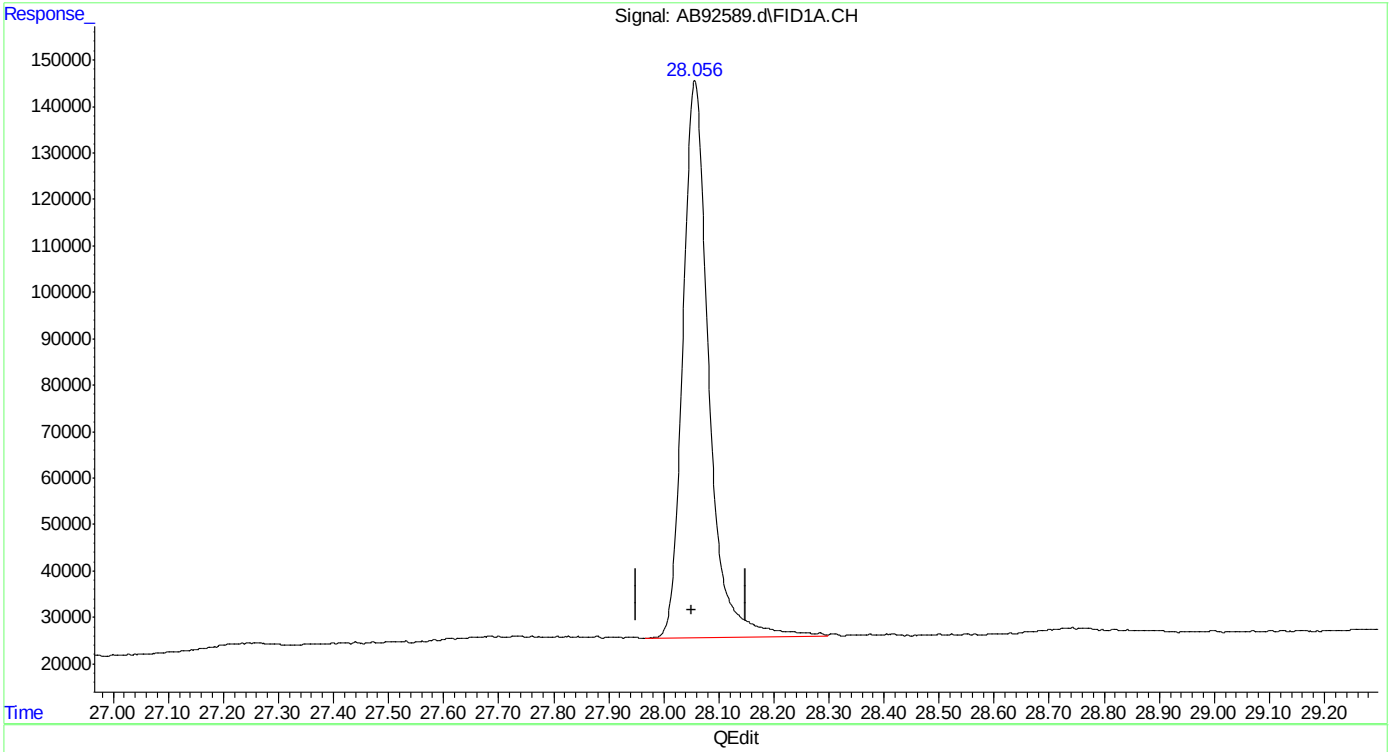
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.056min 11.504 ppb m
response 3925512

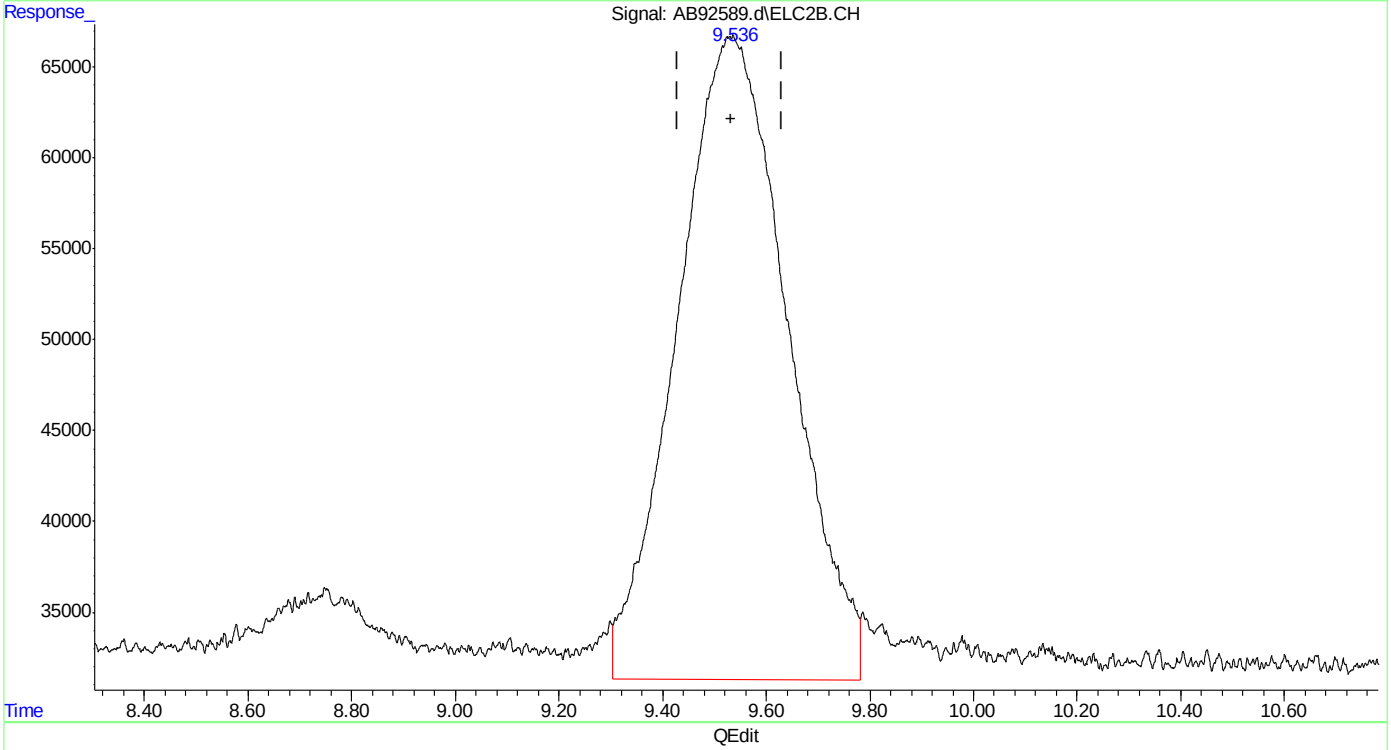
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.536min 10.190 ppb
response 5267217

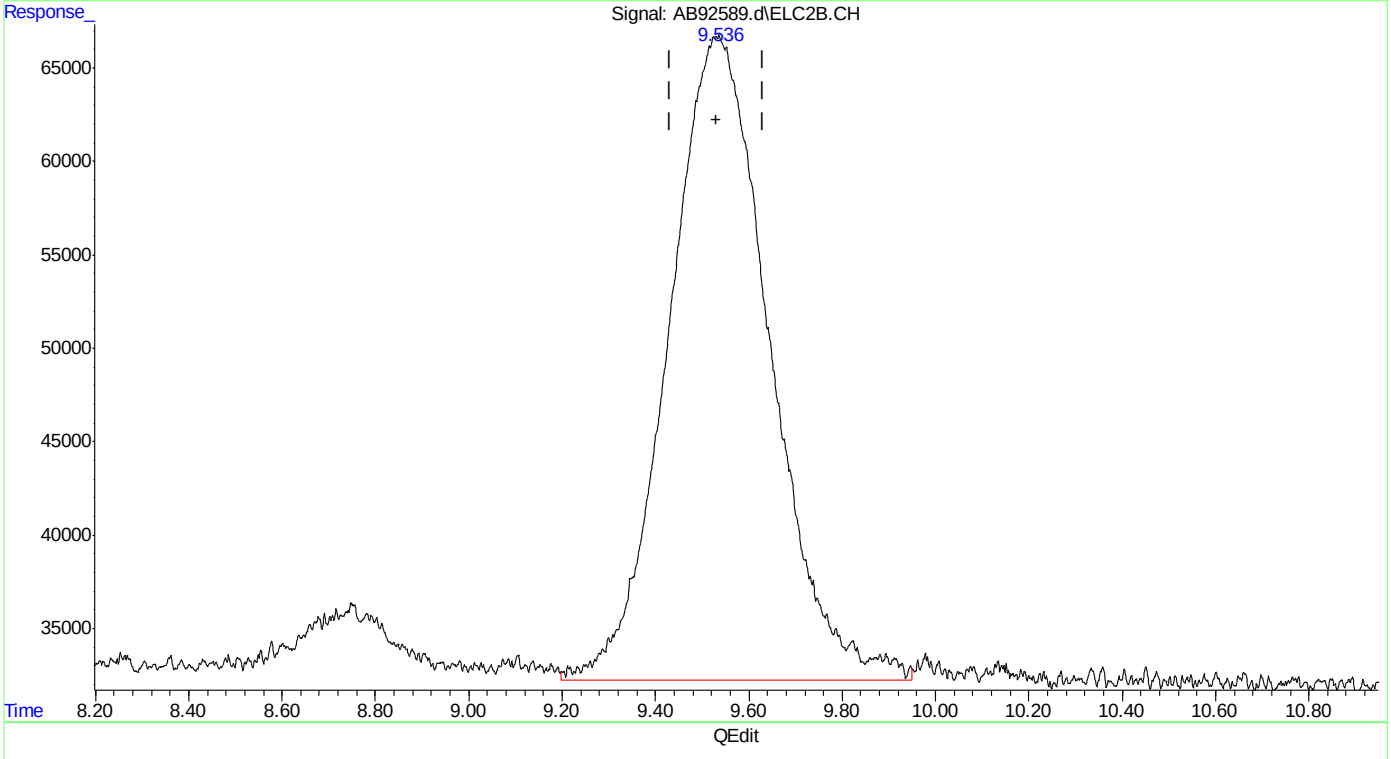
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:06 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.536min 10.043 ppb m
response 5190787

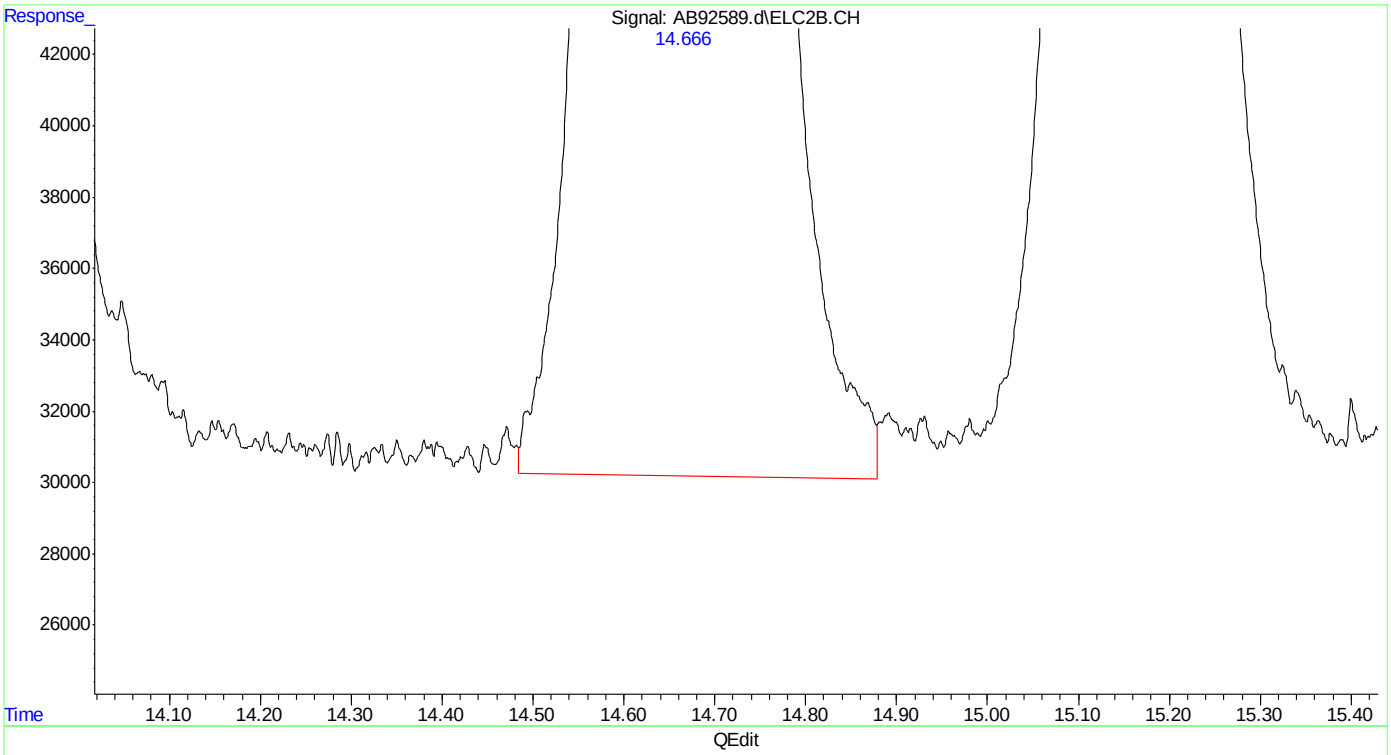
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
14.665min 9.853 ppb
response 13860278

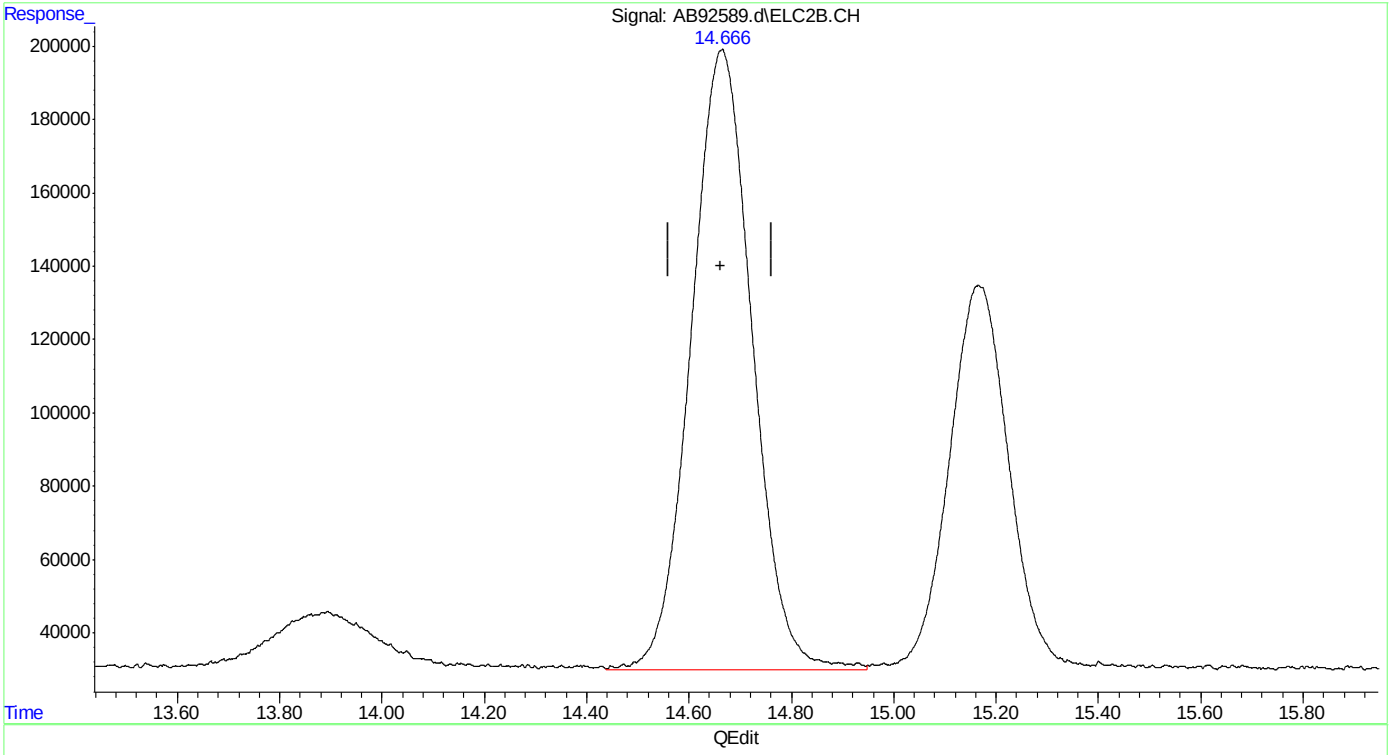
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
14.666min 9.931 ppb m
response 13970184

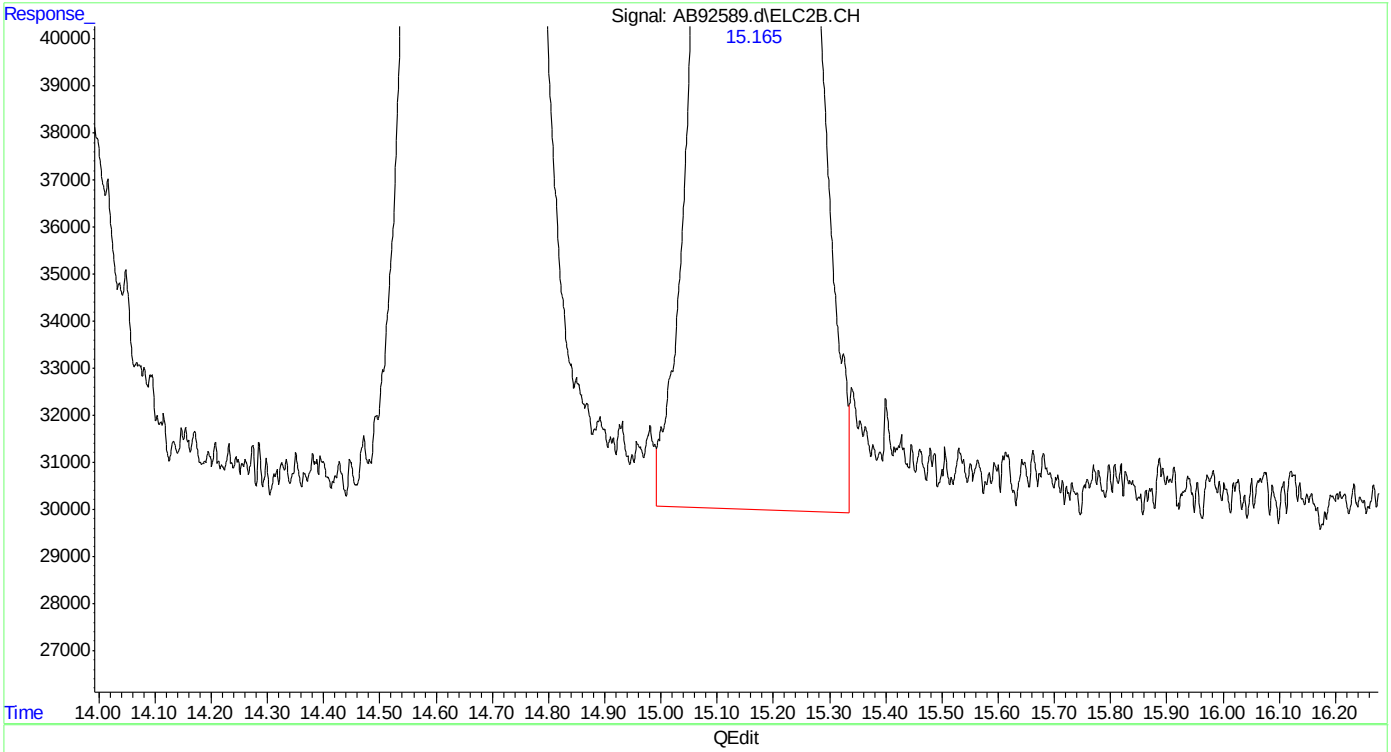
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:53 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
15.165min 9.397 ppb
response 8425578

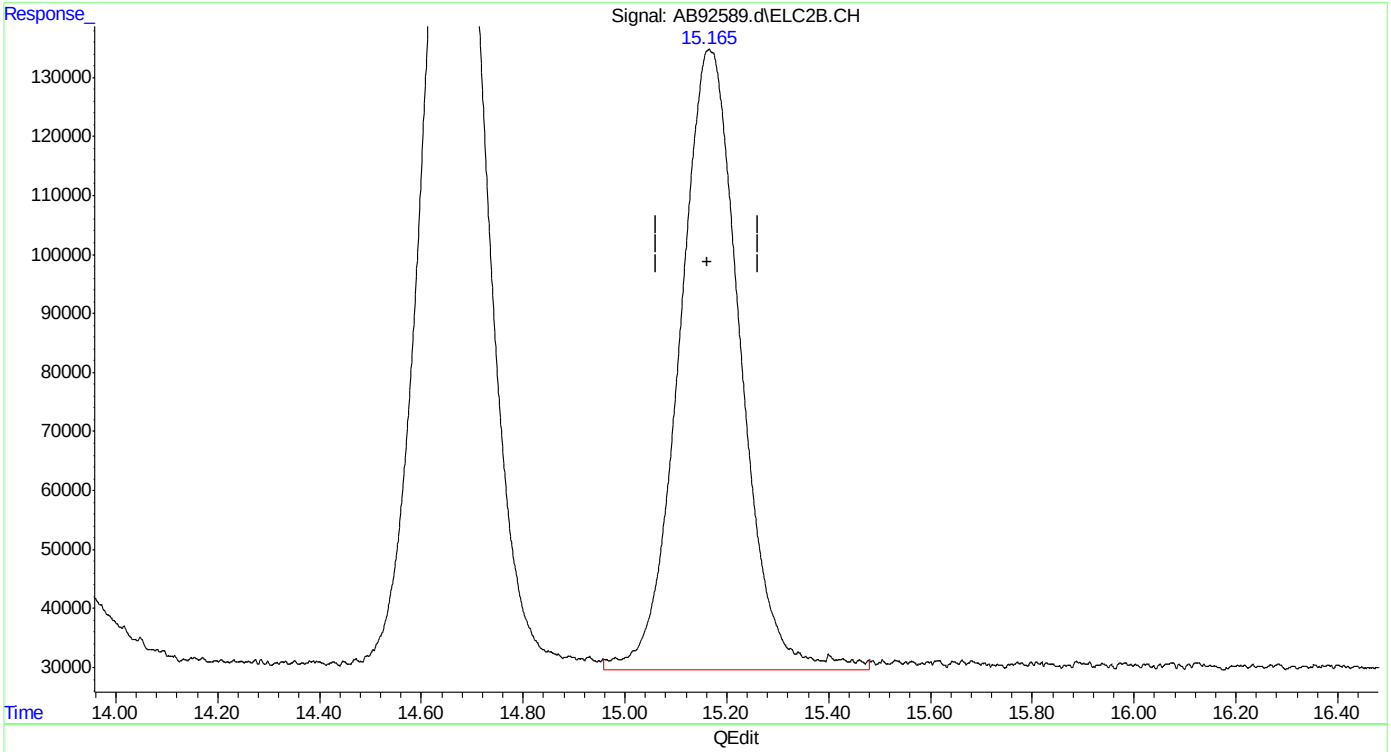
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
15.165min 9.692 ppb m
response 8690415

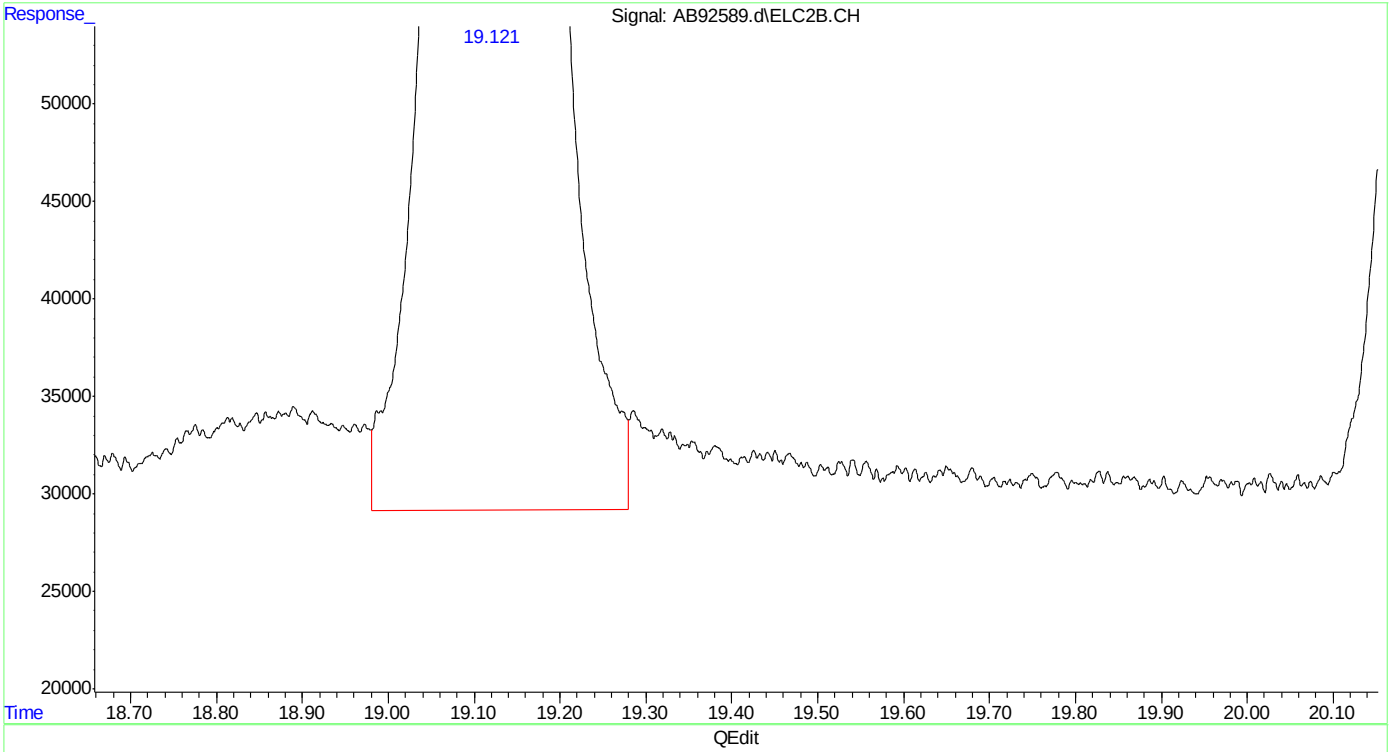
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
19.122min 10.232 ppb
response 12364517

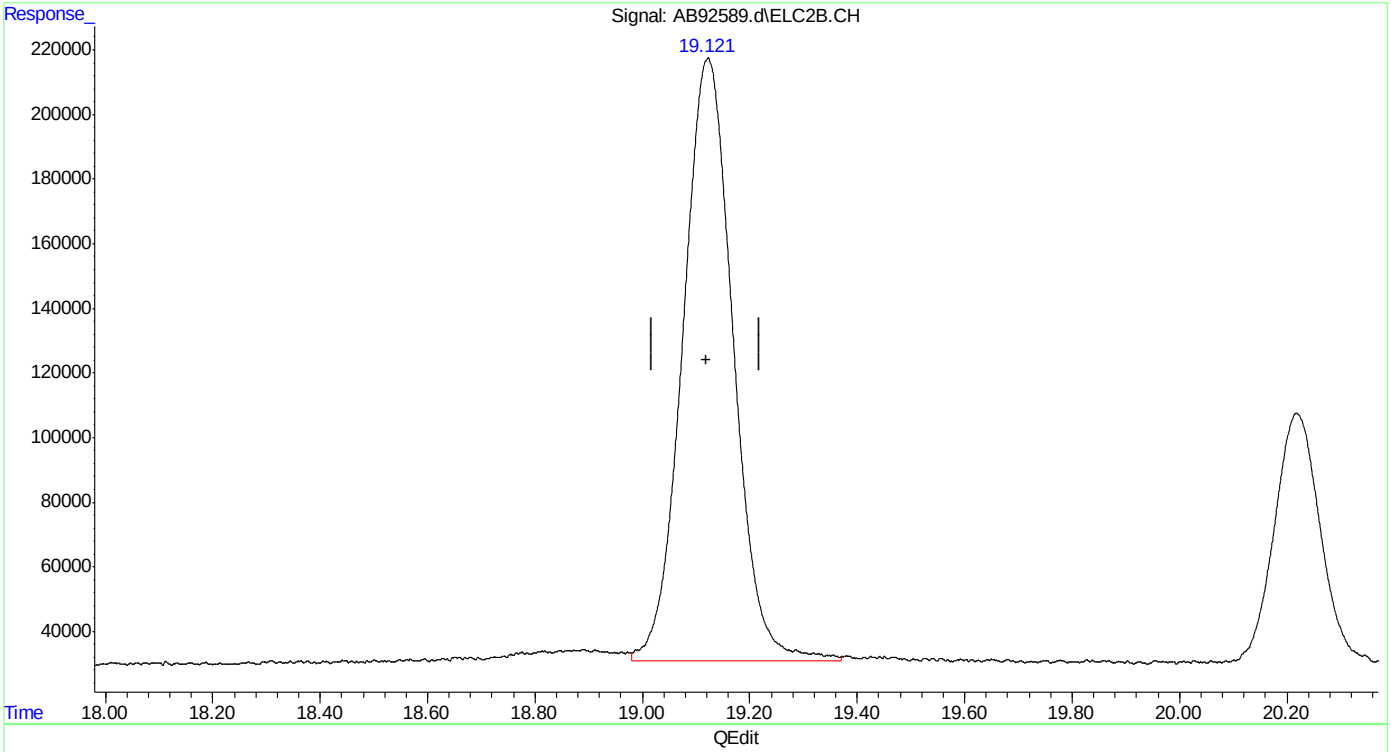
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
19.121min 10.073 ppb m
response 12172198

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:33 2016

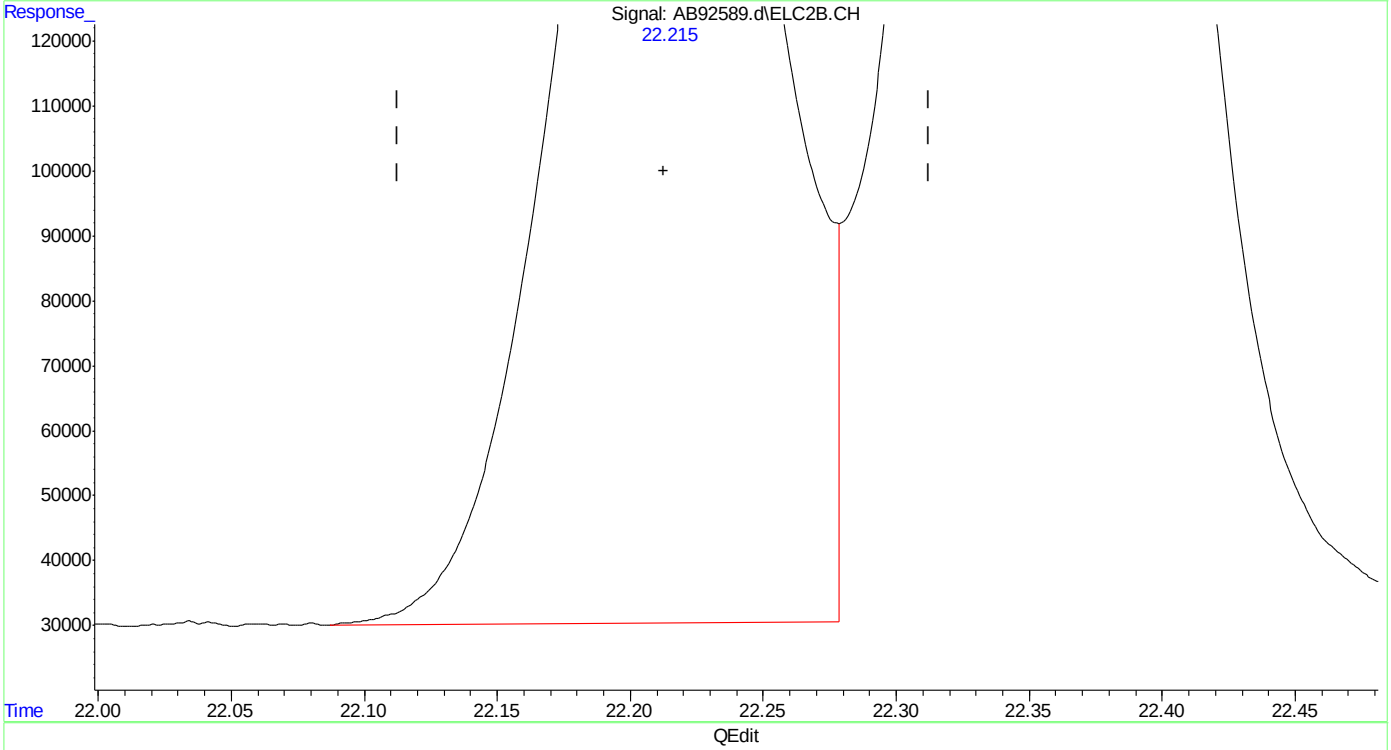
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(28) ethylbenzene #2
22.215min 9.903 ppb
response 9888665

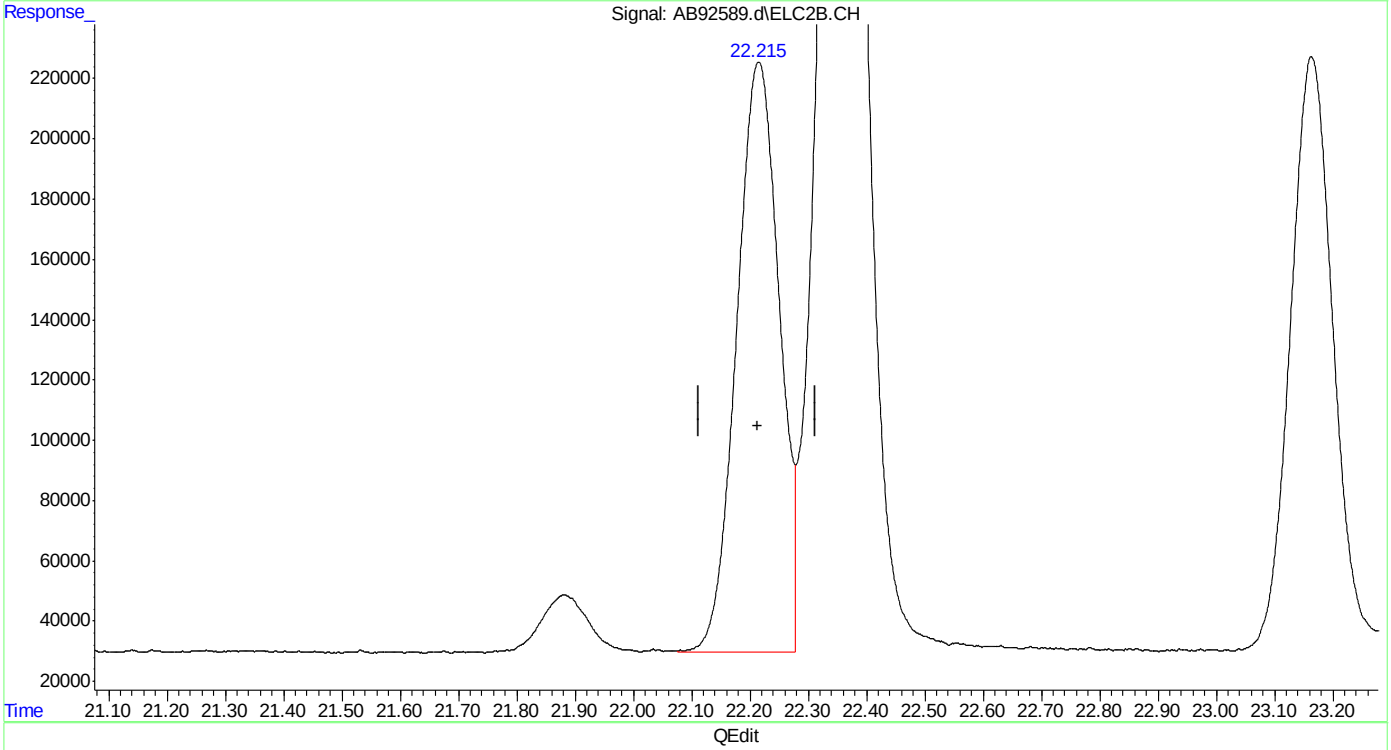
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(28) ethylbenzene #2
22.215min 9.999 ppb m
response 9984696

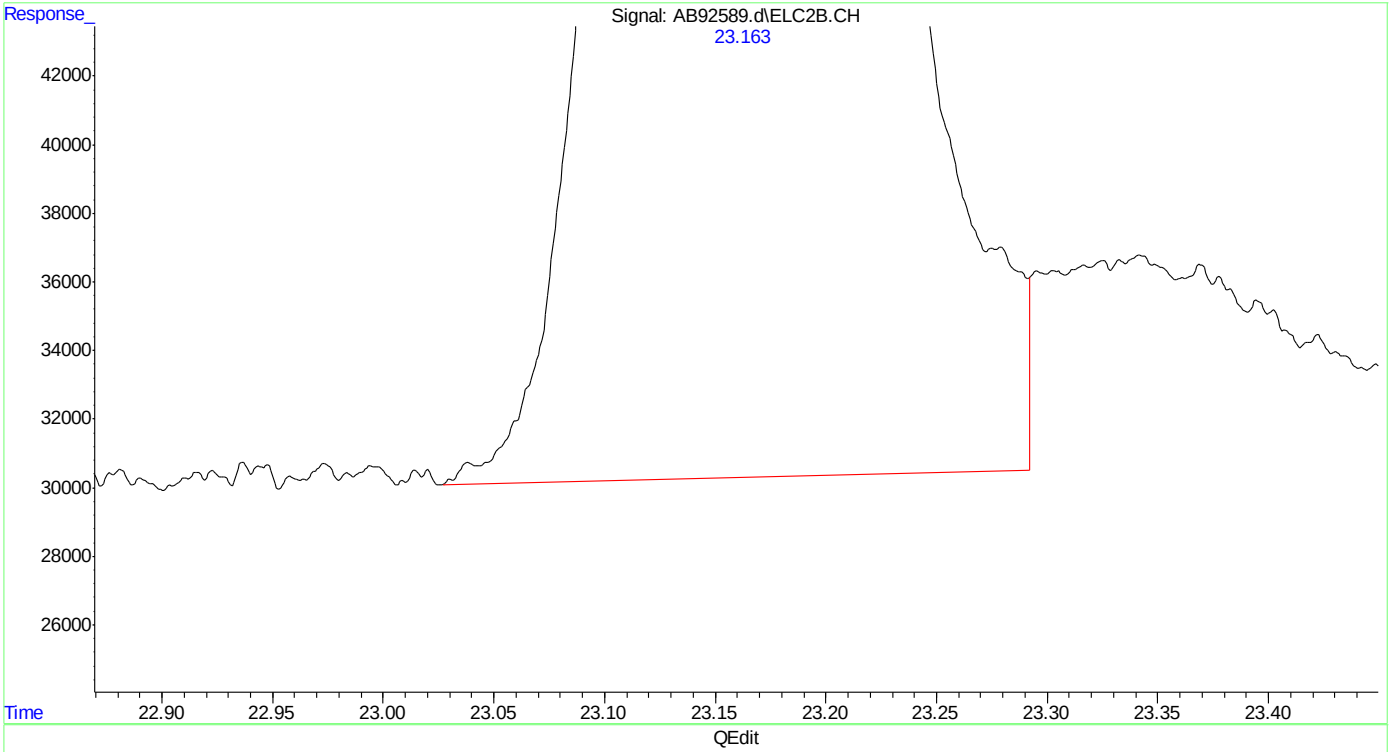
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(30) o-xylene #2
23.163min 9.905 ppb
response 10037806

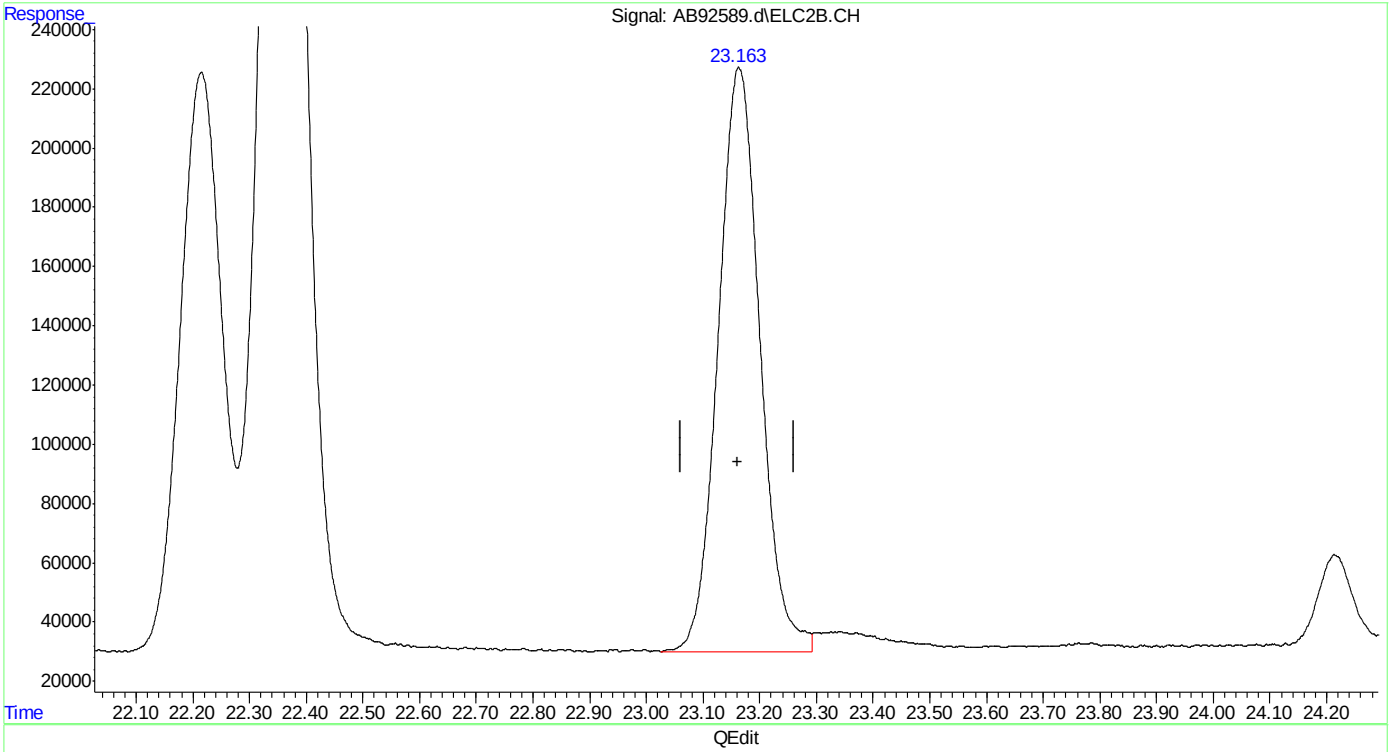
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:57 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(30) o-xylene #2
23.163min 9.945 ppb m
response 10078357

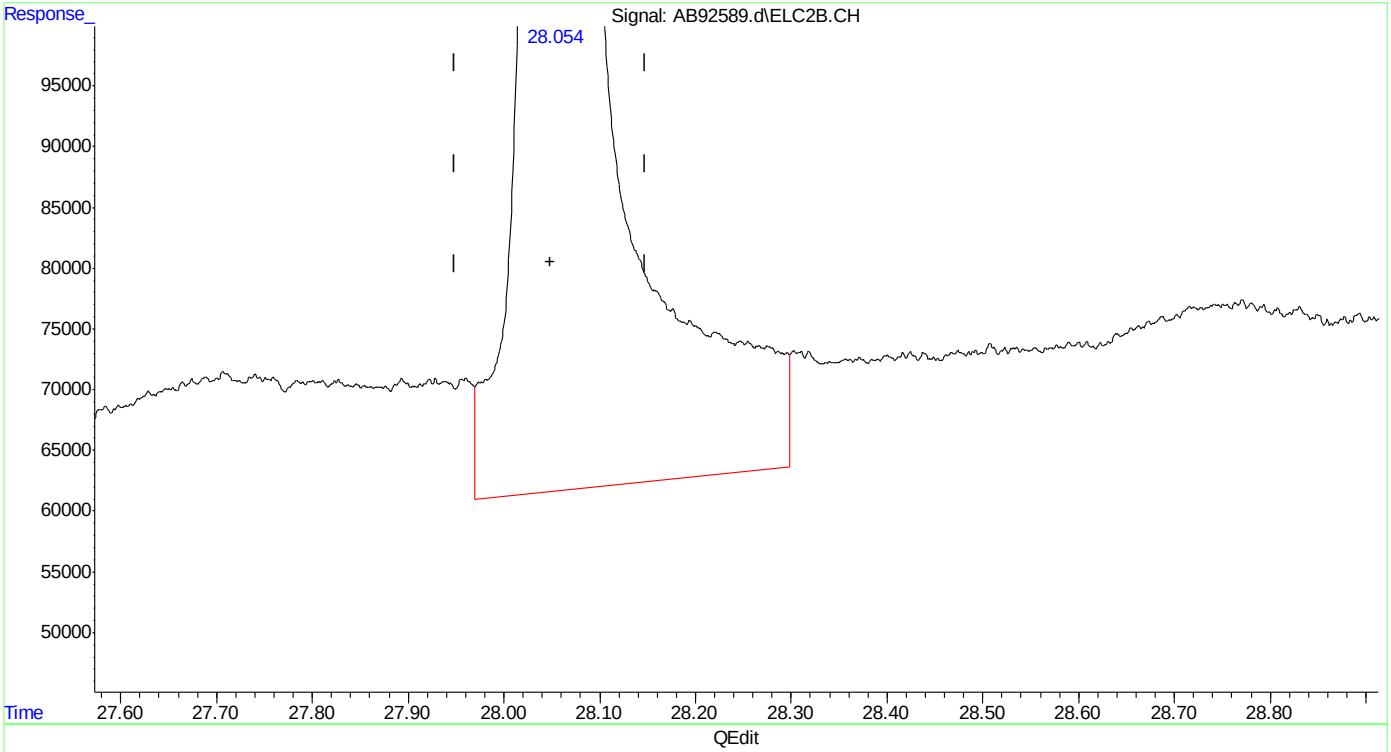
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:12:07 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.054min 13.694 ppb
response 10317491

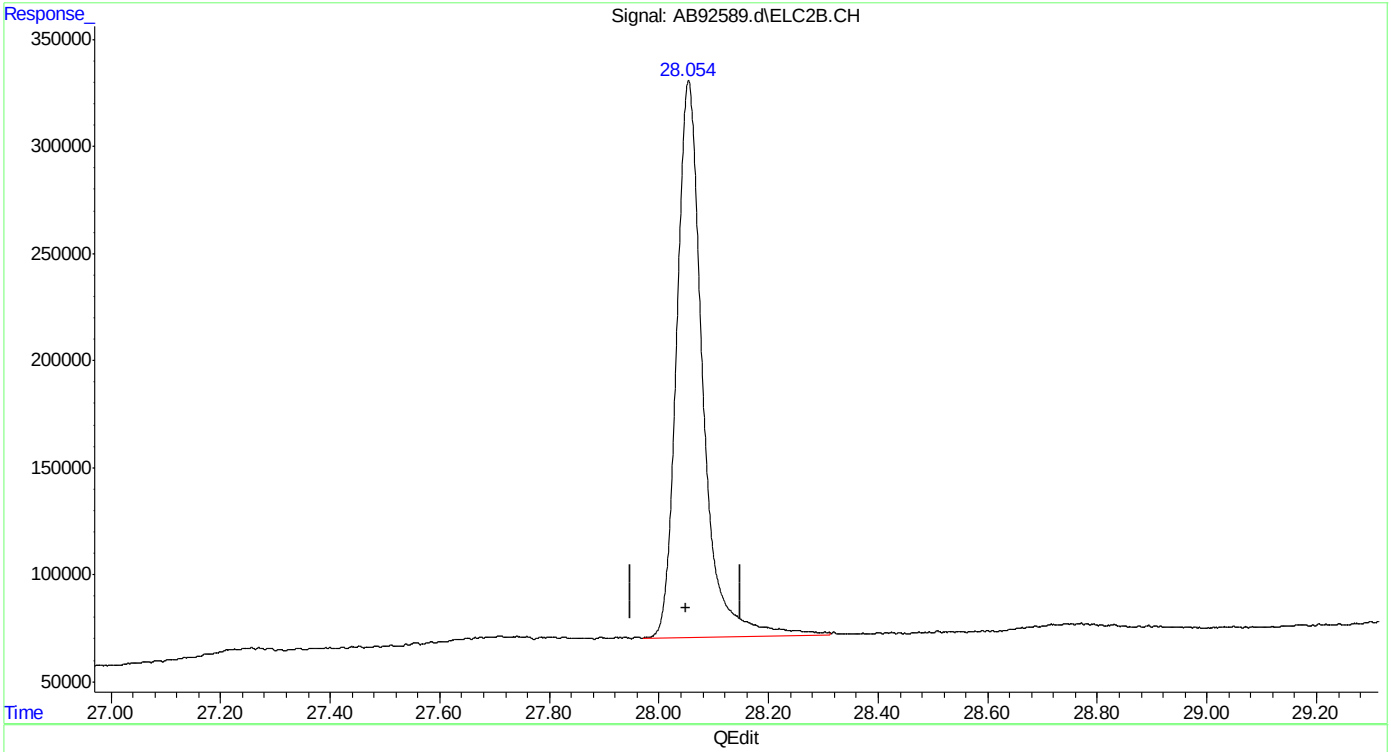
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:12:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.054min 11.424 ppb m
response 8606987

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:12:34 2016

AB92590.D

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:21:11 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	15.172	2200101	5.009 ppb	m
Spiked Amount 50.000		Recovery =	10.02%	
9) s 2,3,4-trifluorotoluene	20.226	2067831	5.031 ppb	
Spiked Amount 50.000		Recovery =	10.06%	
25) s fluorobenzene #2	15.171	4291225	4.861 ppb	
Spiked Amount 50.000		Recovery =	9.72%	
27) s 2,3,4-trifluorotoluen...	20.223	2393092	5.071 ppb	m
Spiked Amount 50.000		Recovery =	10.14%	
Target Compounds				
1) h rt5.5-7	6.370	1948123	5.386 ppb	m
2) h rt7/10	8.710	2254884	5.437 ppb	m
3) mtbe	9.545	1116791	5.086 ppb	m
4) h rt10/13	13.890	2659091	5.762 ppb	m
5) benzene	14.667	2826290	5.096 ppb	
8) toluene	19.126	3128391	5.137 ppb	m
11) h rt20/25	21.900	3202956	5.325 ppb	m
13) ethylbenzene	22.220	3304644	5.084 ppb	m
14) m,p-xylene	22.364	6912378	10.236 ppb	
15) o-xylene	23.168	3460195	5.112 ppb	m
16) h decane	24.230	3274046	5.339 ppb	m
17) t 1,3,5-trimethylbenzene	24.595	3652478	5.118 ppb	
18) 1,2,4-trimethylbenzene	25.113	3525706	5.198 ppb	
19) h butylcyclohexane	25.263	3520100	5.375 ppb	m
20) naphthalene	28.062	1936540	5.278 ppb	m
23) mtbe #2	9.529	2603992	5.027 ppb	m
24) benzene #2	14.666	7007038	4.998 ppb	
26) toluene #2	19.125	6163190	5.082 ppb	m
28) ethylbenzene #2	22.219	4988642	4.996 ppb	m
29) m,p-xylene #2	22.362	12375835	10.146 ppb	
30) o-xylene #2	23.167	5064076	5.011 ppb	
31) t 1,3,5-trimethylbenzen...	24.593	7113412	4.944 ppb	
32) 1,2,4-trimethylbenzen...	25.110	5356131	5.075 ppb	m
33) naphthalene #2	28.059	4141853	5.132 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	5353469	5.044 ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
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Acq On : 12-Jan-16, 12:10:22
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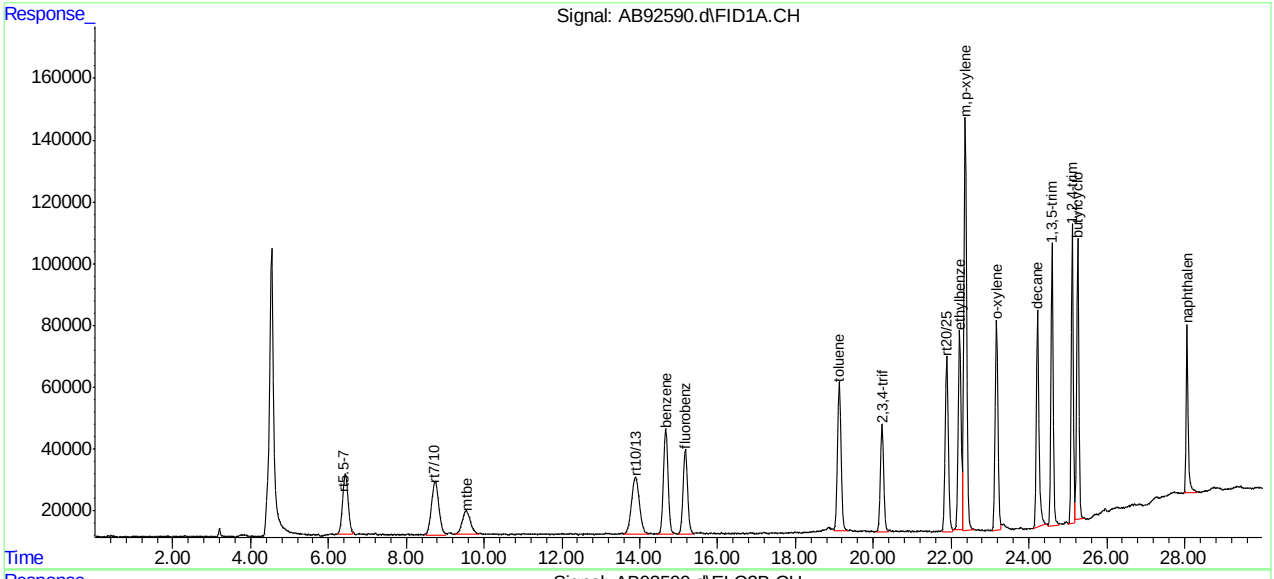
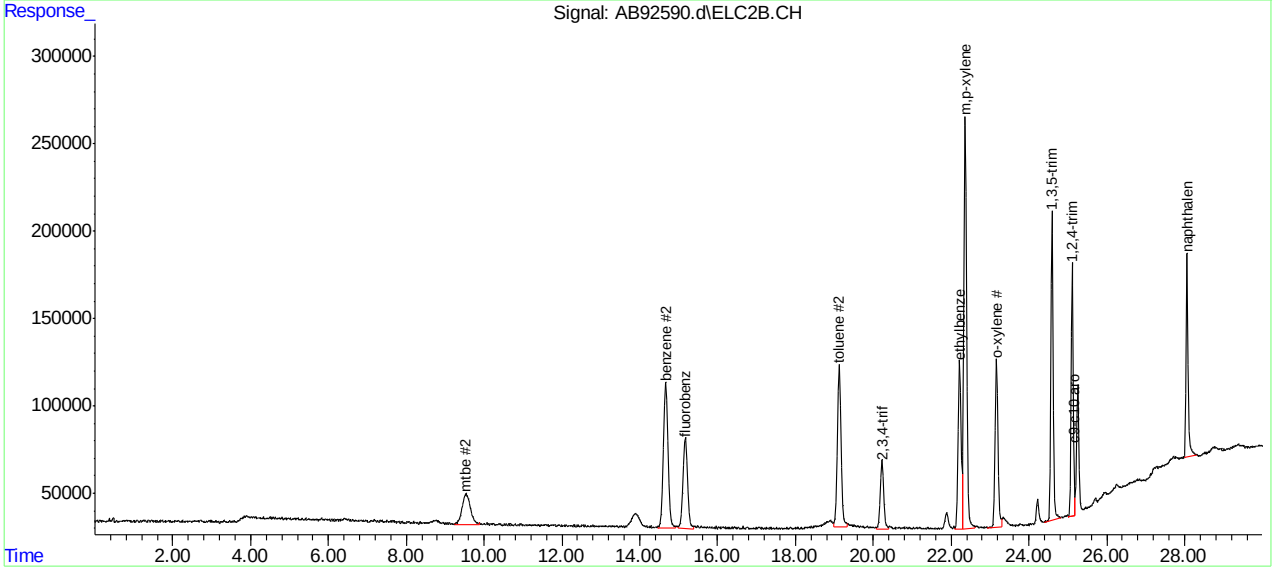
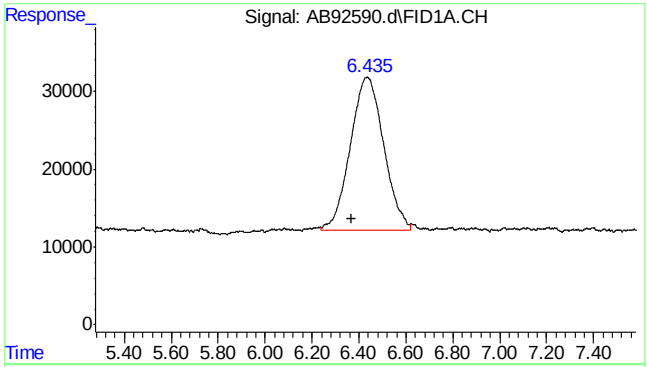
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

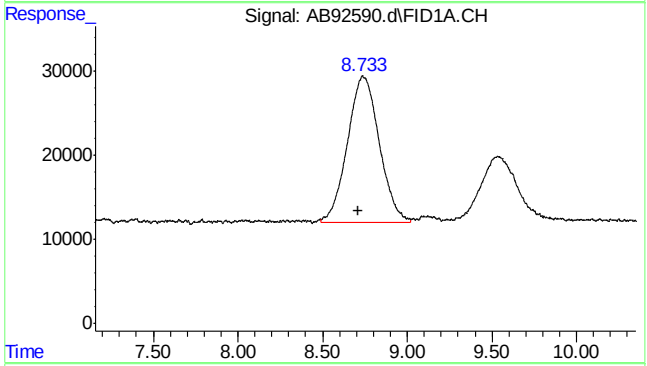






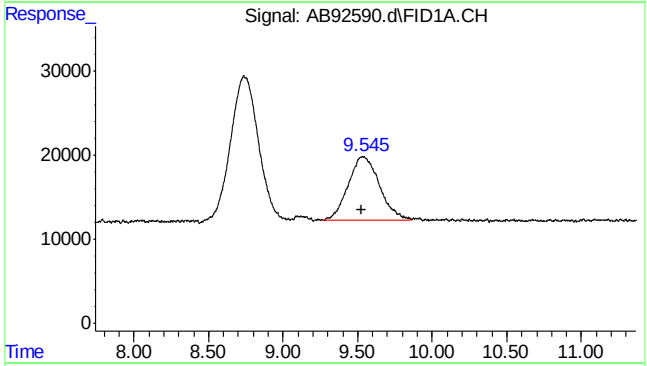
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 1948123
Conc: 5.39 ppb m



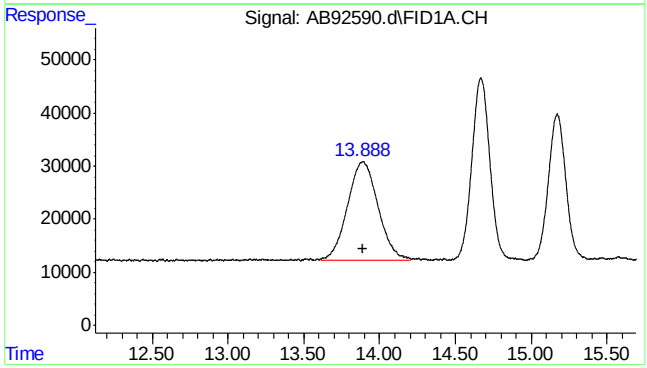
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 2254884
Conc: 5.44 ppb m



#3 mtbe

R.T.: 9.545 min
Delta R.T.: 0.014 min
Response: 1116791
Conc: 5.09 ppb m



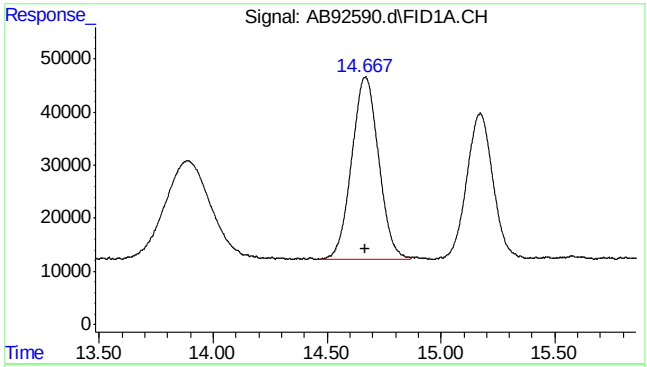
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 2659091
Conc: 5.76 ppb m

7.5.7

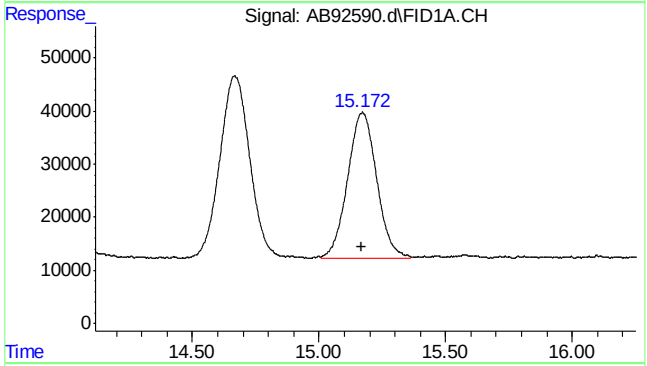
7

SGS ACCUTEST MC45816A



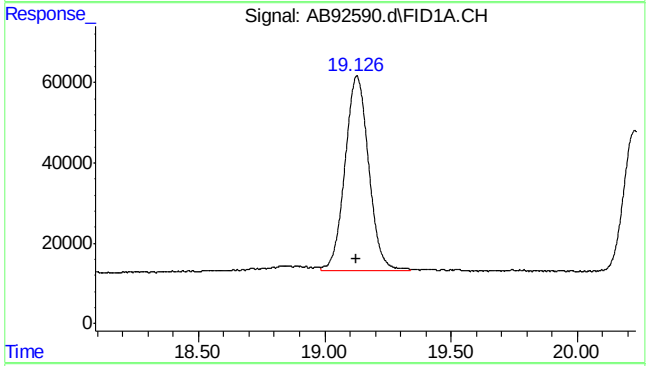
#5 benzene

R.T.: 14.667 min
Delta R.T.: 0.002 min
Response: 2826290
Conc: 5.10 ppb



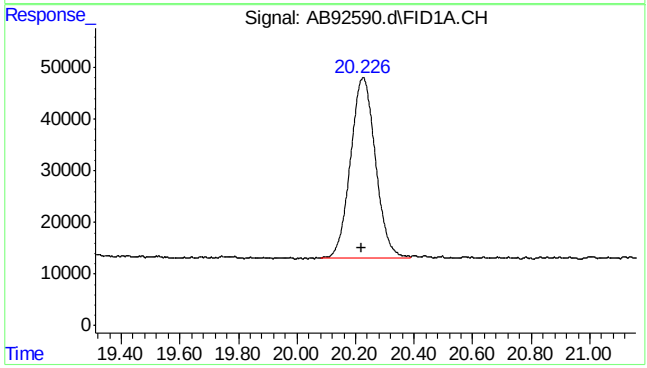
#6 fluorobenzene

R.T.: 15.172 min
Delta R.T.: 0.004 min
Response: 2200101
Conc: 5.01 ppb m



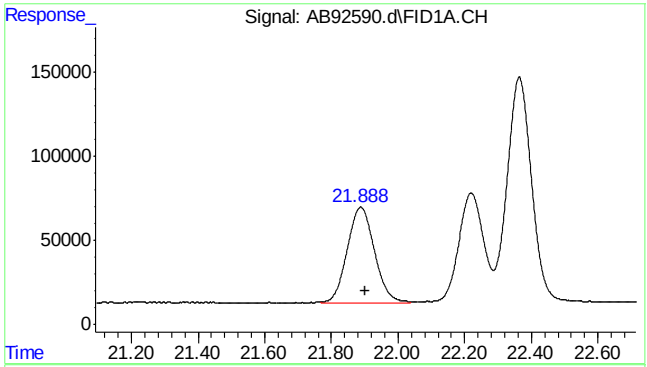
#8 toluene

R.T.: 19.126 min
Delta R.T.: 0.002 min
Response: 3128391
Conc: 5.14 ppb m



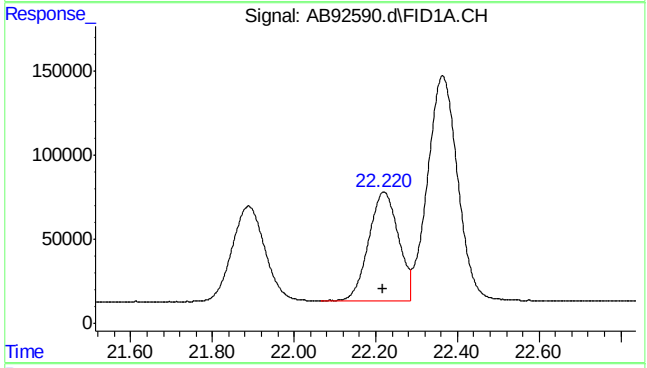
#9 2,3,4-trifluorotoluene

R.T.: 20.226 min
Delta R.T.: 0.006 min
Response: 2067831
Conc: 5.03 ppb



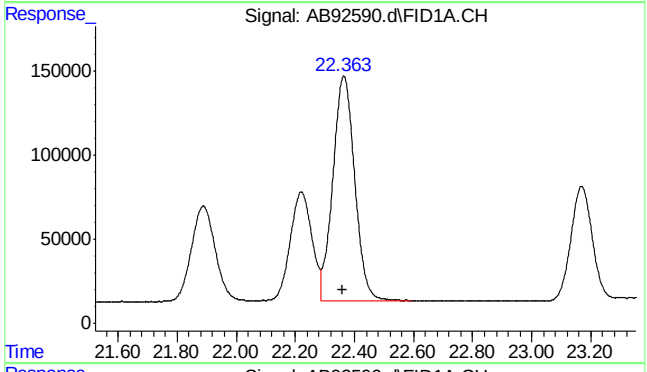
#11 rt20/25

```
      R.T.:   21.900 min
Delta R.T.:    0.000 min
  Response:   3202956
      Conc:   5.33 ppb m
```



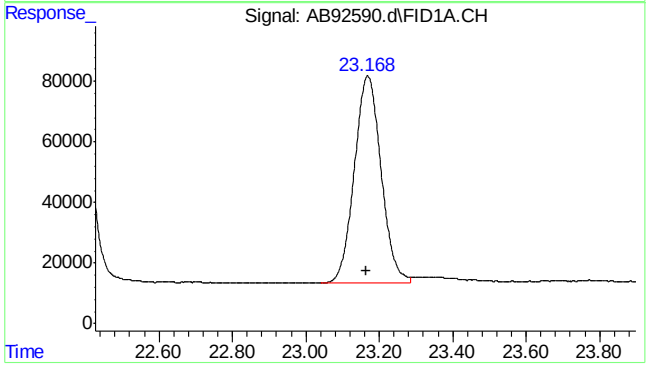
#13 ethylbenzene

```
      R.T.:   22.220 min
Delta R.T.:    0.003 min
  Response:   3304644
      Conc:   5.08 ppb m
```



#14 m,p-xylene

```
      R.T.:   22.364 min
Delta R.T.:    0.003 min
  Response:   6912378
      Conc:  10.24 ppb
```



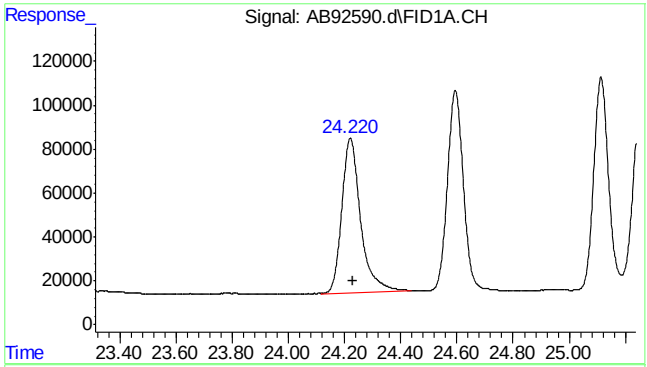
#15 o-xylene

```
      R.T.:   23.168 min
Delta R.T.:    0.003 min
  Response:   3460195
      Conc:   5.11 ppb m
```

7.5.7

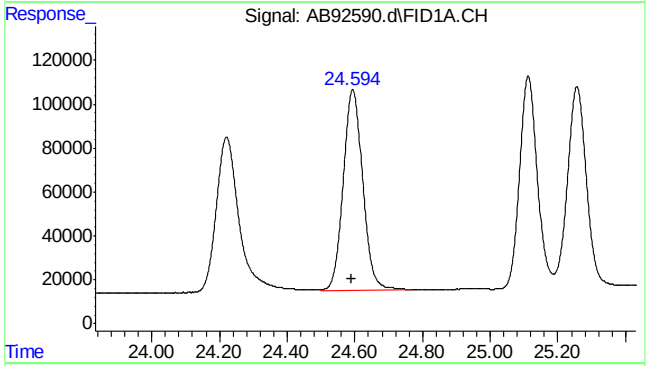
7

SGS ACCUTEST MC45816A



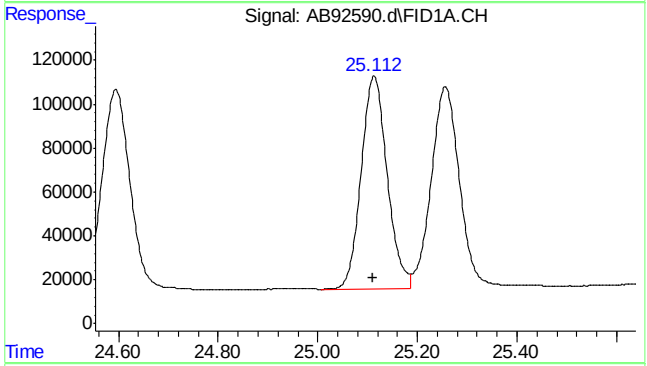
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 3274046
Conc: 5.34 ppb m



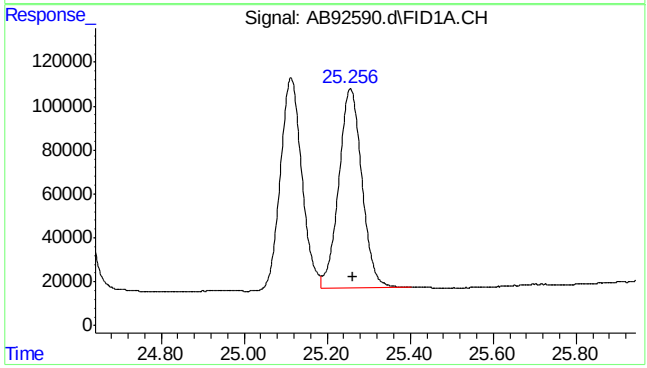
#17 1,3,5-trimethylbenzene

R.T.: 24.595 min
Delta R.T.: 0.003 min
Response: 3652478
Conc: 5.12 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.113 min
Delta R.T.: 0.003 min
Response: 3525706
Conc: 5.20 ppb

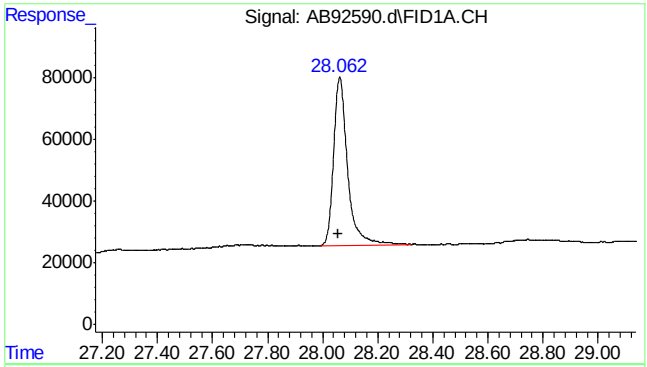


#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 3520100
Conc: 5.38 ppb m

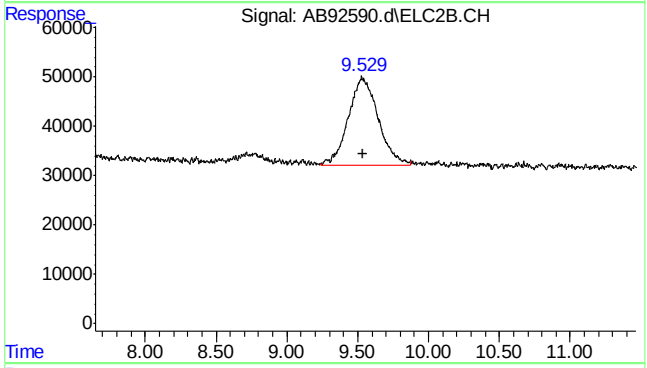
7.5.7

7



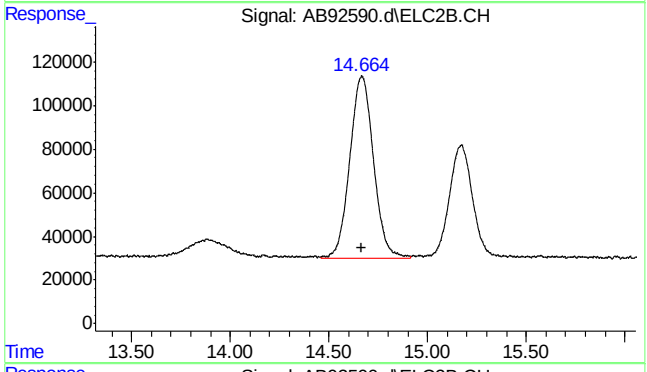
#20 naphthalene

R.T.: 28.062 min
Delta R.T.: 0.006 min
Response: 1936540
Conc: 5.28 ppb m



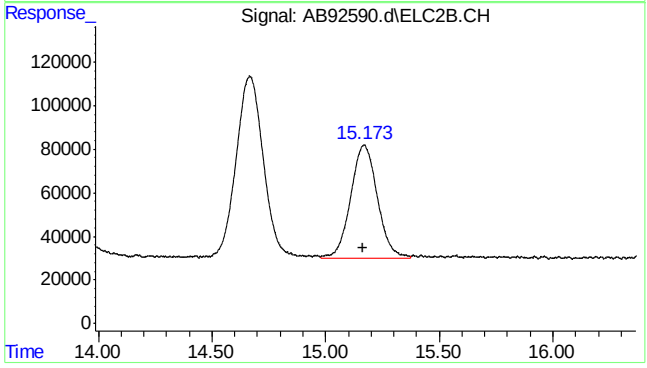
#23 mtbe #2

R.T.: 9.529 min
Delta R.T.: -0.007 min
Response: 2603992
Conc: 5.03 ppb m



#24 benzene #2

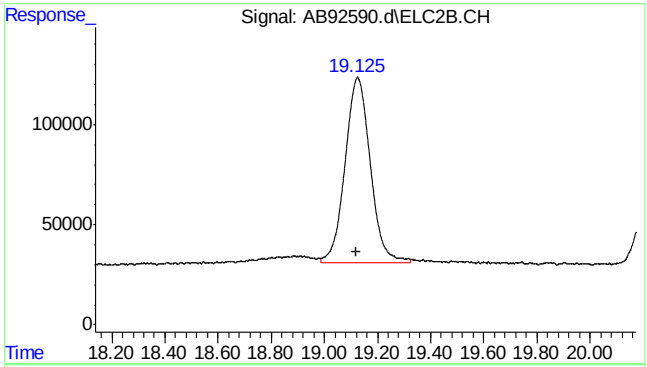
R.T.: 14.666 min
Delta R.T.: 0.000 min
Response: 7007038
Conc: 5.00 ppb



#25 fluorobenzene #2

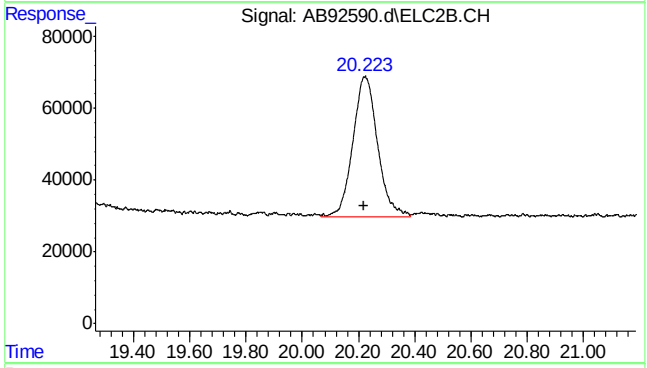
R.T.: 15.171 min
Delta R.T.: 0.006 min
Response: 4291225
Conc: 4.86 ppb

SGS ACCUTEST MC45816A



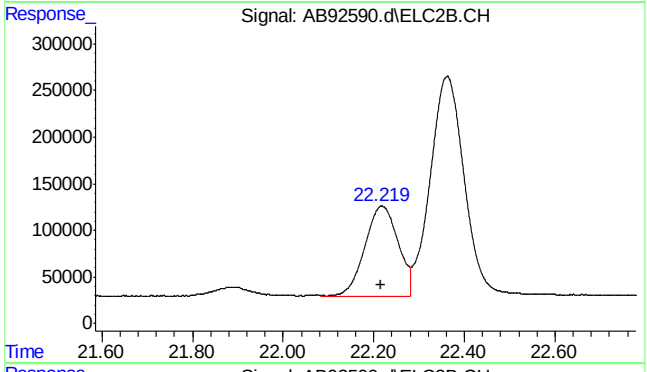
#26 toluene #2

R.T.: 19.125 min
Delta R.T.: 0.004 min
Response: 6163190
Conc: 5.08 ppb m



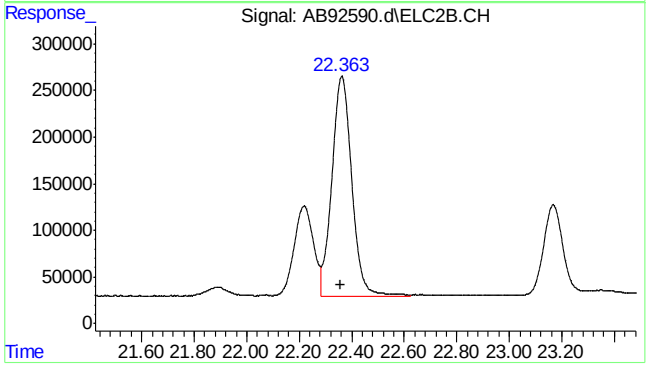
#27 2,3,4-trifluorotoluene #2

R.T.: 20.223 min
Delta R.T.: 0.005 min
Response: 2393092
Conc: 5.07 ppb m



#28 ethylbenzene #2

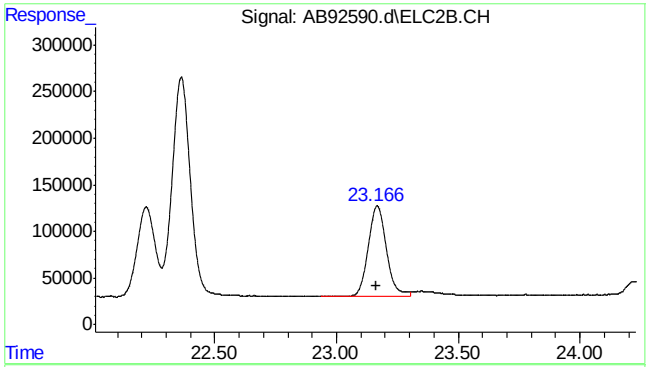
R.T.: 22.219 min
Delta R.T.: 0.004 min
Response: 4988642
Conc: 5.00 ppb m



#29 m,p-xylene #2

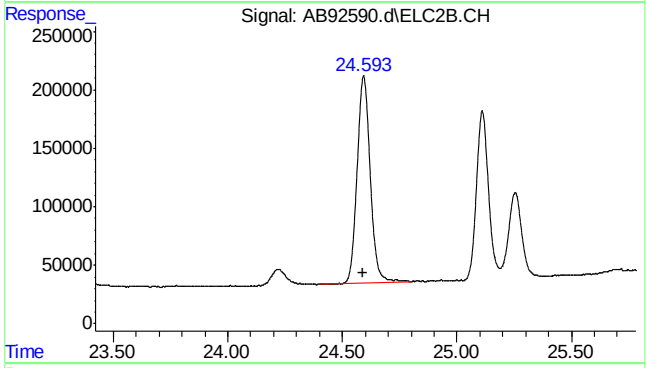
R.T.: 22.362 min
Delta R.T.: 0.004 min
Response: 12375835
Conc: 10.15 ppb

SGS ACCUTEST MC45816A



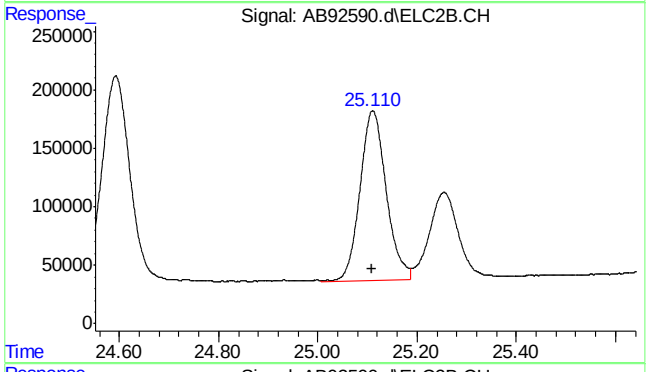
#30 o-xylene #2

R.T.: 23.167 min
Delta R.T.: 0.004 min
Response: 5064076
Conc: 5.01 ppb



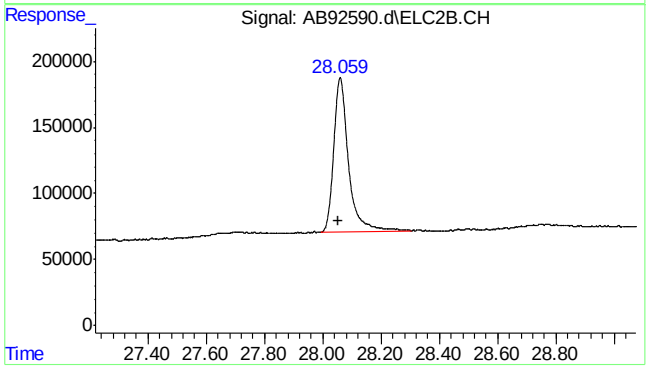
#31 1,3,5-trimethylbenzene #2

R.T.: 24.593 min
Delta R.T.: 0.003 min
Response: 7113412
Conc: 4.94 ppb



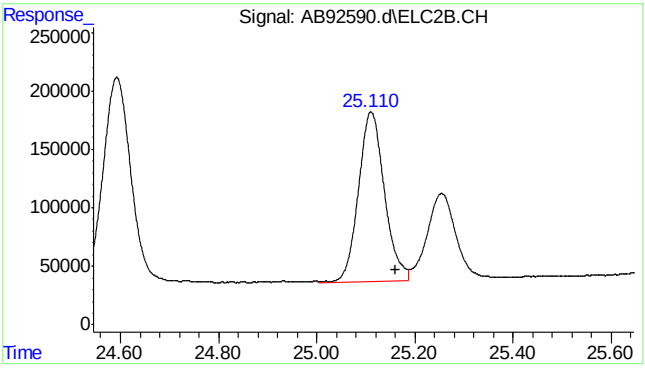
#32 1,2,4-trimethylbenzene #2

R.T.: 25.110 min
Delta R.T.: 0.002 min
Response: 5356131
Conc: 5.07 ppb m



#33 naphthalene #2

R.T.: 28.059 min
Delta R.T.: 0.005 min
Response: 4141853
Conc: 5.13 ppb m




```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response:   5353469
      Conc:   5.04 ppb m
```

7.5.7

7

SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
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Operator : haleyn
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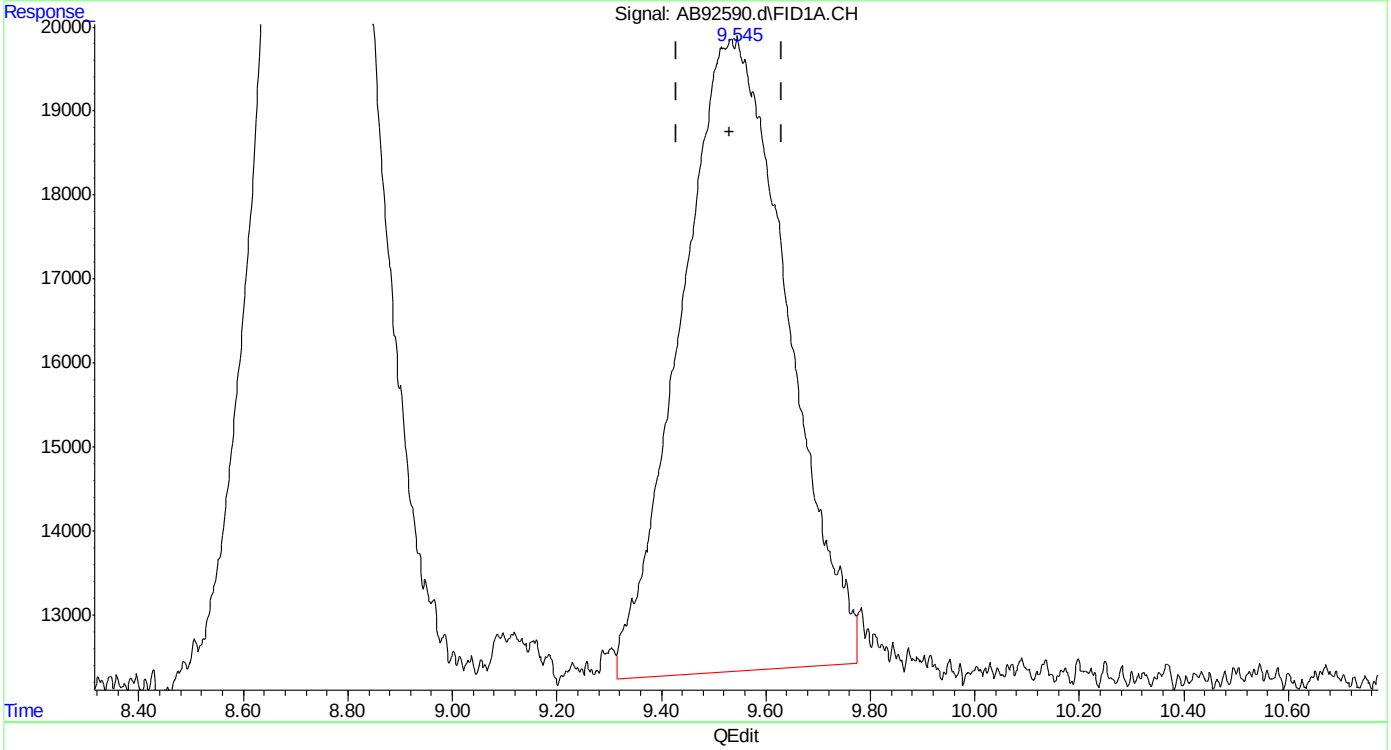
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
9.545min 4.876 ppb
response 1070624

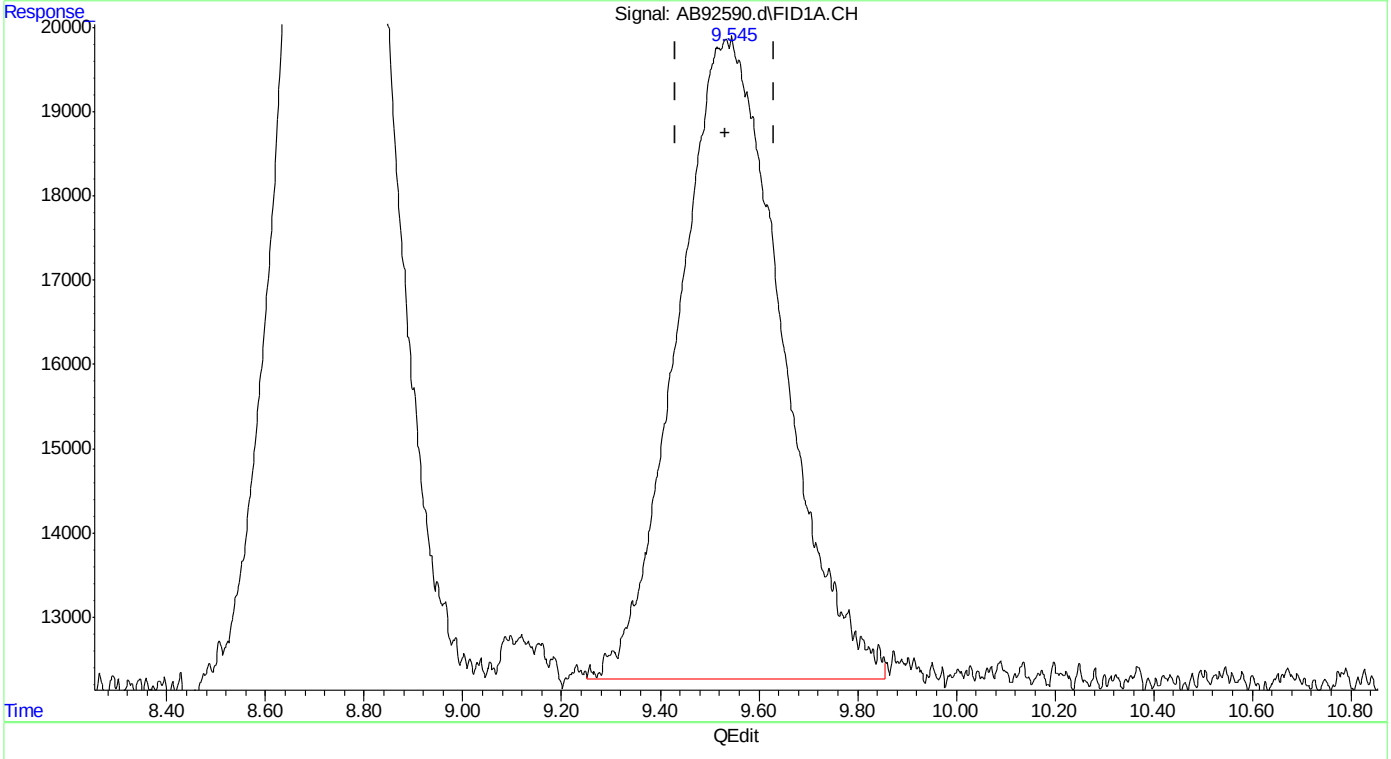
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:41:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
9.545min 5.086 ppb m
response 1116791

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:41:34 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(6) fluorobenzene (s)
15.172min 4.976 ppb
response 2185883

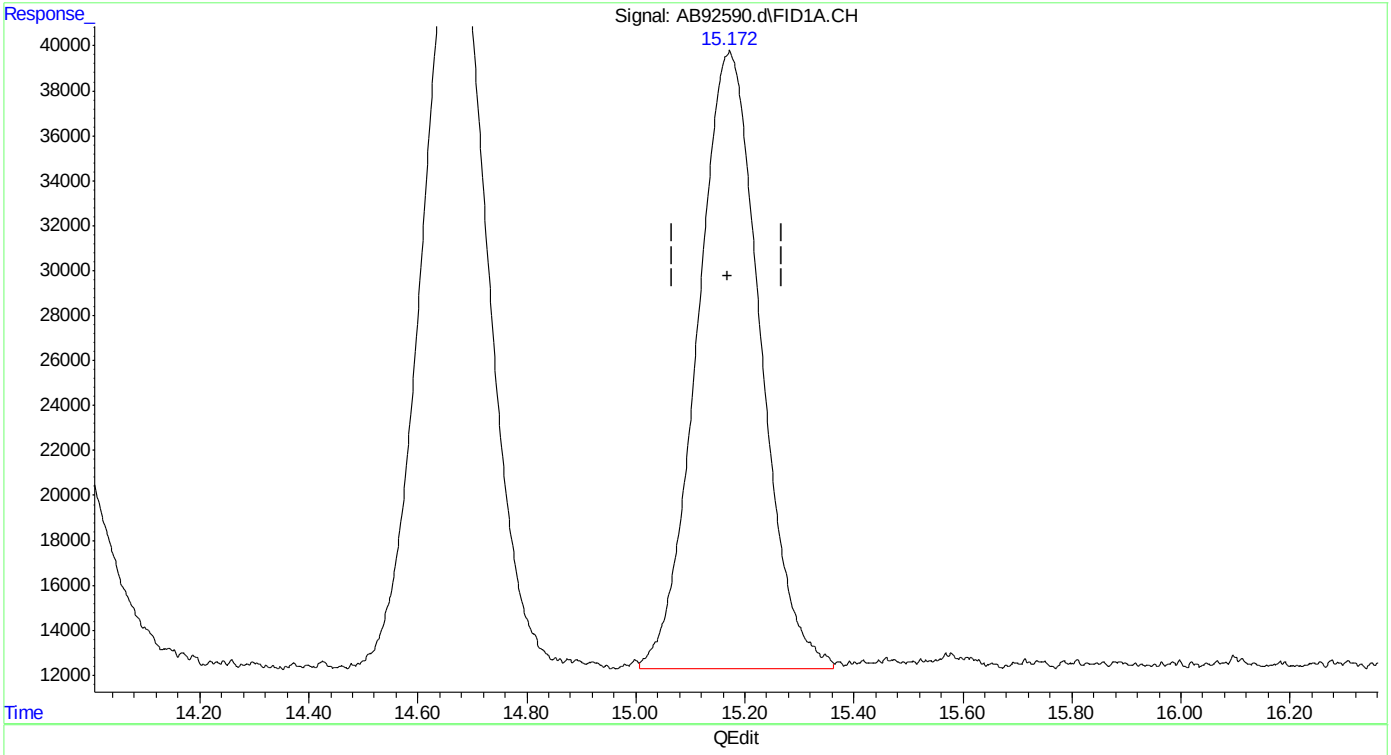
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) fluorobenzene (s)
15.172min 5.009 ppb m
response 2200101

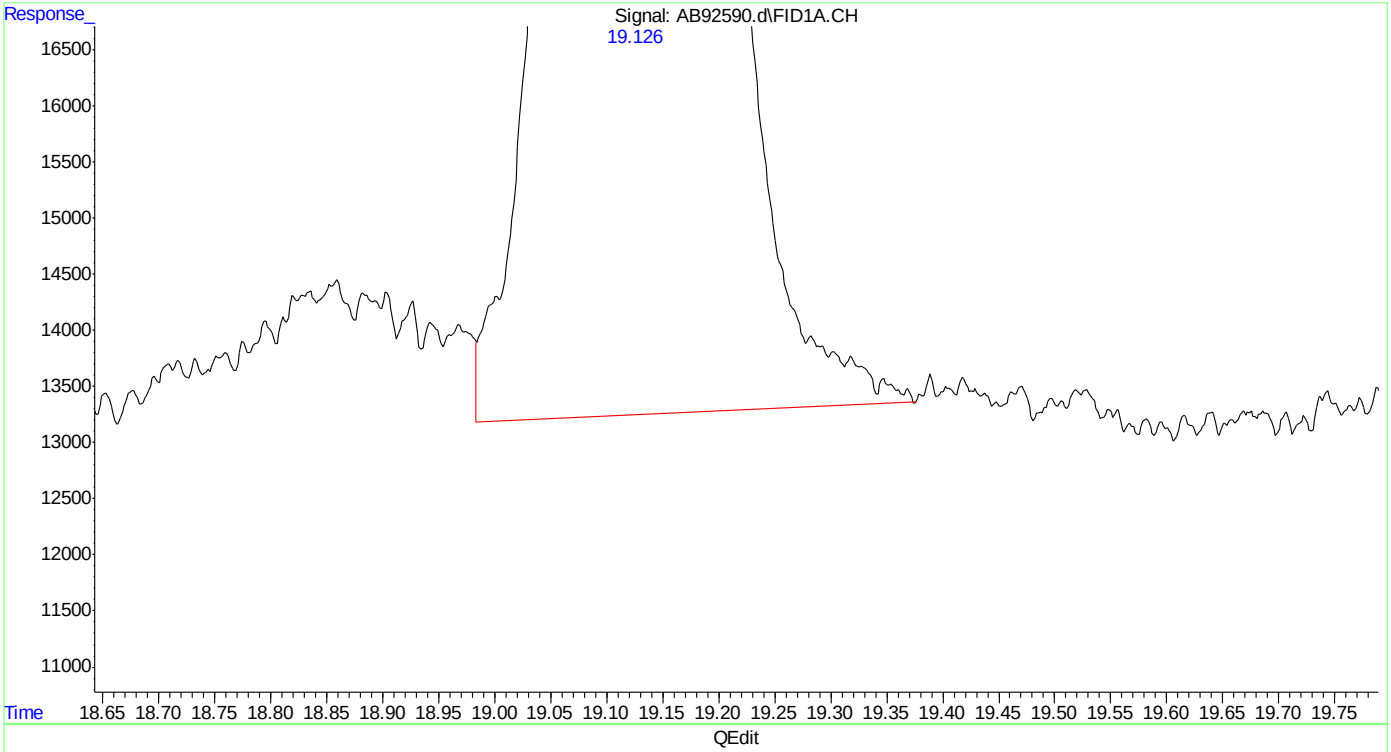
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
19.127min 5.170 ppb
response 3148368

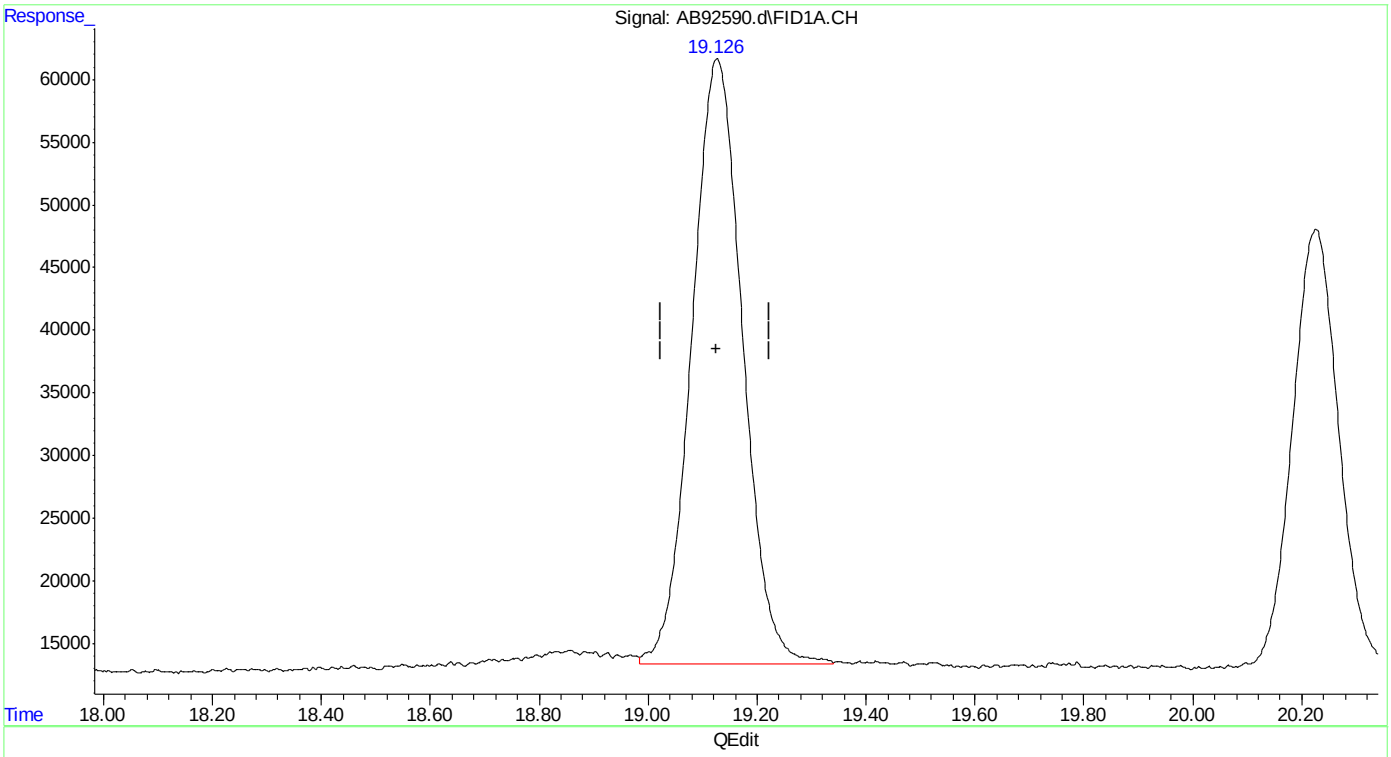
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:42:13 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
19.126min 5.137 ppb m
response 3128391

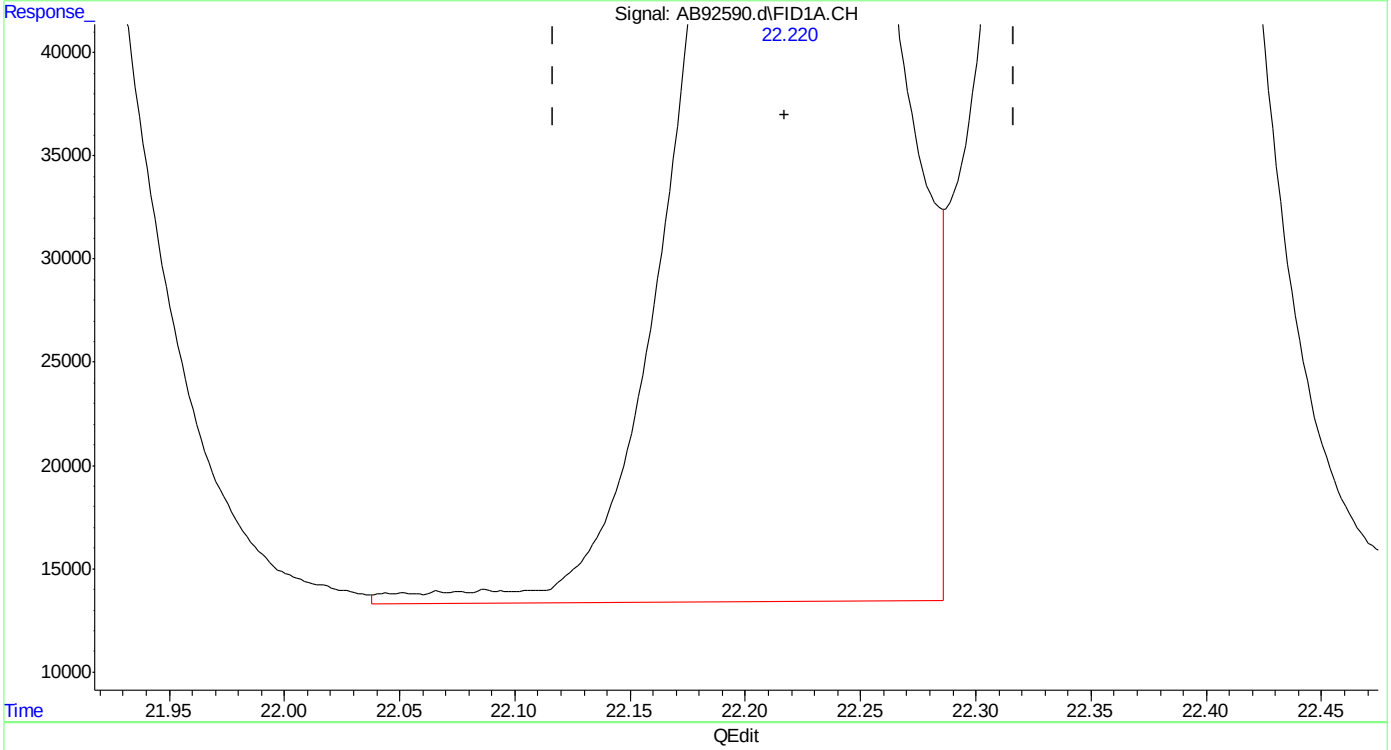
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(13) ethylbenzene
22.220min 5.137 ppb
response 3338824

(+) = Expected Retention Time

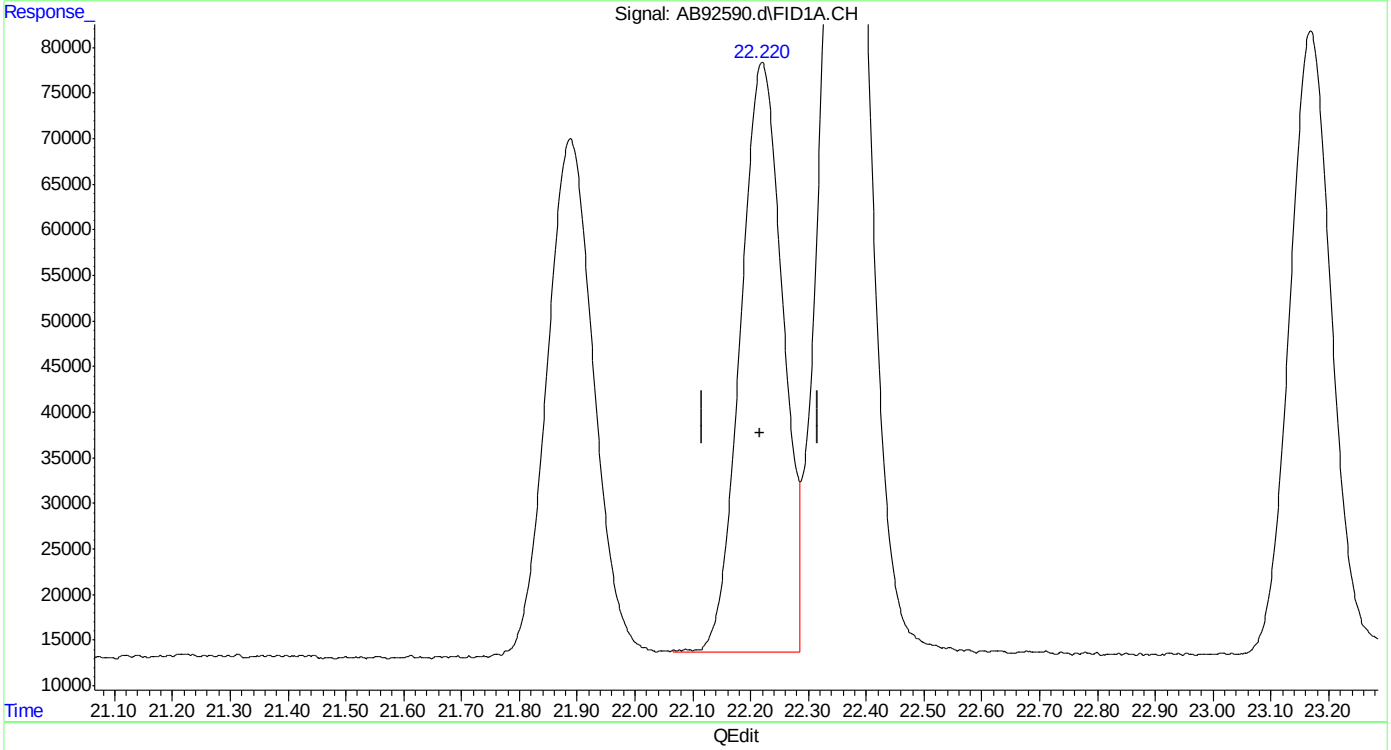
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(13) ethylbenzene
22.220min 5.084 ppb m
response 3304644

(+) = Expected Retention Time

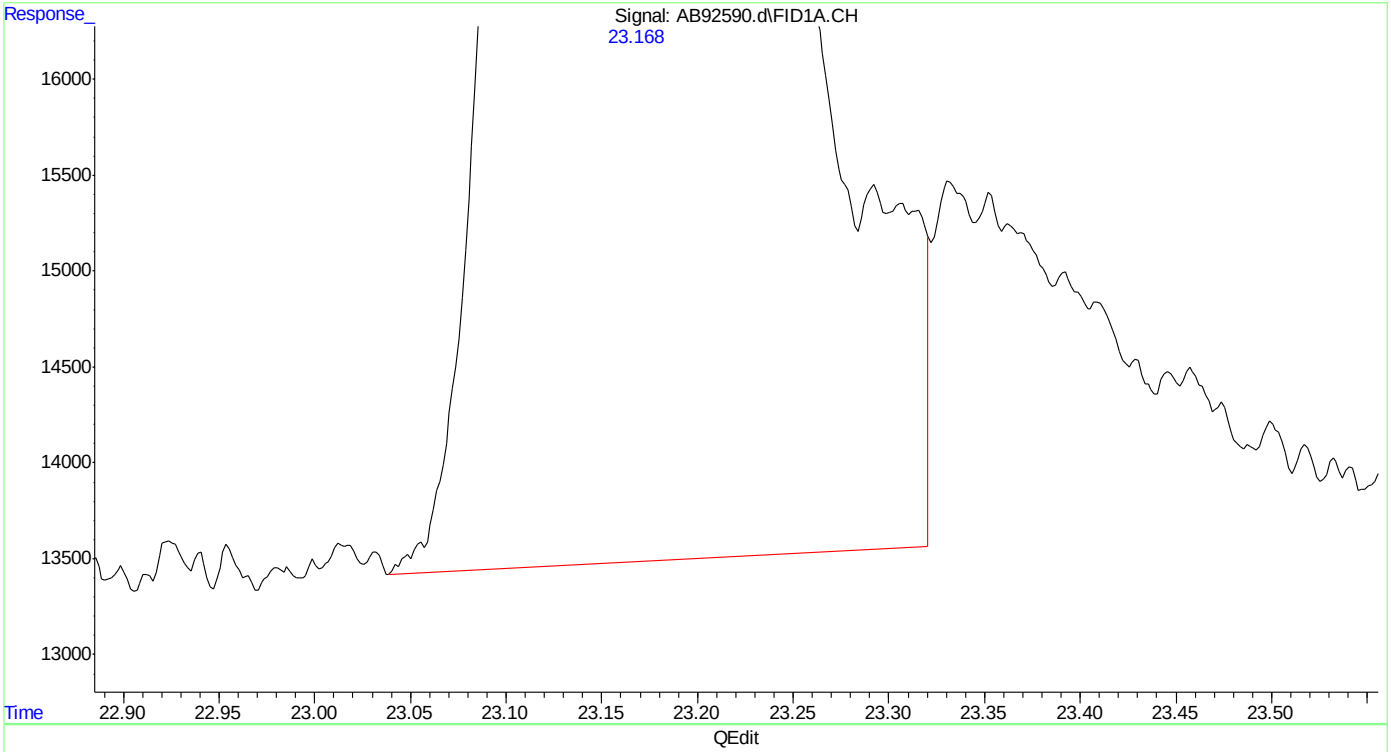
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) o-xylene
23.169min 5.170 ppb
response 3499460

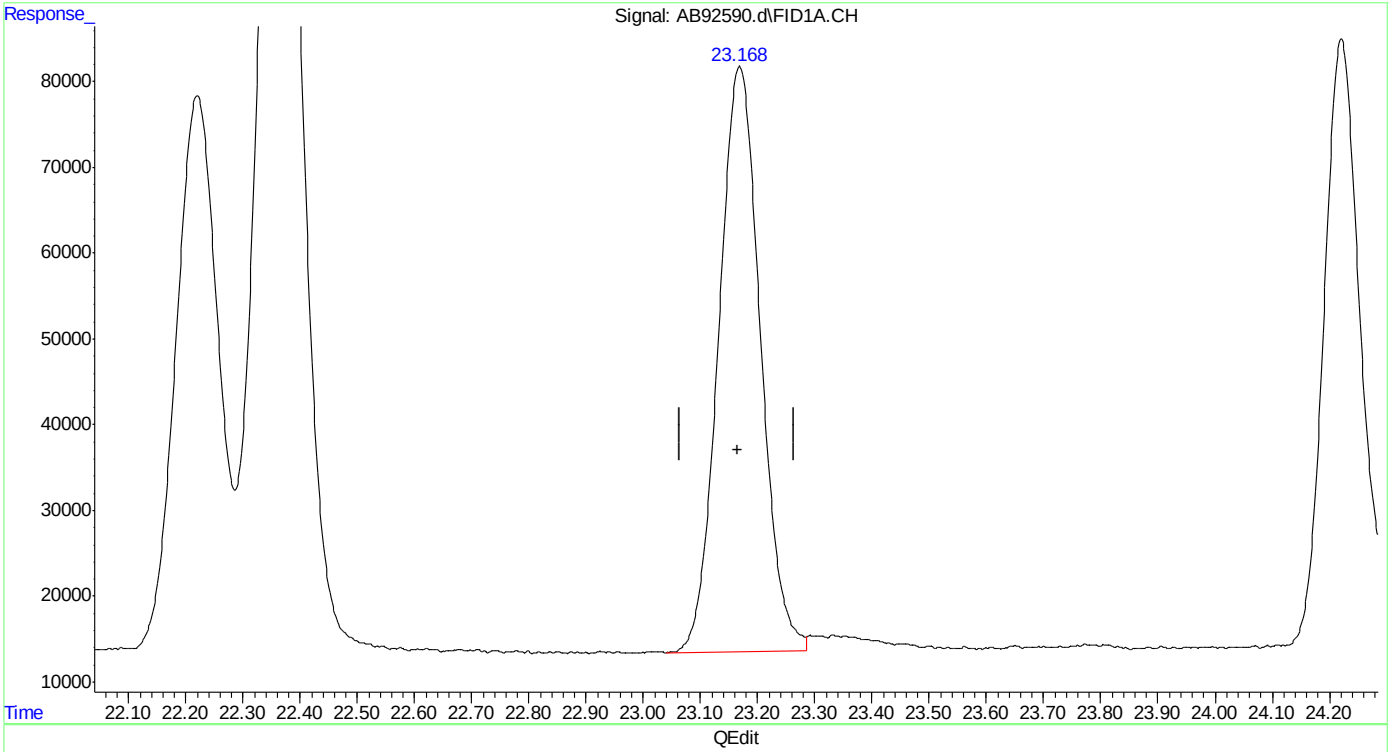
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) o-xylene
23.168min 5.112 ppb m
response 3460195

(+) = Expected Retention Time

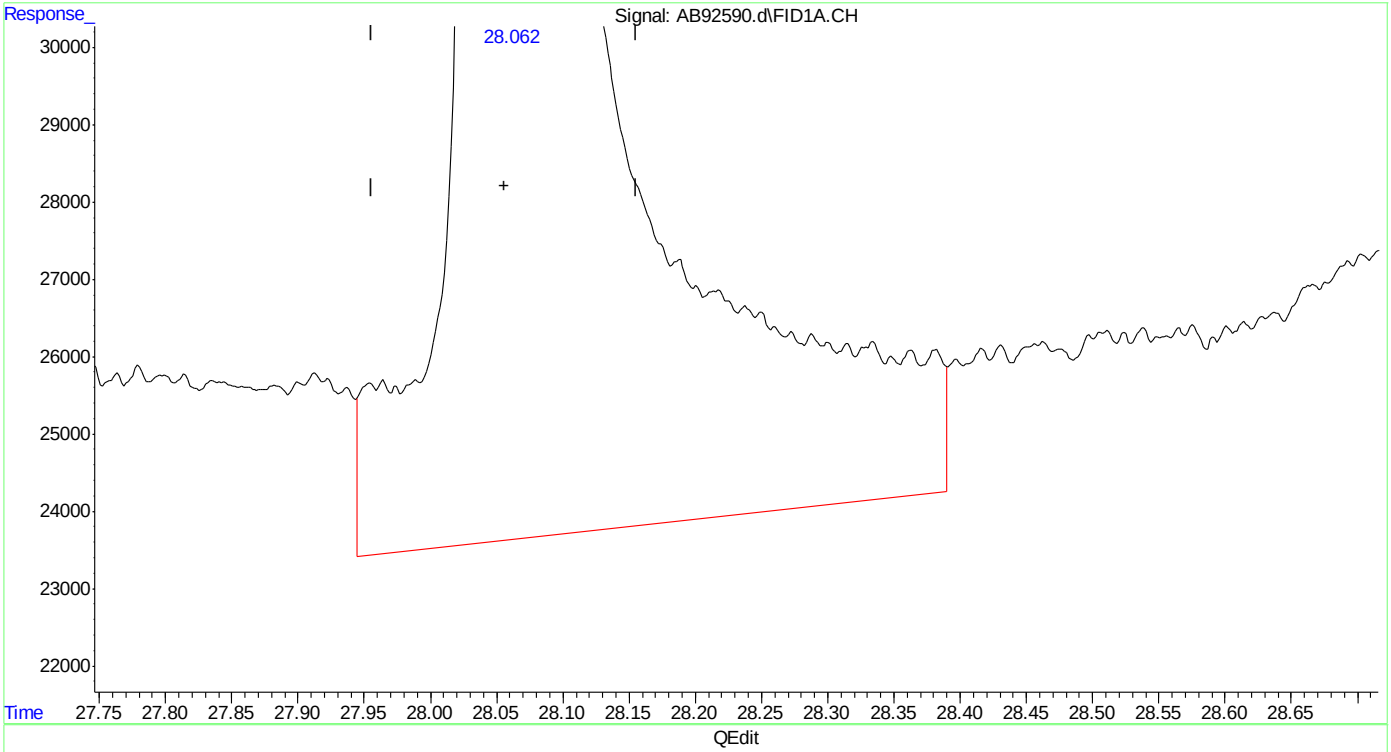
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.062min 6.689 ppb
response 2454121

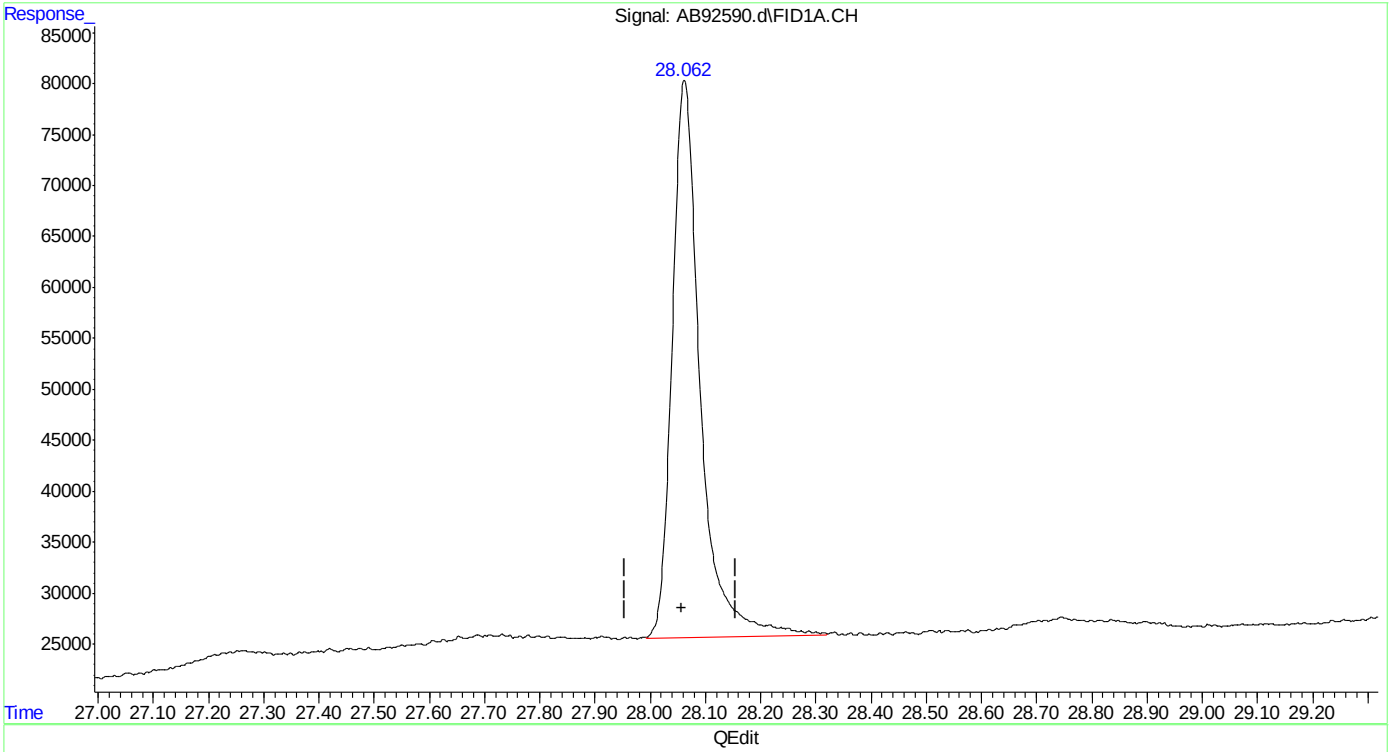
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:44:24 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:10:22
Operator  : haleyn
Sample    : ic5058-5
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(20) naphthalene

28.062min 5.278 ppb m

response 1936540

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 12:44:43 2016

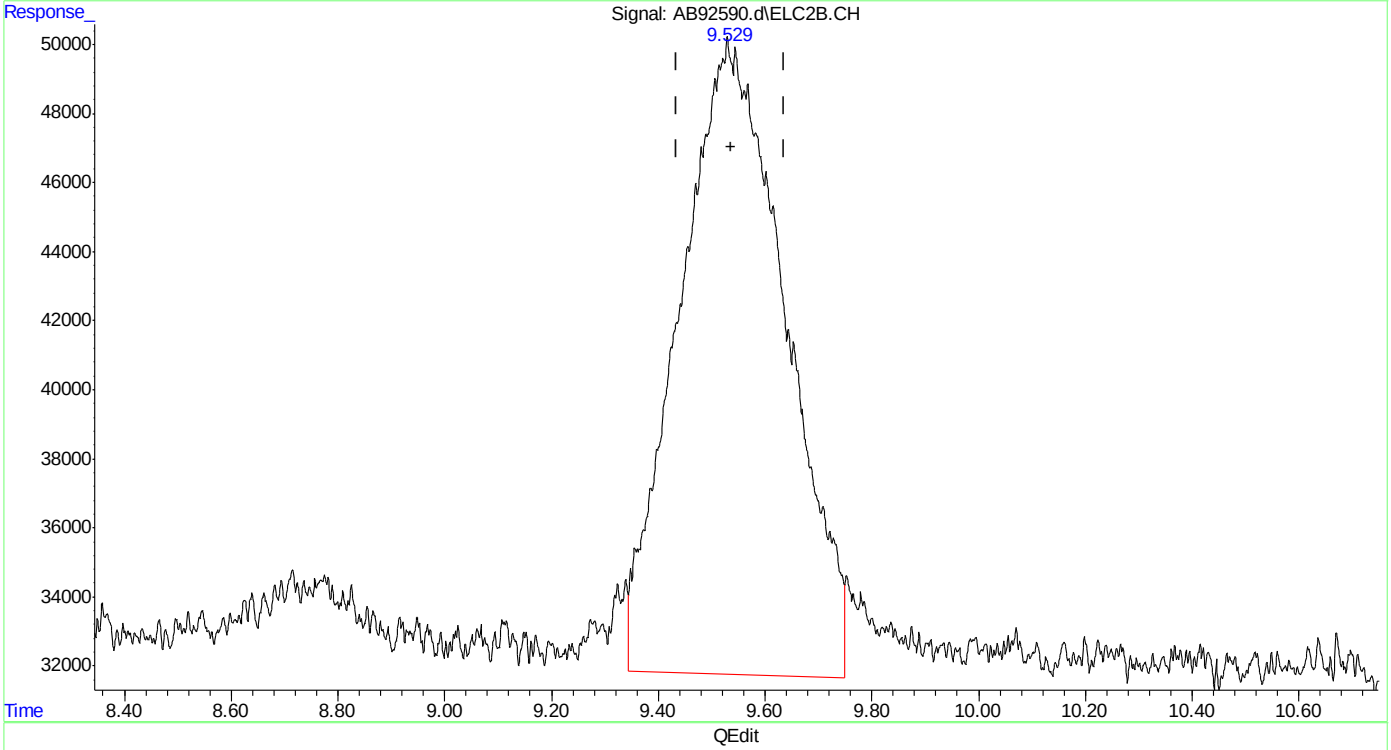
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.530min 4.904 ppb
response 2540172

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:44:48 2016

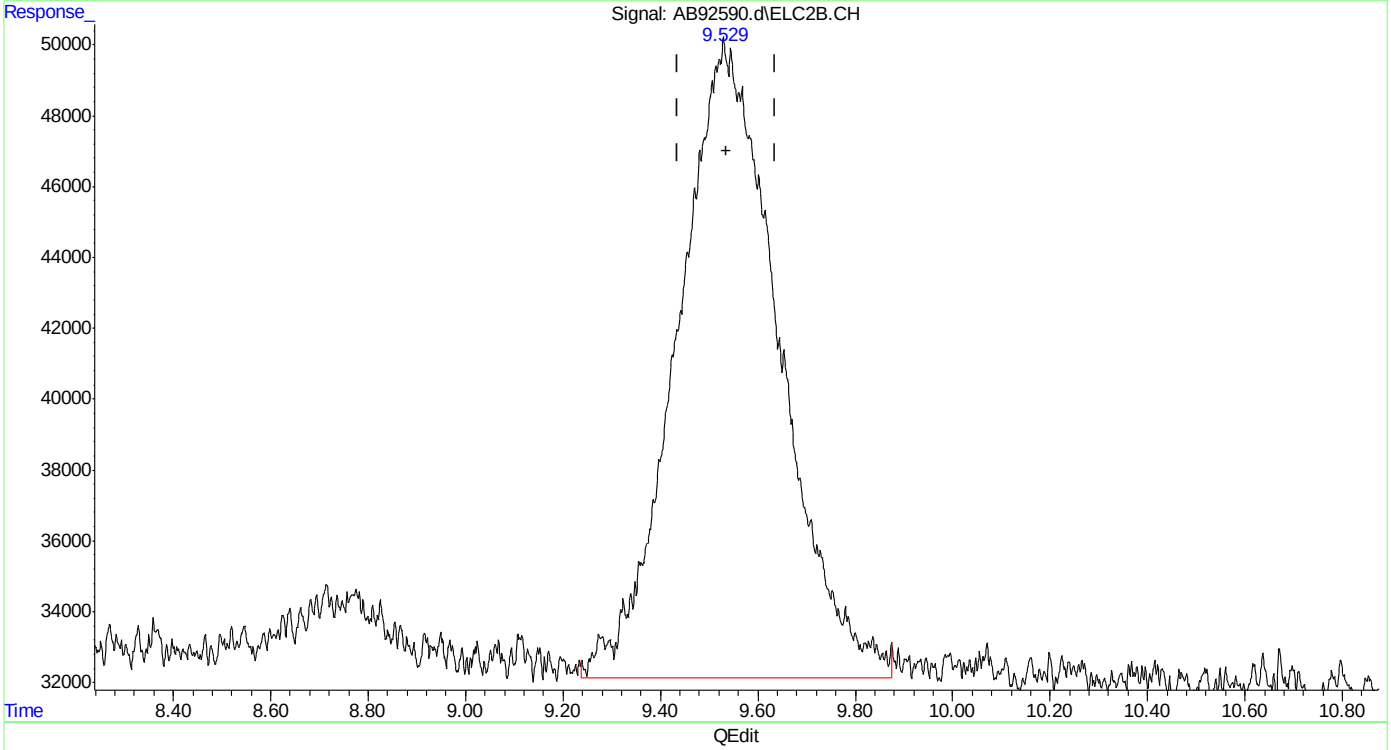
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.529min 5.027 ppb m
response 2603992

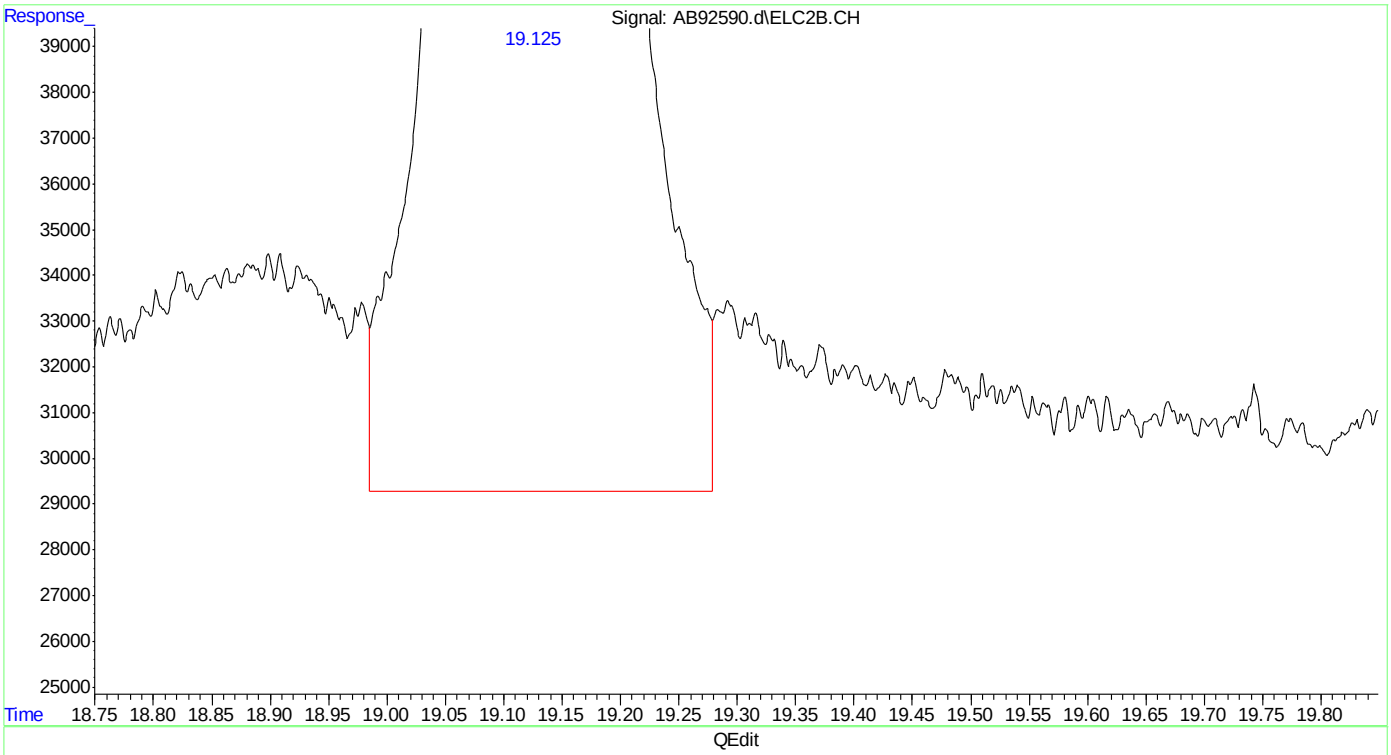
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:45:02 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
19.126min 5.256 ppb
response 6373988

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:45:18 2016 Page: 1

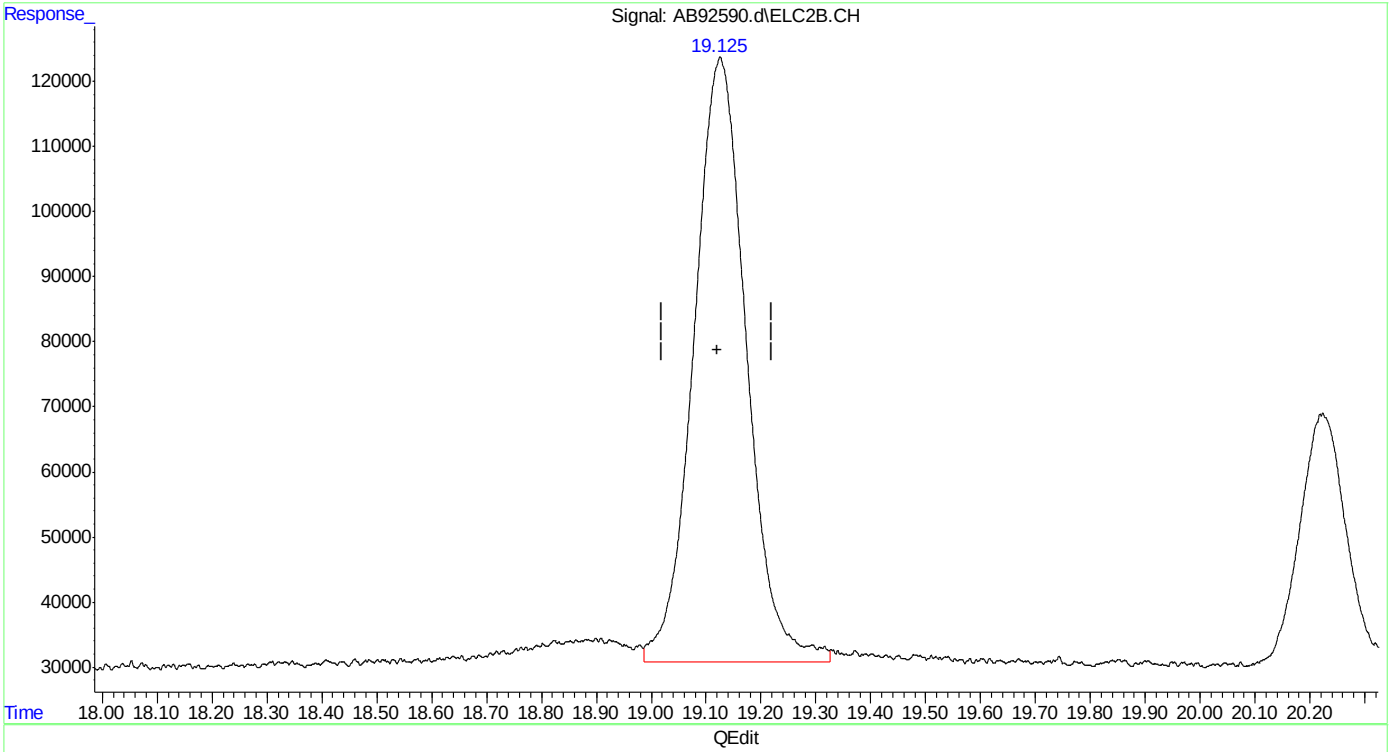
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
19.125min 5.082 ppb m
response 6163190

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:45:42 2016

SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(27) 2,3,4-trifluorotoluene #2 (s)
20.223min 5.260 ppb
response 2482180

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:45:46 2016

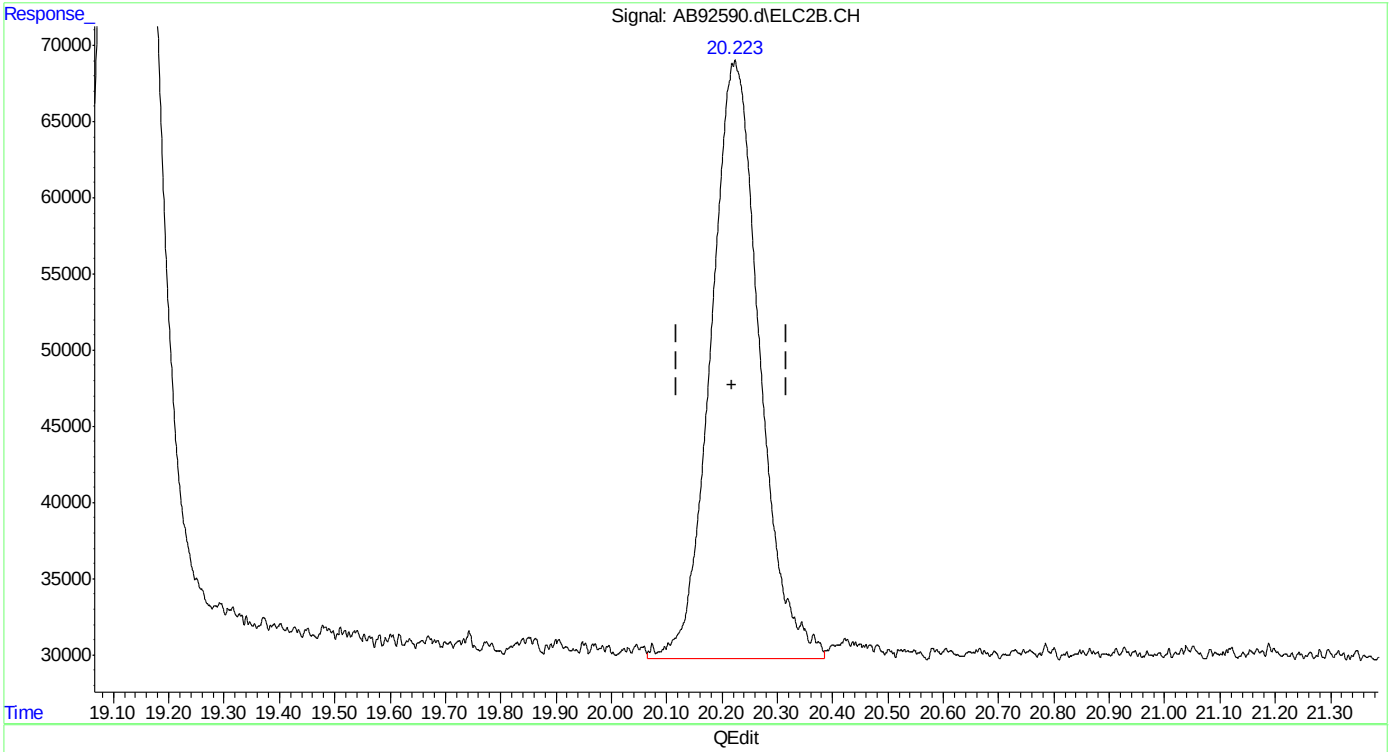
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
20.223min 5.071 ppb m
response 2393092

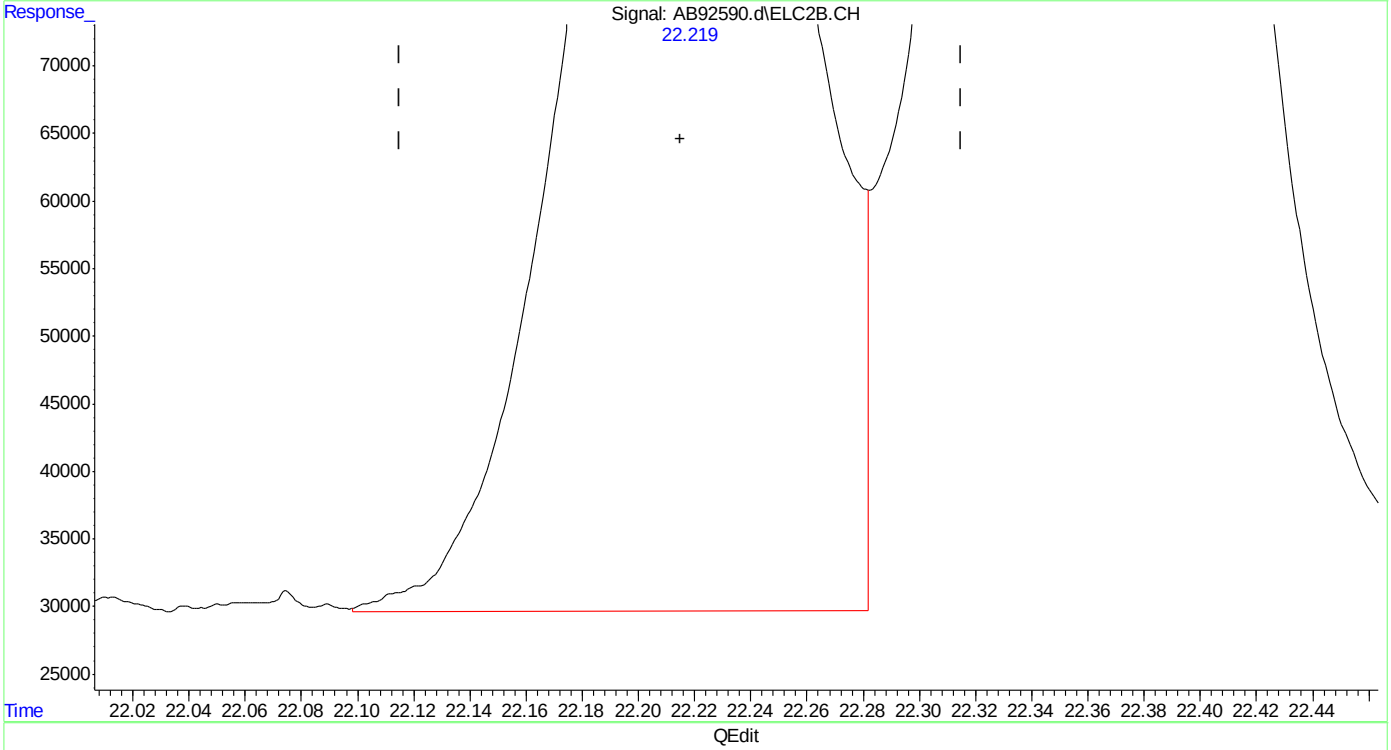
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(28) ethylbenzene #2
22.218min 4.940 ppb
response 4932404

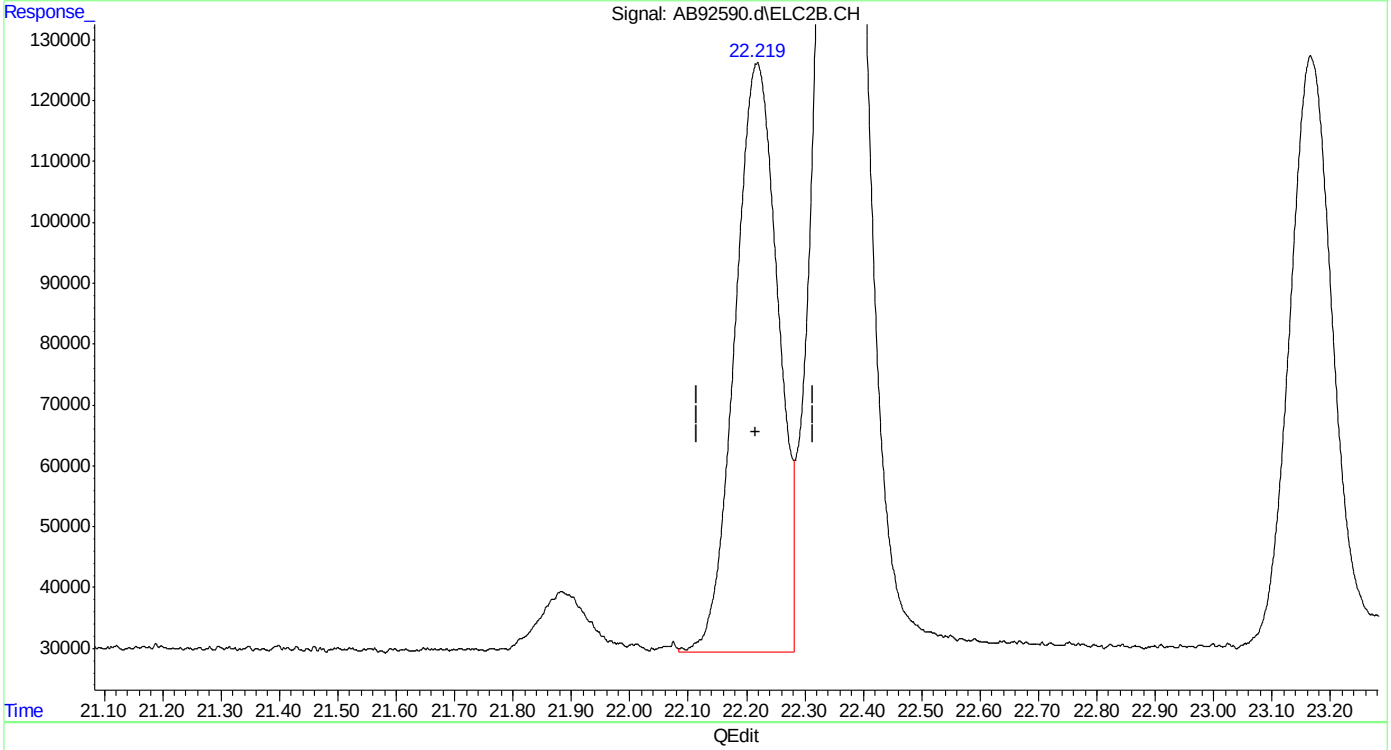
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:46:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(28) ethylbenzene #2
22.219min 4.996 ppb m
response 4988642

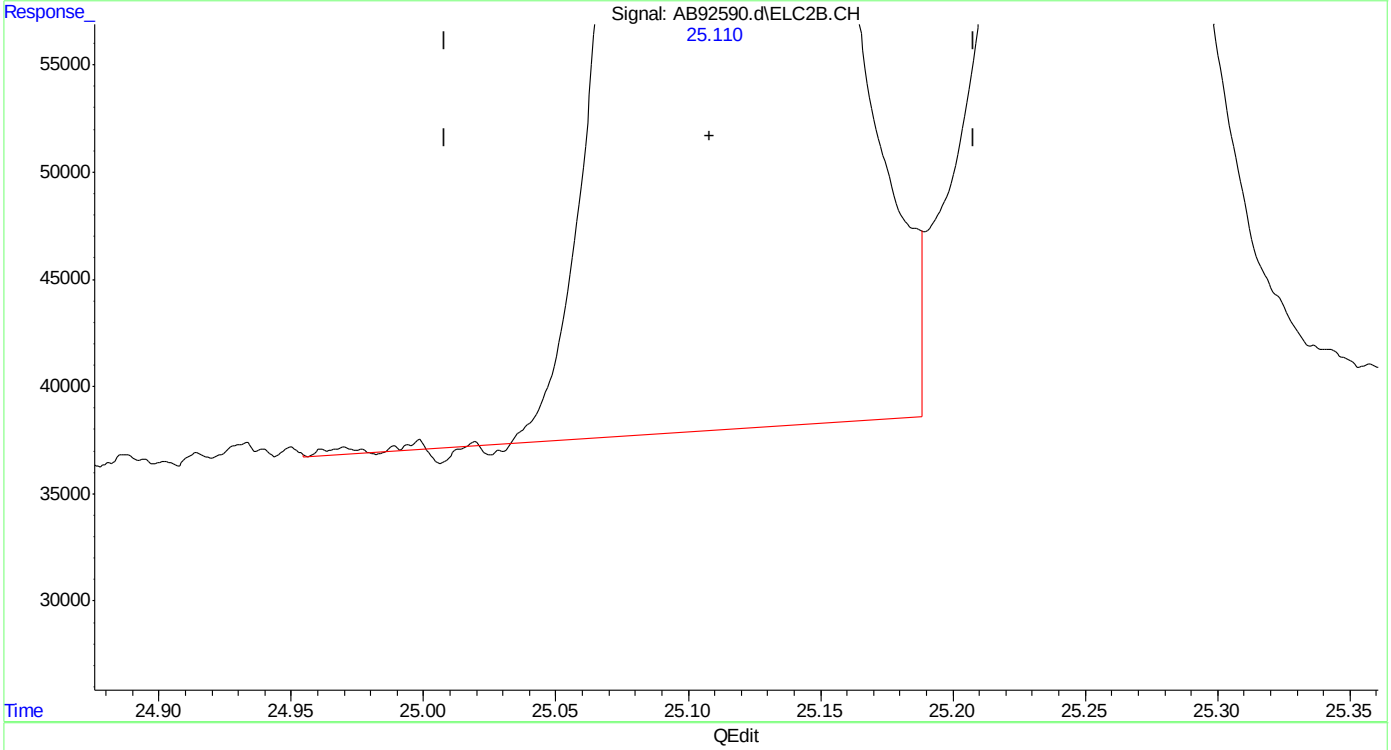
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.111min 4.970 ppb
response 5245029

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:46:24 2016

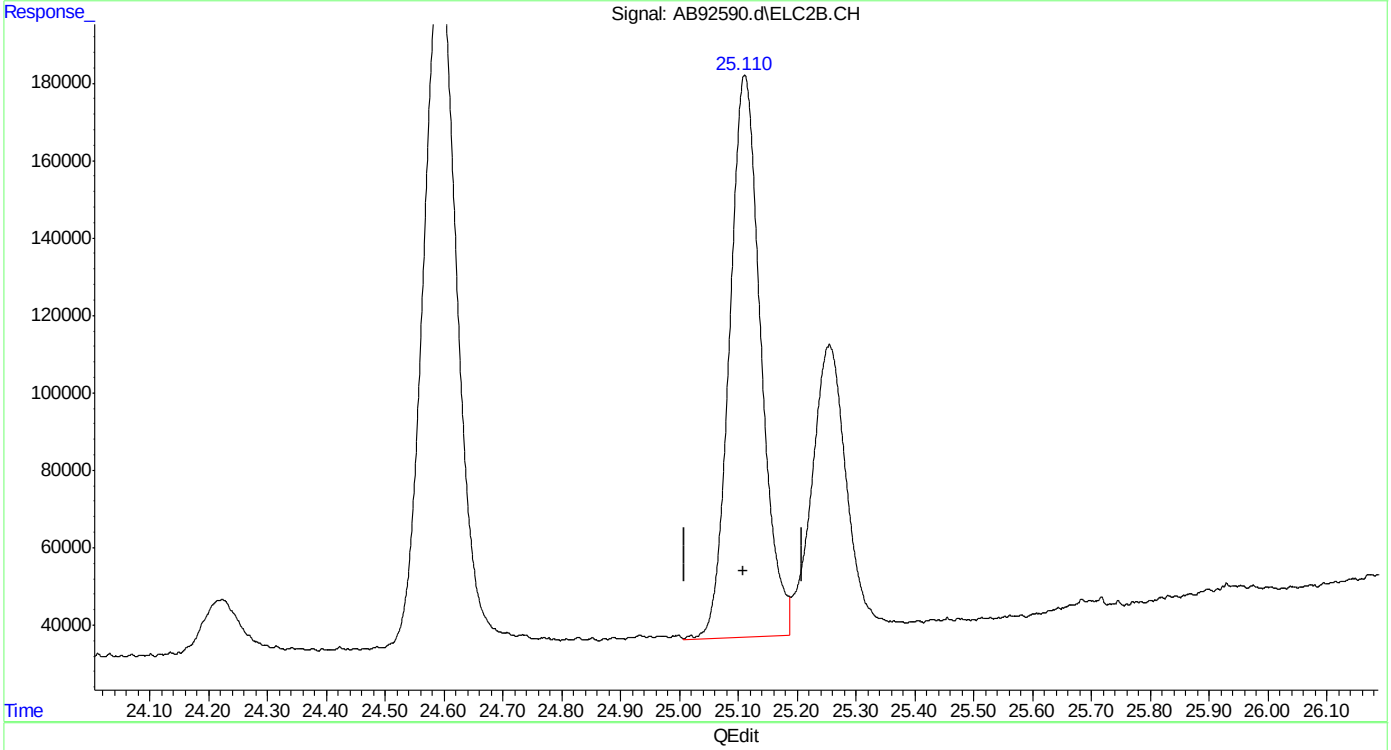
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.110min 5.075 ppb m
response 5356131

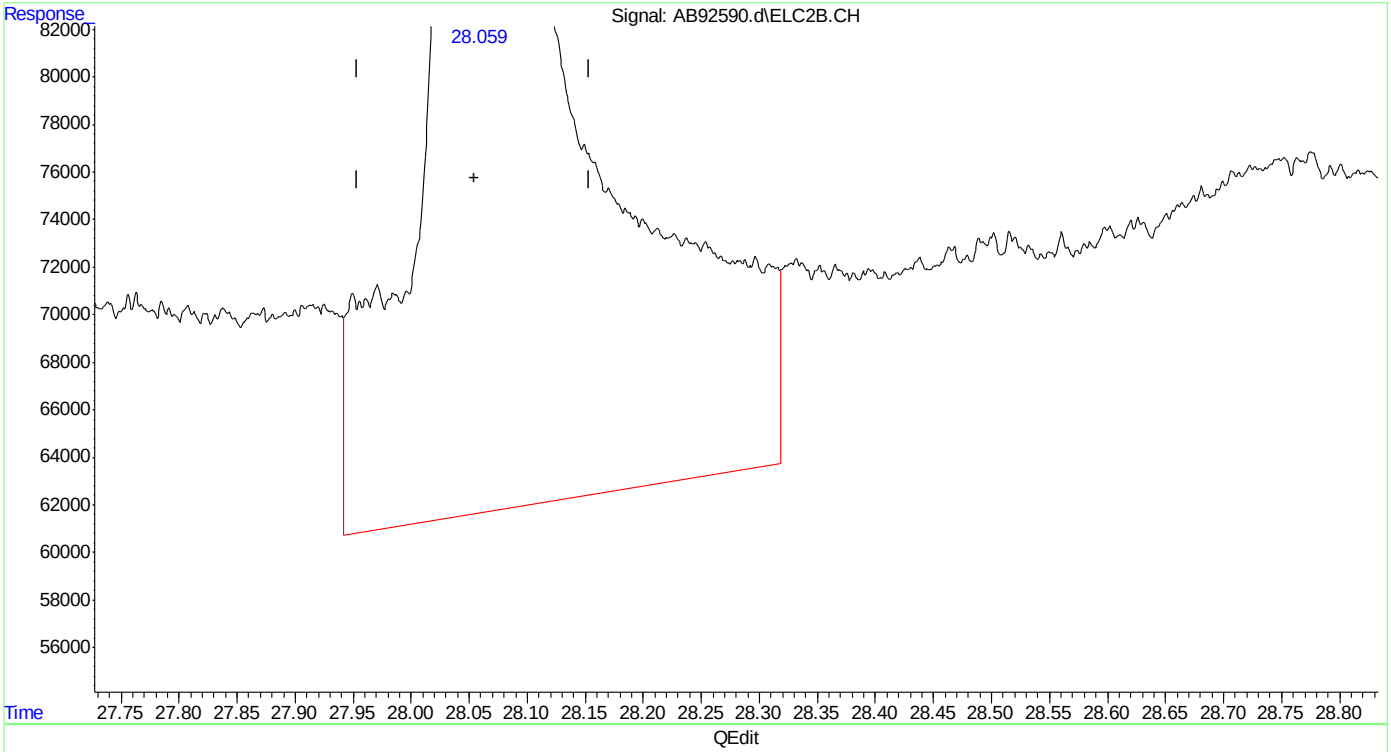
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.060min 7.602 ppb
response 6135012

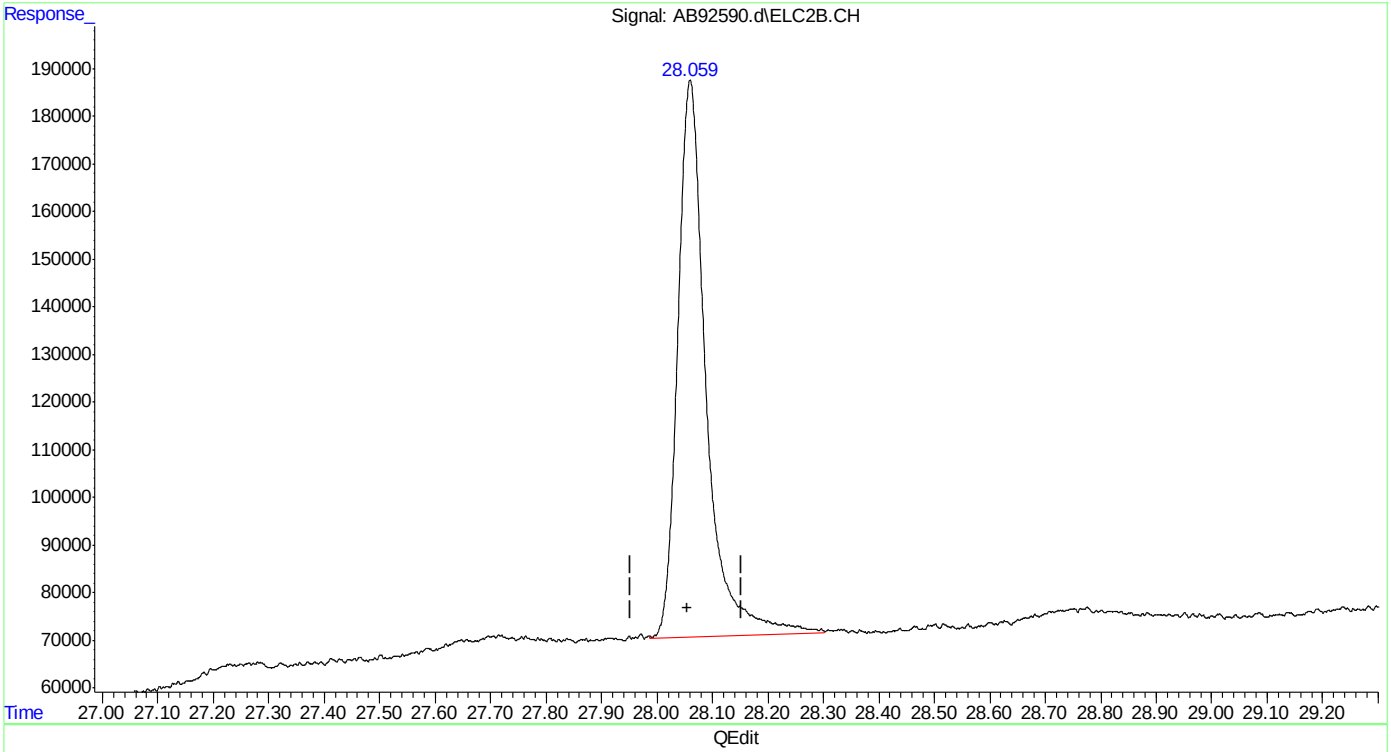
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.059min 5.178 ppb m
response 4179259

(+) = Expected Retention Time

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	15.165	882607	2.008	ppb	m
Spiked Amount 50.000		Recovery =	4.02%		
9) s 2,3,4-trifluorotoluene	20.228	858302	2.084	ppb	
Spiked Amount 50.000		Recovery =	4.17%		
25) s fluorobenzene #2	15.167	1721246	1.968	ppb	m
Spiked Amount 50.000		Recovery =	3.94%		
27) s 2,3,4-trifluorotoluen...	20.218	995138	2.099	ppb	m
Spiked Amount 50.000		Recovery =	4.20%		
Target Compounds					
1) h rt5.5-7	6.370	782177	2.108	ppb	m
2) h rt7/10	8.710	895663	2.098	ppb	m
3) mtbe	9.518	440739	1.996	ppb	m
4) h rt10/13	13.890	1010297	2.083	ppb	m
5) benzene	14.667	1091864	1.956	ppb	m
8) toluene	19.129	1201255	1.955	ppb	m
11) h rt20/25	21.900	1295530	2.108	ppb	m
13) ethylbenzene	22.223	1269420	1.942	ppb	m
14) m,p-xylene	22.365	2661036	3.910	ppb	m
15) o-xylene	23.170	1342437	1.969	ppb	m
16) h decane	24.230	1363143	2.174	ppb	m
17) t 1,3,5-trimethylbenzene	24.596	1485425	2.065	ppb	m
18) 1,2,4-trimethylbenzene	25.115	1358128	1.976	ppb	m
19) h butylcyclohexane	25.263	1487308	2.216	ppb	m
20) naphthalene	28.068	834686	2.234	ppb	m
23) mtbe #2	9.561	1012871	1.952	ppb	m
24) benzene #2	14.668	2639435	1.883	ppb	m
26) toluene #2	19.126	2524690	2.070	ppb	m
28) ethylbenzene #2	22.223	1889943	1.893	ppb	m
29) m,p-xylene #2	22.365	4718026	3.849	ppb	m
30) o-xylene #2	23.169	1948764	1.927	ppb	m
31) t 1,3,5-trimethylbenzen...	24.595	2878673	2.008	ppb	
32) 1,2,4-trimethylbenzen...	25.113	2057662	1.940	ppb	m
33) naphthalene #2	28.064	1726017	2.114	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	2046058	1.922	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

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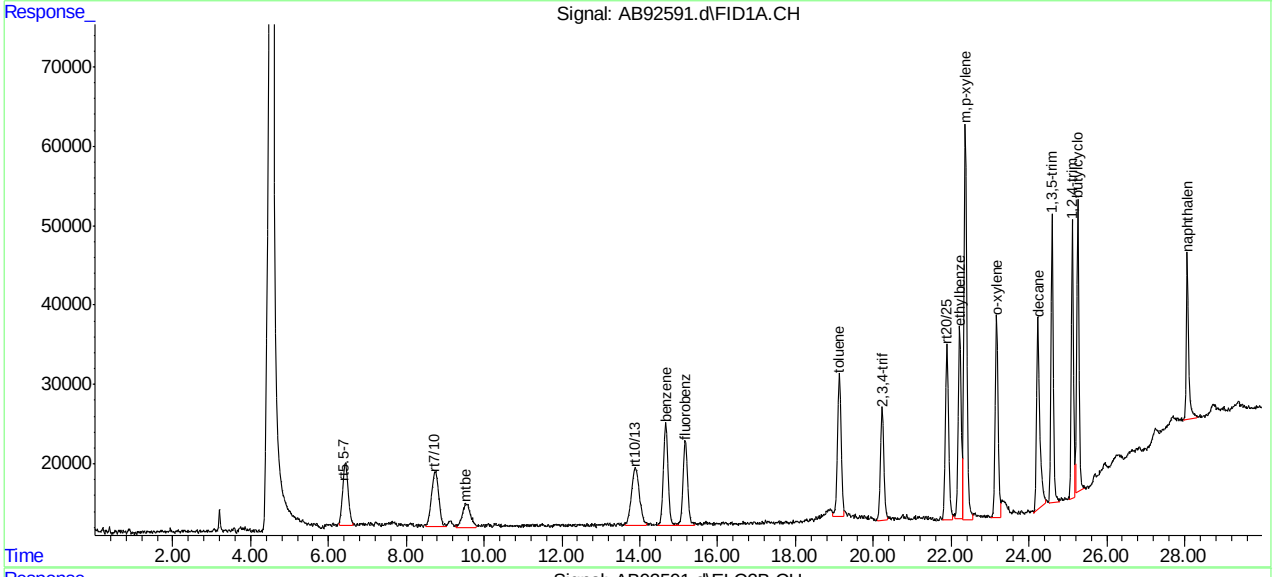
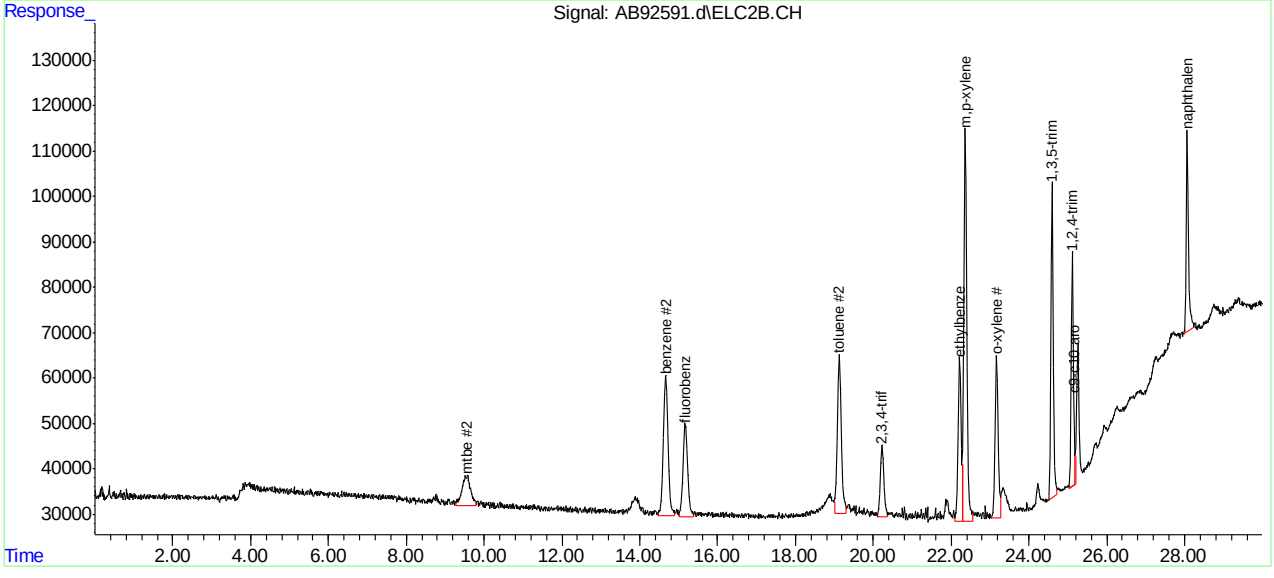
Quantitation Report (QT Reviewed)

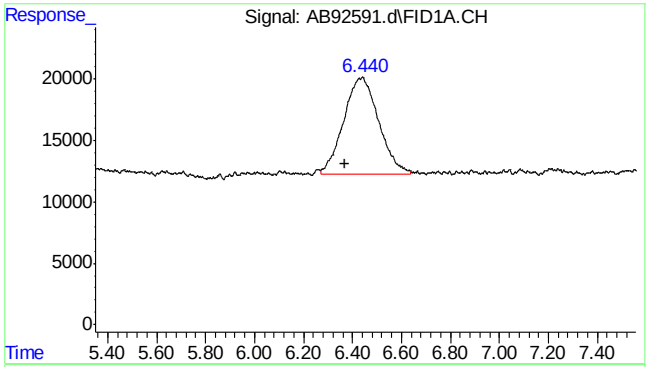
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

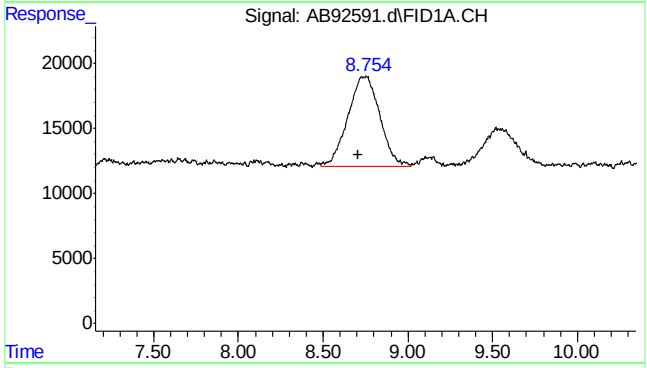






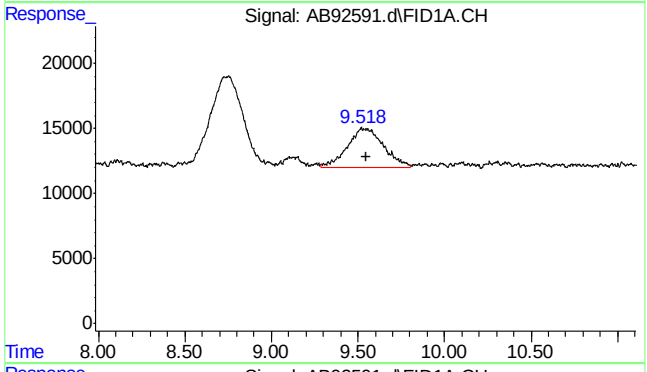
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 782177
Conc: 2.11 ppb m



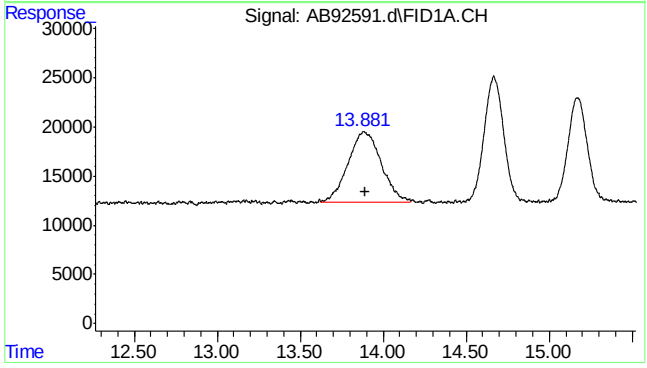
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 895663
Conc: 2.10 ppb m



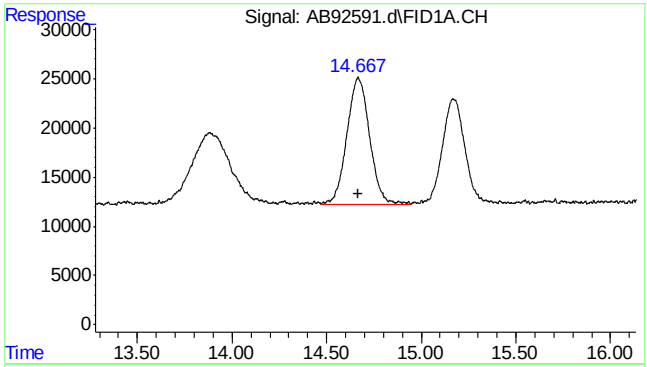
#3 mtbe

R.T.: 9.518 min
Delta R.T.: -0.027 min
Response: 440739
Conc: 2.00 ppb m



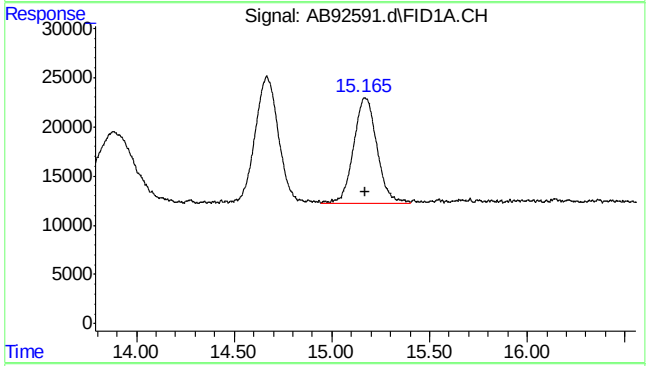
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 1010297
Conc: 2.08 ppb m



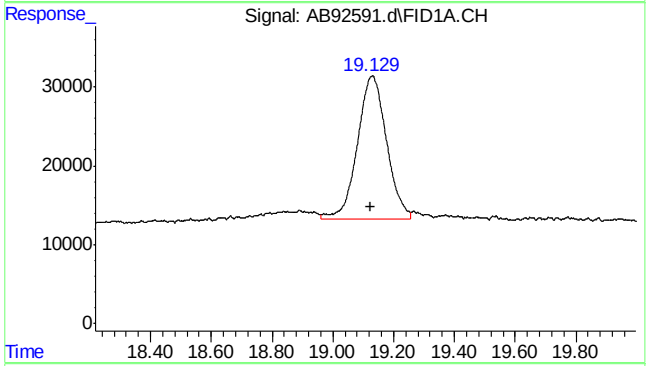
#5 benzene

R.T.: 14.667 min
Delta R.T.: 0.000 min
Response: 1091864
Conc: 1.96 ppb m



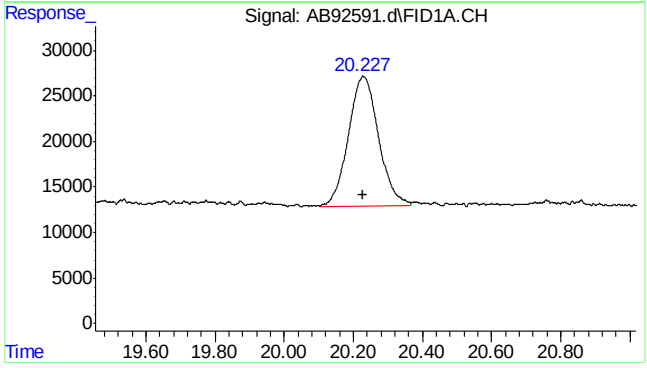
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: -0.007 min
Response: 882607
Conc: 2.01 ppb m



#8 toluene

R.T.: 19.129 min
Delta R.T.: 0.003 min
Response: 1201255
Conc: 1.95 ppb m



#9 2,3,4-trifluorotoluene

R.T.: 20.228 min
Delta R.T.: 0.002 min
Response: 858302
Conc: 2.08 ppb

7.5.8

7

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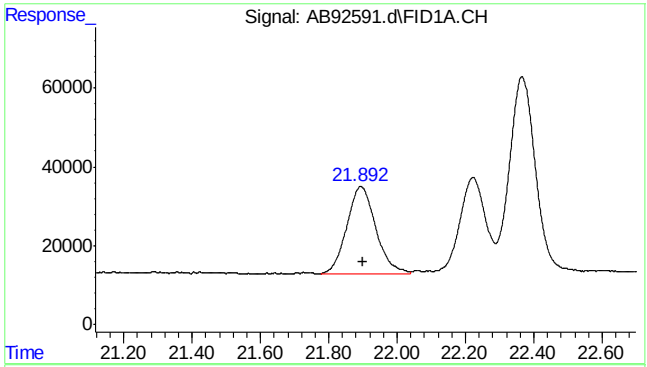
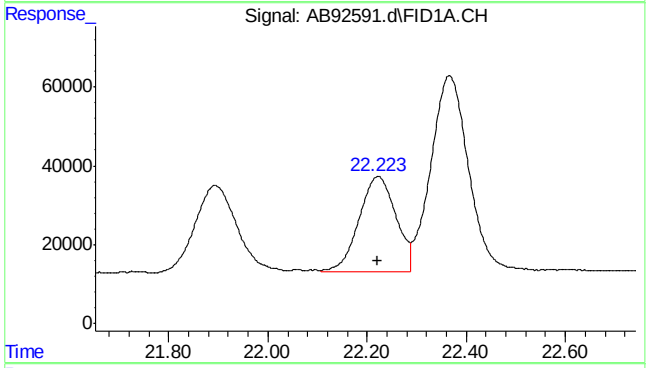


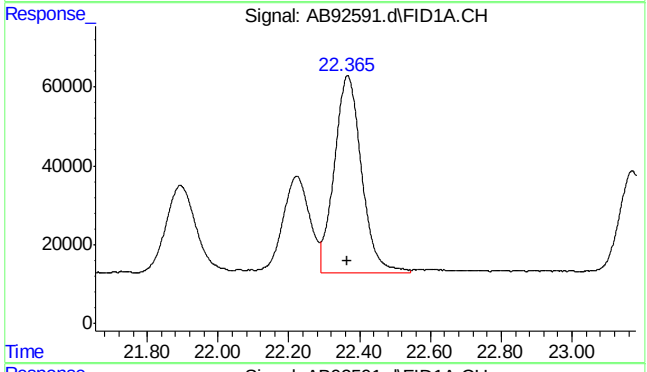
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 1295530
Conc: 2.11 ppb m



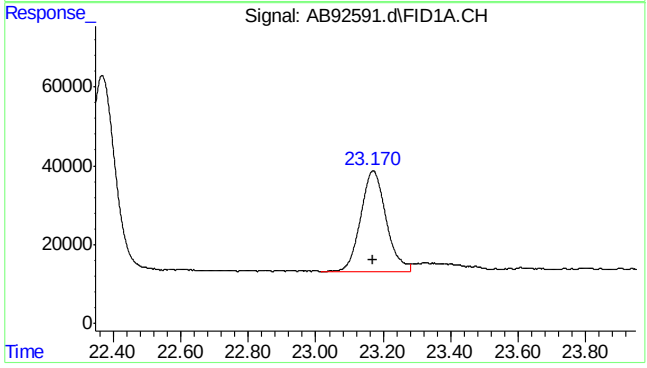
#13 ethylbenzene

R.T.: 22.223 min
Delta R.T.: 0.003 min
Response: 1269420
Conc: 1.94 ppb m



#14 m,p-xylene

R.T.: 22.365 min
Delta R.T.: 0.001 min
Response: 2661036
Conc: 3.91 ppb m



#15 o-xylene

R.T.: 23.170 min
Delta R.T.: 0.002 min
Response: 1342437
Conc: 1.97 ppb m

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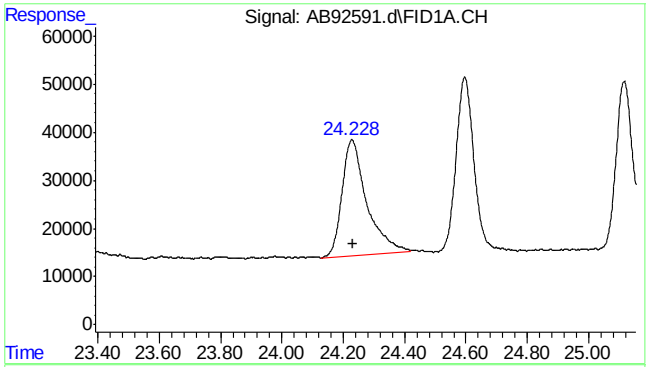
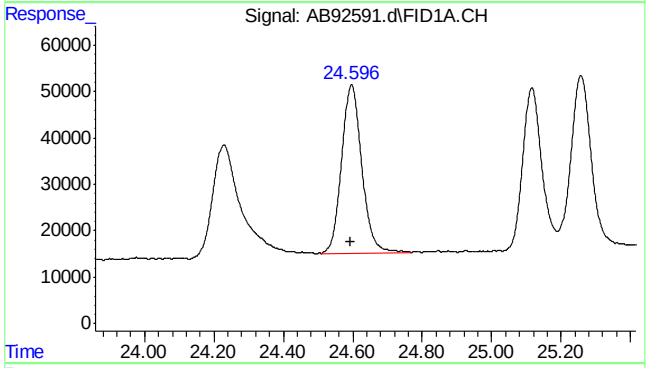


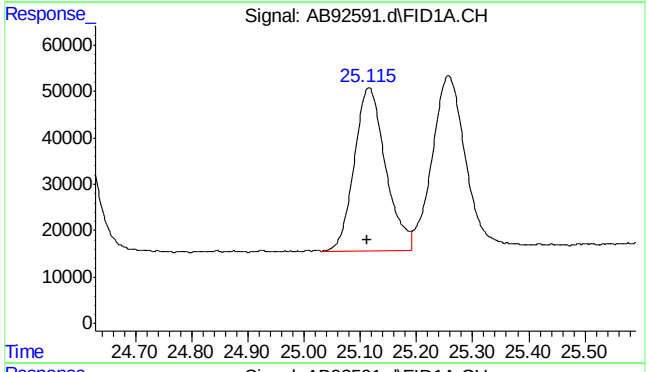
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 1363143
Conc: 2.17 ppb m



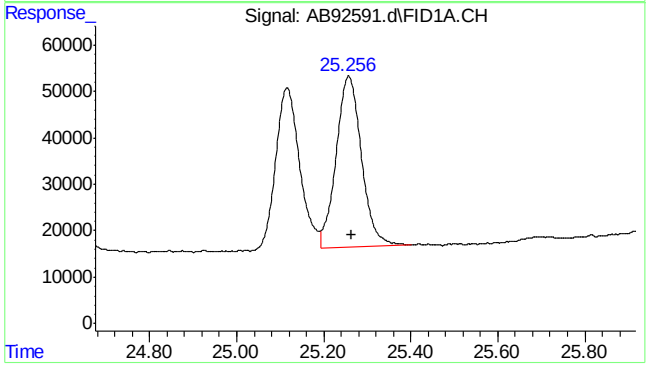
#17 1,3,5-trimethylbenzene

R.T.: 24.596 min
Delta R.T.: 0.000 min
Response: 1485425
Conc: 2.07 ppb m



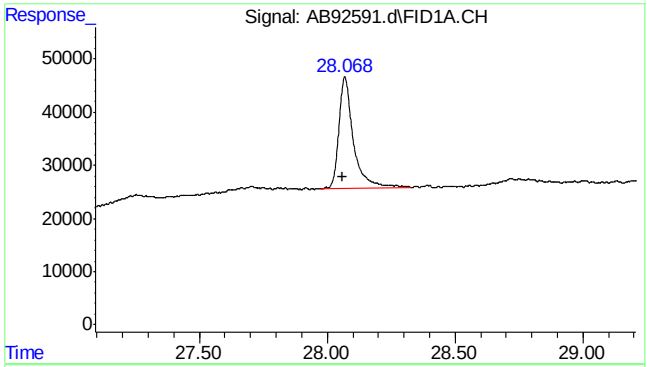
#18 1,2,4-trimethylbenzene

R.T.: 25.115 min
Delta R.T.: 0.002 min
Response: 1358128
Conc: 1.98 ppb m



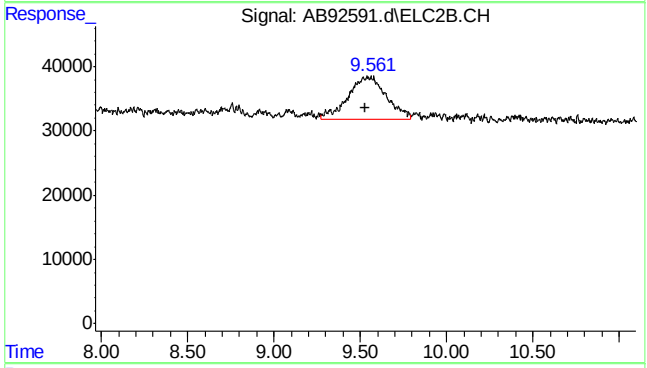
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 1487308
Conc: 2.22 ppb m



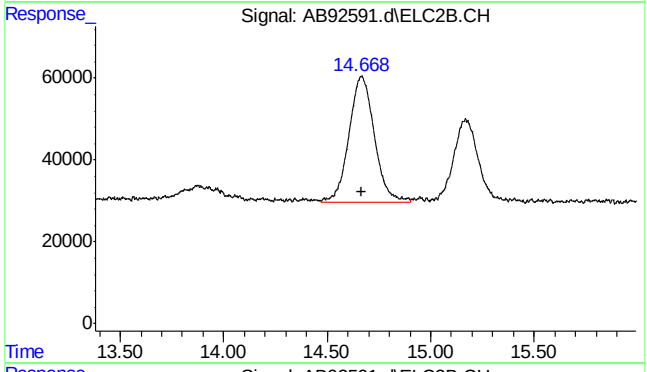
#20 naphthalene

R.T.: 28.068 min
Delta R.T.: 0.006 min
Response: 834686
Conc: 2.23 ppb m



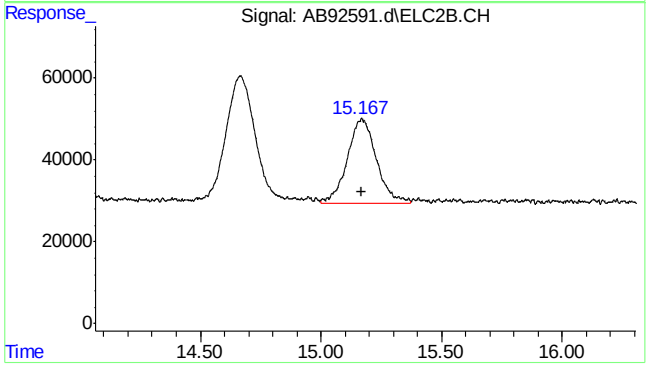
#23 mtbe #2

R.T.: 9.561 min
Delta R.T.: 0.032 min
Response: 1012871
Conc: 1.95 ppb m



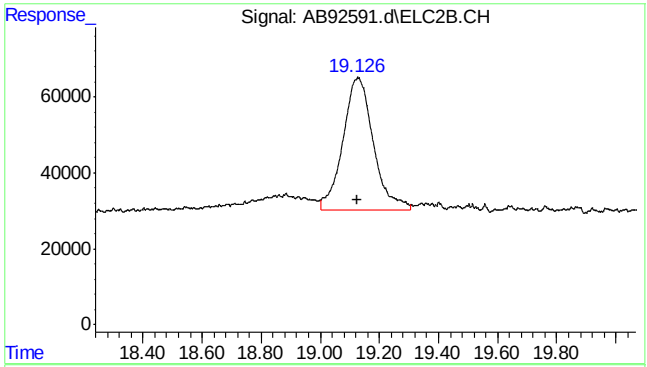
#24 benzene #2

R.T.: 14.668 min
Delta R.T.: 0.002 min
Response: 2639435
Conc: 1.88 ppb m



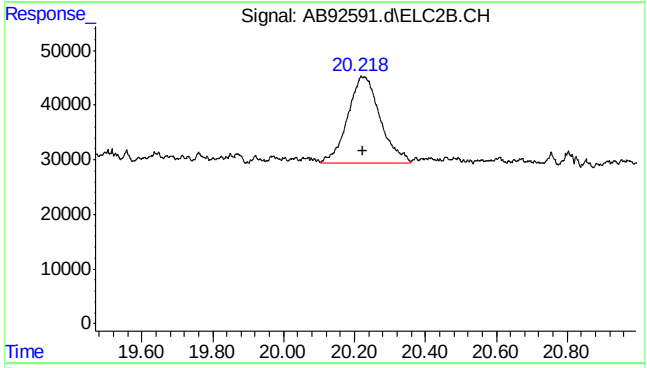
#25 fluorobenzene #2

R.T.: 15.167 min
Delta R.T.: -0.004 min
Response: 1721246
Conc: 1.97 ppb m



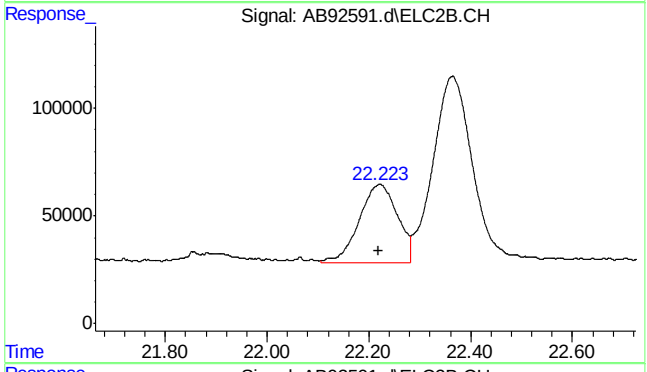
#26 toluene #2

R.T.: 19.126 min
Delta R.T.: 0.000 min
Response: 2524690
Conc: 2.07 ppb m



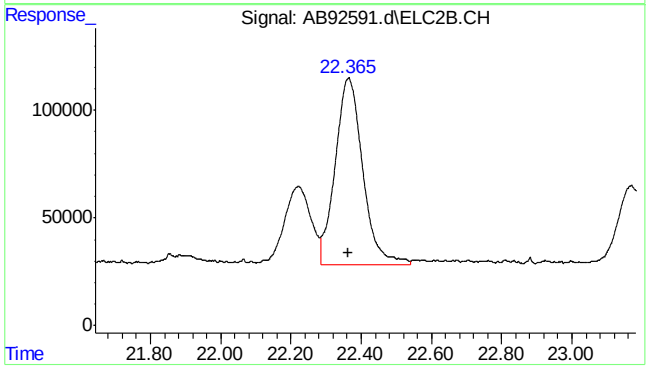
#27 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: -0.005 min
Response: 995138
Conc: 2.10 ppb m



#28 ethylbenzene #2

R.T.: 22.223 min
Delta R.T.: 0.004 min
Response: 1889943
Conc: 1.89 ppb m



#29 m,p-xylene #2

R.T.: 22.365 min
Delta R.T.: 0.003 min
Response: 4718026
Conc: 3.85 ppb m

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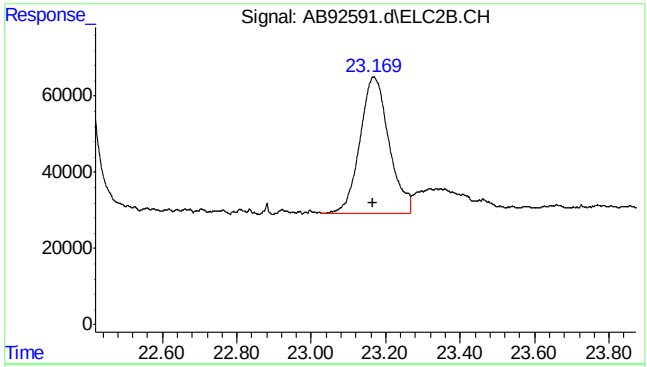
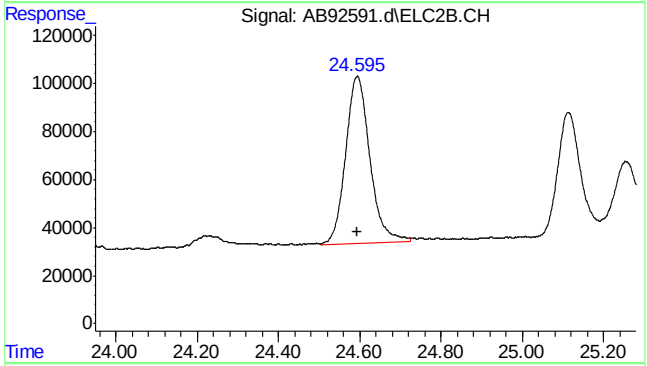


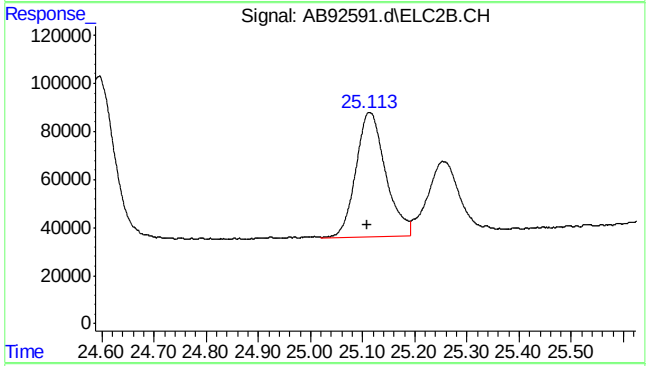
#30 o-xylene #2

R.T.: 23.169 min
Delta R.T.: 0.002 min
Response: 1948764
Conc: 1.93 ppb m



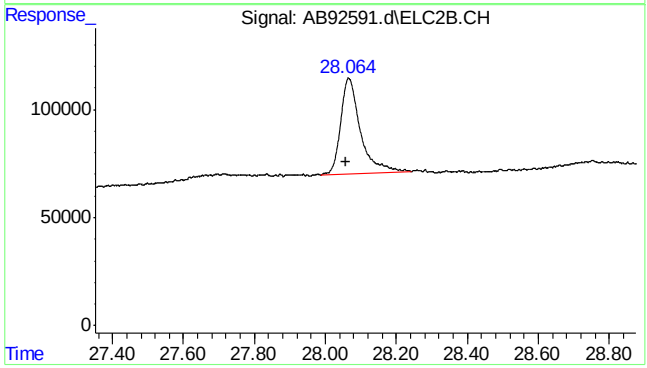
#31 1,3,5-trimethylbenzene #2

R.T.: 24.595 min
Delta R.T.: 0.002 min
Response: 2878673
Conc: 2.01 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.113 min
Delta R.T.: 0.003 min
Response: 2057662
Conc: 1.94 ppb m



#33 naphthalene #2

R.T.: 28.064 min
Delta R.T.: 0.005 min
Response: 1726017
Conc: 2.11 ppb m

7.5.8

7

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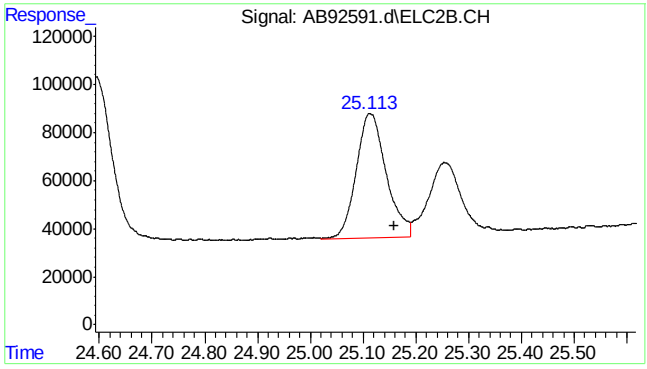


#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.160 min
Delta R.T.:	0.000 min
Response:	2046058
Conc:	1.92 ppb m

7.5.8

7

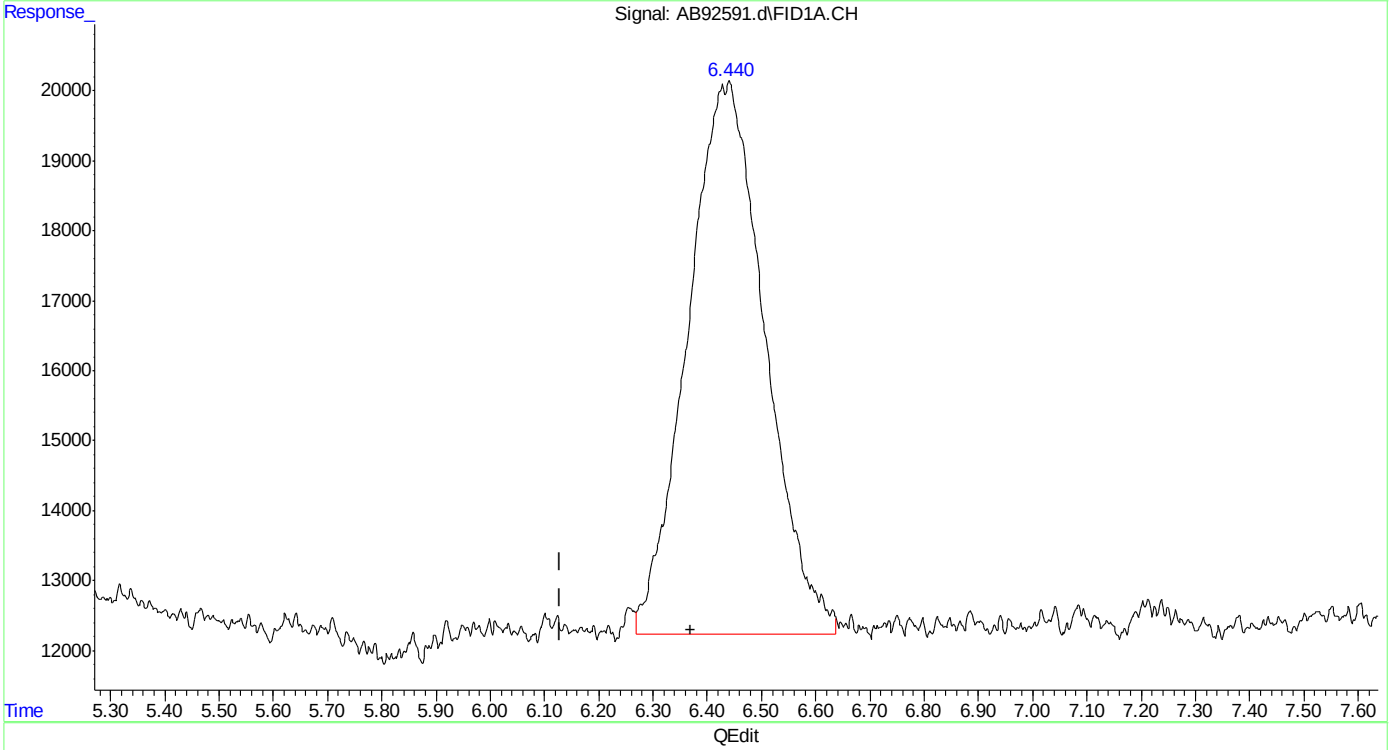
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(1) rt5.5-7 (h)
6.370min 2.108 ppb m
response 782177

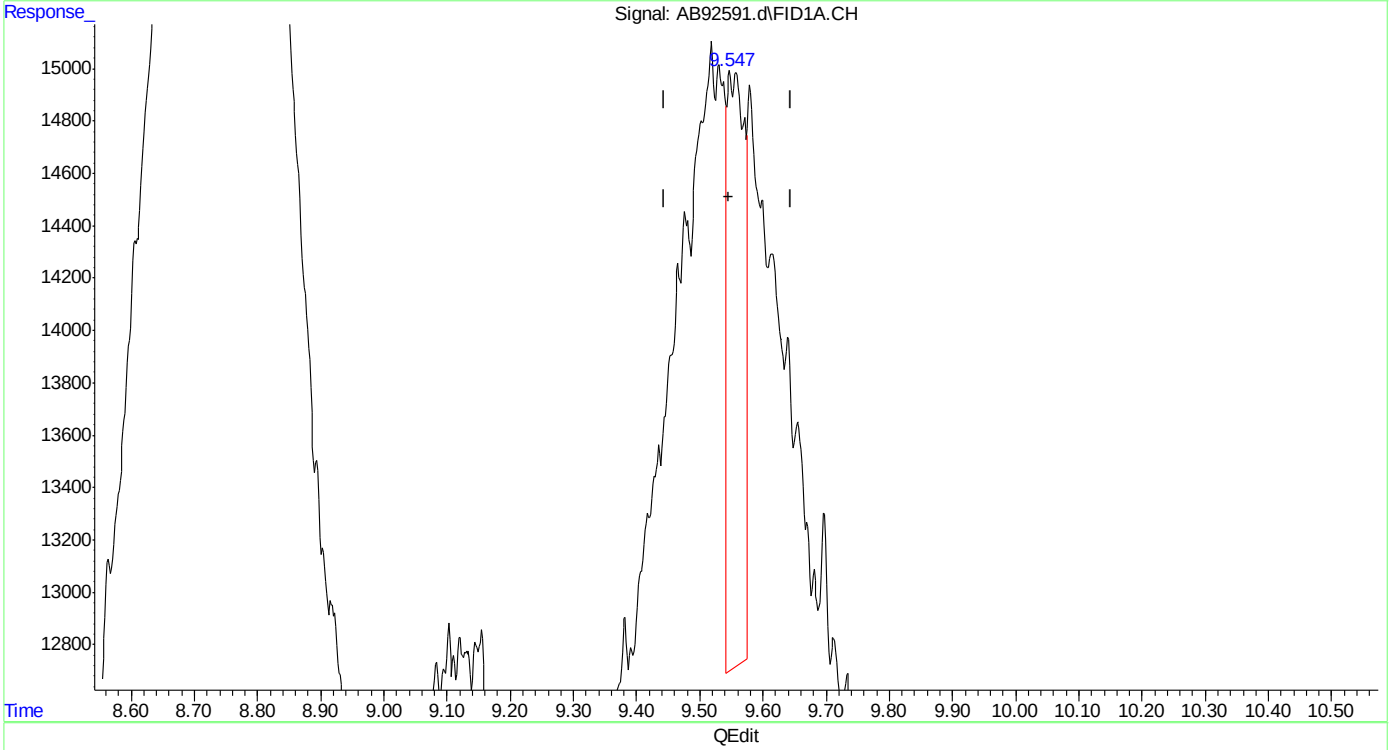
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
9.548min 0.194 ppb
response 42870

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:19:09 2016

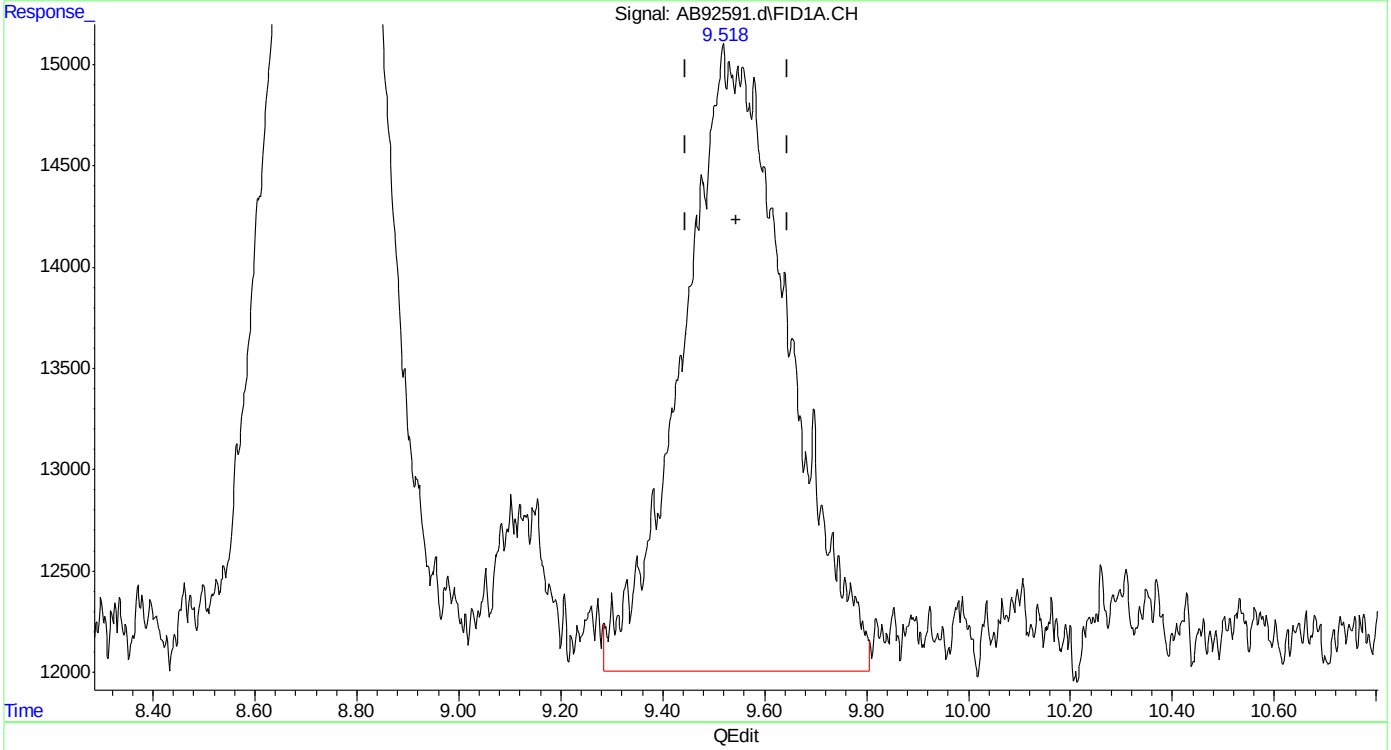
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
9.518min 1.996 ppb m
response 440739

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:19:57 2016

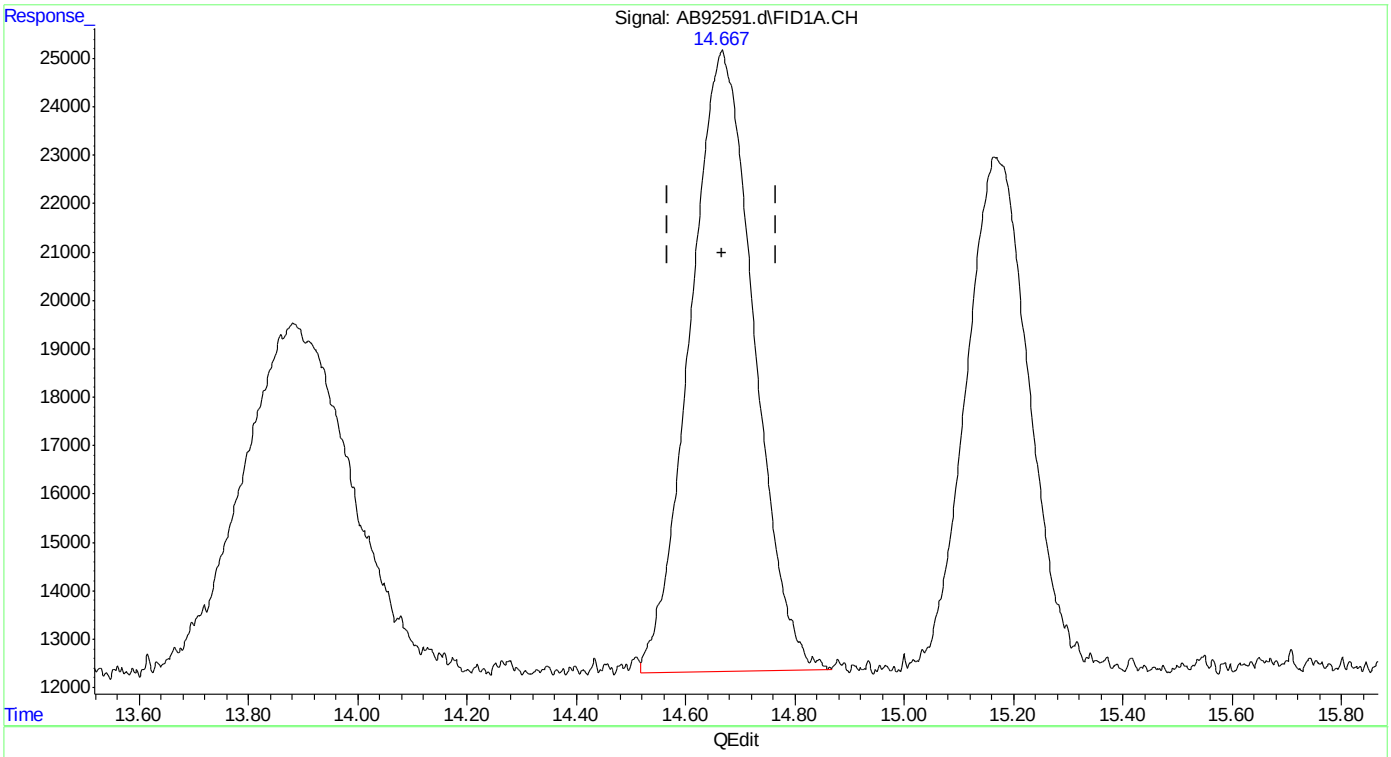
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:47:46
Operator  : haleyn
Sample    : ic5058-2
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(5) benzene

14.667min 1.864 ppb

response 1040324

(+) = Expected Retention Time

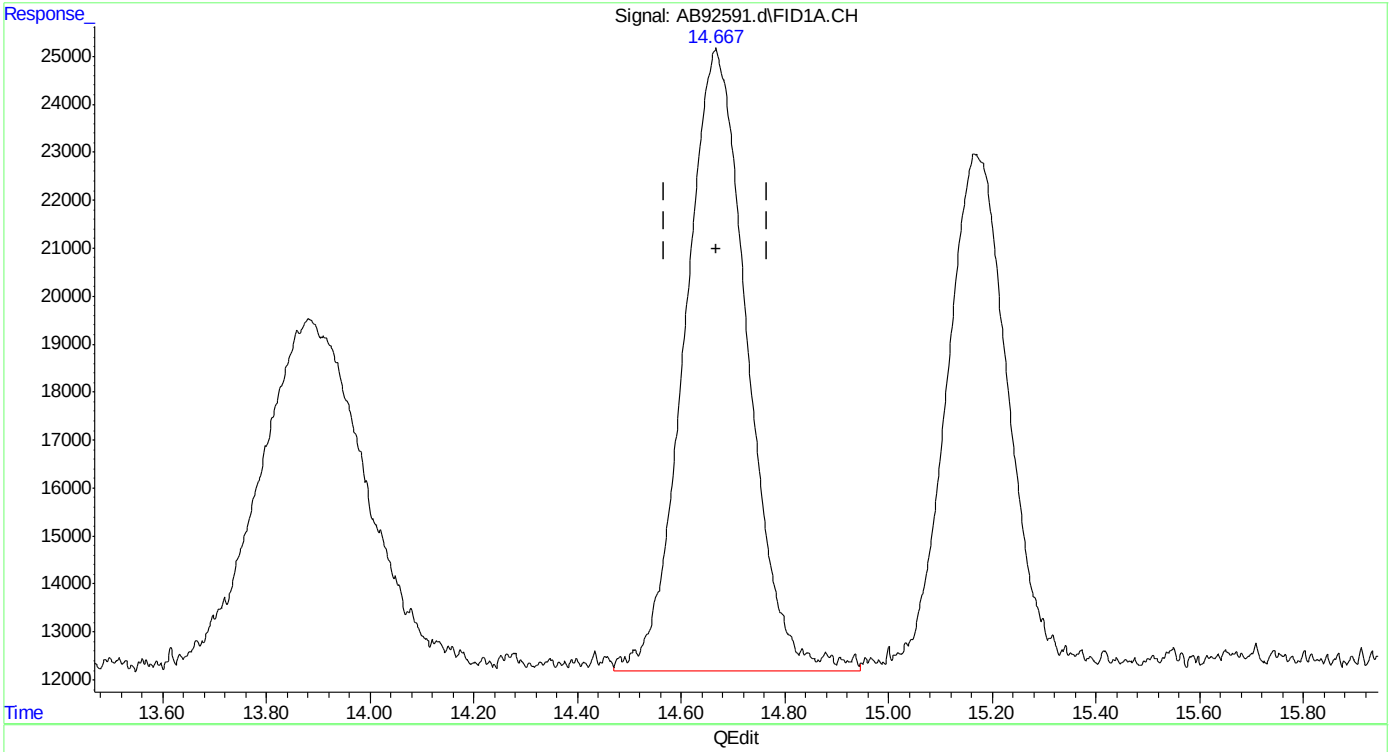
ab160112vphmaster.M Tue Jan 12 13:20:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(5) benzene
14.667min 1.956 ppb m
response 1091864

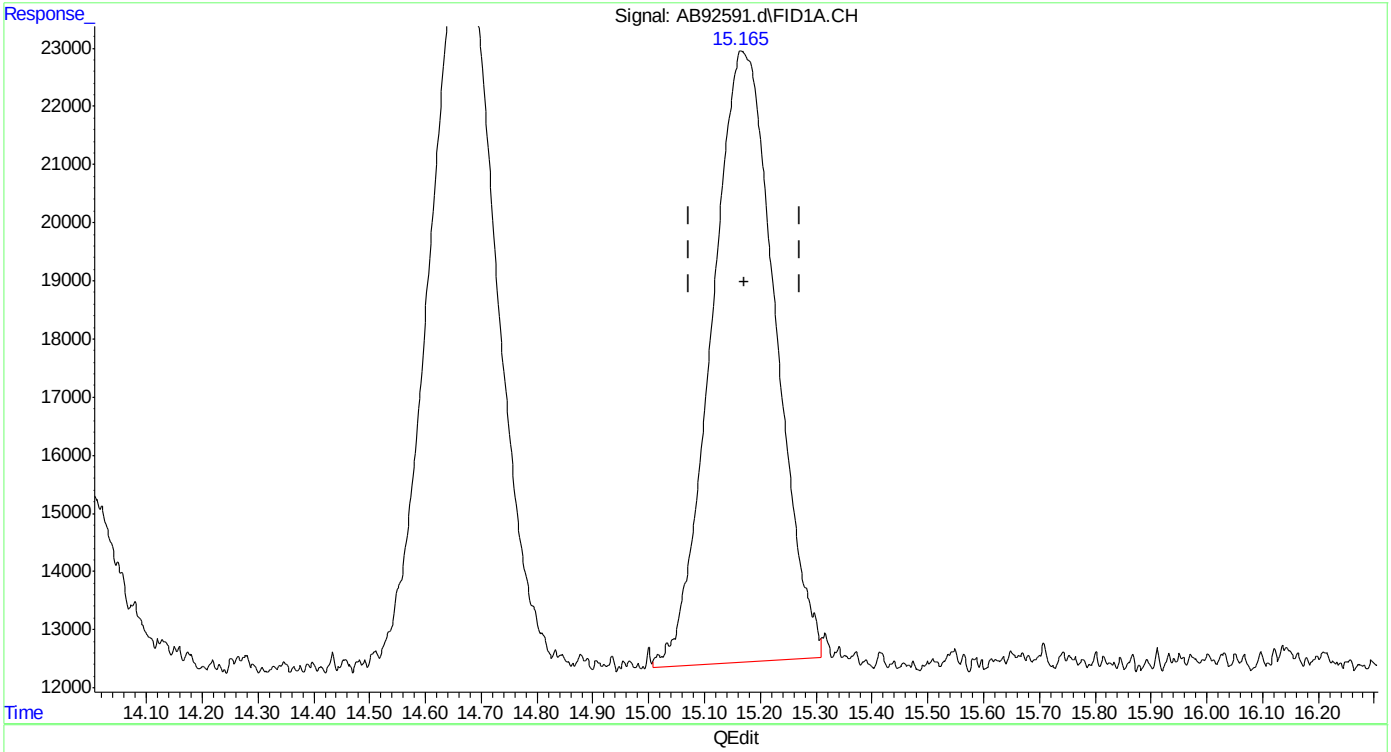
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:48 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:47:46
Operator  : haleyn
Sample    : ic5058-2
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(6) fluorobenzene (s)

15.166min 1.897 ppb

response 833597

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:20:51 2016

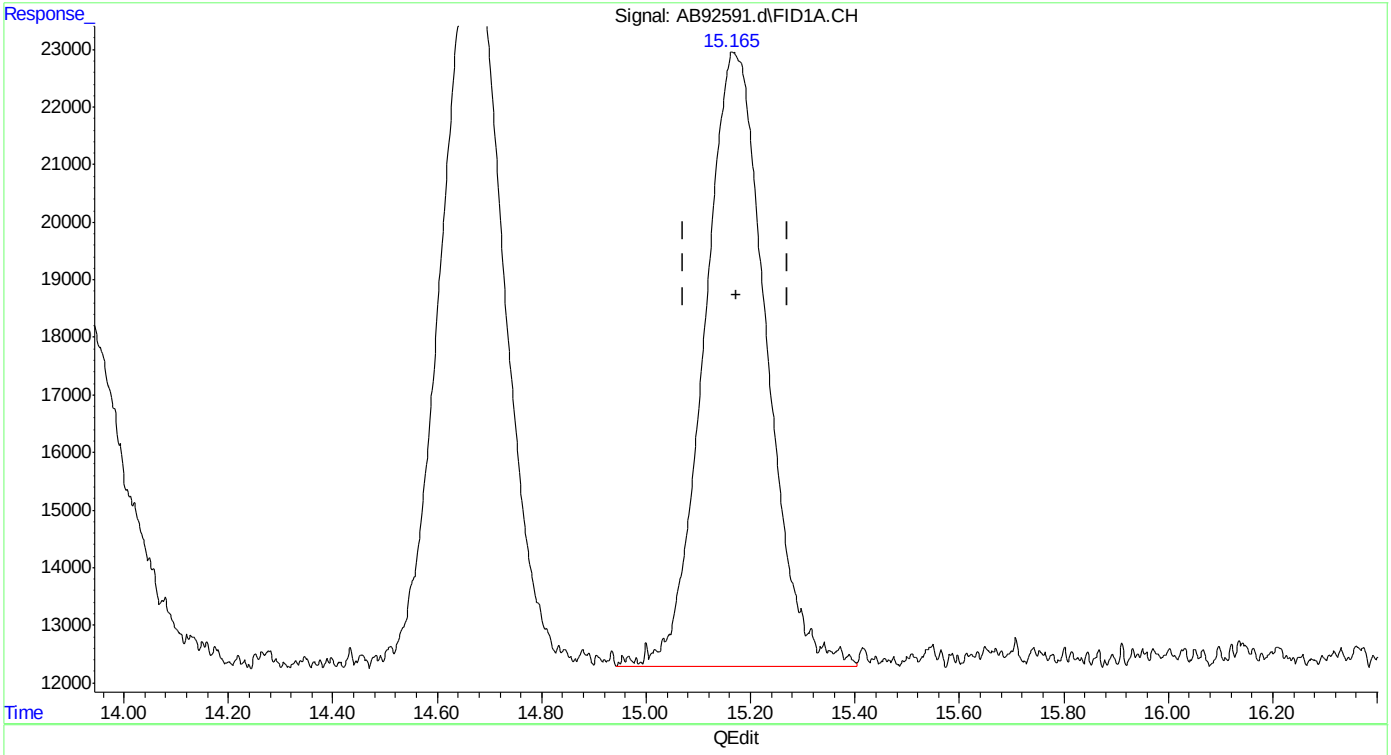
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) fluorobenzene (s)
15.165min 2.008 ppb m
response 882607

