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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: MC45538

Sampling Dates: 04/22/16 - 04/25/16

Report to:

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2700 Westchester Avenue
Purchase, NY 00677
roreilly@amaiconsult.com; ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **890**

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

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SGS Accutest

Sample Summary

Anderson Mulholland and Assoc.

Job No: MC45538

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC45538-1	04/22/16	14:00	TT	04/26/16	AQ	Equipment Blank	BPEB-6
MC45538-2	04/25/16	10:45	TT	04/26/16	SO	Soil	S-39(11-12)

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**	MC45538
Site:	BMSMC, Building 5 Area, Puerto Rico	**Report Date**	5/10/2016 1:14:07 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 04/22/2016 and 04/25/2016 and were received at SGS Accutest New England on 04/26/2016 properly preserved, at 1.9 Deg. C and intact. These Samples received a job number of MC45538. 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:** GAB5156

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Calibration check standard GAB5157-CC5058 is not associated with this job.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP47246

- 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) MC45147-31MS, MC45147-31MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP47259

- 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) MC45503-2MS, MC45503-2MSD were used as the QC samples indicated.

Wet Chemistry By Method SM 2540G-97 MOD

Matrix: SO **Batch ID:** GN53686

- Sample(s) MC45538-2DUP 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(MC45538).

Summary of Hits

Job Number: MC45538
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 04/22/16 thru 04/25/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC45538-1	**BPEB-6**					
No hits reported in this sample.						
MC45538-2	**S-39(11-12)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-6		
Lab Sample ID:	MC45538-1	**Date Sampled:**	04/22/16
Matrix:	AQ - Equipment Blank	**Date Received:**	04/26/16
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE13984.D	1	04/29/16	TA	04/27/16	OP47246	GDE781
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	75	ug/l	
	C9-C18 Aliphatics	ND	110	75	ug/l	
	C19-C36 Aliphatics	ND	110	75	ug/l	
	C11-C22 Aromatics	ND	110	75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		40-140%
321-60-8	2-Fluorobiphenyl	75%		40-140%
3386-33-2	1-Chlorooctadecane	68%		40-140%
580-13-2	2-Bromonaphthalene	78%		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:	S-39(11-12)		
Lab Sample ID:	MC45538-2	**Date Sampled:**	04/25/16
Matrix:	SO - Soil	**Date Received:**	04/26/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	78.1
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB93882.D	1	04/27/16	DF	n/a	n/a	GAB5156
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	15.6 g	16.0 ml	100 ul
Run #2			

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	8000	4000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	8000	4000	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	8000	4000	ug/kg	
	C5- C8 Aliphatics	ND	8000	4000	ug/kg	
	C9- C12 Aliphatics	ND	8000	4000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	79%		70-130%
	2,3,4-Trifluorotoluene	84%		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:	S-39(11-12)		
Lab Sample ID:	MC45538-2	**Date Sampled:**	04/25/16
Matrix:	SO - Soil	**Date Received:**	04/26/16
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	78.1
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14047.D	1	05/09/16	TA	04/28/16	OP47259	GDE787
Run #2							

	Initial Weight	Final Volume
Run #1	12.0 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	21000	17000	ug/kg	
	C9-C18 Aliphatics	ND	11000	8600	ug/kg	
	C19-C36 Aliphatics	ND	11000	8600	ug/kg	
	C11-C22 Aromatics	ND	21000	17000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		40-140%
321-60-8	2-Fluorobiphenyl	88%		40-140%
580-13-2	2-Bromonaphthalene	90%		40-140%
3386-33-2	1-Chlorooctadecane	64%		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

SGS ACCUTEST – NE

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

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SGS Accutest Quote # 802591276665

Bottle Order Control # MC45538

SGS Accutest Job # ~~Get from NE~~

Client / Reporting Information

Company Name: Anderson Mulholland Ass. Inc.
Street Address: 2700 Westchester
City / State / Zip: Purchase NY
Project Contact / E-mail: Terry Taylor
Phone # / Fax #: 914-251-0400
Sampler(s) Name(s) / Phone #: N. Rivera, T. Taylor, D. Lindstrand, R. O'Reilly

Project Information

Project Name: BMS Release Assessment
Street:
City: Humacao PR
Project #:
Client PO#:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

VMAVPH
BMAEPHR

Matrix Codes

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

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	Bisulfate	VMAVPH	BMAEPHR	LAB USE ONLY
1	BPEB-6		4/22/16	1400	TT	EB	2	2										X	
2	S-39 (11-12)		4/25/16	1045	TT	SO	5					2			3		X	X	
																			~~ACR~~
																			7A
																			10KR

Turnaround Time (Business days)

- [X] Std. 10 Business Days For Soil
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [X] 1 Day *EMERGENCY* For Aqueous

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

RUSH!