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:21:18 2016

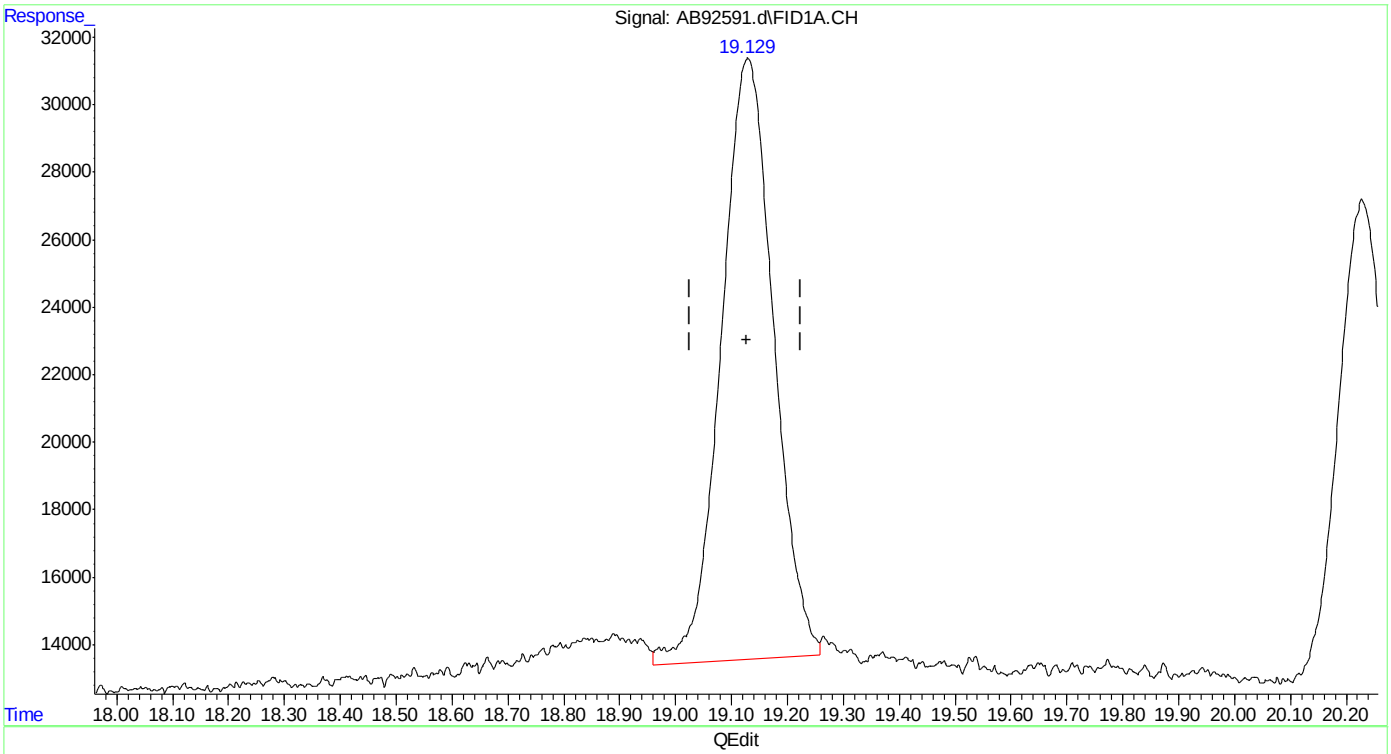
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
19.130min 1.885 ppb
response 1158268

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:21:25 2016

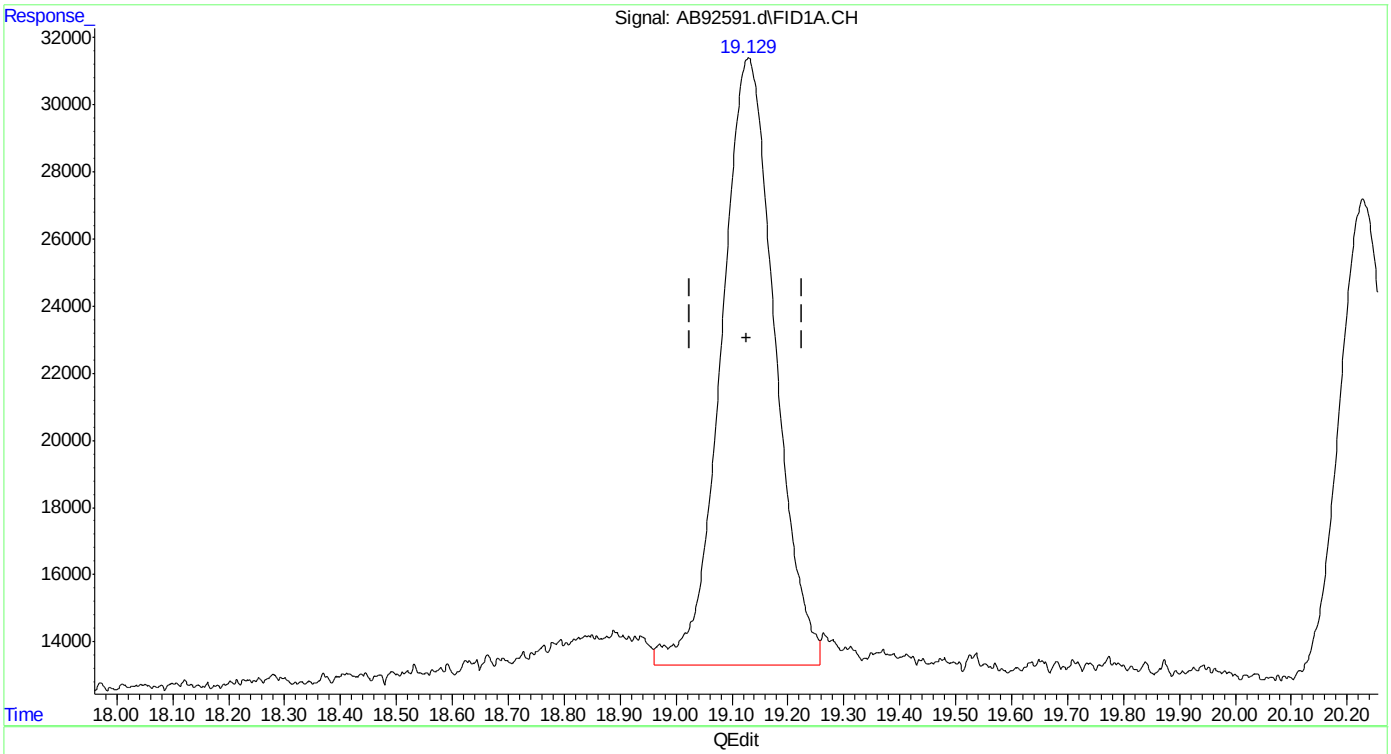
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
19.129min 1.955 ppb m
response 1201255

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:21:41 2016

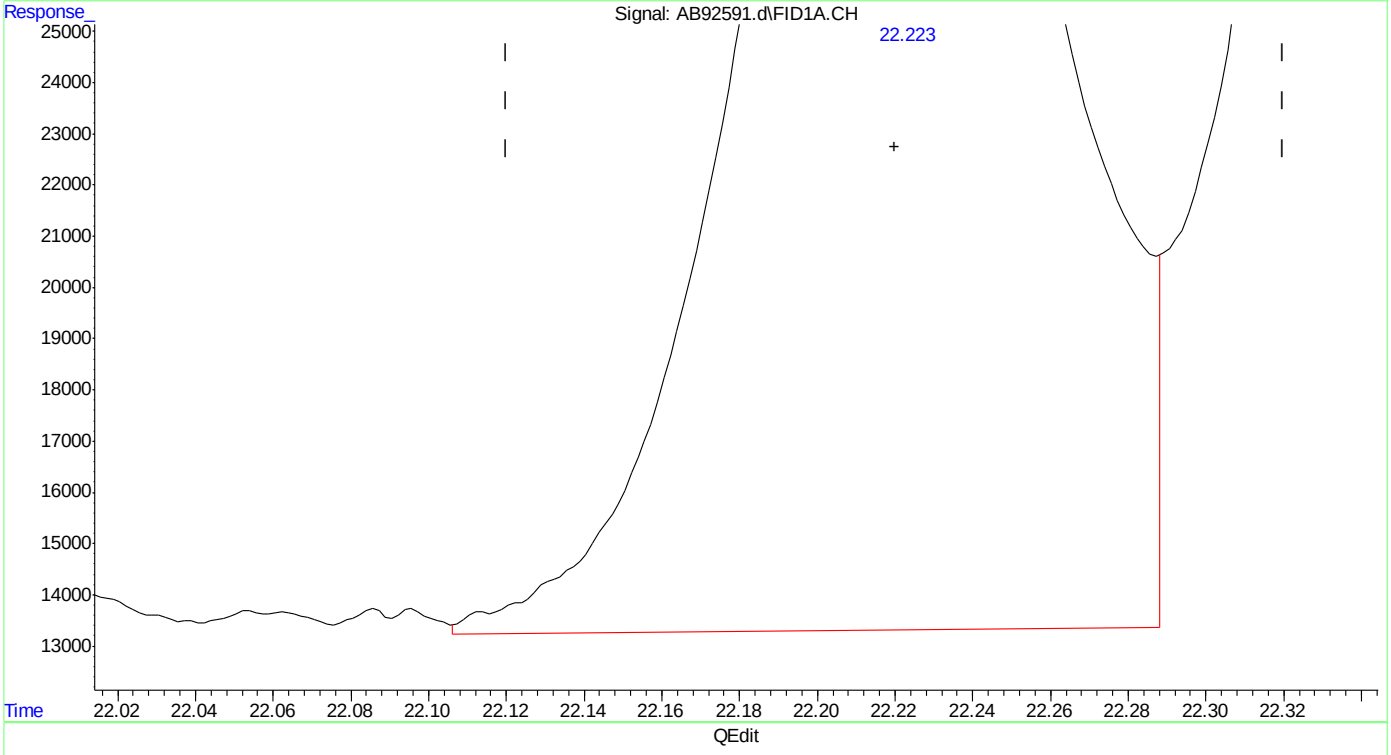
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(13) ethylbenzene
22.223min 1.895 ppb
response 1238375

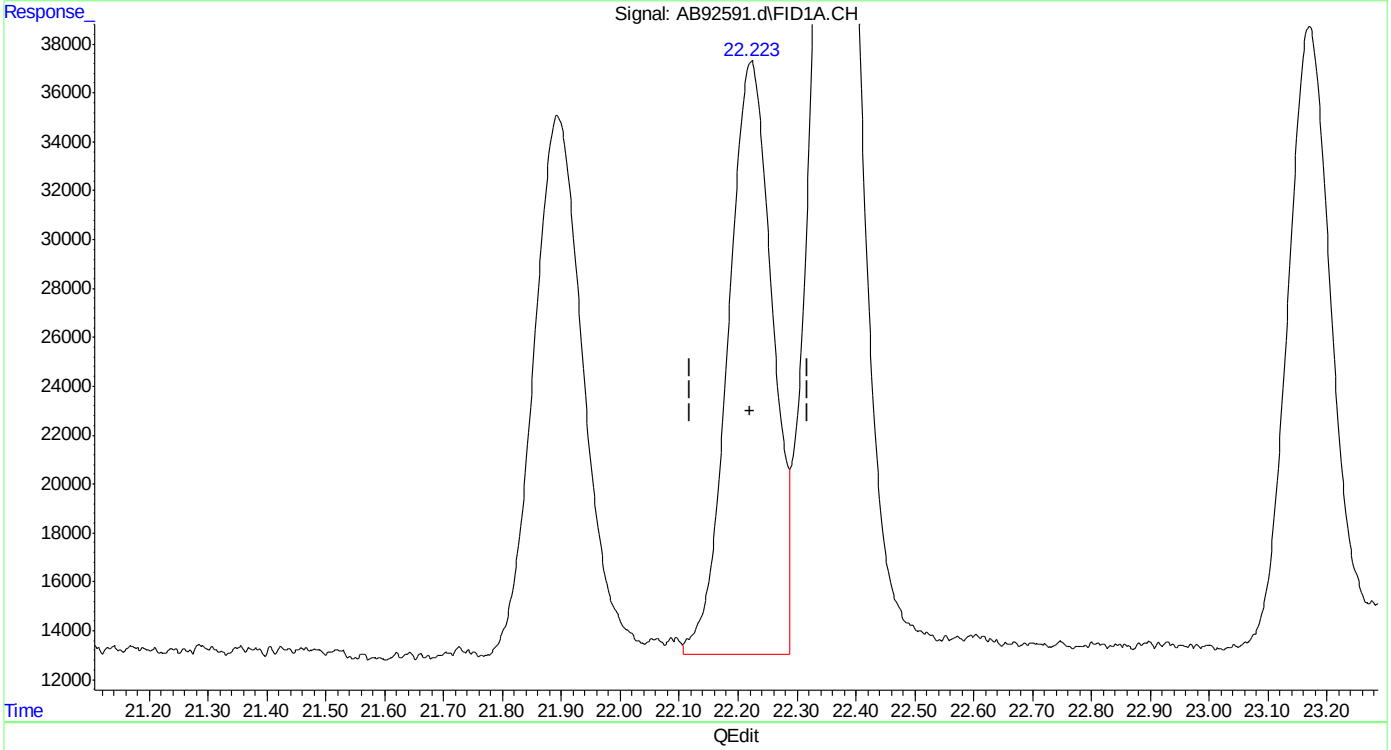
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(13) ethylbenzene
22.223min 1.942 ppb m
response 1269420

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:22:43 2016

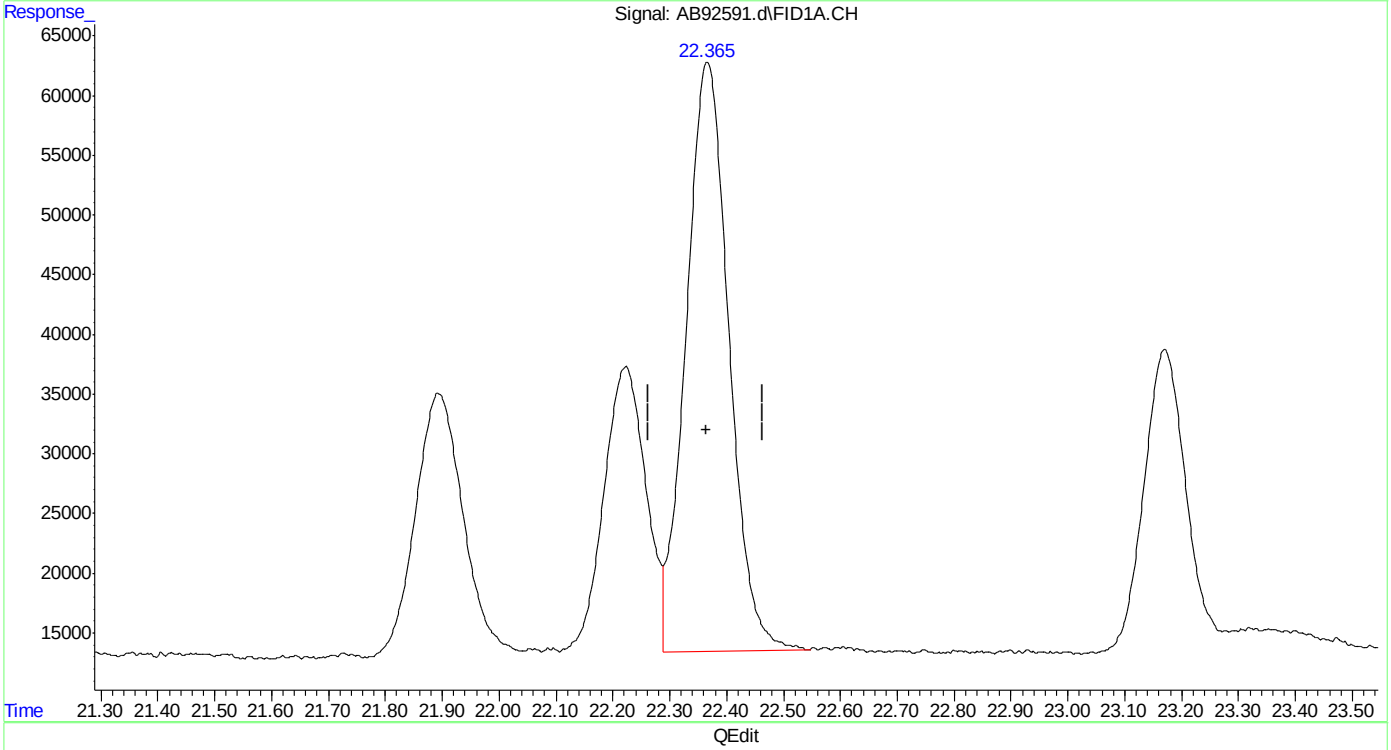
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) m,p-xylene
22.366min 3.809 ppb
response 2592627

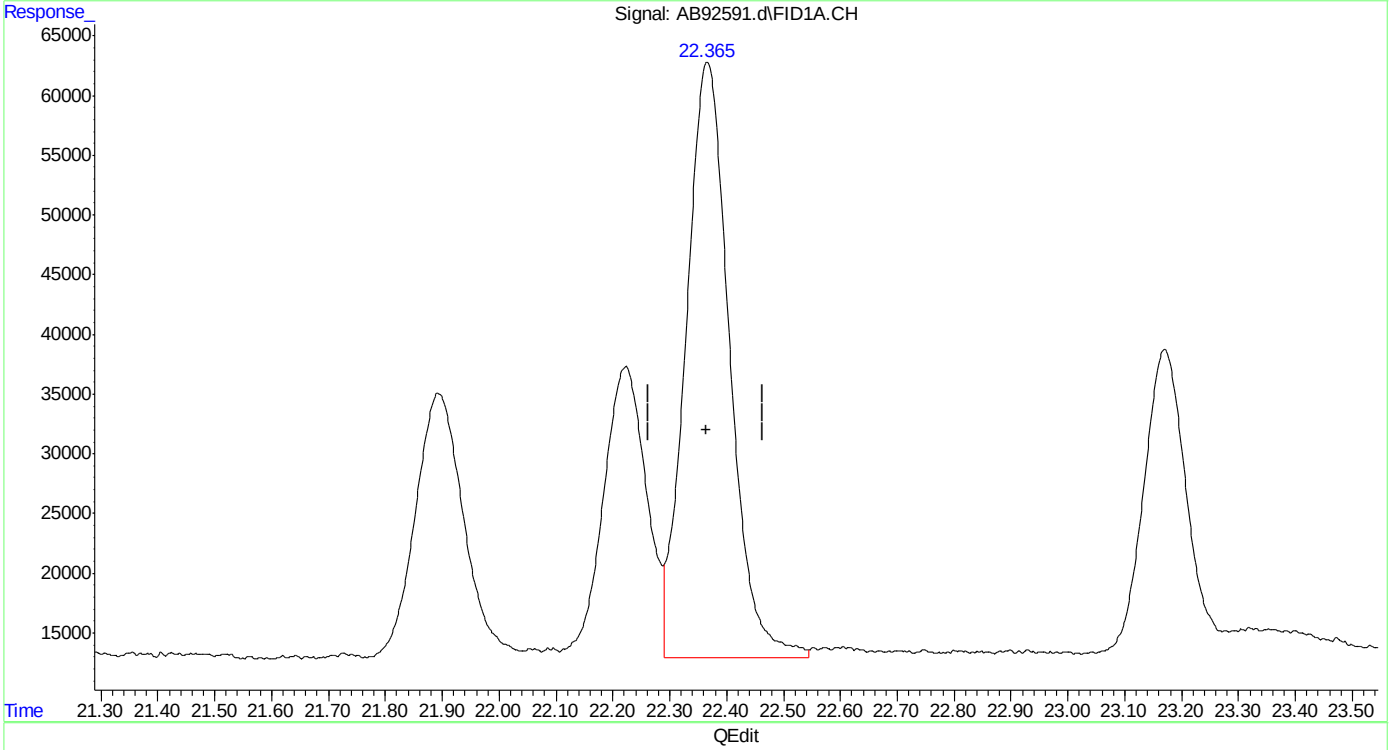
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) m,p-xylene
22.365min 3.910 ppb m
response 2661036

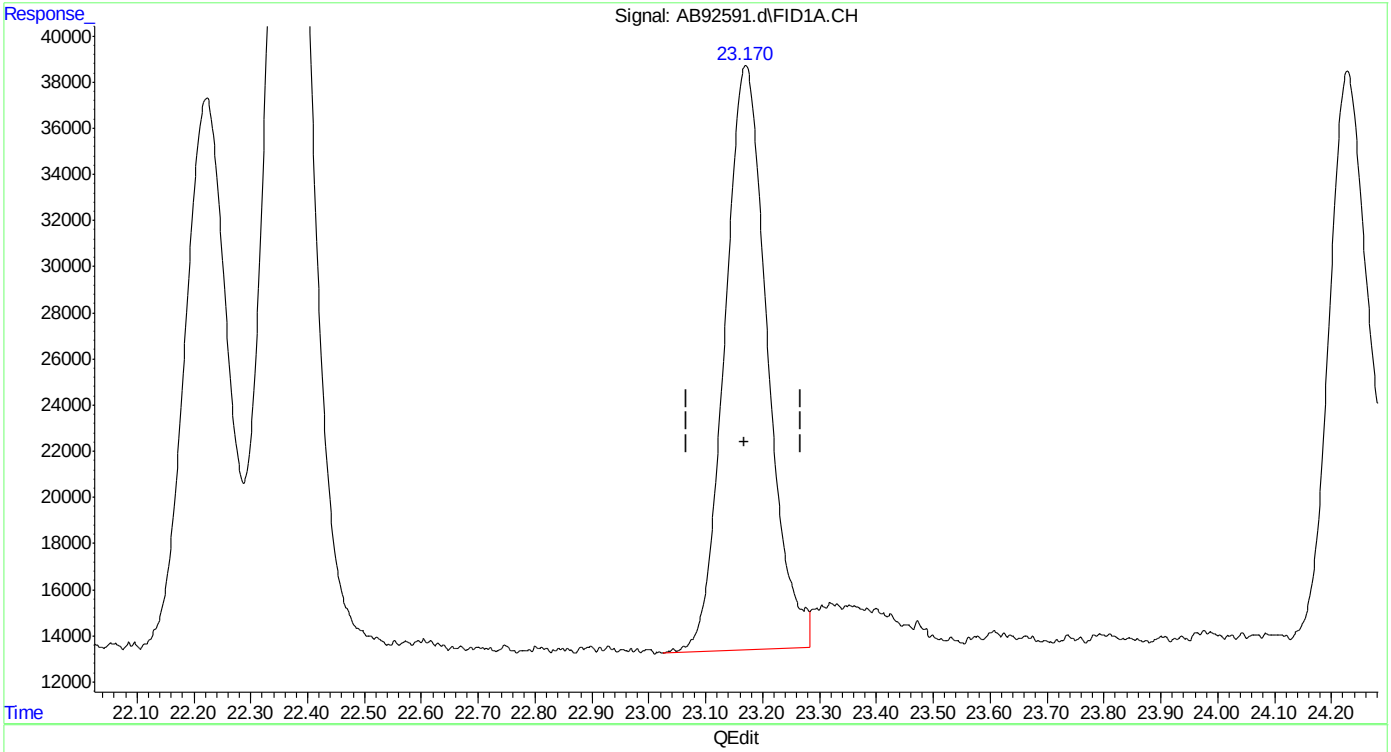
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) o-xylene
23.170min 1.938 ppb
response 1321423

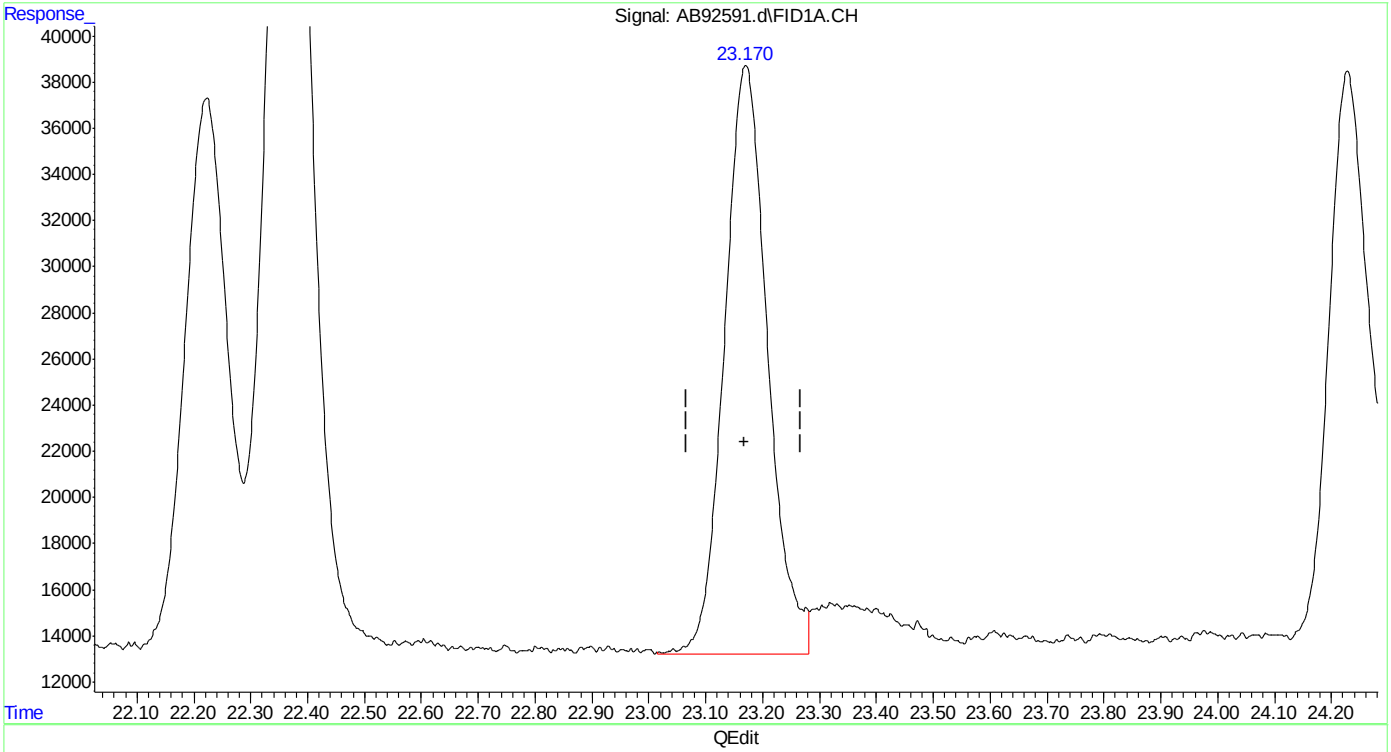
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) o-xylene
23.170min 1.969 ppb m
response 1342437

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:10 2016

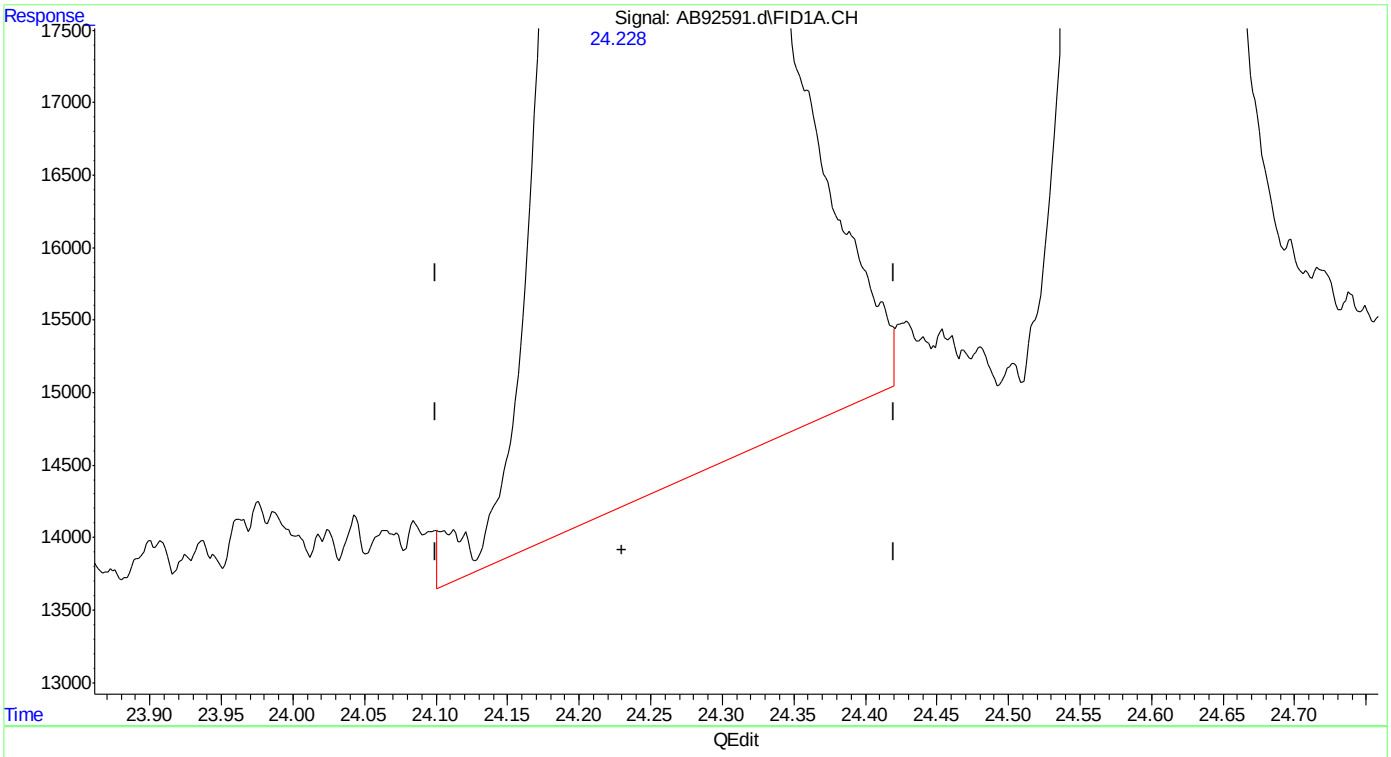
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) decane (h)
24.230min 2.202 ppb
response 1381186

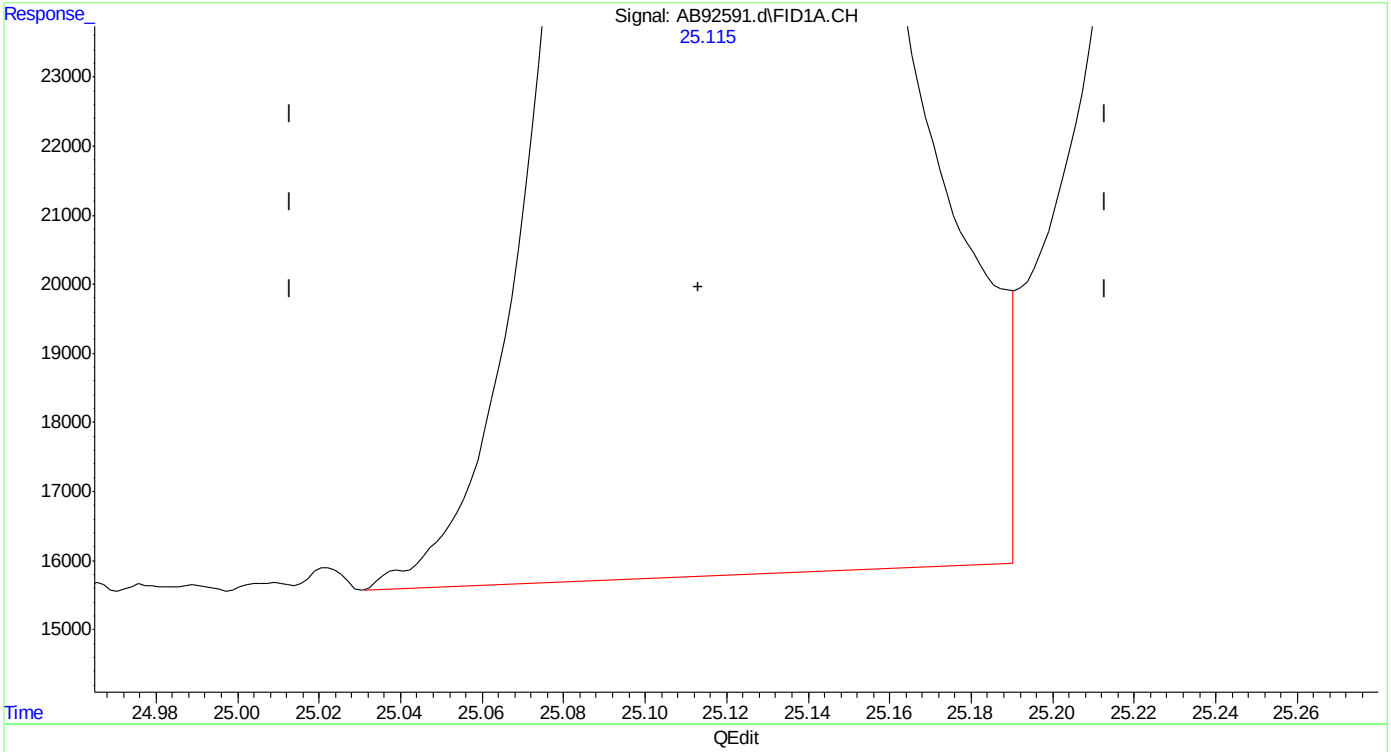
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.116min 1.961 ppb
response 1348010

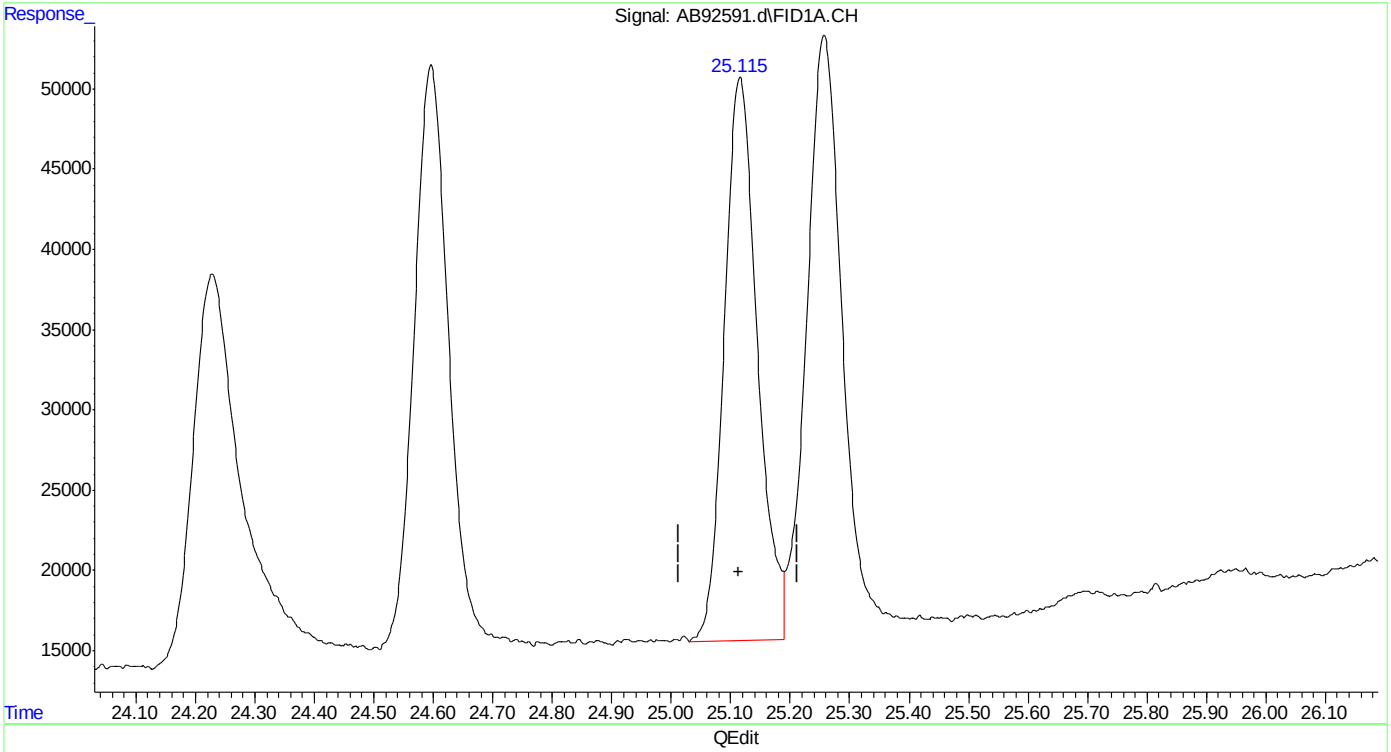
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:32 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.115min 1.976 ppb m
response 1358128

(+) = Expected Retention Time

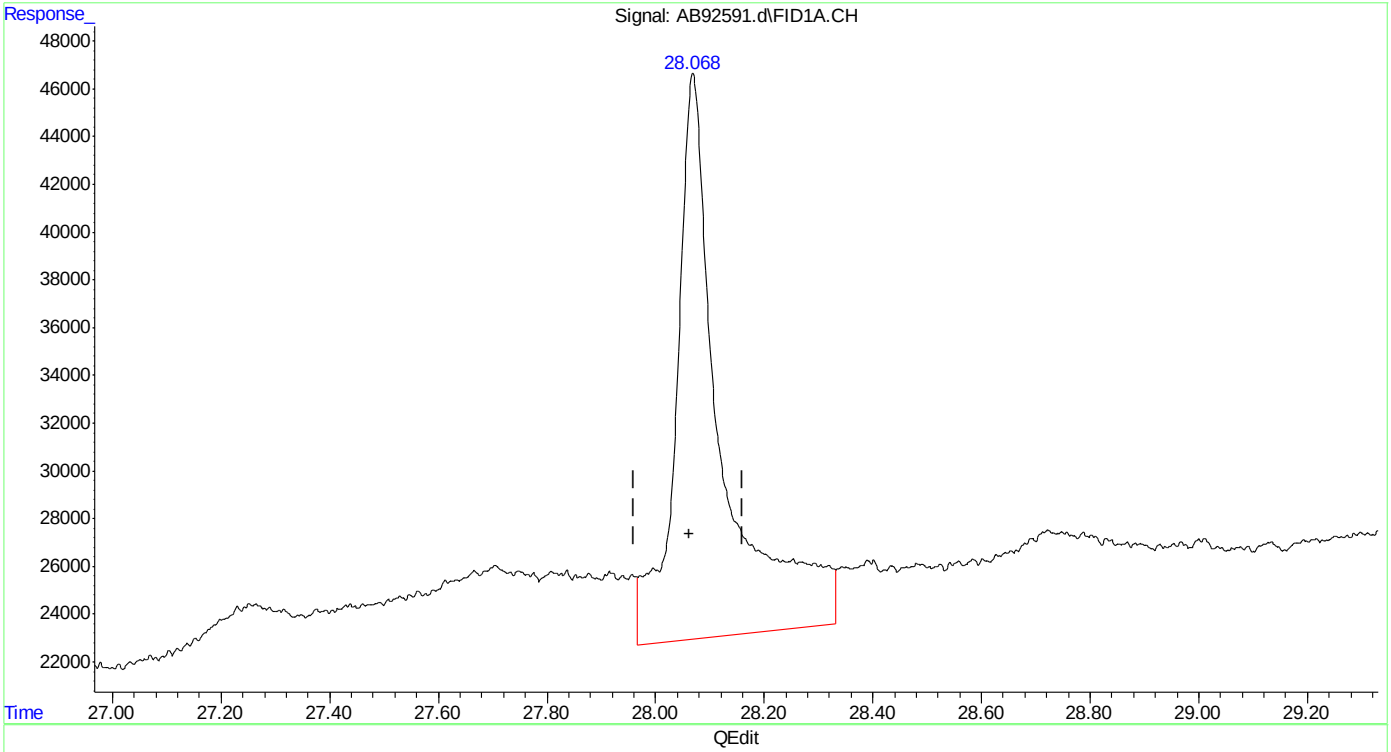
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.069min 3.731 ppb
response 1394371

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:24:23 2016

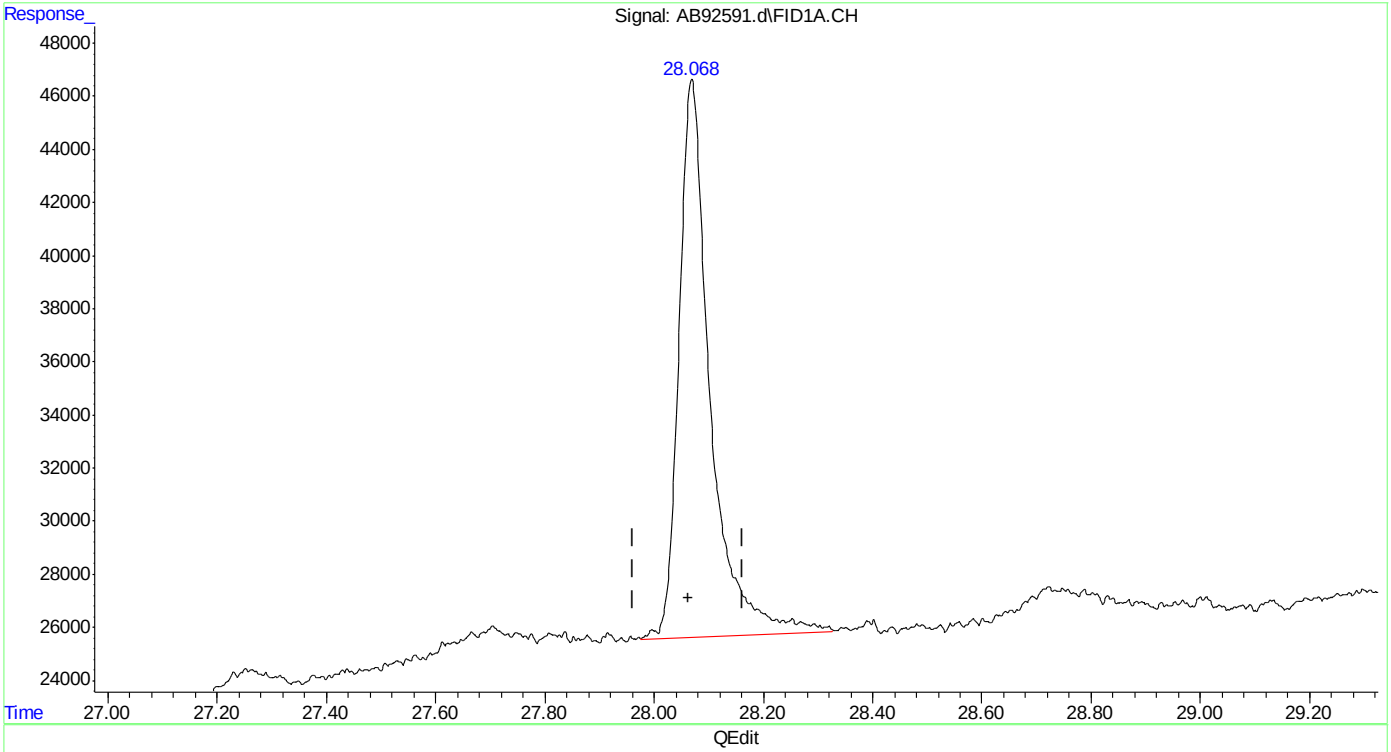
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.068min 2.234 ppb m
response 834686

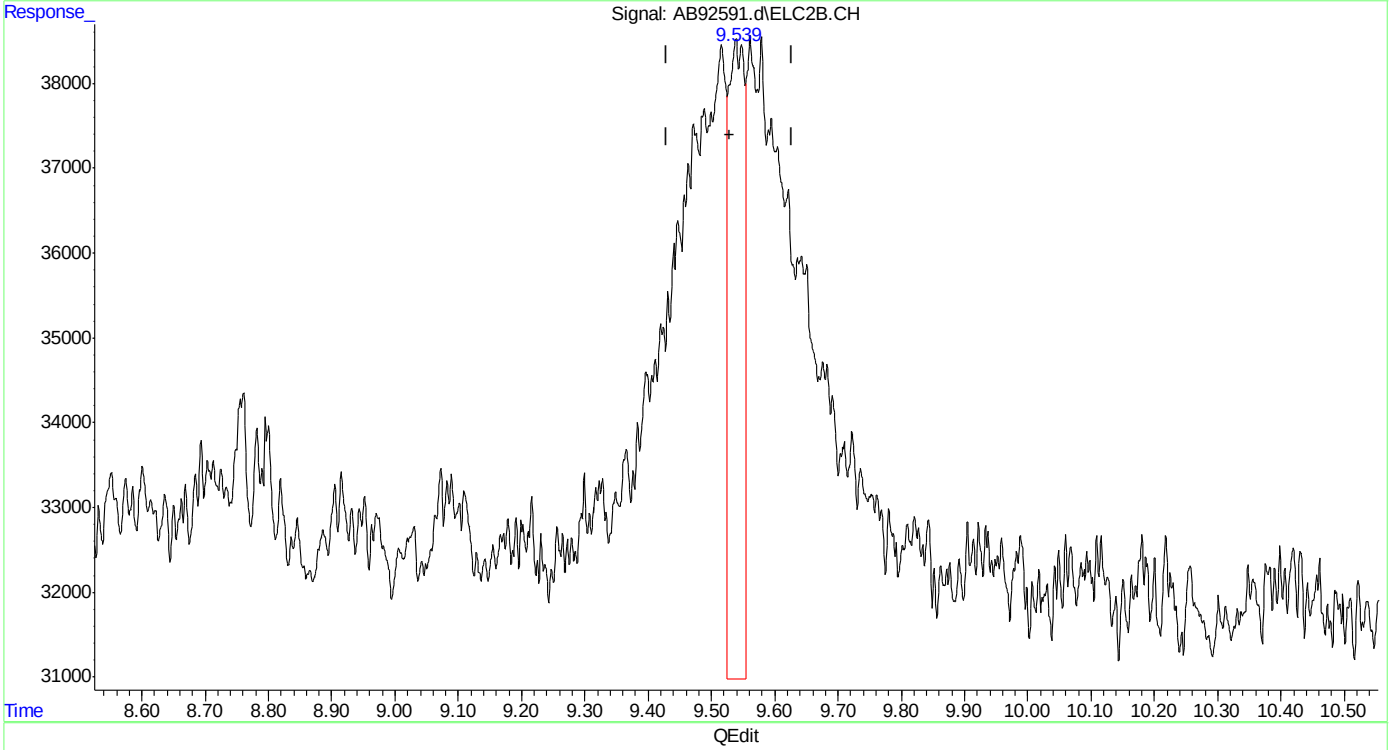
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:24:53 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.539min 0.241 ppb
response 125090

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:03 2016

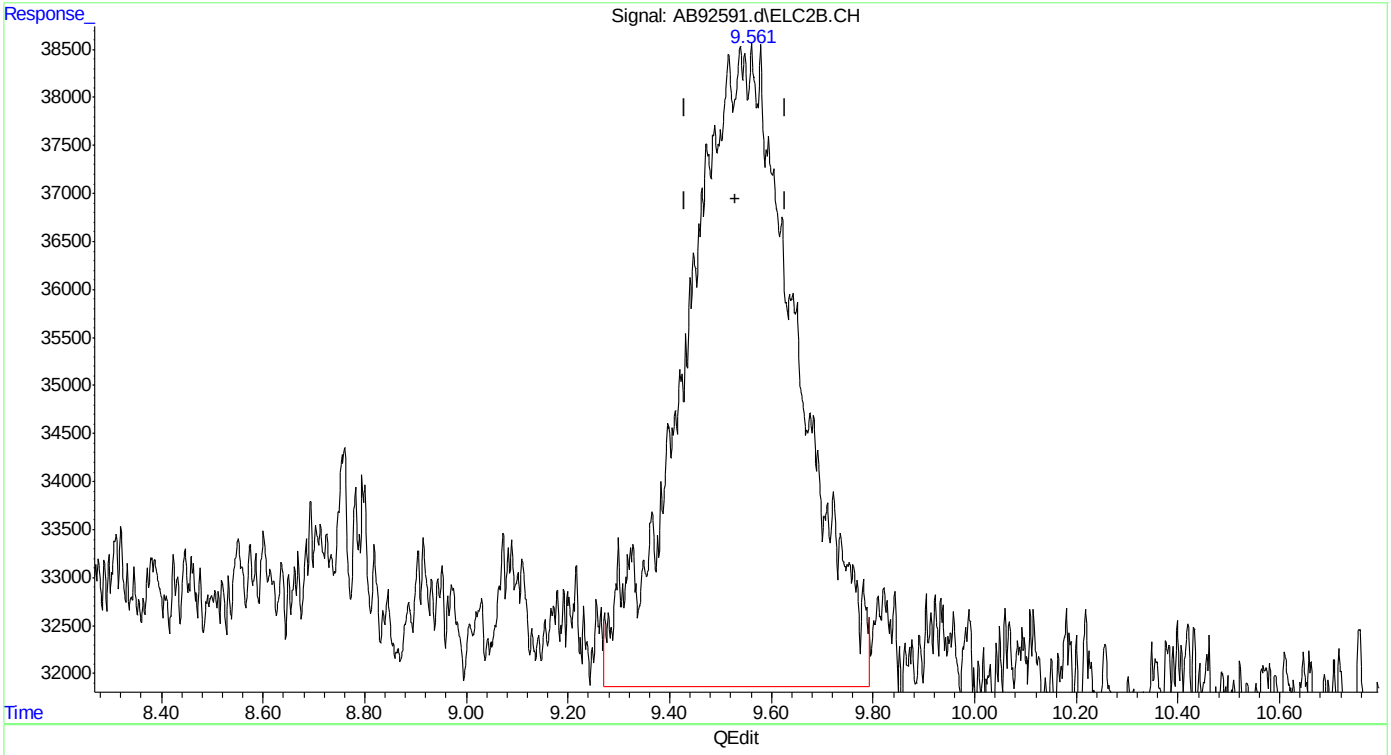
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.561min 1.952 ppb m
response 1012871

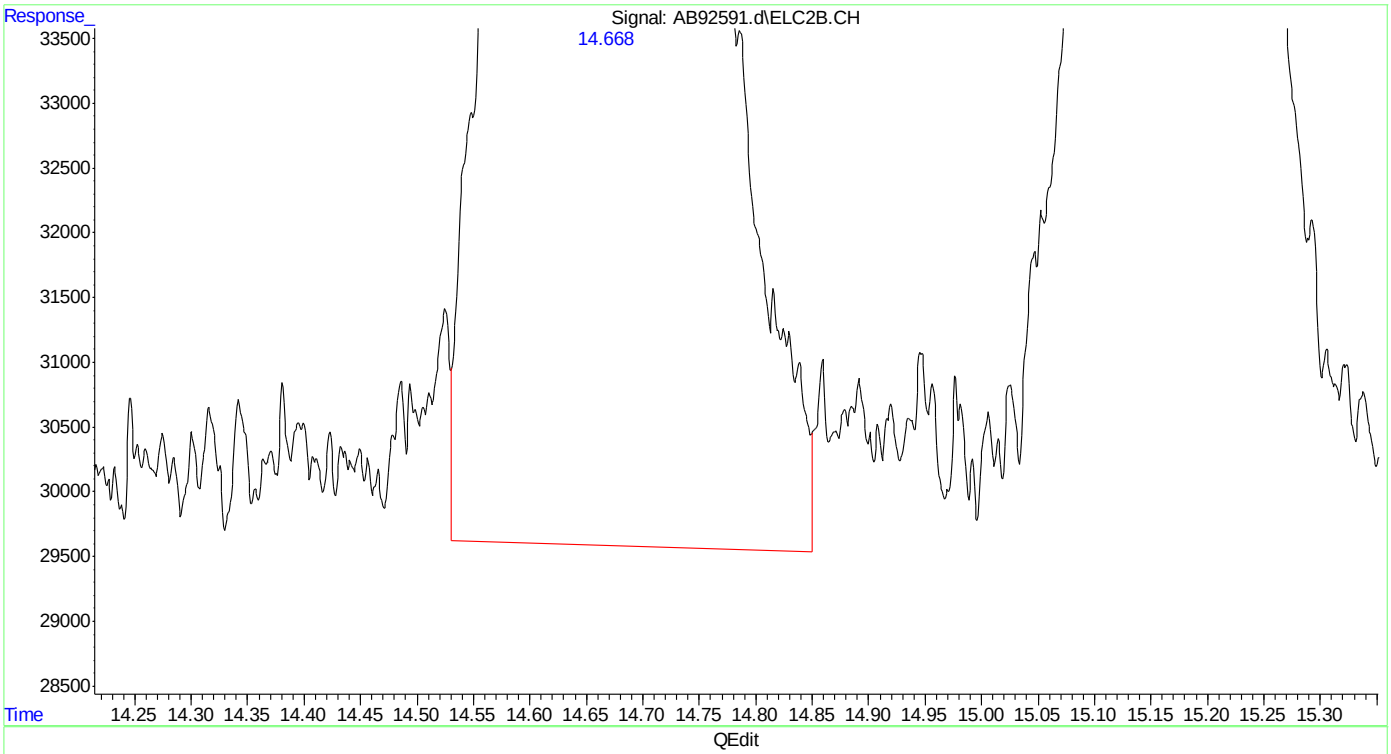
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:26 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:47:46
Operator  : haleyn
Sample    : ic5058-2
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) benzene #2

14.667min 1.846 ppb

response 2587232

(+) = Expected Retention Time

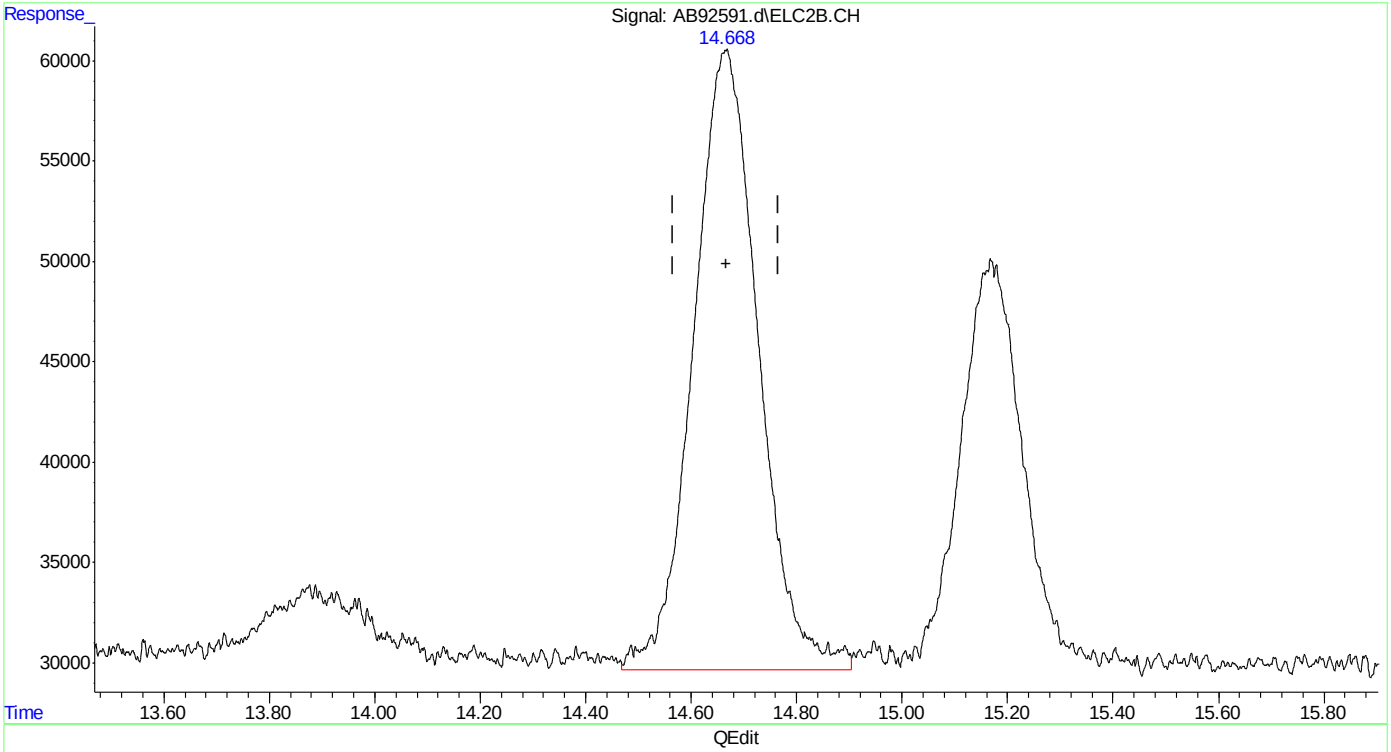
ab160112vphmaster.M Tue Jan 12 13:25:31 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:47:46
Operator  : haleyn
Sample    : ic5058-2
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) benzene #2

14.668min 1.883 ppb m

response 2639435

(+) = Expected Retention Time

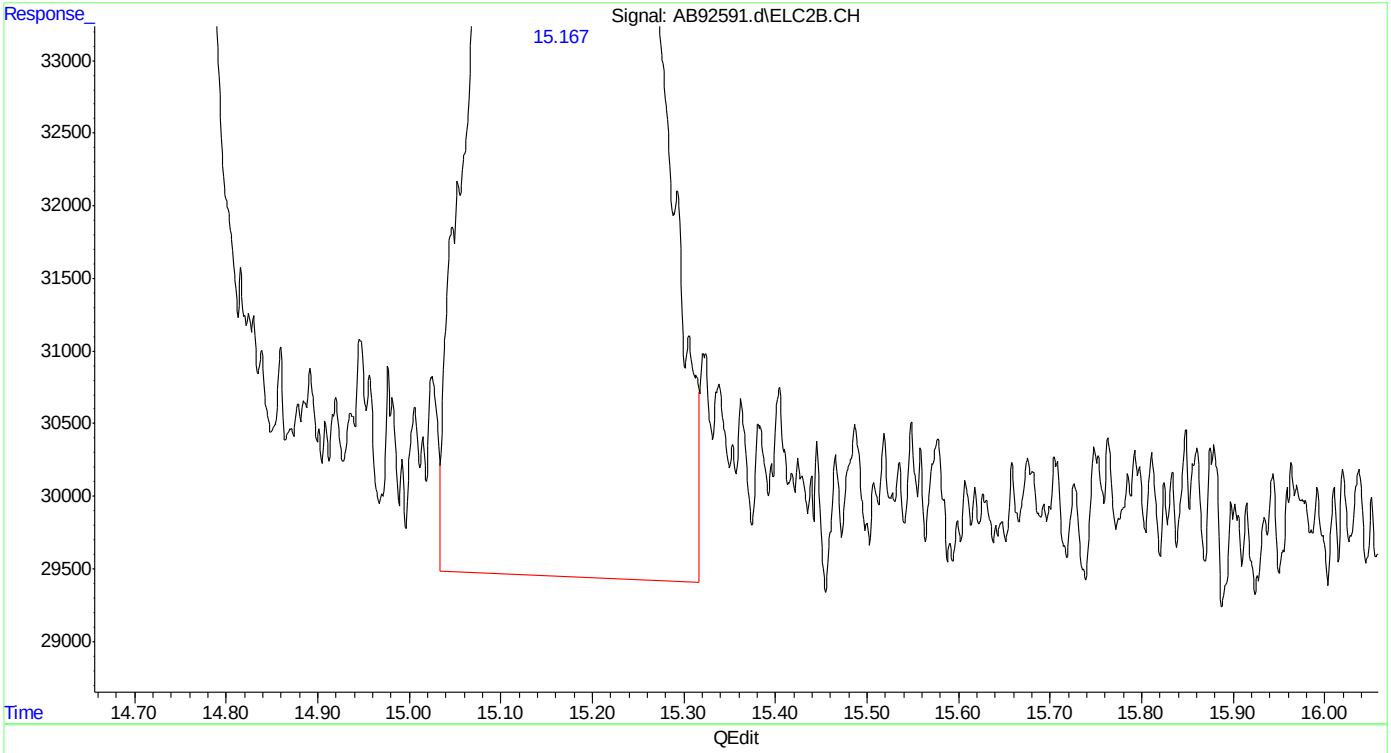
ab160112vphmaster.M Tue Jan 12 13:26:00 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
15.168min 1.912 ppb
response 1672167

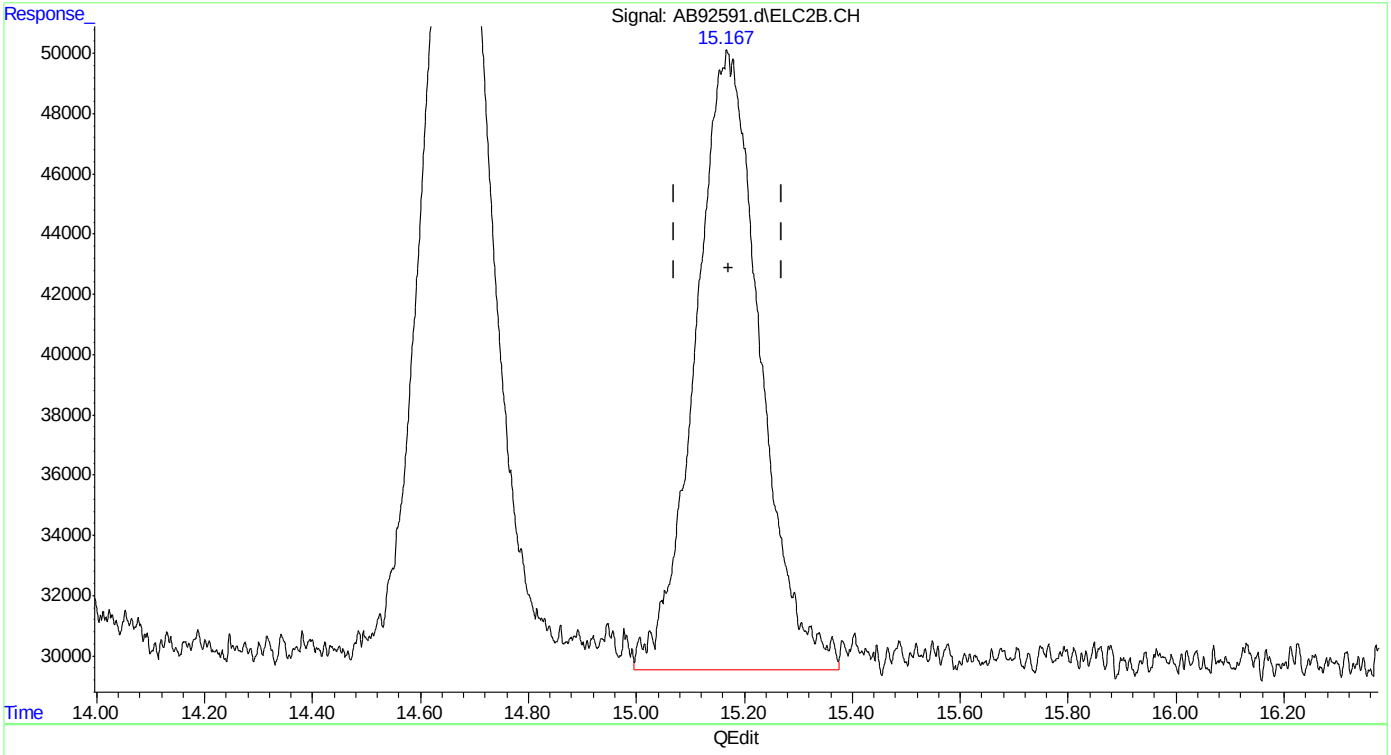
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:47:46
Operator  : haleyn
Sample    : ic5058-2
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(25) fluorobenzene #2 (s)

15.167min 1.949 ppb m

response 1704376

(+) = Expected Retention Time

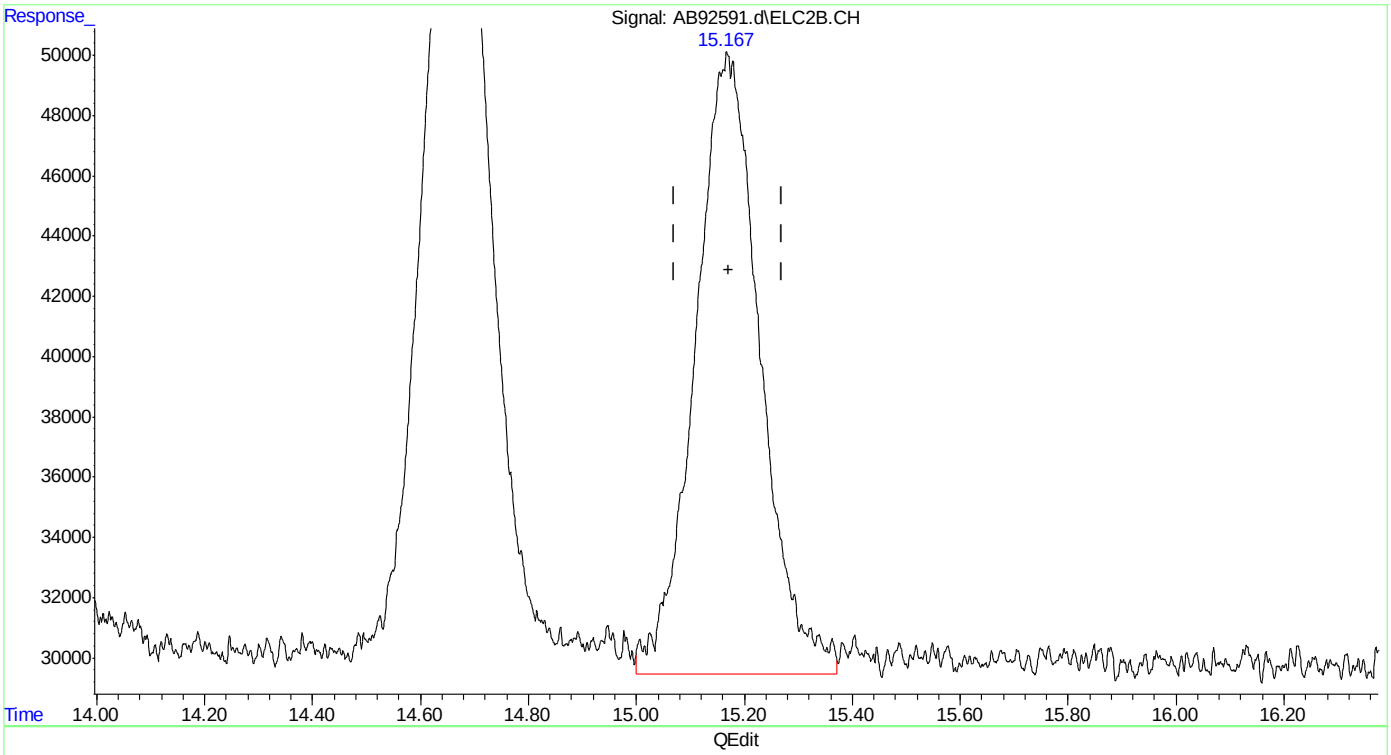
ab160112vphmaster.M Tue Jan 12 13:26:12 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
15.167min 1.968 ppb m
response 1721246

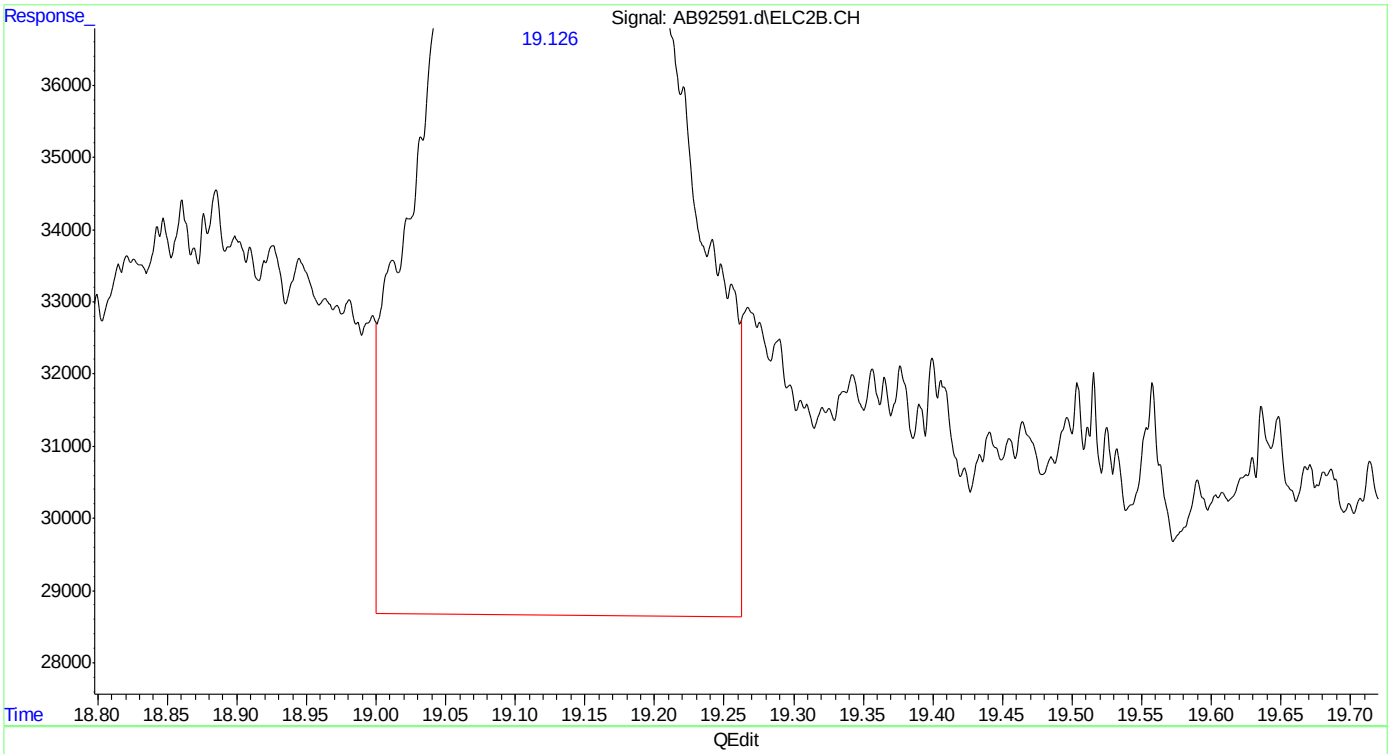
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
19.126min 2.210 ppb
response 2694419

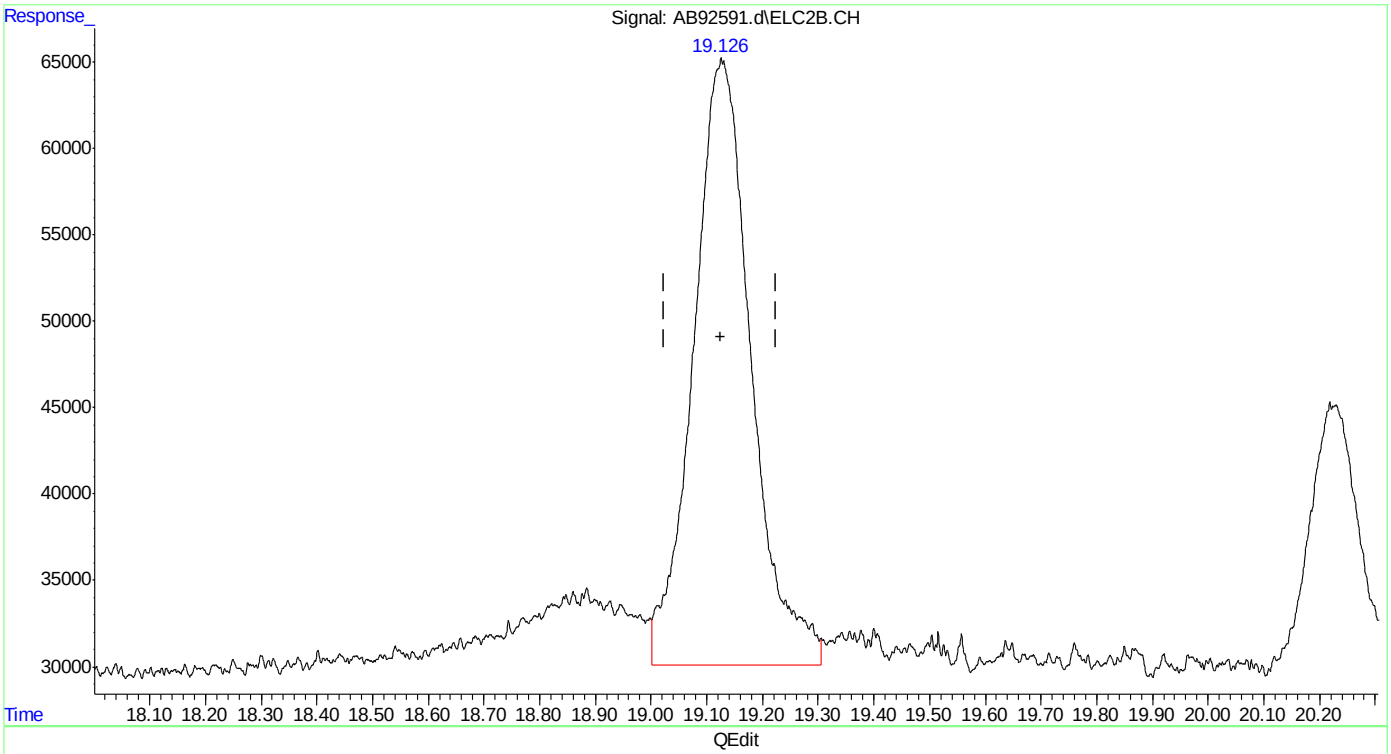
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:28 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
19.126min 2.070 ppb m
response 2524690

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:37 2016

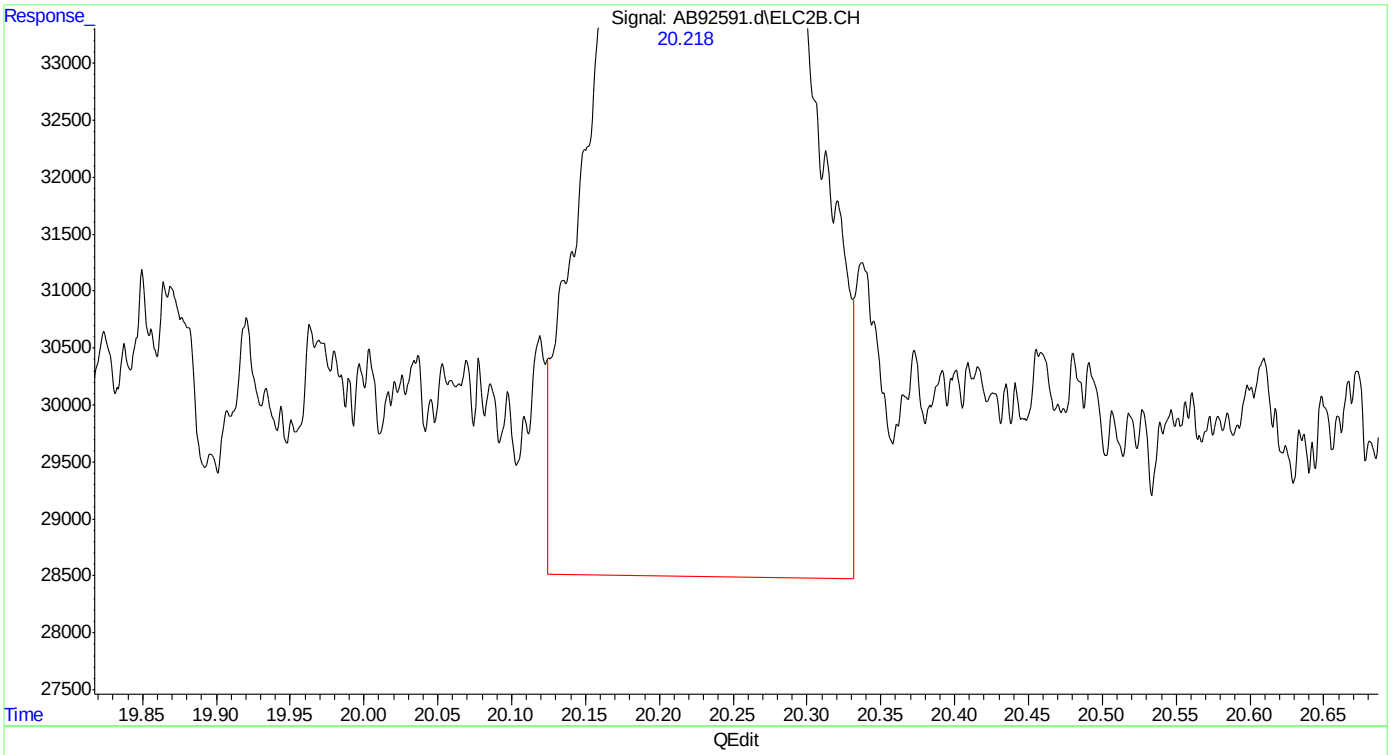
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
20.219min 2.302 ppb
response 1091509

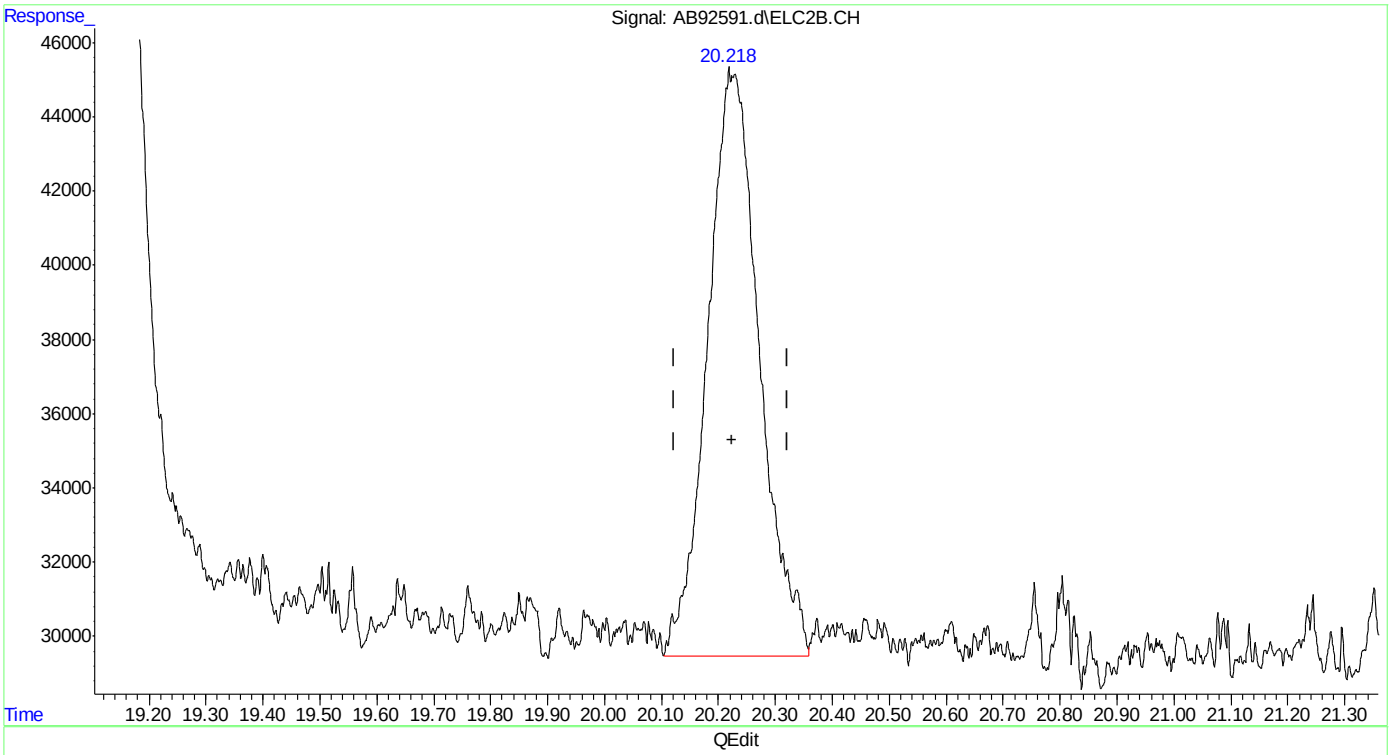
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
20.218min 2.099 ppb m
response 995138

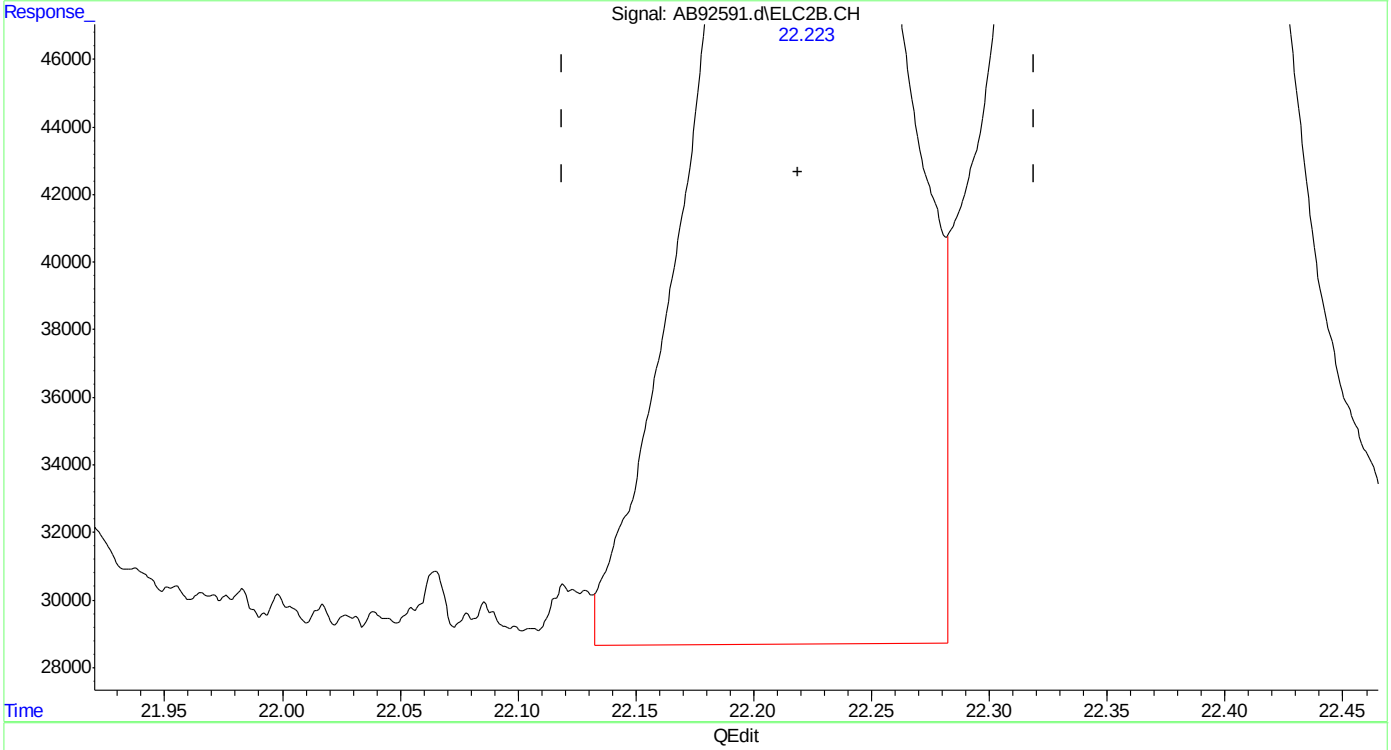
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:06 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(28) ethylbenzene #2
22.222min 1.851 ppb
response 1847401

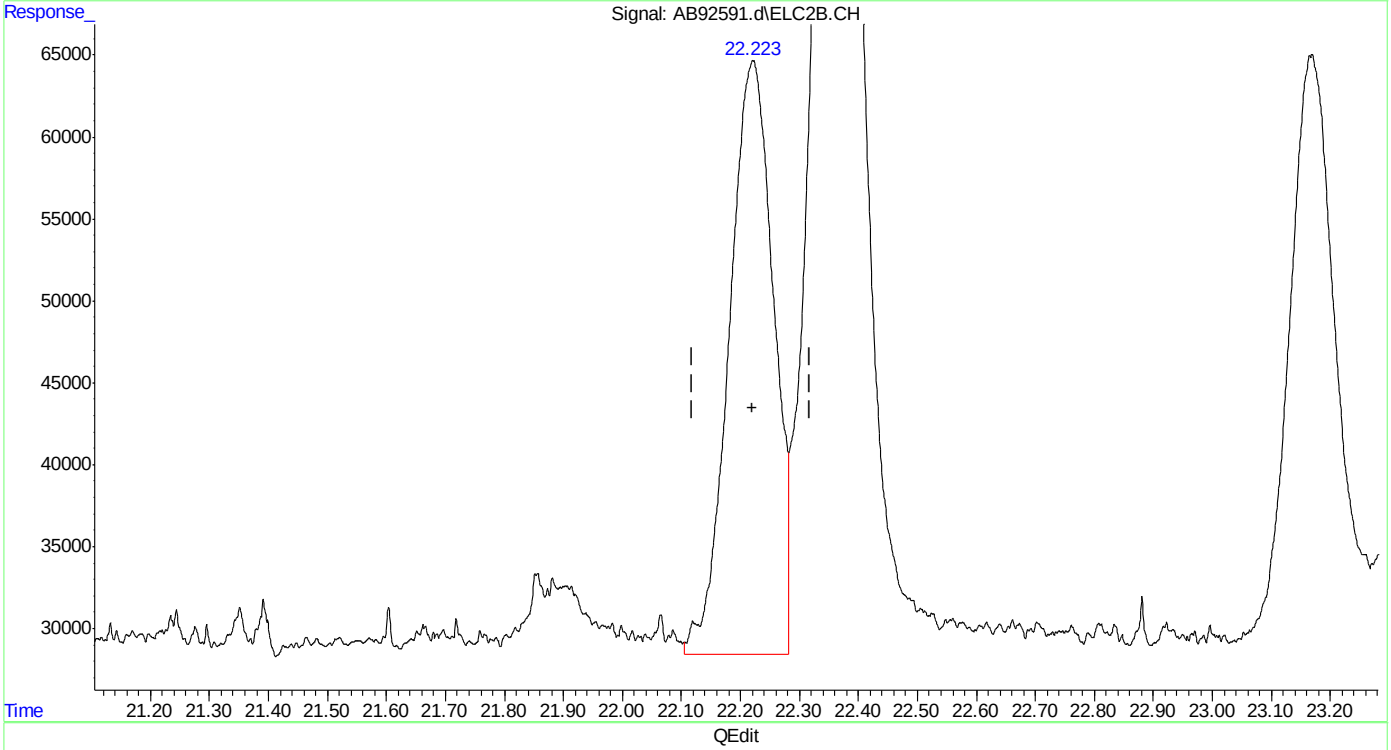
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(28) ethylbenzene #2
22.223min 1.893 ppb m
response 1889943

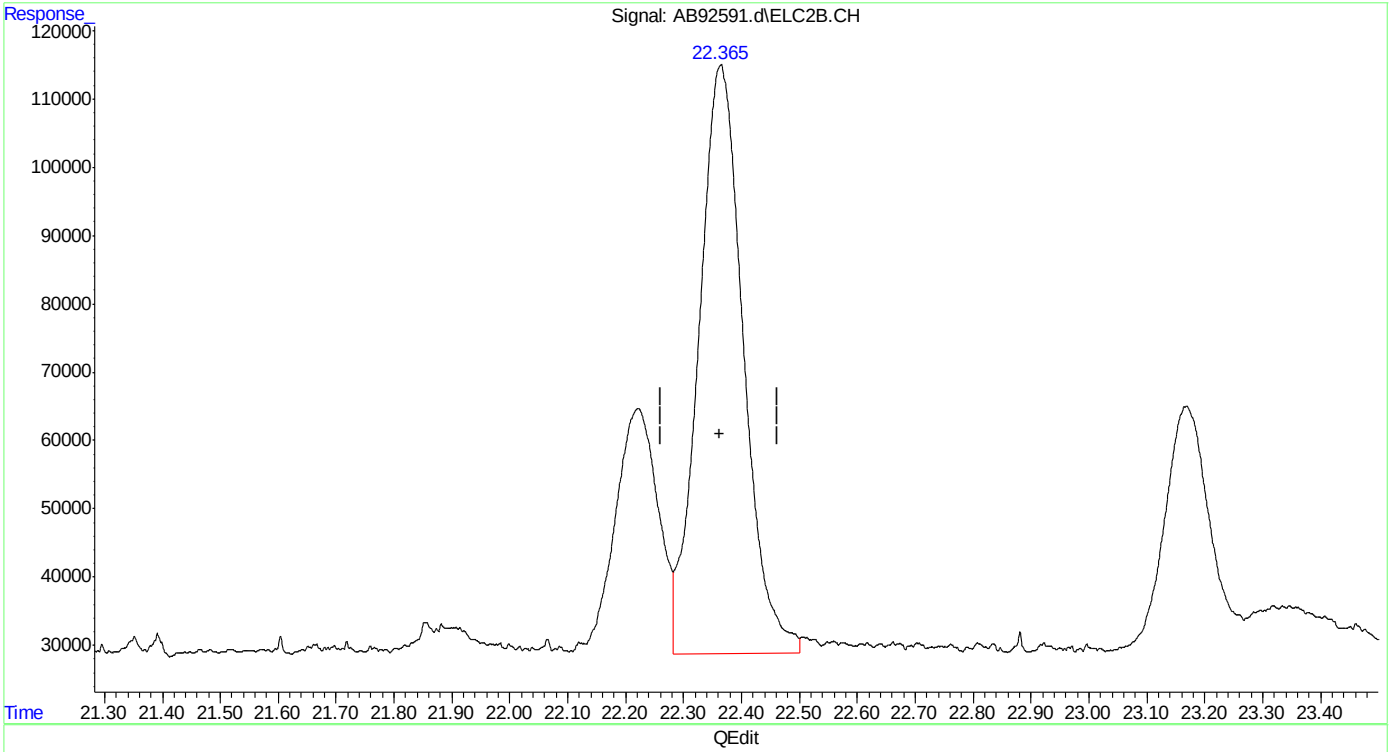
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:31 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(29) m,p-xylene #2
22.364min 3.774 ppb
response 4626142

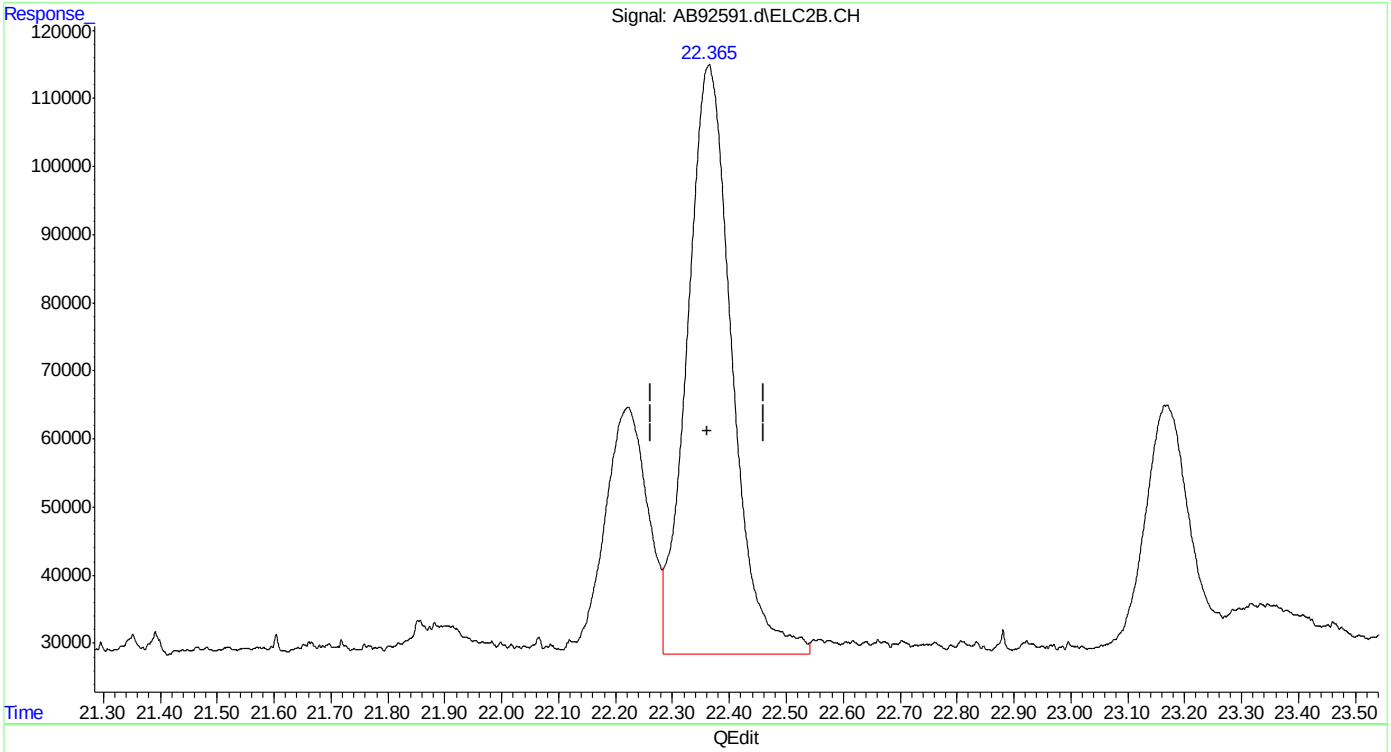
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(29) m,p-xylene #2
22.365min 3.849 ppb m
response 4718026

(+) = Expected Retention Time

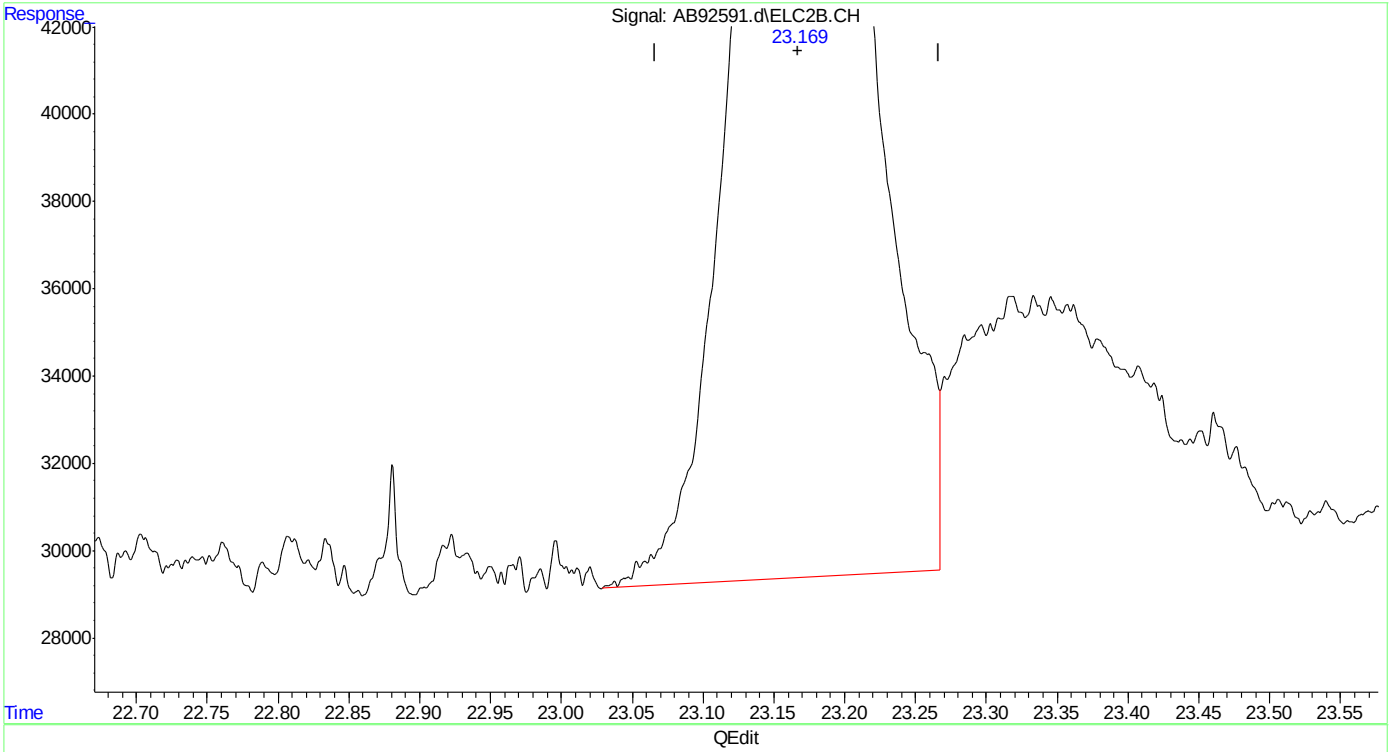
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(30) o-xylene #2
23.169min 1.902 ppb
response 1923475

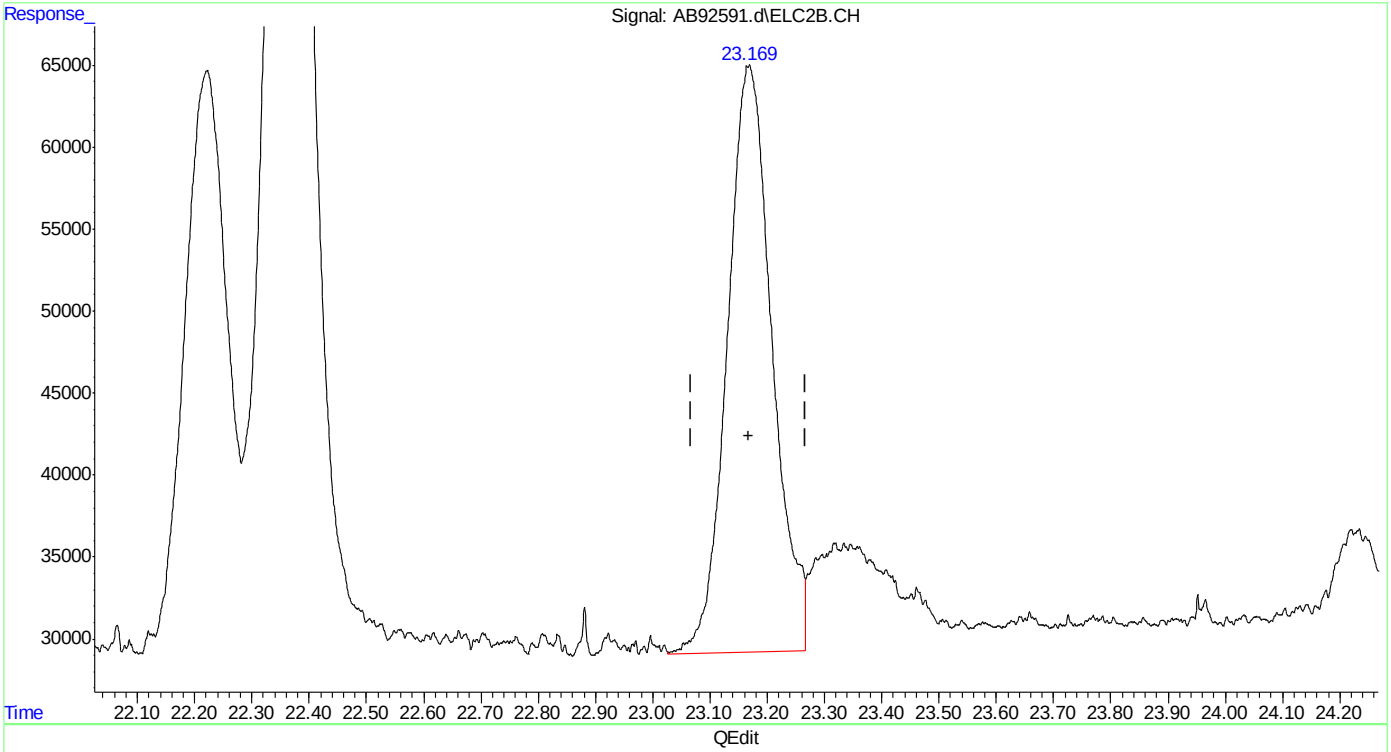
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(30) o-xylene #2
23.169min 1.927 ppb m
response 1948764

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:55 2016 Page: 1

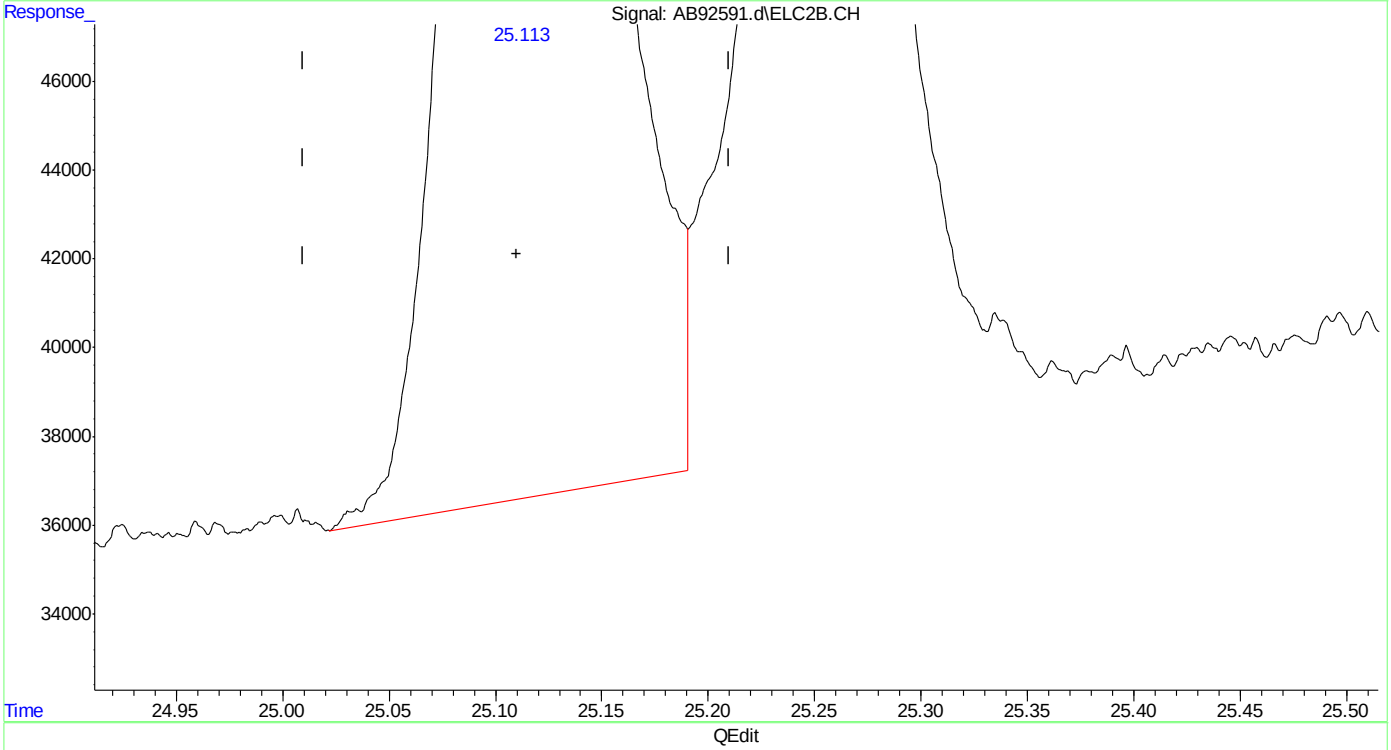
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.113min 1.893 ppb
response 2008192

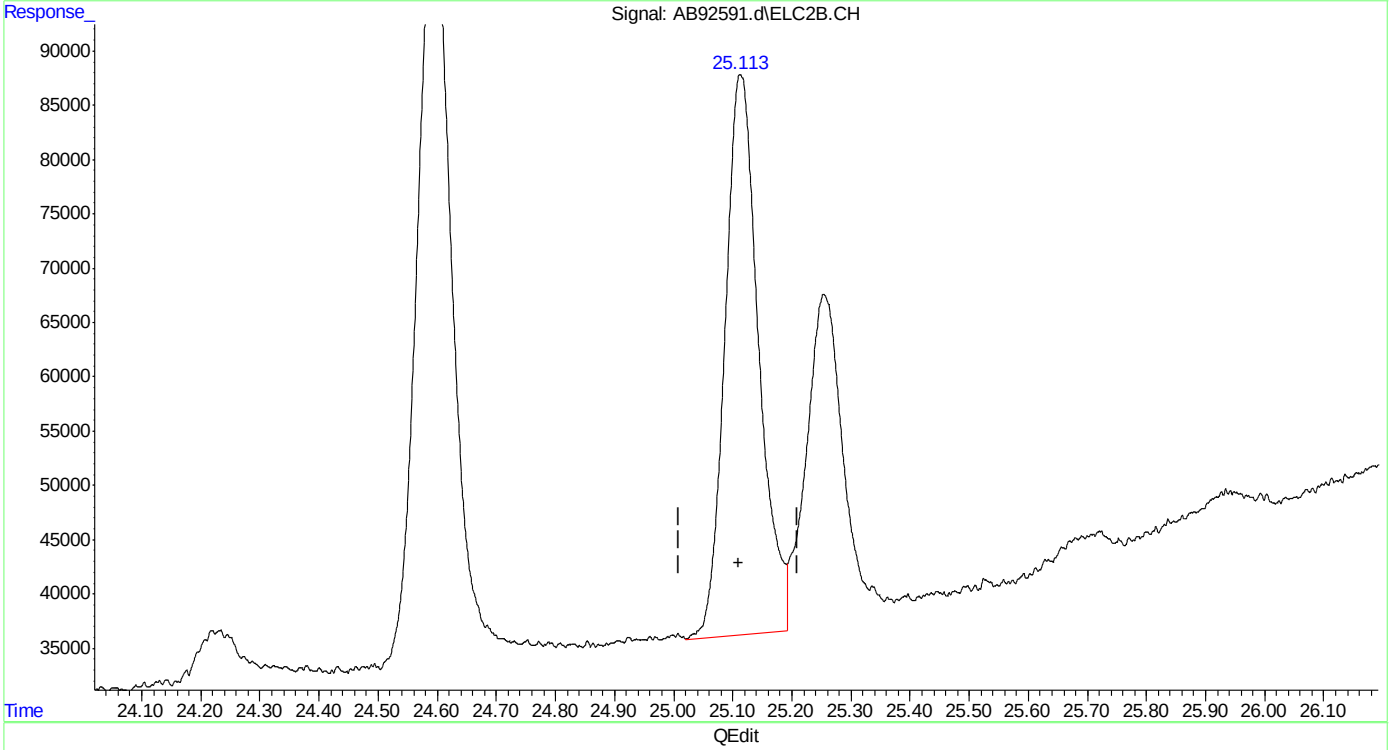
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:28:01 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.113min 1.940 ppb m
response 2057662

(+) = Expected Retention Time

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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(33) naphthalene #2
28.066min 3.878 ppb
response 3167219

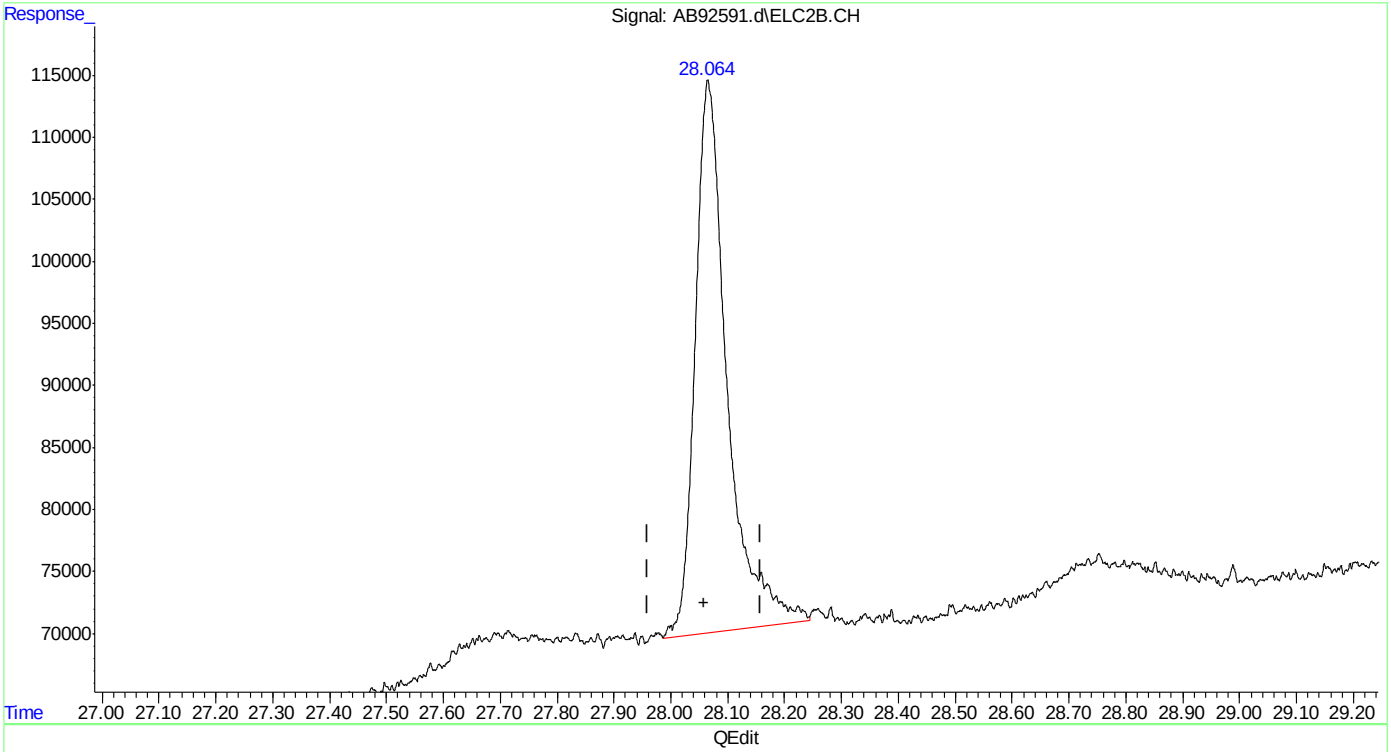
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.064min 2.137 ppb m
response 1745023

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:28:57 2016

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Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:16 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	15.169	468381	1.065	ppb	m
Spiked Amount 50.000		Recovery =	2.13%		
9) s 2,3,4-trifluorotoluene	20.232	457239	1.099	ppb	
Spiked Amount 50.000		Recovery =	2.20%		
25) s fluorobenzene #2	15.174	871999	1.001	ppb	m
Spiked Amount 50.000		Recovery =	2.00%		
27) s 2,3,4-trifluorotoluen...	20.241	500356	1.042	ppb	m
Spiked Amount 50.000		Recovery =	2.08%		
Target Compounds					
1) h rt5.5-7	6.370	423417	1.126	ppb	m
2) h rt7/10	8.710	474249	1.098	ppb	m
3) mtbe	9.565	222666	1.009	ppb	m
4) h rt10/13	13.890	532157	1.086	ppb	m
5) benzene	14.674	555388	1.000	ppb	m
8) toluene	19.128	611960	1.001	ppb	m
11) h rt20/25	21.900	636900	1.023	ppb	m
13) ethylbenzene	22.221	649345	1.001	ppb	m
14) m,p-xylene	22.370	1369525	2.024	ppb	m
15) o-xylene	23.175	672755	0.990	ppb	m
16) h decane	24.230	652274	1.018	ppb	m
17) t 1,3,5-trimethylbenzene	24.601	771508	1.064	ppb	m
18) 1,2,4-trimethylbenzene	25.121	686719	1.002	ppb	
19) h butylcyclohexane	25.263	784280	1.138	ppb	m
20) naphthalene	28.077	459832	1.196	ppb	m
23) mtbe #2	9.540	515933	1.000	ppb	m
24) benzene #2	14.661	1385814	1.003	ppb	m
26) toluene #2	19.126	1234262	1.003	ppb	m
28) ethylbenzene #2	22.219	964169	0.979	ppb	m
29) m,p-xylene #2	22.369	2432291	2.003	ppb	m
30) o-xylene #2	23.170	1005511	1.003	ppb	
31) t 1,3,5-trimethylbenzen...	24.599	1489937	1.038	ppb	
32) 1,2,4-trimethylbenzen...	25.121	1052080	0.999	ppb	m
33) naphthalene #2	28.075	922848	1.111	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	1056385	1.002	ppb	m

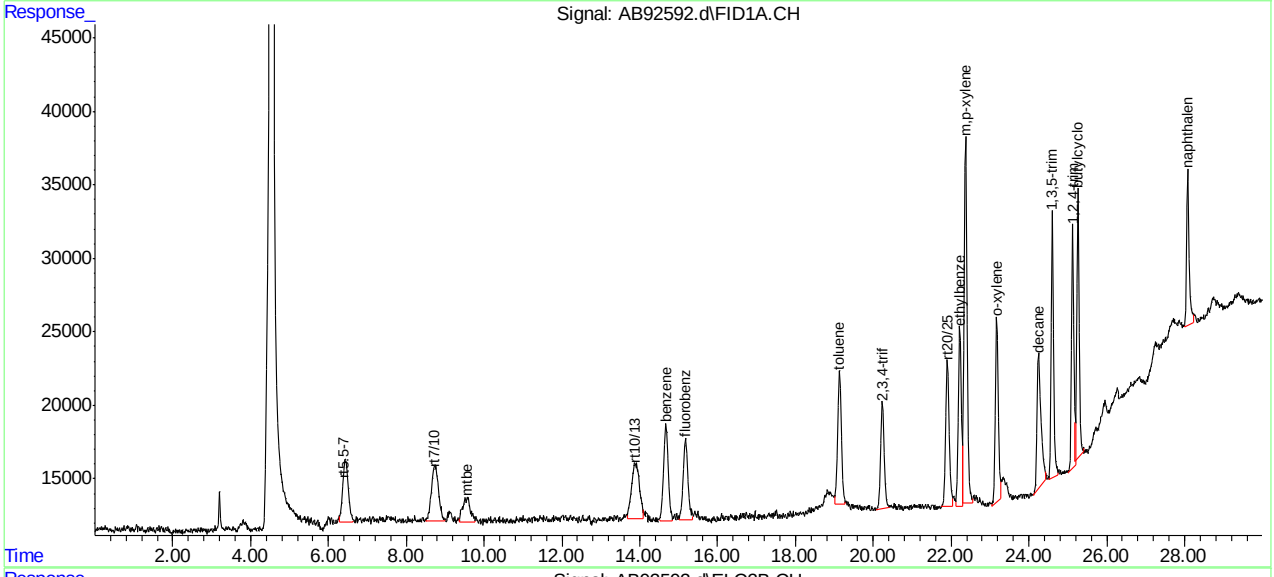
(f)=RT Delta > 1/2 Window (m)=manual int.

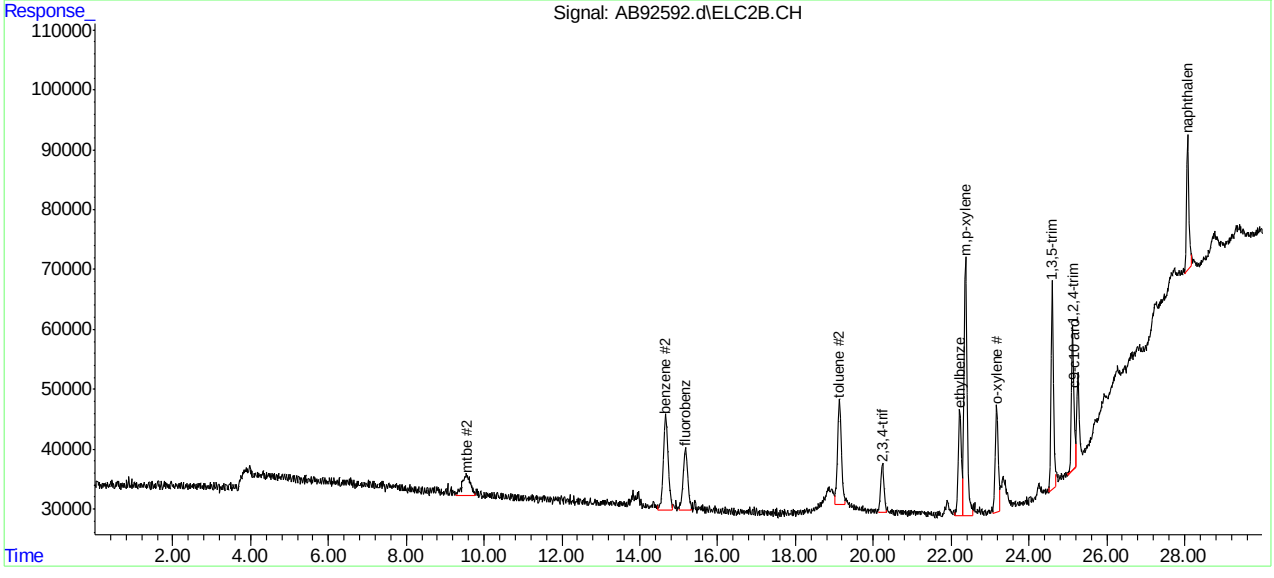
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:16 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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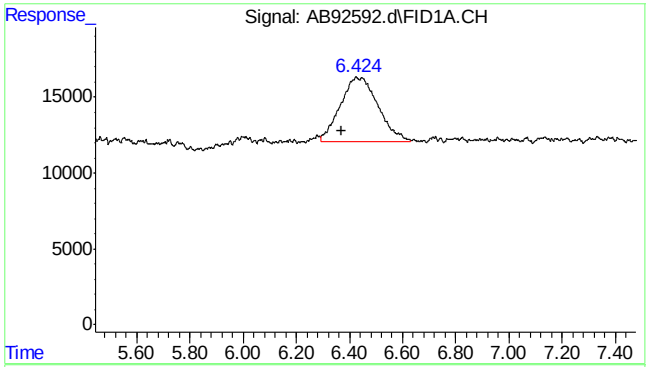
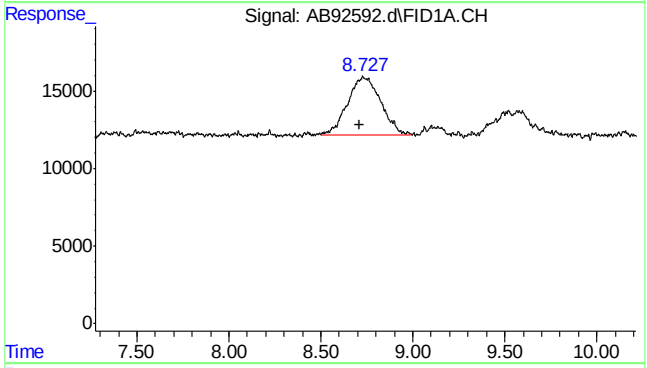


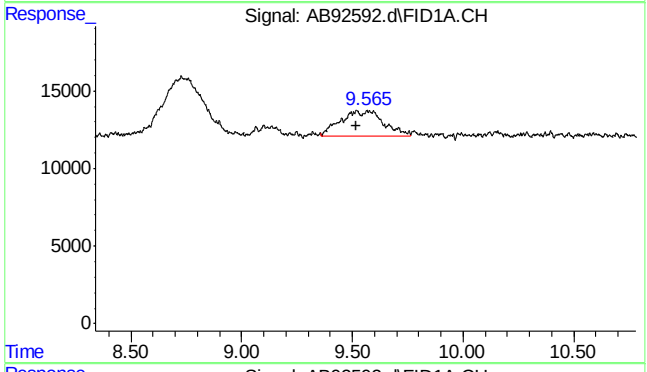
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 423417
Conc: 1.13 ppb m



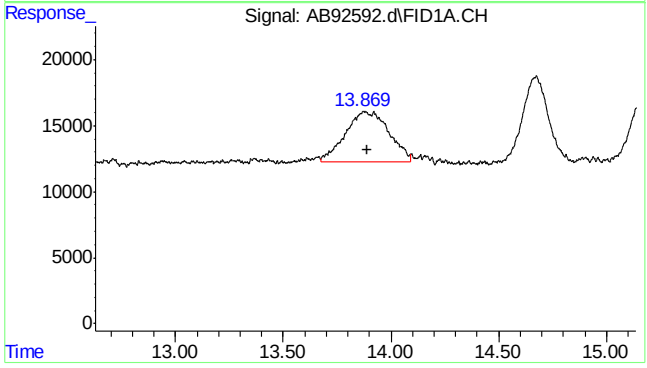
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 474249
Conc: 1.10 ppb m



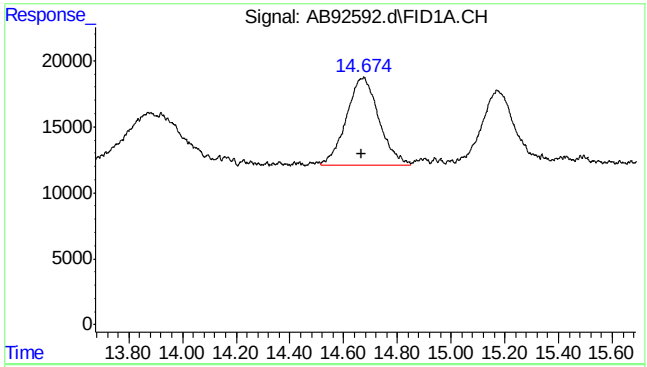
#3 mtbe

R.T.: 9.565 min
Delta R.T.: 0.047 min
Response: 222666
Conc: 1.01 ppb m



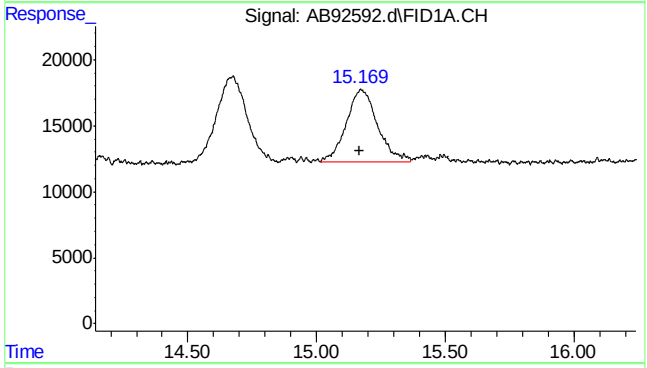
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 532157
Conc: 1.09 ppb m



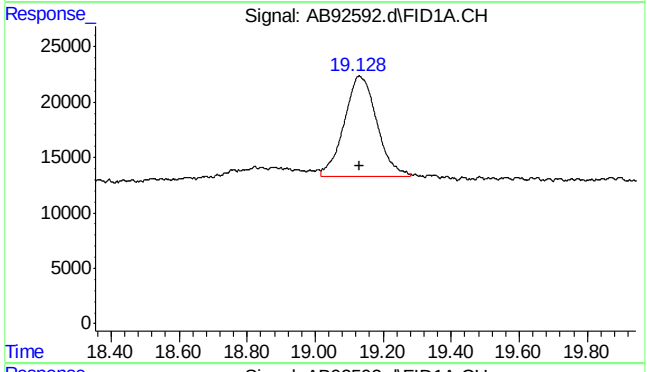
#5 benzene

R.T.: 14.674 min
Delta R.T.: 0.007 min
Response: 555388
Conc: 1.00 ppb m



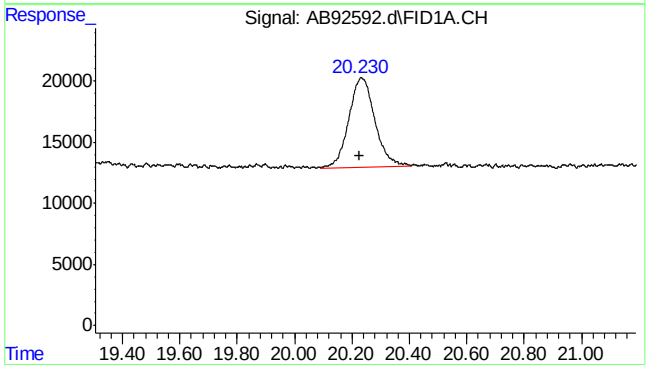
#6 fluorobenzene

R.T.: 15.169 min
Delta R.T.: 0.004 min
Response: 468381
Conc: 1.06 ppb m



#8 toluene

R.T.: 19.128 min
Delta R.T.: 0.000 min
Response: 611960
Conc: 1.00 ppb m



#9 2,3,4-trifluorotoluene

R.T.: 20.232 min
Delta R.T.: 0.004 min
Response: 457239
Conc: 1.10 ppb

7.5.9

7

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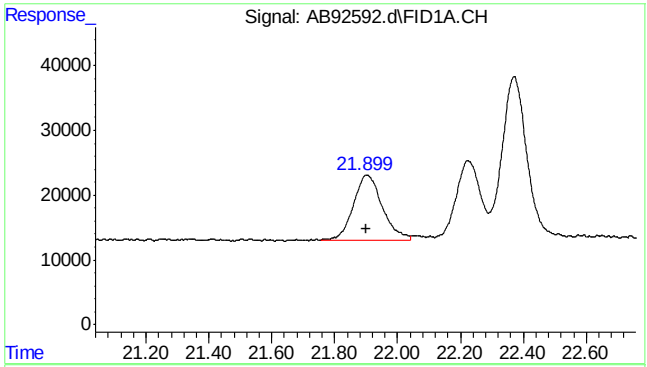
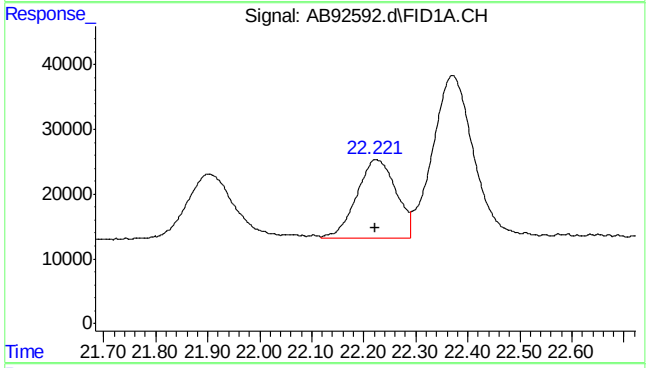


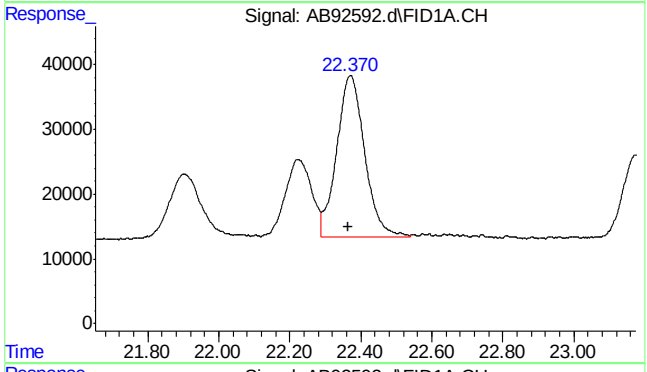
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 636900
Conc: 1.02 ppb m



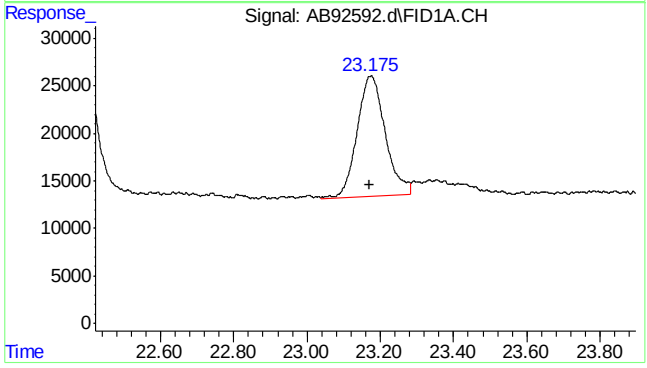
#13 ethylbenzene

R.T.: 22.221 min
Delta R.T.: -0.002 min
Response: 649345
Conc: 1.00 ppb m



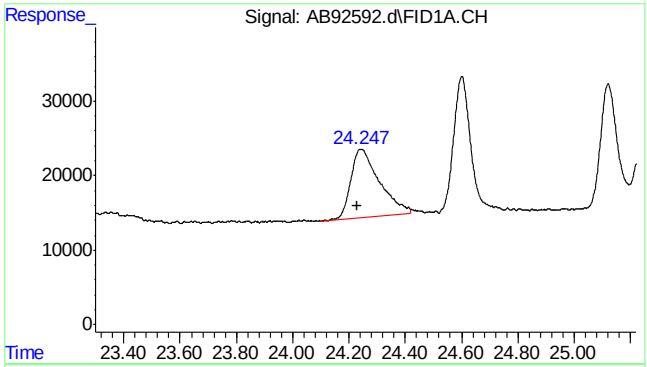
#14 m,p-xylene

R.T.: 22.370 min
Delta R.T.: 0.005 min
Response: 1369525
Conc: 2.02 ppb m



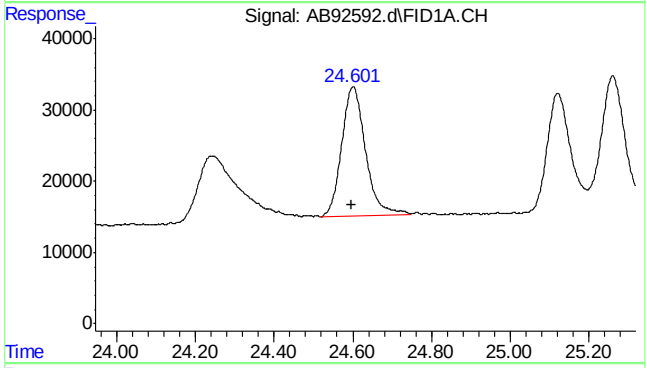
#15 o-xylene

R.T.: 23.175 min
Delta R.T.: 0.005 min
Response: 672755
Conc: 0.99 ppb m



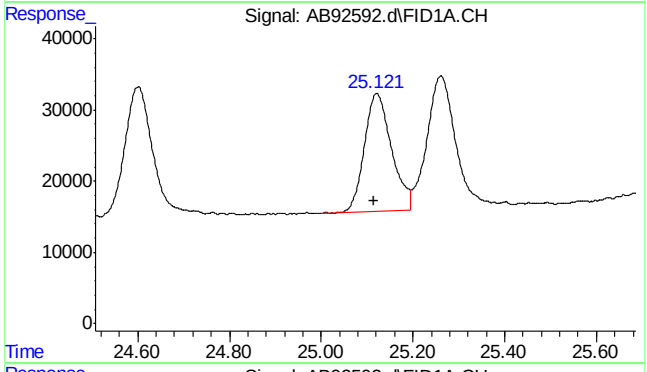
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 652274
Conc: 1.02 ppb m



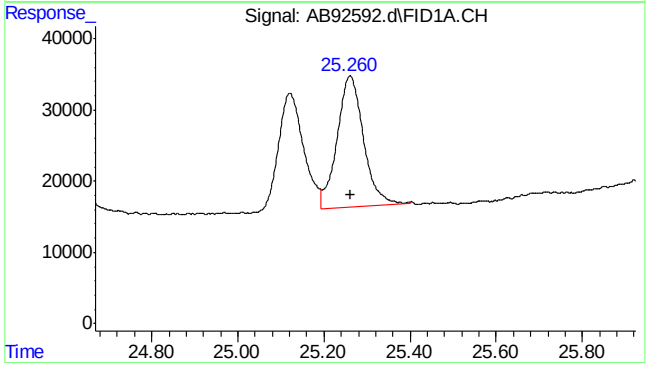
#17 1,3,5-trimethylbenzene

R.T.: 24.601 min
Delta R.T.: 0.005 min
Response: 771508
Conc: 1.06 ppb m



#18 1,2,4-trimethylbenzene

R.T.: 25.121 min
Delta R.T.: 0.006 min
Response: 686719
Conc: 1.00 ppb



#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 784280
Conc: 1.14 ppb m

7.5.9

7

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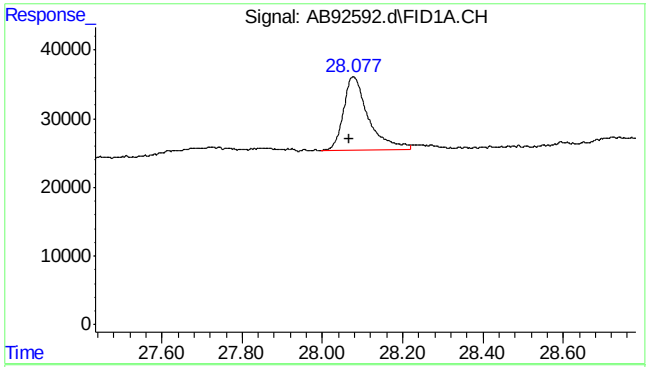
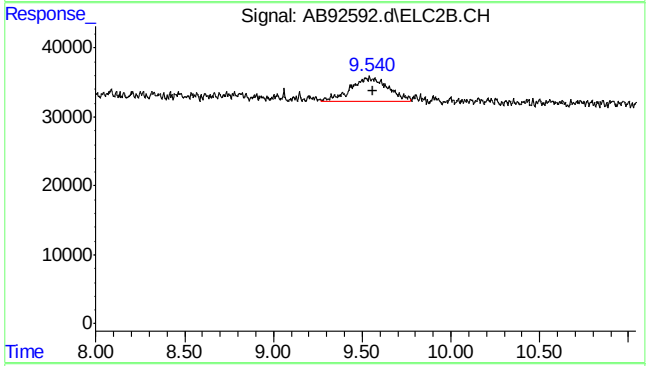


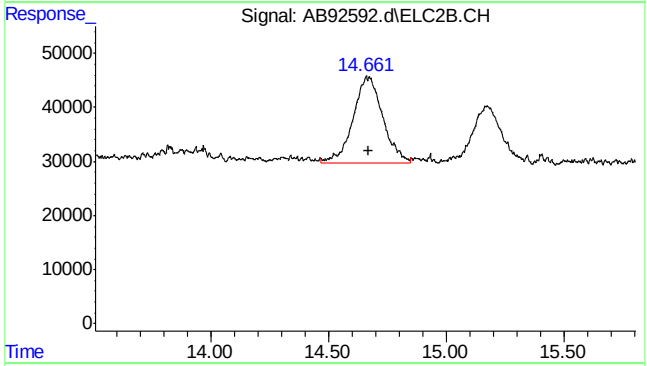
#20 naphthalene

R.T.: 28.077 min
Delta R.T.: 0.009 min
Response: 459832
Conc: 1.20 ppb m



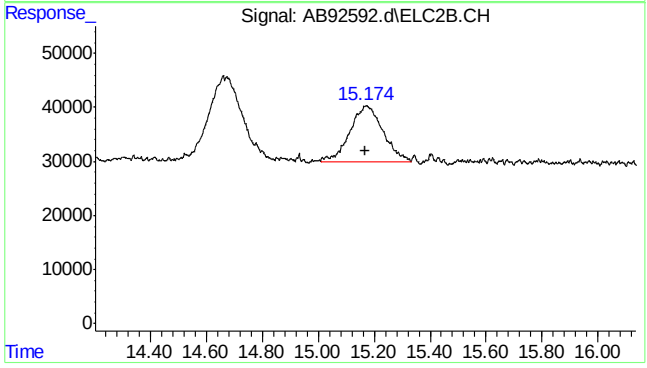
#23 mtbe #2

R.T.: 9.540 min
Delta R.T.: -0.021 min
Response: 515933
Conc: 1.00 ppb m



#24 benzene #2

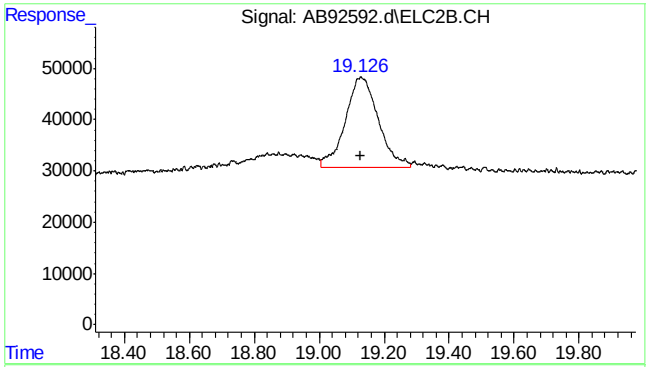
R.T.: 14.661 min
Delta R.T.: -0.007 min
Response: 1385814
Conc: 1.00 ppb m



#25 fluorobenzene #2

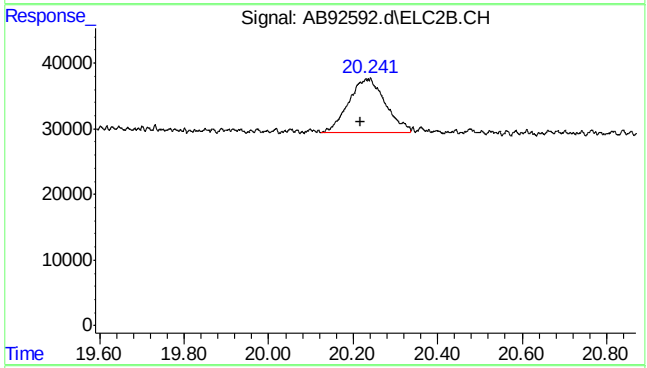
R.T.: 15.174 min
Delta R.T.: 0.007 min
Response: 871999
Conc: 1.00 ppb m

SGS ACCUTEST MC45816A



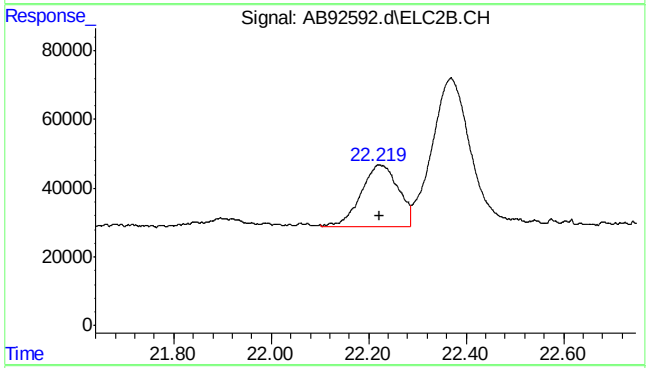
#26 toluene #2

R.T.: 19.126 min
Delta R.T.: 0.000 min
Response: 1234262
Conc: 1.00 ppb m



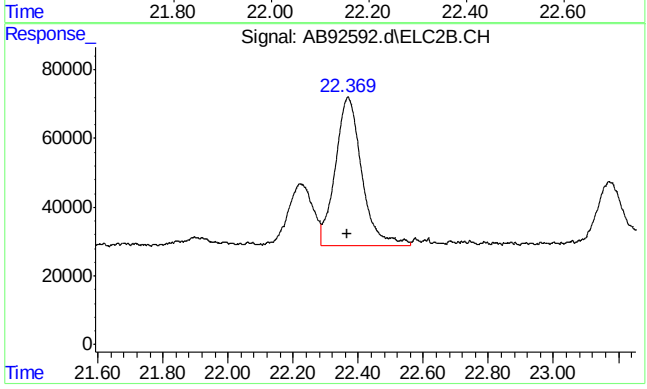
#27 2,3,4-trifluorotoluene #2

R.T.: 20.241 min
Delta R.T.: 0.023 min
Response: 500356
Conc: 1.04 ppb m



#28 ethylbenzene #2

R.T.: 22.219 min
Delta R.T.: -0.004 min
Response: 964169
Conc: 0.98 ppb m



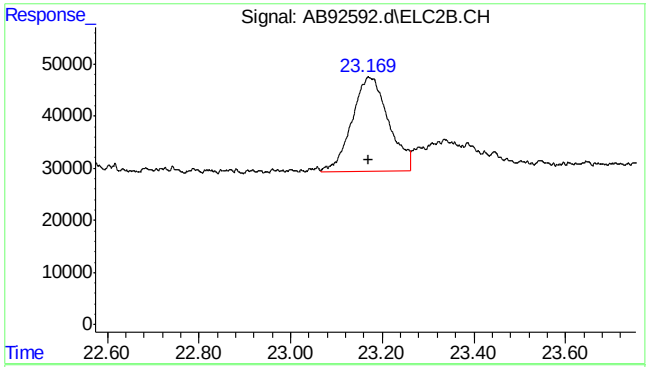
#29 m,p-xylene #2

R.T.: 22.369 min
Delta R.T.: 0.004 min
Response: 2432291
Conc: 2.00 ppb m

7.5.9

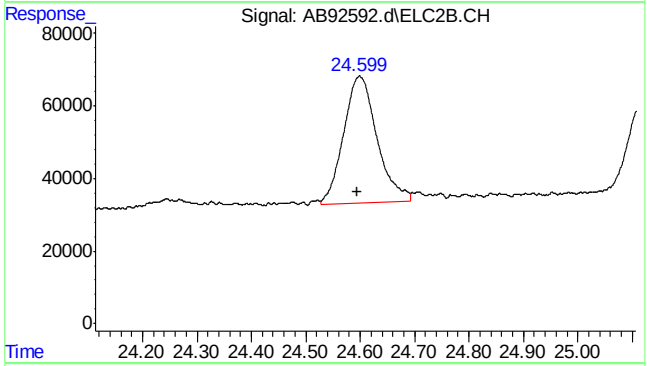
7

SGS ACCUTEST MC45816A



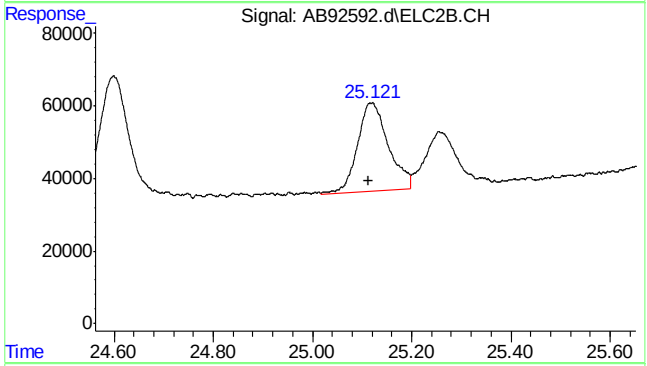
#30 o-xylene #2

R.T.: 23.170 min
Delta R.T.: 0.000 min
Response: 1005511
Conc: 1.00 ppb



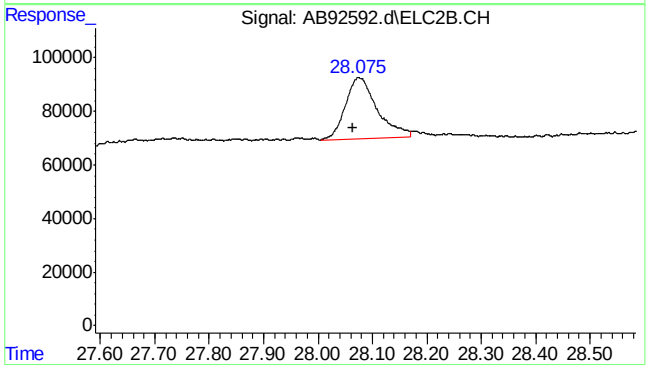
#31 1,3,5-trimethylbenzene #2

R.T.: 24.599 min
Delta R.T.: 0.004 min
Response: 1489937
Conc: 1.04 ppb



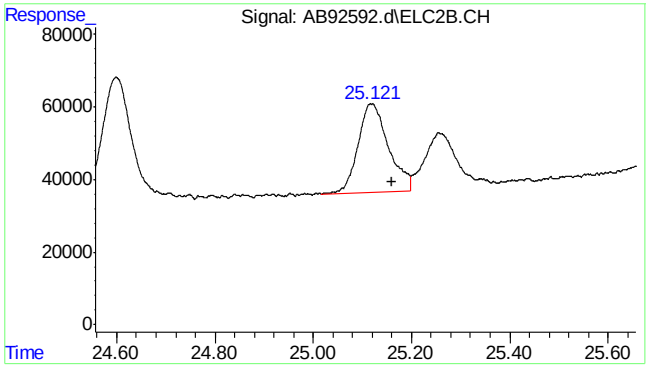
#32 1,2,4-trimethylbenzene #2

R.T.: 25.121 min
Delta R.T.: 0.008 min
Response: 1052080
Conc: 1.00 ppb m



#33 naphthalene #2

R.T.: 28.075 min
Delta R.T.: 0.011 min
Response: 922848
Conc: 1.11 ppb m



#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.160 min
Delta R.T.:	0.000 min
Response:	1056385
Conc:	1.00 ppb m

7.5.9

7

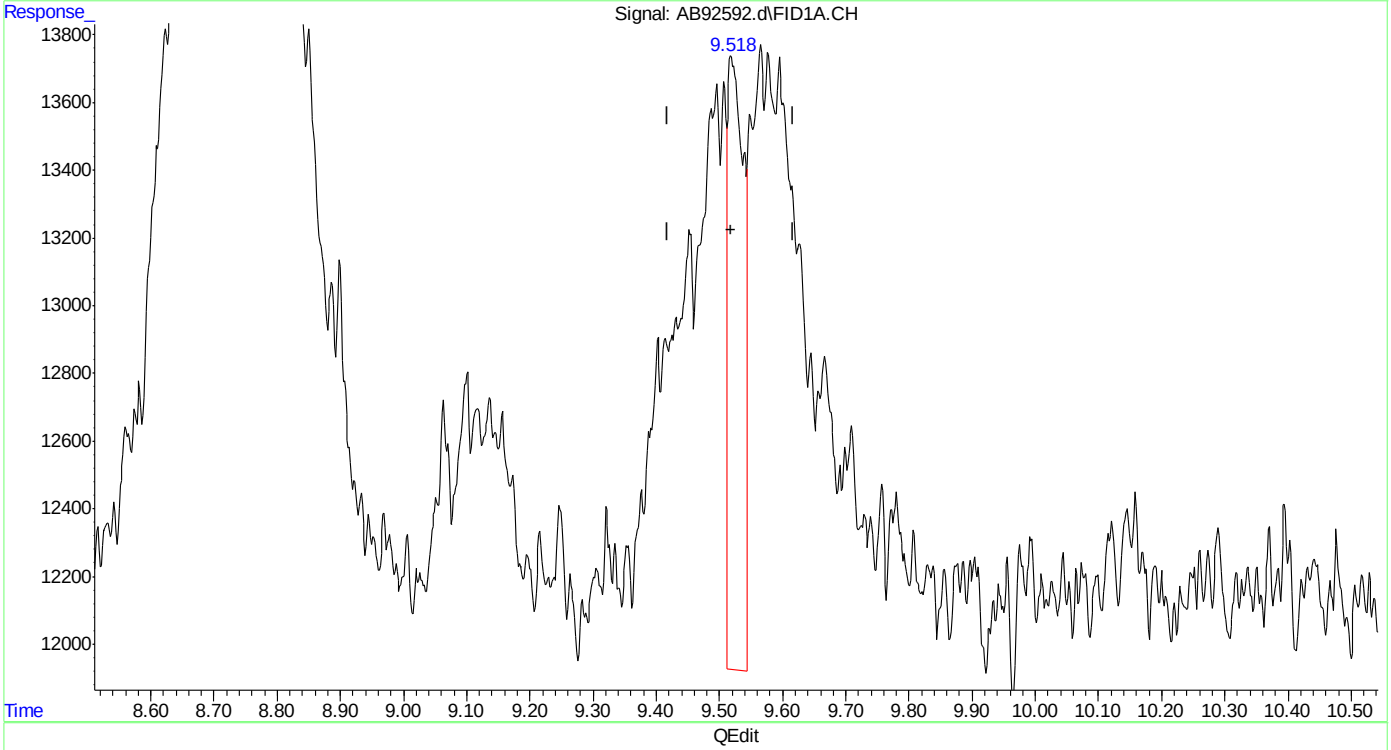
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
9.520min 0.148 ppb
response 32672

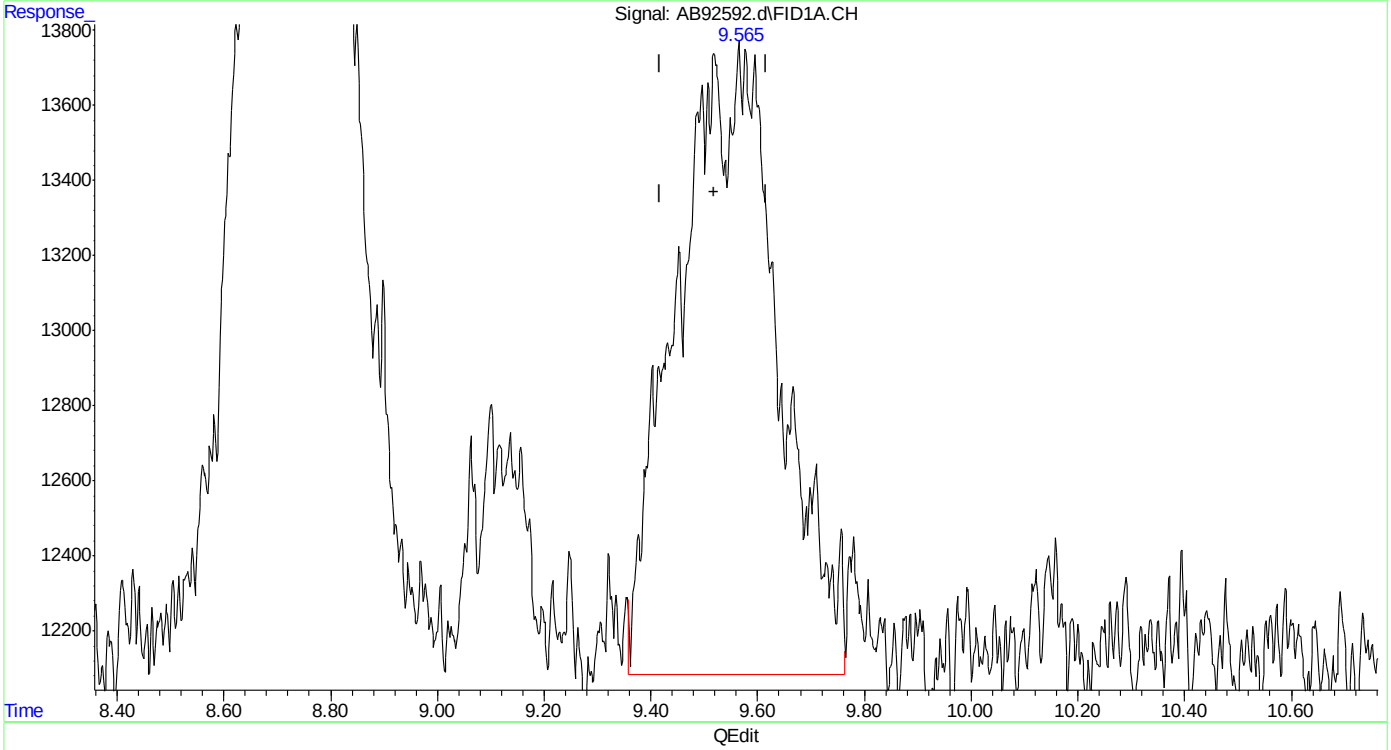
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:56:07 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
9.565min 1.009 ppb m
response 222666

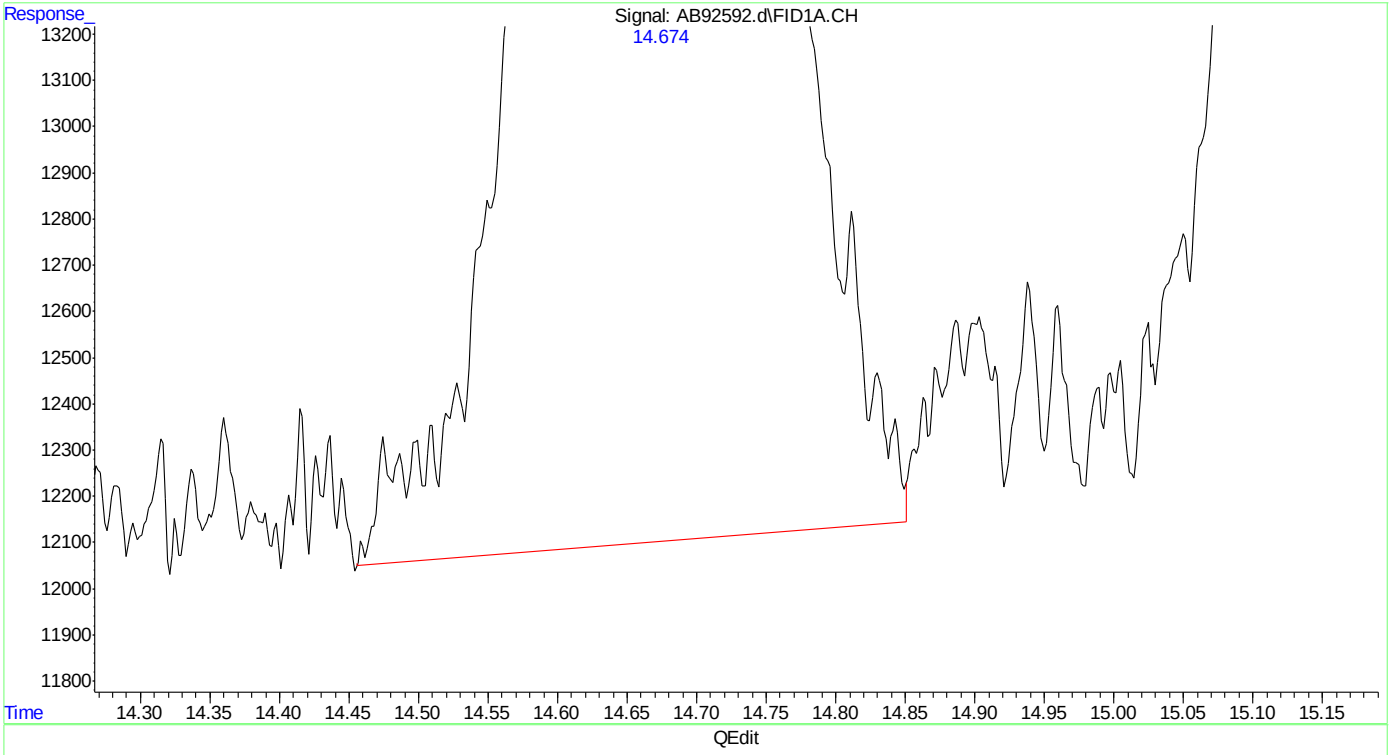
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:56:21 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(5) benzene

14.675min 1.017 ppb

response 564535

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:57:08 2016

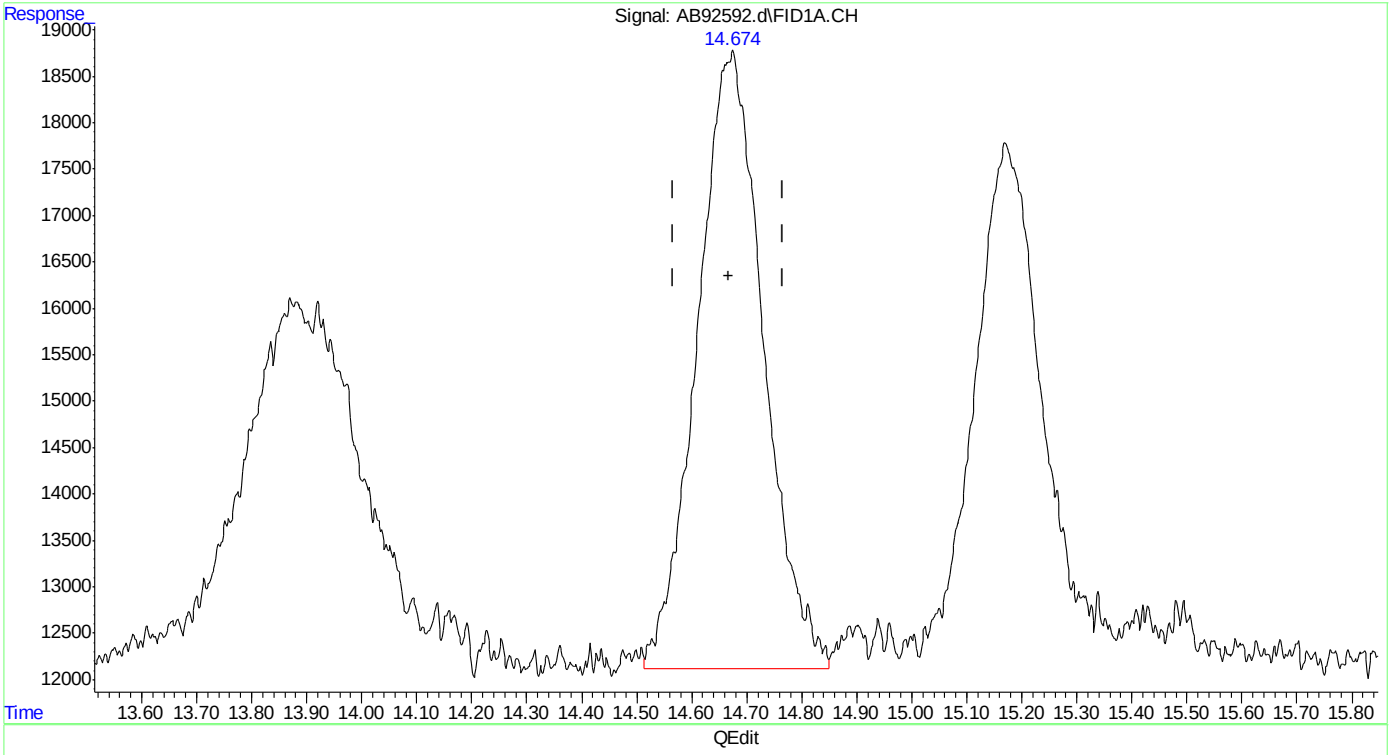
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(5) benzene
14.674min 1.000 ppb m
response 555388

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:57:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(6) fluorobenzene (s)
15.171min 1.075 ppb
response 472881

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:57:46 2016

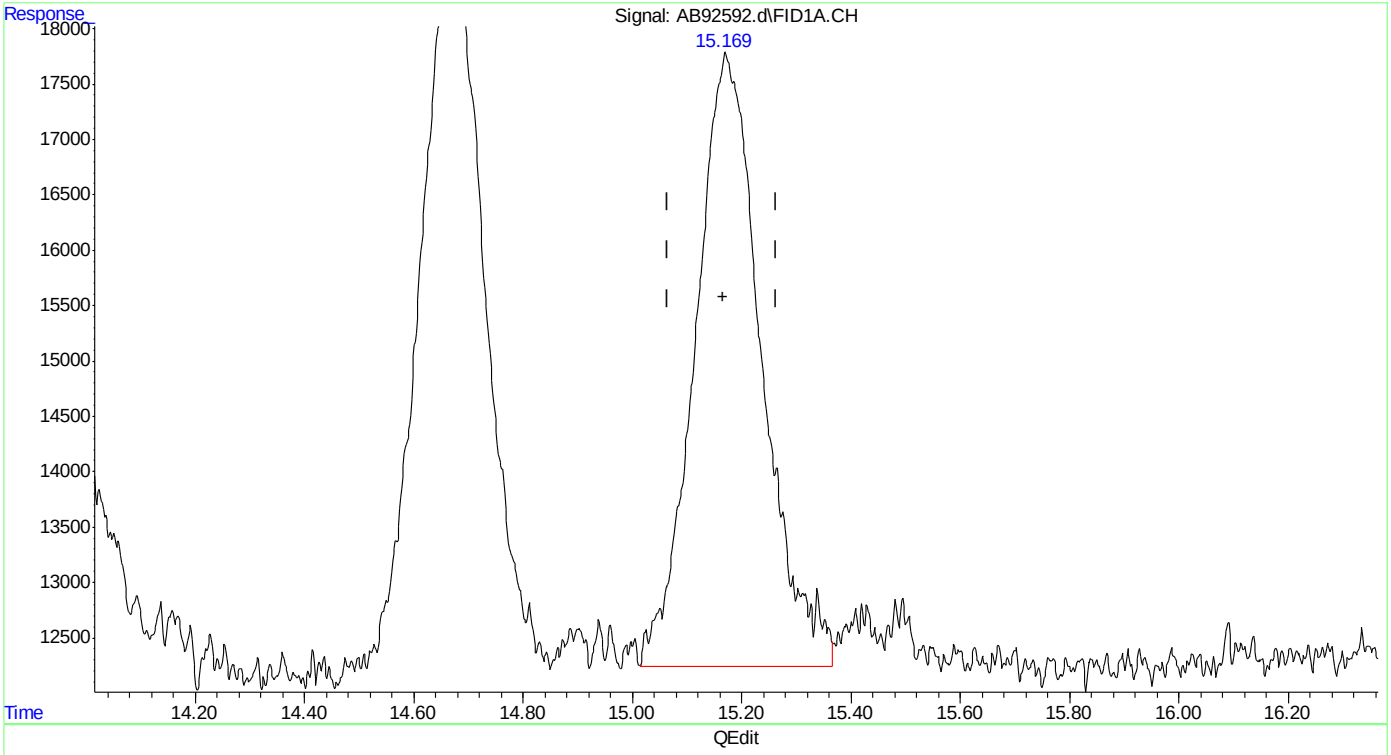
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(6) fluorobenzene (s)

15.169min 1.065 ppb m

response 468381

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:58:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(8) toluene
19.129min 0.993 ppb
response 607075

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:58:08 2016

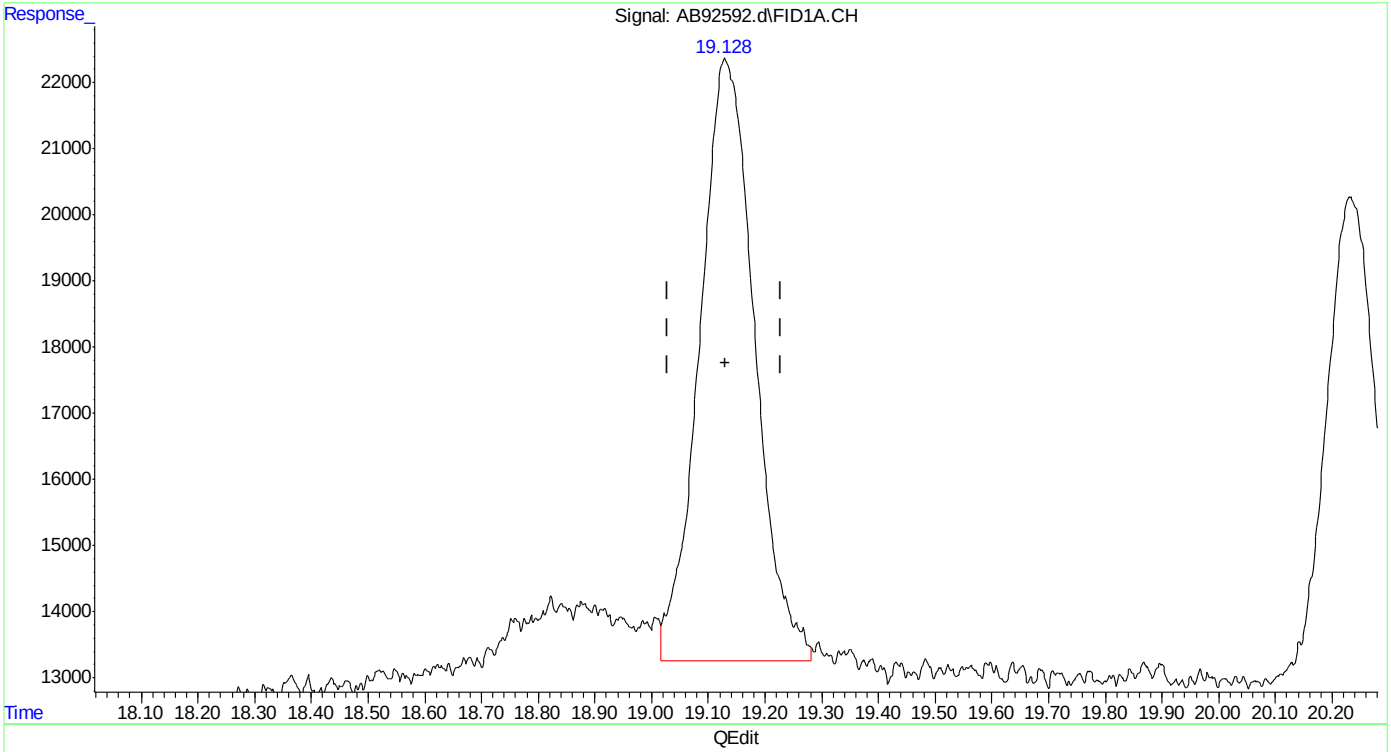
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
19.128min 1.001 ppb m
response 611960

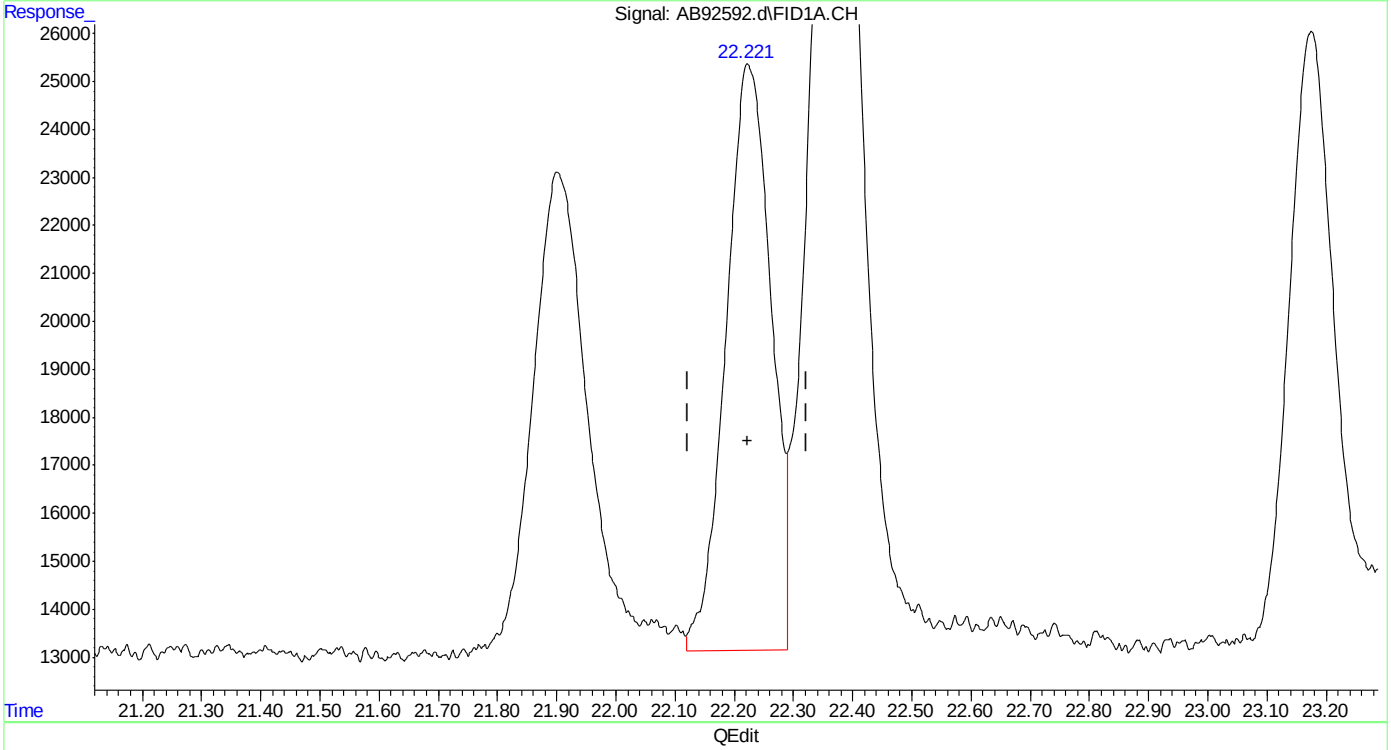
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(13) ethylbenzene
22.223min 0.993 ppb
response 644566

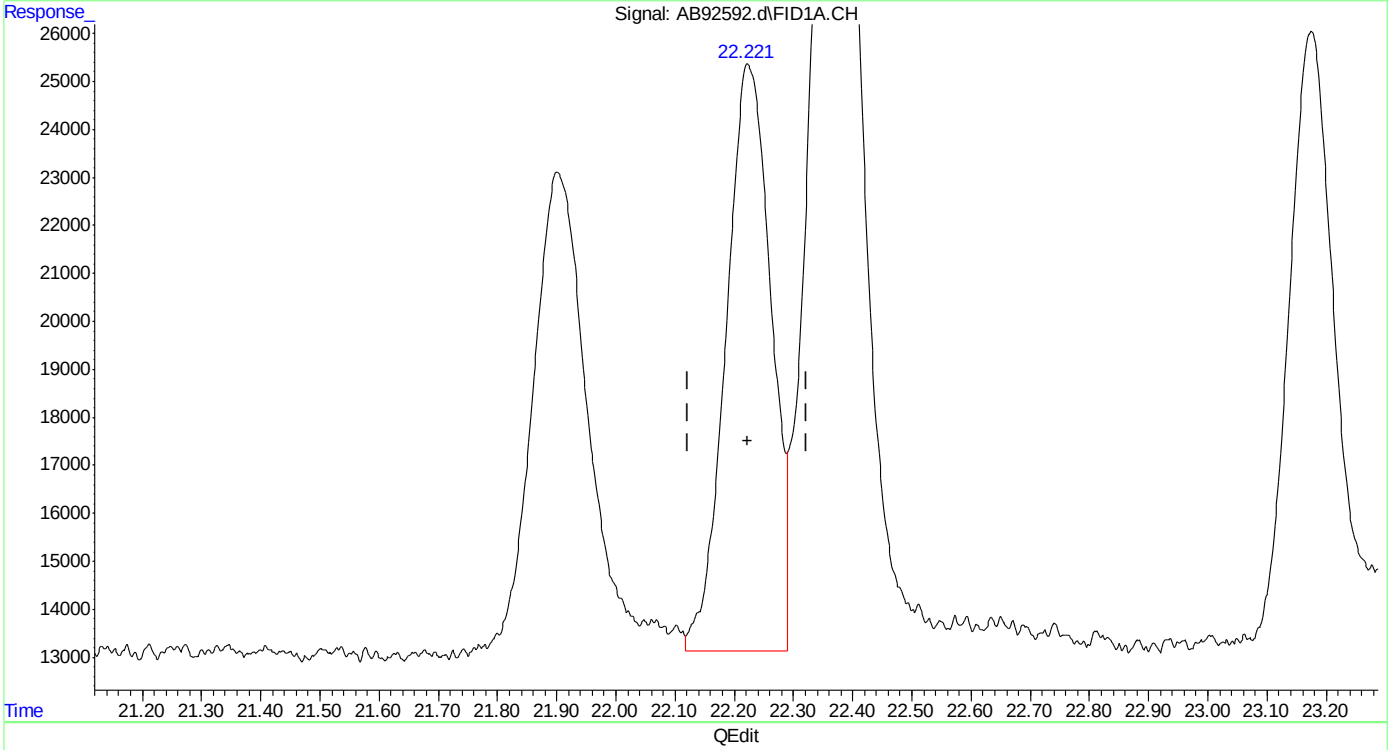
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(13) ethylbenzene
22.221min 1.001 ppb m
response 649345

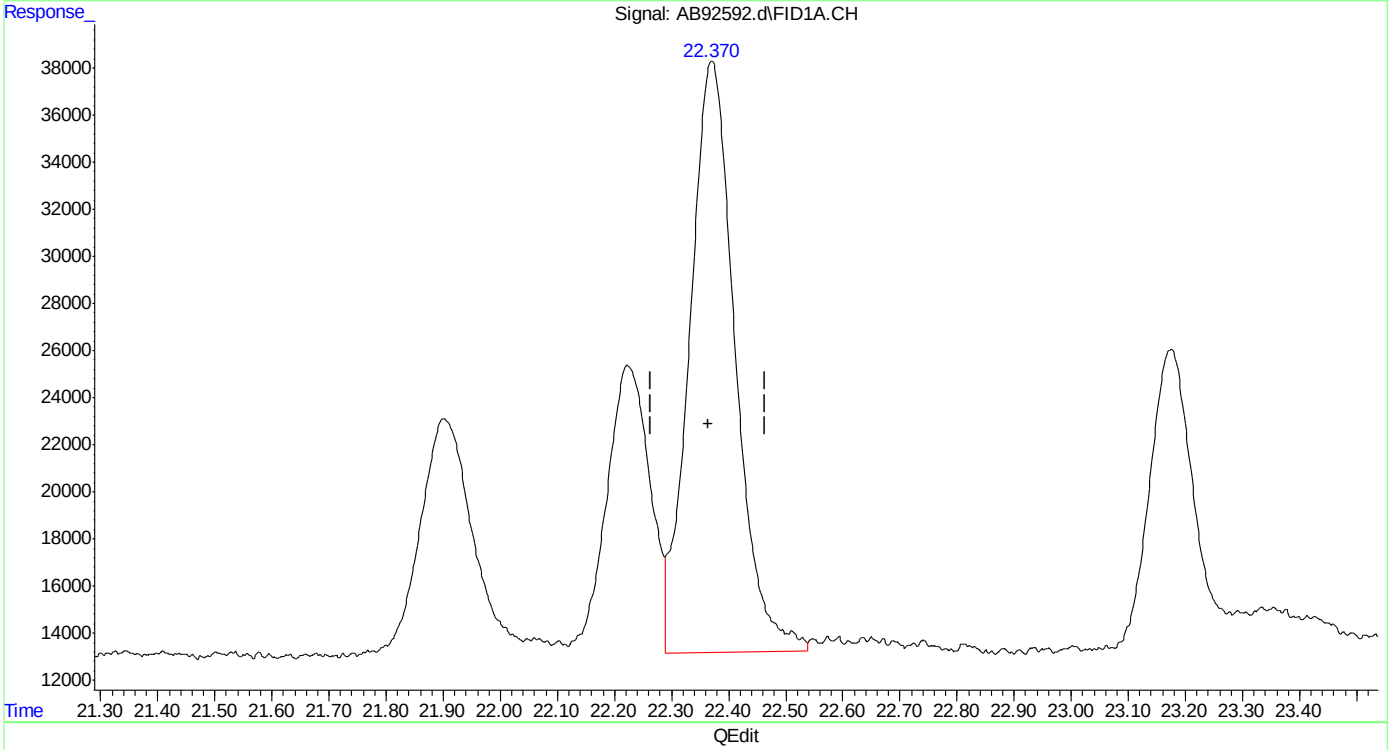
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) m,p-xylene
22.371min 2.059 ppb
response 1393341

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:23 2016

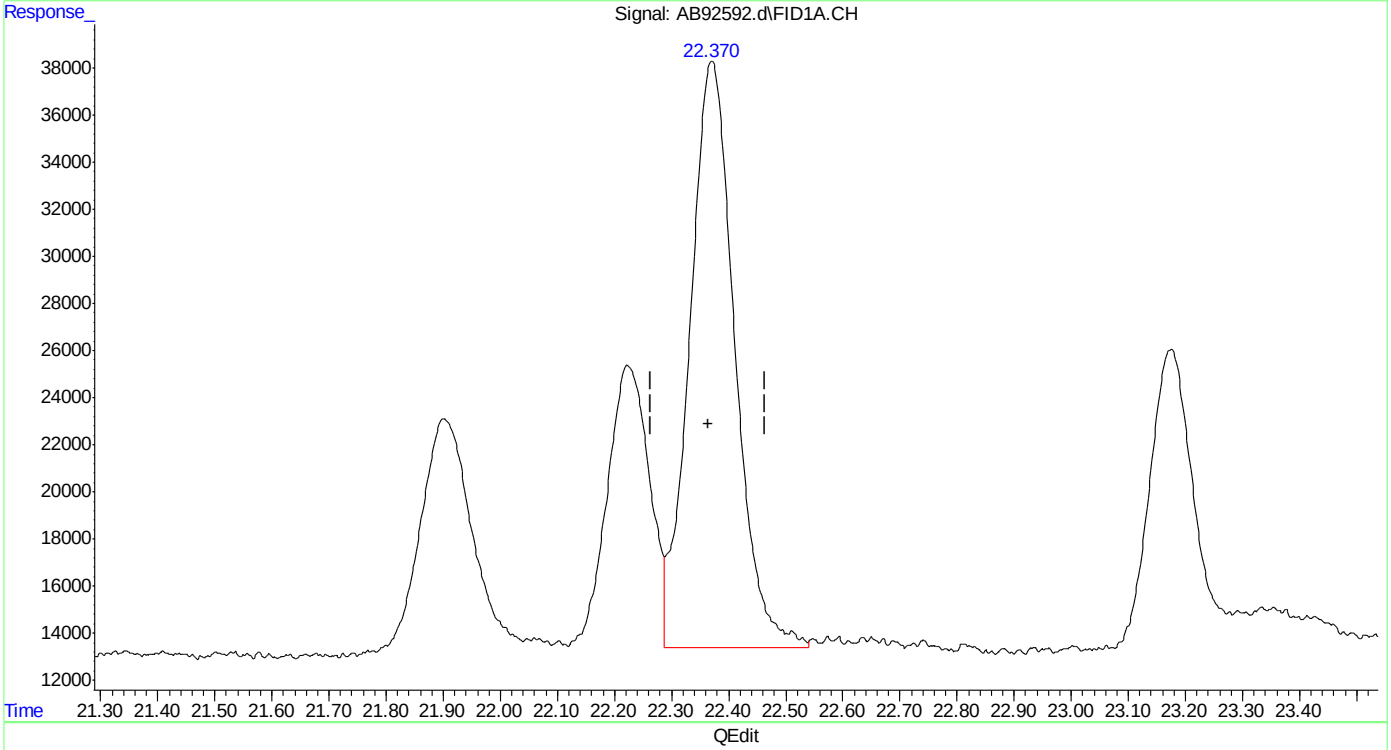
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) m,p-xylene
22.370min 2.024 ppb m
response 1369525

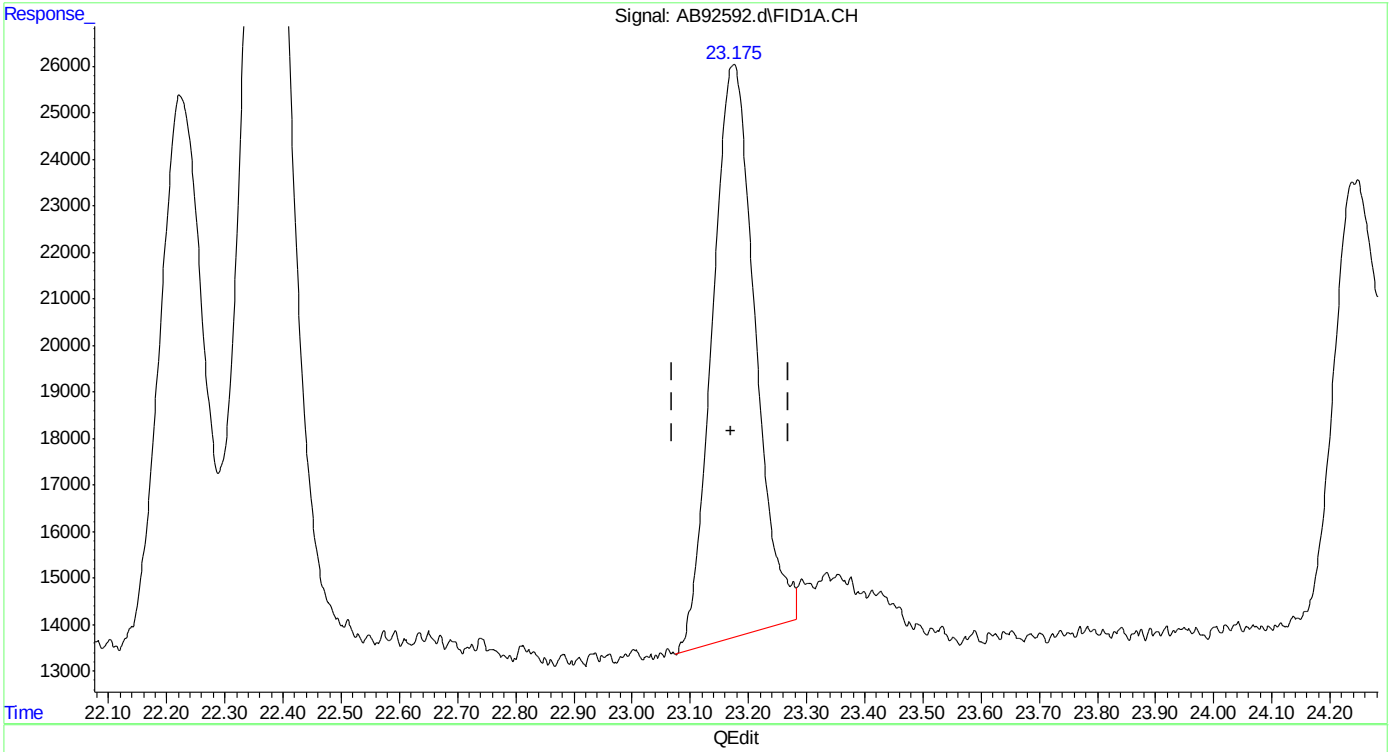
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:35 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) o-xylene
23.175min 0.928 ppb
response 630056

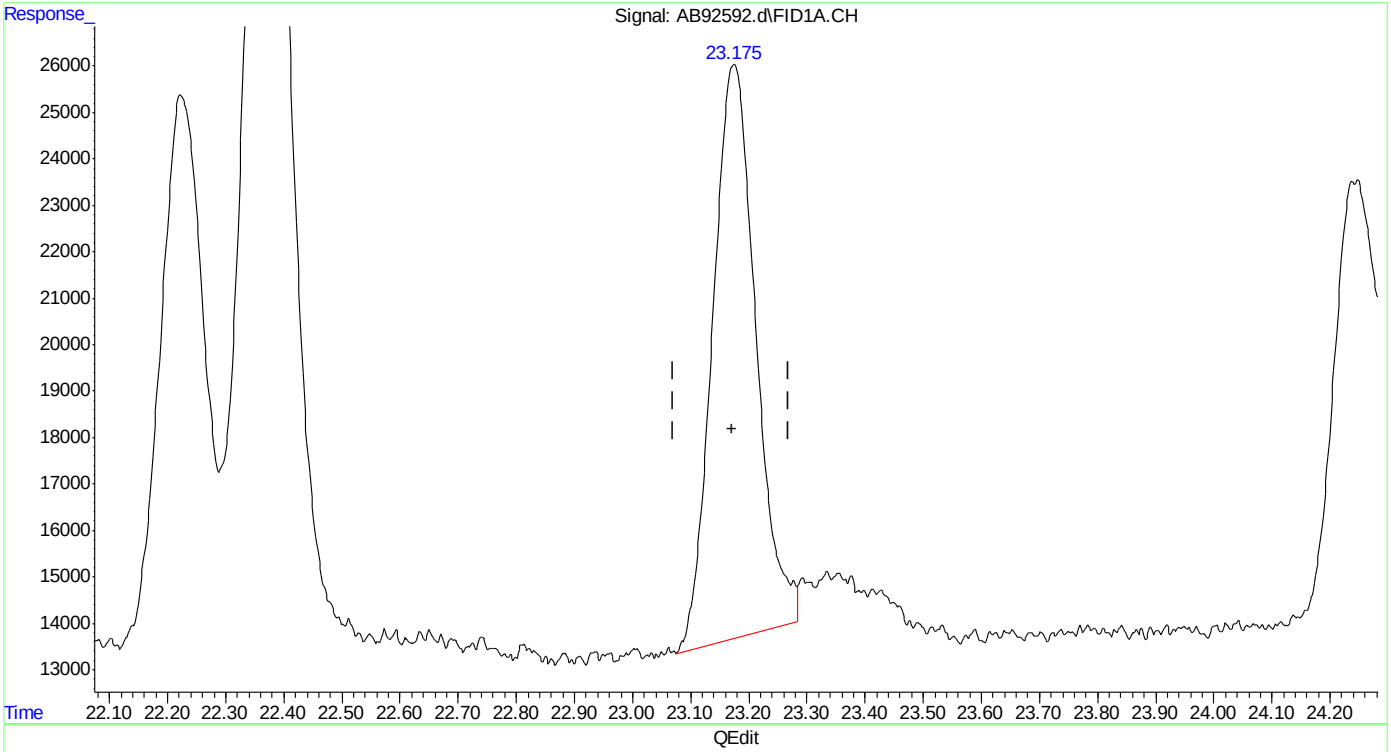
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:38 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) o-xylene
23.175min 0.940 ppb m
response 638537

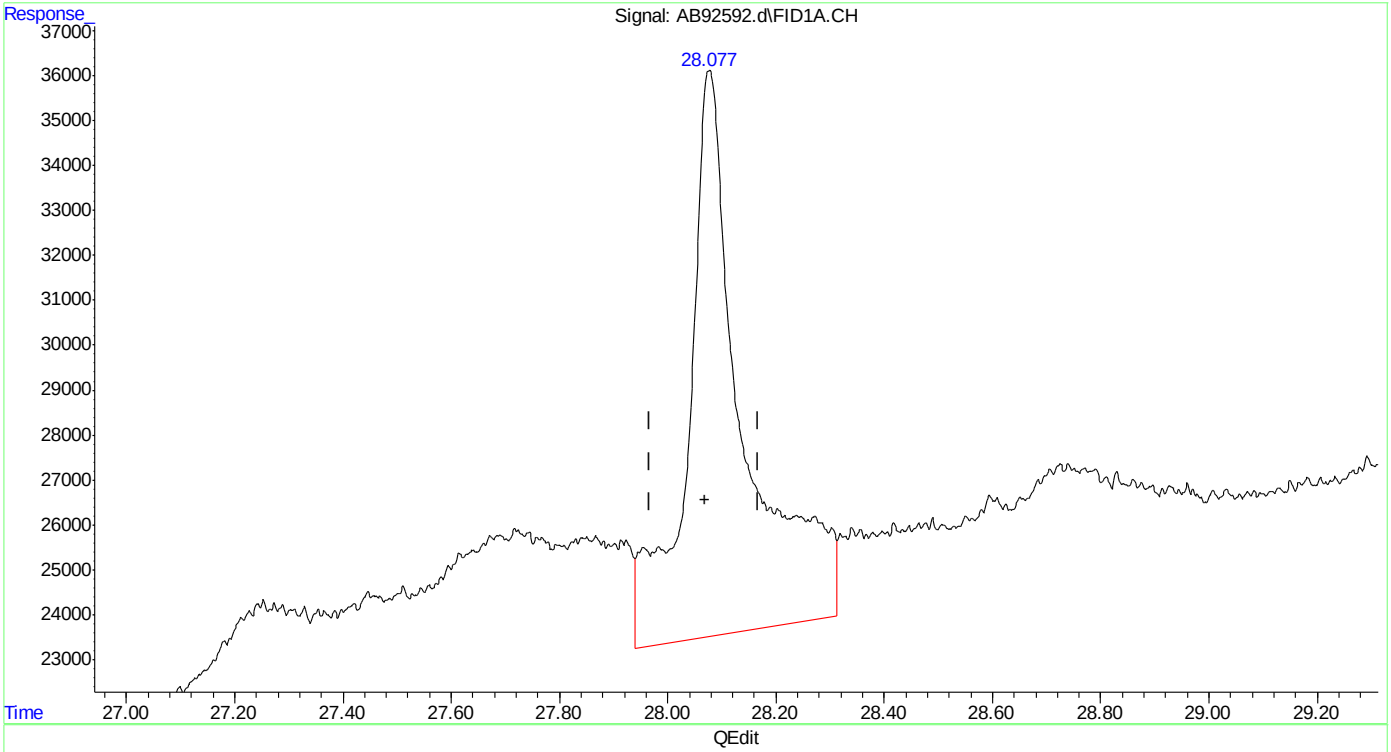
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:46 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.077min 2.363 ppb
response 908870

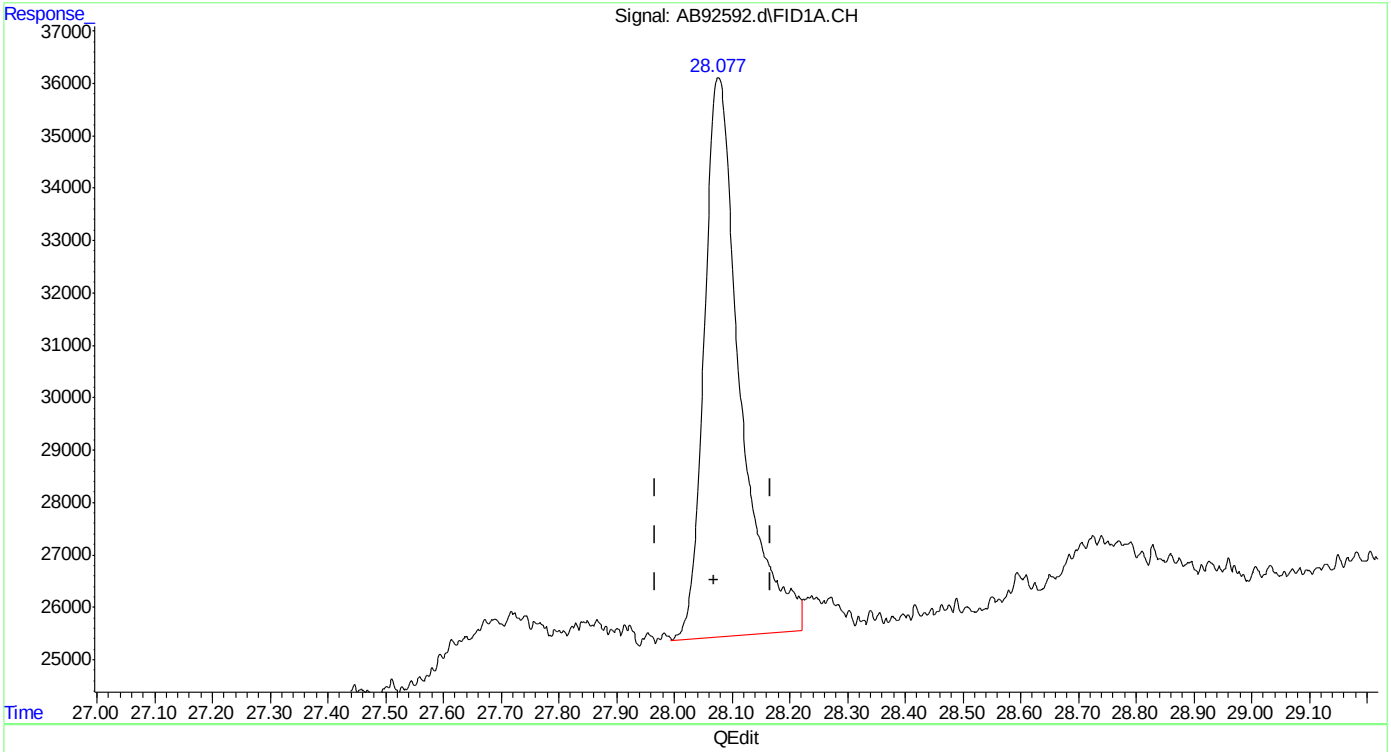
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.077min 1.207 ppb m
response 464401

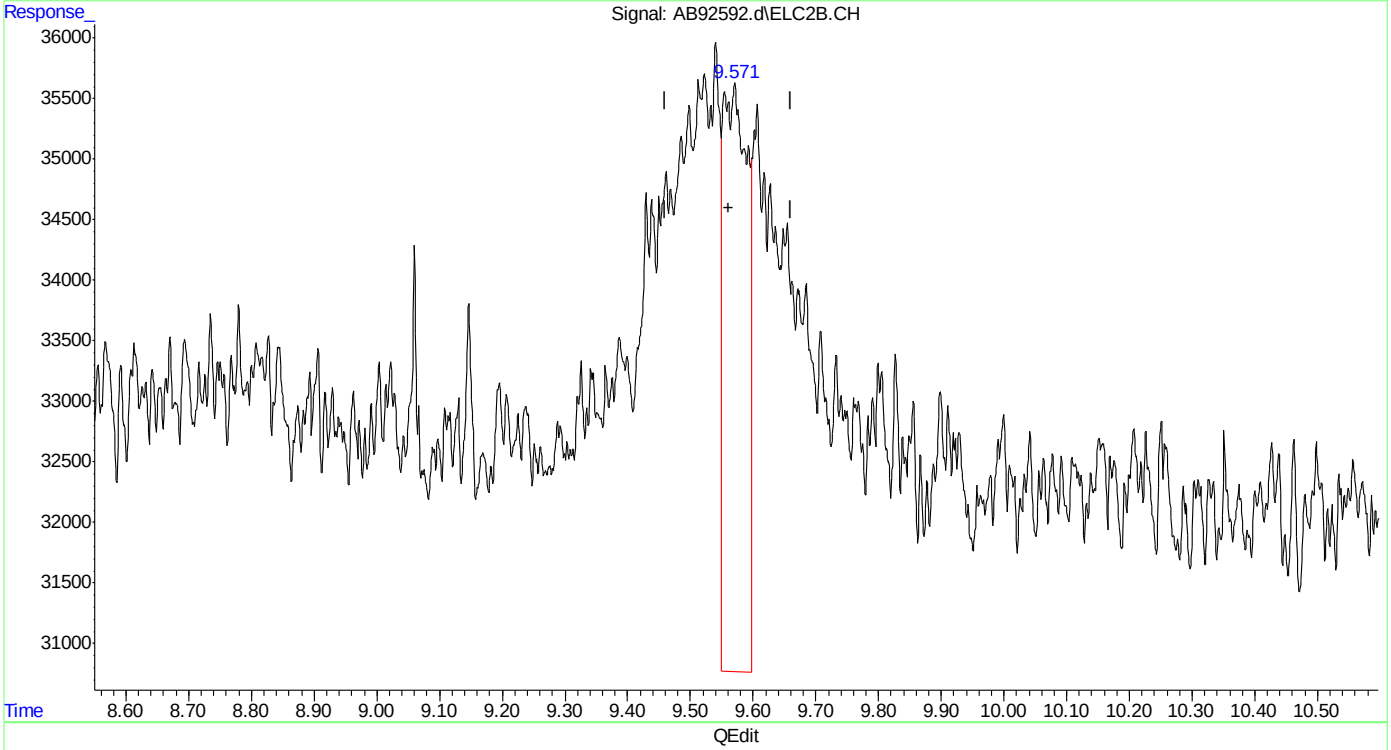
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:00:40 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.571min 0.251 ppb
response 129679

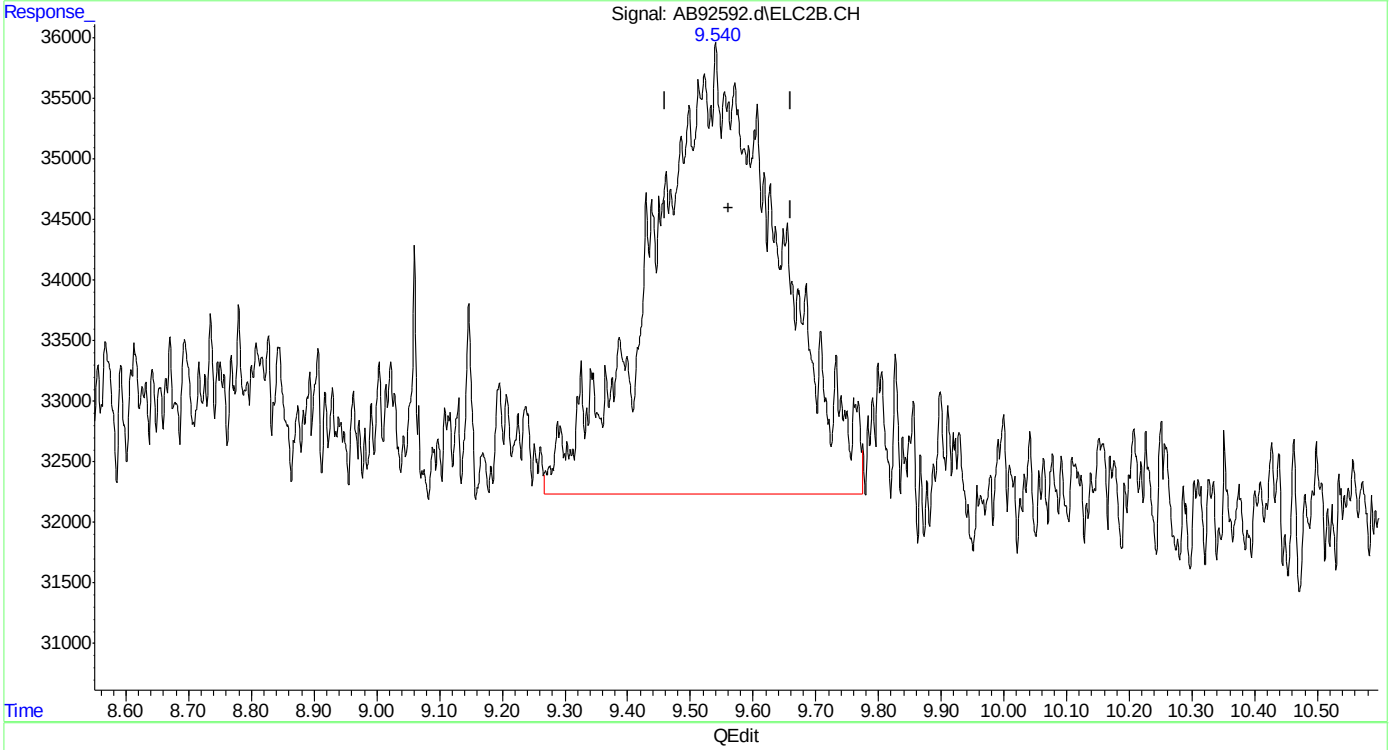
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
9.540min 1.000 ppb m
response 515933

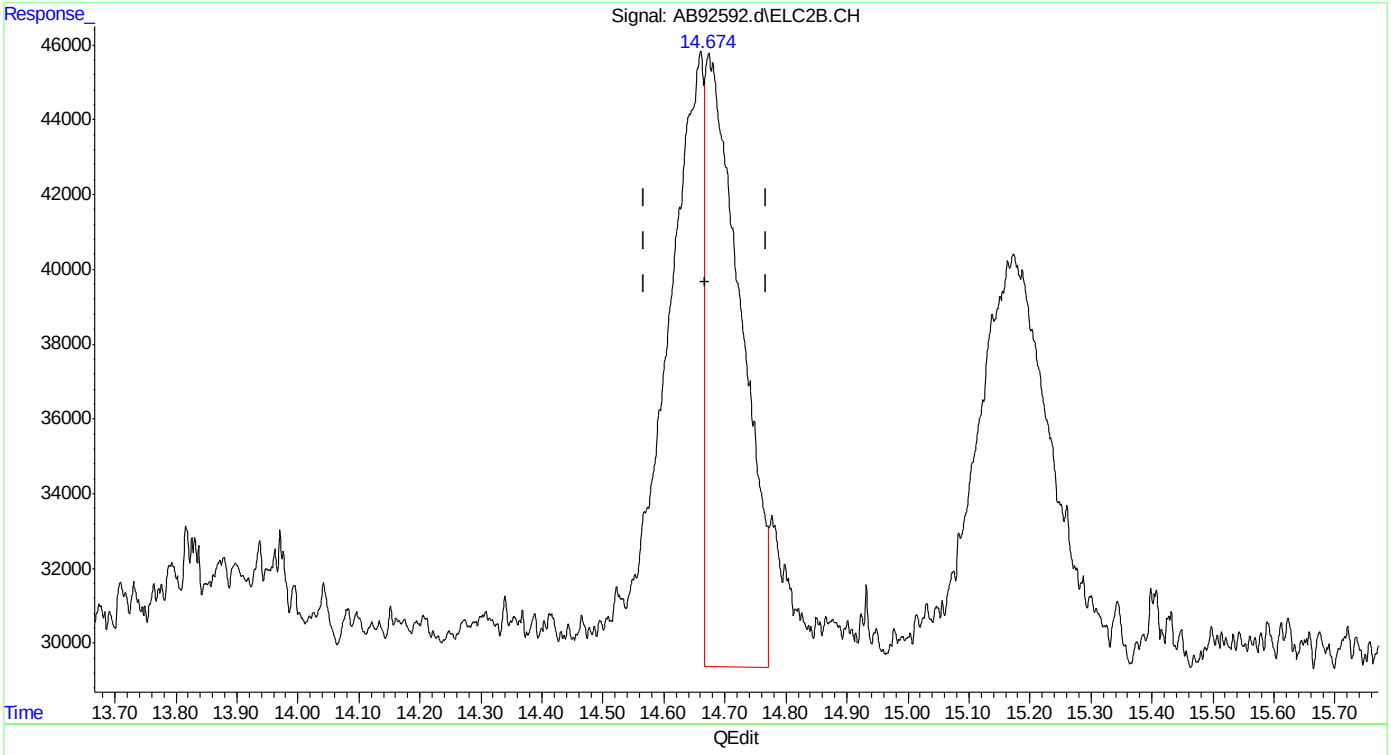
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
14.673min 0.482 ppb
response 665851

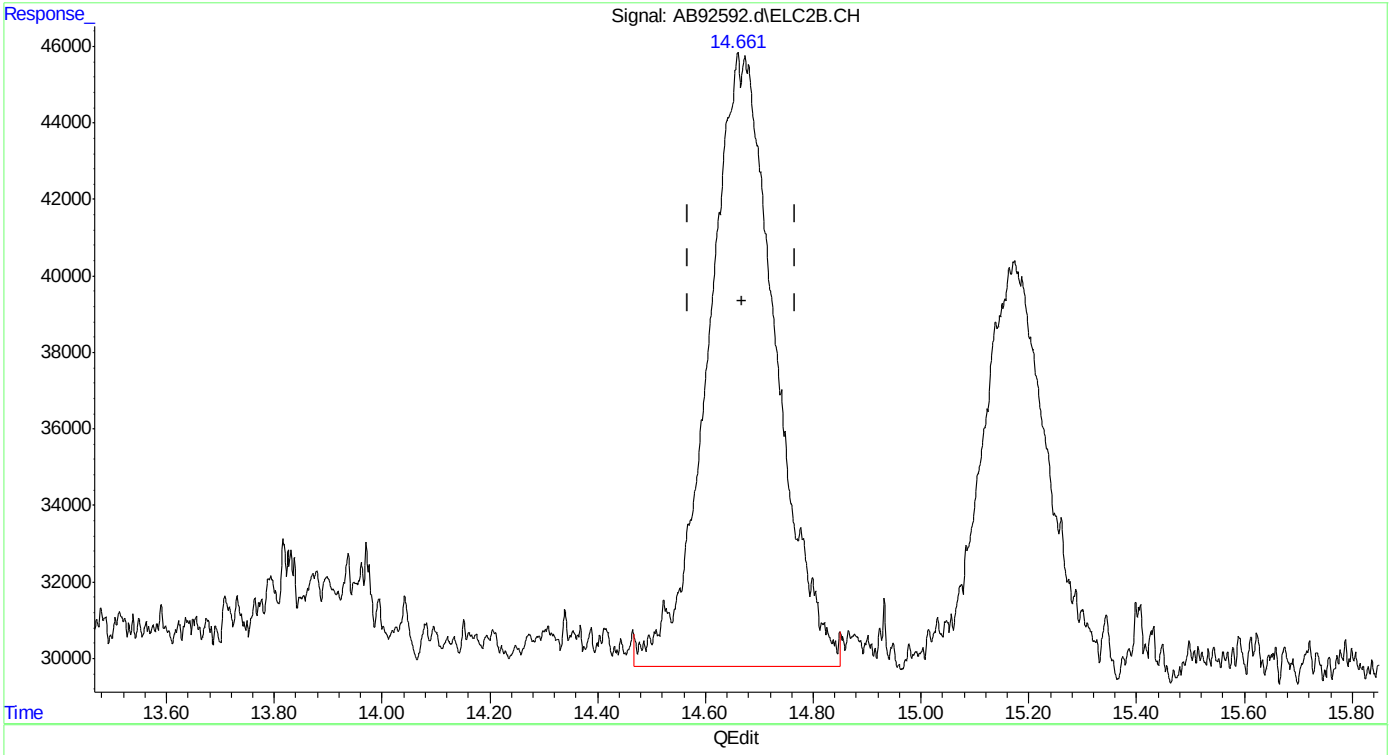
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:01:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
14.661min 1.003 ppb m
response 1385814

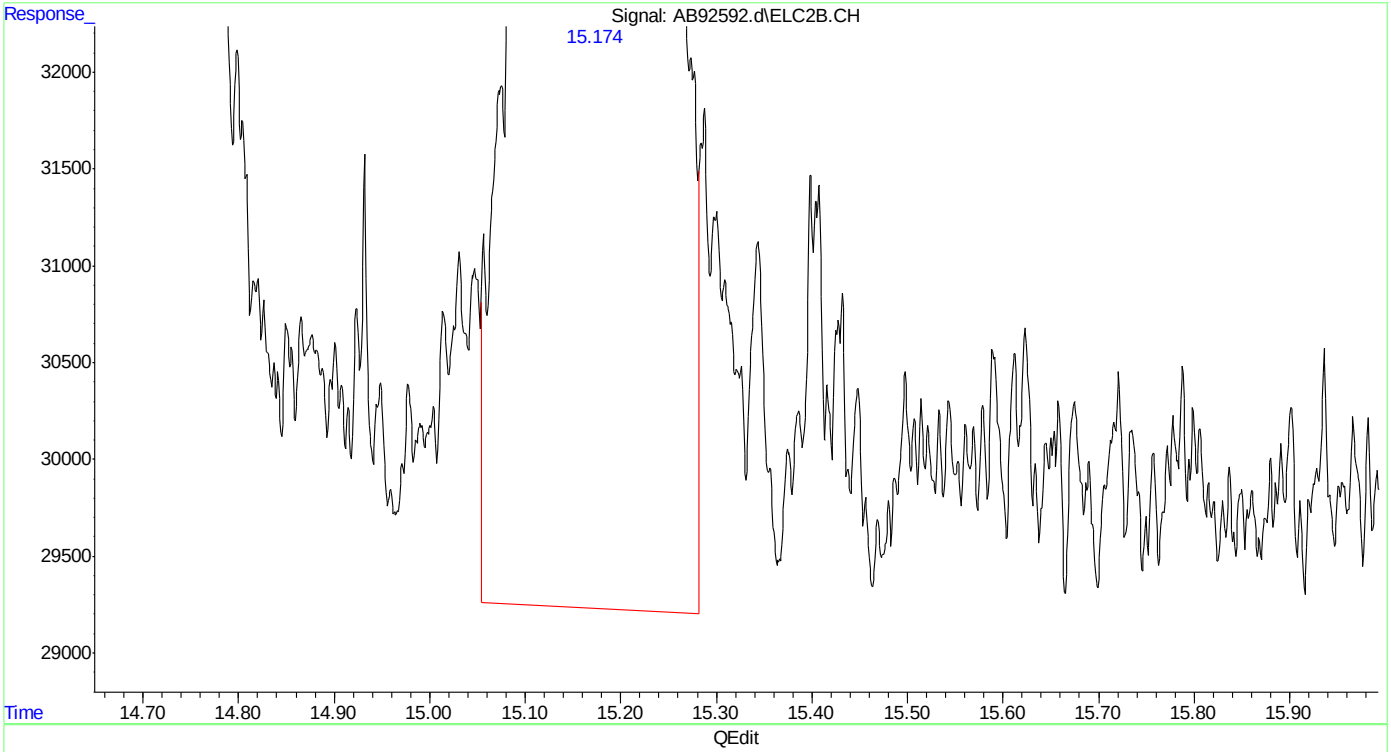
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:01:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
15.173min 1.034 ppb
response 900823

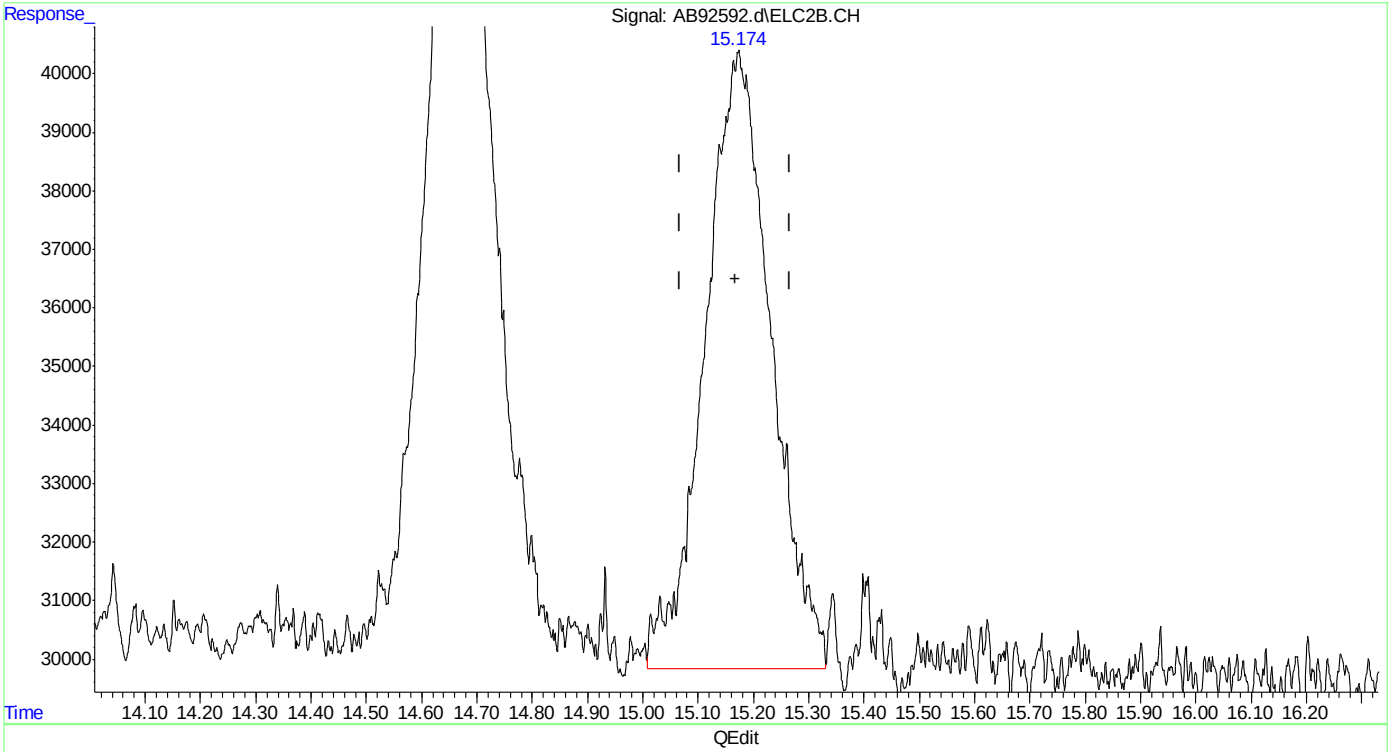
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:02:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
15.174min 1.001 ppb m
response 871999

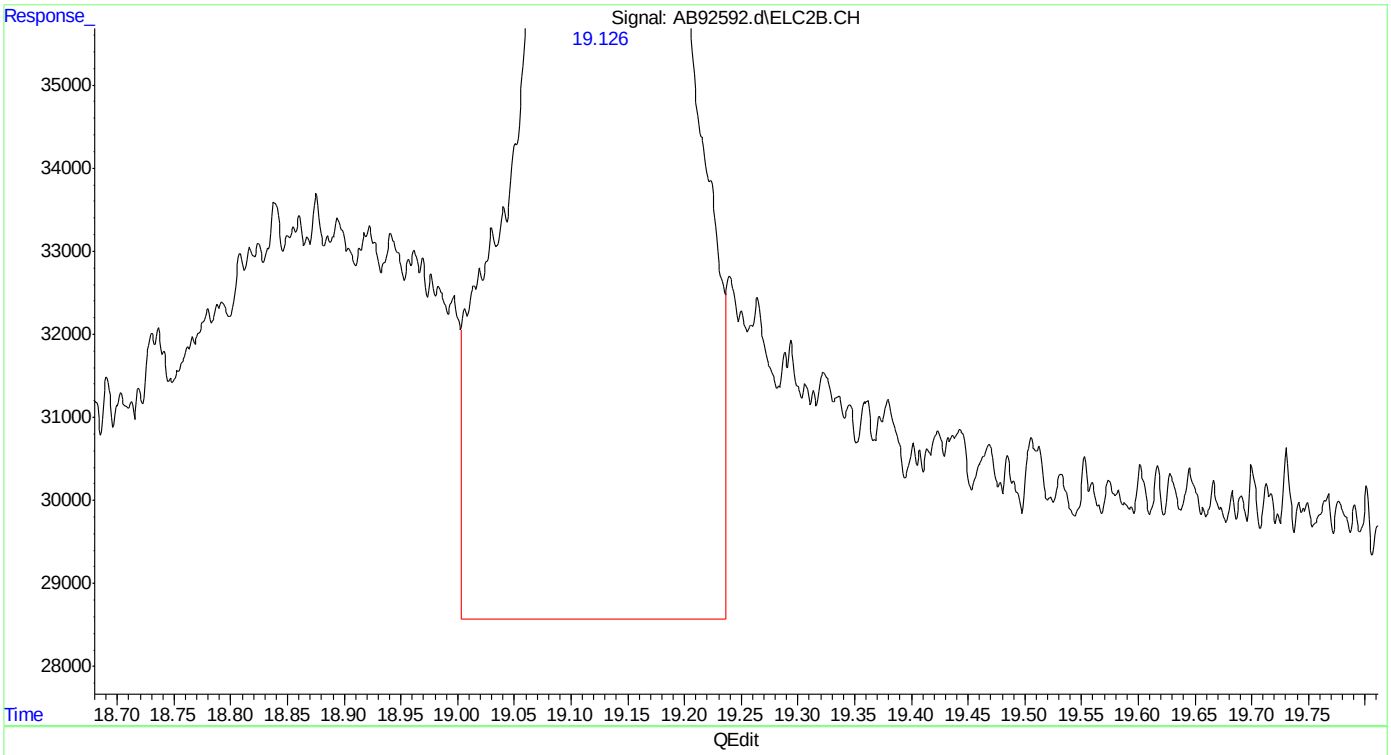
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
19.128min 1.223 ppb
response 1504312

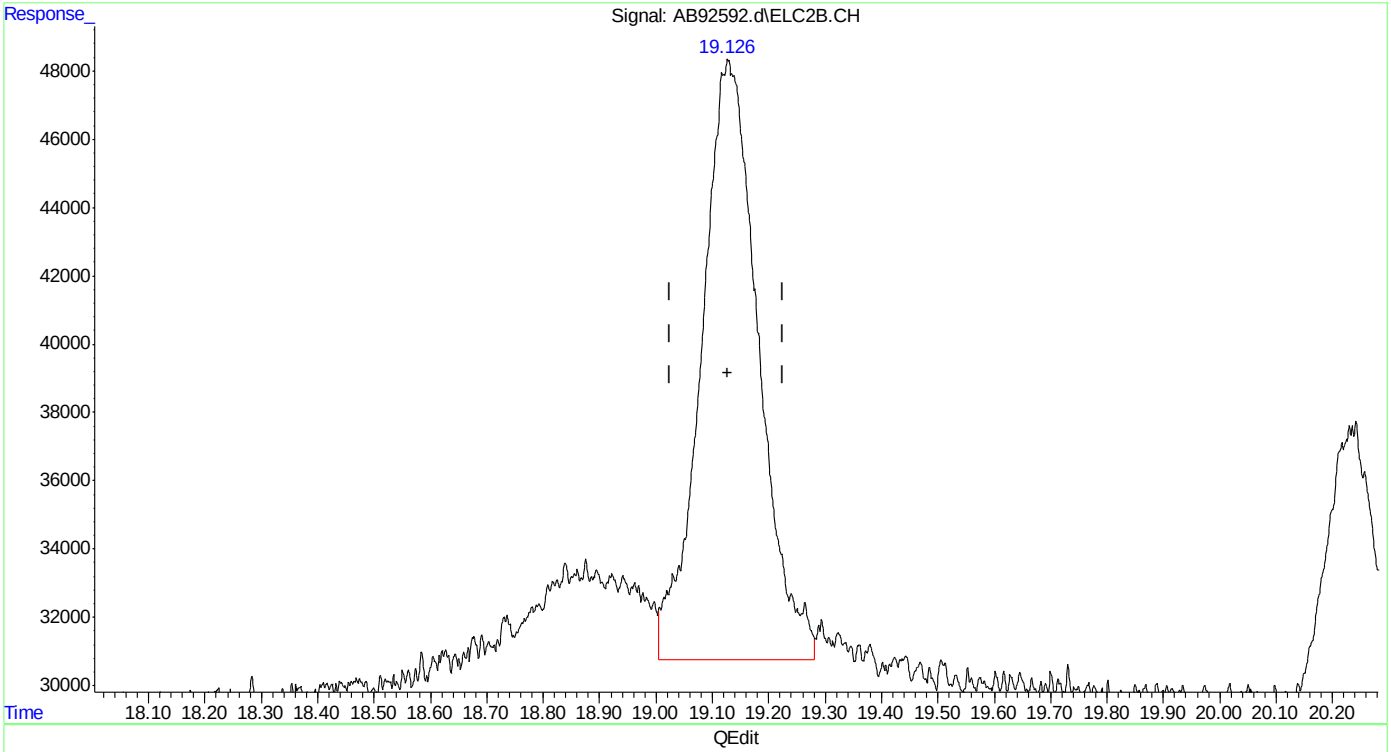
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:02:51 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
19.126min 1.003 ppb m
response 1234262

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:03:11 2016 Page: 1

SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

(27) 2,3,4-trifluorotoluene #2 (s)

20.242min 1.201 ppb

response 576599

(+) = Expected Retention Time

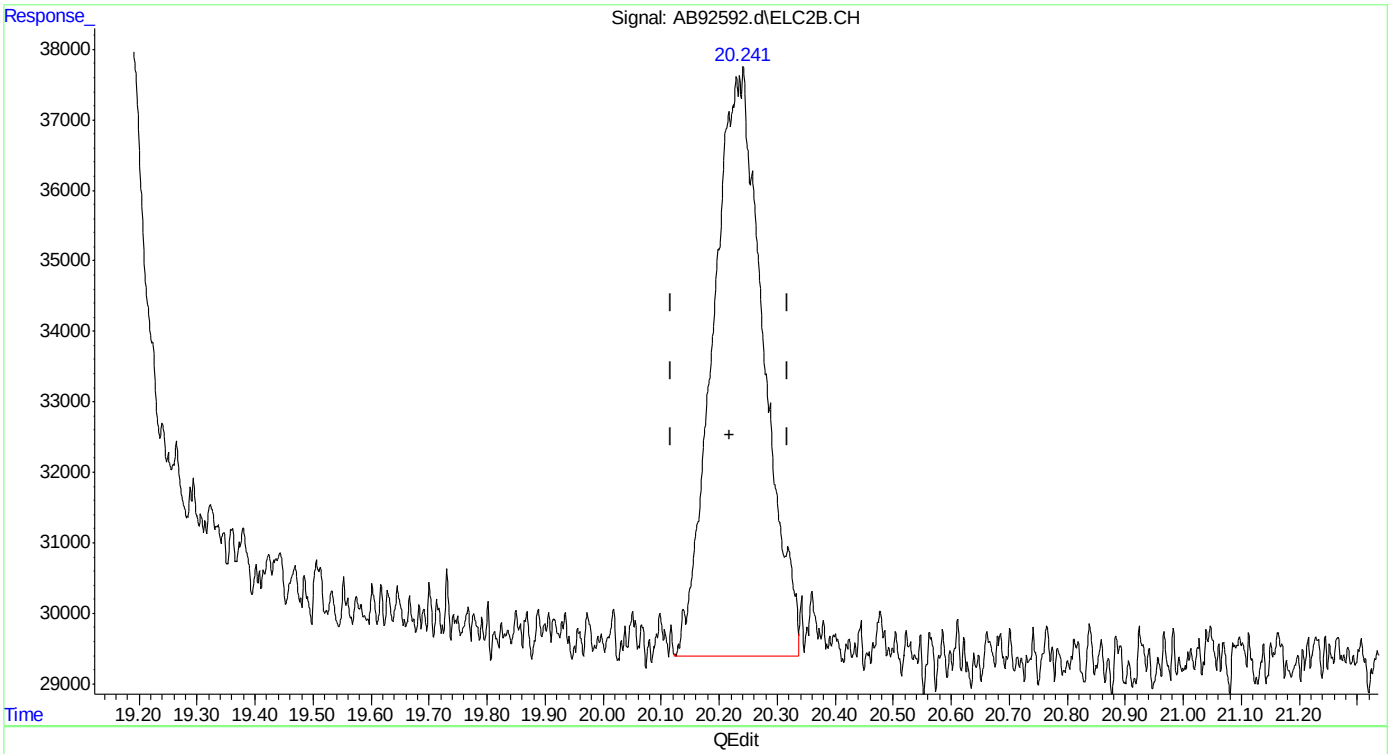
ab160112vphmaster.M Tue Jan 12 14:03:15 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
20.241min 1.042 ppb m
response 500356

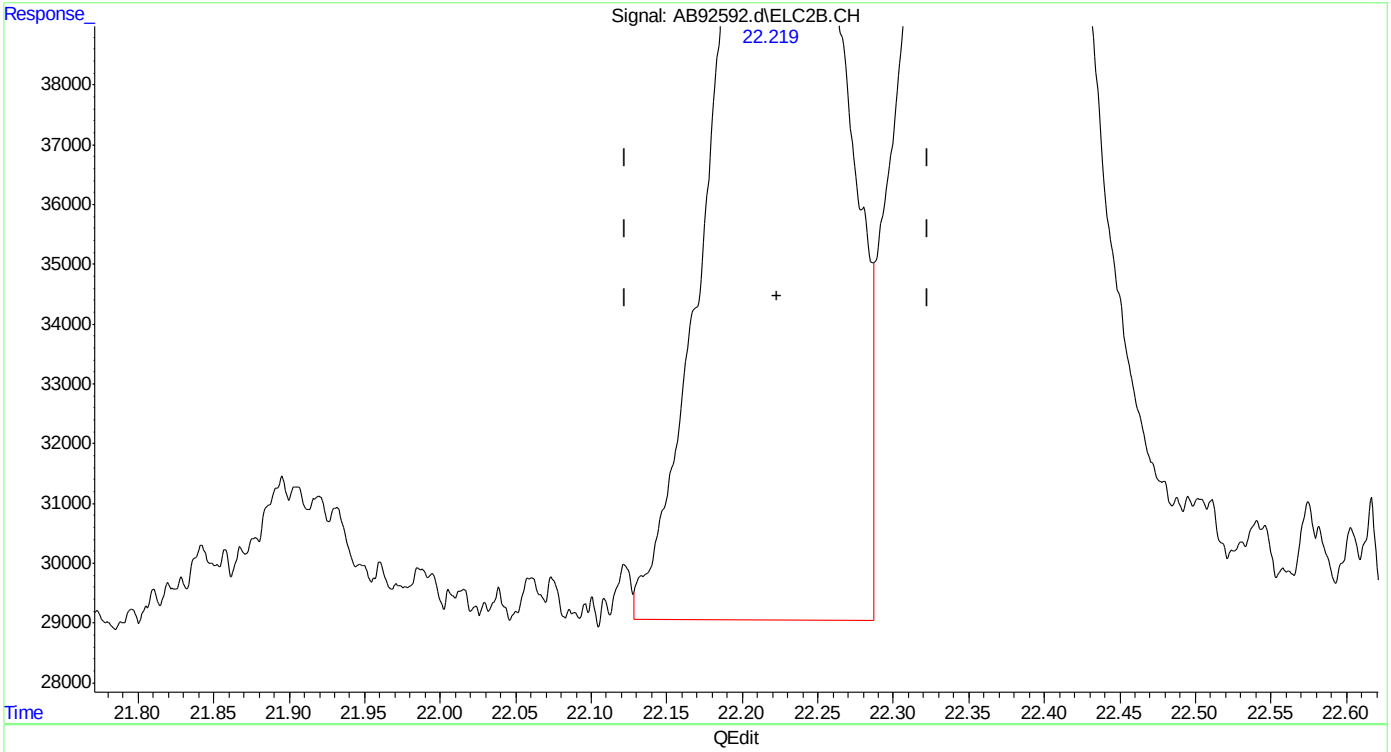
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(28) ethylbenzene #2
22.220min 0.946 ppb
response 931328

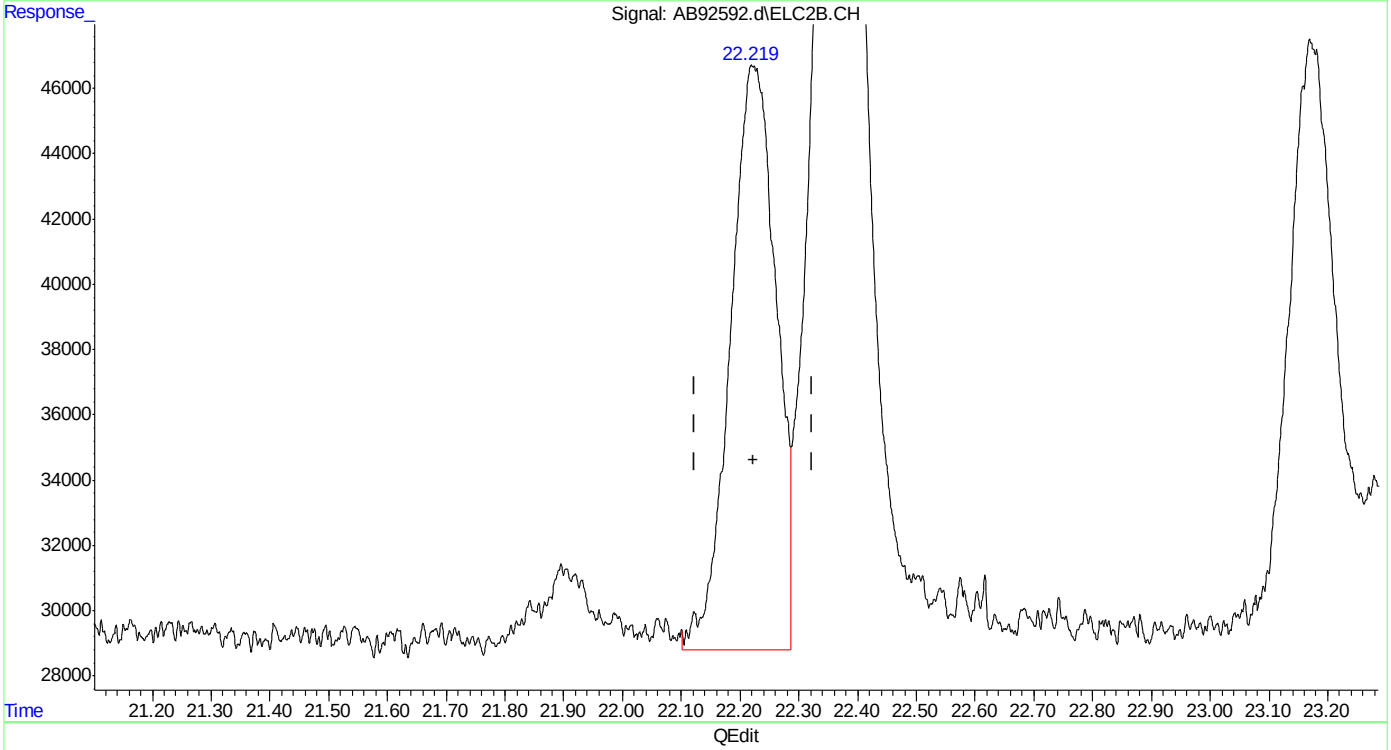
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(28) ethylbenzene #2
22.219min 0.979 ppb m
response 964169

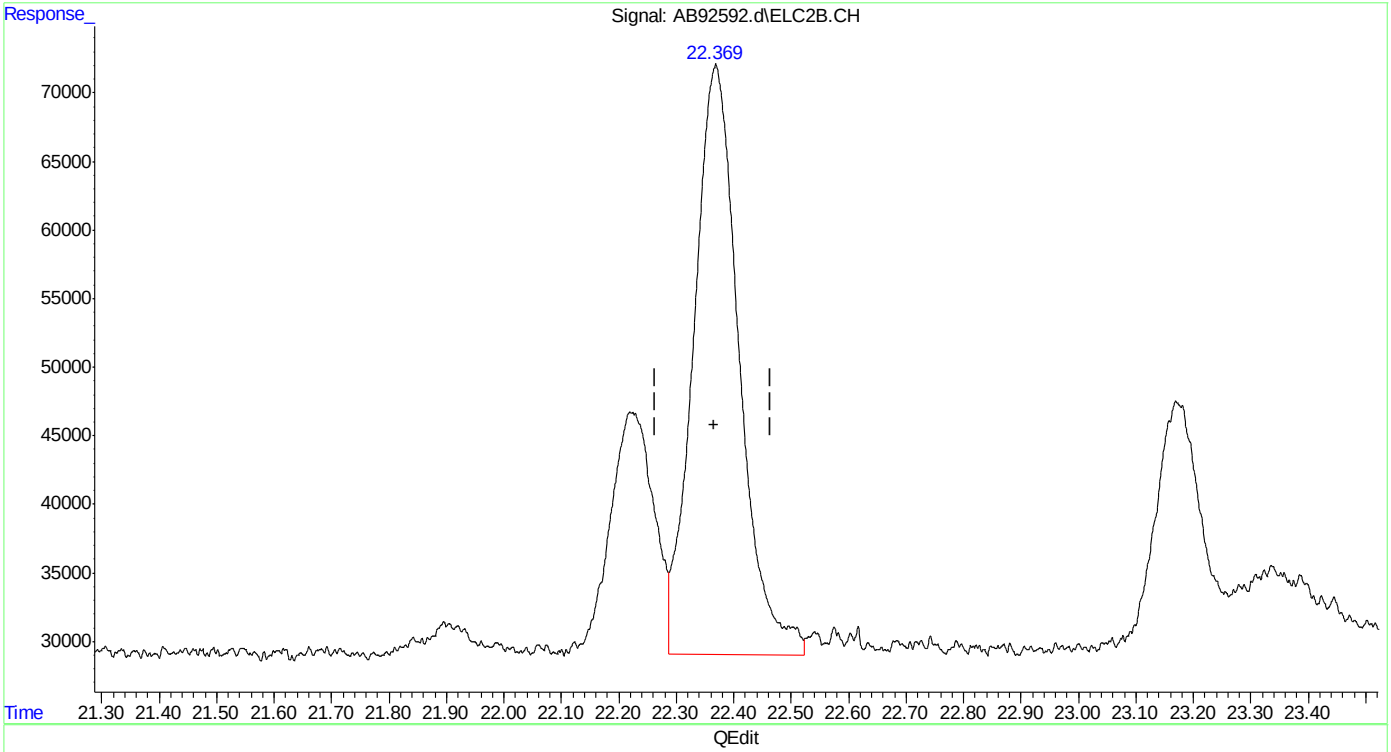
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(29) m,p-xylene #2
22.369min 1.955 ppb
response 2374183

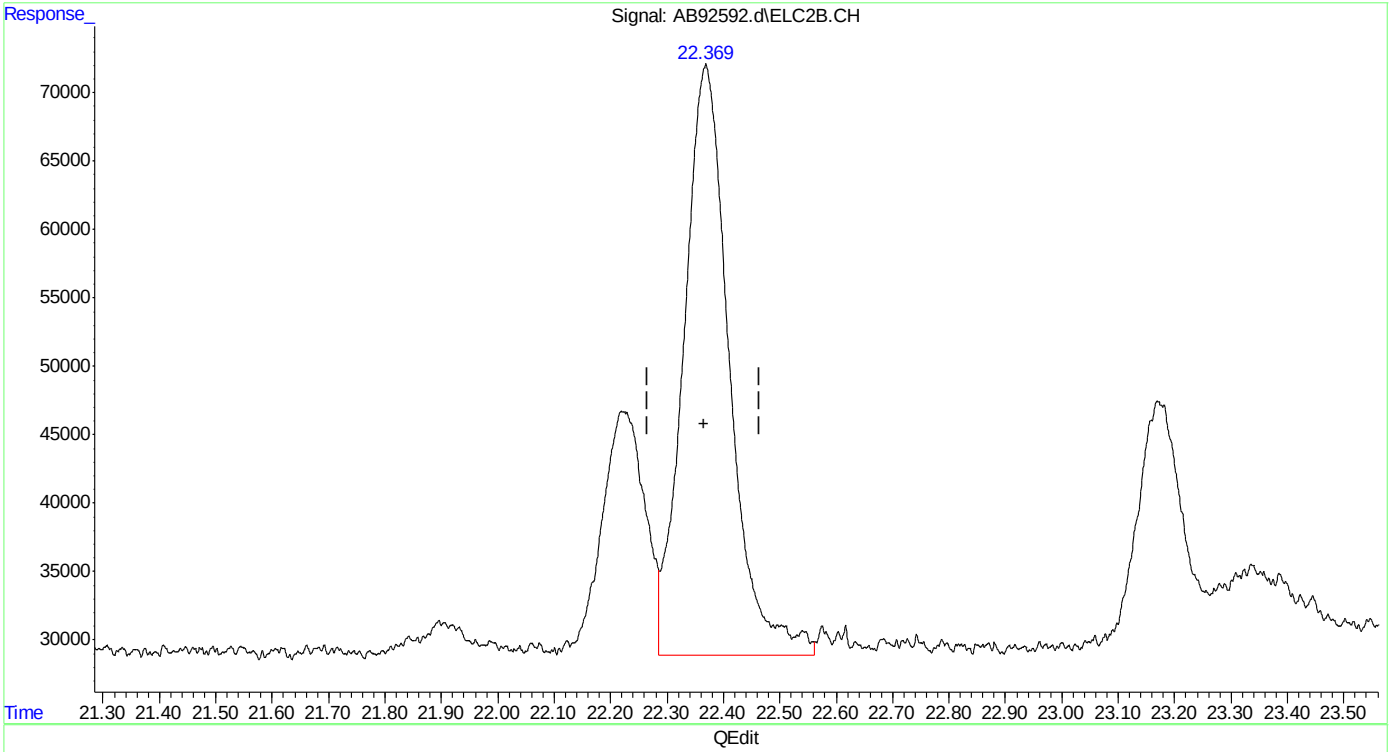
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(29) m,p-xylene #2
22.369min 2.003 ppb m
response 2432291

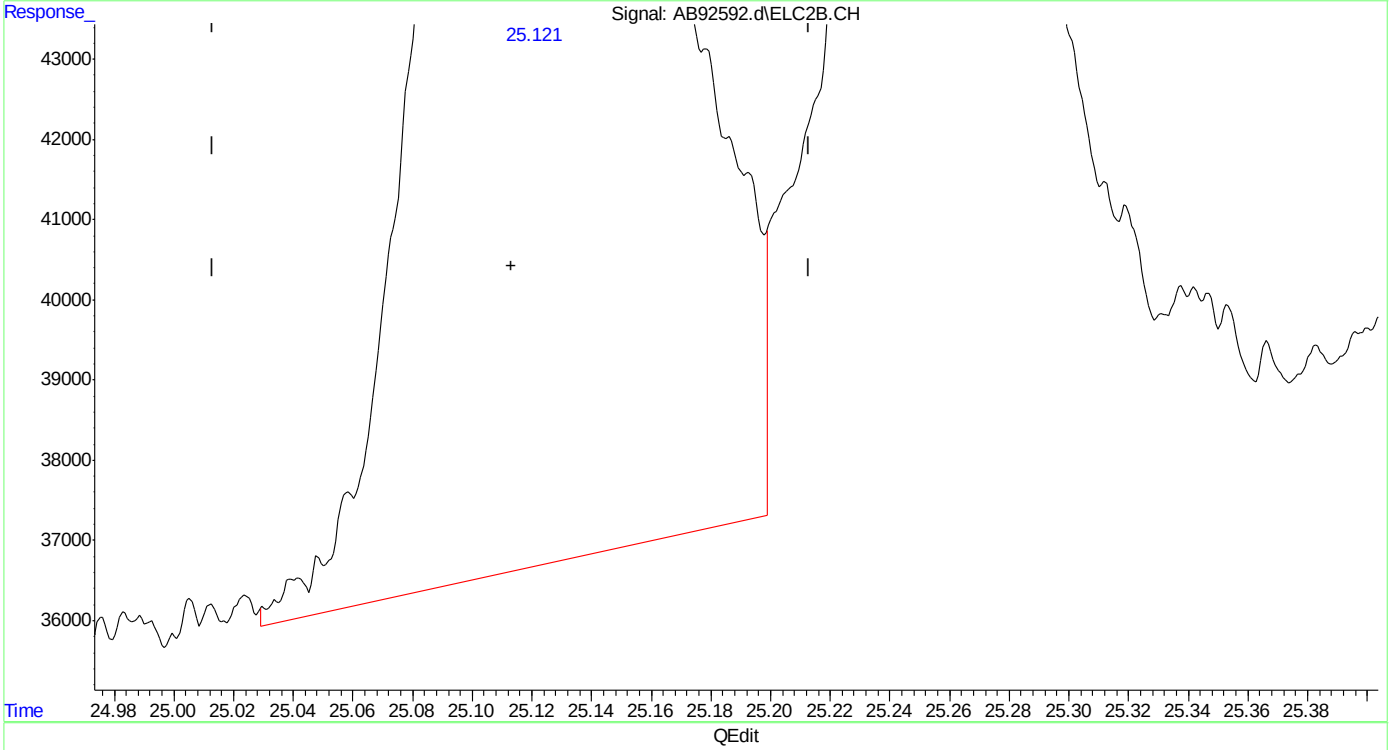
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.121min 0.979 ppb
response 1030211

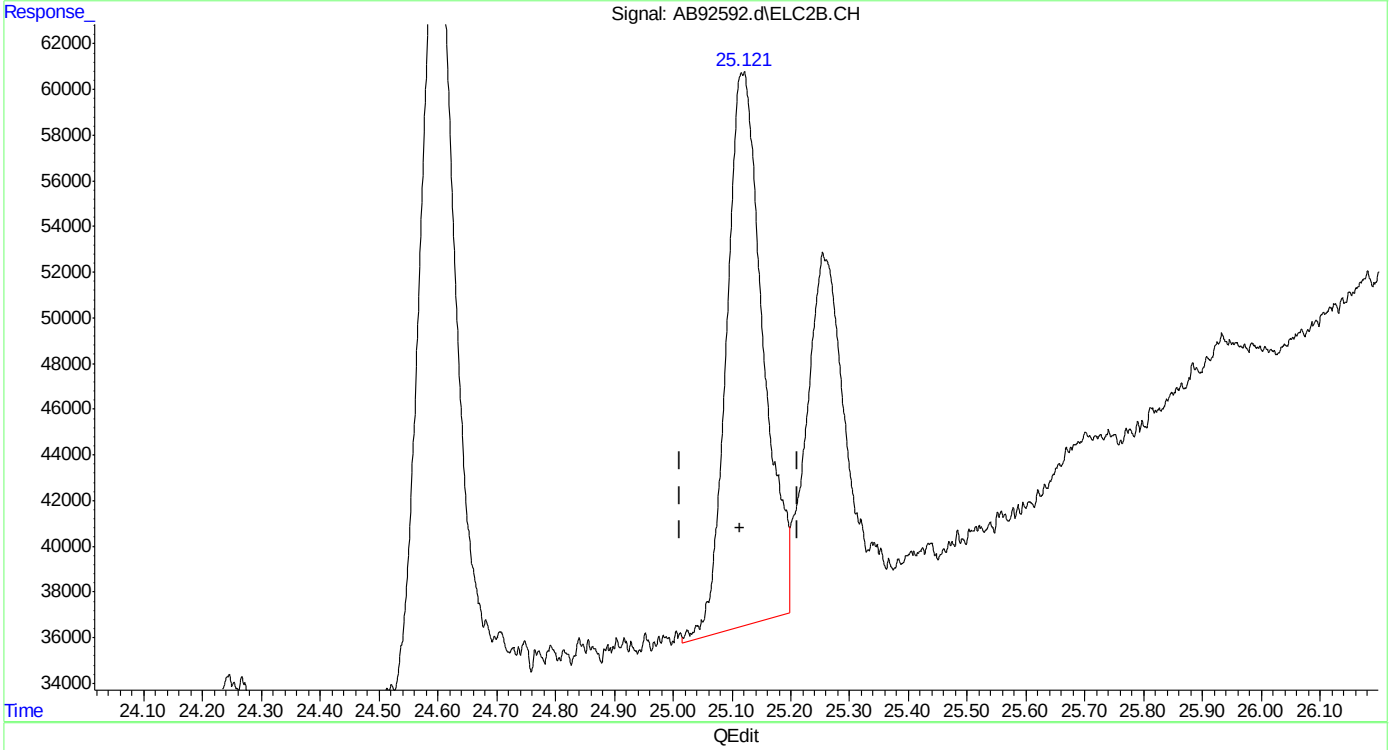
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.121min 0.998 ppb m
response 1050396

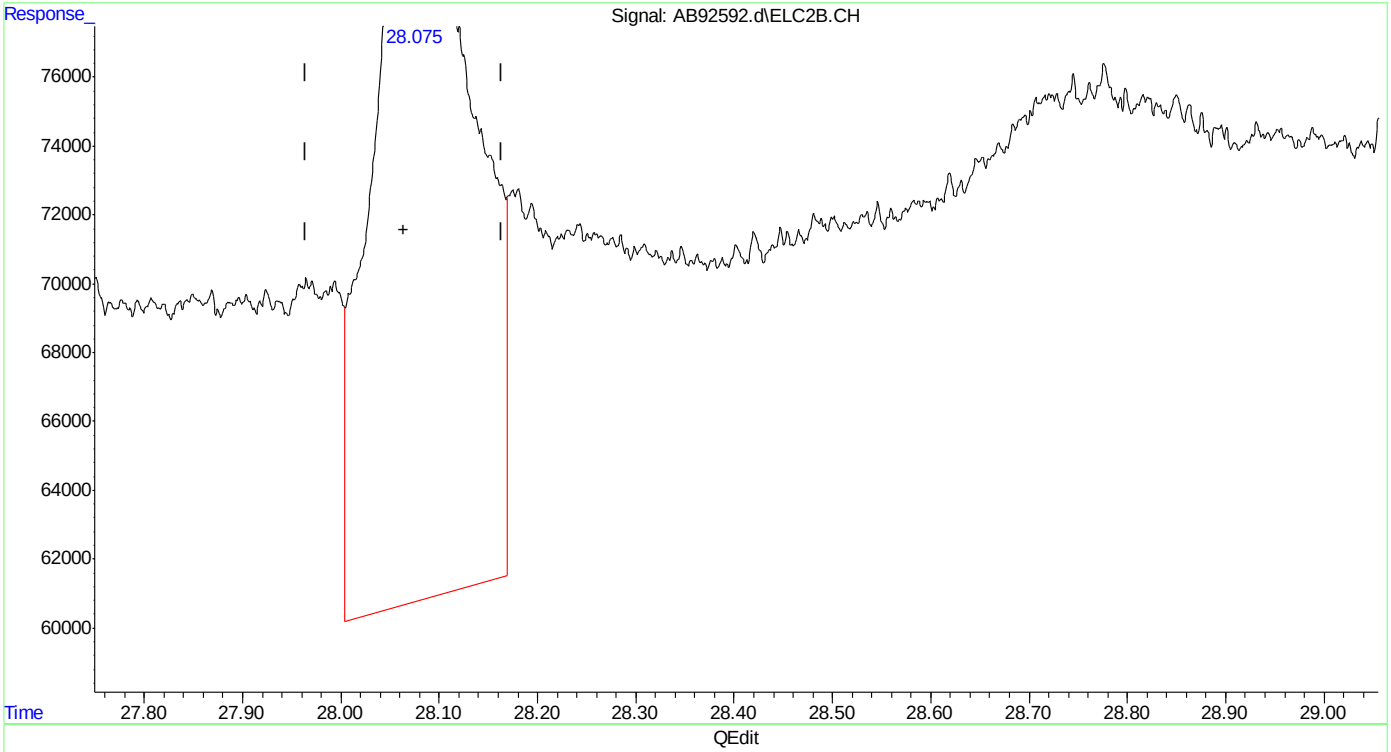
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.075min 2.188 ppb
response 1817004

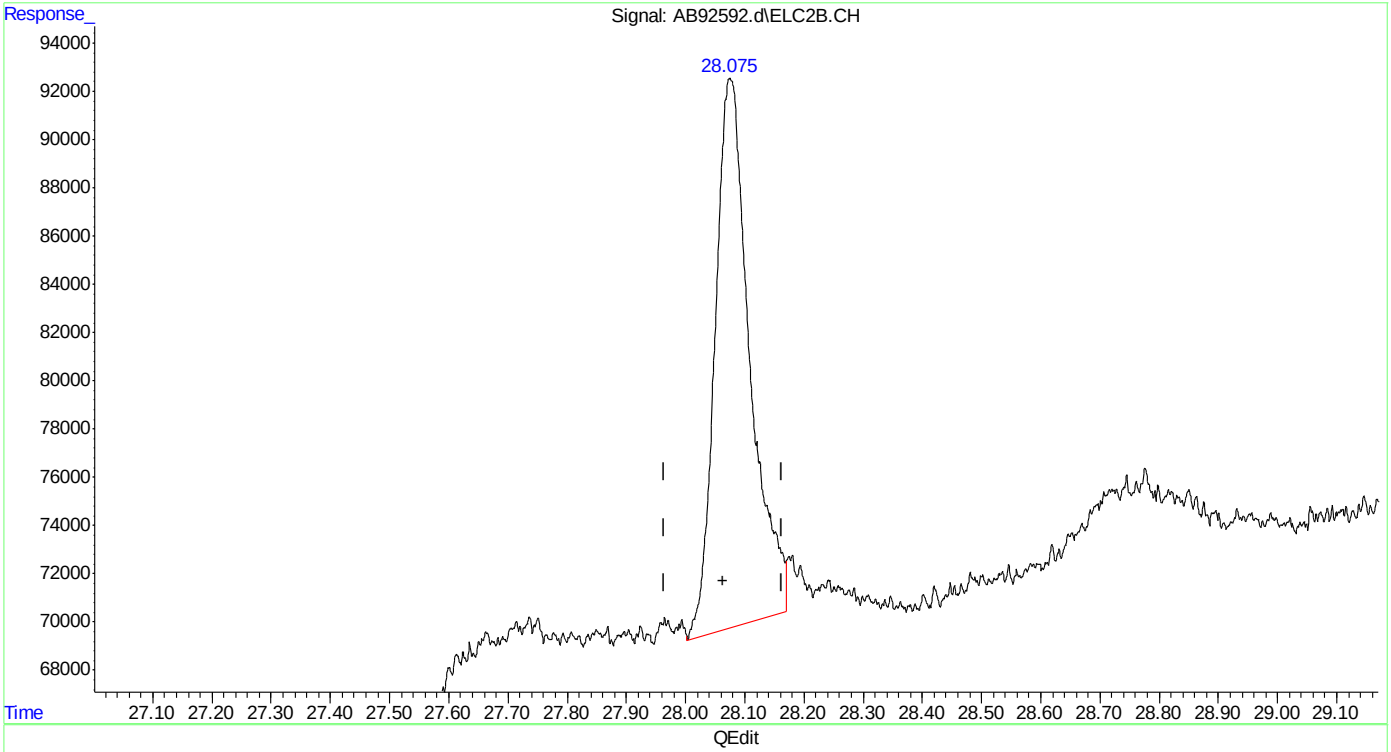
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:49 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.075min 1.122 ppb m
response 932025

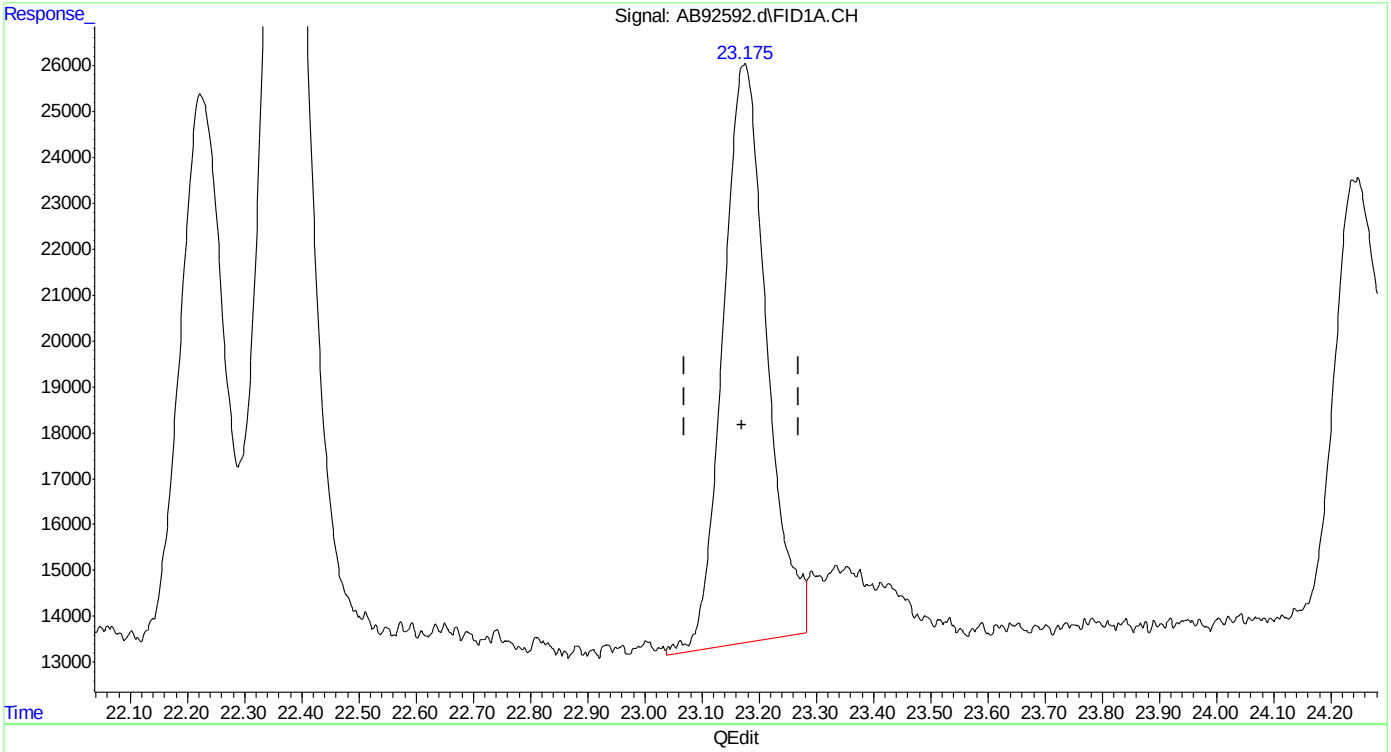
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) o-xylene
23.175min 0.990 ppb m
response 672755

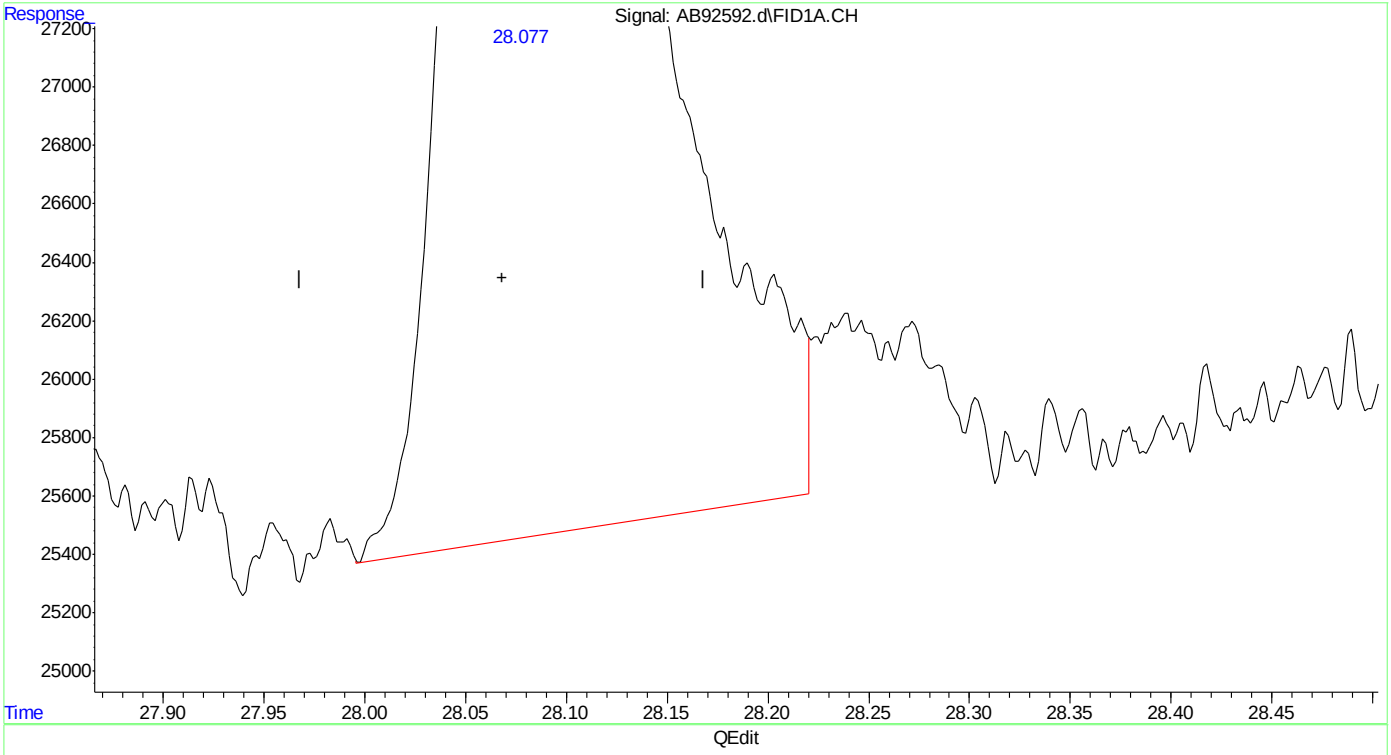
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.077min 1.196 ppb m
response 459832

(+) = Expected Retention Time

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 14:02:22
Operator : haleyn
Sample : icv5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:42:13 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.167	20622765	46.855	ppb	
Spiked Amount 50.000		Recovery =	93.71%		
6) s 2,3,4-trifluorotoluene	20.220	18655151	45.506	ppb	
Spiked Amount 50.000		Recovery =	91.01%		
16) s fluorobenzene #2	15.165	41135835	48.841	ppb	
Spiked Amount 50.000		Recovery =	97.68%		
18) s 2,3,4-trifluorotoluen...	20.218	21681675	46.440	ppb	
Spiked Amount 50.000		Recovery =	92.88%		
Target Compounds					
1) h rt5.5-7	6.370	15547337	38.722	ppb	m
2) h rt7/10	8.710	17999511	44.830	ppb	m
3) h rt10/13	13.890	20920173	52.104	ppb	m
8) h rt20/25	21.900	26744531	42.689	ppb	m
10) h decane	24.230	27320621	43.608	ppb	
11) h butylcyclohexane	25.263	28763512	45.911	ppb	m
14) mtbe #2	9.529	23920523	47.419	ppb	m
15) benzene #2	14.664	65660528	50.444	ppb	
17) toluene #2	19.122	56355118	49.292	ppb	
19) ethylbenzene #2	22.216	45881900	49.556	ppb	
20) m,p-xylene #2	22.359	112454382	106.017	ppb	
21) o-xylene #2	23.164	47383447	50.724	ppb	
22) t 1,3,5-trimethylbenzen...	24.591	63131896	48.321	ppb	
23) 1,2,4-trimethylbenzen...	25.108	47797519	49.943	ppb	
24) naphthalene #2	28.052	33276956	46.032	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.160	47972410	50.073	ppb	m

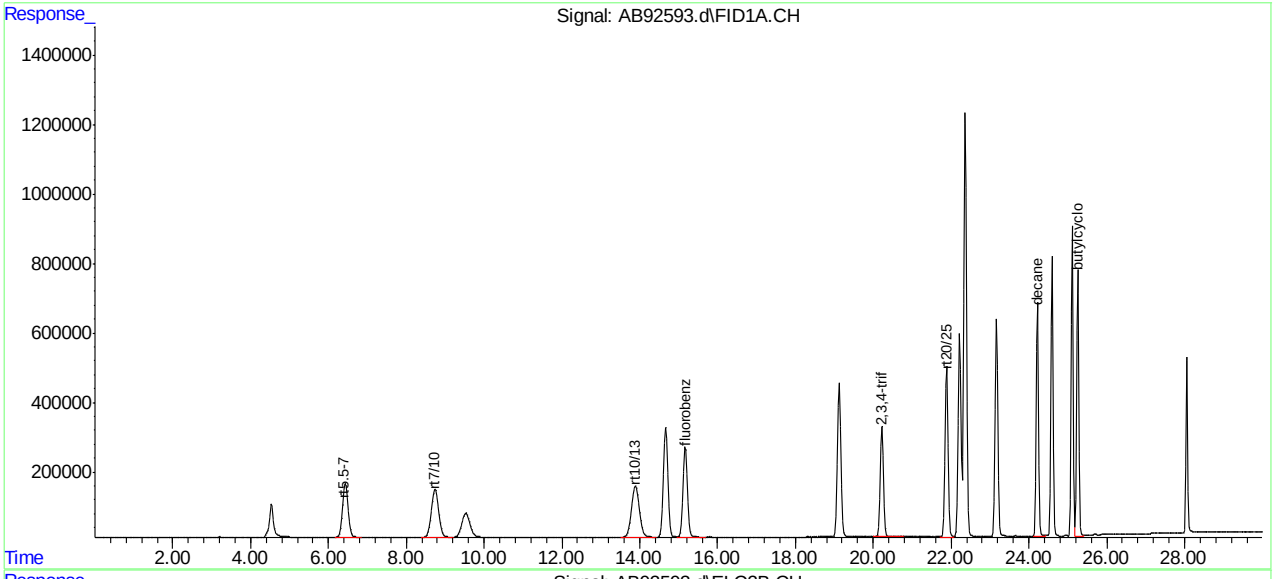
(f)=RT Delta > 1/2 Window (m)=manual int.

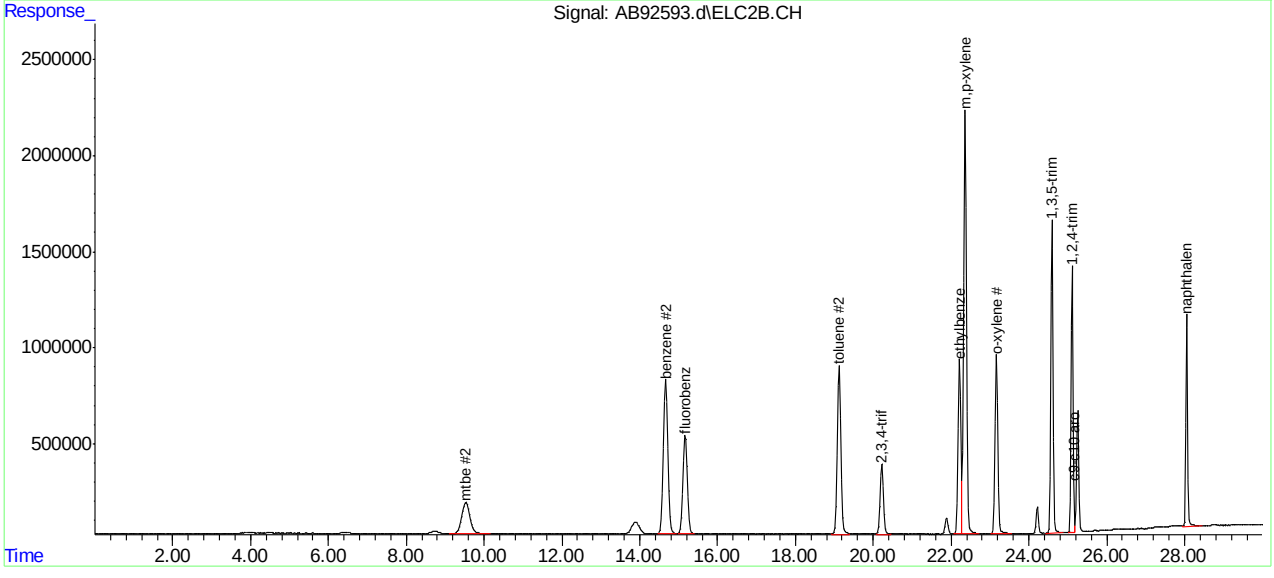
Quantitation Report (QT Reviewed)

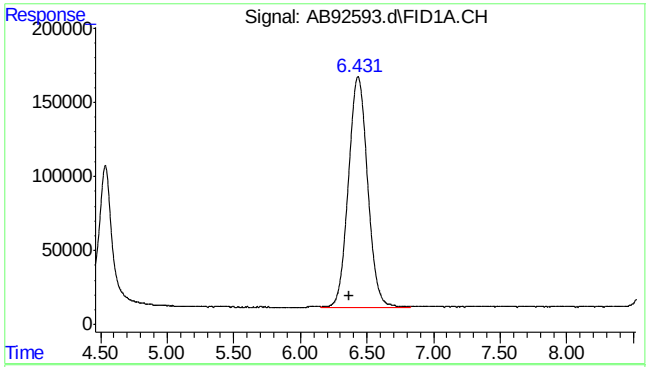
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 14:02:22
Operator : haleyn
Sample : icv5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:42:13 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

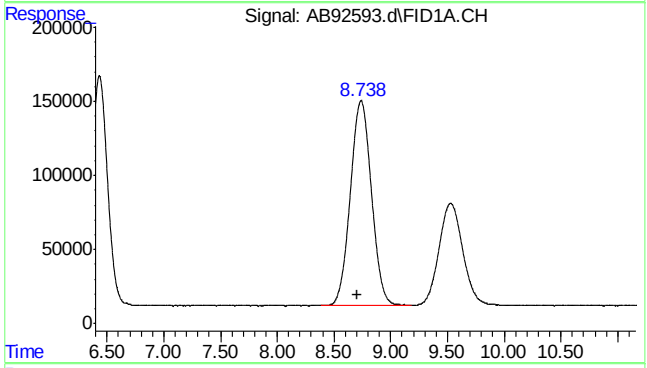






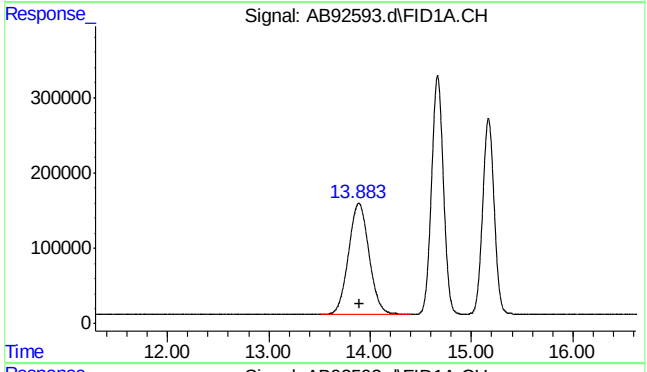
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 15547337
Conc: 38.72 ppb m



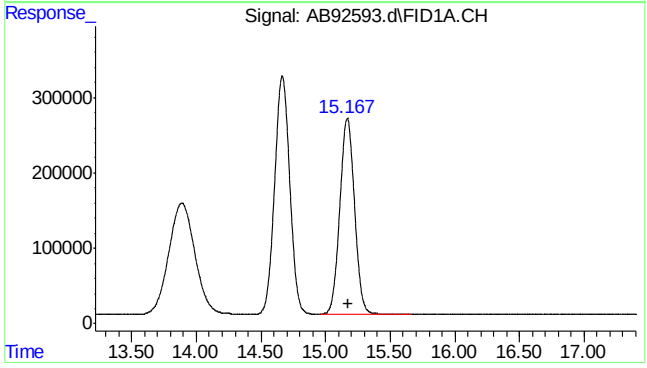
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 17999511
Conc: 44.83 ppb m



#3 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 20920173
Conc: 52.10 ppb m



#4 fluorobenzene

R.T.: 15.167 min
Delta R.T.: -0.005 min
Response: 20622765
Conc: 46.86 ppb

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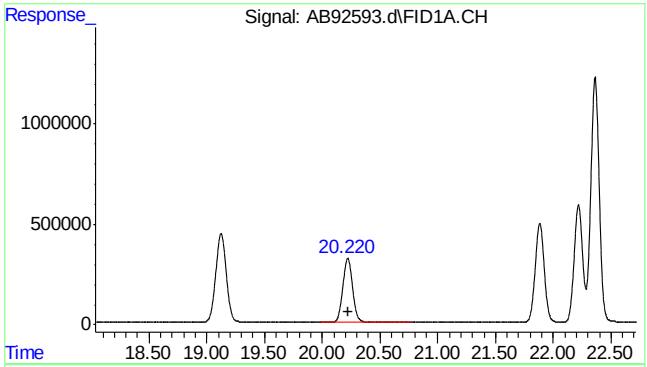
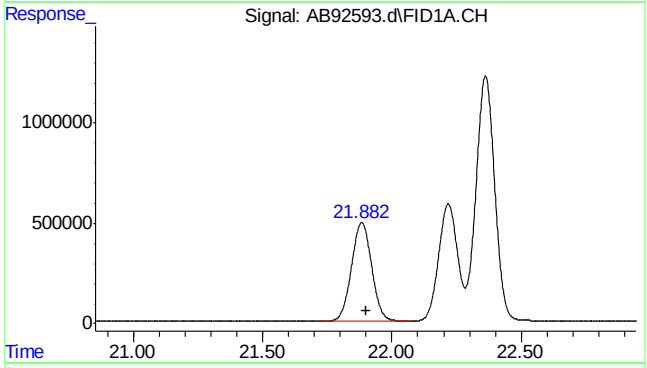


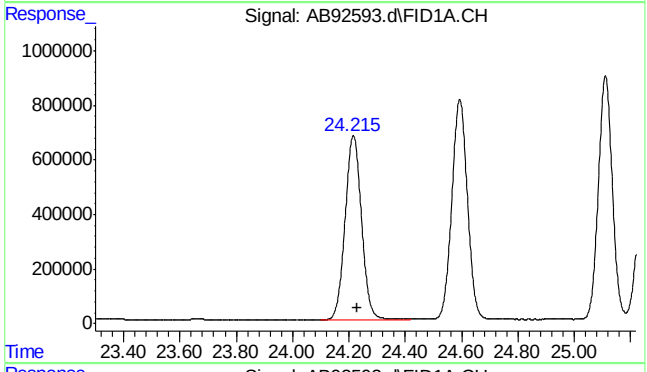
#6 2,3,4-trifluorotoluene

```
      R.T.:   20.220 min
Delta R.T.:   -0.006 min
  Response:  18655151
      Conc:  45.51 ppb
```



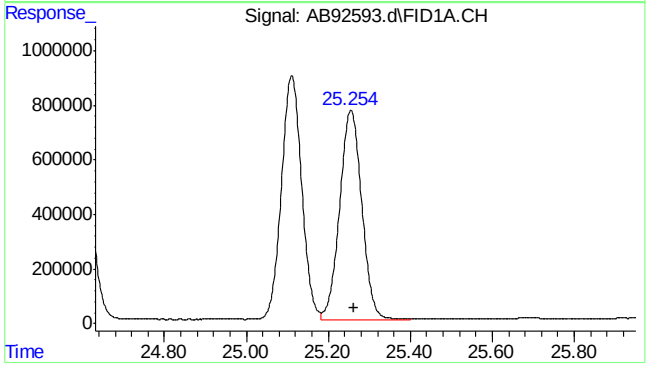
#8 rt20/25

```
      R.T.:   21.900 min
Delta R.T.:    0.000 min
  Response:  26744531
      Conc:  42.69 ppb m
```



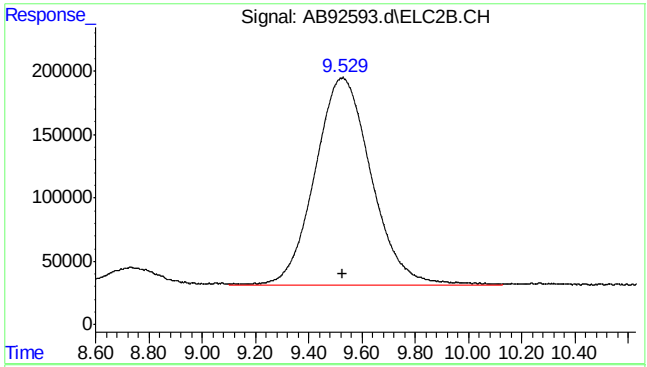
#10 decane

```
      R.T.:   24.230 min
Delta R.T.:    0.000 min
  Response:  27320621
      Conc:  43.61 ppb
```



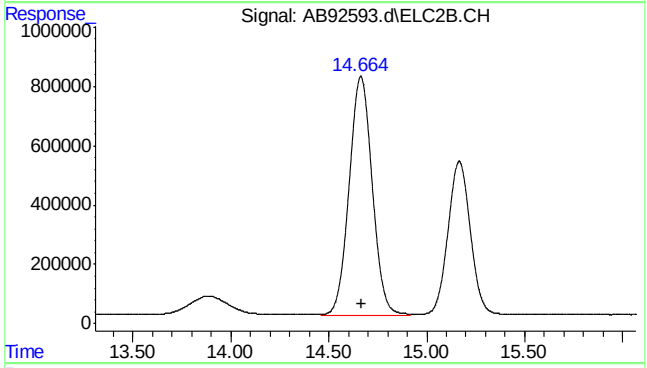
#11 butylcyclohexane

```
      R.T.:   25.263 min
Delta R.T.:    0.000 min
  Response:  28763512
      Conc:  45.91 ppb m
```



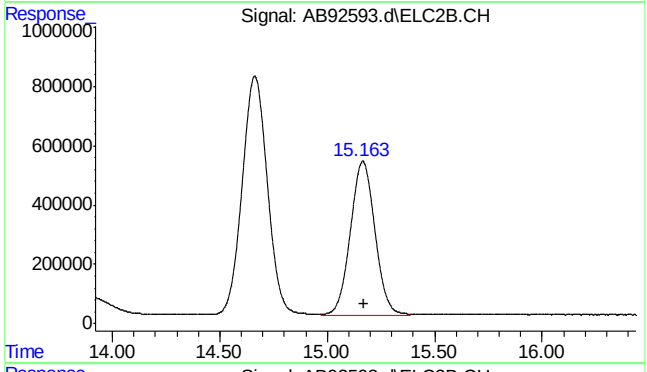
#14 mtbe #2

R.T.: 9.529 min
Delta R.T.: 0.000 min
Response: 23920523
Conc: 47.42 ppb m



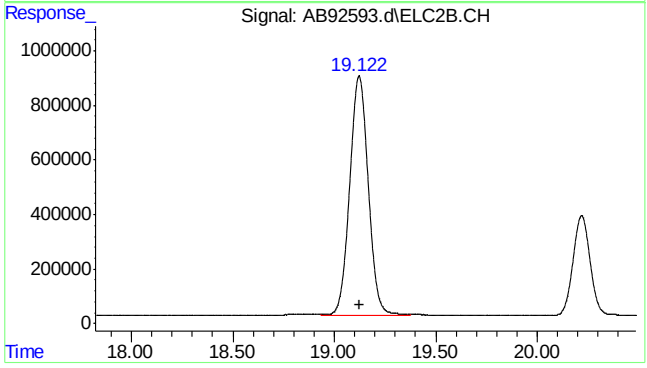
#15 benzene #2

R.T.: 14.664 min
Delta R.T.: -0.002 min
Response: 65660528
Conc: 50.44 ppb



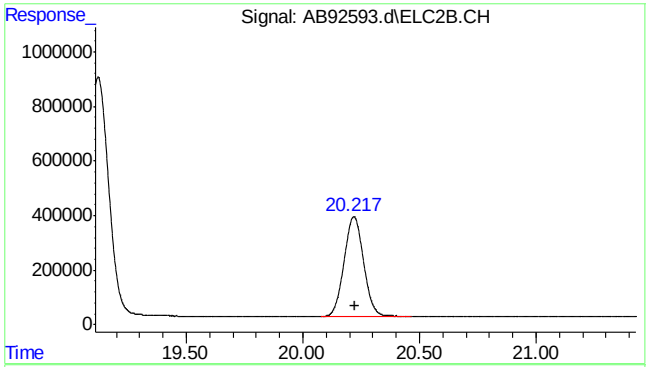
#16 fluorobenzene #2

R.T.: 15.165 min
Delta R.T.: -0.006 min
Response: 41135835
Conc: 48.84 ppb



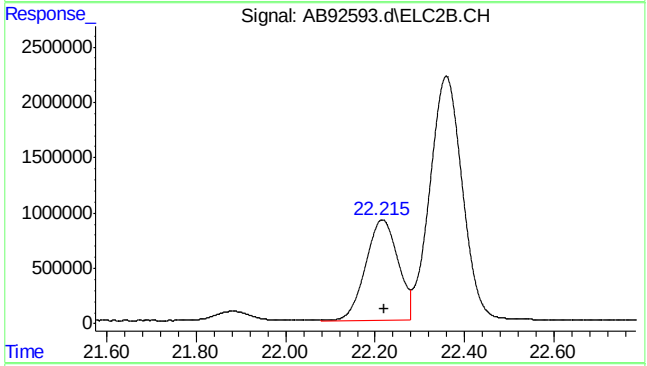
#17 toluene #2

R.T.: 19.122 min
Delta R.T.: -0.003 min
Response: 56355118
Conc: 49.29 ppb



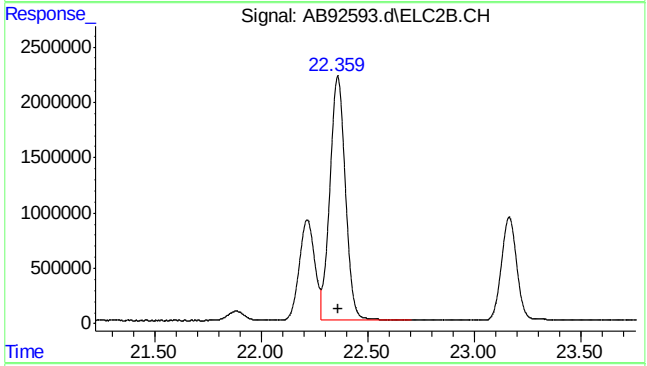
#18 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: -0.005 min
Response: 21681675
Conc: 46.44 ppb



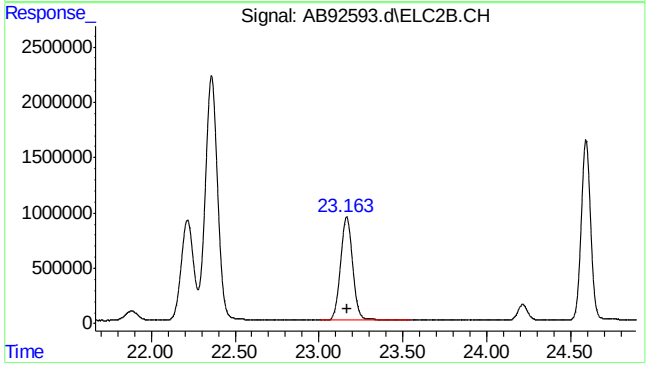
#19 ethylbenzene #2

R.T.: 22.216 min
Delta R.T.: -0.003 min
Response: 45881900
Conc: 49.56 ppb



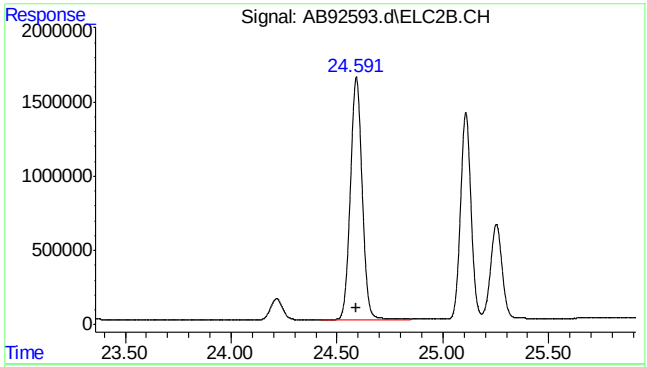
#20 m,p-xylene #2

R.T.: 22.359 min
Delta R.T.: -0.003 min
Response: 112454382
Conc: 106.02 ppb



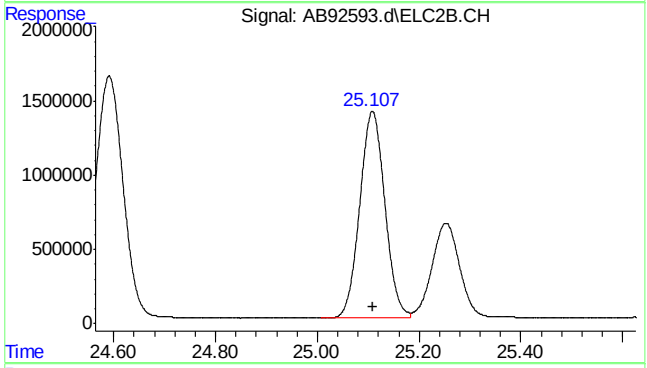
#21 o-xylene #2

R.T.: 23.164 min
Delta R.T.: -0.003 min
Response: 47383447
Conc: 50.72 ppb



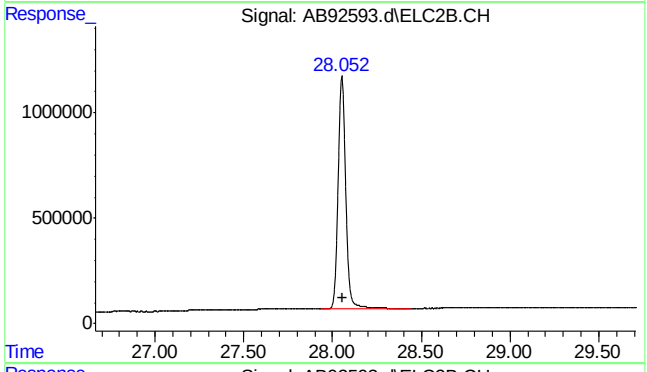
#22 1,3,5-trimethylbenzene #2

R.T.: 24.591 min
Delta R.T.: -0.002 min
Response: 63131896
Conc: 48.32 ppb



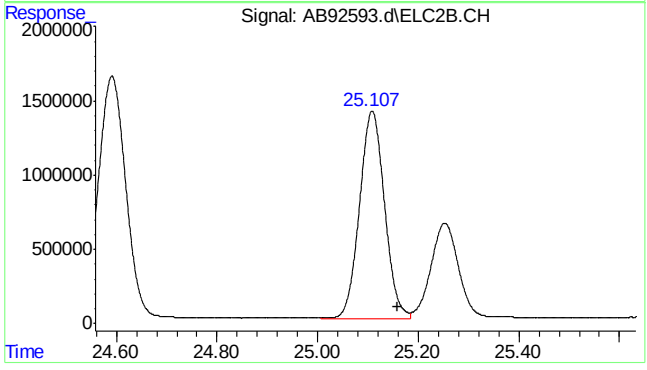
#23 1,2,4-trimethylbenzene #2

R.T.: 25.108 min
Delta R.T.: -0.002 min
Response: 47797519
Conc: 49.94 ppb



#24 naphthalene #2

R.T.: 28.052 min
Delta R.T.: -0.007 min
Response: 33276956
Conc: 46.03 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 47972410
Conc: 50.07 ppb m

7.5.10

7

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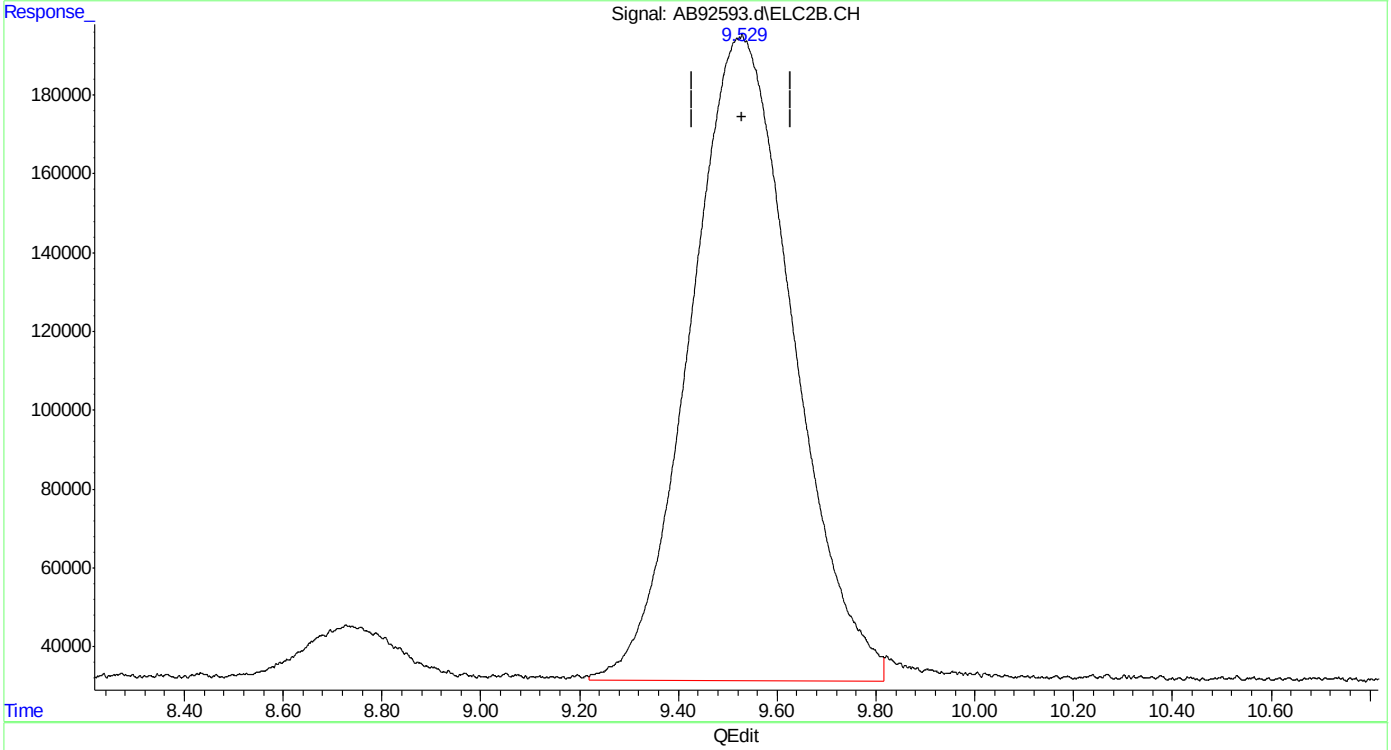
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 14:02:22
Operator  : haleyn
Sample    : icv5058-50
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title  : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.529min 46.820 ppb

response 23618486

(+) = Expected Retention Time

ab160112vph.M Tue Jan 12 15:41:17 2016

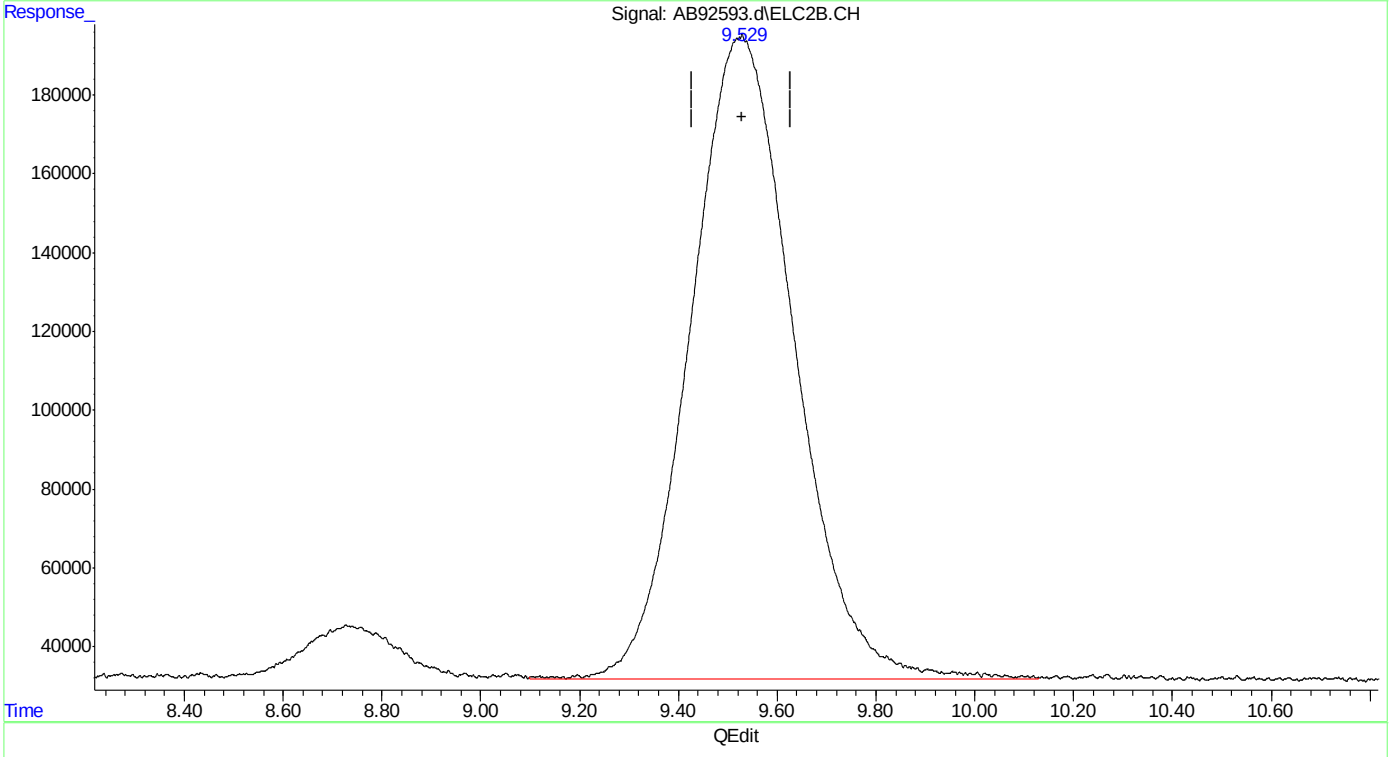
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 14:02:22
Operator : haleyn
Sample : icv5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
9.529min 47.419 ppb m
response 23920523

(+) = Expected Retention Time
ab160112vph.M Tue Jan 12 15:41:23 2016

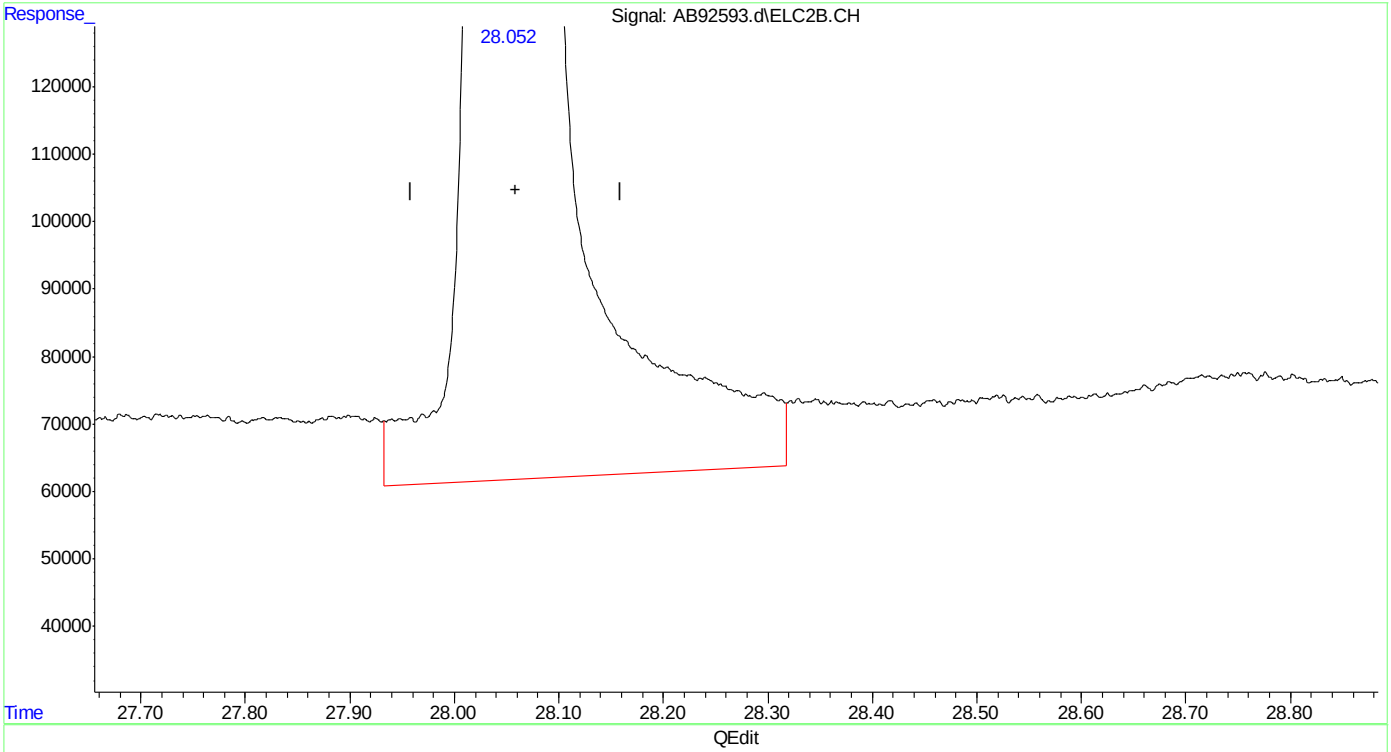
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 14:02:22
Operator  : haleyn
Sample    : icv5058-50
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title  : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.053min 48.358 ppb

response 34958357

(+) = Expected Retention Time

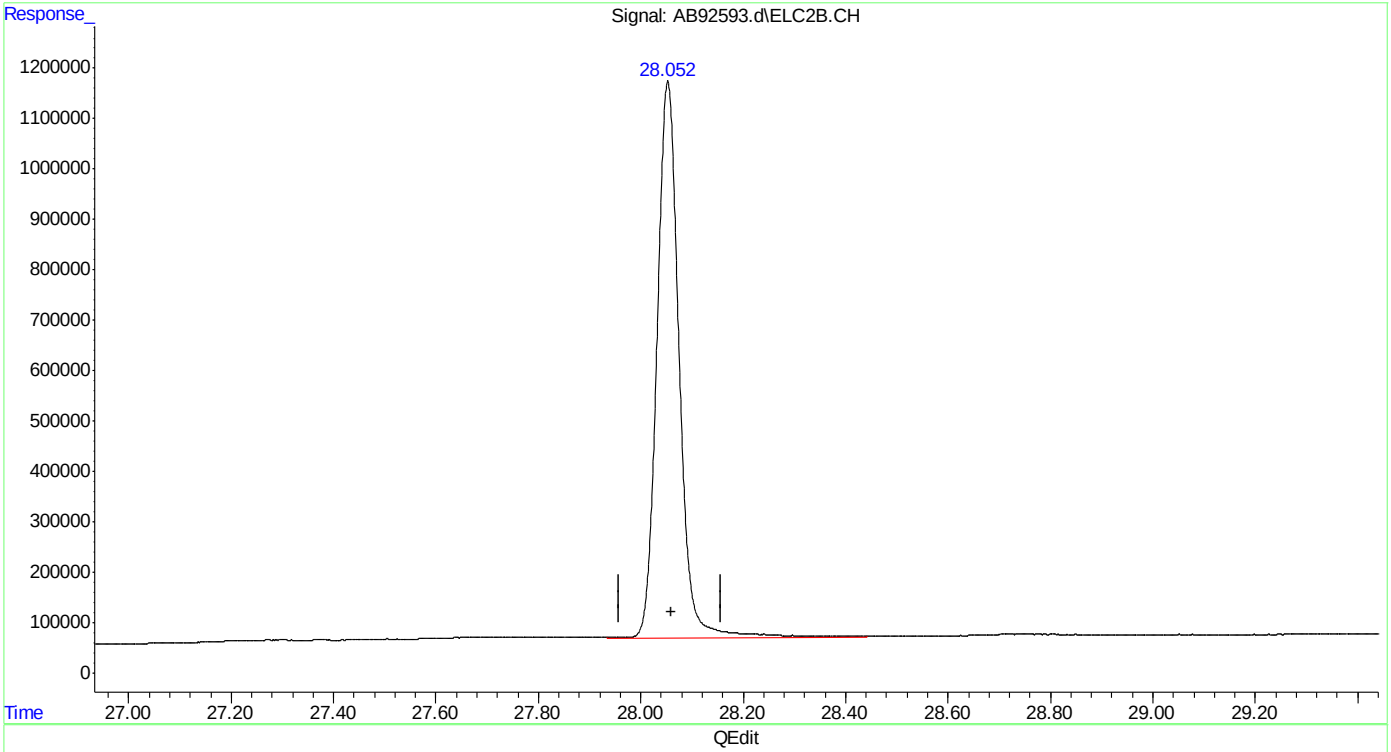
ab160112vph.M Tue Jan 12 15:41:56 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 14:02:22
Operator  : haleyn
Sample    : icv5058-50
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title  : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.052min 46.032 ppb m

response 33276956

(+) = Expected Retention Time

ab160112vph.M Tue Jan 12 15:42:02 2016

SGS ACCUTEST MC45816A

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/17/16 09:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94037.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 10:52:21
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 11:31:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.133	20798281	47.254	ppb	
Spiked Amount 50.000		Recovery =	94.51%		
6) s 2,3,4-trifluorotoluene	20.189	18836384	45.948	ppb	
Spiked Amount 50.000		Recovery =	91.90%		
16) s fluorobenzene #2	15.130	40266036	47.808	ppb	
Spiked Amount 50.000		Recovery =	95.62%		
18) s 2,3,4-trifluorotoluen...	20.187	21271269	45.561	ppb	
Spiked Amount 50.000		Recovery =	91.12%		
Target Compounds					
1) h rt5.5-7	6.420	16491755	41.074	ppb	m
2) h rt7/10	8.720	18790298	46.799	ppb	m
3) h rt10/13	13.870	21656542	53.938	ppb	m
8) h rt20/25	21.870	26788866	42.759	ppb	m
10) h decane	24.200	27387125	43.714	ppb	
11) h butylcyclohexane	25.240	29432463	46.979	ppb	m
14) mtbe #2	9.499	25609443	50.767	ppb	m
15) benzene #2	14.628	62410623	47.947	ppb	
17) toluene #2	19.089	53905241	47.150	ppb	
19) ethylbenzene #2	22.186	44291247	47.838	ppb	
20) m,p-xylene #2	22.329	106366326	100.278	ppb	
21) o-xylene #2	23.135	44347380	47.474	ppb	
22) t 1,3,5-trimethylbenzen...	24.568	57362971	43.905	ppb	
23) 1,2,4-trimethylbenzen...	25.086	44388611	46.381	ppb	
24) naphthalene #2	28.029	32737046	45.285	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	44436691	46.383	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

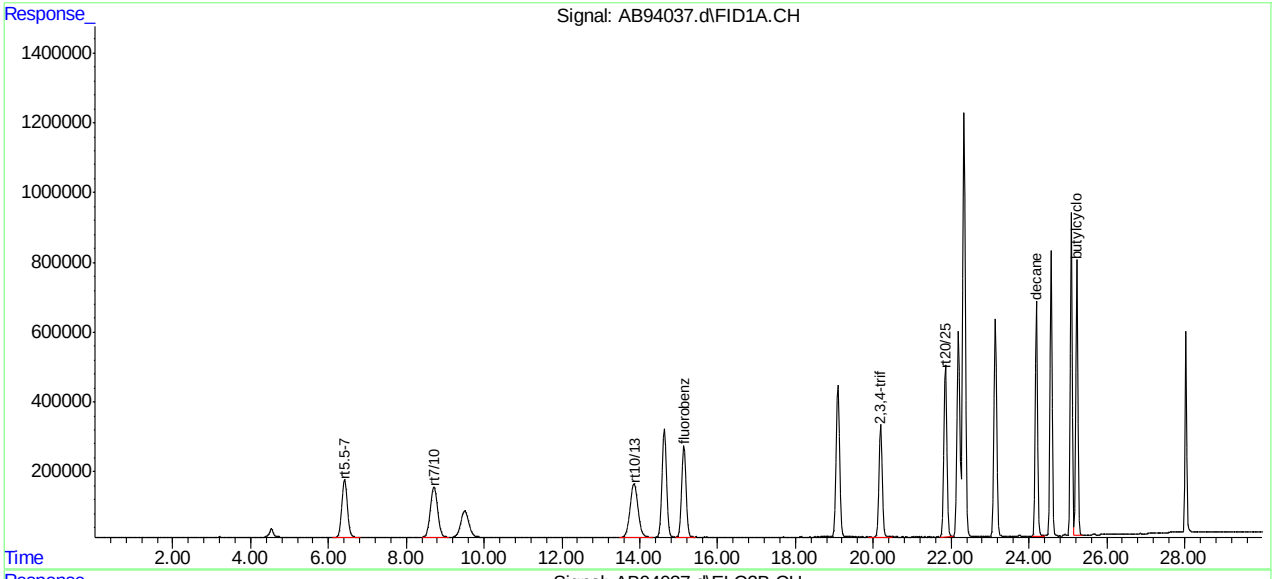
SGS ACCUTEST MC45816A

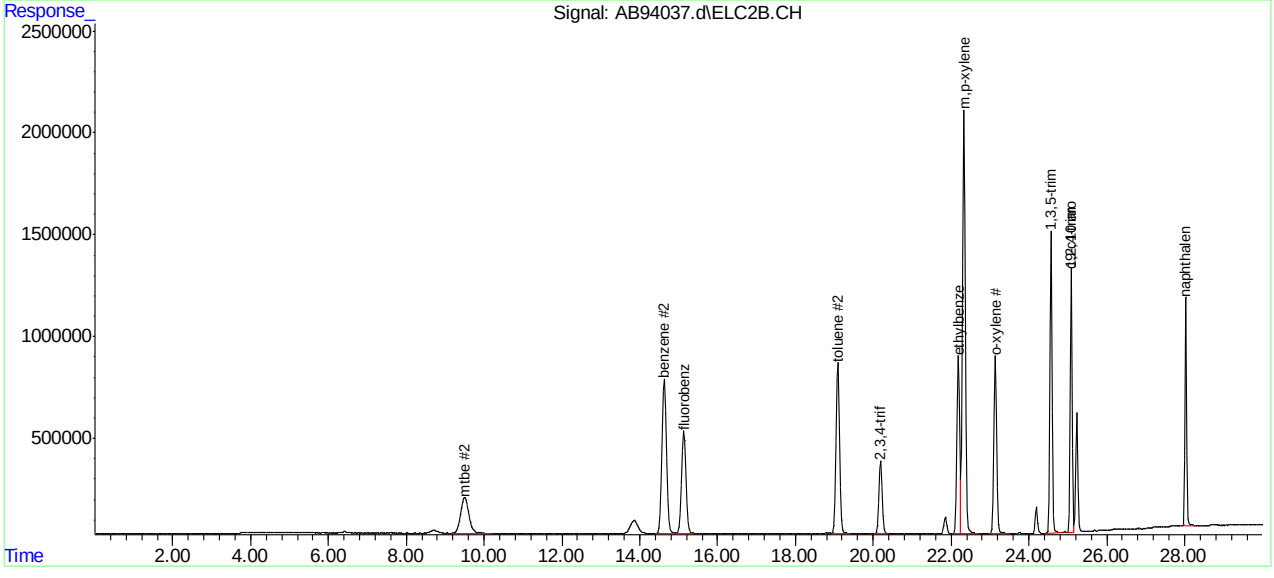
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94037.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 10:52:21
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

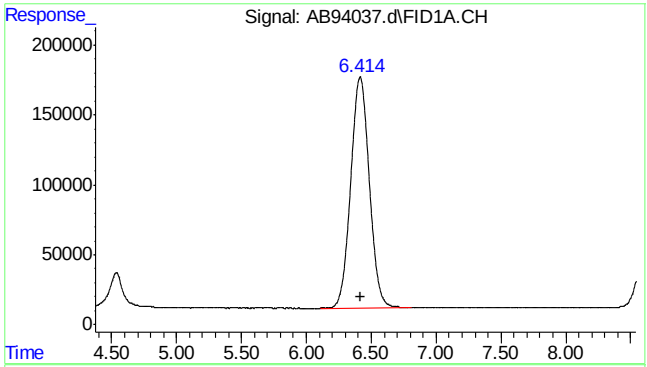
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 11:31:18 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



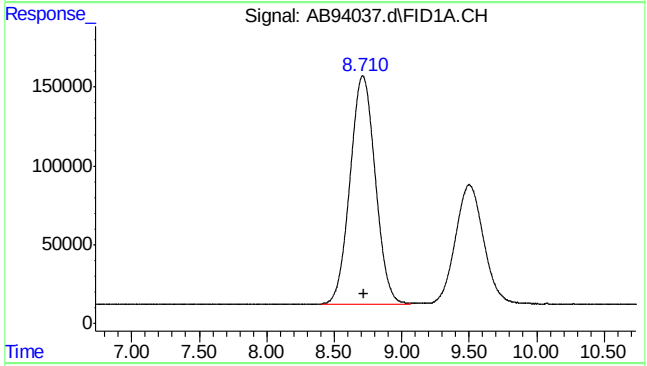


SGS ACCUTEST MC45816A



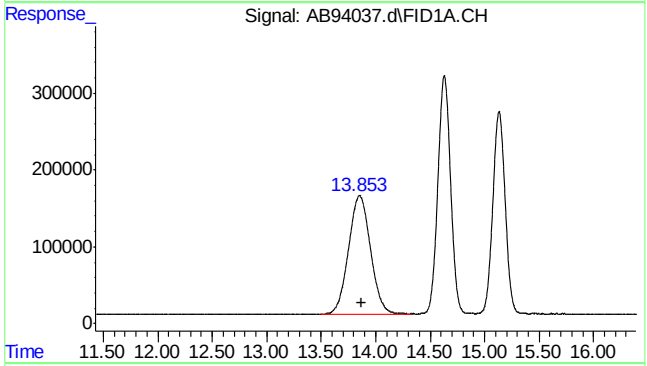
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16491755
Conc: 41.07 ppb m



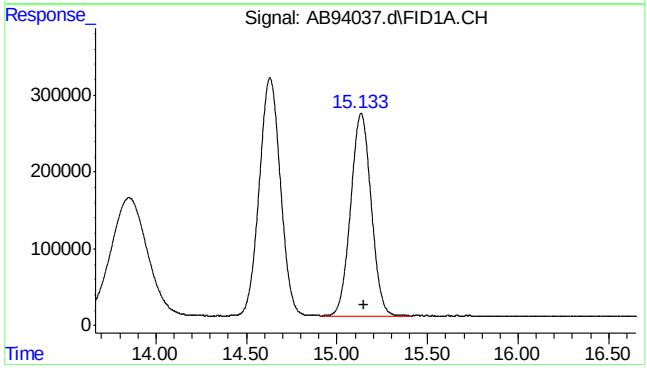
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18790298
Conc: 46.80 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21656542
Conc: 53.94 ppb m



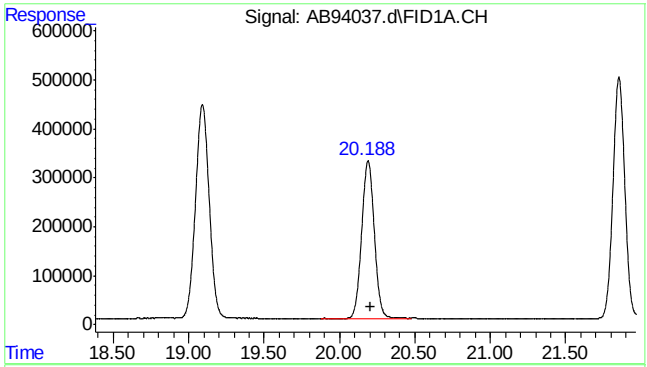
#4 fluorobenzene

R.T.: 15.133 min
Delta R.T.: -0.018 min
Response: 20798281
Conc: 47.25 ppb

7.5.11

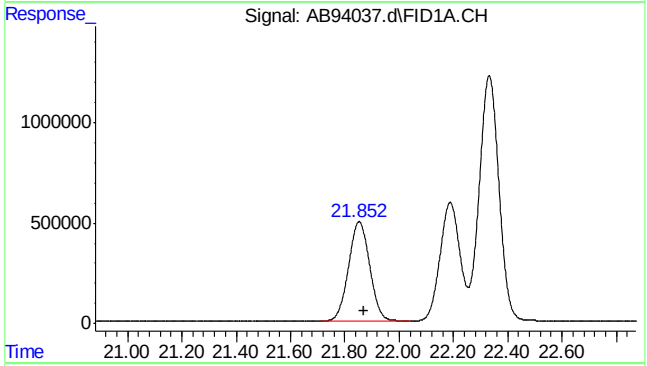
7

SGS ACCUTEST MC45816A



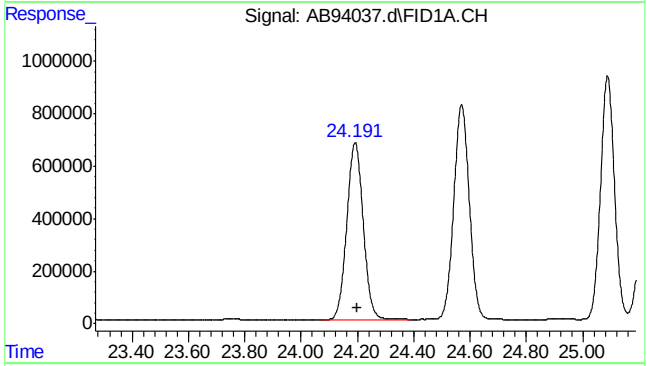
#6 2,3,4-trifluorotoluene

R.T.: 20.189 min
Delta R.T.: -0.016 min
Response: 18836384
Conc: 45.95 ppb



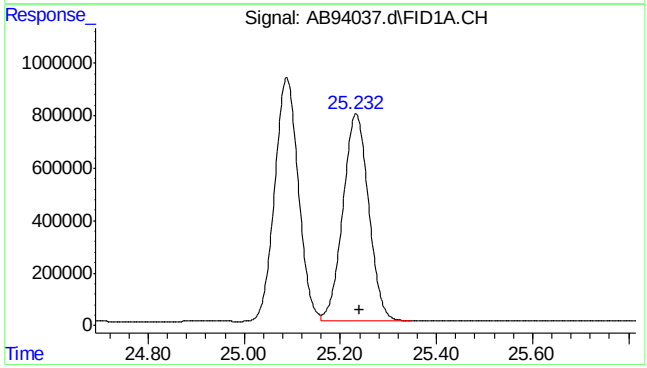
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26788866
Conc: 42.76 ppb m



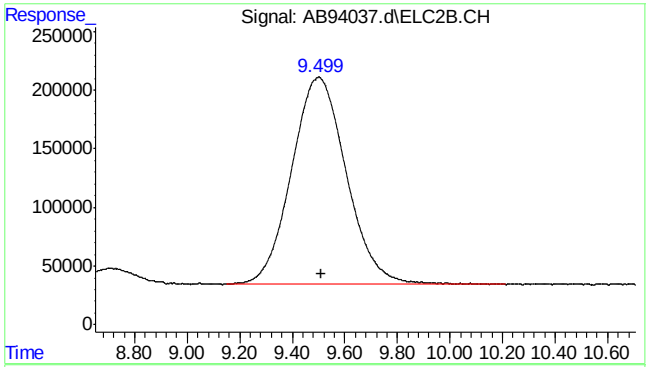
#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 27387125
Conc: 43.71 ppb



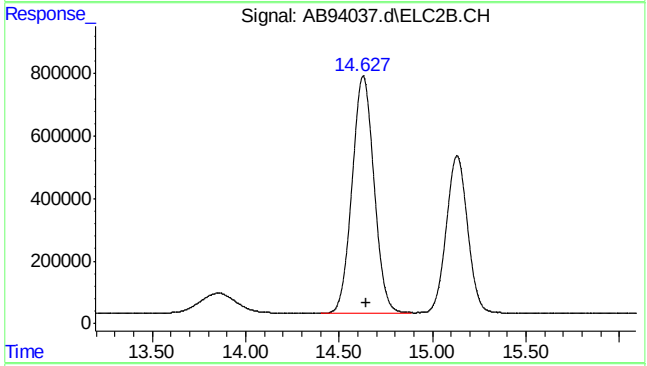
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29432463
Conc: 46.98 ppb m



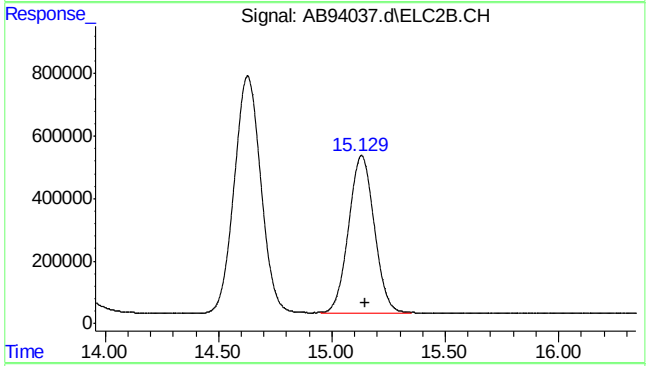
#14 mtbe #2

R.T.: 9.499 min
Delta R.T.: -0.012 min
Response: 25609443
Conc: 50.77 ppb m



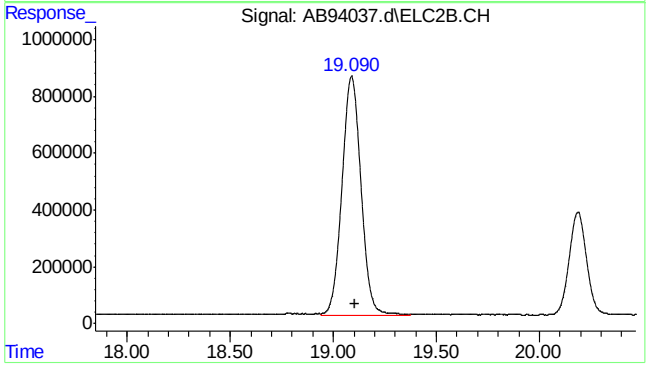
#15 benzene #2

R.T.: 14.628 min
Delta R.T.: -0.018 min
Response: 62410623
Conc: 47.95 ppb



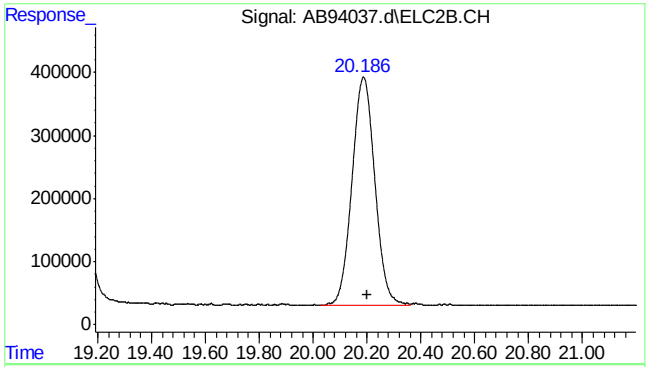
#16 fluorobenzene #2

R.T.: 15.130 min
Delta R.T.: -0.018 min
Response: 40266036
Conc: 47.81 ppb



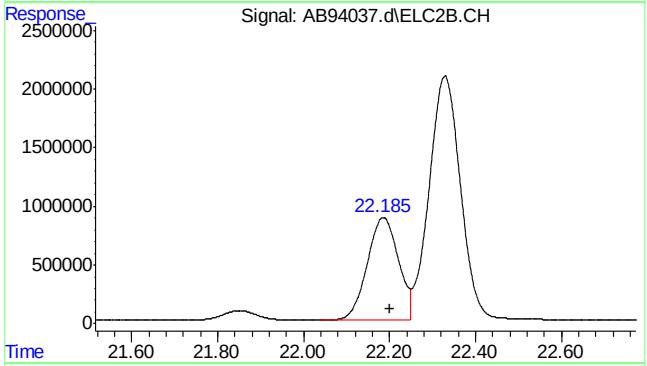
#17 toluene #2

R.T.: 19.089 min
Delta R.T.: -0.017 min
Response: 53905241
Conc: 47.15 ppb



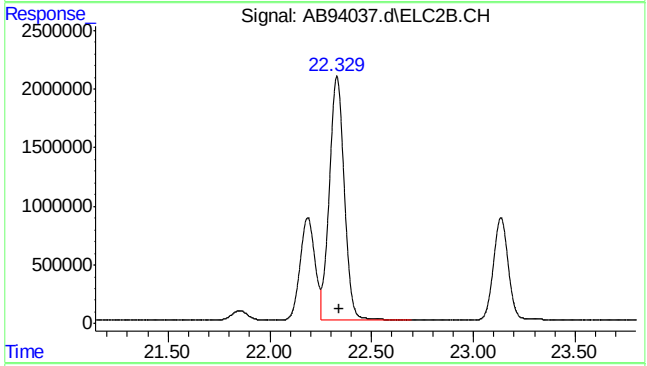
#18 2,3,4-trifluorotoluene #2

R.T.: 20.187 min
Delta R.T.: -0.016 min
Response: 21271269
Conc: 45.56 ppb



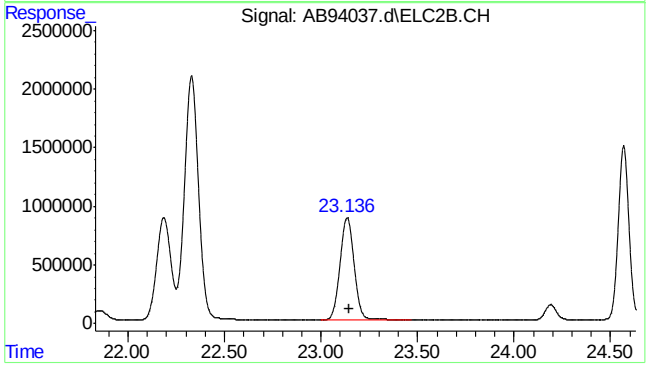
#19 ethylbenzene #2

R.T.: 22.186 min
Delta R.T.: -0.015 min
Response: 44291247
Conc: 47.84 ppb



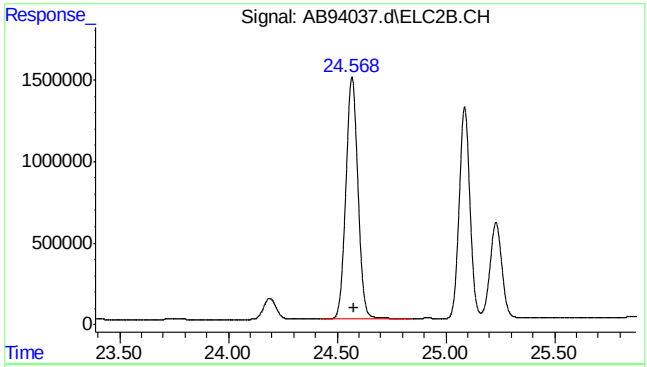
#20 m,p-xylene #2

R.T.: 22.329 min
Delta R.T.: -0.015 min
Response: 106366326
Conc: 100.28 ppb



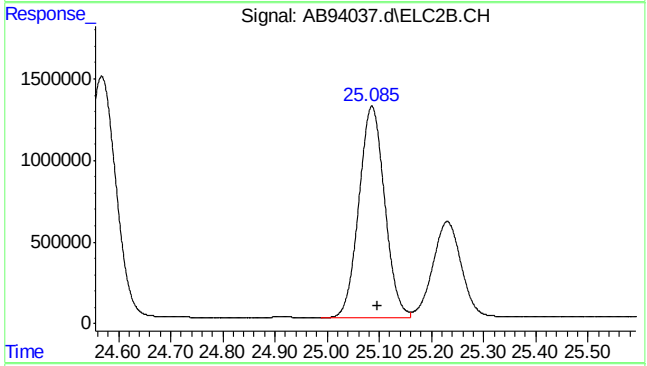
#21 o-xylene #2

R.T.: 23.135 min
Delta R.T.: -0.015 min
Response: 44347380
Conc: 47.47 ppb



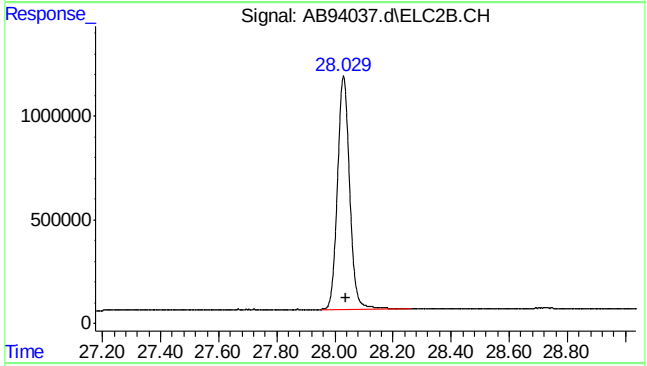
#22 1,3,5-trimethylbenzene #2

R.T.: 24.568 min
Delta R.T.: -0.011 min
Response: 57362971
Conc: 43.91 ppb



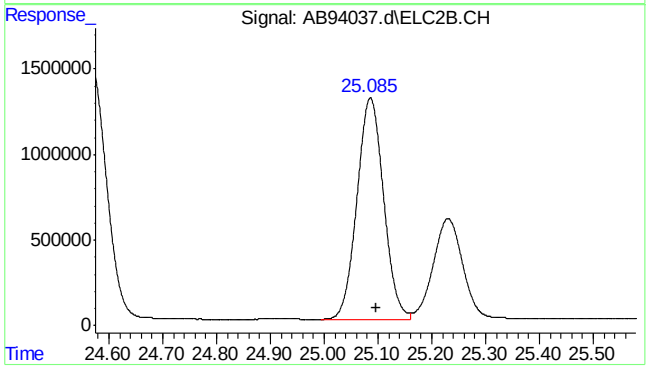
#23 1,2,4-trimethylbenzene #2

R.T.: 25.086 min
Delta R.T.: -0.010 min
Response: 44388611
Conc: 46.38 ppb



#24 naphthalene #2

R.T.: 28.029 min
Delta R.T.: -0.009 min
Response: 32737046
Conc: 45.29 ppb m



#25 c9-c10 arom as 1,2,4-tmb

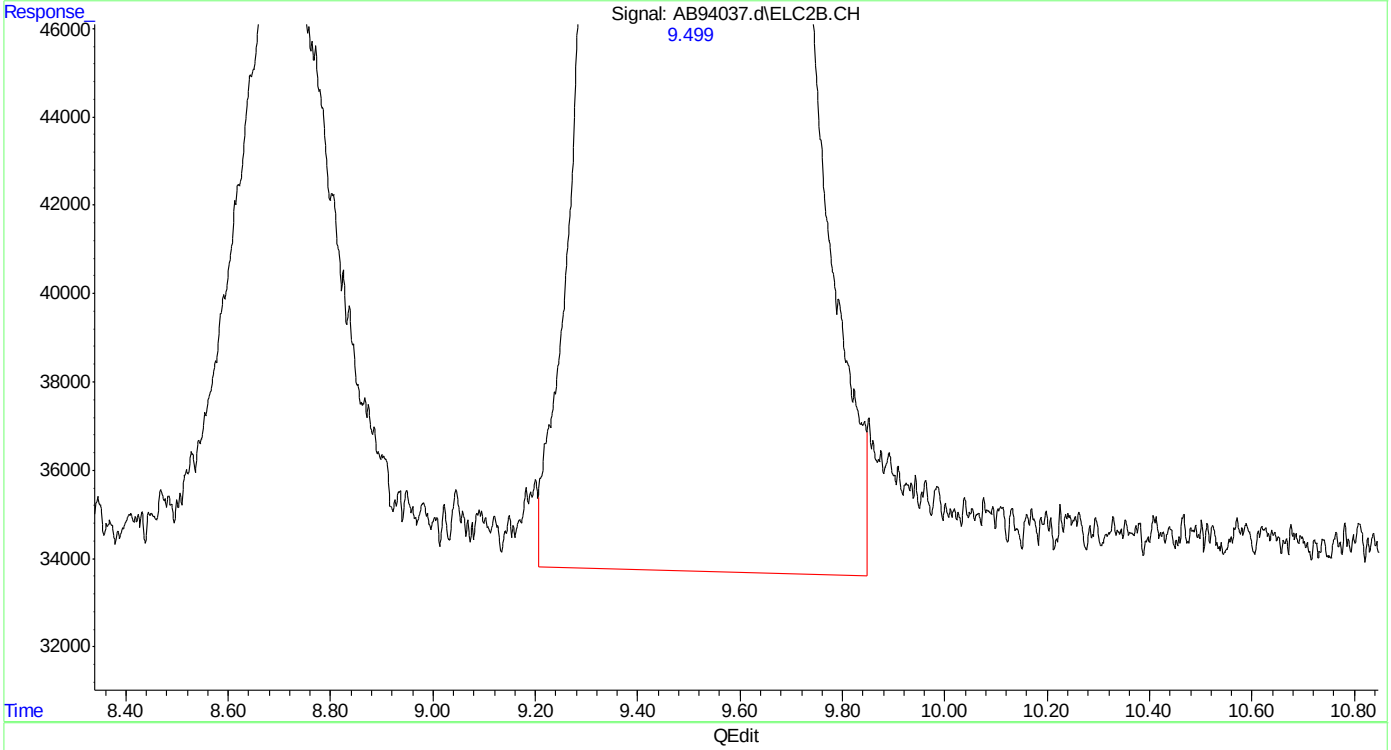
R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 44436691
Conc: 46.38 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94037.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 10:52:21
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 11:29:55 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
9.501min 51.041 ppb
response 25747675

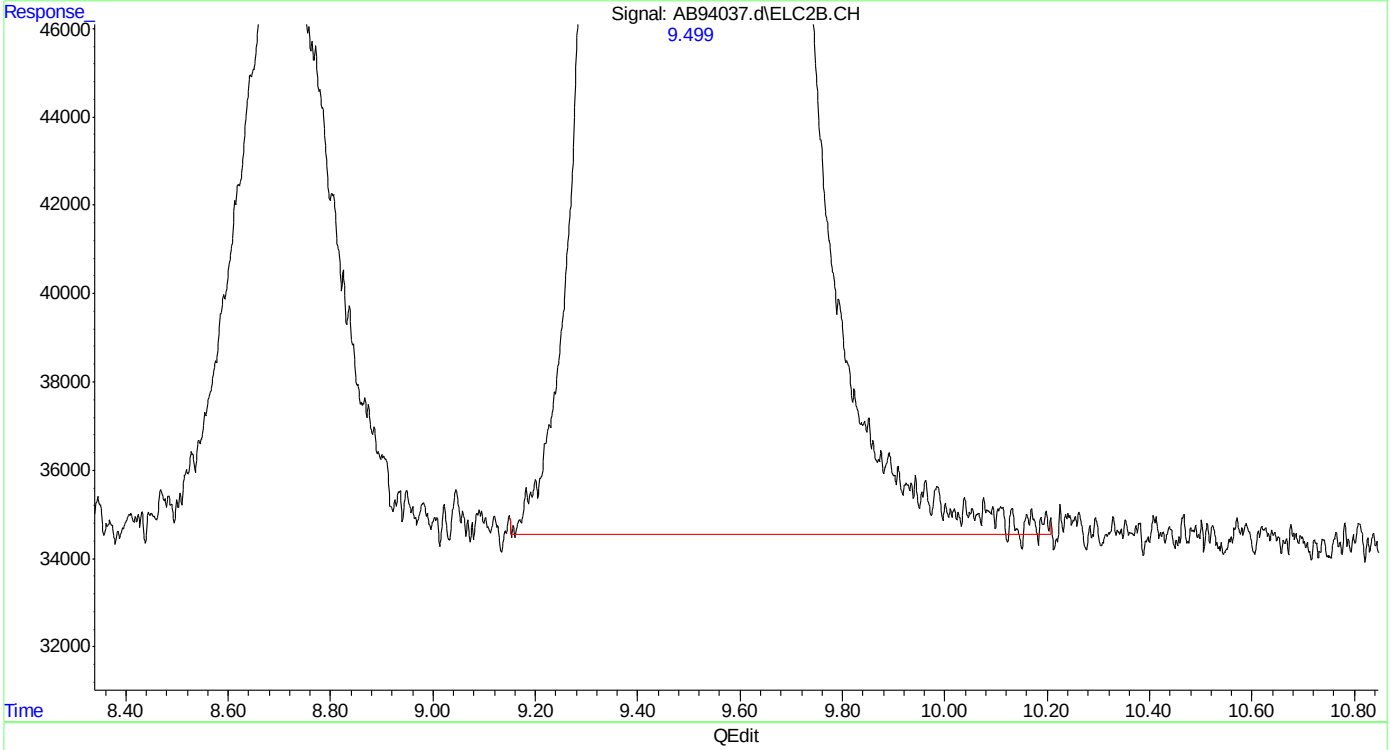
(+) = Expected Retention Time
ab160512vph.M Thu May 12 11:30:51 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94037.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 10:52:21
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 11:29:55 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
9.499min 50.767 ppb m
response 25609443

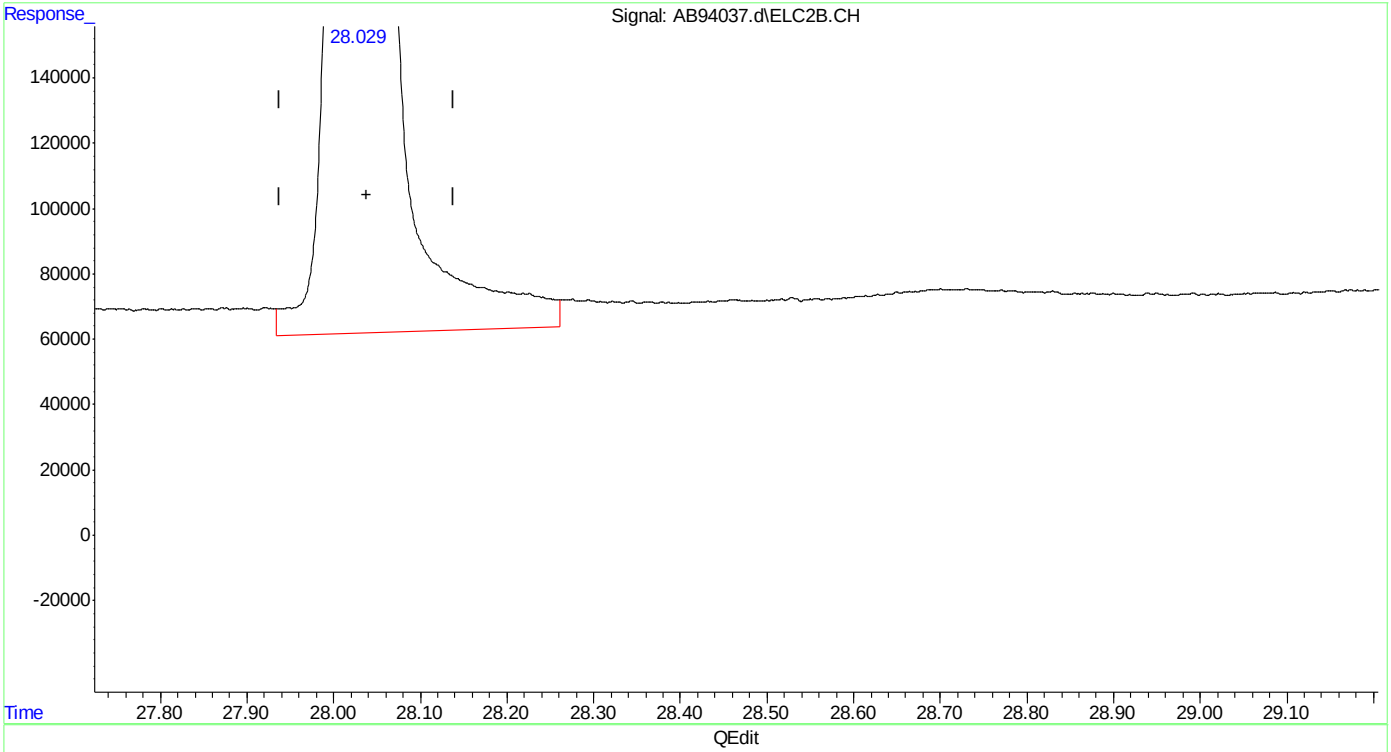
(+) = Expected Retention Time
ab160512vph.M Thu May 12 11:30:56 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94037.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 10:52:21
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26234,gab5168,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 11:29:55 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.030min 47.363 ppb

response 34239007

(+) = Expected Retention Time

ab160512vph.M Thu May 12 11:31:04 2016

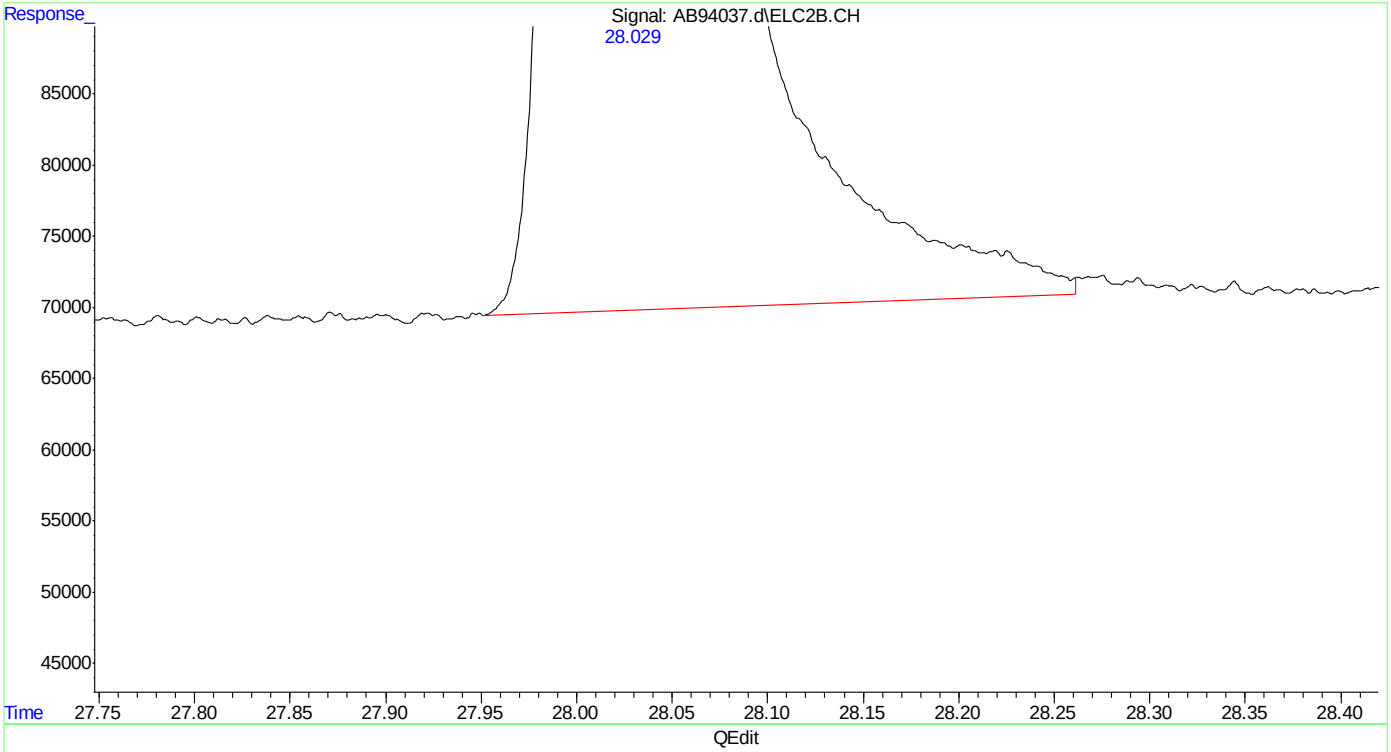
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94037.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 10:52:21
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 12 11:29:55 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.029min 45.285 ppb m
response 32737046

(+) = Expected Retention Time
ab160512vph.M Thu May 12 11:31:10 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/17/16 09:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 08:02:49 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.134	20421338	46.398	ppb	m
Spiked Amount 50.000		Recovery = 92.80%			
6) s 2,3,4-trifluorotoluene	20.191	18513492	45.160	ppb	m
Spiked Amount 50.000		Recovery = 90.32%			
16) s fluorobenzene #2	15.133	38101227	45.238	ppb	m
Spiked Amount 50.000		Recovery = 90.48%			
18) s 2,3,4-trifluorotoluen...	20.190	20042881	42.930	ppb	m
Spiked Amount 50.000		Recovery = 85.86%			
Target Compounds					
1) h rt5.5-7	6.420	16326950	40.664	ppb	m
2) h rt7/10	8.720	18599436	46.324	ppb	m
3) h rt10/13	13.870	22764344	56.697	ppb	m
8) h rt20/25	21.870	26476555	42.261	ppb	m
10) h decane	24.200	27070693	43.209	ppb	m
11) h butylcyclohexane	25.240	29049533	46.368	ppb	m
14) mtbe #2	9.495	24920183	49.400	ppb	m
15) benzene #2	14.630	59248723	45.518	ppb	m
17) toluene #2	19.092	51286129	44.859	ppb	m
19) ethylbenzene #2	22.189	42215118	45.596	ppb	
20) m,p-xylene #2	22.332	101821989	95.993	ppb	
21) o-xylene #2	23.138	42359177	45.346	ppb	
22) t 1,3,5-trimethylbenzen...	24.570	54957734	42.064	ppb	
23) 1,2,4-trimethylbenzen...	25.089	42398713	44.302	ppb	
24) naphthalene #2	28.032	32146304	44.468	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	42428067	44.286	ppb	m

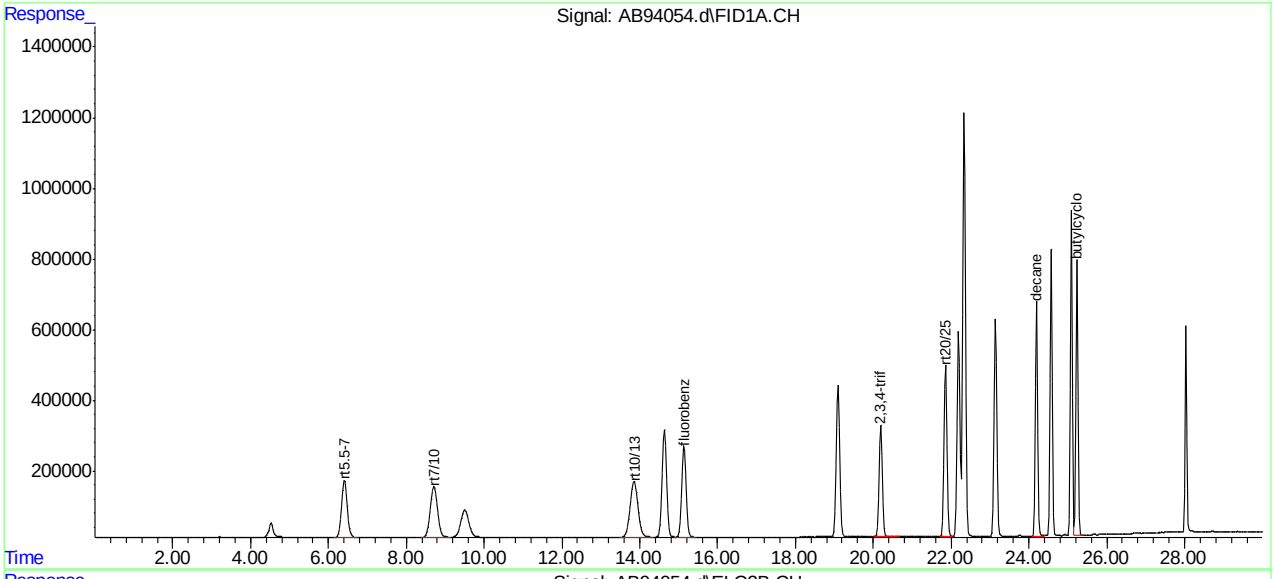
(f)=RT Delta > 1/2 Window (m)=manual int.

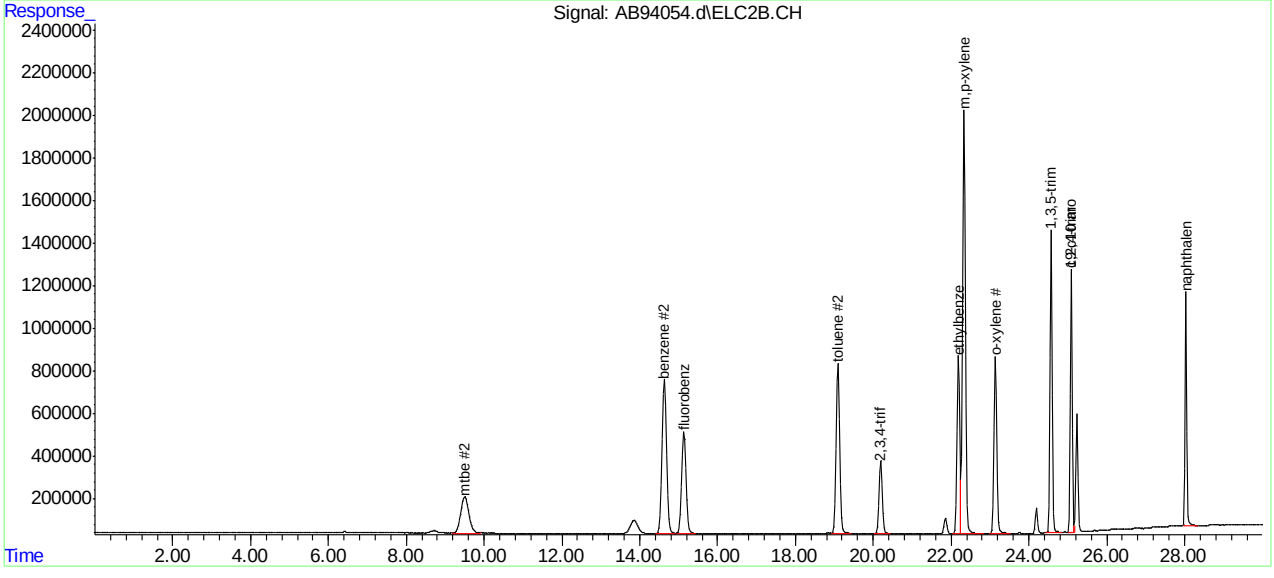
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 08:02:49 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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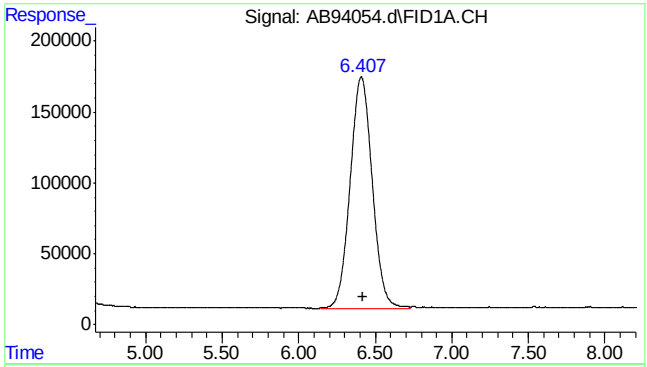
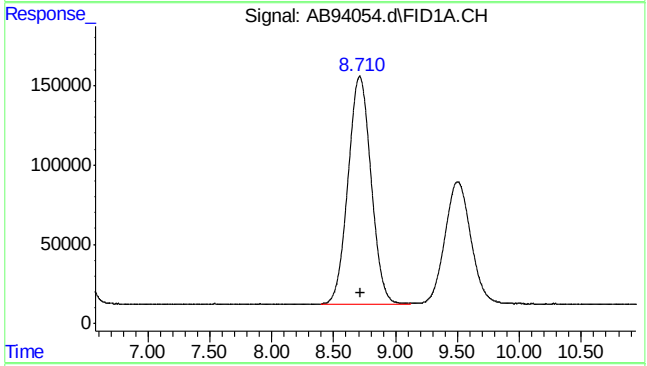


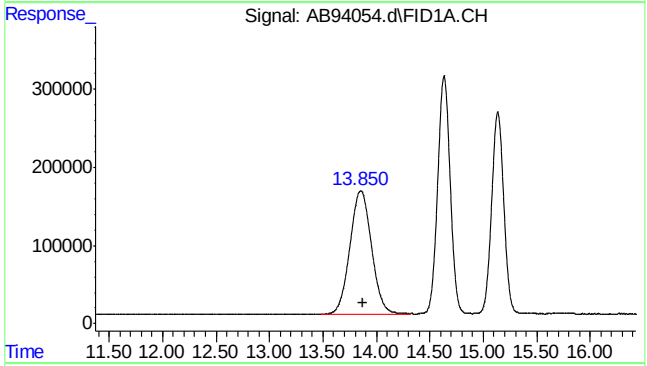
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16326950
Conc: 40.66 ppb m



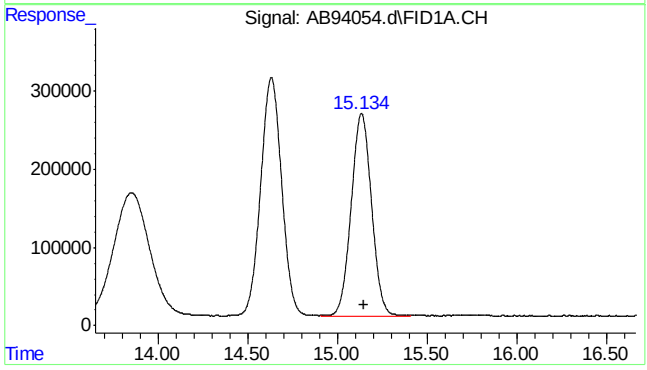
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18599436
Conc: 46.32 ppb m



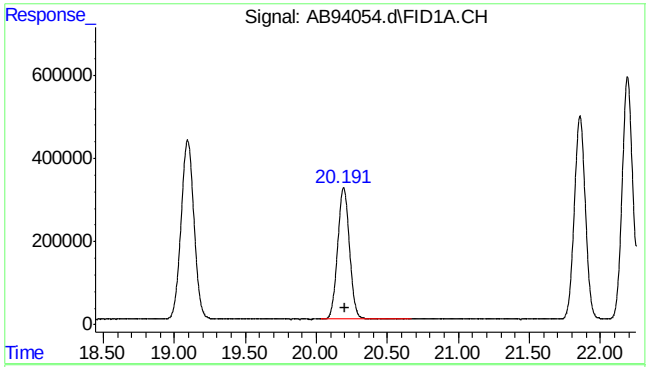
#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 22764344
Conc: 56.70 ppb m



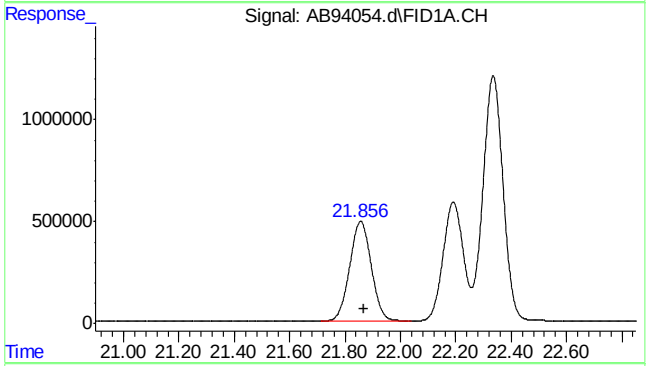
#4 fluorobenzene

R.T.: 15.134 min
Delta R.T.: -0.017 min
Response: 20421338
Conc: 46.40 ppb m



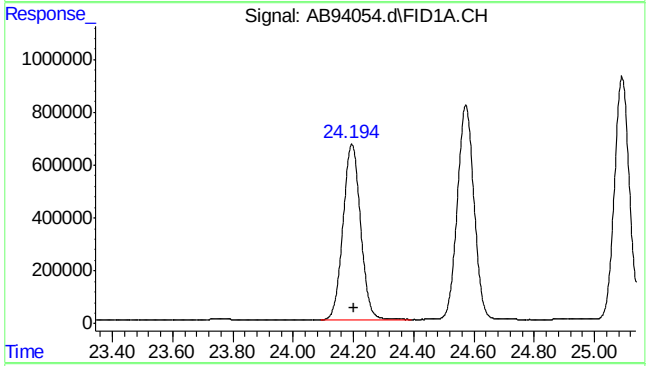
#6 2,3,4-trifluorotoluene

R.T.: 20.191 min
Delta R.T.: -0.014 min
Response: 18513492
Conc: 45.16 ppb m



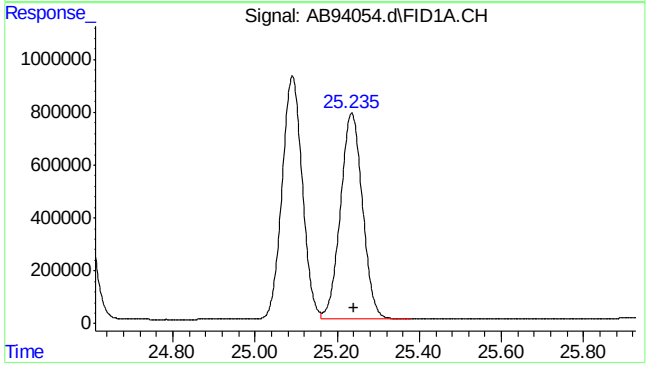
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26476555
Conc: 42.26 ppb m



#10 decane

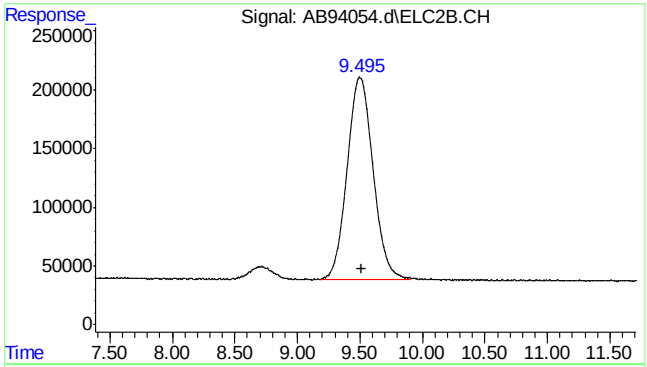
R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 27070693
Conc: 43.21 ppb m



#11 butylcyclohexane

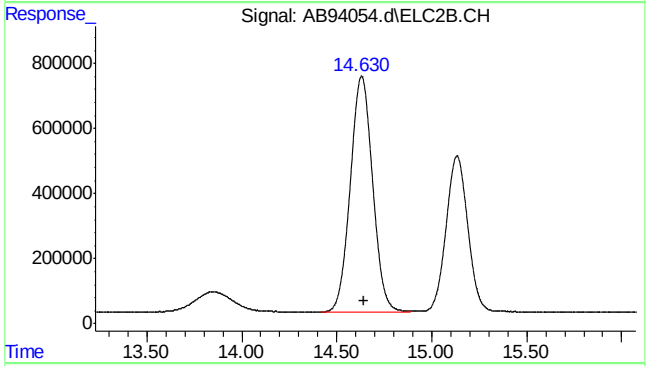
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29049533
Conc: 46.37 ppb m

SGS ACCUTEST MC45816A



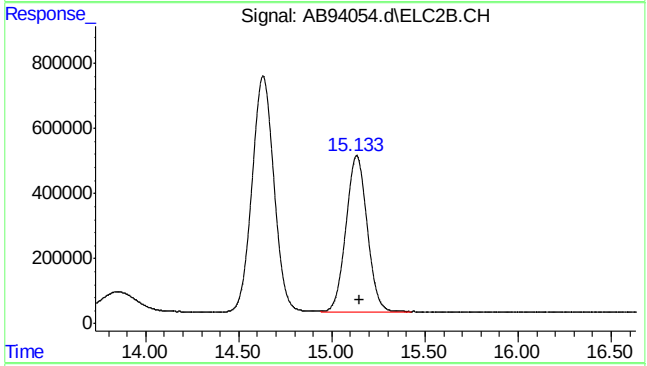
#14 mtbe #2

R.T.: 9.495 min
Delta R.T.: -0.015 min
Response: 24920183
Conc: 49.40 ppb m



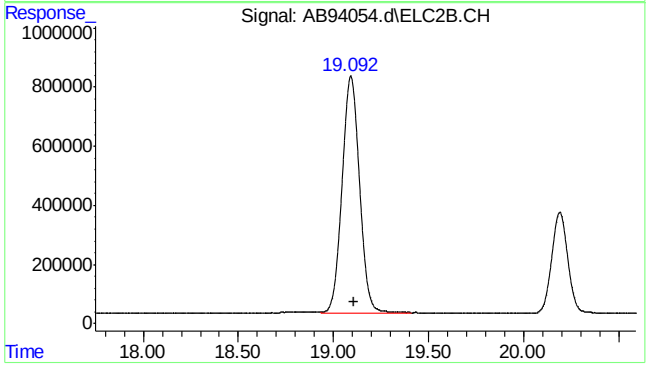
#15 benzene #2

R.T.: 14.630 min
Delta R.T.: -0.016 min
Response: 59248723
Conc: 45.52 ppb m



#16 fluorobenzene #2

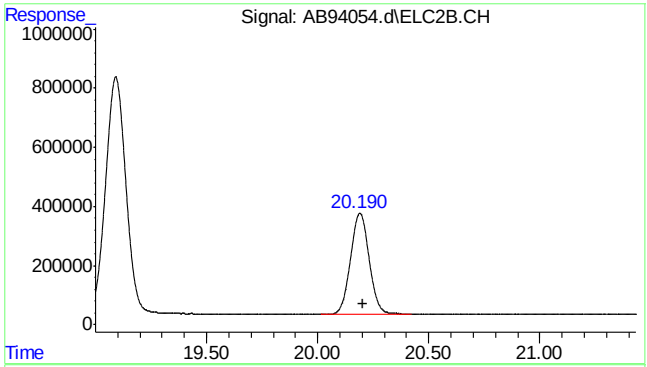
R.T.: 15.133 min
Delta R.T.: -0.015 min
Response: 38101227
Conc: 45.24 ppb m



#17 toluene #2

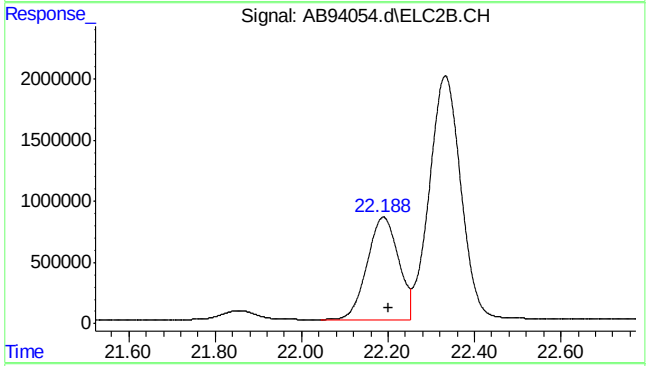
R.T.: 19.092 min
Delta R.T.: -0.014 min
Response: 51286129
Conc: 44.86 ppb m

SGS ACCUTEST MC45816A



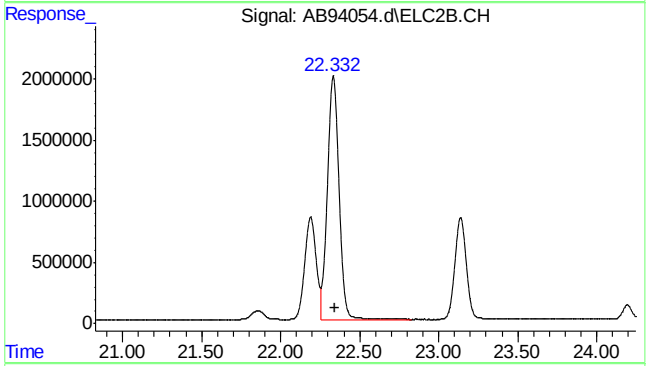
#18 2,3,4-trifluorotoluene #2

R.T.: 20.190 min
Delta R.T.: -0.013 min
Response: 20042881
Conc: 42.93 ppb m



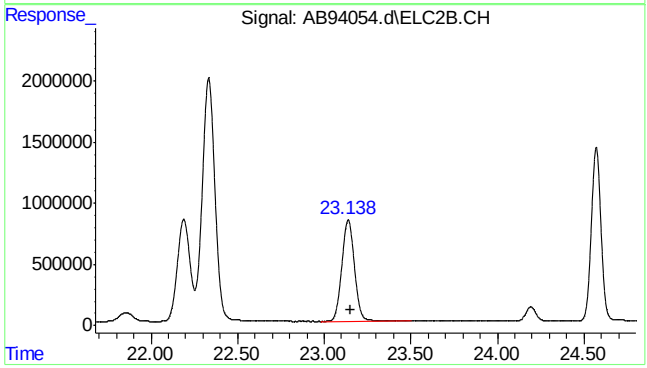
#19 ethylbenzene #2

R.T.: 22.189 min
Delta R.T.: -0.012 min
Response: 42215118
Conc: 45.60 ppb



#20 m,p-xylene #2

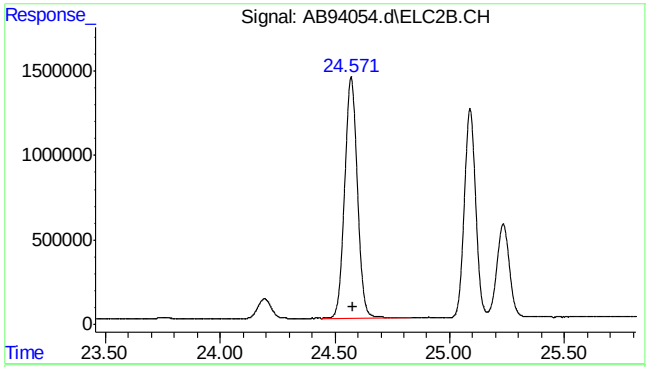
R.T.: 22.332 min
Delta R.T.: -0.012 min
Response: 101821989
Conc: 95.99 ppb



#21 o-xylene #2

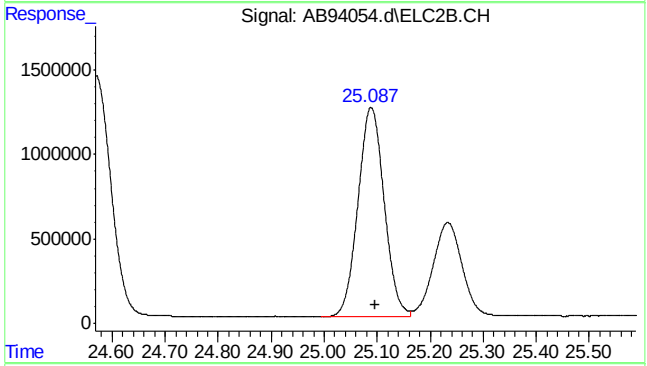
R.T.: 23.138 min
Delta R.T.: -0.011 min
Response: 42359177
Conc: 45.35 ppb

SGS ACCUTEST MC45816A



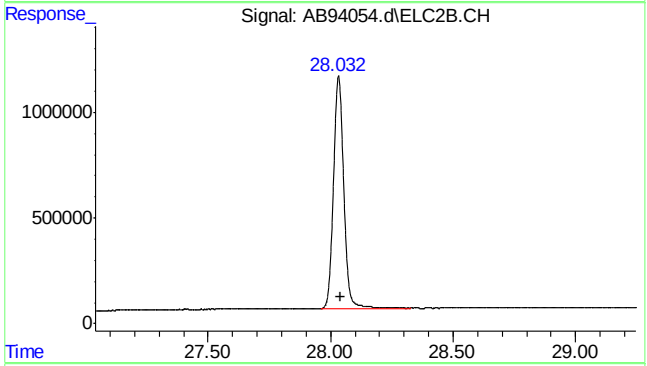
#22 1,3,5-trimethylbenzene #2

R.T.: 24.570 min
Delta R.T.: -0.009 min
Response: 54957734
Conc: 42.06 ppb



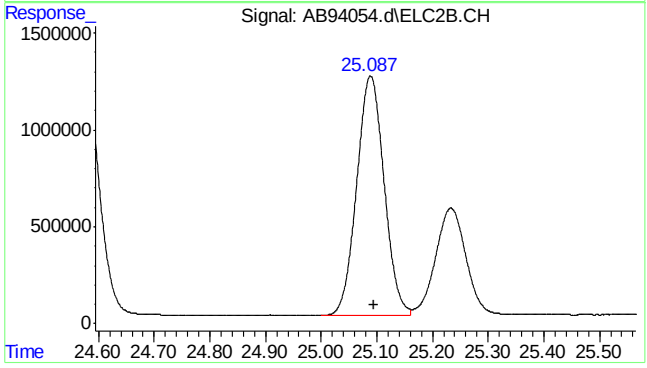
#23 1,2,4-trimethylbenzene #2

R.T.: 25.089 min
Delta R.T.: -0.007 min
Response: 42398713
Conc: 44.30 ppb



#24 naphthalene #2

R.T.: 28.032 min
Delta R.T.: -0.006 min
Response: 32146304
Conc: 44.47 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 42428067
Conc: 44.29 ppb m

SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(4) fluorobenzene (s)
15.135min 46.543 ppb
response 20485459

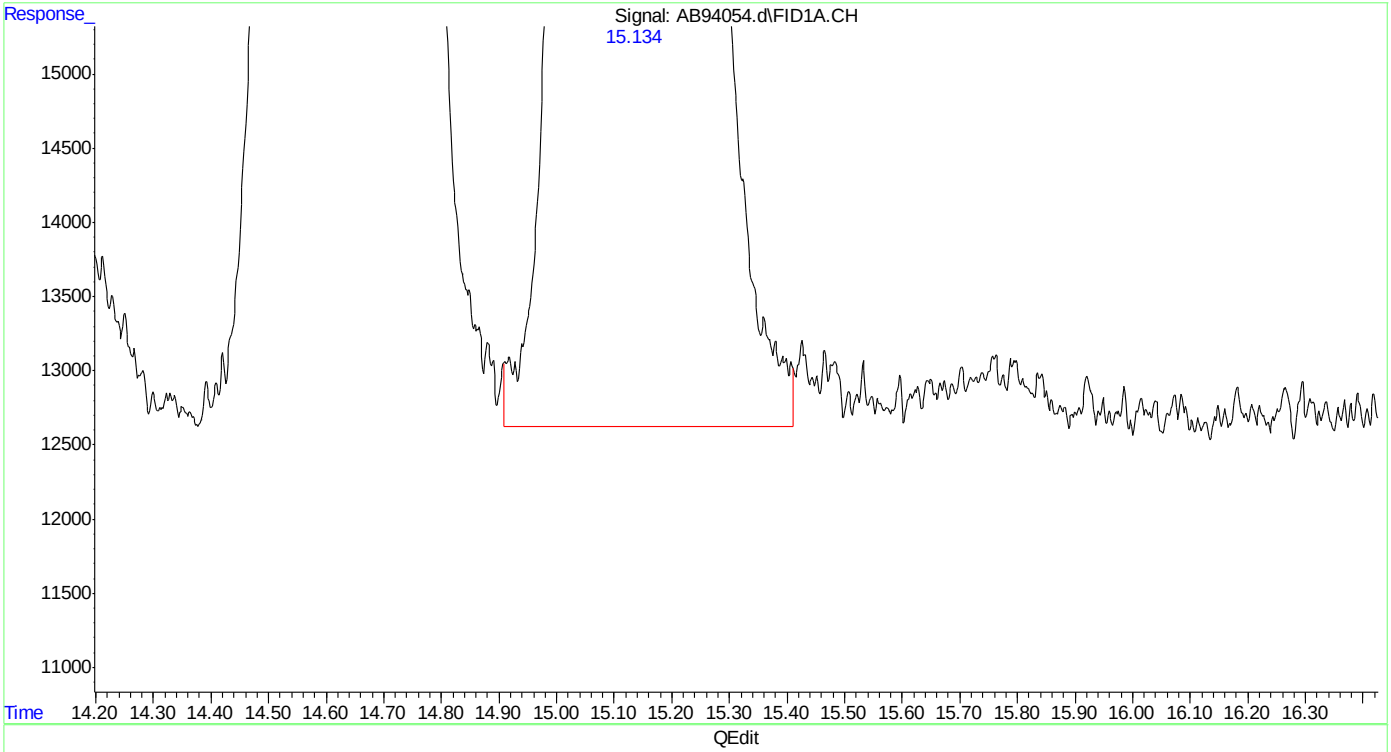
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:00:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
15.134min 46.398 ppb m
response 20421338

(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:00:13 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(6) 2,3,4-trifluorotoluene (s)
20.192min 45.143 ppb
response 18506340

(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:00:18 2016

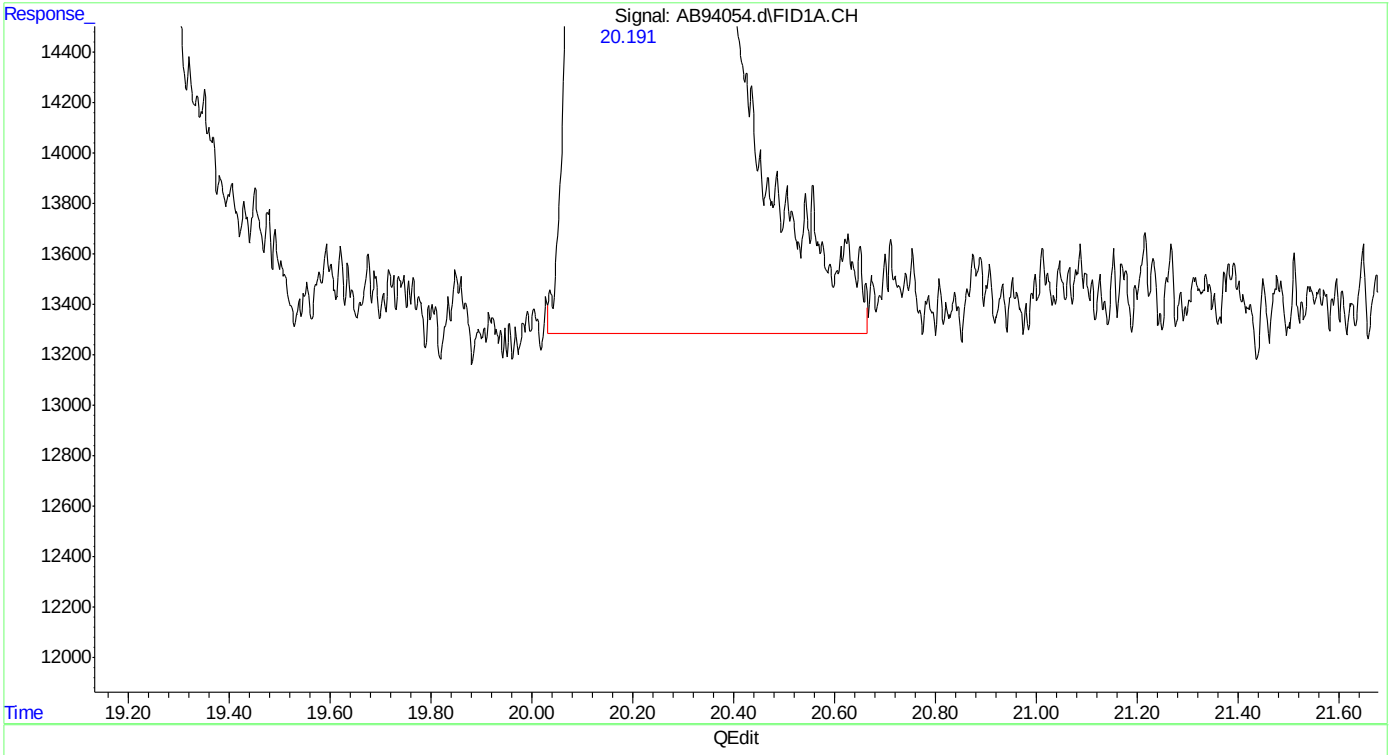
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) 2,3,4-trifluorotoluene (s)
20.191min 45.160 ppb m
response 18513492

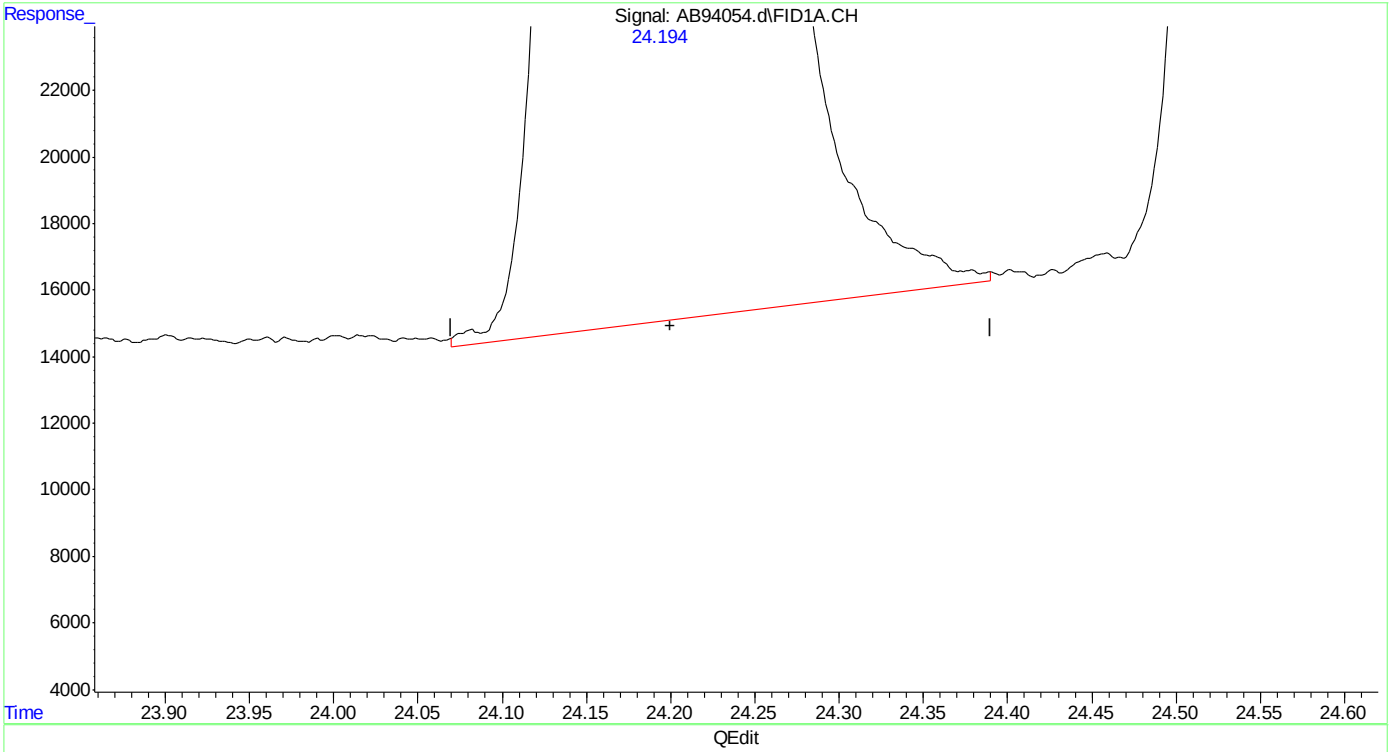
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:00:24 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 21:40:39
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26234,gab5168,,,,5,1
ALS Vial  : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(10) decane (h)

24.200min 42.961 ppb

response 26915372

(+) = Expected Retention Time

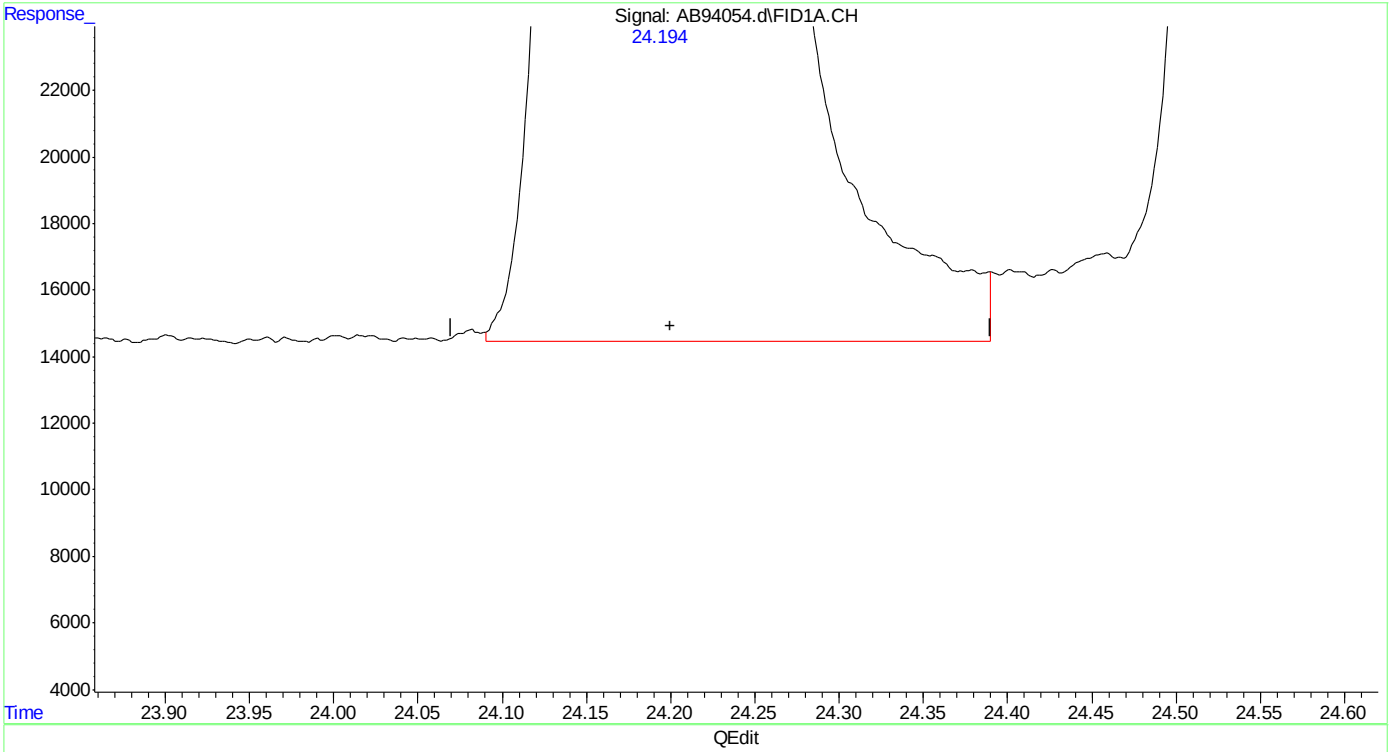
ab160512vph.M Fri May 13 08:00:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) decane (h)
24.200min 43.209 ppb m
response 27070693

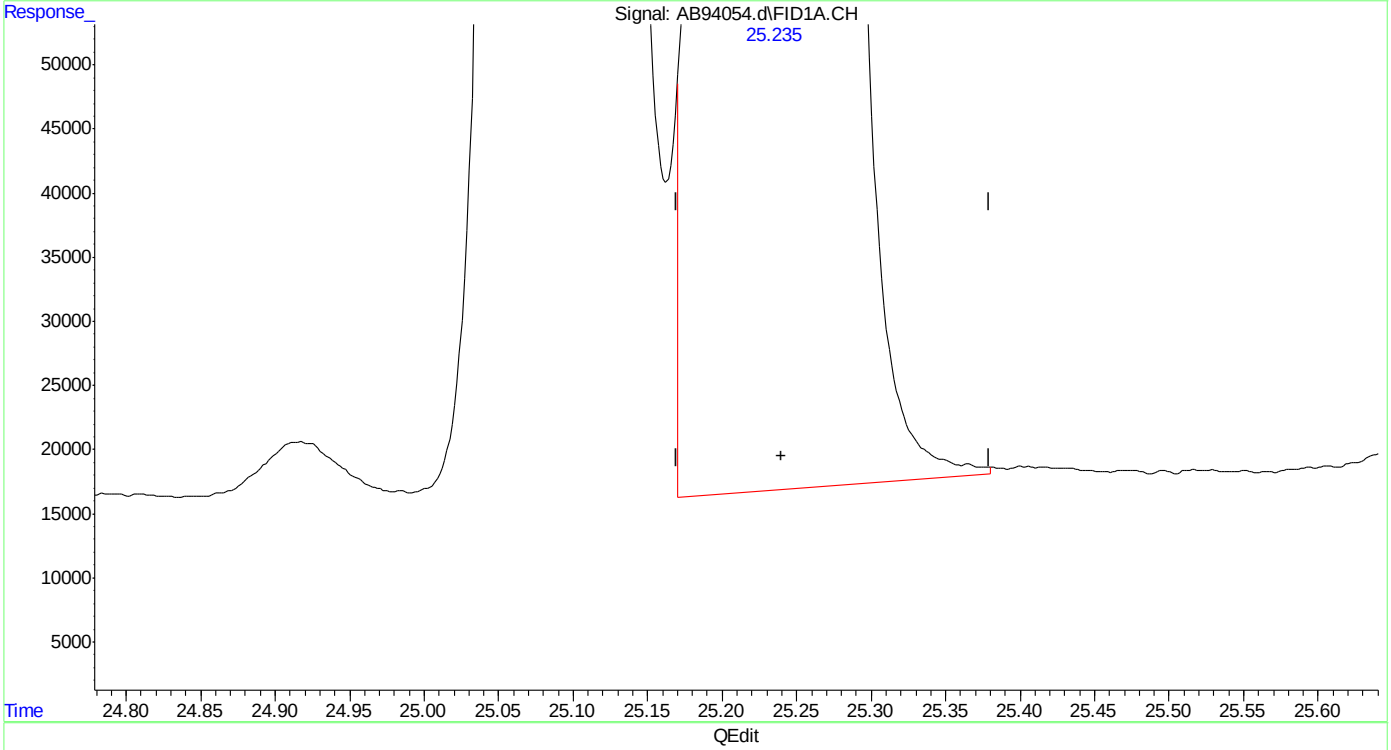
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(11) butylcyclohexane (h)
25.240min 46.313 ppb
response 29015449

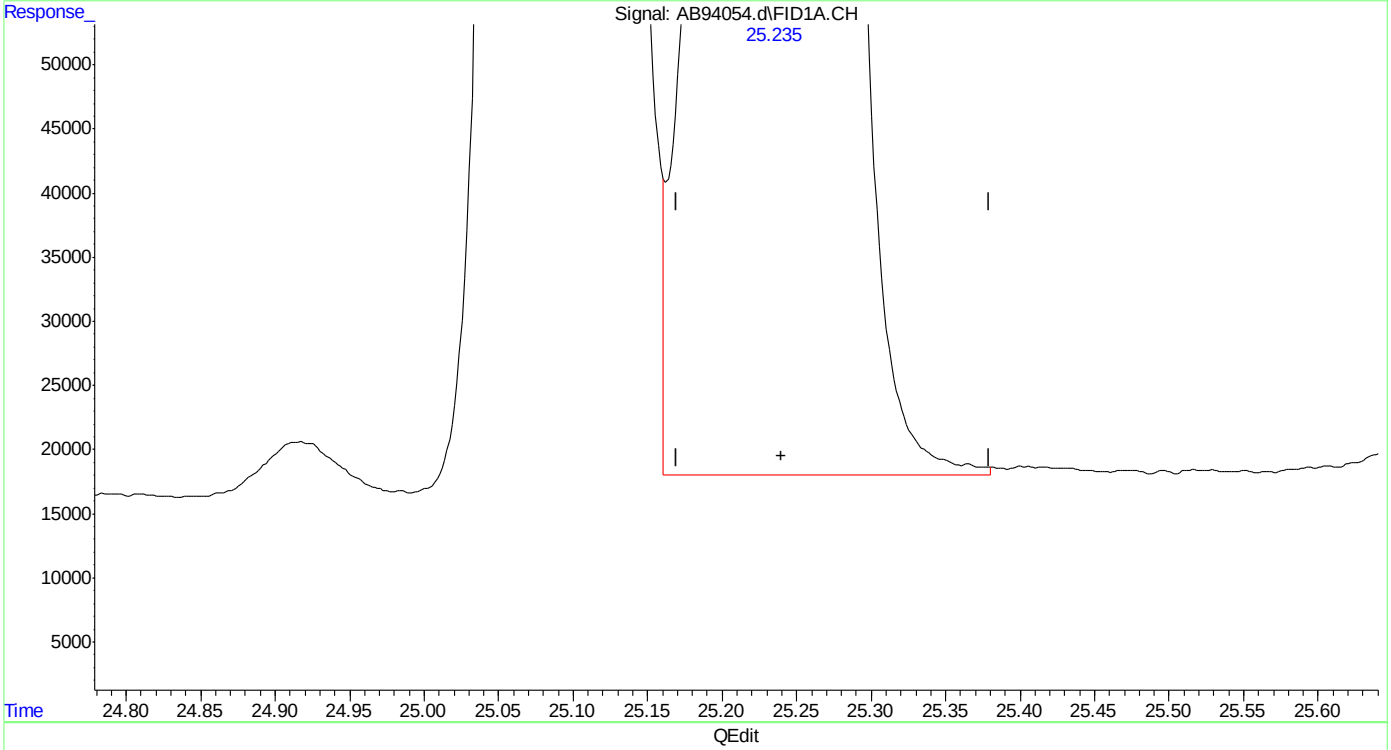
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(11) butylcyclohexane (h)
25.240min 46.368 ppb m
response 29049533

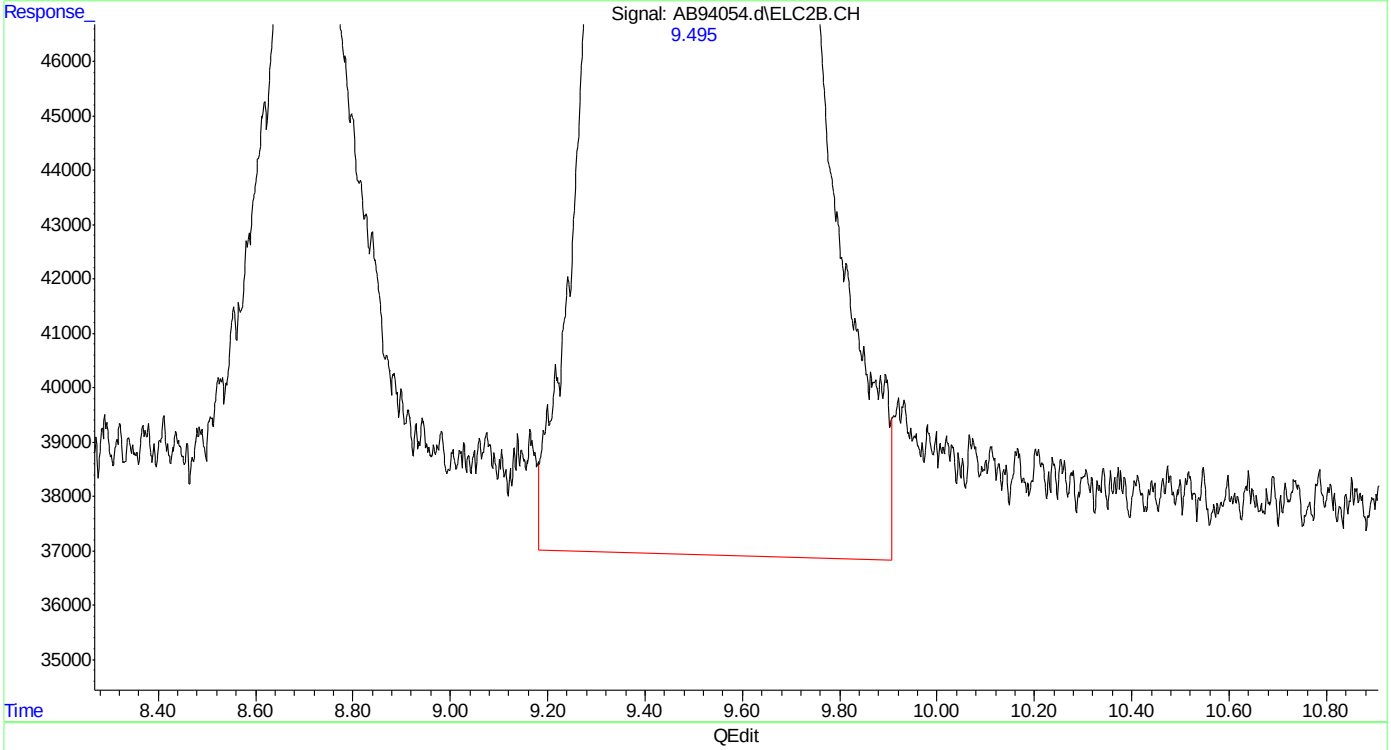
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:01:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
9.498min 50.655 ppb
response 25553024

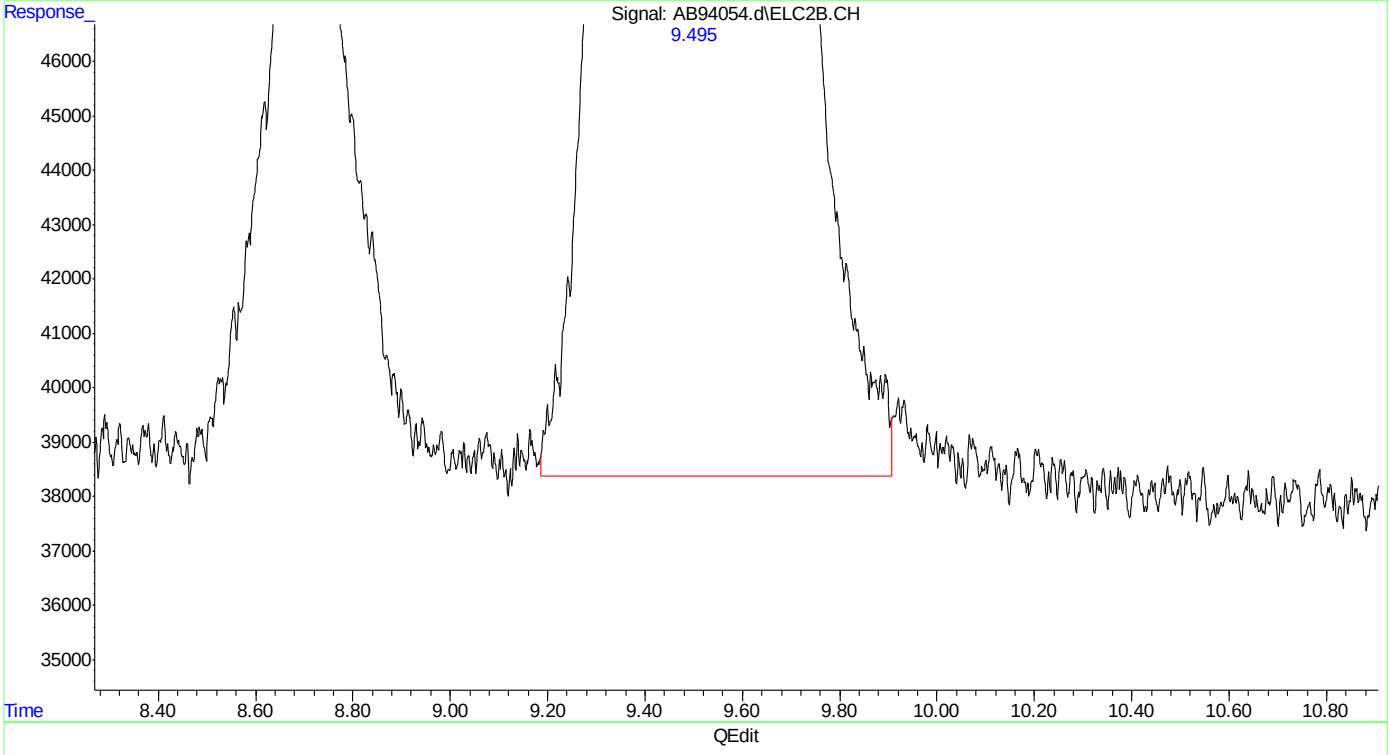
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:01:13 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 21:40:39
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26234,gab5168,,,,5,1
ALS Vial  : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

9.495min 49.400 ppb m

response 24920183

(+) = Expected Retention Time

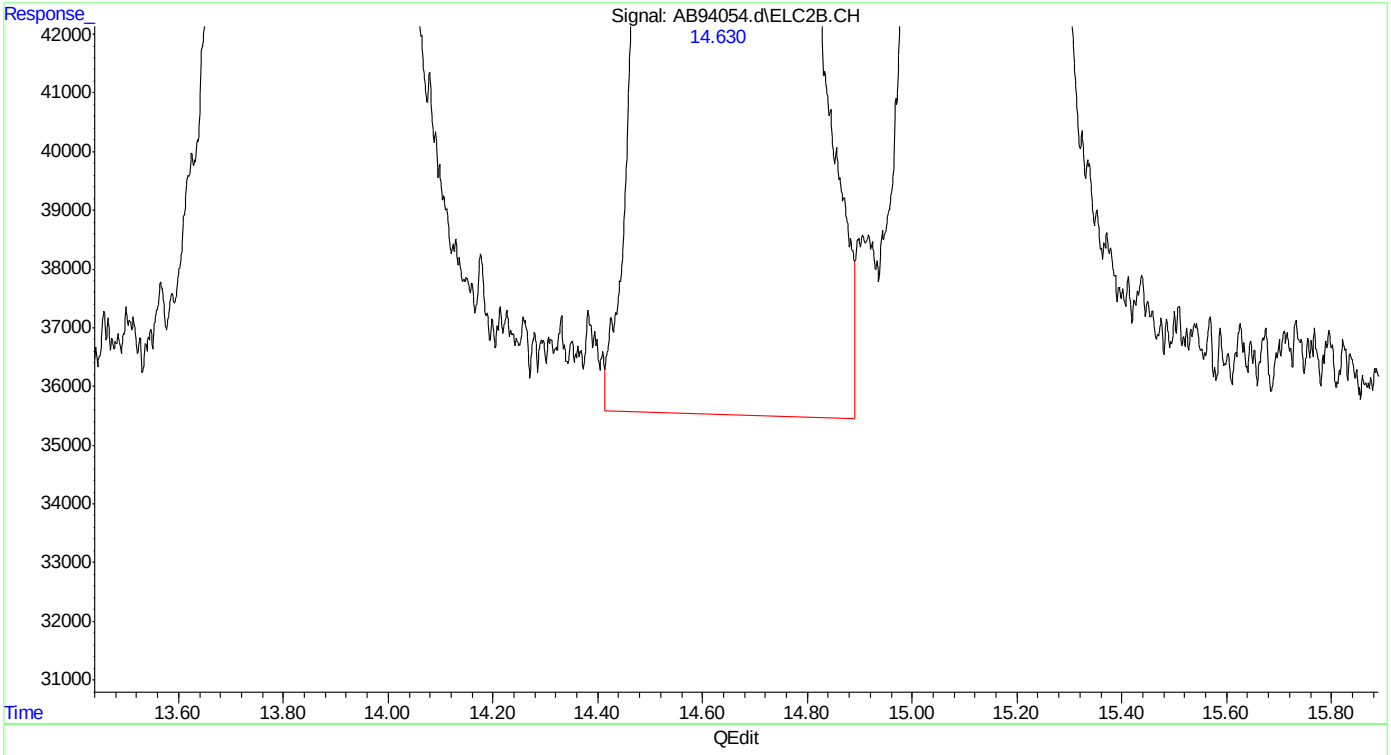
ab160512vph.M Fri May 13 08:01:25 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-May-16, 21:40:39
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26234,gab5168,,,,5,1
ALS Vial  : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(15) benzene #2

14.630min 45.688 ppb

response 59470117

(+) = Expected Retention Time

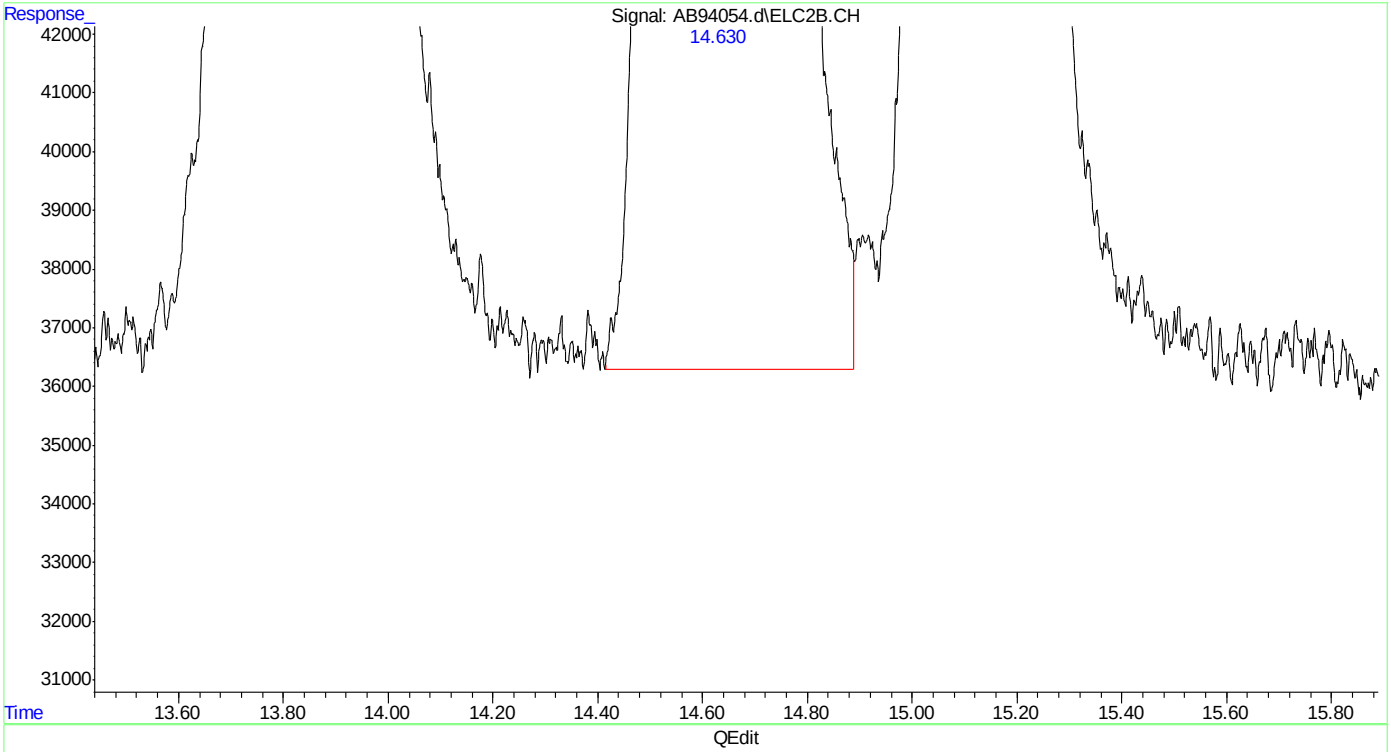
ab160512vph.M Fri May 13 08:01:30 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
14.630min 45.518 ppb m
response 59248723

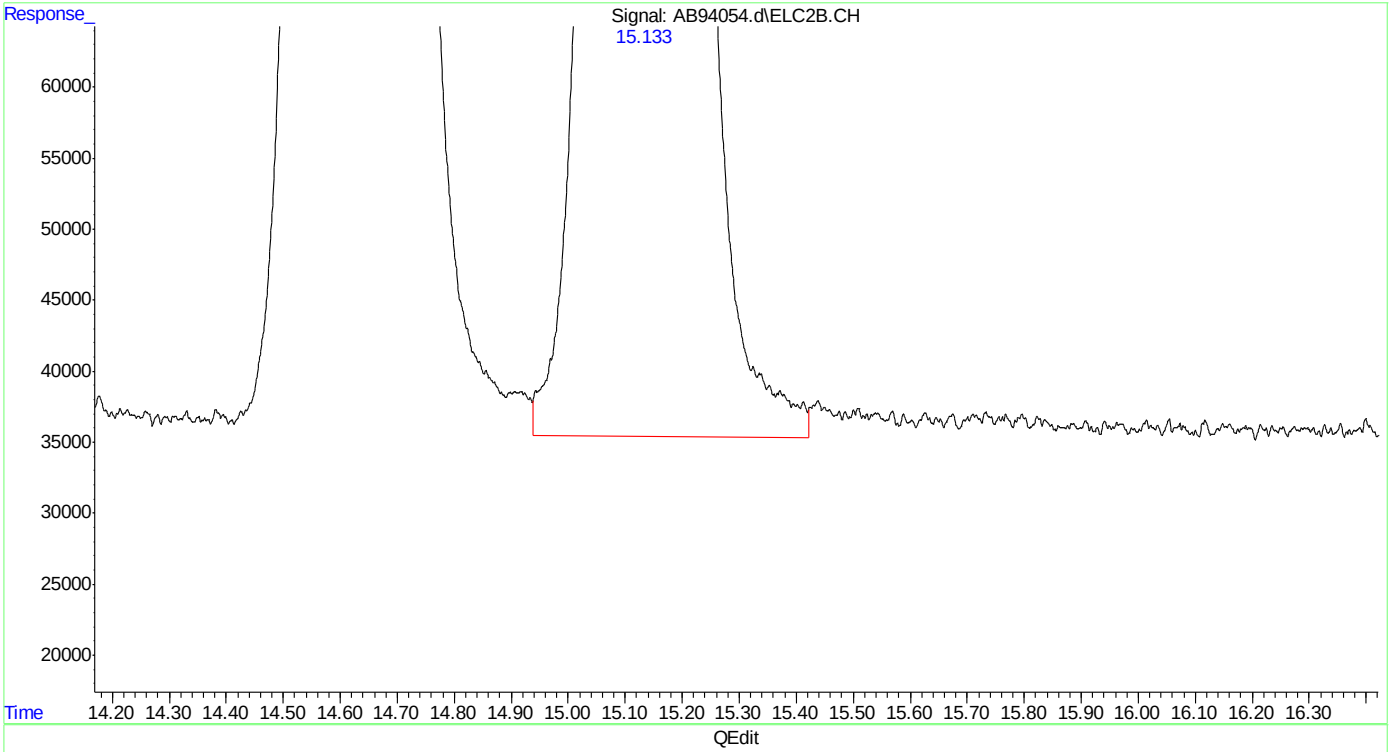
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:01:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) fluorobenzene #2 (s)
15.133min 45.574 ppb
response 38384728

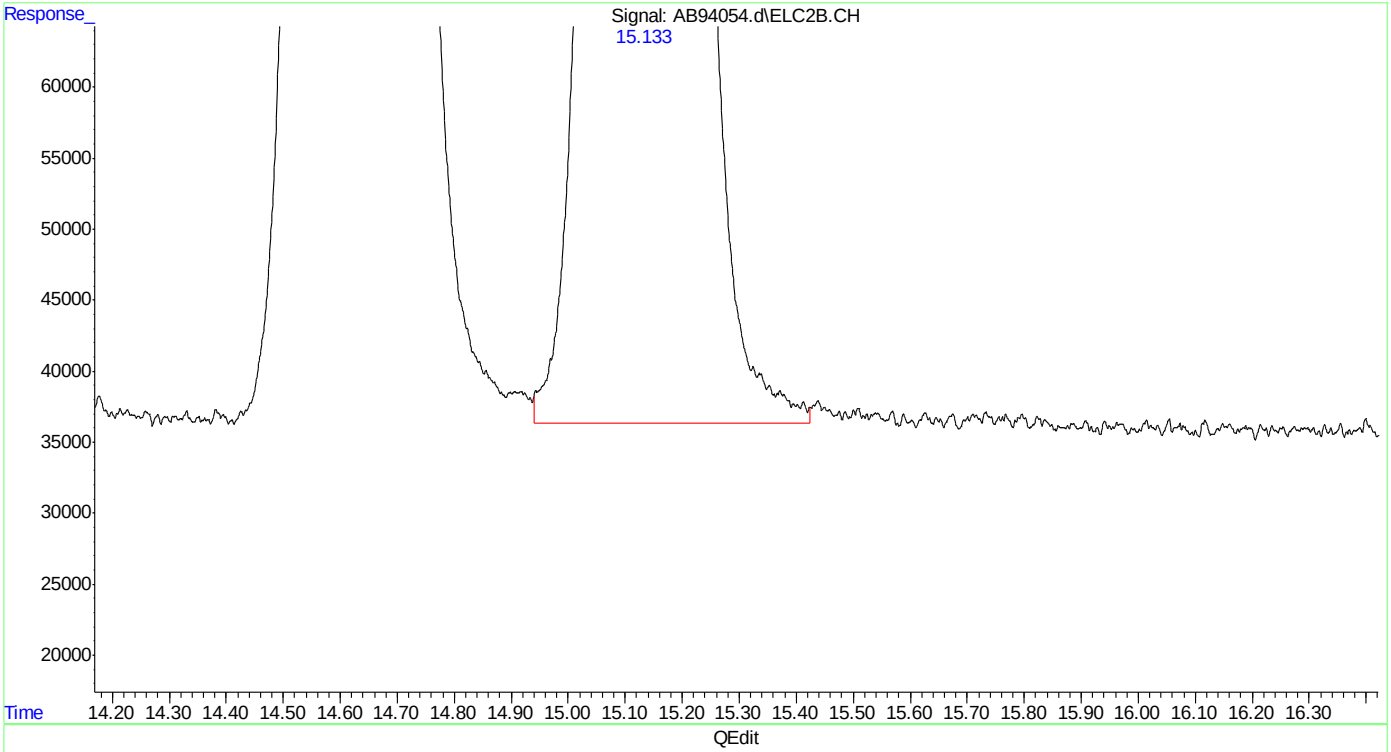
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:01:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) fluorobenzene #2 (s)
15.133min 45.238 ppb m
response 38101227

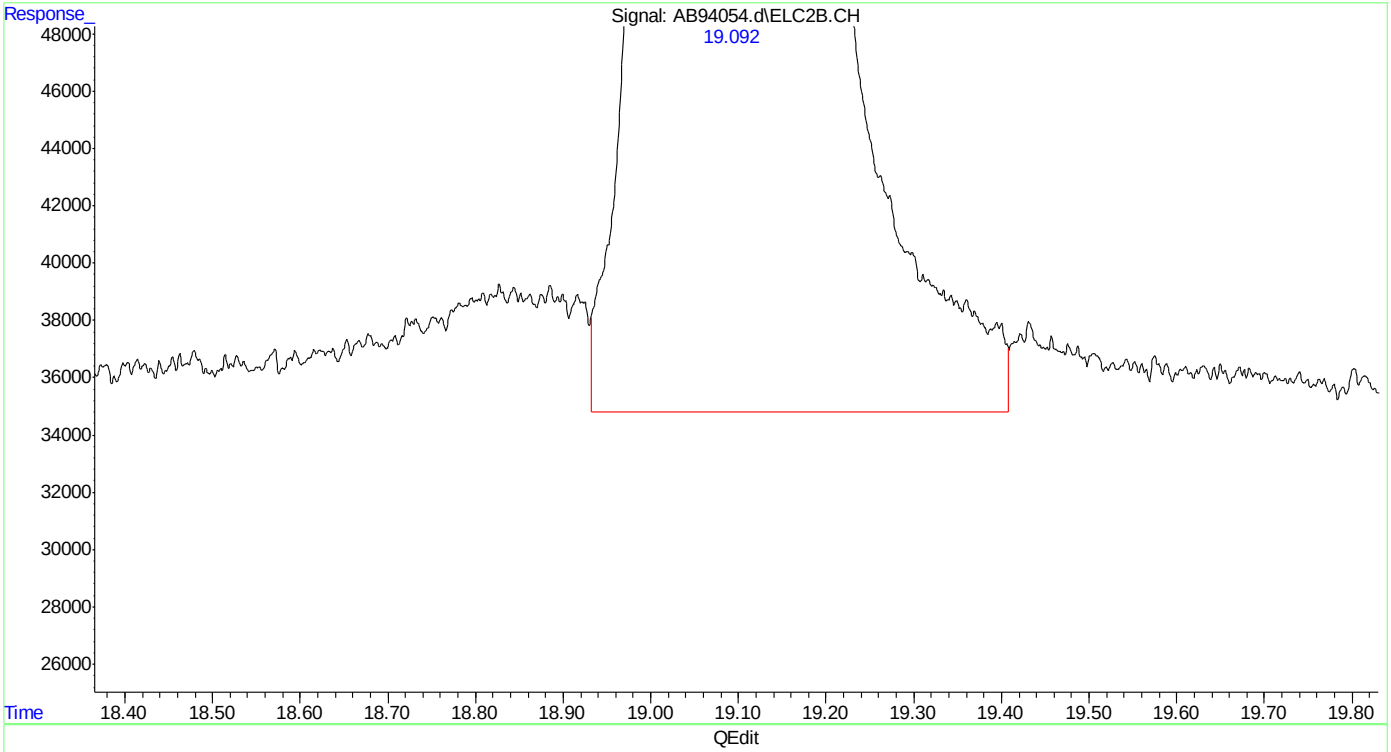
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:01:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
19.091min 45.182 ppb
response 51655743

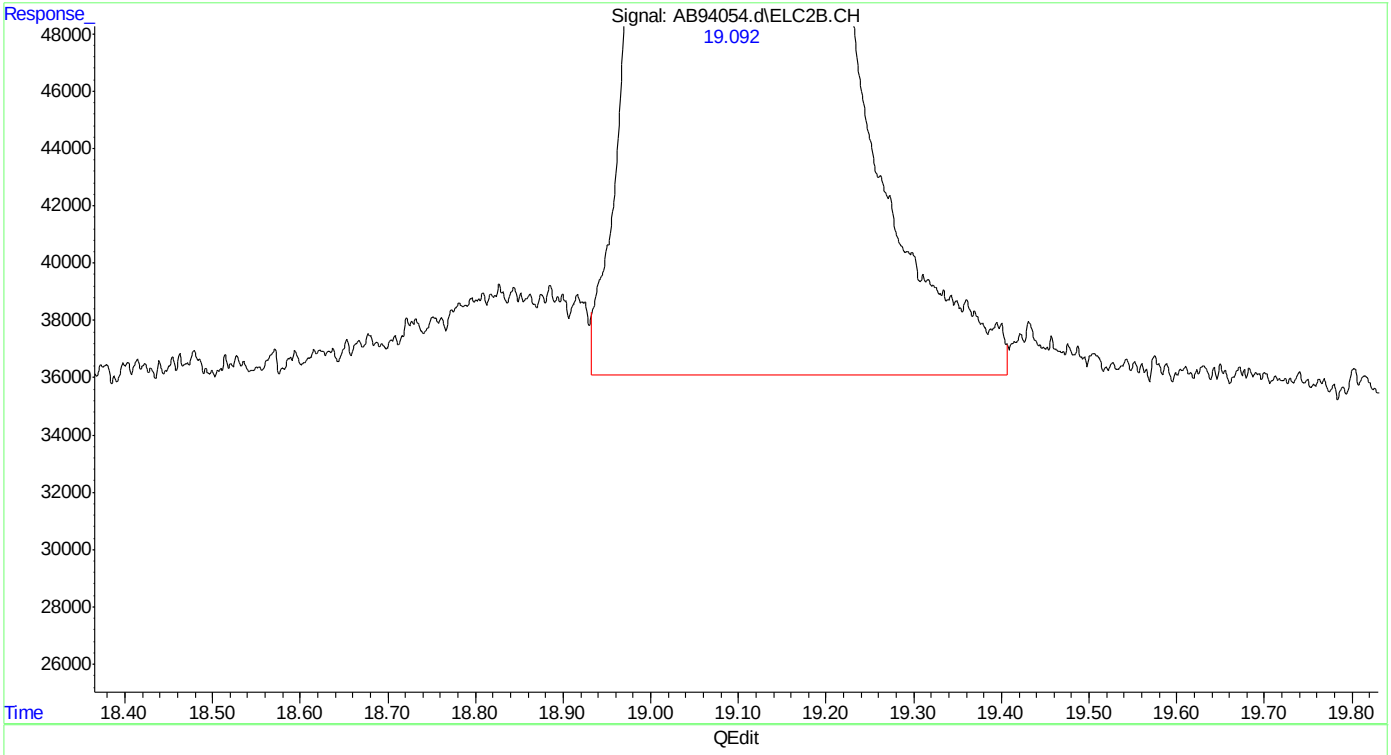
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:01:53 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
19.092min 44.859 ppb m
response 51286129

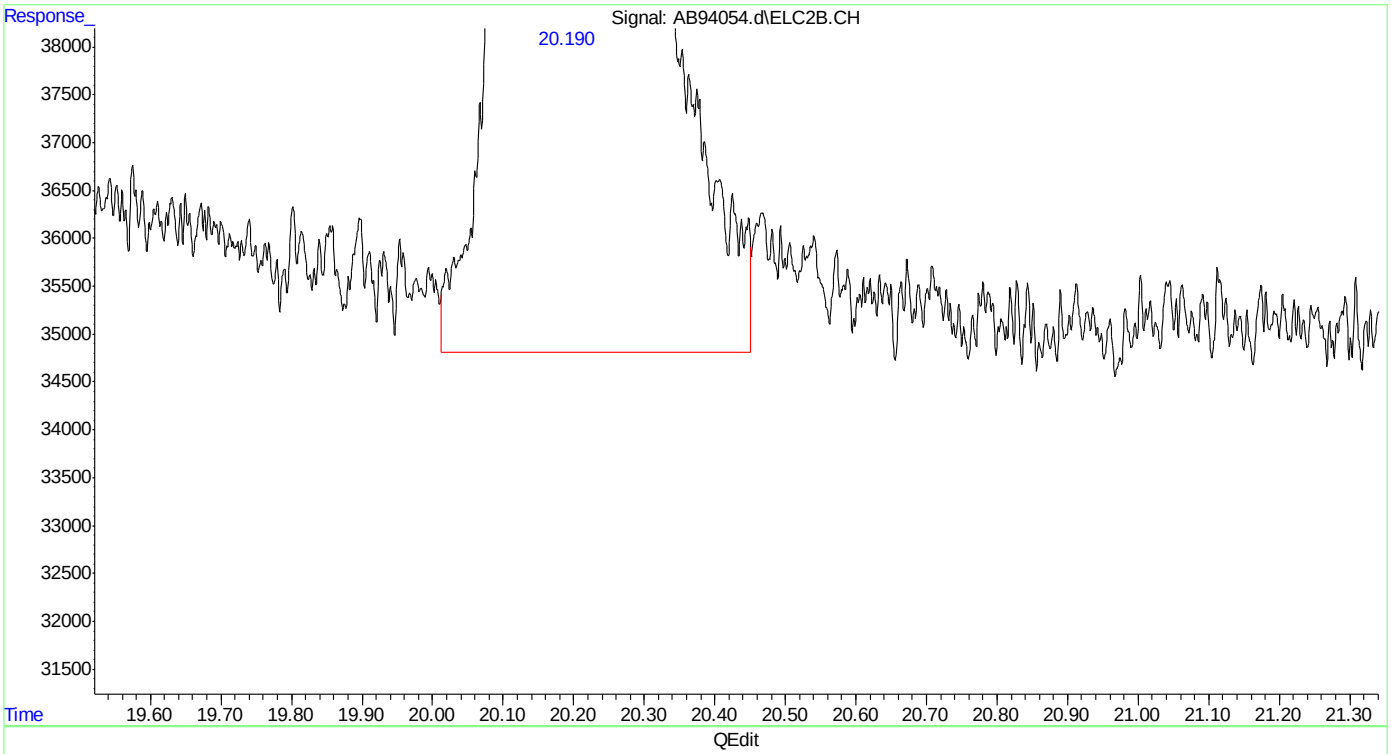
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:02:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
20.190min 43.246 ppb
response 20190492

(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:02:09 2016

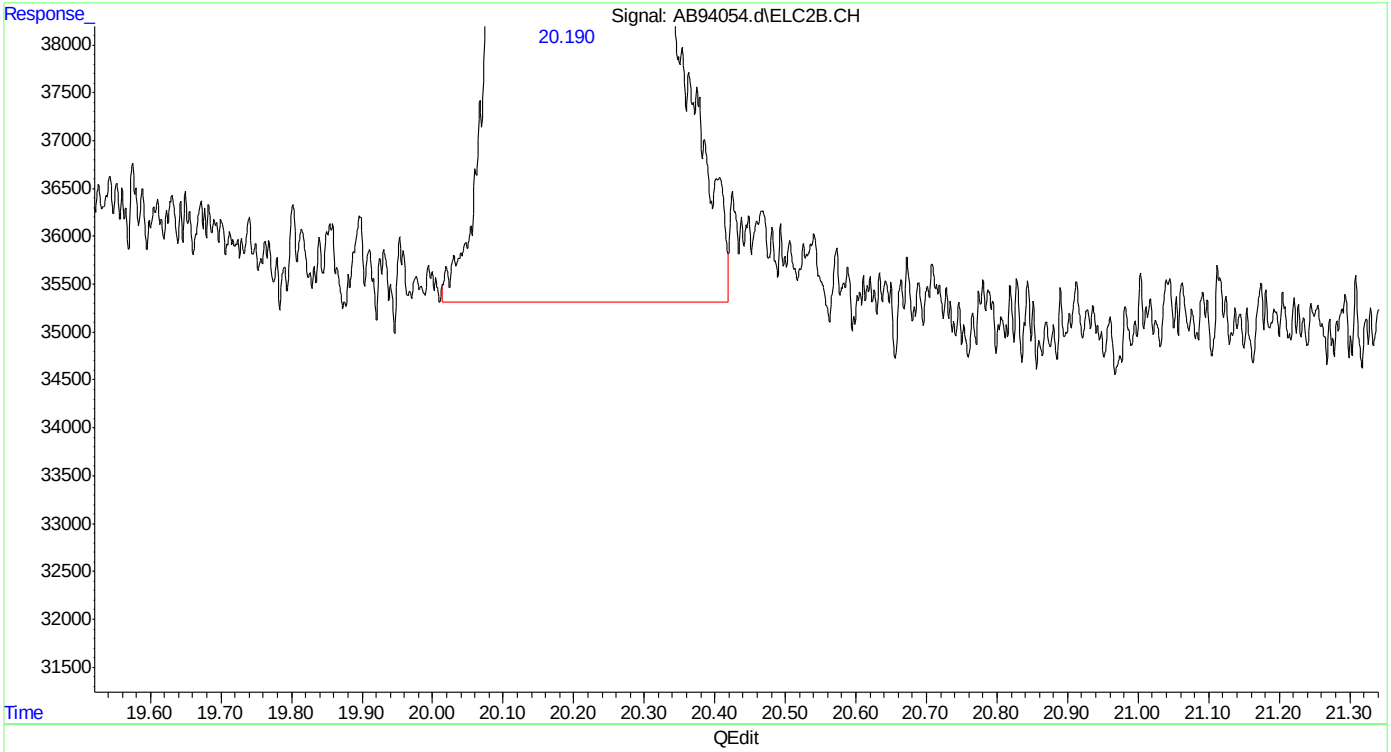
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
20.190min 42.930 ppb m
response 20042881

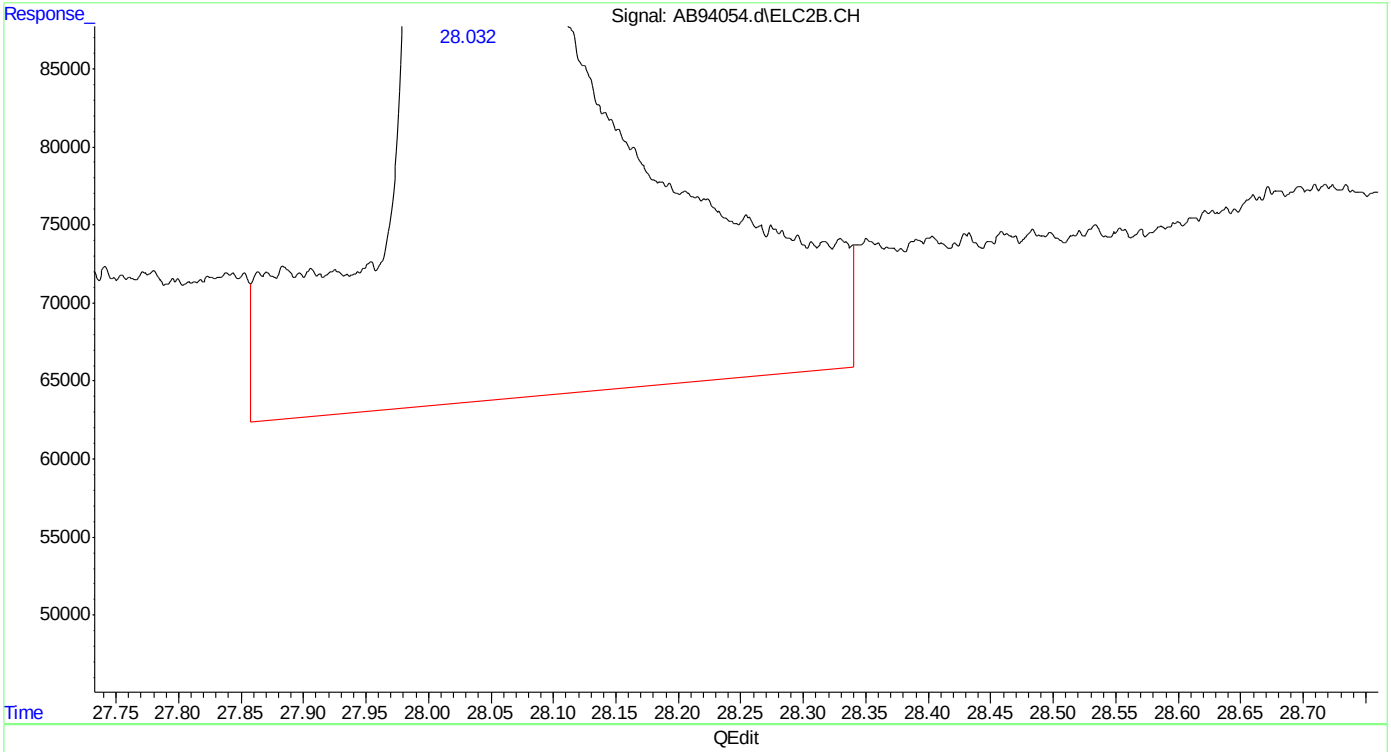
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:02:15 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.033min 47.823 ppb
response 34571893

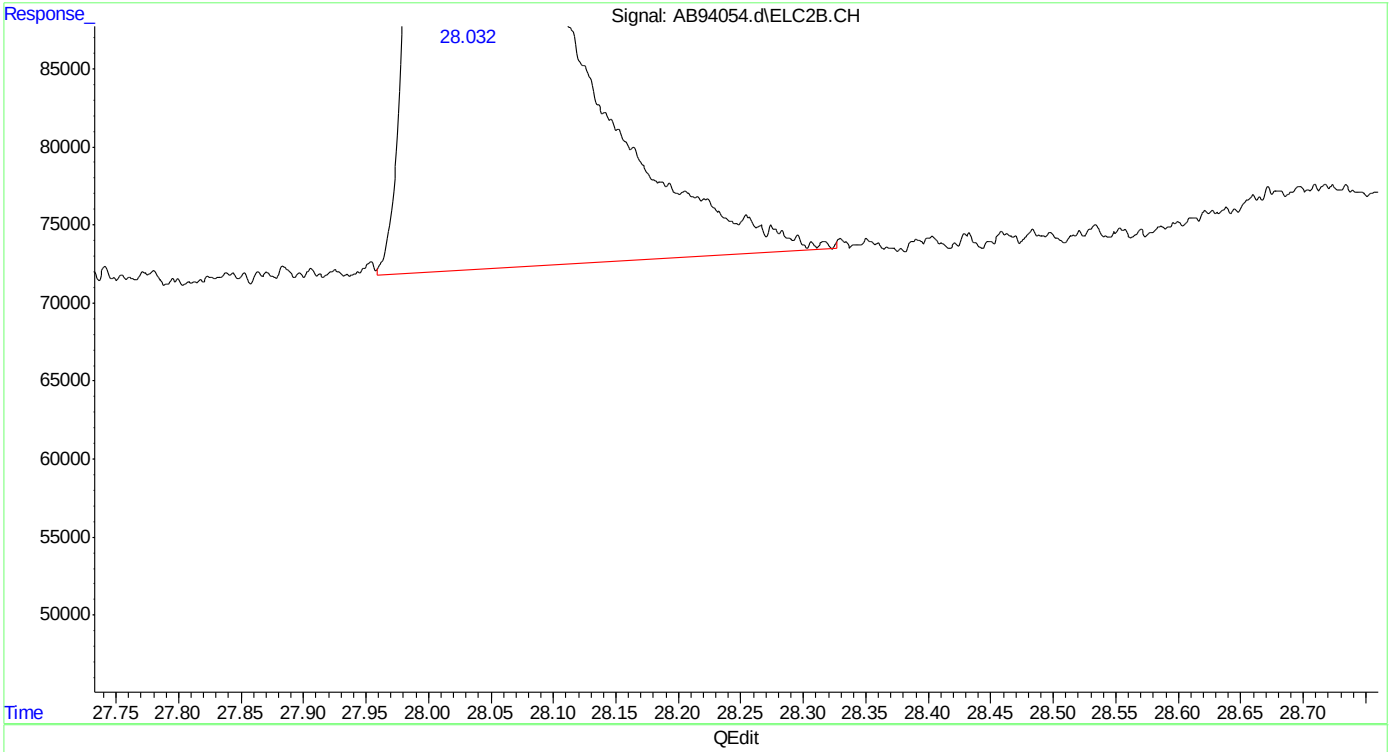
(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:02:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160512\
Data File : AB94054.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-May-16, 21:40:39
Operator : tonyf
Sample : cc5058-50
Misc : gc26234,gab5168,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 07:53:44 2016
Quant Method : C:\msdchem\1\methods\ab160512vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.032min 44.468 ppb m
response 32146304

(+) = Expected Retention Time
ab160512vph.M Fri May 13 08:02:39 2016

ACCUTEST LABORATORIES

Instrument: GC 21 (AB)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 1-12-2016 Analyst Signature: HNN

Standards Data

Lot #	Description	Conc
VMAVPH	GC25816 gab5058	
V8021bTXMN	gc25818 gab5059 (A)	
V8015gro	gc25819 gab5060 (B)	

Standards Data

Lot #	Description	Conc
gv162253	VPH STD	50ug/mL 2/11/16
gv162254	↓	5ug/mL
gv162255	↓	1ug/mL
gv162256	VPH 2nd source	50ug/mL
gv162249	CC/LCS P2	250ug/mL 2/11/16

Column: MTX502-2
Method: ABVPH1
GC Seq. File: AB160112-S
Method Files: AB160112VPH MASTER
CC 5058-.50
AS Seq. File: N/A
Seq. Verification: HNN

Date of ICAL: 1-12-2016 ICAL Verified:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
AB92584	ic5058-1000	N/A	gc25816	VMAVPH	1	W	100ml gv162253		5ml DI		50ug/mL STD
85	-500	↓	↓	↓	2	↓	50ml	↓	↓		↓
86	-250				3		25ml				
87	-100				4		10ml				
88	ic5058-50				5		5ml	↓	↓		↓
89	ic5058-10				6		10ml gv162254		5ml DI		5ug/mL STD
90	-5				7		5ml	↓	↓		↓
91	-2				8		10ml gv162255		5ml DI		1ug/mL STD
92	-1				9		5ml	↓	↓		↓
93	icv5058-50				10		5ml gv162256		5ml DI		VPH 2nd source 50ug/l STD
94	ccs5058-50	↓	↓	↓	11	↓	1ml of gv162249	N/A	N/A	N/A	

1/12/2016 HNN

GC001-05 Date: 12/02/08 Dilution Solvent: _____ Lot Number: _____ Review _____

MTX = Matrix: Designate W for water, S for soil, O for oil. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water.

SGS ACCUTEST MC45816A

C:\msdchem\1\data\ab160112\AB92593.d

Operator
Date Acquired
Method Reference: ABI&OIIZVPHMASTER.M
Acq. Method file

VPH INITIAL CALIBRATION

AREA RESPONSE

FID Name	AB92584.d 1000	AB92585.d 500	AB92586.d 250.00	AB92587.d 100.00	AB92588.d 50.00	AB92589.d 10.00	AB92590.d 5.00	AB92591.d 2	AB92592.d 1.00			
pentane	331590120	167372218	83244108	33420619	17341856	3766236	1948123	782177	423417			
2-methylpentane	391421055	194354385	96840946	38500243	19931281	4308812	2254634	895663	474249			
iso-octane	251983203	155550894	90504546	40723060	22107974	4807629	2659001	1010297	532157			
Total Area	974995078	517377297	270589598	112643922	59381111	12882677	6862097	2688137	1429823	average CF	std dev	%rsd
Total Concentration ppb	3000	1500	750	300	150	30	15	6	3	401509	53780	13.39
Calibration Response Factor	324998	344918	360786	375480	395374	429423	457473	448023	476608			
nonane	591293979	289348466	144023290	55977594	28560611	6317132	3202966	1295530	636900			
decane	587741810	295400585	148414165	57632960	29380393	6389567	3274046	1363143	652274			
butylcyclohexane	562827500	299471611	153083117	60198202	30974569	6902750	3520100	1487308	764280			
Total Area	1741863288	884220661	445520562	173808745	88915573	19609449	9997101	4145981	2073455	avg CF	std dev	%rsd
Total Concentration ppb	3000	1500	750	300	150	30	15	6	3	626504	48172	7.69
Calibration Response Factor	580621	589480	594027	579362	592770	653648	666473	690997	691152			

	Area	1000 ppb	50ppb
C5 - C8		401509187	20075459
C9 - C12		626503567	31325178

created 8/29/05 aef

C:\msdchem\custrpt\VPHCAL9.CRT

Data File Name	AB92593.d
Operator	haleyn
Date Acquired	#VALUE!
Sample Name	icv5058-50
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	15547337	C5 - C8 area	CF	CF		
rt7/10	17999511	54467022	363113	401509	9.56	
rt10/13	20920173					
rt20/25	26744531					
decane	27320621	C9-C12 area				
butylcyclohexane	28763512	82828664	552191	626504	11.86	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 1-12-2016 HNN

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	AB92594.d
Operator	haleyn
Date Acquired	#VALUE!
Sample Name	cc5058-50
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	16532359	C5 - C8 area	CF	CF		
rt7/10	19269803	57832334	385549	401509	3.98	
rt10/13	22030172					
rt20/25	27274050					
decane	27119315	C9-C12 area				
butylcyclohexane	29265246	83658611	557724	626504	10.98	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 1-12-2016 HNN

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

ACCUTEST LABORATORIES

Instrument: GC 21 (AB)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/12/16 Analyst Signature: ccf

Standards Data

Lot #	Description	Conc
Vmaph	qz 26234 g Ab	5168
Soil		

Standards Data

Lot #	Description	Conc
qv16381	cc/bsp 250 ug/ml	6/2/16
qv16382	Sun ↓	↓
qv 16125H	1,354 mb 500 ug/ml	11/30/16
qv16386	Soil Sun 50 ug/ml	6/6/16
qv16356	smix 21 100 ug/ml	10/28/16

Column: mtx 502.2
Method: AB VPH1
GC Seq. File: AB160512.5
Method Files:
AB160512 VPH cc 5058-50

AS Seq. File: 1-1 2-2 3-4

Date of ICAL: 1-12-16 ICAL Verified: Seq. Verification: 5-10 11-11

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
Ab 94037	Cmcal 50	N/A	qz 26234	Vmaph	1	W	1ml qv16381	N/A	N/A	N/A	
38	mb		16g 16ml		2	S	5ml of 1ml/50ml				
39	bsp		20g 20ml		3		4.98g of 1ml bsp/extract				manual load
40	bsd				4						
41	mc45838-2	1	16.63g 16ml		5		5ml of 1ml/50ml				
42	mc45816-6	3	16.91g		6			N/A			
43	-7	3	16.14g		7						
44	-2	6	14.32g		8						
45	-2ms	7	14.36g		9		+ Spike				
46	-2msd	7			10						
~~47~~	~~Cmcal 50~~	~~N/A~~	~~5/12/16~~	~~ccf~~	~~11~~	~~W~~	~~1ml 5/12/16 qv16381~~		~~deg blank~~	~~appended 5/12/16~~	
47	mc45856-1 *	1	13.12g 11ml		11	S	5ml of 1ml/50ml	N/A	N/A	*5/m High	
48	-2 *	1	4.10g		12			N/A		*5/m Low	
49	-3	1	11.68g		13						
50	-4 *	1	12.87g		14					*5/m High	
51	mc45857-2	1	17.342g 16ml		15						
52	-3	1	16.248g		16						
53	mc45856-5	1	13.11g 11ml		17						
54	Cmcal 50	N/A			18	W	1ml qv16381				

5/12/16

GC001-05 Date: 12/02/08 Dilution Solvent:_____ Lot Number:_____ Review _____

MTX = Matrix: Designate W for water, S for soil, O for oil. *Note: If sample matrix is soil - method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water.