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

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

Comments / Special Instructions

INITIAL ASESSMENT WM

LABEL VERIFICATION WM

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	[signature] 4/25	4/25/16 1500	Fed EX	FY	4-26-16 935	[signature]
2						
3						
4						
5						

Custody Seal # 267 [ ] Intact [ ] Not intact Preserved where applicable [ ] On Ice [ ] Cooler Temp. 1.7°C

MC45538: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: MC45538 **Client:** ANDERSON MULHOLLAND **Project:** HUMACAO

Date / Time Received: 4/26/2016 9:25:00 AM **Delivery Method:** FX **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.9/1.9);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Thermometer ID:	IRGUN1;	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☐	☑

Comments

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC45538

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC45538-1	Collected: 22-APR-16 14:00 By: TT		Received: 26-APR-16 By: BA			
BPEB-6						
MC45538-1	MADEP EPH REV 1.1	29-APR-16 15:44	TA	27-APR-16	AJ	BMAEPHR
MC45538-2	Collected: 25-APR-16 10:45 By: TT		Received: 26-APR-16 By: BA			
S-39(11-12)						
MC45538-2	MADEP VPH REV 1.1	27-APR-16 14:26	DF			VMAVPHR
MC45538-2	SM 2540G-97 MOD	30-APR-16	MC			%SOL
MC45538-2	MADEP EPH REV 1.1	09-MAY-16 13:02	TA	28-APR-16	PA	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 04/26/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC45538-1.1	Walk In Ref #5	Michael Corron	04/27/16 07:59	Retrieve from Storage
MC45538-1.1	Michael Corron		04/30/16 15:53	Depleted
MC45538-2.2	Walk In Ref #5	Miranda Cardullo	04/30/16 10:52	Retrieve from Storage
MC45538-2.2	Miranda Cardullo	Walk In Ref #5	04/30/16 12:34	Return to Storage
MC45538-2.3	VOC Ref #10	Daniel Freedman	04/27/16 09:35	Retrieve from Storage
MC45538-2.3	Daniel Freedman	GCAB	04/27/16 09:35	Load on Instrument
MC45538-2.3	GCAB	Daniel Freedman	04/27/16 17:46	Unload from Instrument
MC45538-2.3	Daniel Freedman	VOC Ref #10	04/27/16 17:46	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: MC45538
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
GAB5156-MB	AB93878.D	1	04/27/16	DF	n/a	n/a	GAB5156

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

MC45538-2

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	73%	70-130%
	2,3,4-Trifluorotoluene	78%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45538
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
GAB5156-BSP	AB93879.D	1	04/27/16	DF	n/a	n/a	GAB5156
GAB5156-BSD	AB93880.D	1	04/27/16	DF	n/a	n/a	GAB5156

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

MC45538-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	7500	6540	87	6370	85	3	70-130/25
	C9- C12 Aliphatics (Unadj.)	7500	6760	90	6720	90	1	70-130/25
	C9- C10 Aromatics (Unadj.)	2500	2370	95	2320	93	2	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	95%	93%	70-130%
	2,3,4-Trifluorotoluene	99%	97%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC45538
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]
MC45538-2	AB93882.D	79	84
GAB5156-BSD	AB93880.D	93	97
GAB5156-BSP	AB93879.D	95	99
GAB5156-MB	AB93878.D	73	78

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: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GAB5156-CC5058	**Injection Date:**	04/27/16
Lab File ID:	AB93877.D	**Injection Time:**	11:15
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
GAB5157-MB	AB93878A.D	04/27/16	11:52	20.20	20.20
GAB5156-MB	AB93878.D	04/27/16	11:52	20.20	20.20
GAB5156-BSP	AB93879.D	04/27/16	12:31	20.19	20.20
GAB5157-BSP	AB93879A.D	04/27/16	12:31	20.19	20.20
GAB5157-BSD	AB93880A.D	04/27/16	13:09	20.19	20.20
GAB5156-BSD	AB93880.D	04/27/16	13:09	20.19	20.20
MC45538-2	AB93882.D	04/27/16	14:26	20.20	20.20
ZZZZZZ	AB93883.D	04/27/16	15:05	20.19	20.20
ZZZZZZ	AB93884.D	04/27/16	15:44	20.20	20.20
ZZZZZZ	AB93885.D	04/27/16	16:23	20.20	20.20
ZZZZZZ	AB93886.D	04/27/16	17:02	20.20	20.20