16

5/12/16 Vnaugh Soil ad

mb

Extract 16g Sand Emb 15K160016
15ml meoH Fisher 157266
1ml SUVS 50ug/ml gv 16380 Exp 6/16/16
TFT, Fluorobz.

for OI 1ml/50ml FV DI

bsp + bsd

Extract
20g SAND Emb 15K160016
19ml meoH Fisher 157266
1ml surrogate gv 16380 50ug/ml Exp 6/16/16
50ul SMA 121 1000ug/ml gv 16325G 10/28/16
10ul 1,3 Stnb 5000ug/ml gv 16125H 11/30/16

MSMSD

14.36 grams 15ml meoH
1ml surrogate gv16380 50ug/ml Exp 6/16/16
40ul gv 16325G SMA 121 Exp 10/28/16
8ul gv 16125H 11/30/16

Page 0001SA

SGS ACCUTEST MC45816A

Data File Name	AB94037.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc5058-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	16491755	C5 - C8 area	CF	CF		
rt7/10	18790298	56938596	379591	401509	**5.46**	
rt10/13	21656542					
rt20/25	26788866					
decane	27387125	C9-C12 area				
butylcyclohexane	29432463	83608455	557390	626504	**11.03**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/12/16 aef

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	AB94054.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc5058-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	16326950	C5 - C8 area	CF	CF		
rt7/10	18599436	57690730	384605	401509	**4.21**	
rt10/13	22764344					
rt20/25	26476555					
decane	27070693	C9-C12 area				
butylcyclohexane	29049533	82596781	550645	626504	**12.11**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: DJF/ 5-13-16

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

ACCUTEST

Methanol Prep Log

Vial #:	Sample ID:	Initial Tare Wt (g)	Total Wt (g)	Sample Wt (g)	Comments:
071414-3:10966	MC45856-1.1 *	37.61	50.730	13.12 *	10ml * s/m High
071414-3:10955	MC45856-2.1 **	37.38	41.480	4.10 **	** s/m Low
071414-3:10943	MC45856-3.1	37.28	48.960	11.68	↓
071414-3:10993	MC45856-4.1 *	37.33	50.200	12.87 *	
071414-3:10987	MC45856-5.1	37.41	37.290	TB use 11g	11mend * s/m High
050216-3:10263	MC45857-2.1	40.65	57.992	17.342	15ml
050216-3:10244	MC45857-3.1	41.07	57.318	16.248	↓

Analyst: acf Date: 5/12/16

Page 1 of 1

ACCUTEST

Methanol Prep Log

Vial #:	Sample ID:	Initial Tare Wt (g)	Total Wt (g)	Sample Wt (g)	Comments:
040615-3:53354	MC45816-2.6	40.540	54.860	14.320	15ml MeOH
040615-3:53372	MC45816-2.7	40.540	54.900	14.360	
040615-3:53365	MC45816-6.3	40.890	57.800	16.910	
040615-3:53363	MC45816-7.3	40.540	56.680	16.140	
050216-3:10243	MC45838-2.1	40.60	57.230	16.63	

Analyst: [illegible] Date: 5/12/16

Page 1 of 1

Accutest Laboratories of New England, Inc. **Bulk Soil Preparation Logbook**

Balance ID: ACC-2 (Model XL-300)

Note: Must prep a blank for every 20 samples for each matrix (MEOH, NaBi, or DI Water)

Sample Number	Bot. No.	Sample Col. Date/Time	Sample Weight	Vol. Of MEOH	Vol Of NaBi	Vol Of DI	Prep. Date/Time	Inst. Batch ID	Analyst
MC45616-5ms SD	4	4/27/16 1540	6.181	NA	NA	5mL	5/10/16 1640	MSM	KP
mb VMaqph	1	5/12/16 10:15	16.000g	15mL+	1mL surr		5/12/16 10:15	GAB	aaf *
bsp ↓	1	↓ 10:17	20.000g	19mL+	1mL surr	+spike	5/12/16 10:17	↓	↓ *
MC45616-42ms	4	4/27/16 1420	4.962	NA	NA	5mL	5/10/16 1136	MSM	KP
-42msD	↓	↓	4.827	↓	↓	↓	↓ 1137	↓	↓
MC45551-49ms		4/26/16 1605	5.208				1138		
-49msD	↓	↓	5.023	↓	↓	↓	↓ 1139	↓	↓
MC45708-6ms	4	5/2/16 1037	4.725	↓	↓	↓	1620	↓	↓
-6msD	↓	↓	5.238				1621		
MC45696-5ms	3	4/29/16 1240	4.993				1622		
-5msD	↓	↓	4.851	↓	↓	↓	↓ 1623	↓	↓
mb VPH Soil	N/A	5/13/16 9:36	16.000g	15mL	+1mL	Surr	5/13/16 9:36	gab	DJF *
bsp ↓	↓	↓ 9:38	20.000g	19mL +	1mL surr	+spike	↓ 9:38	↓	↓ ↓
MC45696-5ms	3	4/29/16 1240	5.129	NA	NA	5mL	5/13/16 1021	MSM	KP
-5msD	↓	↓	4.925	↓	↓	↓	↓ 1022	↓	↓
MB	N/A	N/A	10.008	N/A	N/A	10mL	5/13/16 11:30	GBS	TAB
MOL-1	↓	↓	10.633	↓	↓	↓	↓	↓	↓
-2			10.145						
-3			10.200						
-4			10.702						
-5			10.418						
-6			10.503						
-7			10.754						
-8	↓	↓	10.235	↓	↓	↓	↓	↓	↓
MC45860-1	1	5-5-16 1445	12.085	10ml	N/A	N/A	5-13-16 1222	MSG	TAB
-2	1	↓ 1542	12.163	↓	↓	↓	↓	↓	↓
-3	1	↓ 1545	12.713						
-4	1	↓ 1547	12.803	↓	↓	↓	↓	↓	↓

Sodium Bisulate Lot# _____ Manufacturer: _____

Methanol Lot # * Fisher 159266 Manufacturer: * Sand End 15K16001b

DI Lot #: 042516-3 Manufacturer: C+G

Comments:

MMS013-02 (12/07/06)

SGS ACCUTEST MC45816A

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP47572-MB	DE14317.D	1	05/31/16	AP	05/20/16	OP47572	GDE801

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC45816-2, MC45816-6, MC45816-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	17000	14000	ug/kg	
	C9-C18 Aliphatics	ND	8600	6900	ug/kg	
	C19-C36 Aliphatics	ND	8600	6900	ug/kg	
	C11-C22 Aromatics	ND	17000	14000	ug/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	71%	40-140%
321-60-8	2-Fluorobiphenyl	73%	40-140%
580-13-2	2-Bromonaphthalene	77%	40-140%
3386-33-2	1-Chlorooctadecane	69%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP47572-BS	DE14318.D	1	05/31/16	AP	05/20/16	OP47572	GDE801
OP47572-BSD	DE14319.D	1	05/31/16	AP	05/20/16	OP47572	GDE801

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC45816-2, MC45816-6, MC45816-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	69200	54700	79	65500	93	18	40-140/25
	C9-C18 Aliphatics	26000	16600	64	19400	73	16	40-140/25
	C19-C36 Aliphatics	34600	26400	76	32200	91	20	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	77%	88%	40-140%
321-60-8	2-Fluorobiphenyl	70%	81%	40-140%
580-13-2	2-Bromonaphthalene	64%	75%	40-140%
3386-33-2	1-Chlorooctadecane	73%	76%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47572-BS	2-Methylnaphthalene	2320	12.4	0.5%	5.0
OP47572-BS	Naphthalene	2340	24.7	1.0%	5.0
OP47572-BSD	2-Methylnaphthalene	2820	12.3	0.4%	5.0
OP47572-BSD	Naphthalene	2810	13.5	0.5%	5.0

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP47572-MS	DE14326.D	1	05/31/16	AP	05/20/16	OP47572	GDE801
OP47572-MSD	DE14328.D	1	05/31/16	AP	05/20/16	OP47572	GDE801
MC45816-2	DE14323.D	1	05/31/16	AP	05/20/16	OP47572	GDE801

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC45816-2, MC45816-6, MC45816-7

CAS No.	Compound	MC45816-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	ND		101000	88200	88	100000	87300	87	1	40-140/25
	C9-C18 Aliphatics	ND		37800	29300	78	37600	28800	77	2	40-140/25
	C19-C36 Aliphatics	ND		50300	43100	86	50100	44400	89	3	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45816-2	Limits
84-15-1	o-Terphenyl	83%	83%	83%	40-140%
321-60-8	2-Fluorobiphenyl	82%	77%	74%	40-140%
580-13-2	2-Bromonaphthalene	76%	63%	43%	40-140%
3386-33-2	1-Chlorooctadecane	70%	95%	95%	40-140%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Method: MADEP EPH REV 1.1 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [a]	S4 [b]
MC45816-2	DE14323.D	83	74	43	95
MC45816-6	DE14324.D	79	71	75	84
MC45816-7	DE14325.D	73	76	89	77
OP47572-BS	DE14318.D	77	70	64	73
OP47572-BSD	DE14319.D	88	81	75	76
OP47572-MB	DE14317.D	71	73	77	69
OP47572-MS	DE14326.D	83	82	76	70
OP47572-MSD	DE14328.D	83	77	63	95

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 2-Bromonaphthalene	40-140%
S4 = 1-Chlorooctadecane	40-140%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE801-CC735	**Injection Date:**	05/31/16
Lab File ID:	DE14316.D	**Injection Time:**	07:45
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	9.88	6.62	7.34	11.22

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
OP47572-MB	DE14317.D	05/31/16	08:24	9.88	6.62	7.34	11.22
OP47572-BS	DE14318.D	05/31/16	08:52	9.88	6.62	7.34	11.22
OP47572-BSD	DE14319.D	05/31/16	09:20	9.88	6.62	7.34	11.22
ZZZZZZ	DE14320.D	05/31/16	09:47	9.88	6.62	7.34	11.22
ZZZZZZ	DE14321.D	05/31/16	10:15	9.88	6.62	7.35	11.22
ZZZZZZ	DE14322.D	05/31/16	10:43	9.88	6.62	7.35	11.22
MC45816-2	DE14323.D	05/31/16	11:11	9.88	6.62	7.35	11.22
MC45816-6	DE14324.D	05/31/16	11:39	9.88	6.62	7.35	11.22
MC45816-7	DE14325.D	05/31/16	12:06	9.88	6.62	7.35	11.22
OP47572-MS	DE14326.D	05/31/16	12:34	9.88	6.62	7.35	11.22

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 2-Bromonaphthalene
S4 = 1-Chlorooctadecane

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE801-CC735	**Injection Date:**	05/31/16
Lab File ID:	DE14327.D	**Injection Time:**	13:02
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	9.88	6.62	7.35	11.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
OP47572-MSD	DE14328.D	05/31/16	13:29	9.88	6.62	7.35	11.22
ZZZZZZ	DE14329.D	05/31/16	13:57	9.88	6.62	7.35	11.22
ZZZZZZ	DE14330.D	05/31/16	14:25	9.88	6.62	7.35	11.22
OP47552-BS	DE14331.D	05/31/16	14:53	9.88	6.62	7.35	11.22
OP47552-BSD	DE14332.D	05/31/16	15:20	9.88	6.62	7.35	11.22
OP47552-MB	DE14333.D	05/31/16	15:48	9.88	6.62	7.35	11.22
FA33755-1R	DE14334.D	05/31/16	16:16	9.88	6.62	7.35	11.22
ZZZZZZ	DE14335.D	05/31/16	16:44	9.88	6.62	7.35	11.22
OP47552-MS	DE14336.D	05/31/16	17:12	9.88	6.62	7.35	11.22
OP47552-MSD	DE14337.D	05/31/16	17:39	9.88	6.62	7.35	11.22

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 2-Bromonaphthalene
S4 = 1-Chlorooctadecane

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE735-ICC735
Lab FileID: DE13195.D

Response Factor Report GCDE

Method : C:\msdchem\1\METHODS\EPH160204W.M (RTE Integrator)
Title : BMAEPH-working method
Last Update : Fri Feb 05 13:21:12 2016
Response via : Initial Calibration

Calibration Files
1 =de13197.d 2 =de13196.d 3 =de13195.d 4 =de13194.d
5 =de13193.d 6 =de13192.d 7 =de13191.d

Compound	1	2	3	4	5	6	7	Avg	%RSD
1)h c11-c22 Aromatics	9.820							9.820 E4	0.00
2) naphthalene	0.973	1.014	1.069	1.081	1.046	1.028	1.009	1.031 E5	3.63
3) 2-methylnaphthale	0.957	1.000	1.057	1.068	1.037	1.025	1.030	1.025 E5	3.65
4)s 2-fluorobiphenyl	8.586	8.981	9.512	9.617	9.324	9.238	9.302	9.223 E4	3.76
5) acenaphthylene	0.934	0.978	1.038	1.053	1.027	1.012	0.999	1.006 E5	4.00
6)s 2-bromonaphthalen	5.855	6.121	6.501	6.591	6.368	6.298	6.194	6.275 E4	3.94
7) acenaphthene	0.966	1.010	1.071	1.085	1.050	1.037	1.018	1.034 E5	3.90
8) fluorene	0.946	0.989	1.049	1.065	1.031	1.023	1.007	1.016 E5	3.92
9) phenanthrene	0.945	0.988	1.045	1.065	1.029	1.035	1.018	1.018 E5	3.92
10) anthracene	0.897	0.938	0.994	1.019	0.984	0.996	0.962	0.970 E5	4.26
11)s o-terphenyl	0.950	0.994	1.052	1.072	1.032	1.040	1.030	1.024 E5	3.96
12) fluoranthene	0.923	0.963	1.016	1.039	1.003	1.017	1.035	0.999 E5	4.21
13) pyrene	0.947	0.988	1.025	1.045	1.012	1.031	1.055	1.015 E5	3.67
14) benzo(a)anthracen	0.894	0.932	0.977	1.001	0.969	0.989	1.005	0.967 E5	4.18
15) chrysene	0.903	0.939	0.990	1.011	0.978	0.990	1.003	0.973 E5	3.97
16) benzo(B)fluoranth	0.945	0.946	0.996	1.047	1.000	0.988	1.008	0.990 E5	3.63
17) benzo(k)fluoranth	8.430	9.345	9.845	9.766	9.489	9.693	9.583	9.450 E4	5.09
18) benzo(a)pyrene	8.660	8.965	9.450	9.638	9.284	9.234	9.474	9.244 E4	3.62
19) indeno(1,2,3-cd)p	9.335	9.241	9.709	9.741	9.445	9.341	9.448	9.466 E4	2.02
20) dibenzo(ah)anthra	8.305	8.727	9.371	9.666	9.332	9.299	9.278	9.140 E4	5.05
21) benzo(ghi)perylen	8.762	8.870	9.410	9.580	9.273	9.246	9.345	9.212 E4	3.19
22)s bht								0.000	-1.00
23) bht								0.000	-1.00

Signal #2

25)h c-9	7.387							7.387 E4	0.00
26)h c-10	7.387							7.387 E4	0.00
27) naphthalene #2	7.003	7.593	7.611	8.507	8.544	8.454	8.198	7.987 E4	7.42
28) c-12	7.387							7.387 E4	0.00
29) 2-methylnaphthale	6.966	7.565	7.607	8.491	8.598	8.600	8.570	8.057 E4	8.29
30) c-14	7.387							7.387 E4	0.00
31) c-16	7.387							7.387 E4	0.00
32) c-18	7.387							7.387 E4	0.00
33) c-19	6.681							6.681 E4	0.00
34) c-20	6.681							6.681 E4	0.00
35)s 1-chlorooctadecan	4.935	5.338	5.360	5.912	5.965	5.976	6.118	5.657 E4	7.85
36) c-22	6.681							6.681 E4	0.00
37) c-24	6.681							6.681 E4	0.00
38) c-26	6.681							6.681 E4	0.00
39) c-28	6.681							6.681 E4	0.00
40)h c-30	6.681							6.681 E4	0.00
41)h c-36	6.681							6.681 E4	0.00
42)s bht								0.000	-1.00
43)s bht								0.000	-1.00
44)s bht								0.000	-1.00
45)s bht								0.000	-1.00

Initial Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE735-ICC735
Lab FileID: DE13195.D

(#) = Out of Range

EPH160204W.M Fri Feb 05 14:30:17 2016

Initial Calibration Verification

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE735-ICV735
Lab FileID: DE13198.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  4 Feb 2016   7:21 pm
Operator  : thomasa
Sample    : icv735-50
Misc      : op46167,gde735,1000,,,2,,w
ALS Vial  : 16   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  80%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 120%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	106.426 E3	-3.2	100	0.00
3		2-methylnaphthalene	102.482	104.515 E3	-2.0	99	0.00
4	s	2-fluorobiphenyl	92.230	95.715 E3	-3.8	101	0.00
5		acenaphthylene	100.602	103.788 E3	-3.2	100	0.00
6	s	2-bromonaphthalene	62.755	65.224 E3	-3.9	100	0.00
7		acenaphthene	103.376	106.000 E3	-2.5	99	0.00
8		fluorene	101.567	104.339 E3	-2.7	100	0.00
9		phenanthrene	101.763	103.522 E3	-1.7	99	0.00
10		anthracene	97.008	103.269 E3	-6.5	104	0.00
11	s	o-terphenyl	102.427	104.556 E3	-2.1	99	0.00
12		fluoranthene	99.941	102.944 E3	-3.0	101	0.00
13		pyrene	101.462	101.540 E3	-0.1	99	0.00
14		benzo(a)anthracene	96.675	100.212 E3	-3.7	103	0.00
15		chrysene	97.341	96.368 E3	1.0	97	0.00
16		benzo(B)fluoranthene	99.002	102.523 E3	-3.6	103	0.00
17		benzo(k)fluoranthene	94.503	96.169 E3	-1.8	98	0.00
18		benzo(a)pyrene	92.435	89.726 E3	2.9	95	0.00
19		indeno(1,2,3-cd)pyrene	94.658	96.506 E3	-2.0	99	0.00
20		dibenzo(ah)anthracene	91.399	94.300 E3	-3.2	101	0.00
21		benzo(ghi)perylene	92.123	95.320 E3	-3.5	101	0.00
Signal #2							
25	h	c-9	73.872	73.397 E3	0.6	0#	0.00
26	h	c-10	73.872	73.642 E3	0.3	0#	0.00
27		naphthalene #2	79.872	80.719 E3	-1.1	106	0.00
28		c-12	73.872	72.503 E3	1.9	0#	0.00
29		2-methylnaphthalene #2	80.566	79.084 E3	1.8	104	0.00
30		c-14	73.872	72.105 E3	2.4	0#	0.00
31		c-16	73.872	70.770 E3	4.2	0#	0.00

Initial Calibration Verification

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE735-ICV735
Lab FileID: DE13198.D

32		c-18	73.872	69.894	E3	5.4	0#	0.00
33		c-19	66.806	68.487	E3	-2.5	0#	0.00
34		c-20	66.806	67.817	E3	-1.5	0#	0.00
35	s	1-chlorooctadecane	56.575	59.379	E3	-5.0	111	0.00
36		c-22	66.806	66.707	E3	0.1	0#	0.00
37		c-24	66.806	65.519	E3	1.9	0#	0.00
38		c-26	66.806	65.031	E3	2.7	0#	0.00
39		c-28	66.806	64.086	E3	4.1	0#	0.00
40	h	c-30	66.806	62.872	E3	5.9	0#	0.00
41	h	c-36	66.806	58.670	E3	12.2	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.35#
22	s	bht	0.000	0.000		0.0	0#	-15.69#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH160204W.M Fri Feb 05 14:30:12 2016

8.6.2

8

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE801-CC735
Lab FileID: DE14316.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 31 May 2016   7:45 am
Operator  : andrip
Sample    : cc735-50,gde801
Misc      : op47648,gde801,11,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:50:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	126.357 E3	-22.5	118	0.00
3		2-methylnaphthalene	102.482	123.107 E3	-20.1	116	0.00
4	s	2-fluorobiphenyl	92.230	112.251 E3	-21.7	118	0.00
5		acenaphthylene	100.602	123.272 E3	-22.5	119	0.00
6	s	2-bromonaphthalene	62.755	75.115 E3	-19.7	116	0.00
7		acenaphthene	103.376	127.930 E3	-23.8	119	0.00
8		fluorene	101.567	123.796 E3	-21.9	118	0.00
9		phenanthrene	101.763	122.449 E3	-20.3	117	0.00
10		anthracene	97.008	118.148 E3	-21.8	119	0.00
11	s	o-terphenyl	102.427	123.533 E3	-20.6	117	0.00
12		fluoranthene	99.941	120.386 E3	-20.5	118	0.00
13		pyrene	101.462	123.585 E3	-21.8	121	0.00
14		benzo(a)anthracene	96.675	114.702 E3	-18.6	117	0.00
15		chrysene	97.341	117.310 E3	-20.5	118	0.00
16		benzo(B)fluoranthene	99.002	119.991 E3	-21.2	120	0.00
17		benzo(k)fluoranthene	94.503	108.574 E3	-14.9	110	0.00
18		benzo(a)pyrene	92.435	111.143 E3	-20.2	118	0.00
19		indeno(1,2,3-cd)pyrene	94.658	114.359 E3	-20.8	118	0.00
20		dibenzo(ah)anthracene	91.399	108.781 E3	-19.0	116	0.00
21		benzo(ghi)perylene	92.123	110.465 E3	-19.9	117	0.00

Signal #2

25	h	c-9	73.872	86.350 E3	-16.9	0#	0.00
26	h	c-10	73.872	87.119 E3	-17.9	0#	0.00
27		naphthalene #2	79.872	92.988 E3	-16.4	122	0.00
28		c-12	73.872	86.708 E3	-17.4	0#	0.00
29		2-methylnaphthalene #2	80.566	93.074 E3	-15.5	122	0.00
30		c-14	73.872	86.646 E3	-17.3	0#	0.00
31		c-16	73.872	86.250 E3	-16.8	0#	0.00

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE801-CC735
Lab FileID: DE14316.D

32		c-18	73.872	86.538	E3	-17.1	0#	0.00
33		c-19	66.806	85.898	E3	-28.6#	0#	0.00
34		c-20	66.806	84.226	E3	-26.1#	0#	0.00
35	s	1-chlorooctadecane	56.575	67.949	E3	-20.1	127#	0.00
36		c-22	66.806	83.700	E3	-25.3#	0#	0.00
37		c-24	66.806	78.290	E3	-17.2	0#	0.00
38		c-26	66.806	83.132	E3	-24.4	0#	0.00
39		c-28	66.806	80.236	E3	-20.1	0#	0.00
40	h	c-30	66.806	79.922	E3	-19.6	0#	0.00
41	h	c-36	66.806	76.544	E3	-14.6	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-20.00#
23		bht	0.000	0.000		0.0	0#	-20.00#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH160531W.M Tue May 31 09:50:42 2016

8.6.3

8

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE801-CC735
Lab FileID: DE14327.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14327.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 31 May 2016   1:02 pm
Operator  : andrip
Sample    : cc735-50,gde801
Misc      : op47572,gde801,11,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 13:55:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	126.129 E3	-22.3	118	0.00
3		2-methylnaphthalene	102.482	123.027 E3	-20.0	116	0.00
4	s	2-fluorobiphenyl	92.230	112.144 E3	-21.6	118	0.00
5		acenaphthylene	100.602	122.107 E3	-21.4	118	0.00
6	s	2-bromonaphthalene	62.755	74.729 E3	-19.1	115	0.00
7		acenaphthene	103.376	127.737 E3	-23.6	119	0.00
8		fluorene	101.567	122.982 E3	-21.1	117	0.00
9		phenanthrene	101.763	120.725 E3	-18.6	116	0.00
10		anthracene	97.008	116.507 E3	-20.1	117	0.00
11	s	o-terphenyl	102.427	121.718 E3	-18.8	116	0.00
12		fluoranthene	99.941	117.449 E3	-17.5	116	0.00
13		pyrene	101.462	120.192 E3	-18.5	117	0.00
14		benzo(a)anthracene	96.675	110.547 E3	-14.3	113	0.00
15		chrysene	97.341	113.110 E3	-16.2	114	0.00
16		benzo(B)fluoranthene	99.002	111.167 E3	-12.3	112	0.00
17		benzo(k)fluoranthene	94.503	111.924 E3	-18.4	114	0.00
18		benzo(a)pyrene	92.435	105.692 E3	-14.3	112	0.00
19		indeno(1,2,3-cd)pyrene	94.658	105.593 E3	-11.6	109	0.00
20		dibenzo(ah)anthracene	91.399	105.102 E3	-15.0	112	0.00
21		benzo(ghi)perylene	92.123	103.698 E3	-12.6	110	0.00
Signal #2							
25	h	c-9	73.872	85.239 E3	-15.4	0#	0.00
26	h	c-10	73.872	86.061 E3	-16.5	0#	0.00
27		naphthalene #2	79.872	91.648 E3	-14.7	120	0.00
28		c-12	73.872	85.304 E3	-15.5	0#	0.00
29		2-methylnaphthalene #2	80.566	91.513 E3	-13.6	120	0.00
30		c-14	73.872	84.516 E3	-14.4	0#	0.00
31		c-16	73.872	83.145 E3	-12.6	0#	0.00

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE801-CC735
Lab FileID: DE14327.D

32		c-18	73.872	82.534	E3	-11.7	0#	0.00
33		c-19	66.806	81.701	E3	-22.3	0#	0.00
34		c-20	66.806	80.075	E3	-19.9	0#	0.00
35	s	1-chlorooctadecane	56.575	64.635	E3	-14.2	121	0.00
36		c-22	66.806	79.344	E3	-18.8	0#	0.00
37		c-24	66.806	73.634	E3	-10.2	0#	0.00
38		c-26	66.806	78.014	E3	-16.8	0#	0.00
39		c-28	66.806	75.011	E3	-12.3	0#	0.00
40	h	c-30	66.806	74.454	E3	-11.4	0#	0.00
41	h	c-36	66.806	68.293	E3	-2.2	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-20.00#
23		bht	0.000	0.000		0.0	0#	-20.00#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH160531W.M Tue May 31 14:21:48 2016

8.6.4

8

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE801-CC735
Lab FileID: DE14338.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14338.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 31 May 2016   6:07 pm
Operator  : andrip
Sample    : cc735-50,gde801
Misc      : op47552,gde801,11,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 01 07:17:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	113.751 E3	-10.3	106	0.00
3		2-methylnaphthalene	102.482	111.179 E3	-8.5	105	0.00
4	s	2-fluorobiphenyl	92.230	101.668 E3	-10.2	107	0.00
5		acenaphthylene	100.602	110.686 E3	-10.0	107	0.00
6	s	2-bromonaphthalene	62.755	68.002 E3	-8.4	105	0.00
7		acenaphthene	103.376	115.967 E3	-12.2	108	0.00
8		fluorene	101.567	111.905 E3	-10.2	107	0.00
9		phenanthrene	101.763	110.462 E3	-8.5	106	0.00
10		anthracene	97.008	106.374 E3	-9.7	107	0.00
11	s	o-terphenyl	102.427	111.313 E3	-8.7	106	0.00
12		fluoranthene	99.941	108.079 E3	-8.1	106	0.00
13		pyrene	101.462	110.703 E3	-9.1	108	0.00
14		benzo(a)anthracene	96.675	104.308 E3	-7.9	107	0.00
15		chrysene	97.341	104.265 E3	-7.1	105	0.00
16		benzo(B)fluoranthene	99.002	110.150 E3	-11.3	111	0.00
17		benzo(k)fluoranthene	94.503	101.463 E3	-7.4	103	0.00
18		benzo(a)pyrene	92.435	100.005 E3	-8.2	106	0.00
19		indeno(1,2,3-cd)pyrene	94.658	103.984 E3	-9.9	107	0.00
20		dibenzo(ah)anthracene	91.399	97.126 E3	-6.3	104	0.00
21		benzo(ghi)perylene	92.123	99.120 E3	-7.6	105	0.00
Signal #2							
25	h	c-9	73.872	85.368 E3	-15.6	0#	0.00
26	h	c-10	73.872	86.466 E3	-17.0	0#	0.00
27		naphthalene #2	79.872	92.148 E3	-15.4	121	0.00
28		c-12	73.872	85.919 E3	-16.3	0#	0.00
29		2-methylnaphthalene #2	80.566	92.126 E3	-14.3	121	0.00
30		c-14	73.872	85.167 E3	-15.3	0#	0.00
31		c-16	73.872	83.765 E3	-13.4	0#	0.00

Continuing Calibration Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE801-CC735
Lab FileID: DE14338.D

32		c-18	73.872	83.164	E3	-12.6	0#	0.00
33		c-19	66.806	82.412	E3	-23.4	0#	0.00
34		c-20	66.806	80.669	E3	-20.8	0#	0.00
35	s	1-chlorooctadecane	56.575	65.225	E3	-15.3	122	0.00
36		c-22	66.806	79.778	E3	-19.4	0#	0.00
37		c-24	66.806	74.135	E3	-11.0	0#	0.00
38		c-26	66.806	78.386	E3	-17.3	0#	0.00
39		c-28	66.806	75.425	E3	-12.9	0#	0.00
40	h	c-30	66.806	74.548	E3	-11.6	0#	0.00
41	h	c-36	66.806	68.442	E3	-2.4	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-20.00#
23		bht	0.000	0.000		0.0	0#	-20.00#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH160531W.M Wed Jun 01 12:58:25 2016

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14323.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 11:11 am
Operator : andrip
Sample : mc45816-2,op47572
Misc : op47572,gde801,11.60,,,2,,s
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 12:42:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.620	1360255	14.749 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 73.75%#	
6) s 2-bromonaphthalene	7.347	539317	8.594 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 42.97%#	
11) s o-terphenyl	9.878	1701301	16.610 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 83.05%#	
35) s 1-chlorooctadecane	11.222	1078764	19.068 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 95.34%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2094505	21.328 µg/mlm
25) h c-9	2.647	1339190	18.128 µg/mlm
41) h c-36	16.983	1208117	18.084 µg/mlm

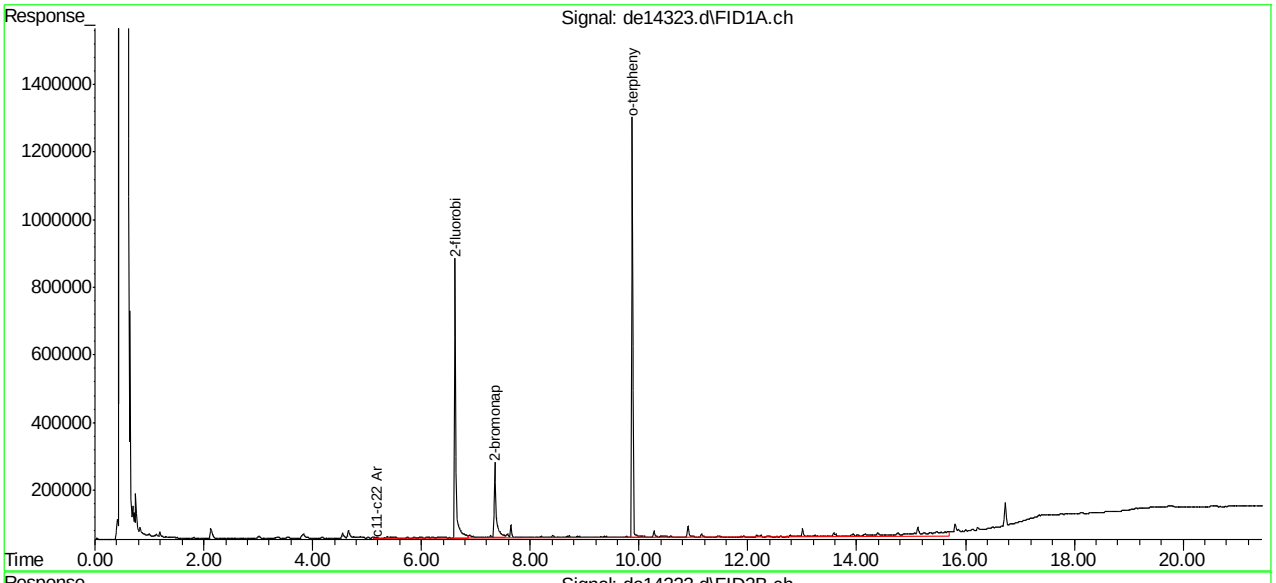
(f)=RT Delta > 1/2 Window (m)=manual int.

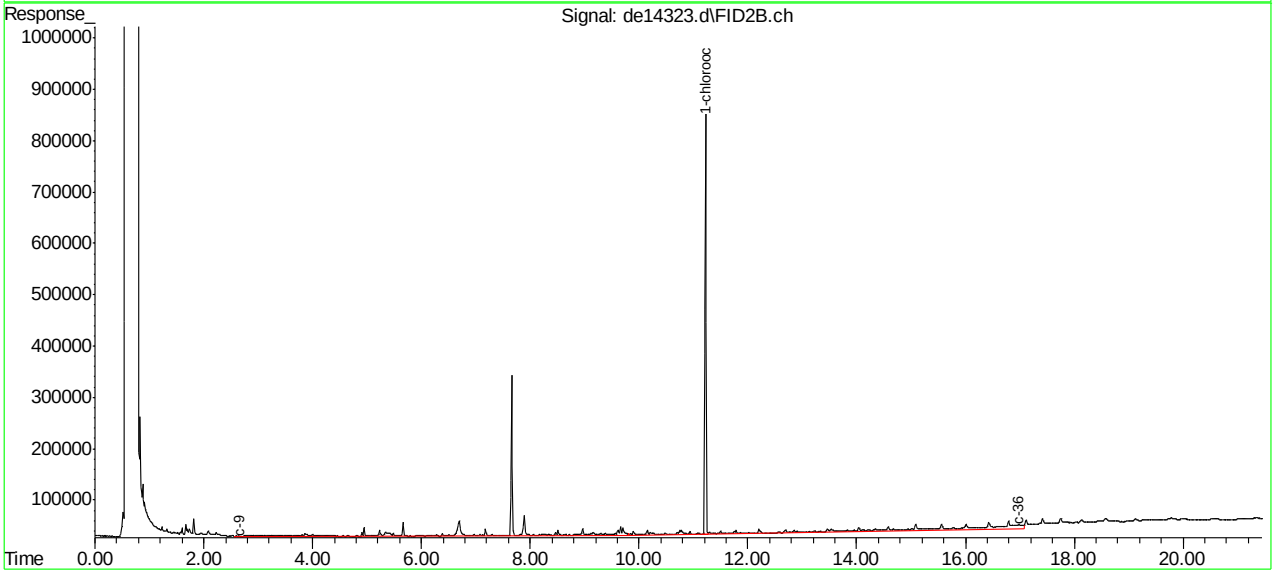
Quantitation Report (QT Reviewed)

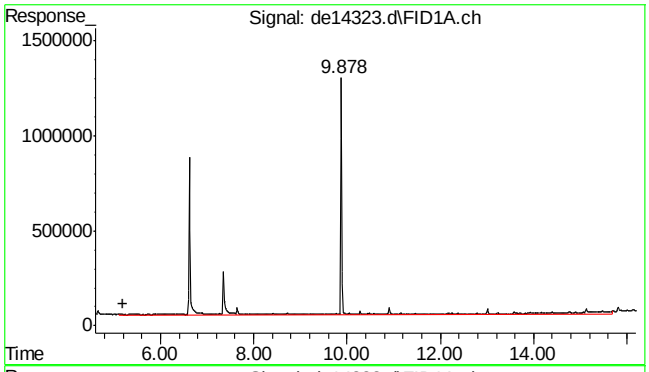
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14323.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 11:11 am
Operator : andrip
Sample : mc45816-2,op47572
Misc : op47572,gde801,11.60,,,2,,s
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 12:42:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

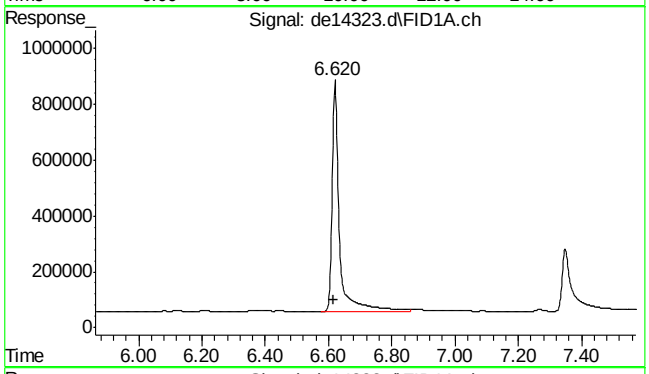






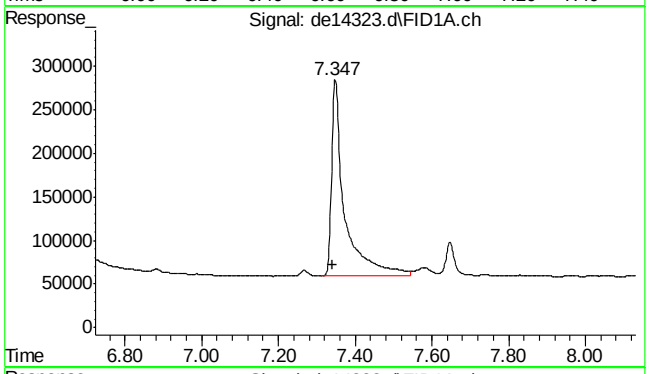
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2094505
Conc: 21.33 µg/ml m



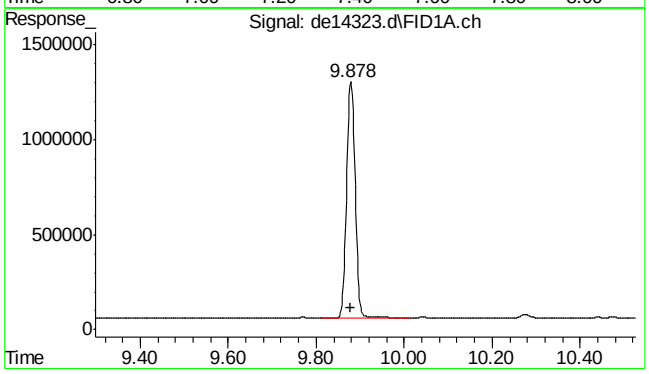
#4 2-fluorobiphenyl

R.T.: 6.620 min
Delta R.T.: 0.005 min
Response: 1360255
Conc: 14.75 µg/ml



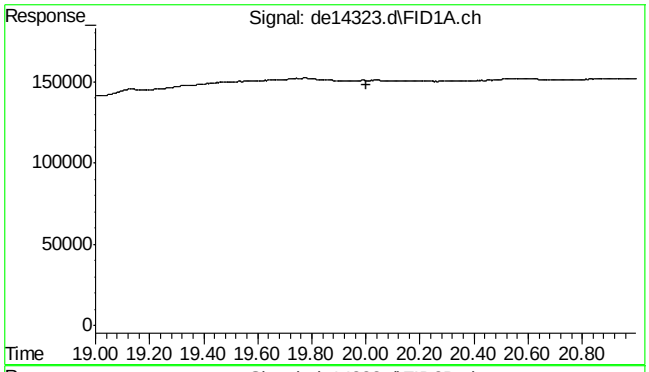
#6 2-bromonaphthalene

R.T.: 7.347 min
Delta R.T.: 0.005 min
Response: 539317
Conc: 8.59 µg/ml



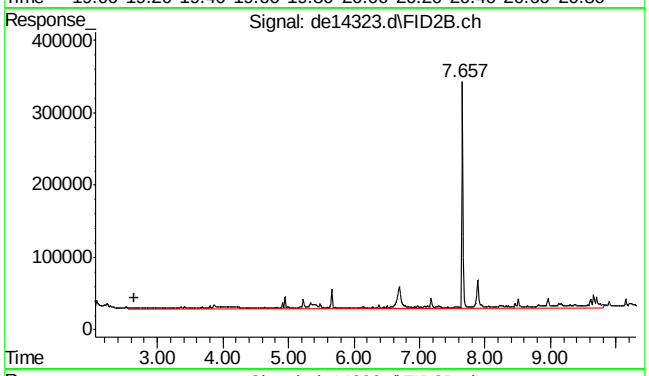
#11 o-terphenyl

R.T.: 9.878 min
Delta R.T.: 0.000 min
Response: 1701301
Conc: 16.61 µg/ml



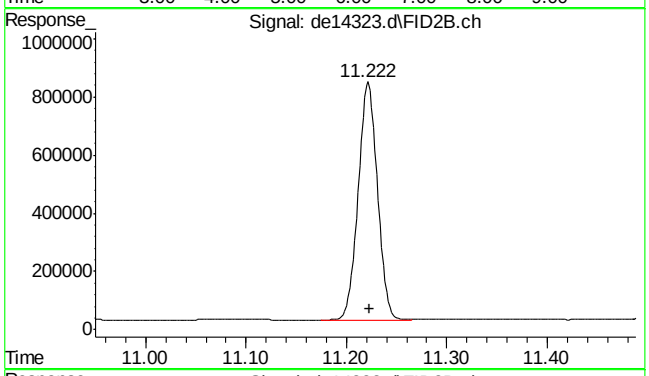
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



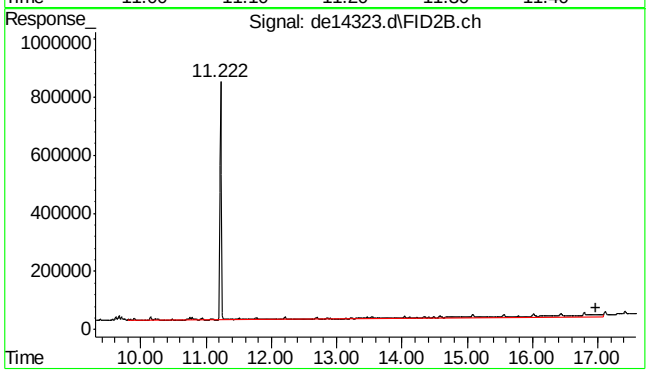
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1339190
Conc: 18.13 µg/ml m



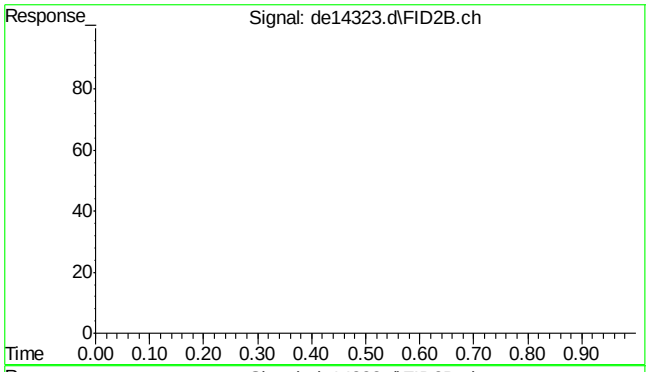
#35 1-chlorooctadecane

R.T.: 11.222 min
Delta R.T.: -0.002 min
Response: 1078764
Conc: 19.07 µg/ml



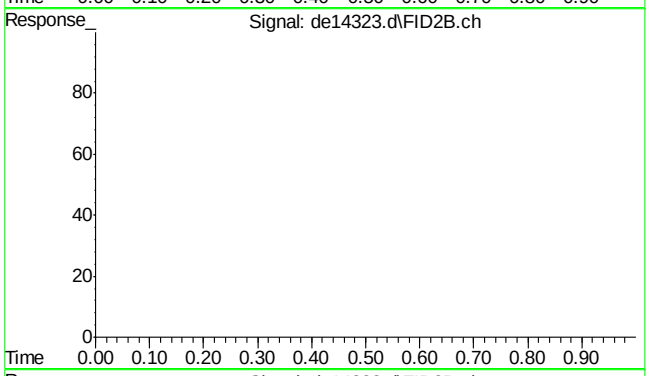
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1208117
Conc: 18.08 µg/ml m



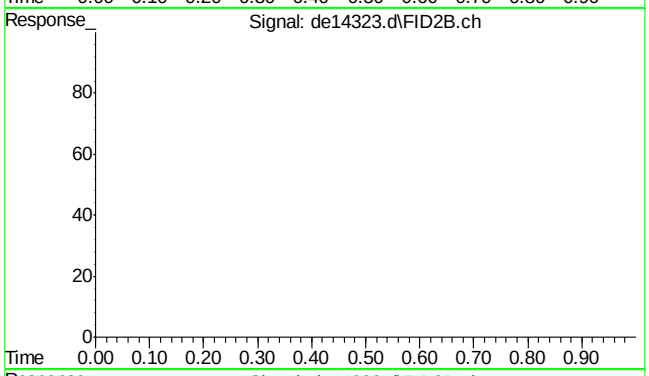
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



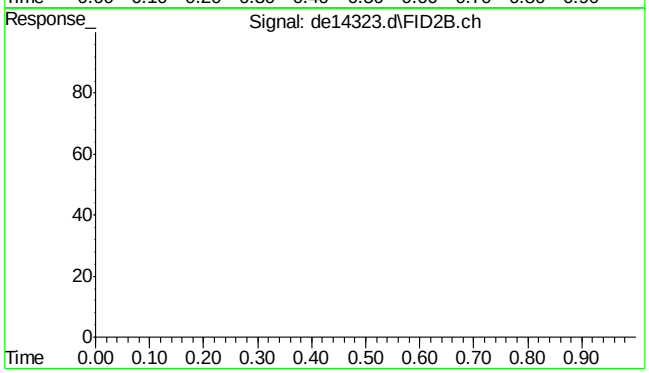
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14324.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 11:39 am
Operator : andrip
Sample : mc45816-6,op47572
Misc : op47572,gde801,11.31,,,2,,s
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 12:39:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.620	1306166	14.162 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	70.81%#
6) s 2-bromonaphthalene	7.347	941143	14.997 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	74.98%#
11) s o-terphenyl	9.880	1609815	15.717 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	78.59%#
35) s 1-chlorooctadecane	11.222	945323	16.709 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	83.55%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2172244	22.120 µg/mlm
2) naphthalene	5.180	82490	0.800 µg/ml
3) 2-methylnaphthalene	6.078	27537	0.269 µg/ml
25) h c-9	2.647	1063212	14.393 µg/mlm
41) h c-36	16.983	979916	14.668 µg/mlm

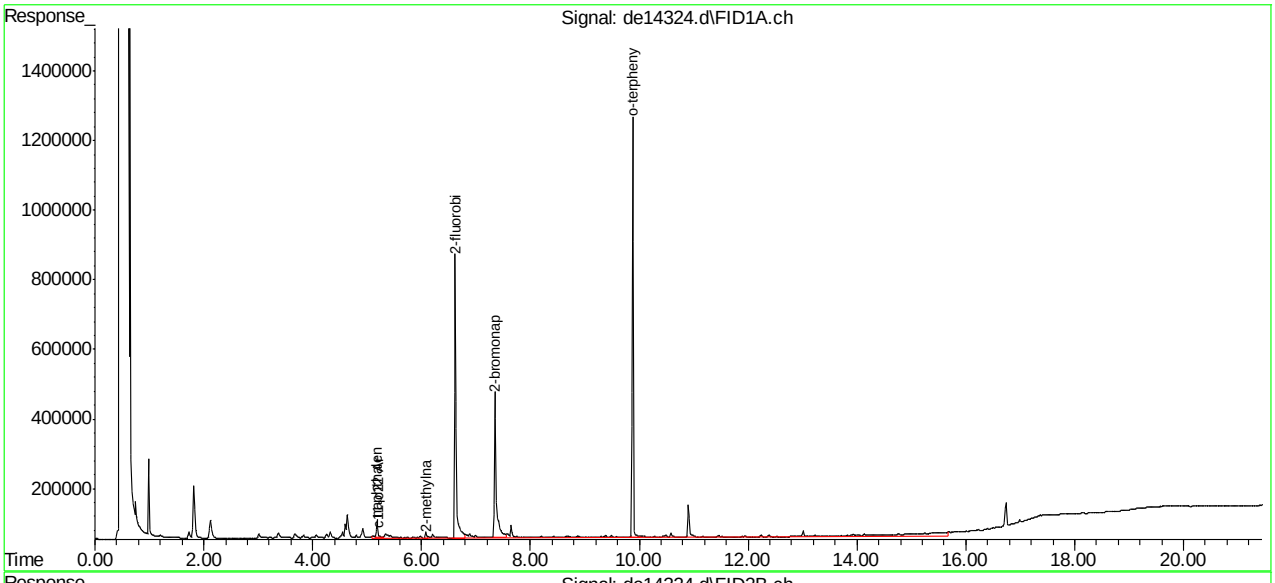
(f)=RT Delta > 1/2 Window (m)=manual int.

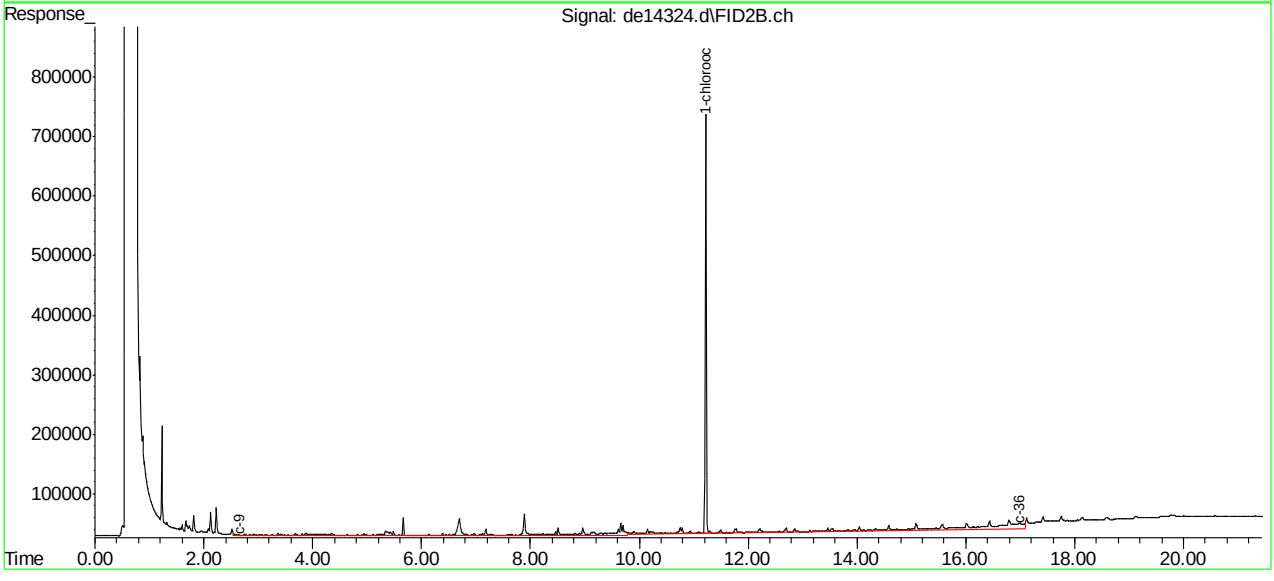
Quantitation Report (QT Reviewed)

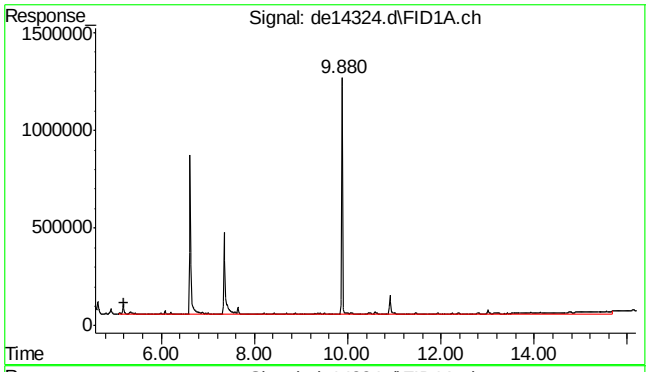
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14324.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 11:39 am
Operator : andrip
Sample : mc45816-6,op47572
Misc : op47572,gde801,11.31,,,2,,s
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 12:39:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

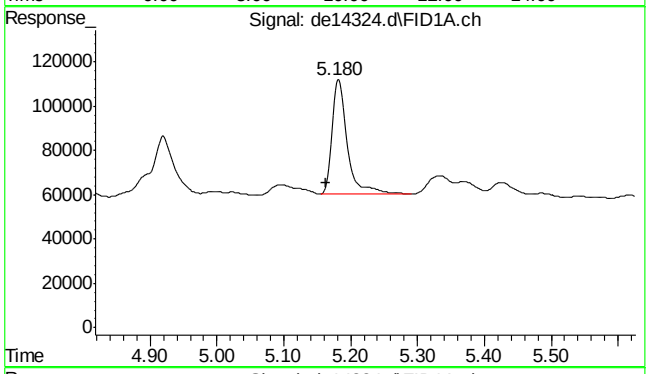






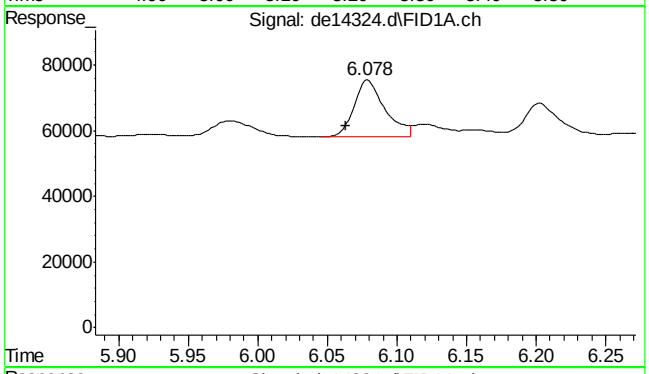
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2172244
Conc: 22.12 µg/ml m



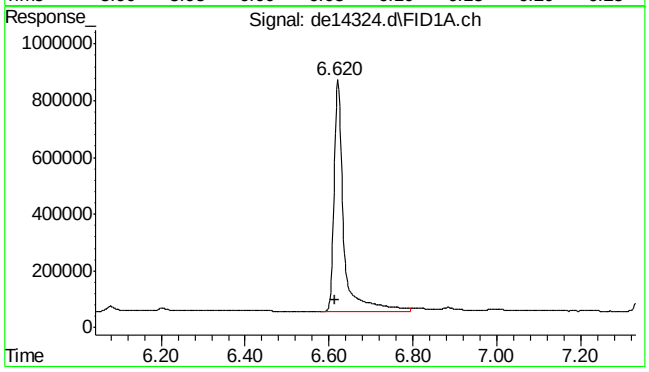
#2 naphthalene

R.T.: 5.180 min
Delta R.T.: 0.017 min
Response: 82490
Conc: 0.80 µg/ml



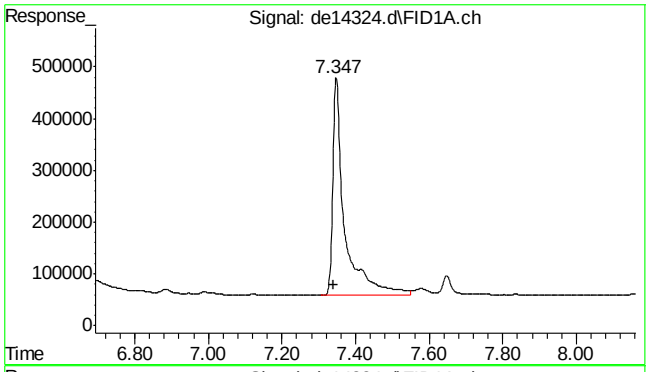
#3 2-methylnaphthalene

R.T.: 6.078 min
Delta R.T.: 0.015 min
Response: 27537
Conc: 0.27 µg/ml



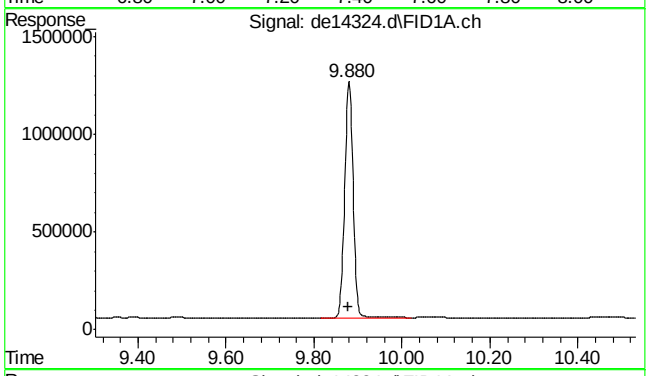
#4 2-fluorobiphenyl

R.T.: 6.620 min
Delta R.T.: 0.005 min
Response: 1306166
Conc: 14.16 µg/ml



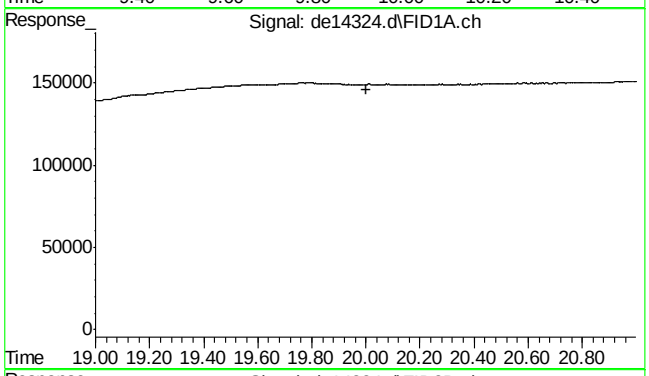
#6 2-bromonaphthalene

R.T.: 7.347 min
Delta R.T.: 0.005 min
Response: 941143
Conc: 15.00 µg/ml



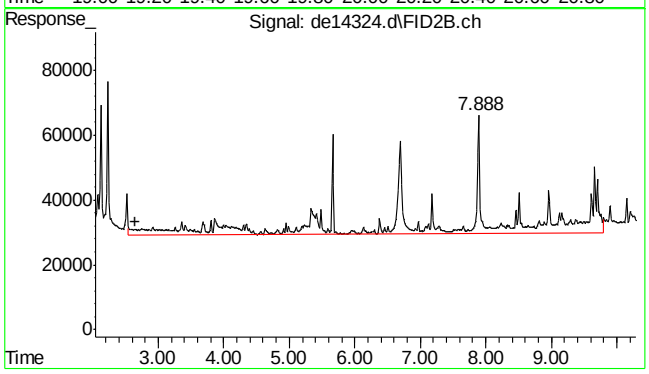
#11 o-terphenyl

R.T.: 9.880 min
Delta R.T.: 0.002 min
Response: 1609815
Conc: 15.72 µg/ml



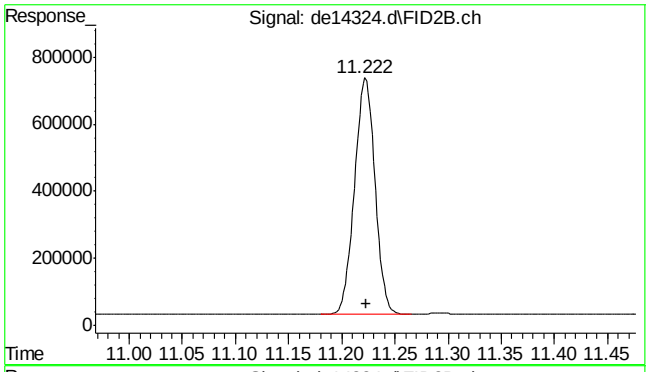
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



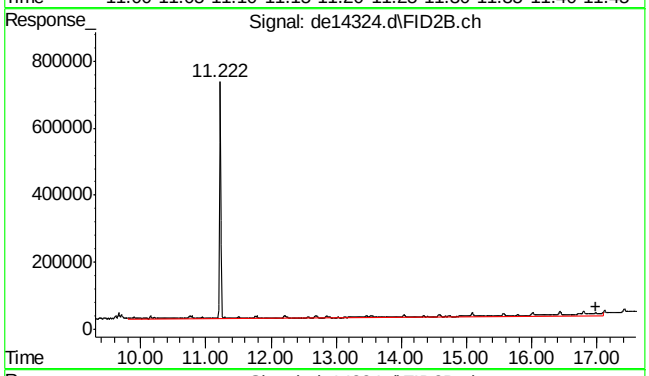
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1063212
Conc: 14.39 µg/ml m



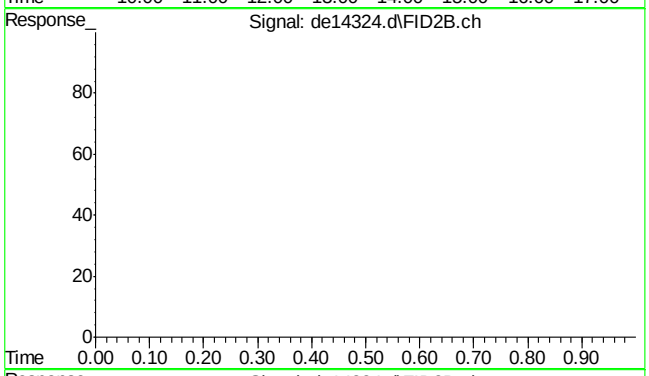
#35 1-chlorooctadecane

R.T.: 11.222 min
Delta R.T.: -0.002 min
Response: 945323
Conc: 16.71 µg/ml



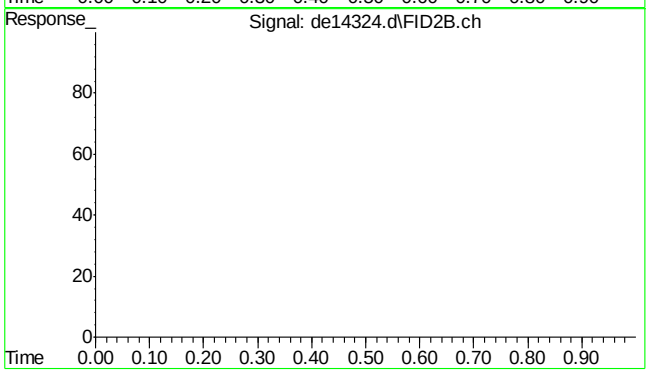
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 979916
Conc: 14.67 µg/ml m



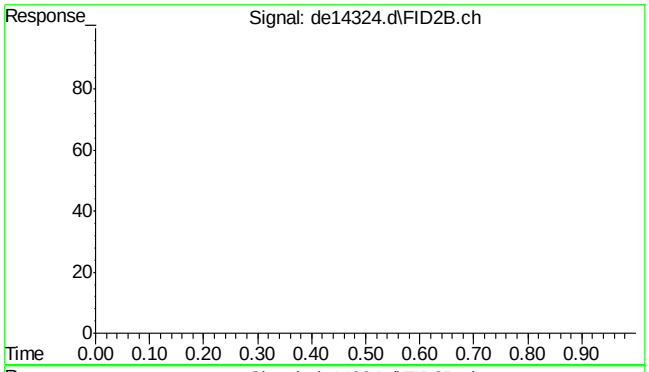
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



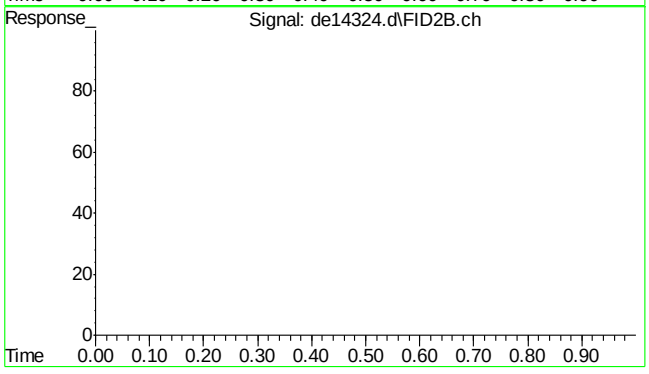
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
05/31/16 14:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14325.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 12:06 pm
Operator : andrip
Sample : mc45816-7,op47572
Misc : op47572,gde801,11.47,,,2,,s
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 12:41:07 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.618	1396056	15.137 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	75.69%#
6) s 2-bromonaphthalene	7.347	1115789	17.780 µg/mlm
Spiked Amount 20.000 Range 8 - 28		Recovery =	88.90%#
11) s o-terphenyl	9.880	1497016	14.616 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	73.08%#
35) s 1-chlorooctadecane	11.222	867620	15.336 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	76.68%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	32526874	331.215 µg/ml
2) naphthalene	5.178	98181	0.952 µg/ml
25) h c-9	2.647	89818567	1215.865 µg/mlm
41) h c-36	16.983	1800786	26.955 µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

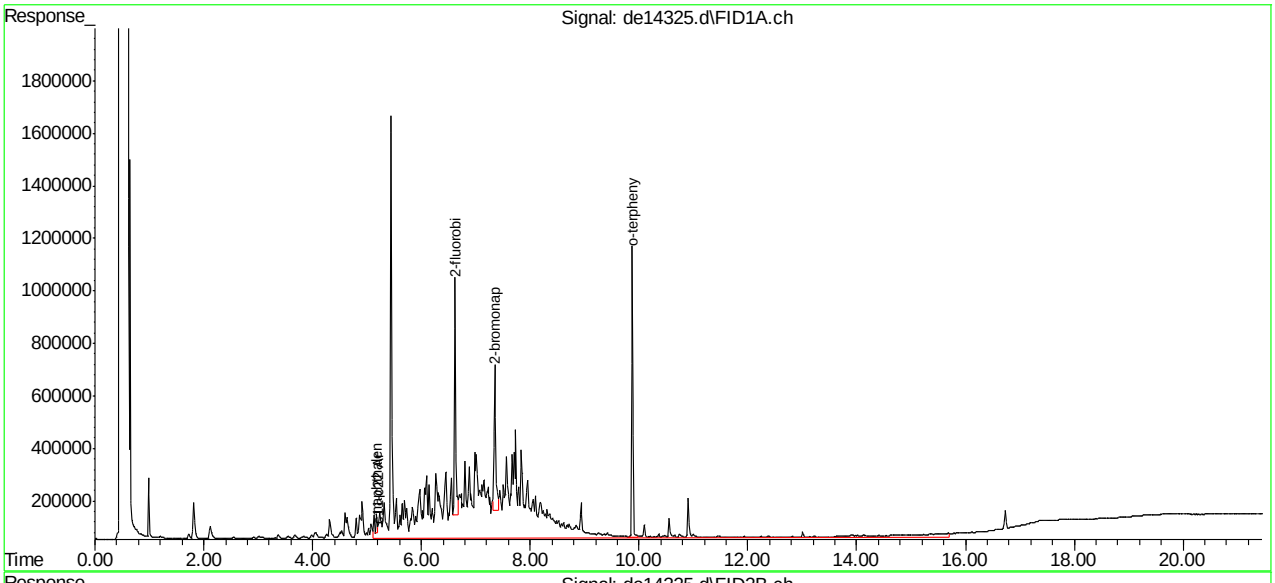
9.1.3
9

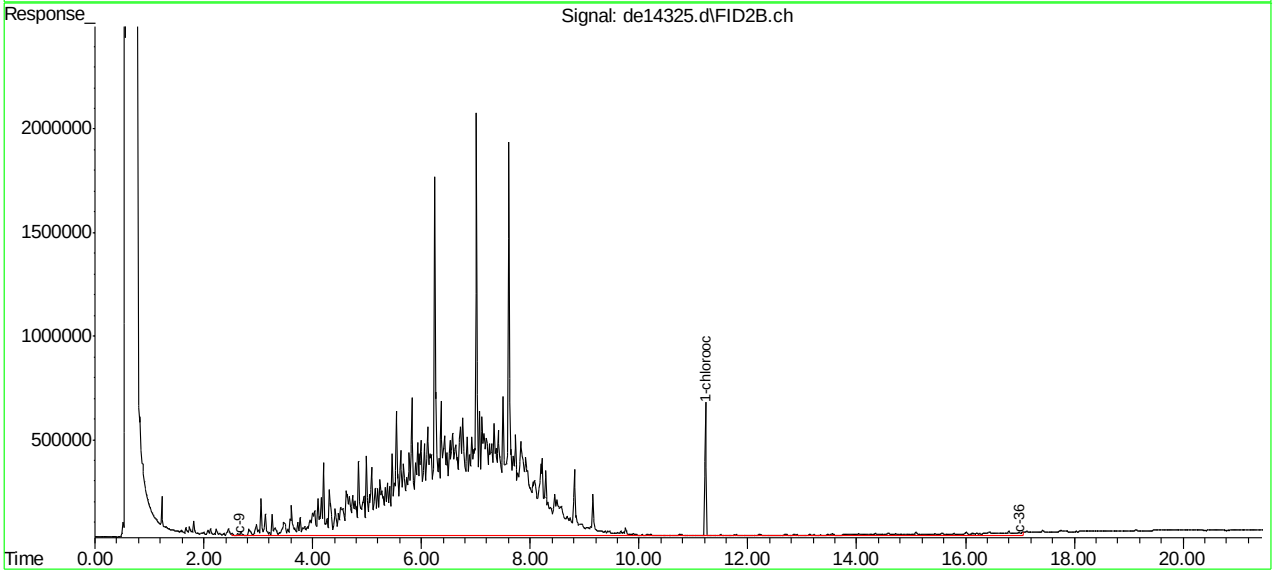
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14325.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 12:06 pm
Operator : andrip
Sample : mc45816-7,op47572
Misc : op47572,gde801,11.47,,,2,,s
ALS Vial : 18 Sample Multiplier: 1

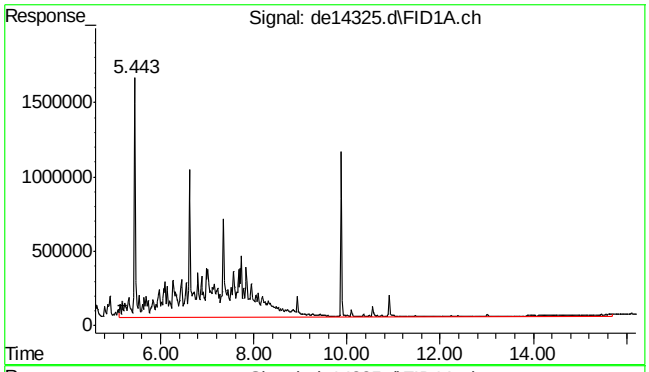
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 12:41:07 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



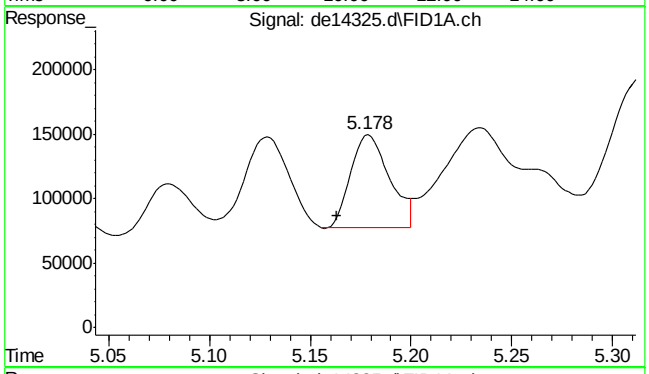


EPH160531W.M Tue May 31 12:42:51 2016 Page: 2



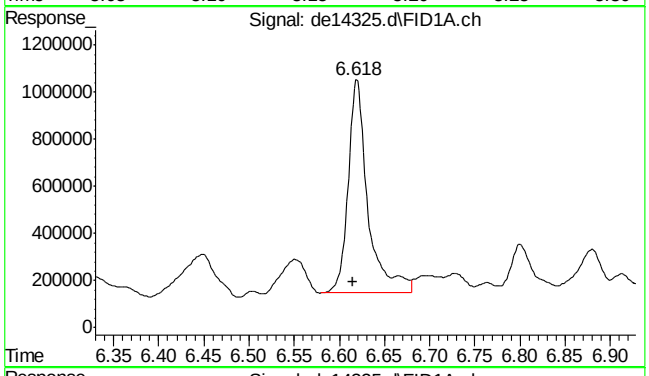
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 32526874
Conc: 331.22 µg/ml



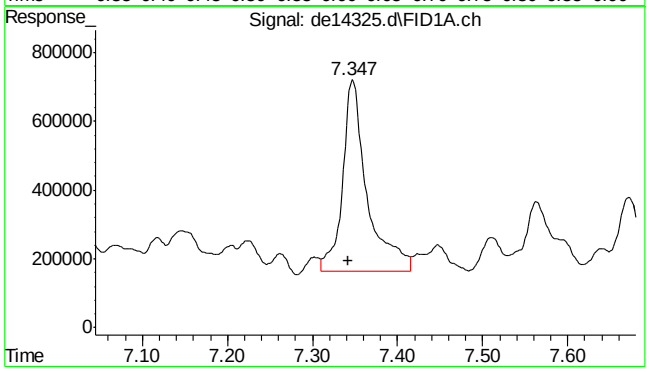
#2 naphthalene

R.T.: 5.178 min
Delta R.T.: 0.015 min
Response: 98181
Conc: 0.95 µg/ml



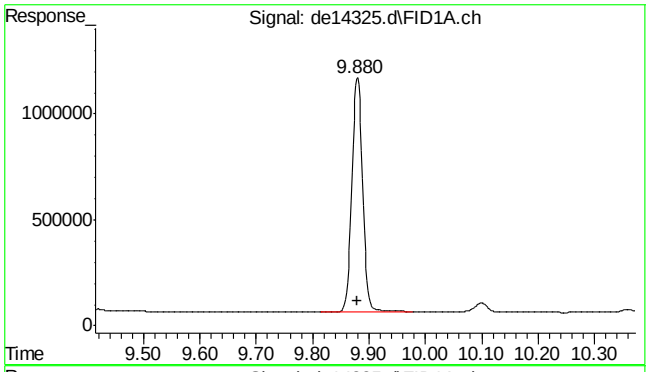
#4 2-fluorobiphenyl

R.T.: 6.618 min
Delta R.T.: 0.003 min
Response: 1396056
Conc: 15.14 µg/ml



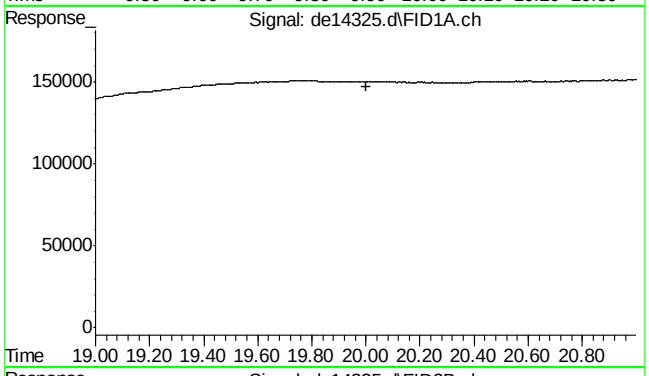
#6 2-bromonaphthalene

R.T.: 7.347 min
Delta R.T.: 0.005 min
Response: 1115789
Conc: 17.78 µg/ml m



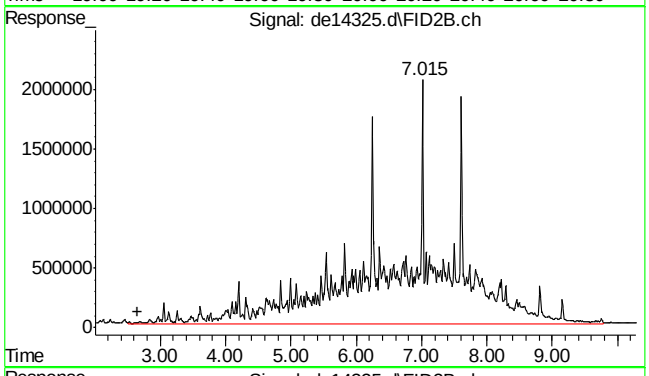
#11 o-terphenyl

R.T.: 9.880 min
Delta R.T.: 0.002 min
Response: 1497016
Conc: 14.62 µg/ml



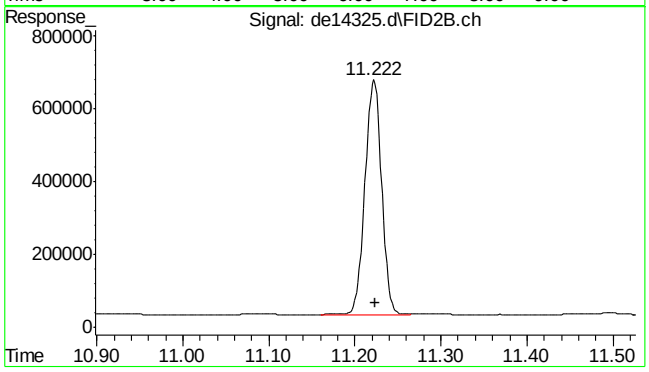
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



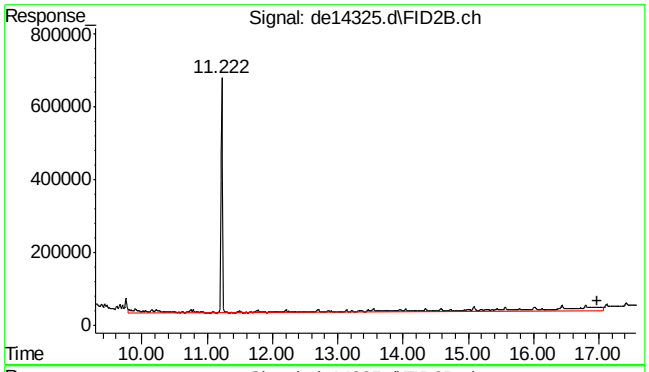
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 89818567
Conc: 1215.87 µg/ml m



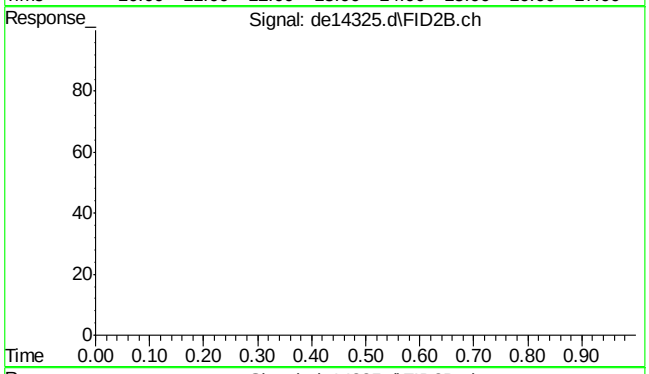
#35 1-chlorooctadecane

R.T.: 11.222 min
Delta R.T.: -0.002 min
Response: 867620
Conc: 15.34 µg/ml



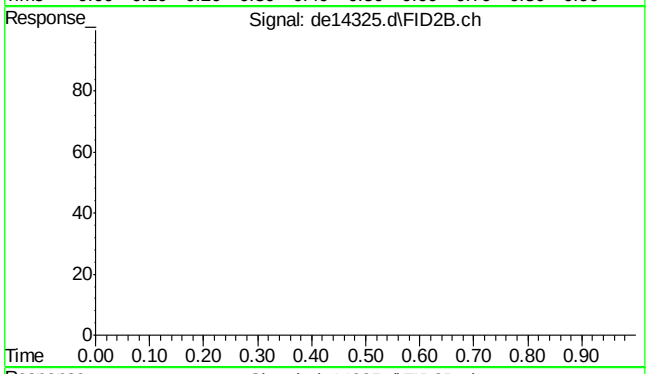
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1800786
Conc: 26.96 µg/ml m



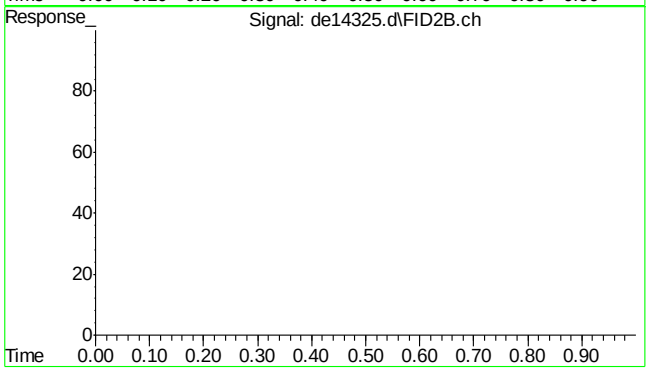
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



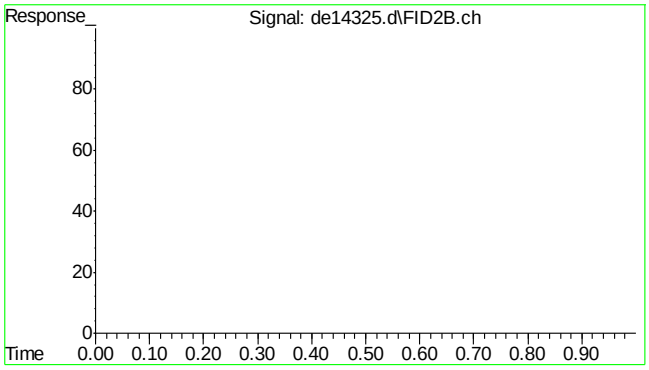
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.:	0.000 min
Exp R.T. :	23.000 min
Response:	0
Conc:	N.D.

9.1.3

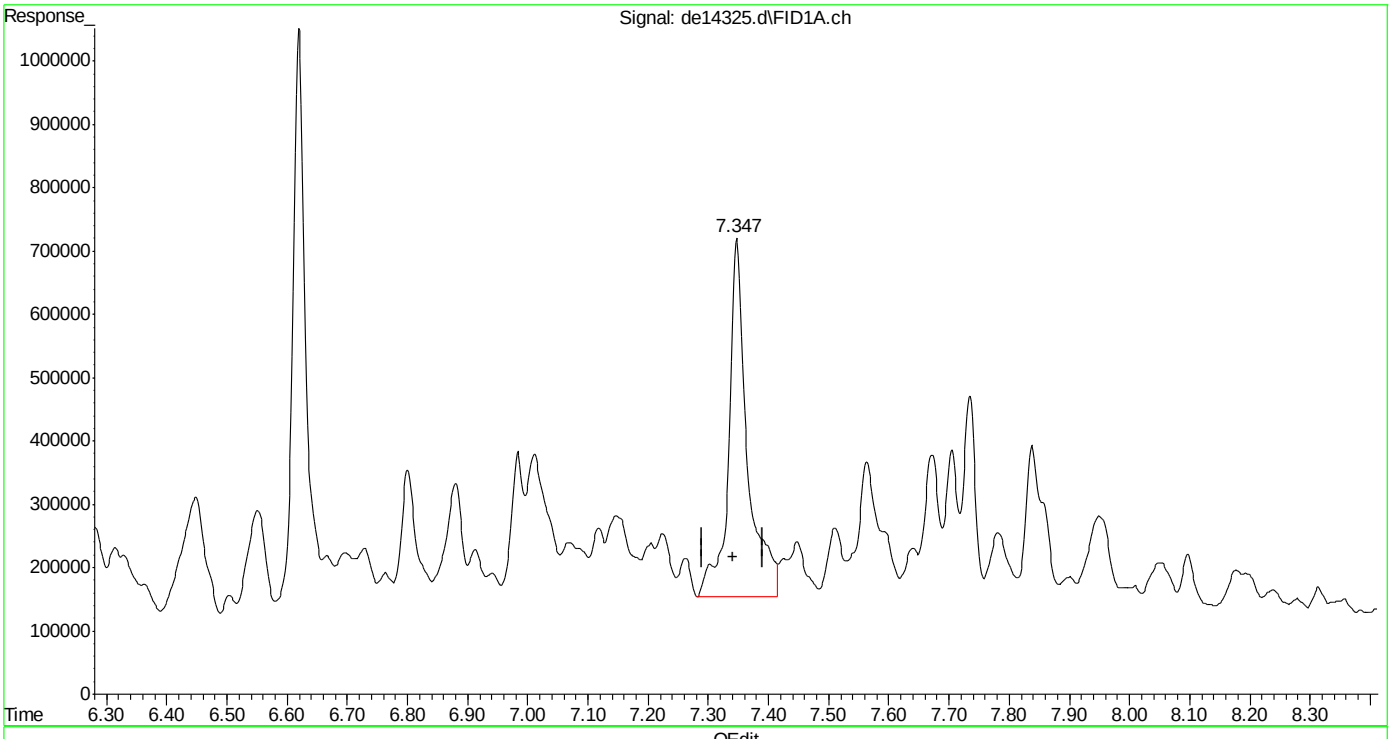
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14325.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 12:06 pm
Operator : andrip
Sample : mc45816-7,op47572
Misc : op47572,gde801,11.47,,,2,,s
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 12:39:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) 2-bromonaphthalene (s)
7.347min 19.678 µg/ml
response 1234883

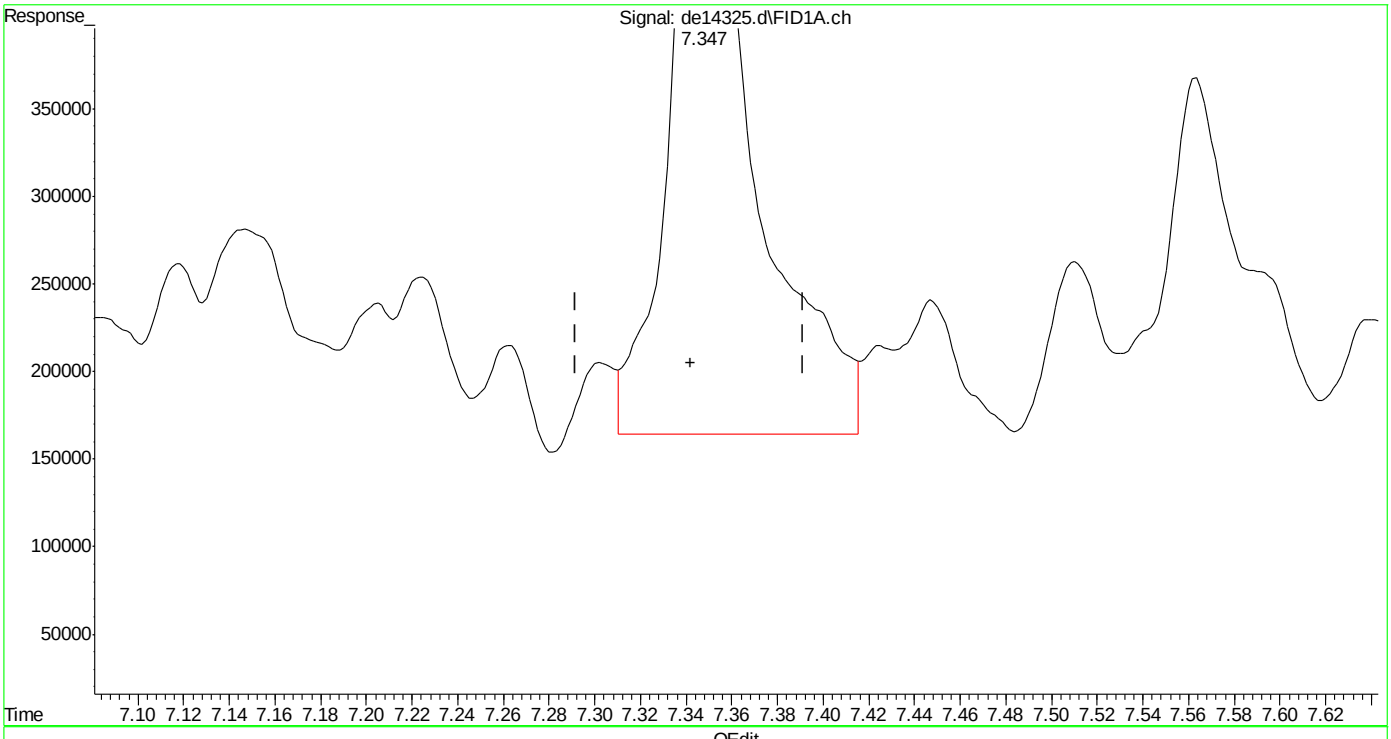
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14325.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 12:06 pm
Operator : andrip
Sample : mc45816-7,op47572
Misc : op47572,gde801,11.47,,,2,,s
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 12:39:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) 2-bromonaphthalene (s)
7.347min 17.780 µg/ml m
response 1115789

(+) = Expected Retention Time
EPH160531W.M Tue May 31 12:40:16 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14317.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 8:24 am
Operator : andrip
Sample : op47572-mb
Misc : op47572,gde801,11.63,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:51:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.615	1339541	14.524 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	72.62%#
6) s 2-bromonaphthalene	7.342	961247	15.317 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	76.59%#
11) s o-terphenyl	9.875	1457780	14.232 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	71.16%#
35) s 1-chlorooctadecane	11.222	785006	13.876 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	69.38%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2620750	26.687 µg/mlm
25) h c-9	2.647	1640174	22.203 µg/mlm
41) h c-36	16.983	1250858	18.724 µg/mlm

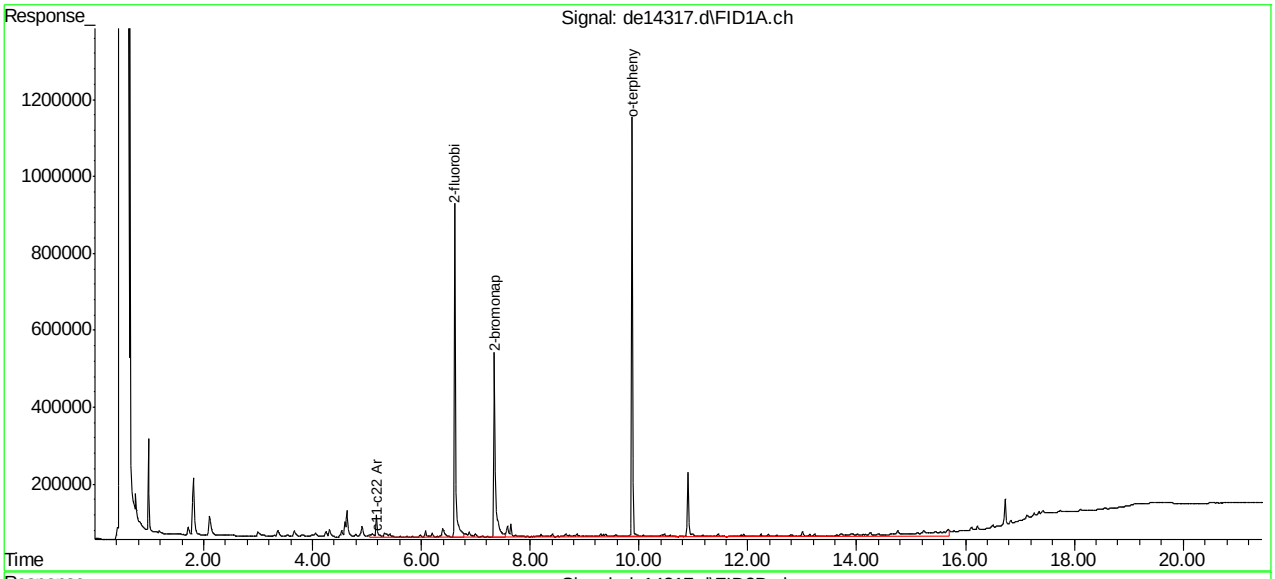
(f)=RT Delta > 1/2 Window (m)=manual int.

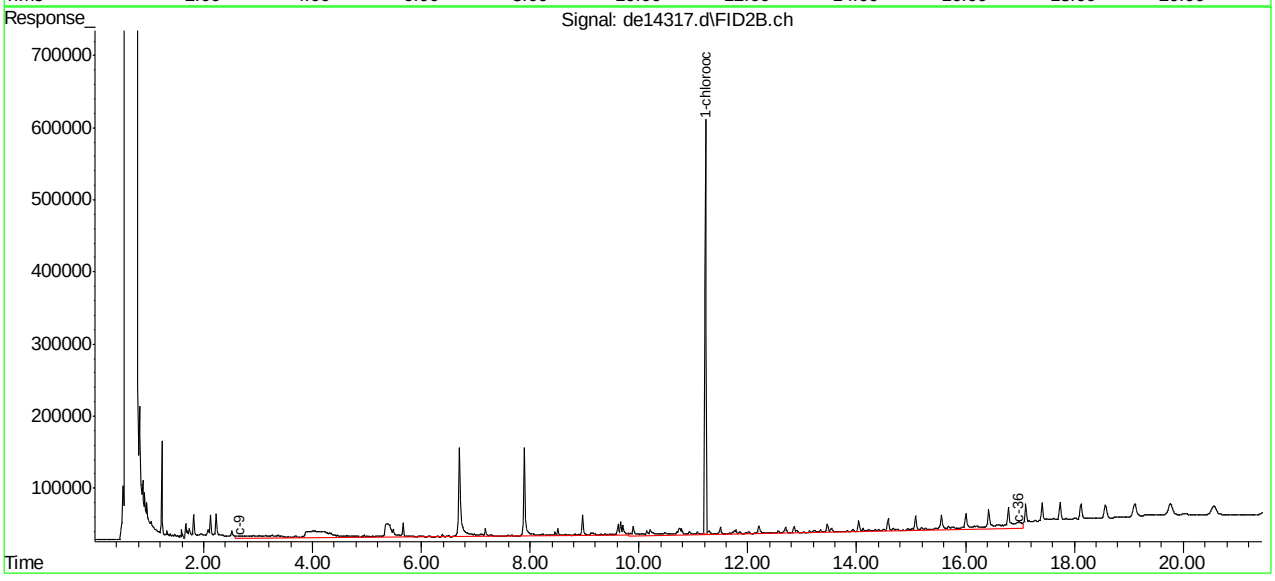
Quantitation Report (QT Reviewed)

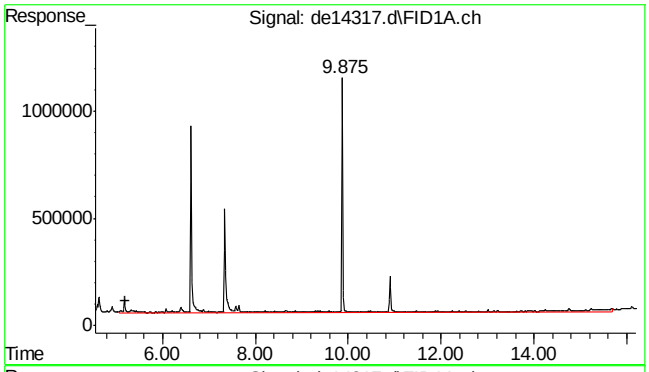
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14317.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 8:24 am
Operator : andrip
Sample : op47572-mb
Misc : op47572,gde801,11.63,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:51:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

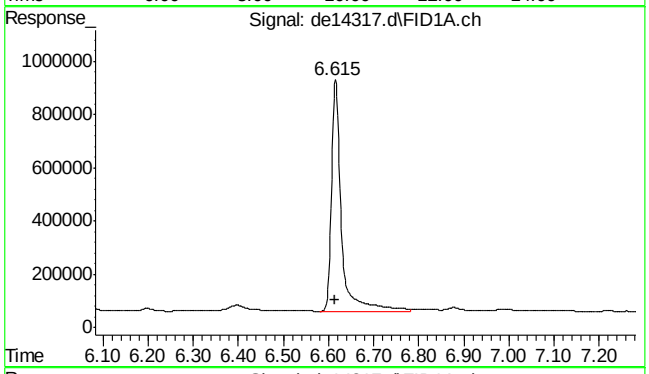






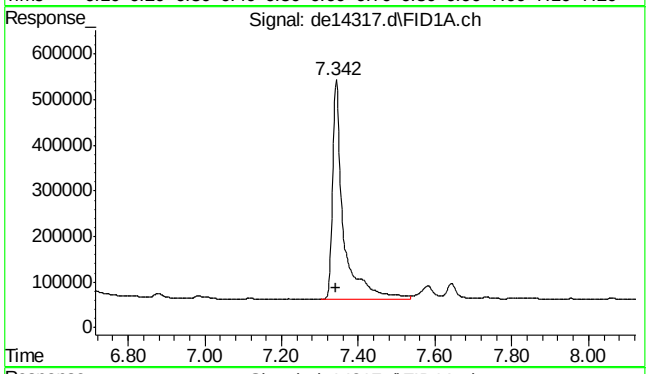
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2620750
Conc: 26.69 µg/ml m



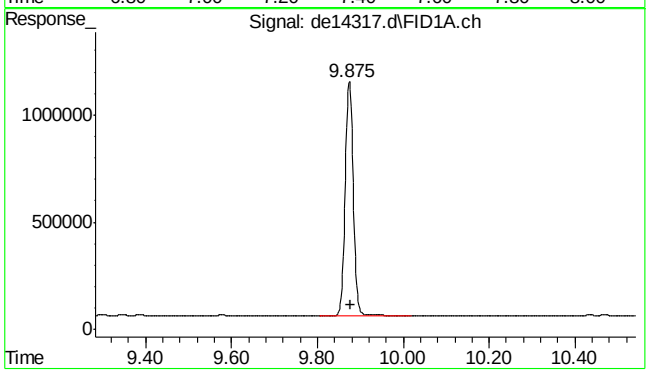
#4 2-fluorobiphenyl

R.T.: 6.615 min
Delta R.T.: 0.000 min
Response: 1339541
Conc: 14.52 µg/ml



#6 2-bromonaphthalene

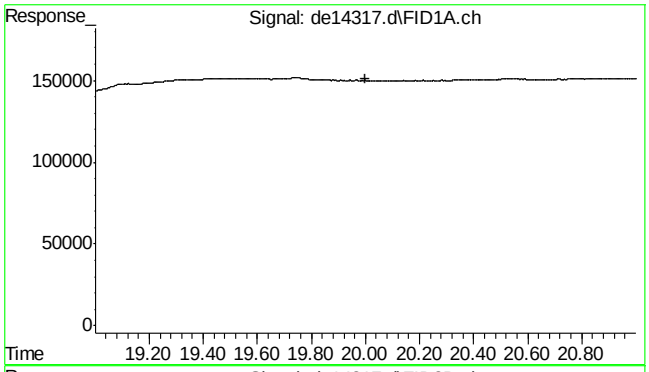
R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 961247
Conc: 15.32 µg/ml



#11 o-terphenyl

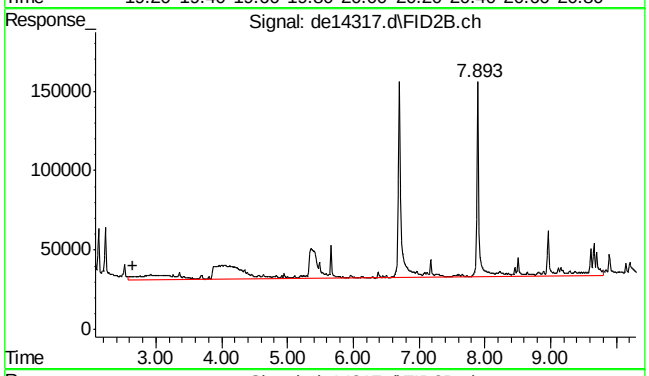
R.T.: 9.875 min
Delta R.T.: -0.003 min
Response: 1457780
Conc: 14.23 µg/ml

SGS ACCUTEST MC45816A



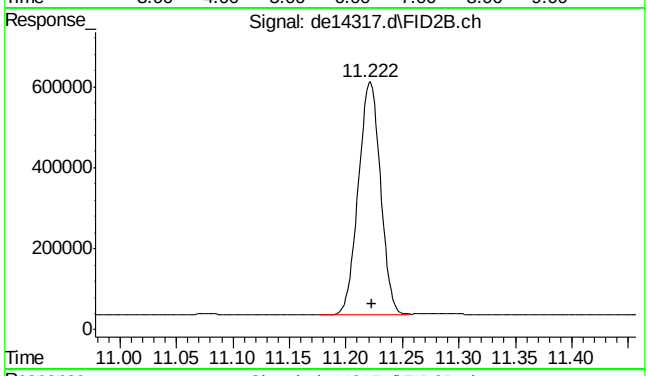
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



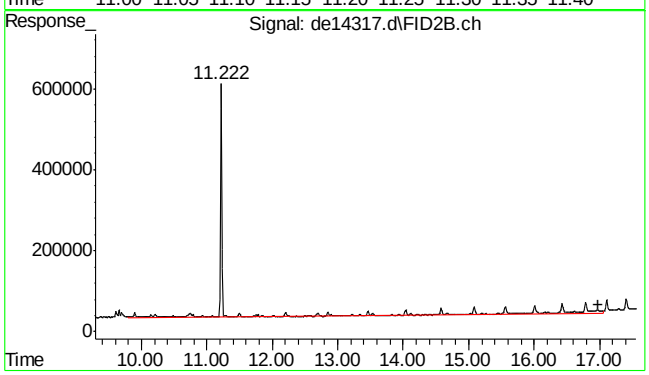
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1640174
Conc: 22.20 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.222 min
Delta R.T.: -0.002 min
Response: 785006
Conc: 13.88 µg/ml



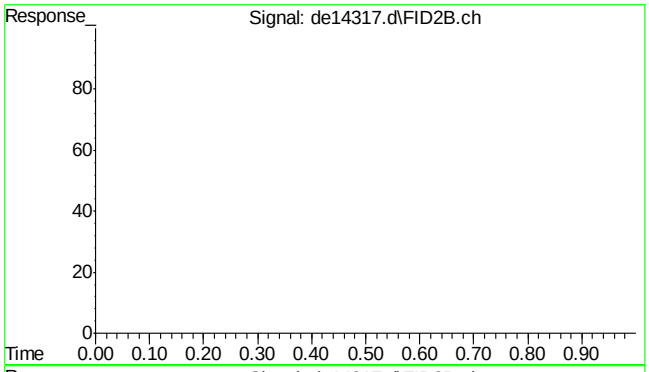
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1250858
Conc: 18.72 µg/ml m

9.2.1

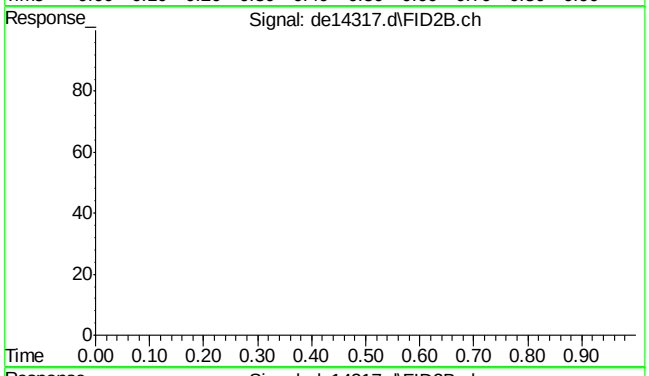
9

SGS ACCUTEST MC45816A



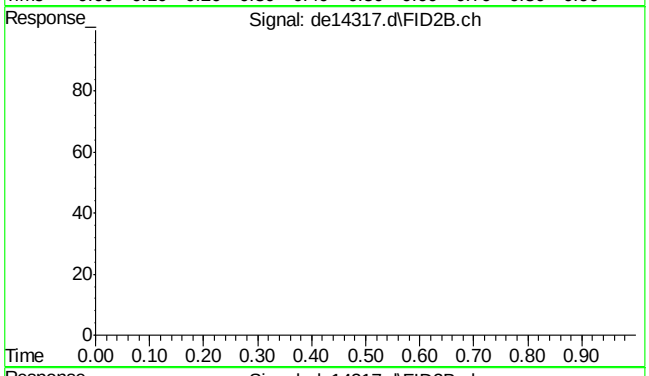
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



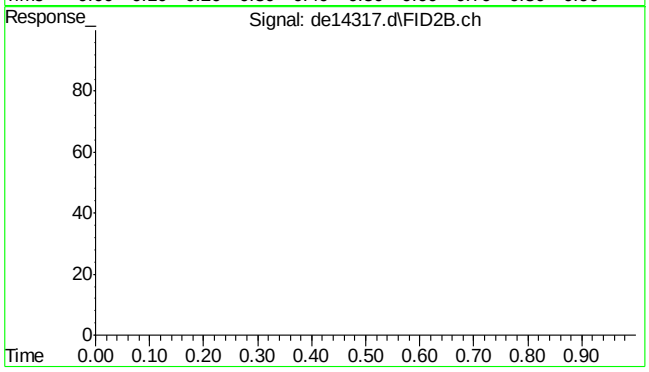
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
05/31/16 11:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14318.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 8:52 am
Operator : andrip
Sample : op47572-bs
Misc : op47572,gde801,11.56,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:53:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.618	1291182	14.000 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 70.00%#	
6) s 2-bromonaphthalene	7.343	807070	12.861 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 64.31%#	
11) s o-terphenyl	9.877	1582228	15.447 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 77.23%#	
35) s 1-chlorooctadecane	11.222	826132	14.602 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 73.01%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	31066888	316.349 µg/ml
2) naphthalene	5.168	1396193	13.537 µg/ml
3) 2-methylnaphthalene	6.065	1375629	13.423 µg/ml
5) acenaphthylene	7.175	1409213	14.008 µg/ml
7) acenaphthene	7.415	1660829	16.066 µg/ml
8) fluorene	8.058	1493193	14.701 µg/ml
9) phenanthrene	9.237	1504864	14.788 µg/ml
10) anthracene	9.293	1717272	17.702 µg/mlm
12) fluoranthene	10.737	1723307	17.243 µg/ml
13) pyrene	10.995	1727458	17.026 µg/ml
14) benzo(a)anthracene	12.557	1730706	17.902 µg/ml
15) chrysene	12.603	1762280	18.104 µg/ml
16) benzo(B)fluoranthene	13.852	1754587	17.723 µg/ml
17) benzo(k)fluoranthene	13.880	1716699	18.166 µg/ml
18) benzo(a)pyrene	14.185	1718325	18.589 µg/ml
19) indeno(1,2,3-cd)pyrene	15.325	1730234	18.279 µg/ml
20) dibenzo(ah)anthracene	15.365	1663826	18.204 µg/ml
21) benzo(ghi)perylene	15.543	1709344	18.555 µg/ml
25) h c-9	2.647	997257	13.500 µg/mlm
26) h c-10	3.815	1135591	15.372 µg/mlm
27) naphthalene #2	5.485	11397	0.143 µg/ml
28) c-12	5.662	1209698	16.376 µg/ml
29) 2-methylnaphthalene #2	6.380	5787	0.072 µg/ml
30) c-14	7.178	1201251	16.261 µg/ml
31) c-16	8.508	1228231	16.626 µg/ml
32) c-18	9.702	1328712	17.987 µg/ml
33) c-19	10.257	1346762	20.159 µg/ml
34) c-20	10.787	1383512	20.709 µg/ml
36) c-22	11.782	1392188	20.839 µg/ml
37) c-24	12.700	1378938	20.641 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14318.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 8:52 am
Operator : andrip
Sample : op47572-bs
Misc : op47572,gde801,11.56,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:53:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.552	1345038	20.133	µg/ml
39)		c-28	14.345	1312053	19.640	µg/ml
40)	h	c-30	15.098	1273094	19.056	µg/mlm
41)	h	c-36	16.983	759195	11.364	µg/mlm

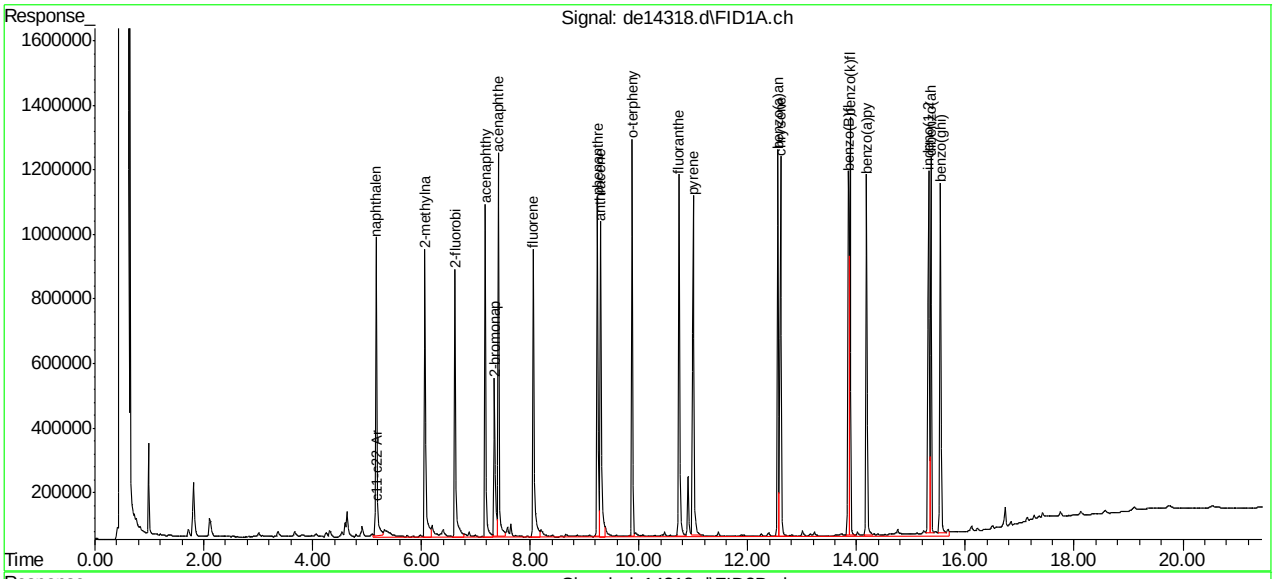
(f)=RT Delta > 1/2 Window (m)=manual int.

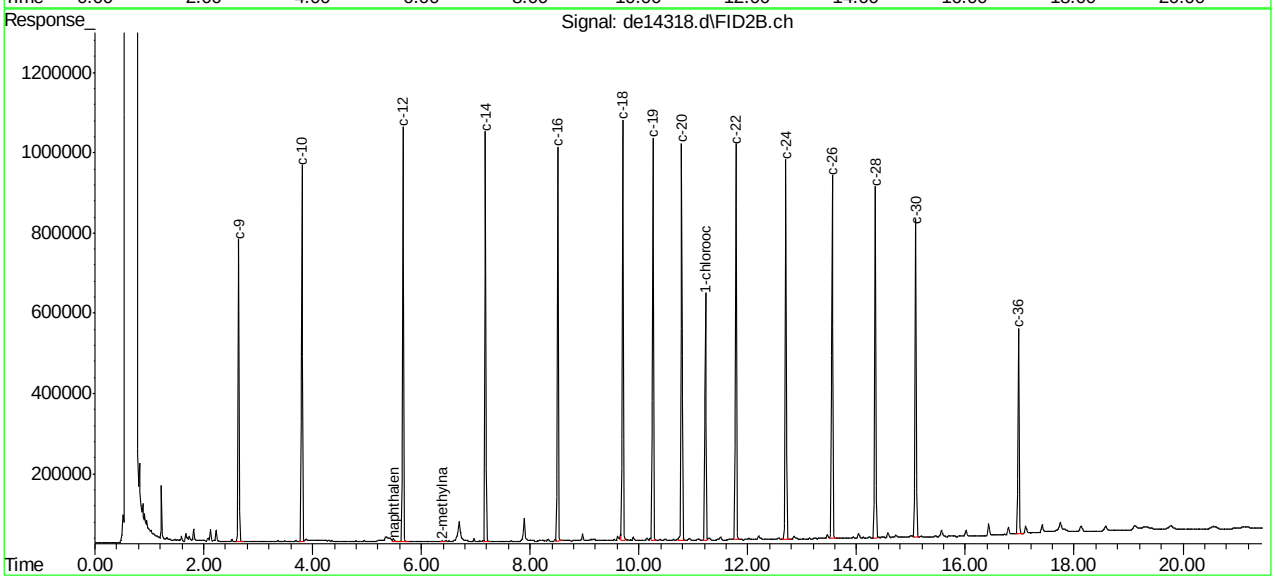
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14318.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 8:52 am
Operator : andrip
Sample : op47572-bs
Misc : op47572,gde801,11.56,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

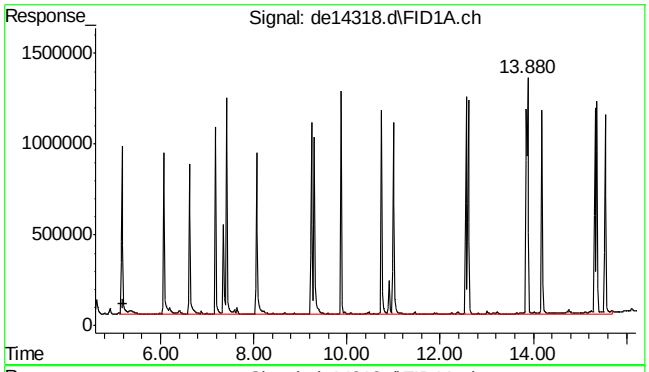
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:53:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



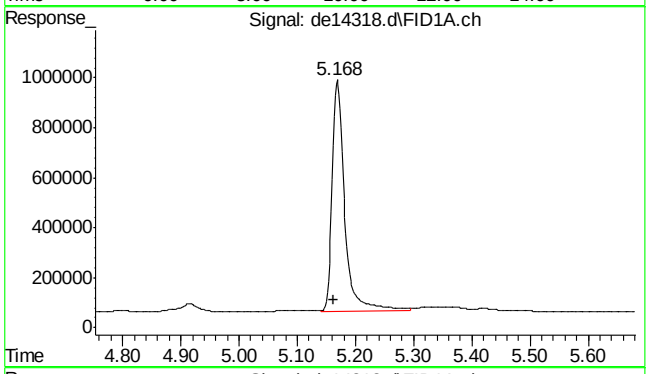


SGS ACCUTEST MC45816A



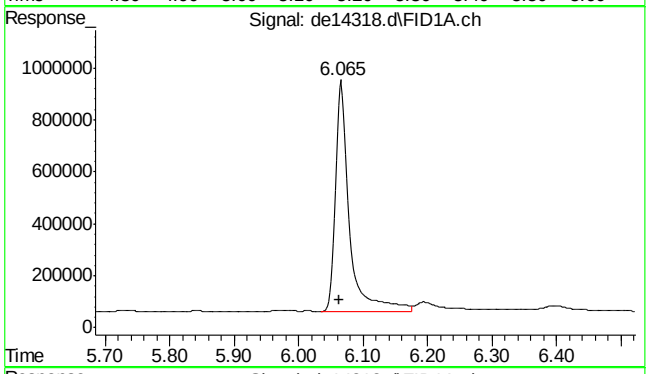
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 31066888
Conc: 316.35 µg/ml



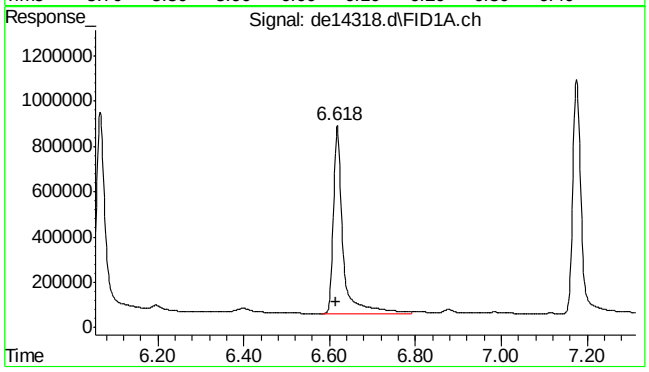
#2 naphthalene

R.T.: 5.168 min
Delta R.T.: 0.005 min
Response: 1396193
Conc: 13.54 µg/ml



#3 2-methylnaphthalene

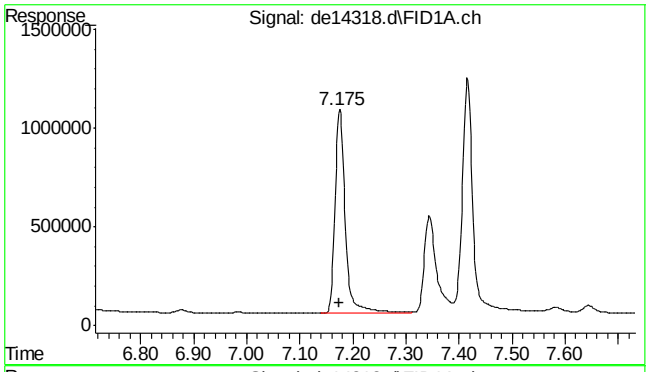
R.T.: 6.065 min
Delta R.T.: 0.002 min
Response: 1375629
Conc: 13.42 µg/ml



#4 2-fluorobiphenyl

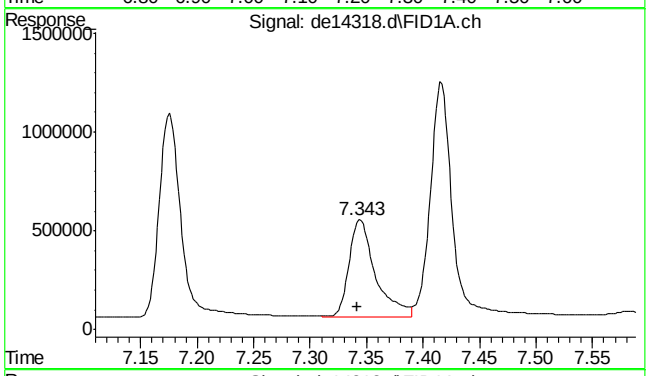
R.T.: 6.618 min
Delta R.T.: 0.003 min
Response: 1291182
Conc: 14.00 µg/ml

SGS ACCUTEST MC45816A



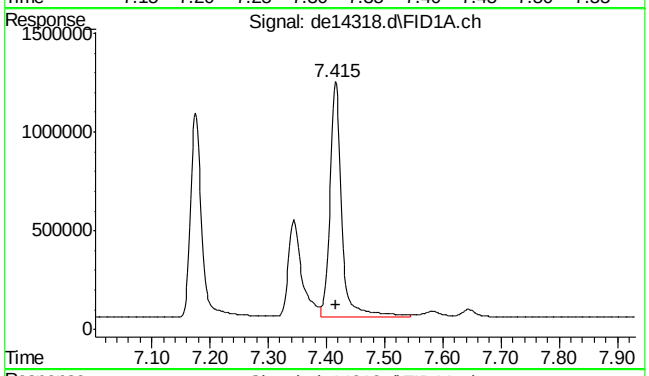
#5 acenaphthylene

R.T.: 7.175 min
Delta R.T.: 0.000 min
Response: 1409213
Conc: 14.01 µg/ml



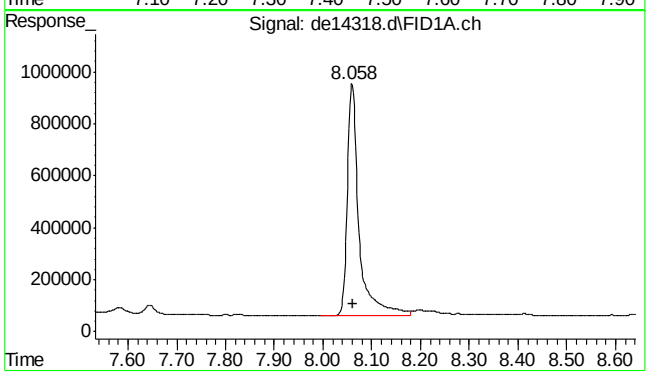
#6 2-bromonaphthalene

R.T.: 7.343 min
Delta R.T.: 0.002 min
Response: 807070
Conc: 12.86 µg/ml



#7 acenaphthene

R.T.: 7.415 min
Delta R.T.: -0.002 min
Response: 1660829
Conc: 16.07 µg/ml



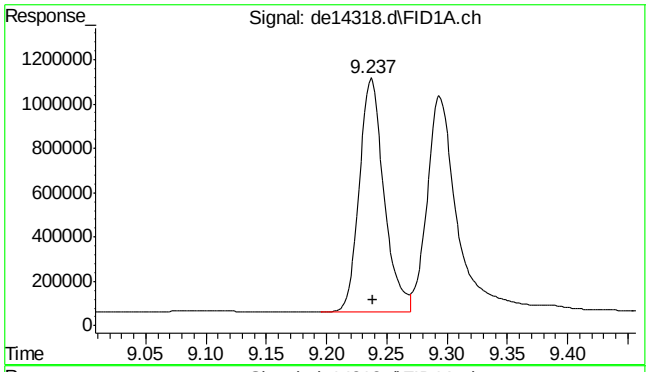
#8 fluorene

R.T.: 8.058 min
Delta R.T.: -0.002 min
Response: 1493193
Conc: 14.70 µg/ml

9.3.1

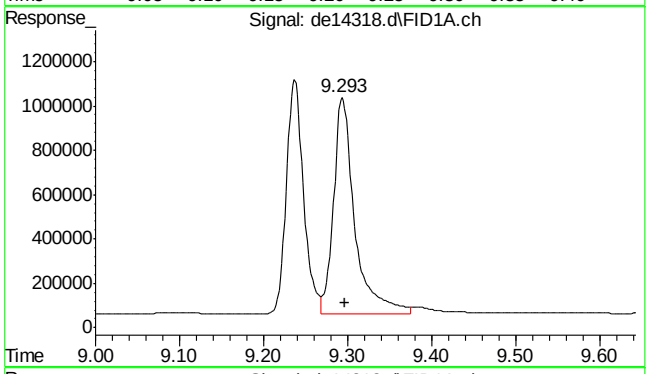
9

SGS ACCUTEST MC45816A



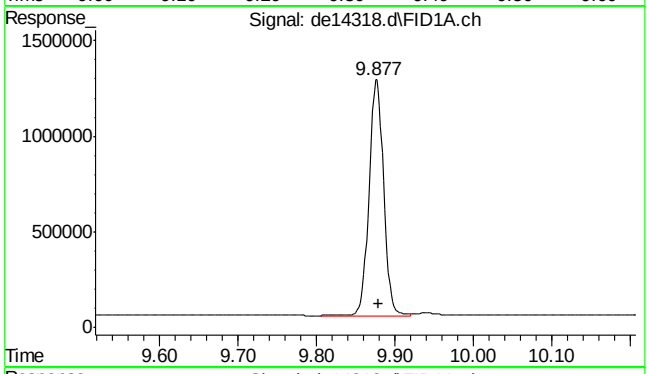
#9 phenanthrene

R.T.: 9.237 min
Delta R.T.: -0.002 min
Response: 1504864
Conc: 14.79 µg/ml



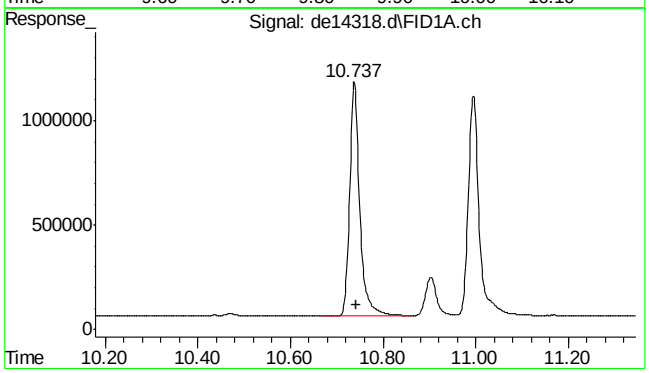
#10 anthracene

R.T.: 9.293 min
Delta R.T.: -0.003 min
Response: 1717272
Conc: 17.70 µg/ml m



#11 o-terphenyl

R.T.: 9.877 min
Delta R.T.: -0.002 min
Response: 1582228
Conc: 15.45 µg/ml



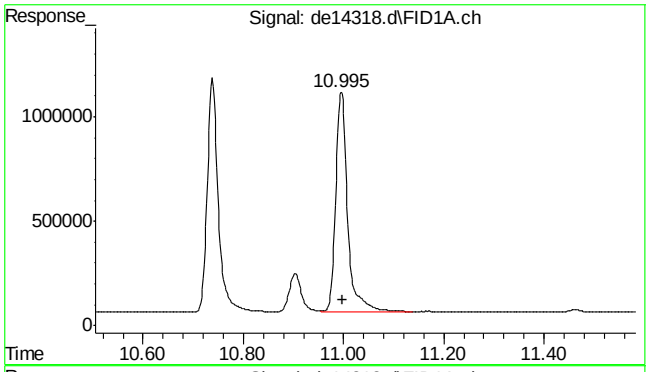
#12 fluoranthene

R.T.: 10.737 min
Delta R.T.: -0.005 min
Response: 1723307
Conc: 17.24 µg/ml

9.3.1

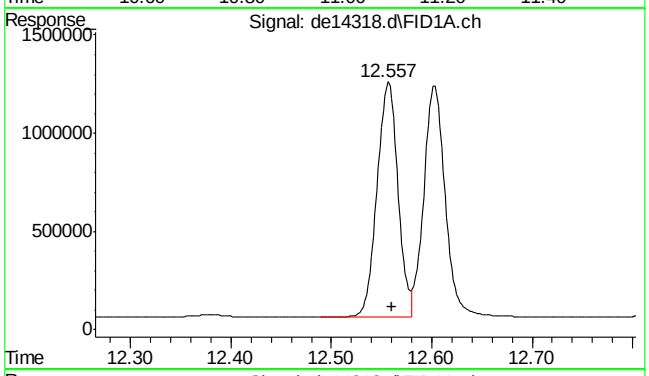
9

SGS ACCUTEST MC45816A



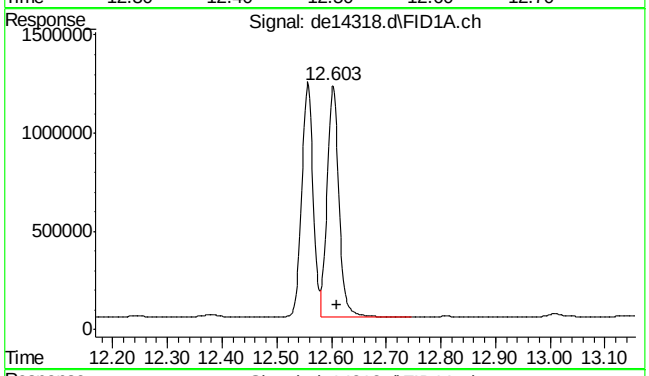
#13 pyrene

R.T.: 10.995 min
Delta R.T.: -0.003 min
Response: 1727458
Conc: 17.03 µg/ml



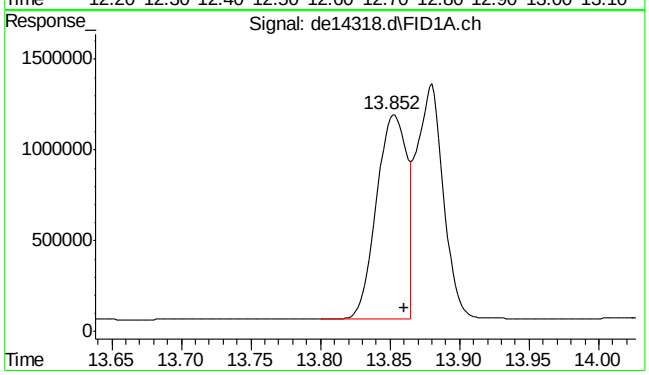
#14 benzo(a)anthracene

R.T.: 12.557 min
Delta R.T.: -0.003 min
Response: 1730706
Conc: 17.90 µg/ml



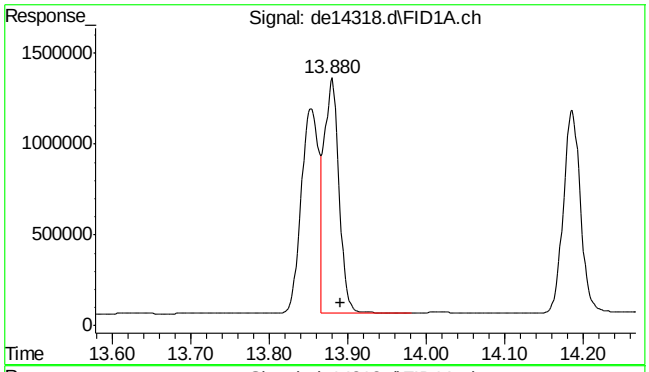
#15 chrysene

R.T.: 12.603 min
Delta R.T.: -0.007 min
Response: 1762280
Conc: 18.10 µg/ml



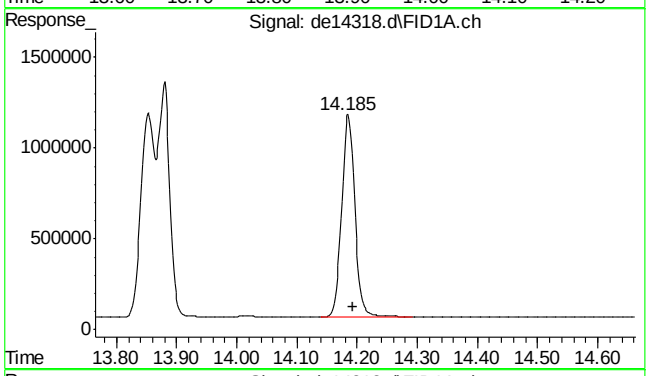
#16 benzo(B)fluoranthene

R.T.: 13.852 min
Delta R.T.: -0.008 min
Response: 1754587
Conc: 17.72 µg/ml



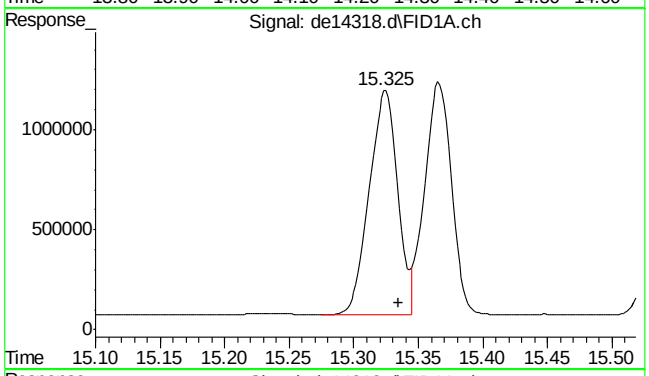
#17 benzo(k)fluoranthene

R.T.: 13.880 min
Delta R.T.: -0.010 min
Response: 1716699
Conc: 18.17 µg/ml



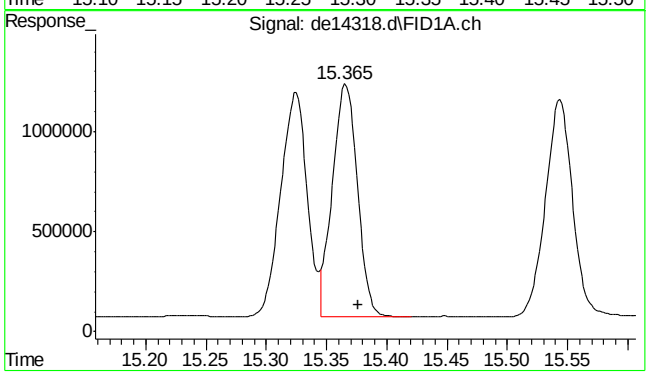
#18 benzo(a)pyrene

R.T.: 14.185 min
Delta R.T.: -0.008 min
Response: 1718325
Conc: 18.59 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.325 min
Delta R.T.: -0.010 min
Response: 1730234
Conc: 18.28 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.365 min
Delta R.T.: -0.012 min
Response: 1663826
Conc: 18.20 µg/ml

9.3.1

9

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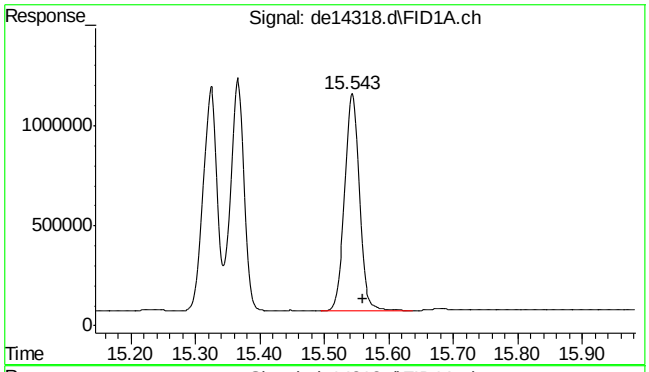
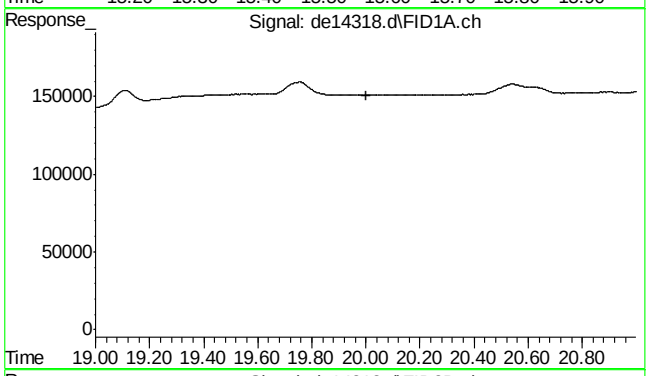


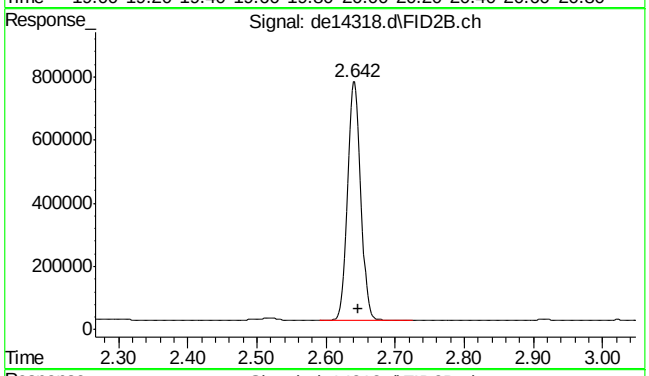
#21 benzo(ghi)perylene

R.T.: 15.543 min
Delta R.T.: -0.017 min
Response: 1709344
Conc: 18.55 µg/ml



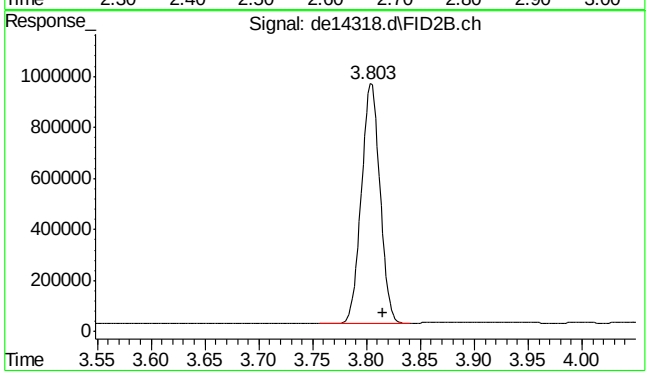
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 997257
Conc: 13.50 µg/ml m



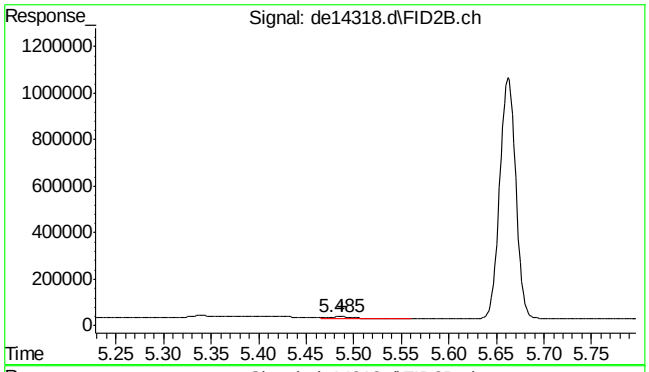
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1135591
Conc: 15.37 µg/ml m

9.3.1

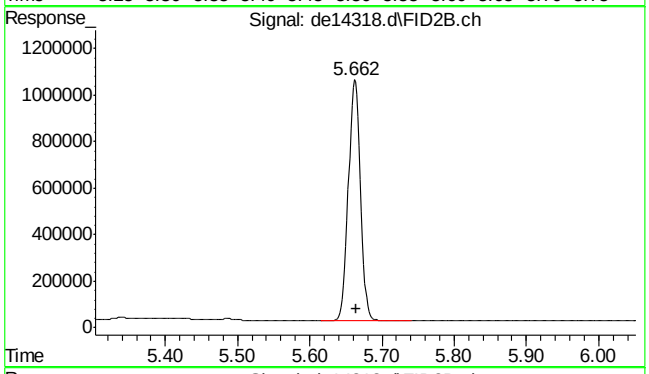
9

SGS ACCUTEST MC45816A



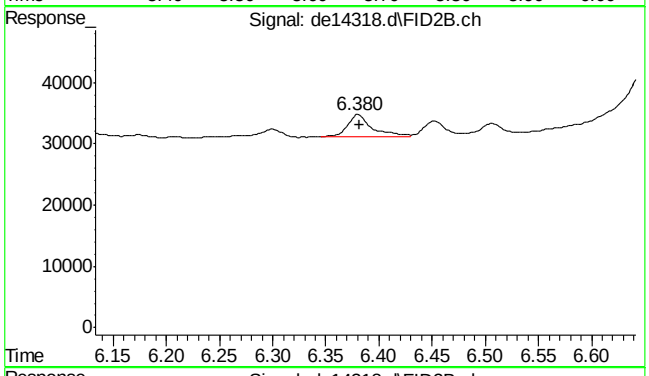
#27 naphthalene #2

R.T.: 5.485 min
Delta R.T.: -0.003 min
Response: 11397
Conc: 0.14 µg/ml



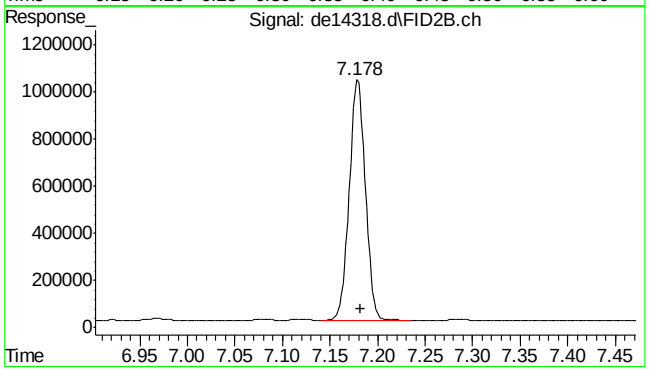
#28 c-12

R.T.: 5.662 min
Delta R.T.: -0.003 min
Response: 1209698
Conc: 16.38 µg/ml



#29 2-methylnaphthalene #2

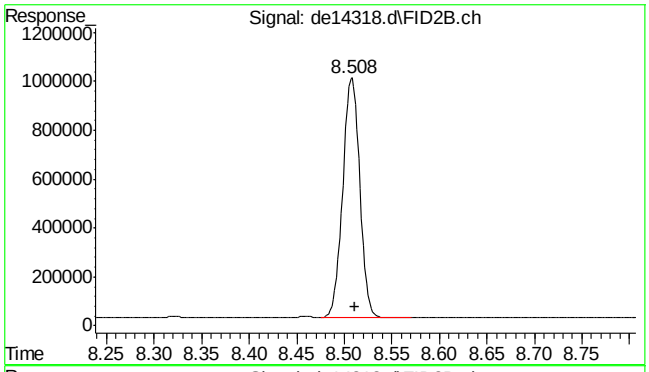
R.T.: 6.380 min
Delta R.T.: -0.002 min
Response: 5787
Conc: 0.07 µg/ml



#30 c-14

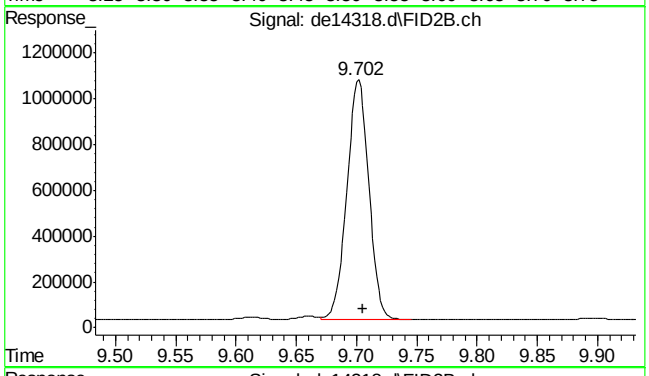
R.T.: 7.178 min
Delta R.T.: -0.003 min
Response: 1201251
Conc: 16.26 µg/ml

SGS ACCUTEST MC45816A



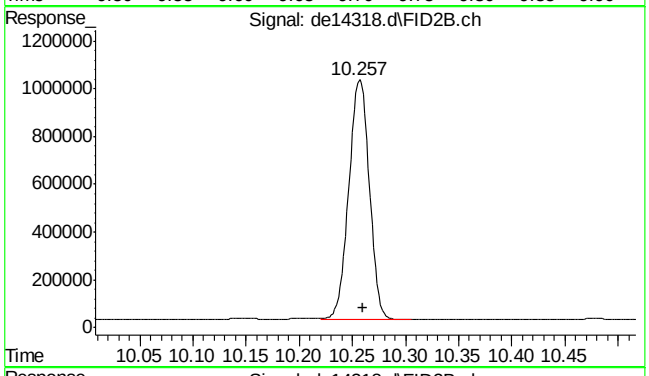
#31 c-16

R.T.: 8.508 min
Delta R.T.: -0.003 min
Response: 1228231
Conc: 16.63 µg/ml



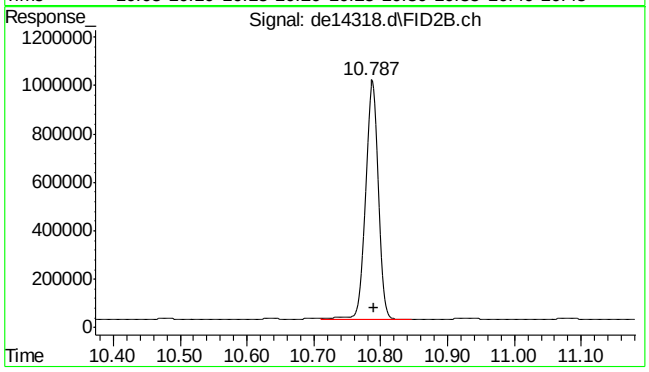
#32 c-18

R.T.: 9.702 min
Delta R.T.: -0.003 min
Response: 1328712
Conc: 17.99 µg/ml



#33 c-19

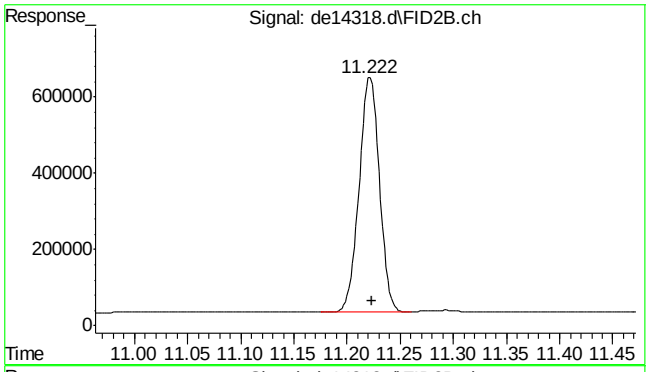
R.T.: 10.257 min
Delta R.T.: -0.003 min
Response: 1346762
Conc: 20.16 µg/ml



#34 c-20

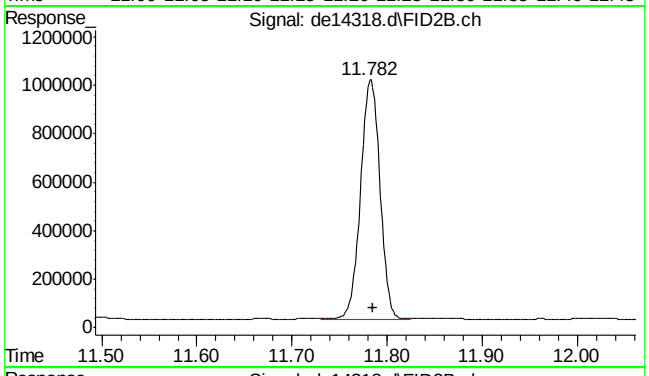
R.T.: 10.787 min
Delta R.T.: -0.003 min
Response: 1383512
Conc: 20.71 µg/ml

SGS ACCUTEST MC45816A



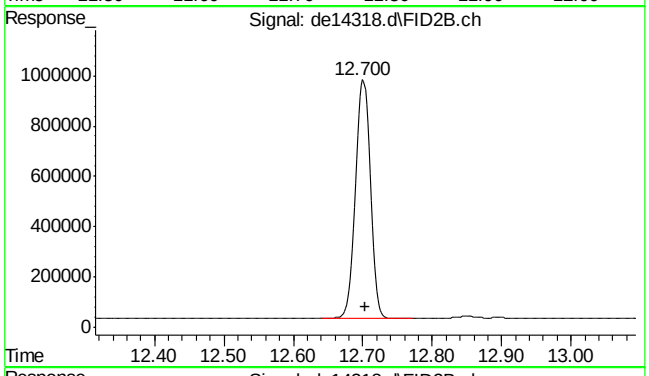
#35 1-chlorooctadecane

R.T.: 11.222 min
Delta R.T.: -0.002 min
Response: 826132
Conc: 14.60 µg/ml



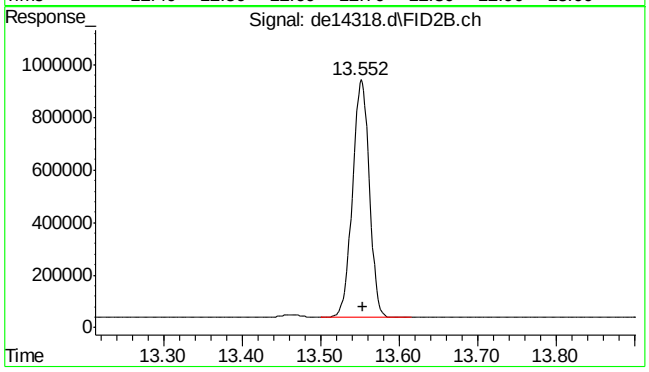
#36 c-22

R.T.: 11.782 min
Delta R.T.: -0.003 min
Response: 1392188
Conc: 20.84 µg/ml



#37 c-24

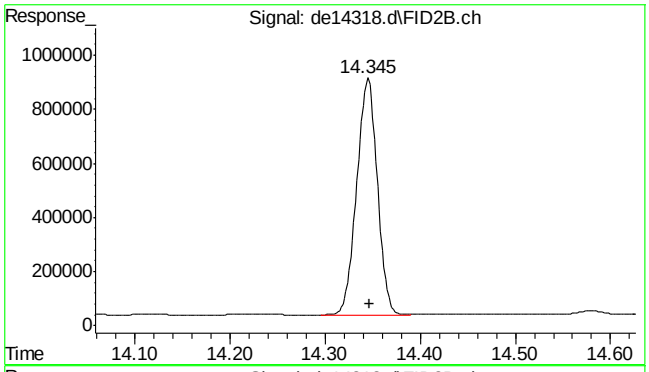
R.T.: 12.700 min
Delta R.T.: -0.003 min
Response: 1378938
Conc: 20.64 µg/ml



#38 c-26

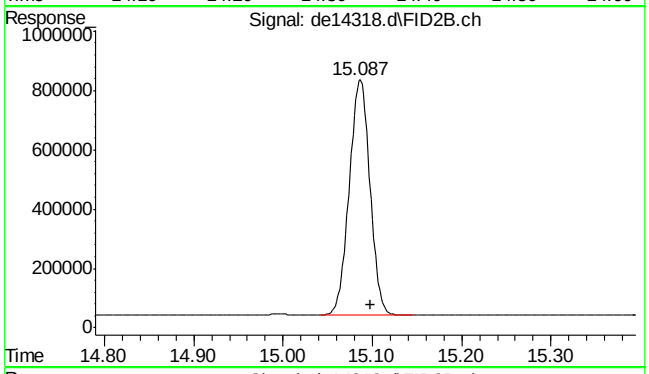
R.T.: 13.552 min
Delta R.T.: -0.002 min
Response: 1345038
Conc: 20.13 µg/ml

SGS ACCUTEST MC45816A



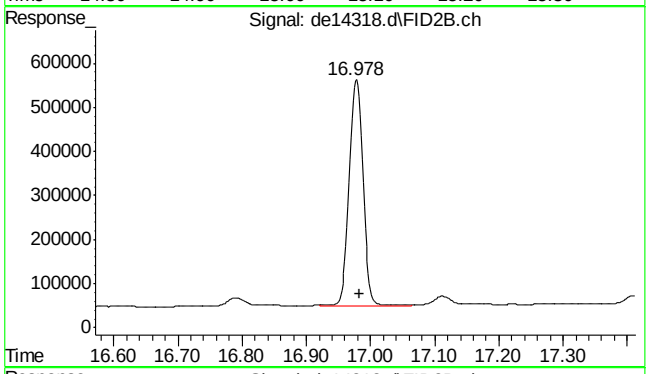
#39 c-28

R.T.: 14.345 min
Delta R.T.: -0.002 min
Response: 1312053
Conc: 19.64 µg/ml



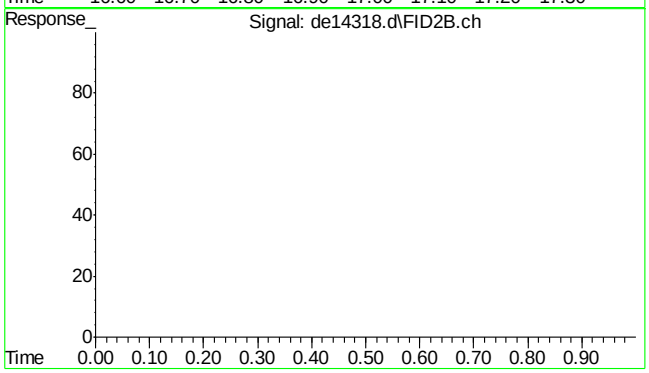
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1273094
Conc: 19.06 µg/ml m



#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 759195
Conc: 11.36 µg/ml m



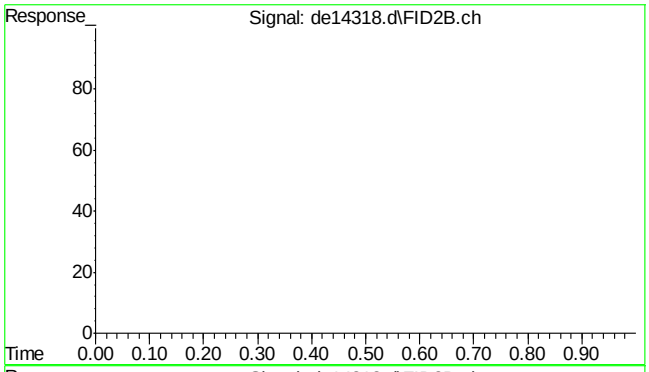
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.1

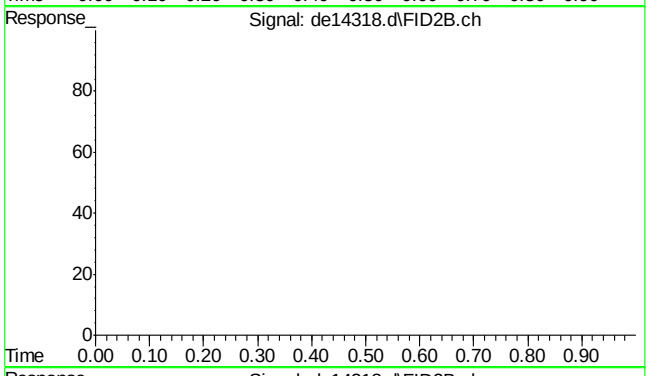
9

SGS ACCUTEST MC45816A



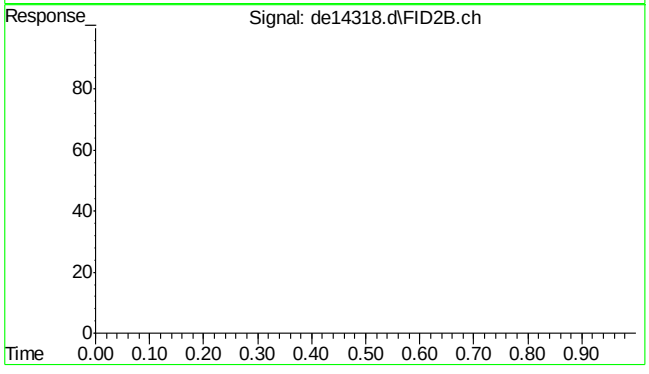
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

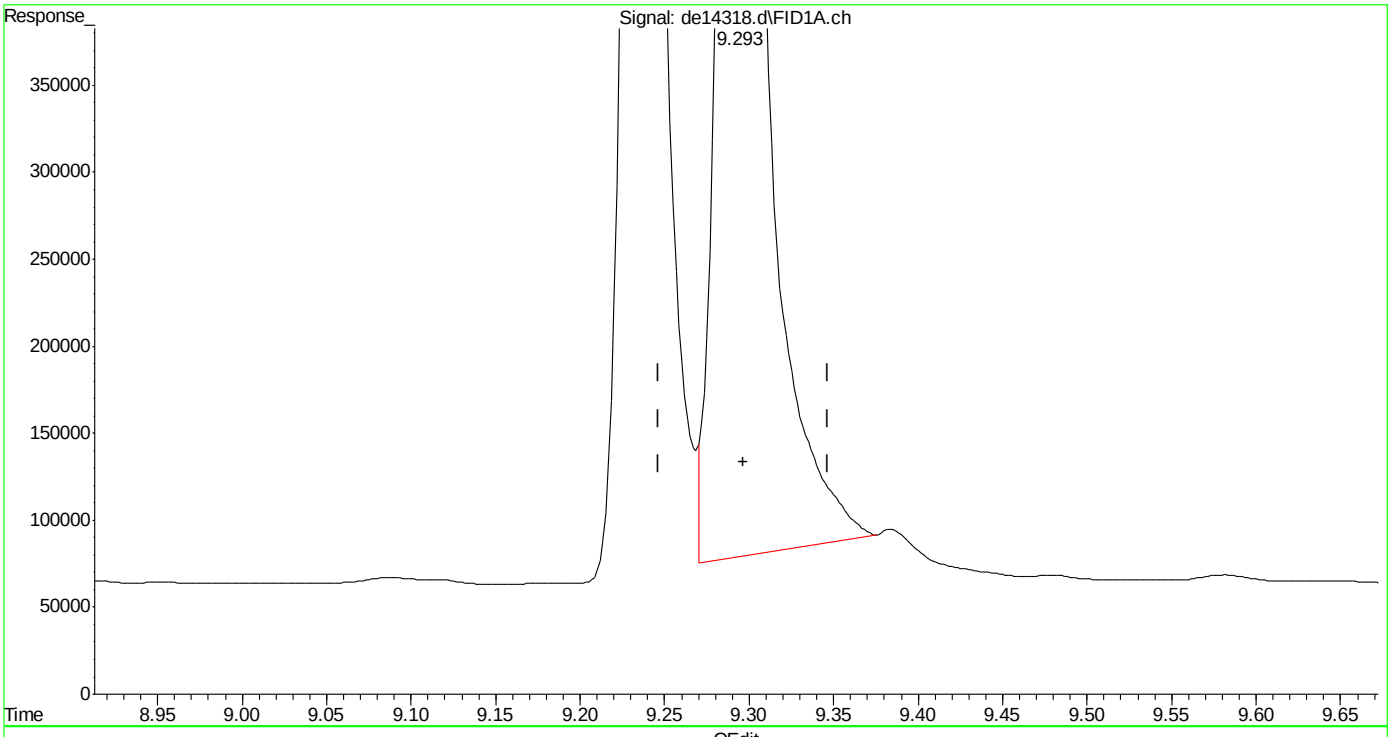
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14318.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 8:52 am
Operator : andrip
Sample : op47572-bs
Misc : op47648,gde801,11.56,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) anthracene
9.293min 16.228 µg/ml
response 1574202

(+) = Expected Retention Time
EPH160531W.M Tue May 31 09:52:17 2016

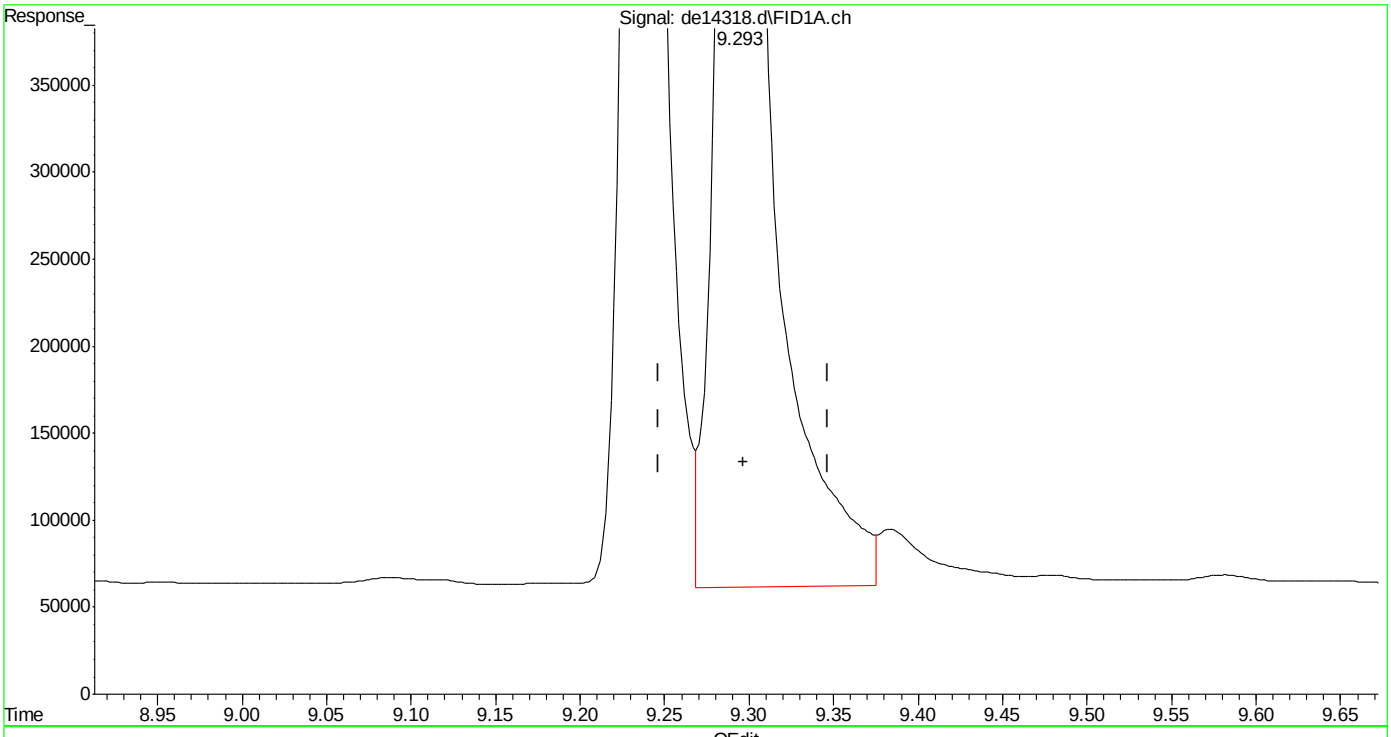
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14318.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 8:52 am
Operator : andrip
Sample : op47572-bs
Misc : op47648,gde801,11.56,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) anthracene
9.293min 17.702 µg/ml m
response 1717272

(+) = Expected Retention Time
EPH160531W.M Tue May 31 09:52:25 2016

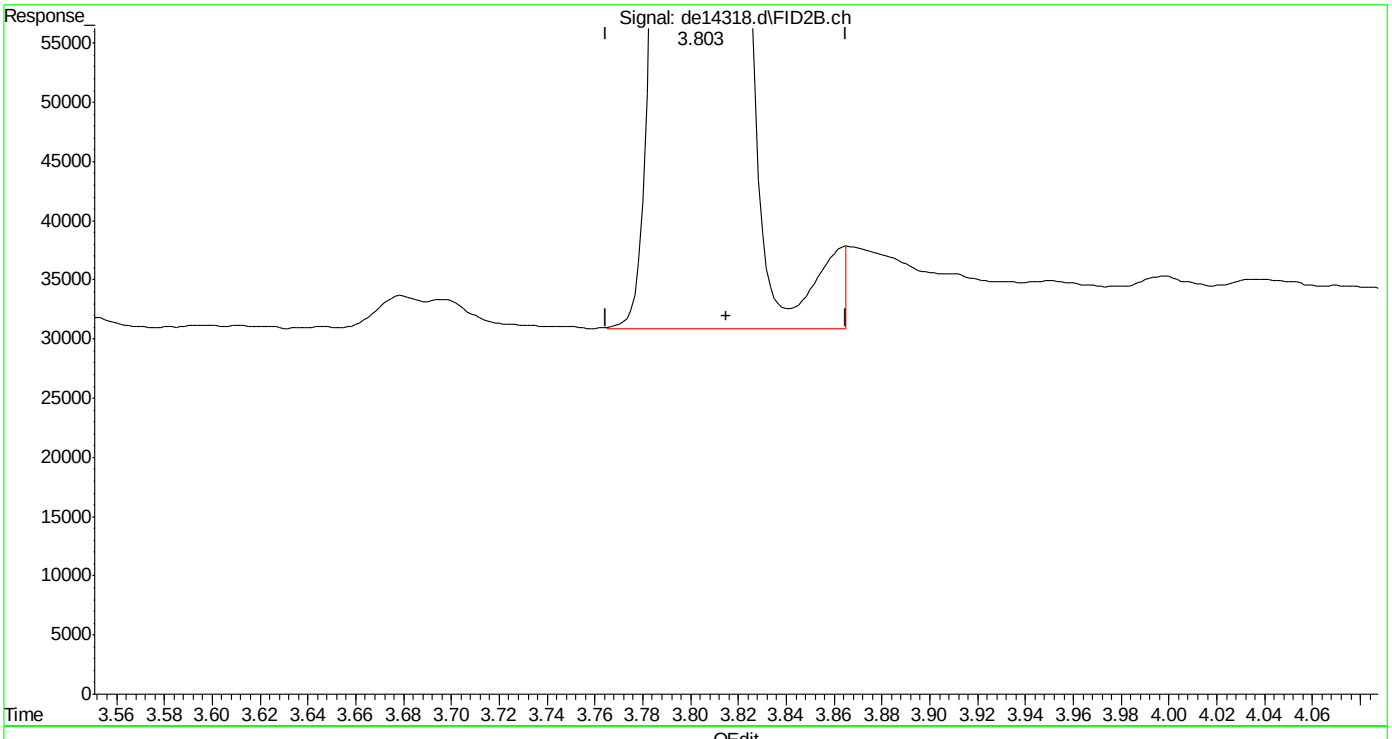
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14318.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 8:52 am
Operator : andrip
Sample : op47572-bs
Misc : op47648,gde801,11.56,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.815min 15.456 µg/ml
response 1141799

(+) = Expected Retention Time
EPH160531W.M Tue May 31 09:52:42 2016

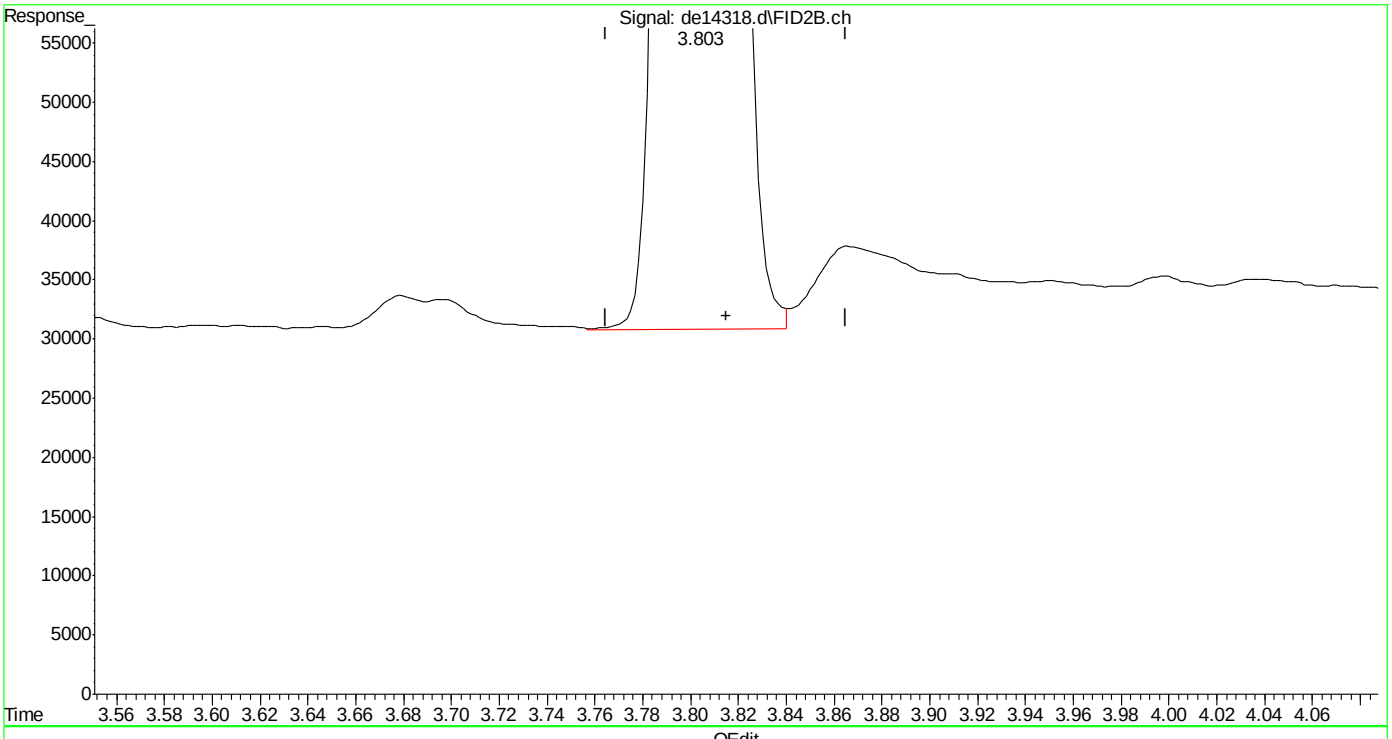
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14318.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 8:52 am
Operator : andrip
Sample : op47572-bs
Misc : op47648,gde801,11.56,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.815min 15.372 µg/ml m
response 1135591

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
05/31/16 11:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14319.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 9:20 am
Operator : andrip
Sample : op47572-bsd
Misc : op47572,gde801,11.31,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:54:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.617	1494764	16.207 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 81.03%#		
6) s 2-bromonaphthalene	7.343	945340	15.064 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 75.32%#		
11) s o-terphenyl	9.877	1805270	17.625 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 88.13%#		
35) s 1-chlorooctadecane	11.222	859830	15.198 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 75.99%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	36371147	370.361 µg/ml
2) naphthalene	5.168	1637160	15.873 µg/ml
3) 2-methylnaphthalene	6.065	1636564	15.969 µg/ml
5) acenaphthylene	7.175	1681005	16.710 µg/ml
7) acenaphthene	7.415	1923391	18.606 µg/ml
8) fluorene	8.058	1769178	17.419 µg/ml
9) phenanthrene	9.237	1774456	17.437 µg/ml
10) anthracene	9.295	1978484	20.395 µg/mlm
12) fluoranthene	10.738	2026749	20.279 µg/ml
13) pyrene	10.995	2042092	20.127 µg/ml
14) benzo(a)anthracene	12.557	2053799	21.244 µg/ml
15) chrysene	12.603	2089419	21.465 µg/ml
16) benzo(B)fluoranthene	13.855	2070089	20.909 µg/ml
17) benzo(k)fluoranthene	13.878	2058521	21.783 µg/ml
18) benzo(a)pyrene	14.187	2038247	22.050 µg/ml
19) indeno(1,2,3-cd)pyrene	15.327	2037566	21.526 µg/ml
20) dibenzo(ah)anthracene	15.368	2012090	22.014 µg/ml
21) benzo(ghi)perylene	15.547	2038654	22.130 µg/ml
25) h c-9	2.647	1122204	15.191 µg/mlm
26) h c-10	3.815	1301144	17.613 µg/mlm
27) naphthalene #2	5.485	6088	0.076 µg/ml
28) c-12	5.662	1375226	18.616 µg/ml
29) 2-methylnaphthalene #2	6.380	5585	0.069 µg/ml
30) c-14	7.178	1383438	18.727 µg/ml
31) c-16	8.507	1404116	19.007 µg/ml
32) c-18	9.702	1514606	20.503 µg/ml
33) c-19	10.257	1534687	22.972 µg/ml
34) c-20	10.788	1580873	23.663 µg/ml
36) c-22	11.782	1612241	24.133 µg/ml
37) c-24	12.702	1594380	23.866 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14319.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 9:20 am
Operator : andrip
Sample : op47572-bsd
Misc : op47572,gde801,11.31,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:54:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.552	1554637	23.271	µg/ml
39)		c-28	14.345	1530681	22.912	µg/ml
40)	h	c-30	15.098	1519511	22.745	µg/mlm
41)	h	c-36	16.983	1229241	18.400	µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

9.3.2

9

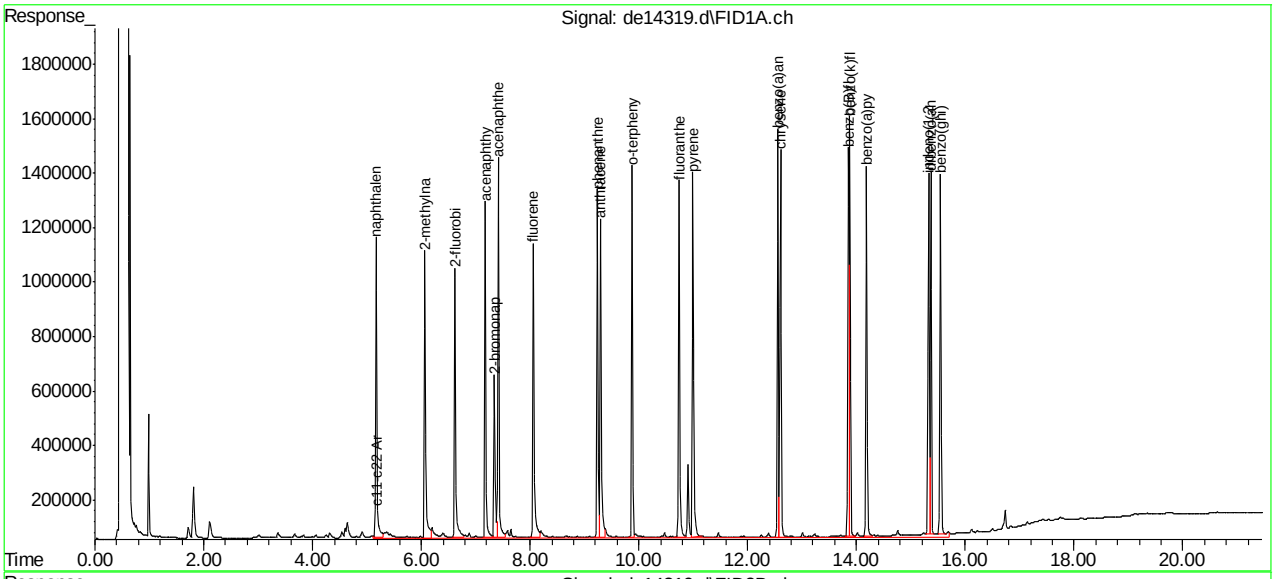
SGS ACCUTEST MC45816A

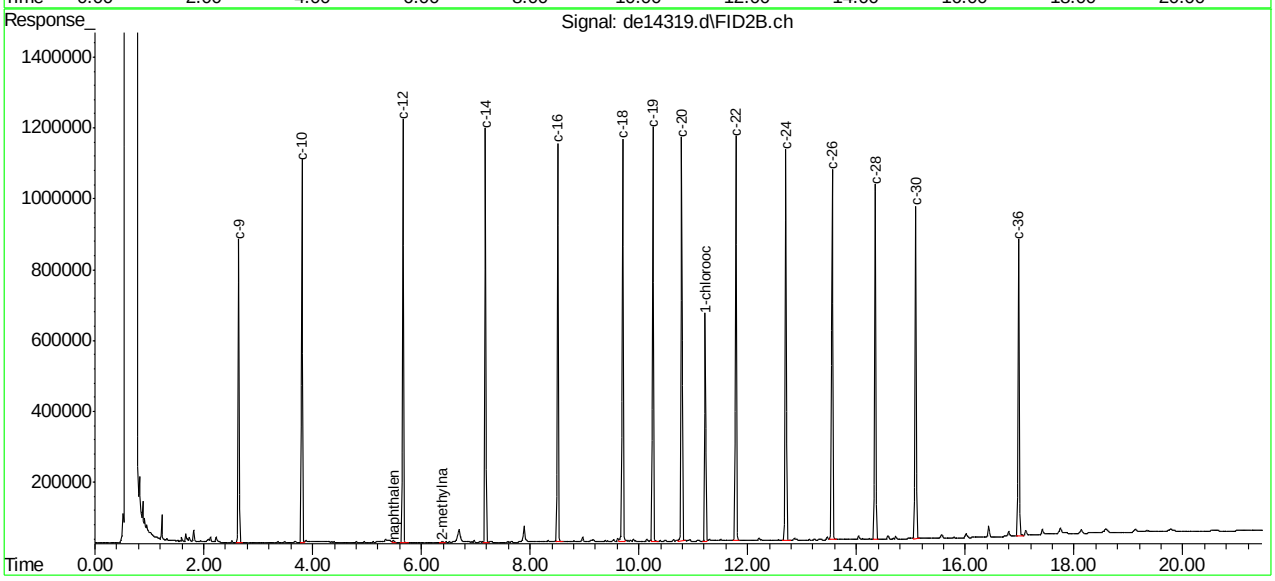
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14319.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 9:20 am
Operator : andrip
Sample : op47572-bsd
Misc : op47572,gde801,11.31,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

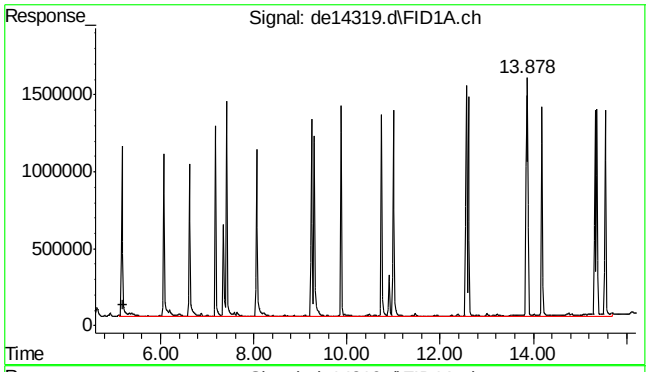
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:54:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



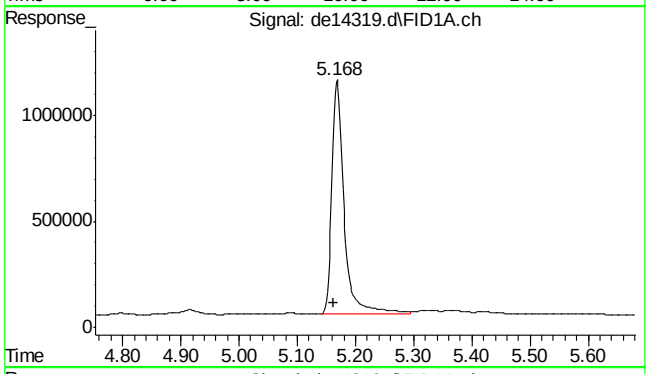


SGS ACCUTEST MC45816A



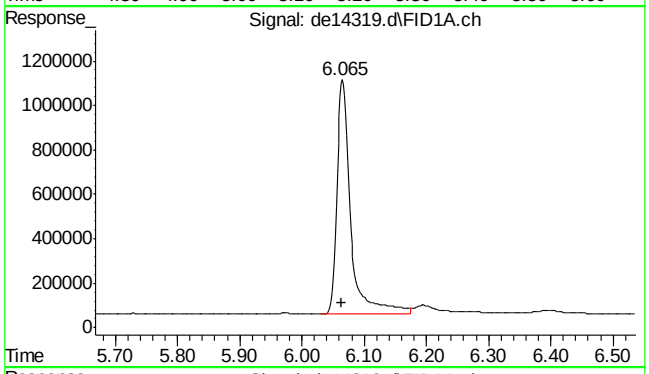
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 36371147
Conc: 370.36 µg/ml



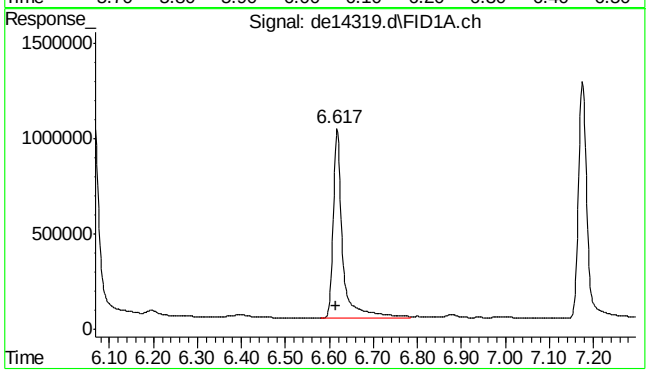
#2 naphthalene

R.T.: 5.168 min
Delta R.T.: 0.005 min
Response: 1637160
Conc: 15.87 µg/ml



#3 2-methylnaphthalene

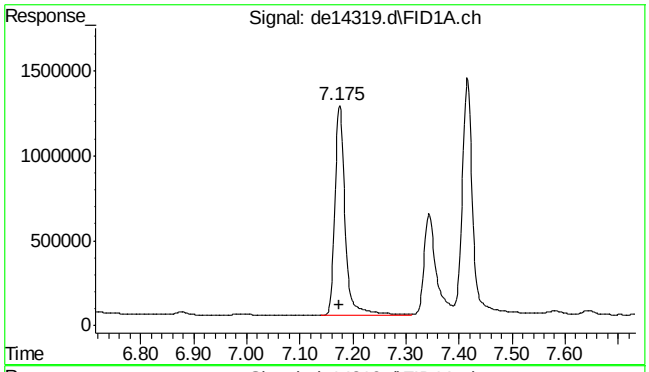
R.T.: 6.065 min
Delta R.T.: 0.002 min
Response: 1636564
Conc: 15.97 µg/ml



#4 2-fluorobiphenyl

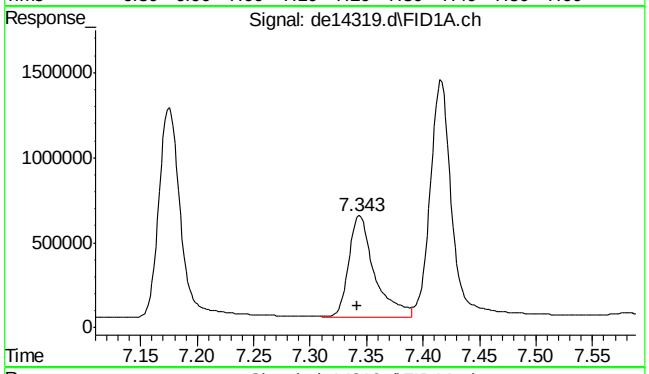
R.T.: 6.617 min
Delta R.T.: 0.002 min
Response: 1494764
Conc: 16.21 µg/ml

SGS ACCUTEST MC45816A



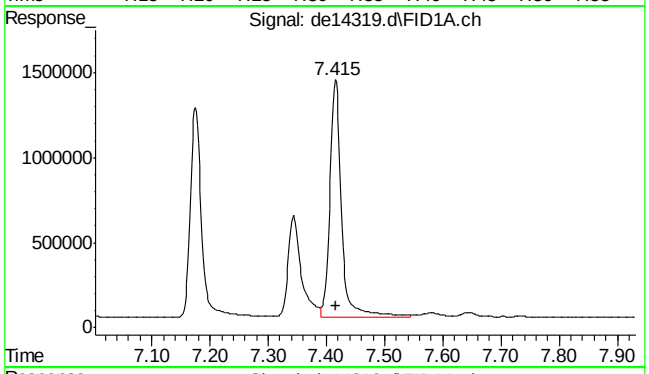
#5 acenaphthylene

R.T.: 7.175 min
Delta R.T.: 0.000 min
Response: 1681005
Conc: 16.71 µg/ml



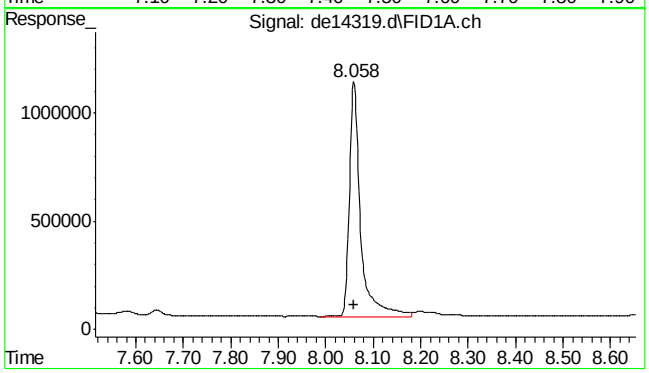
#6 2-bromonaphthalene

R.T.: 7.343 min
Delta R.T.: 0.002 min
Response: 945340
Conc: 15.06 µg/ml



#7 acenaphthene

R.T.: 7.415 min
Delta R.T.: -0.002 min
Response: 1923391
Conc: 18.61 µg/ml



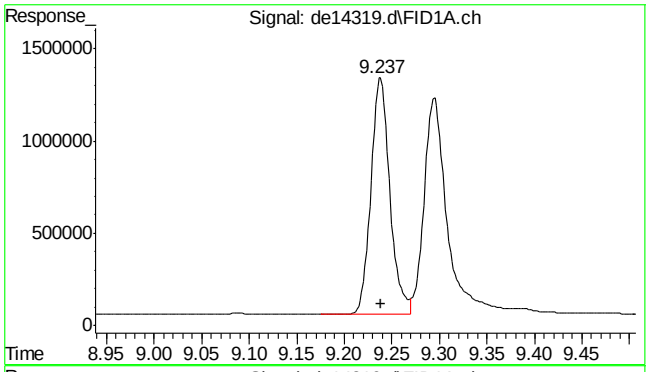
#8 fluorene

R.T.: 8.058 min
Delta R.T.: -0.002 min
Response: 1769178
Conc: 17.42 µg/ml

9.3.2

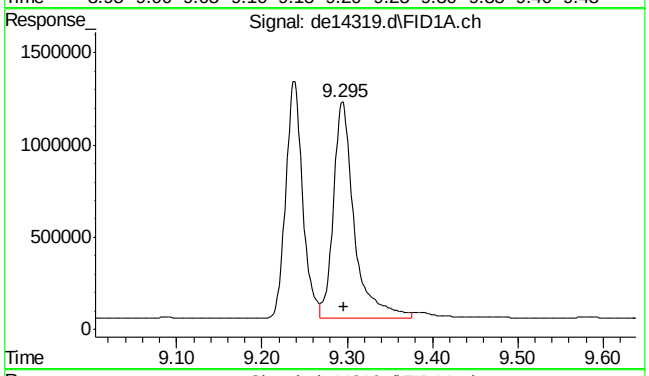
9

SGS ACCUTEST MC45816A



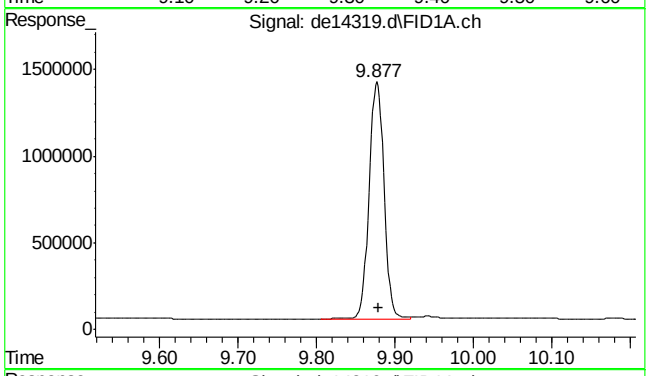
#9 phenanthrene

R.T.: 9.237 min
Delta R.T.: -0.002 min
Response: 1774456
Conc: 17.44 µg/ml



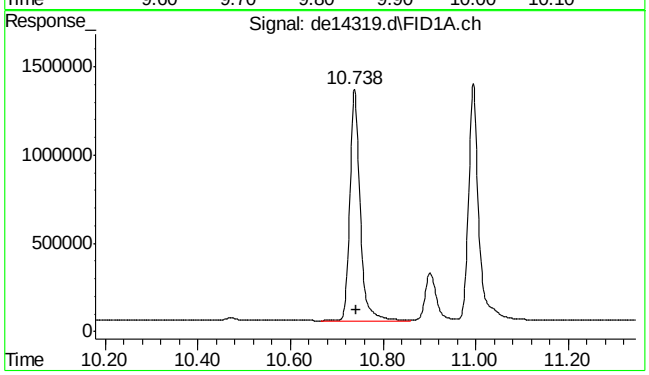
#10 anthracene

R.T.: 9.295 min
Delta R.T.: -0.002 min
Response: 1978484
Conc: 20.40 µg/ml m



#11 o-terphenyl

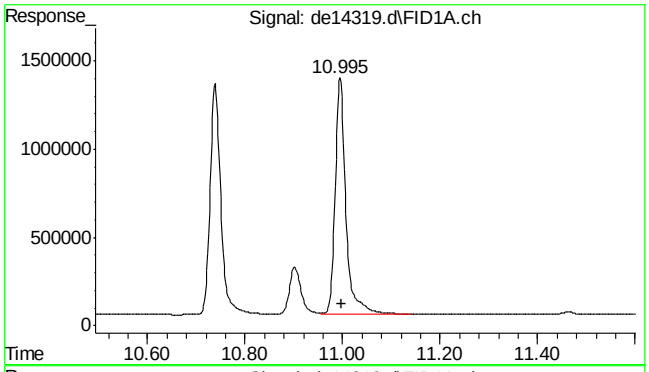
R.T.: 9.877 min
Delta R.T.: -0.002 min
Response: 1805270
Conc: 17.63 µg/ml



#12 fluoranthene

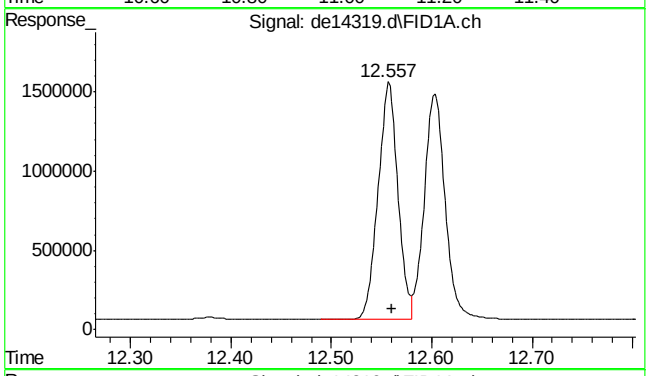
R.T.: 10.738 min
Delta R.T.: -0.003 min
Response: 2026749
Conc: 20.28 µg/ml

SGS ACCUTEST MC45816A



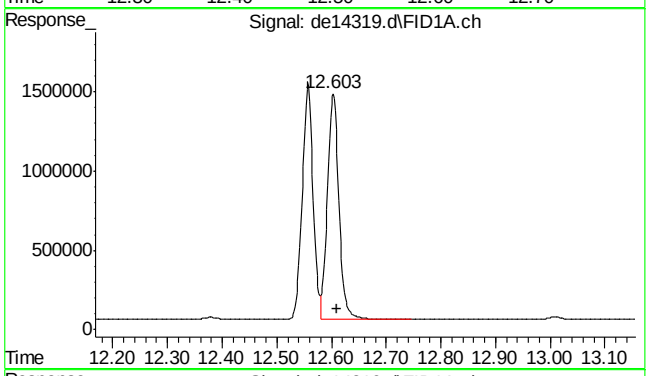
#13 pyrene

R.T.: 10.995 min
Delta R.T.: -0.003 min
Response: 2042092
Conc: 20.13 µg/ml



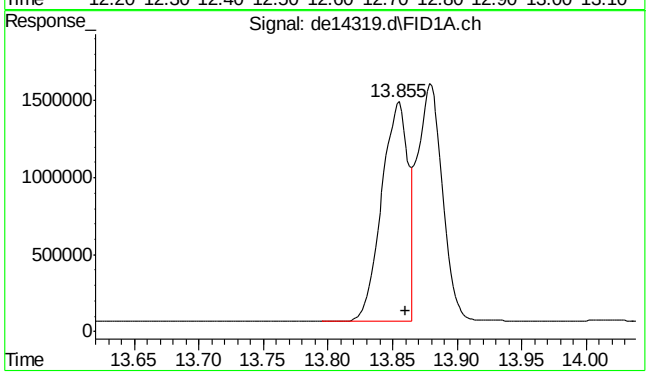
#14 benzo(a)anthracene

R.T.: 12.557 min
Delta R.T.: -0.003 min
Response: 2053799
Conc: 21.24 µg/ml



#15 chrysene

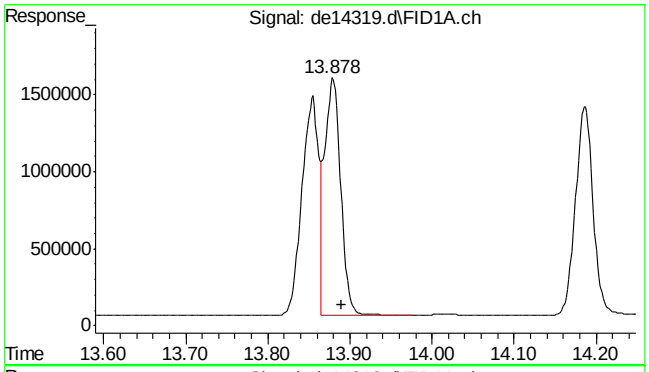
R.T.: 12.603 min
Delta R.T.: -0.007 min
Response: 2089419
Conc: 21.46 µg/ml



#16 benzo(B)fluoranthene

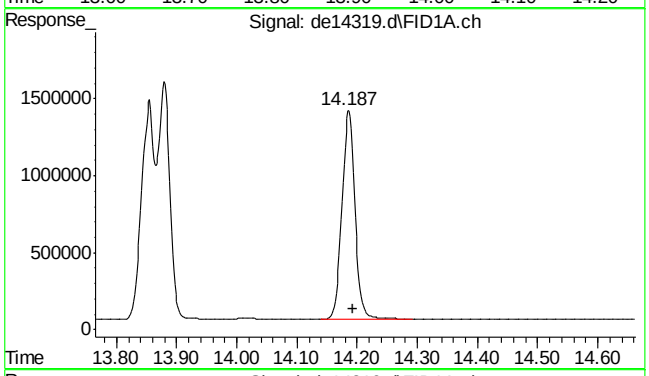
R.T.: 13.855 min
Delta R.T.: -0.005 min
Response: 2070089
Conc: 20.91 µg/ml

SGS ACCUTEST MC45816A



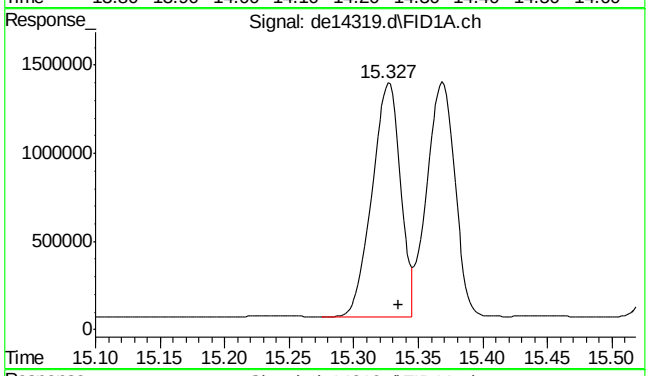
#17 benzo(k)fluoranthene

R.T.: 13.878 min
Delta R.T.: -0.012 min
Response: 2058521
Conc: 21.78 µg/ml



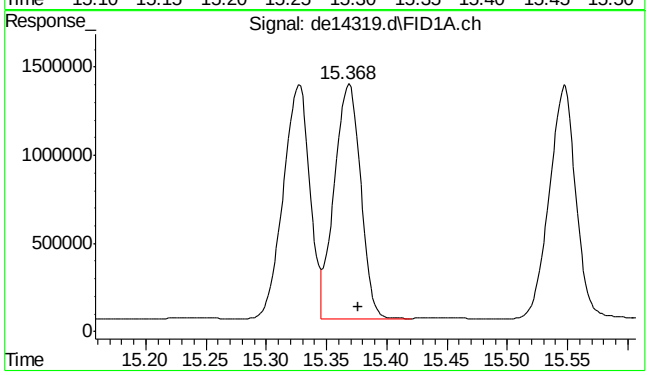
#18 benzo(a)pyrene

R.T.: 14.187 min
Delta R.T.: -0.007 min
Response: 2038247
Conc: 22.05 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.327 min
Delta R.T.: -0.008 min
Response: 2037566
Conc: 21.53 µg/ml



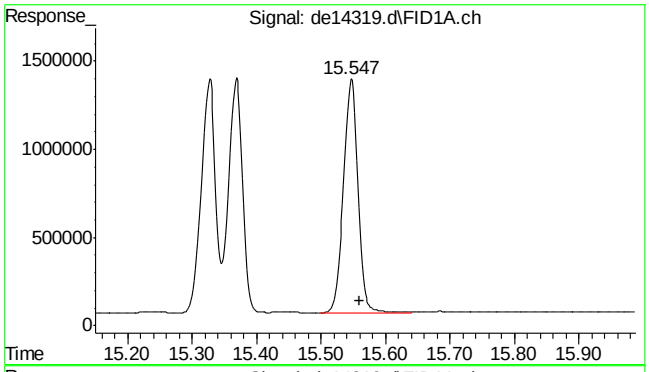
#20 dibenzo(ah)anthracene

R.T.: 15.368 min
Delta R.T.: -0.008 min
Response: 2012090
Conc: 22.01 µg/ml

9.3.2

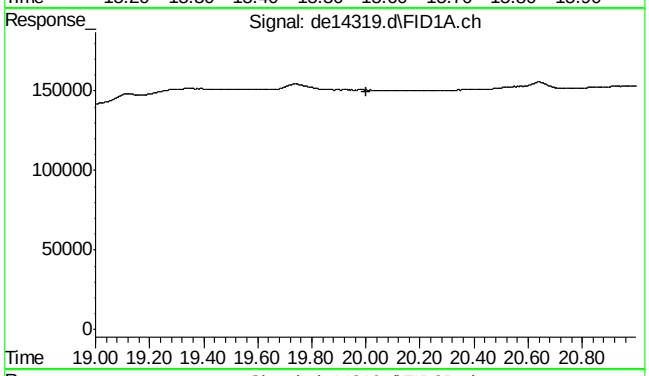
9

SGS ACCUTEST MC45816A



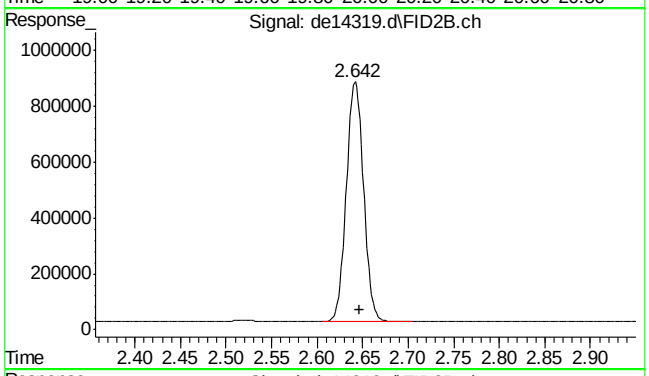
#21 benzo(ghi)perylene

R.T.: 15.547 min
Delta R.T.: -0.013 min
Response: 2038654
Conc: 22.13 µg/ml



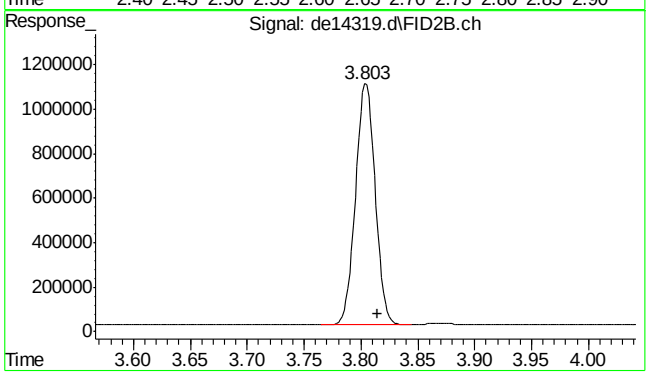
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



#25 c-9

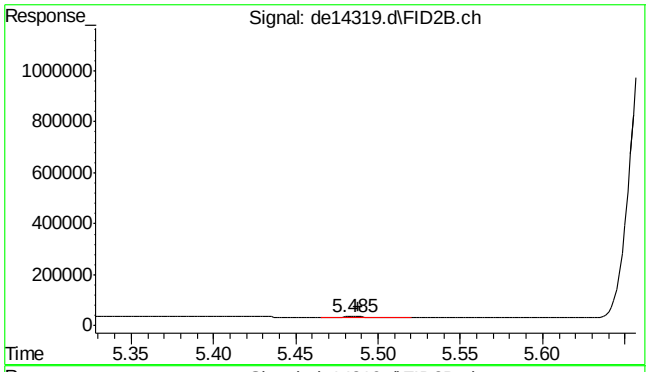
R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1122204
Conc: 15.19 µg/ml m



#26 c-10

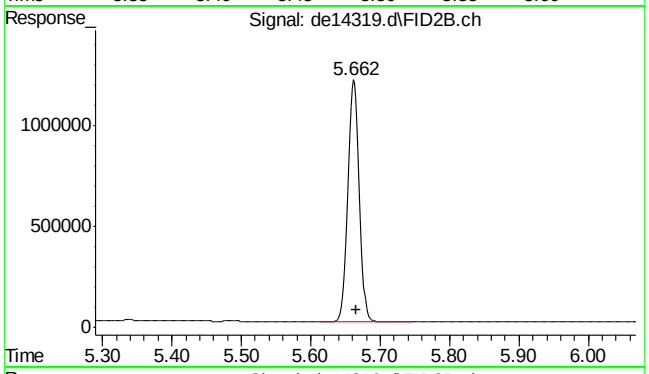
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1301144
Conc: 17.61 µg/ml m

SGS ACCUTEST MC45816A



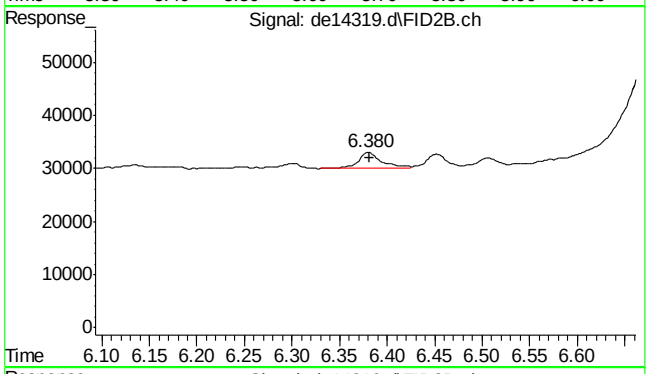
#27 naphthalene #2

R.T.: 5.485 min
Delta R.T.: -0.003 min
Response: 6088
Conc: 0.08 µg/ml



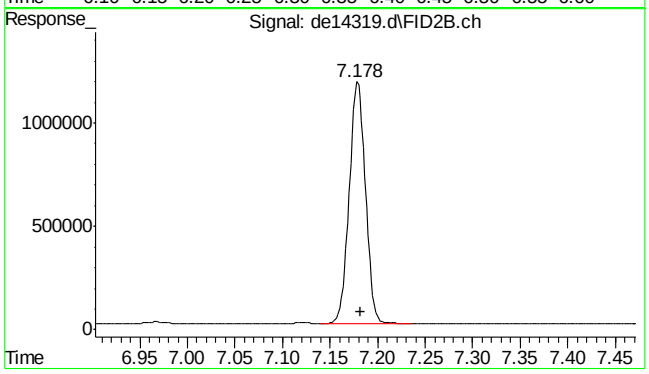
#28 c-12

R.T.: 5.662 min
Delta R.T.: -0.003 min
Response: 1375226
Conc: 18.62 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.380 min
Delta R.T.: -0.002 min
Response: 5585
Conc: 0.07 µg/ml



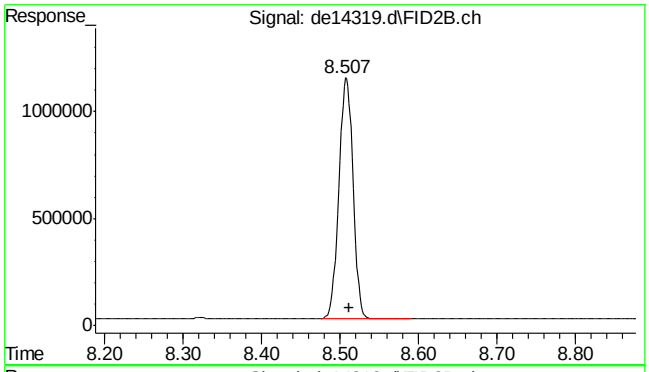
#30 c-14

R.T.: 7.178 min
Delta R.T.: -0.003 min
Response: 1383438
Conc: 18.73 µg/ml

9.3.2

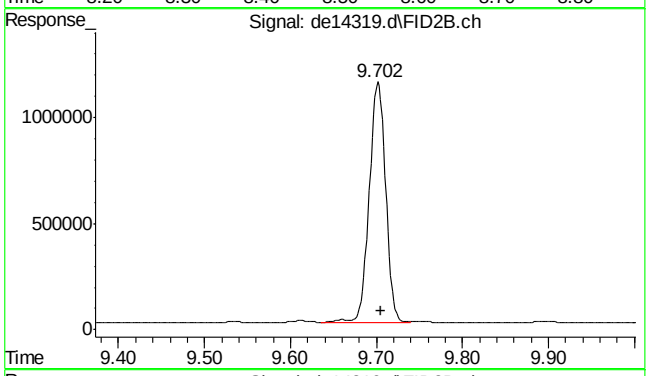
9

SGS ACCUTEST MC45816A



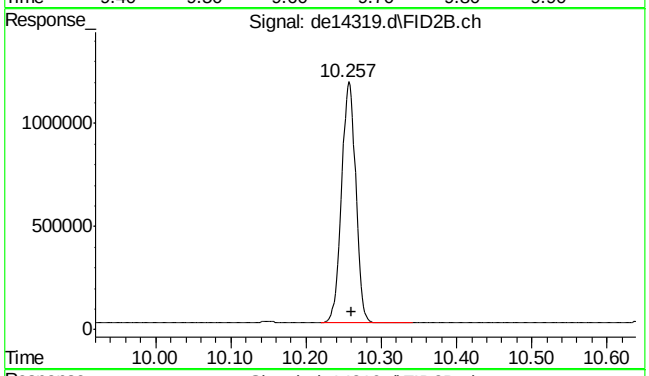
#31 c-16

R.T.: 8.507 min
Delta R.T.: -0.005 min
Response: 1404116
Conc: 19.01 µg/ml



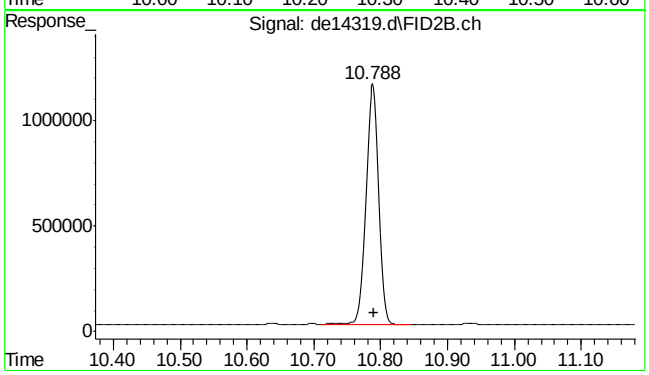
#32 c-18

R.T.: 9.702 min
Delta R.T.: -0.003 min
Response: 1514606
Conc: 20.50 µg/ml



#33 c-19

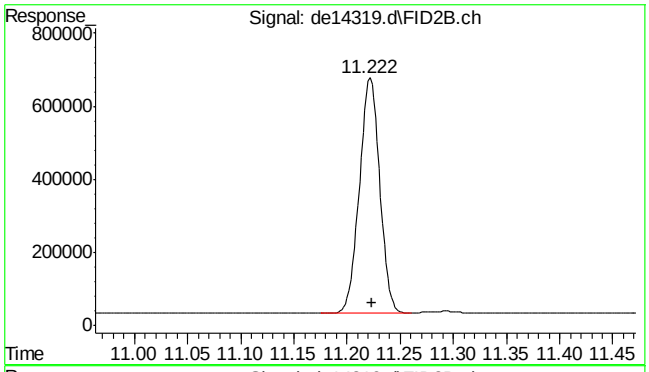
R.T.: 10.257 min
Delta R.T.: -0.003 min
Response: 1534687
Conc: 22.97 µg/ml



#34 c-20

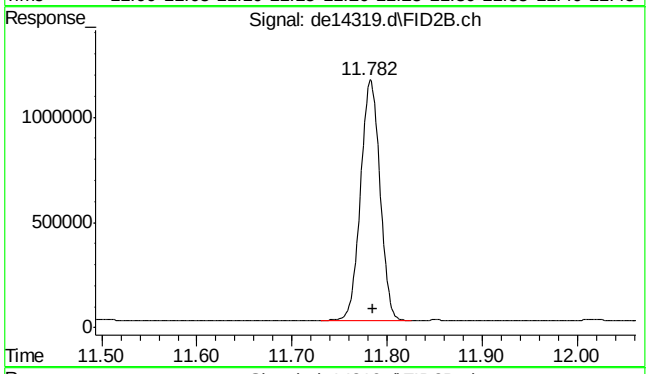
R.T.: 10.788 min
Delta R.T.: -0.002 min
Response: 1580873
Conc: 23.66 µg/ml

SGS ACCUTEST MC45816A



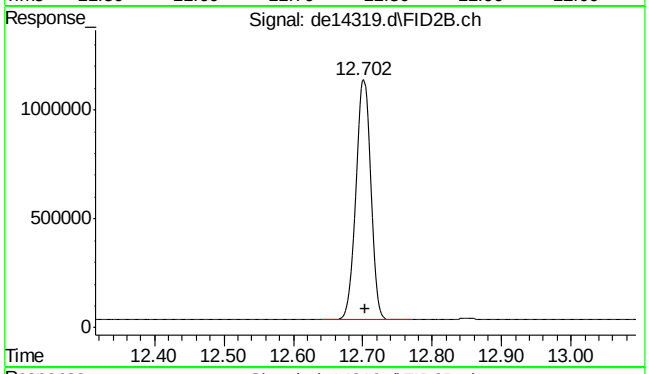
#35 1-chlorooctadecane

R.T.: 11.222 min
Delta R.T.: -0.002 min
Response: 859830
Conc: 15.20 µg/ml



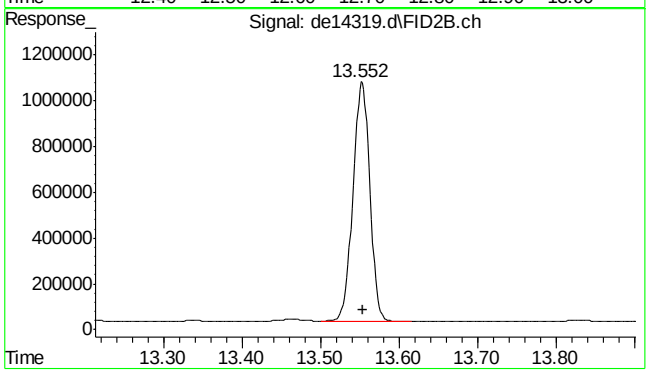
#36 c-22

R.T.: 11.782 min
Delta R.T.: -0.003 min
Response: 1612241
Conc: 24.13 µg/ml



#37 c-24

R.T.: 12.702 min
Delta R.T.: -0.002 min
Response: 1594380
Conc: 23.87 µg/ml



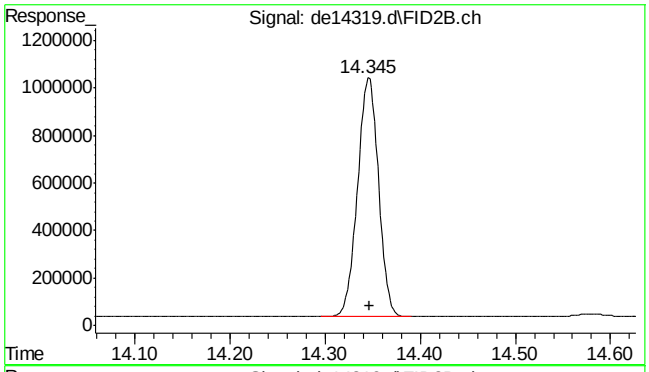
#38 c-26

R.T.: 13.552 min
Delta R.T.: -0.002 min
Response: 1554637
Conc: 23.27 µg/ml

9.3.2

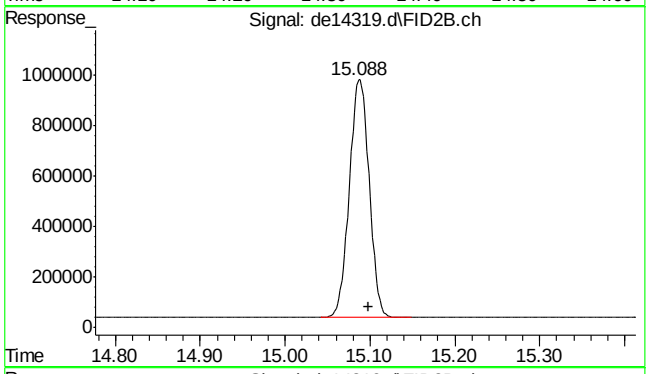
9

SGS ACCUTEST MC45816A



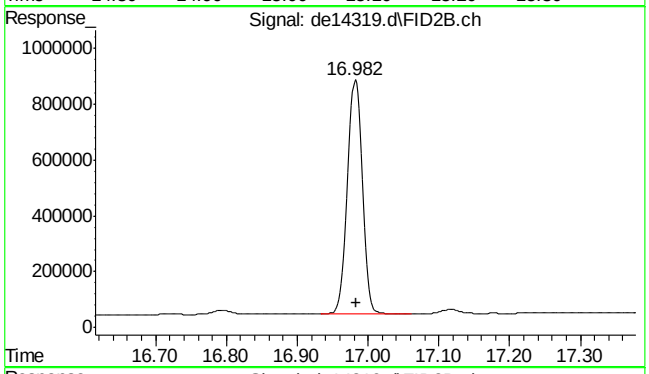
#39 c-28

R.T.: 14.345 min
Delta R.T.: -0.002 min
Response: 1530681
Conc: 22.91 µg/ml



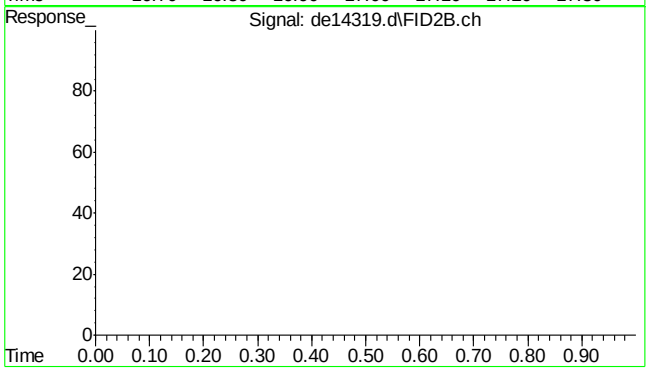
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1519511
Conc: 22.74 µg/ml m



#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1229241
Conc: 18.40 µg/ml m



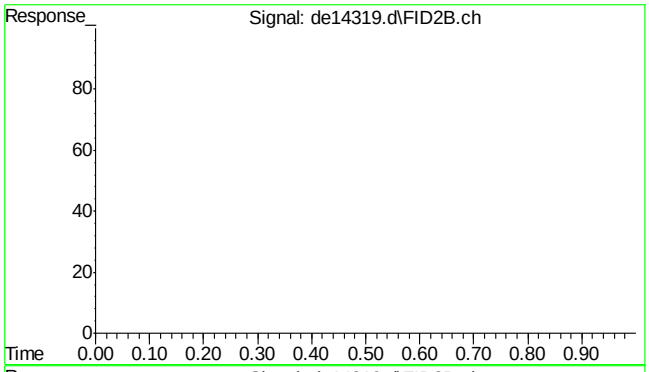
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.2

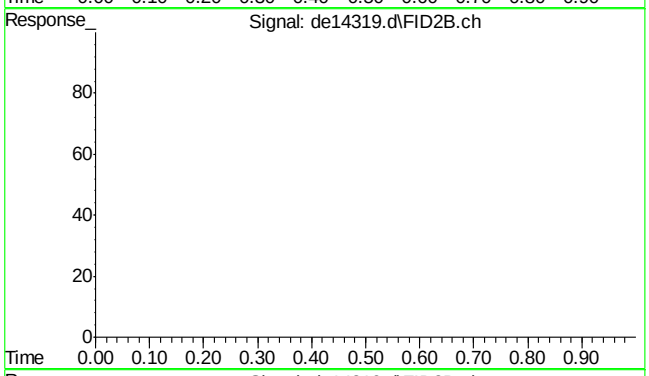
9

SGS ACCUTEST MC45816A



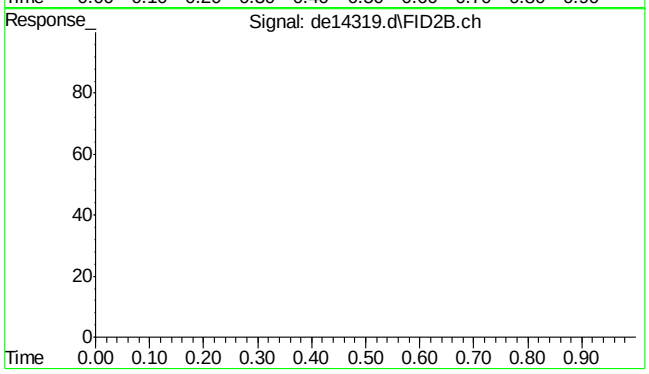
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

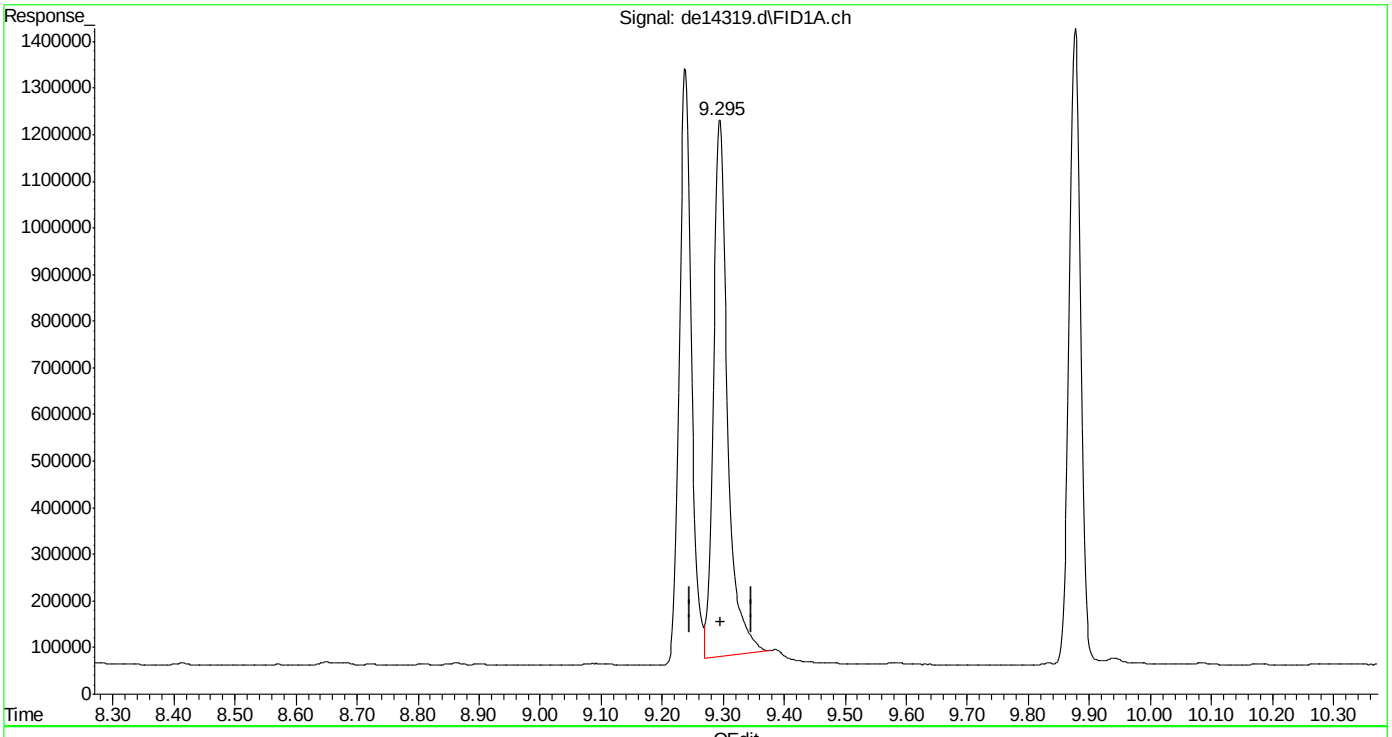
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14319.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 31 May 2016   9:20 am
Operator  : andrip
Sample    : op47572-bsd
Misc      : op47648,gde801,11.31,,,2,,s
ALS Vial  : 6   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:53:54 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(10) anthracene

9.295min 18.936 µg/ml

response 1836959

(+) = Expected Retention Time

EPH160531W.M Tue May 31 09:54:05 2016

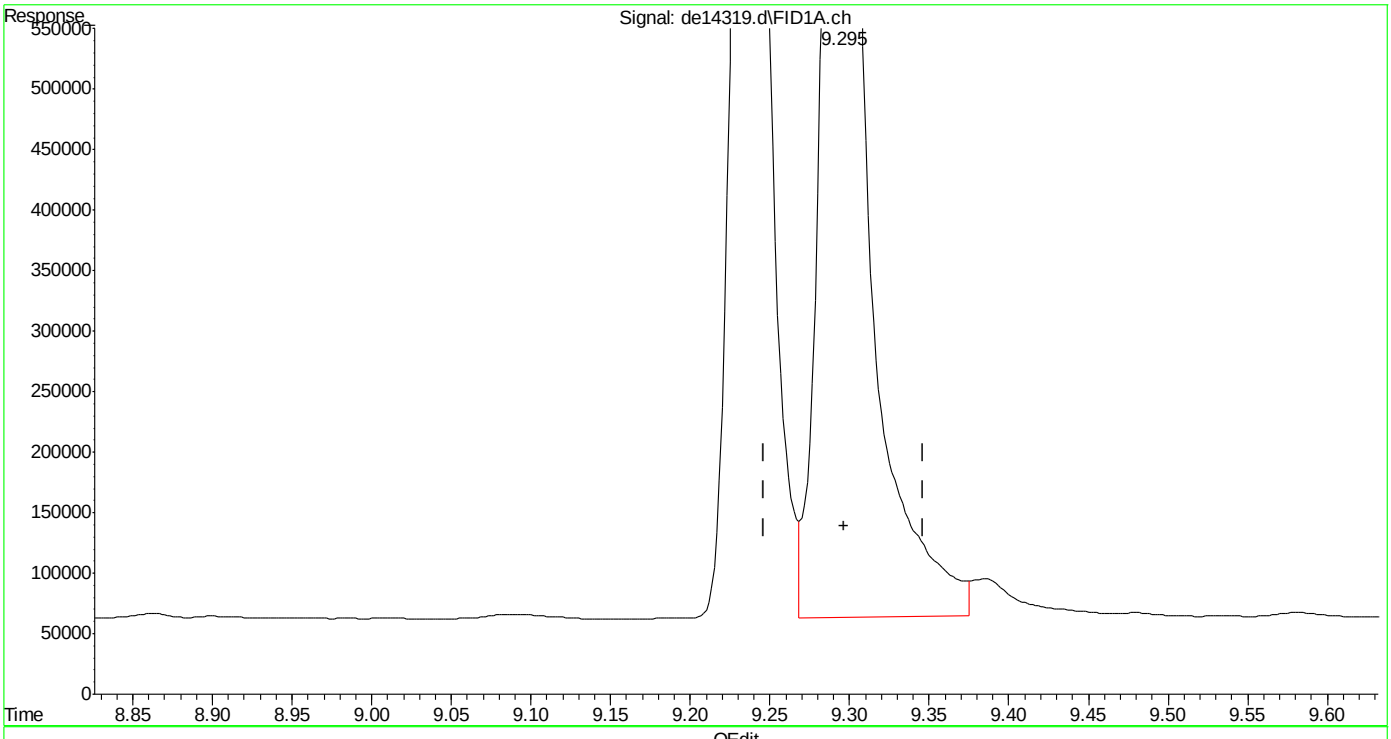
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14319.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 9:20 am
Operator : andrip
Sample : op47572-bsd
Misc : op47648,gde801,11.31,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:53:54 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) anthracene
9.295min 20.395 µg/ml m
response 1978484

(+) = Expected Retention Time
EPH160531W.M Tue May 31 09:54:12 2016

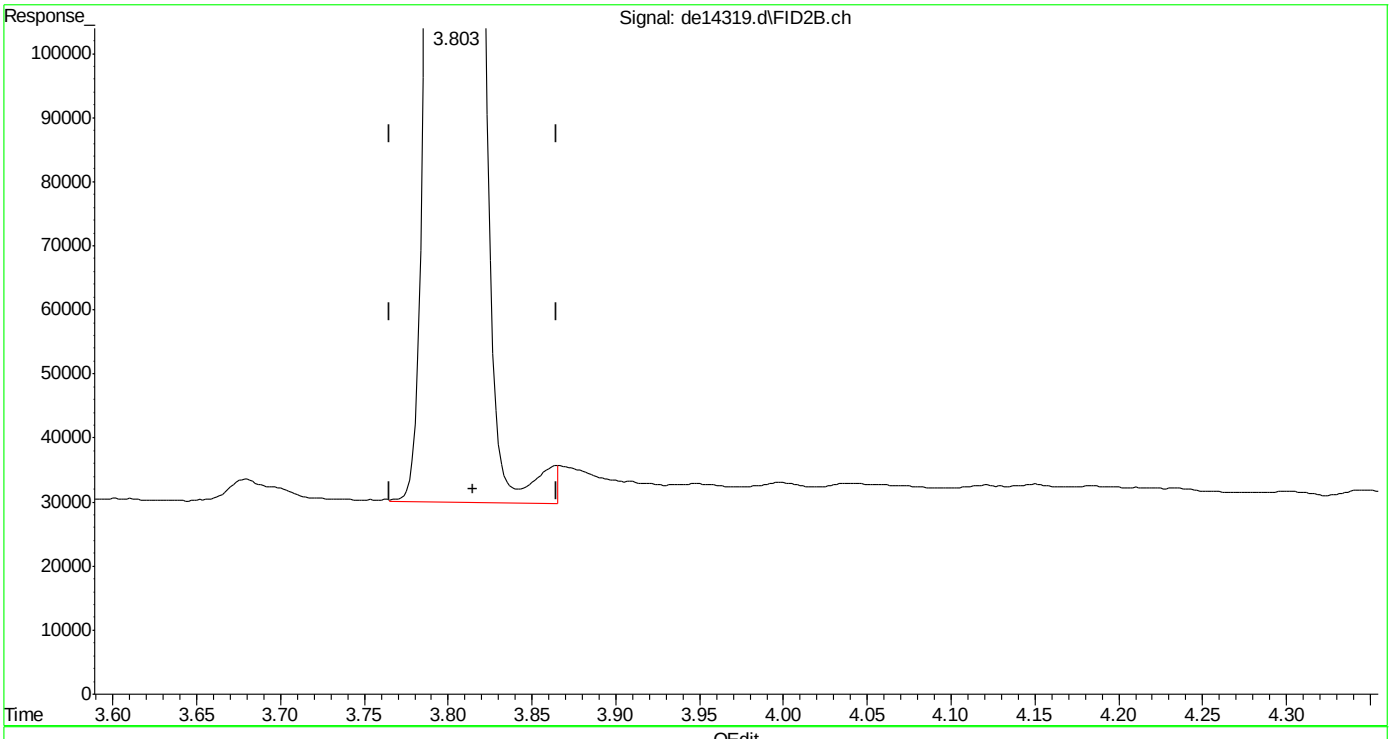
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14319.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 9:20 am
Operator : andrip
Sample : op47572-bsd
Misc : op47648,gde801,11.31,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:53:54 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.815min 17.717 µg/ml
response 1308782

(+) = Expected Retention Time
EPH160531W.M Tue May 31 09:54:30 2016

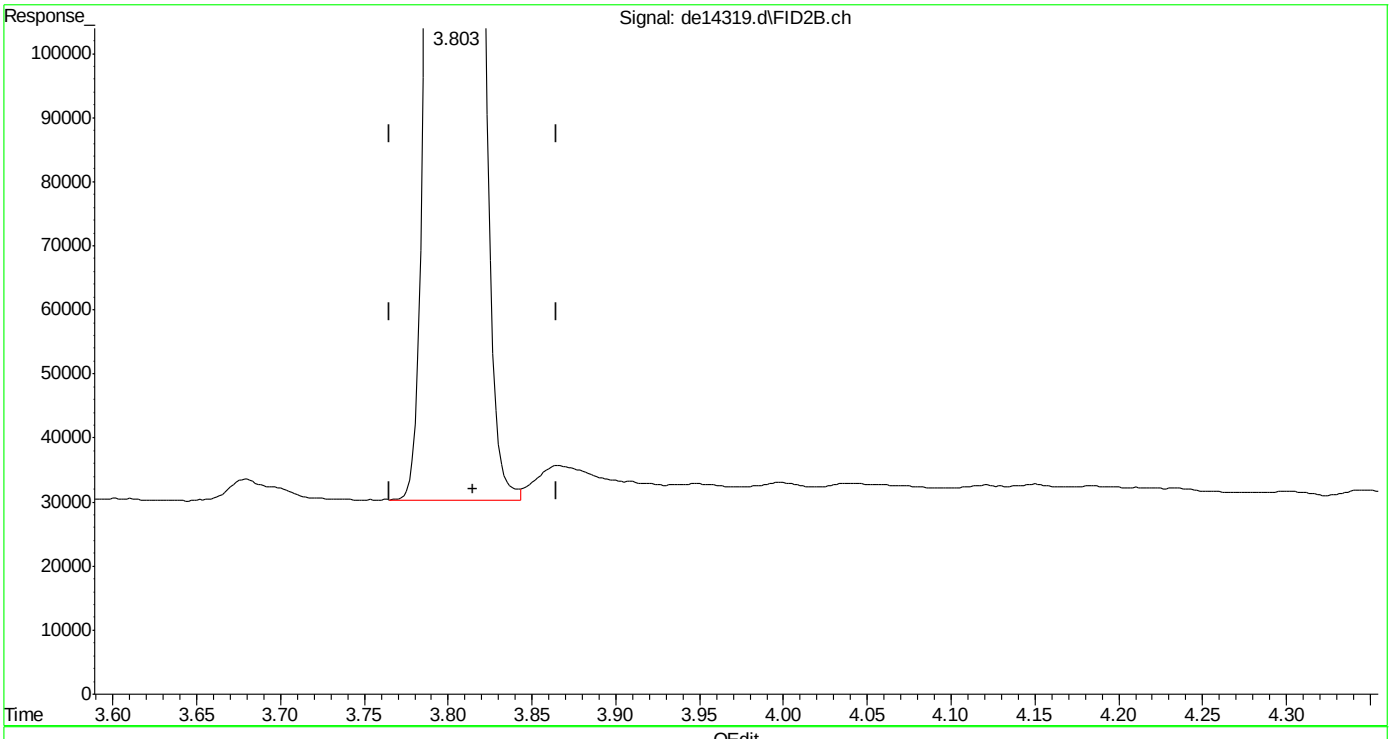
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14319.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 9:20 am
Operator : andrip
Sample : op47572-bsd
Misc : op47648,gde801,11.31,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:53:54 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.815min 17.613 µg/ml m
response 1301144

(+) = Expected Retention Time
EPH160531W.M Tue May 31 09:54:36 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14326.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 12:34 pm
Operator : andrip
Sample : op47572-ms
Misc : op47572,gde801,11.16,,,2,,s
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 14:21:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.620	1518249	16.462 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 82.31%#		
6) s 2-bromonaphthalene	7.347	951395	15.160 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 75.80%#		
11) s o-terphenyl	9.880	1692519	16.524 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 82.62%#		
35) s 1-chlorooctadecane	11.222	787979	13.928 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 69.64%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	34410854	350.400 µg/ml
2) naphthalene	5.172	1573622	15.257 µg/ml
3) 2-methylnaphthalene	6.068	1578611	15.404 µg/ml
5) acenaphthylene	7.178	1611753	16.021 µg/ml
7) acenaphthene	7.418	1851656	17.912 µg/ml
8) fluorene	8.062	1688747	16.627 µg/ml
9) phenanthrene	9.240	1665392	16.365 µg/ml
10) anthracene	9.297	1885667	19.438 µg/ml
12) fluoranthene	10.742	1892716	18.938 µg/ml
13) pyrene	10.998	1911164	18.836 µg/ml
14) benzo(a)anthracene	12.560	1914365	19.802 µg/ml
15) chrysene	12.607	1915614	19.679 µg/ml
16) benzo(B)fluoranthene	13.855	2035624	20.561 µg/ml
17) benzo(k)fluoranthene	13.882	1769820	18.728 µg/ml
18) benzo(a)pyrene	14.188	1879887	20.337 µg/ml
19) indeno(1,2,3-cd)pyrene	15.328	1900731	20.080 µg/ml
20) dibenzo(ah)anthracene	15.372	1810121	19.805 µg/ml
21) benzo(ghi)perylene	15.550	1865302	20.248 µg/ml
25) h c-9	2.647	8606374	116.504 µg/ml
41) h c-36	16.983	11438124	171.213 µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

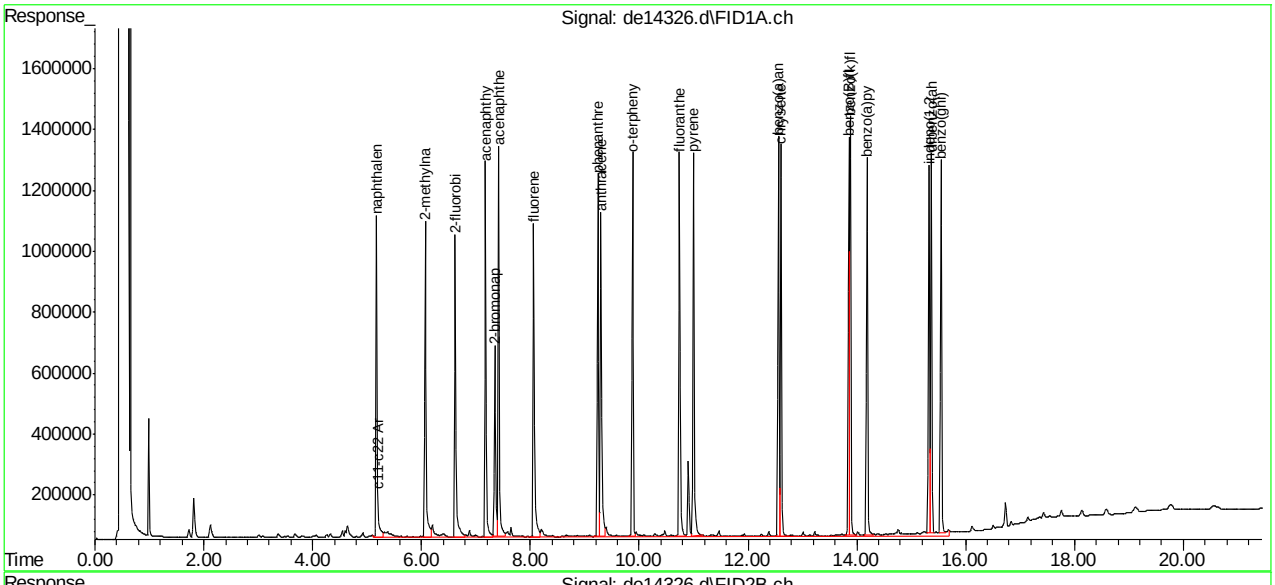
SGS ACCUTEST MC45816A

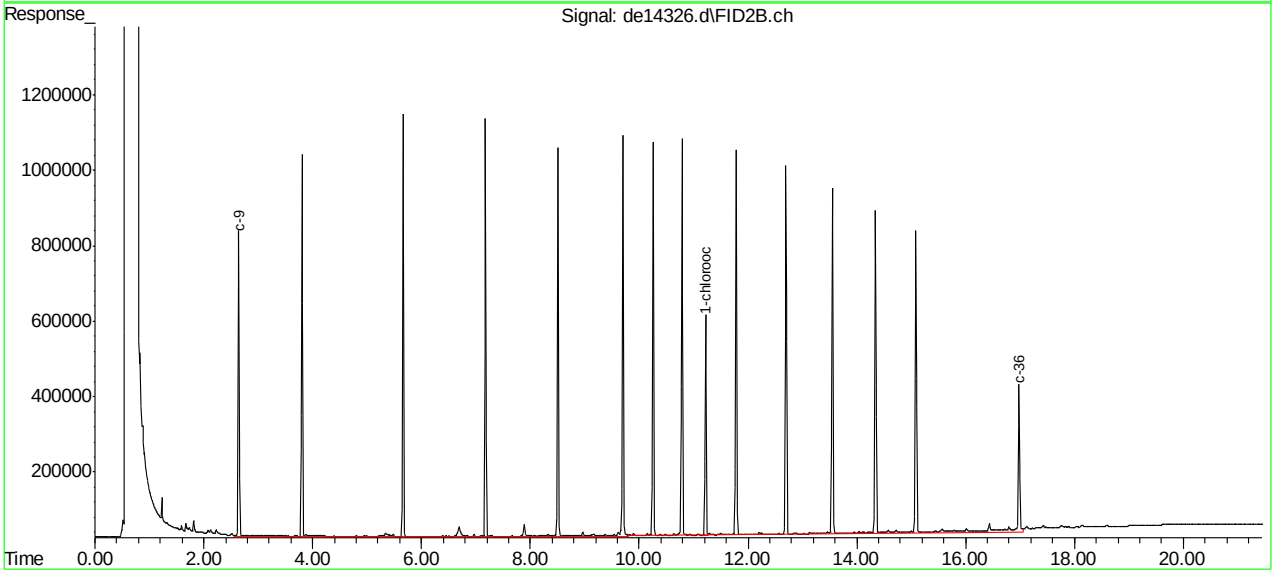
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14326.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 12:34 pm
Operator : andrip
Sample : op47572-ms
Misc : op47572,gde801,11.16,,,2,,s
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 14:21:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

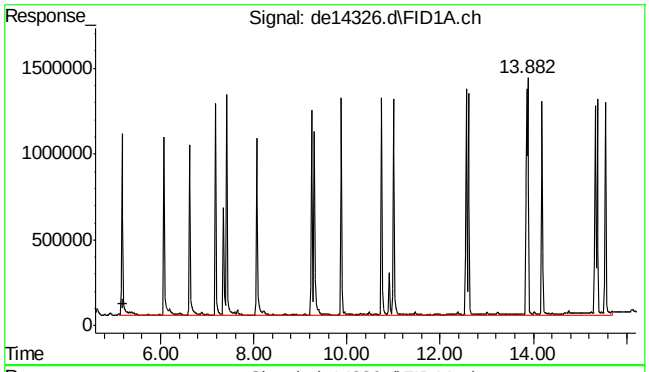
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





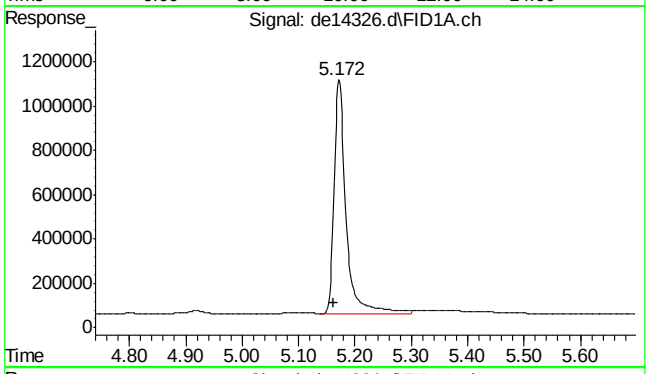
EPH160531W.M Tue May 31 14:21:45 2016 Page: 2

SGS ACCUTEST MC45816A



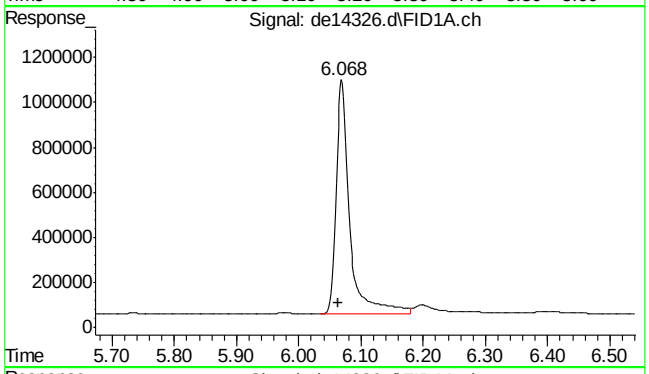
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 34410854
Conc: 350.40 µg/ml



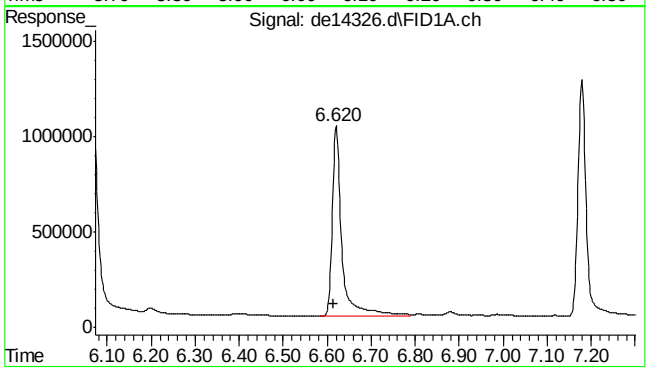
#2 naphthalene

R.T.: 5.172 min
Delta R.T.: 0.008 min
Response: 1573622
Conc: 15.26 µg/ml



#3 2-methylnaphthalene

R.T.: 6.068 min
Delta R.T.: 0.005 min
Response: 1578611
Conc: 15.40 µg/ml



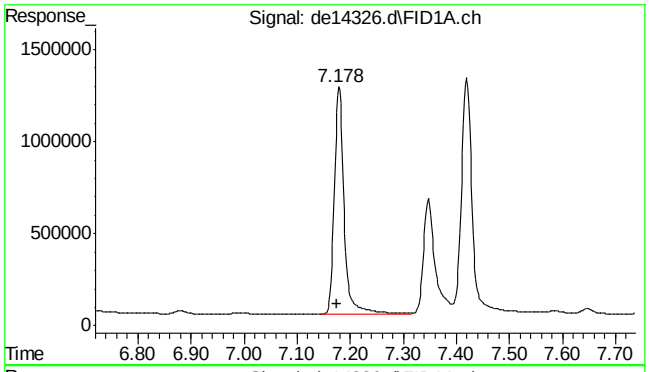
#4 2-fluorobiphenyl

R.T.: 6.620 min
Delta R.T.: 0.005 min
Response: 1518249
Conc: 16.46 µg/ml

9.4.1

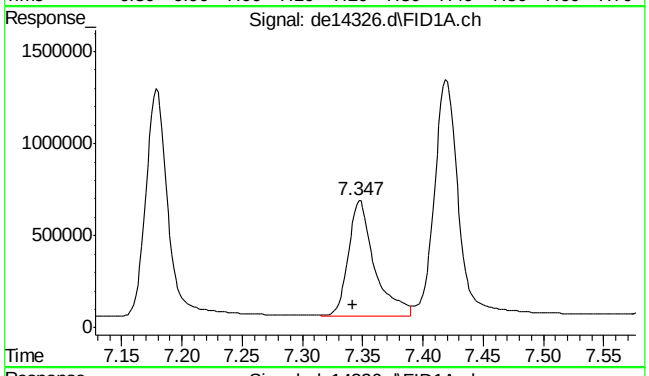
9

SGS ACCUTEST MC45816A



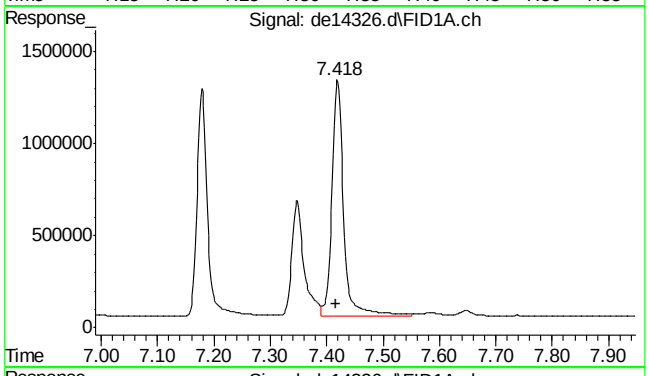
#5 acenaphthylene

R.T.: 7.178 min
Delta R.T.: 0.003 min
Response: 1611753
Conc: 16.02 µg/ml



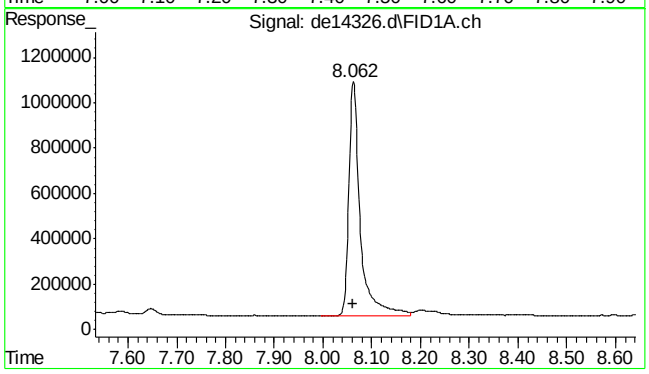
#6 2-bromonaphthalene

R.T.: 7.347 min
Delta R.T.: 0.005 min
Response: 951395
Conc: 15.16 µg/ml



#7 acenaphthene

R.T.: 7.418 min
Delta R.T.: 0.002 min
Response: 1851656
Conc: 17.91 µg/ml



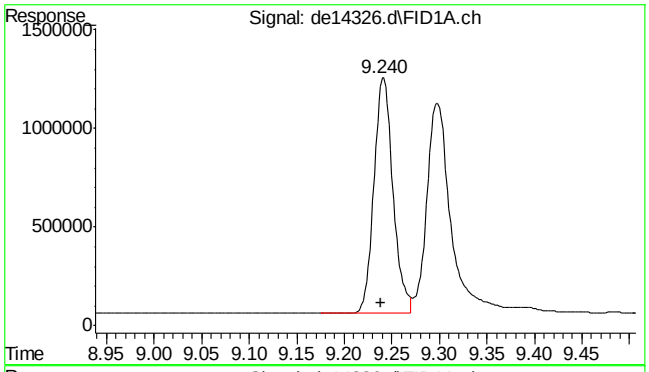
#8 fluorene

R.T.: 8.062 min
Delta R.T.: 0.002 min
Response: 1688747
Conc: 16.63 µg/ml

9.4.1

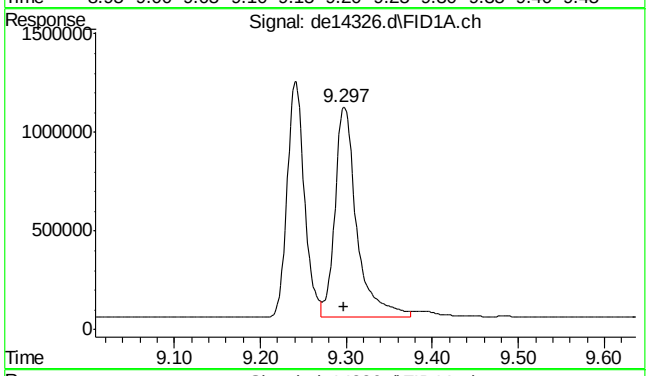
9

SGS ACCUTEST MC45816A



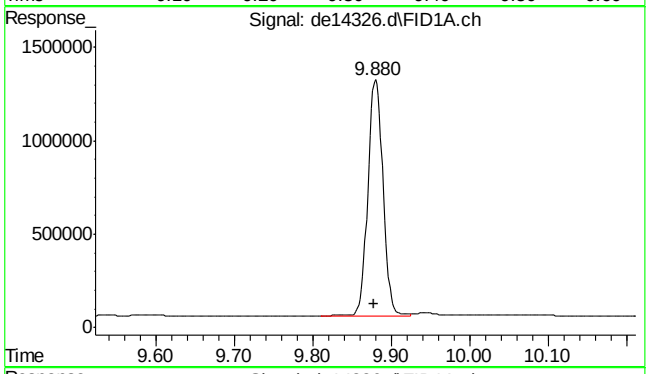
#9 phenanthrene

R.T.: 9.240 min
Delta R.T.: 0.002 min
Response: 1665392
Conc: 16.37 µg/ml



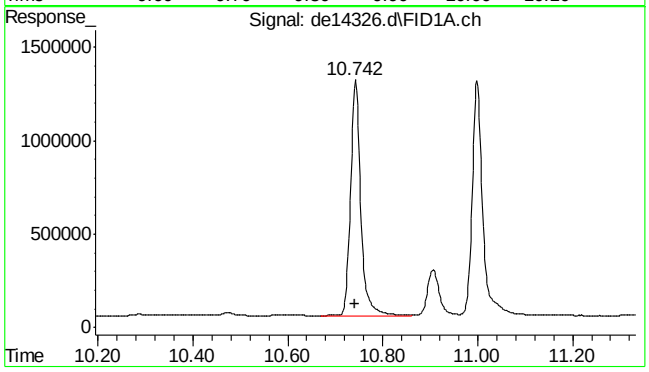
#10 anthracene

R.T.: 9.297 min
Delta R.T.: 0.000 min
Response: 1885667
Conc: 19.44 µg/ml



#11 o-terphenyl

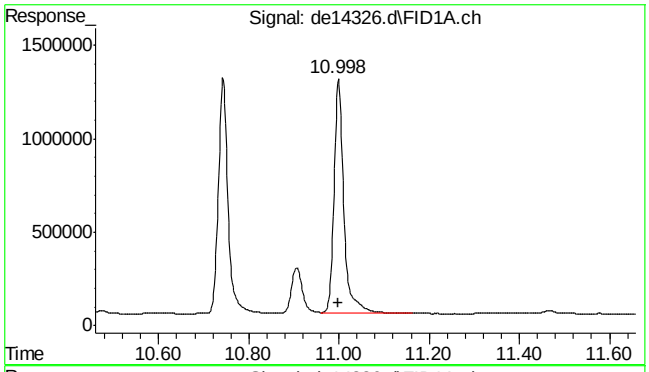
R.T.: 9.880 min
Delta R.T.: 0.002 min
Response: 1692519
Conc: 16.52 µg/ml



#12 fluoranthene

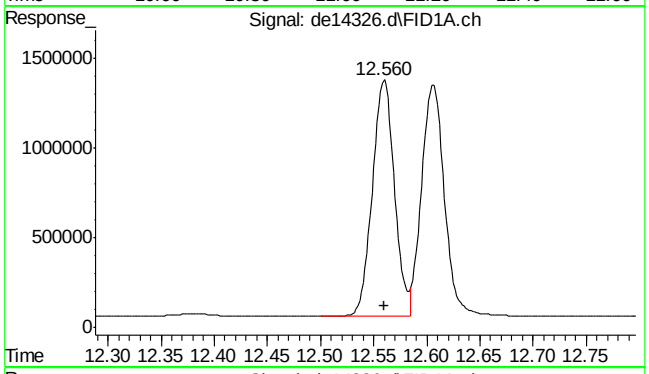
R.T.: 10.742 min
Delta R.T.: 0.000 min
Response: 1892716
Conc: 18.94 µg/ml

SGS ACCUTEST MC45816A



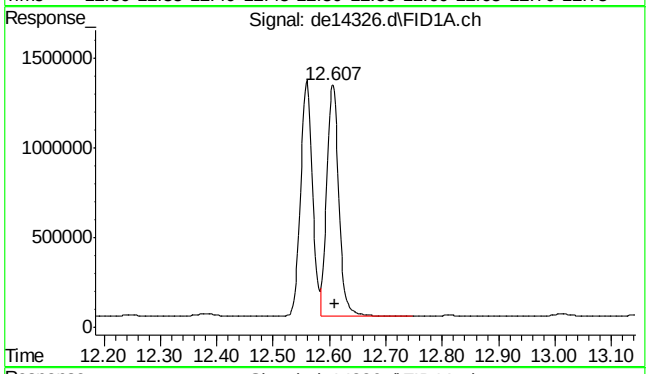
#13 pyrene

R.T.: 10.998 min
Delta R.T.: 0.000 min
Response: 1911164
Conc: 18.84 µg/ml



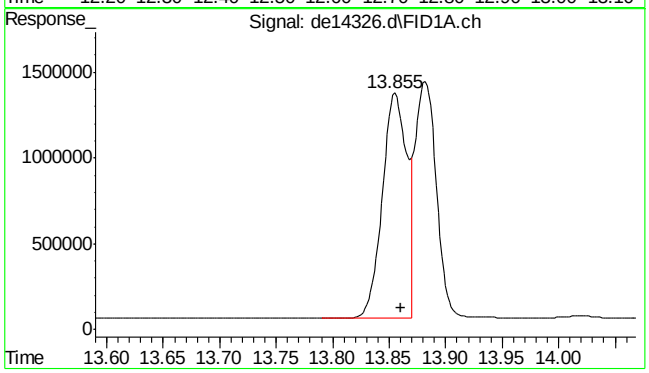
#14 benzo(a)anthracene

R.T.: 12.560 min
Delta R.T.: 0.000 min
Response: 1914365
Conc: 19.80 µg/ml



#15 chrysene

R.T.: 12.607 min
Delta R.T.: -0.003 min
Response: 1915614
Conc: 19.68 µg/ml



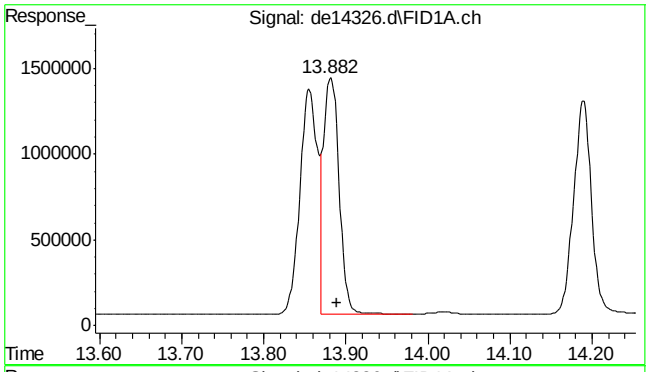
#16 benzo(B)fluoranthene

R.T.: 13.855 min
Delta R.T.: -0.005 min
Response: 2035624
Conc: 20.56 µg/ml

9.4.1

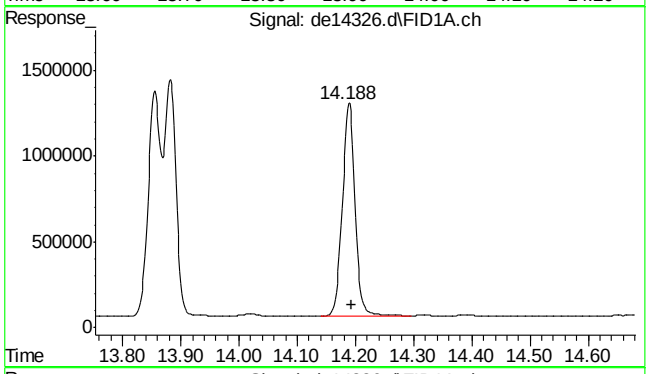
9

SGS ACCUTEST MC45816A



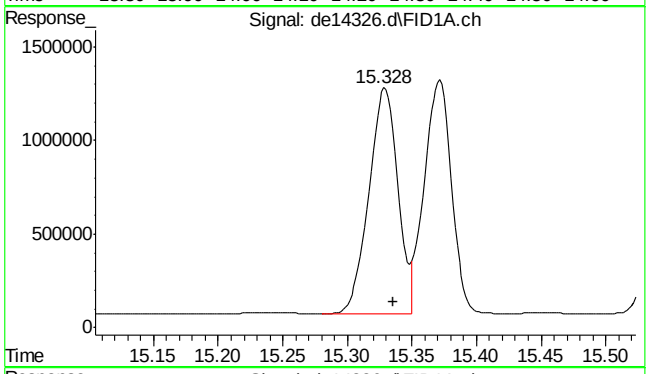
#17 benzo(k)fluoranthene

R.T.: 13.882 min
Delta R.T.: -0.008 min
Response: 1769820
Conc: 18.73 µg/ml



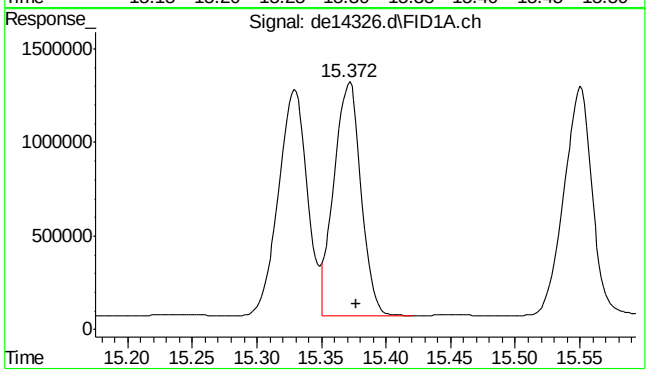
#18 benzo(a)pyrene

R.T.: 14.188 min
Delta R.T.: -0.005 min
Response: 1879887
Conc: 20.34 µg/ml



#19 indeno(1,2,3-cd)pyrene

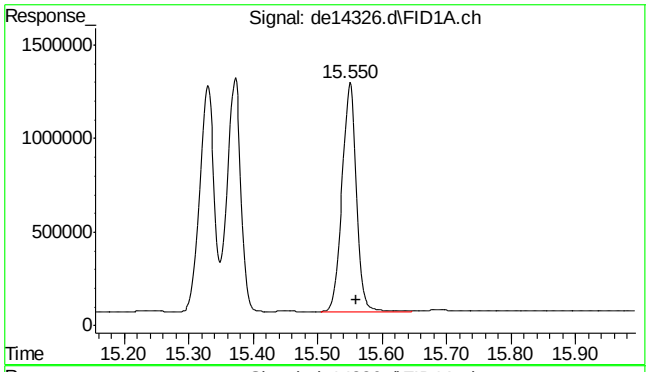
R.T.: 15.328 min
Delta R.T.: -0.007 min
Response: 1900731
Conc: 20.08 µg/ml



#20 dibenzo(ah)anthracene

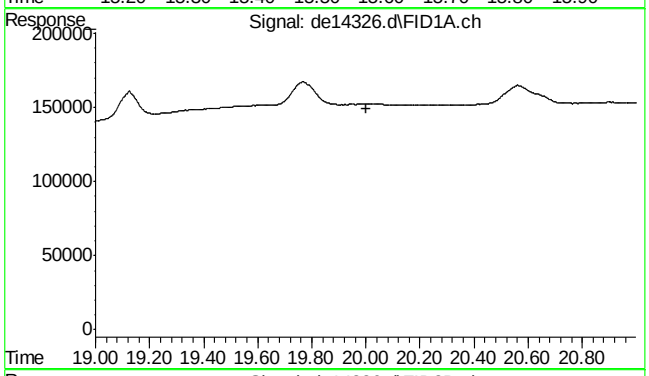
R.T.: 15.372 min
Delta R.T.: -0.005 min
Response: 1810121
Conc: 19.80 µg/ml

SGS ACCUTEST MC45816A



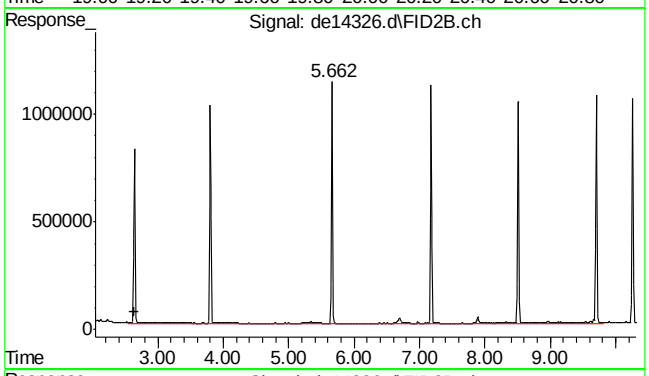
#21 benzo(ghi)perylene

R.T.: 15.550 min
Delta R.T.: -0.010 min
Response: 1865302
Conc: 20.25 µg/ml



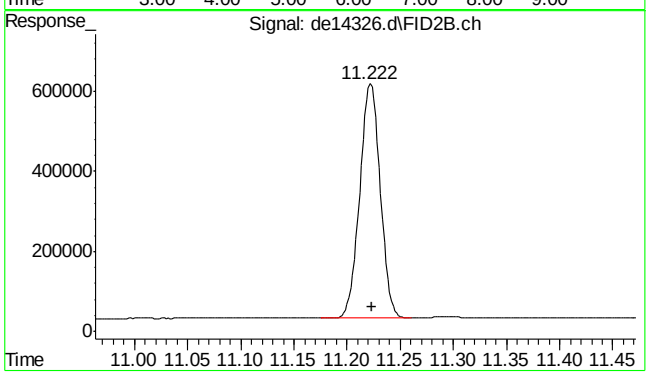
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



#25 c-9

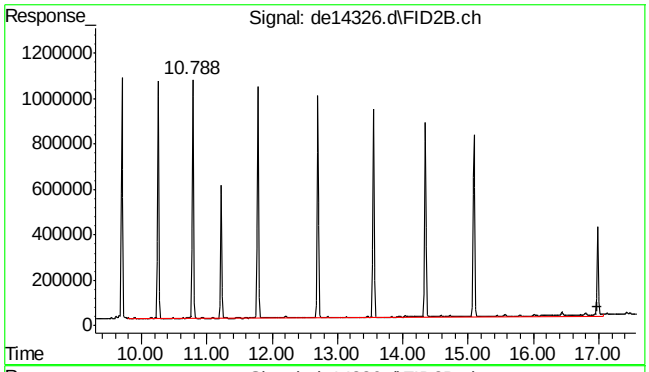
R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 8606374
Conc: 116.50 µg/ml



#35 1-chlorooctadecane

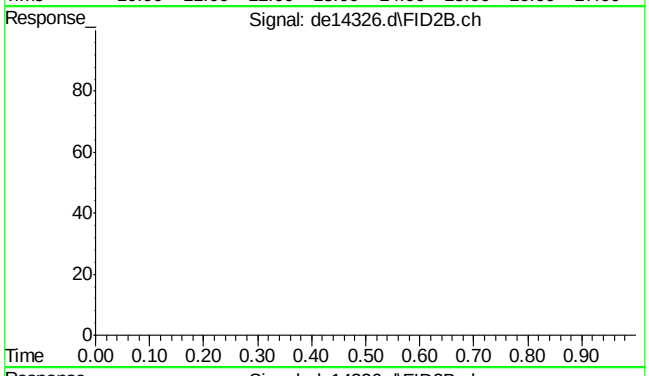
R.T.: 11.222 min
Delta R.T.: -0.002 min
Response: 787979
Conc: 13.93 µg/ml

SGS ACCUTEST MC45816A



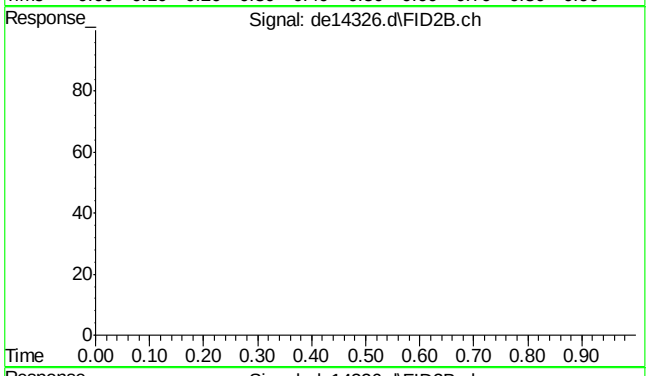
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 11438124
Conc: 171.21 µg/ml m



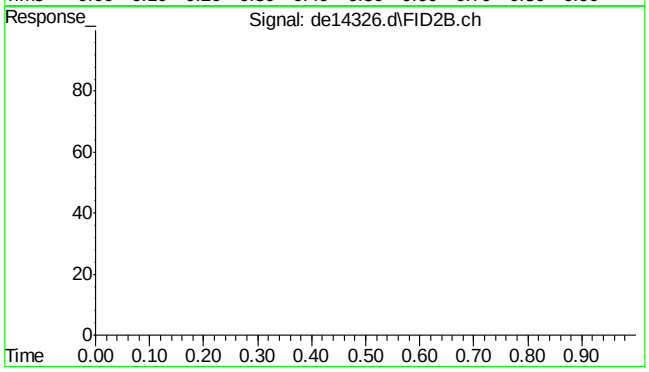
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

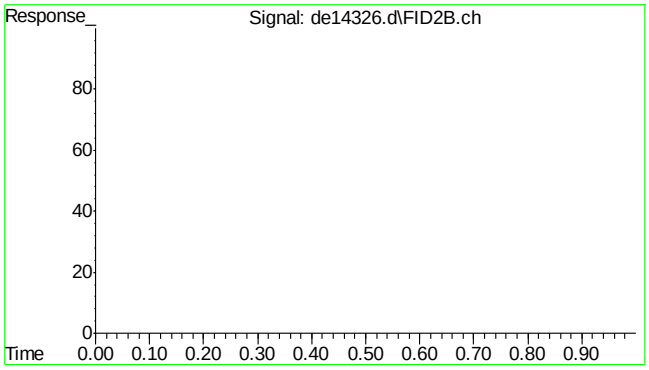
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45816A



#45 bht

R.T.:	0.000 min
Exp R.T. :	23.000 min
Response:	0
Conc:	N.D.

9.4.1

9

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/01/16 13:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14328.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:29 pm
Operator : andrip
Sample : op47572-msd
Misc : op47572,gde801,11.21,,,2,,s
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 14:22:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.622	1421695	15.415 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	77.07%#
6) s 2-bromonaphthalene	7.347	795748	12.680 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	63.40%#
11) s o-terphenyl	9.880	1706074	16.657 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	83.28%#
35) s 1-chlorooctadecane	11.222	1073728	18.979 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	94.89%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	34207276	348.327 µg/ml
2) naphthalene	5.172	1524164	14.778 µg/ml
3) 2-methylnaphthalene	6.070	1543104	15.057 µg/ml
5) acenaphthylene	7.178	1616674	16.070 µg/ml
7) acenaphthene	7.418	1803758	17.448 µg/ml
8) fluorene	8.063	1691266	16.652 µg/ml
9) phenanthrene	9.242	1678114	16.490 µg/ml
10) anthracene	9.297	1897080	19.556 µg/mlm
12) fluoranthene	10.742	1912828	19.140 µg/ml
13) pyrene	10.997	1930669	19.028 µg/ml
14) benzo(a)anthracene	12.560	1923029	19.892 µg/ml
15) chrysene	12.607	1929962	19.827 µg/ml
16) benzo(B)fluoranthene	13.855	1995078	20.152 µg/ml
17) benzo(k)fluoranthene	13.883	1827455	19.338 µg/ml
18) benzo(a)pyrene	14.188	1895919	20.511 µg/ml
19) indeno(1,2,3-cd)pyrene	15.330	1908633	20.163 µg/ml
20) dibenzo(ah)anthracene	15.372	1823345	19.949 µg/ml
21) benzo(ghi)perylene	15.548	1867177	20.268 µg/ml
25) h c-9	2.647	8483592	114.842 µg/ml
41) h c-36	16.983	11847947	177.347 µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

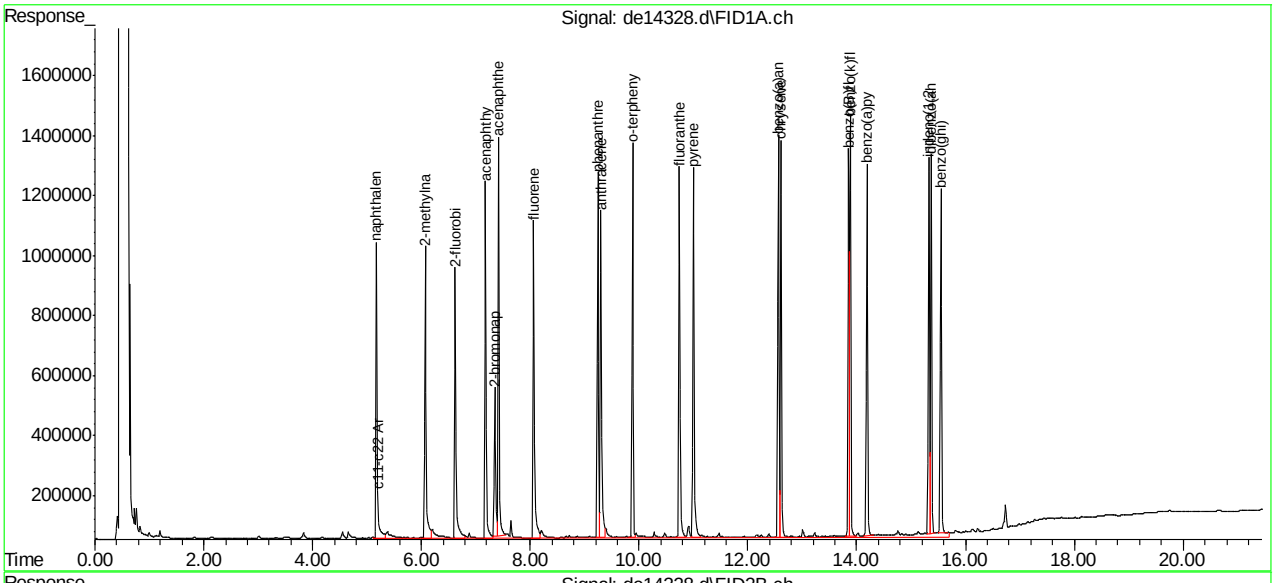
9.4.2
9

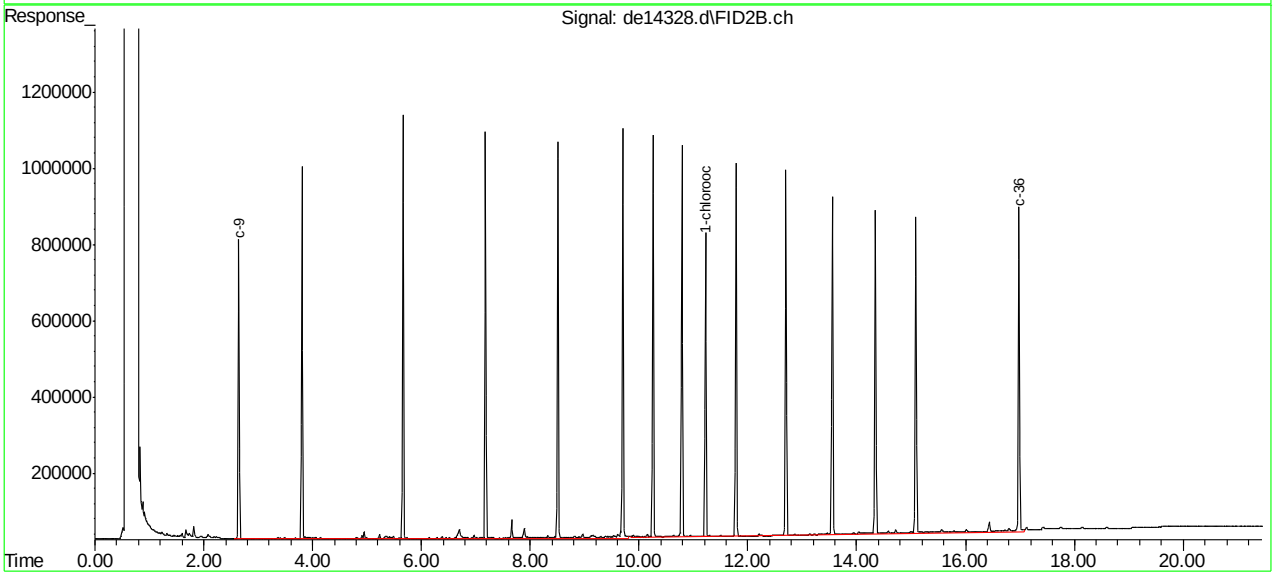
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14328.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:29 pm
Operator : andrip
Sample : op47572-msd
Misc : op47572,gde801,11.21,,,2,,s
ALS Vial : 22 Sample Multiplier: 1

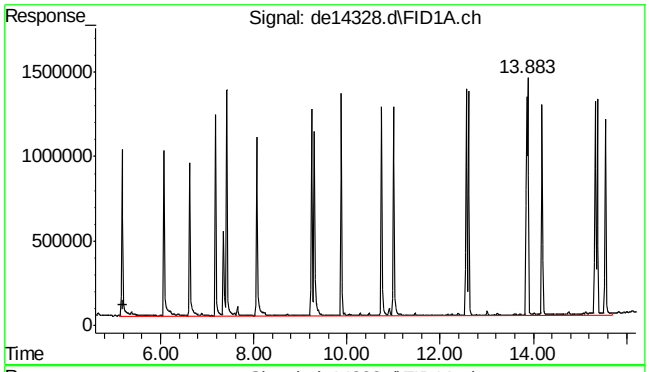
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 14:22:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



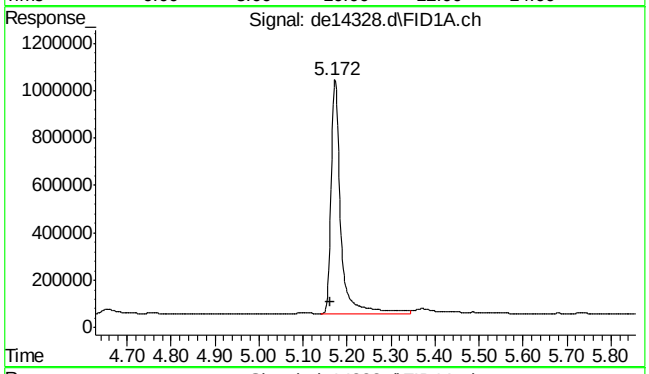


EPH160531W.M Tue May 31 14:22:40 2016 Page: 2



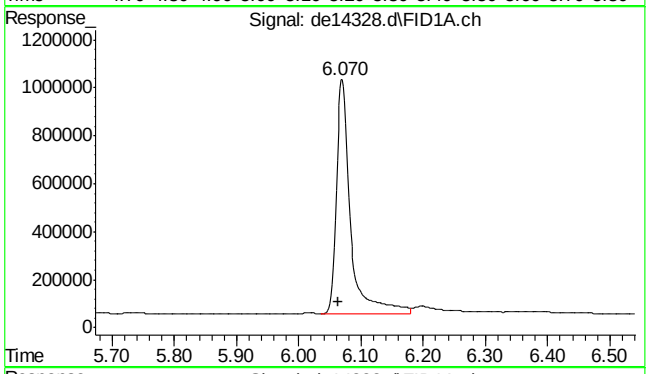
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 34207276
Conc: 348.33 µg/ml



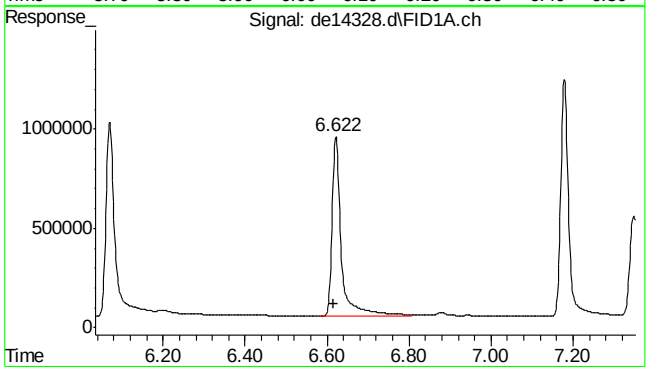
#2 naphthalene

R.T.: 5.172 min
Delta R.T.: 0.008 min
Response: 1524164
Conc: 14.78 µg/ml



#3 2-methylnaphthalene

R.T.: 6.070 min
Delta R.T.: 0.007 min
Response: 1543104
Conc: 15.06 µg/ml



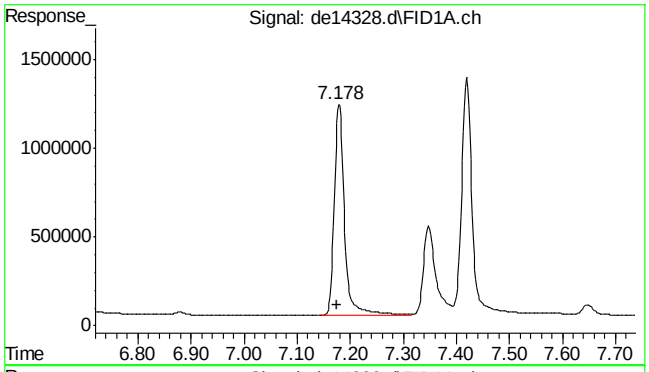
#4 2-fluorobiphenyl

R.T.: 6.622 min
Delta R.T.: 0.007 min
Response: 1421695
Conc: 15.41 µg/ml

9.4.2

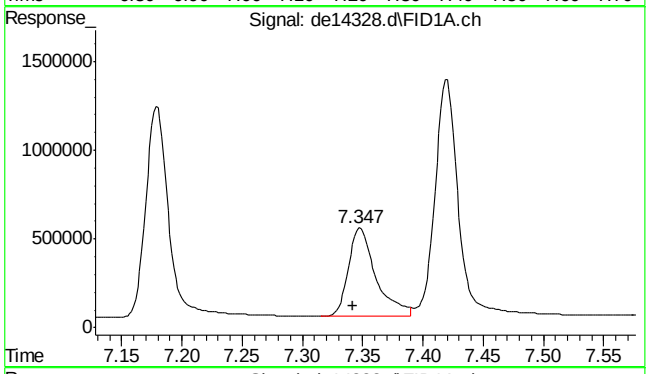
9

SGS ACCUTEST MC45816A



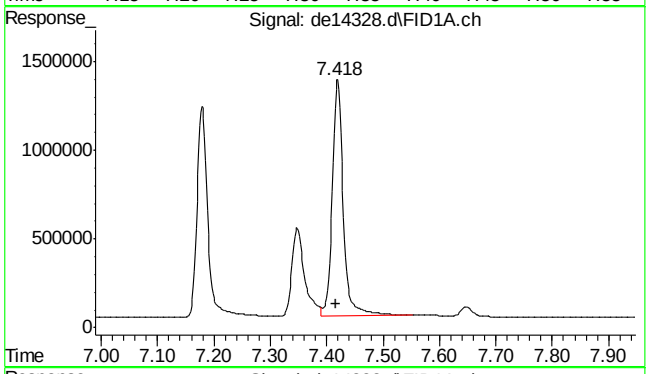
#5 acenaphthylene

R.T.: 7.178 min
Delta R.T.: 0.003 min
Response: 1616674
Conc: 16.07 µg/ml



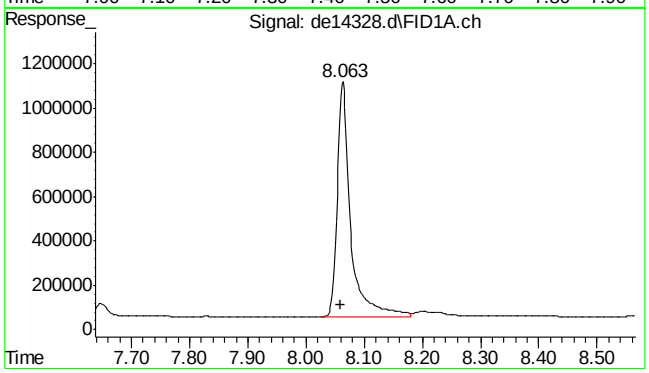
#6 2-bromonaphthalene

R.T.: 7.347 min
Delta R.T.: 0.005 min
Response: 795748
Conc: 12.68 µg/ml



#7 acenaphthene

R.T.: 7.418 min
Delta R.T.: 0.002 min
Response: 1803758
Conc: 17.45 µg/ml



#8 fluorene

R.T.: 8.063 min
Delta R.T.: 0.003 min
Response: 1691266
Conc: 16.65 µg/ml

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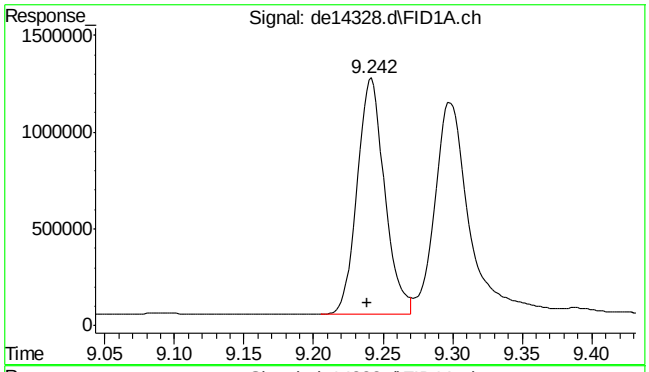
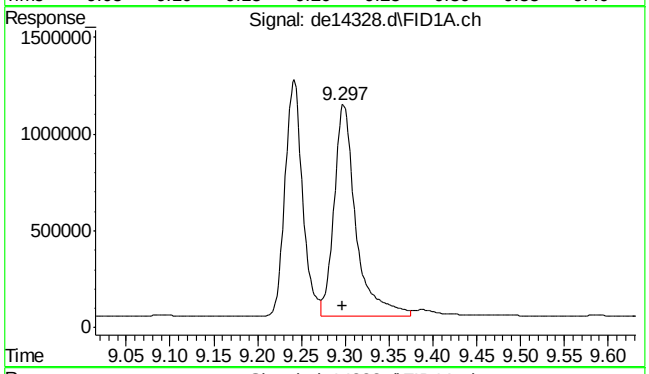


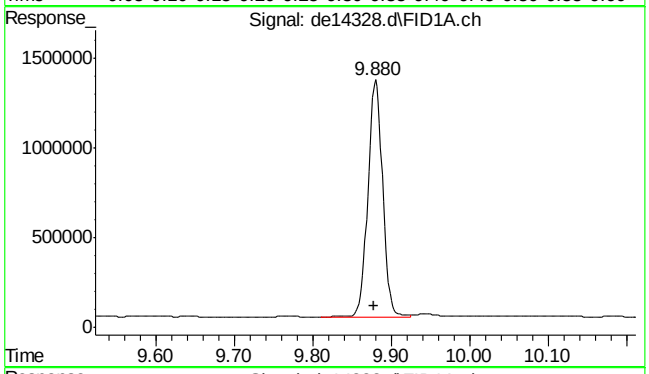
#9 phenanthrene

R.T.: 9.242 min
Delta R.T.: 0.003 min
Response: 1678114
Conc: 16.49 µg/ml



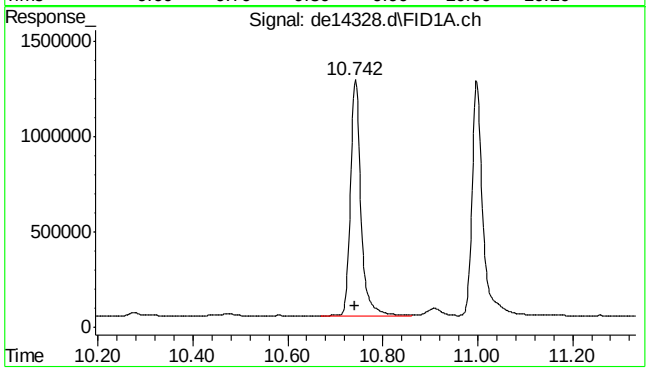
#10 anthracene

R.T.: 9.297 min
Delta R.T.: 0.000 min
Response: 1897080
Conc: 19.56 µg/ml m



#11 o-terphenyl

R.T.: 9.880 min
Delta R.T.: 0.002 min
Response: 1706074
Conc: 16.66 µg/ml



#12 fluoranthene

R.T.: 10.742 min
Delta R.T.: 0.000 min
Response: 1912828
Conc: 19.14 µg/ml

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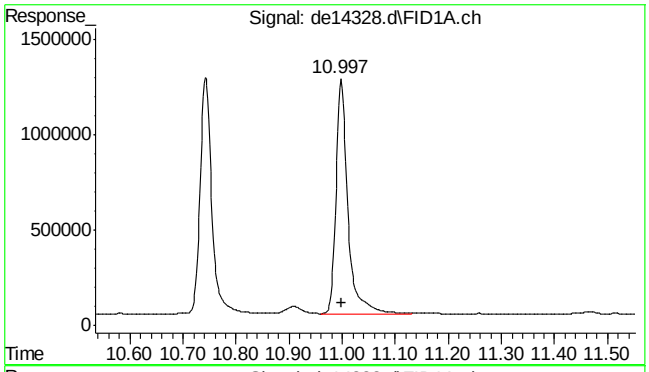
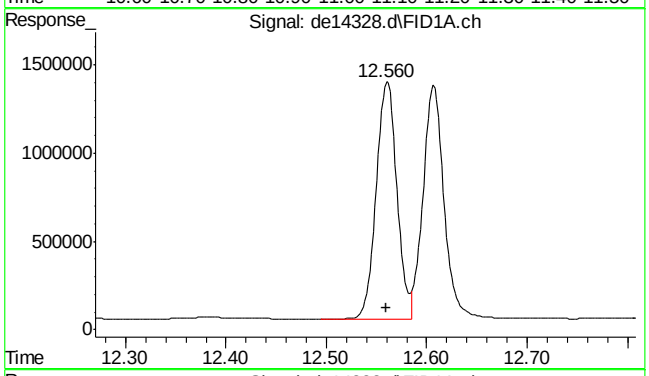


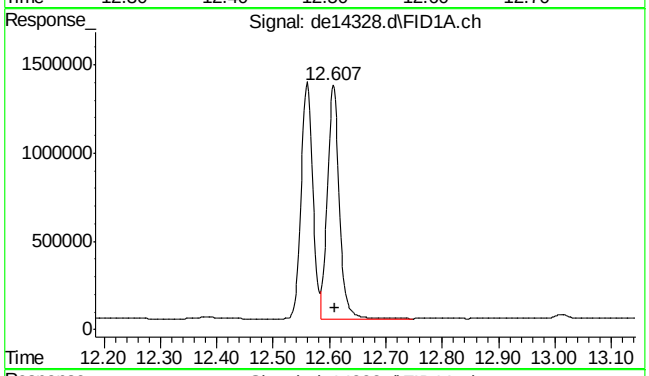
#13 pyrene

R.T.: 10.997 min
Delta R.T.: -0.002 min
Response: 1930669
Conc: 19.03 µg/ml



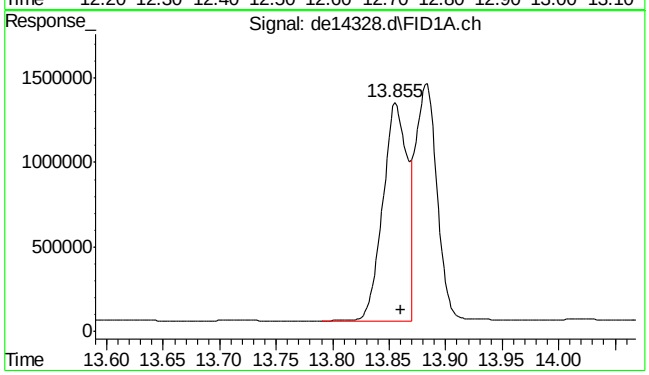
#14 benzo(a)anthracene

R.T.: 12.560 min
Delta R.T.: 0.000 min
Response: 1923029
Conc: 19.89 µg/ml



#15 chrysene

R.T.: 12.607 min
Delta R.T.: -0.003 min
Response: 1929962
Conc: 19.83 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.855 min
Delta R.T.: -0.005 min
Response: 1995078
Conc: 20.15 µg/ml

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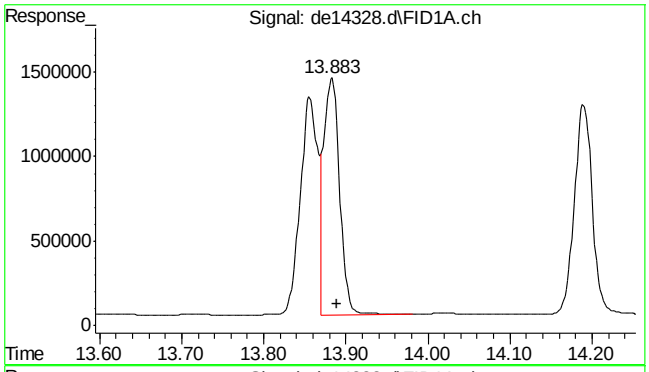
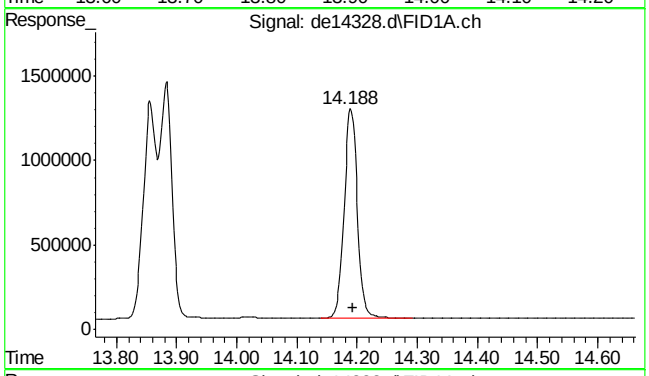


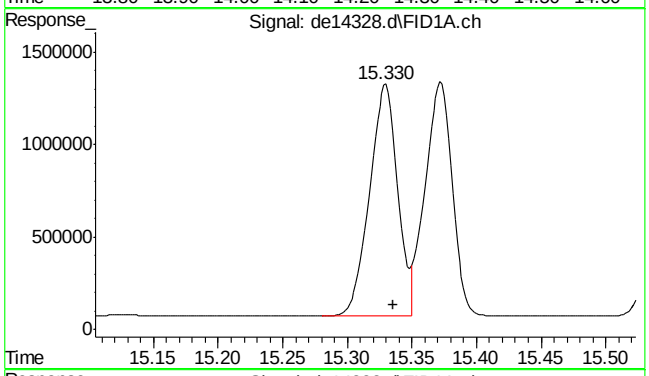
#17 benzo(k)fluoranthene

R.T.: 13.883 min
Delta R.T.: -0.007 min
Response: 1827455
Conc: 19.34 µg/ml



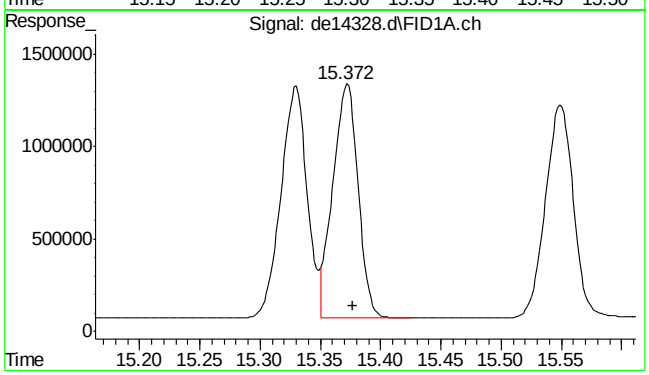
#18 benzo(a)pyrene

R.T.: 14.188 min
Delta R.T.: -0.005 min
Response: 1895919
Conc: 20.51 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.330 min
Delta R.T.: -0.005 min
Response: 1908633
Conc: 20.16 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.372 min
Delta R.T.: -0.005 min
Response: 1823345
Conc: 19.95 µg/ml

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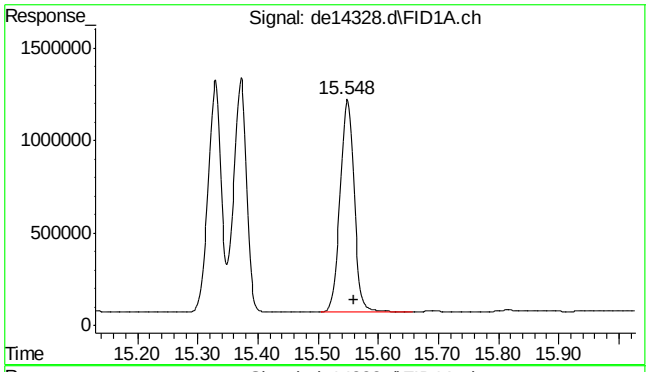
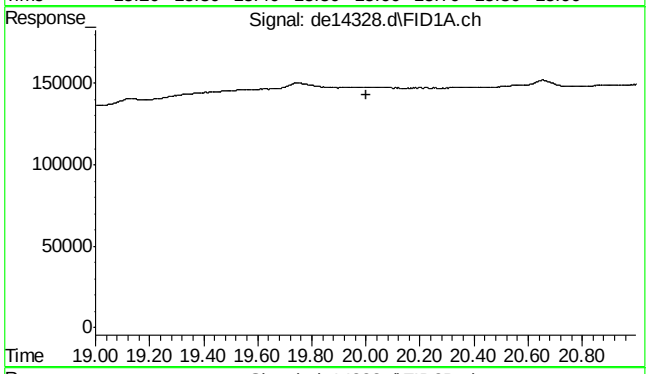


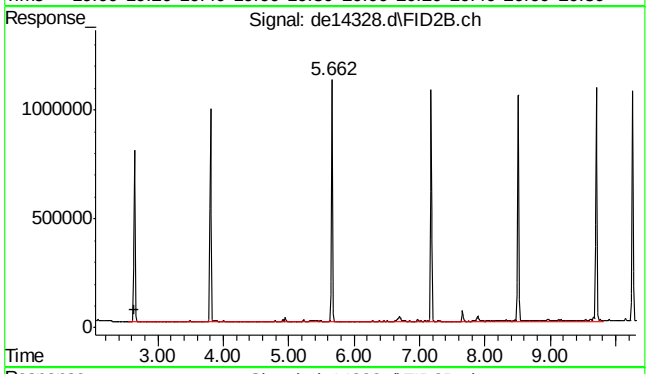
#21 benzo(ghi)perylene

R.T.: 15.548 min
Delta R.T.: -0.012 min
Response: 1867177
Conc: 20.27 µg/ml



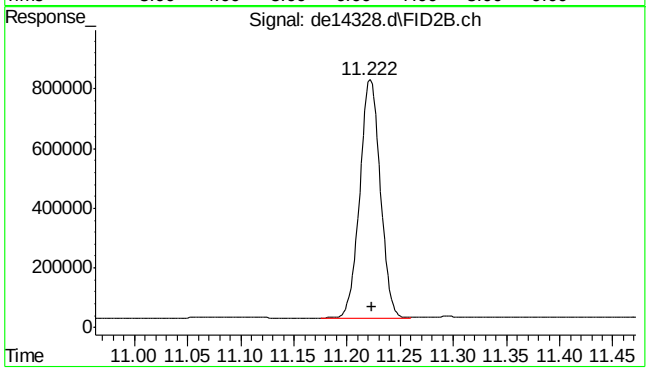
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



#25 c-9

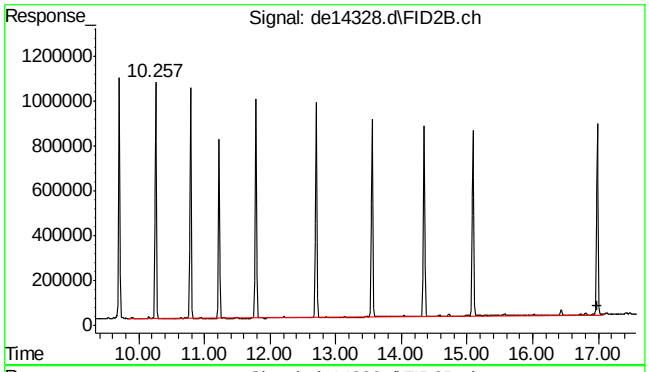
R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 8483592
Conc: 114.84 µg/ml



#35 1-chlorooctadecane

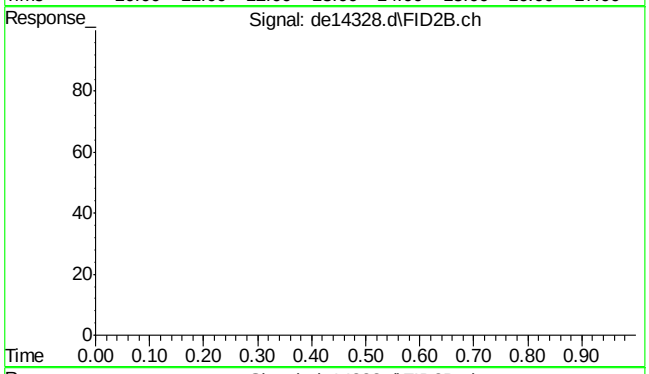
R.T.: 11.222 min
Delta R.T.: -0.002 min
Response: 1073728
Conc: 18.98 µg/ml

SGS ACCUTEST MC45816A



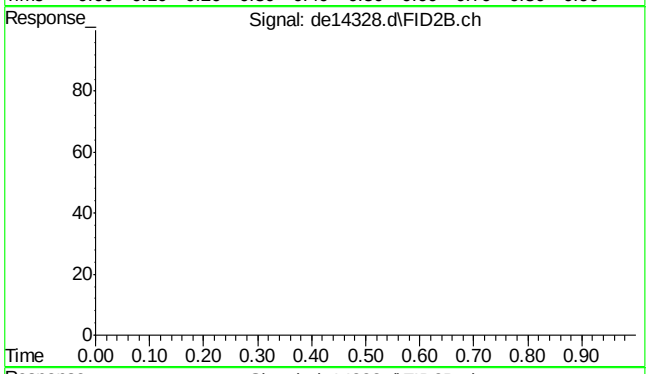
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 11847947
Conc: 177.35 µg/ml m



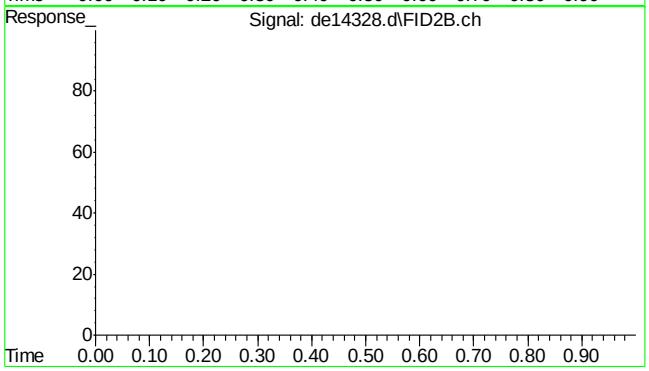
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



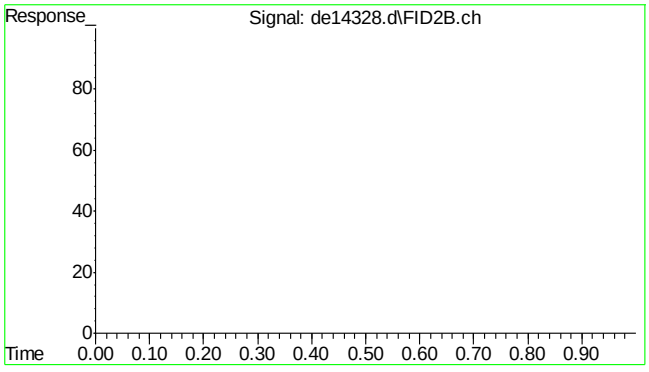
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.2

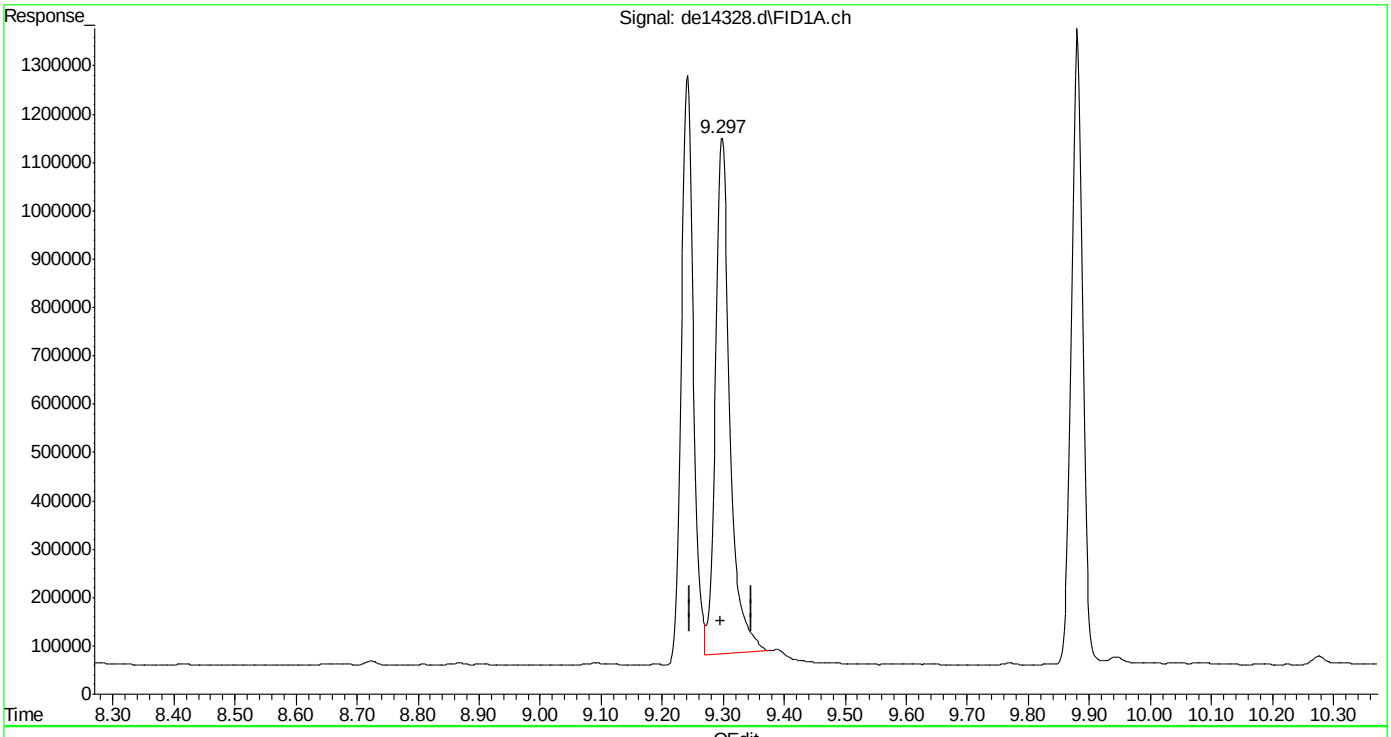
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14328.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:29 pm
Operator : andrip
Sample : op47572-msd
Misc : op47572,gde801,11.21,,,2,,s
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 14:21:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) anthracene
9.297min 18.004 µg/ml
response 1746507

(+) = Expected Retention Time
EPH160531W.M Tue May 31 14:22:09 2016

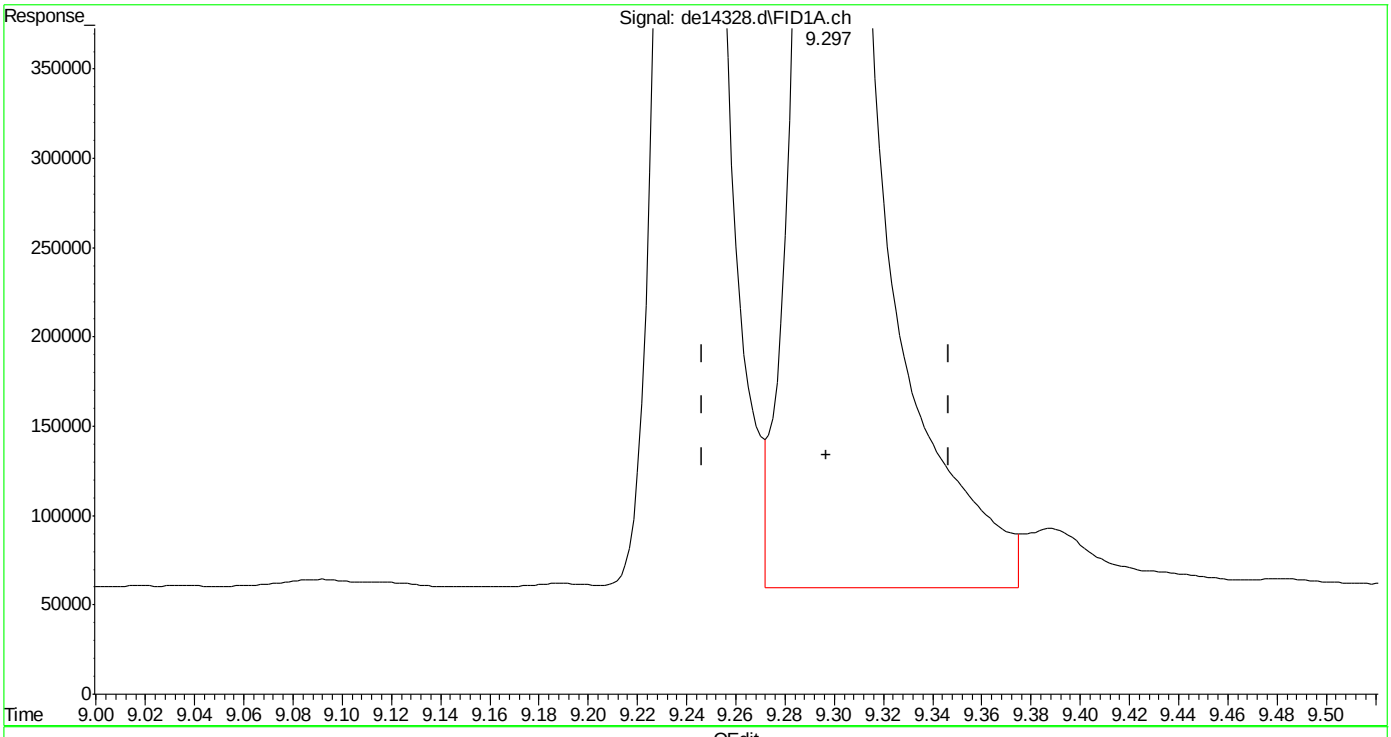
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14328.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:29 pm
Operator : andrip
Sample : op47572-msd
Misc : op47572,gde801,11.21,,,2,,s
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 14:21:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) anthracene
9.297min 19.556 µg/ml m
response 1897080

(+) = Expected Retention Time
EPH160531W.M Tue May 31 14:22:14 2016

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	93024	0.934 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 4.67%#		
6) s 2-bromonaphthalene	7.530	61936	0.915 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 4.58%#		
11) s o-terphenyl	10.077	103028	0.955 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 4.78%#		
35) s 1-chlorooctadecane	11.247	61176	1.132 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 5.66%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	2460719	2.656 µg/mlm
2) naphthalene	5.353	100885	0.898 µg/ml
3) 2-methylnaphthalene	6.250	102950	0.929 µg/ml
5) acenaphthylene	7.365	99947	0.913 µg/ml
7) acenaphthene	7.607	101818	0.916 µg/ml
8) fluorene	8.250	100695	0.925 µg/ml
9) phenanthrene	9.435	101800	0.942 µg/ml
10) anthracene	9.490	96242	0.961 µg/ml
12) fluoranthene	10.940	103521	0.991 µg/ml
13) pyrene	11.198	105548	1.007 µg/ml
14) benzo(a)anthracene	12.758	100487	1.022 µg/mlm
15) chrysene	12.805	100279	1.010 µg/mlm
16) benzo(B)fluoranthene	14.053	100827	0.988 µg/mlm
17) benzo(k)fluoranthene	14.078	95833	0.978 µg/mlm
18) benzo(a)pyrene	14.388	94743	0.968 µg/ml
19) indeno(1,2,3-cd)pyrene	15.522	94483	0.967 µg/ml
20) dibenzo(ah)anthracene	15.568	92785	0.988 µg/ml
21) benzo(ghi)perylene	15.740f	93453	0.991 µg/ml
25) h c-9	2.680	76082	1.052 µg/mlm
26) h c-10	3.833	77300	1.065 µg/mlm
27) naphthalene #2	5.510	81982	1.068 µg/ml
28) c-12	5.685	76748	1.061 µg/ml
29) 2-methylnaphthalene #2	6.403	85696	1.079 µg/ml
30) c-14	7.202	77909	1.081 µg/ml
31) c-16	8.530	78733	1.103 µg/ml
32) c-18	9.725	77956	1.097 µg/ml
33) c-19	10.282	78108	1.157 µg/ml
34) c-20	10.812	75638	1.131 µg/ml
36) c-22	11.807	73192	1.099 µg/ml
37) c-24	12.725	69851	1.086 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.578	72850	1.099	µg/ml
39)		c-28	14.370	69399	1.064	µg/ml
40)	h	c-30	15.122	74594	1.144	µg/mlm
41)	h	c-36	17.010	60516	0.967	µg/mlm

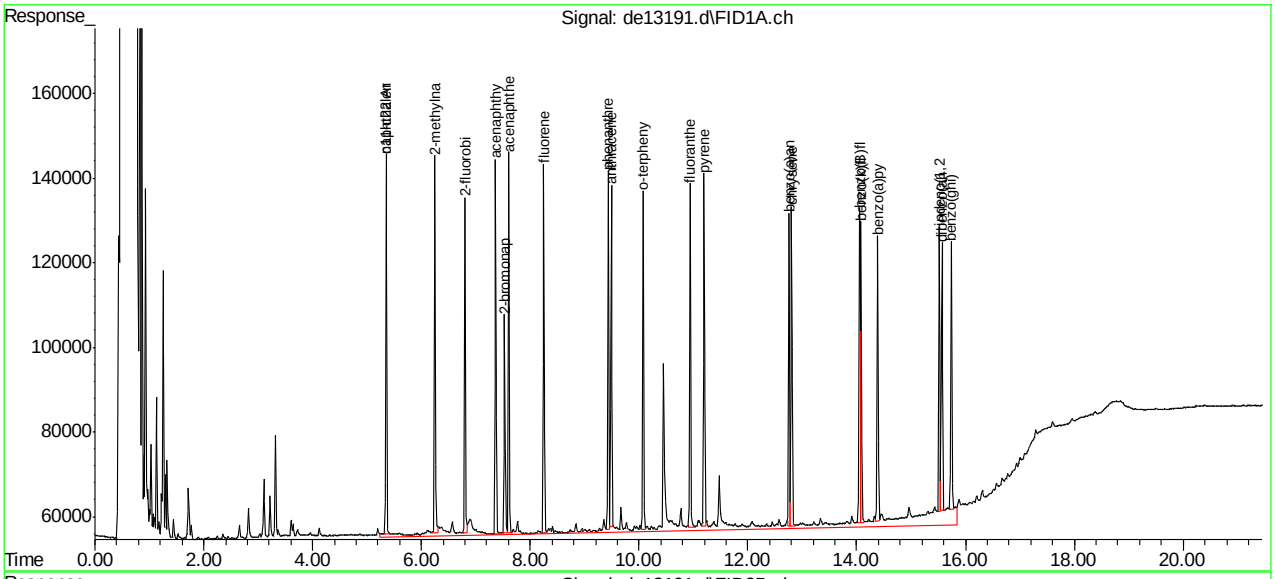
(f)=RT Delta > 1/2 Window (m)=manual int.

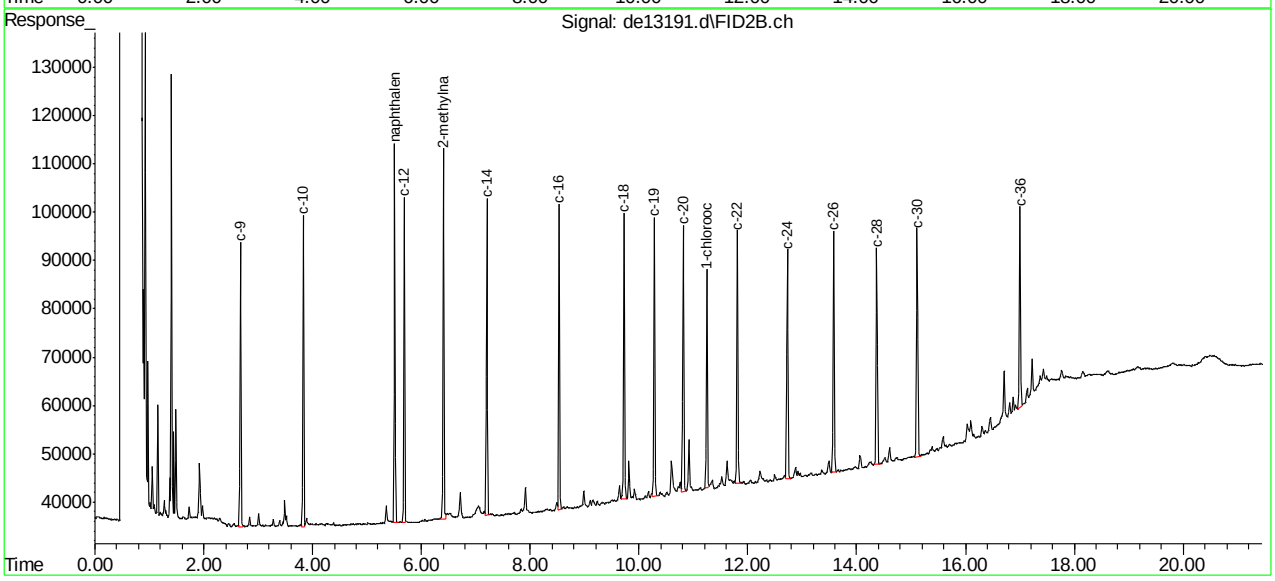
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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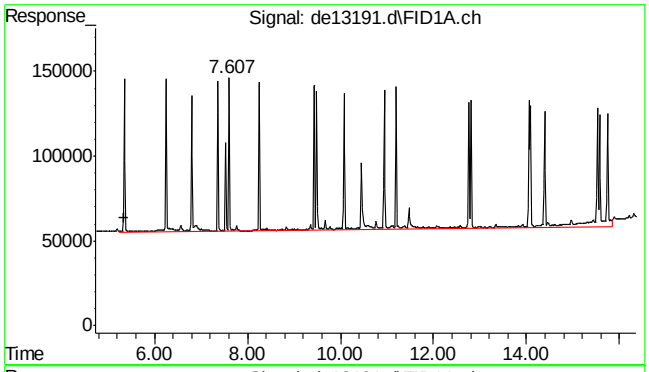
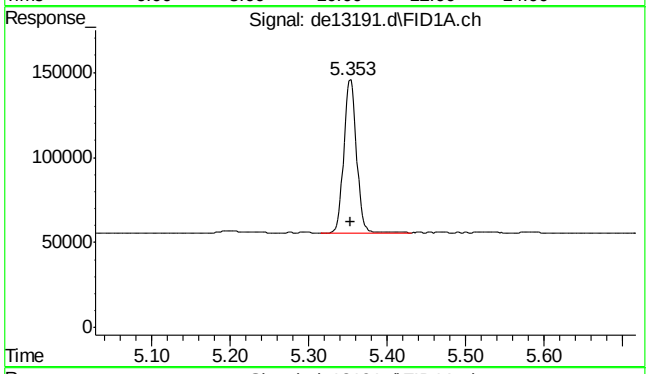


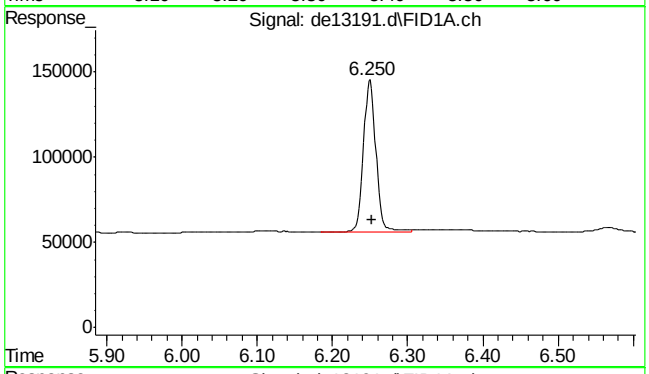
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2460719
Conc: 2.66 µg/ml m



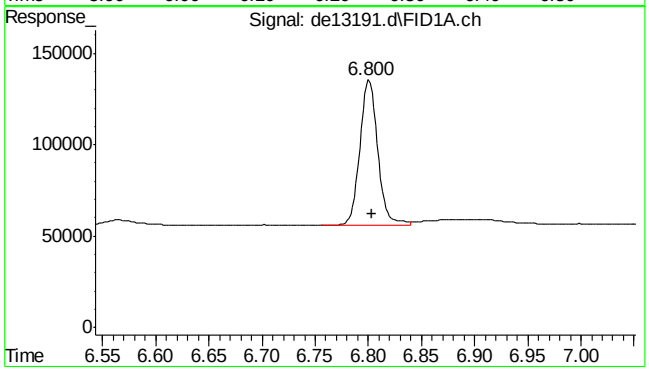
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 100885
Conc: 0.90 µg/ml



#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 102950
Conc: 0.93 µg/ml



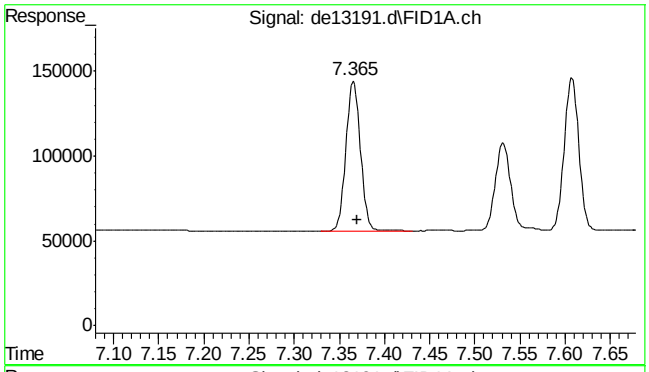
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 93024
Conc: 0.93 µg/ml

9.5.1

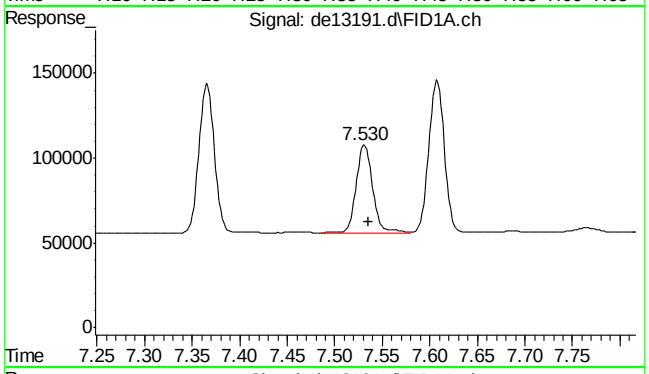
9

SGS ACCUTEST MC45816A



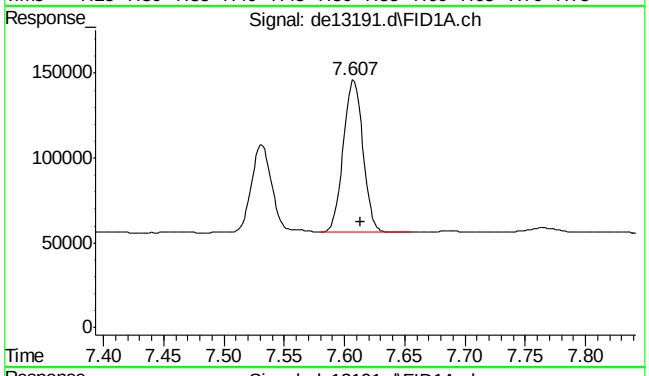
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 99947
Conc: 0.91 µg/ml



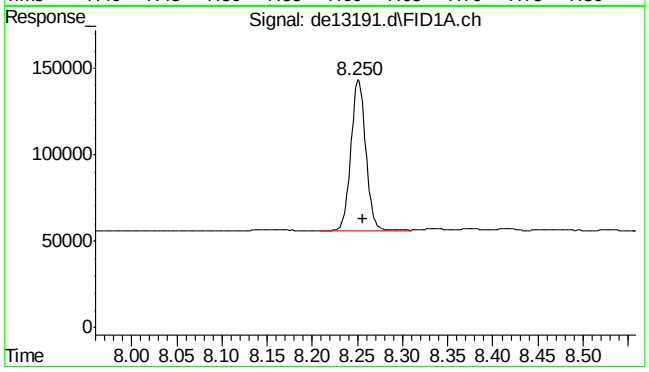
#6 2-bromonaphthalene

R.T.: 7.530 min
Delta R.T.: -0.005 min
Response: 61936
Conc: 0.91 µg/ml



#7 acenaphthene

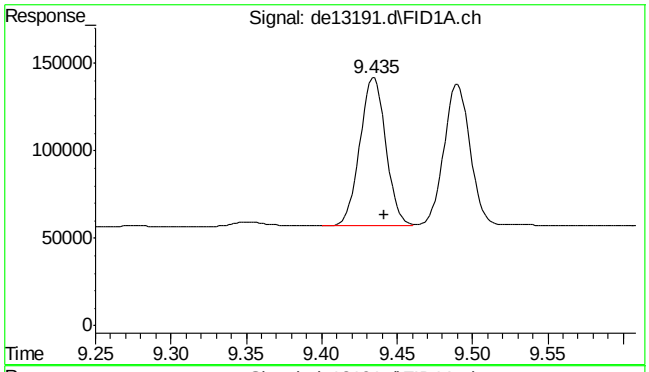
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 101818
Conc: 0.92 µg/ml



#8 fluorene

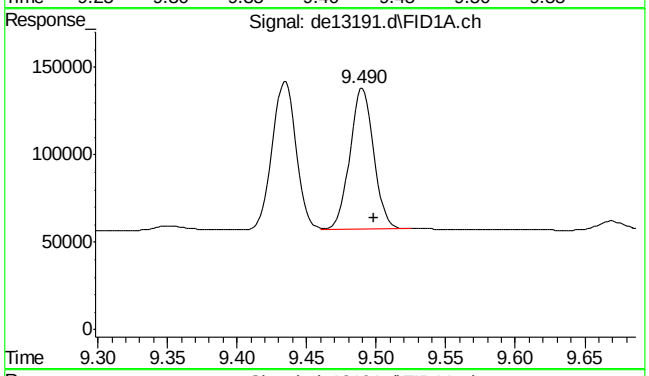
R.T.: 8.250 min
Delta R.T.: -0.007 min
Response: 100695
Conc: 0.92 µg/ml

SGS ACCUTEST MC45816A



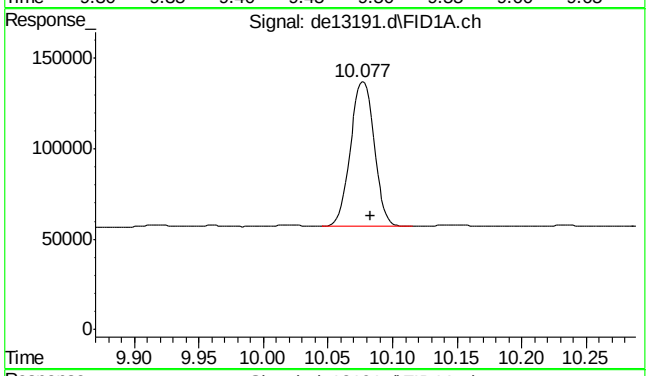
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 101800
Conc: 0.94 µg/ml



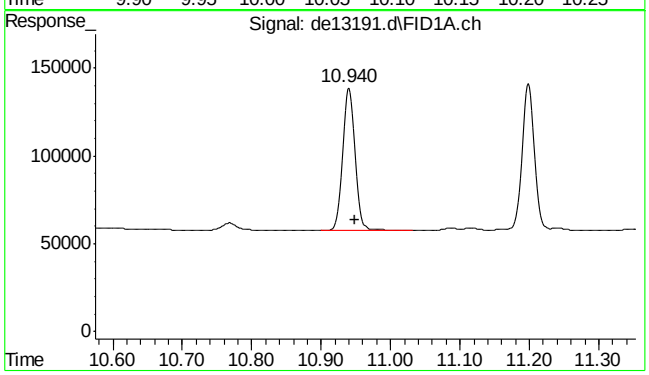
#10 anthracene

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 96242
Conc: 0.96 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 103028
Conc: 0.95 µg/ml



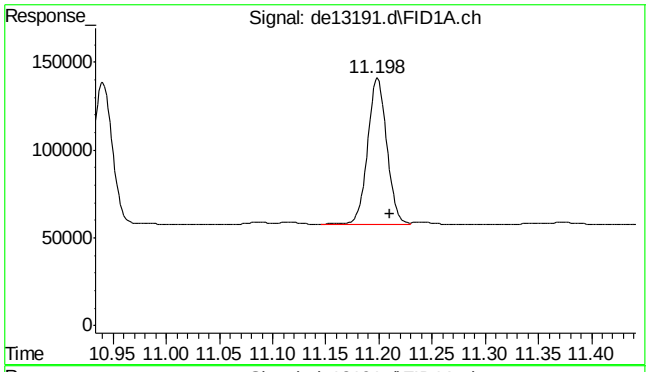
#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 103521
Conc: 0.99 µg/ml

9.5.1

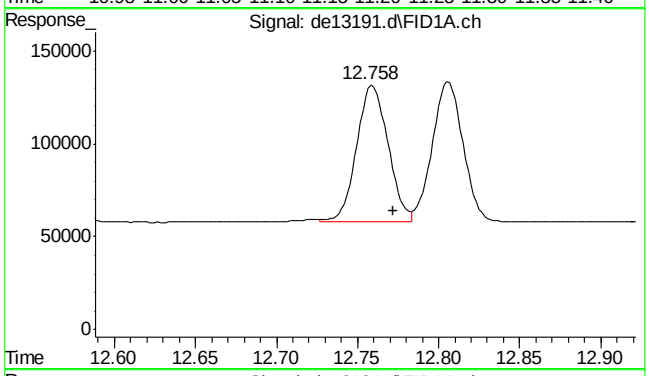
9

SGS ACCUTEST MC45816A



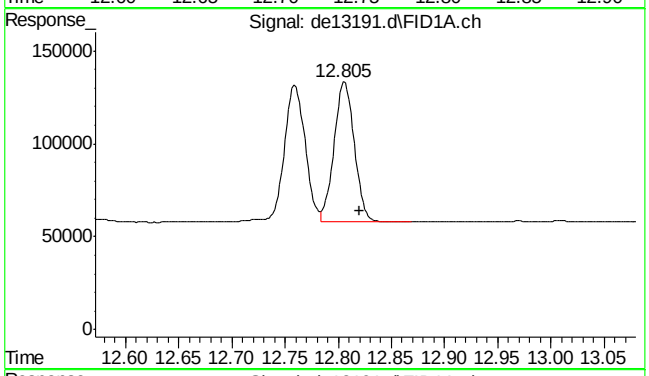
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 105548
Conc: 1.01 µg/ml



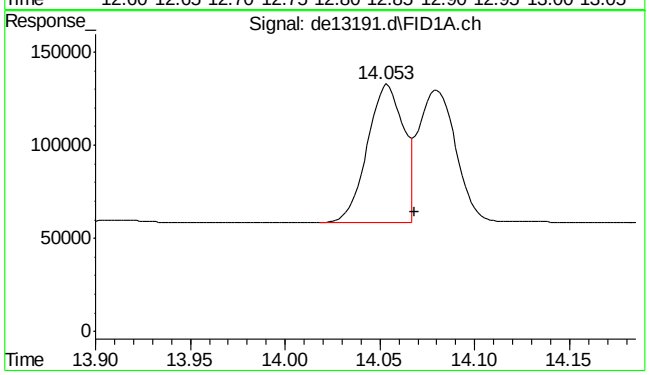
#14 benzo(a)anthracene

R.T.: 12.758 min
Delta R.T.: -0.013 min
Response: 100487
Conc: 1.02 µg/ml m



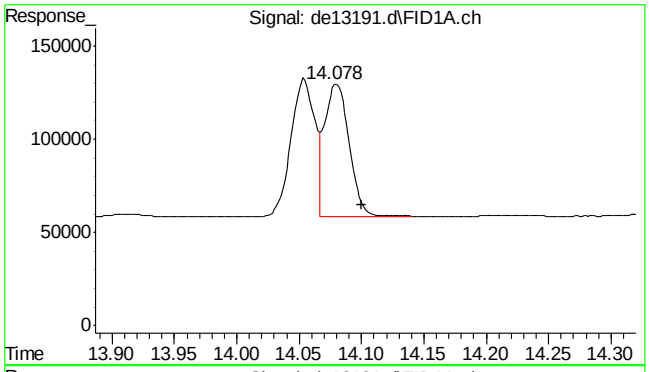
#15 chrysene

R.T.: 12.805 min
Delta R.T.: -0.015 min
Response: 100279
Conc: 1.01 µg/ml m



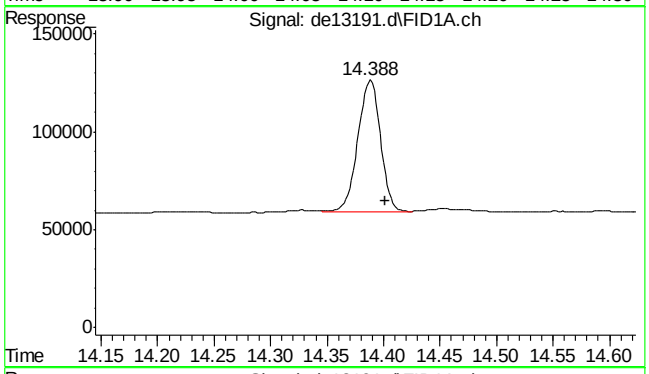
#16 benzo(B)fluoranthene

R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 100827
Conc: 0.99 µg/ml m



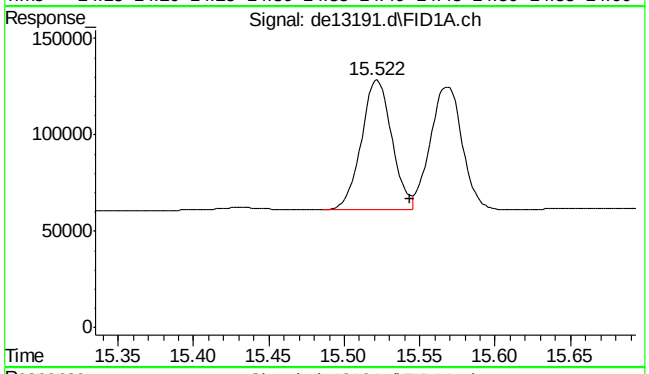
#17 benzo(k)fluoranthene

R.T.: 14.078 min
Delta R.T.: -0.022 min
Response: 95833
Conc: 0.98 µg/ml m



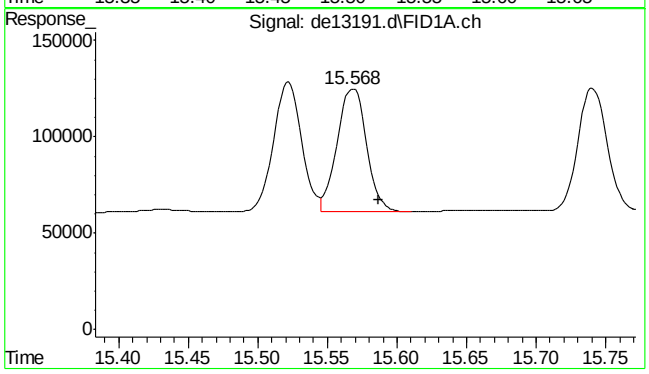
#18 benzo(a)pyrene

R.T.: 14.388 min
Delta R.T.: -0.013 min
Response: 94743
Conc: 0.97 µg/ml



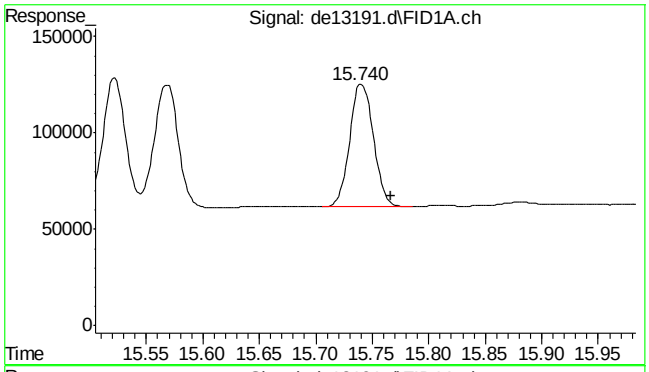
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.522 min
Delta R.T.: -0.022 min
Response: 94483
Conc: 0.97 µg/ml



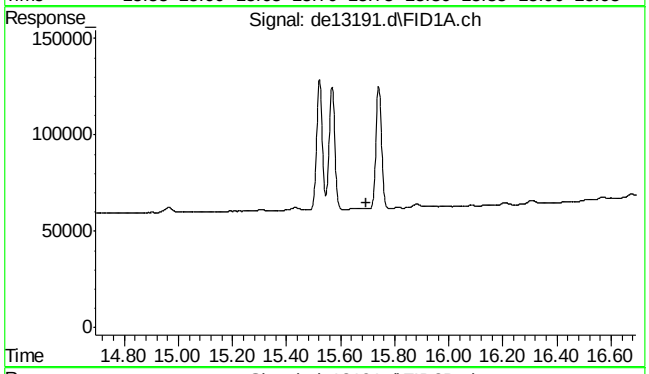
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 92785
Conc: 0.99 µg/ml



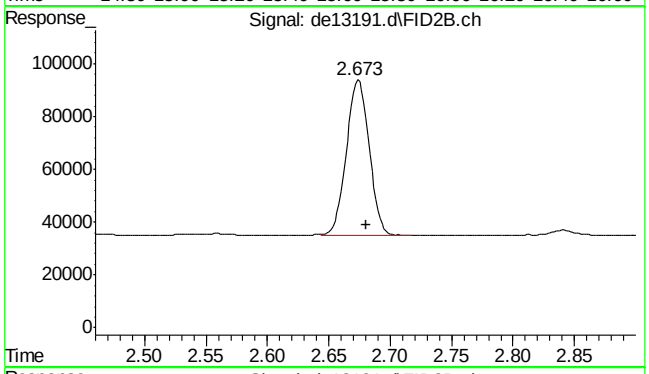
#21 benzo(ghi)perylene

R.T.: 15.740 min
Delta R.T.: -0.027 min
Response: 93453
Conc: 0.99 µg/ml



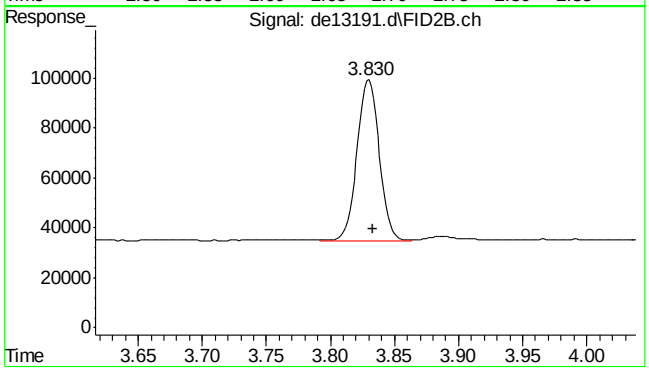
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



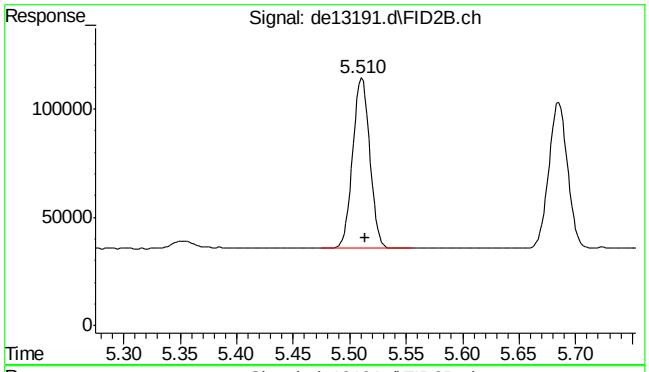
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 76082
Conc: 1.05 µg/ml m



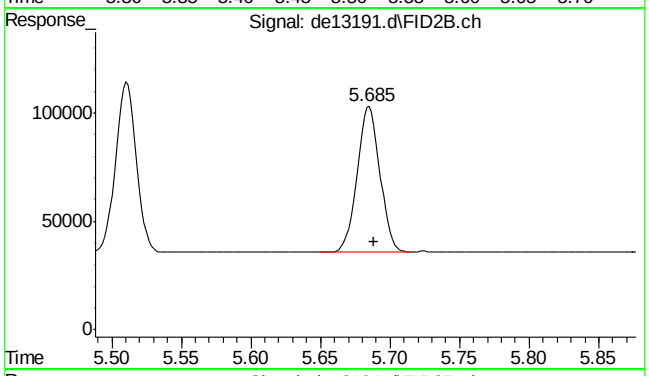
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 77300
Conc: 1.06 µg/ml m



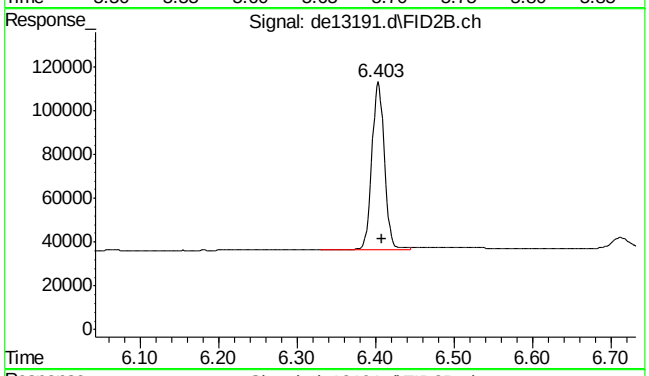
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 81982
Conc: 1.07 µg/ml



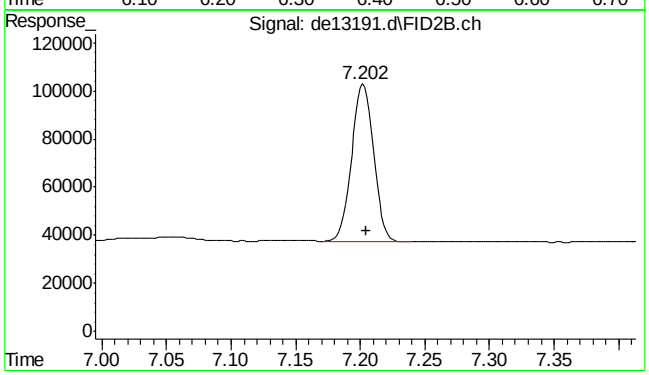
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 76748
Conc: 1.06 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 85696
Conc: 1.08 µg/ml



#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 77909
Conc: 1.08 µg/ml

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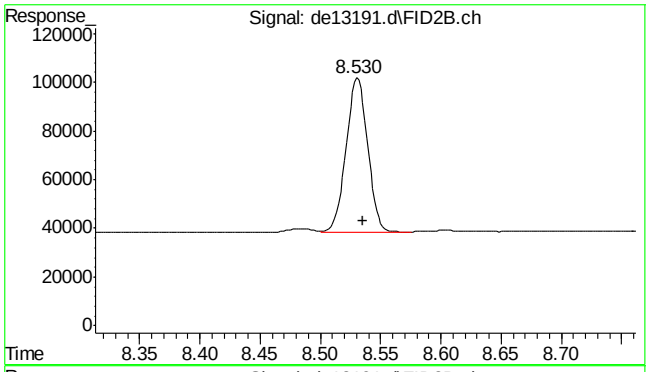
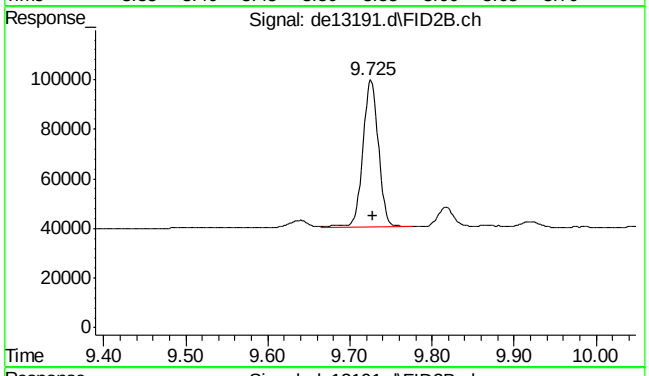


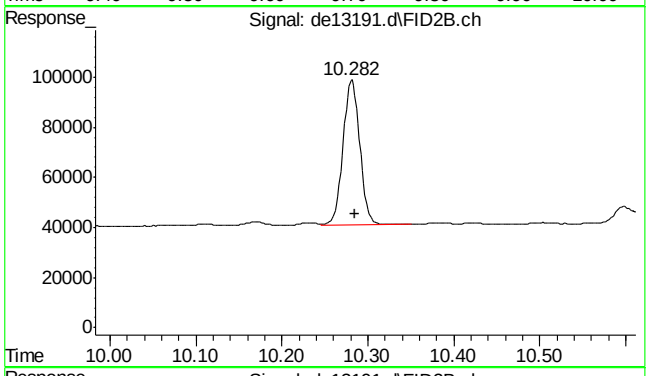
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 78733
Conc: 1.10 µg/ml



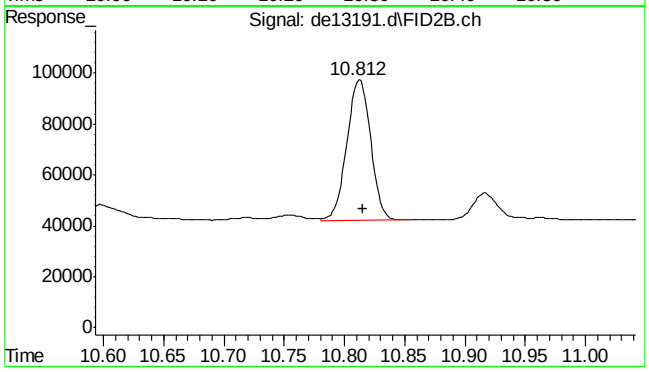
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 77956
Conc: 1.10 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 78108
Conc: 1.16 µg/ml



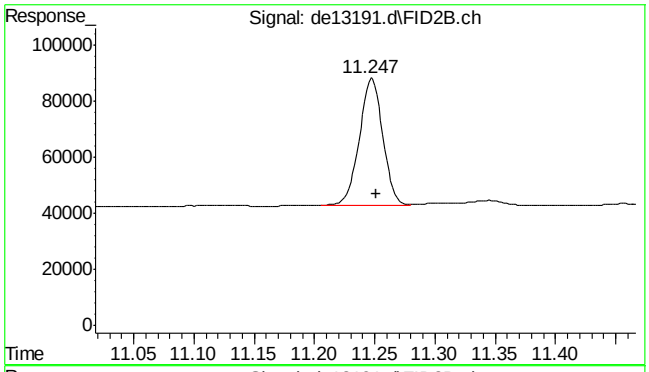
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 75638
Conc: 1.13 µg/ml

9.5.1

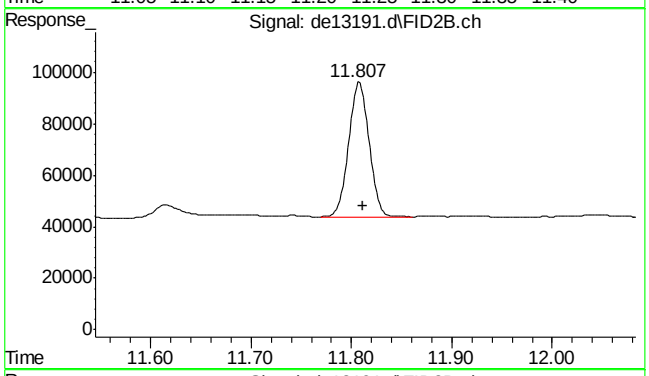
9

SGS ACCUTEST MC45816A



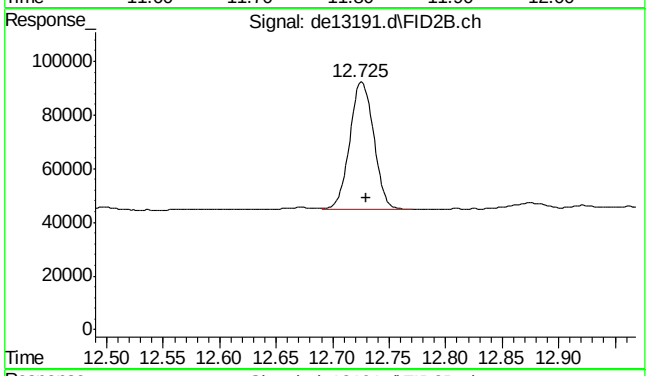
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 61176
Conc: 1.13 µg/ml



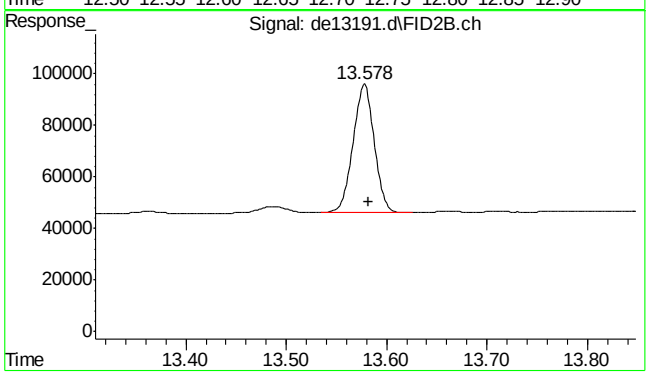
#36 c-22

R.T.: 11.807 min
Delta R.T.: -0.005 min
Response: 73192
Conc: 1.10 µg/ml



#37 c-24

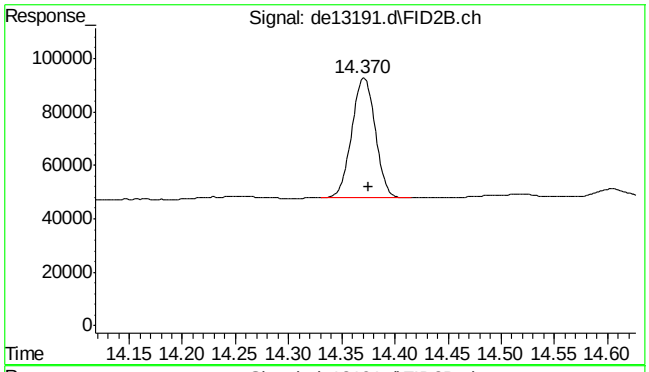
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 69851
Conc: 1.09 µg/ml



#38 c-26

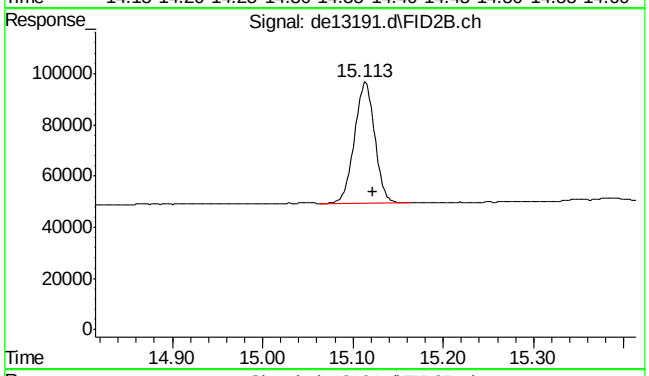
R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 72850
Conc: 1.10 µg/ml

SGS ACCUTEST MC45816A



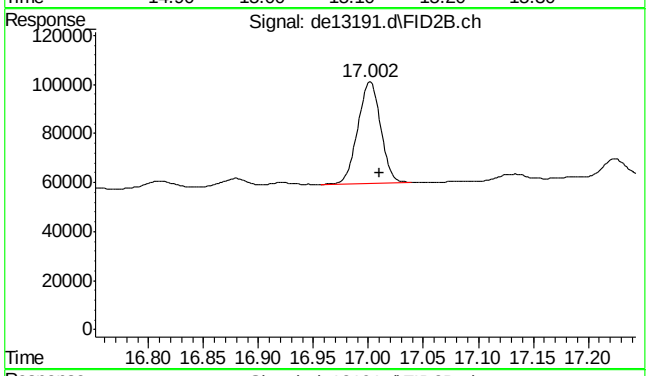
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 69399
Conc: 1.06 µg/ml



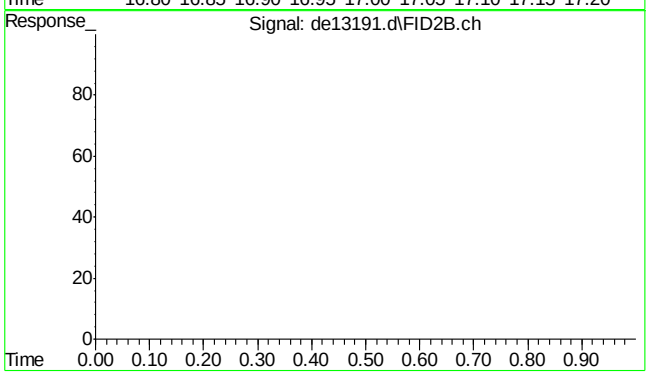
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 74594
Conc: 1.14 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 60516
Conc: 0.97 µg/ml m



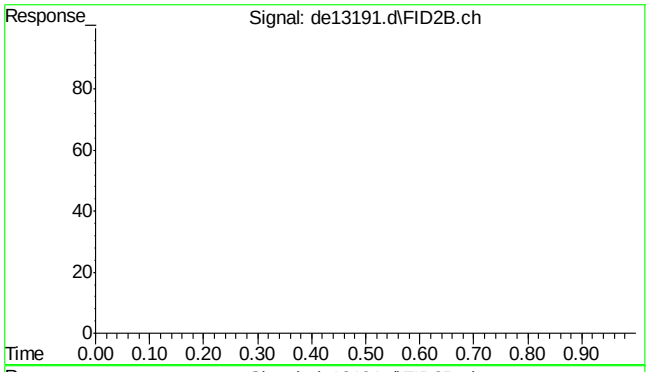
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.1

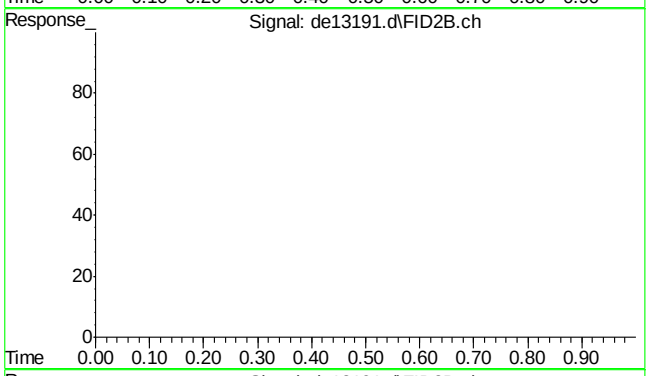
9

SGS ACCUTEST MC45816A



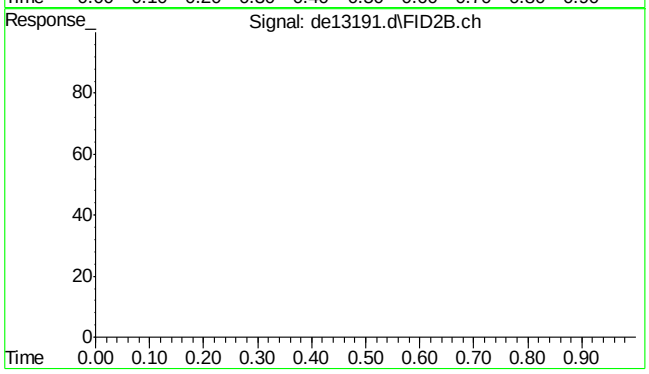
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

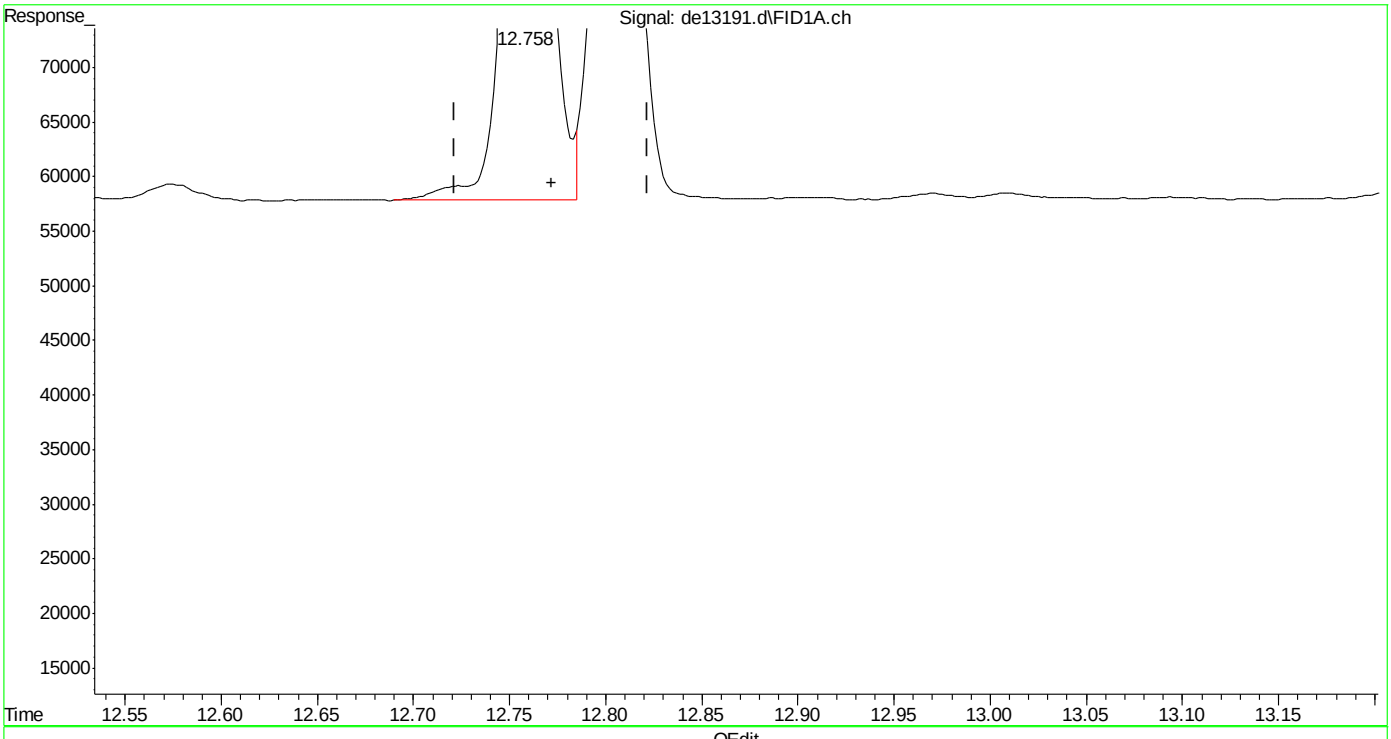
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.758min 1.044 µg/ml
response 102644

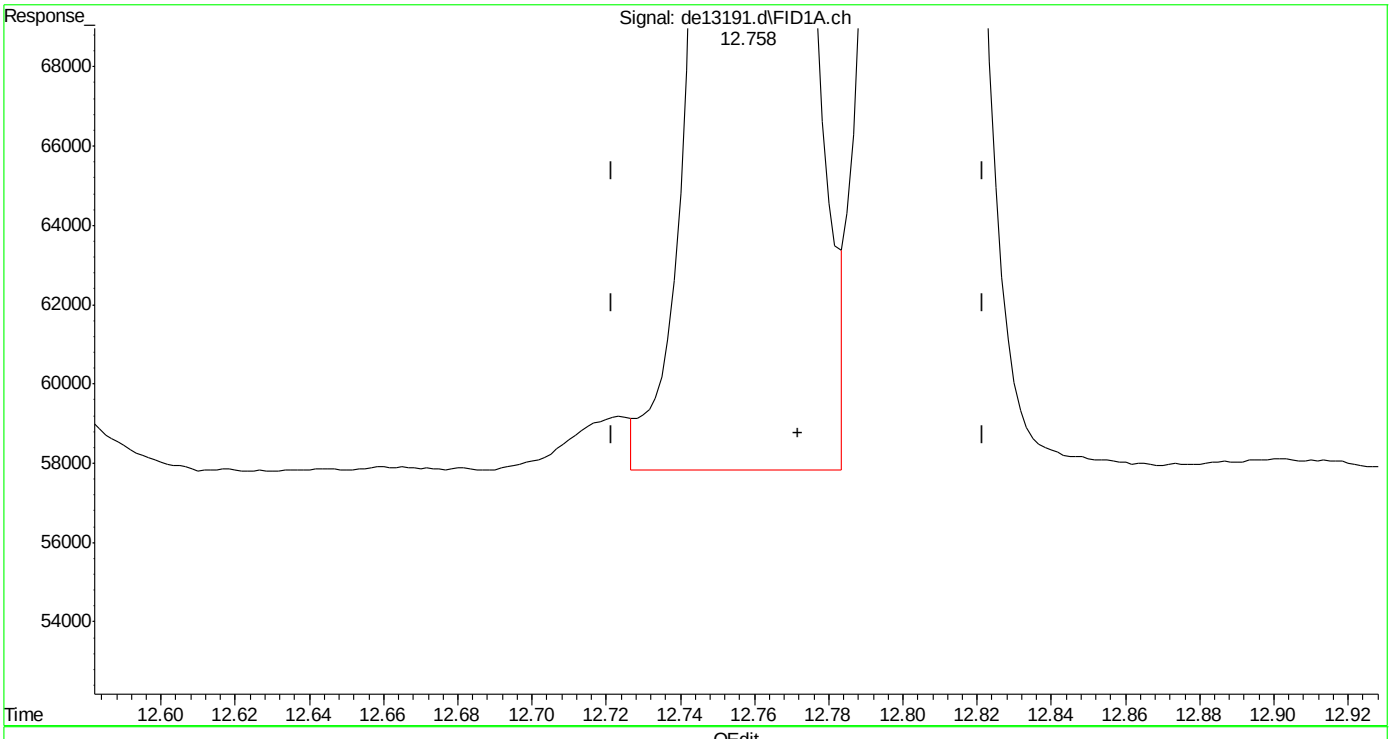
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:36:15 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.758min 1.022 µg/ml m
response 100487

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:36:33 2016

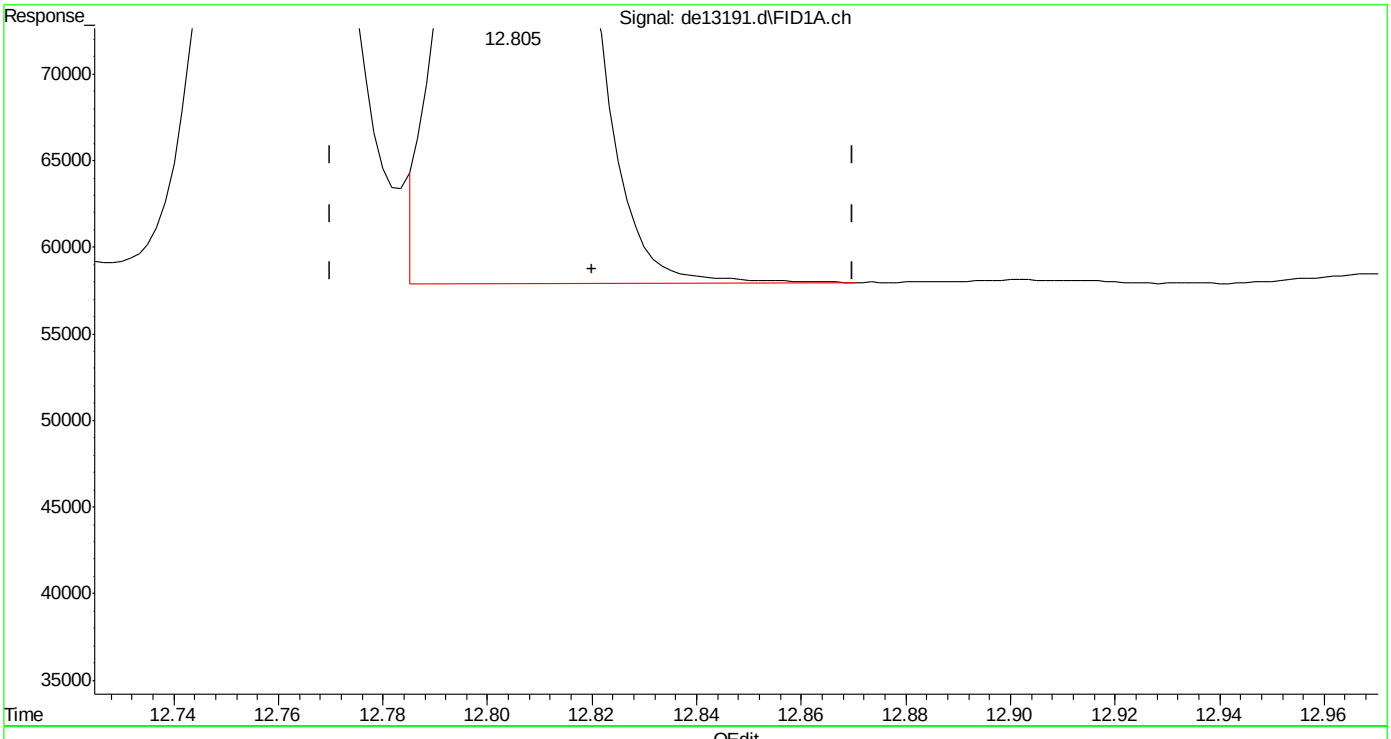
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.805min 1.000 µg/ml
response 99307

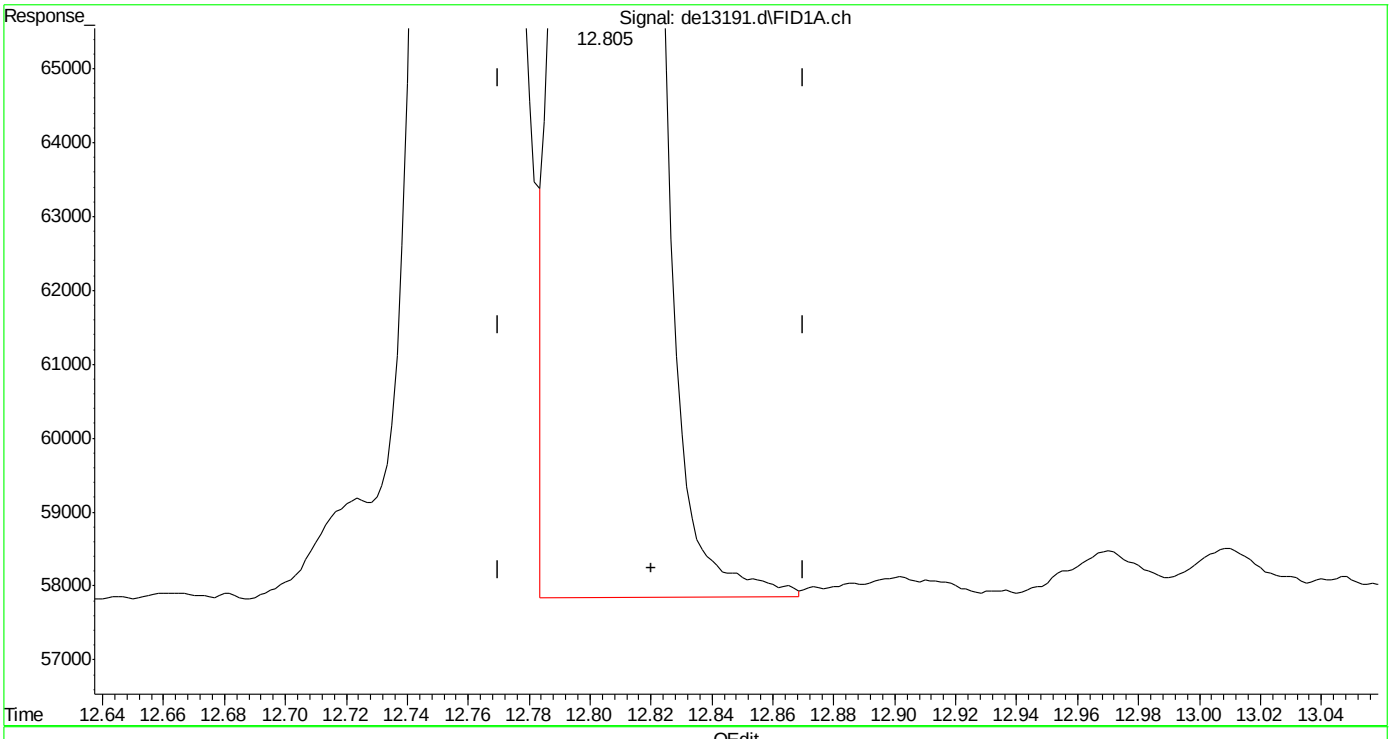
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:36:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.805min 1.010 µg/ml m
response 100279

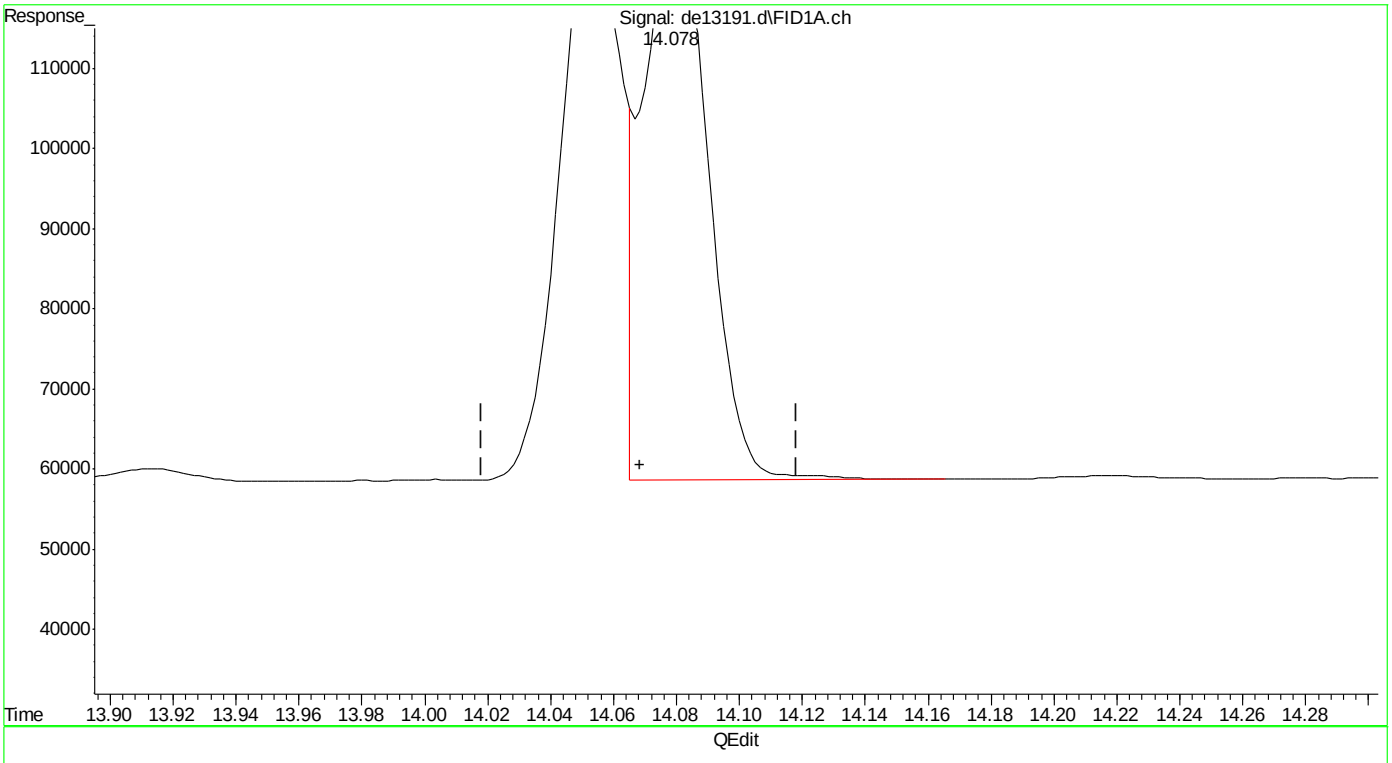
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.078min 0.983 µg/ml
response 100280

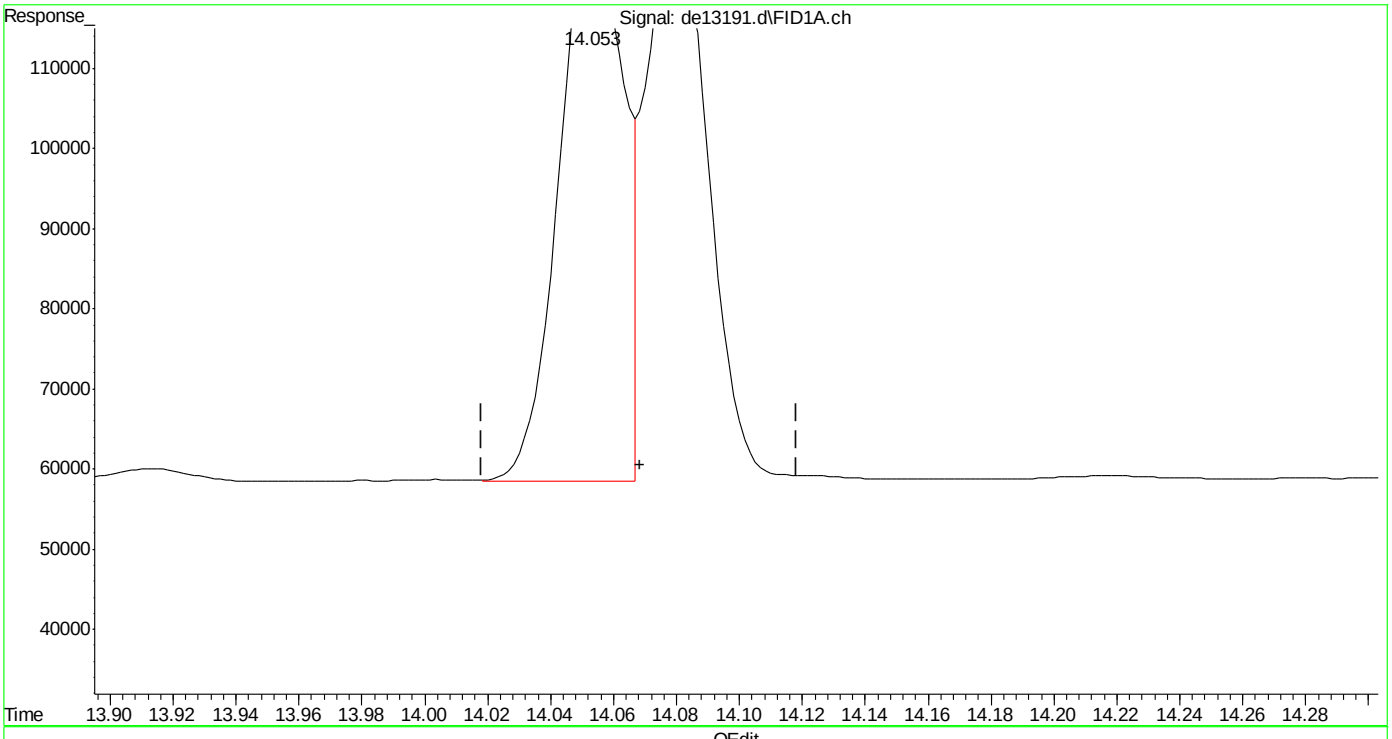
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.053min 0.988 µg/ml m
response 100827

(+) = Expected Retention Time

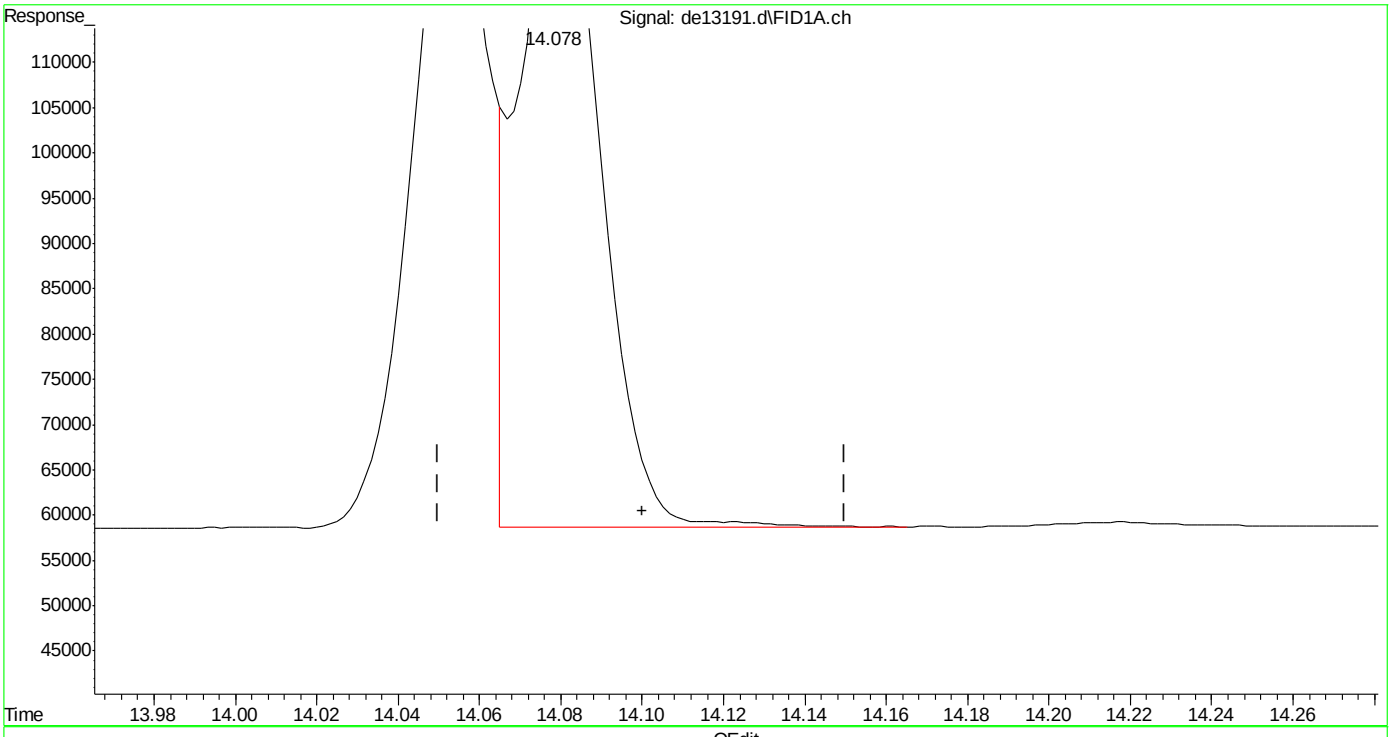
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.078min 1.024 µg/ml
response 100280

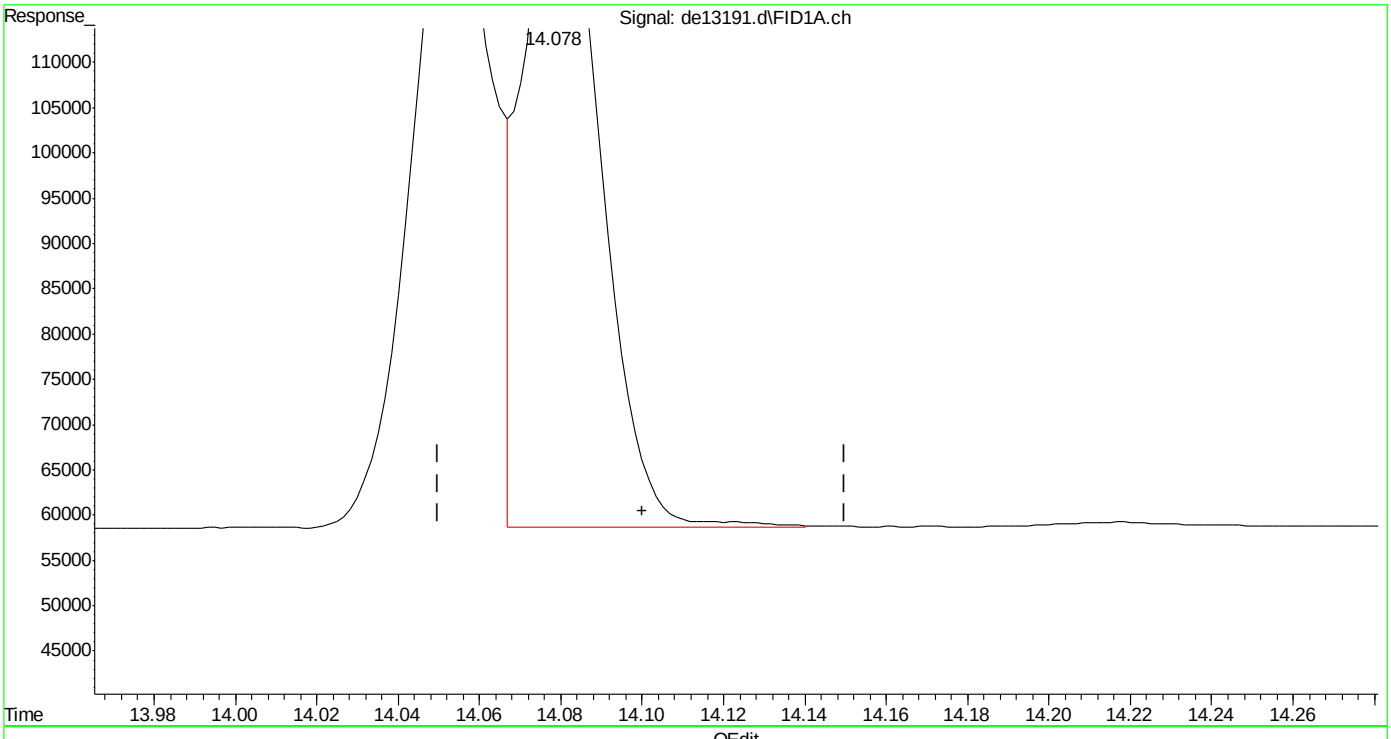
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.078min 0.978 µg/ml m
response 95833

(+) = Expected Retention Time

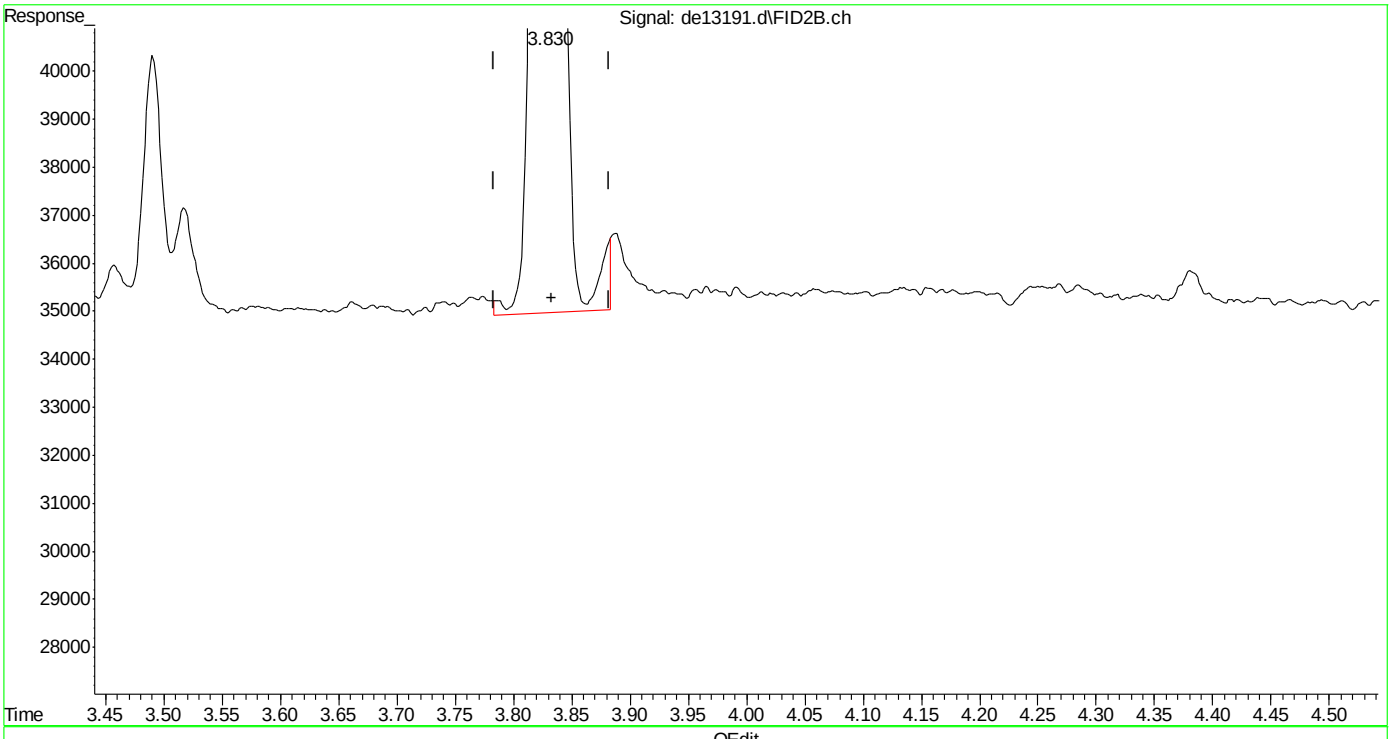
EPH160204M.M Fri Feb 05 10:37:39 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.833min 1.080 µg/ml
response 78399

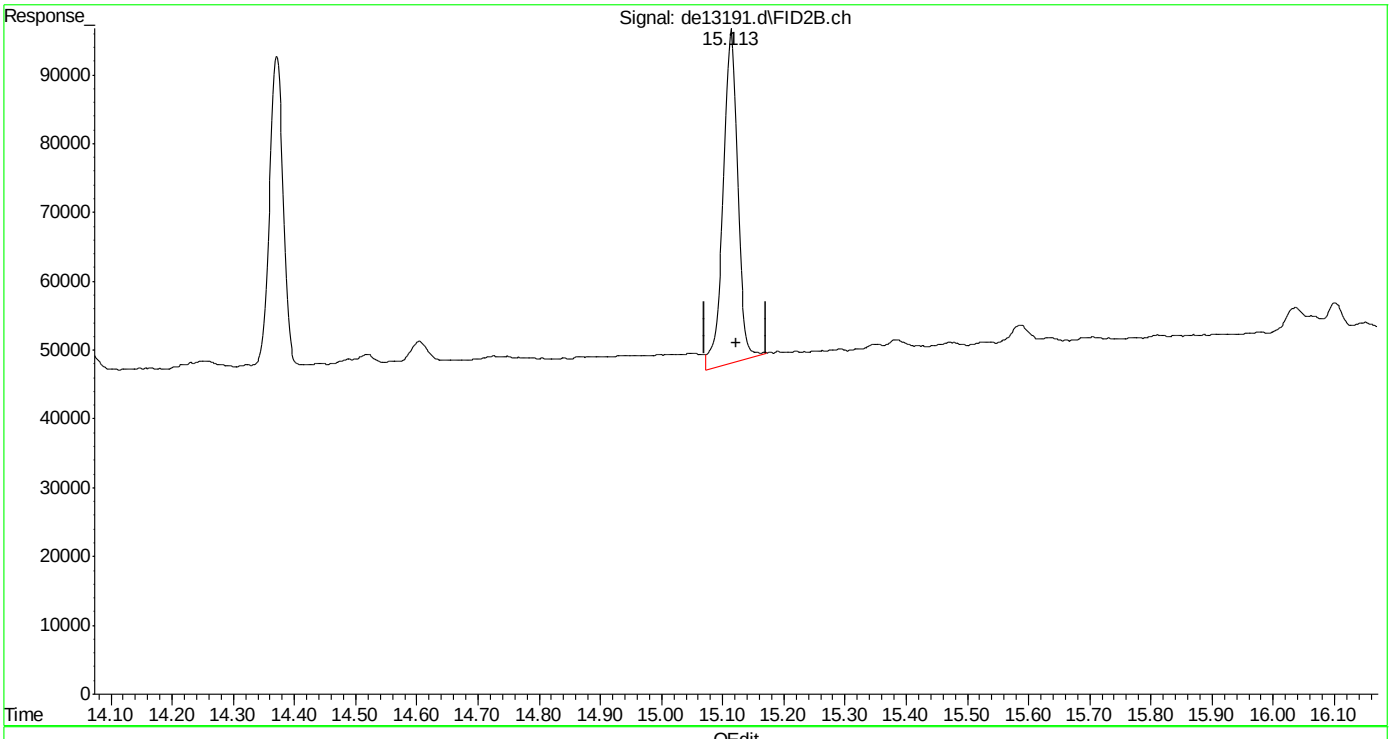
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 1.239 µg/ml
response 80783

(+) = Expected Retention Time

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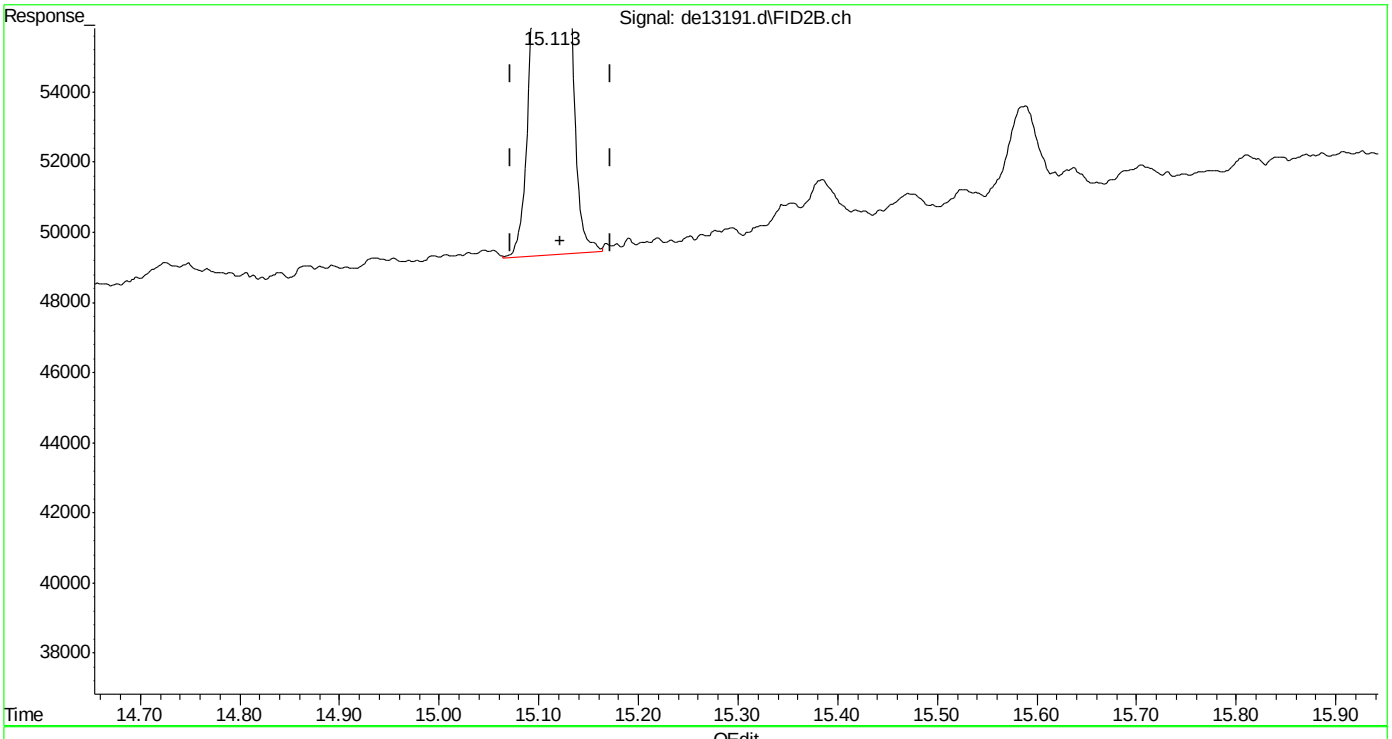
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 1.144 µg/ml m
response 74594

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	184769	1.881 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.40%		
6) s 2-bromonaphthalene	7.532	125964	1.890 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.45%		
11) s o-terphenyl	10.077	208029	1.952 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.76%		
35) s 1-chlorooctadecane	11.247	119513	2.175 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 10.87%		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3994043	2.778 µg/mlm
2) naphthalene	5.352	205575	1.860 µg/ml
3) 2-methylnaphthalene	6.248	205018	1.875 µg/ml
5) acenaphthylene	7.365	202426	1.881 µg/ml
7) acenaphthene	7.607	207471	1.893 µg/ml
8) fluorene	8.252	204542	1.903 µg/ml
9) phenanthrene	9.433	207031	1.943 µg/ml
10) anthracene	9.492	199105	2.019 µg/ml
12) fluoranthene	10.940	203479	1.960 µg/ml
13) pyrene	11.198	206224	1.967 µg/ml
14) benzo(a)anthracene	12.760	197822	2.010 µg/mlm
15) chrysene	12.807	197927	1.992 µg/mlm
16) benzo(B)fluoranthene	14.053	197572	1.943 µg/mlm
17) benzo(k)fluoranthene	14.082	193855	1.989 µg/mlm
18) benzo(a)pyrene	14.387	184685	1.912 µg/ml
19) indeno(1,2,3-cd)pyrene	15.523	186820	1.909 µg/ml
20) dibenzo(ah)anthracene	15.568	185980	1.983 µg/ml
21) benzo(ghi)perylene	15.742f	184915	1.960 µg/ml
25) h c-9	2.680	157422	2.139 µg/mlm
26) h c-10	3.833	158649	2.139 µg/mlm
27) naphthalene #2	5.510	169071	2.176 µg/ml
28) c-12	5.685	157764	2.137 µg/ml
29) 2-methylnaphthalene #2	6.403	172009	2.148 µg/ml
30) c-14	7.202	157636	2.130 µg/ml
31) c-16	8.530	156773	2.123 µg/ml
32) c-18	9.725	154646	2.108 µg/ml
33) c-19	10.282	151034	2.126 µg/ml
34) c-20	10.812	148378	2.126 µg/ml
36) c-22	11.808	146070	2.124 µg/ml
37) c-24	12.725	135579	2.049 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
38)		c-26	13.577	142920	2.087 µg/ml
39)		c-28	14.370	137233	2.060 µg/ml
40)	h	c-30	15.122	139197	2.037 µg/mlm
41)	h	c-36	17.010	119416	1.930 µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

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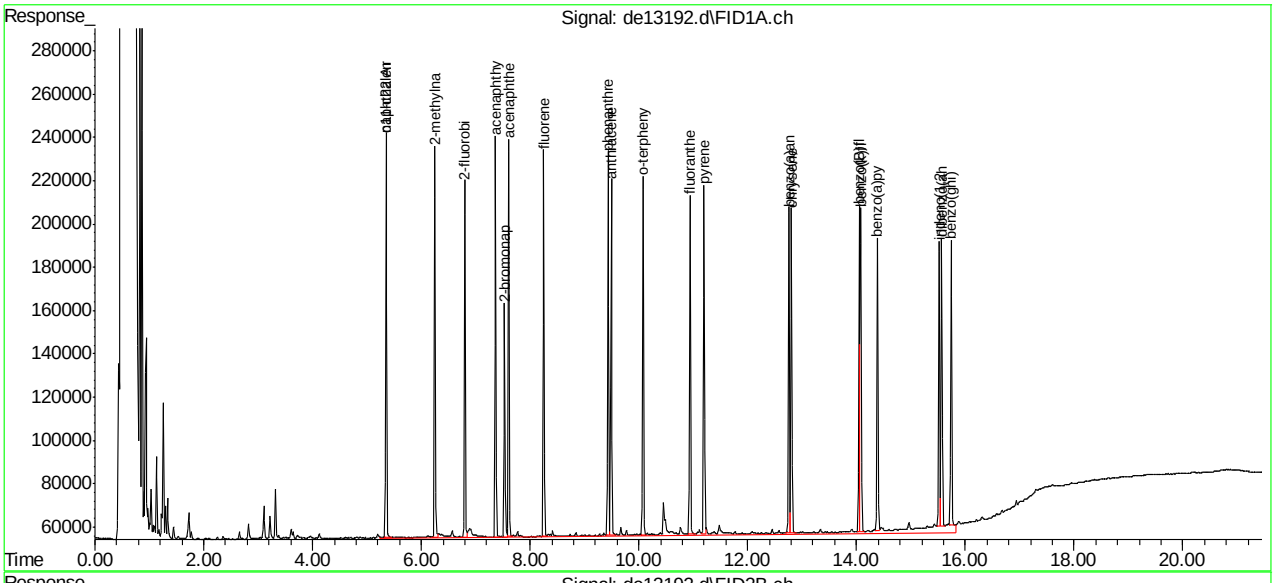
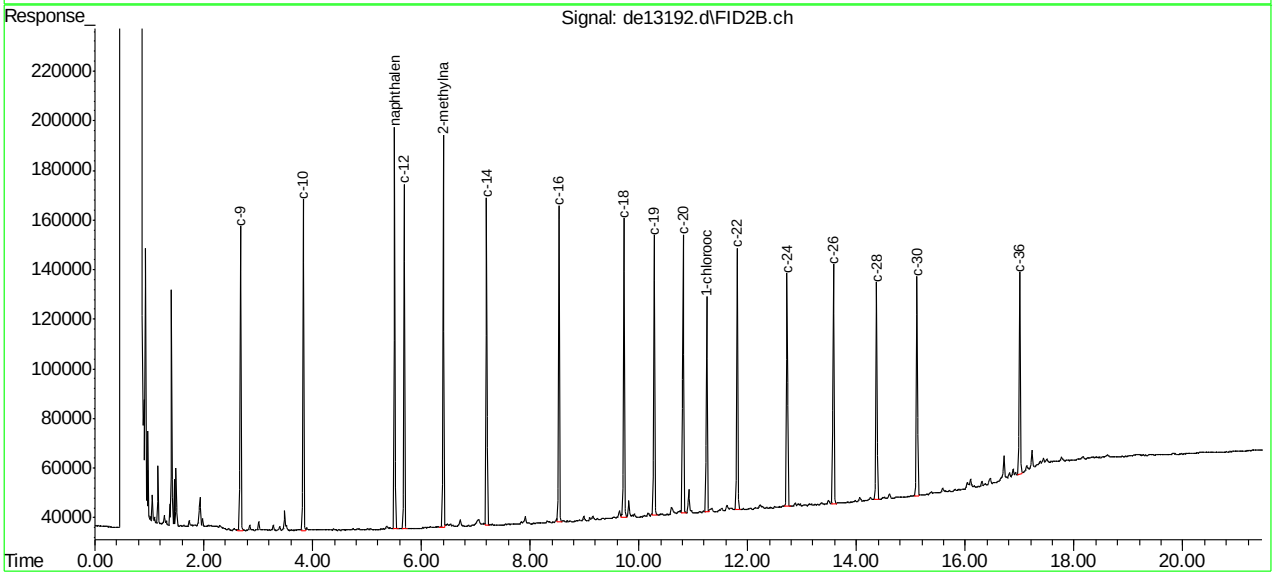
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

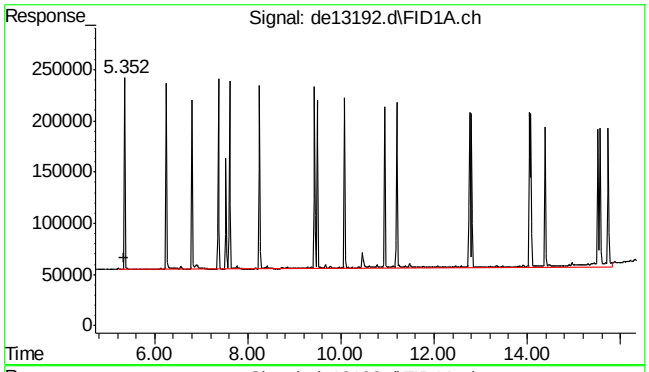
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



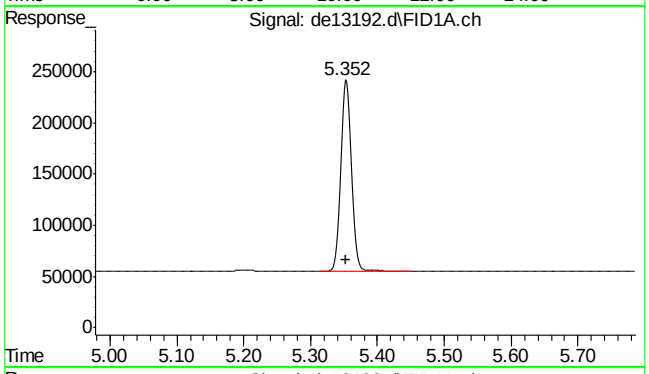


SGS ACCUTEST MC45816A



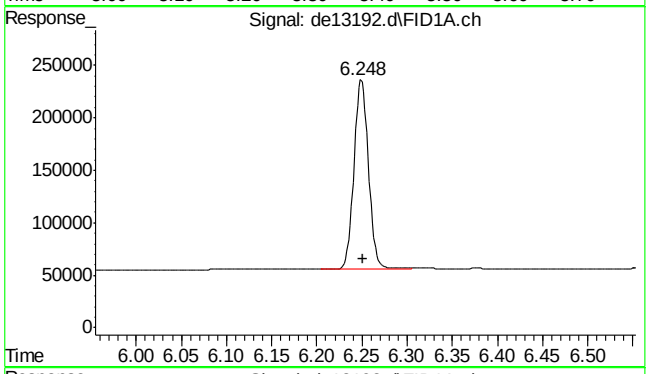
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3994043
Conc: 2.78 µg/ml m



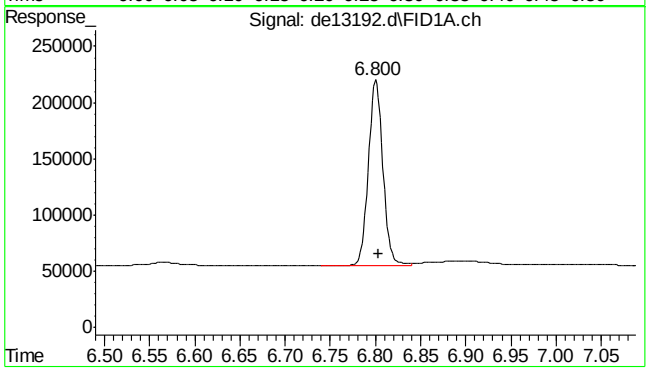
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 205575
Conc: 1.86 µg/ml



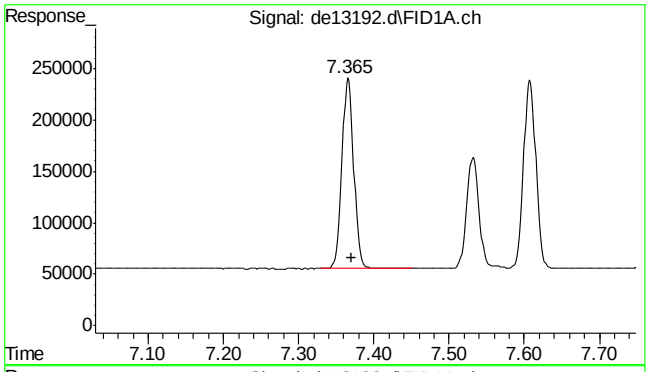
#3 2-methylnaphthalene

R.T.: 6.248 min
Delta R.T.: -0.003 min
Response: 205018
Conc: 1.88 µg/ml



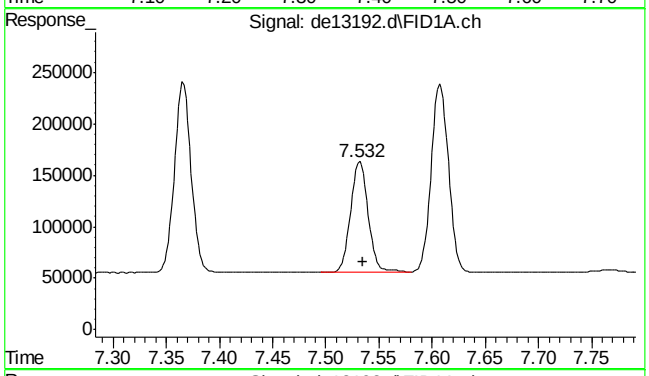
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 184769
Conc: 1.88 µg/ml



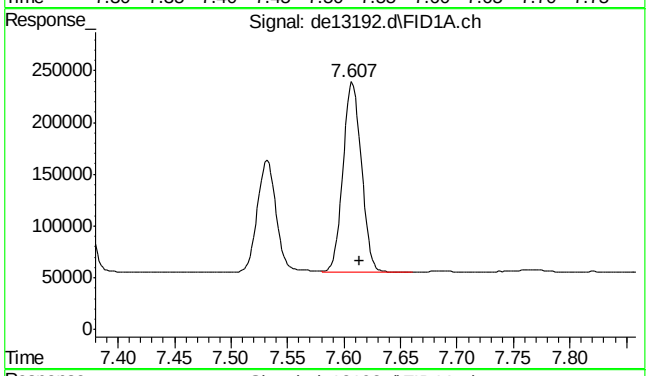
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 202426
Conc: 1.88 µg/ml



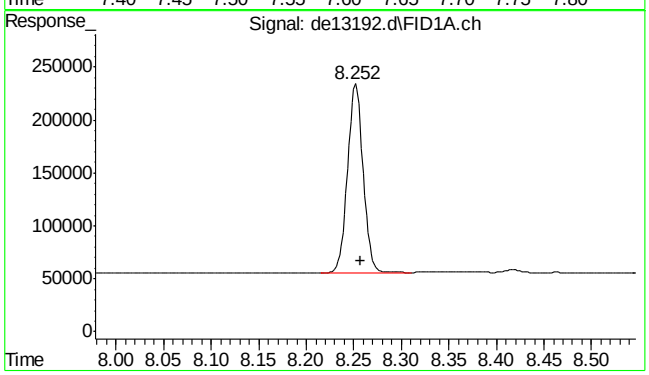
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 125964
Conc: 1.89 µg/ml



#7 acenaphthene

R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 207471
Conc: 1.89 µg/ml



#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 204542
Conc: 1.90 µg/ml

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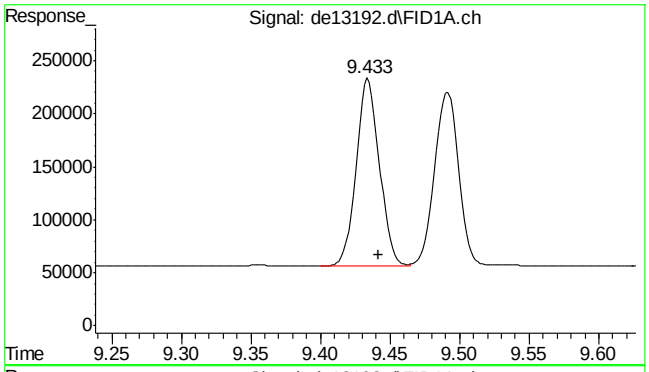
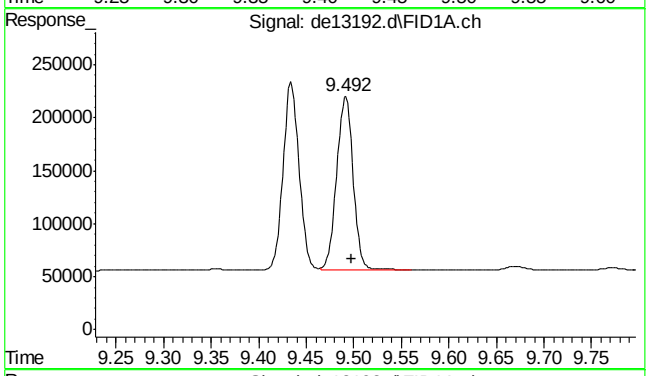


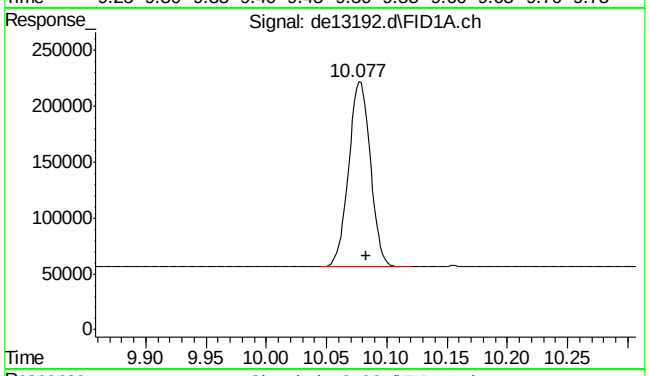
#9 phenanthrene

R.T.: 9.433 min
Delta R.T.: -0.008 min
Response: 207031
Conc: 1.94 µg/ml



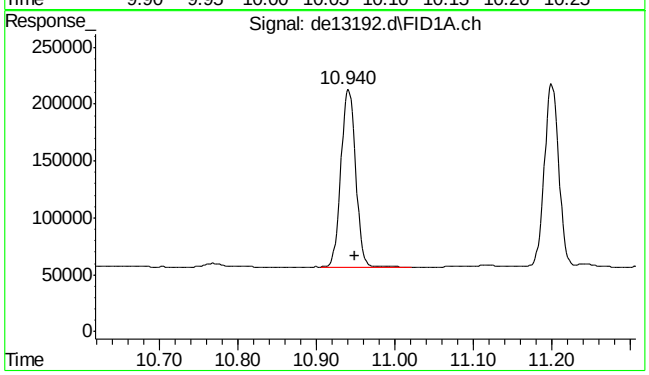
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 199105
Conc: 2.02 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 208029
Conc: 1.95 µg/ml



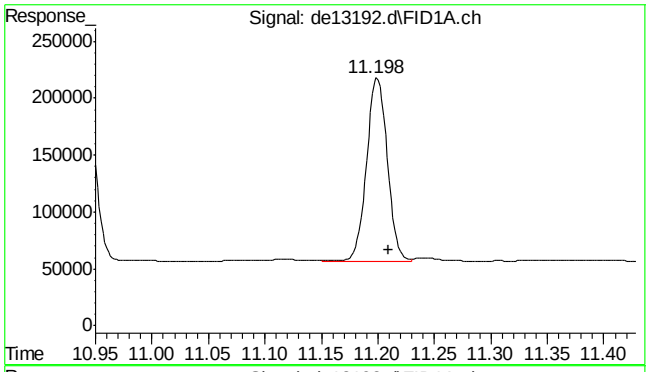
#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 203479
Conc: 1.96 µg/ml

9.5.2

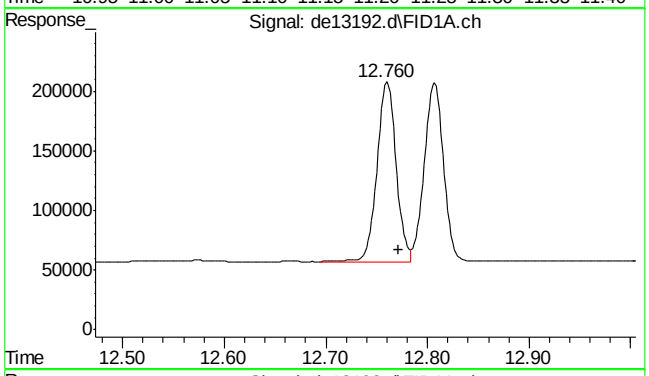
9

SGS ACCUTEST MC45816A



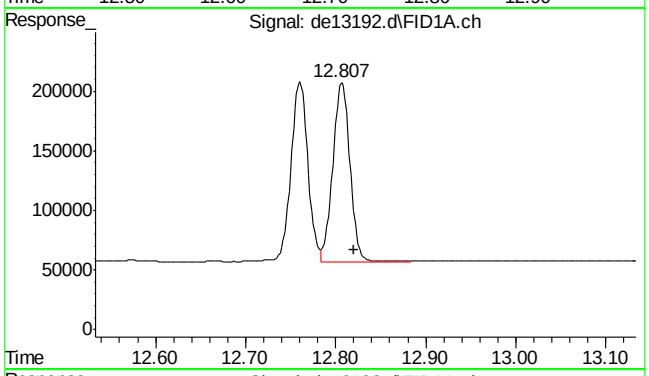
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 206224
Conc: 1.97 µg/ml



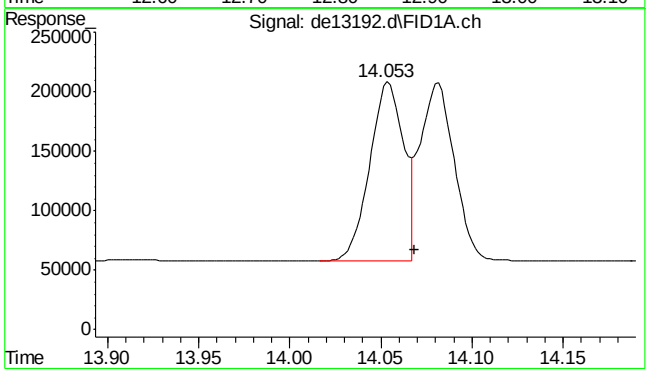
#14 benzo(a)anthracene

R.T.: 12.760 min
Delta R.T.: -0.012 min
Response: 197822
Conc: 2.01 µg/ml m



#15 chrysene

R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 197927
Conc: 1.99 µg/ml m



#16 benzo(B)fluoranthene

R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 197572
Conc: 1.94 µg/ml m

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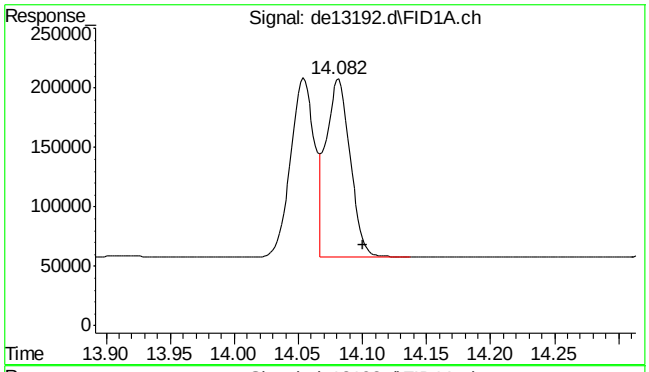
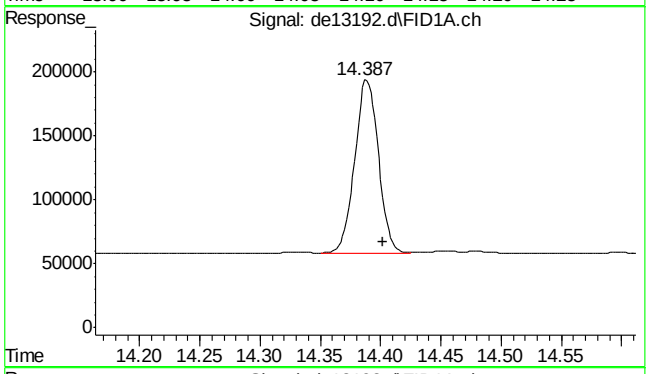


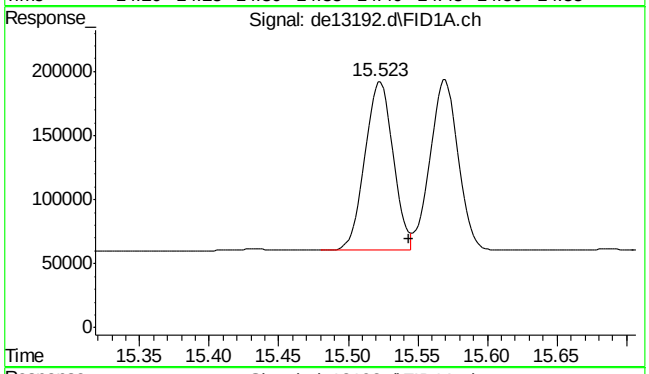
#17 benzo(k)fluoranthene

R.T.: 14.082 min
Delta R.T.: -0.018 min
Response: 193855
Conc: 1.99 µg/ml m



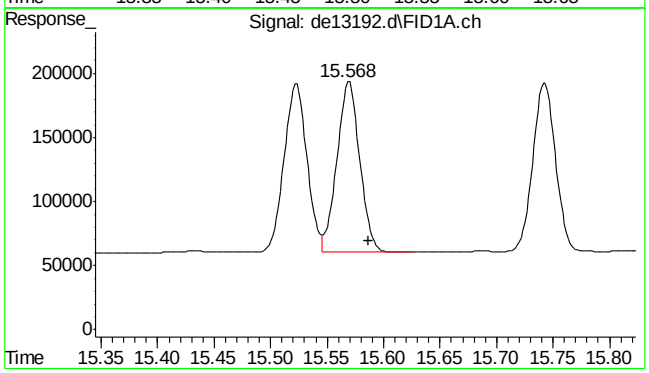
#18 benzo(a)pyrene

R.T.: 14.387 min
Delta R.T.: -0.015 min
Response: 184685
Conc: 1.91 µg/ml



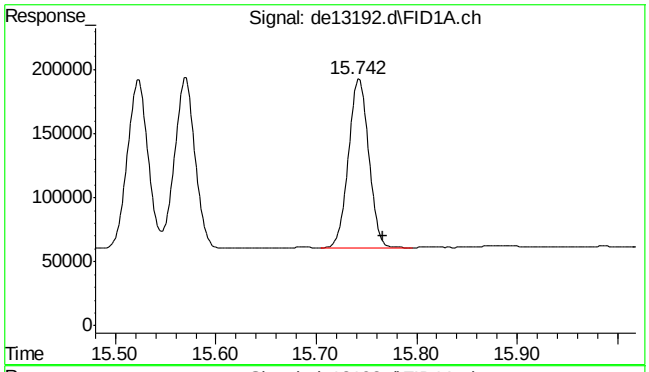
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.523 min
Delta R.T.: -0.020 min
Response: 186820
Conc: 1.91 µg/ml



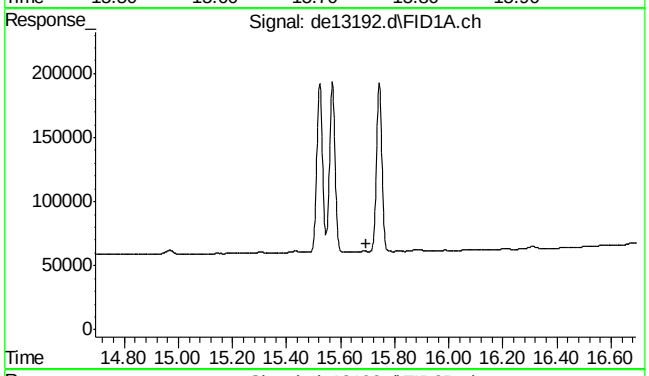
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 185980
Conc: 1.98 µg/ml



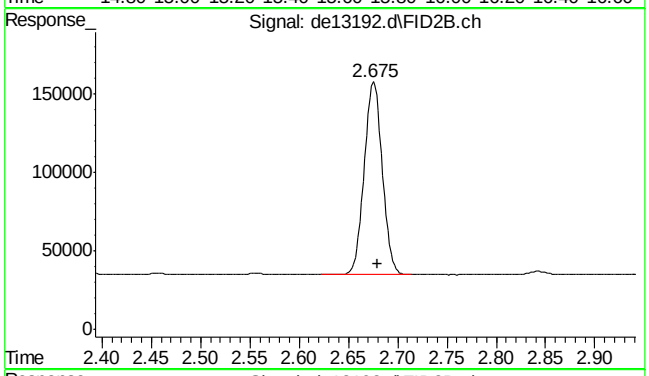
#21 benzo(ghi)perylene

R.T.: 15.742 min
Delta R.T.: -0.025 min
Response: 184915
Conc: 1.96 µg/ml



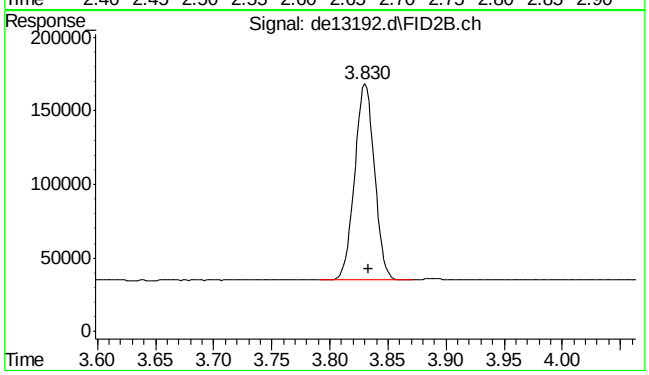
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



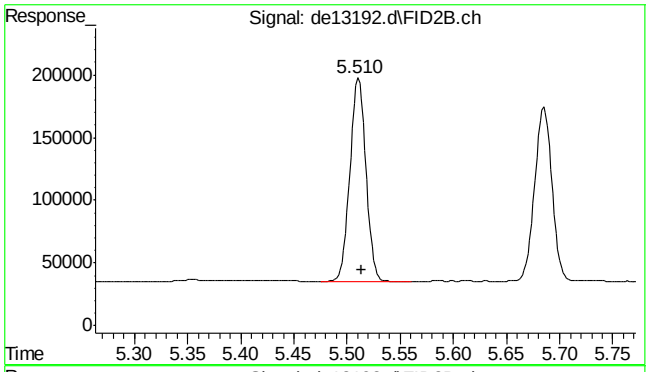
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 157422
Conc: 2.14 µg/ml m



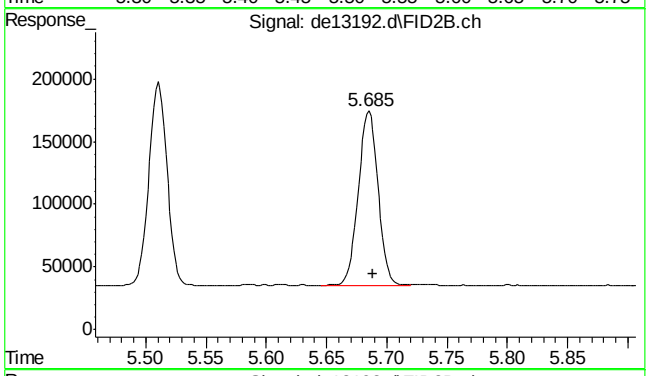
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 158649
Conc: 2.14 µg/ml m



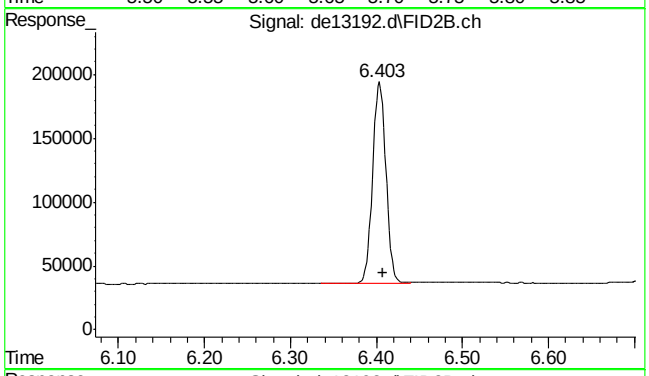
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 169071
Conc: 2.18 µg/ml



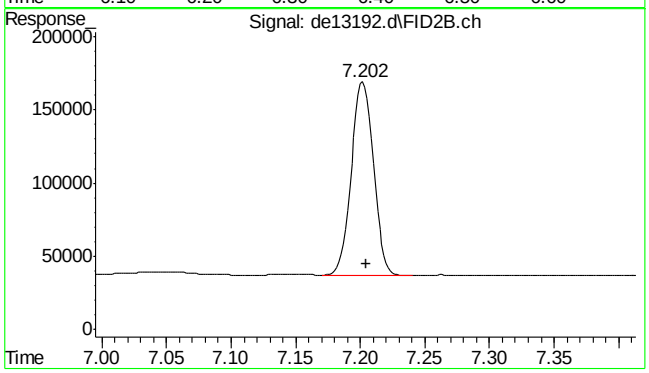
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 157764
Conc: 2.14 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 172009
Conc: 2.15 µg/ml



#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 157636
Conc: 2.13 µg/ml

9.5.2

9

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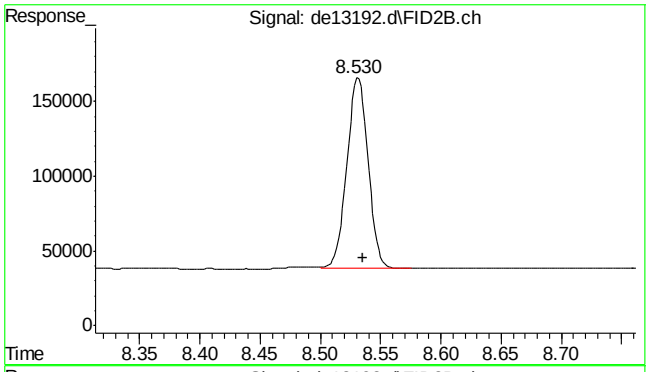
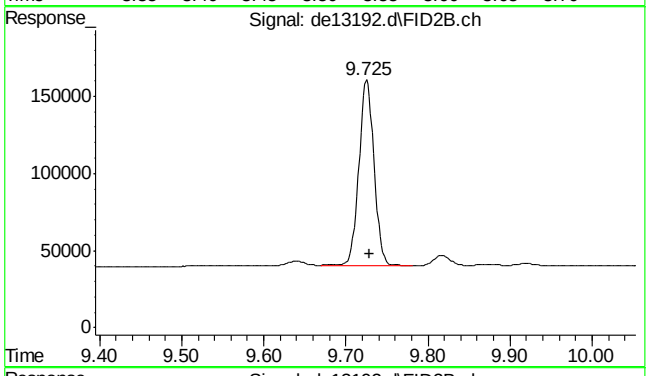


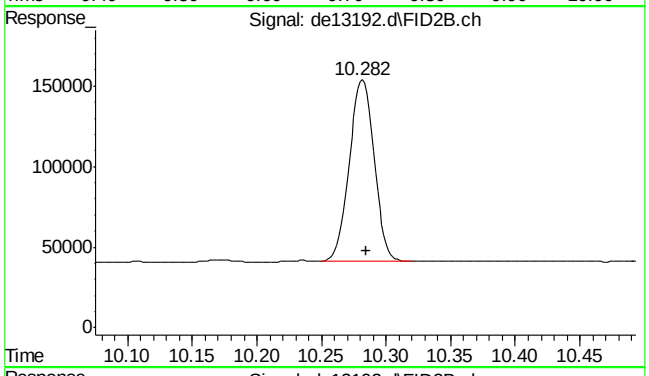
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 156773
Conc: 2.12 µg/ml



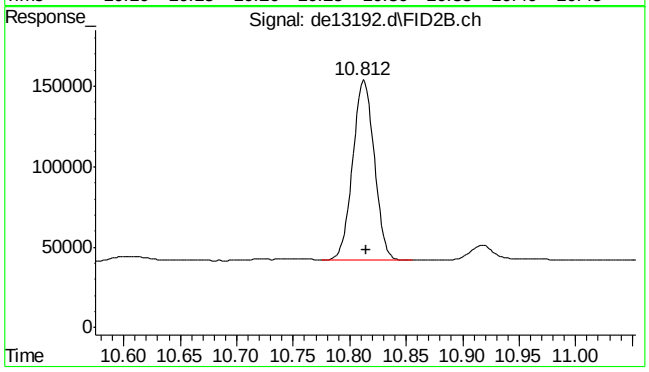
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 154646
Conc: 2.11 µg/ml



#33 c-19

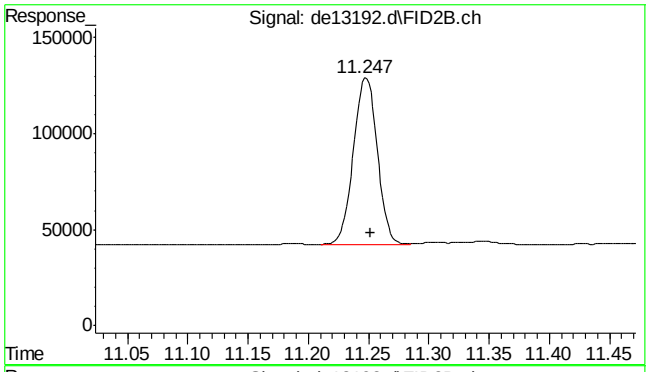
R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 151034
Conc: 2.13 µg/ml



#34 c-20

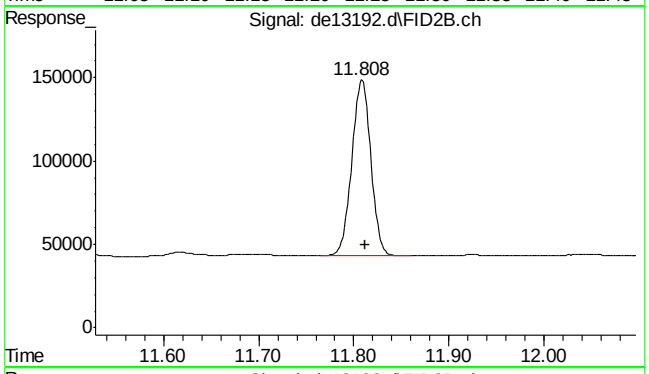
R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 148378
Conc: 2.13 µg/ml

SGS ACCUTEST MC45816A



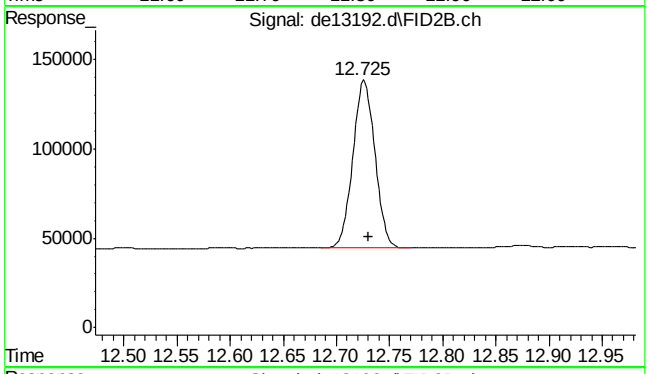
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 119513
Conc: 2.17 µg/ml



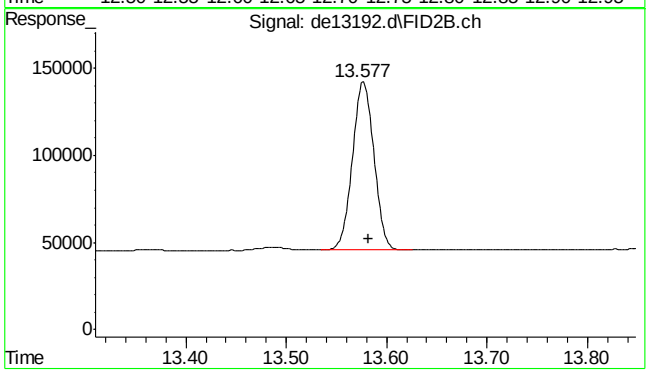
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 146070
Conc: 2.12 µg/ml



#37 c-24

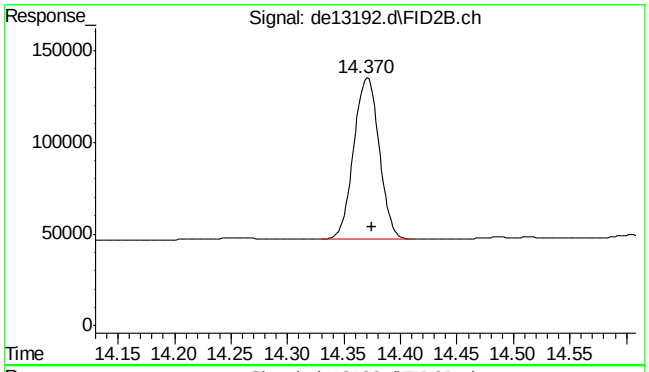
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 135579
Conc: 2.05 µg/ml



#38 c-26

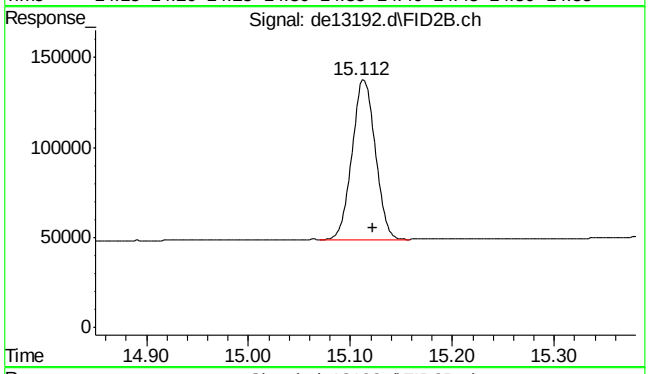
R.T.: 13.577 min
Delta R.T.: -0.005 min
Response: 142920
Conc: 2.09 µg/ml

SGS ACCUTEST MC45816A



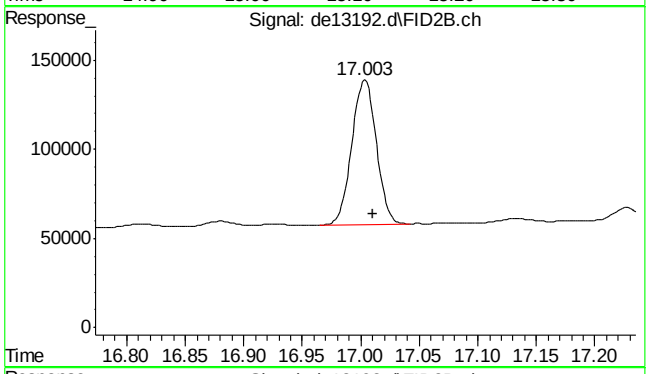
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 137233
Conc: 2.06 µg/ml



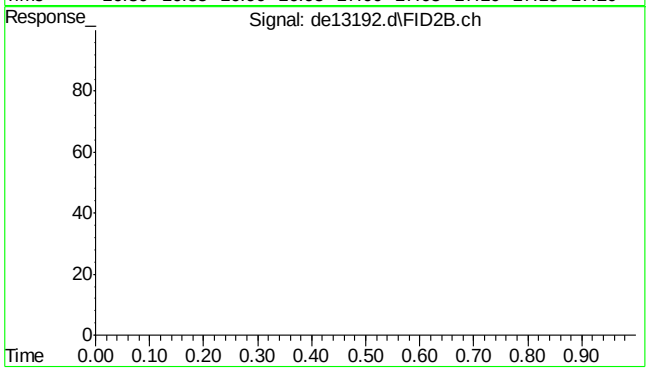
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 139197
Conc: 2.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 119416
Conc: 1.93 µg/ml m



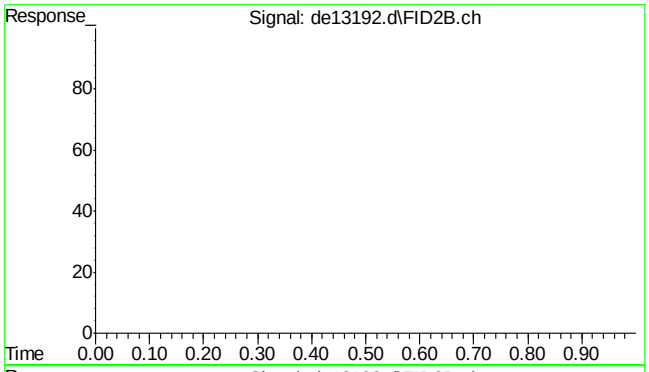
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.2

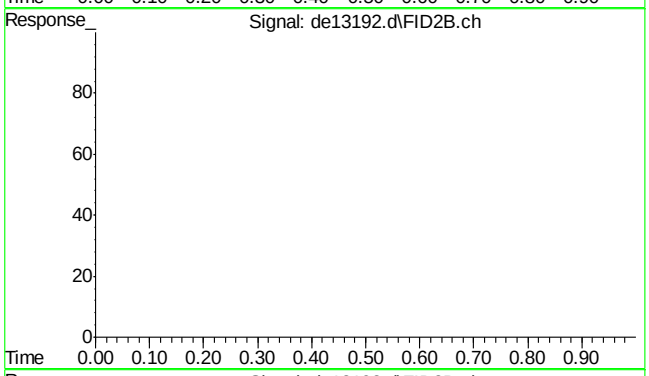
9

SGS ACCUTEST MC45816A



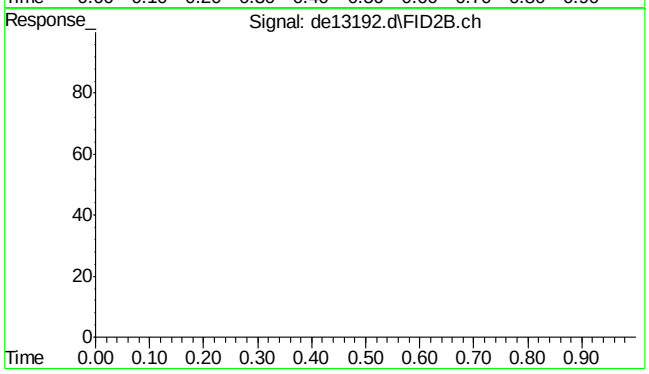
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

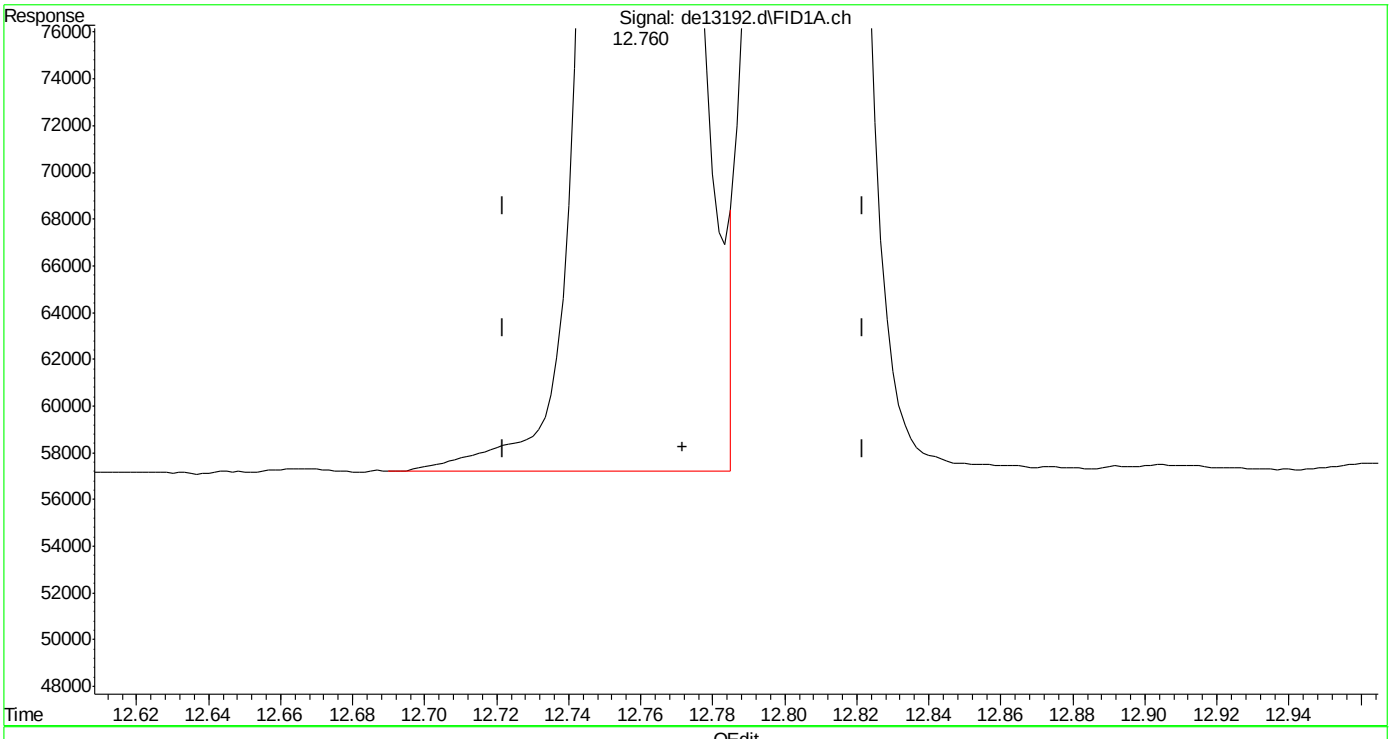
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.760min 2.018 µg/ml
response 198598

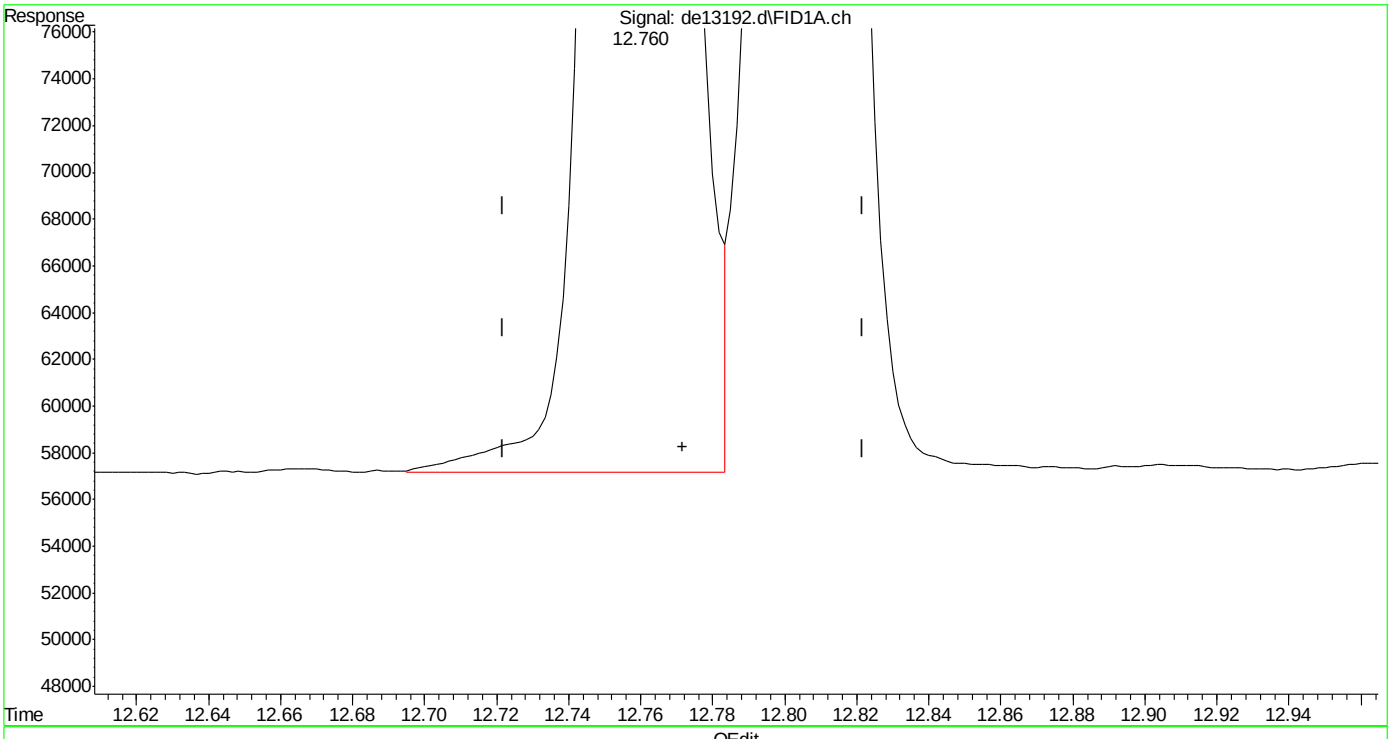
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.760min 2.010 µg/ml m
response 197822

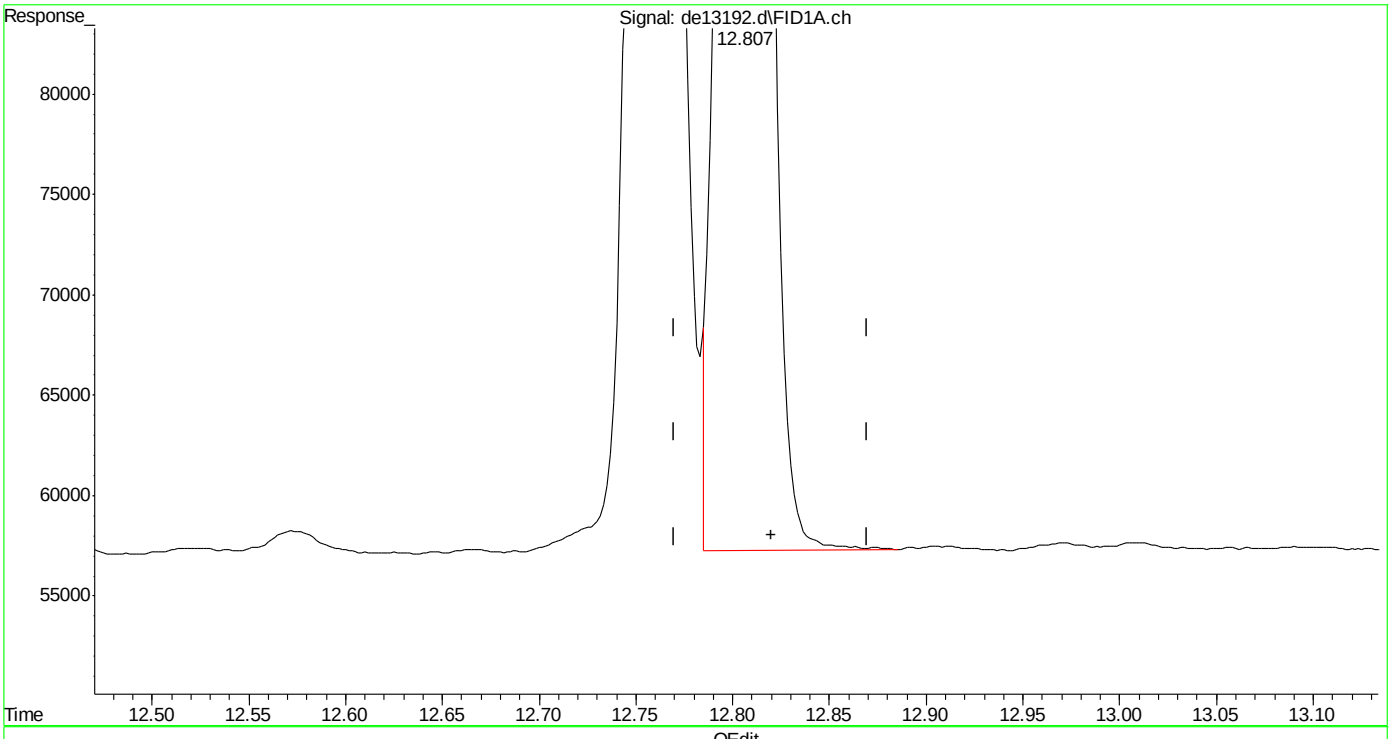
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.807min 1.977 µg/ml
response 196356

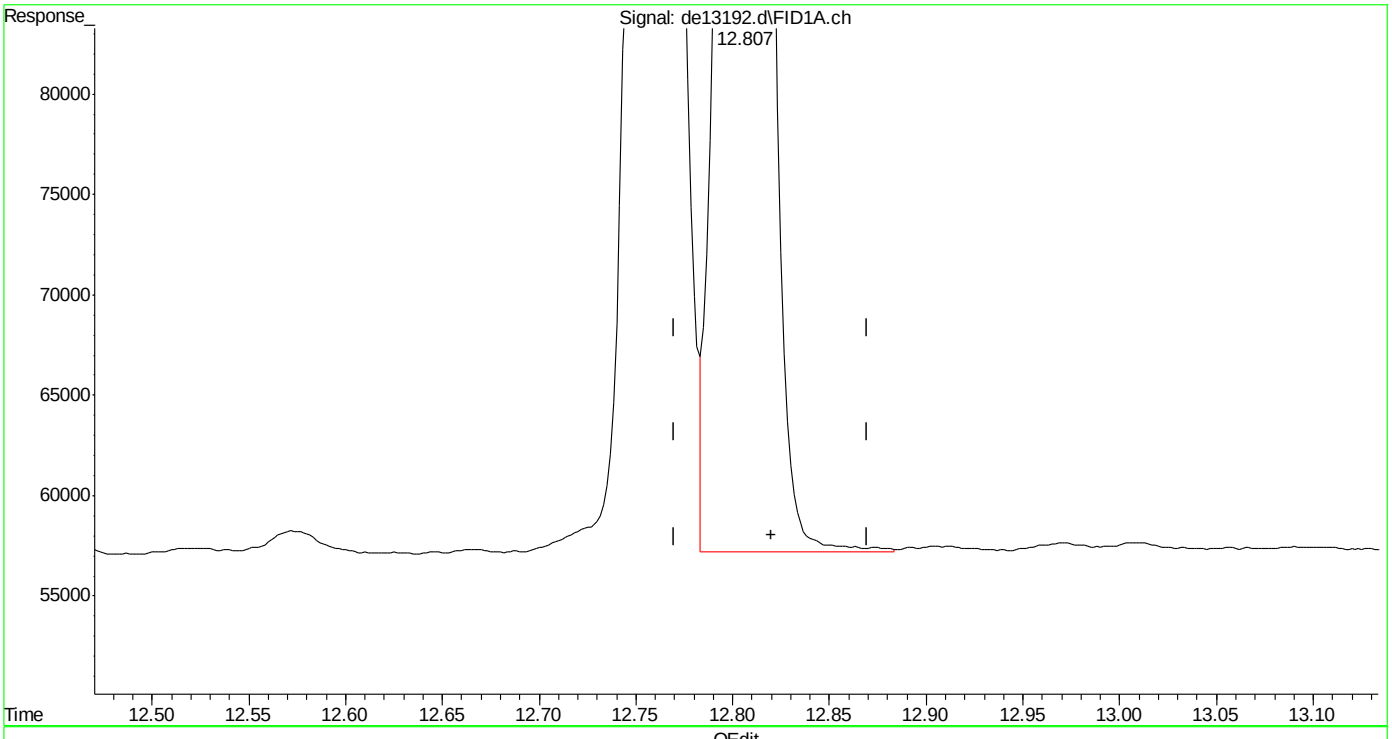
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.807min 1.992 µg/ml m
response 197927

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:40:19 2016

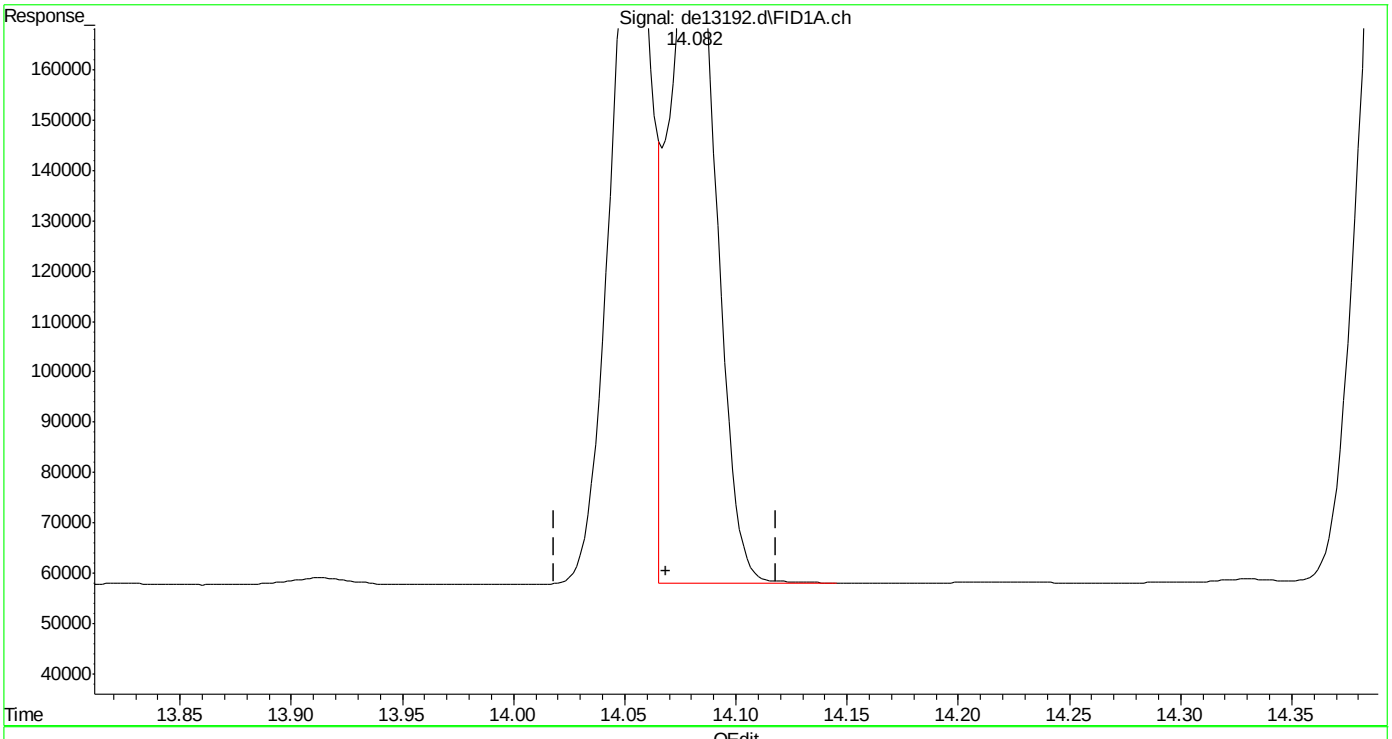
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.082min 1.990 µg/ml
response 202408

(+) = Expected Retention Time

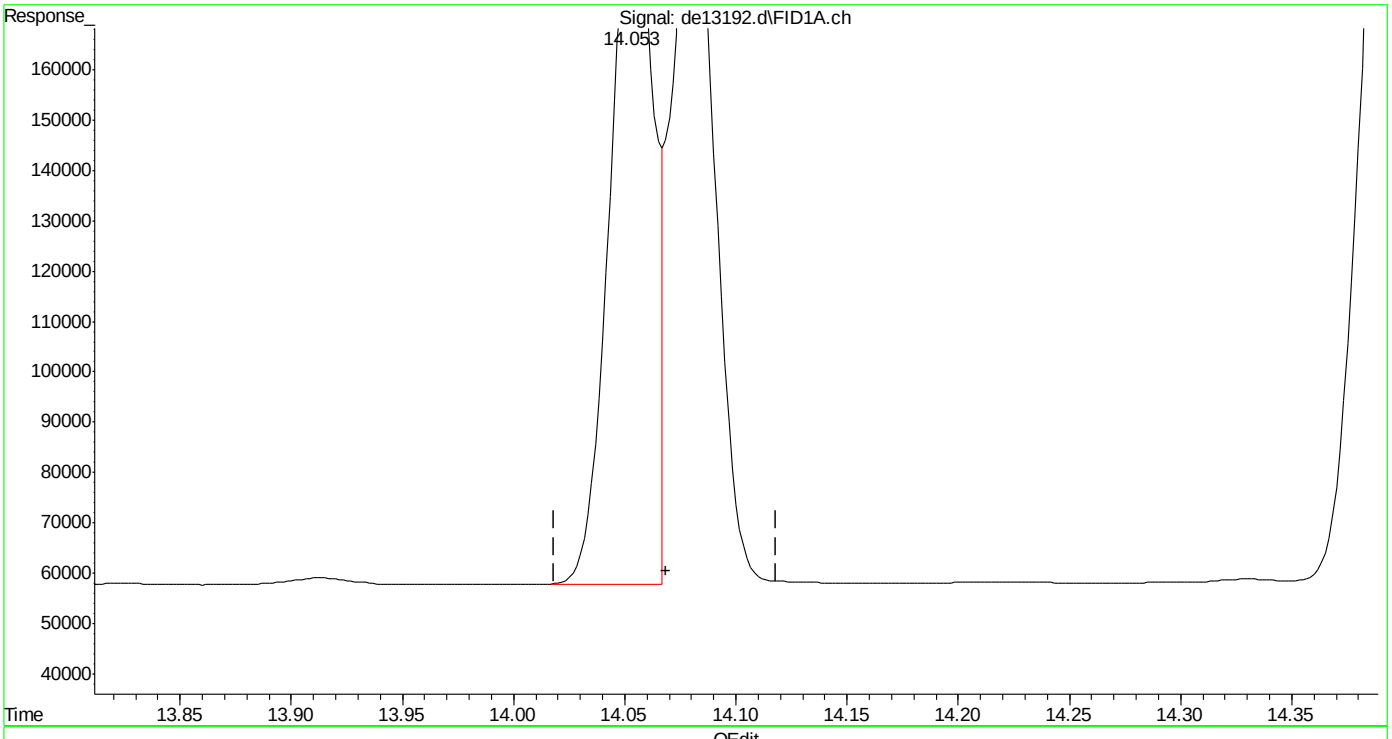
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.053min 1.943 µg/ml m
response 197572

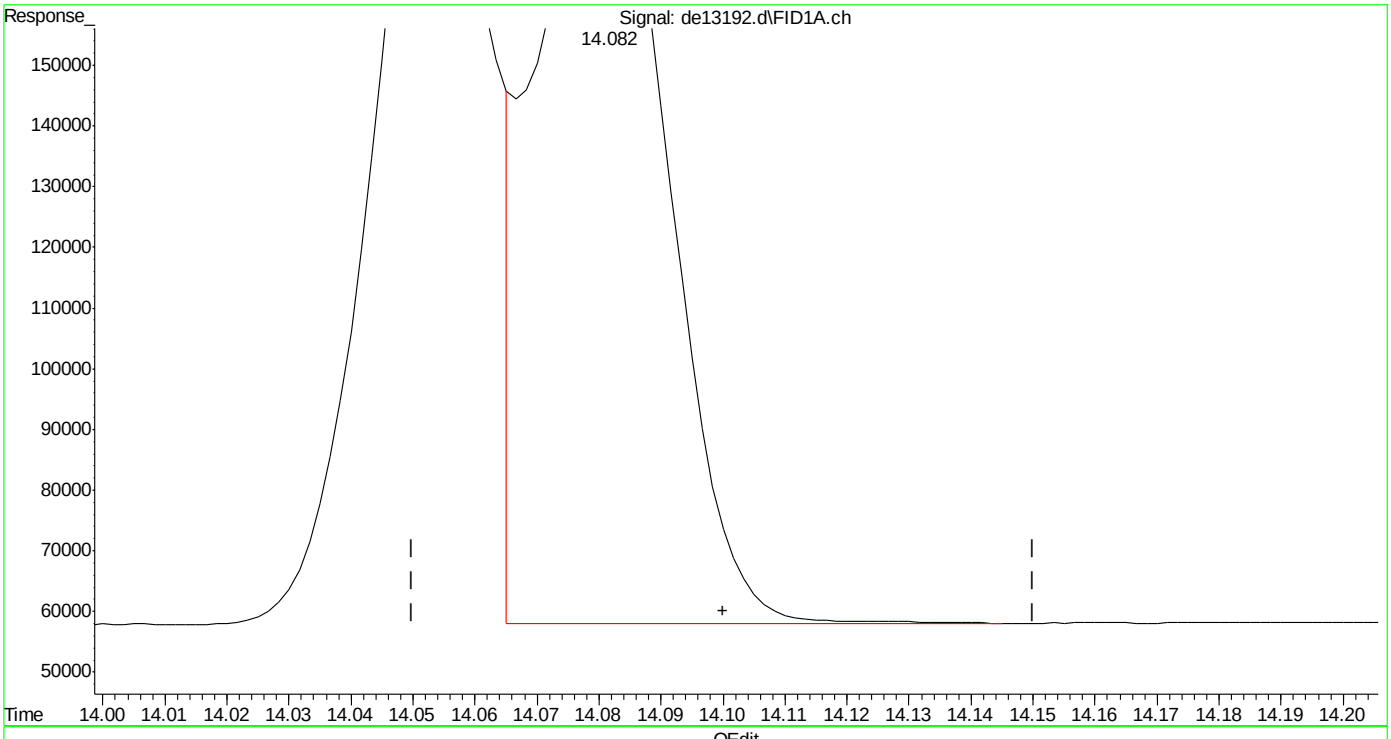
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.082min 2.077 µg/ml
response 202408

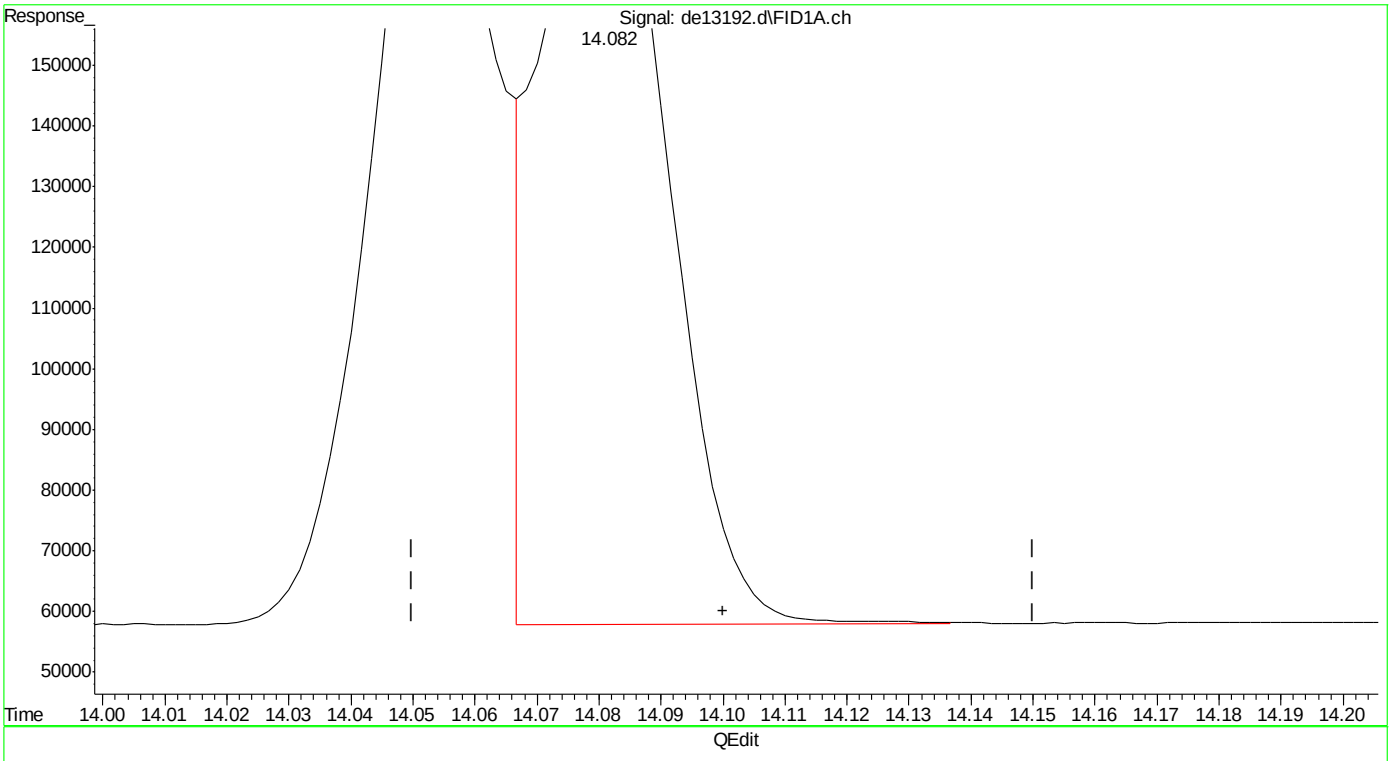
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.082min 1.989 µg/ml m
response 193855

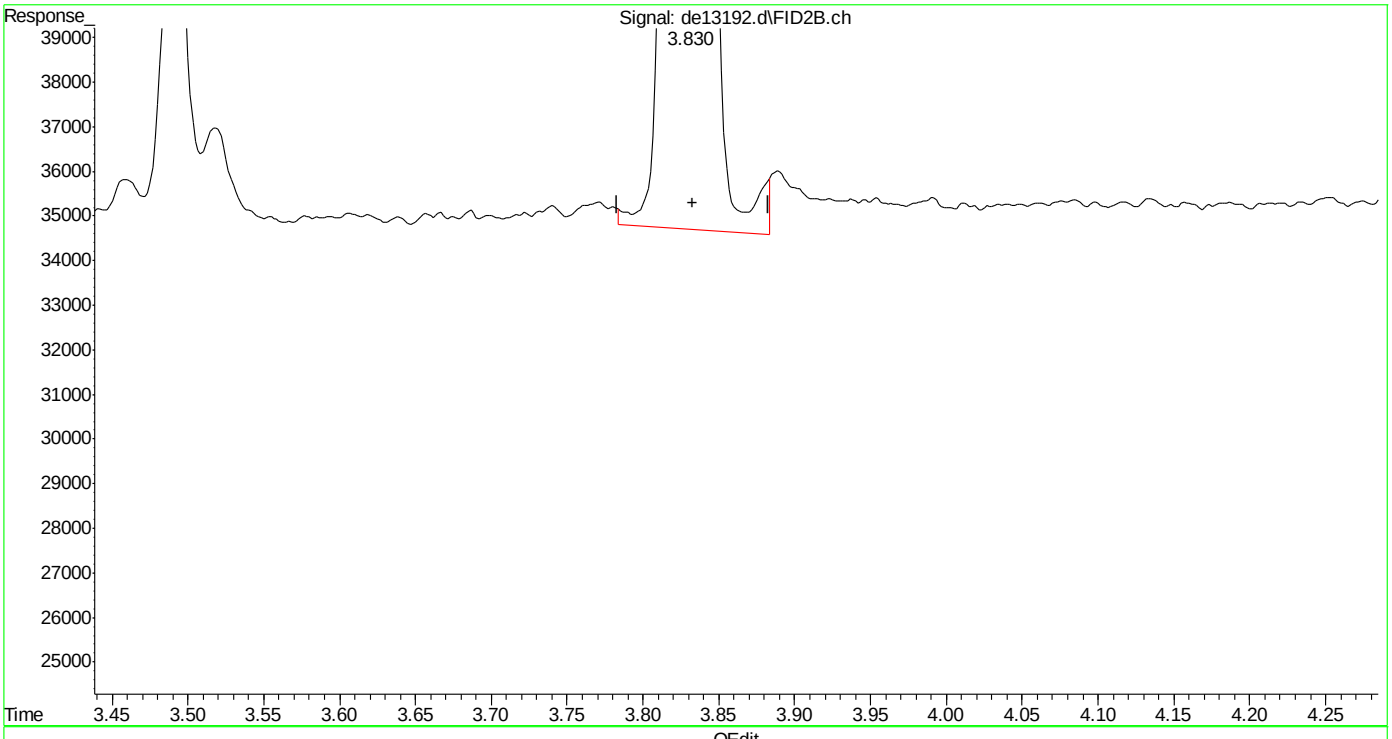
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.833min 2.166 µg/ml
response 160700

(+) = Expected Retention Time

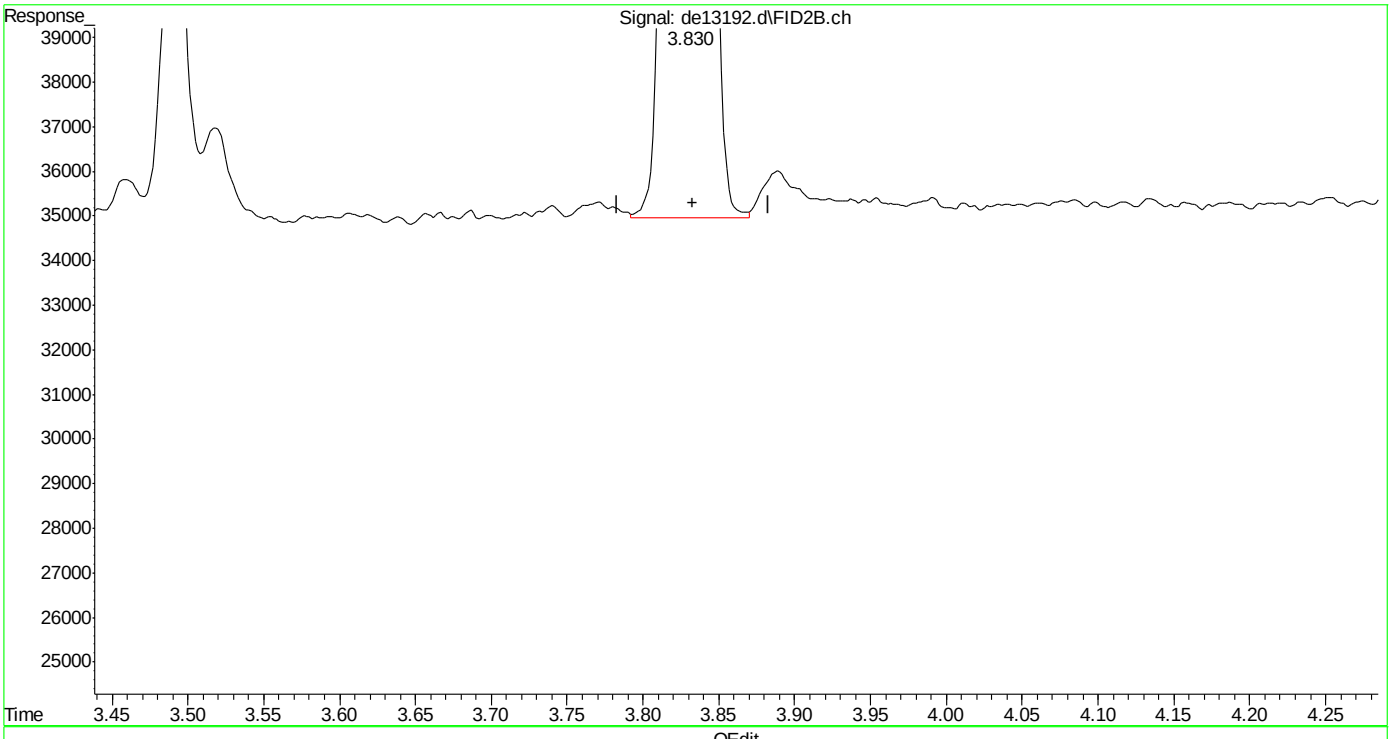
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.833min 2.139 µg/ml m
response 158649

(+) = Expected Retention Time

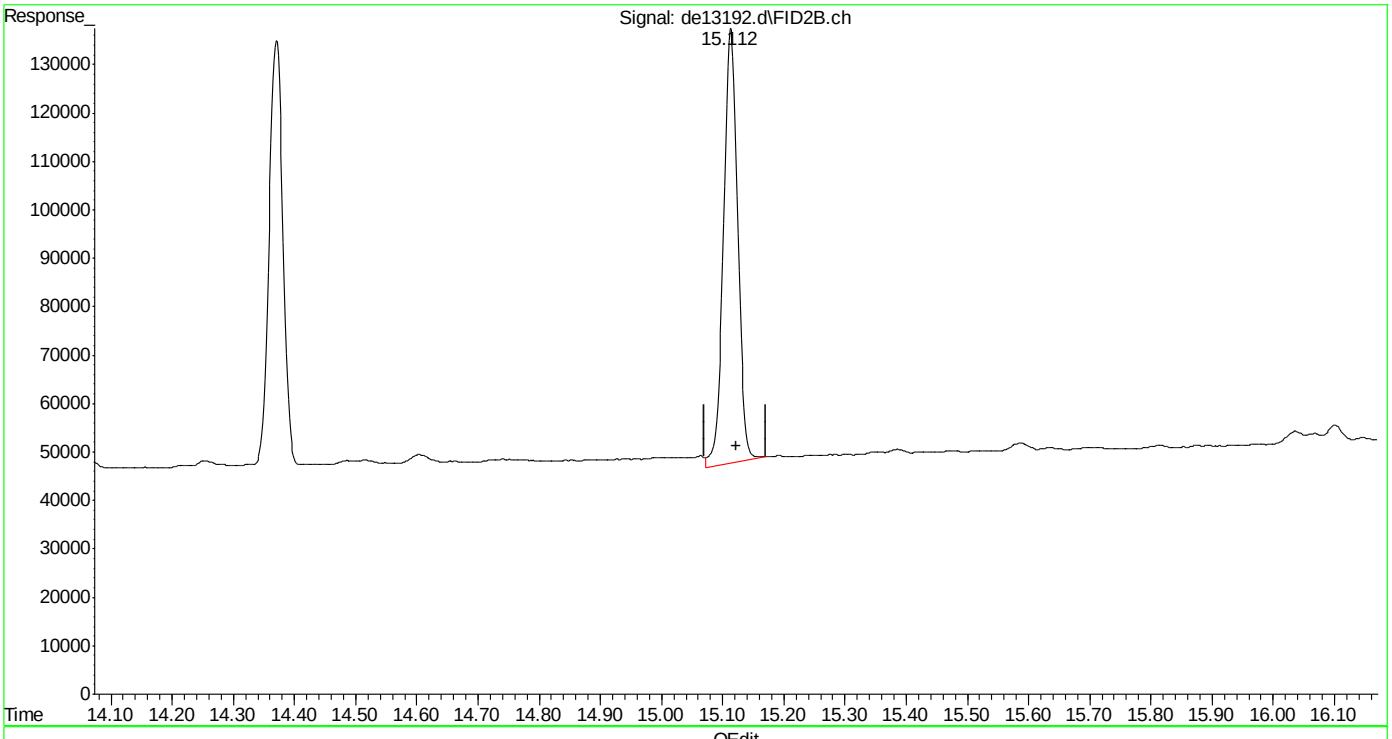
EPH160204M.M Fri Feb 05 10:41:14 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 2.133 µg/ml
response 145740

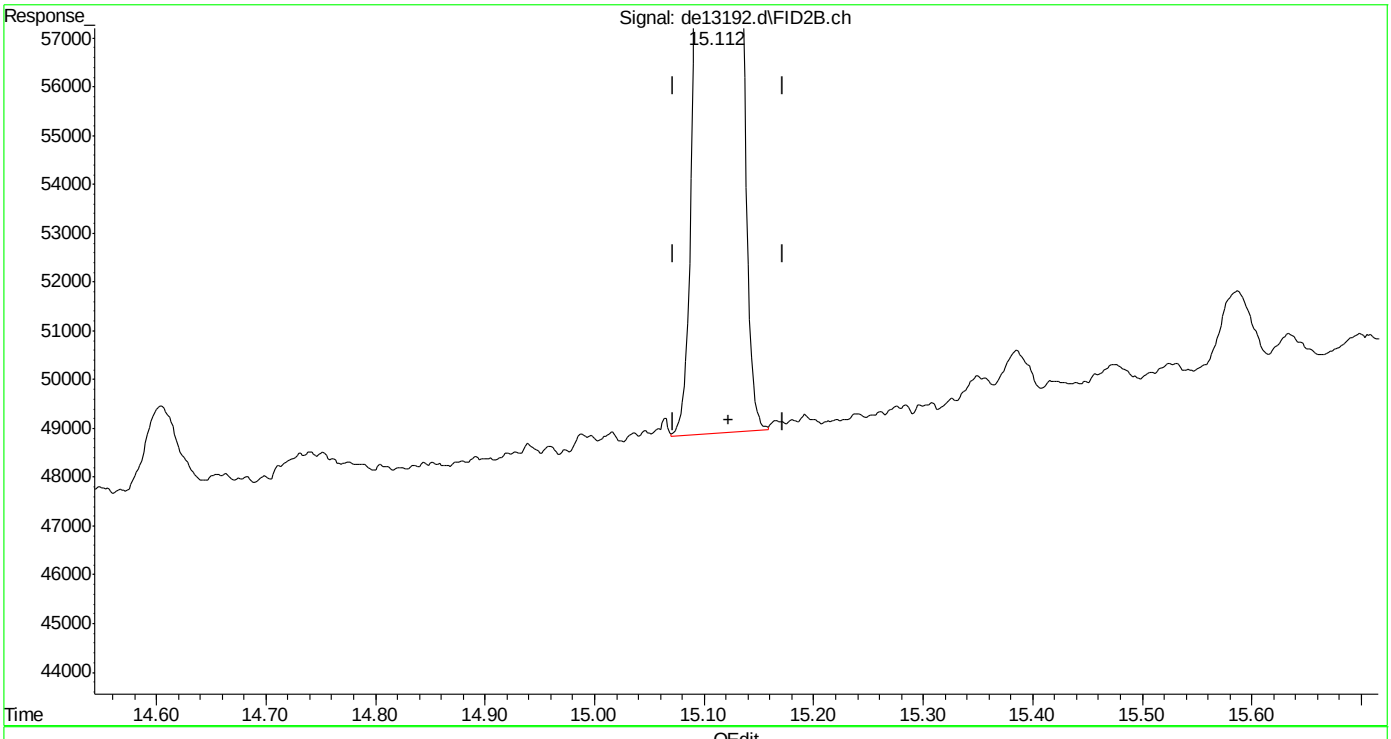
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 2.037 µg/ml m
response 139197

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:41:28 2016

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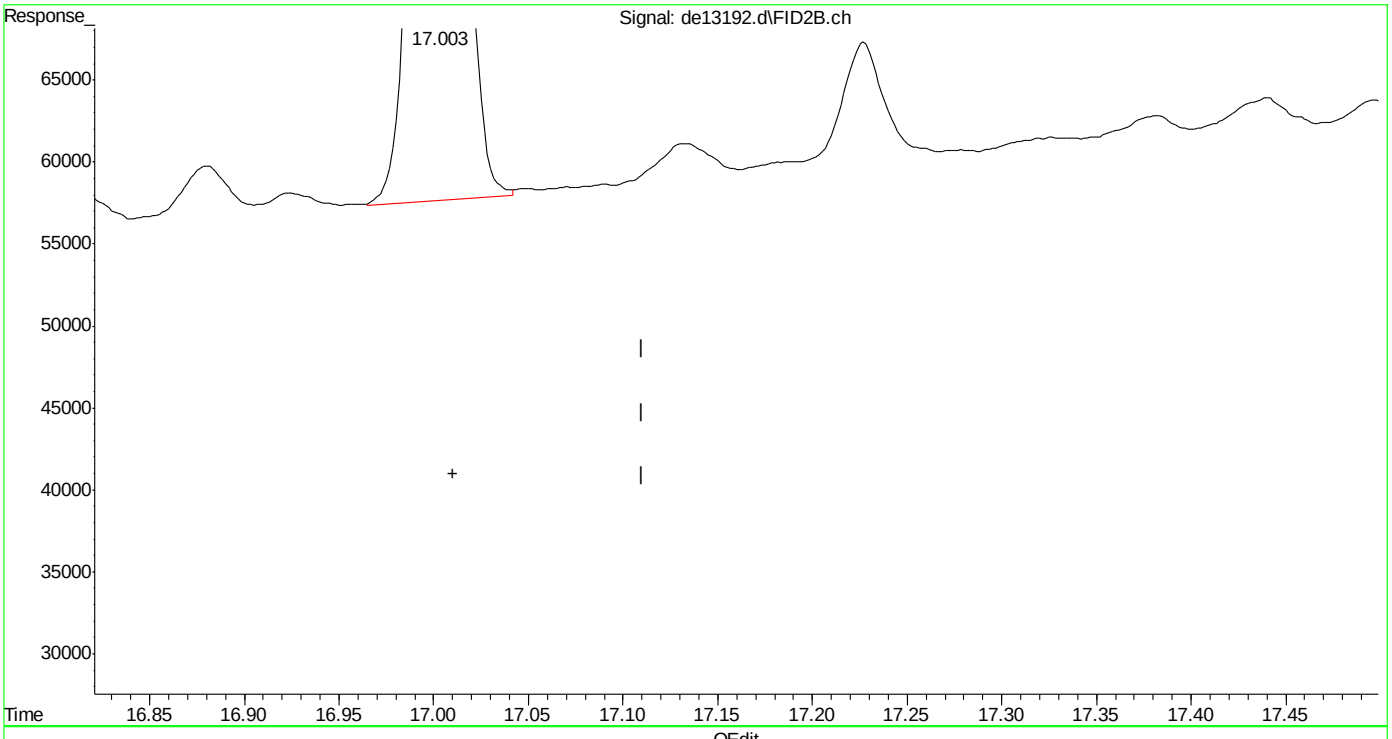
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(41) c-36 (h)
17.010min 1.930 µg/ml m
response 119416

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	466222	4.822 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.11%		
6) s 2-bromonaphthalene	7.532	318410	4.852 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.26%		
11) s o-terphenyl	10.078	516185	4.888 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.44%		
35) s 1-chlorooctadecane	11.248	298238	5.342 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 26.71%		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	9069374	5.748 µg/mlm
2) naphthalene	5.352	522941	4.813 µg/ml
3) 2-methylnaphthalene	6.250	518620	4.819 µg/ml
5) acenaphthylene	7.367	513706	4.852 µg/ml
7) acenaphthene	7.608	524765	4.857 µg/ml
8) fluorene	8.252	515691	4.866 µg/ml
9) phenanthrene	9.435	514273	4.881 µg/ml
10) anthracene	9.492	492058	5.024 µg/ml
12) fluoranthene	10.942	501463	4.866 µg/ml
13) pyrene	11.200	505877	4.848 µg/ml
14) benzo(a)anthracene	12.762	484563	4.921 µg/mlm
15) chrysene	12.807	488834	4.923 µg/mlm
16) benzo(B)fluoranthene	14.055	499942	4.931 µg/mlm
17) benzo(k)fluoranthene	14.085	474469	4.875 µg/mlm
18) benzo(a)pyrene	14.390	464216	4.850 µg/ml
19) indeno(1,2,3-cd)pyrene	15.525	472235	4.822 µg/mlm
20) dibenzo(ah)anthracene	15.572	466623	4.975 µg/mlm
21) benzo(ghi)perylene	15.745	463653	4.908 µg/ml
25) h c-9	2.680	396890	5.301 µg/mlm
26) h c-10	3.833	401630	5.322 µg/ml
27) naphthalene #2	5.510	427200	5.413 µg/ml
28) c-12	5.685	398273	5.304 µg/ml
29) 2-methylnaphthalene #2	6.403	429906	5.303 µg/ml
30) c-14	7.202	396429	5.271 µg/ml
31) c-16	8.532	389860	5.199 µg/ml
32) c-18	9.725	383929	5.164 µg/ml
33) c-19	10.282	381074	5.280 µg/ml
34) c-20	10.812	369620	5.213 µg/ml
36) c-22	11.808	364434	5.218 µg/ml
37) c-24	12.727	339349	5.097 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.578	359561	5.194	µg/ml
39)		c-28	14.372	345810	5.152	µg/ml
40)	h	c-30	15.122	345750	5.036	µg/mlm
41)	h	c-36	17.010	300895	4.906	µg/mlm

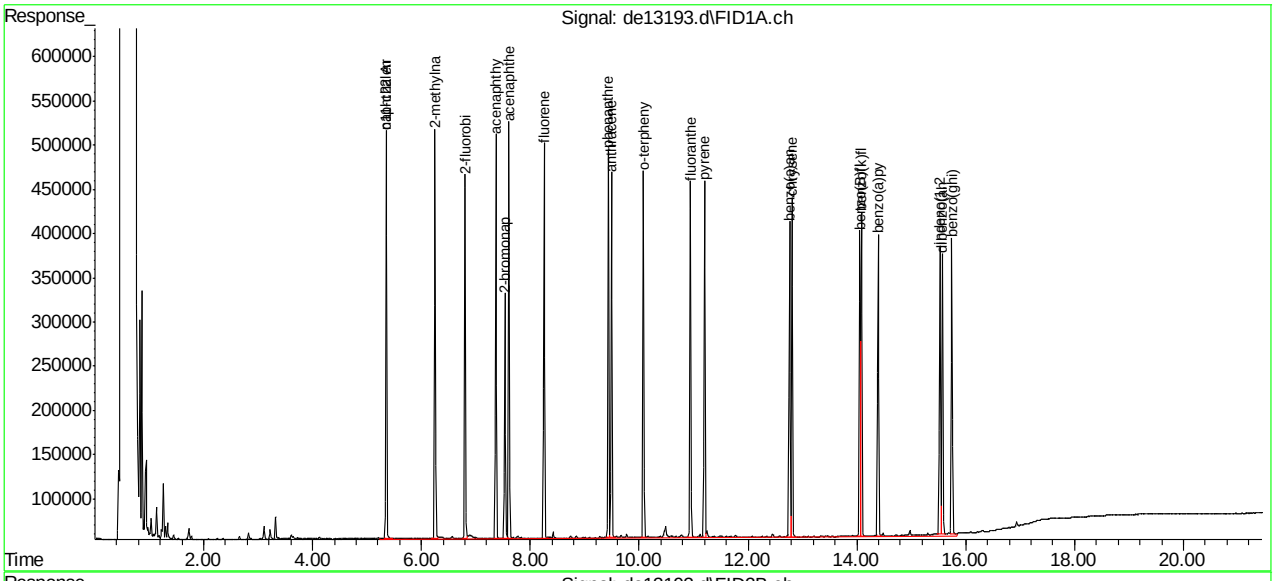
(f)=RT Delta > 1/2 Window (m)=manual int.

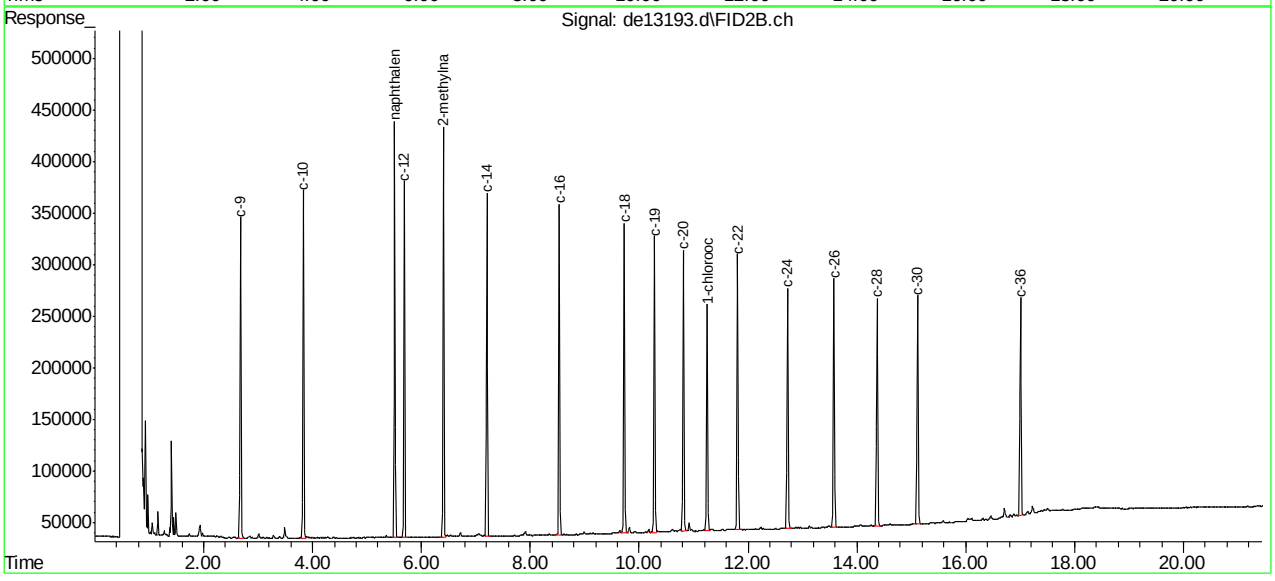
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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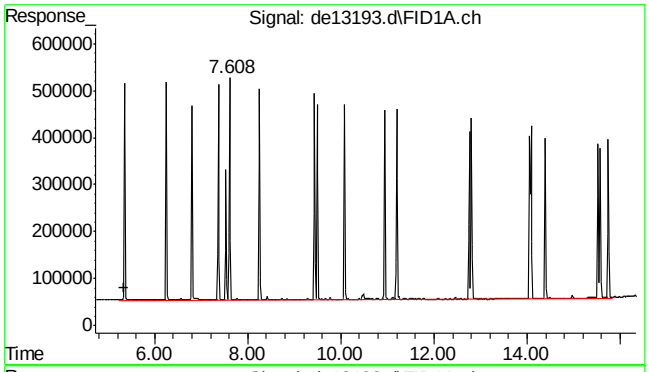
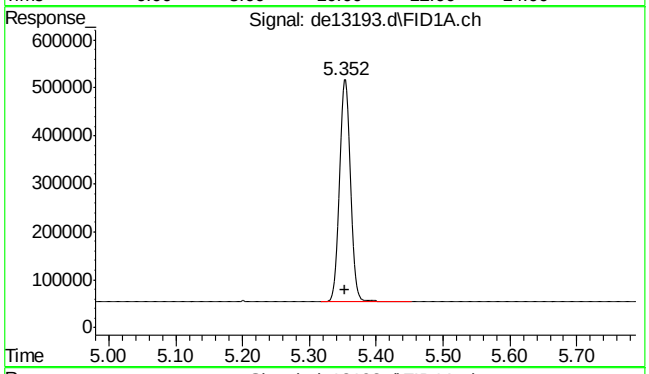


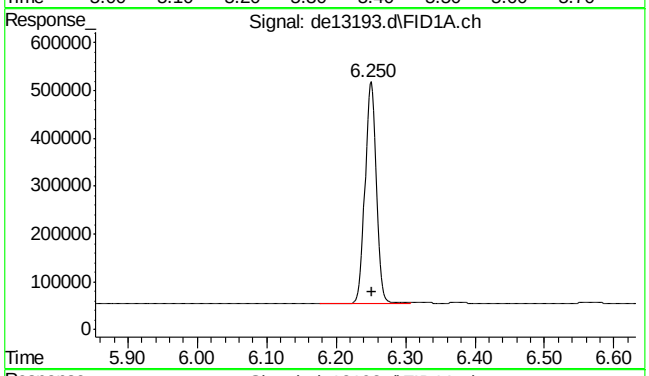
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 9069374
Conc: 5.75 µg/ml m



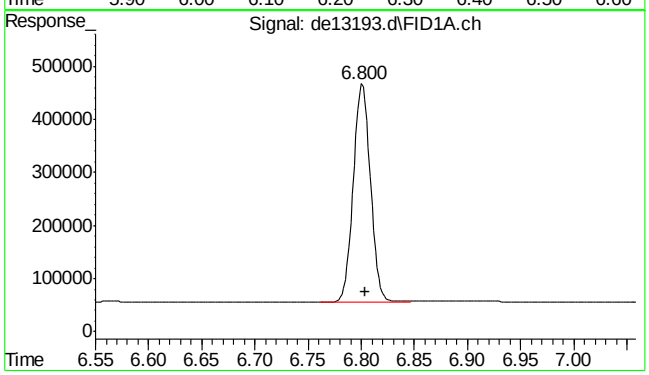
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 522941
Conc: 4.81 µg/ml



#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 518620
Conc: 4.82 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 466222
Conc: 4.82 µg/ml

9.5.3

9

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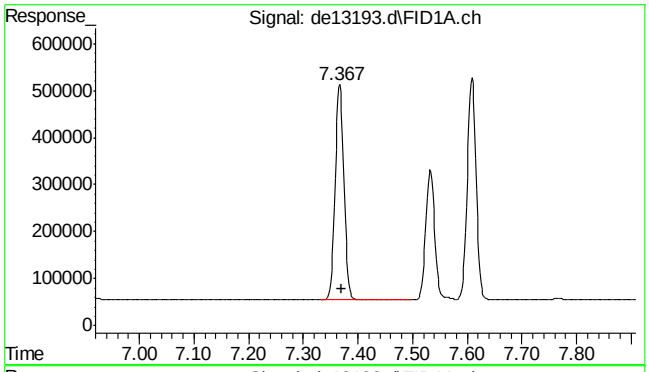
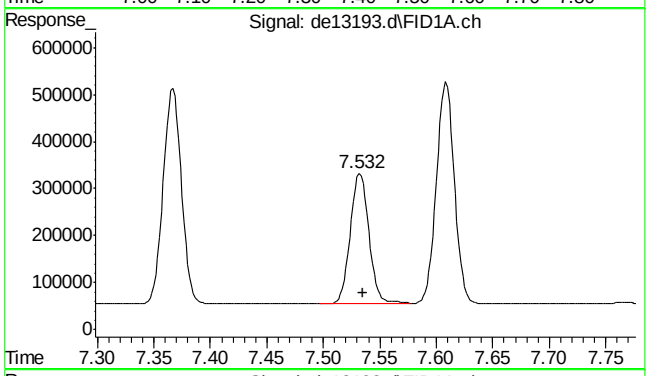


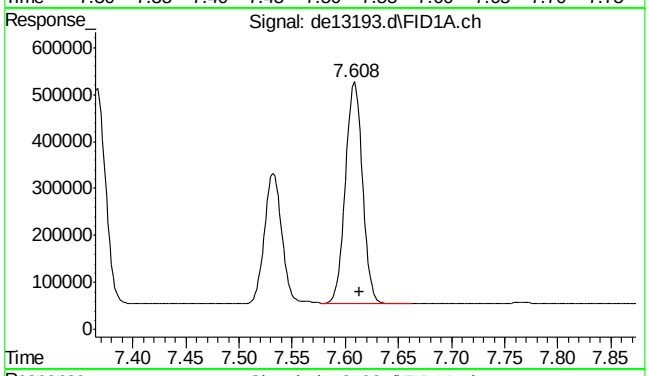
#5 acenaphthylene

R.T.: 7.367 min
Delta R.T.: -0.003 min
Response: 513706
Conc: 4.85 µg/ml



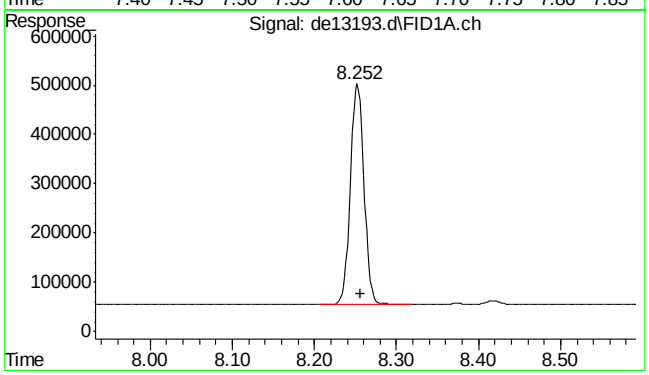
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 318410
Conc: 4.85 µg/ml



#7 acenaphthene

R.T.: 7.608 min
Delta R.T.: -0.005 min
Response: 524765
Conc: 4.86 µg/ml



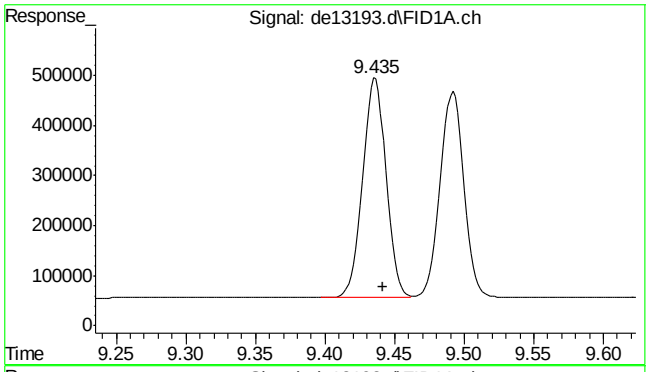
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 515691
Conc: 4.87 µg/ml

9.5.3

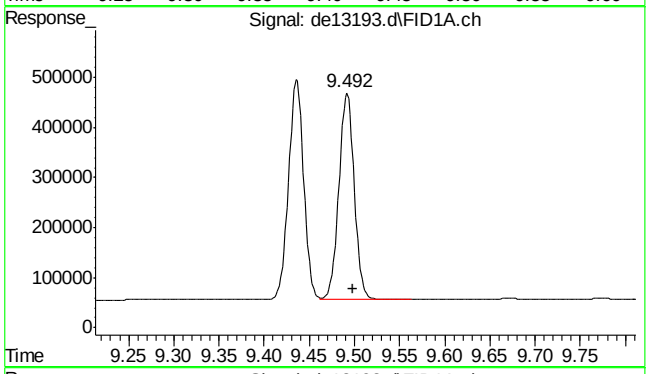
9

SGS ACCUTEST MC45816A



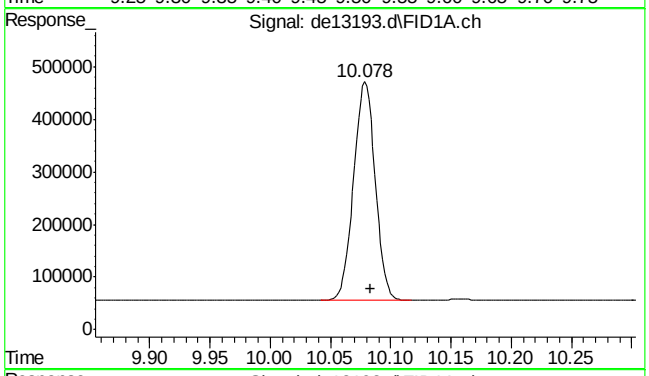
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 514273
Conc: 4.88 µg/ml



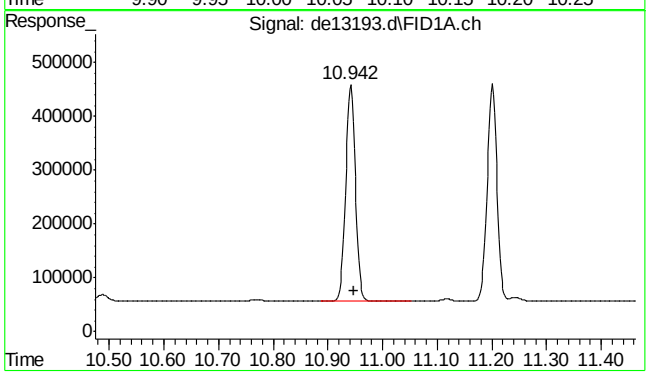
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 492058
Conc: 5.02 µg/ml



#11 o-terphenyl

R.T.: 10.078 min
Delta R.T.: -0.005 min
Response: 516185
Conc: 4.89 µg/ml



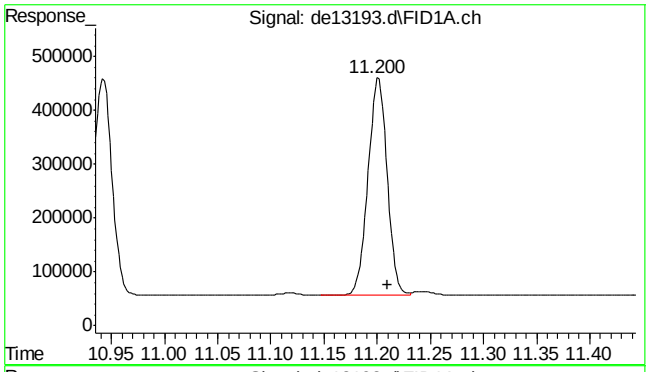
#12 fluoranthene

R.T.: 10.942 min
Delta R.T.: -0.007 min
Response: 501463
Conc: 4.87 µg/ml

9.5.3

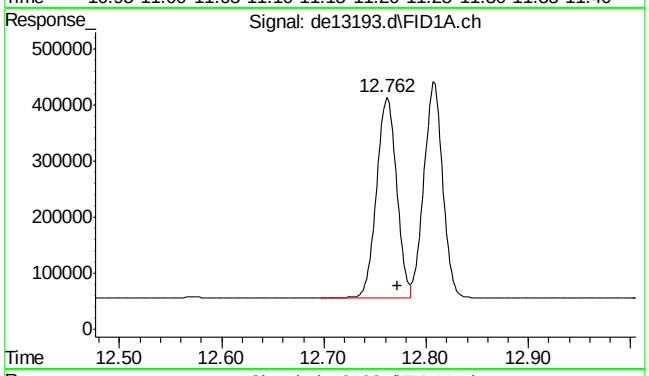
9

SGS ACCUTEST MC45816A



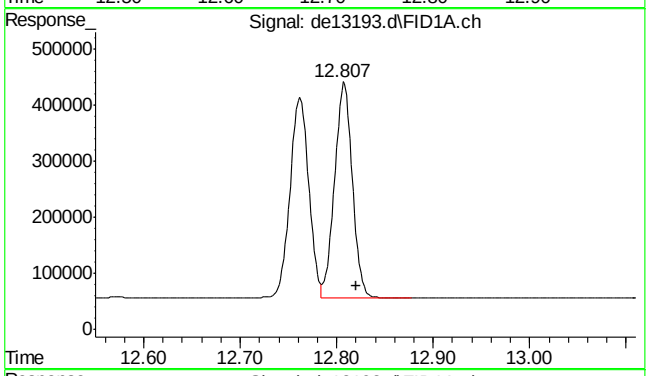
#13 pyrene

R.T.: 11.200 min
Delta R.T.: -0.010 min
Response: 505877
Conc: 4.85 µg/ml



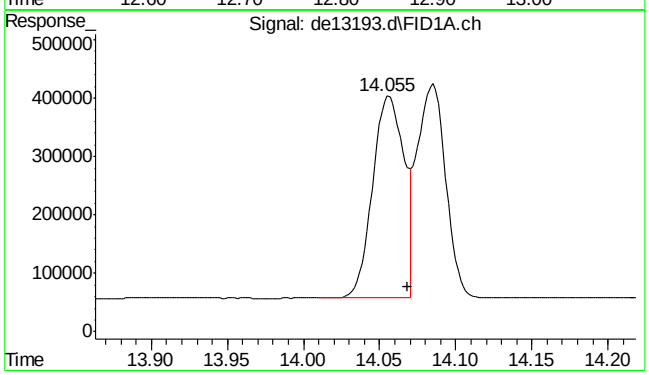
#14 benzo(a)anthracene

R.T.: 12.762 min
Delta R.T.: -0.010 min
Response: 484563
Conc: 4.92 µg/ml m



#15 chrysene

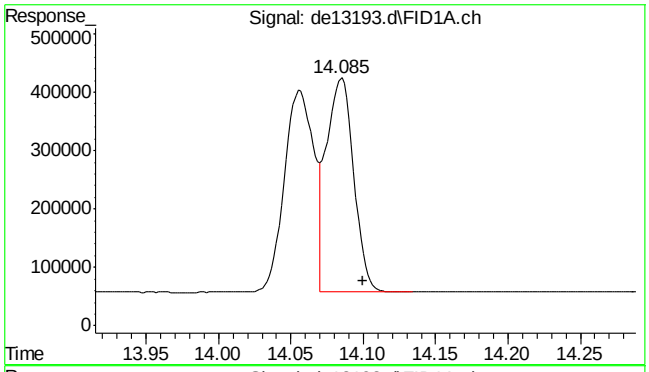
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 488834
Conc: 4.92 µg/ml m



#16 benzo(B)fluoranthene

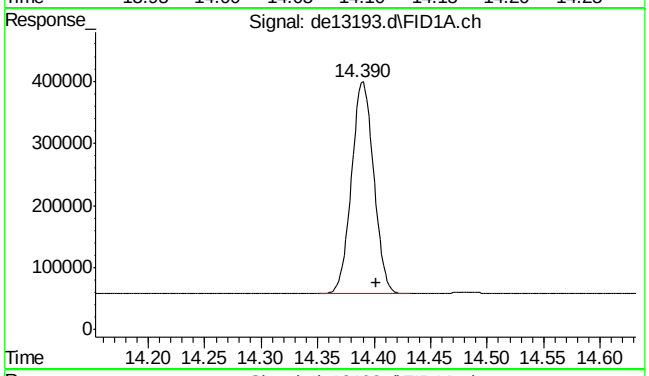
R.T.: 14.055 min
Delta R.T.: -0.013 min
Response: 499942
Conc: 4.93 µg/ml m

SGS ACCUTEST MC45816A



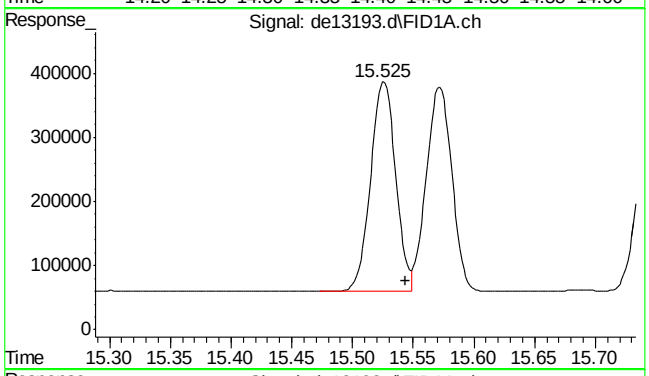
#17 benzo(k)fluoranthene

R.T.: 14.085 min
Delta R.T.: -0.015 min
Response: 474469
Conc: 4.88 µg/ml m



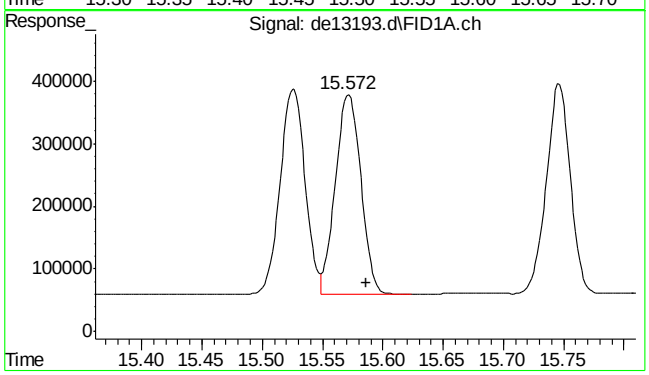
#18 benzo(a)pyrene

R.T.: 14.390 min
Delta R.T.: -0.012 min
Response: 464216
Conc: 4.85 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.525 min
Delta R.T.: -0.018 min
Response: 472235
Conc: 4.82 µg/ml m



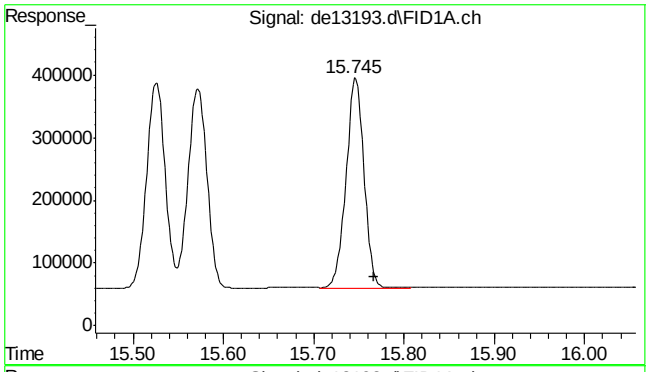
#20 dibenzo(ah)anthracene

R.T.: 15.572 min
Delta R.T.: -0.015 min
Response: 466623
Conc: 4.97 µg/ml m

9.5.3

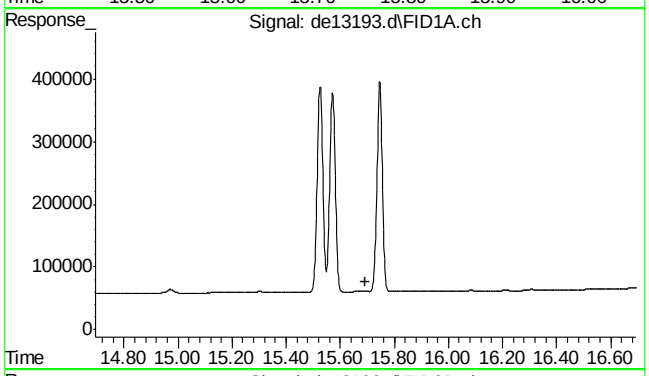
9

SGS ACCUTEST MC45816A



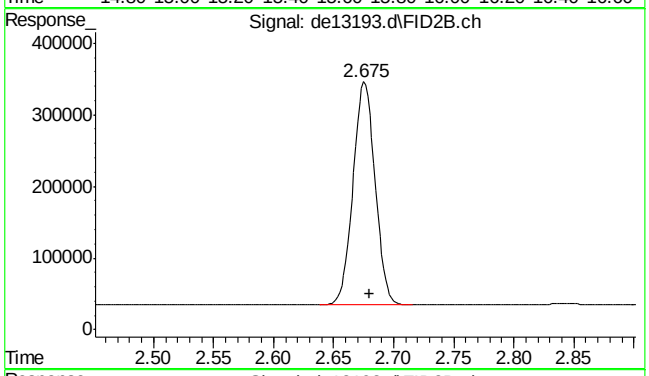
#21 benzo(ghi)perylene

R.T.: 15.745 min
Delta R.T.: -0.022 min
Response: 463653
Conc: 4.91 µg/ml



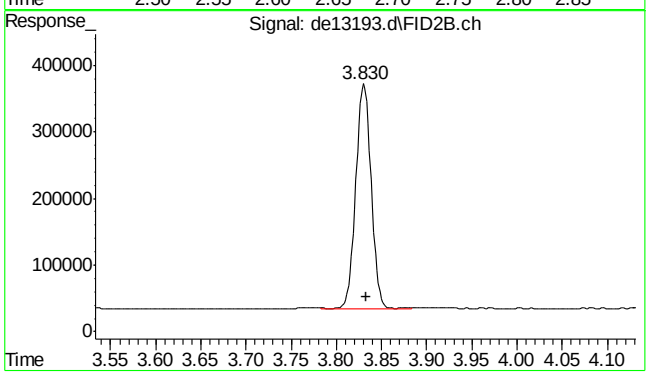
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 396890
Conc: 5.30 µg/ml m



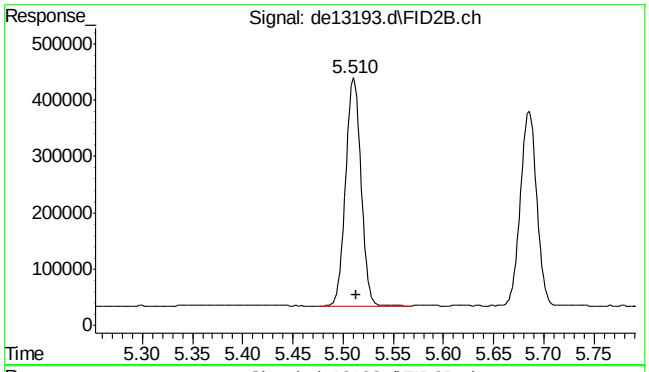
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 401630
Conc: 5.32 µg/ml

9.5.3

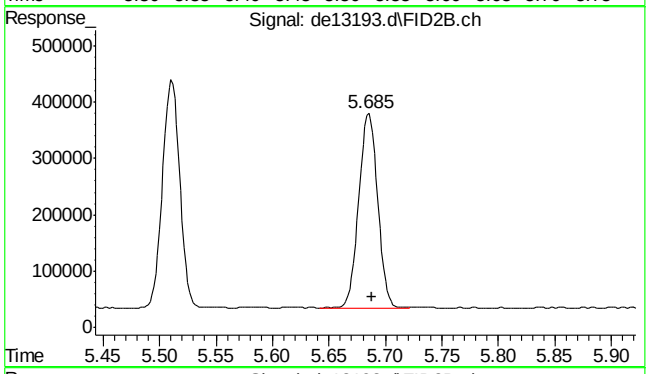
9

SGS ACCUTEST MC45816A



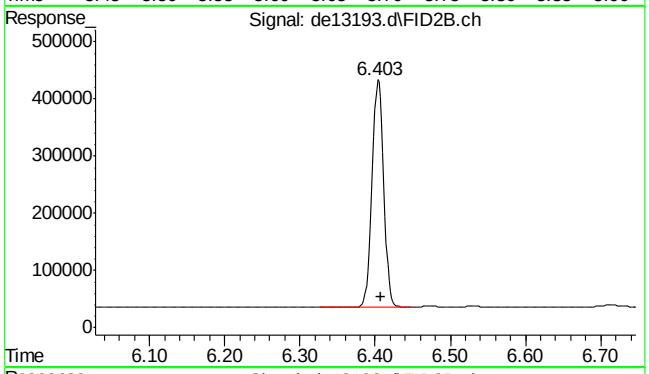
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 427200
Conc: 5.41 µg/ml



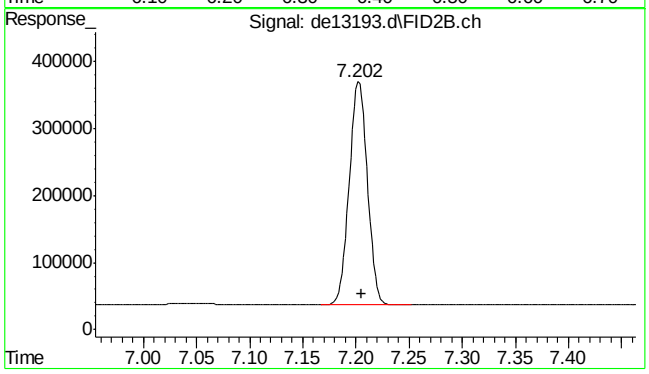
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 398273
Conc: 5.30 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 429906
Conc: 5.30 µg/ml



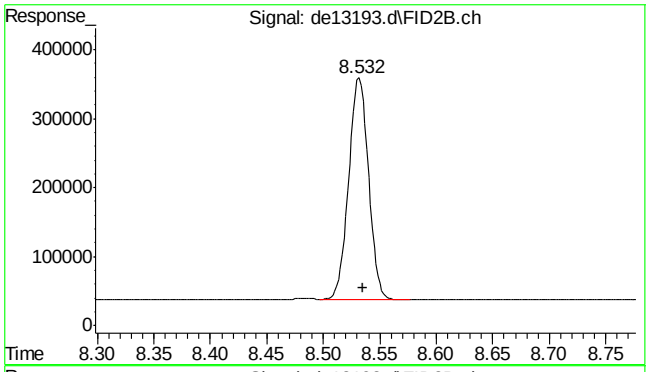
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 396429
Conc: 5.27 µg/ml

9.5.3

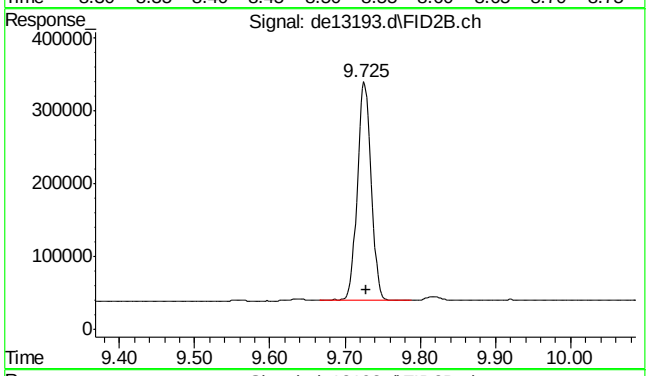
9

SGS ACCUTEST MC45816A



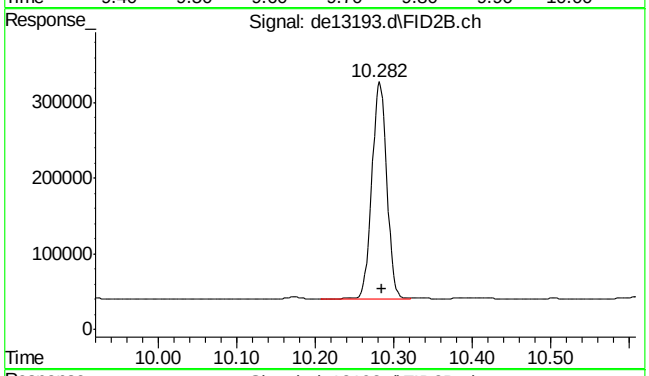
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 389860
Conc: 5.20 µg/ml



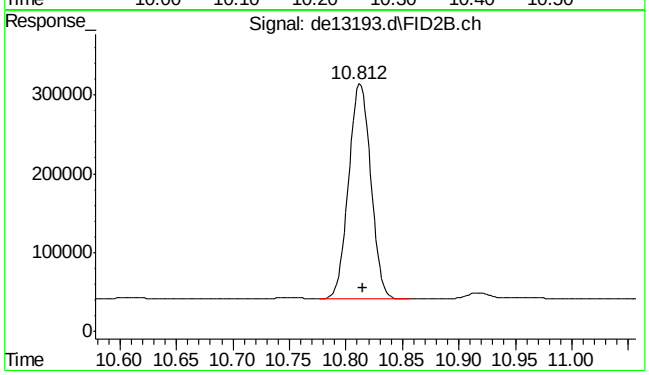
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 383929
Conc: 5.16 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 381074
Conc: 5.28 µg/ml



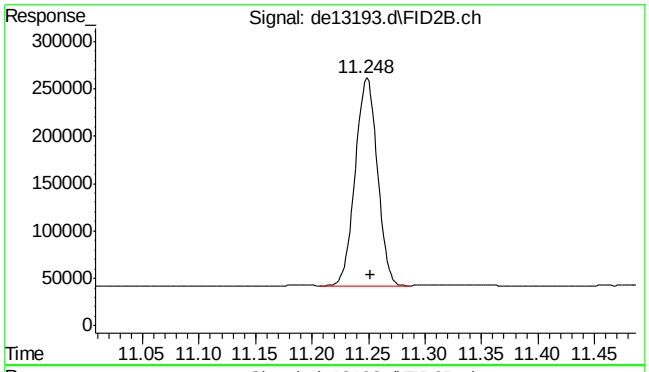
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 369620
Conc: 5.21 µg/ml

9.5.3

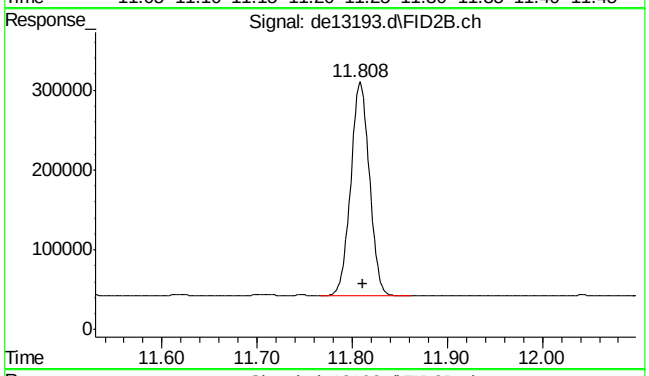
9

SGS ACCUTEST MC45816A



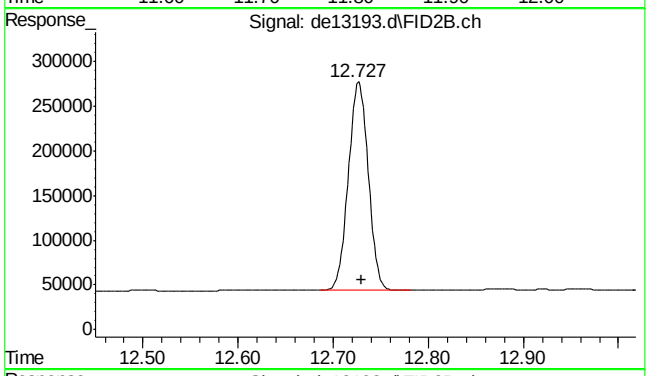
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 298238
Conc: 5.34 µg/ml



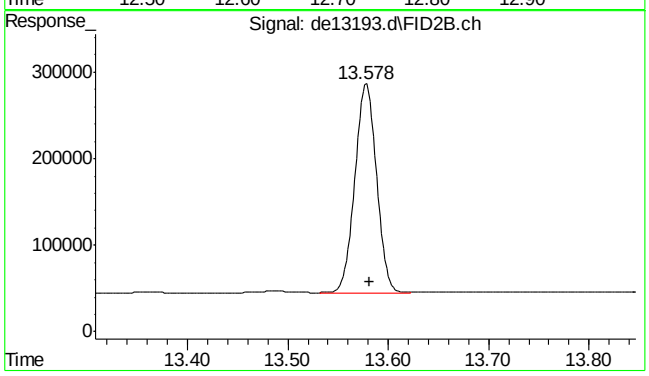
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 364434
Conc: 5.22 µg/ml



#37 c-24

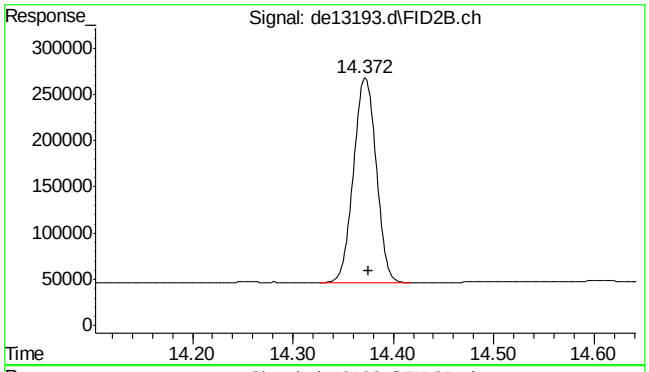
R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 339349
Conc: 5.10 µg/ml



#38 c-26

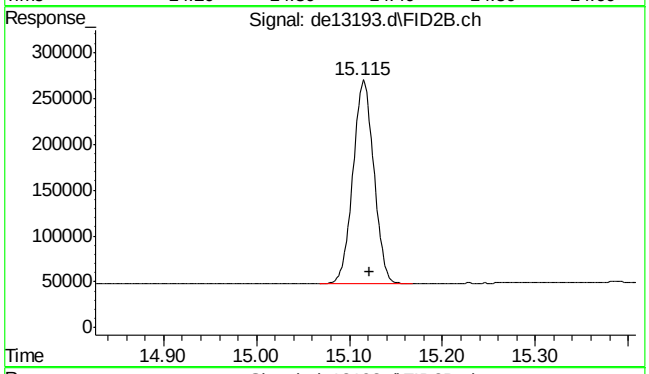
R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 359561
Conc: 5.19 µg/ml

SGS ACCUTEST MC45816A



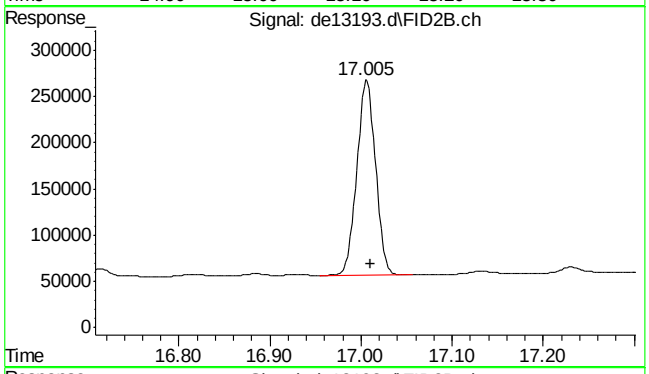
#39 c-28

R.T.: 14.372 min
Delta R.T.: -0.003 min
Response: 345810
Conc: 5.15 µg/ml



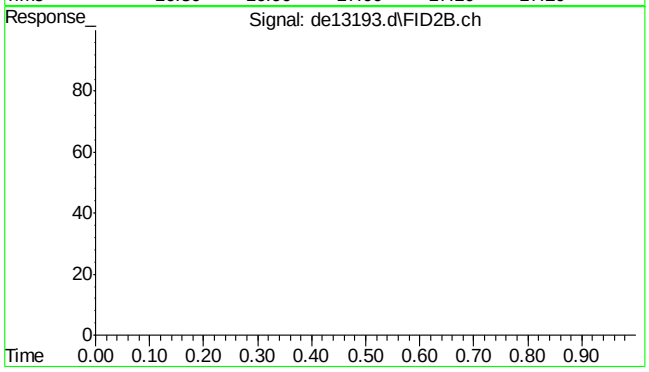
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 345750
Conc: 5.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 300895
Conc: 4.91 µg/ml m



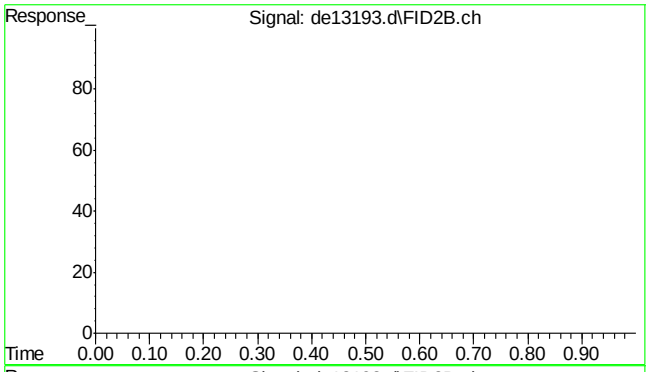
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.3

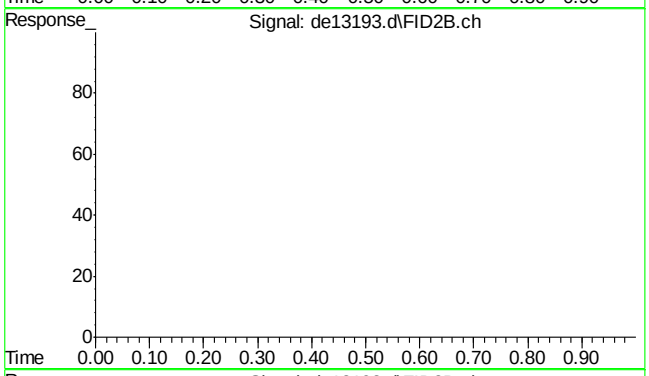
9

SGS ACCUTEST MC45816A



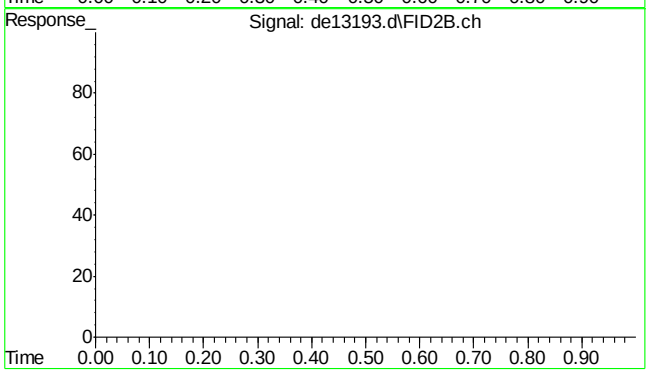
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

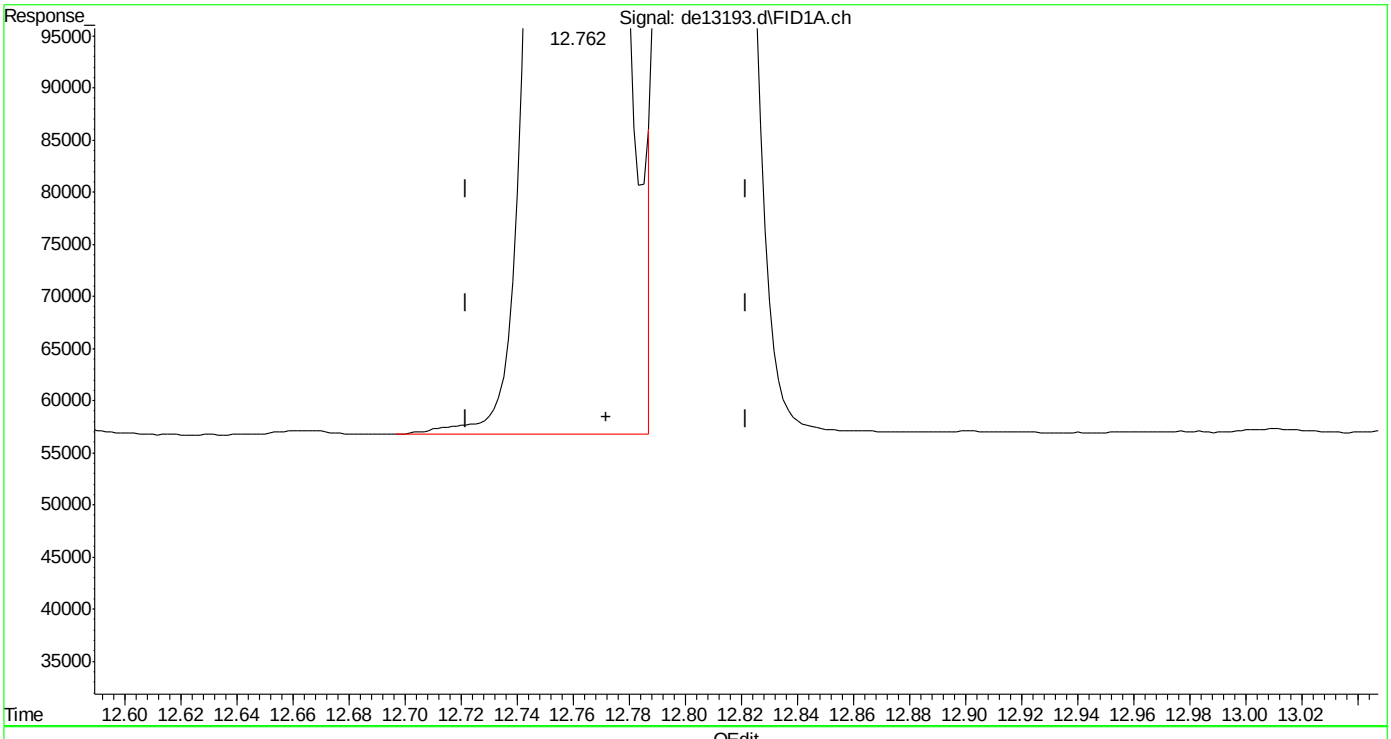
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.762min 4.949 µg/ml
response 487331

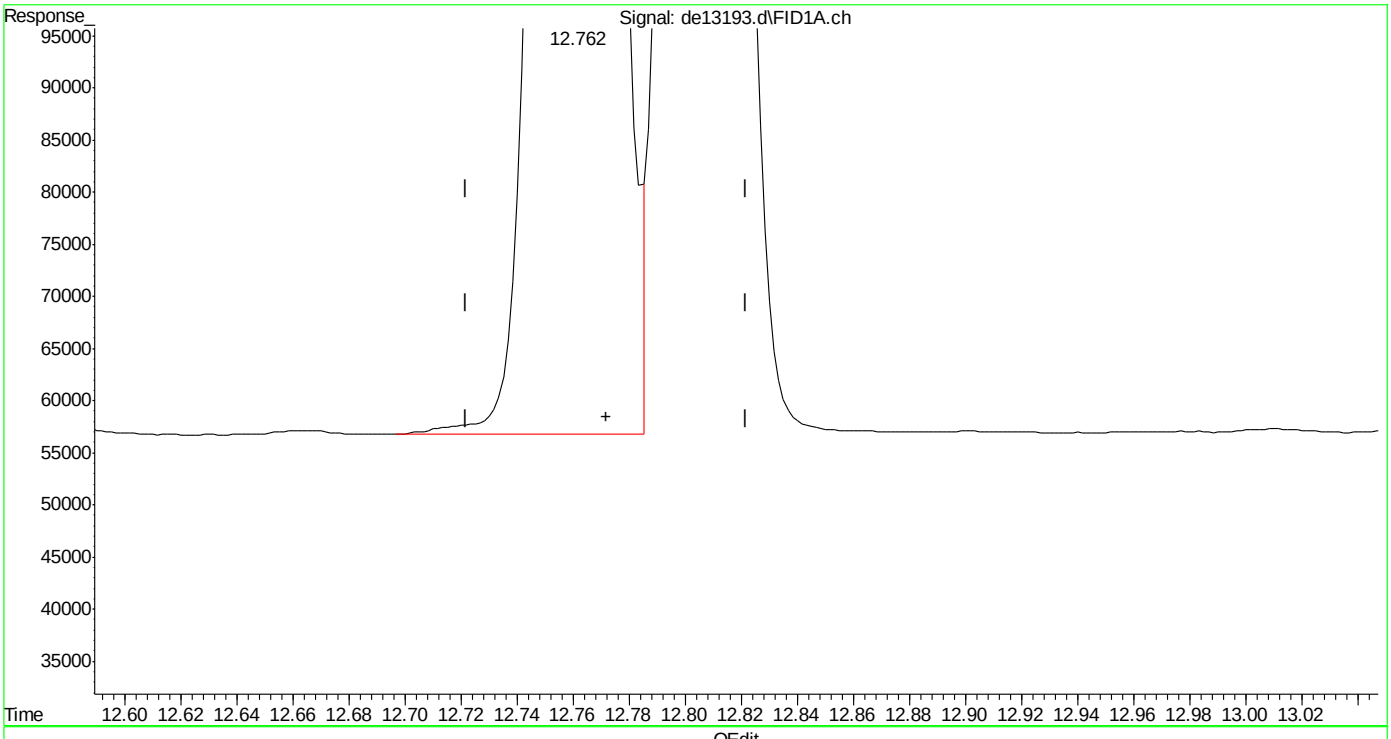
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.762min 4.921 µg/ml m
response 484563

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:21 2016

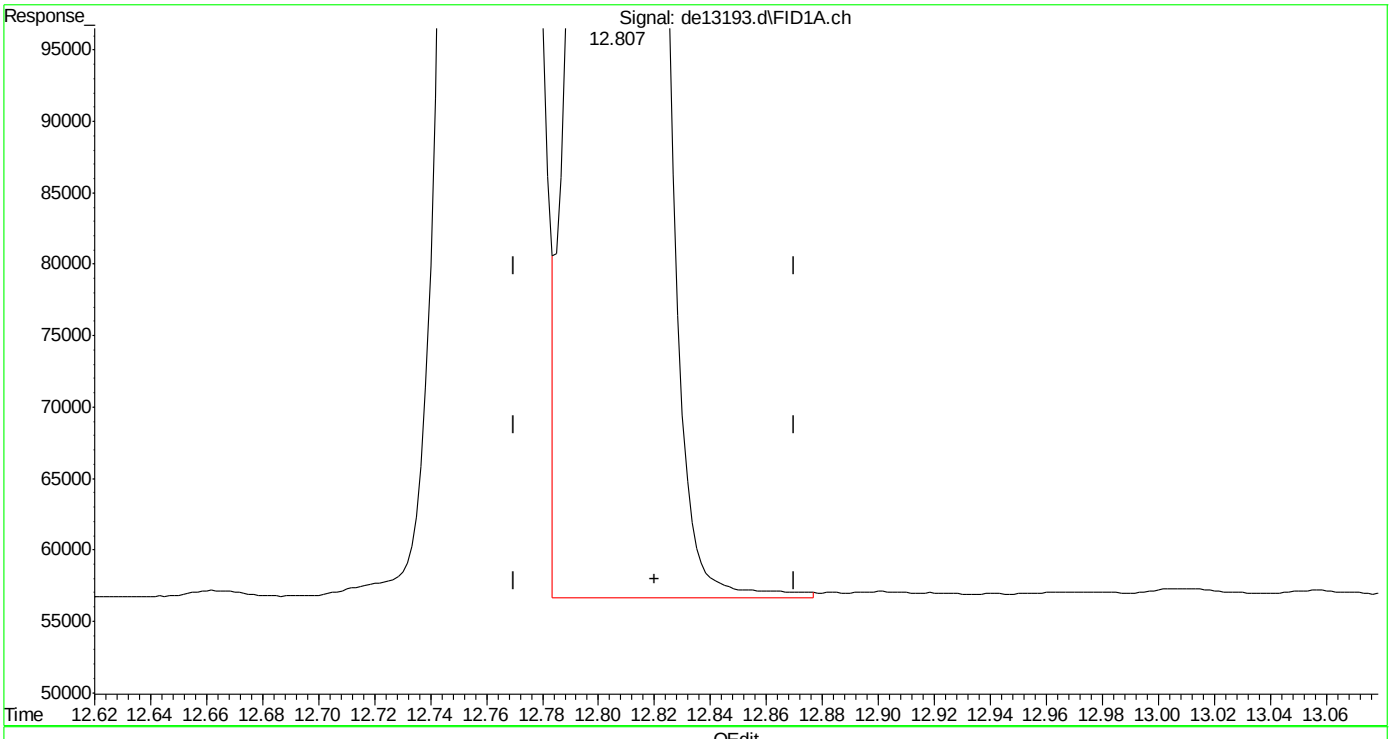
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.807min 4.923 µg/ml m
response 488834

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:45 2016

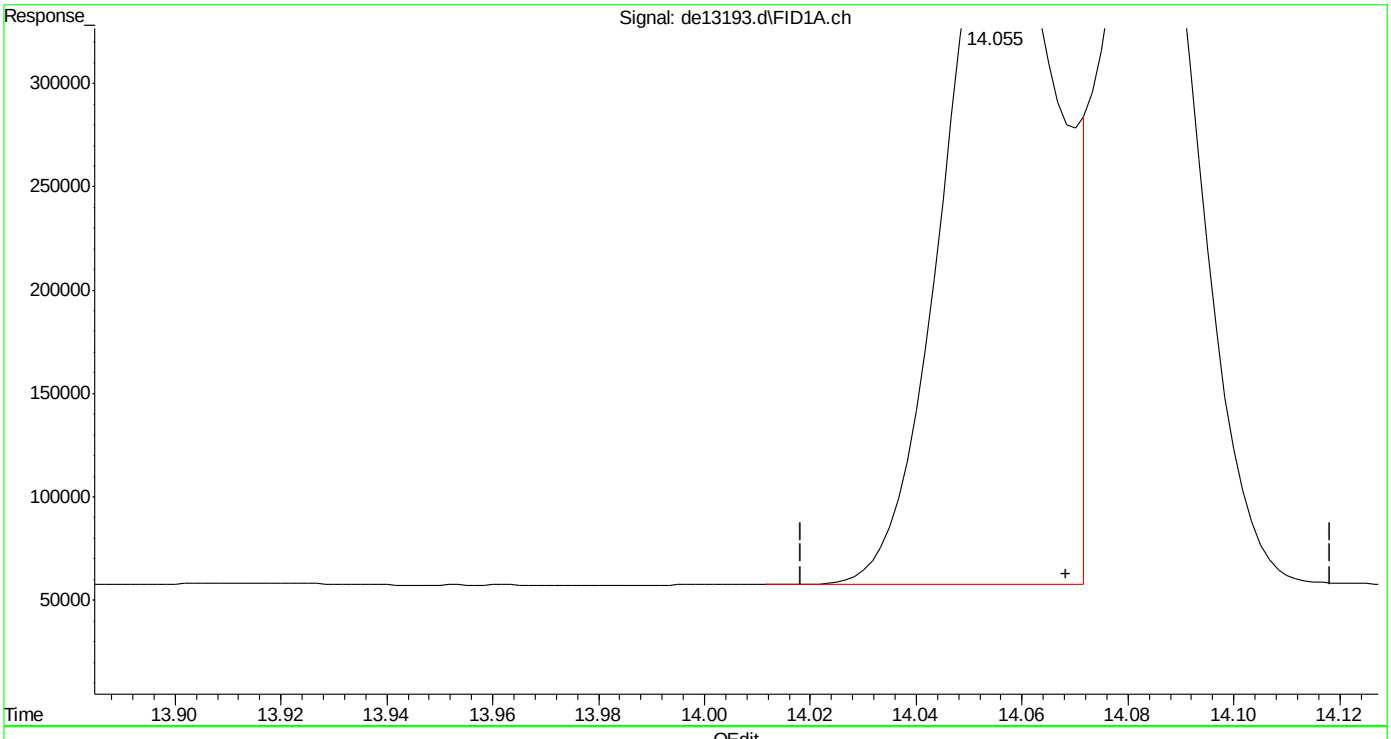
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.055min 5.155 µg/ml
response 522606

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:50 2016

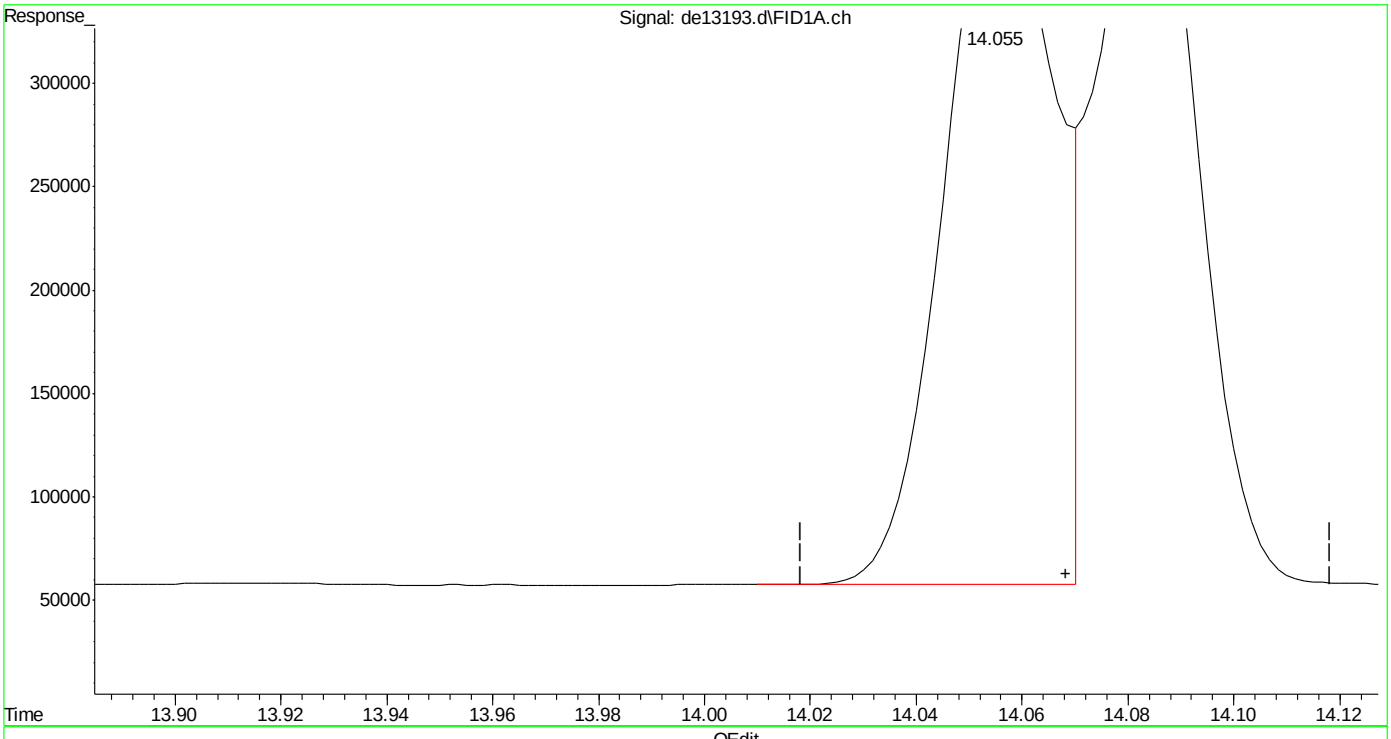
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.055min 4.931 µg/ml m
response 499942

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:57 2016

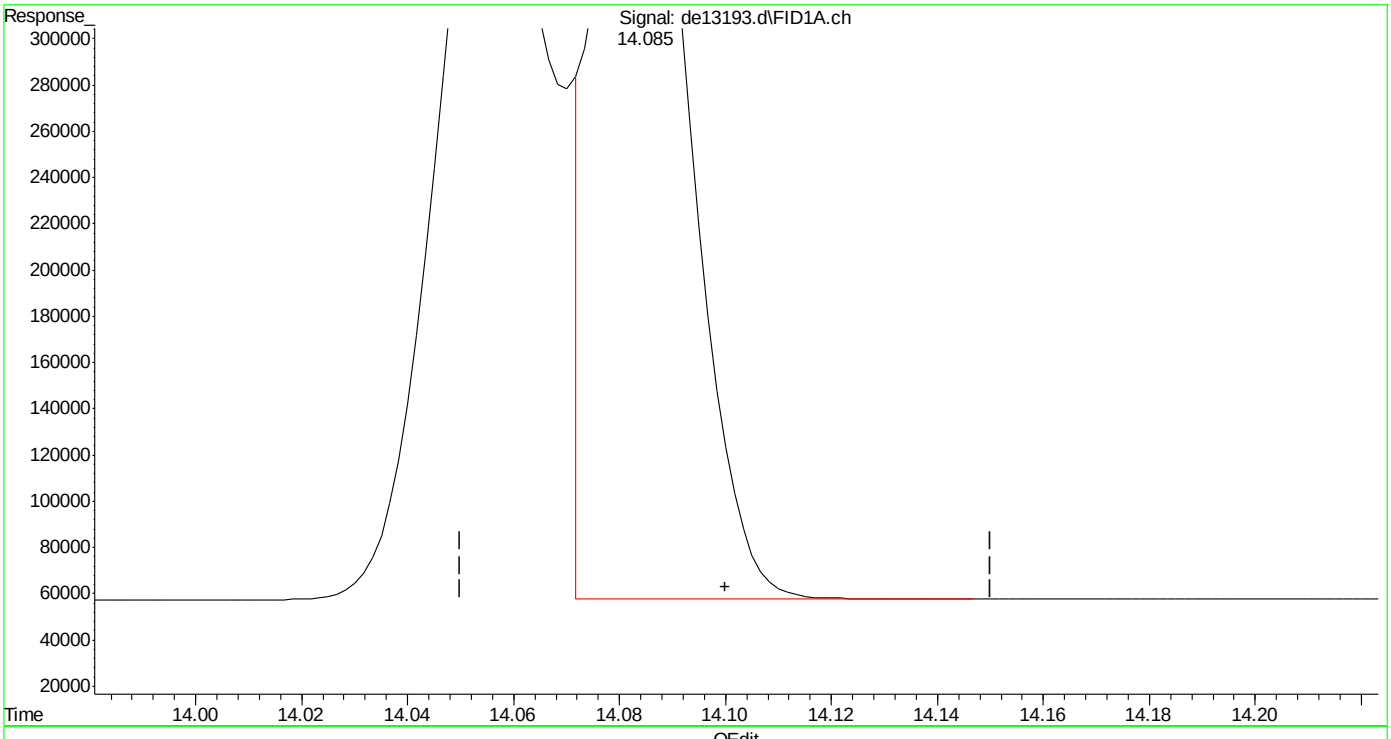
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.085min 4.636 µg/ml
response 451155

(+) = Expected Retention Time

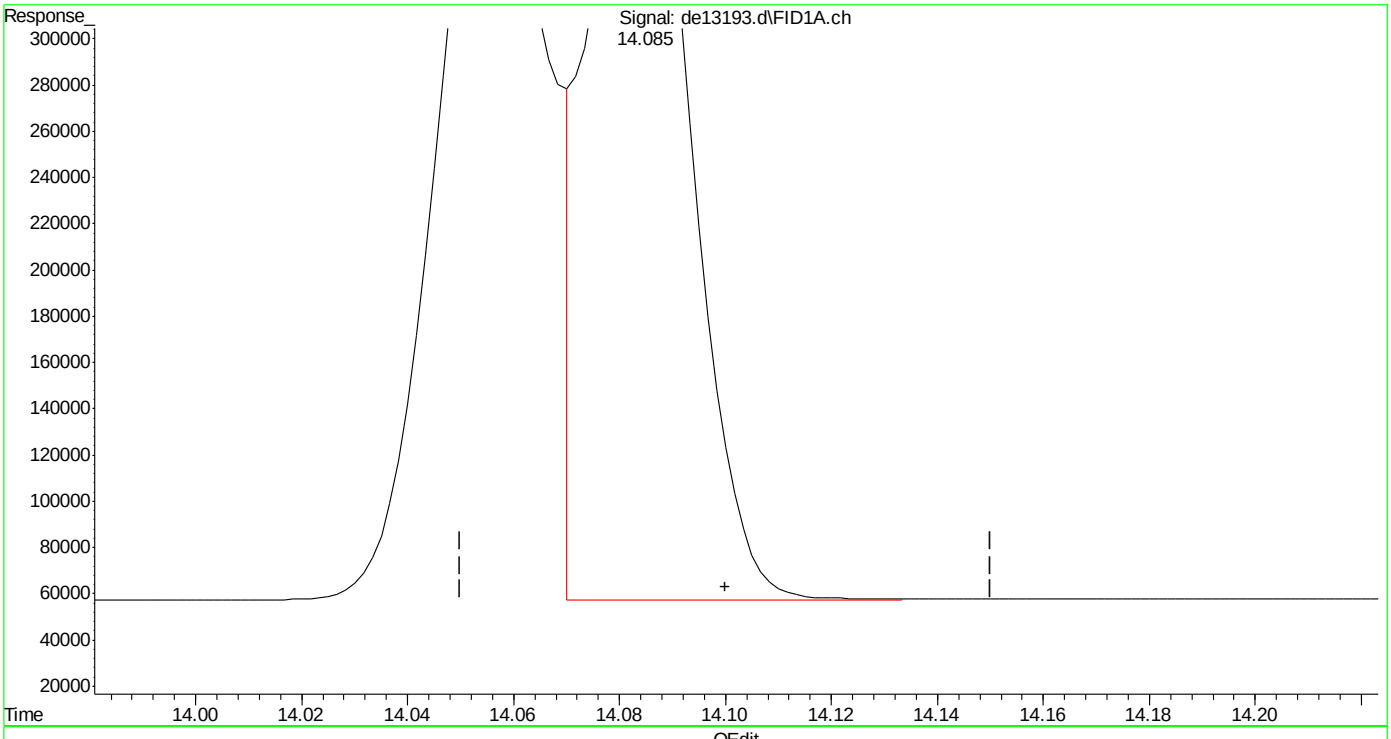
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.085min 4.875 µg/ml m
response 474469

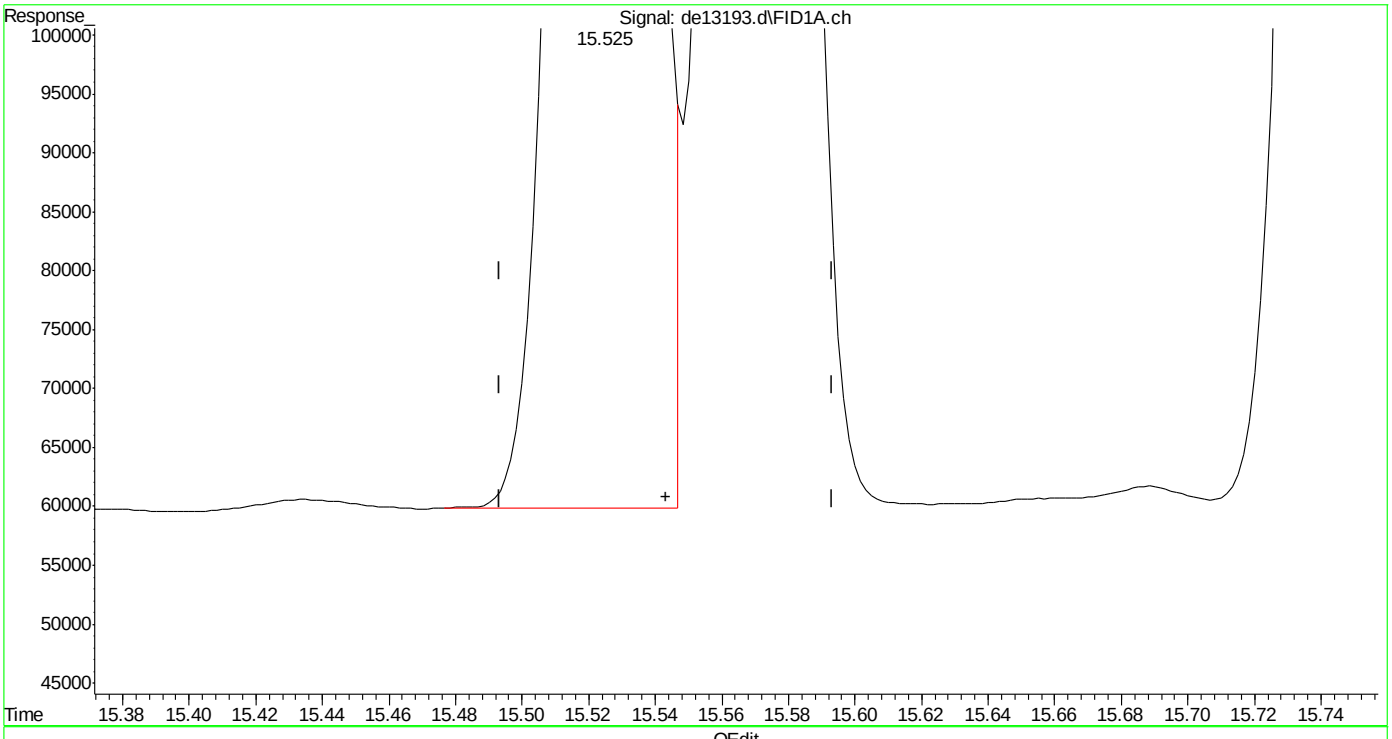
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.525min 4.785 µg/ml
response 468557

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:19 2016

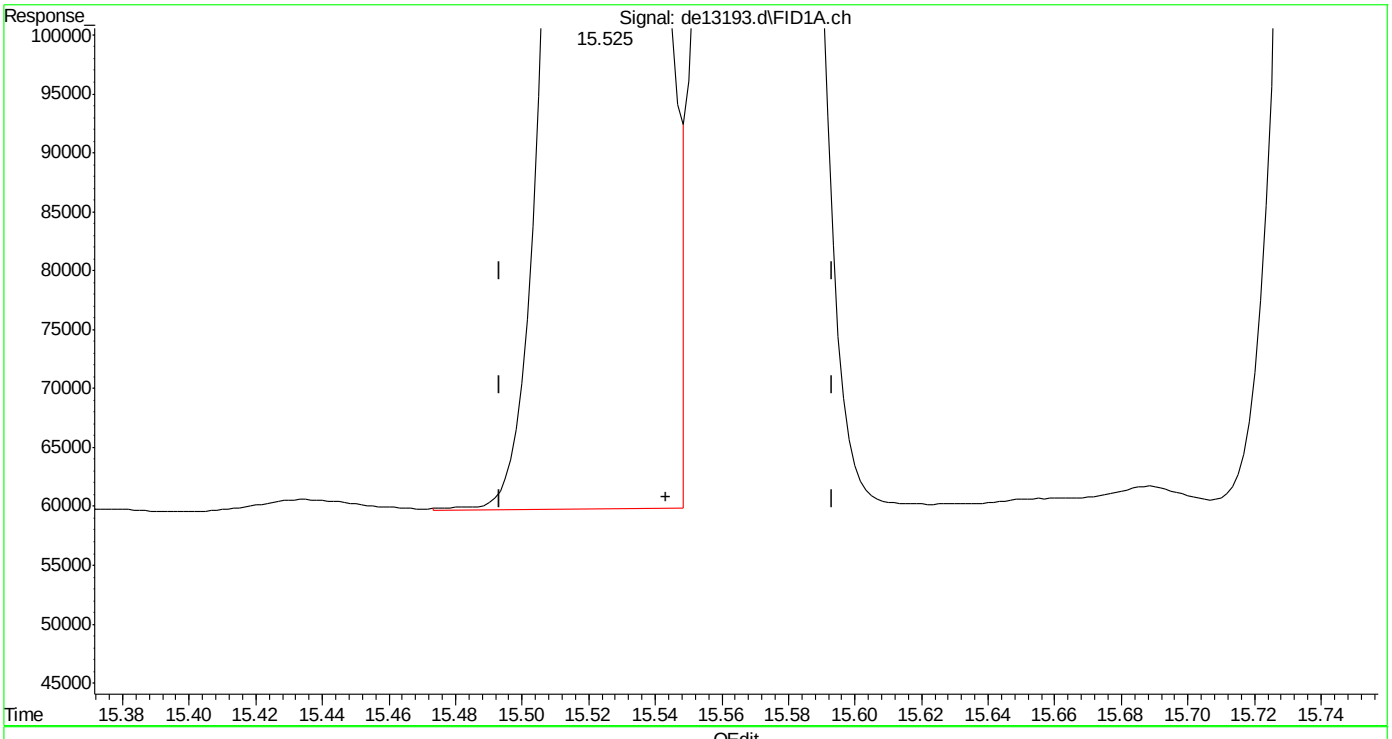
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.525min 4.822 µg/ml m
response 472235

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:45 2016

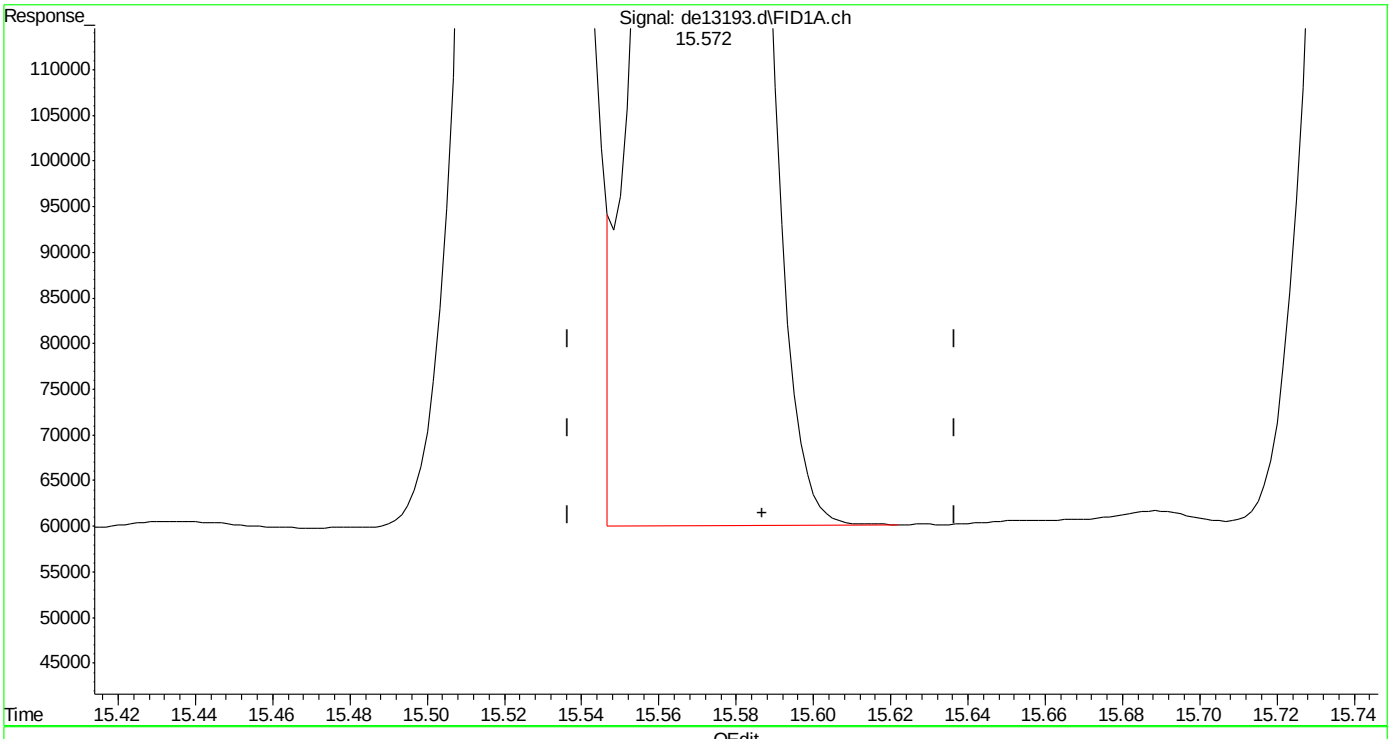
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.572min 5.000 µg/ml
response 468978

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:44:50 2016

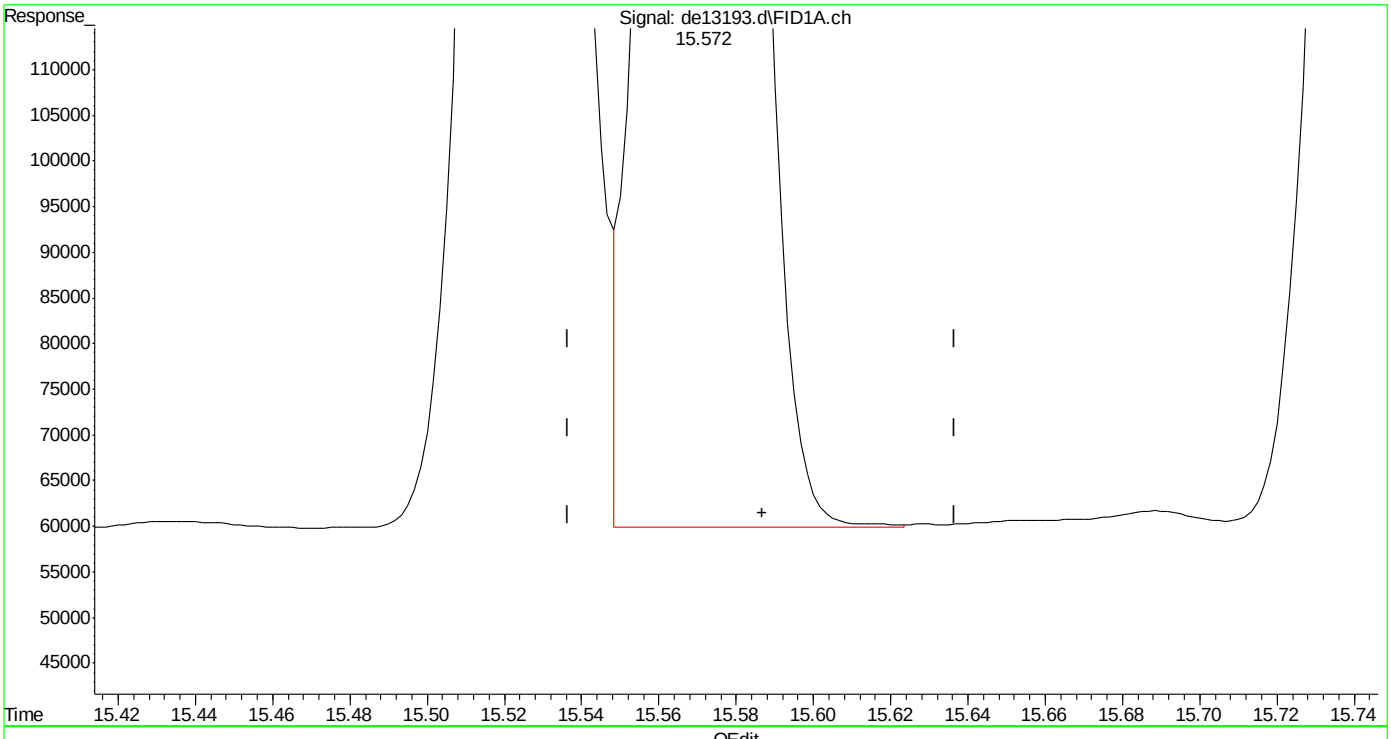
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.572min 4.975 µg/ml m
response 466623

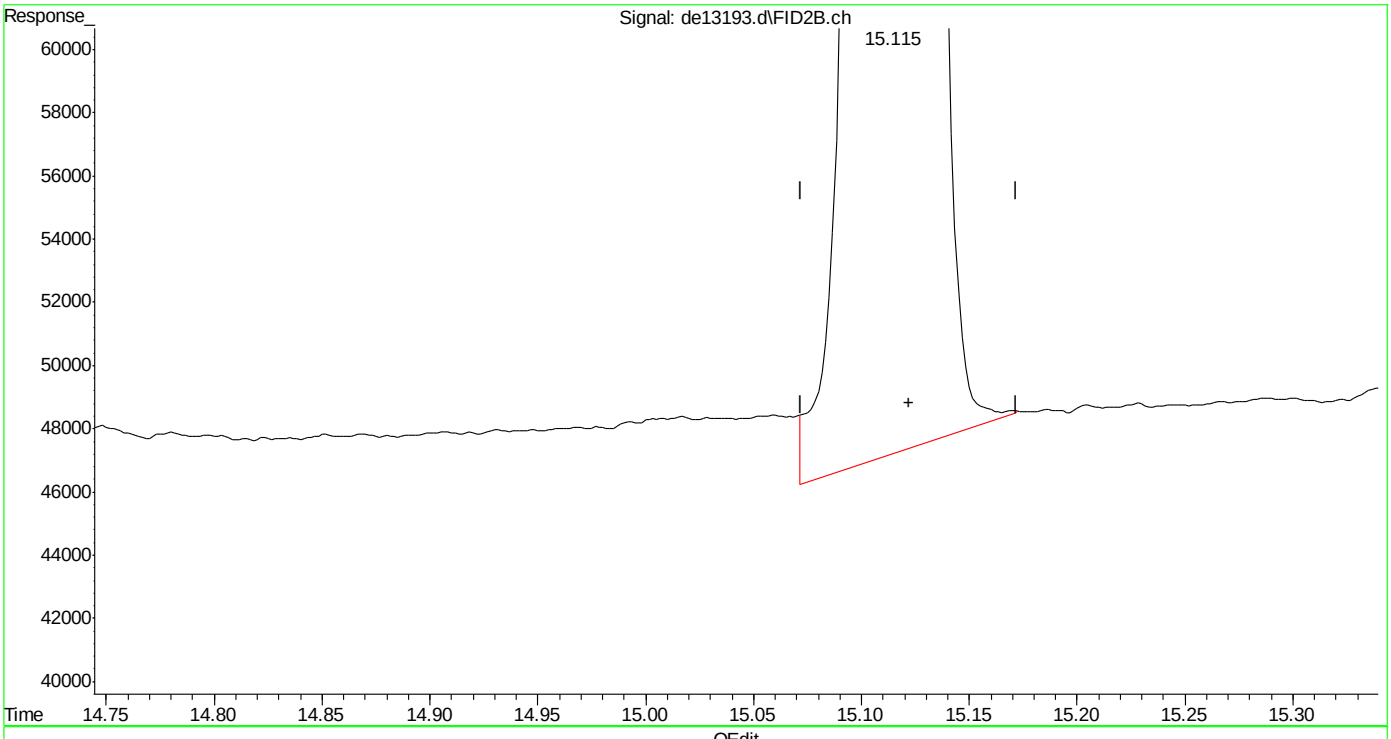
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 5.120 µg/ml
response 351498

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:46:01 2016

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	1923499	20.264 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 101.32%#		
6) s 2-bromonaphthalene	7.532	1318220	20.454 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 102.27%#		
11) s o-terphenyl	10.080	2144067	20.565 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 102.83%#		
35) s 1-chlorooctadecane	11.248	1182336	20.984 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 104.92%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36131366	22.235 µg/mlm
2) naphthalene	5.352	2162719	20.282 µg/ml
3) 2-methylnaphthalene	6.250	2136209	20.220 µg/ml
5) acenaphthylene	7.368	2106441	20.279 µg/ml
7) acenaphthene	7.610	2170607	20.454 µg/ml
8) fluorene	8.253	2130652	20.455 µg/ml
9) phenanthrene	9.437	2129143	20.500 µg/ml
10) anthracene	9.493	2038508	20.982 µg/ml
12) fluoranthene	10.945	2077039	20.389 µg/ml
13) pyrene	11.203	2089957	20.238 µg/ml
14) benzo(a)anthracene	12.763	2002764	20.461 µg/ml
15) chrysene	12.812	2022589	20.496 µg/ml
16) benzo(B)fluoranthene	14.060	2094779	20.856 µg/mlm
17) benzo(k)fluoranthene	14.090	1953249	20.187 µg/mlm
18) benzo(a)pyrene	14.395	1927552	20.332 µg/ml
19) indeno(1,2,3-cd)pyrene	15.532	1948257	19.991 µg/ml
20) dibenzo(ah)anthracene	15.577	1933263	20.726 µg/ml
21) benzo(ghi)perylene	15.753	1916075	20.362 µg/ml
25) h c-9	2.680	1587594	20.952 µg/mlm
26) h c-10	3.833	1597831	20.904 µg/ml
27) naphthalene #2	5.512	1701488	21.332 µg/ml
28) c-12	5.687	1581613	20.810 µg/ml
29) 2-methylnaphthalene #2	6.405	1698114	20.825 µg/ml
30) c-14	7.203	1563771	20.568 µg/ml
31) c-16	8.532	1537180	20.338 µg/ml
32) c-18	9.727	1515877	20.257 µg/ml
33) c-19	10.282	1500139	20.556 µg/ml
34) c-20	10.813	1468089	20.532 µg/ml
36) c-22	11.808	1451343	20.601 µg/ml
37) c-24	12.727	1351453	20.219 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.580	1435543	20.577	µg/ml
39)		c-28	14.373	1385739	20.519	µg/ml
40)	h	c-30	15.122	1377048	20.029	µg/mlm
41)	h	c-36	17.010	1222680	20.011	µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.4

9

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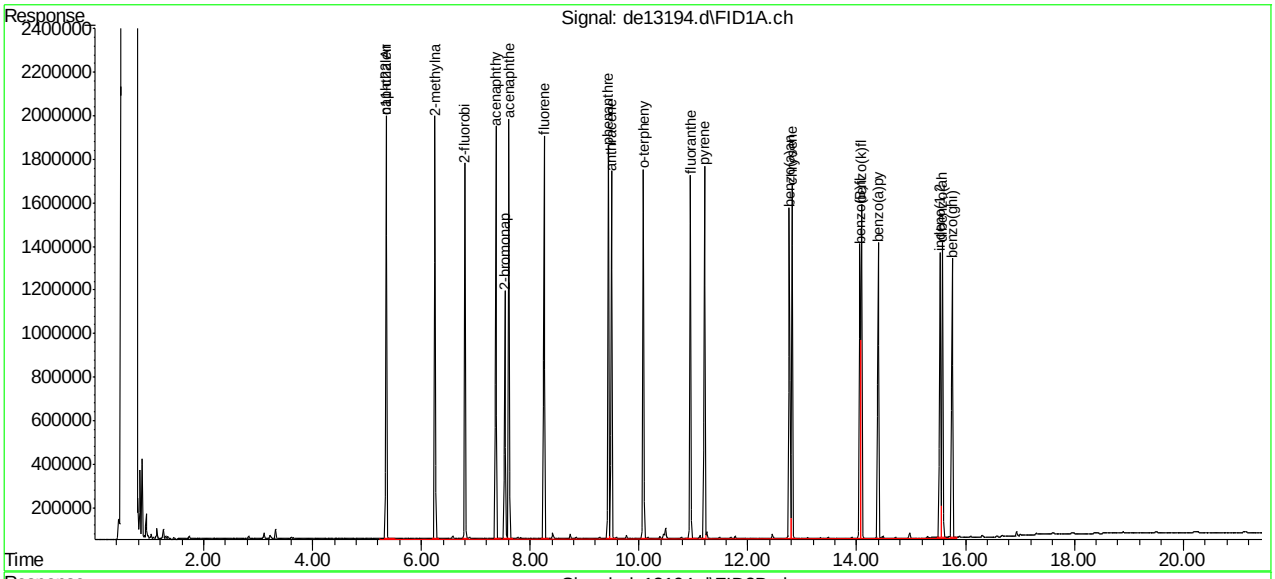
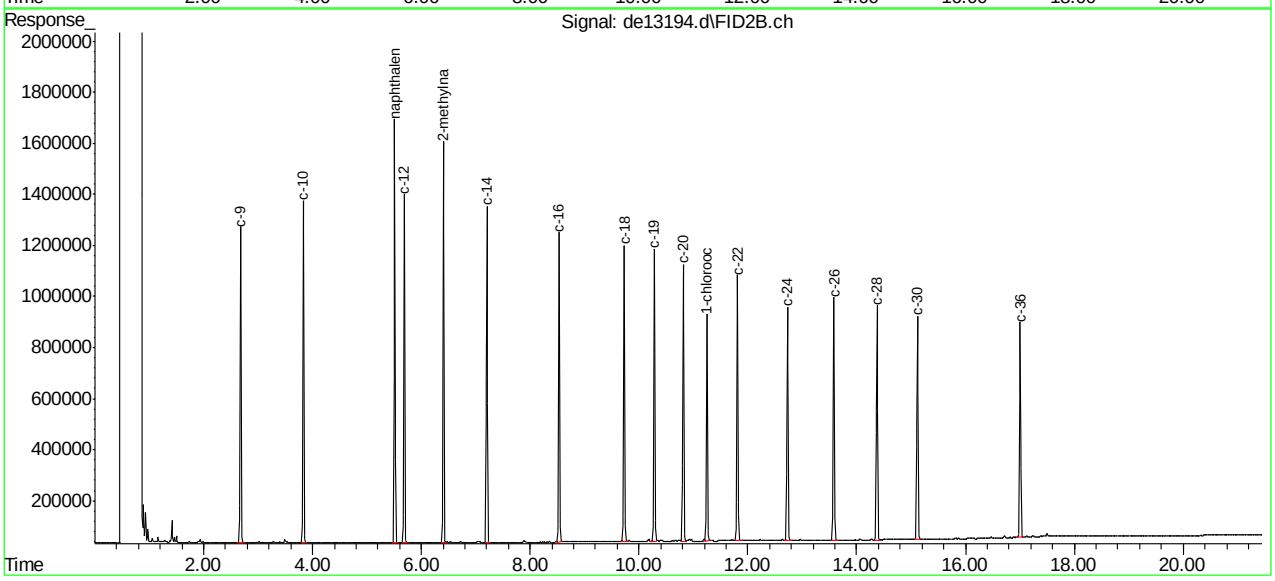
Quantitation Report (QT Reviewed)

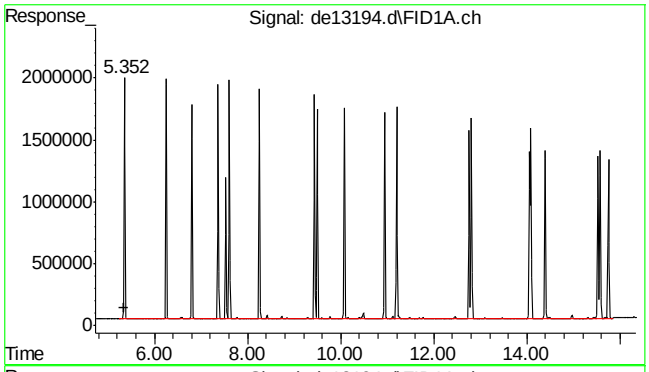
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

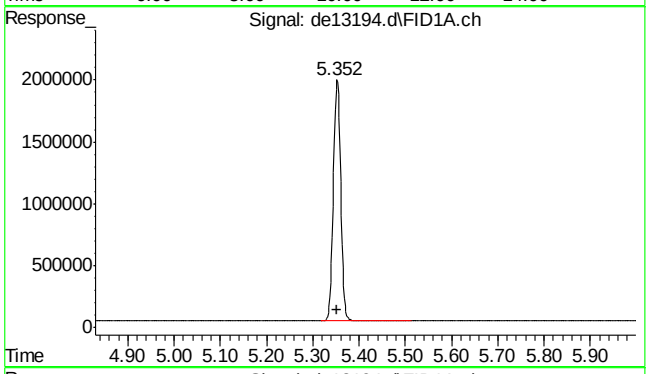






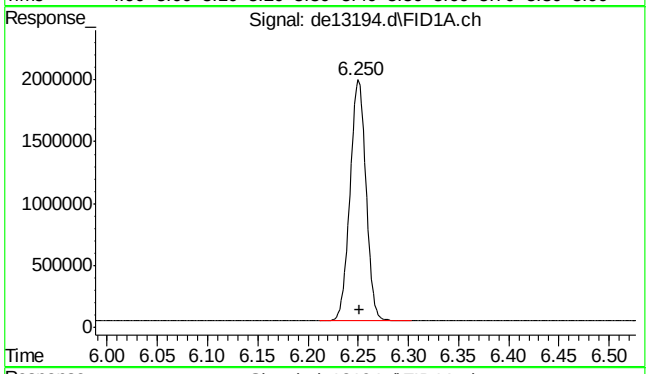
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36131366
Conc: 22.24 µg/ml m



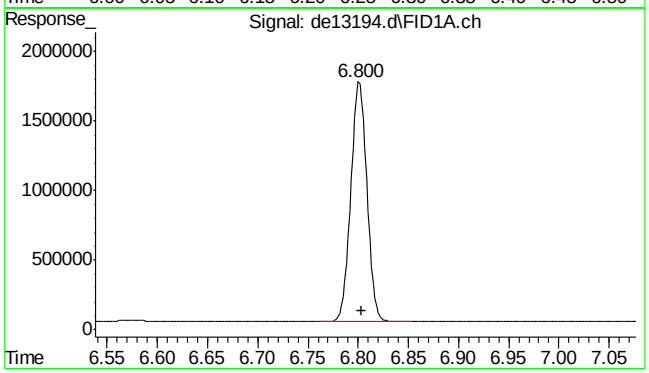
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 2162719
Conc: 20.28 µg/ml



#3 2-methylnaphthalene

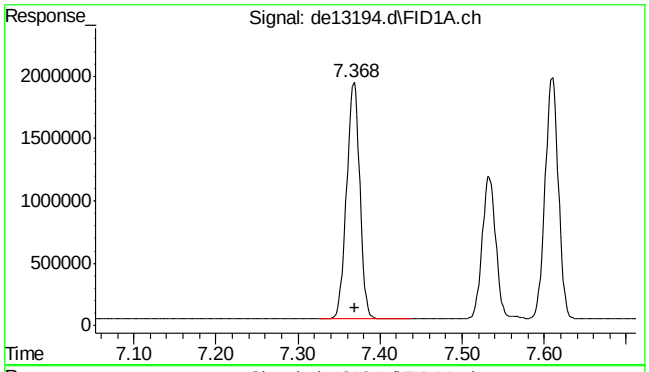
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 2136209
Conc: 20.22 µg/ml



#4 2-fluorobiphenyl

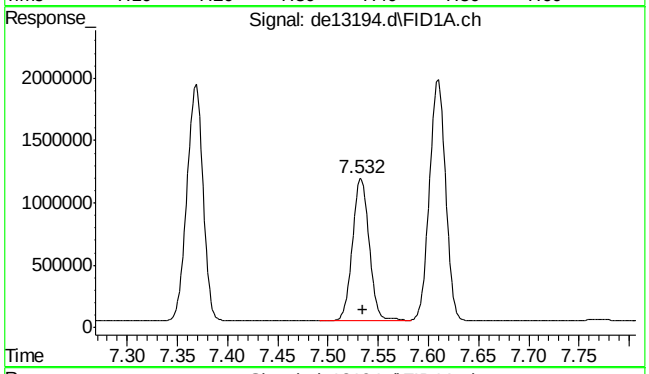
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 1923499
Conc: 20.26 µg/ml

SGS ACCUTEST MC45816A



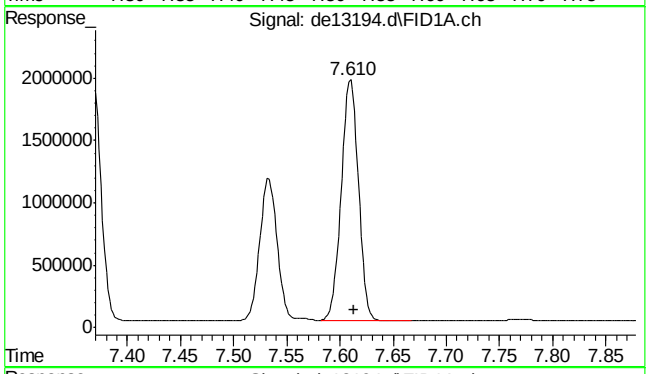
#5 acenaphthylene

R.T.: 7.368 min
Delta R.T.: -0.002 min
Response: 2106441
Conc: 20.28 µg/ml



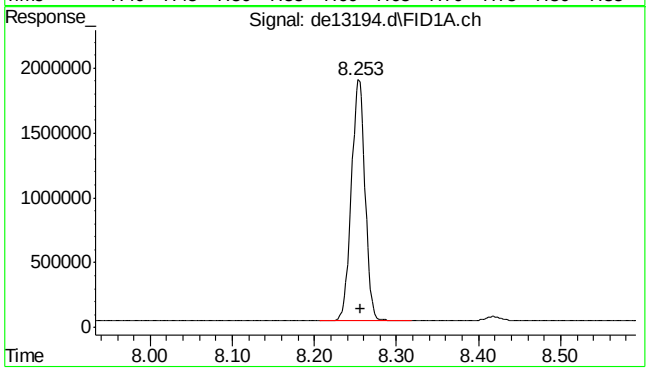
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 1318220
Conc: 20.45 µg/ml



#7 acenaphthene

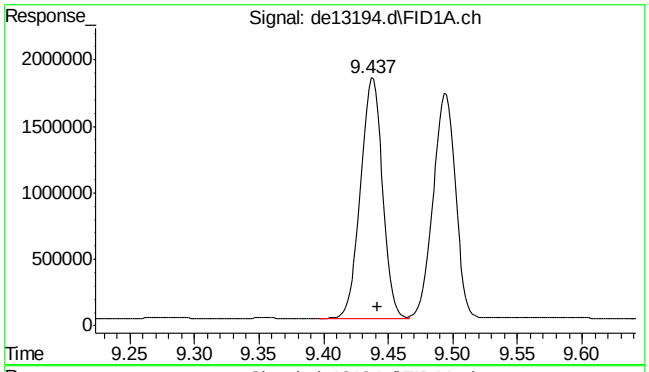
R.T.: 7.610 min
Delta R.T.: -0.003 min
Response: 2170607
Conc: 20.45 µg/ml



#8 fluorene

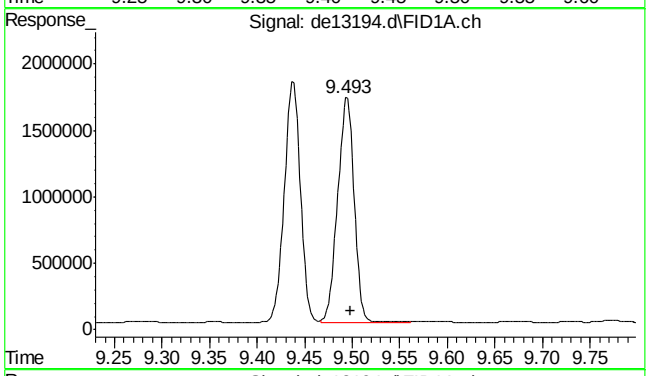
R.T.: 8.253 min
Delta R.T.: -0.003 min
Response: 2130652
Conc: 20.46 µg/ml

SGS ACCUTEST MC45816A



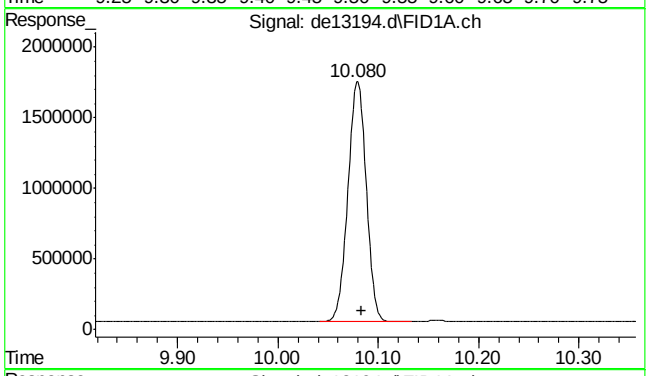
#9 phenanthrene

R.T.: 9.437 min
Delta R.T.: -0.005 min
Response: 2129143
Conc: 20.50 µg/ml



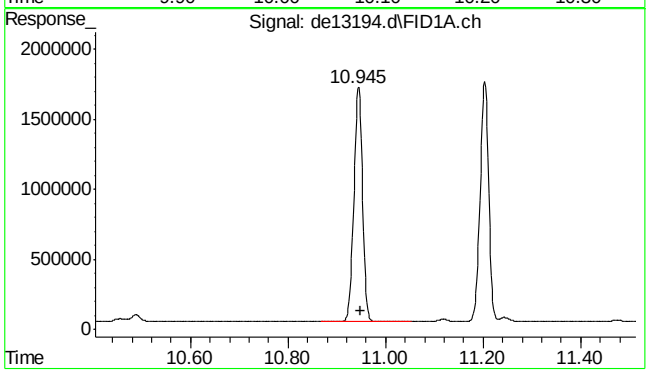
#10 anthracene

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 2038508
Conc: 20.98 µg/ml



#11 o-terphenyl

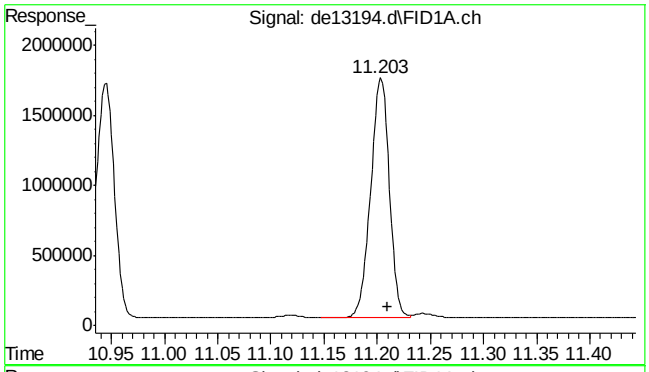
R.T.: 10.080 min
Delta R.T.: -0.003 min
Response: 2144067
Conc: 20.57 µg/ml



#12 fluoranthene

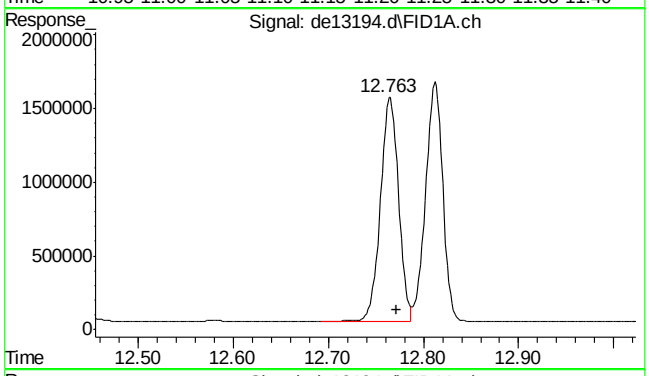
R.T.: 10.945 min
Delta R.T.: -0.003 min
Response: 2077039
Conc: 20.39 µg/ml

SGS ACCUTEST MC45816A



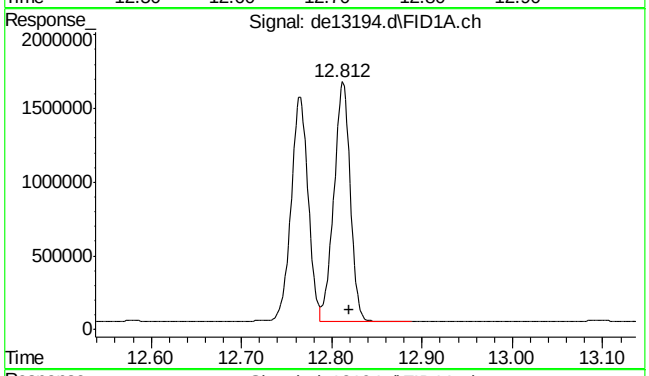
#13 pyrene

R.T.: 11.203 min
Delta R.T.: -0.007 min
Response: 2089957
Conc: 20.24 µg/ml



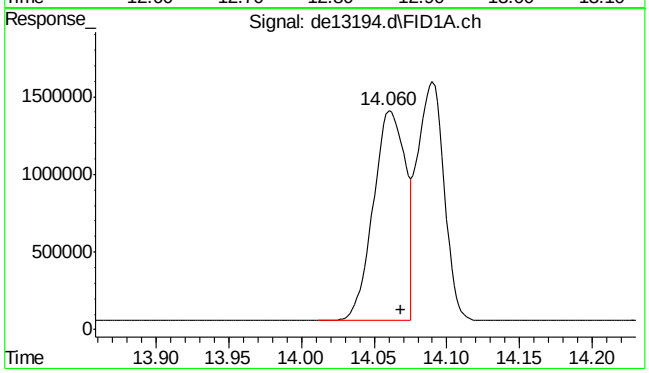
#14 benzo(a)anthracene

R.T.: 12.763 min
Delta R.T.: -0.008 min
Response: 2002764
Conc: 20.46 µg/ml



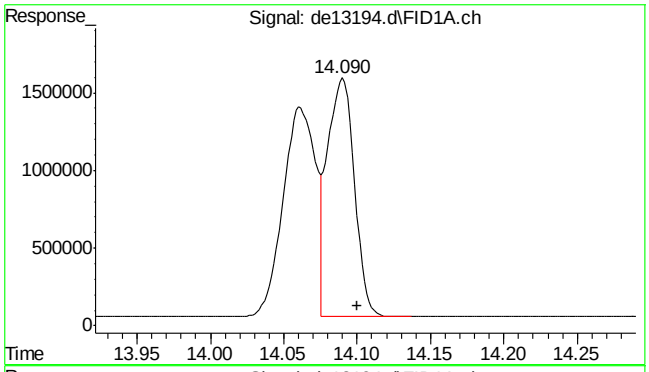
#15 chrysene

R.T.: 12.812 min
Delta R.T.: -0.008 min
Response: 2022589
Conc: 20.50 µg/ml



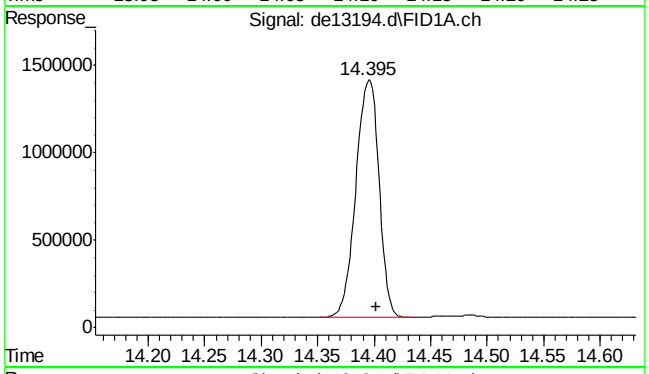
#16 benzo(B)fluoranthene

R.T.: 14.060 min
Delta R.T.: -0.008 min
Response: 2094779
Conc: 20.86 µg/ml m



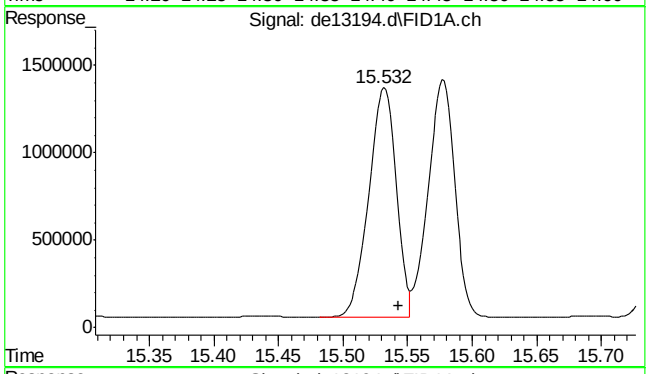
#17 benzo(k)fluoranthene

R.T.: 14.090 min
Delta R.T.: -0.010 min
Response: 1953249
Conc: 20.19 µg/ml m



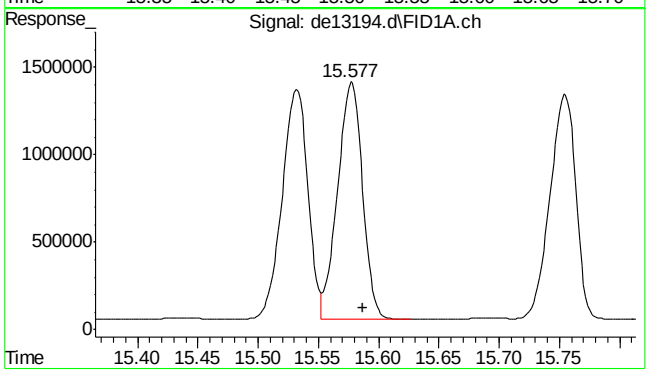
#18 benzo(a)pyrene

R.T.: 14.395 min
Delta R.T.: -0.007 min
Response: 1927552
Conc: 20.33 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.532 min
Delta R.T.: -0.012 min
Response: 1948257
Conc: 19.99 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.577 min
Delta R.T.: -0.010 min
Response: 1933263
Conc: 20.73 µg/ml

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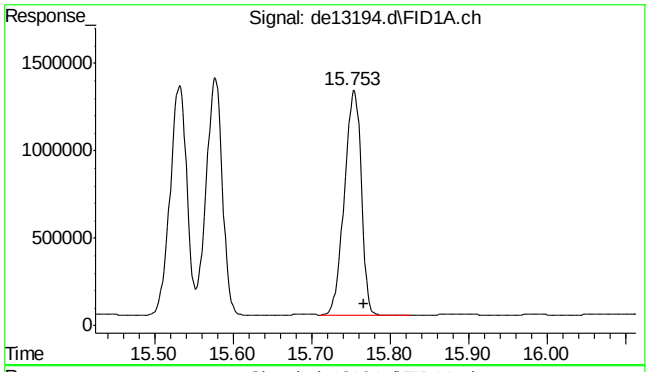
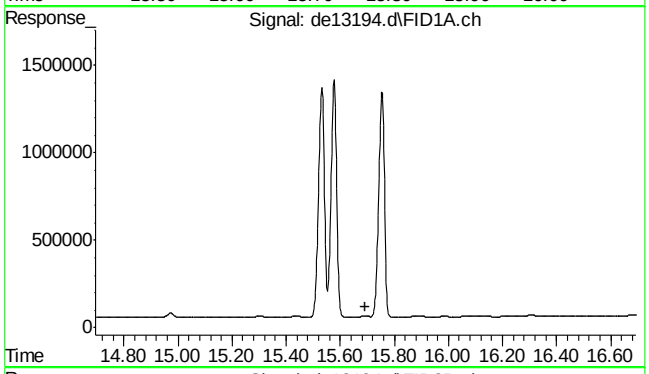


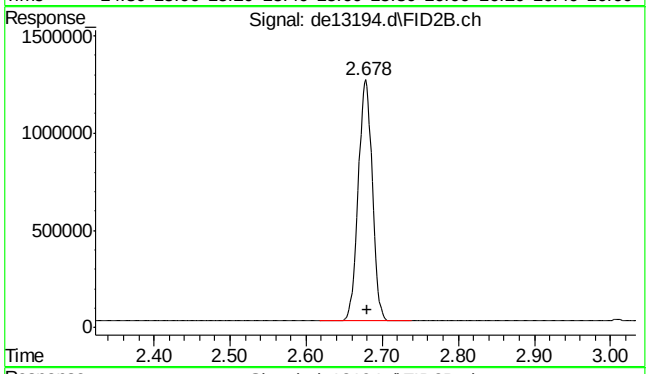
#21 benzo(ghi)perylene

R.T.: 15.753 min
Delta R.T.: -0.013 min
Response: 1916075
Conc: 20.36 µg/ml



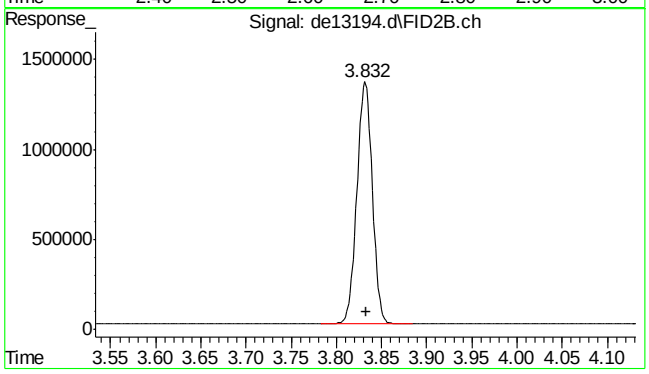
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 1587594
Conc: 20.95 µg/ml m



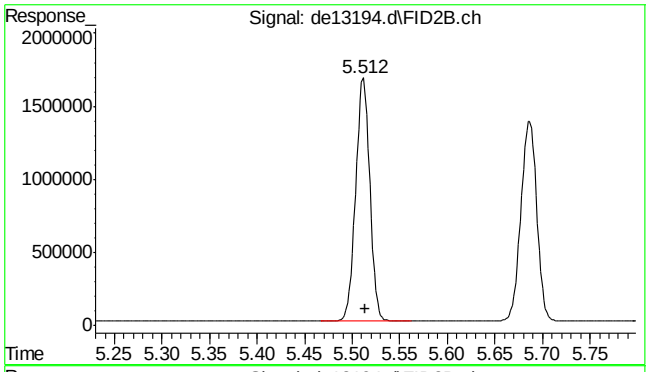
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 1597831
Conc: 20.90 µg/ml

9.5.4

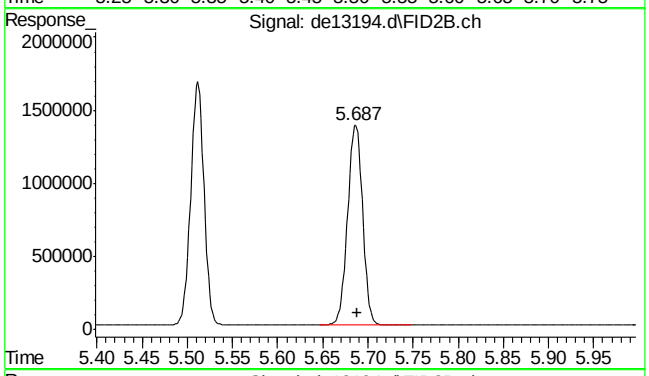
9

SGS ACCUTEST MC45816A



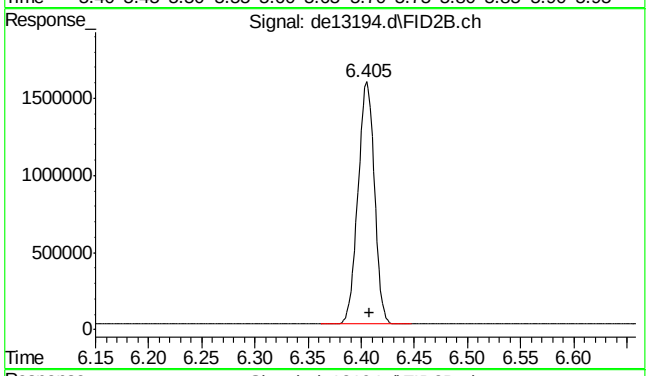
#27 naphthalene #2

R.T.: 5.512 min
Delta R.T.: -0.002 min
Response: 1701488
Conc: 21.33 µg/ml



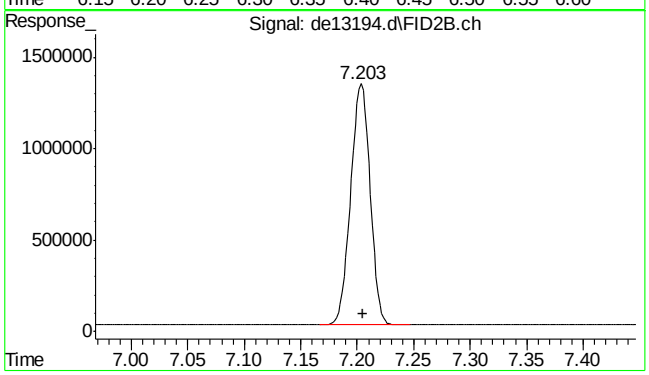
#28 c-12

R.T.: 5.687 min
Delta R.T.: -0.002 min
Response: 1581613
Conc: 20.81 µg/ml



#29 2-methylnaphthalene #2

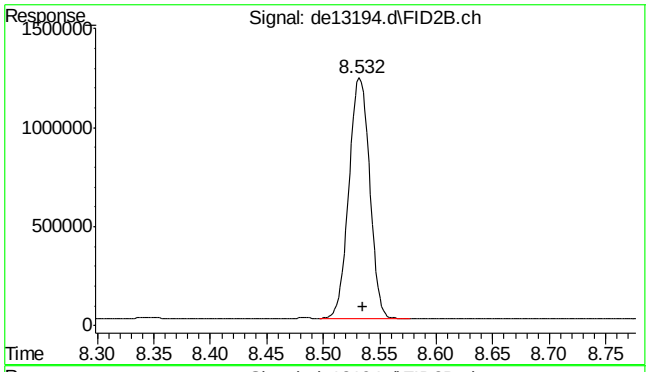
R.T.: 6.405 min
Delta R.T.: -0.003 min
Response: 1698114
Conc: 20.83 µg/ml



#30 c-14

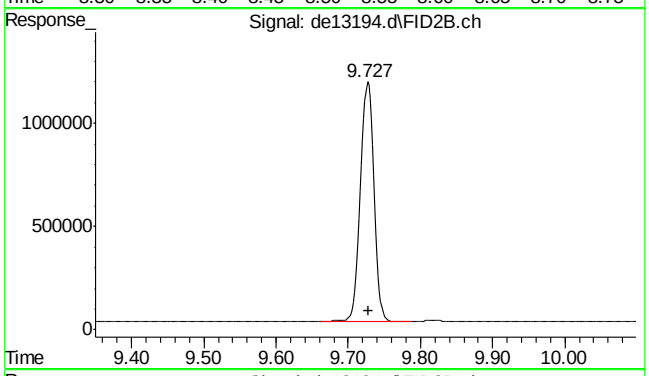
R.T.: 7.203 min
Delta R.T.: -0.002 min
Response: 1563771
Conc: 20.57 µg/ml

SGS ACCUTEST MC45816A



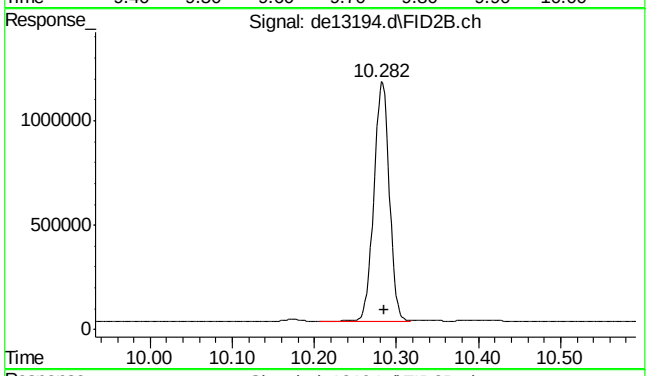
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 1537180
Conc: 20.34 µg/ml



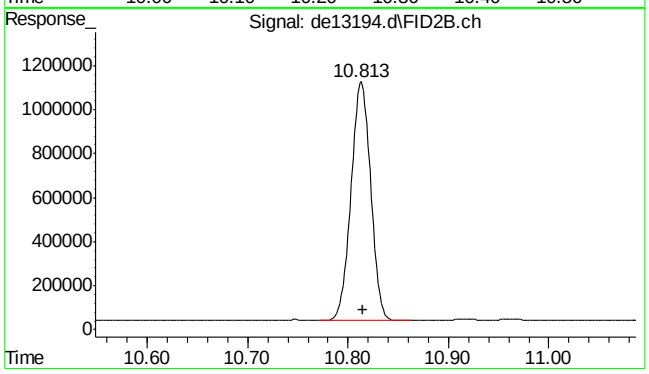
#32 c-18

R.T.: 9.727 min
Delta R.T.: -0.002 min
Response: 1515877
Conc: 20.26 µg/ml



#33 c-19

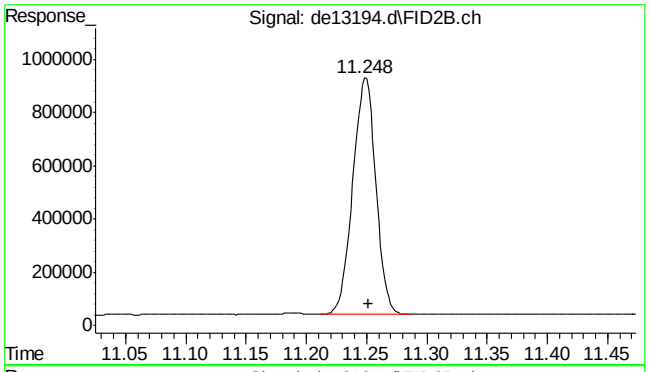
R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 1500139
Conc: 20.56 µg/ml



#34 c-20

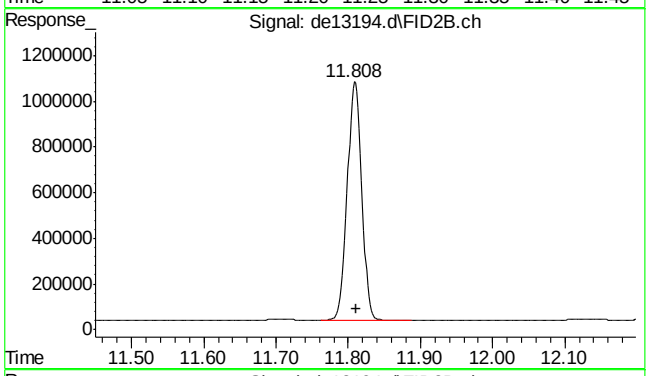
R.T.: 10.813 min
Delta R.T.: -0.002 min
Response: 1468089
Conc: 20.53 µg/ml

SGS ACCUTEST MC45816A



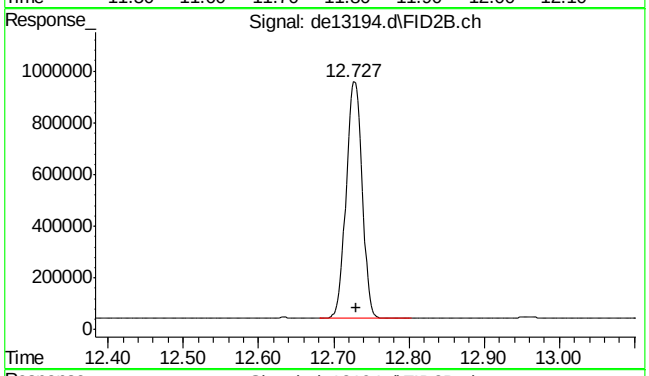
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 1182336
Conc: 20.98 µg/ml



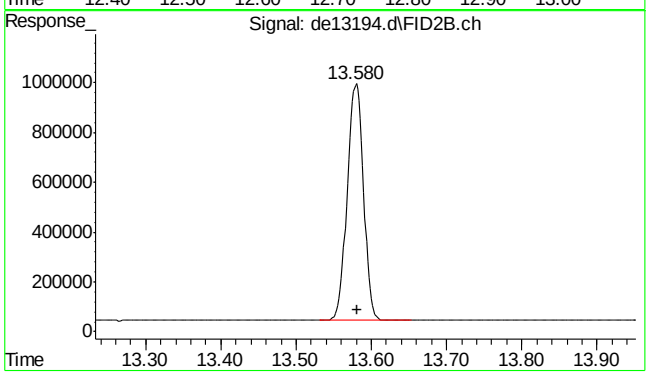
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 1451343
Conc: 20.60 µg/ml



#37 c-24

R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 1351453
Conc: 20.22 µg/ml



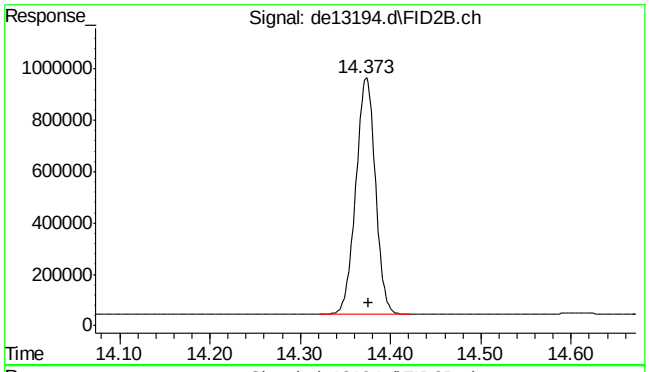
#38 c-26

R.T.: 13.580 min
Delta R.T.: -0.002 min
Response: 1435543
Conc: 20.58 µg/ml

9.5.4

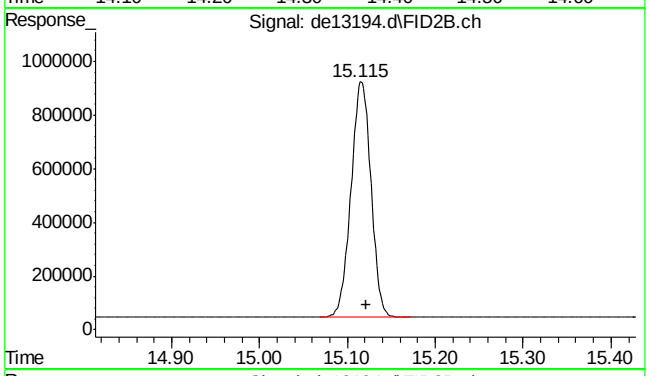
9

SGS ACCUTEST MC45816A



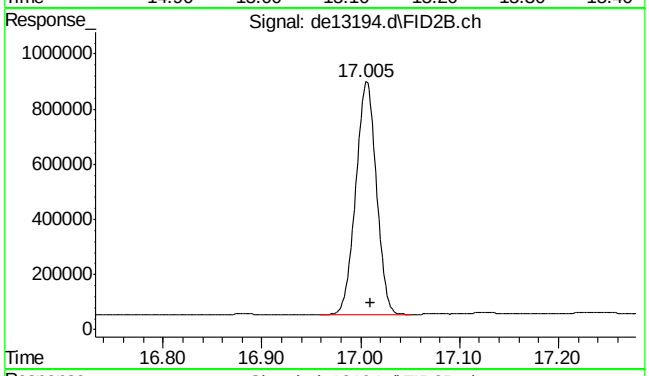
#39 c-28

R.T.: 14.373 min
Delta R.T.: -0.002 min
Response: 1385739
Conc: 20.52 µg/ml



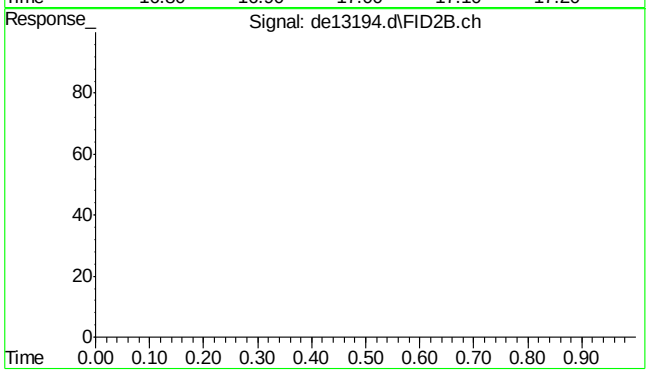
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 1377048
Conc: 20.03 µg/ml m



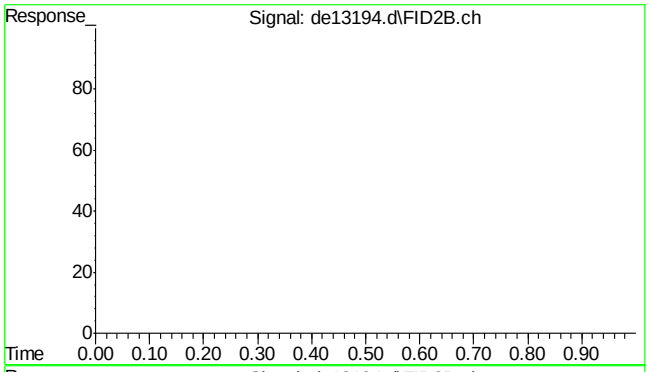
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 1222680
Conc: 20.01 µg/ml m



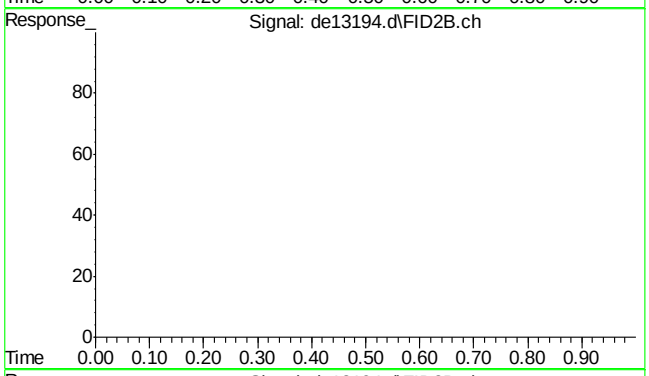
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



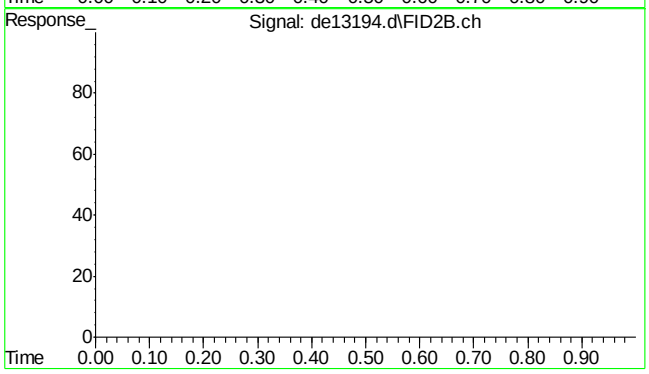
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

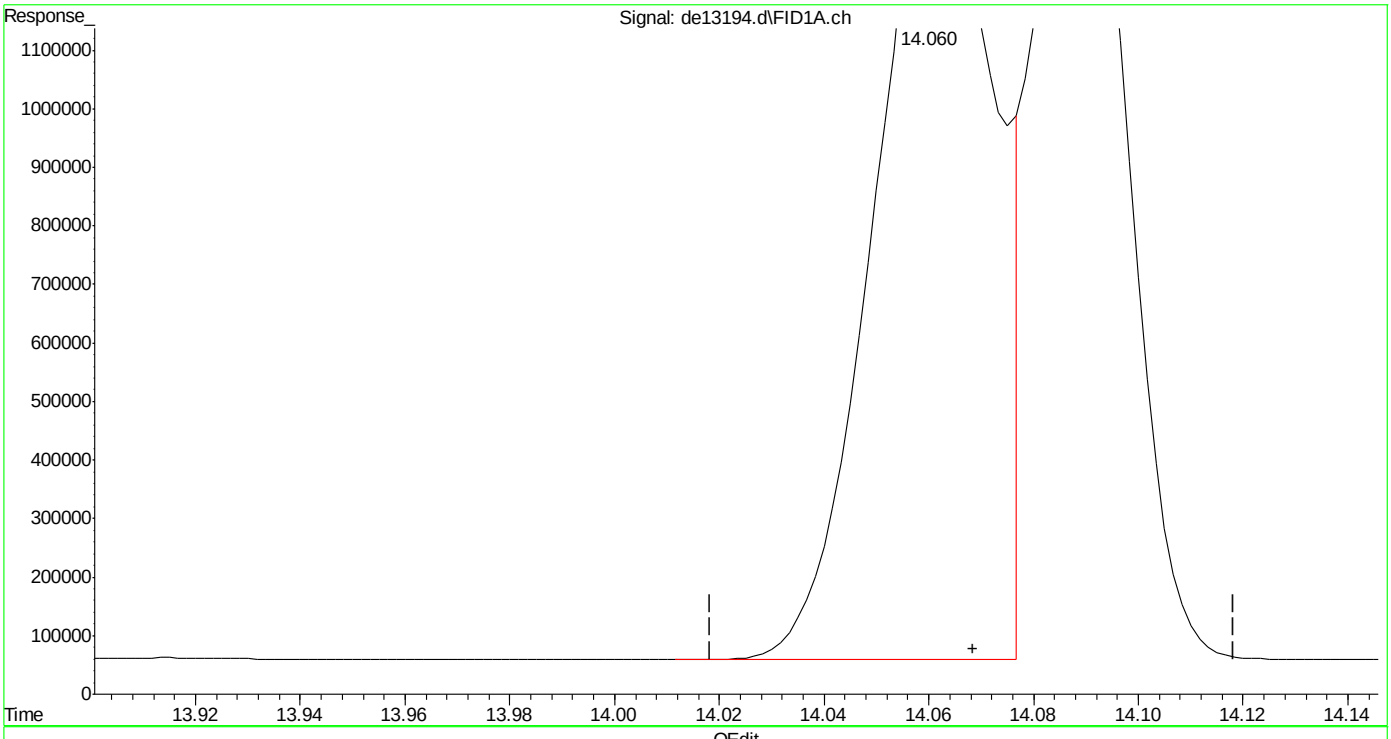
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.060min 21.786 µg/ml
response 2188193

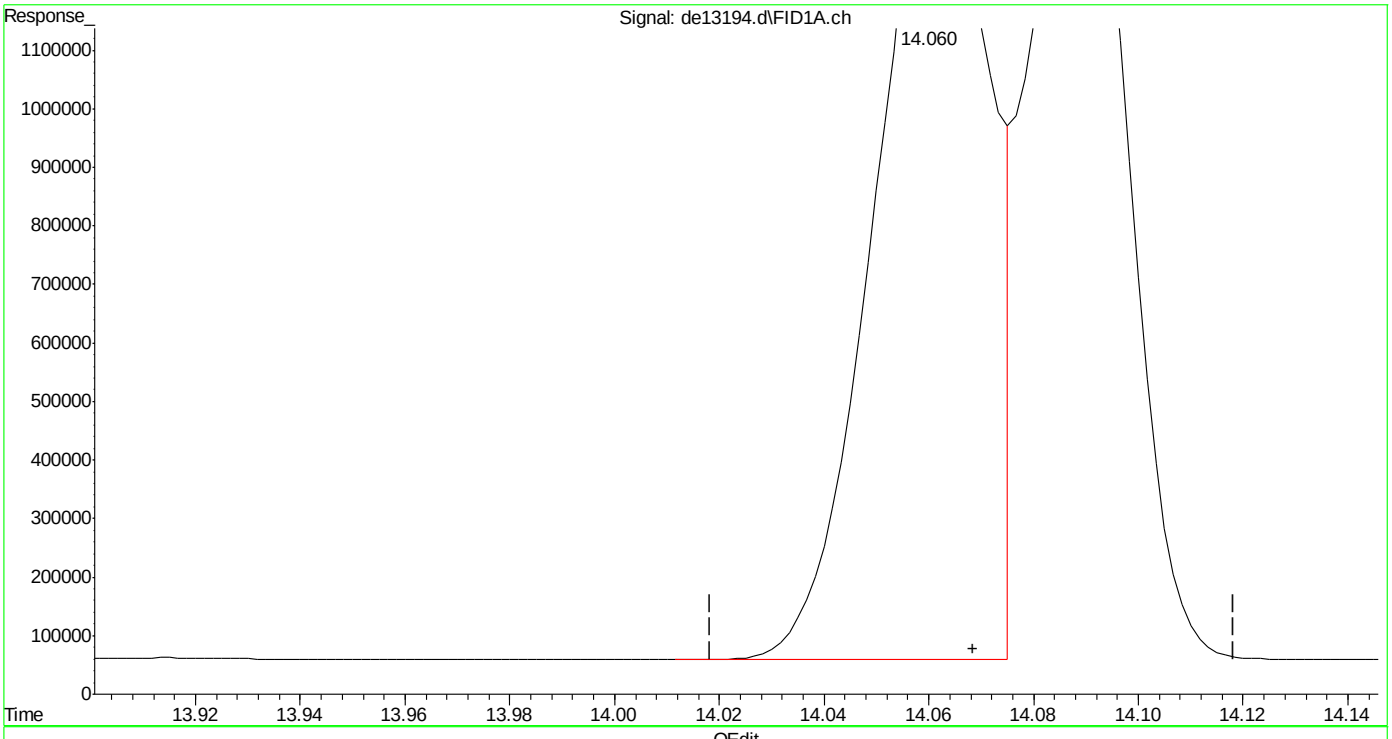
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.060min 20.856 µg/ml m
response 2094779

(+) = Expected Retention Time

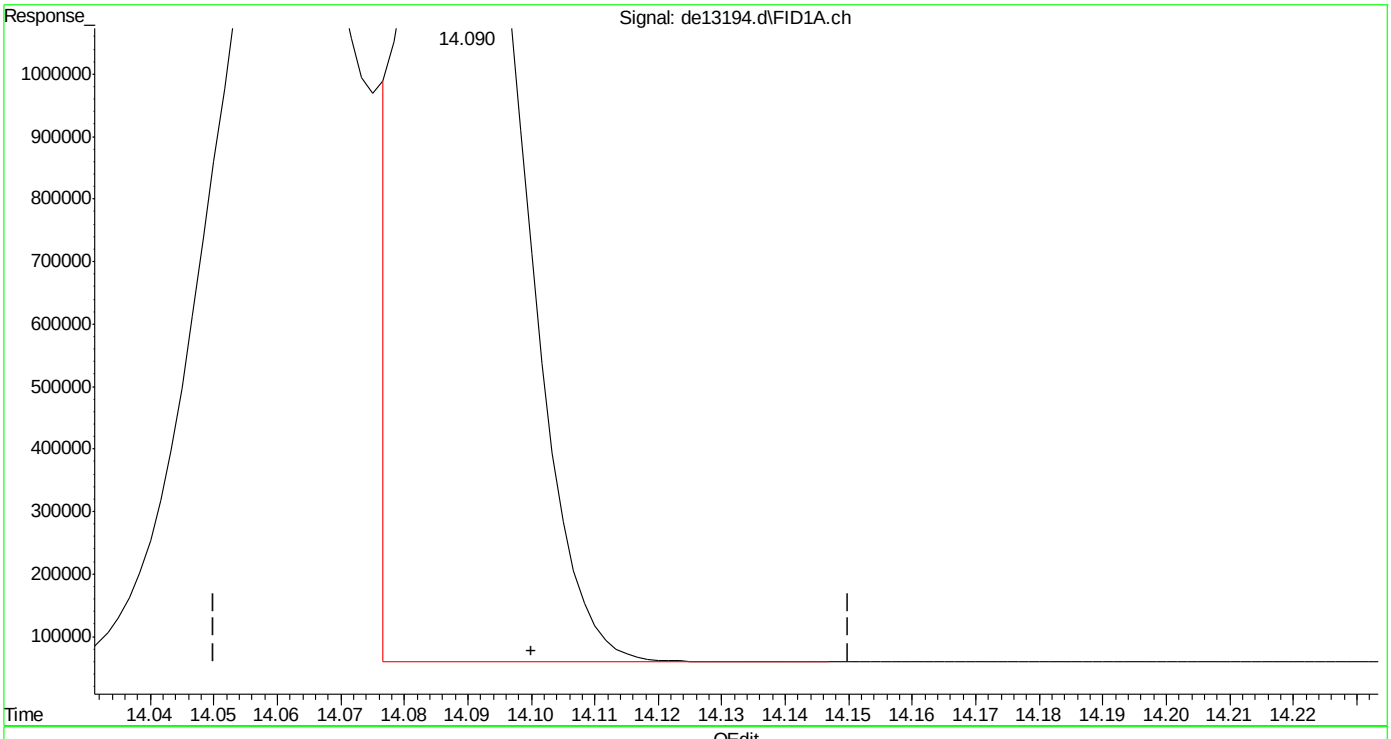
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.090min 19.228 µg/ml
response 1860456

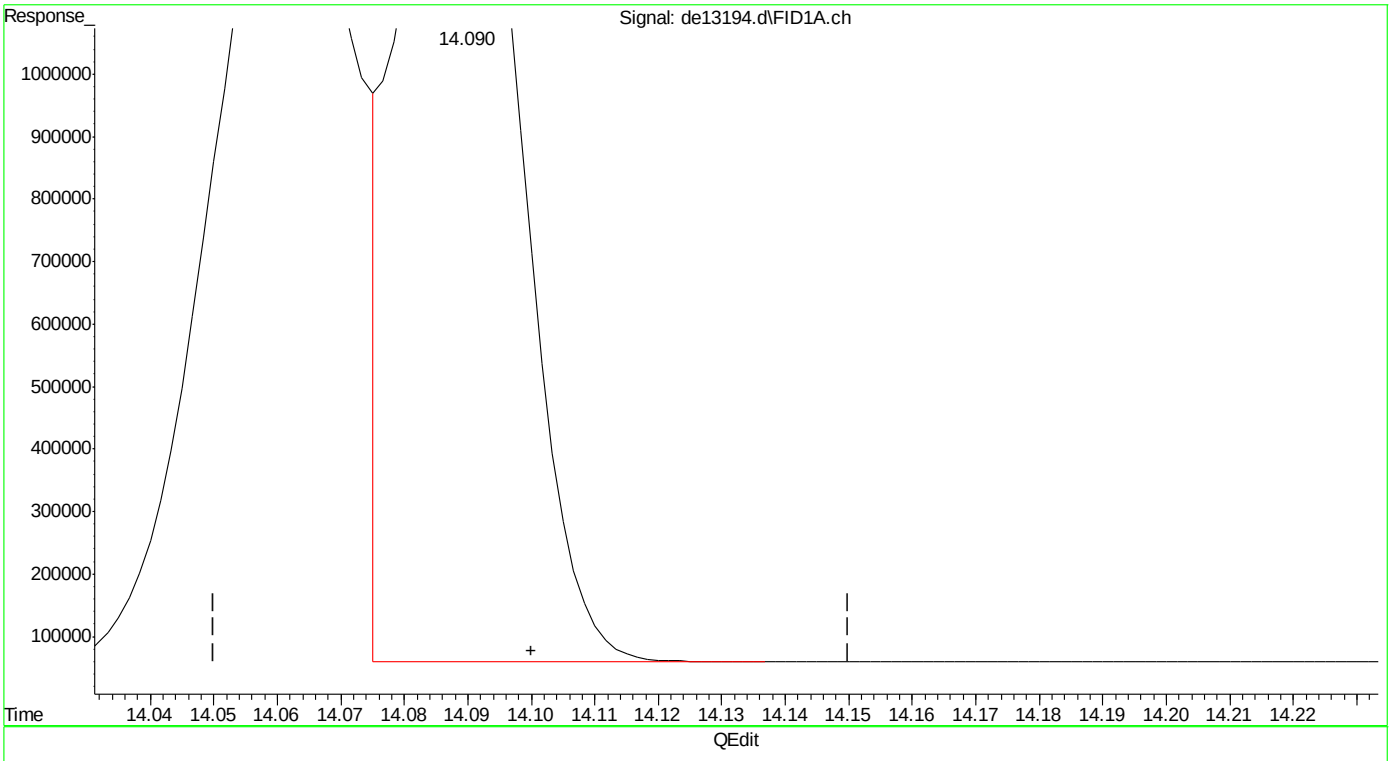
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.090min 20.187 µg/ml m
response 1953249

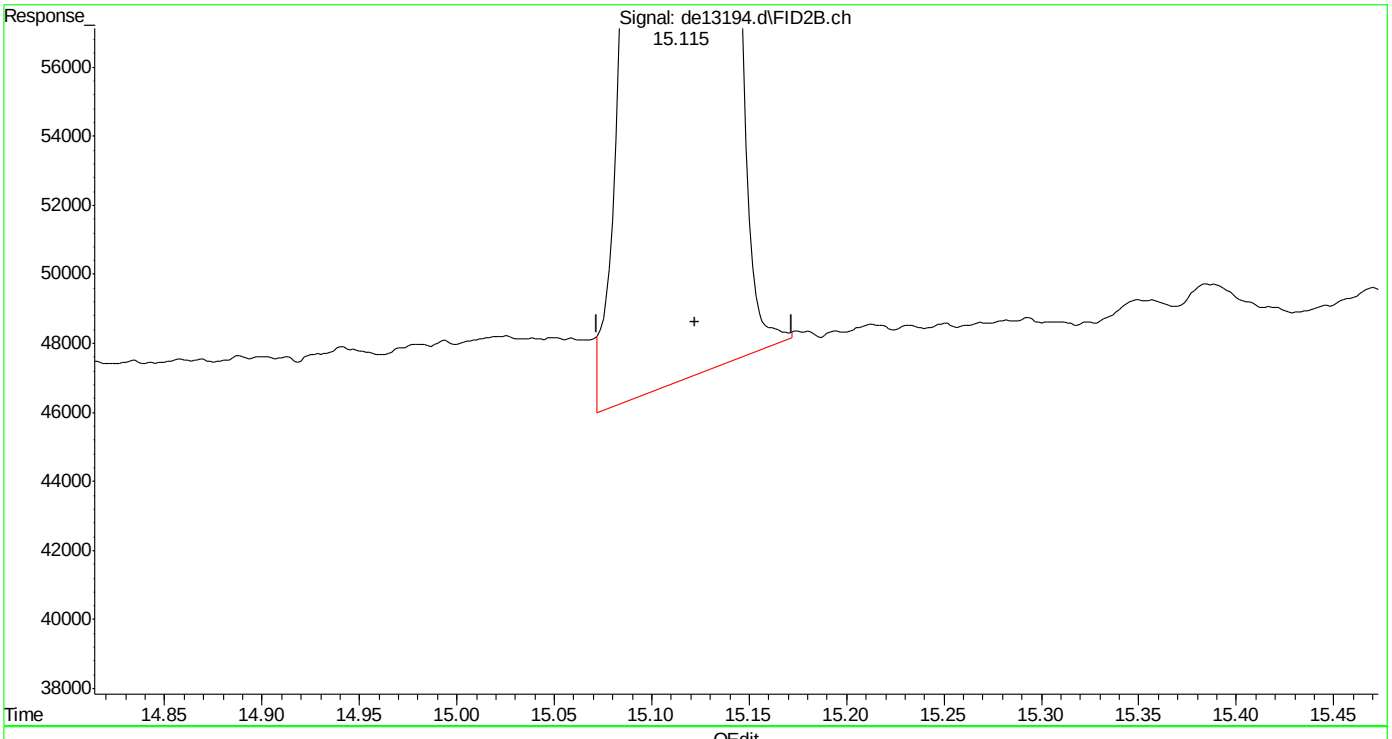
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 20.114 µg/ml
response 1382917

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.803	4755859	50.970 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 254.85%#		
6) s 2-bromonaphthalene	7.535	3250284	51.239 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 256.19%#		
11) s o-terphenyl	10.083	5257542	50.987 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 254.94%#		
35) s 1-chlorooctadecane	11.252	2679754	47.467 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 237.33%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	87424928	52.817 µg/mlm
2) naphthalene	5.353	5345223	51.089 µg/ml
3) 2-methylnaphthalene	6.252	5287222	50.952 µg/ml
5) acenaphthylene	7.370	5189849	50.857 µg/ml
7) acenaphthene	7.613	5354326	51.245 µg/ml
8) fluorene	8.257	5242546	51.074 µg/ml
9) phenanthrene	9.442	5223164	50.912 µg/ml
10) anthracene	9.498	4970359	51.417 µg/ml
12) fluoranthene	10.948	5079973	50.440 µg/ml
13) pyrene	11.210	5123787	50.161 µg/ml
14) benzo(a)anthracene	12.772	4883350	50.327 µg/ml
15) chrysene	12.820	4951740	50.659 µg/ml
16) benzo(B)fluoranthene	14.068	4980192	49.821 µg/ml
17) benzo(k)fluoranthene	14.100	4922694	51.393 µg/ml
18) benzo(a)pyrene	14.402	4724847	50.445 µg/ml
19) indeno(1,2,3-cd)pyrene	15.543	4854725	50.326 µg/mlm
20) dibenzo(ah)anthracene	15.587	4685536	50.795 µg/mlm
21) benzo(ghi)perylene	15.767	4705124	50.470 µg/ml
25) h c-9	2.680	3541836	46.375 µg/mlm
26) h c-10	3.833	3570776	46.367 µg/ml
27) naphthalene #2	5.513	3805435	47.627 µg/ml
28) c-12	5.688	3545795	46.341 µg/ml
29) 2-methylnaphthalene #2	6.408	3803724	46.794 µg/ml
30) c-14	7.205	3516096	46.029 µg/ml
31) c-16	8.535	3450251	45.521 µg/ml
32) c-18	9.728	3414559	45.531 µg/ml
33) c-19	10.285	3383527	46.150 µg/ml
34) c-20	10.815	3319667	46.221 µg/ml
36) c-22	11.812	3288115	46.440 µg/ml
37) c-24	12.730	3065680	45.782 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.582	3260990	46.520	µg/ml
39)		c-28	14.375	3155644	46.526	µg/ml
40)	h	c-30	15.122	3152151	45.837	µg/ml
41)	h	c-36	17.010	2883025	47.180	µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.5

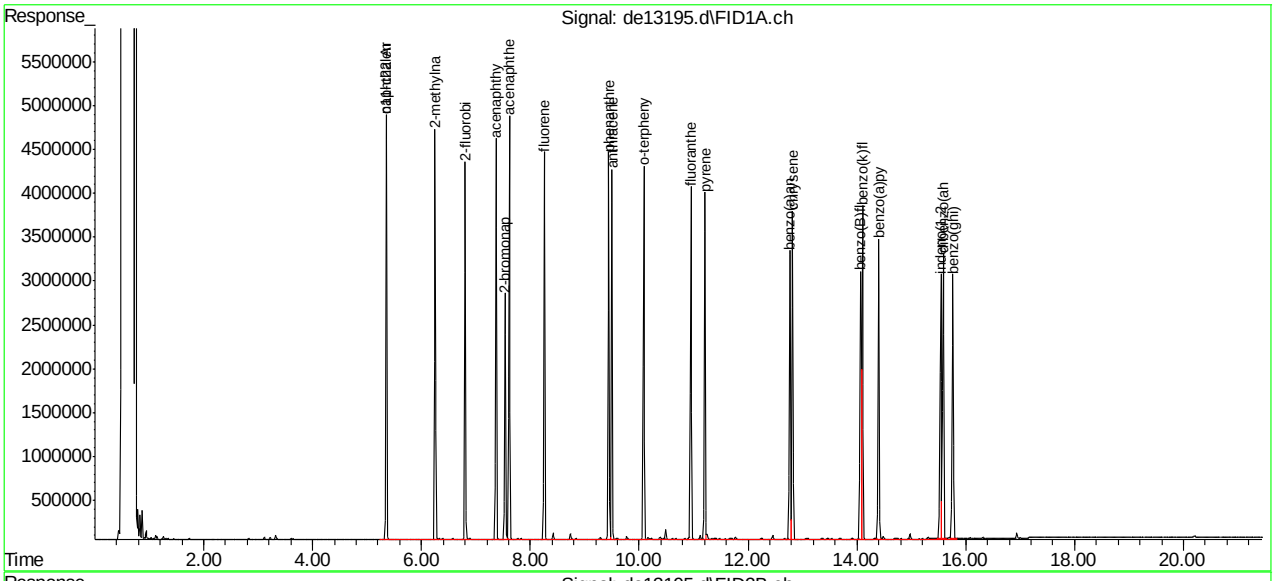
9

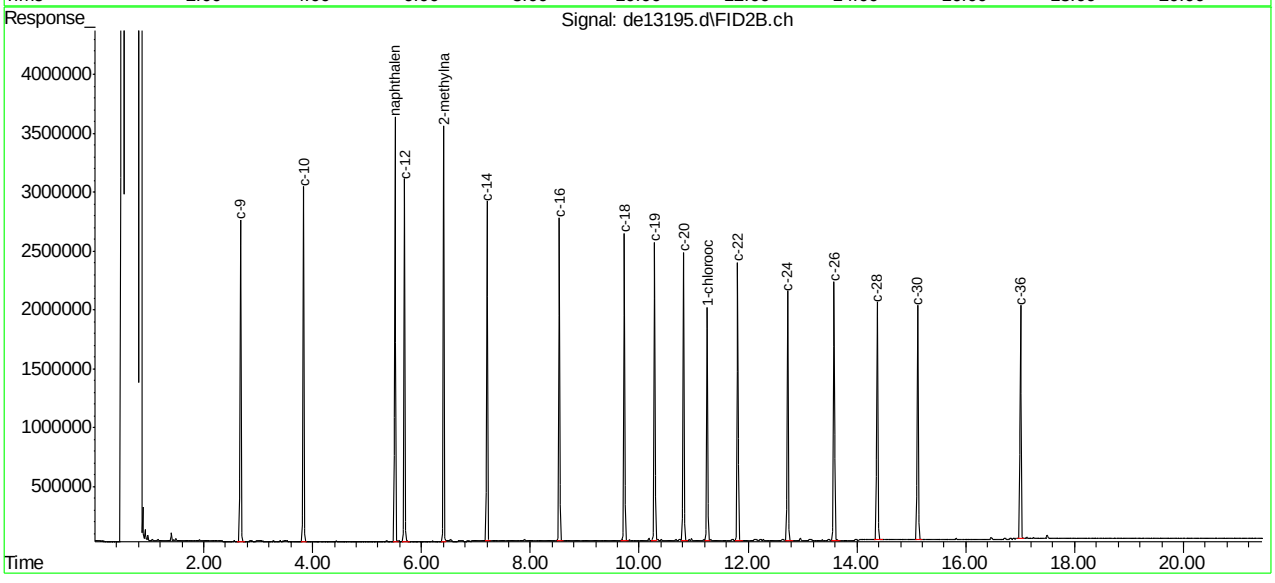
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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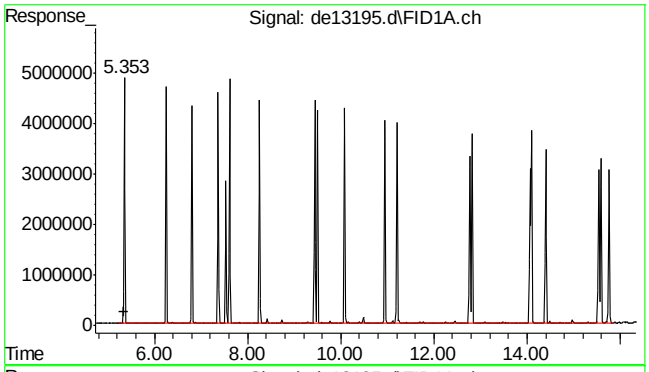
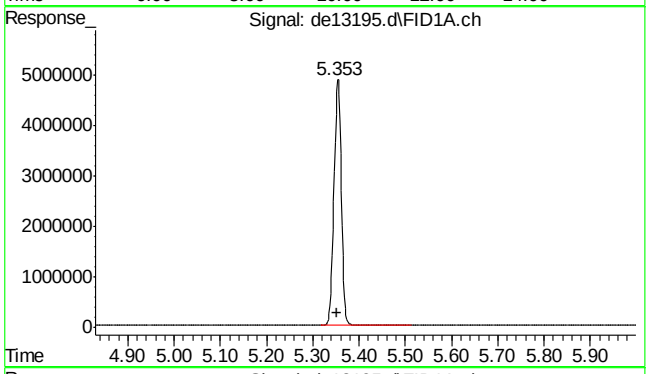


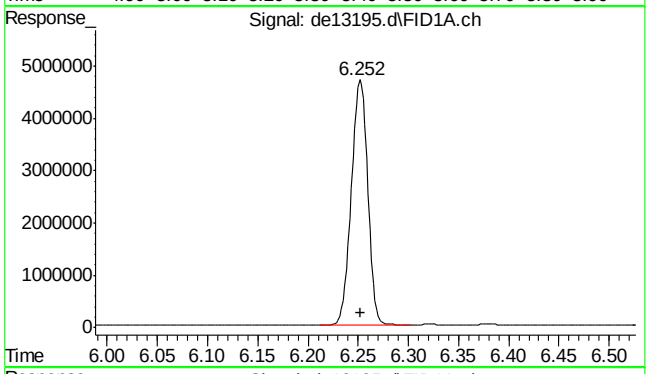
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 87424928
Conc: 52.82 µg/ml m



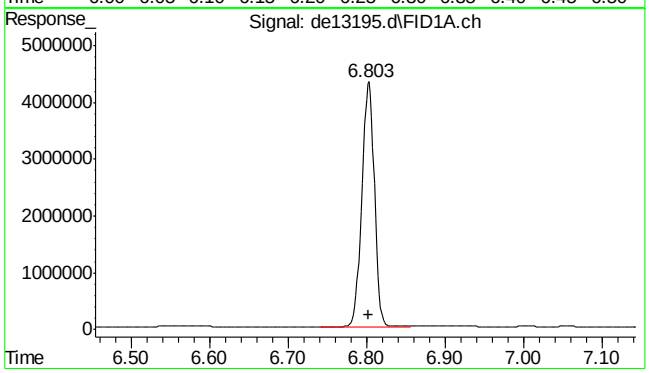
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 5345223
Conc: 51.09 µg/ml



#3 2-methylnaphthalene

R.T.: 6.252 min
Delta R.T.: 0.000 min
Response: 5287222
Conc: 50.95 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.803 min
Delta R.T.: 0.000 min
Response: 4755859
Conc: 50.97 µg/ml

9.5.5

9

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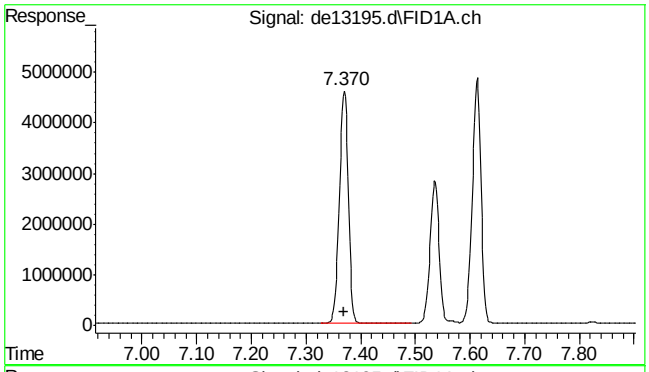
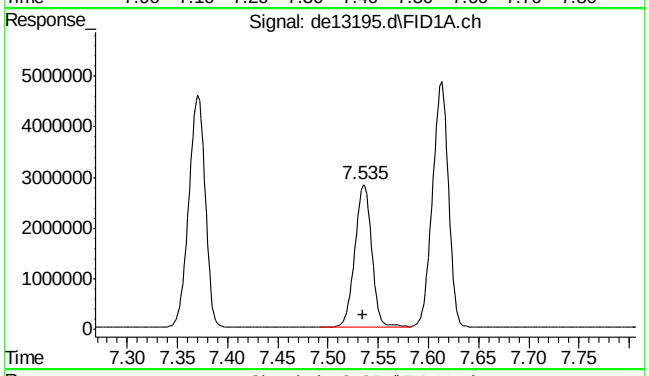


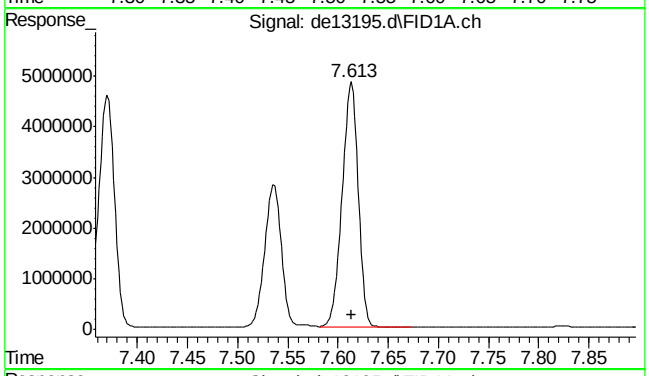
#5 acenaphthylene

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 5189849
Conc: 50.86 µg/ml



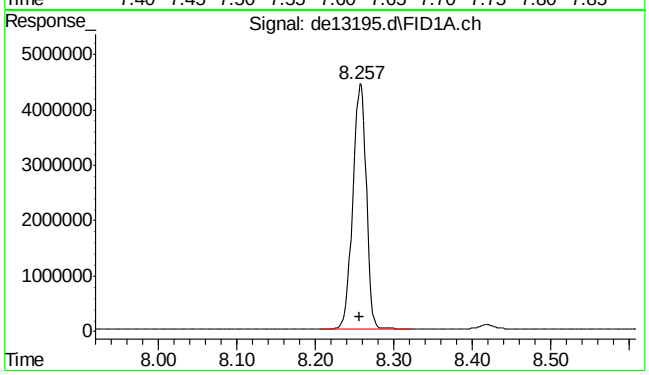
#6 2-bromonaphthalene

R.T.: 7.535 min
Delta R.T.: 0.000 min
Response: 3250284
Conc: 51.24 µg/ml



#7 acenaphthene

R.T.: 7.613 min
Delta R.T.: 0.000 min
Response: 5354326
Conc: 51.25 µg/ml



#8 fluorene

R.T.: 8.257 min
Delta R.T.: 0.000 min
Response: 5242546
Conc: 51.07 µg/ml

9.5.5

9

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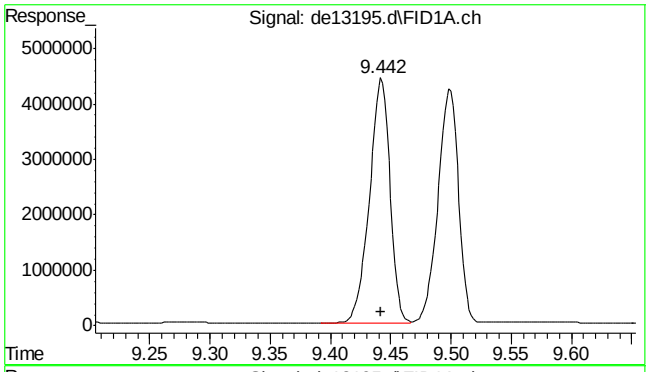
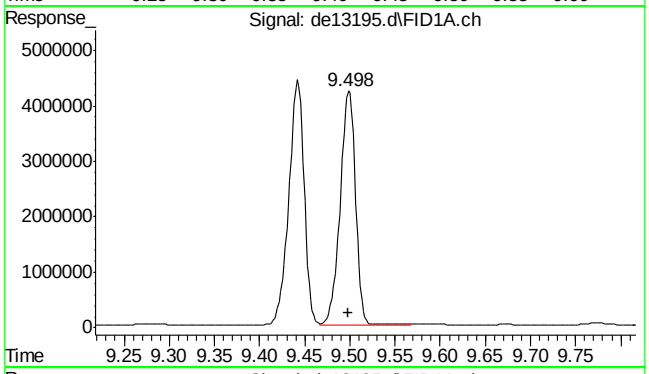


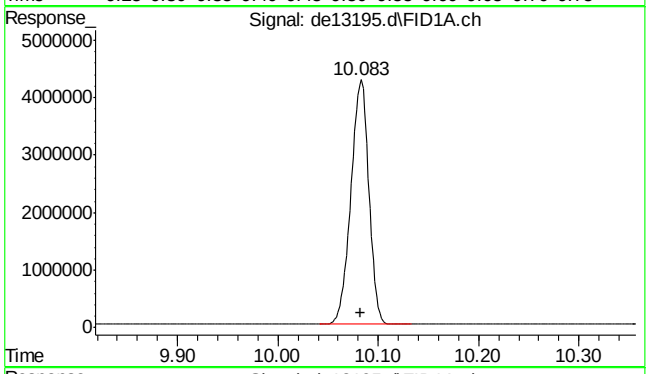
#9 phenanthrene

R.T.: 9.442 min
Delta R.T.: 0.000 min
Response: 5223164
Conc: 50.91 µg/ml



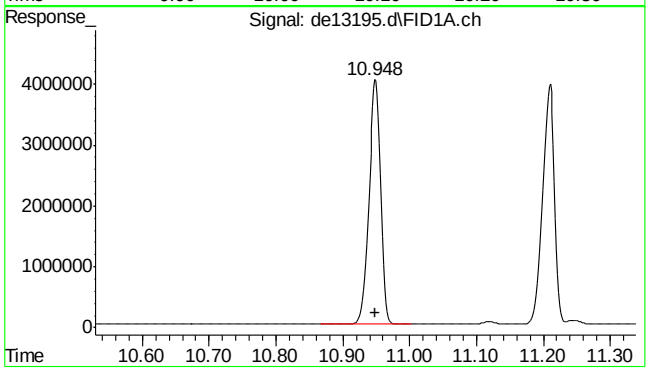
#10 anthracene

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 4970359
Conc: 51.42 µg/ml



#11 o-terphenyl

R.T.: 10.083 min
Delta R.T.: 0.000 min
Response: 5257542
Conc: 50.99 µg/ml



#12 fluoranthene

R.T.: 10.948 min
Delta R.T.: 0.000 min
Response: 5079973
Conc: 50.44 µg/ml

9.5.5

9

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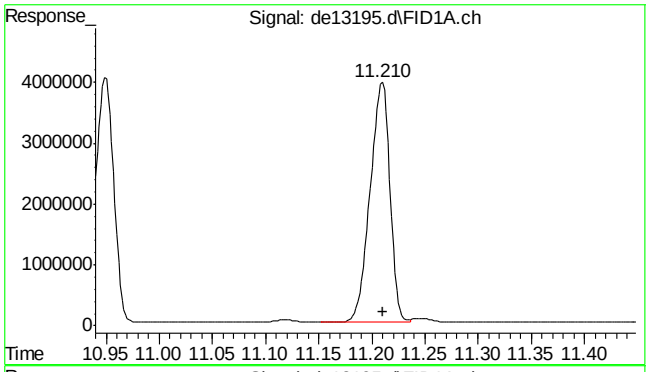
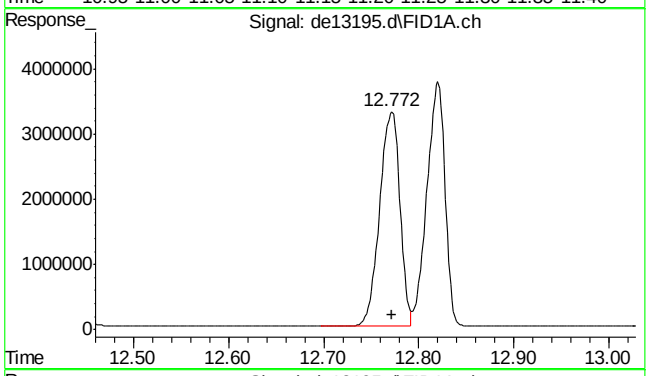


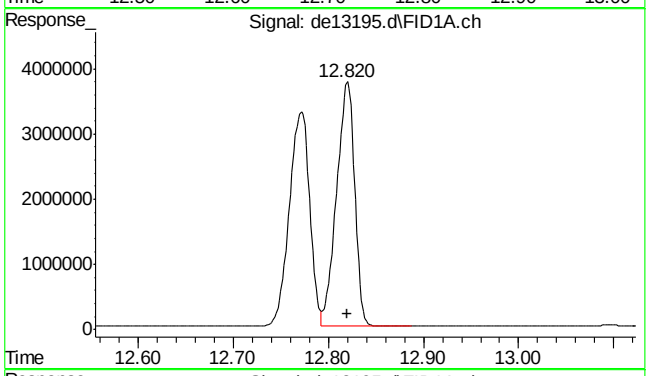
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5123787
Conc: 50.16 µg/ml



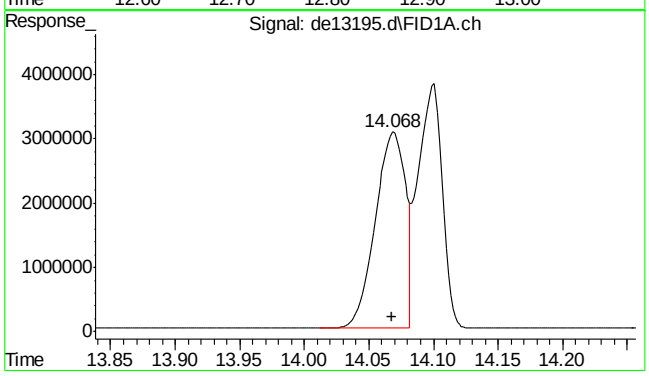
#14 benzo(a)anthracene

R.T.: 12.772 min
Delta R.T.: 0.000 min
Response: 4883350
Conc: 50.33 µg/ml



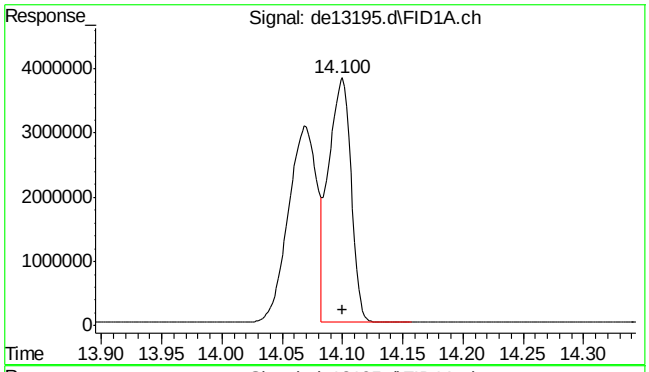
#15 chrysene

R.T.: 12.820 min
Delta R.T.: 0.000 min
Response: 4951740
Conc: 50.66 µg/ml



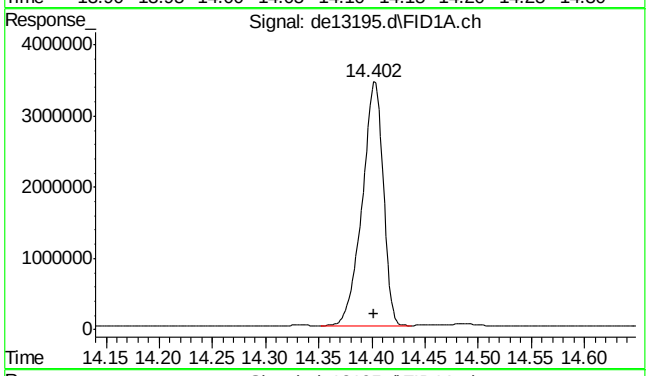
#16 benzo(B)fluoranthene

R.T.: 14.068 min
Delta R.T.: 0.000 min
Response: 4980192
Conc: 49.82 µg/ml



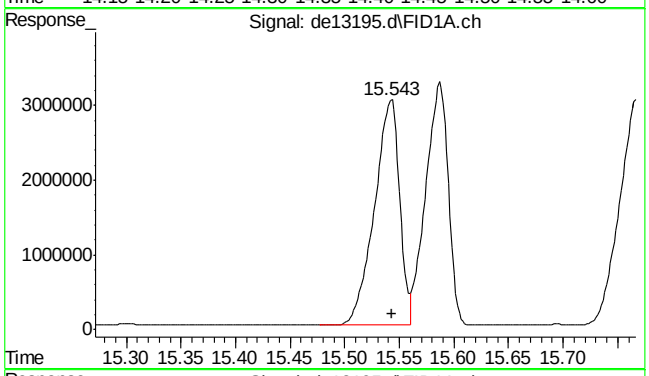
#17 benzo(k)fluoranthene

R.T.: 14.100 min
Delta R.T.: 0.000 min
Response: 4922694
Conc: 51.39 µg/ml



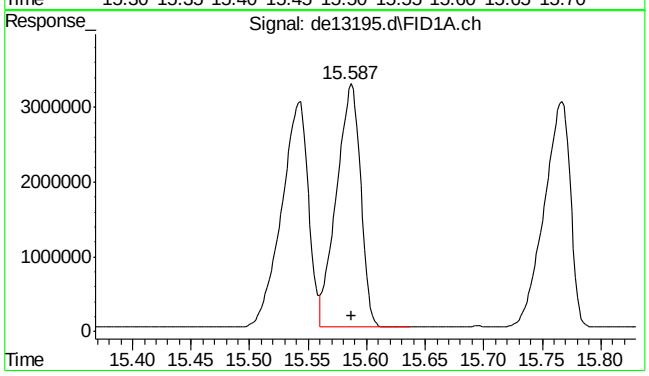
#18 benzo(a)pyrene

R.T.: 14.402 min
Delta R.T.: 0.000 min
Response: 4724847
Conc: 50.44 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4854725
Conc: 50.33 µg/ml m



#20 dibenzo(ah)anthracene

R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 4685536
Conc: 50.80 µg/ml m

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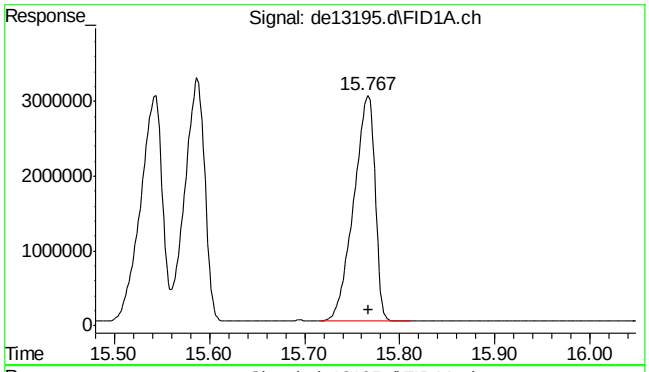
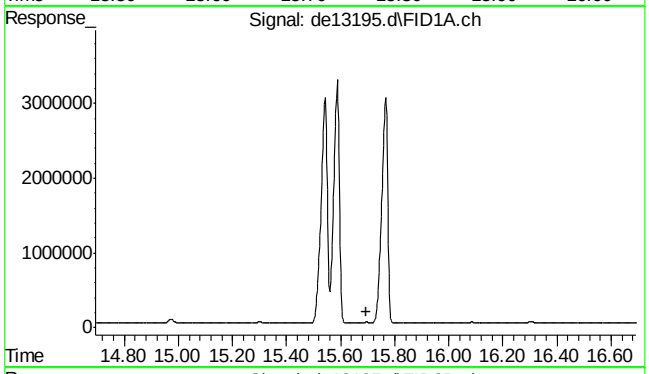


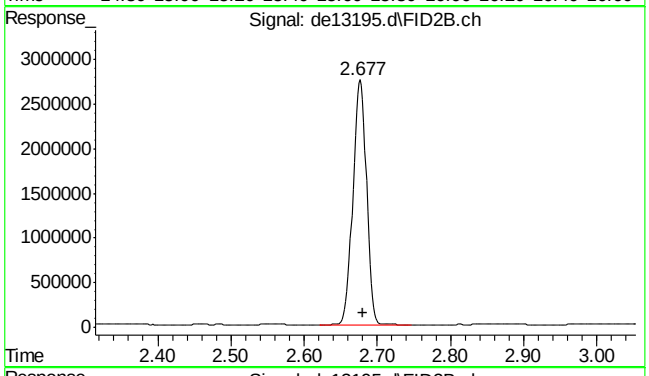
#21 benzo(ghi)perylene

R.T.: 15.767 min
Delta R.T.: 0.000 min
Response: 4705124
Conc: 50.47 µg/ml



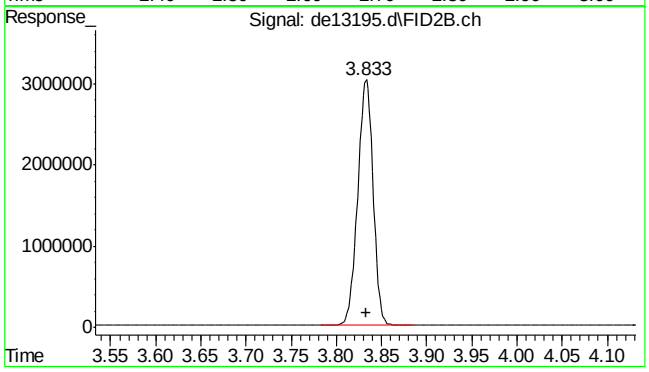
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

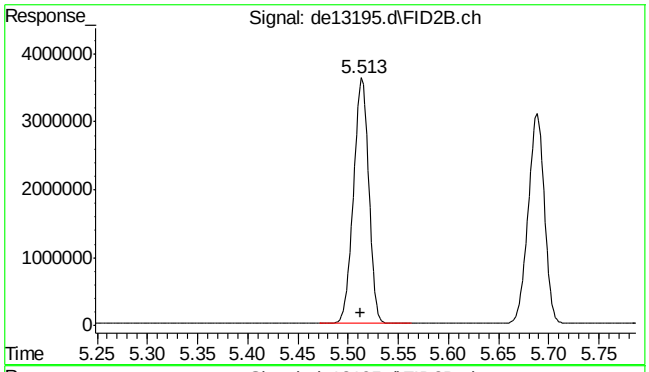
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3541836
Conc: 46.37 µg/ml m



#26 c-10

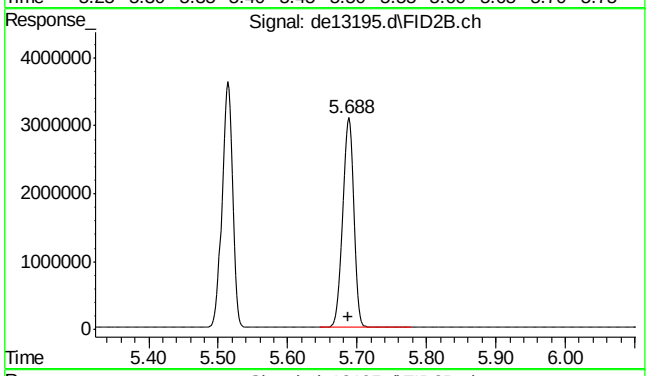
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3570776
Conc: 46.37 µg/ml

SGS ACCUTEST MC45816A



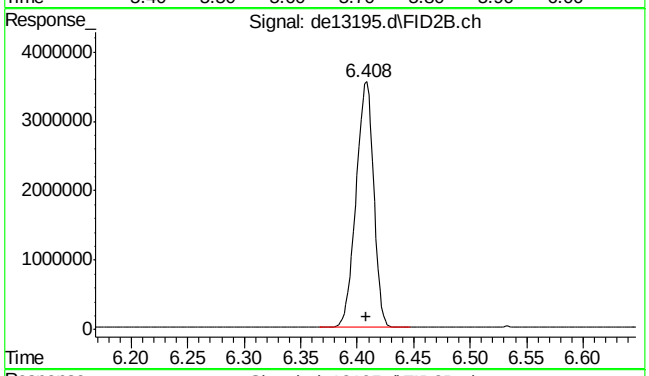
#27 naphthalene #2

R.T.: 5.513 min
Delta R.T.: 0.000 min
Response: 3805435
Conc: 47.63 µg/ml



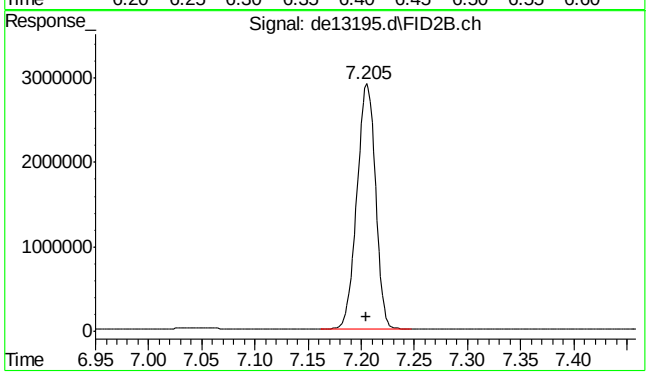
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3545795
Conc: 46.34 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3803724
Conc: 46.79 µg/ml

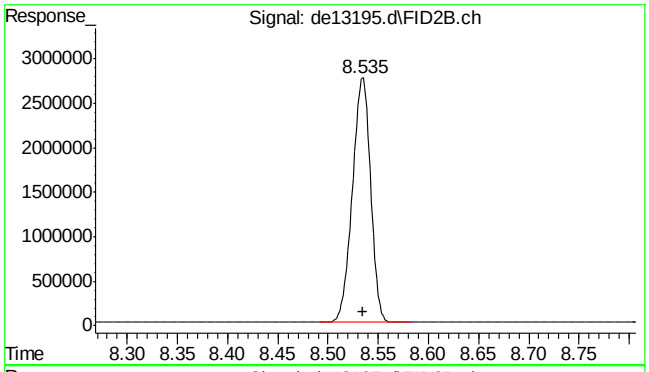


#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3516096
Conc: 46.03 µg/ml

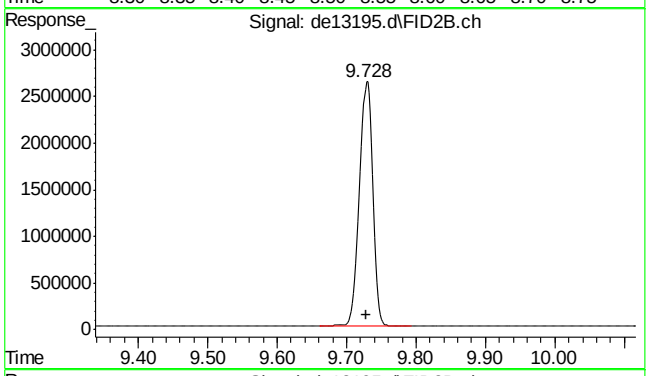
9.5.5
9

SGS ACCUTEST MC45816A



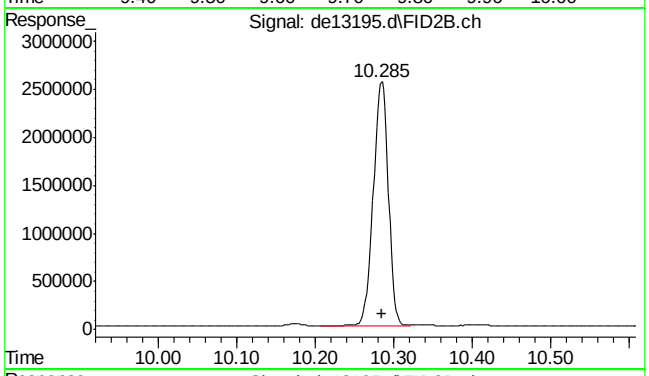
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3450251
Conc: 45.52 µg/ml



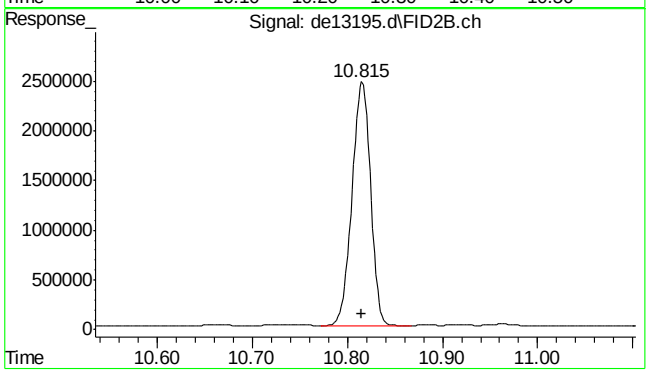
#32 c-18

R.T.: 9.728 min
Delta R.T.: 0.000 min
Response: 3414559
Conc: 45.53 µg/ml



#33 c-19

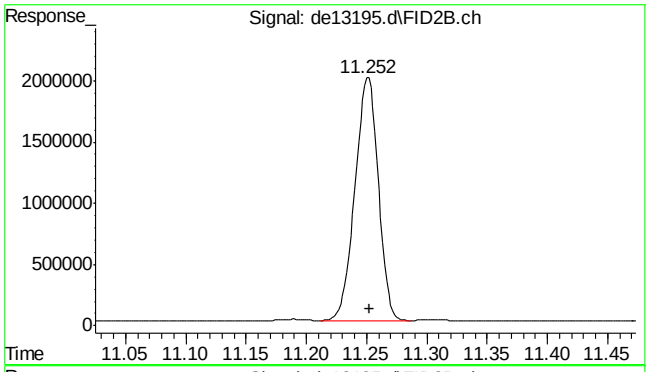
R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3383527
Conc: 46.15 µg/ml



#34 c-20

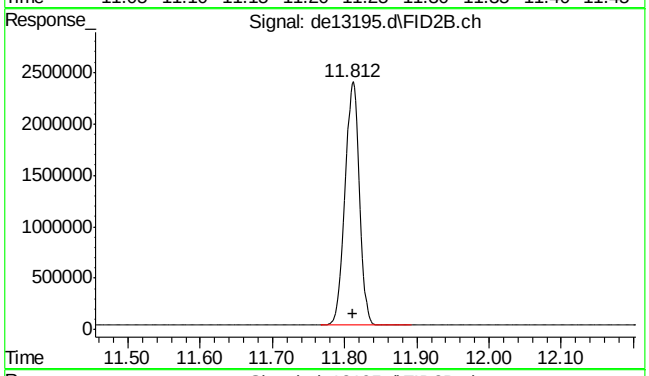
R.T.: 10.815 min
Delta R.T.: 0.000 min
Response: 3319667
Conc: 46.22 µg/ml

SGS ACCUTEST MC45816A



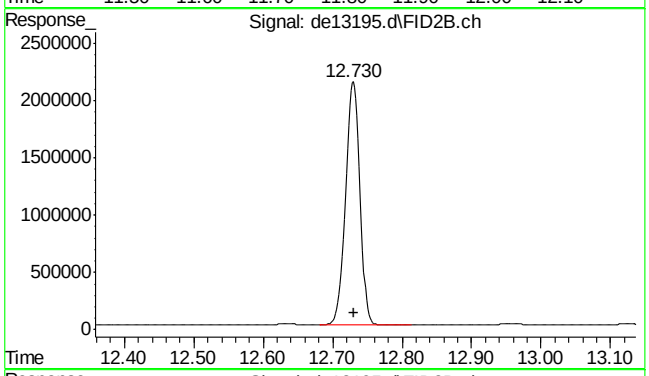
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2679754
Conc: 47.47 µg/ml



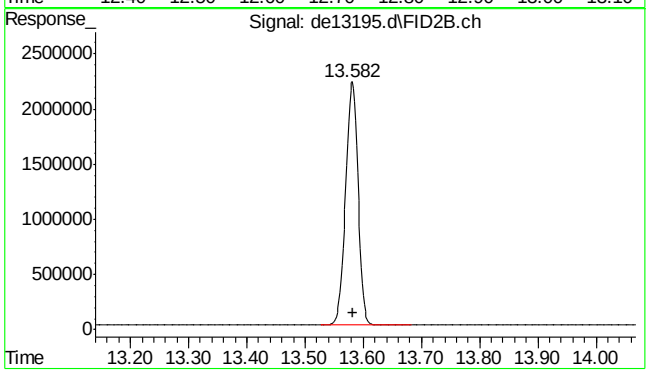
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3288115
Conc: 46.44 µg/ml



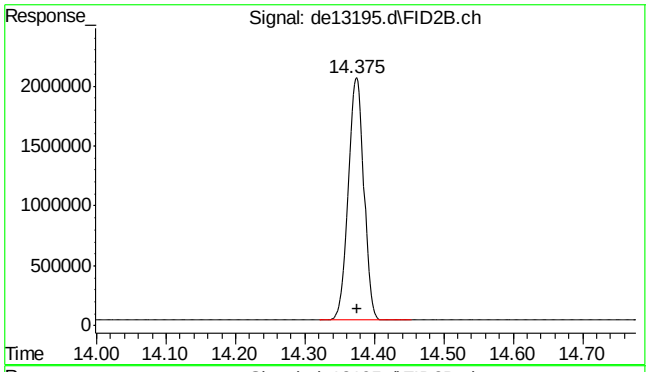
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3065680
Conc: 45.78 µg/ml



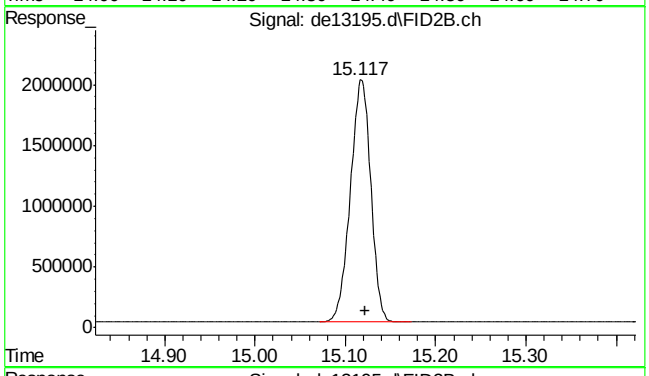
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3260990
Conc: 46.52 µg/ml



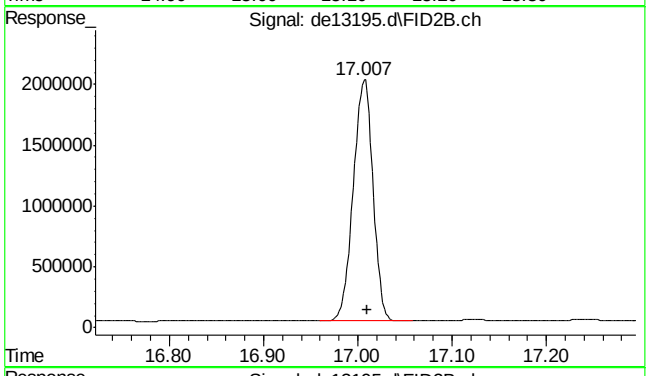
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3155644
Conc: 46.53 µg/ml



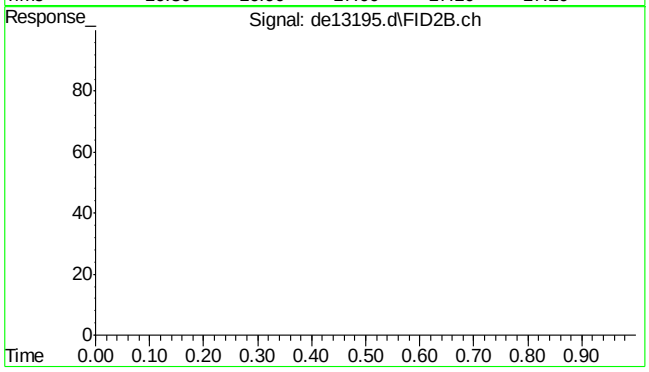
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3152151
Conc: 45.84 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2883025
Conc: 47.18 µg/ml m



#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.5

9

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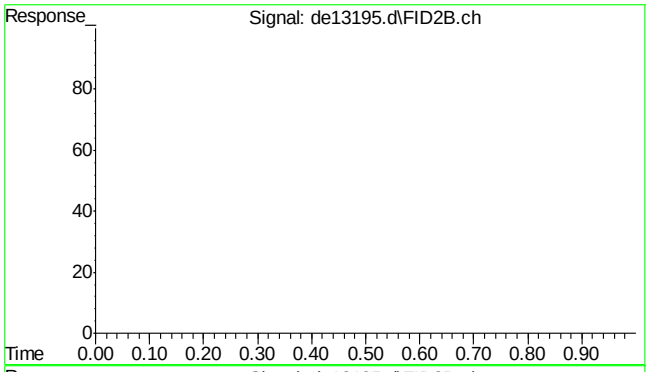
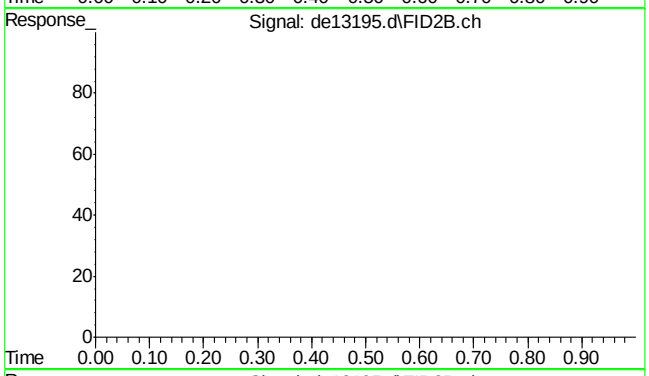


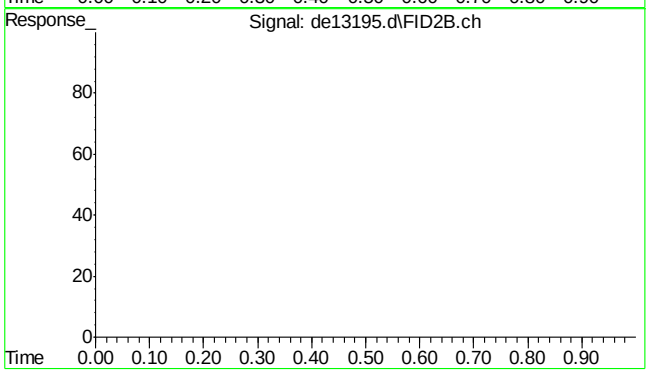
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

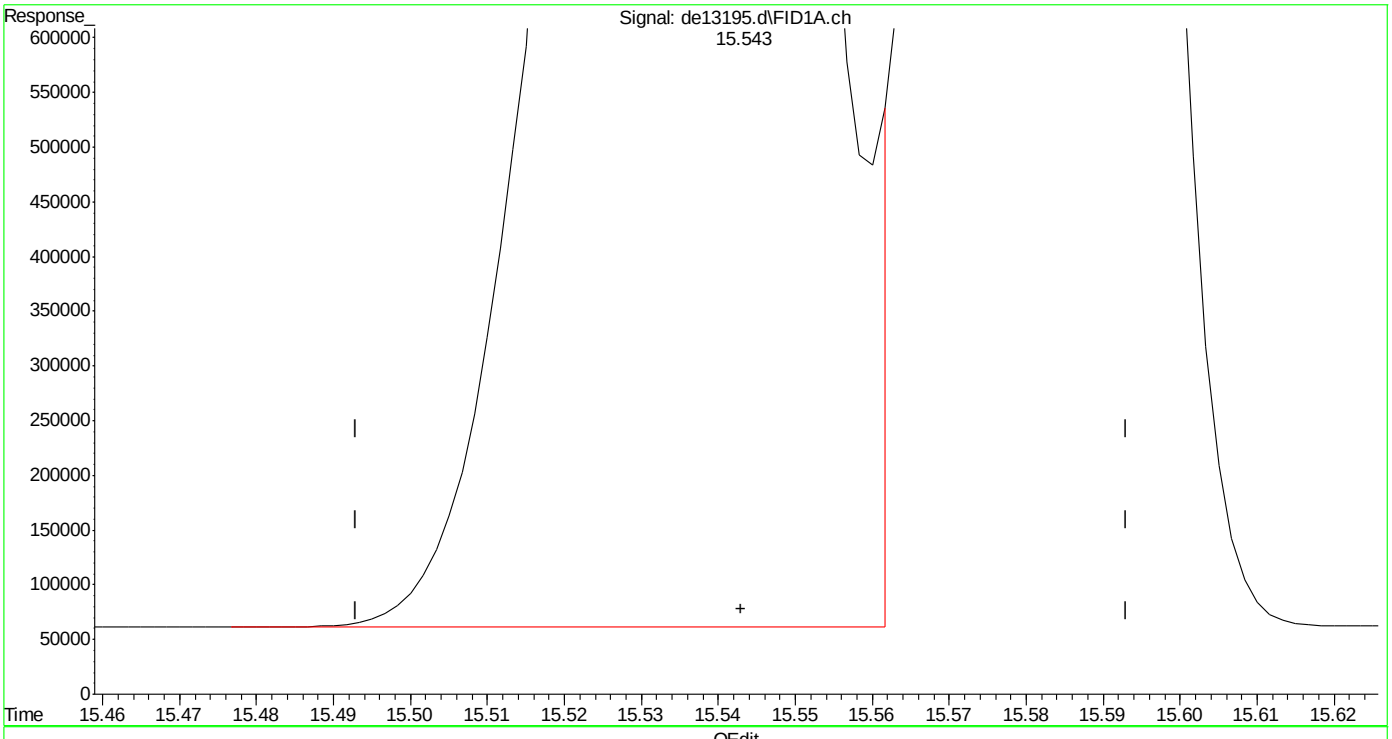
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.543min 50.804 µg/ml
response 4900817

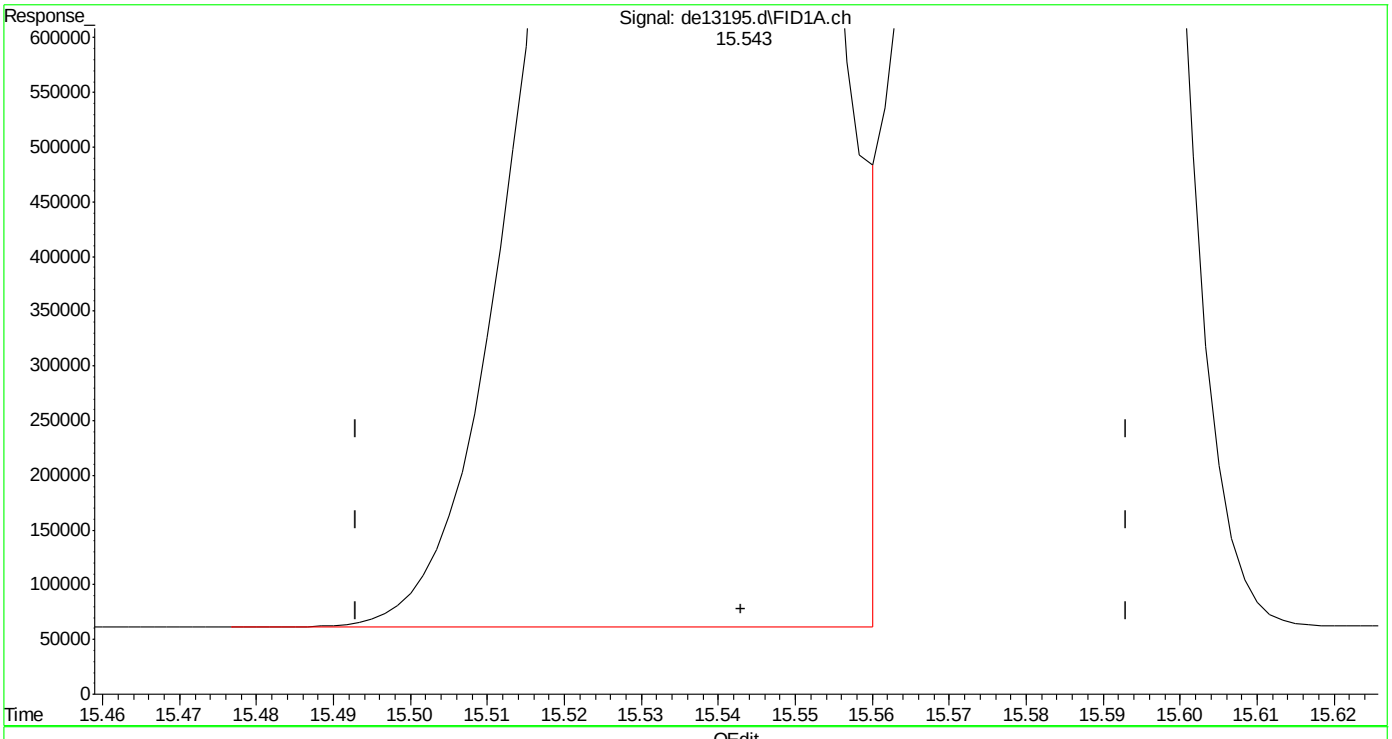
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.543min 50.326 µg/ml m
response 4854725

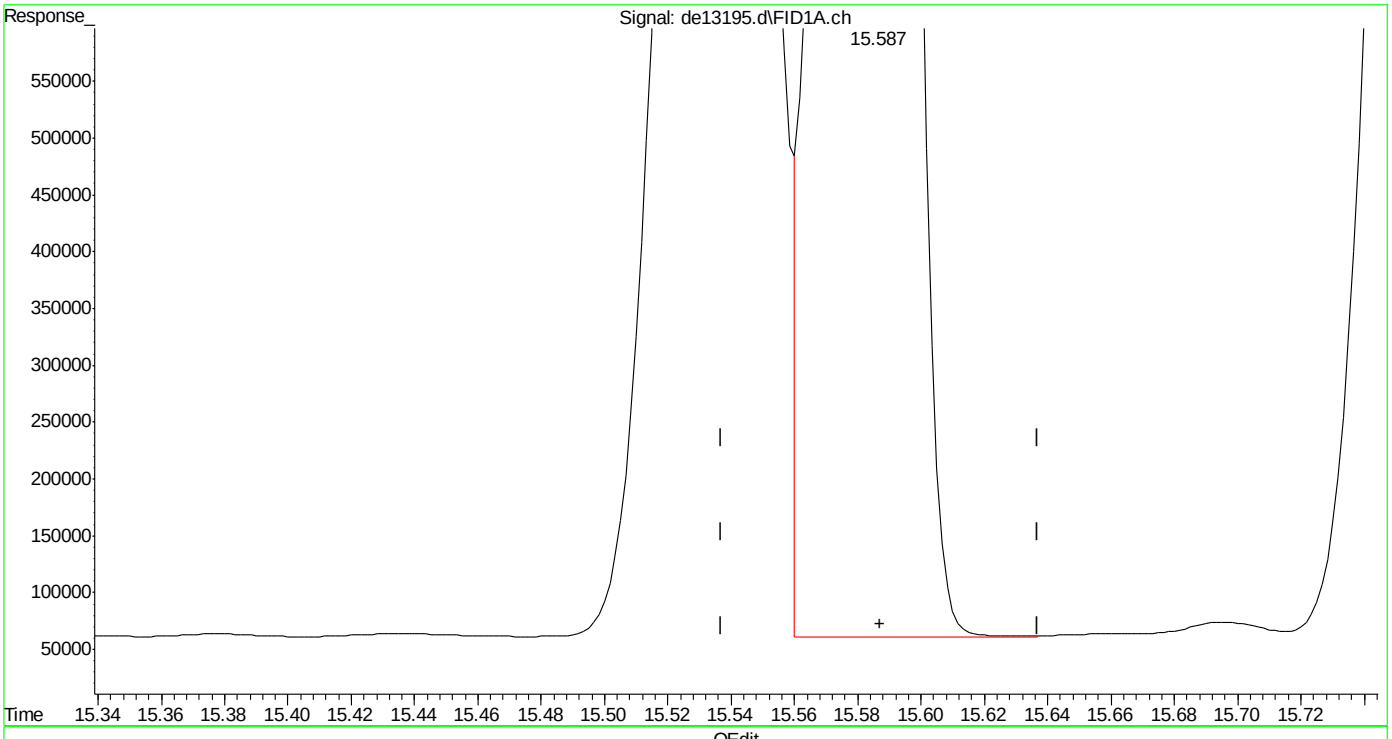
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.587min 50.795 µg/ml m
response 4685536

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.807	8980683	96.248 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 481.24%#	
6) s 2-bromonaphthalene	7.540	6121297	96.499 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 482.49%#	
11) s o-terphenyl	10.087	9937595	96.373 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 481.87%#	
35) s 1-chlorooctadecane	11.253	5337791	94.549 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 472.75%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	164719881	99.532 µg/mlm
2) naphthalene	5.358	10142634	96.942 µg/ml
3) 2-methylnaphthalene	6.257	9997868	96.348 µg/ml
5) acenaphthylene	7.375	9776029	95.799 µg/ml
7) acenaphthene	7.618	10095451	96.622 µg/ml
8) fluorene	8.263	9889893	96.350 µg/ml
9) phenanthrene	9.448	9875264	96.257 µg/ml
10) anthracene	9.507	9378790	97.021 µg/ml
12) fluoranthene	10.957	9629565	95.613 µg/ml
13) pyrene	11.217	9876553	96.690 µg/ml
14) benzo(a)anthracene	12.778	9324427	96.095 µg/mlm
15) chrysene	12.830	9386529	96.029 µg/mlm
16) benzo(B)fluoranthene	14.078	9460698	94.644 µg/ml
17) benzo(k)fluoranthene	14.113	9345183	97.563 µg/ml
18) benzo(a)pyrene	14.417	8964794	95.712 µg/ml
19) indeno(1,2,3-cd)pyrene	15.555	9240715	95.924 µg/ml
20) dibenzo(ah)anthracene	15.600	8726656	94.448 µg/ml
21) benzo(ghi)perylene	15.782	8869696	95.141 µg/ml
25) h c-9	2.680	7080731	92.721 µg/mlm
26) h c-10	3.833	7121293	92.471 µg/ml
27) naphthalene #2	5.518	7593446	95.036 µg/ml
28) c-12	5.692	7047399	92.105 µg/ml
29) 2-methylnaphthalene #2	6.412	7564728	93.063 µg/ml
30) c-14	7.208	6951061	90.996 µg/ml
31) c-16	8.538	6811631	89.870 µg/ml
32) c-18	9.732	6758324	90.119 µg/ml
33) c-19	10.288	6704725	91.450 µg/ml
34) c-20	10.818	6591283	91.774 µg/ml
36) c-22	11.815	6550653	92.519 µg/ml
37) c-24	12.733	6102937	91.140 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.585	6486501	92.533	µg/ml
39)		c-28	14.378	6270223	92.446	µg/ml
40)	h	c-30	15.122	6235140	90.668	µg/ml
41)	h	c-36	17.010	5572797	91.214	µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.6

9

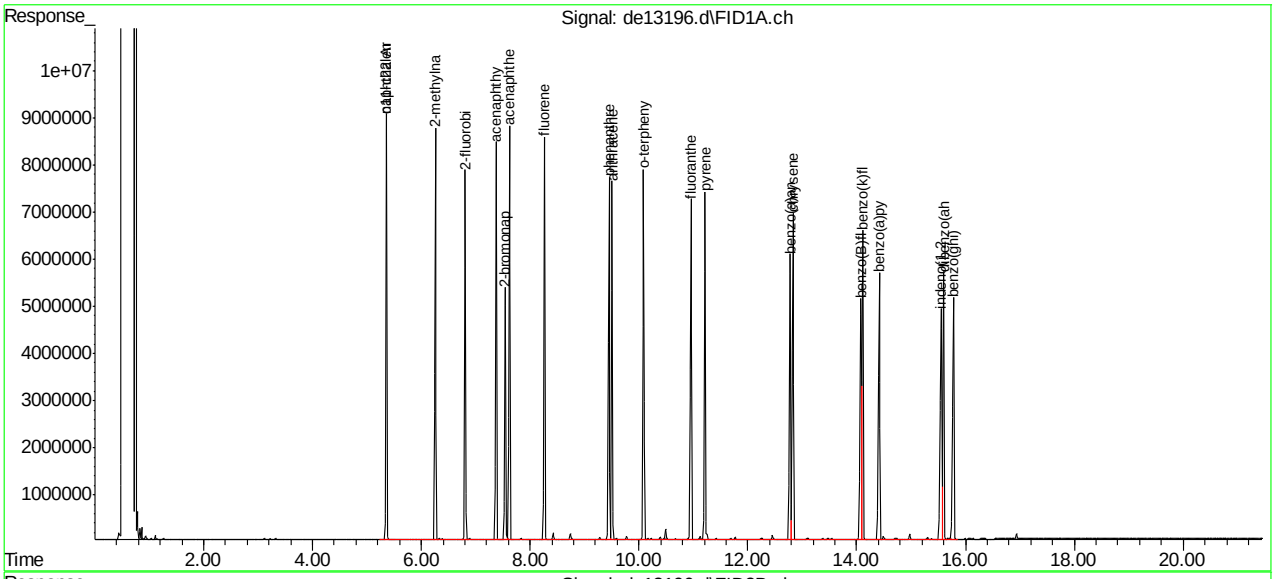
SGS ACCUTEST MC45816A

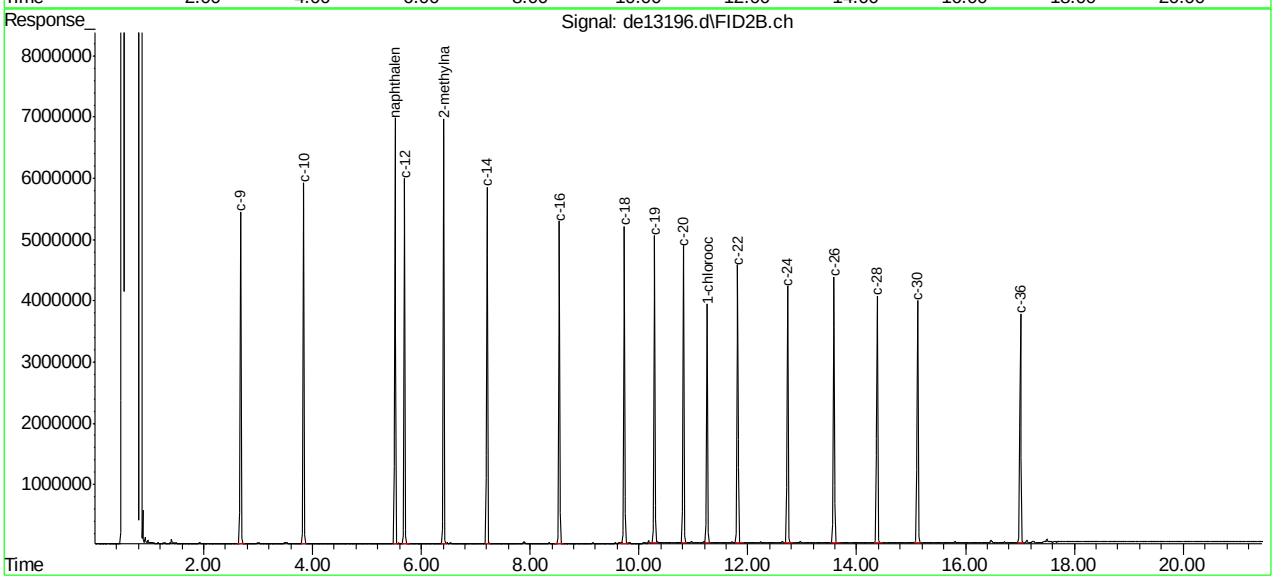
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

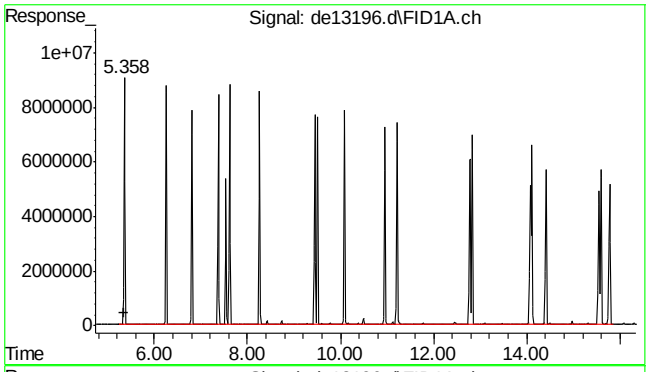
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



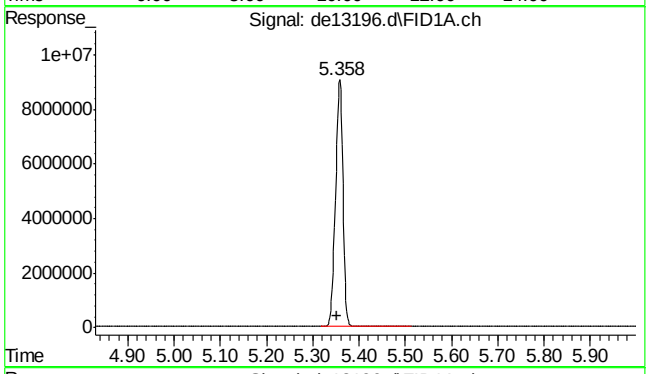


SGS ACCUTEST MC45816A



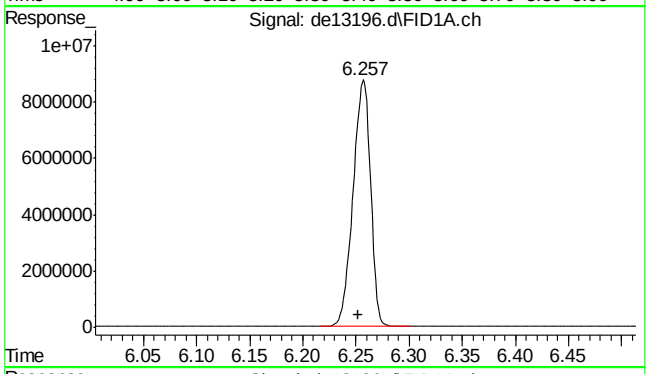
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 164719881
Conc: 99.53 µg/ml m



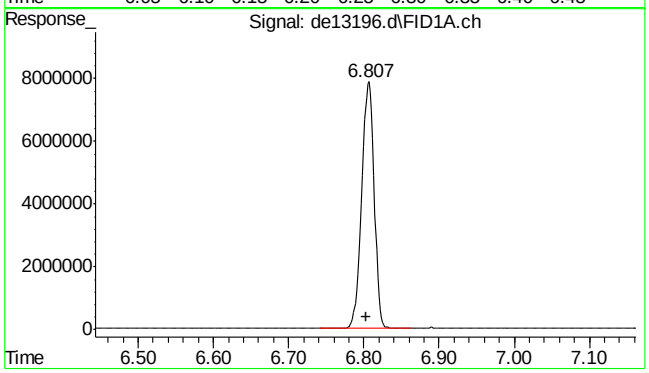
#2 naphthalene

R.T.: 5.358 min
Delta R.T.: 0.005 min
Response: 10142634
Conc: 96.94 µg/ml



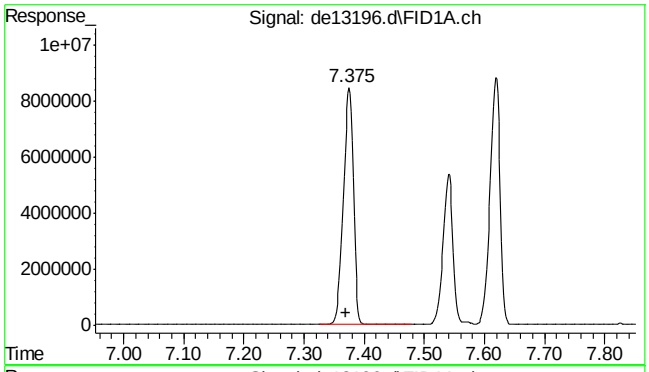
#3 2-methylnaphthalene

R.T.: 6.257 min
Delta R.T.: 0.005 min
Response: 9997868
Conc: 96.35 µg/ml



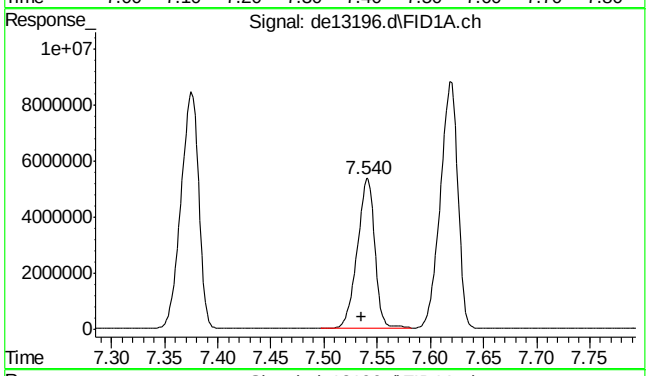
#4 2-fluorobiphenyl

R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 8980683
Conc: 96.25 µg/ml



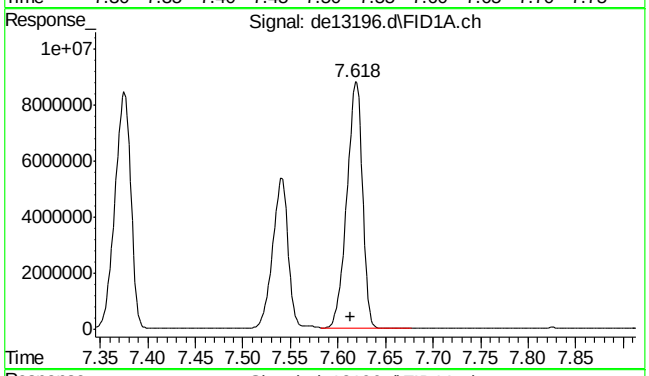
#5 acenaphthylene

R.T.: 7.375 min
Delta R.T.: 0.005 min
Response: 9776029
Conc: 95.80 µg/ml



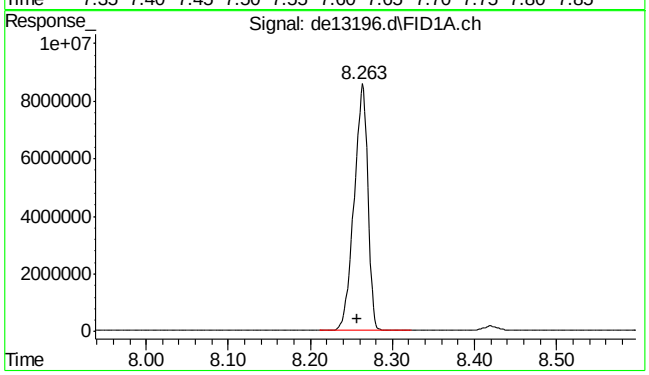
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 6121297
Conc: 96.50 µg/ml



#7 acenaphthene

R.T.: 7.618 min
Delta R.T.: 0.005 min
Response: 10095451
Conc: 96.62 µg/ml



#8 fluorene

R.T.: 8.263 min
Delta R.T.: 0.006 min
Response: 9889893
Conc: 96.35 µg/ml

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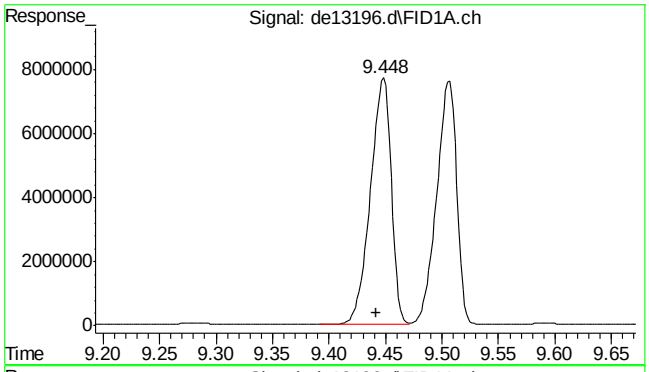
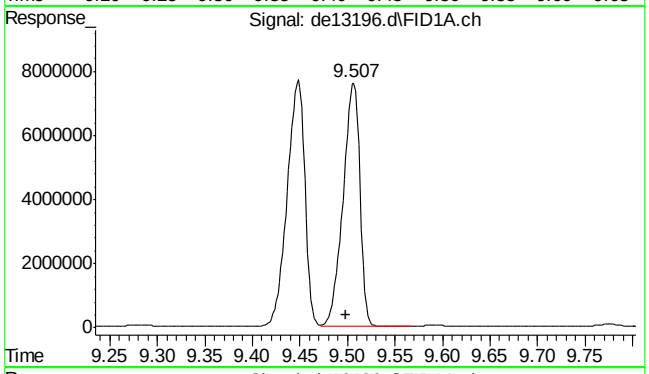


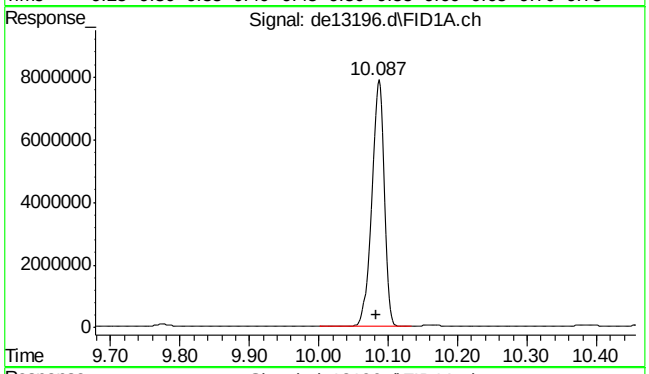
#9 phenanthrene

R.T.: 9.448 min
Delta R.T.: 0.006 min
Response: 9875264
Conc: 96.26 µg/ml



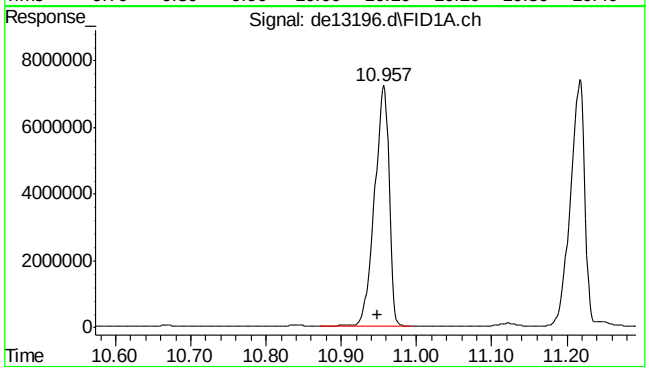
#10 anthracene

R.T.: 9.507 min
Delta R.T.: 0.009 min
Response: 9378790
Conc: 97.02 µg/ml



#11 o-terphenyl

R.T.: 10.087 min
Delta R.T.: 0.004 min
Response: 9937595
Conc: 96.37 µg/ml



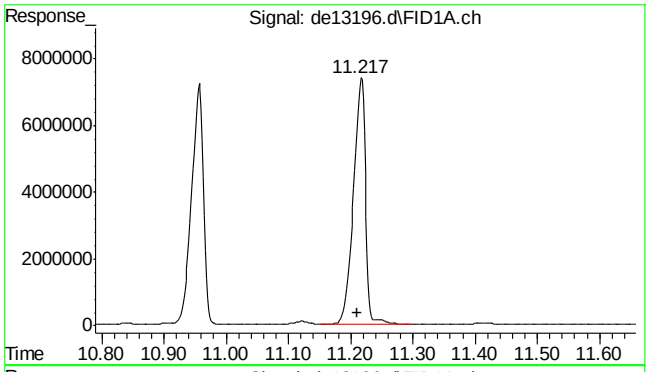
#12 fluoranthene

R.T.: 10.957 min
Delta R.T.: 0.009 min
Response: 9629565
Conc: 95.61 µg/ml

9.5.6

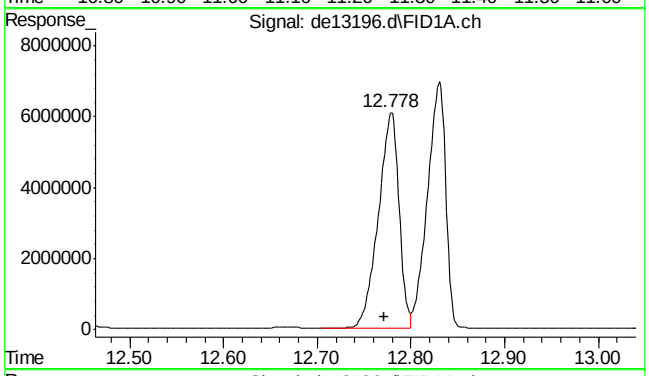
9

SGS ACCUTEST MC45816A



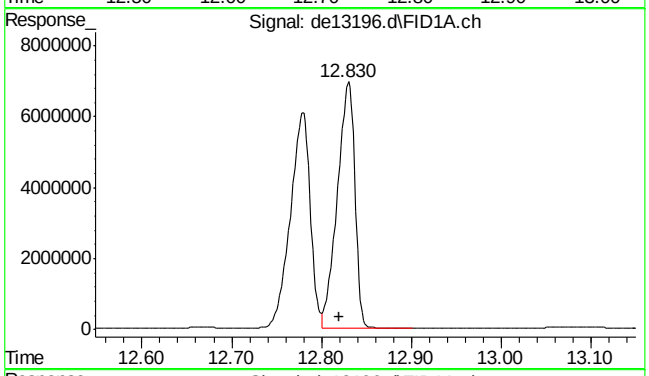
#13 pyrene

R.T.: 11.217 min
Delta R.T.: 0.007 min
Response: 9876553
Conc: 96.69 µg/ml



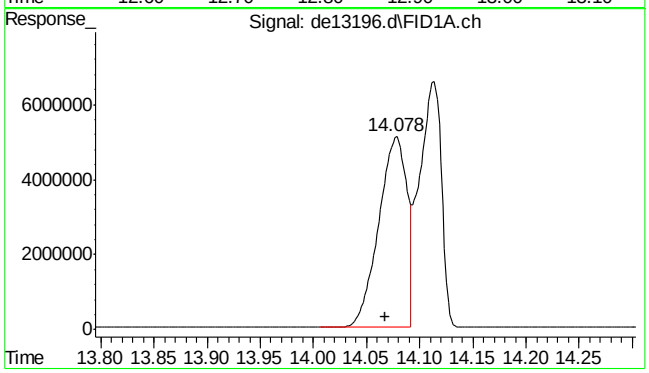
#14 benzo(a)anthracene

R.T.: 12.778 min
Delta R.T.: 0.006 min
Response: 9324427
Conc: 96.10 µg/ml m



#15 chrysene

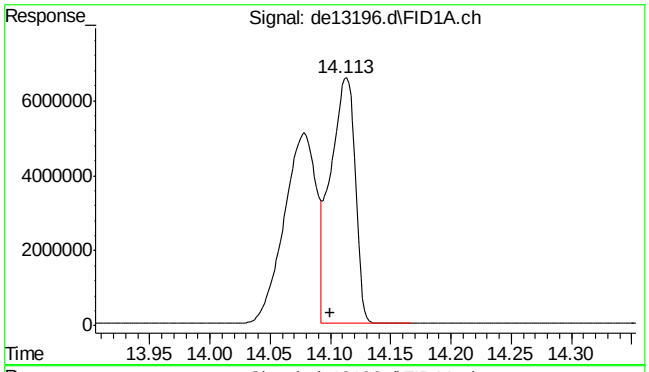
R.T.: 12.830 min
Delta R.T.: 0.010 min
Response: 9386529
Conc: 96.03 µg/ml m



#16 benzo(B)fluoranthene

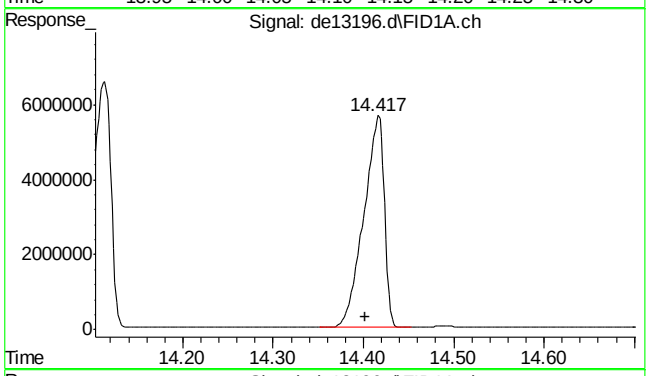
R.T.: 14.078 min
Delta R.T.: 0.010 min
Response: 9460698
Conc: 94.64 µg/ml

SGS ACCUTEST MC45816A



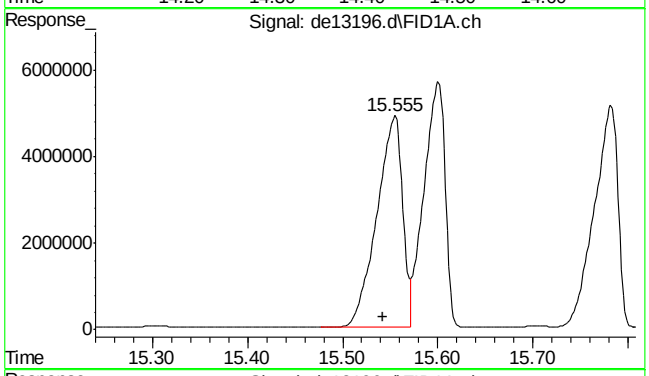
#17 benzo(k)fluoranthene

R.T.: 14.113 min
Delta R.T.: 0.013 min
Response: 9345183
Conc: 97.56 µg/ml



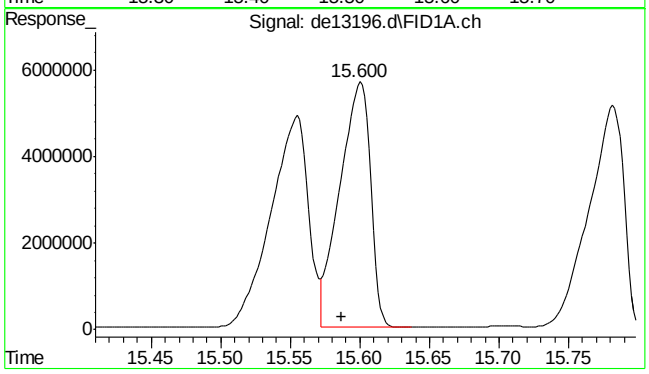
#18 benzo(a)pyrene

R.T.: 14.417 min
Delta R.T.: 0.015 min
Response: 8964794
Conc: 95.71 µg/ml



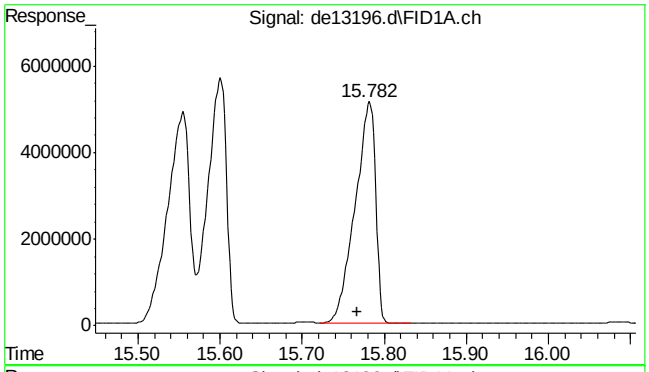
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.555 min
Delta R.T.: 0.012 min
Response: 9240715
Conc: 95.92 µg/ml



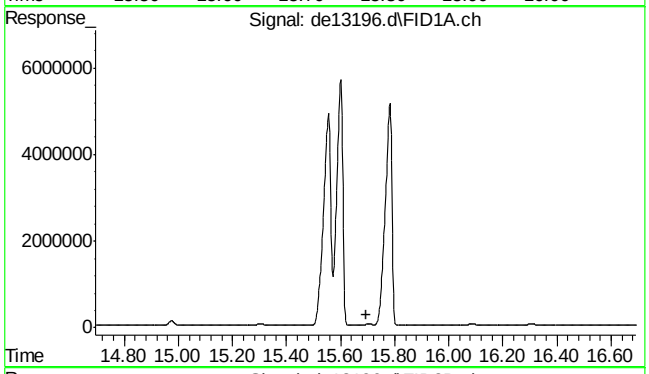
#20 dibenzo(ah)anthracene

R.T.: 15.600 min
Delta R.T.: 0.013 min
Response: 8726656
Conc: 94.45 µg/ml



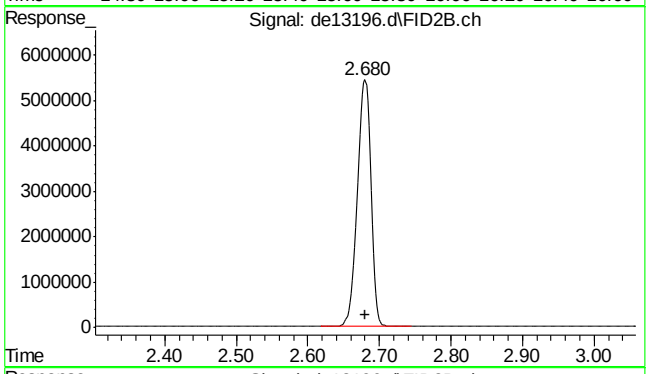
#21 benzo(ghi)perylene

R.T.: 15.782 min
Delta R.T.: 0.015 min
Response: 8869696
Conc: 95.14 µg/ml



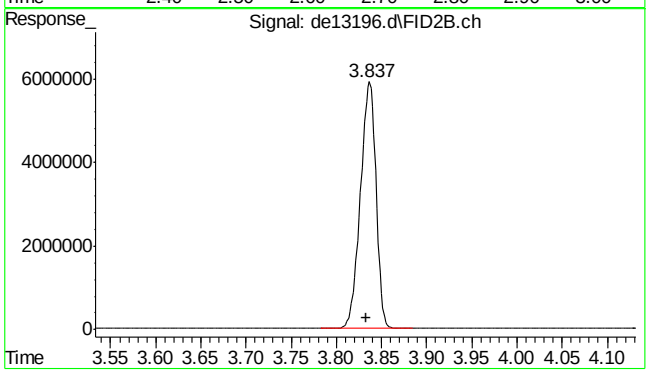
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 7080731
Conc: 92.72 µg/ml m



#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 7121293
Conc: 92.47 µg/ml

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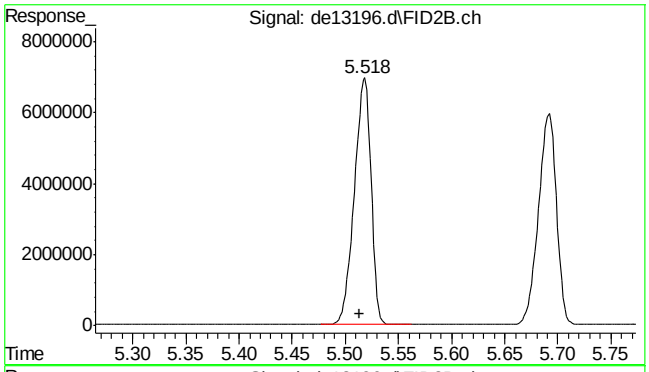
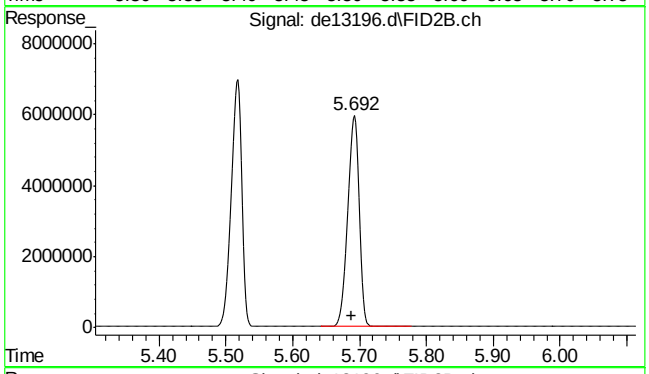


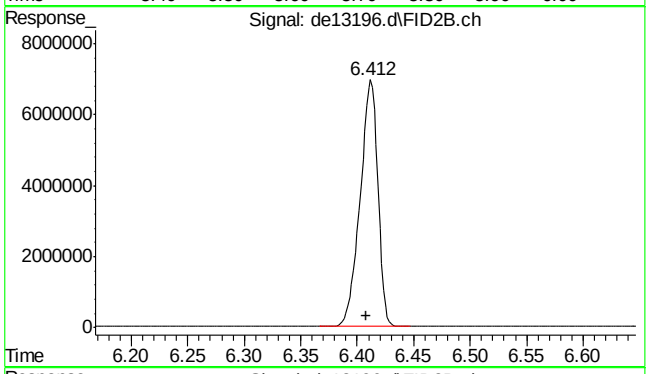
#27 naphthalene #2

R.T.: 5.518 min
Delta R.T.: 0.005 min
Response: 7593446
Conc: 95.04 µg/ml



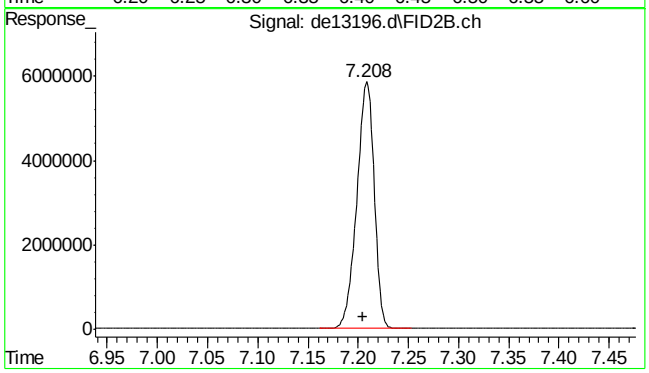
#28 c-12

R.T.: 5.692 min
Delta R.T.: 0.004 min
Response: 7047399
Conc: 92.10 µg/ml



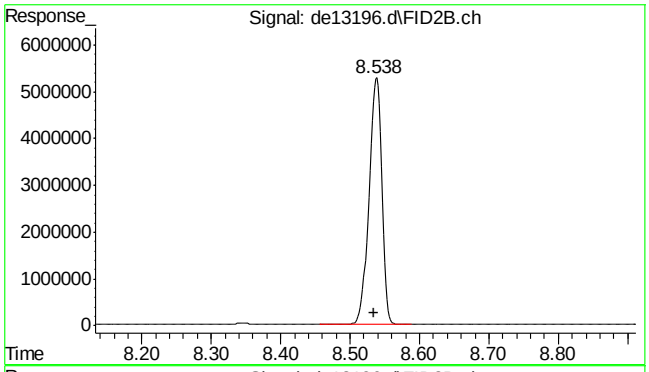
#29 2-methylnaphthalene #2

R.T.: 6.412 min
Delta R.T.: 0.004 min
Response: 7564728
Conc: 93.06 µg/ml



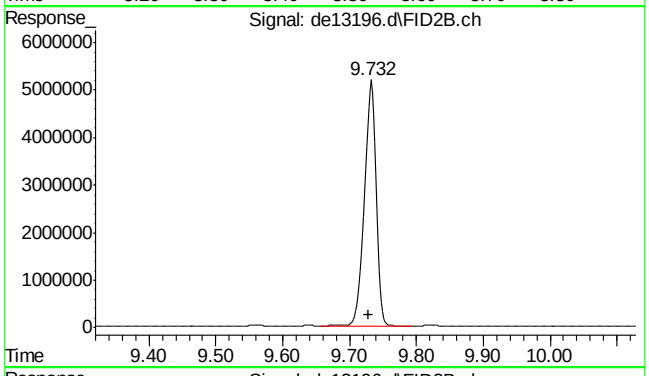
#30 c-14

R.T.: 7.208 min
Delta R.T.: 0.003 min
Response: 6951061
Conc: 91.00 µg/ml



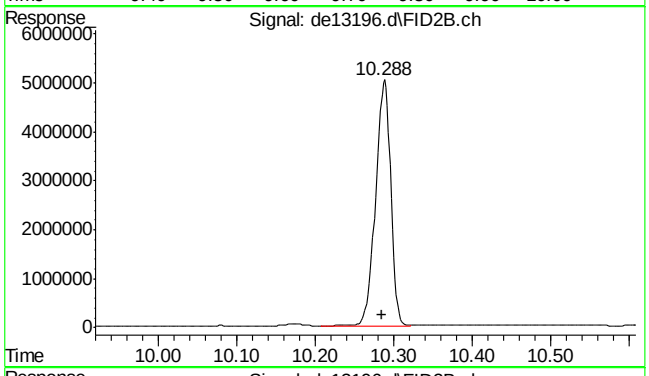
#31 c-16

R.T.: 8.538 min
Delta R.T.: 0.003 min
Response: 6811631
Conc: 89.87 µg/ml



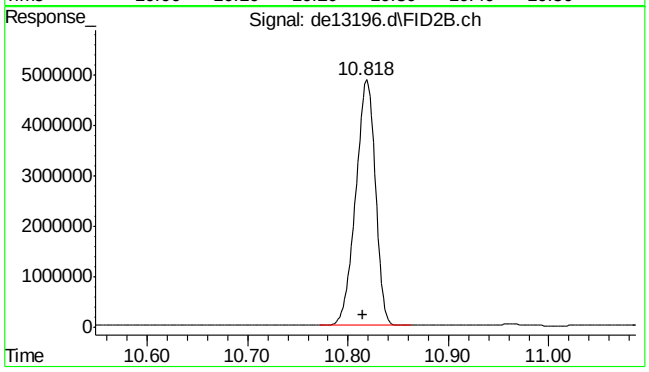
#32 c-18

R.T.: 9.732 min
Delta R.T.: 0.004 min
Response: 6758324
Conc: 90.12 µg/ml



#33 c-19

R.T.: 10.288 min
Delta R.T.: 0.003 min
Response: 6704725
Conc: 91.45 µg/ml



#34 c-20

R.T.: 10.818 min
Delta R.T.: 0.003 min
Response: 6591283
Conc: 91.77 µg/ml

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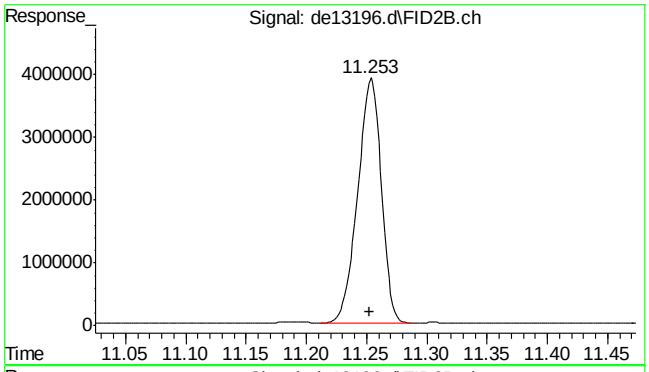
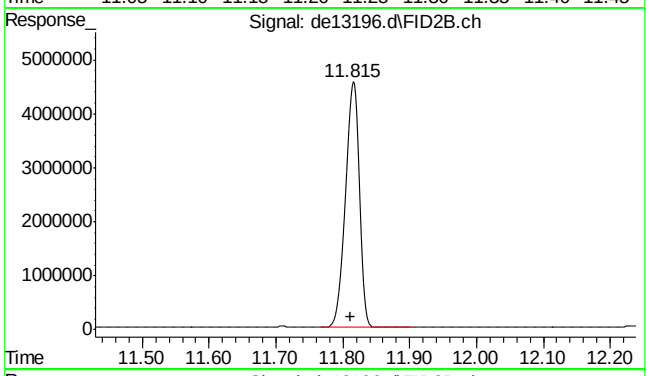


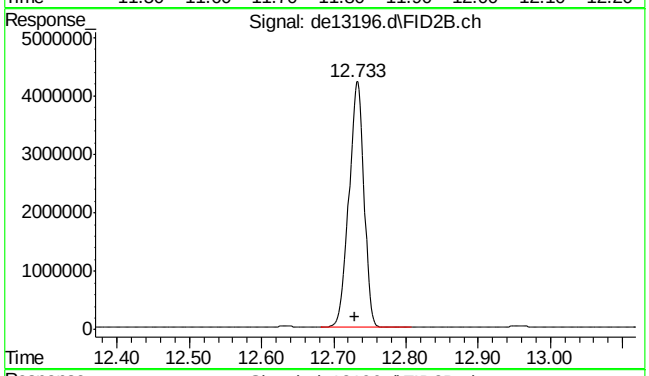
#35 1-chlorooctadecane

R.T.: 11.253 min
Delta R.T.: 0.001 min
Response: 5337791
Conc: 94.55 µg/ml



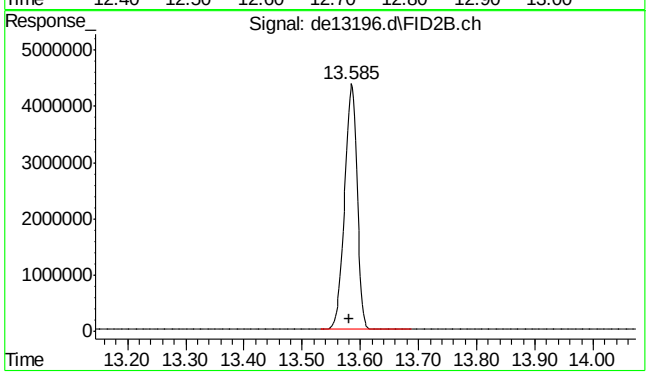
#36 c-22

R.T.: 11.815 min
Delta R.T.: 0.003 min
Response: 6550653
Conc: 92.52 µg/ml



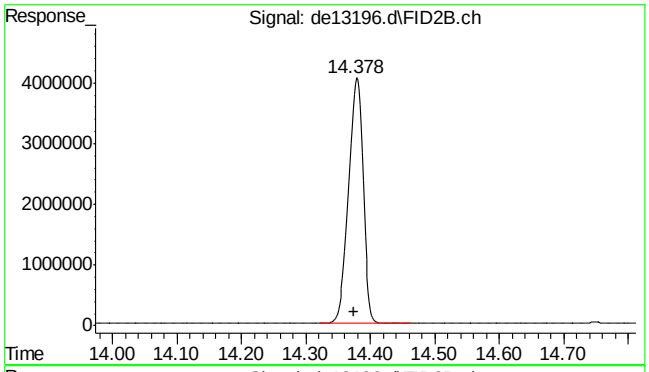
#37 c-24

R.T.: 12.733 min
Delta R.T.: 0.003 min
Response: 6102937
Conc: 91.14 µg/ml



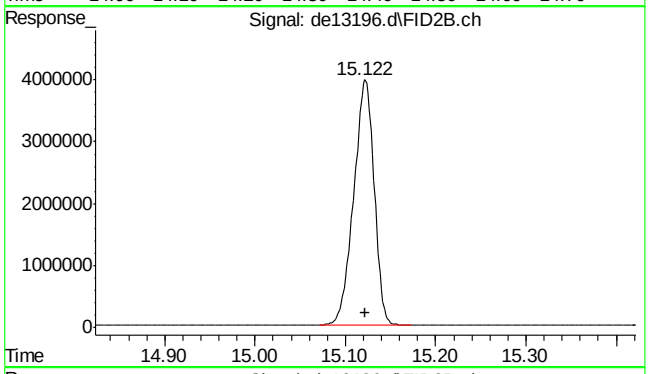
#38 c-26

R.T.: 13.585 min
Delta R.T.: 0.003 min
Response: 6486501
Conc: 92.53 µg/ml



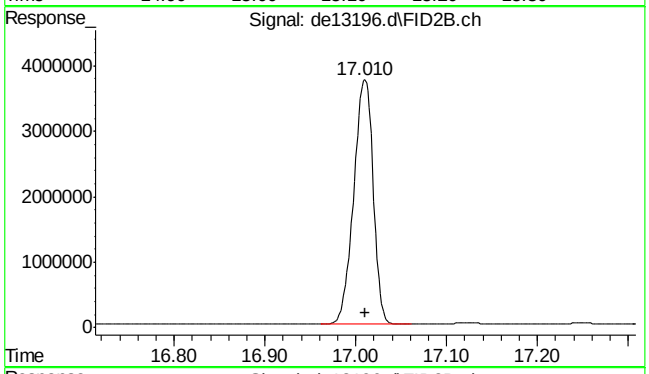
#39 c-28

R.T.: 14.378 min
Delta R.T.: 0.003 min
Response: 6270223
Conc: 92.45 µg/ml



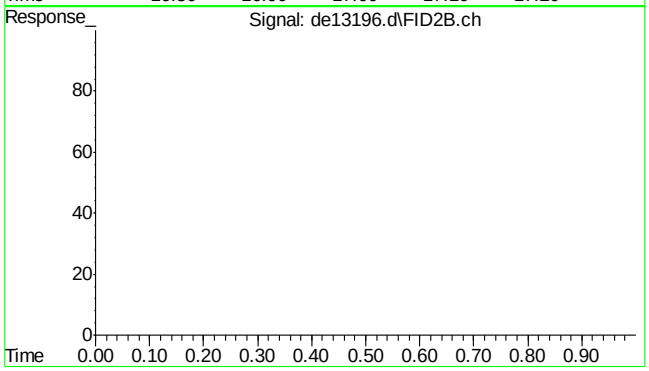
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 6235140
Conc: 90.67 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 5572797
Conc: 91.21 µg/ml m



#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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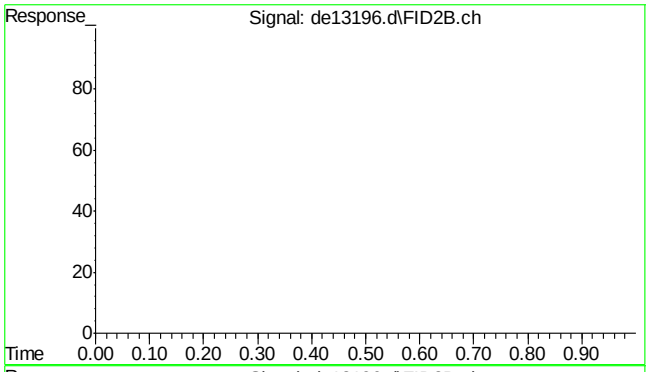
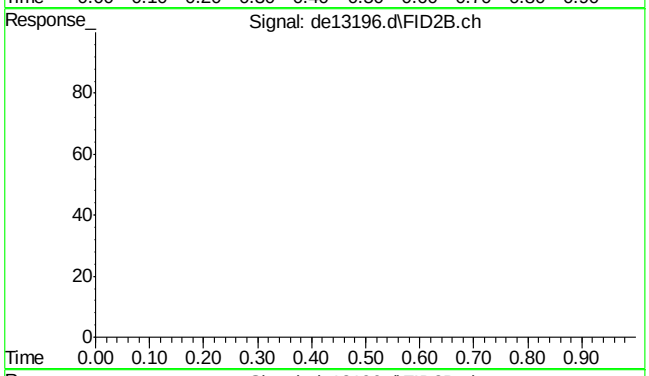


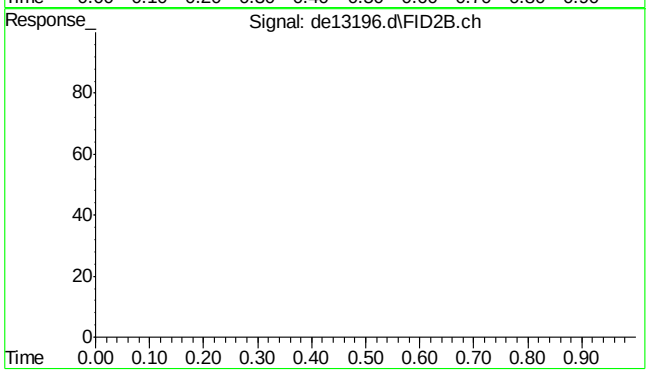
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

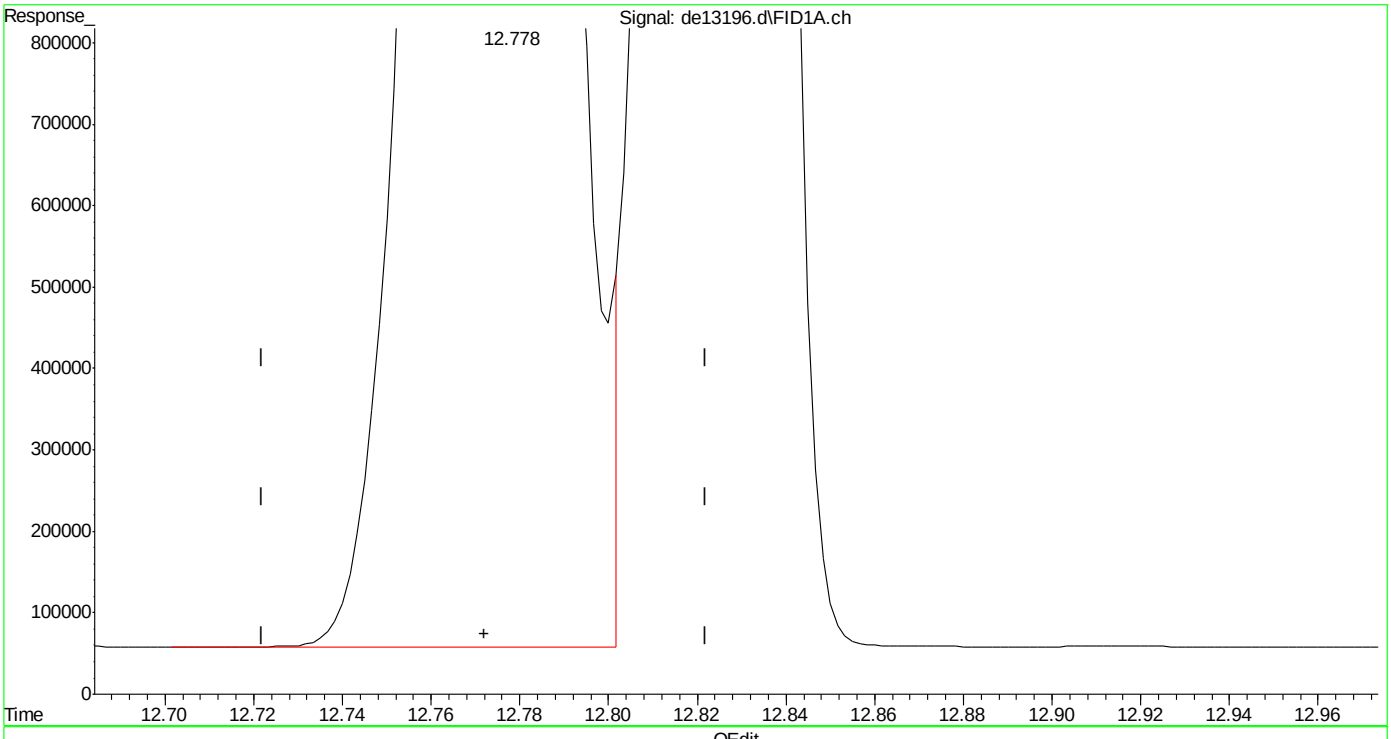
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.778min 96.536 µg/ml
response 9367180

(+) = Expected Retention Time

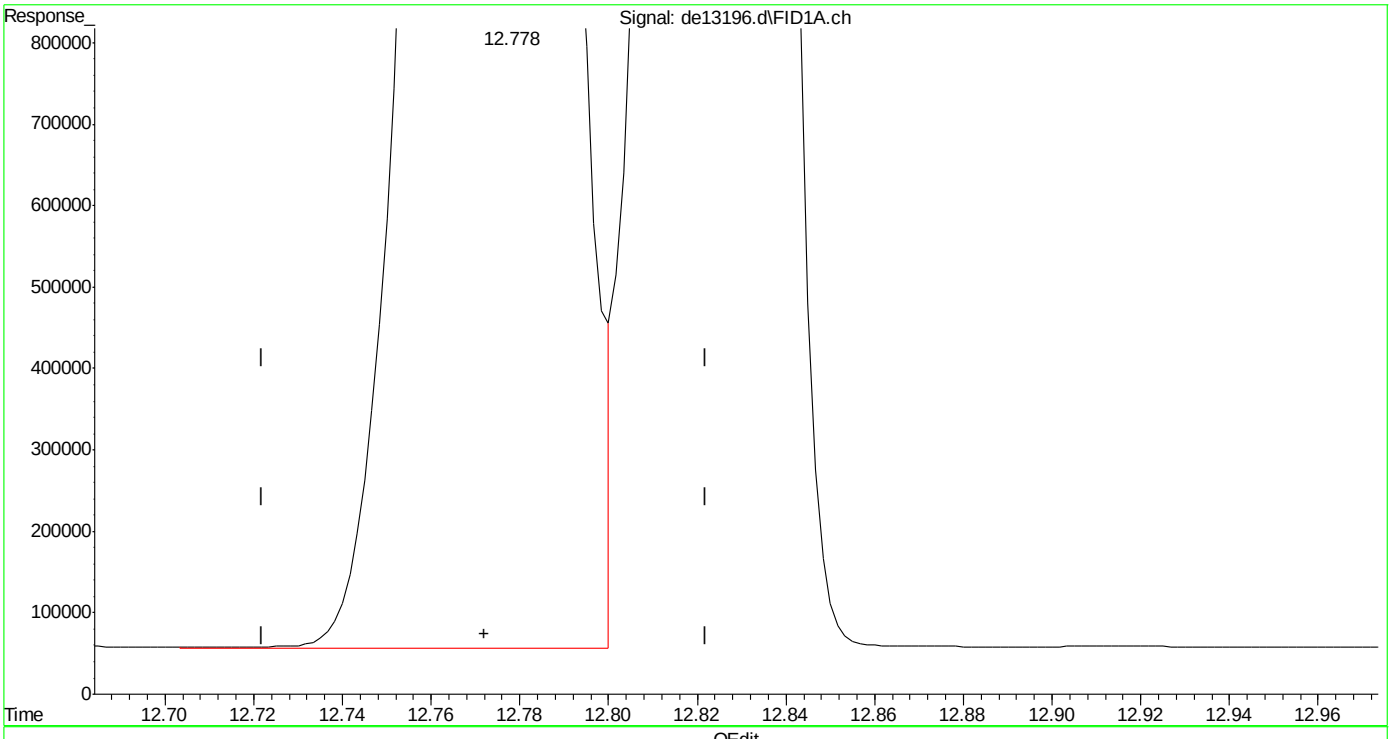
EPH160204M.M Fri Feb 05 10:59:36 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.778min 96.095 µg/ml m
response 9324427

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 11:00:52 2016

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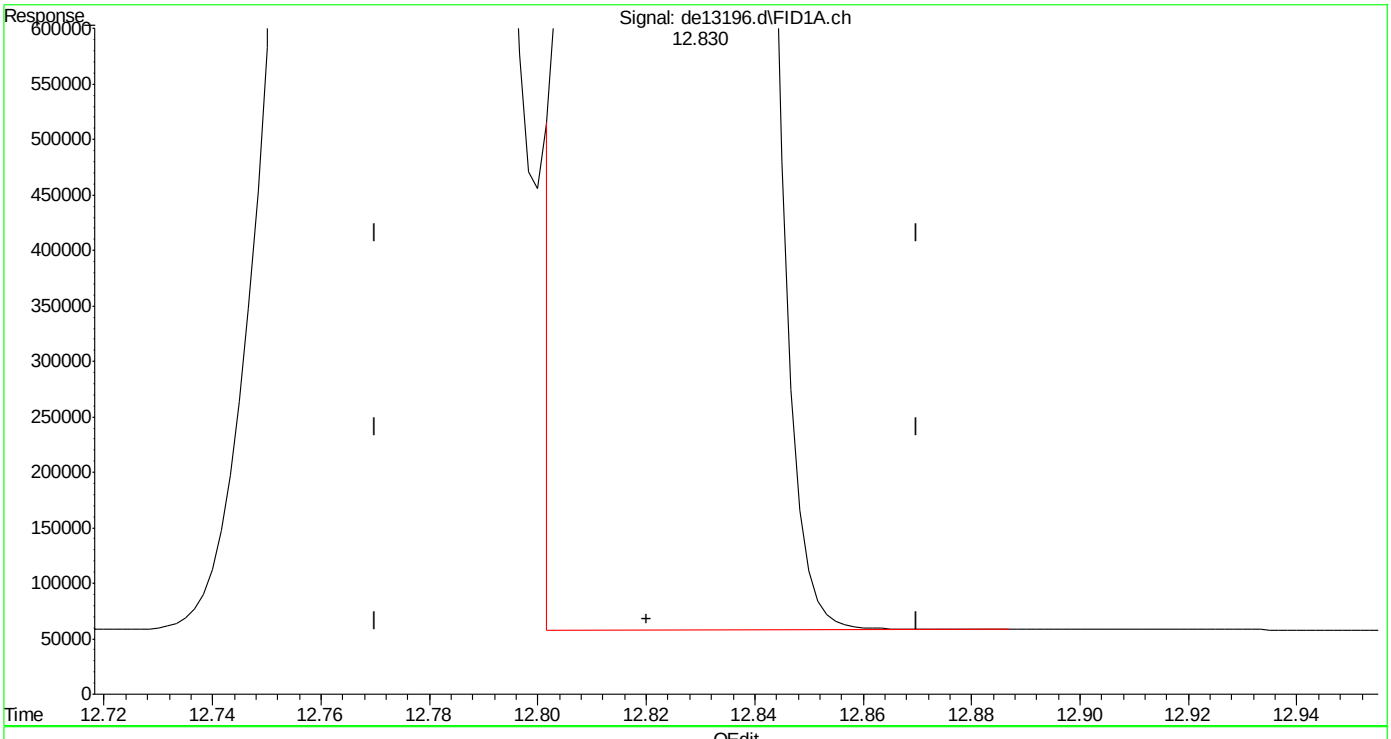
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.830min 95.489 µg/ml
response 9333760

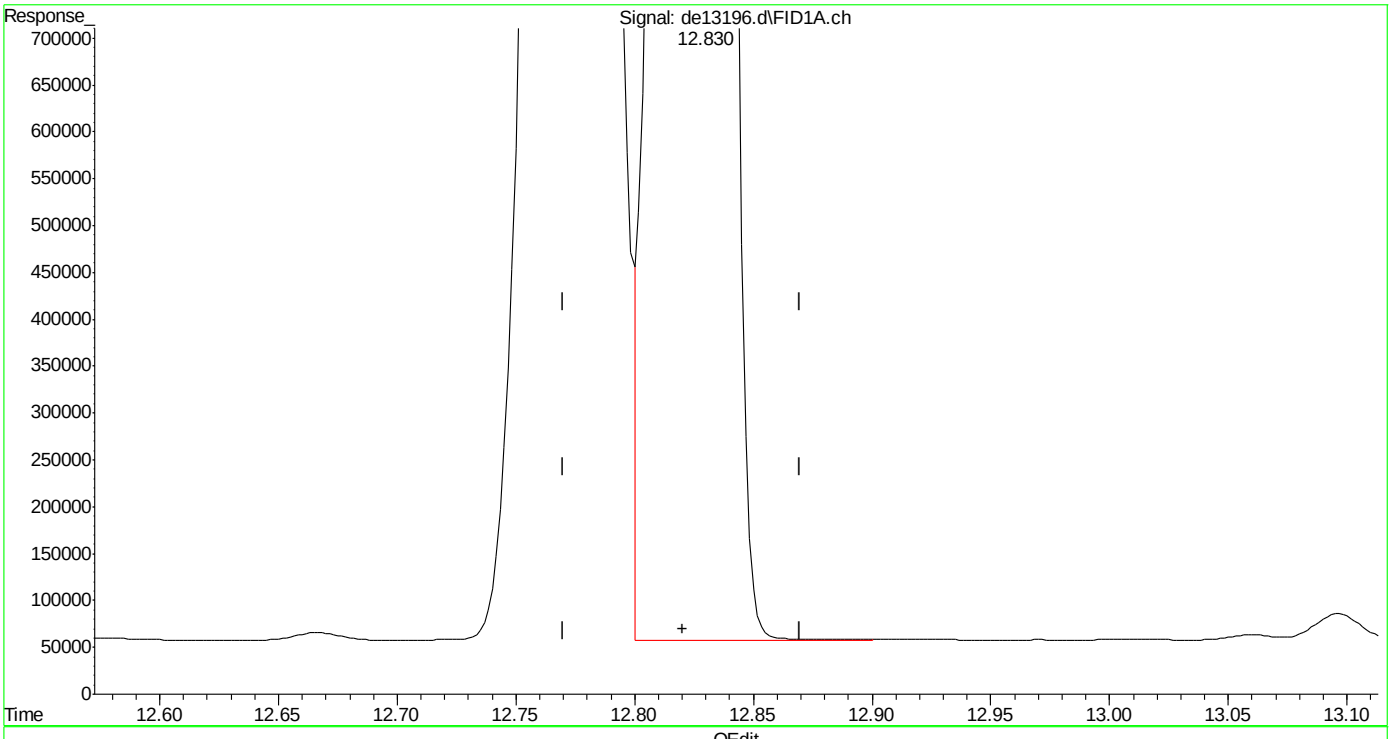
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.830min 96.029 µg/ml m
response 9386529

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:01:59 2016

SGS ACCUTEST MC45816A

DE13197.D

Manual Integrations APPROVED (compounds with "m" flag)

Andri Piluri 02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.813	17171697	185.149 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 925.75%#	
6) s 2-bromonaphthalene	7.548	11710947	185.457 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 927.28%#	
11) s o-terphenyl	10.095	18995194	184.432 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 922.16%#	
35) s 1-chlorooctadecane	11.258	9870838	174.493 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 872.47%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	316974952	191.661 µg/mlm
2) naphthalene	5.365	19450620	187.644 µg/ml
3) 2-methylnaphthalene	6.263	19131536	185.697 µg/ml
5) acenaphthylene	7.383f	18686177	184.334 µg/ml
7) acenaphthene	7.628	19311298	185.676 µg/ml
8) fluorene	8.272	18917157	185.002 µg/ml
9) phenanthrene	9.457	18899419	184.533 µg/ml
10) anthracene	9.517	17945874	184.815 µg/ml
12) fluoranthene	10.968	18457513	183.371 µg/ml
13) pyrene	11.228	18932497	185.310 µg/ml
14) benzo(a)anthracene	12.792	17872955	183.617 µg/mlm
15) chrysene	12.847f	18069681	184.428 µg/mlm
16) benzo(B)fluoranthene	14.092	18893122	189.467 µg/ml
17) benzo(k)fluoranthene	14.132f	16859064	175.363 µg/mlm
18) benzo(a)pyrene	14.432f	17319408	185.106 µg/ml
19) indeno(1,2,3-cd)pyrene	15.575f	18670540	194.062 µg/mlm
20) dibenzo(ah)anthracene	15.620f	16610466	180.145 µg/mlm
21) benzo(ghi)perylene	15.807f	17523714	188.129 µg/mlm
25) h c-9	2.680	13093571	173.259 µg/mlm
26) h c-10	3.833	13149397	172.603 µg/ml
27) naphthalene #2	5.523	14006239	175.249 µg/ml
28) c-12	5.697	12963152	171.352 µg/ml
29) 2-methylnaphthalene #2	6.418	13931230	172.095 µg/ml
30) c-14	7.213	12790598	169.622 µg/ml
31) c-16	8.543	12583573	168.461 µg/ml
32) c-18	9.738	12493898	168.985 µg/ml
33) c-19	10.295	12406524	171.313 µg/ml
34) c-20	10.825	12189358	171.737 µg/ml
36) c-22	11.822	12115679	172.966 µg/ml
37) c-24	12.738	11324691	171.289 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
38)	c-26	13.592	12045195	173.683	µg/ml
39)	c-28	14.385	11646376	173.584	µg/ml
40) h	c-30	15.122	11593413	170.863	µg/ml
41) h	c-36	17.010	10854654	179.925	µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.7

9

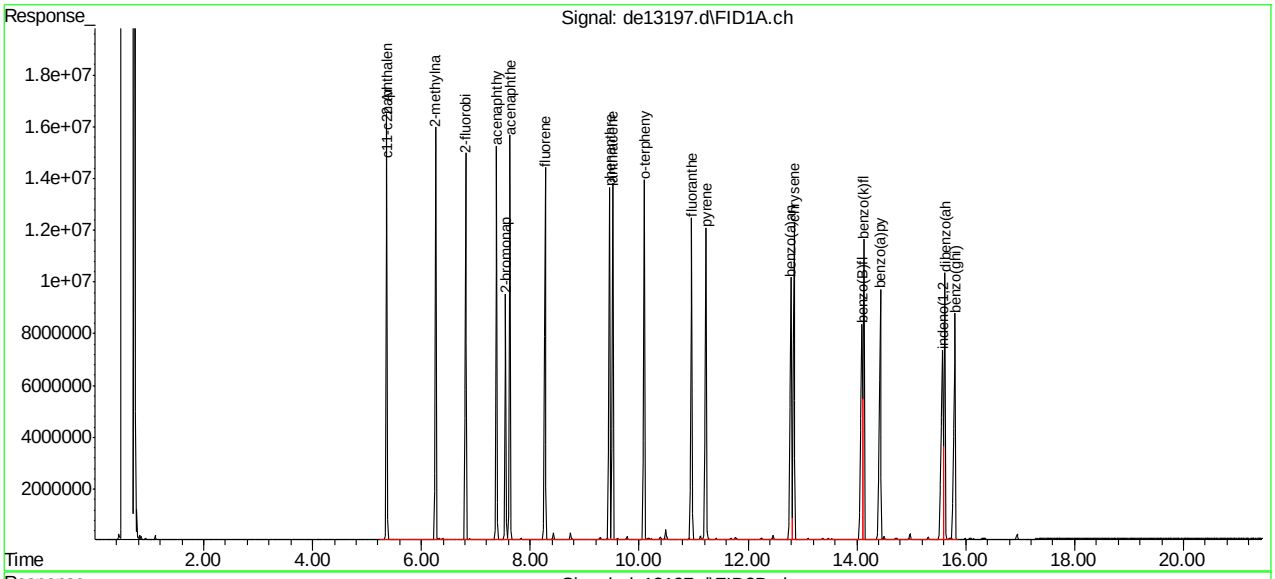
SGS ACCUTEST MC45816A

Quantitation Report (QT Reviewed)

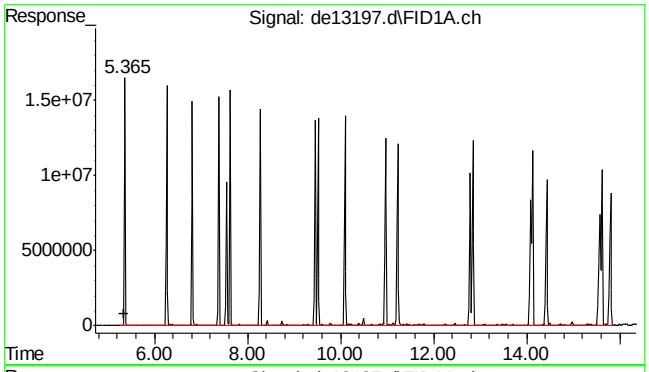
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

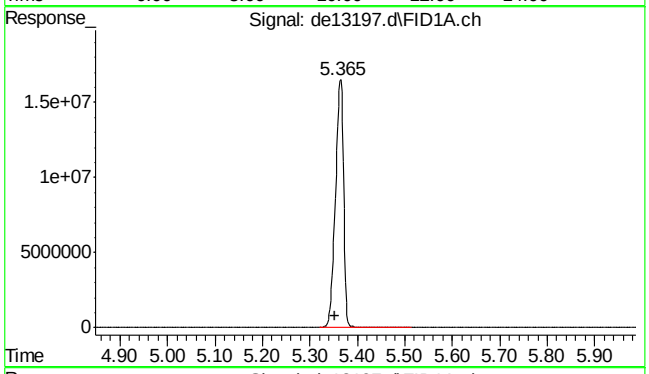


SGS ACCUTEST MC45816A



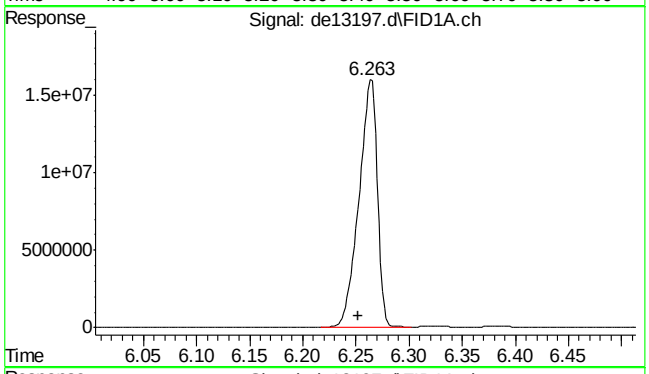
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 316974952
Conc: 191.66 µg/ml m



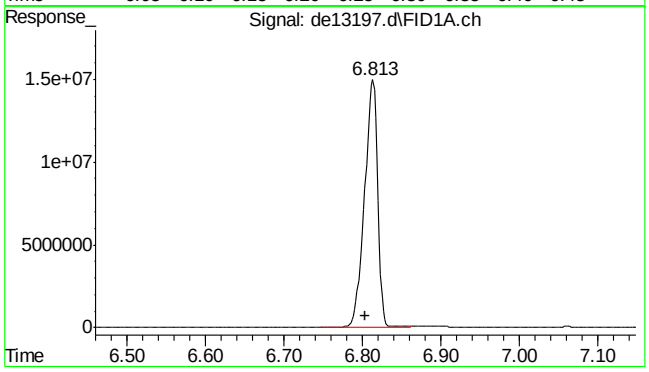
#2 naphthalene

R.T.: 5.365 min
Delta R.T.: 0.012 min
Response: 19450620
Conc: 187.64 µg/ml



#3 2-methylnaphthalene

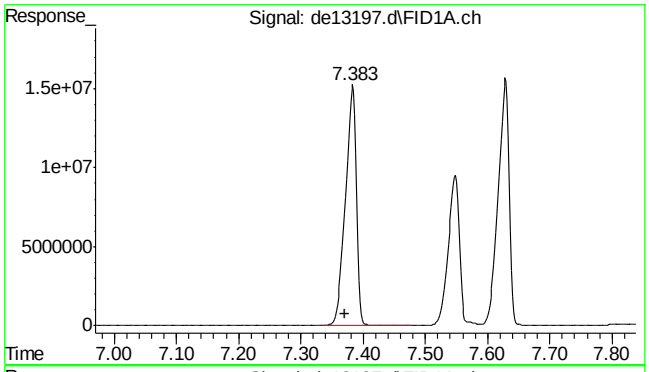
R.T.: 6.263 min
Delta R.T.: 0.011 min
Response: 19131536
Conc: 185.70 µg/ml



#4 2-fluorobiphenyl

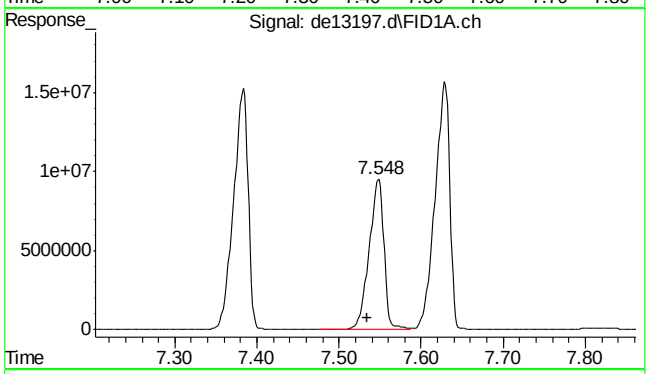
R.T.: 6.813 min
Delta R.T.: 0.010 min
Response: 17171697
Conc: 185.15 µg/ml

SGS ACCUTEST MC45816A



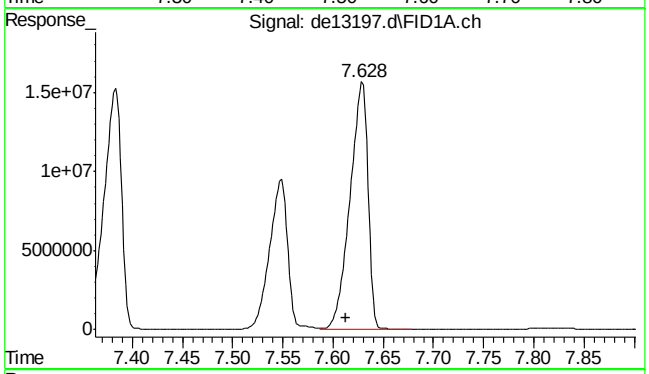
#5 acenaphthylene

R.T.: 7.383 min
Delta R.T.: 0.013 min
Response: 18686177
Conc: 184.33 µg/ml



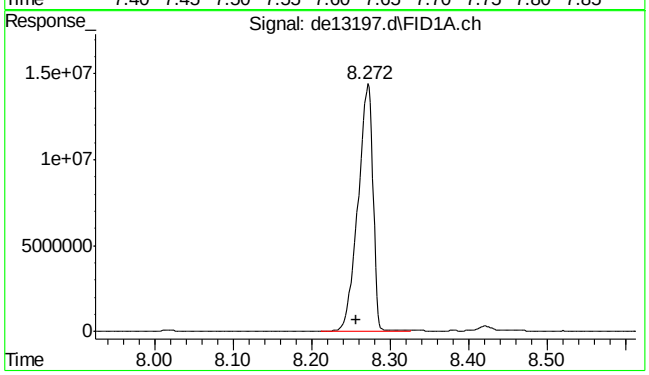
#6 2-bromonaphthalene

R.T.: 7.548 min
Delta R.T.: 0.013 min
Response: 11710947
Conc: 185.46 µg/ml



#7 acenaphthene

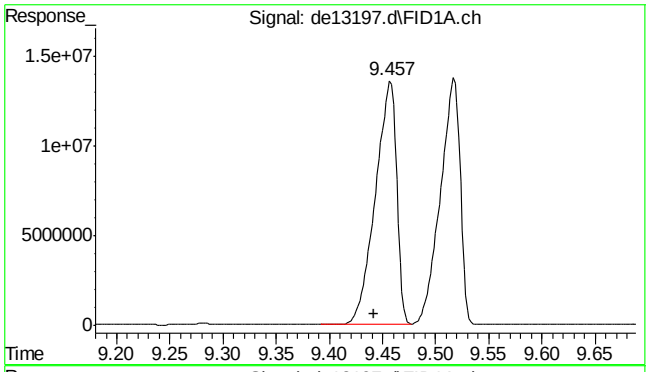
R.T.: 7.628 min
Delta R.T.: 0.015 min
Response: 19311298
Conc: 185.68 µg/ml



#8 fluorene

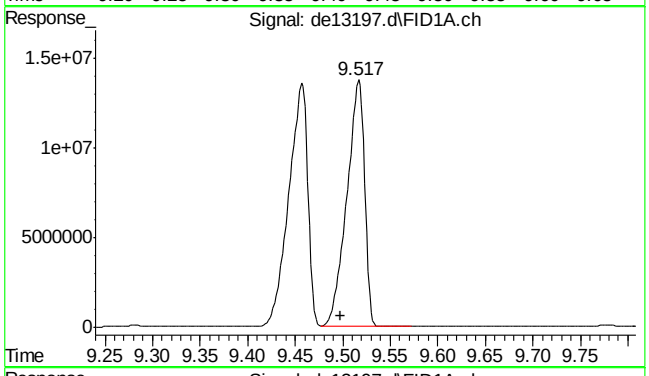
R.T.: 8.272 min
Delta R.T.: 0.015 min
Response: 18917157
Conc: 185.00 µg/ml

SGS ACCUTEST MC45816A



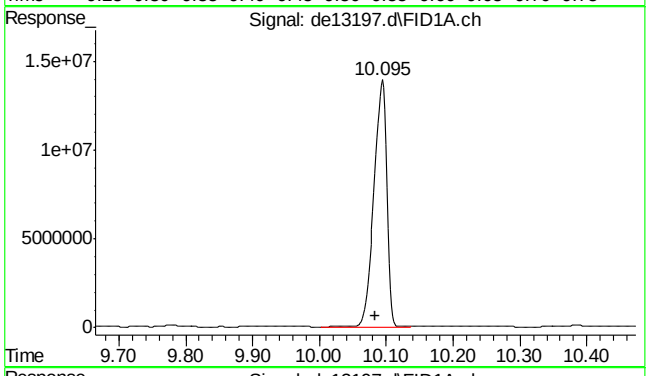
#9 phenanthrene

R.T.: 9.457 min
Delta R.T.: 0.015 min
Response: 18899419
Conc: 184.53 µg/ml



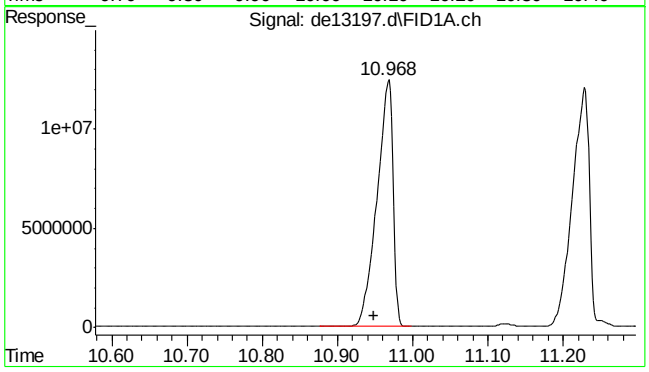
#10 anthracene

R.T.: 9.517 min
Delta R.T.: 0.019 min
Response: 17945874
Conc: 184.82 µg/ml



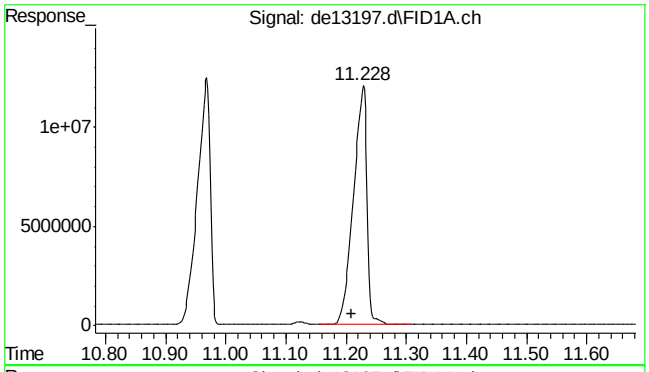
#11 o-terphenyl

R.T.: 10.095 min
Delta R.T.: 0.012 min
Response: 18995194
Conc: 184.43 µg/ml



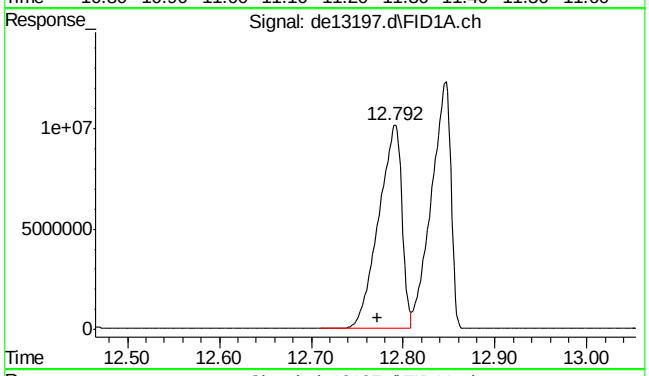
#12 fluoranthene

R.T.: 10.968 min
Delta R.T.: 0.020 min
Response: 18457513
Conc: 183.37 µg/ml



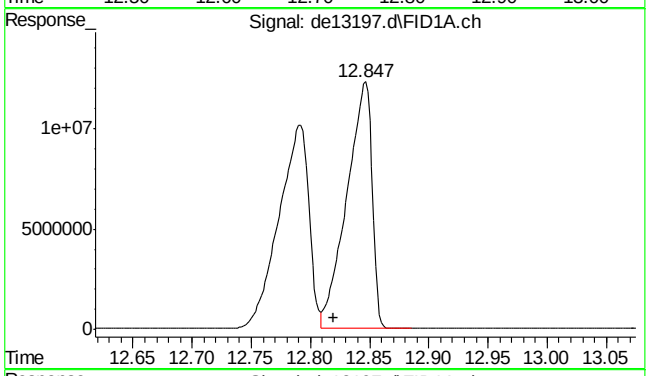
#13 pyrene

R.T.: 11.228 min
Delta R.T.: 0.018 min
Response: 18932497
Conc: 185.31 µg/ml



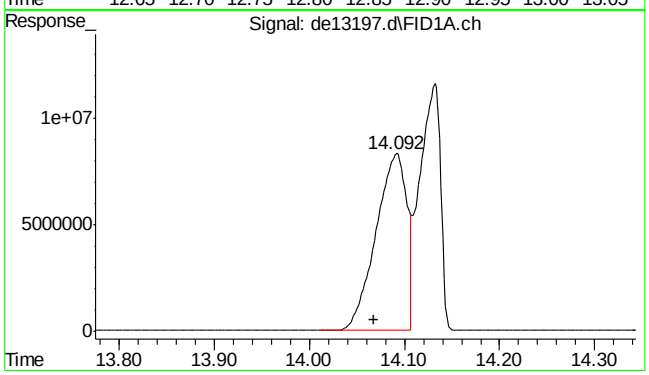
#14 benzo(a)anthracene

R.T.: 12.792 min
Delta R.T.: 0.020 min
Response: 17872955
Conc: 183.62 µg/ml m



#15 chrysene

R.T.: 12.847 min
Delta R.T.: 0.027 min
Response: 18069681
Conc: 184.43 µg/ml m



#16 benzo(B)fluoranthene

R.T.: 14.092 min
Delta R.T.: 0.024 min
Response: 18893122
Conc: 189.47 µg/ml

9.5.7

9

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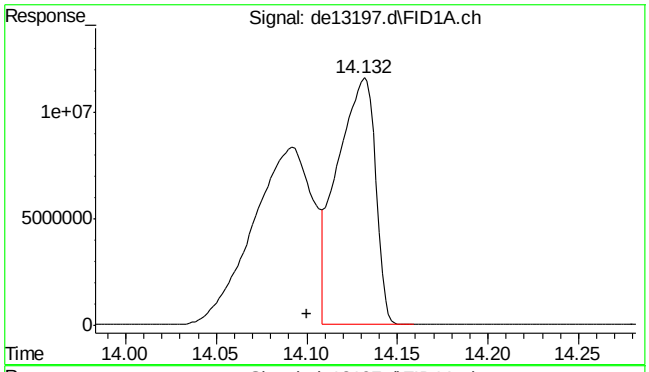
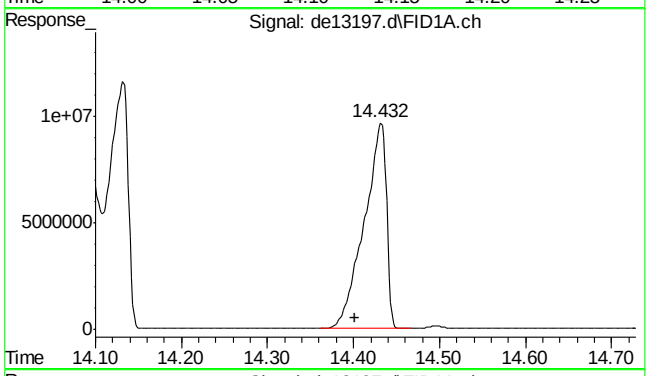


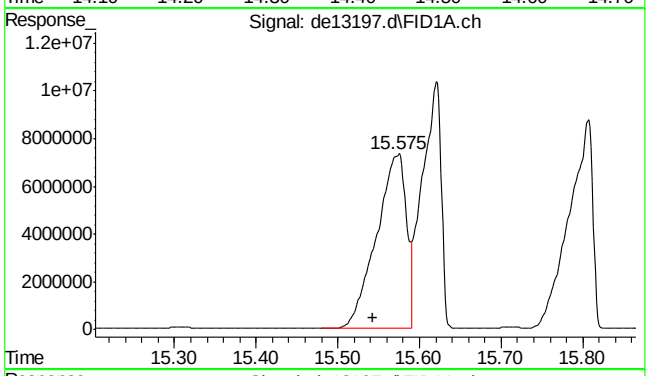
#17 benzo(k)fluoranthene

R.T.: 14.132 min
Delta R.T.: 0.032 min
Response: 16859064
Conc: 175.36 µg/ml m



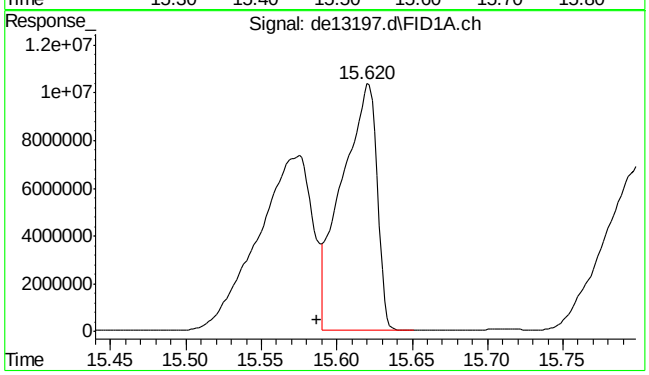
#18 benzo(a)pyrene

R.T.: 14.432 min
Delta R.T.: 0.030 min
Response: 17319408
Conc: 185.11 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.575 min
Delta R.T.: 0.032 min
Response: 18670540
Conc: 194.06 µg/ml m



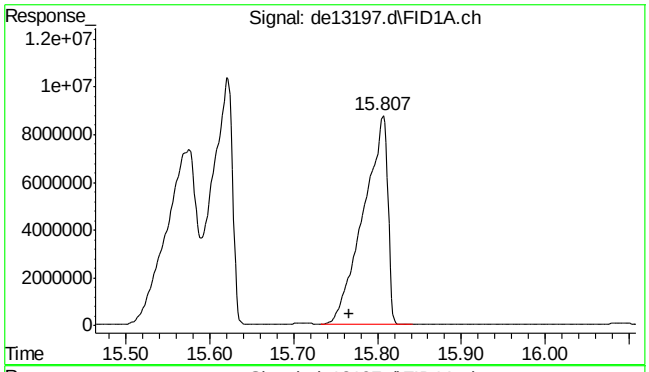
#20 dibenzo(ah)anthracene

R.T.: 15.620 min
Delta R.T.: 0.033 min
Response: 16610466
Conc: 180.15 µg/ml m

9.5.7

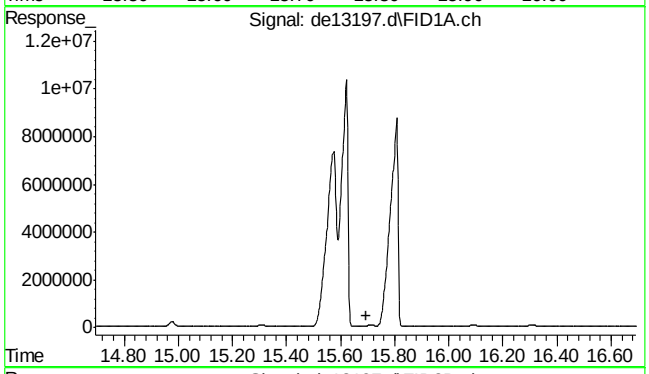
9

SGS ACCUTEST MC45816A



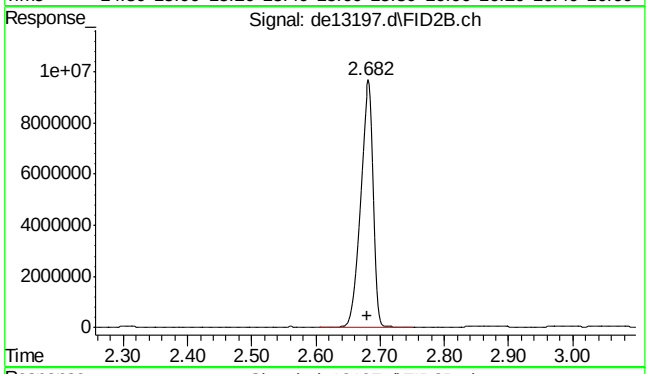
#21 benzo(ghi)perylene

R.T.: 15.807 min
Delta R.T.: 0.040 min
Response: 17523714
Conc: 188.13 µg/ml m



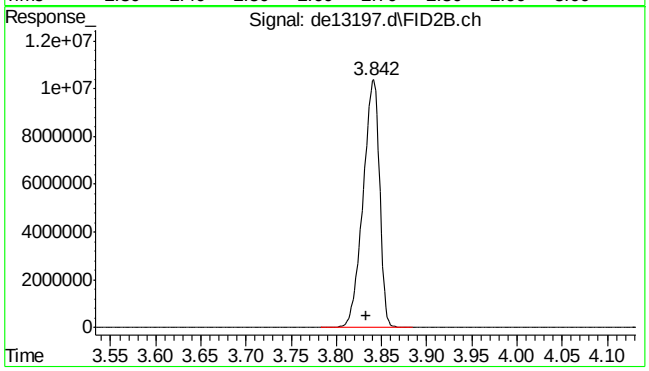
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 13093571
Conc: 173.26 µg/ml m



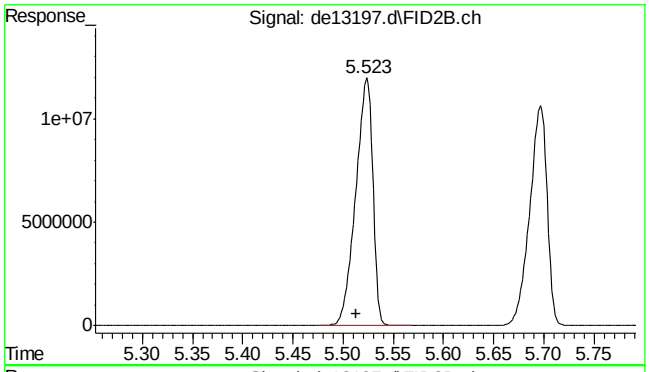
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 13149397
Conc: 172.60 µg/ml

9.5.7

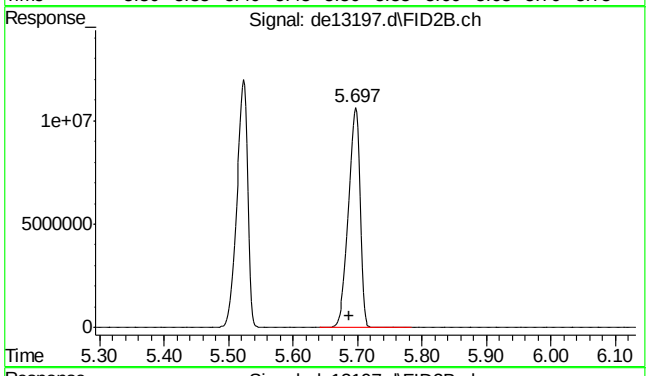
9

SGS ACCUTEST MC45816A



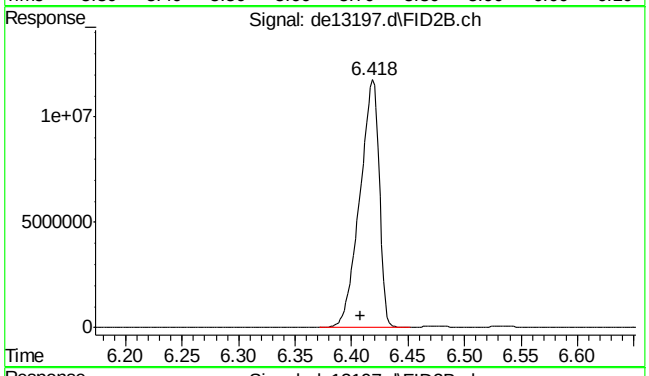
#27 naphthalene #2

R.T.: 5.523 min
Delta R.T.: 0.010 min
Response: 14006239
Conc: 175.25 µg/ml



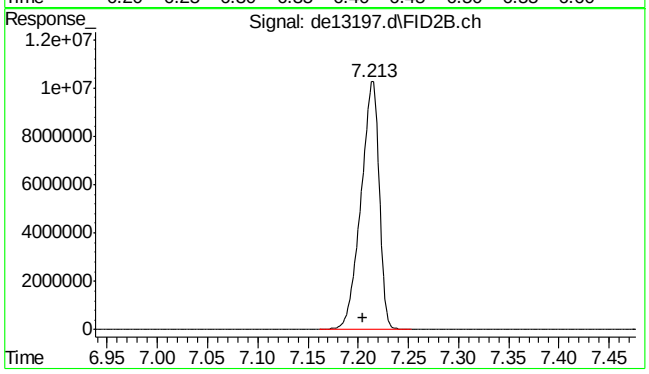
#28 c-12

R.T.: 5.697 min
Delta R.T.: 0.009 min
Response: 12963152
Conc: 171.35 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.418 min
Delta R.T.: 0.010 min
Response: 13931230
Conc: 172.09 µg/ml



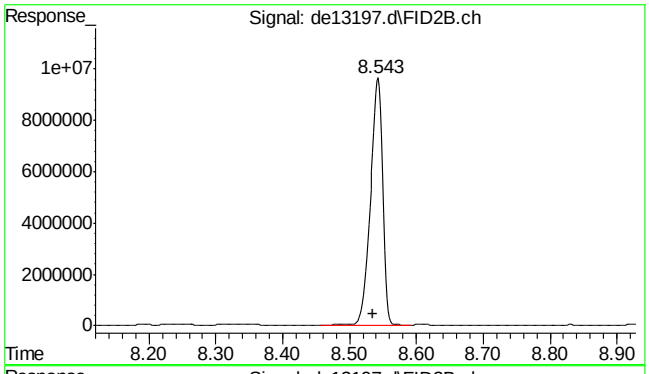
#30 c-14

R.T.: 7.213 min
Delta R.T.: 0.008 min
Response: 12790598
Conc: 169.62 µg/ml

9.5.7

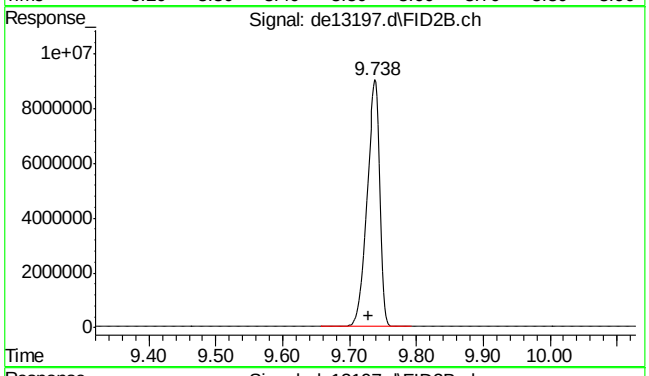
9

SGS ACCUTEST MC45816A



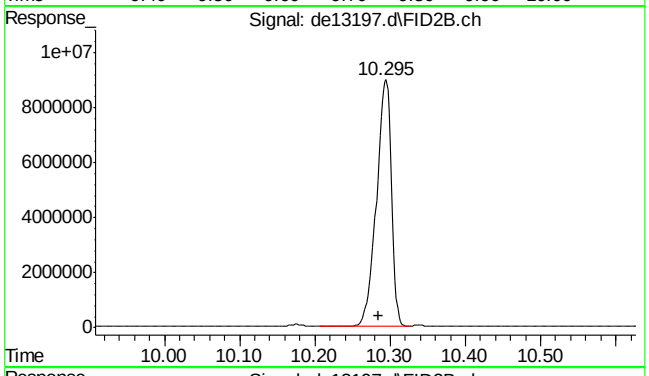
#31 c-16

R.T.: 8.543 min
Delta R.T.: 0.008 min
Response: 12583573
Conc: 168.46 µg/ml



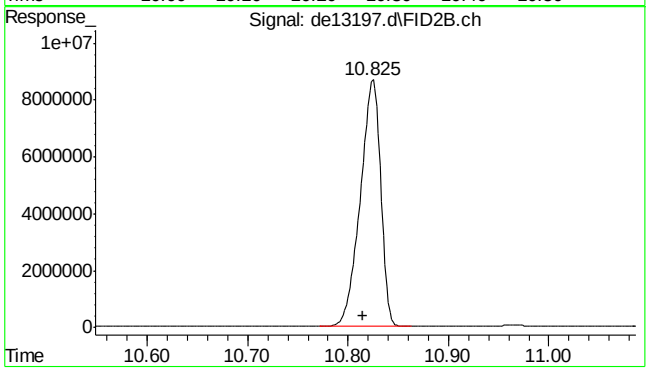
#32 c-18

R.T.: 9.738 min
Delta R.T.: 0.010 min
Response: 12493898
Conc: 168.99 µg/ml



#33 c-19

R.T.: 10.295 min
Delta R.T.: 0.010 min
Response: 12406524
Conc: 171.31 µg/ml



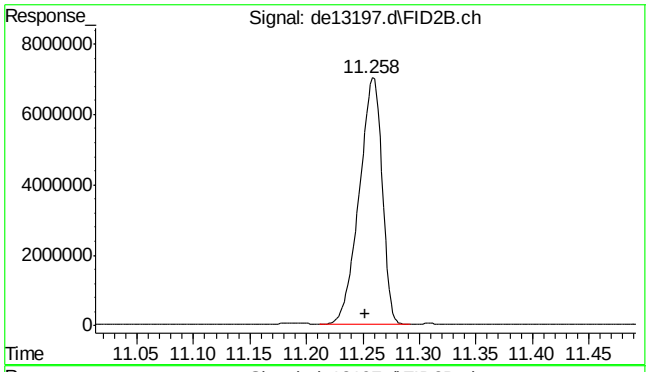
#34 c-20

R.T.: 10.825 min
Delta R.T.: 0.010 min
Response: 12189358
Conc: 171.74 µg/ml

9.5.7

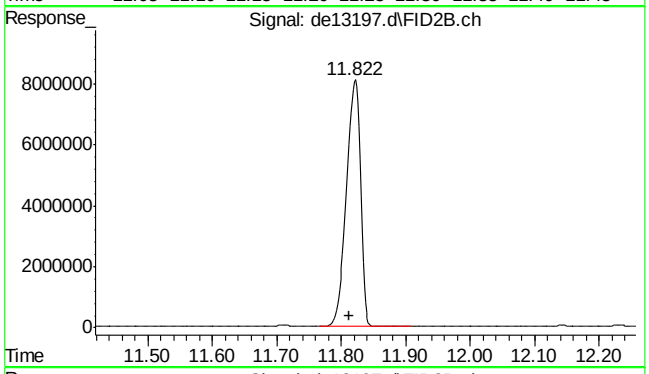
9

SGS ACCUTEST MC45816A



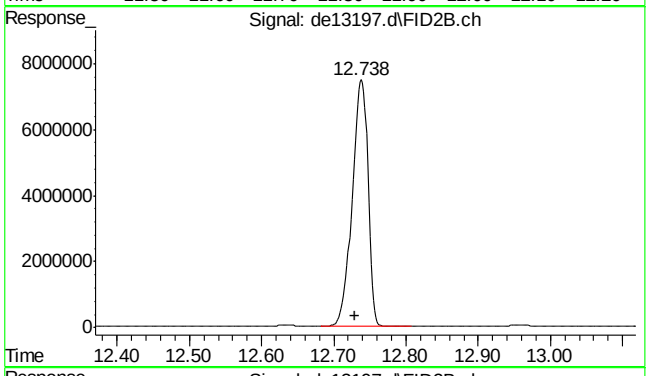
#35 1-chlorooctadecane

R.T.: 11.258 min
Delta R.T.: 0.006 min
Response: 9870838
Conc: 174.49 µg/ml



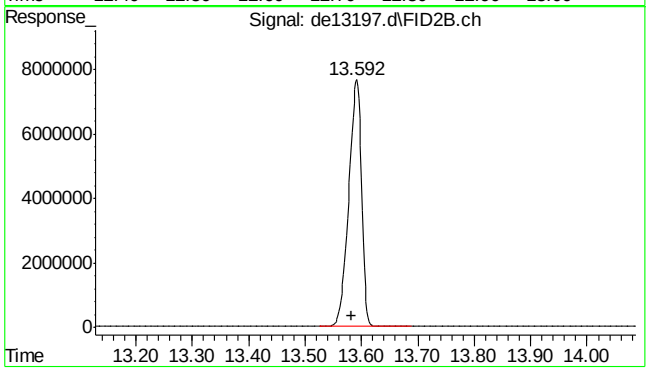
#36 c-22

R.T.: 11.822 min
Delta R.T.: 0.010 min
Response: 12115679
Conc: 172.97 µg/ml



#37 c-24

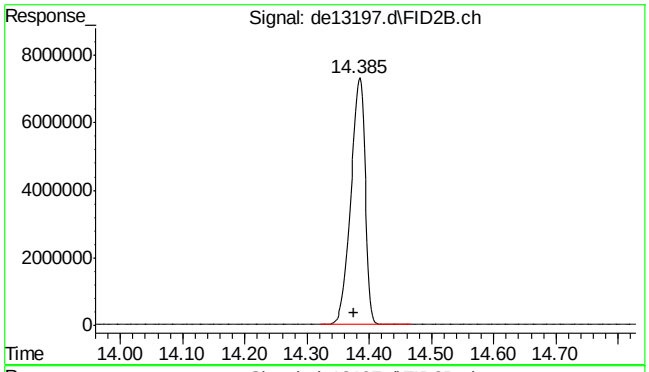
R.T.: 12.738 min
Delta R.T.: 0.008 min
Response: 11324691
Conc: 171.29 µg/ml



#38 c-26

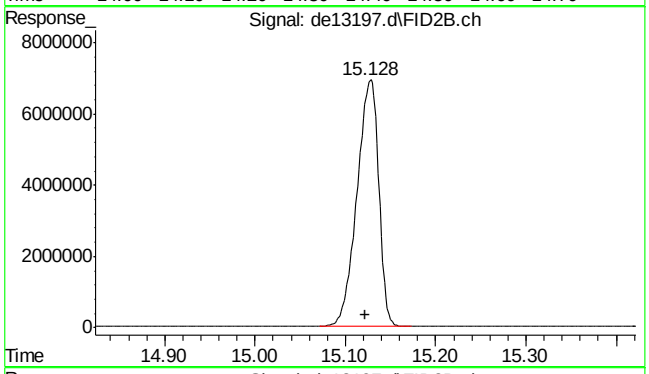
R.T.: 13.592 min
Delta R.T.: 0.010 min
Response: 12045195
Conc: 173.68 µg/ml

SGS ACCUTEST MC45816A



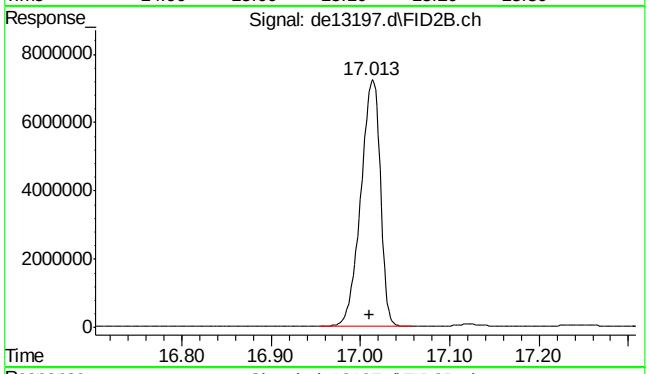
#39 c-28

R.T.: 14.385 min
Delta R.T.: 0.010 min
Response: 11646376
Conc: 173.58 µg/ml



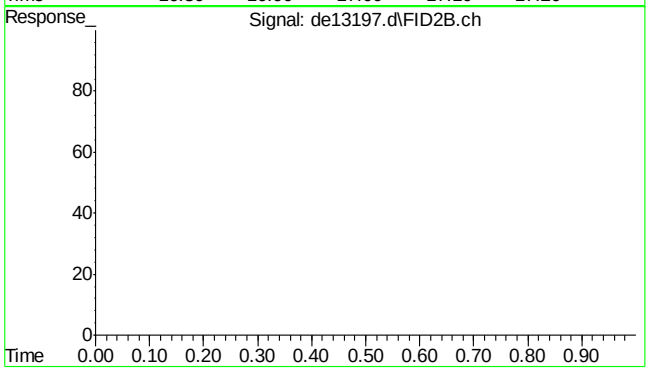
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 11593413
Conc: 170.86 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 10854654
Conc: 179.92 µg/ml m



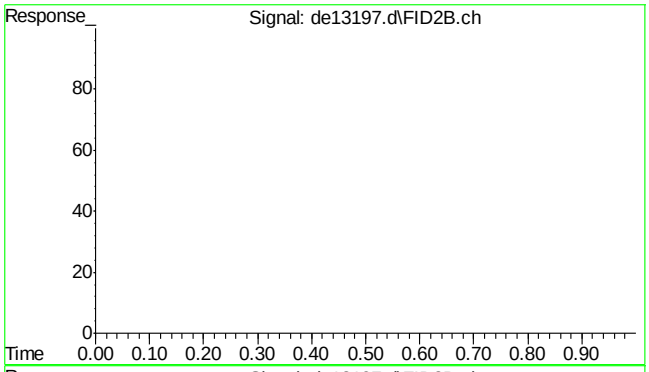
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.7

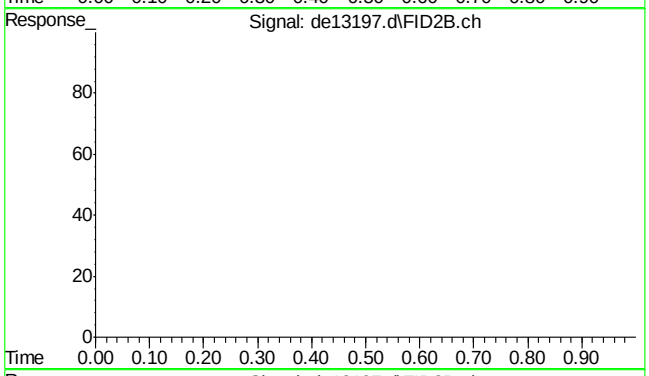
9

SGS ACCUTEST MC45816A



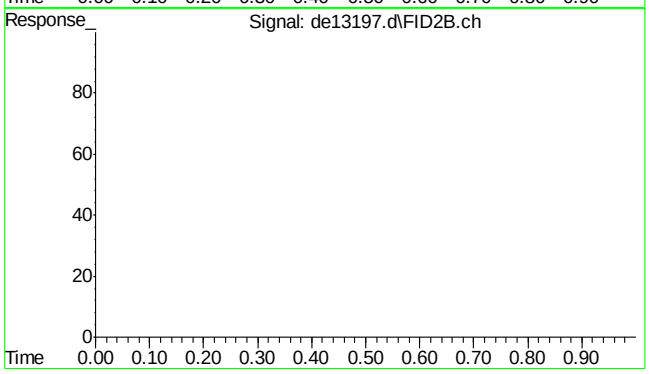
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

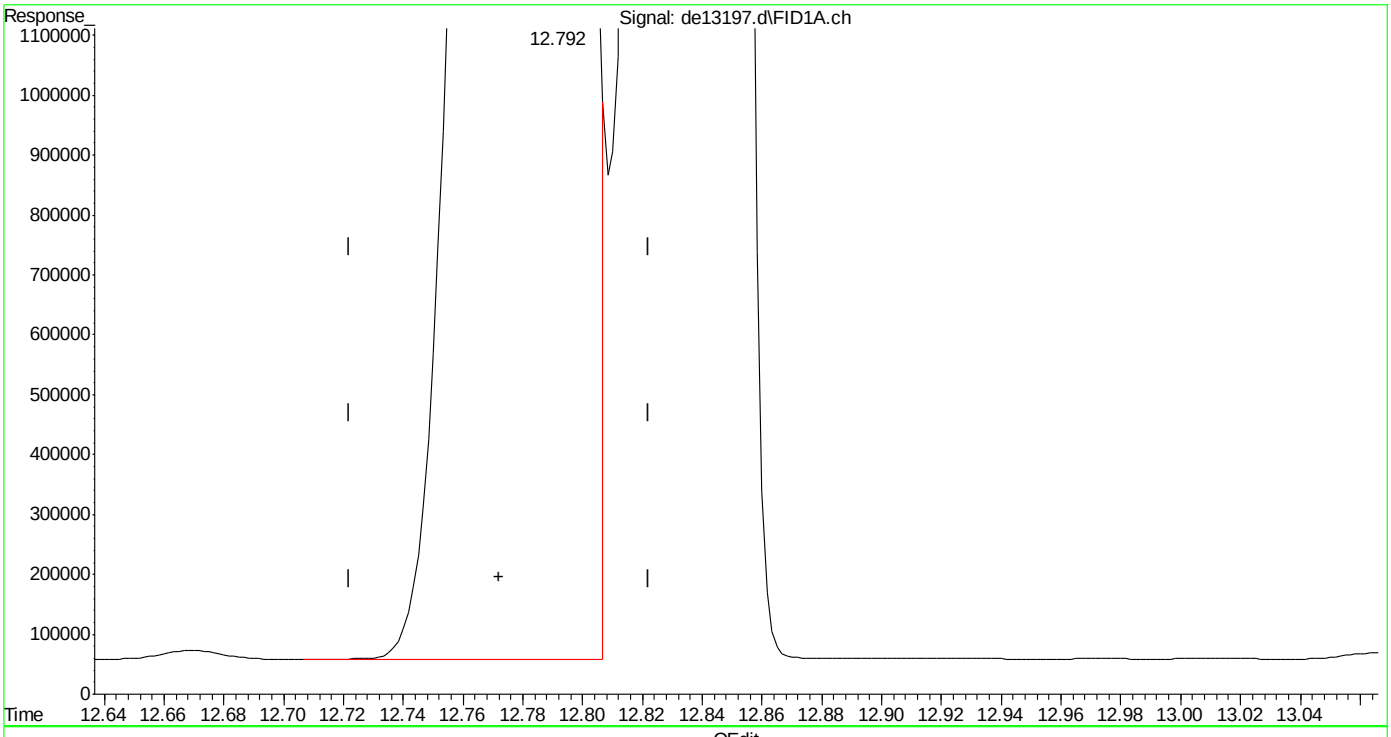
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.792min 182.685 µg/ml
response 17782201

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:14 2016

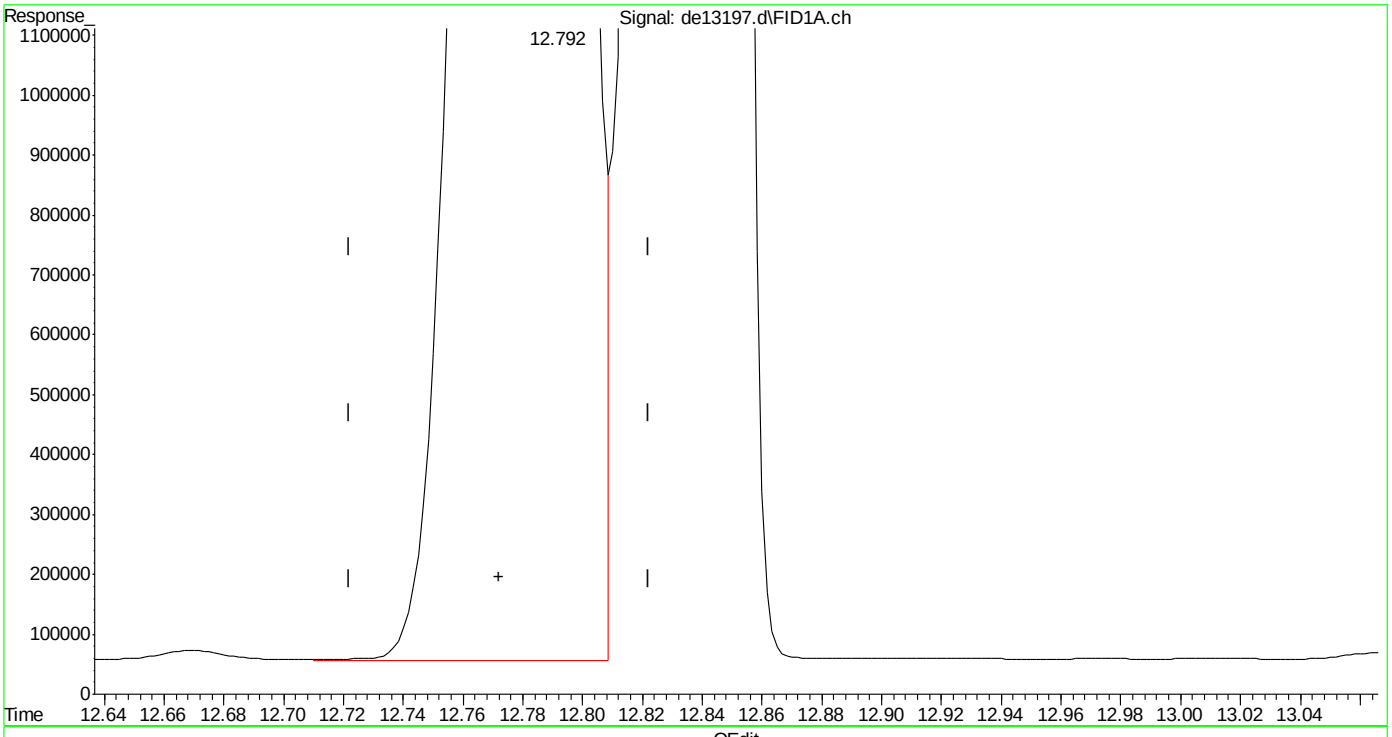
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.792min 183.617 µg/ml m
response 17872955

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:33 2016

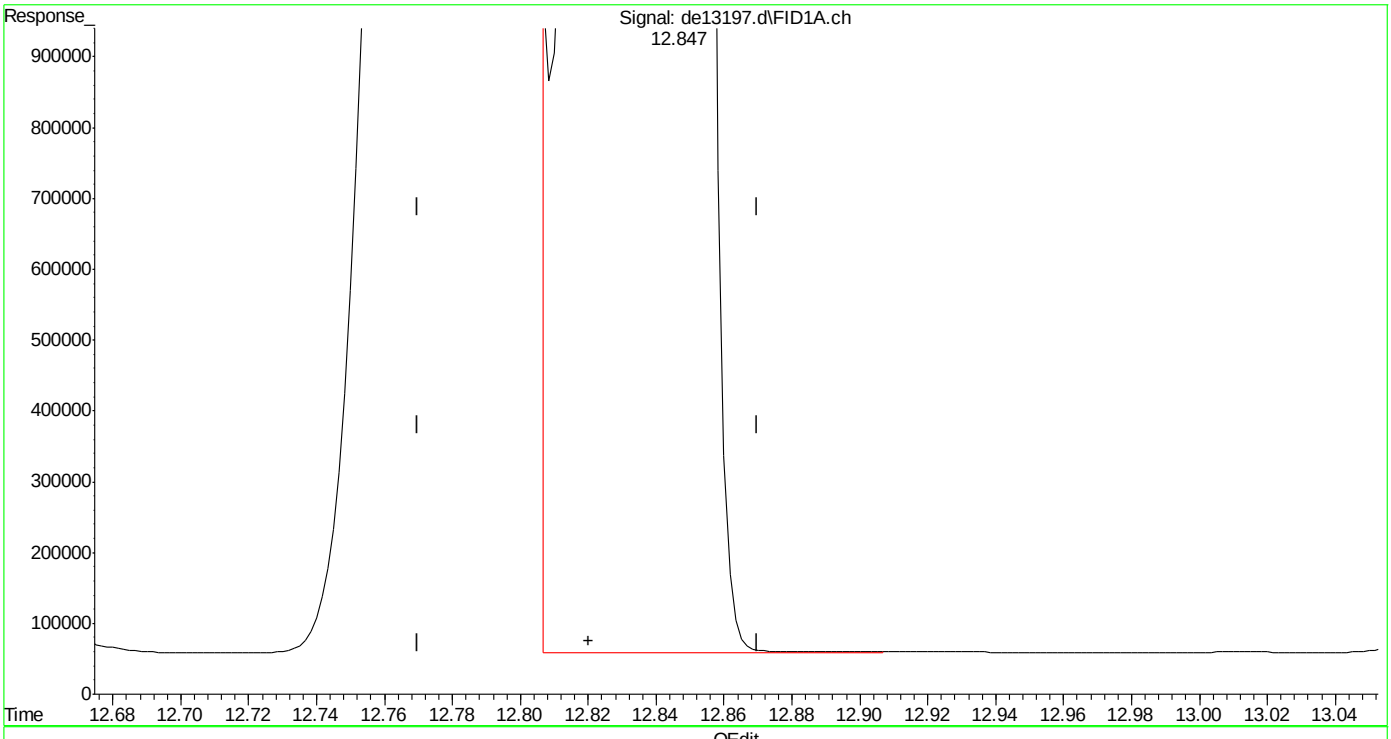
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.847min 185.235 µg/ml
response 18148724

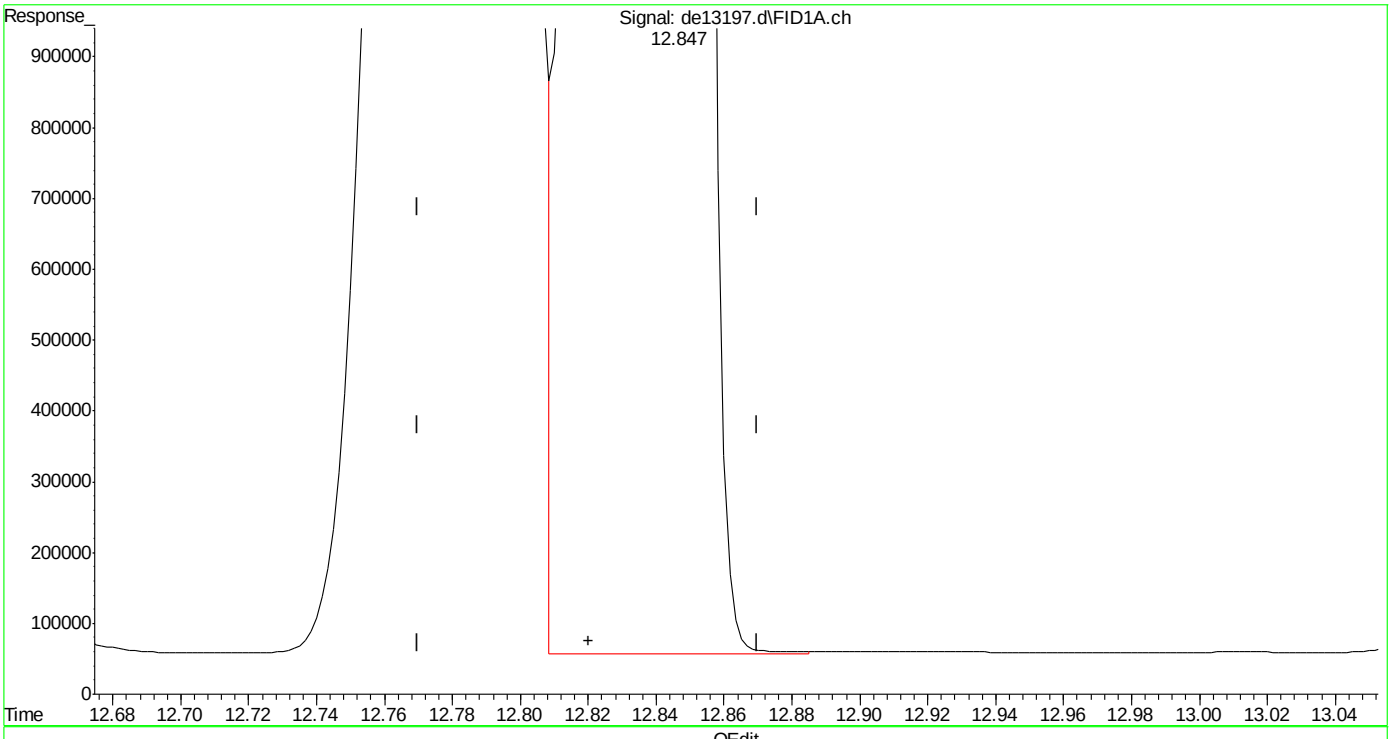
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.847min 184.428 µg/ml m
response 18069681

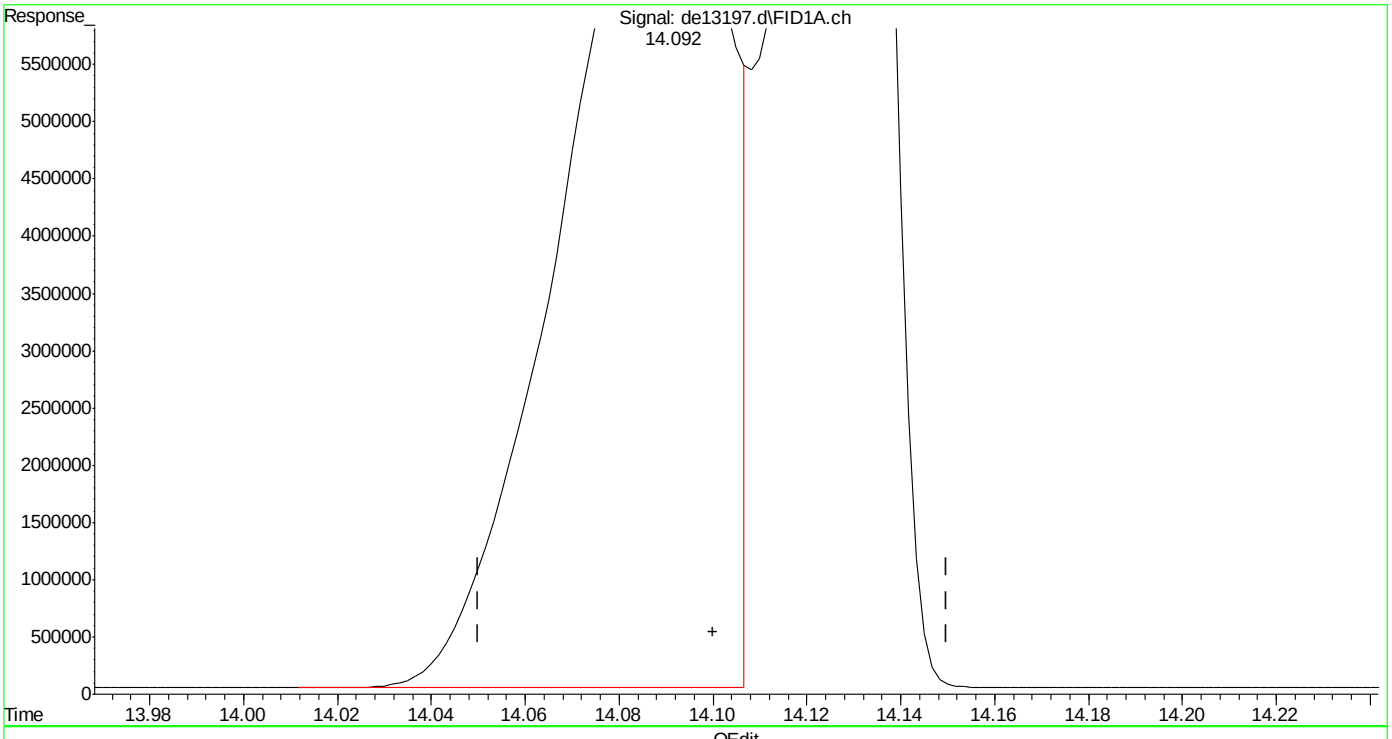
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.092min 196.520 µg/ml
response 18893122

(+) = Expected Retention Time

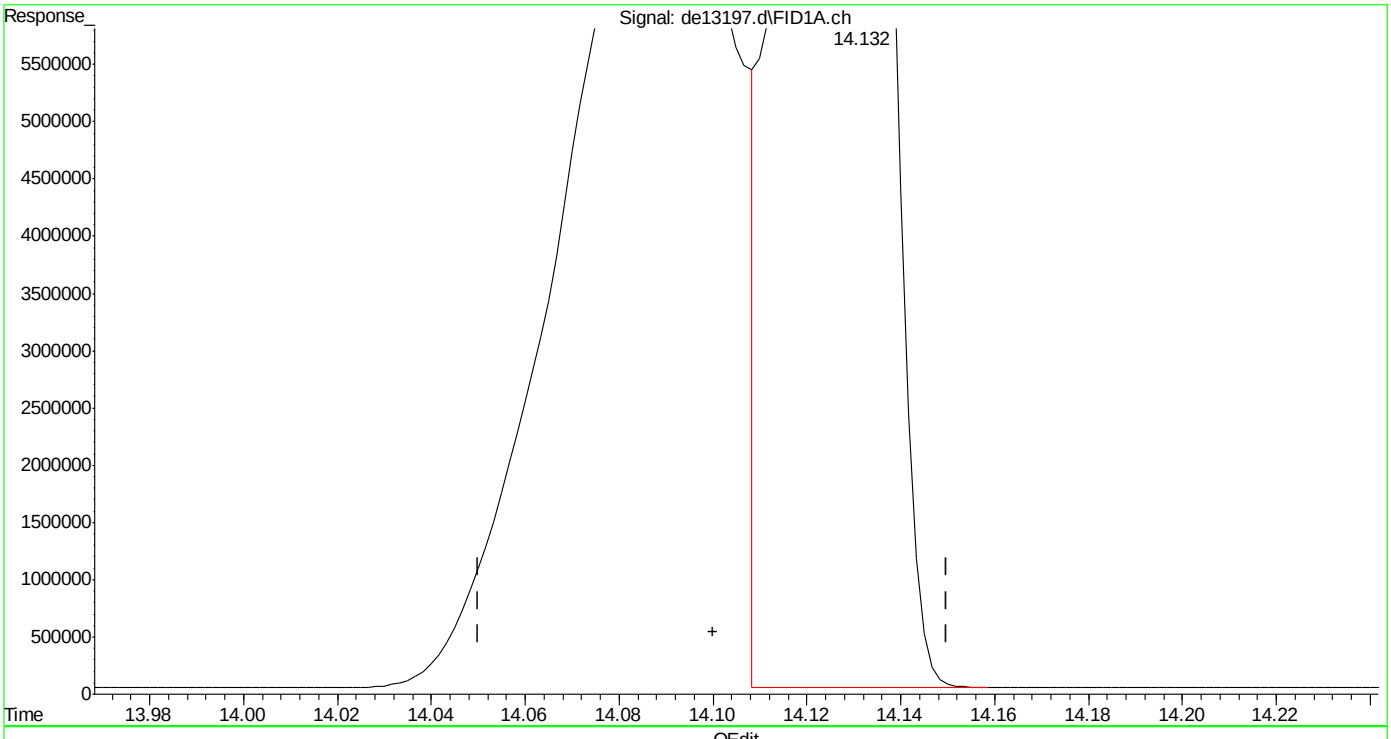
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.132min 175.363 µg/ml m
response 16859064

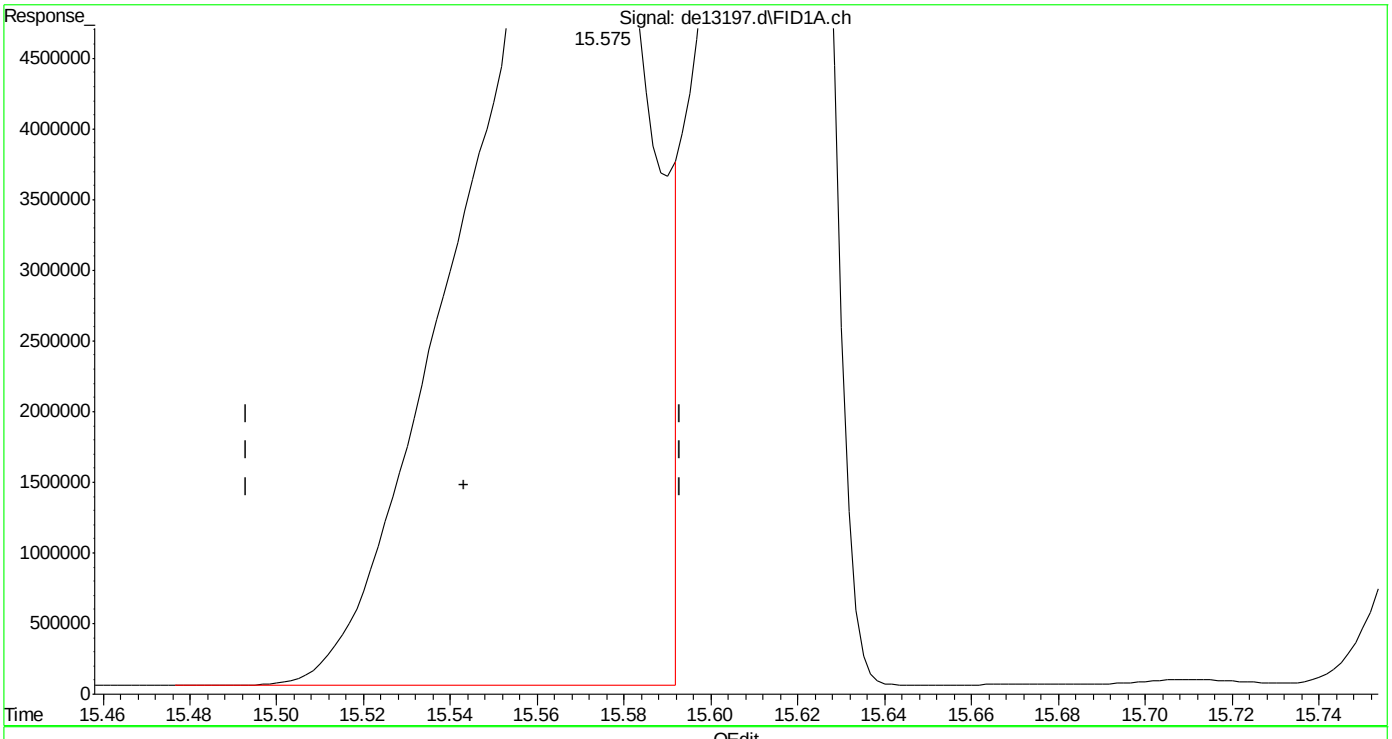
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.575min 197.907 µg/ml
response 19040403

(+) = Expected Retention Time

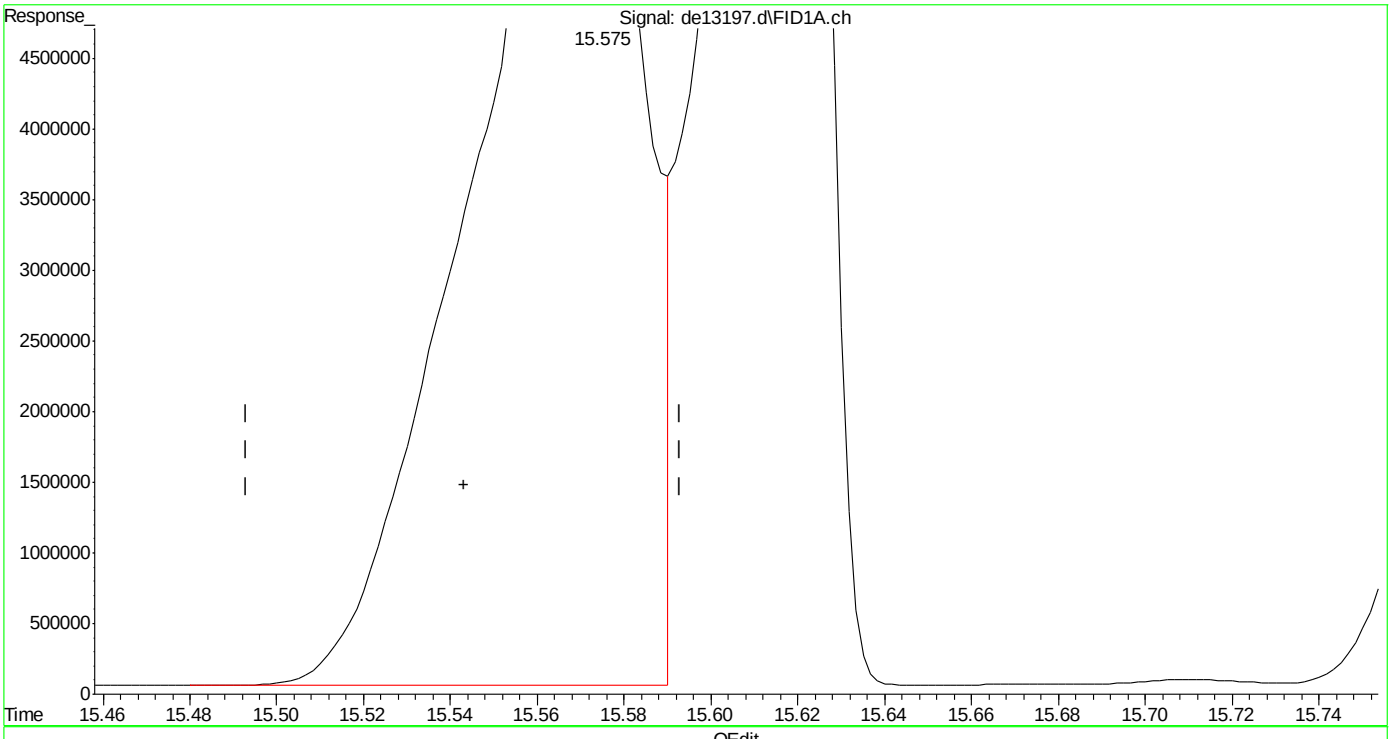
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.575min 194.062 µg/ml m
response 18670540

(+) = Expected Retention Time

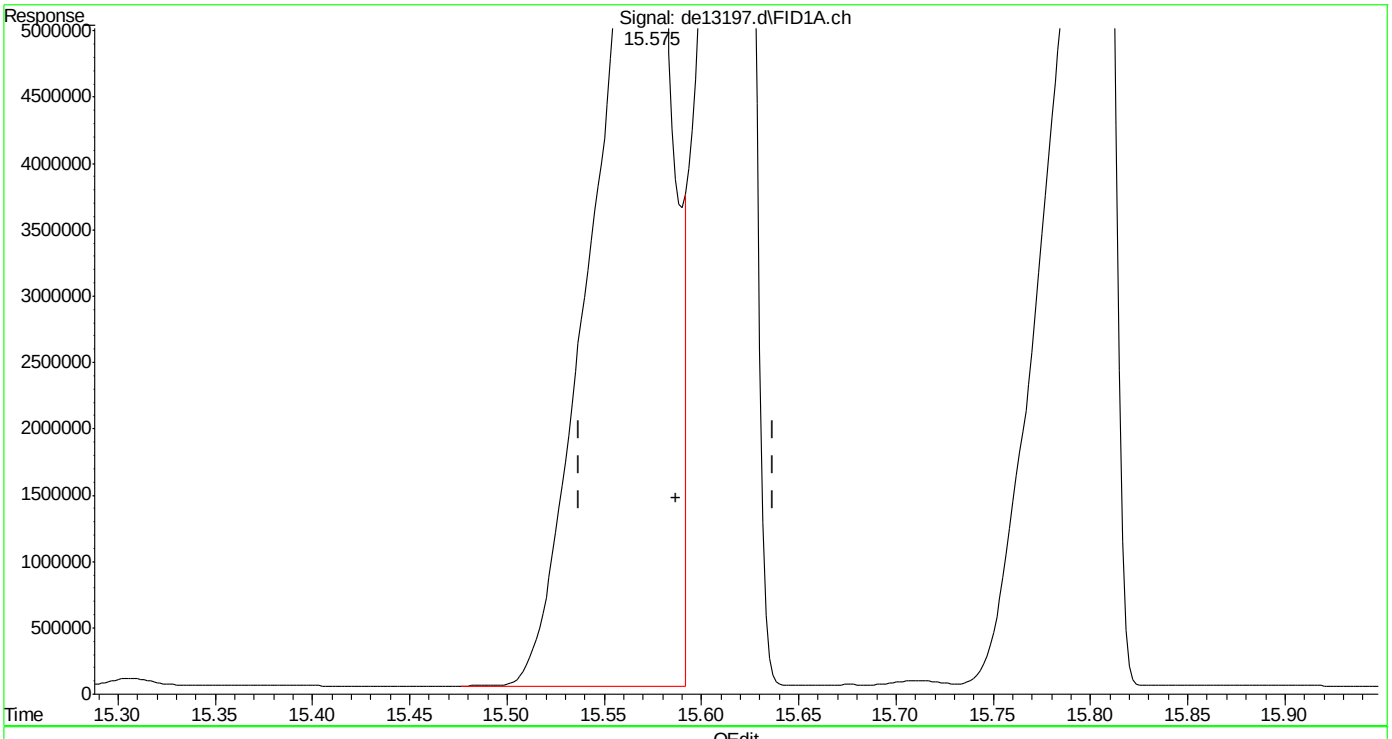
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.575min 206.498 µg/ml
response 19040403

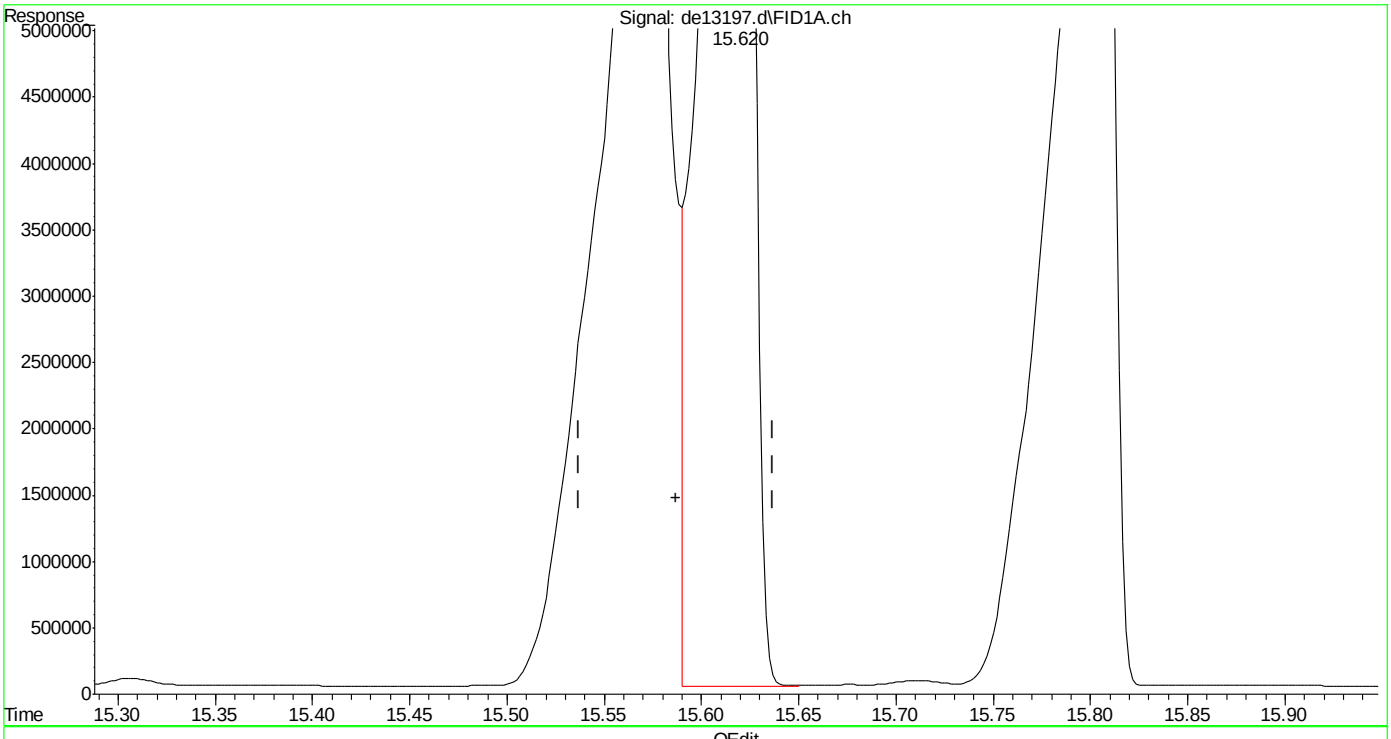
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.620min 180.145 µg/ml m
response 16610466

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 11:05:26 2016

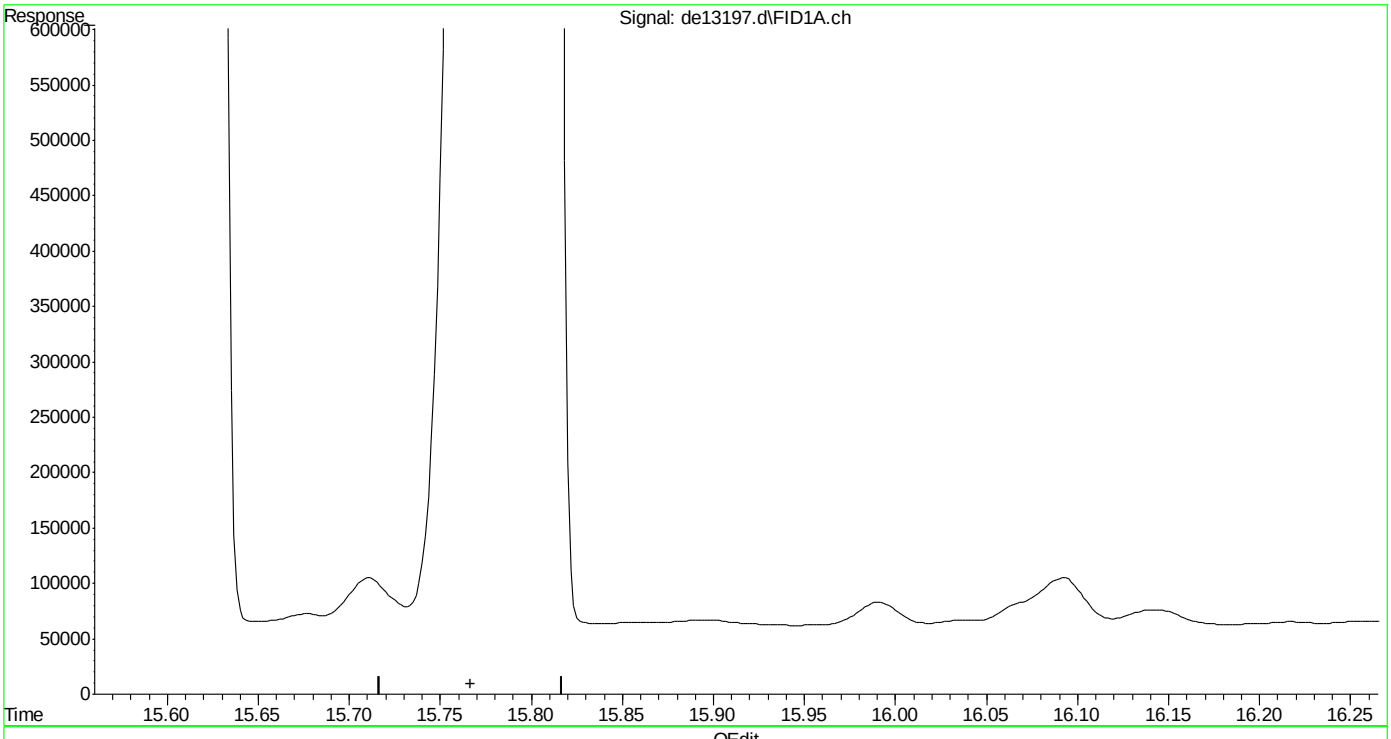
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) benzo(ghi)perylene
0.000min 0.000 µg/ml d
response 0

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:42 2016

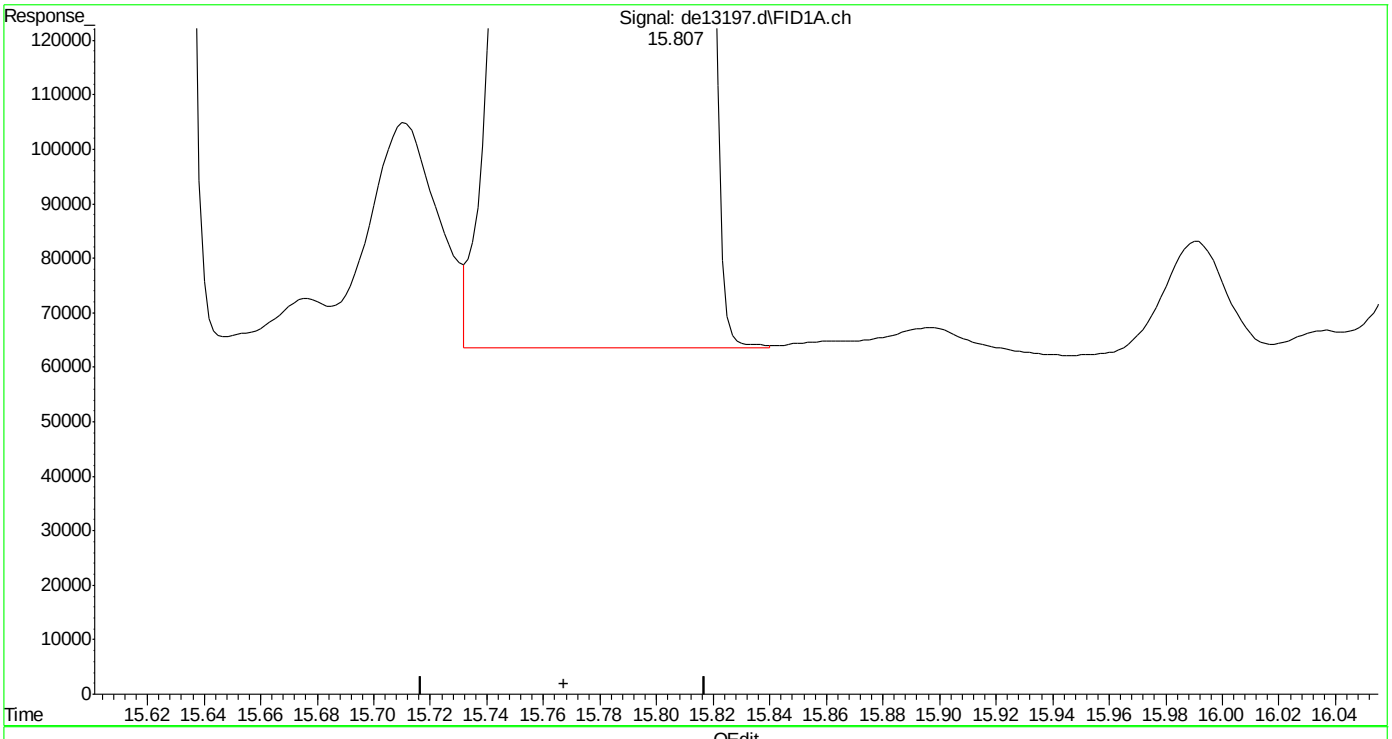
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) benzo(ghi)perylene
15.807min 188.129 µg/ml m
response 17523714

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 11:05:54 2016

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.807	4785763	51.889 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 259.44%#	
6) s 2-bromonaphthalene	7.540	3261205	51.967 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 259.83%#	
11) s o-terphenyl	10.085	5227790	51.039 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 255.20%#	
35) s 1-chlorooctadecane	11.252	2968966	52.479 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 262.39%#	
Target Compounds			
2) naphthalene	5.357	5321324	51.593 µg/ml
3) 2-methylnaphthalene	6.255	5225758	50.992 µg/ml
5) acenaphthylene	7.373	5189401	51.584 µg/ml
7) acenaphthene	7.617	5299977	51.269 µg/ml
8) fluorene	8.260	5216935	51.364 µg/ml
9) phenanthrene	9.443	5176102	50.864 µg/ml
10) anthracene	9.502	5163442	53.227 µg/ml
12) fluoranthene	10.953	5147188	51.502 µg/ml
13) pyrene	11.210	5076986	50.038 µg/ml
14) benzo(a)anthracene	12.773	5010585	51.829 µg/mlm
15) chrysene	12.822	4818393	49.500 µg/mlm
16) benzo(B)fluoranthene	14.070	5126155	51.778 µg/mlm
17) benzo(k)fluoranthene	14.102	4808431	50.882 µg/mlm
18) benzo(a)pyrene	14.405	4486318	48.535 µg/ml
19) indeno(1,2,3-cd)pyrene	15.543	4825283	50.976 µg/ml
20) dibenzo(ah)anthracene	15.588	4714989	51.587 µg/ml
21) benzo(ghi)perylene	15.768	4765990	51.735 µg/ml
25) h c-9	2.680	3669865	49.679 µg/mlm
26) h c-10	3.833	3682081	49.844 µg/ml
27) naphthalene #2	5.515	4035939	50.530 µg/ml
28) c-12	5.688	3625160	49.073 µg/ml
29) 2-methylnaphthalene #2	6.408	3954192	49.080 µg/ml
30) c-14	7.205	3605226	48.804 µg/ml
31) c-16	8.535	3538485	47.900 µg/ml
32) c-18	9.730	3494684	47.307 µg/ml
33) c-19	10.285	3424371	51.258 µg/ml
34) c-20	10.817	3390870	50.757 µg/ml
36) c-22	11.812	3335369	49.926 µg/ml
37) c-24	12.730	3275936	49.036 µg/ml
38) c-26	13.582	3251556	48.671 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.375	3204302	47.964	µg/ml
40) h	c-30	15.122	3143578	47.055	µg/ml
41) h	c-36	17.010	2933493	43.910	µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.8

9

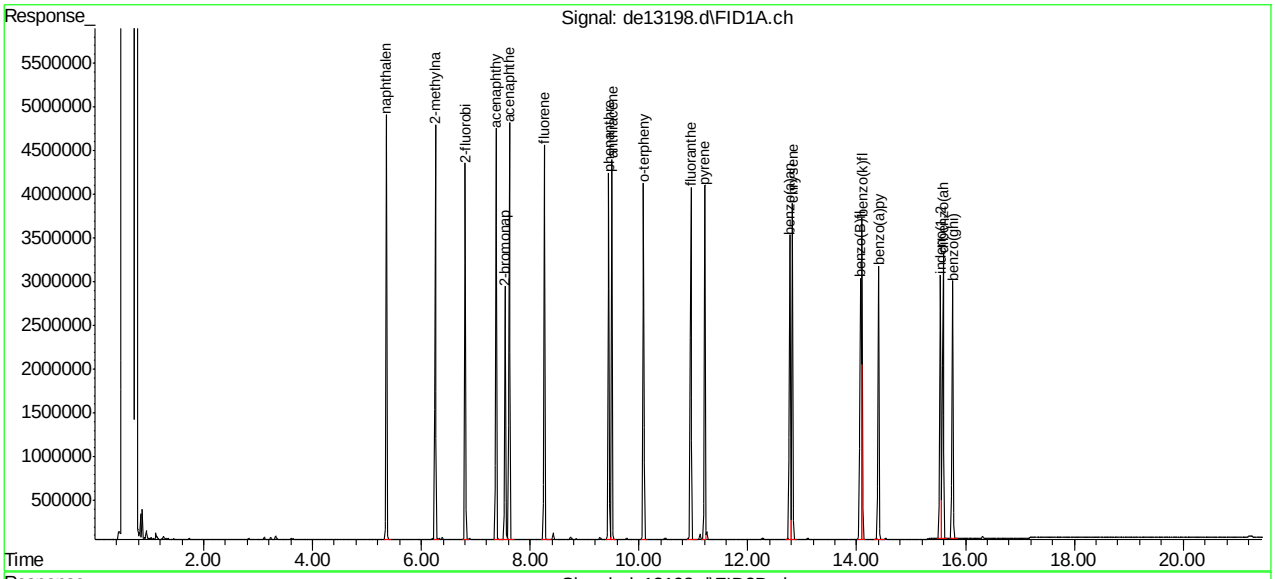
SGS ACCUTEST MC45816A

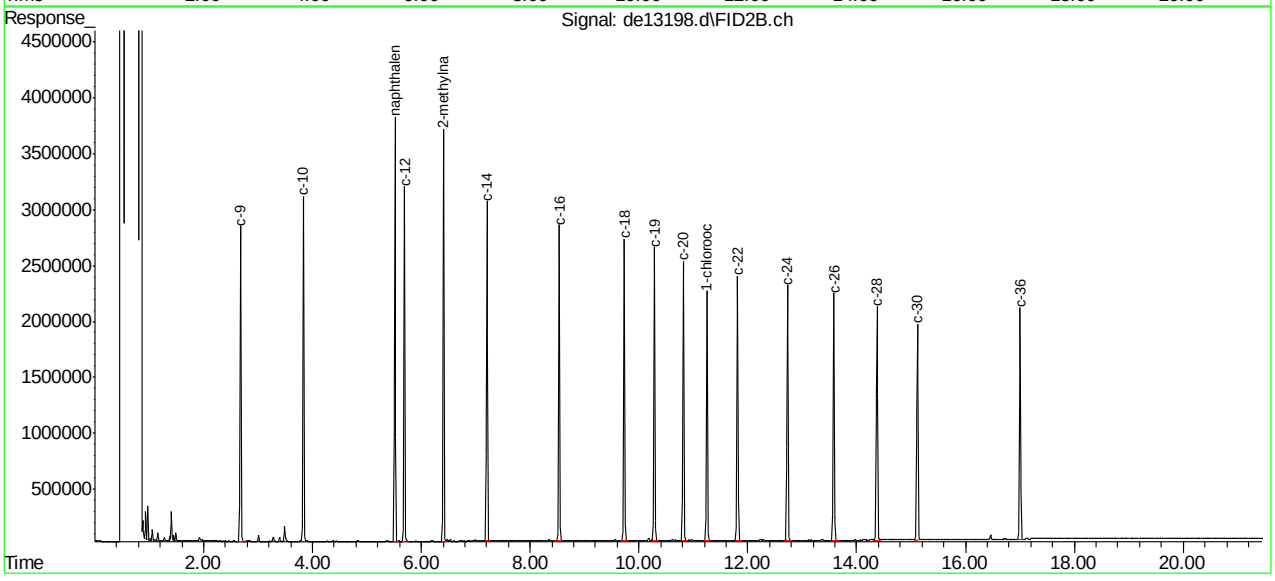
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

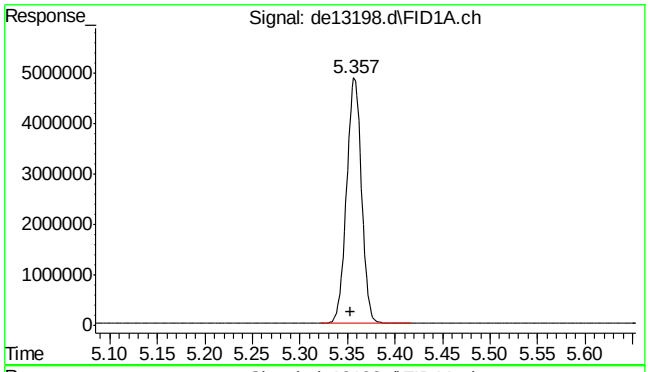
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



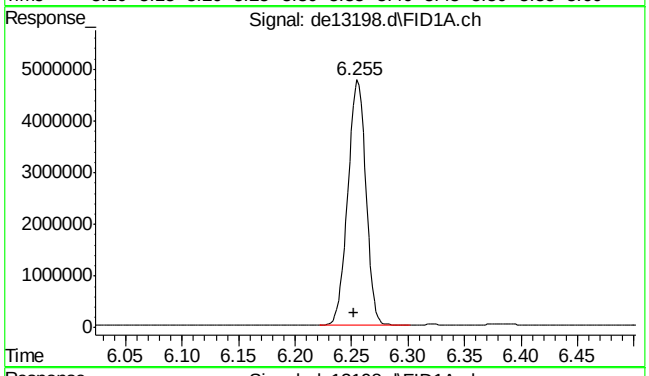


EPH160204W.M Fri Feb 05 14:30:14 2016 Page: 3



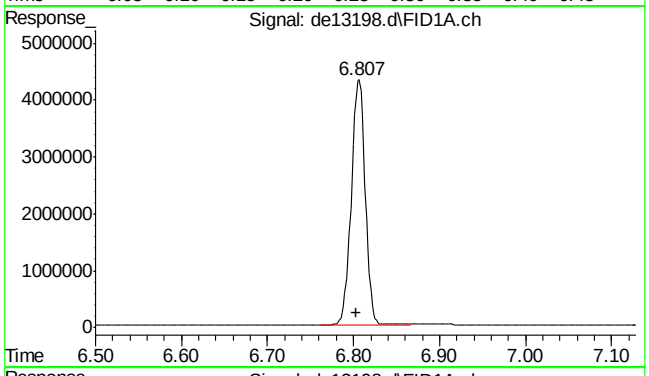
#2 naphthalene

R.T.: 5.357 min
Delta R.T.: 0.004 min
Response: 5321324
Conc: 51.59 µg/ml



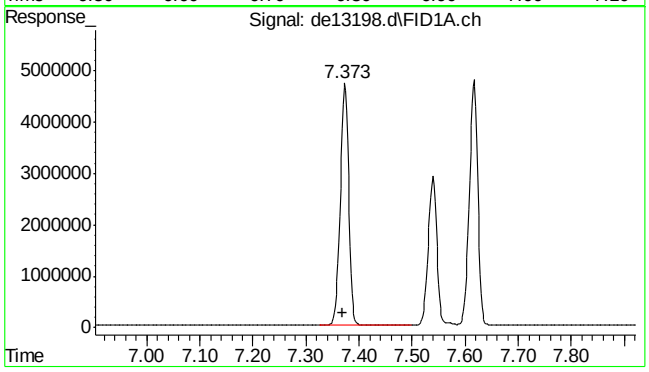
#3 2-methylnaphthalene

R.T.: 6.255 min
Delta R.T.: 0.003 min
Response: 5225758
Conc: 50.99 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 4785763
Conc: 51.89 µg/ml



#5 acenaphthylene

R.T.: 7.373 min
Delta R.T.: 0.003 min
Response: 5189401
Conc: 51.58 µg/ml

9.5.8

9

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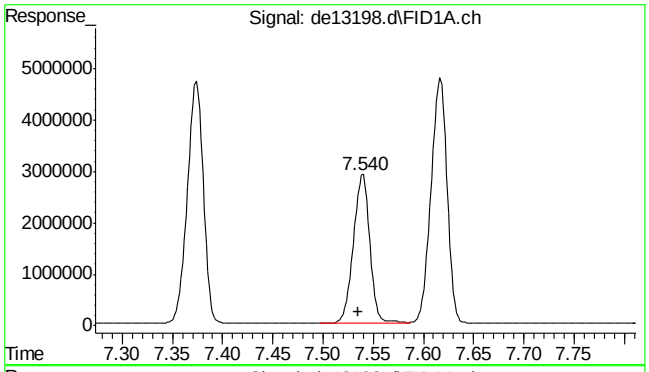
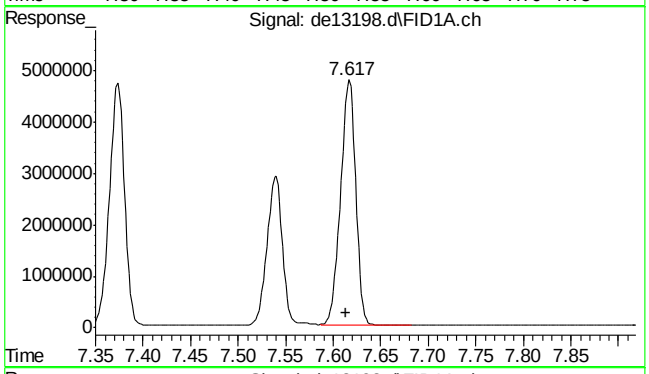


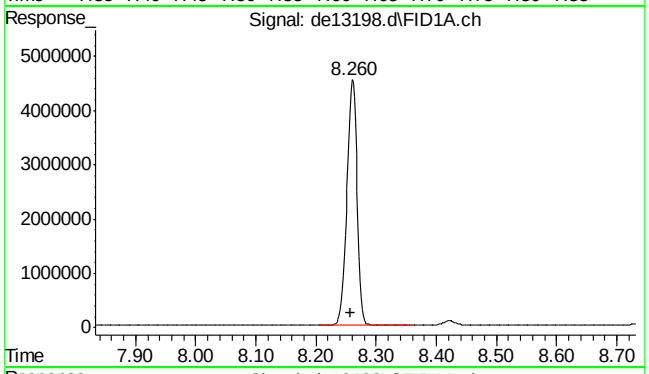
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 3261205
Conc: 51.97 µg/ml



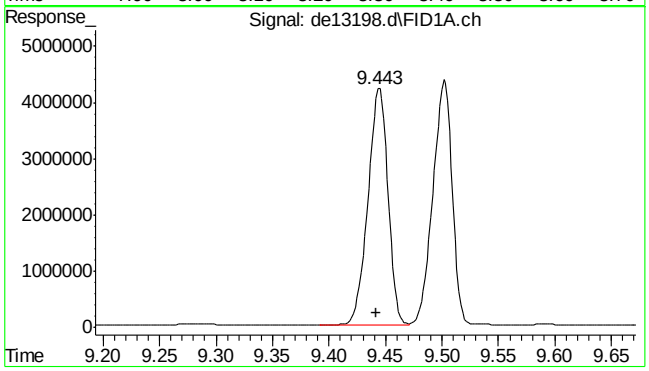
#7 acenaphthene

R.T.: 7.617 min
Delta R.T.: 0.004 min
Response: 5299977
Conc: 51.27 µg/ml



#8 fluorene

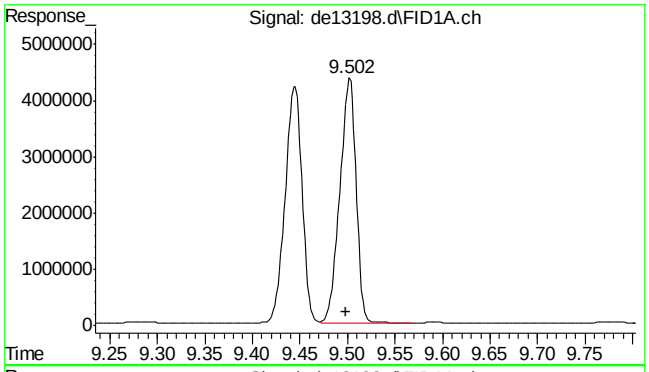
R.T.: 8.260 min
Delta R.T.: 0.003 min
Response: 5216935
Conc: 51.36 µg/ml



#9 phenanthrene

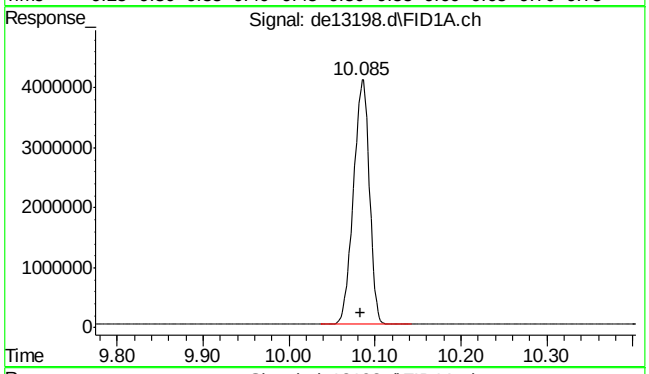
R.T.: 9.443 min
Delta R.T.: 0.001 min
Response: 5176102
Conc: 50.86 µg/ml

SGS ACCUTEST MC45816A



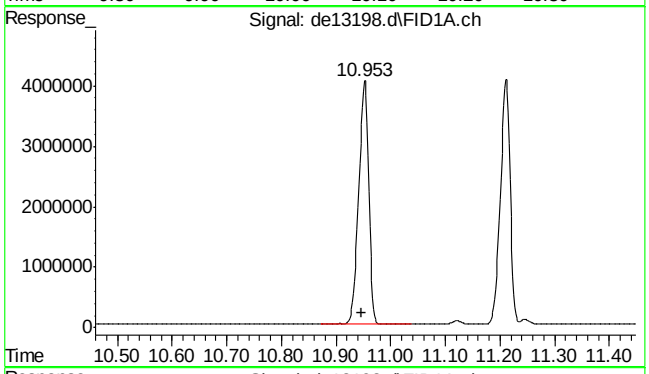
#10 anthracene

R.T.: 9.502 min
Delta R.T.: 0.004 min
Response: 5163442
Conc: 53.23 µg/ml



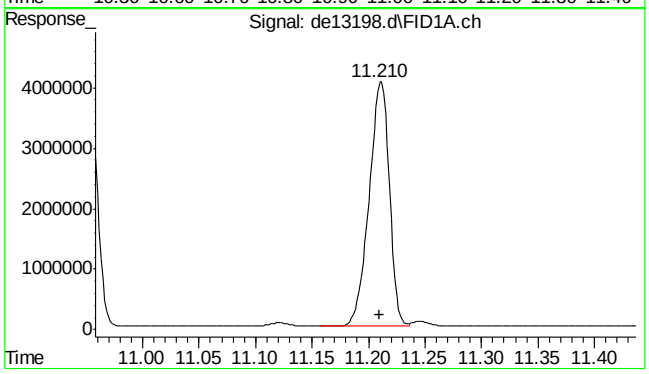
#11 o-terphenyl

R.T.: 10.085 min
Delta R.T.: 0.002 min
Response: 5227790
Conc: 51.04 µg/ml



#12 fluoranthene

R.T.: 10.953 min
Delta R.T.: 0.005 min
Response: 5147188
Conc: 51.50 µg/ml



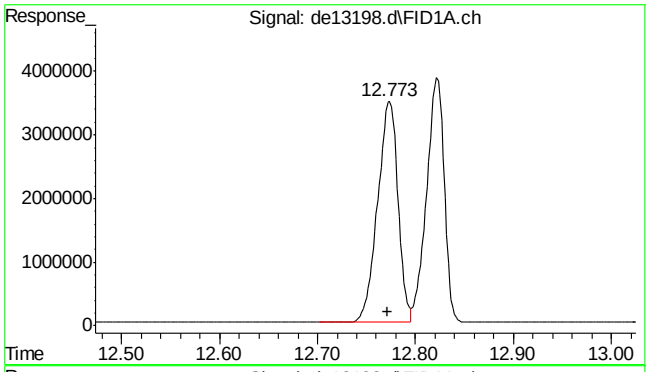
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5076986
Conc: 50.04 µg/ml

9.5.8

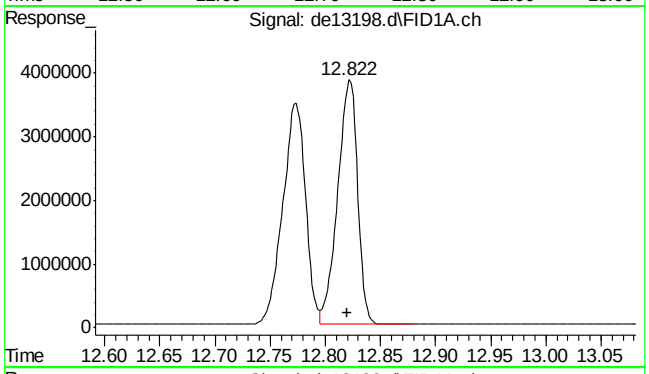
9

SGS ACCUTEST MC45816A



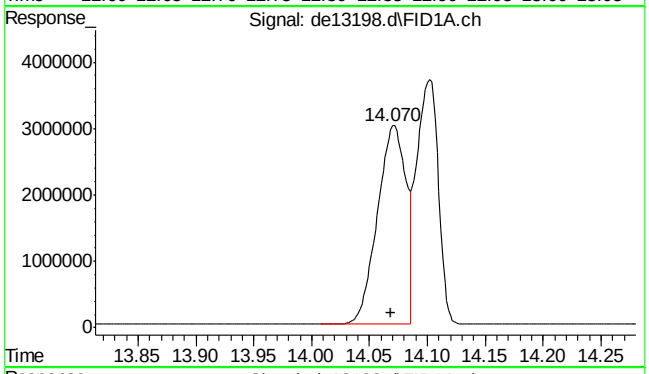
#14 benzo(a)anthracene

R.T.: 12.773 min
Delta R.T.: 0.001 min
Response: 5010585
Conc: 51.83 µg/ml m



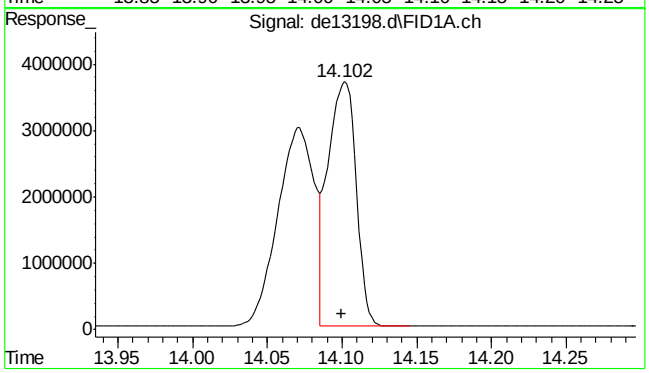
#15 chrysene

R.T.: 12.822 min
Delta R.T.: 0.002 min
Response: 4818393
Conc: 49.50 µg/ml m



#16 benzo(B)fluoranthene

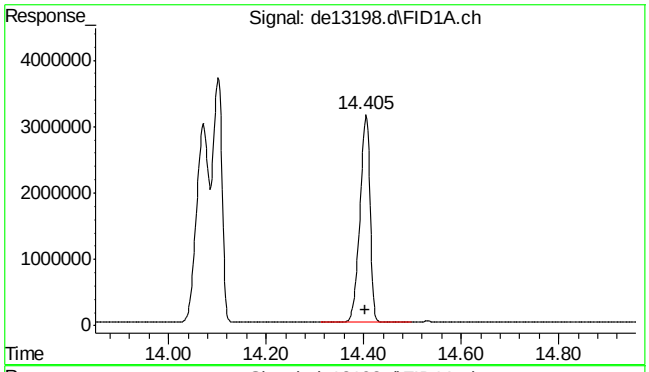
R.T.: 14.070 min
Delta R.T.: 0.002 min
Response: 5126155
Conc: 51.78 µg/ml m



#17 benzo(k)fluoranthene

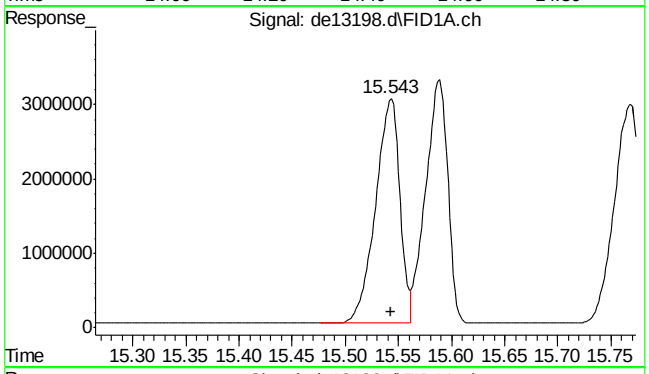
R.T.: 14.102 min
Delta R.T.: 0.002 min
Response: 4808431
Conc: 50.88 µg/ml m

SGS ACCUTEST MC45816A



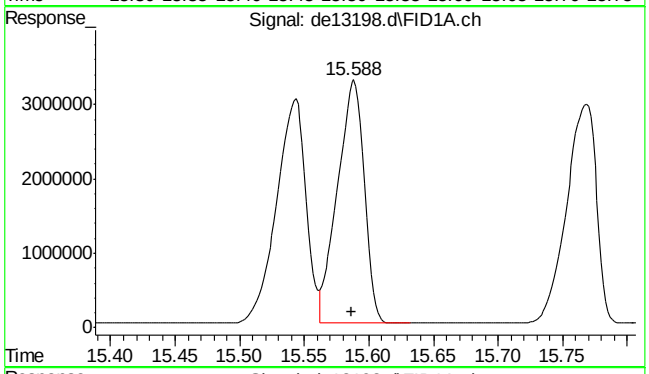
#18 benzo(a)pyrene

R.T.: 14.405 min
Delta R.T.: 0.003 min
Response: 4486318
Conc: 48.53 µg/ml



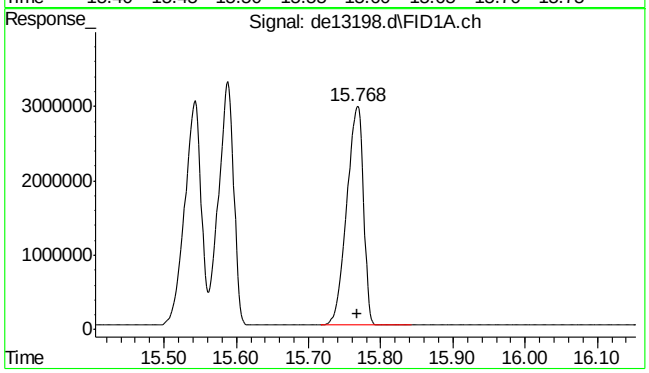
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4825283
Conc: 50.98 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.588 min
Delta R.T.: 0.001 min
Response: 4714989
Conc: 51.59 µg/ml



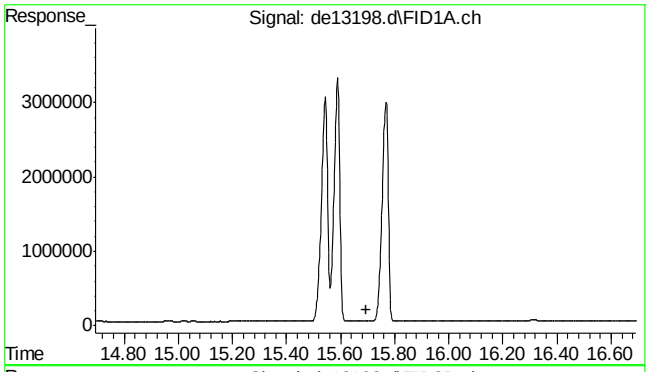
#21 benzo(ghi)perylene

R.T.: 15.768 min
Delta R.T.: 0.001 min
Response: 4765990
Conc: 51.73 µg/ml

9.5.8

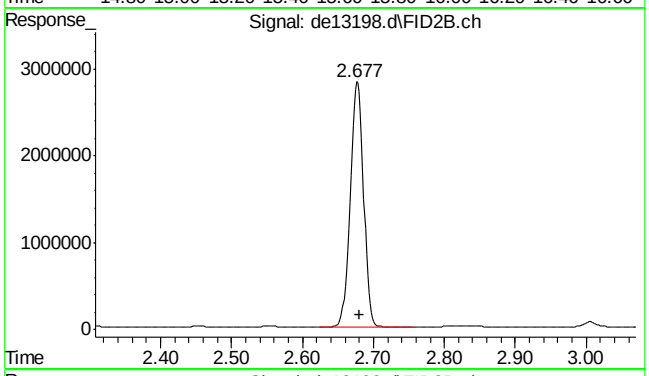
9

SGS ACCUTEST MC45816A



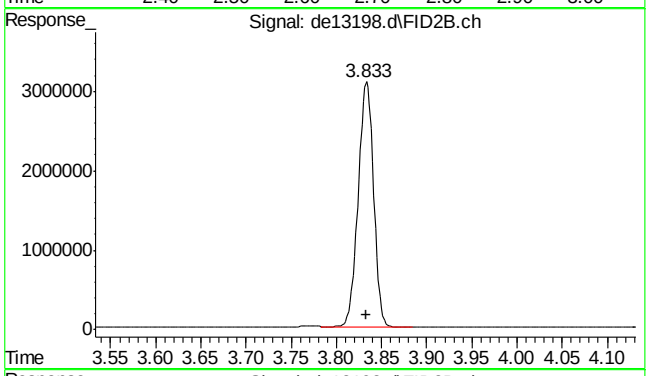
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



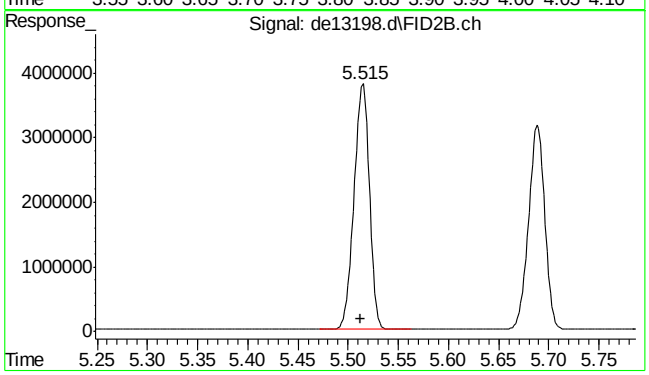
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3669865
Conc: 49.68 µg/ml m



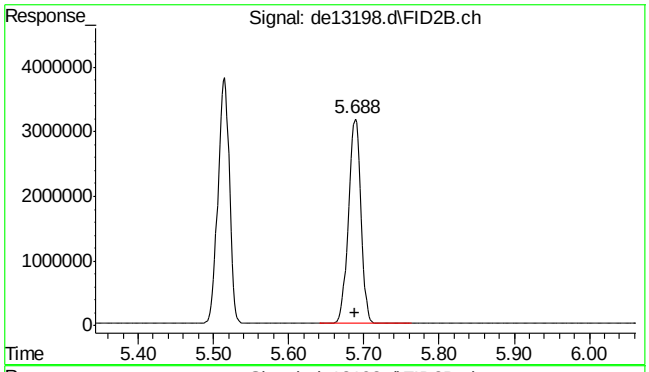
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3682081
Conc: 49.84 µg/ml



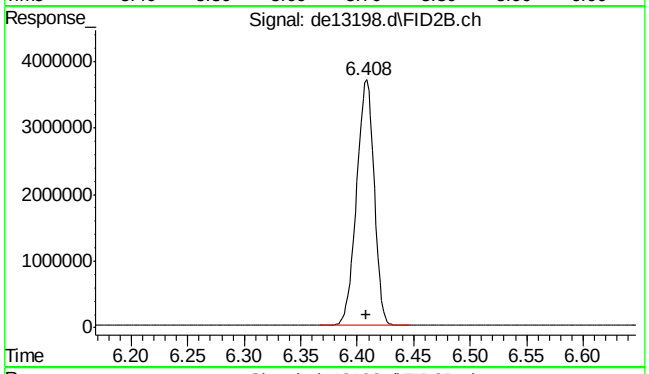
#27 naphthalene #2

R.T.: 5.515 min
Delta R.T.: 0.002 min
Response: 4035939
Conc: 50.53 µg/ml



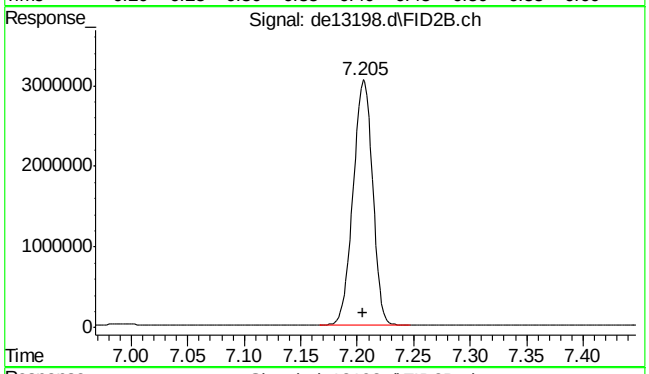
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3625160
Conc: 49.07 µg/ml



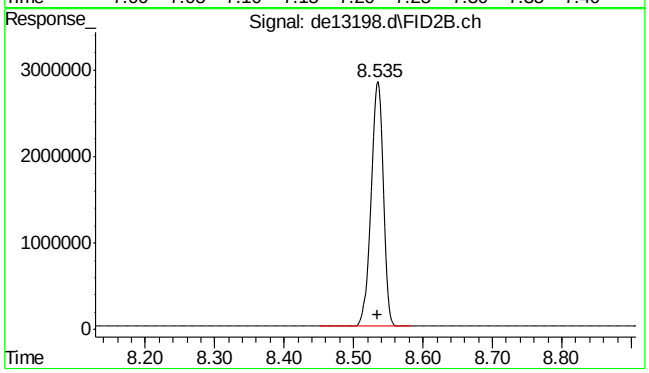
#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3954192
Conc: 49.08 µg/ml



#30 c-14

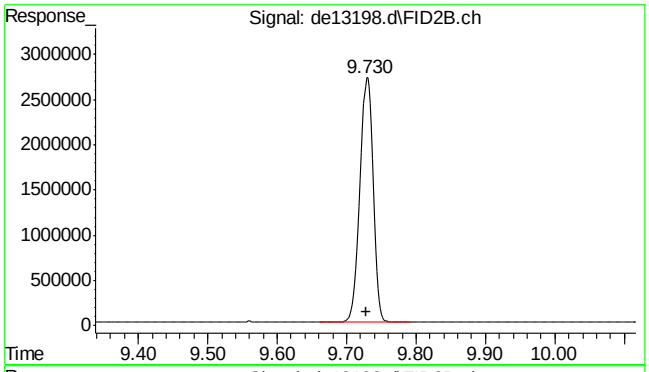
R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3605226
Conc: 48.80 µg/ml



#31 c-16

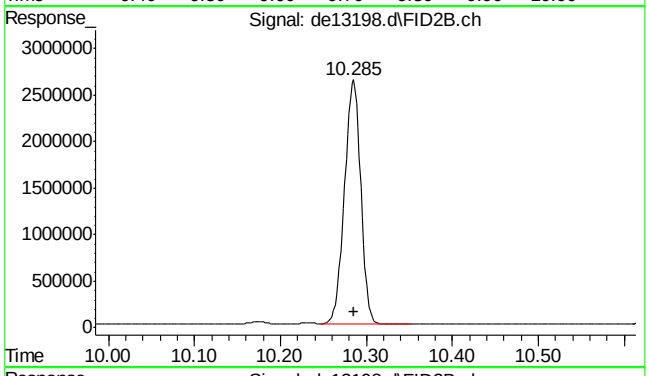
R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3538485
Conc: 47.90 µg/ml

SGS ACCUTEST MC45816A



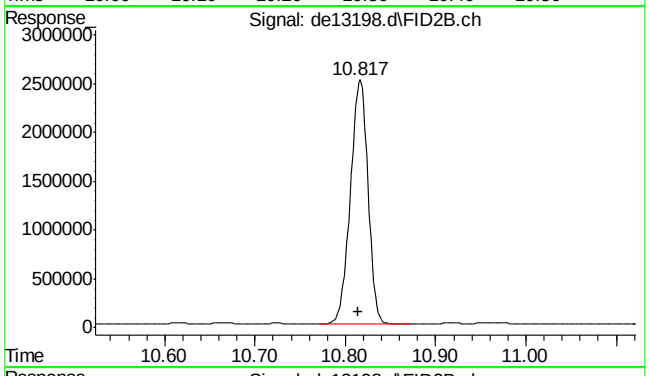
#32 c-18

R.T.: 9.730 min
Delta R.T.: 0.002 min
Response: 3494684
Conc: 47.31 µg/ml



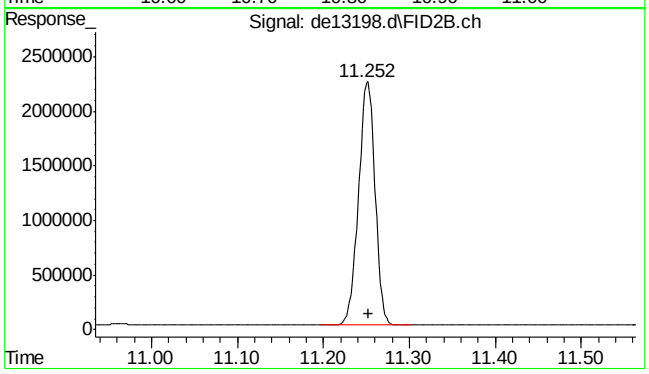
#33 c-19

R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3424371
Conc: 51.26 µg/ml



#34 c-20

R.T.: 10.817 min
Delta R.T.: 0.002 min
Response: 3390870
Conc: 50.76 µg/ml



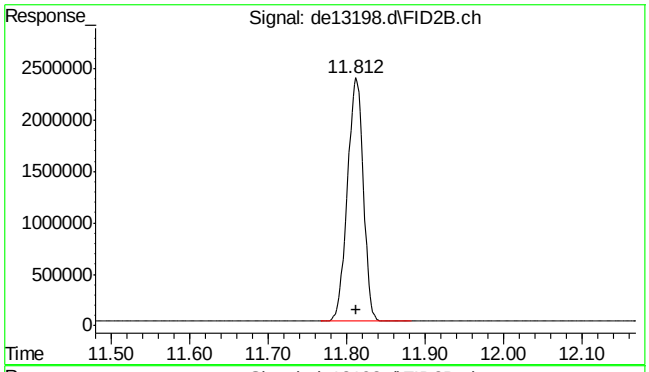
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2968966
Conc: 52.48 µg/ml

9.5.8

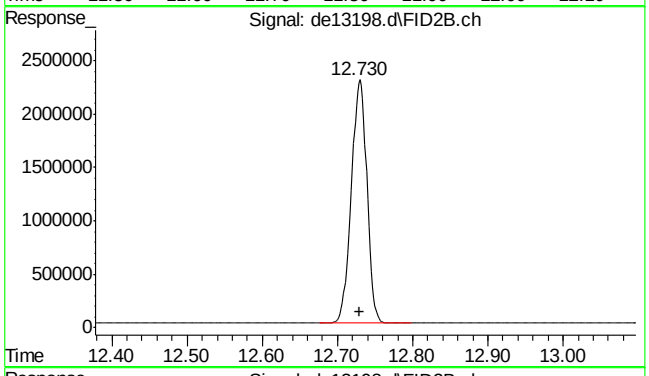
9

SGS ACCUTEST MC45816A



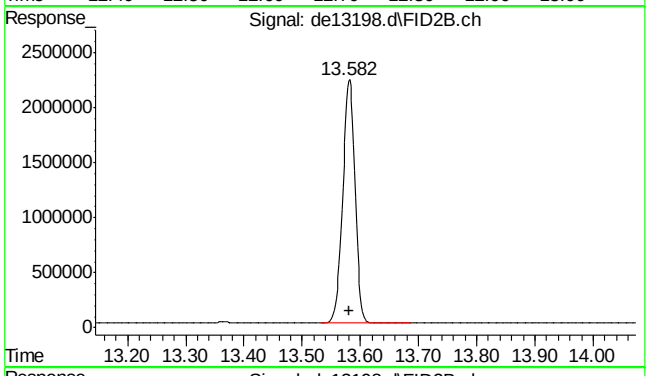
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3335369
Conc: 49.93 µg/ml



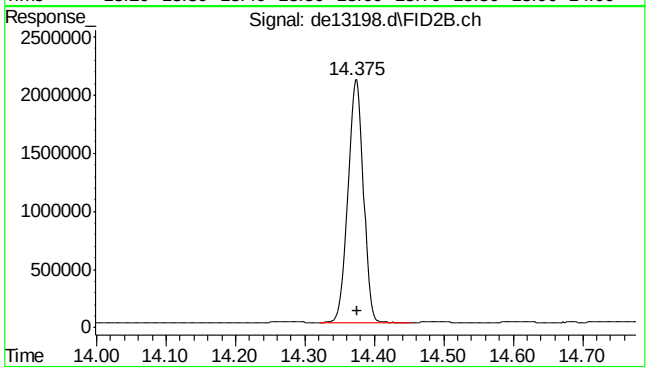
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3275936
Conc: 49.04 µg/ml



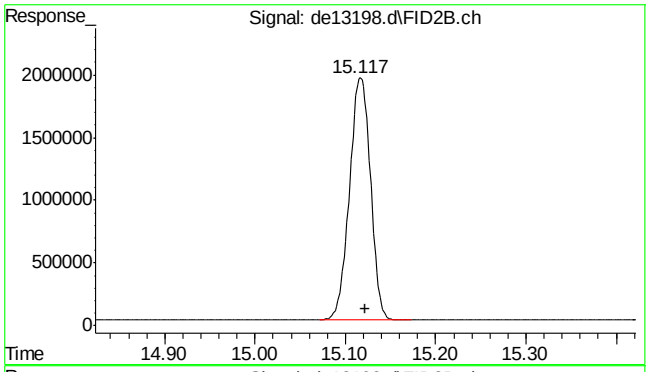
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3251556
Conc: 48.67 µg/ml



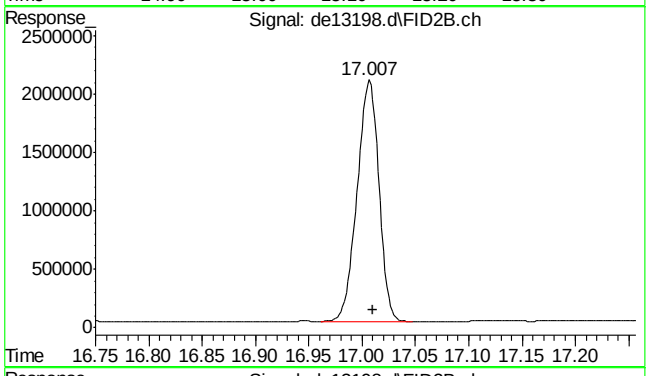
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3204302
Conc: 47.96 µg/ml



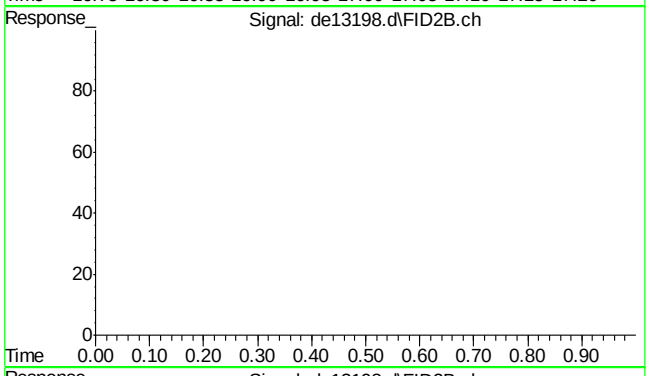
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3143578
Conc: 47.06 µg/ml



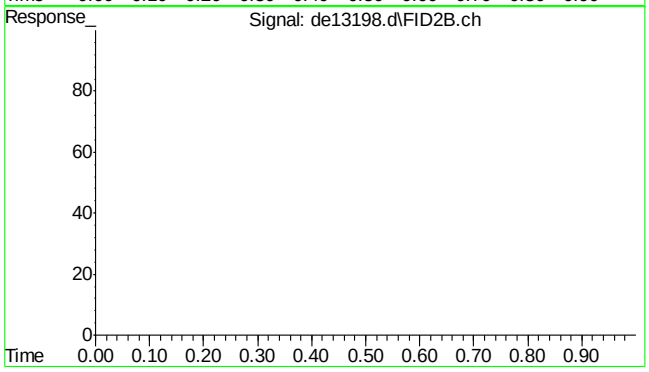
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2933493
Conc: 43.91 µg/ml m



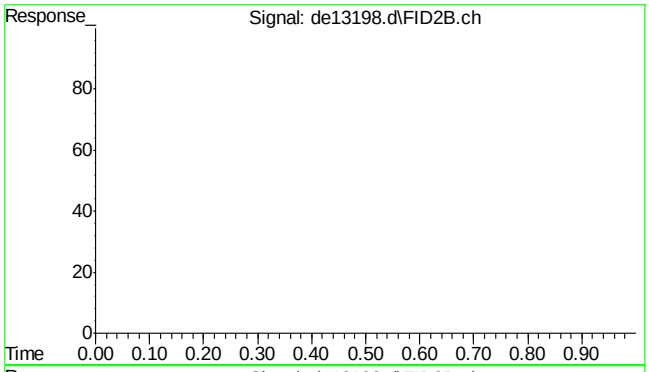
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



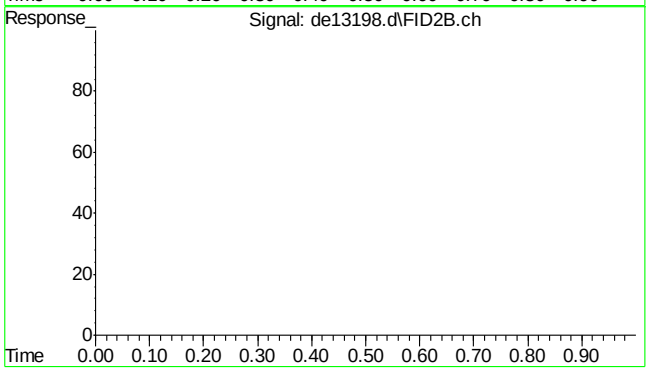
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.5.8

9

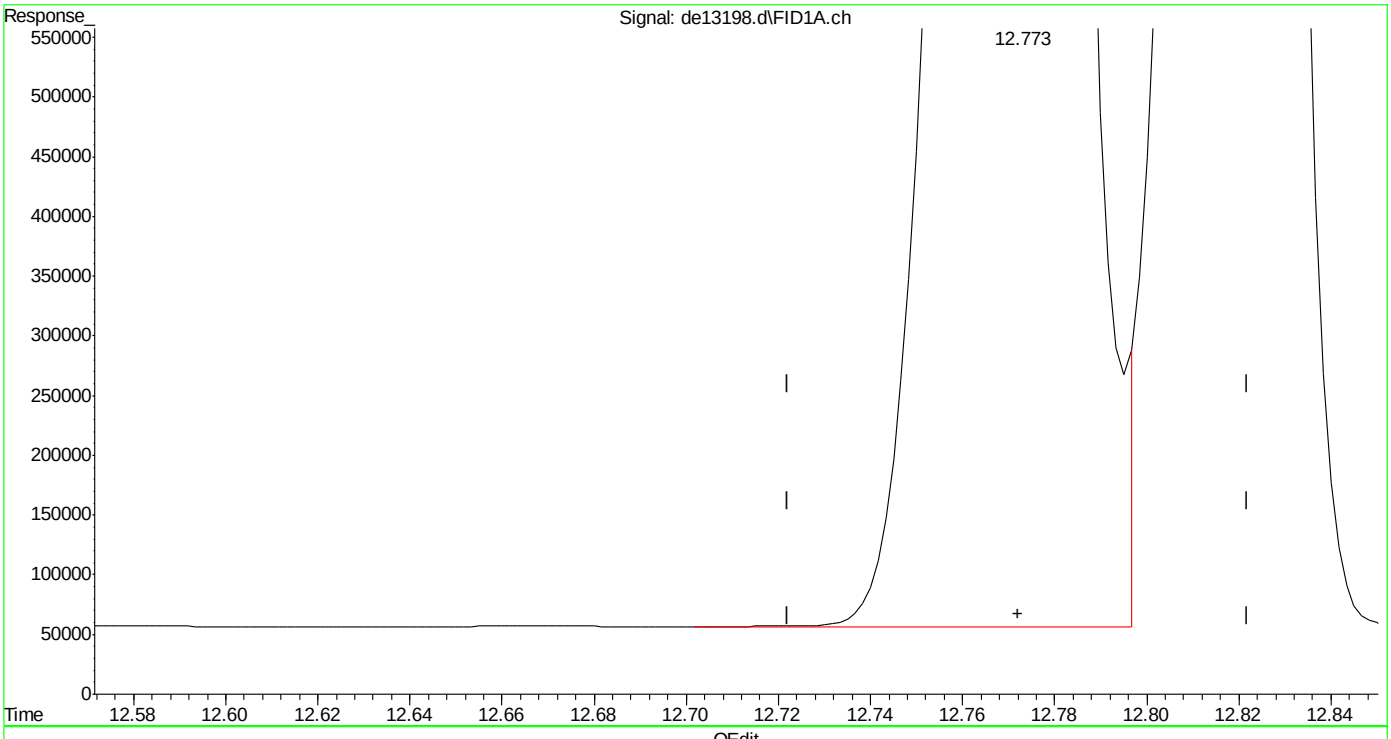
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.773min 52.075 µg/ml
response 5034310

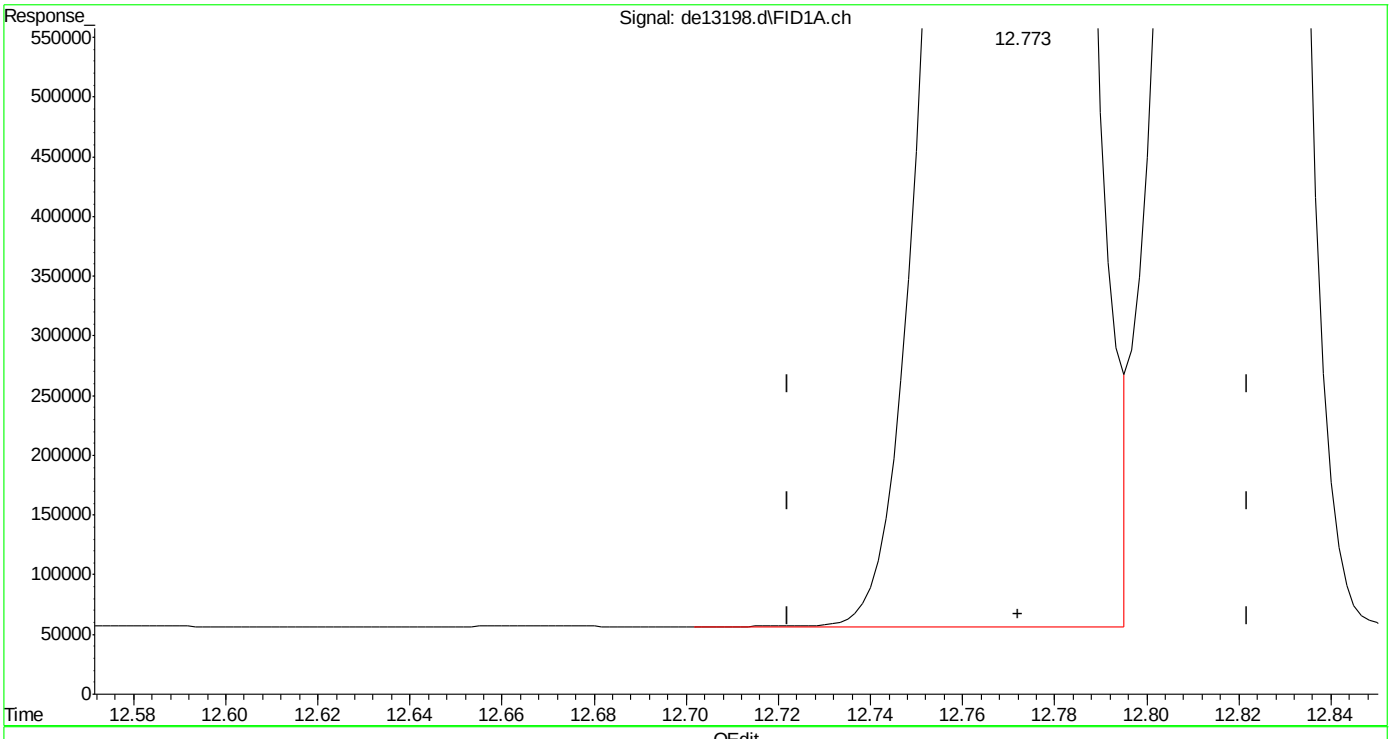
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.773min 51.829 µg/ml m
response 5010585

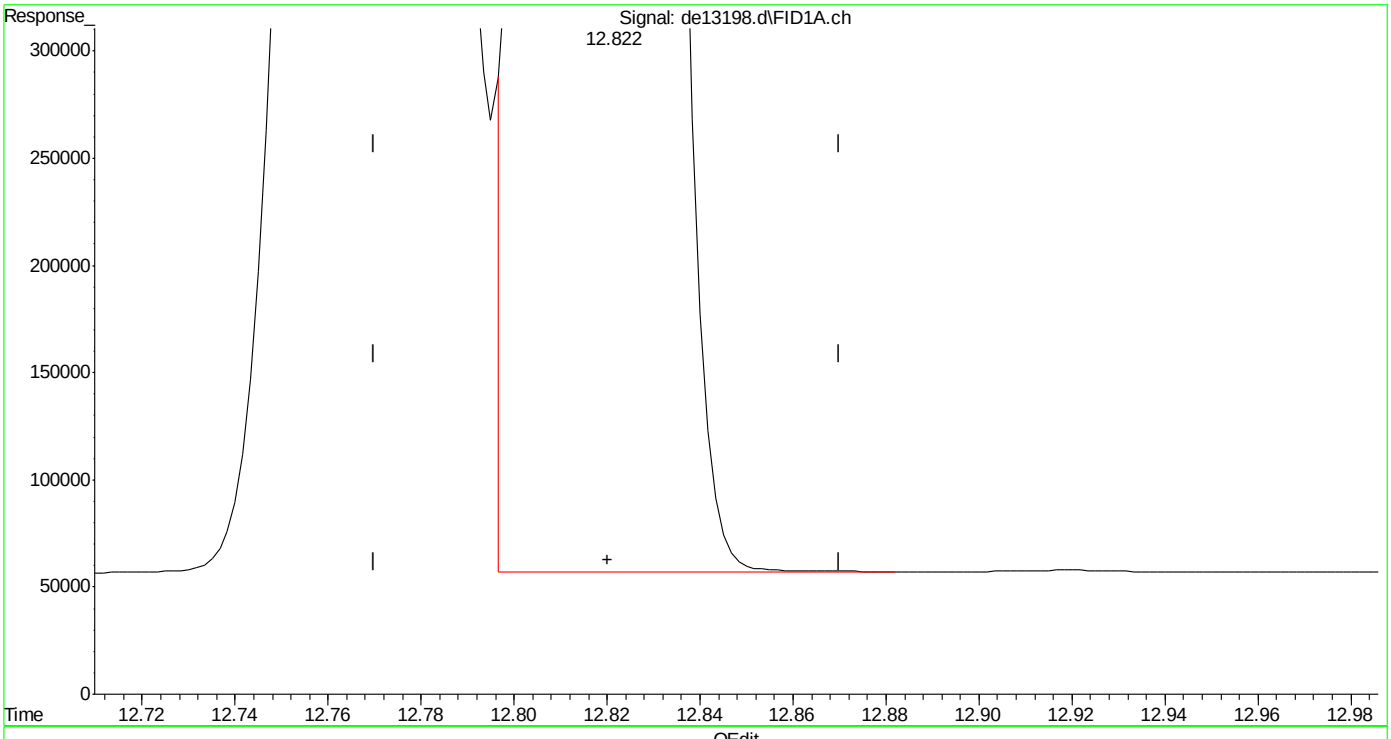
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.822min 49.264 µg/ml
response 4795363

(+) = Expected Retention Time
EPH160204W.M Fri Feb 05 11:46:32 2016

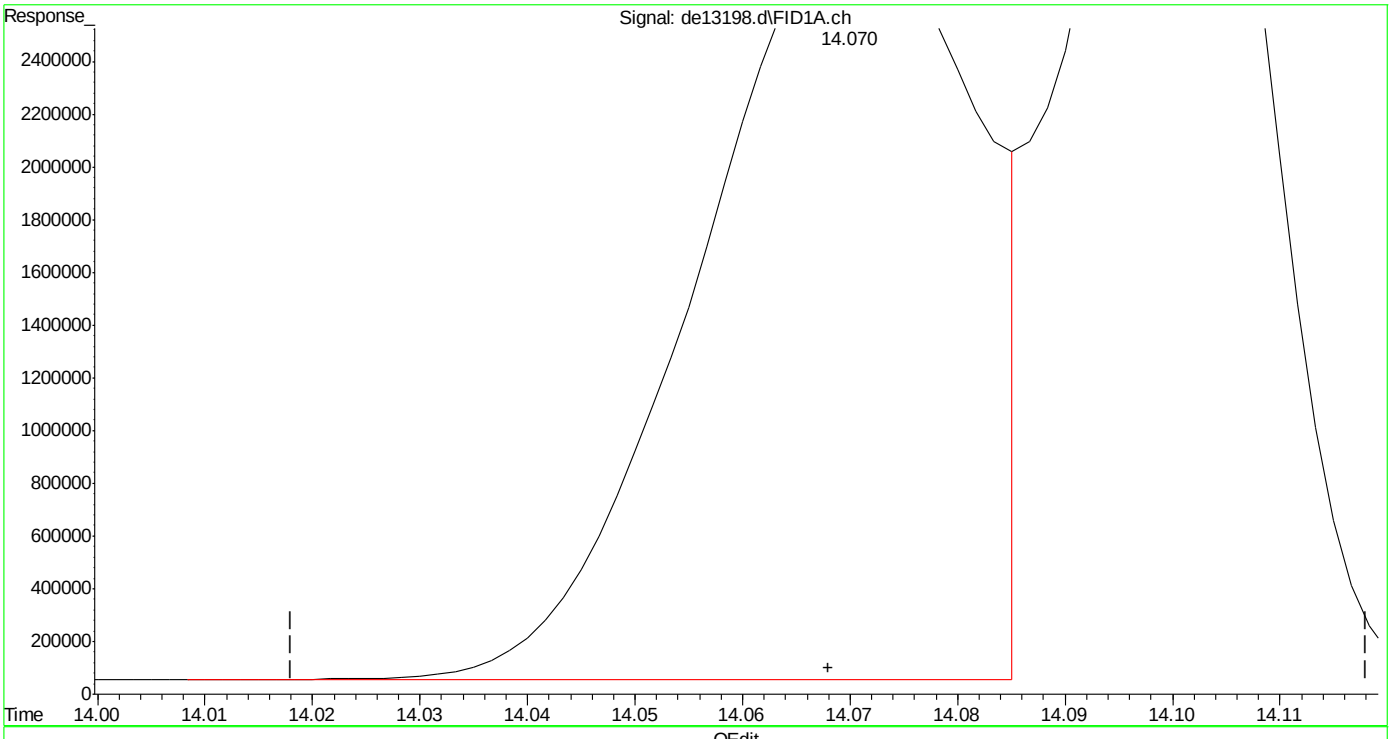
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.070min 51.778 µg/ml m
response 5126155

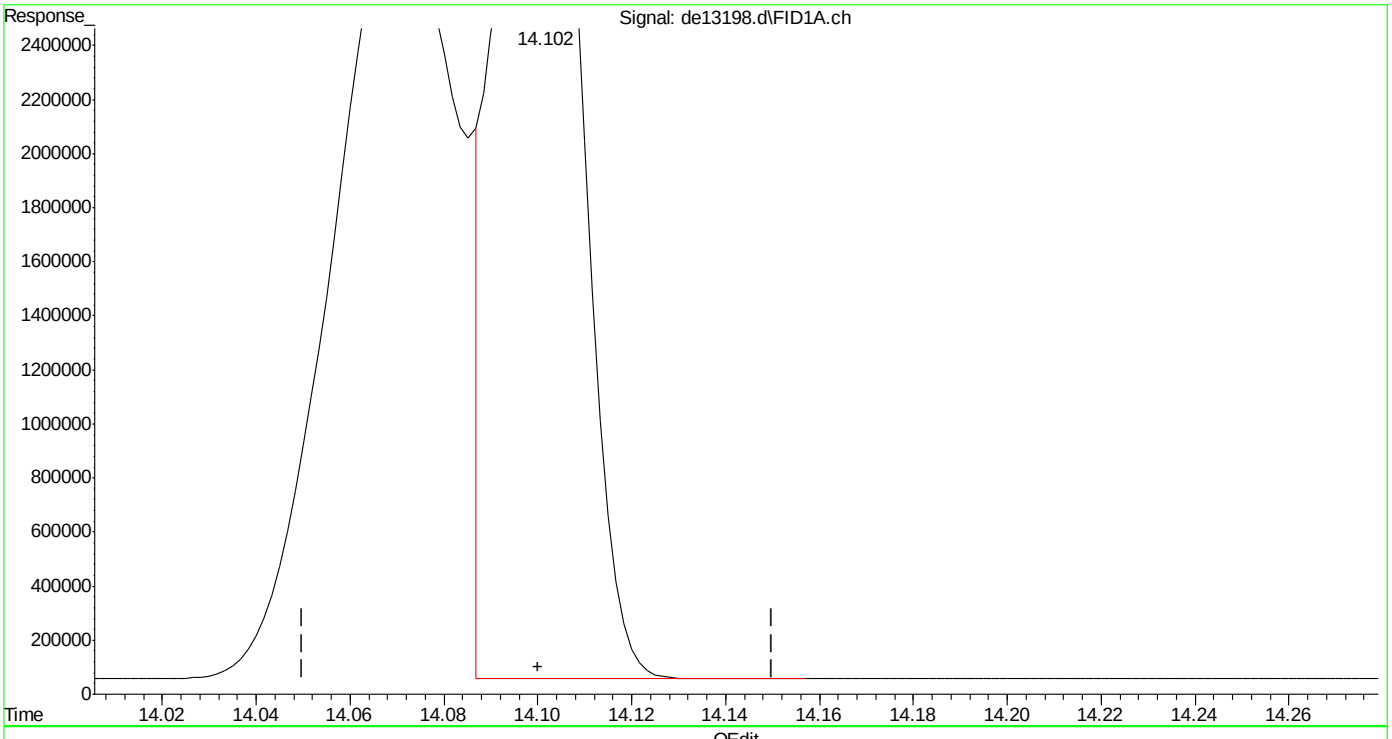
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.102min 48.745 µg/ml
response 4606556

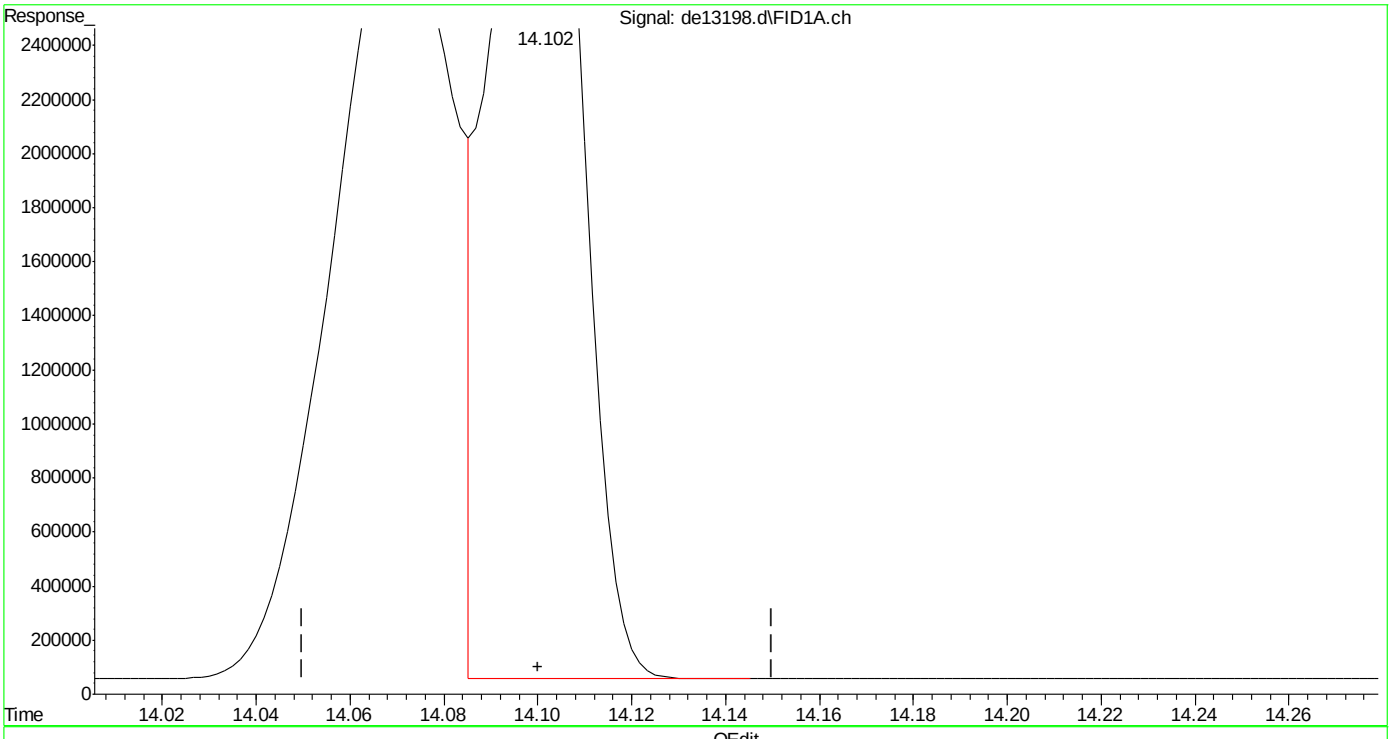
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.102min 50.882 µg/ml m
response 4808431

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
05/31/16 11:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 7:45 am
Operator : andrip
Sample : cc735-50,gde801
Misc : op47648,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:50:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.615	5612538	60.854 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 304.27%#
6) s	2-bromonaphthalene	7.342	3755744	59.848 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 299.24%#
11) s	o-terphenyl	9.878	6176648	60.303 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 301.51%#
35) s	1-chlorooctadecane	11.223	3397446	60.052 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 300.26%#
	Target Compounds			
2)	naphthalene	5.163	6317852	61.255 µg/ml
3)	2-methylnaphthalene	6.063	6155330	60.063 µg/ml
5)	acenaphthylene	7.175	6163602	61.267 µg/ml
7)	acenaphthene	7.417	6396516	61.876 µg/ml
8)	fluorene	8.060	6189782	60.943 µg/ml
9)	phenanthrene	9.238	6122457	60.164 µg/ml
10)	anthracene	9.297	5907393	60.896 µg/ml
12)	fluoranthene	10.742	6019291	60.228 µg/ml
13)	pyrene	10.998	6179263	60.902 µg/ml
14)	benzo(a)anthracene	12.560	5735107	59.324 µg/ml
15)	chrysene	12.610	5865506	60.257 µg/ml
16)	benzo(B)fluoranthene	13.860	5999573	60.600 µg/mlm
17)	benzo(k)fluoranthene	13.890	5428706	57.445 µg/ml
18)	benzo(a)pyrene	14.193	5557137	60.119 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.335	5717931	60.406 µg/mlm
20)	dibenzo(ah)anthracene	15.377	5439030	59.509 µg/mlm
21)	benzo(ghi)perylene	15.560	5523266	59.955 µg/ml
25) h	c-9	2.647	4317501	58.446 µg/mlm
26) h	c-10	3.815	4355928	58.966 µg/ml
27)	naphthalene #2	5.488	4649406	58.210 µg/ml
28)	c-12	5.665	4335398	58.688 µg/ml
29)	2-methylnaphthalene #2	6.382	4653715	57.762 µg/ml
30)	c-14	7.182	4332297	58.646 µg/ml
31)	c-16	8.512	4312504	58.378 µg/ml
32)	c-18	9.705	4326901	58.573 µg/ml
33)	c-19	10.260	4294885	64.289 µg/ml
34)	c-20	10.790	4211297	63.037 µg/ml
36)	c-22	11.785	4185011	62.644 µg/ml
37)	c-24	12.703	3914486	58.594 µg/ml
38)	c-26	13.553	4156575	62.218 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 7:45 am
Operator : andrip
Sample : cc735-50,gde801
Misc : op47648,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:50:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
39)	c-28	14.347	4011808	60.051 µg/ml
40) h	c-30	15.098	3996119	59.816 µg/mlm
41) h	c-36	16.983	3827225	57.288 µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.9

9

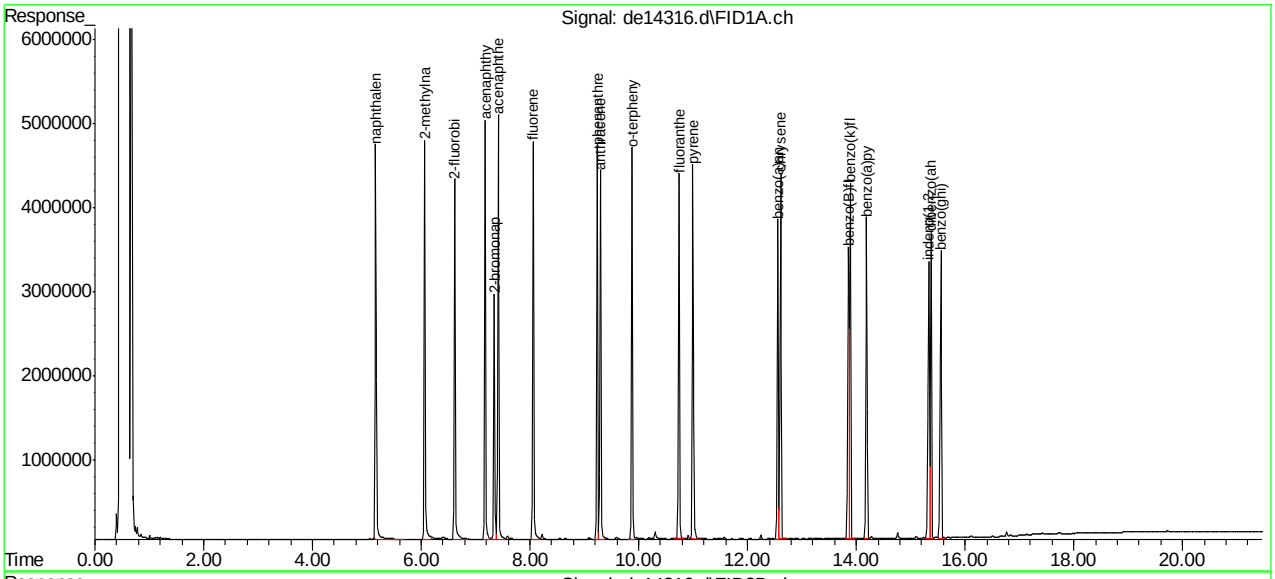
SGS ACCUTEST MC45816A

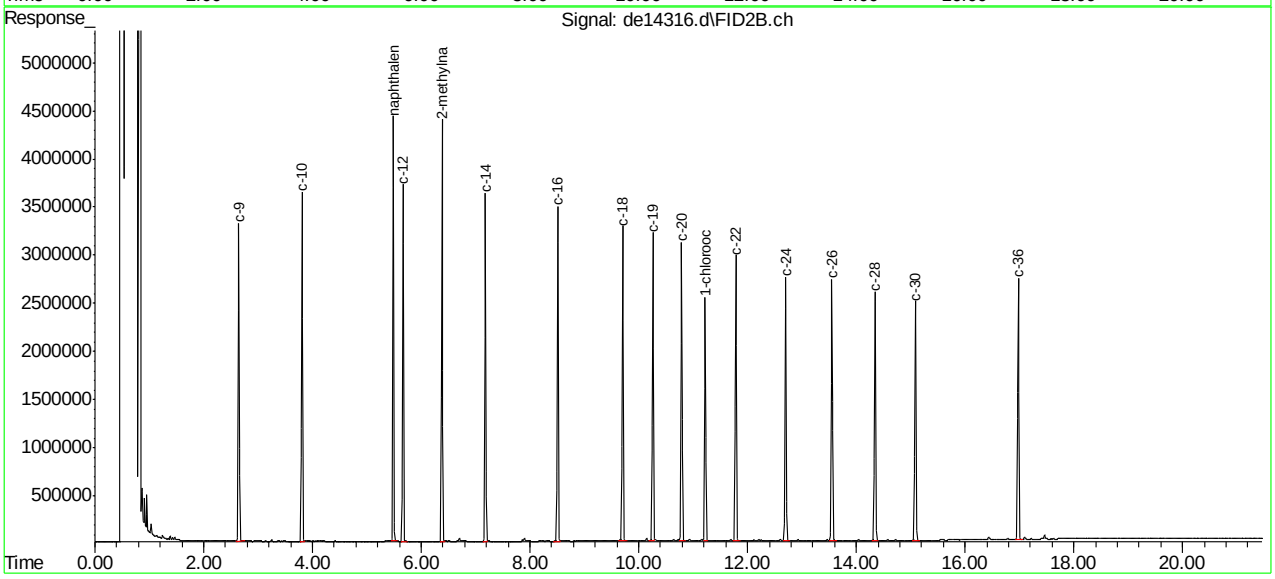
Quantitation Report (QT Reviewed)

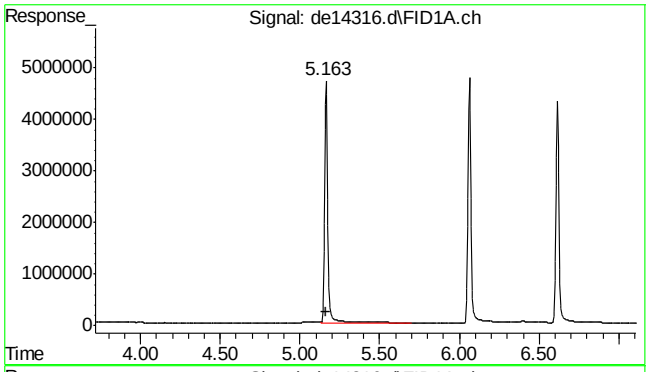
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 7:45 am
Operator : andrip
Sample : cc735-50,gde801
Misc : op47648,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:50:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

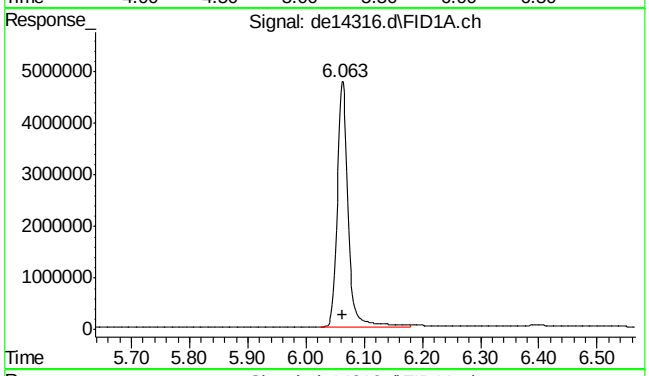






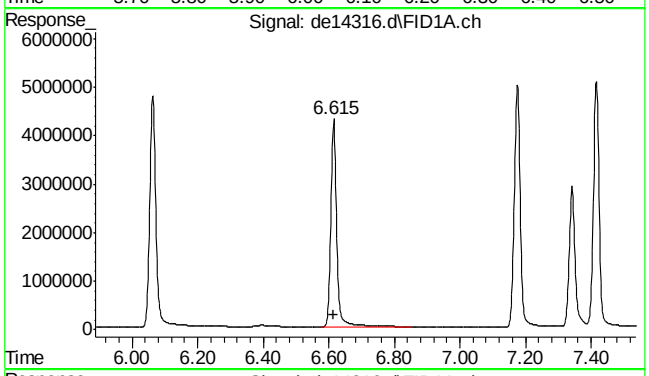
#2 naphthalene

R.T.: 5.163 min
Delta R.T.: 0.000 min
Response: 6317852
Conc: 61.26 µg/ml



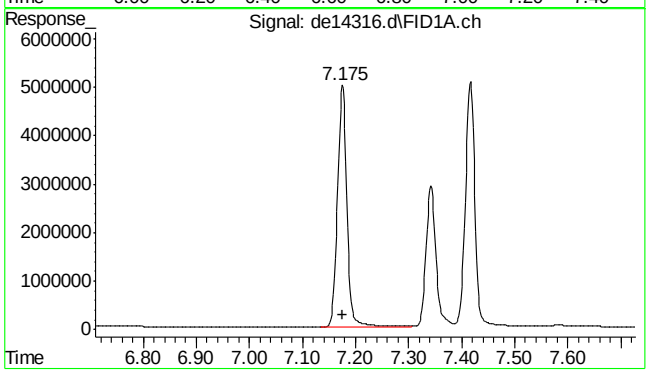
#3 2-methylnaphthalene

R.T.: 6.063 min
Delta R.T.: 0.000 min
Response: 6155330
Conc: 60.06 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.615 min
Delta R.T.: 0.000 min
Response: 5612538
Conc: 60.85 µg/ml



#5 acenaphthylene

R.T.: 7.175 min
Delta R.T.: 0.000 min
Response: 6163602
Conc: 61.27 µg/ml

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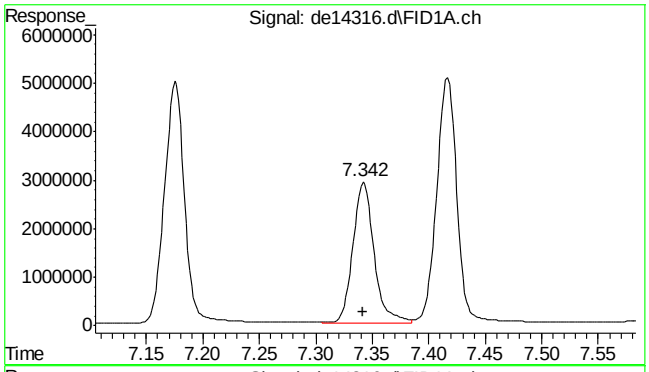
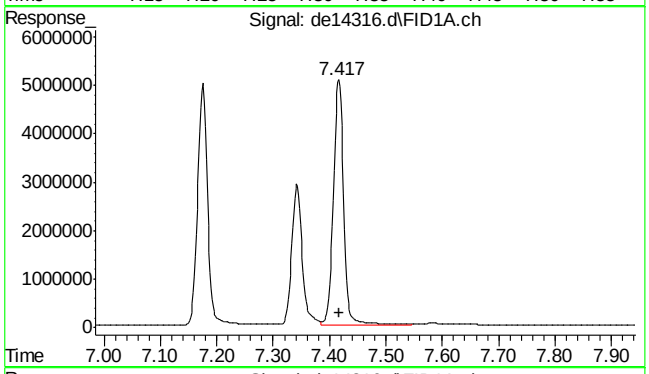


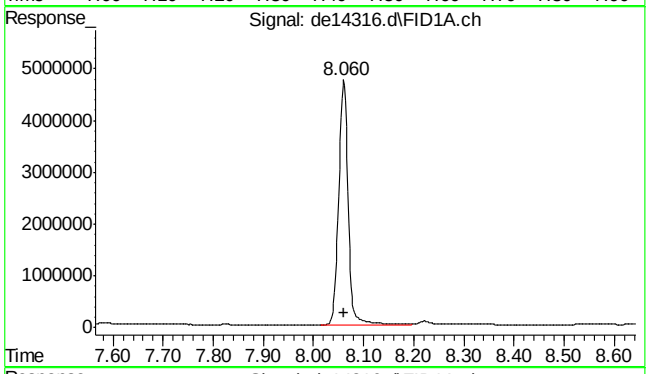
#6 2-bromonaphthalene

R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 3755744
Conc: 59.85 µg/ml



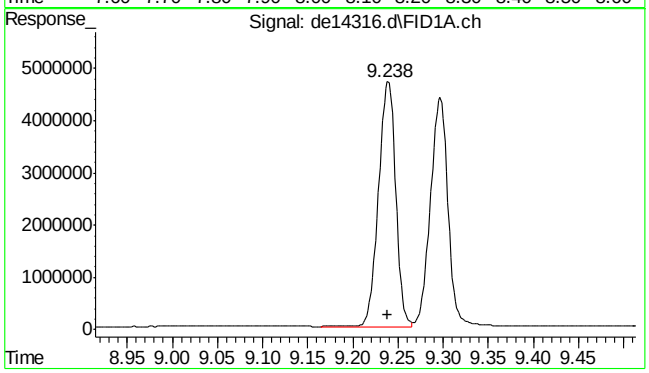
#7 acenaphthene

R.T.: 7.417 min
Delta R.T.: 0.000 min
Response: 6396516
Conc: 61.88 µg/ml



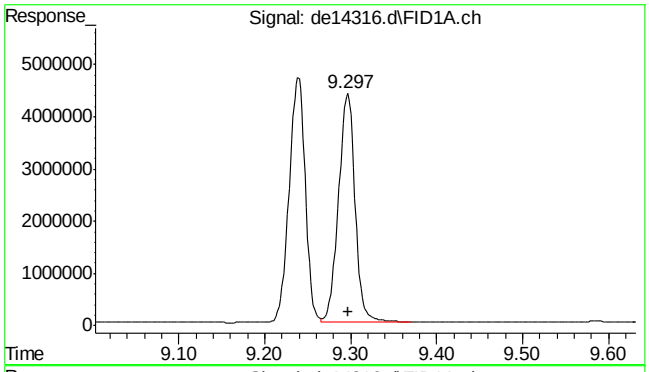
#8 fluorene

R.T.: 8.060 min
Delta R.T.: 0.000 min
Response: 6189782
Conc: 60.94 µg/ml



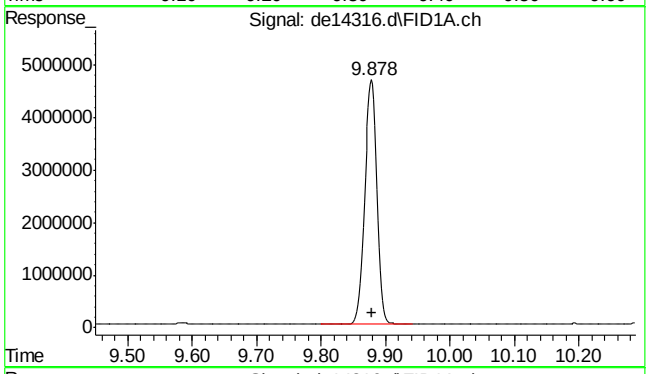
#9 phenanthrene

R.T.: 9.238 min
Delta R.T.: 0.000 min
Response: 6122457
Conc: 60.16 µg/ml



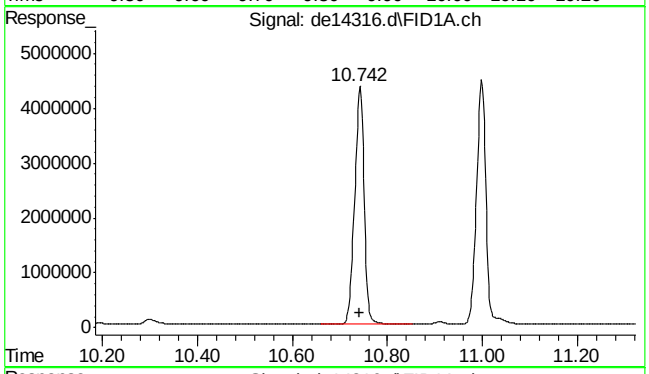
#10 anthracene

R.T.: 9.297 min
Delta R.T.: 0.000 min
Response: 5907393
Conc: 60.90 µg/ml



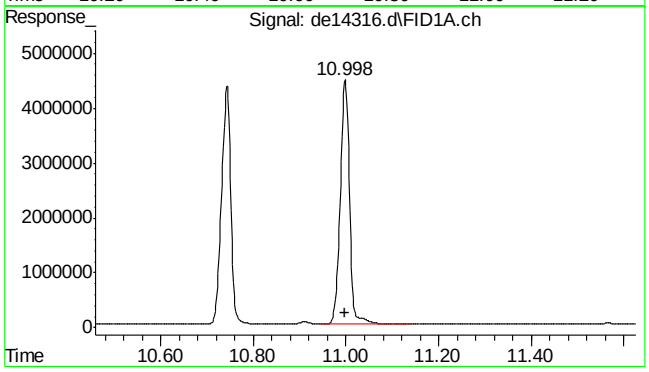
#11 o-terphenyl

R.T.: 9.878 min
Delta R.T.: 0.000 min
Response: 6176648
Conc: 60.30 µg/ml



#12 fluoranthene

R.T.: 10.742 min
Delta R.T.: 0.000 min
Response: 6019291
Conc: 60.23 µg/ml



#13 pyrene

R.T.: 10.998 min
Delta R.T.: 0.000 min
Response: 6179263
Conc: 60.90 µg/ml

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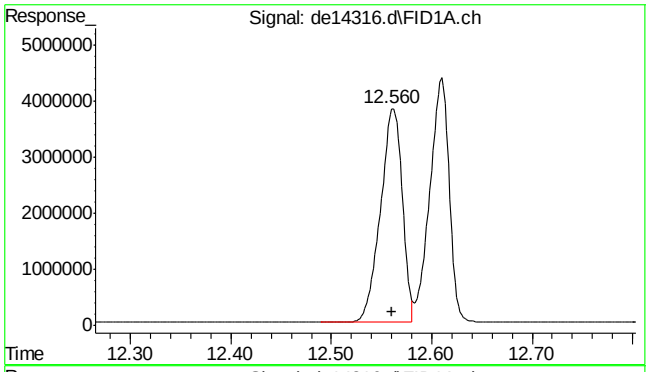
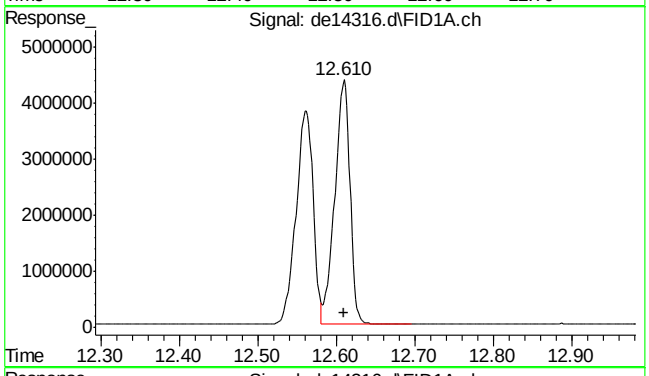


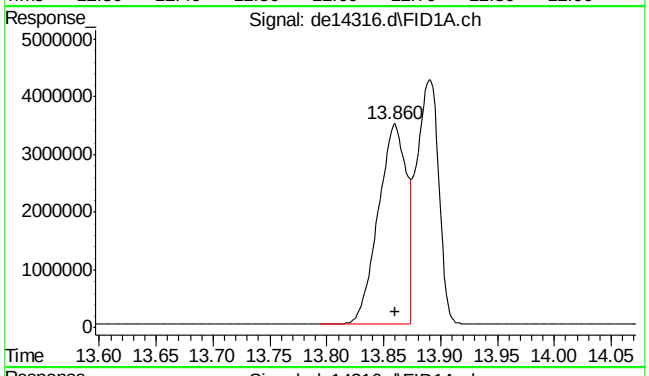
#14 benzo(a)anthracene

R.T.: 12.560 min
Delta R.T.: 0.000 min
Response: 5735107
Conc: 59.32 µg/ml



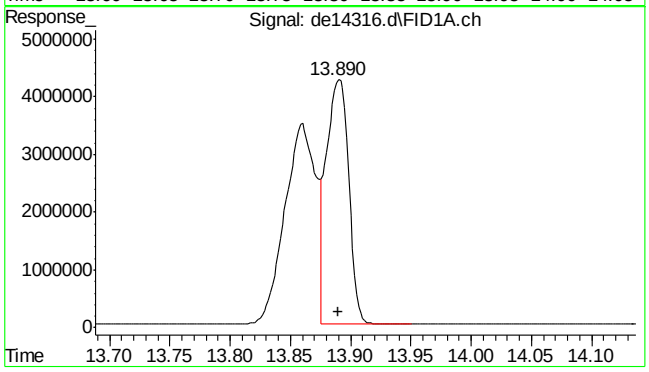
#15 chrysene

R.T.: 12.610 min
Delta R.T.: 0.000 min
Response: 5865506
Conc: 60.26 µg/ml



#16 benzo(B)fluoranthene

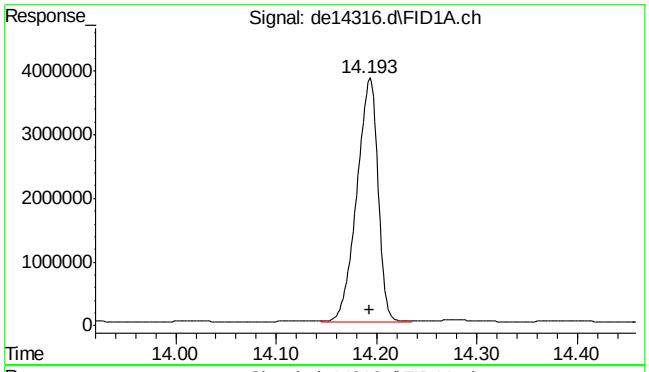
R.T.: 13.860 min
Delta R.T.: 0.000 min
Response: 5999573
Conc: 60.60 µg/ml m



#17 benzo(k)fluoranthene

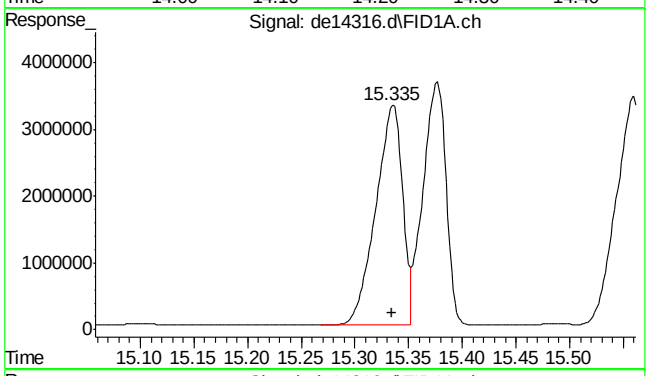
R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 5428706
Conc: 57.45 µg/ml

SGS ACCUTEST MC45816A



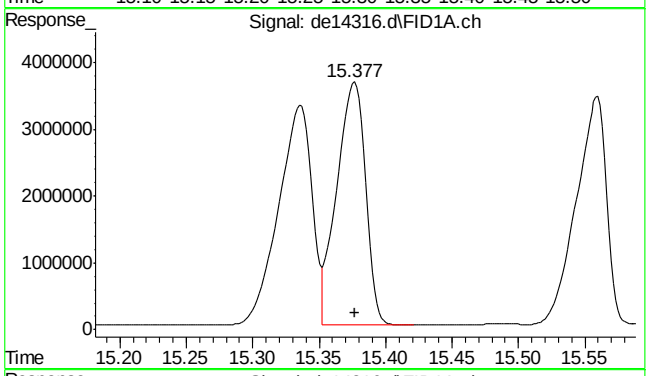
#18 benzo(a)pyrene

R.T.: 14.193 min
Delta R.T.: 0.000 min
Response: 5557137
Conc: 60.12 µg/ml



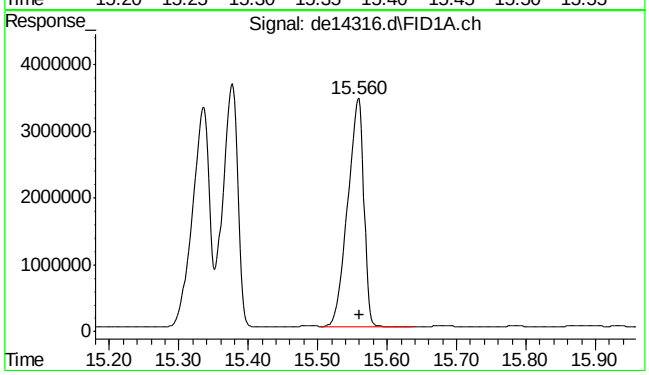
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.335 min
Delta R.T.: 0.000 min
Response: 5717931
Conc: 60.41 µg/ml m



#20 dibenzo(ah)anthracene

R.T.: 15.377 min
Delta R.T.: 0.000 min
Response: 5439030
Conc: 59.51 µg/ml m



#21 benzo(ghi)perylene

R.T.: 15.560 min
Delta R.T.: 0.000 min
Response: 5523266
Conc: 59.96 µg/ml

9.5.9

9

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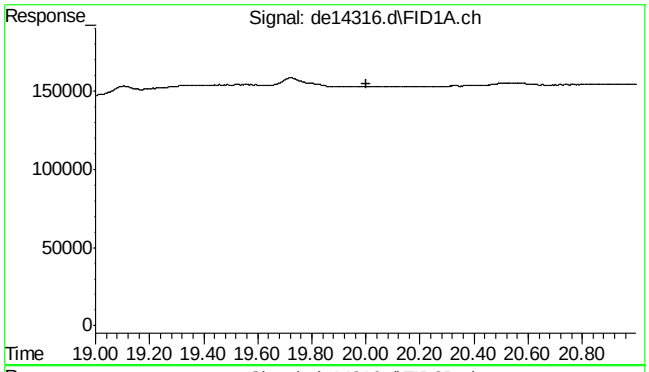
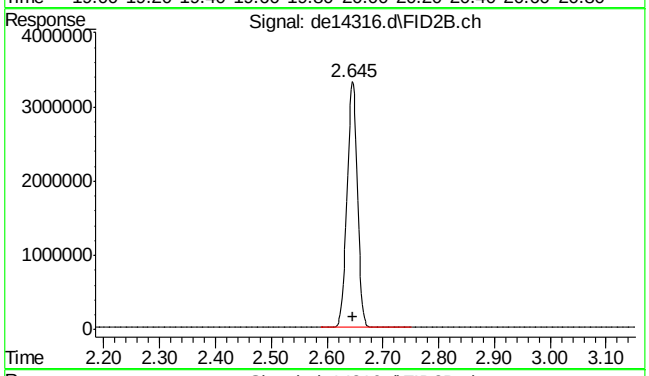


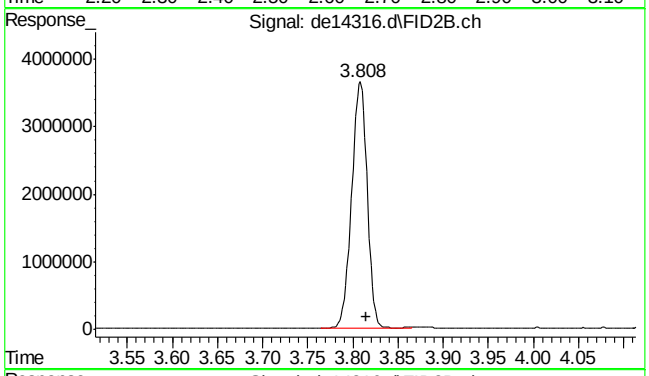
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



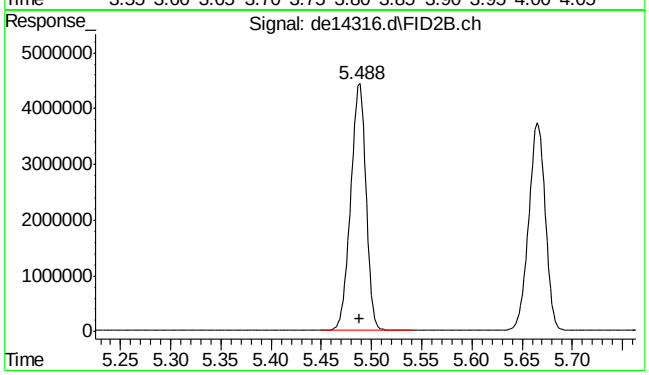
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4317501
Conc: 58.45 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4355928
Conc: 58.97 µg/ml



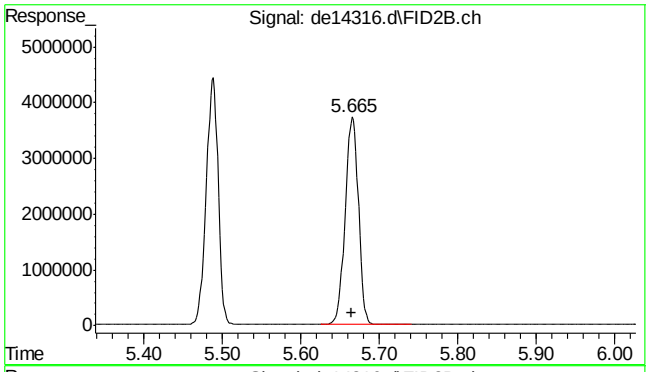
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4649406
Conc: 58.21 µg/ml

9.5.9

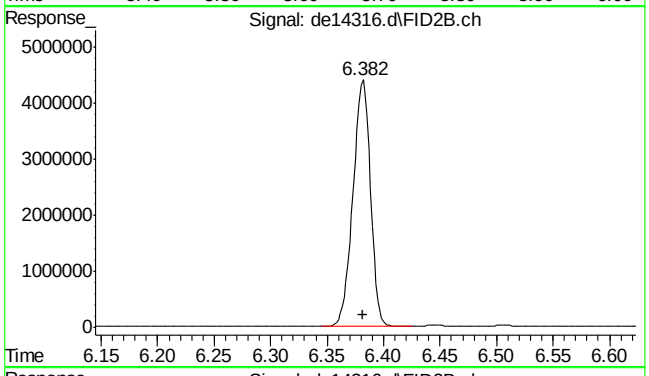
9

SGS ACCUTEST MC45816A



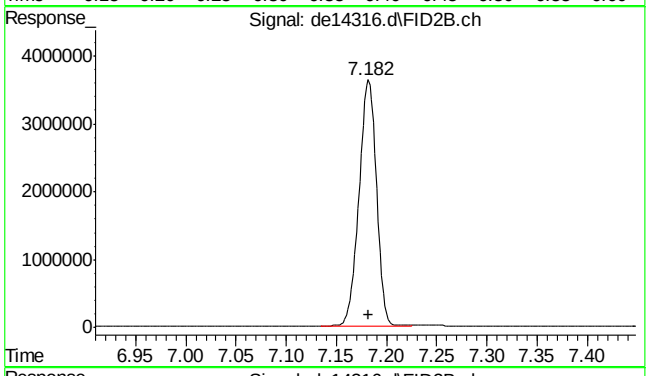
#28 c-12

R.T.: 5.665 min
Delta R.T.: 0.000 min
Response: 4335398
Conc: 58.69 µg/ml



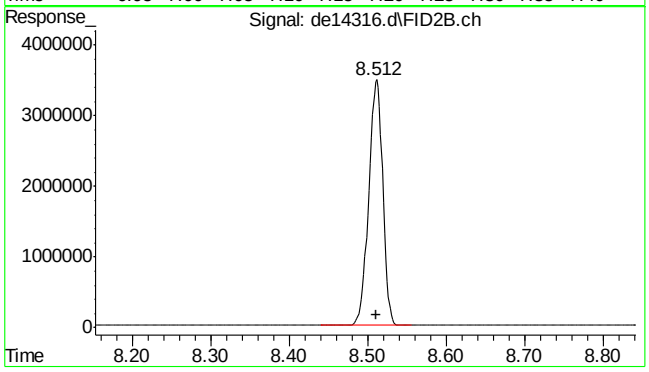
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4653715
Conc: 57.76 µg/ml



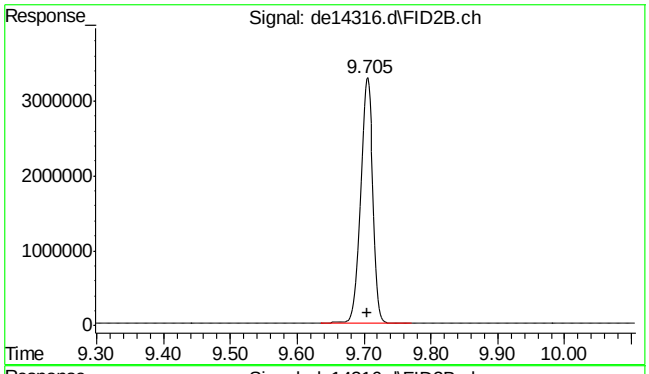
#30 c-14

R.T.: 7.182 min
Delta R.T.: 0.000 min
Response: 4332297
Conc: 58.65 µg/ml



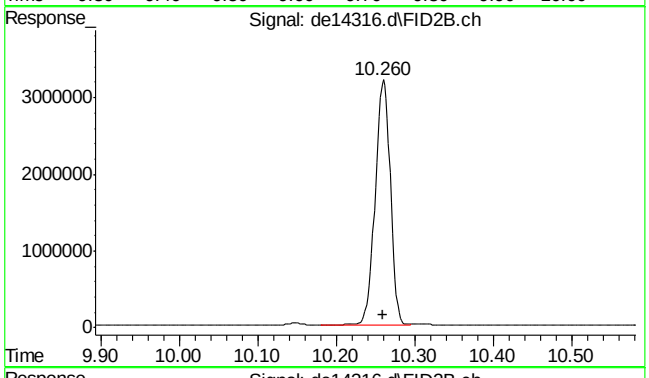
#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 4312504
Conc: 58.38 µg/ml



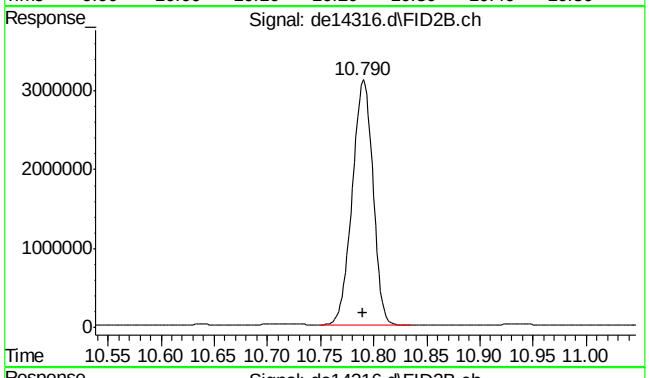
#32 c-18

R.T.: 9.705 min
Delta R.T.: 0.000 min
Response: 4326901
Conc: 58.57 µg/ml



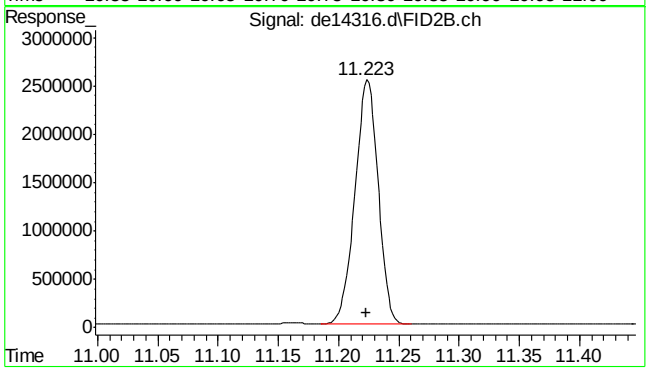
#33 c-19

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 4294885
Conc: 64.29 µg/ml



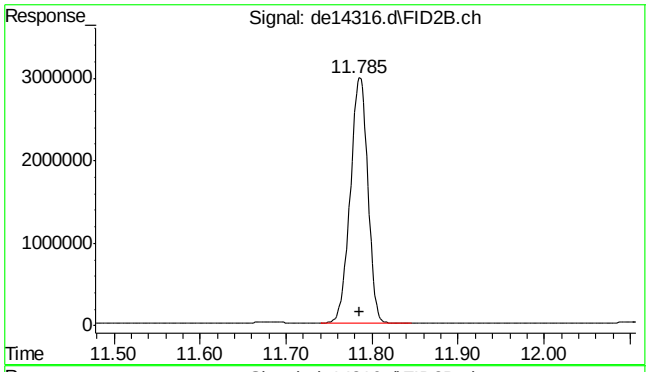
#34 c-20

R.T.: 10.790 min
Delta R.T.: 0.000 min
Response: 4211297
Conc: 63.04 µg/ml



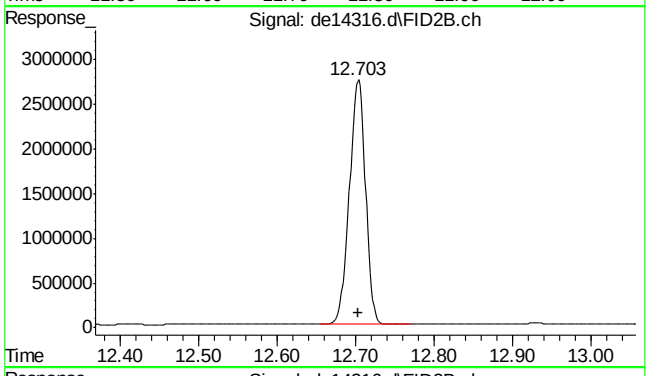
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: 0.000 min
Response: 3397446
Conc: 60.05 µg/ml



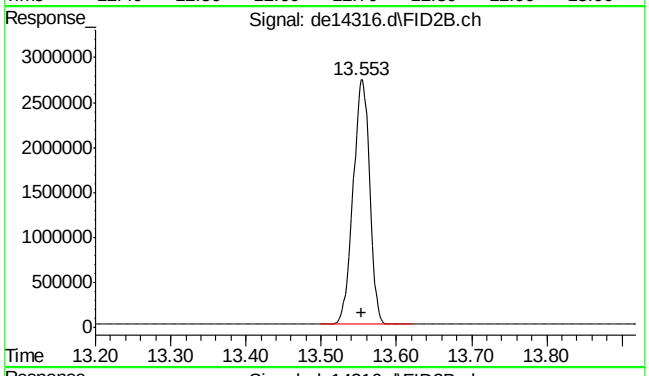
#36 c-22

R.T.: 11.785 min
Delta R.T.: 0.000 min
Response: 4185011
Conc: 62.64 µg/ml



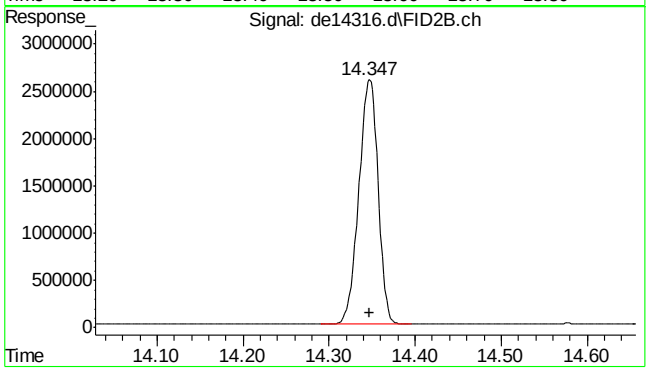
#37 c-24

R.T.: 12.703 min
Delta R.T.: 0.000 min
Response: 3914486
Conc: 58.59 µg/ml



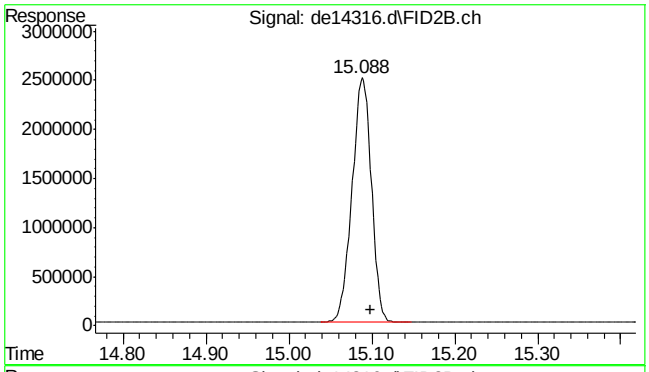
#38 c-26

R.T.: 13.553 min
Delta R.T.: 0.000 min
Response: 4156575
Conc: 62.22 µg/ml



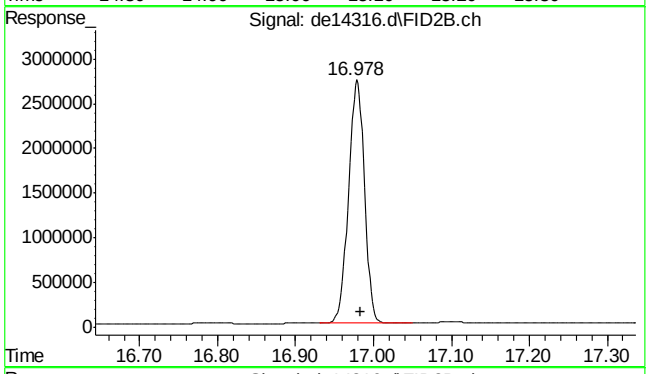
#39 c-28

R.T.: 14.347 min
Delta R.T.: 0.000 min
Response: 4011808
Conc: 60.05 µg/ml



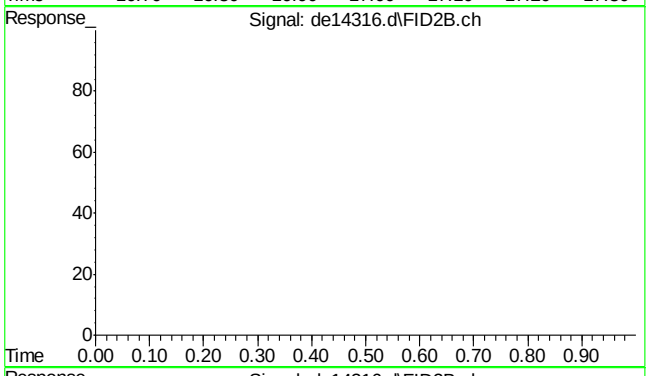
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3996119
Conc: 59.82 µg/ml m



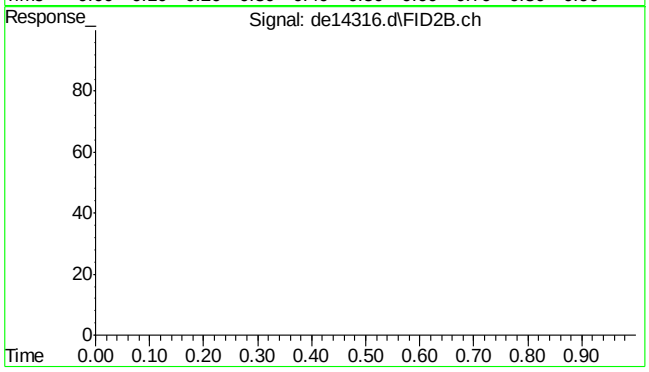
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3827225
Conc: 57.29 µg/ml m



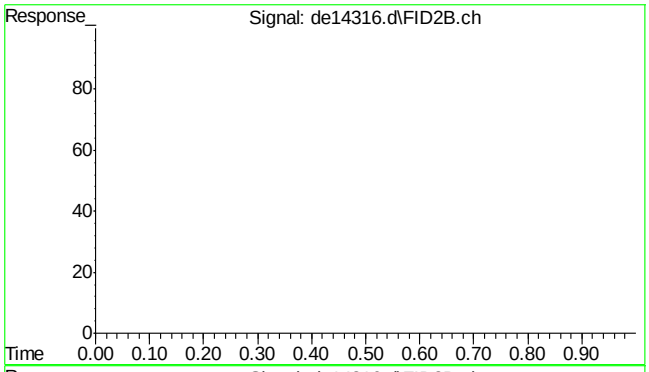
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



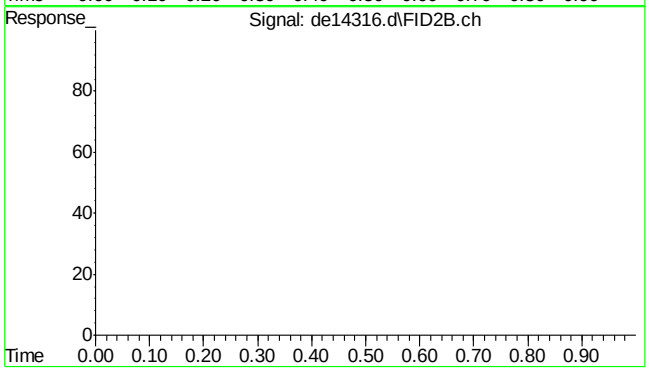
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.5.9

9

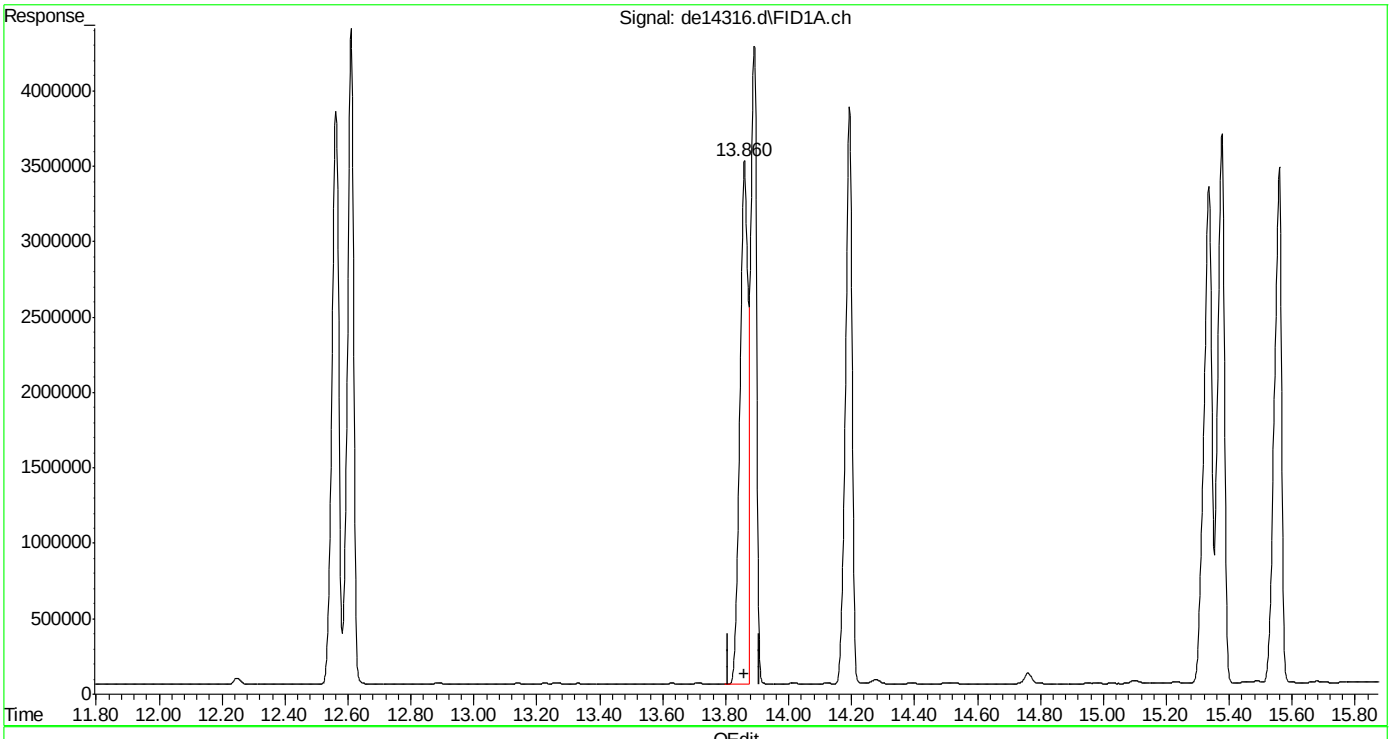
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 7:45 am
Operator : andrip
Sample : cc735-50,gde801
Misc : op47648,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:48:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
13.860min 63.126 µg/ml
response 6249596

(+) = Expected Retention Time

EPH160531W.M Tue May 31 09:48:58 2016

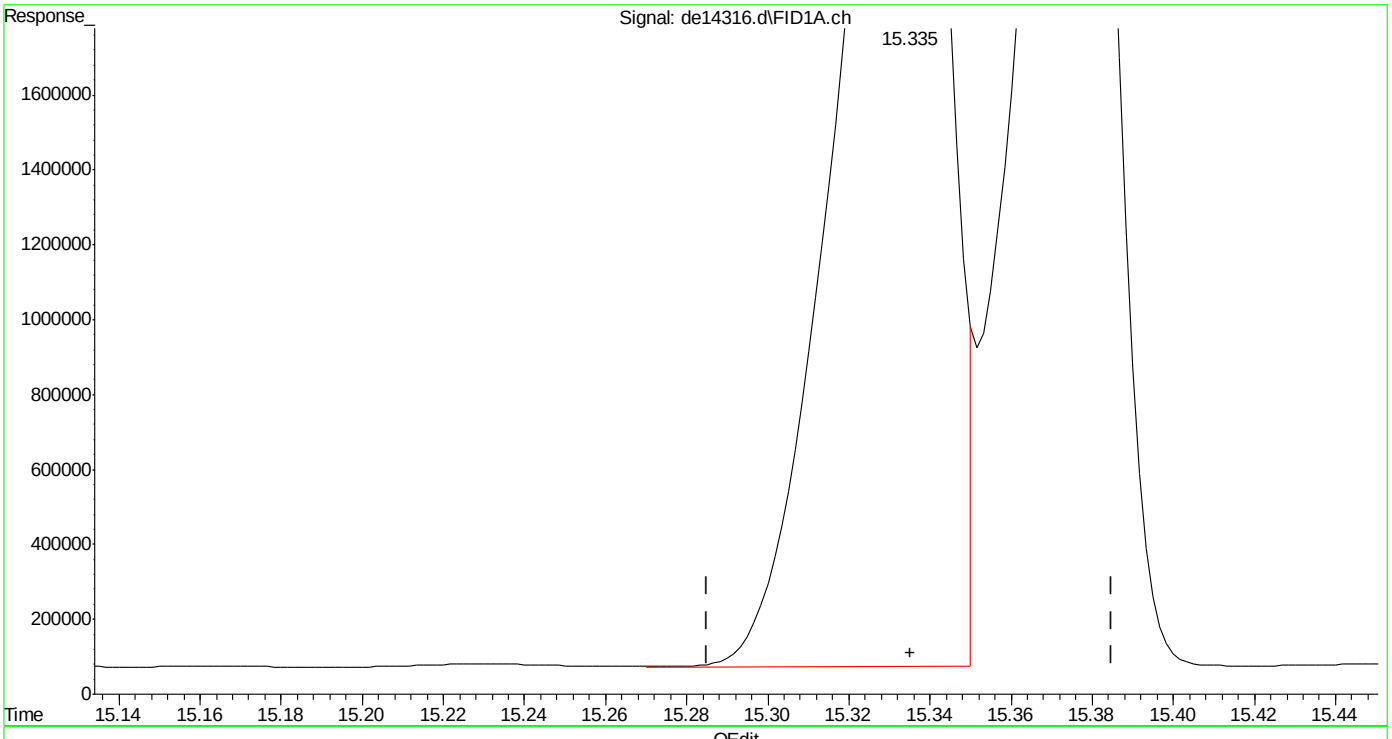
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 7:45 am
Operator : andrip
Sample : cc735-50,gde801
Misc : op47648,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:48:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.335min 59.587 µg/ml
response 5640368

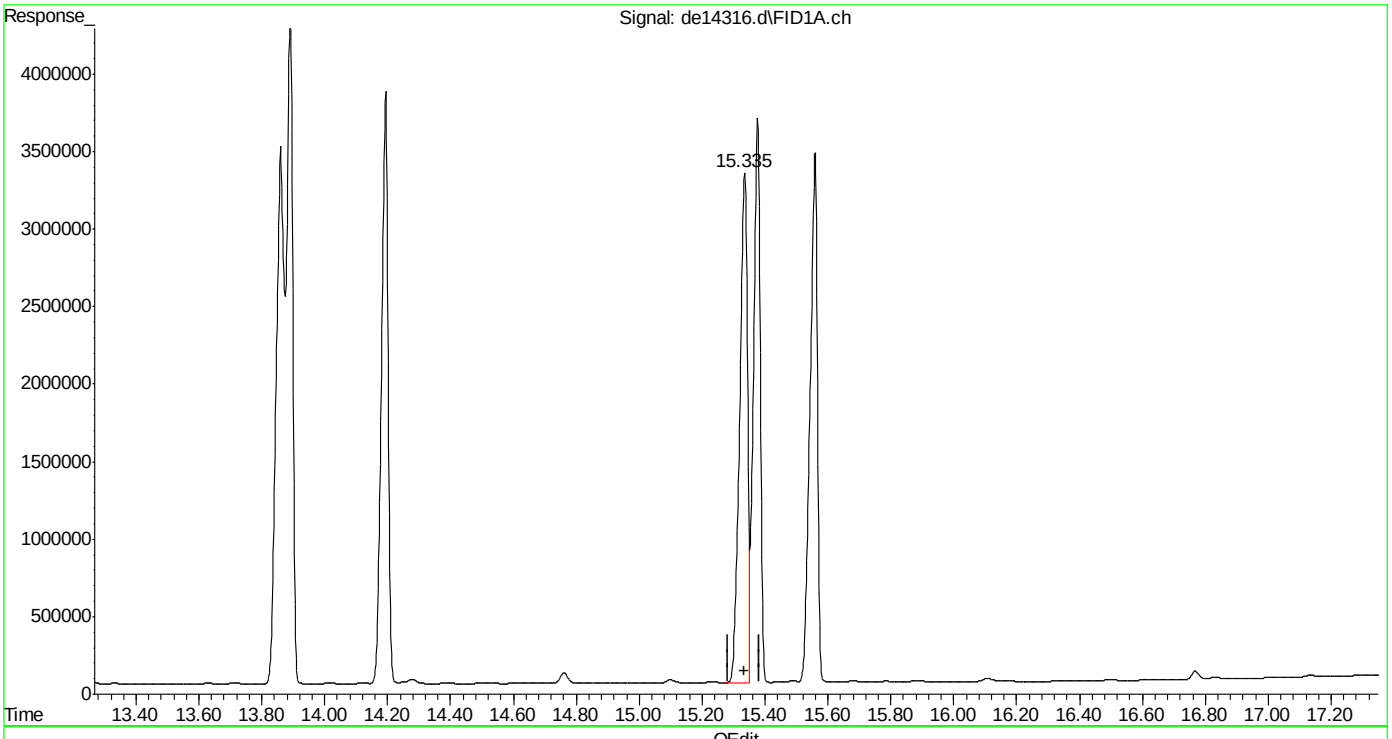
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 7:45 am
Operator : andrip
Sample : cc735-50,gde801
Misc : op47648,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:48:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.335min 60.406 µg/ml m
response 5717931

(+) = Expected Retention Time
EPH160531W.M Tue May 31 09:50:08 2016

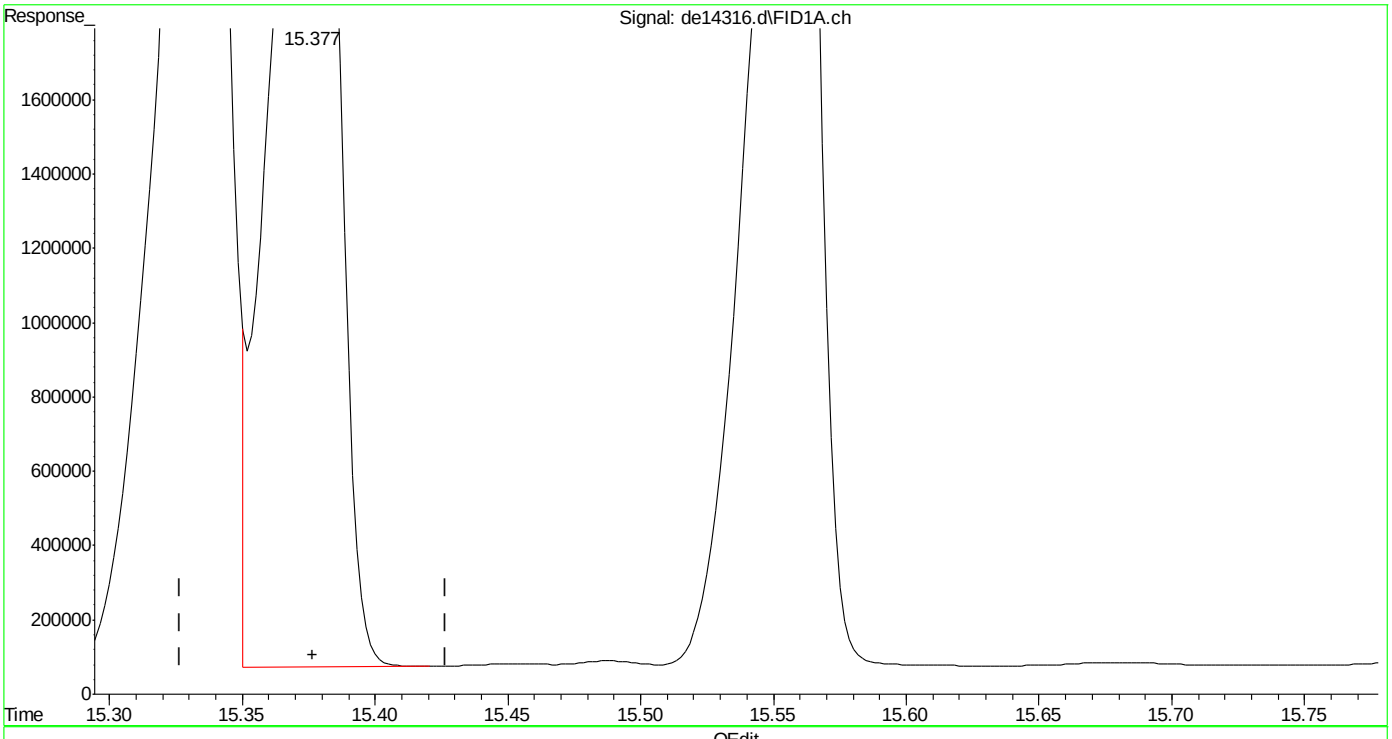
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 7:45 am
Operator : andrip
Sample : cc735-50,gde801
Misc : op47648,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:48:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.377min 60.461 µg/ml
response 5526096

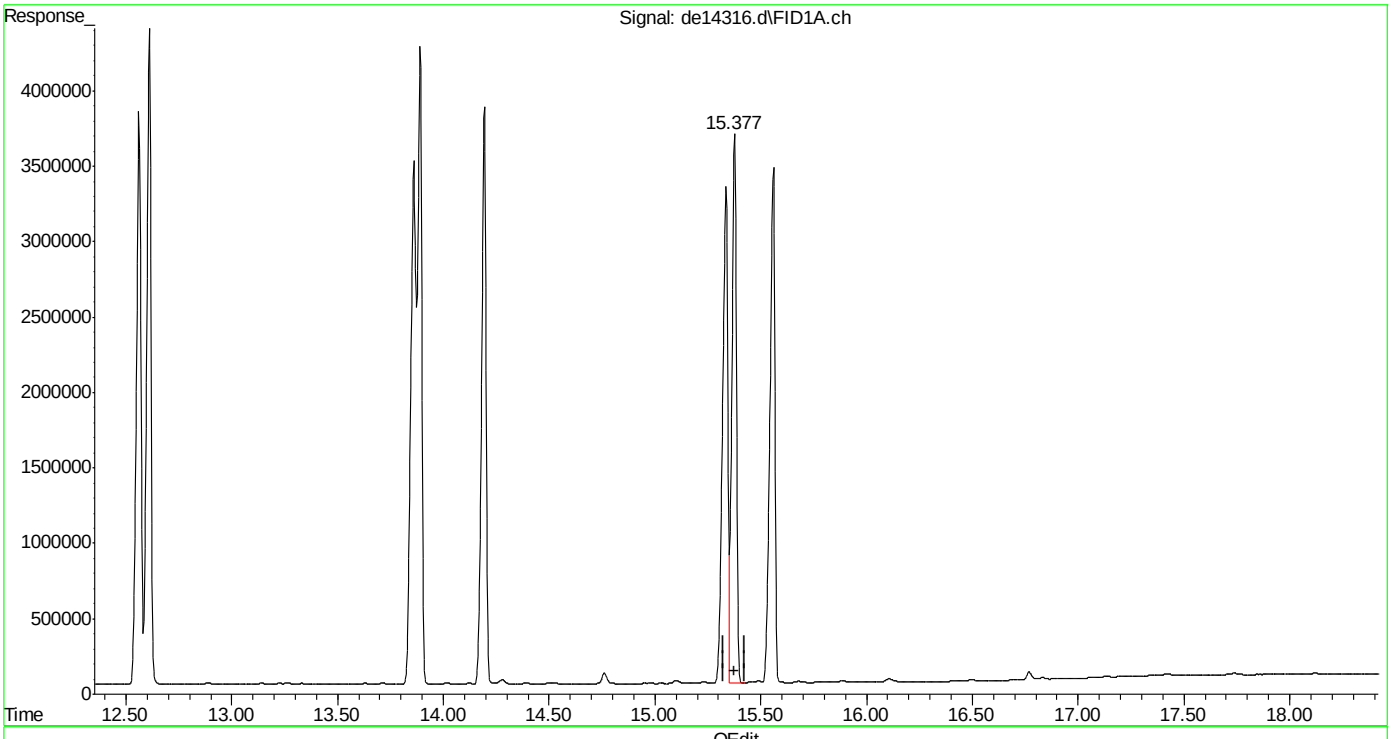
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 7:45 am
Operator : andrip
Sample : cc735-50,gde801
Misc : op47648,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:48:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.377min 59.509 µg/ml m
response 5439030

(+) = Expected Retention Time
EPH160531W.M Tue May 31 09:50:24 2016

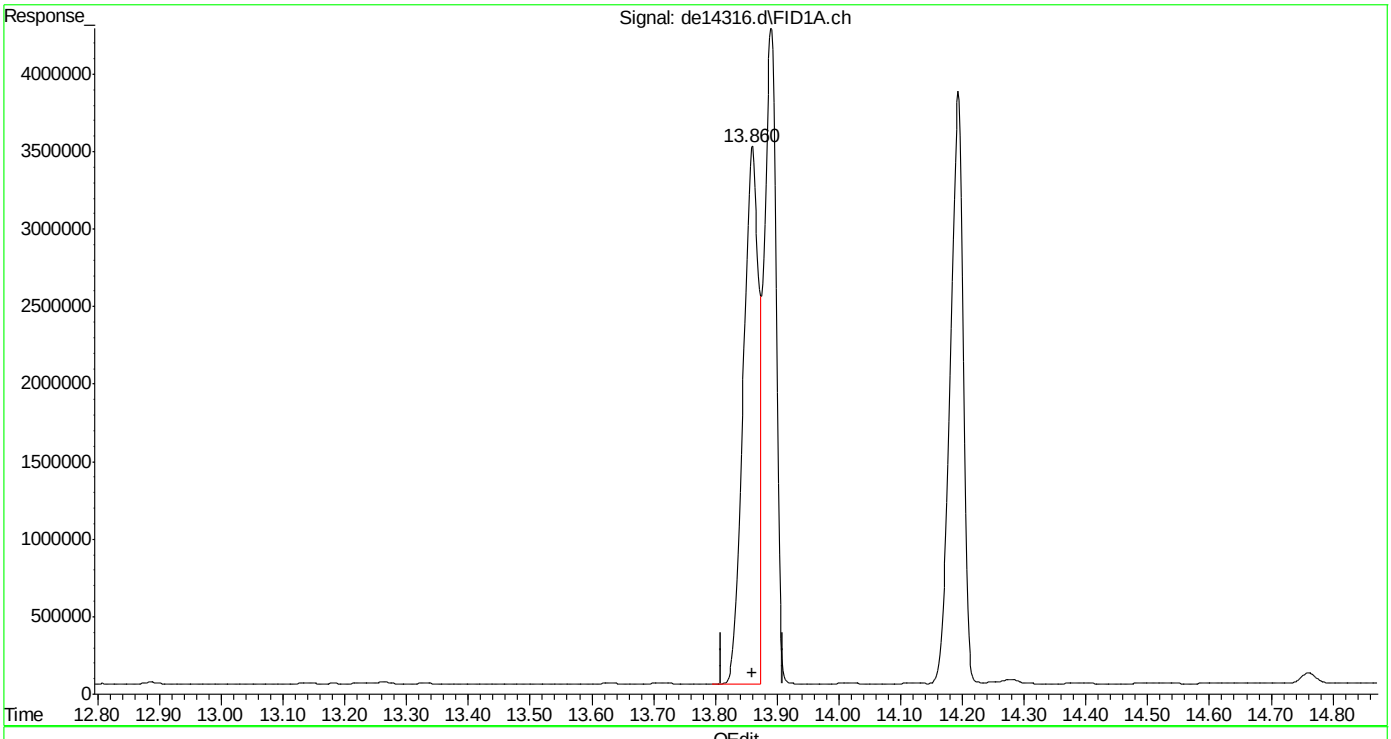
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14316.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 7:45 am
Operator : andrip
Sample : cc735-50,gde801
Misc : op47648,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 09:50:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
13.860min 60.600 µg/ml m
response 5999573

(+) = Expected Retention Time
EPH160531W.M Tue May 31 11:14:43 2016

SGS ACCUTEST MC45816A

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/01/16 13:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14327.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:02 pm
Operator : andrip
Sample : cc735-50,gde801
Misc : op47572,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 13:55:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.618	5607189	60.796 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 303.98%#	
6) s 2-bromonaphthalene	7.347	3736467	59.541 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 297.70%#	
11) s o-terphenyl	9.883	6085915	59.417 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 297.08%#	
35) s 1-chlorooctadecane	11.225	3231753	57.123 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 285.62%#	
Target Compounds			
2) naphthalene	5.168	6306460	61.145 µg/ml
3) 2-methylnaphthalene	6.067	6151367	60.024 µg/ml
5) acenaphthylene	7.180	6105359	60.688 µg/ml
7) acenaphthene	7.422	6386830	61.782 µg/ml
8) fluorene	8.065	6149120	60.542 µg/ml
9) phenanthrene	9.245	6036261	59.317 µg/ml
10) anthracene	9.302	5825341	60.050 µg/ml
12) fluoranthene	10.747	5872433	58.759 µg/ml
13) pyrene	11.003	6009576	59.230 µg/ml
14) benzo(a)anthracene	12.565	5527370	57.175 µg/ml
15) chrysene	12.613	5655513	58.100 µg/ml
16) benzo(B)fluoranthene	13.863	5558369	56.144 µg/mlm
17) benzo(k)fluoranthene	13.895	5596192	59.217 µg/mlm
18) benzo(a)pyrene	14.198	5284587	57.171 µg/ml
19) indeno(1,2,3-cd)pyrene	15.340	5279636	55.776 µg/ml
20) dibenzo(ah)anthracene	15.383	5255123	57.497 µg/ml
21) benzo(ghi)perylene	15.563	5184891	56.282 µg/ml
25) h c-9	2.647	4261955	57.694 µg/mlm
26) h c-10	3.815	4303053	58.250 µg/ml
27) naphthalene #2	5.487	4582398	57.372 µg/ml
28) c-12	5.665	4265197	57.738 µg/ml
29) 2-methylnaphthalene #2	6.380	4575666	56.794 µg/ml
30) c-14	7.182	4225783	57.204 µg/ml
31) c-16	8.510	4157256	56.276 µg/ml
32) c-18	9.705	4126705	55.863 µg/ml
33) c-19	10.260	4085038	61.147 µg/ml
34) c-20	10.792	4003739	59.930 µg/ml
36) c-22	11.787	3967204	59.384 µg/ml
37) c-24	12.703	3681724	55.110 µg/ml
38) c-26	13.553	3900702	58.388 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14327.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:02 pm
Operator : andrip
Sample : cc735-50,gde801
Misc : op47572,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 13:55:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
39)	c-28	14.348	3750551	56.141 µg/ml
40) h	c-30	15.098	3722691	55.724 µg/ml
41) h	c-36	16.983	3414648	51.113 µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.10

9

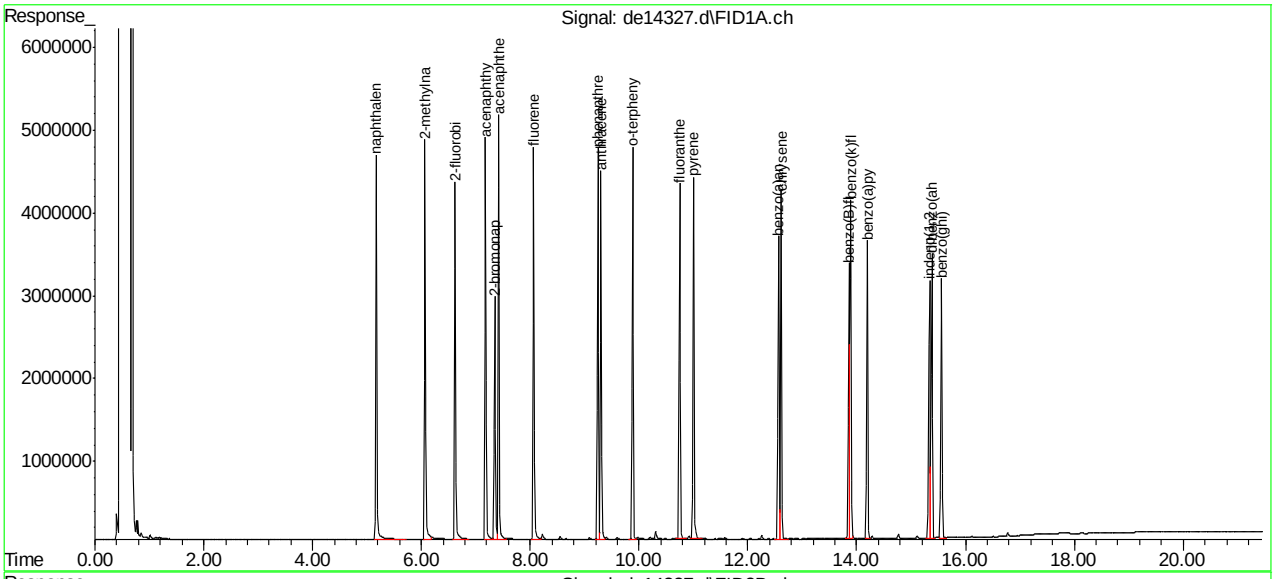
SGS ACCUTEST MC45816A

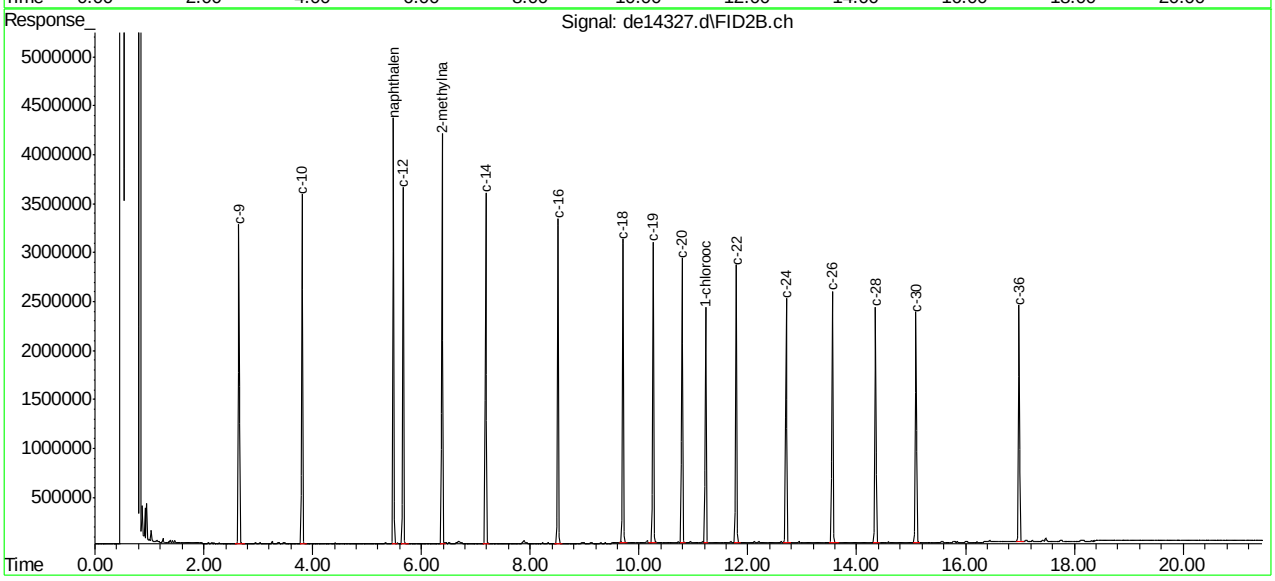
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14327.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:02 pm
Operator : andrip
Sample : cc735-50,gde801
Misc : op47572,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

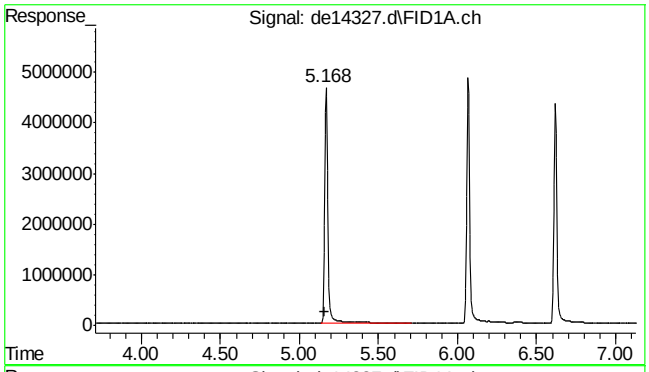
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 13:55:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



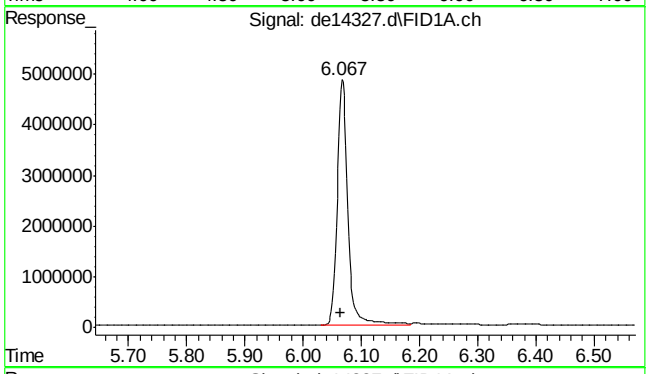


SGS ACCUTEST MC45816A



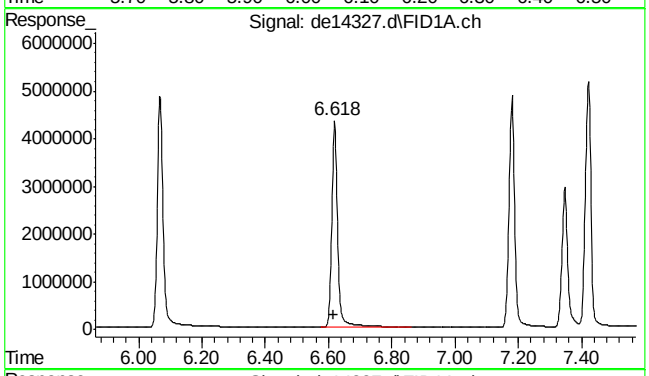
#2 naphthalene

R.T.: 5.168 min
Delta R.T.: 0.005 min
Response: 6306460
Conc: 61.14 µg/ml



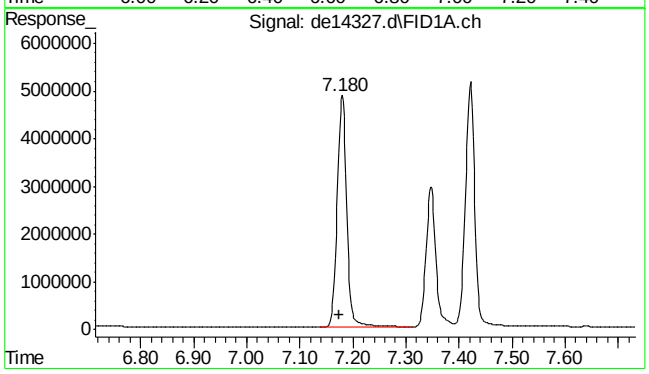
#3 2-methylnaphthalene

R.T.: 6.067 min
Delta R.T.: 0.003 min
Response: 6151367
Conc: 60.02 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.618 min
Delta R.T.: 0.003 min
Response: 5607189
Conc: 60.80 µg/ml



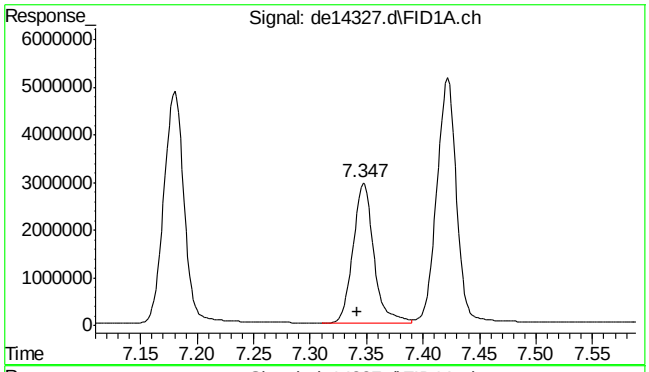
#5 acenaphthylene

R.T.: 7.180 min
Delta R.T.: 0.005 min
Response: 6105359
Conc: 60.69 µg/ml

9.5.10

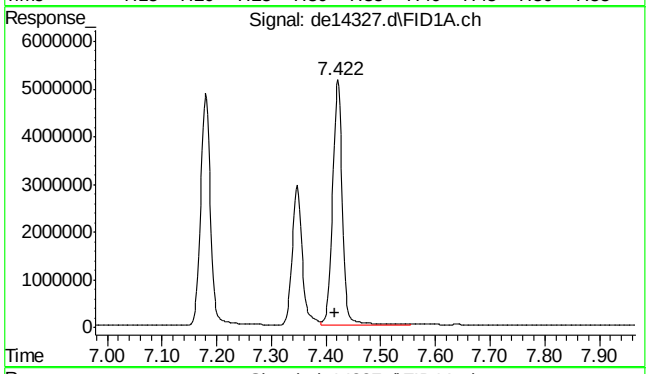
9

SGS ACCUTEST MC45816A



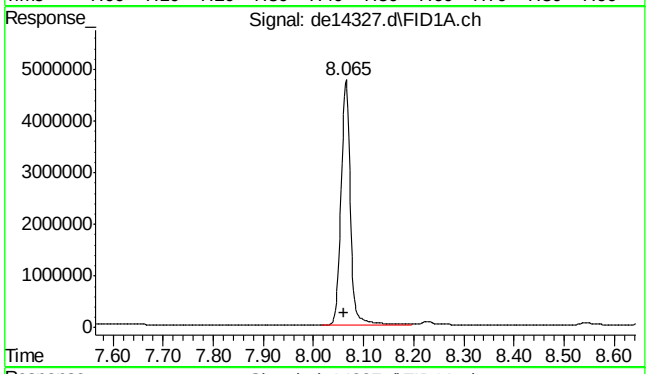
#6 2-bromonaphthalene

R.T.: 7.347 min
Delta R.T.: 0.005 min
Response: 3736467
Conc: 59.54 µg/ml



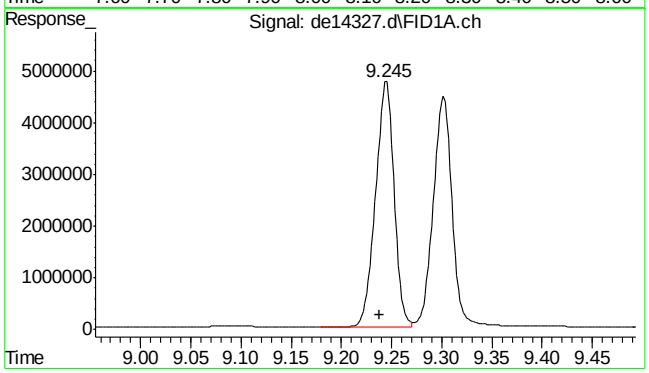
#7 acenaphthene

R.T.: 7.422 min
Delta R.T.: 0.005 min
Response: 6386830
Conc: 61.78 µg/ml



#8 fluorene

R.T.: 8.065 min
Delta R.T.: 0.005 min
Response: 6149120
Conc: 60.54 µg/ml



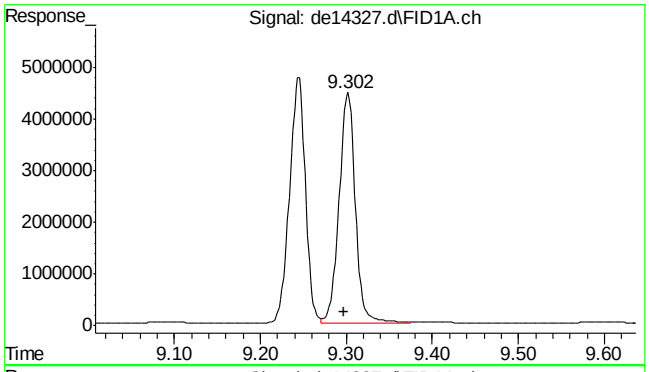
#9 phenanthrene

R.T.: 9.245 min
Delta R.T.: 0.007 min
Response: 6036261
Conc: 59.32 µg/ml

9.5.10

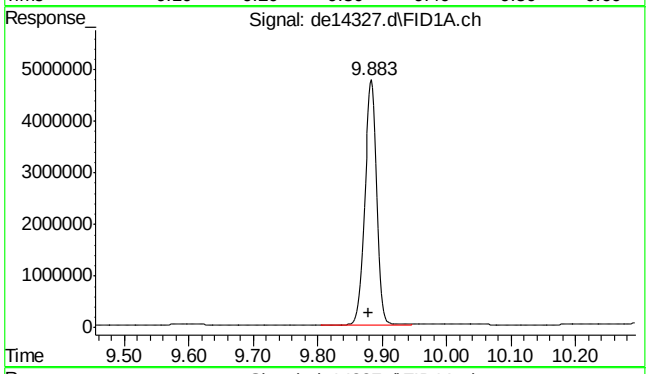
9

SGS ACCUTEST MC45816A



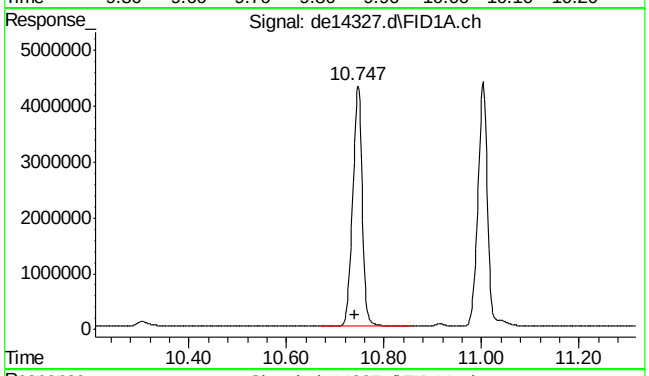
#10 anthracene

R.T.: 9.302 min
Delta R.T.: 0.005 min
Response: 5825341
Conc: 60.05 µg/ml



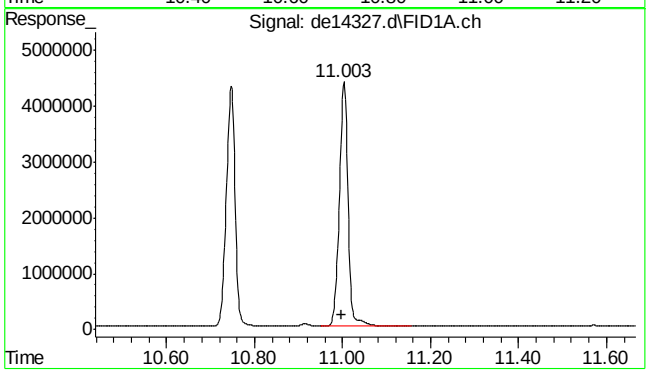
#11 o-terphenyl

R.T.: 9.883 min
Delta R.T.: 0.005 min
Response: 6085915
Conc: 59.42 µg/ml



#12 fluoranthene

R.T.: 10.747 min
Delta R.T.: 0.005 min
Response: 5872433
Conc: 58.76 µg/ml



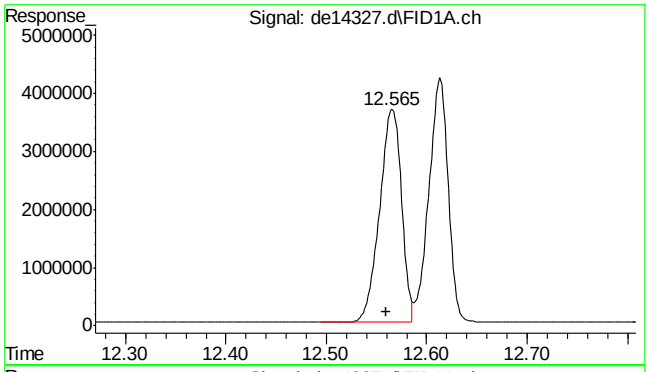
#13 pyrene

R.T.: 11.003 min
Delta R.T.: 0.005 min
Response: 6009576
Conc: 59.23 µg/ml

9.5.10

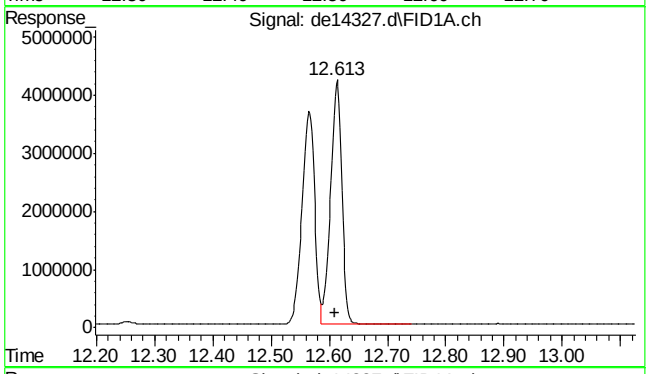
9

SGS ACCUTEST MC45816A



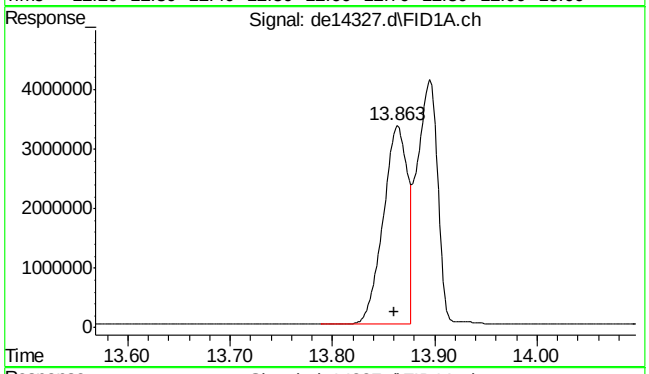
#14 benzo(a)anthracene

R.T.: 12.565 min
Delta R.T.: 0.005 min
Response: 5527370
Conc: 57.17 µg/ml



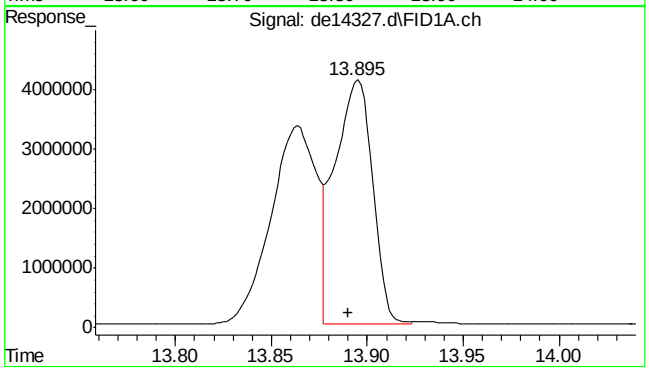
#15 chrysene

R.T.: 12.613 min
Delta R.T.: 0.003 min
Response: 5655513
Conc: 58.10 µg/ml



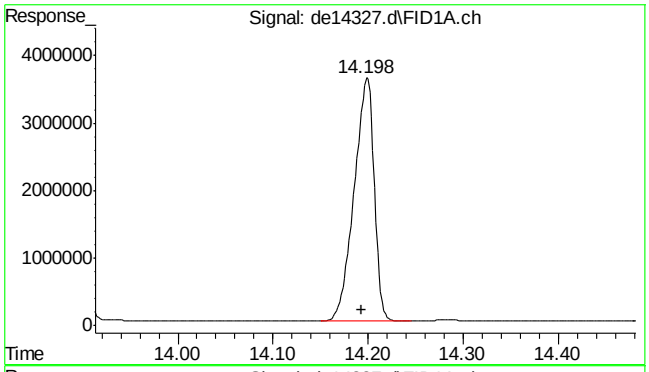
#16 benzo(B)fluoranthene

R.T.: 13.863 min
Delta R.T.: 0.003 min
Response: 5558369
Conc: 56.14 µg/ml m



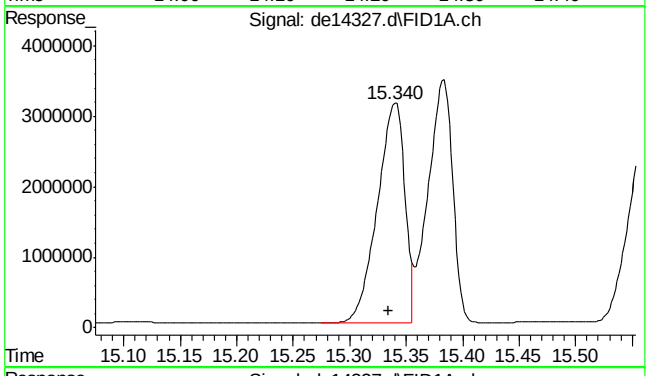
#17 benzo(k)fluoranthene

R.T.: 13.895 min
Delta R.T.: 0.005 min
Response: 5596192
Conc: 59.22 µg/ml m



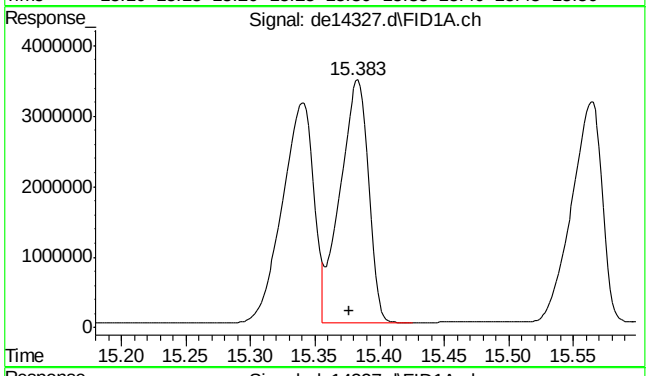
#18 benzo(a)pyrene

R.T.: 14.198 min
Delta R.T.: 0.005 min
Response: 5284587
Conc: 57.17 µg/ml



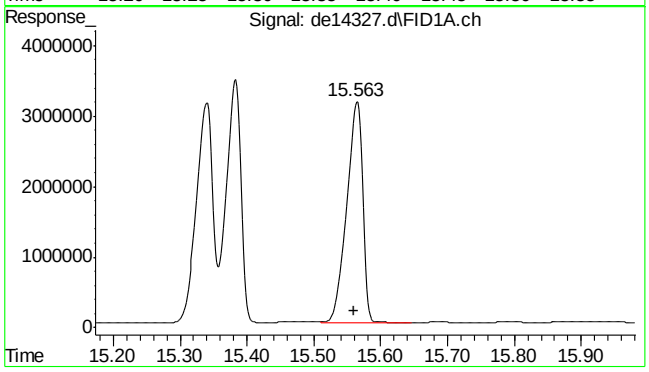
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.340 min
Delta R.T.: 0.005 min
Response: 5279636
Conc: 55.78 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.383 min
Delta R.T.: 0.007 min
Response: 5255123
Conc: 57.50 µg/ml



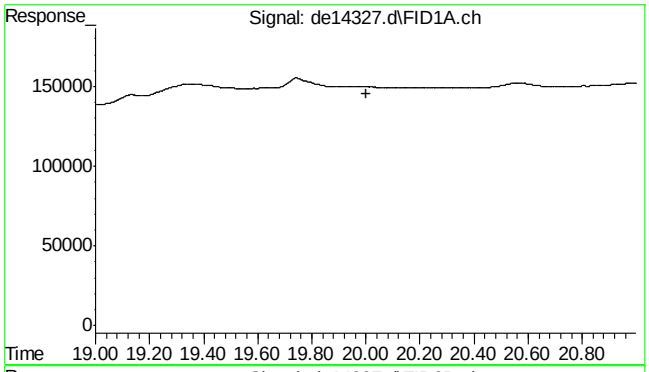
#21 benzo(ghi)perylene

R.T.: 15.563 min
Delta R.T.: 0.003 min
Response: 5184891
Conc: 56.28 µg/ml

9.5.10

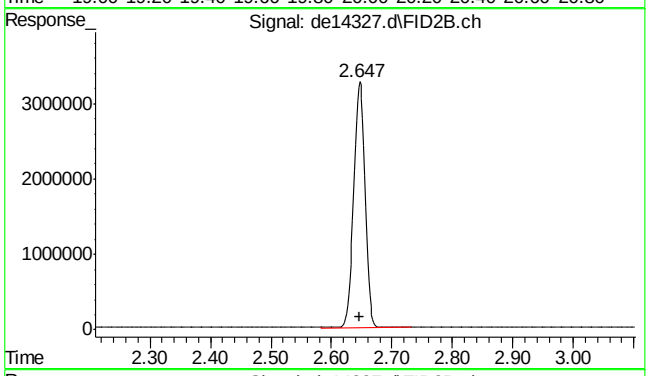
9

SGS ACCUTEST MC45816A



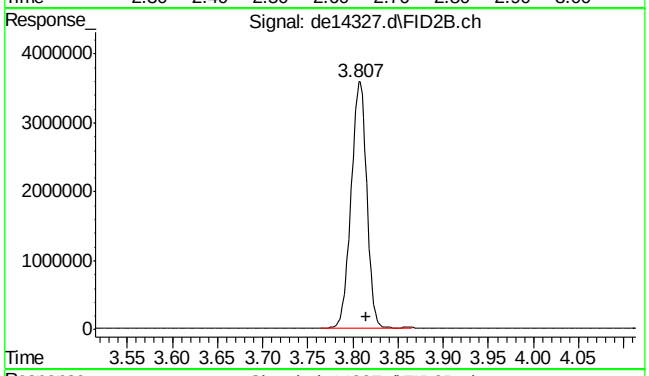
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



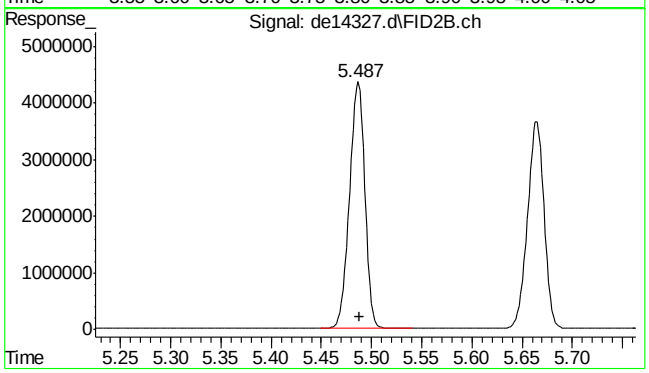
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4261955
Conc: 57.69 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4303053
Conc: 58.25 µg/ml



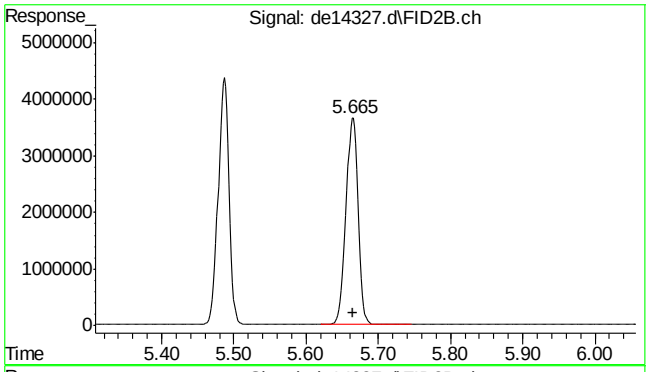
#27 naphthalene #2

R.T.: 5.487 min
Delta R.T.: -0.002 min
Response: 4582398
Conc: 57.37 µg/ml

9.5.10

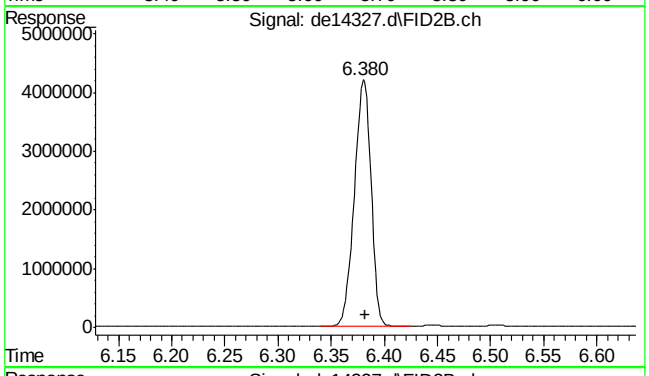
9

SGS ACCUTEST MC45816A



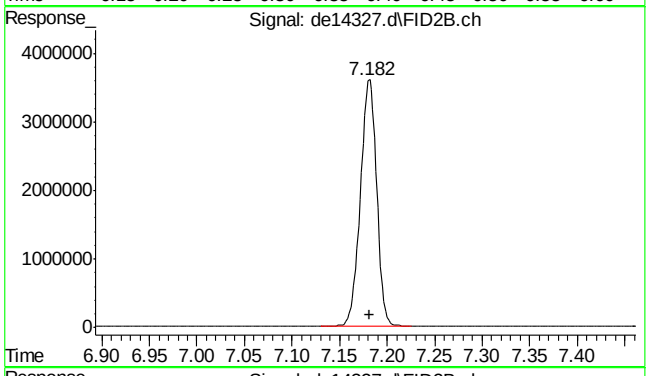
#28 c-12

R.T.: 5.665 min
Delta R.T.: 0.000 min
Response: 4265197
Conc: 57.74 µg/ml



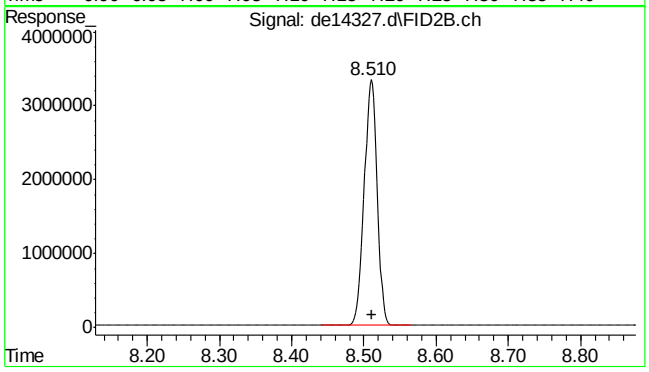
#29 2-methylnaphthalene #2

R.T.: 6.380 min
Delta R.T.: -0.002 min
Response: 4575666
Conc: 56.79 µg/ml



#30 c-14

R.T.: 7.182 min
Delta R.T.: 0.000 min
Response: 4225783
Conc: 57.20 µg/ml



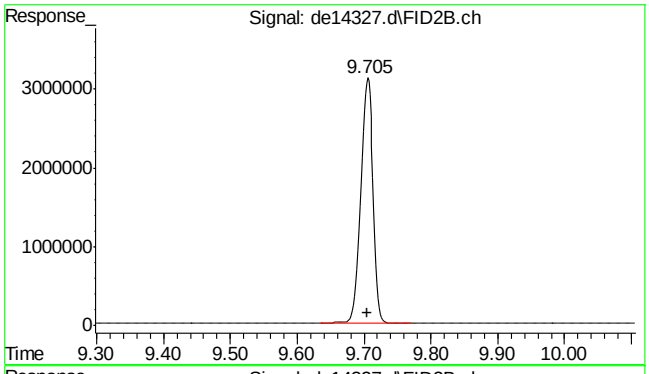
#31 c-16

R.T.: 8.510 min
Delta R.T.: -0.002 min
Response: 4157256
Conc: 56.28 µg/ml

9.5.10

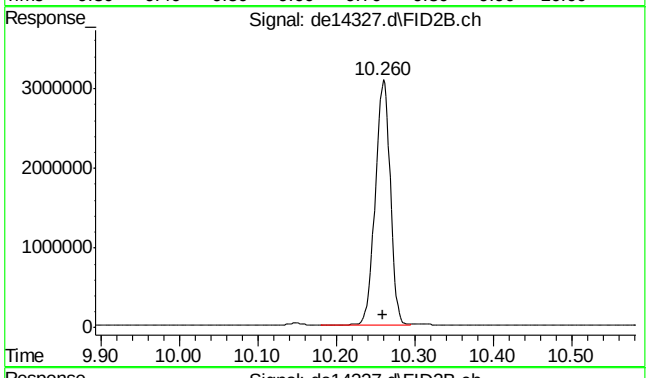
9

SGS ACCUTEST MC45816A



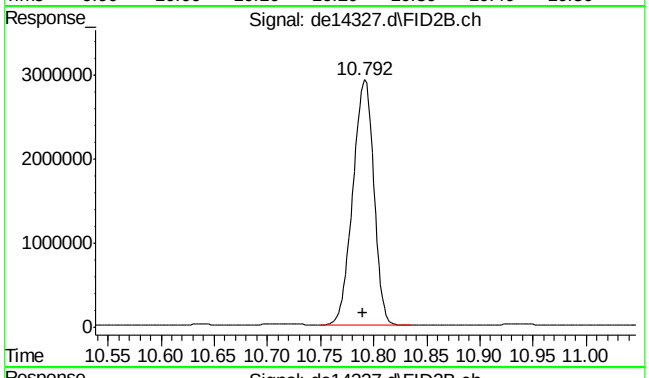
#32 c-18

R.T.: 9.705 min
Delta R.T.: 0.000 min
Response: 4126705
Conc: 55.86 µg/ml



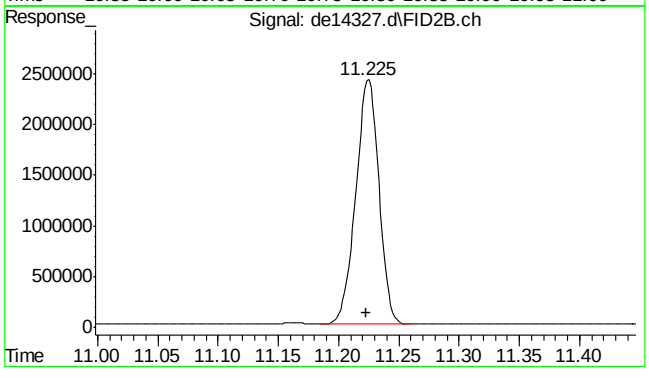
#33 c-19

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 4085038
Conc: 61.15 µg/ml



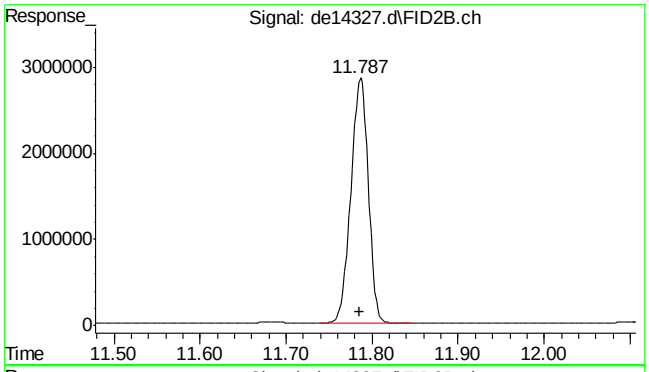
#34 c-20

R.T.: 10.792 min
Delta R.T.: 0.002 min
Response: 4003739
Conc: 59.93 µg/ml



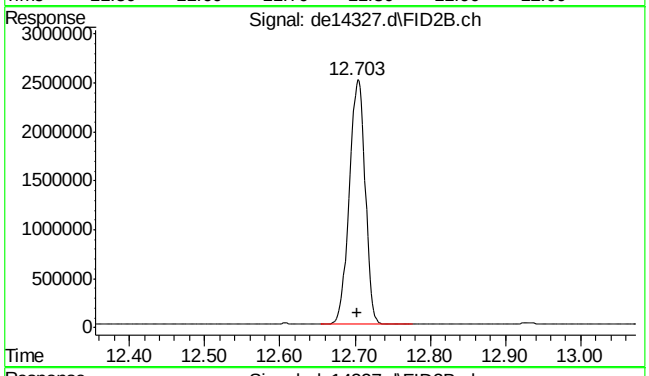
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: 0.002 min
Response: 3231753
Conc: 57.12 µg/ml



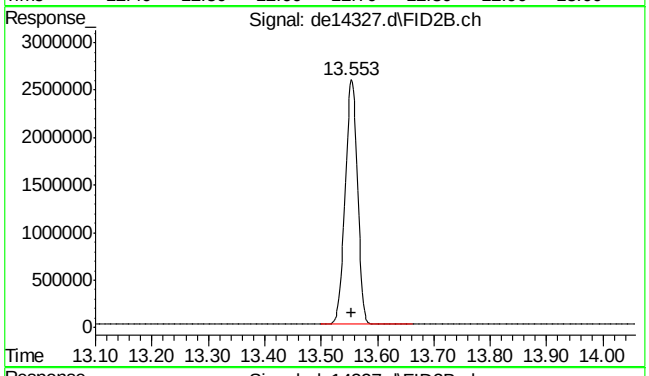
#36 c-22

R.T.: 11.787 min
Delta R.T.: 0.002 min
Response: 3967204
Conc: 59.38 µg/ml



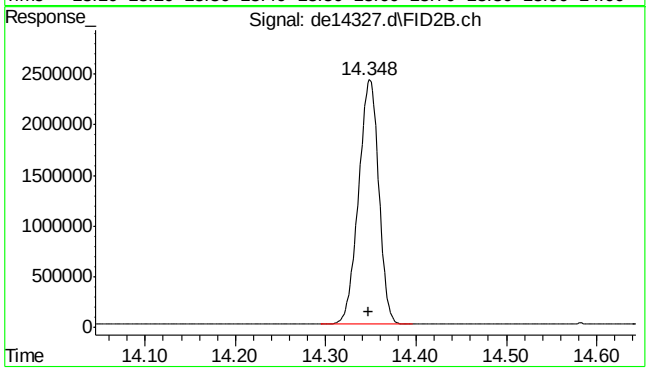
#37 c-24

R.T.: 12.703 min
Delta R.T.: 0.000 min
Response: 3681724
Conc: 55.11 µg/ml



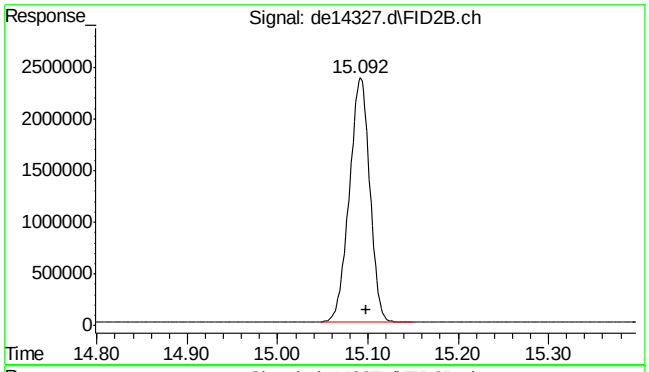
#38 c-26

R.T.: 13.553 min
Delta R.T.: 0.000 min
Response: 3900702
Conc: 58.39 µg/ml



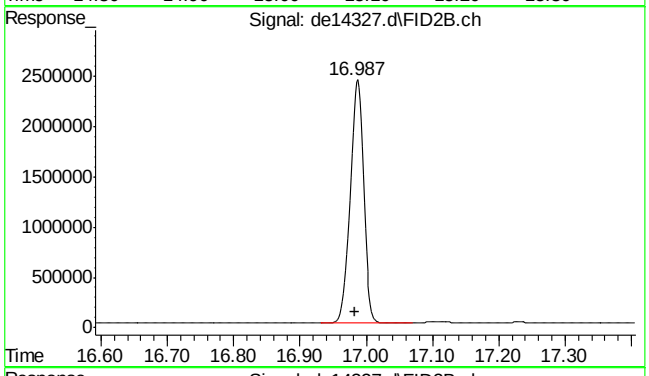
#39 c-28

R.T.: 14.348 min
Delta R.T.: 0.002 min
Response: 3750551
Conc: 56.14 µg/ml



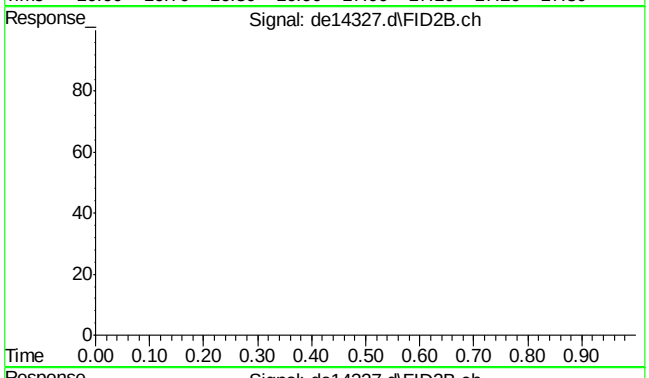
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3722691
Conc: 55.72 µg/ml



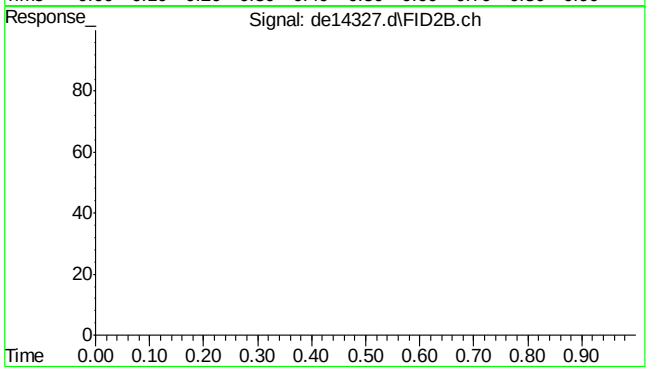
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3414648
Conc: 51.11 µg/ml m



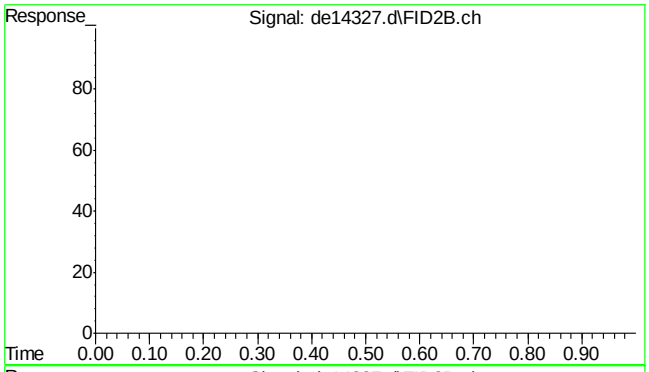
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



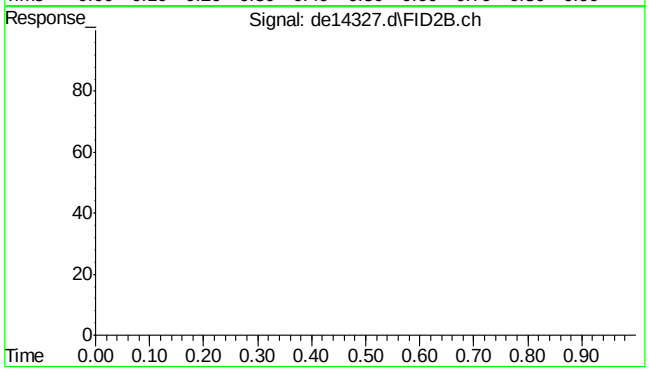
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.10

9

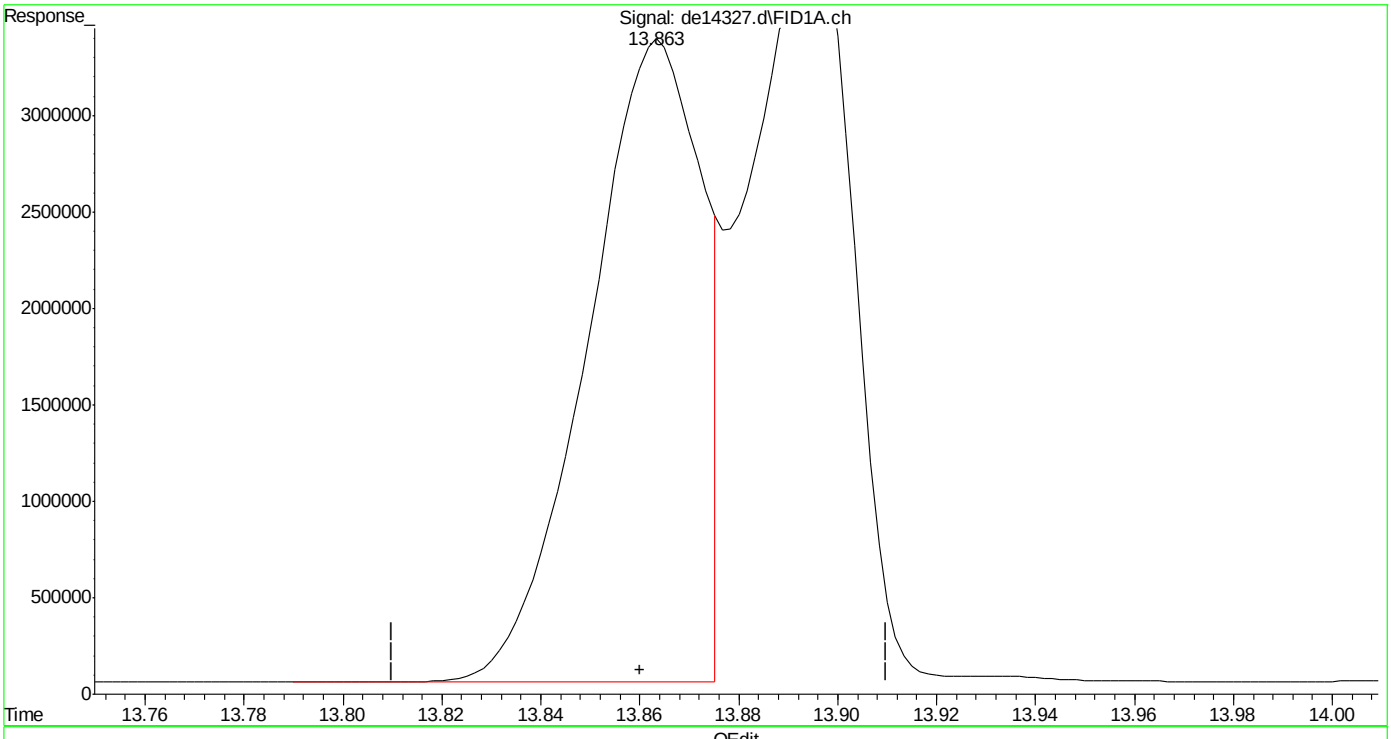
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14327.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 31 May 2016   1:02 pm
Operator  : andrip
Sample    : cc735-50,gde801
Misc      : op47572,gde801,11,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 13:54:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(16) benzo(B)fluoranthene

13.863min 53.772 µg/ml

response 5323554

(+) = Expected Retention Time

EPH160531W.M Tue May 31 13:54:18 2016

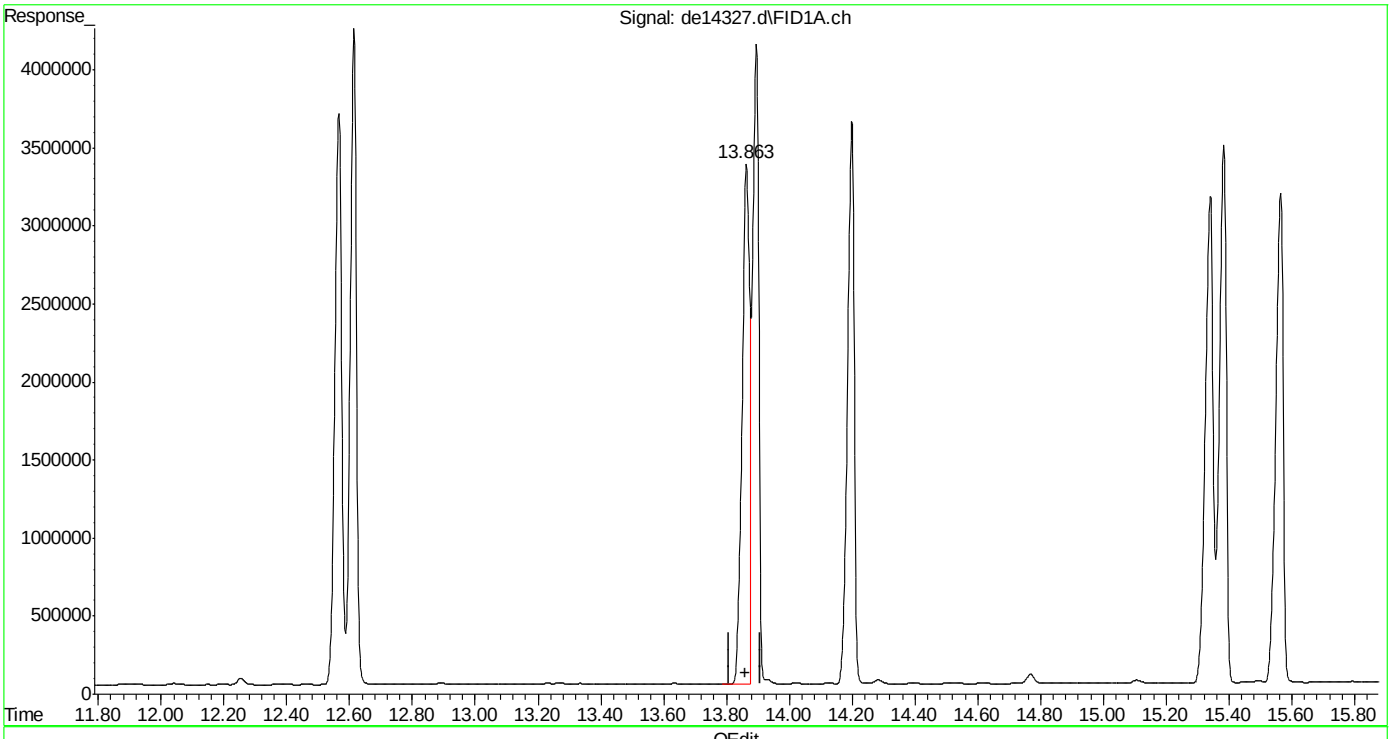
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14327.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:02 pm
Operator : andrip
Sample : cc735-50,gde801
Misc : op47572,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 13:54:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
13.863min 56.144 µg/ml m
response 5558369

(+) = Expected Retention Time
EPH160531W.M Tue May 31 13:54:29 2016

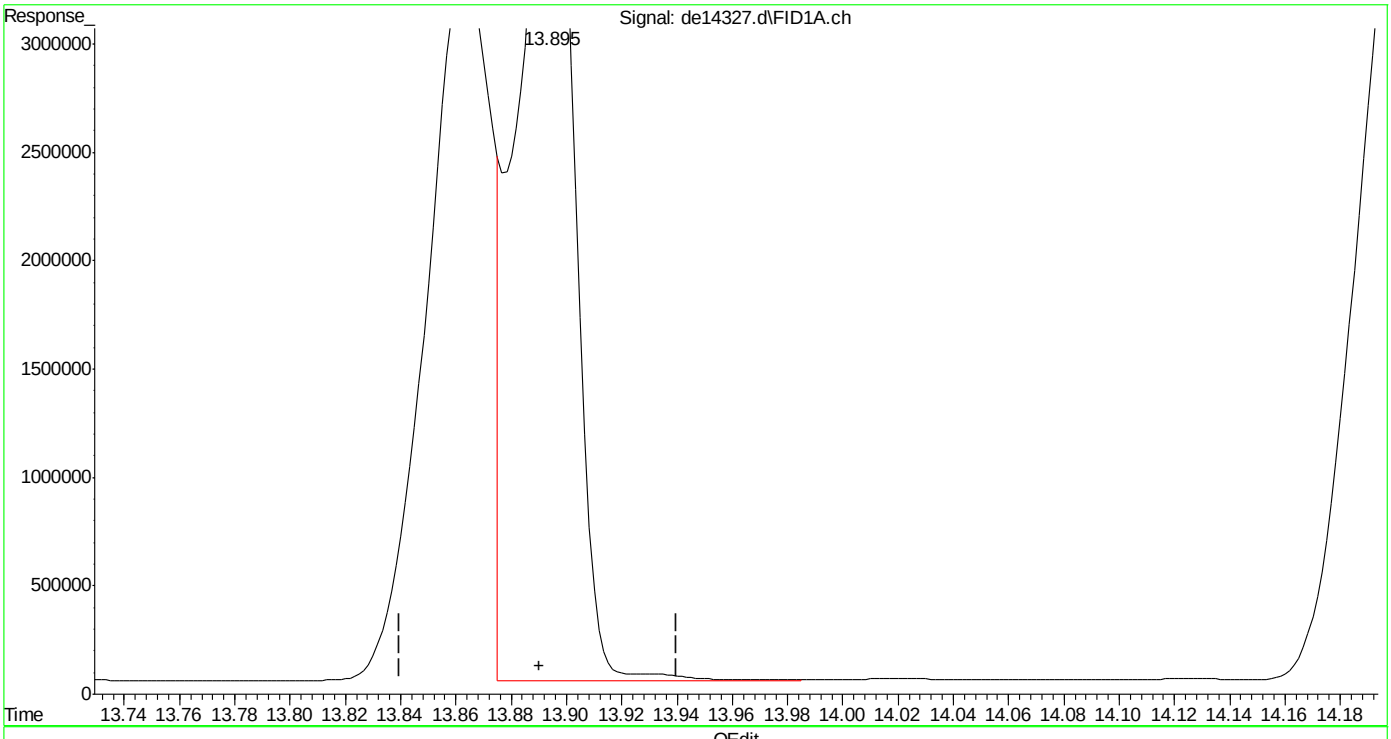
SGS ACCUTEST MC45816A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14327.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:02 pm
Operator : andrip
Sample : cc735-50,gde801
Misc : op47572,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 13:54:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
13.895min 62.107 µg/ml
response 5869226

(+) = Expected Retention Time

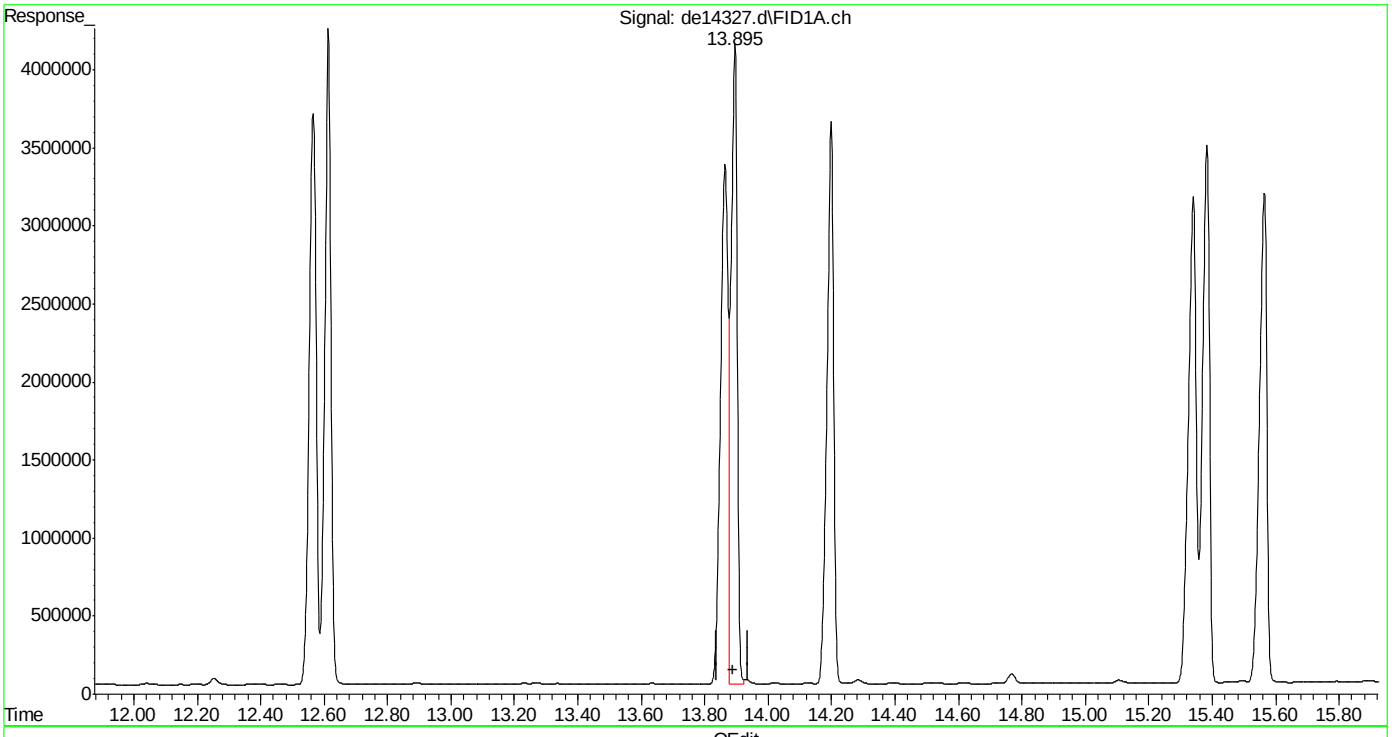
EPH160531W.M Tue May 31 13:54:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14327.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 1:02 pm
Operator : andrip
Sample : cc735-50,gde801
Misc : op47572,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 31 13:54:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
13.895min 59.217 µg/ml m
response 5596192

(+) = Expected Retention Time
EPH160531W.M Tue May 31 13:54:43 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14338.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 6:07 pm
Operator : andrip
Sample : cc735-50,gde801
Misc : op47552,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 01 07:17:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.622	5083380	55.116 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 275.58%#
6) s	2-bromonaphthalene	7.350	3400085	54.180 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 270.90%#
11) s	o-terphenyl	9.883	5565630	54.338 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 271.69%#
35) s	1-chlorooctadecane	11.225	3261249	57.645 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 288.23%#
	Target Compounds			
2)	naphthalene	5.172	5687563	55.144 µg/ml
3)	2-methylnaphthalene	6.070	5558951	54.243 µg/ml
5)	acenaphthylene	7.182	5534290	55.012 µg/ml
7)	acenaphthene	7.423	5798326	56.089 µg/ml
8)	fluorene	8.067	5595264	55.089 µg/ml
9)	phenanthrene	9.245	5523093	54.274 µg/ml
10)	anthracene	9.303	5318696	54.827 µg/ml
12)	fluoranthene	10.750	5403933	54.071 µg/ml
13)	pyrene	11.005	5535145	54.554 µg/ml
14)	benzo(a)anthracene	12.567	5215388	53.948 µg/ml
15)	chrysene	12.617	5213268	53.557 µg/ml
16)	benzo(B)fluoranthene	13.867	5507524	55.630 µg/ml
17)	benzo(k)fluoranthene	13.895	5073174	53.683 µg/ml
18)	benzo(a)pyrene	14.200	5000235	54.094 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.340	5199217	54.926 µg/ml
20)	dibenzo(ah)anthracene	15.383	4856314	53.133 µg/ml
21)	benzo(ghi)perylene	15.567	4956003	53.798 µg/ml
25) h	c-9	2.647	4268381	57.781 µg/mlm
26) h	c-10	3.815	4323296	58.524 µg/ml
27)	naphthalene #2	5.487	4607415	57.685 µg/ml
28)	c-12	5.665	4295972	58.154 µg/ml
29)	2-methylnaphthalene #2	6.380	4606302	57.174 µg/ml
30)	c-14	7.182	4258329	57.645 µg/ml
31)	c-16	8.512	4188273	56.696 µg/ml
32)	c-18	9.705	4158222	56.289 µg/ml
33)	c-19	10.260	4120582	61.679 µg/ml
34)	c-20	10.790	4033457	60.375 µg/ml
36)	c-22	11.785	3988893	59.708 µg/ml
37)	c-24	12.703	3706758	55.485 µg/ml
38)	c-26	13.553	3919283	58.666 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14338.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 6:07 pm
Operator : andrip
Sample : cc735-50,gde801
Misc : op47552,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 01 07:17:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.348	3771235	56.450	µg/ml
40) h	c-30	15.098	3727400	55.794	µg/mlm
41) h	c-36	16.983	3422110	51.224	µg/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.11

9

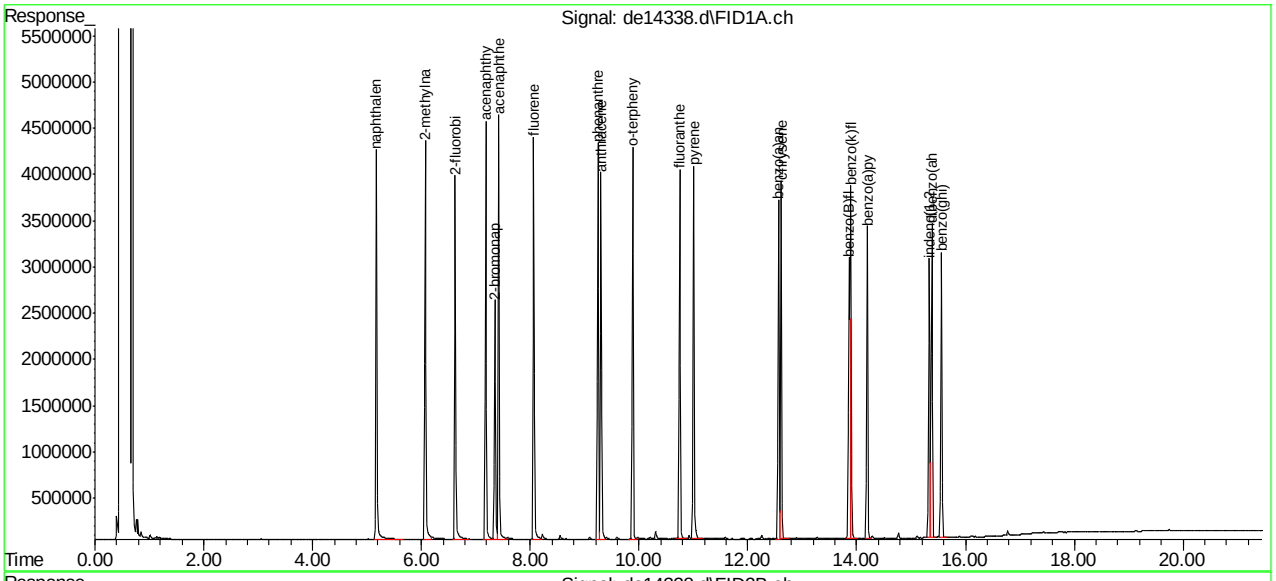
SGS ACCUTEST MC45816A

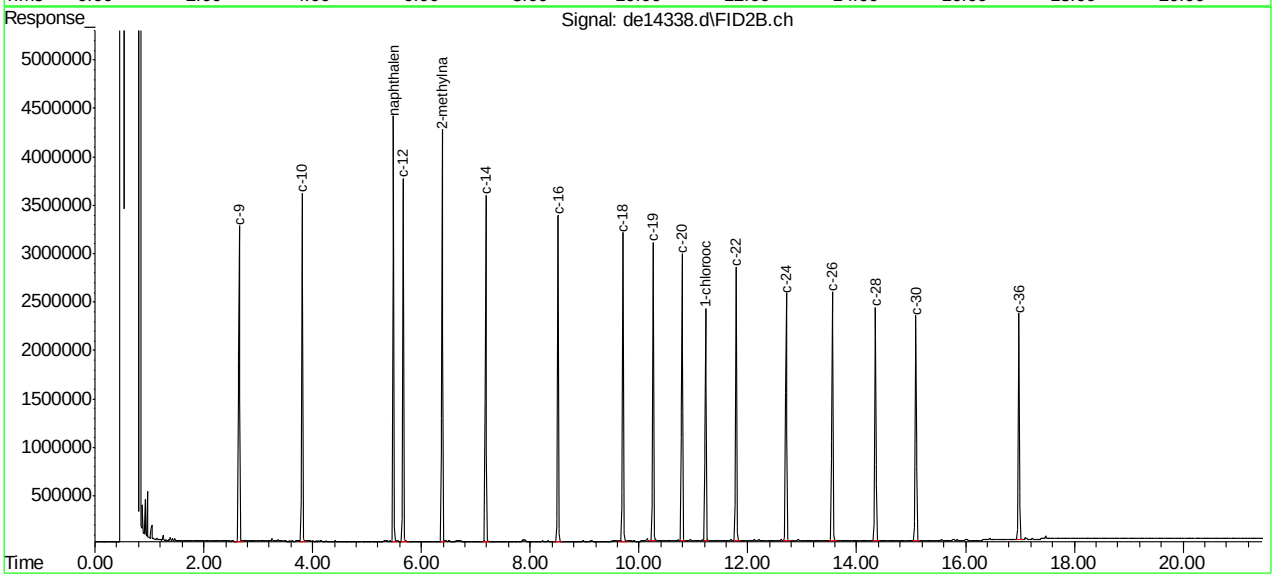
Quantitation Report (QT Reviewed)

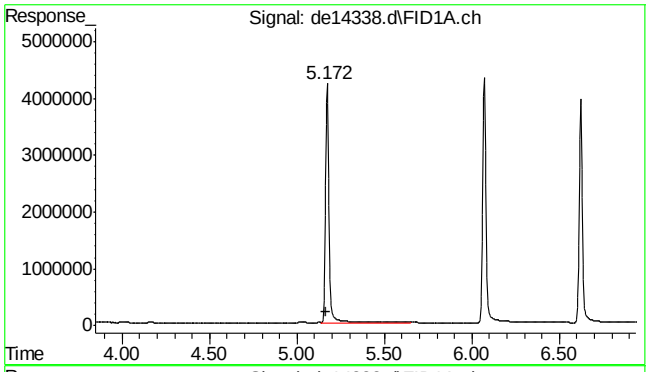
Data Path : C:\msdchem\1\DATA\DE160531EPH\
Data File : de14338.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 31 May 2016 6:07 pm
Operator : andrip
Sample : cc735-50,gde801
Misc : op47552,gde801,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 01 07:17:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160531W.M
Quant Title : BMAEPH-working method
QLast Update : Tue May 31 09:47:32 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

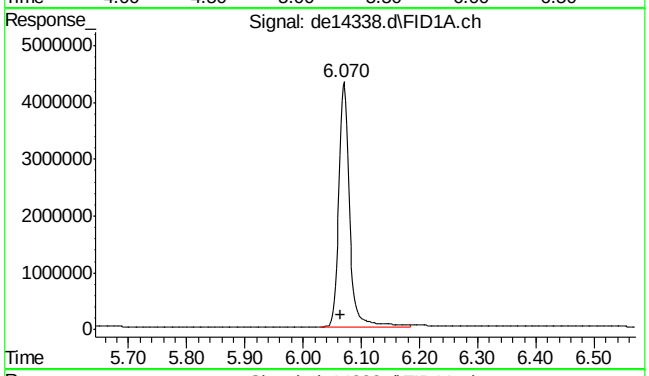






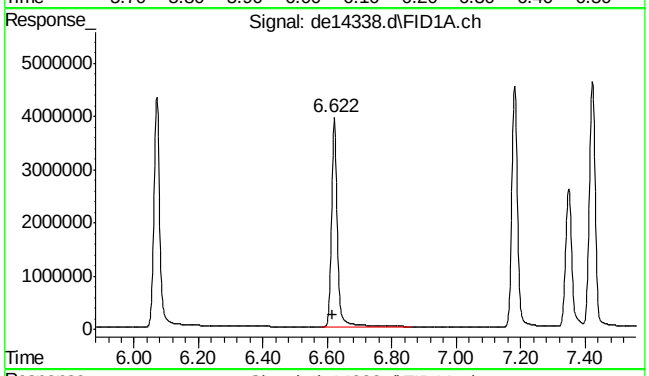
#2 naphthalene

R.T.: 5.172 min
Delta R.T.: 0.008 min
Response: 5687563
Conc: 55.14 µg/ml



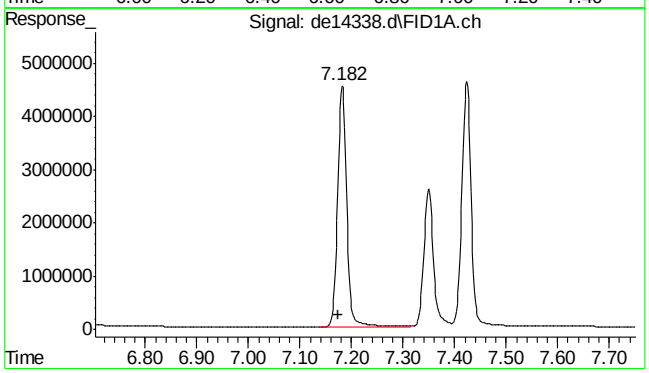
#3 2-methylnaphthalene

R.T.: 6.070 min
Delta R.T.: 0.007 min
Response: 5558951
Conc: 54.24 µg/ml



#4 2-fluorobiphenyl

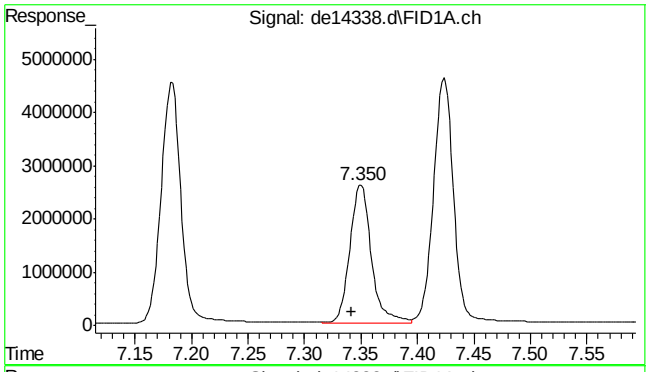
R.T.: 6.622 min
Delta R.T.: 0.007 min
Response: 5083380
Conc: 55.12 µg/ml



#5 acenaphthylene

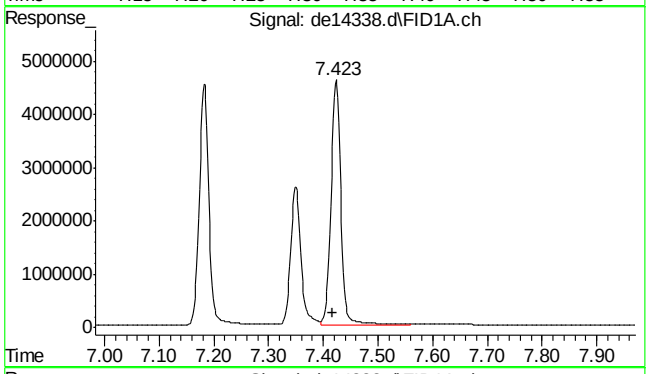
R.T.: 7.182 min
Delta R.T.: 0.007 min
Response: 5534290
Conc: 55.01 µg/ml

SGS ACCUTEST MC45816A



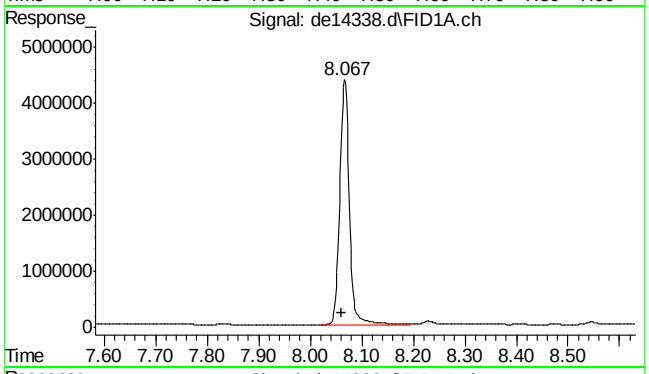
#6 2-bromonaphthalene

R.T.: 7.350 min
Delta R.T.: 0.008 min
Response: 3400085
Conc: 54.18 µg/ml



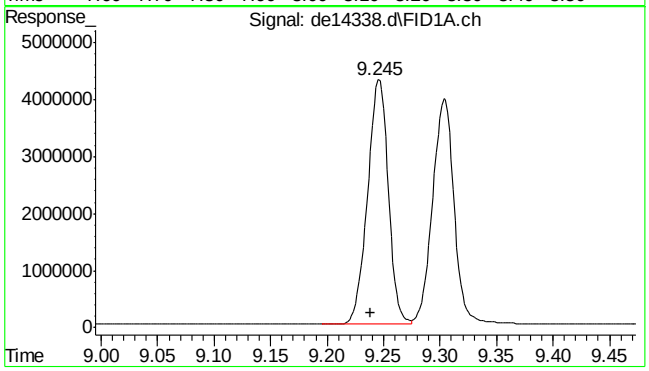
#7 acenaphthene

R.T.: 7.423 min
Delta R.T.: 0.007 min
Response: 5798326
Conc: 56.09 µg/ml



#8 fluorene

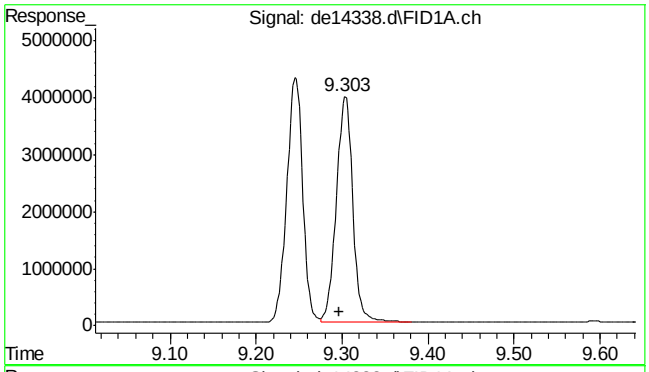
R.T.: 8.067 min
Delta R.T.: 0.007 min
Response: 5595264
Conc: 55.09 µg/ml



#9 phenanthrene

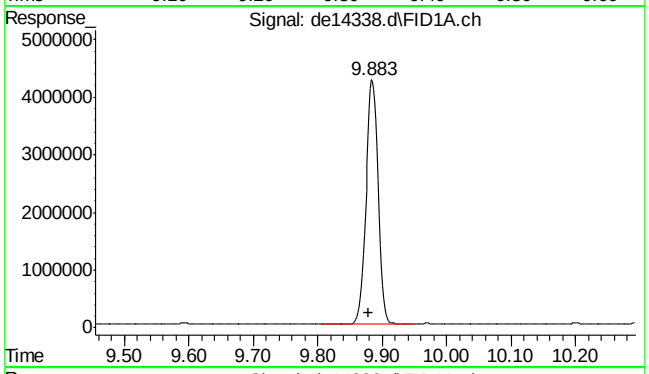
R.T.: 9.245 min
Delta R.T.: 0.007 min
Response: 5523093
Conc: 54.27 µg/ml

SGS ACCUTEST MC45816A



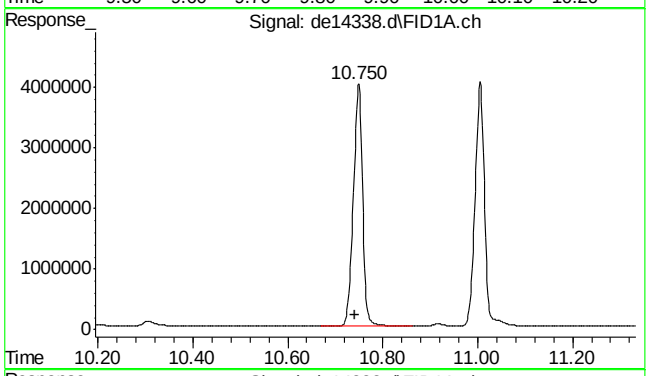
#10 anthracene

R.T.: 9.303 min
Delta R.T.: 0.007 min
Response: 5318696
Conc: 54.83 µg/ml



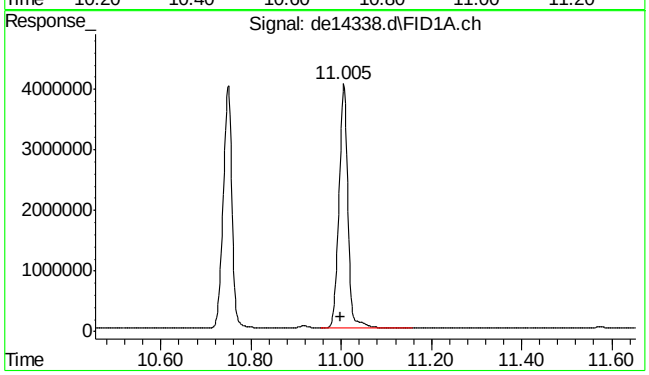
#11 o-terphenyl

R.T.: 9.883 min
Delta R.T.: 0.005 min
Response: 5565630
Conc: 54.34 µg/ml



#12 fluoranthene

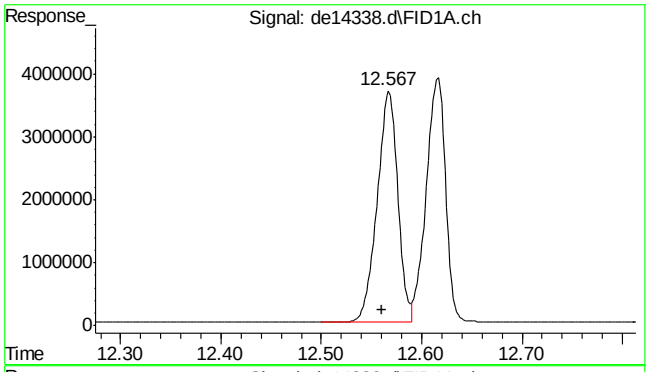
R.T.: 10.750 min
Delta R.T.: 0.008 min
Response: 5403933
Conc: 54.07 µg/ml



#13 pyrene

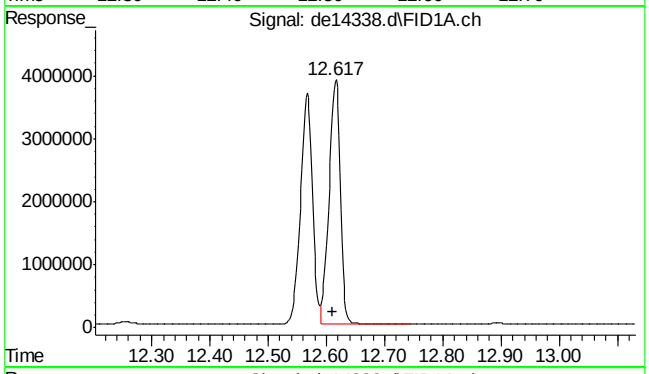
R.T.: 11.005 min
Delta R.T.: 0.007 min
Response: 5535145
Conc: 54.55 µg/ml

SGS ACCUTEST MC45816A



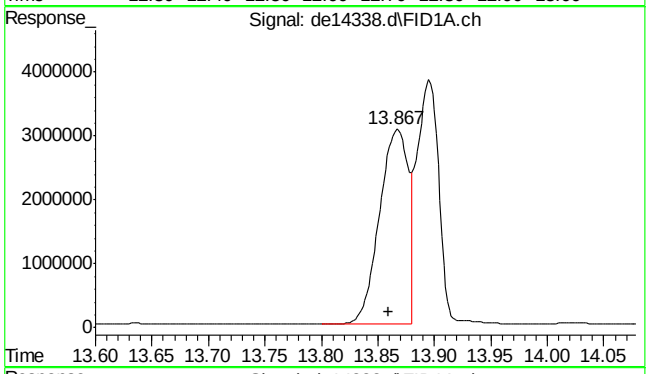
#14 benzo(a)anthracene

R.T.: 12.567 min
Delta R.T.: 0.007 min
Response: 5215388
Conc: 53.95 µg/ml



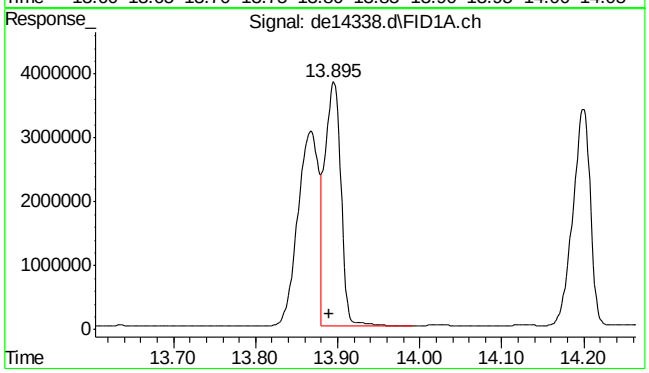
#15 chrysene

R.T.: 12.617 min
Delta R.T.: 0.007 min
Response: 5213268
Conc: 53.56 µg/ml



#16 benzo(B)fluoranthene

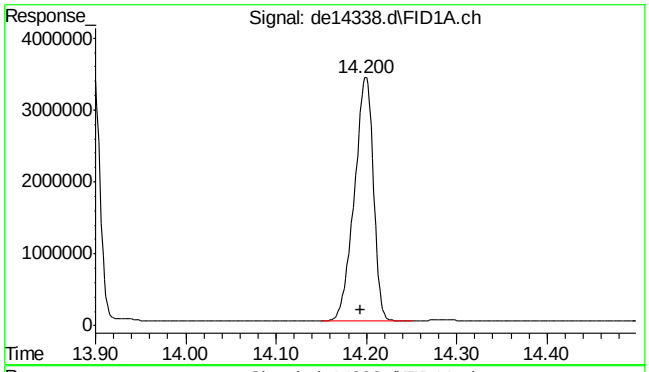
R.T.: 13.867 min
Delta R.T.: 0.007 min
Response: 5507524
Conc: 55.63 µg/ml



#17 benzo(k)fluoranthene

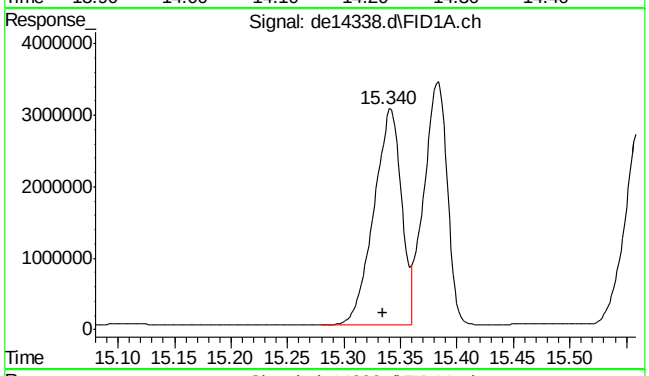
R.T.: 13.895 min
Delta R.T.: 0.005 min
Response: 5073174
Conc: 53.68 µg/ml

SGS ACCUTEST MC45816A



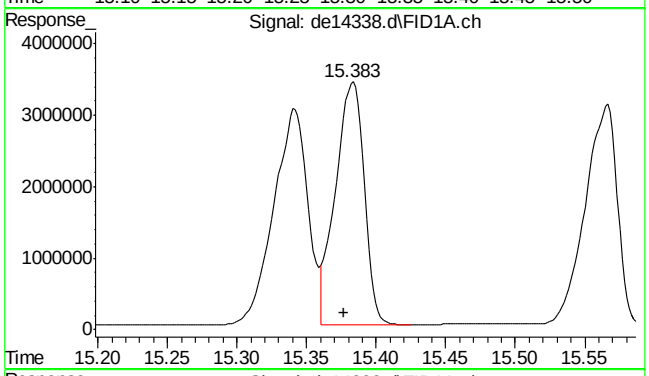
#18 benzo(a)pyrene

R.T.: 14.200 min
Delta R.T.: 0.007 min
Response: 5000235
Conc: 54.09 µg/ml



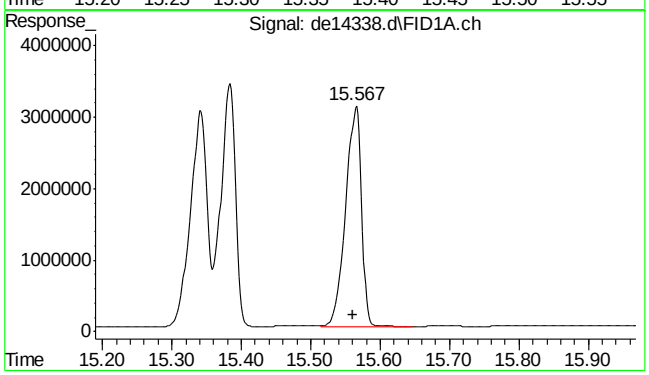
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.340 min
Delta R.T.: 0.005 min
Response: 5199217
Conc: 54.93 µg/ml



#20 dibenzo(ah)anthracene

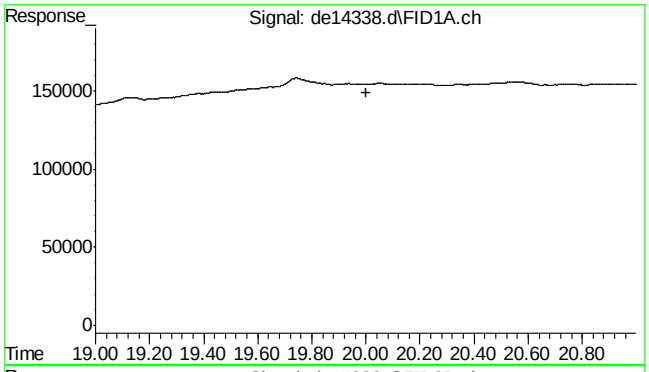
R.T.: 15.383 min
Delta R.T.: 0.007 min
Response: 4856314
Conc: 53.13 µg/ml



#21 benzo(ghi)perylene

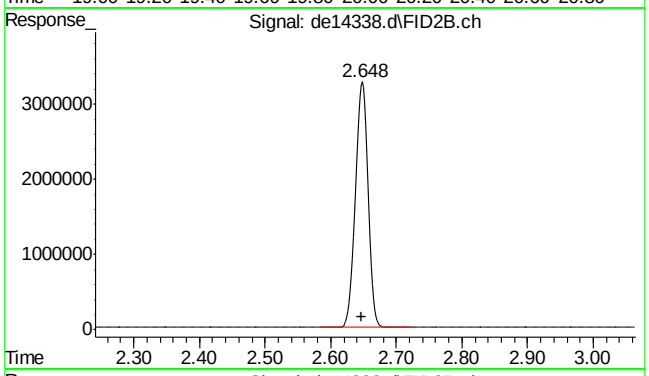
R.T.: 15.567 min
Delta R.T.: 0.007 min
Response: 4956003
Conc: 53.80 µg/ml

SGS ACCUTEST MC45816A



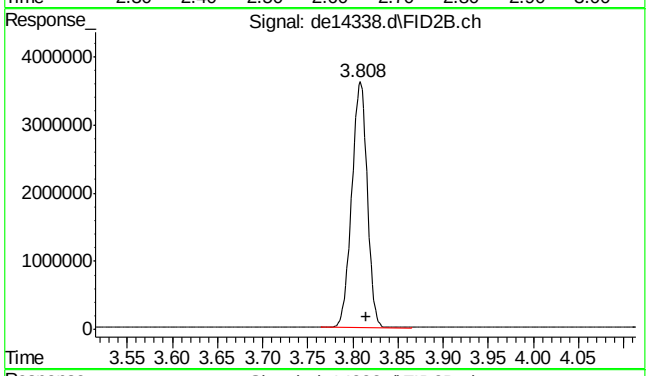
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



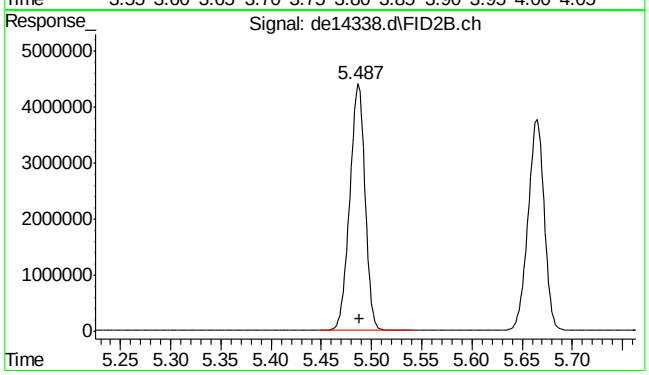
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4268381
Conc: 57.78 µg/ml m



#26 c-10

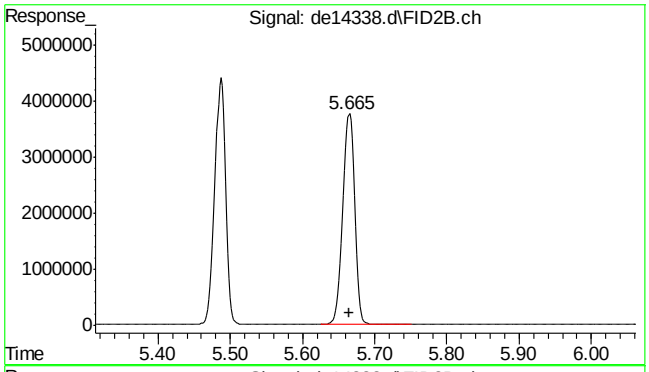
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4323296
Conc: 58.52 µg/ml



#27 naphthalene #2

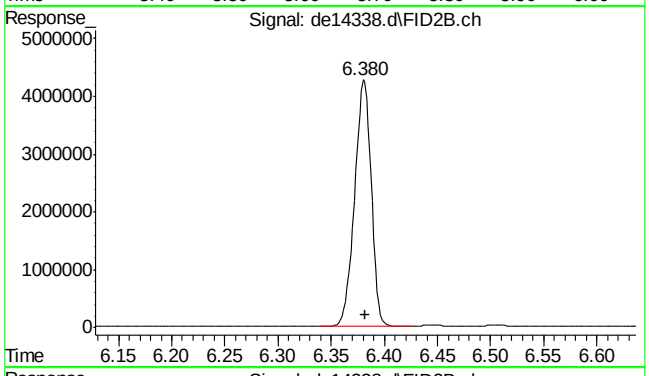
R.T.: 5.487 min
Delta R.T.: -0.002 min
Response: 4607415
Conc: 57.68 µg/ml

SGS ACCUTEST MC45816A



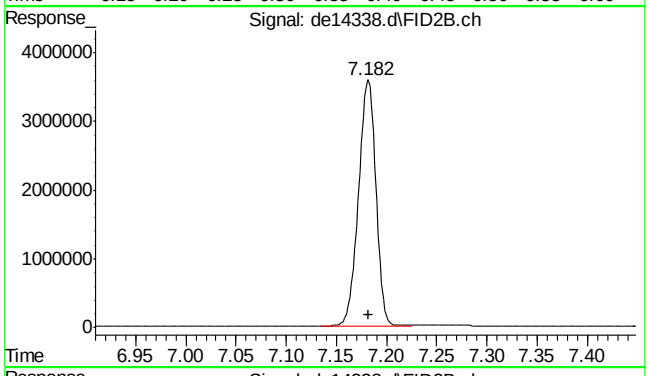
#28 c-12

R.T.: 5.665 min
Delta R.T.: 0.000 min
Response: 4295972
Conc: 58.15 µg/ml



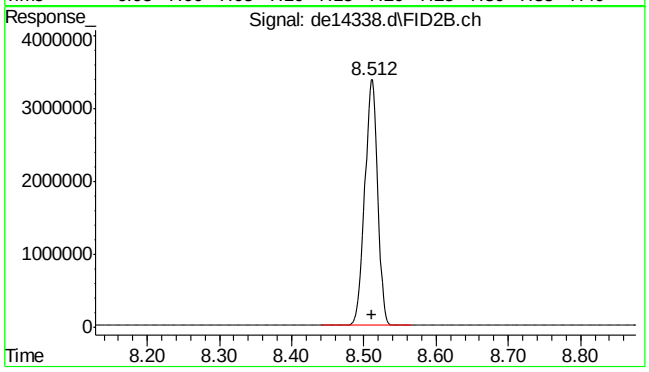
#29 2-methylnaphthalene #2

R.T.: 6.380 min
Delta R.T.: -0.002 min
Response: 4606302
Conc: 57.17 µg/ml



#30 c-14

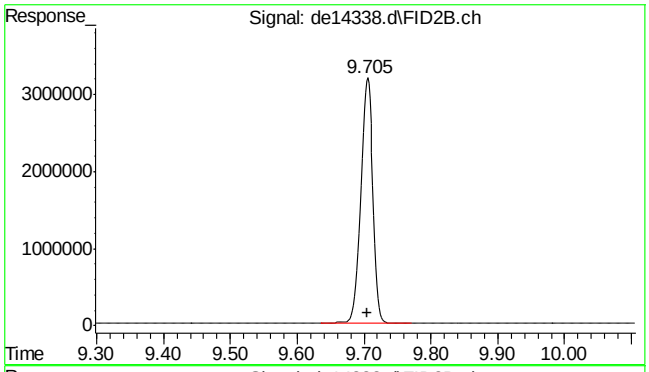
R.T.: 7.182 min
Delta R.T.: 0.000 min
Response: 4258329
Conc: 57.64 µg/ml



#31 c-16

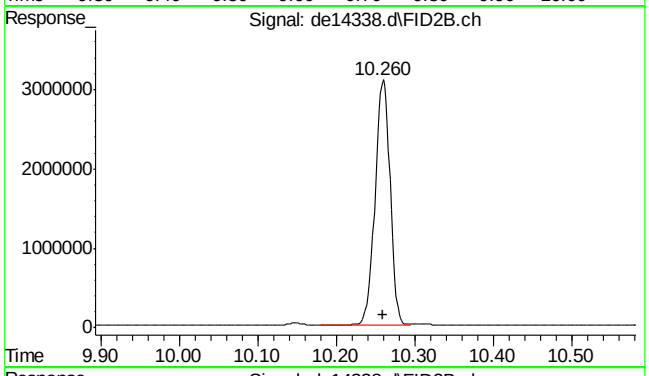
R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 4188273
Conc: 56.70 µg/ml

SGS ACCUTEST MC45816A



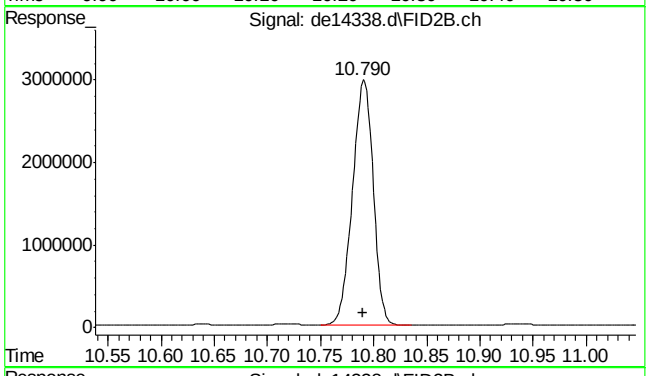
#32 c-18

R.T.: 9.705 min
Delta R.T.: 0.000 min
Response: 4158222
Conc: 56.29 µg/ml



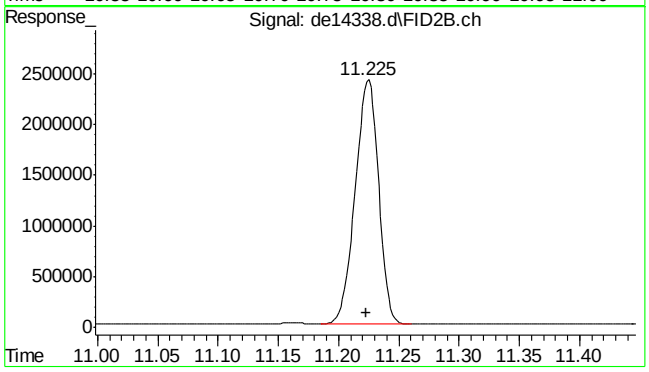
#33 c-19

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 4120582
Conc: 61.68 µg/ml



#34 c-20

R.T.: 10.790 min
Delta R.T.: 0.000 min
Response: 4033457
Conc: 60.38 µg/ml



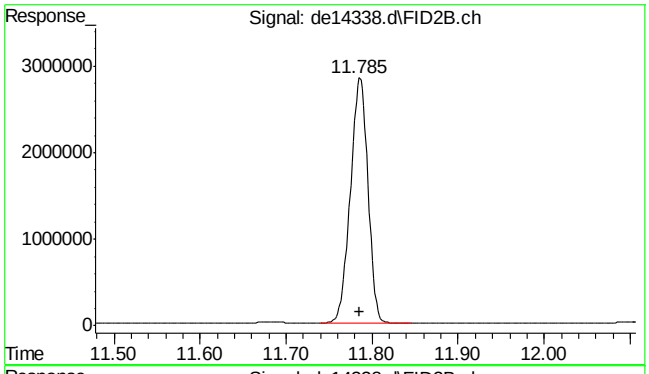
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: 0.002 min
Response: 3261249
Conc: 57.64 µg/ml

9.5.11

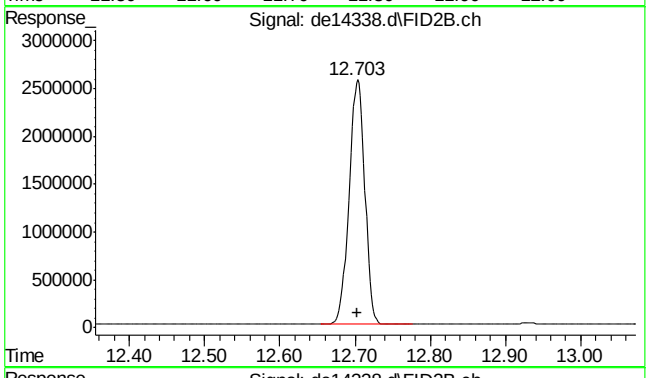
9

SGS ACCUTEST MC45816A



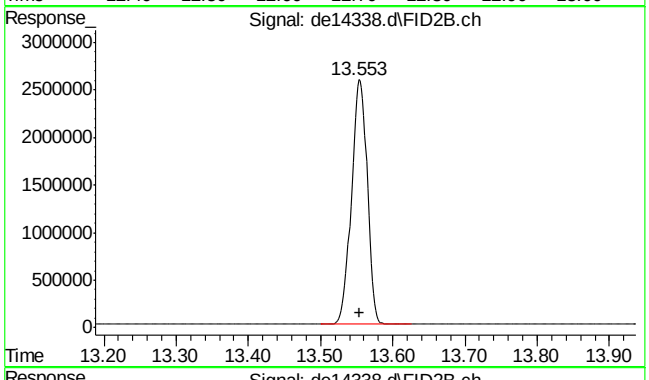
#36 c-22

R.T.: 11.785 min
Delta R.T.: 0.000 min
Response: 3988893
Conc: 59.71 µg/ml



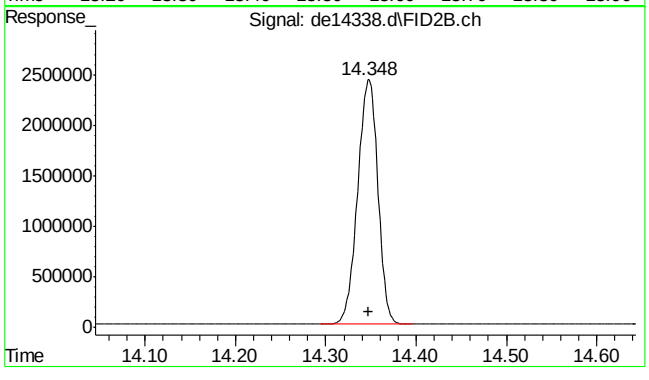
#37 c-24

R.T.: 12.703 min
Delta R.T.: 0.000 min
Response: 3706758
Conc: 55.49 µg/ml



#38 c-26

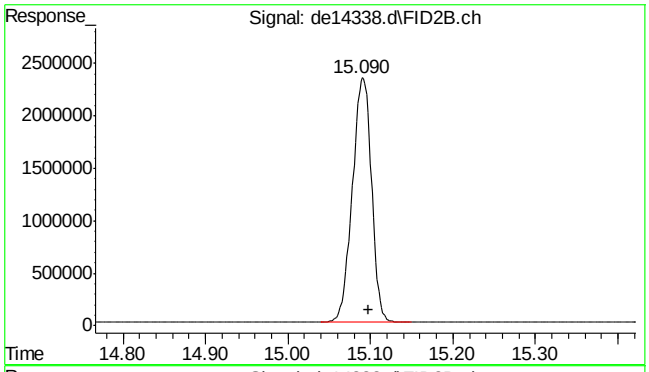
R.T.: 13.553 min
Delta R.T.: 0.000 min
Response: 3919283
Conc: 58.67 µg/ml



#39 c-28

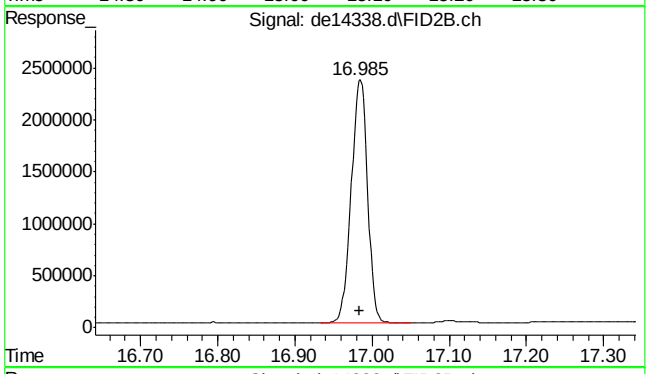
R.T.: 14.348 min
Delta R.T.: 0.002 min
Response: 3771235
Conc: 56.45 µg/ml

SGS ACCUTEST MC45816A



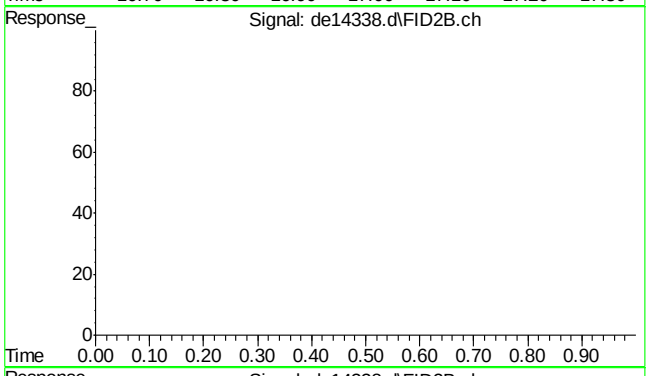
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3727400
Conc: 55.79 µg/ml m



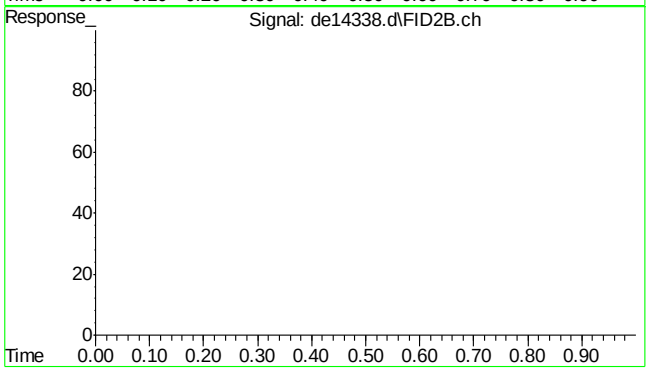
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3422110
Conc: 51.22 µg/ml m



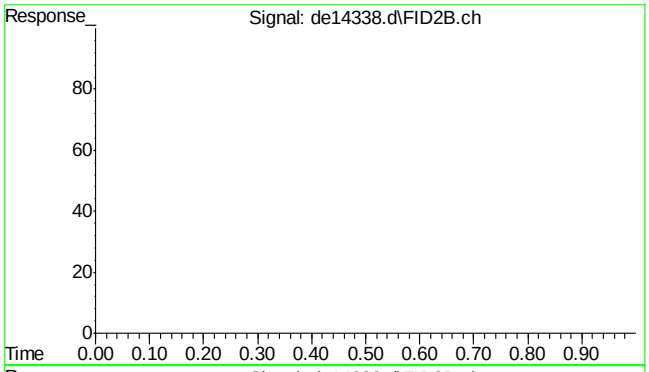
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



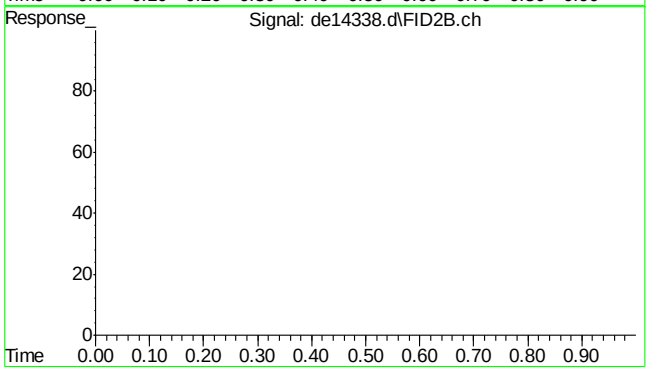
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.11

9

SGS ACCUTEST MC45816A

Accutest Laboratories of New England, Inc.

Instrument: GC 32 (GCDE)

GC Analysis Log - Extractables

Run Date: 2-4-16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc
	see comments	

Column Information: Front : RTX-5 Alternate:
Rear : RTX-5 Alternate:

Sequence File: ~~(DE160205EPH.S)~~ DE160204EPH.S

Quantitation Methods: ~~(10)~~ TAR ~~(EPH160205W.M)~~ EPH160204W.M

Instrument Run Batches: GDE ~~(735)~~ TAR 735

Data Acquisition Methods: EPH DCAW Inj. Vol: 1ml
Inj. Vol:

Date of ICAL: ICAL Verified Sample positions verified against sequence:

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments	
TAR ~~(1+1)~~ 1/2	DE13190	Primo	N/A	EPH	N/A	N/A	AI:	ARO
1/2	91	IC735-1					G518066	G518059
3/4	92	-2					65	58
5/6	93	-5					64	57
7/8	94	-20					63	56
9/10	95	ICC735-50					62	55
11/12	96	IC735-100					61	54
13/14	97	-200					60	53
15/16	DE 13198	ICV735-50					ICV: GOOD	ARO G518052 AI: G518009

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

Review:

GC011-01
Date: 02/26/07

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de13198.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	icv735-50

Name	Amount	Response
c-9	49.68	3669865
c-10	49.84	3682081
c-12	49.07	3625160
c-14	48.80	3605226
c-16	47.90	3538485
c-18	47.31	3494684
c-19	51.26	3424371
c-20	50.76	3390870
c-22	49.93	3335369
c-24	49.04	3275936
c-26	48.67	3251556
c-28	47.96	3204302
c-30	47.06	3143578
c-36	43.91	2933493

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	72052	73872	**2.50**	**In Criteria**
C19-C36	64899	66806	**2.90**	**In Criteria**

c28/c20 Percentage: 94.50

1-chlorooctadecane	52.48	2968966
naphthalene #2	50.53	4035939
2-methylnaphthalene	49.08	3954192

BMAEPH - Aliphatic Calibration

Instrument Name GCDE
Operator thomasa

	de13197.d	de13196.d	de13195.d	de13194.d	de13193.d	de13192.d	de13191.d
	200	100	50	20	5	2	1
c-9	13093571	7080731	3541836	1587594	396890	157422	76082
c-10	13149397	7121293	3570776	1597831	401630	158649	77300
c-12	12963152	7047399	3545795	1581613	398273	157764	76748
c-14	12790598	6951061	3516096	1563771	396429	157636	77909
c-16	12583573	6811631	3450251	1537180	389860	156773	78733
c-18	12493898	6758324	3414559	1515877	383929	154646	77956
Total Mass	1200	600	300	120	30	12	6
Total Area	77074189	41770439	21039313	9383866	2367011	942890	464728
RF	64228	69617	70131	78199	78900	78574	77455
Average RF	73872						
% RSD	7.31	**<25%**					
C9 -C18	14774429	**Inserted into 200 ppm level**					
c-19	12406524	6704725	3383527	1500139	381074	151034	78108
c-20	12189358	6591283	3319667	1468089	369620	148378	75638
c-22	12115679	6550653	3288115	1451343	364434	146070	73192
c-24	11324691	6102937	3065680	1351453	339349	135579	69851
c-26	12045195	6486501	3260990	1435543	359561	142920	72850
c-28	11646376	6270223	3155644	1385739	345810	137233	69399
c-30	11593413	6235140	3152151	1377048	345750	139197	74594
c-36	10854654	5572797	2883025	1222680	300895	119416	60516
Total Mass	1600	800	400	160	40	16	8
Total Area	94175890	50514259	25508799	11192034	2806493	1119827	574148
RF	58860	63143	63772	69950	70162	69989	71769
Aerage RF	66806						
% RSD	6.73	**<25%**					
C19-C36	13361285	**Inserted into 200 ppm level**					

Operator thomasa
Instrument Na GCDE

BMAEPH - Aromatic Calibration

	de13197.d 200	de13196.d 100	de13195.d 50	de13194.d 20	de13193.d 5	de13192.d 2	de13191.d 1
naphthalene	19450620	10142634	5345223	2162719	522941	205575	100885
2-methylnaphthalene	19131536	9997868	5287222	2136209	518620	205018	102950
acenaphthylene	18686177	9776029	5189849	2106441	513706	202426	99947
acenaphthene	19311298	10095451	5354326	2170607	524765	207471	101818
fluorene	18917157	9889893	5242546	2130652	515691	204542	100695
phenanthrene	18899419	9875264	5223164	2129143	514273	207031	101800
anthracene	17945874	9378790	4970359	2038508	492058	199105	96242
fluoranthene	18457513	9629565	5079973	2077039	501463	203479	103521
pyrene	18932497	9876553	5123787	2089957	505877	206224	105548
benzo(a)anthracene	17872955	9324427	4883350	2002764	484563	197822	100487
chrysene	18069681	9386529	4951740	2022589	488834	197927	100279
benzo(B)fluoranthene	18893122	9460698	4980192	2094779	499942	197572	100827
benzo(k)fluoranthene	16859064	9345183	4922694	1953249	474469	193855	95833
benzo(a)pyrene	17319408	8964794	4724847	1927552	464216	184685	94743
indeno(1,2,3-cd)pyrene	18670540	9240715	4854725	1948257	472235	186820	94483
dibenzo(ah)anthracene	16610466	8726656	4685536	1933263	466623	185980	92785
benzo(ghi)perylene	17523714	8869696	4705124	1916075	463653	184915	93453
Total Mass (Targets)	3400	1700	850	340	85	34	17
Total Area (Targets)	311551041	161980745	85524657	34839803	8423929	3370447	1686296
RF	91633	95283	100617	102470	99105	99131	99194
Average RF	98205						

% RSD **3.41** **<25%**
C11-C22 Aromatics **19640926** **Insert into 200ppm level**

SGS Accutest, Inc.

Page 1 of 2

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5-31-16

Analyst Signature: pg 1 of 2

Standard Data

Lot #	Description	Conc
G518062	Ali CCV	50 ng/mL
L055	Aro CCV	↓

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: 160531.s
Quantitation Methods: EPH 160531w.m
Instrument Run Batches: GDE 801
Data Acquisition Methods: EPH DVAL.m Inj. Vol: 1 ml
Inj. Vol:

Date of ICAL: 2-14-16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/143	DE14316	CC735-50	OP47572	BNAEPH	S	NA	
1/2	17	OP47572-MB					
3/4	18	-BS					
5/6	19	-BSD					
7/8	20	MC45962-1					
9/10	21	-3					
11/12	22	-4					
13/14	23	MC45816-2					
15/16	24	-6					
17/18	25	-7					
19/20	26	OP47572-MS					
141/142	27	CC735-50					
21/22	28	OP47572-MSD					
23/24	29	MC45857-2					
25/26	30	-3					
27/28	31	OP47552-BS	OP47552		S		
29/30	32	-BSD					
31/32	33	-MB					
33/34	34	FA33755-1R					
35/36	35	-4R					
37/38	36	OP47552-MS					
39/40	37	-MSD					
141/142	38	CC735-50					
41/42	39	MC45856-1					
43/44	40	-2					
45/46	41	-3					
47/48	42	-4					

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent:_____ Lot#:_____

GC014-01
Date: 9/15/10

Review:_____

SGS ACCUTEST MC45816A

SGS Accutest, Inc.

Page 2 of 2

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5·31·16

Analyst Signature: pg 2 of 2

Standard Data

Lot #	Description	Conc

SEE PAGE 1

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File:
Quantitation Methods:
Instrument Run Batches:
Data Acquisition Methods: Inj. Vol:
Inj. Vol:

SEE PAGE 1

Date of ICAL: ICAL Verified Sample positions verified against sequence:

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
49/50	DE14343	MC45838-2	OP47552	BMAEDH	S	NA	
51/52	44	OP47527-BS	OP47527		W		
53/54	45	-BSD					
55/56	46	-MB					
57/58	47	MC45882-1					
59/60	48	MC45884-8					
141/142	49	4735-50					
61/62	50	MC45884-9					
63/64	51	-10					
65/66	52	-11					
67/68	53	-12					
69/70	54	-13					
71/72	55	-15					
73/74	56	-16					
75/76	57	-17					
77/78	58	-18					
79/80	59	-19					
143/144	60	4735-50					
81/82	61	MC45884-26					
143/144	62	4735-50					

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: Lot#:

GC014-01
Date: 9/15/10

Review:

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14316.d
Operator	andrip
Instrument Name	GCDE
Sample Name	cc735-50,gde801

Name	Amount	Response
c-9	58.45	4317501
c-10	58.97	4355928
c-12	58.69	4335398
c-14	58.65	4332297
c-16	58.38	4312504
c-18	58.57	4326901
c-19	64.29	4294885
c-20	63.04	4211297
c-22	62.64	4185011
c-24	58.59	3914486
c-26	62.22	4156575
c-28	60.05	4011808
c-30	59.82	3996119
c-36	57.29	3827225
1-chlorooctadecane	60.05	3397446
naphthalene #2	58.21	4649406
2-methylnaphthalene	57.76	4653715

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	86602	73872	**15.87**	**In Criteria**
C19-C36	81494	66806	**19.81**	**In Criteria**
c28/c20 Percentage:			95.26	

9.6.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14327.d
Operator	andrip
Instrument Name	GCDE
Sample Name	cc735-50,gde801

Name	Amount	Response
c-9	57.69	4261955
c-10	58.25	4303053
c-12	57.74	4265197
c-14	57.20	4225783
c-16	56.28	4157256
c-18	55.86	4126705
c-19	61.15	4085038
c-20	59.93	4003739
c-22	59.38	3967204
c-24	55.11	3681724
c-26	58.39	3900702
c-28	56.14	3750551
c-30	55.72	3722691
c-36	51.11	3414648
1-chlorooctadecane	57.12	3231753
naphthalene #2	57.37	4582398
2-methylnaphthalene	56.79	4575666

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	84466	73872	**13.38**	**In Criteria**
C19-C36	76316	66806	**13.29**	**In Criteria**
c28/c20 Percentage:			93.68	

9.6.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14338.d
Operator	andrip
Instrument Name	GCDE
Sample Name	cc735-50,gde801

Name	Amount	Response
c-9	57.78	4268381
c-10	58.52	4323296
c-12	58.15	4295972
c-14	57.64	4258329
c-16	56.70	4188273
c-18	56.29	4158222
c-19	61.68	4120582
c-20	60.38	4033457
c-22	59.71	3988893
c-24	55.49	3706758
c-26	58.67	3919283
c-28	56.45	3771235
c-30	55.79	3727400
c-36	51.22	3422110

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	84975	73872	**13.98**	**In Criteria**
C19-C36	76724	66806	**13.82**	**In Criteria**
c28/c20 Percentage:			93.50	

1-chlorooctadecane	57.64	3261249
naphthalene #2	57.68	4607415
2-methylnaphthalene	57.17	4606302

9.6.2

9

SGS ACCUTEST MC45816A

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14349.d
Operator	andrip
Instrument Name	GCDE
Sample Name	cc735-50,gde801

Name	Amount	Response
c-9	56.64	4184438
c-10	57.65	4258427
c-12	57.60	4255298
c-14	57.34	4235802
c-16	56.64	4184343
c-18	56.55	4177706
c-19	61.87	4133514
c-20	60.67	4053062
c-22	60.22	4023012
c-24	56.13	3749827
c-26	59.58	3980419
c-28	57.37	3832353
c-30	56.76	3792026
c-36	52.08	3479178
1-chlorooctadecane	58.46	3307263
naphthalene #2	56.99	4551708
2-methylnaphthalene	56.57	4557256

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	84320	73872	**13.21**	**In Criteria**
C19-C36	77608	66806	**14.96**	**In Criteria**

c28/c20 Percentage: 94.55

9.6.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14360.d
Operator	andrip
Instrument Name	GCDE
Sample Name	cc735-50,gde801

Name	Amount	Response		Continuing Avg. RF	Initial Avg. RF	%Diff	
c-9	58.51	4321983					
c-10	59.91	4425922					
c-12	59.94	4428200	**C9-C18**	87832	73872	**17.27**	**In Criteria**
c-14	59.63	4405307					
c-16	59.26	4378021					
c-18	59.43	4390306					
c-19	65.29	4361823	**C19-C36**	78777	66806	**16.45**	**In Criteria**
c-20	64.19	4288392					
c-22	63.97	4273671					
c-24	59.83	3996698		c28/c20 Percentage:		95.59	
c-26	63.67	4253452					
c-28	61.36	4099266					
c-30	60.07	4012770					
c-36	33.30	2224863					

1-chlorooctadecane	61.38	3472502
naphthalene #2	59.40	4744616
2-methylnaphthalene	59.01	4754211

9.6.2

9

SGS ACCUTEST MC45816A

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14362.d
Operator	andrip
Instrument Name	GCDE
Sample Name	ecc735-50,gde801

Name	Amount	Response
c-9	60.21	4447961
c-10	61.28	4527254
c-12	61.21	4521714
c-14	60.77	4489456
c-16	60.01	4433199
c-18	59.78	4416058
c-19	65.50	4375749
c-20	64.18	4287863
c-22	63.77	4260022
c-24	59.32	3962696
c-26	62.86	4199260
c-28	60.35	4031592
c-30	58.88	3933892
c-36	32.10	2144285
1-chlorooctadecane	61.33	3469711
naphthalene #2	60.57	4837922
2-methylnaphthalene	60.12	4843624

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	89452	73872	**19.08**	**In Criteria**
C19-C36	77988	66806	**15.45**	**In Criteria**

c28/c20 Percentage: 94.02

9.6.2

9

BMAEPH - BS/BSD Report

Operator andrip
Instrument Name GCDE
Sample Name op47572-bs

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		13.54	50	54.15	
2-methylnaphthalene		13.42	50	53.69	
2-fluorobiphenyl	s	14.00	40	70.00	
acenaphthylene		14.01	50	56.03	
2-bromonaphthalene	s	12.86	40	64.30	
acenaphthene		16.07	50	64.26	
fluorene		14.70	50	58.81	
phenanthrene		14.79	50	59.15	
anthracene		17.70	50	70.81	
o-terphenyl	s	15.45	40	77.24	
fluoranthene		17.24	50	68.97	
pyrene		17.03	50	68.10	
benzo(a)anthracene		17.90	50	71.61	
chrysene		18.10	50	72.42	
benzo(B)fluoranthene		17.72	50	70.89	
benzo(k)fluoranthene		18.17	50	72.66	
benzo(a)pyrene		18.59	50	74.36	
indeno(1,2,3-cd)pyrene		18.28	50	73.12	
dibenzo(ah)anthracene		18.20	50	72.82	
benzo(ghi)perylene		18.55	50	74.22	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		13.50	50	54.00	
c-10		15.37	50	61.49	
c-12		16.38	50	65.50	
c-14		16.26	50	65.04	
c-16		16.63	50	66.51	
c-18		17.99	50	71.95	
c-19		20.16	50	80.64	
c-20		20.71	50	82.84	
1-chlorooctadecane	s	14.60	40	73.01	
c-22		20.84	50	83.36	
c-24		20.64	50	82.56	
c-26		20.13	50	80.53	
c-28		19.64	50	78.56	
c-30		19.06	50	76.23	
c-36		11.36	50	45.46	

Recovery C9-C18
64.08

Recovery C19-C36
76.27

naphthalene #2	0.14	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.07	1.04	0.53

BMAEPH - BS/BSD Report

Operator andrip
Instrument Name GCDE
Sample Name op47572-bsd

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		15.87	50	63.49	
2-methylnaphthalene		15.97	50	63.88	
2-fluorobiphenyl	s	16.21	40	81.03	
acenaphthylene		16.71	50	66.84	
2-bromonaphthalene	s	15.06	40	75.32	
acenaphthene		18.61	50	74.42	
fluorene		17.42	50	69.67	
phenanthrene		17.44	50	69.75	
anthracene		20.40	50	81.58	
o-terphenyl	s	17.63	40	88.13	
fluoranthene		20.28	50	81.12	
pyrene		20.13	50	80.51	
benzo(a)anthracene		21.24	50	84.98	
chrysene		21.46	50	85.86	
benzo(B)fluoranthene		20.91	50	83.64	
benzo(k)fluoranthene		21.78	50	87.13	
benzo(a)pyrene		22.05	50	88.20	
indeno(1,2,3-cd)pyrene		21.53	50	86.10	
dibenzo(ah)anthracene		22.01	50	88.06	
benzo(ghi)perylene		22.13	50	88.52	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.19	50	60.76	
c-10		17.61	50	70.45	
c-12		18.62	50	74.47	
c-14		18.73	50	74.91	
c-16		19.01	50	76.03	
c-18		20.50	50	82.01	
c-19		22.97	50	91.89	
c-20		23.66	50	94.65	
1-chlorooctadecane	s	15.20	40	75.99	
c-22		24.13	50	96.53	
c-24		23.87	50	95.46	
c-26		23.27	50	93.08	
c-28		22.91	50	91.65	
c-30		22.74	50	90.98	
c-36		18.40	50	73.60	

Recovery C9-C18
73.11

Recovery C19-C36
90.98

naphthalene #2	0.08	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.07	0.48	0.43

BMAEPH - BS/BSD Report

Operator andrip
Instrument Name GCDE
Sample Name op47552-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		15.94	50	63.77	
2-methylnaphthalene		16.16	50	64.64	
2-fluorobiphenyl	s	17.79	40	88.94	
acenaphthylene		17.18	50	68.71	
2-bromonaphthalene	s	16.54	40	82.70	
acenaphthene		18.88	50	75.52	
fluorene		17.79	50	71.18	
phenanthrene		17.75	50	70.98	
anthracene		20.49	50	81.98	
o-terphenyl	s	18.18	40	90.91	
fluoranthene		19.68	50	78.71	
pyrene		19.74	50	78.94	
benzo(a)anthracene		19.90	50	79.60	
chrysene		20.29	50	81.16	
benzo(B)fluoranthene		19.23	50	76.93	
benzo(k)fluoranthene		20.78	50	83.10	
benzo(a)pyrene		20.66	50	82.64	
indeno(1,2,3-cd)pyrene		20.13	50	80.54	
dibenzo(ah)anthracene		20.46	50	81.84	
benzo(ghi)perylene		20.60	50	82.42	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.03	50	60.13	
c-10		16.90	50	67.59	
c-12		17.85	50	71.39	
c-14		18.24	50	72.97	
c-16		18.56	50	74.22	
c-18		19.58	50	78.31	
c-19		21.56	50	86.25	
c-20		21.77	50	87.09	
1-chlorooctadecane	s	18.28	40	91.41	
c-22		21.87	50	87.46	
c-24		21.46	50	85.84	
c-26		20.93	50	83.72	
c-28		20.54	50	82.16	
c-30		19.84	50	79.36	
c-36		14.88	50	59.51	

Recovery C9-C18
70.77

Recovery C19-C36
81.42

naphthalene #2	0.07	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.06	0.47	0.36

BMAEPH - BS/BSD Report

Operator andrip
Instrument Name GCDE
Sample Name op47552-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		16.16	50	64.64	
2-methylnaphthalene		16.41	50	65.64	
2-fluorobiphenyl	s	16.16	40	80.78	
acenaphthylene		17.32	50	69.30	
2-bromonaphthalene	s	15.23	40	76.14	
acenaphthene		18.94	50	75.76	
fluorene		18.02	50	72.07	
phenanthrene		17.87	50	71.50	
anthracene		20.38	50	81.52	
o-terphenyl	s	17.76	40	88.78	
fluoranthene		19.69	50	78.78	
pyrene		19.68	50	78.74	
benzo(a)anthracene		20.22	50	80.89	
chrysene		20.56	50	82.26	
benzo(B)fluoranthene		21.57	50	86.29	
benzo(k)fluoranthene		19.93	50	79.72	
benzo(a)pyrene		21.04	50	84.16	
indeno(1,2,3-cd)pyrene		20.61	50	82.42	
dibenzo(ah)anthracene		20.78	50	83.13	
benzo(ghi)perylene		21.01	50	84.03	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.91	50	63.64	
c-10		17.69	50	70.77	
c-12		18.50	50	74.00	
c-14		18.69	50	74.76	
c-16		18.64	50	74.55	
c-18		19.22	50	76.90	
c-19		21.14	50	84.56	
c-20		21.48	50	85.90	
1-chlorooctadecane	s	14.09	40	70.46	
c-22		21.87	50	87.49	
c-24		21.61	50	86.44	
c-26		21.10	50	84.39	
c-28		20.77	50	83.09	
c-30		20.53	50	82.10	
c-36		18.43	50	73.72	

Recovery C9-C18
72.44

Recovery C19-C36
83.46

naphthalene #2	0.05	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.06	0.33	0.36

BMAEPH - BS/BSD Report

Operator andrip
Instrument Name GCDE
Sample Name op47527-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		14.23	50	56.91	
2-methylnaphthalene		14.49	50	57.95	
2-fluorobiphenyl	s	15.36	40	76.78	
acenaphthylene		15.05	50	60.18	
2-bromonaphthalene	s	14.11	40	70.56	
acenaphthene		15.89	50	63.55	
fluorene		15.71	50	62.86	
phenanthrene		15.79	50	63.15	
anthracene		18.11	50	72.42	
o-terphenyl	s	16.36	40	81.82	
fluoranthene		18.25	50	73.02	
pyrene		18.07	50	72.29	
benzo(a)anthracene		19.25	50	76.98	
chrysene		19.19	50	76.76	
benzo(B)fluoranthene		19.86	50	79.43	
benzo(k)fluoranthene		18.90	50	75.60	
benzo(a)pyrene		19.97	50	79.89	
indeno(1,2,3-cd)pyrene		19.62	50	78.49	
dibenzo(ah)anthracene		20.26	50	81.06	
benzo(ghi)perylene		20.24	50	80.98	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		14.91	50	59.65	
c-10		17.47	50	69.86	
c-12		18.63	50	74.51	
c-14		18.53	50	74.12	
c-16		18.63	50	74.54	
c-18		19.78	50	79.13	
c-19		22.42	50	89.69	
c-20		22.66	50	90.65	
1-chlorooctadecane	s	13.84	40	69.21	
c-22		22.93	50	91.70	
c-24		22.65	50	90.60	
c-26		22.13	50	88.52	
c-28		21.77	50	87.09	
c-30		21.29	50	85.15	
c-36		17.70	50	70.82	

Recovery C9-C18
71.97

Recovery C19-C36
86.78

naphthalene #2	0.07	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.07	0.47	0.45

BMAEPH - BS/BSD Report

Operator andrip
Instrument Name GCDE
Sample Name op47527-bsd

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		11.81	50	47.24	
2-methylnaphthalene		11.83	50	47.32	
2-fluorobiphenyl	s	15.53	40	77.63	
acenaphthylene		12.26	50	49.05	
2-bromonaphthalene	s	14.37	40	71.86	
acenaphthene		13.89	50	55.58	
fluorene		12.64	50	50.56	
phenanthrene		12.47	50	49.90	
anthracene		15.00	50	60.01	
o-terphenyl	s	12.63	40	63.14	
fluoranthene		14.51	50	58.04	
pyrene		14.57	50	58.27	
benzo(a)anthracene		15.02	50	60.08	
chrysene		15.51	50	62.06	
benzo(B)fluoranthene		15.50	50	62.01	
benzo(k)fluoranthene		15.07	50	60.27	
benzo(a)pyrene		15.76	50	63.02	
indeno(1,2,3-cd)pyrene		15.28	50	61.12	
dibenzo(ah)anthracene		15.77	50	63.08	
benzo(ghi)perylene		15.82	50	63.30	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		10.07	50	40.28	
c-10		11.79	50	47.16	
c-12		12.57	50	50.27	
c-14		12.43	50	49.72	
c-16		12.45	50	49.81	
c-18		13.20	50	52.79	
c-19		14.99	50	59.95	
c-20		15.16	50	60.65	
1-chlorooctadecane	s	11.57	40	57.83	
c-22		15.37	50	61.47	
c-24		15.19	50	60.76	
c-26		14.87	50	59.49	
c-28		14.61	50	58.44	
c-30		14.44	50	57.74	
c-36		12.40	50	49.61	

Recovery C9-C18
48.34

Recovery C19-C36
58.52

naphthalene #2	0.08	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.06	0.68	0.53

SGS ACCUTEST

Extraction Log - Soils

Analysis Method: BMAEPH, BMAEPHR

Extraction Method (check one)
Microwave SW3546 ✓
Microwave ID 1☐ 3☑
Waste Dilution SW3580A _____

ASE SW 3545A _____
Sonication SW3550C* _____
Soxhlet SW3540C _____
MSE EPA 3570 _____

BATCH # OP47572	INITIALS	DATE	TIME
Extacted by:	MC	5/20/16	13:30
Spike Witness:	JM	↓	↓
Concentrated by:	PA/IA	05/22/16	
Fractionated by:	↓	Volume (ml):	
Received by:	IAV	5/31/16	8:00

Tray # GC-34/E-018

Spike ID	Lot #	Conc. (ug/ml)	Amt. (ul)
EPH	7653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Amt. (ul)
EPH	7483	2000	20
Fluor	P07725	40	1ml

Supervisor Approval:

SOXHLET only
Start date | Start Time
End date | End Time

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

	Sample #	Sample Bottle #	Sample Wet Wt. (gram)	Final Extract Volume (mL)	Comments
	OP47572 MB	N/A	11.63	2.0	
	BS	↓	11.56	2.0	
	BSD	↓	11.31	↓	
	MC45816-2 MS	4	11.16		
	MSD	4	11.21	↓	
			11.60	2.0	
1	MC45816-2	4	~~11.24~~ 5/[illegible]		
2	-6	1	11.31	2.0	
3	-7	1	11.47	↓	
4	MC45962-1	1	11.33	↓	F.V.
5	-2	1	11.71	~~[illegible] 2.0~~	~~* (Cancelled)~~ 05/20/16 2.0
6	-3	1	11.33	2.0	* Cancelled *
7	-4	1	11.18	↓	
8	MC45857-2	2	11.13		
9	MC45857-3	2	11.10	↓	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: * cancelled per client. 05/23/16 (MC45962-3)

Equipment/ Range	ID	Temp (°C)	Press/Flow
Ultrasonic bath			
Buchi (55-71 °C)	0352	75/80	
Waterbath Temp °C			
NEVAP (32-38 °C)			
Chiller			
Balance ID	Acc 11	N/A	N/A
*Sonnication Horn	ID	Tuned?	Initials
Misonix XL 2020			

SOLVENT	LOT #	BRAND
1:1 HEXANE/		Fisher
ACETONE		Fisher
1:1 METH CHLOR/	167108	Fisher
ACETONE	158570	Fisher
HEXANE Only	162040	Fisher
ETHER		Fisher
ACETONITRILE		Fisher
ACETONE		Fisher
DCM		Fisher

REAGENT	LOT #	BRAND
SPE MFG	3062895	Restek
SILICA GEL		
SODIUM SULFATE	D-021	FISHER
FILTER PAPER		
COPPER		
FLORISIL		
SULFURIC ACID		
HYDROMATRIX		
SAND		
0.45um Teflon Filter		
FILTERED BY	Init./Date:	

SGS ACCUTEST - MARLBOROUGH
Form: OP017-03
Rev Date: 2/23/16

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: MC45816A
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: MC45816-2 **Analyzed:** 11-MAY-16 by EL **Method:** SM 2540G-97 MOD
ClientID: RA-6 (6-7)

Wet Weight (Total)	27.592	g
Tare Weight	21.069	g
Dry Weight (Total)	25.714	g
Solids, Percent	71.2	%

Sample: MC45816-6 **Analyzed:** 12-MAY-16 by BF **Method:** SM 2540G-97 MOD
ClientID: RA-5 (5.5-6.5)

Wet Weight (Total)	30.146	g
Tare Weight	18.381	g
Dry Weight (Total)	27.979	g
Solids, Percent	81.6	%

Sample: MC45816-7 **Analyzed:** 12-MAY-16 by BF **Method:** SM 2540G-97 MOD
ClientID: RA-5 (9-10)

Wet Weight (Total)	37.89	g
Tare Weight	22.693	g
Dry Weight (Total)	35.108	g
Solids, Percent	81.7	%