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

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

GC Surrogate Retention Time Summary

Job Number: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GAB5157-CC5058	**Injection Date:**	04/27/16
Lab File ID:	AB93877A.D	**Injection Time:**	11:15
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
GAB5157-MB	AB93878A.D	04/27/16	11:52	20.20	20.20
GAB5156-MB	AB93878.D	04/27/16	11:52	20.20	20.20
GAB5156-BSP	AB93879.D	04/27/16	12:31	20.19	20.20
GAB5157-BSP	AB93879A.D	04/27/16	12:31	20.19	20.20
GAB5157-BSD	AB93880A.D	04/27/16	13:09	20.19	20.20
GAB5156-BSD	AB93880.D	04/27/16	13:09	20.19	20.20
MC45538-2	AB93882.D	04/27/16	14:26	20.20	20.20
ZZZZZZ	AB93883.D	04/27/16	15:05	20.19	20.20
ZZZZZZ	AB93884.D	04/27/16	15:44	20.20	20.20
ZZZZZZ	AB93885.D	04/27/16	16:23	20.20	20.20
ZZZZZZ	AB93886.D	04/27/16	17:02	20.20	20.20

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: MC45538
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: MC45538
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: MC45538
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: MC45538
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: MC45538 **Sample:** GAB5156-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93877.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 11:15:01
Operator  : danielf
Sample    : cc5058-50
Misc      : gc26185,gab5156,,,,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: Apr 27 11:58:08 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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	208.785 E3	48.0#	52#	0.00
2	h	rt7/10	401.509	302.696 E3	24.6	75	0.00
3	h	rt10/13	401.509	409.019 E3	-1.9	102	0.00
4	s	fluorobenzene	440.139	421.283 E3	4.3	95	-0.01
6	s	2,3,4-trifluorotoluene	409.952	385.322 E3	6.0	95	-0.01
8	h	rt20/25	626.504	535.787 E3	14.5	86	0.00
10	h	decane	626.504	539.869 E3	13.8	86	0.00
11	h	butylcyclohexane	626.504	587.123 E3	6.3	94	0.00
Signal #2							
14		mtbe #2	504.452	486.867 E3	3.5	94	0.00
15		benzene #2	1.302	1.240 E6	4.8	88	-0.01
16	s	fluorobenzene #2	842.245	811.554 E3	3.6	91	-0.01
17		toluene #2	1143.283	1079.628 E3	5.6	89	-0.01
18	s	2,3,4-trifluorotoluene #2	466.878	426.294 E3	8.7	90	0.00
19		ethylbenzene #2	925.851	895.544 E3	3.3	90	0.00
20		m,p-xylene #2	1060.718	1080.932 E3	-1.9	90	0.00
21		o-xylene #2	934.140	901.325 E3	3.5	89	0.00
22	t	1,3,5-trimethylbenzene #2	1306.512	1167.340 E3	10.7	80	0.00
23		1,2,4-trimethylbenzene #2	957.036	908.440 E3	5.1	87	0.00
24		naphthalene #2	722.911	651.513 E3	9.9	86	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	909.796 E3	5.0	87	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: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5156-CC5058
Lab FileID: AB93877.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

ab160427vph.M Thu Apr 28 13:48:16 2016
```

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GAB5157-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93877A.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 11:15:01
Operator  : danielf
Sample    : cc5058-50
Misc      : gc26186,gab5157,,,,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: Apr 27 11:58:08 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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	208.785 E3	48.0#	52#	0.00
2 h	rt7/10	401.509	302.696 E3	24.6	75	0.00
3 h	rt10/13	401.509	409.019 E3	-1.9	102	0.00
4 s	fluorobenzene	440.139	421.283 E3	4.3	95	-0.01
6 s	2,3,4-trifluorotoluene	409.952	385.322 E3	6.0	95	-0.01
8 h	rt20/25	626.504	535.787 E3	14.5	86	0.00
10 h	decane	626.504	539.869 E3	13.8	86	0.00
11 h	butylcyclohexane	626.504	587.123 E3	6.3	94	0.00
Signal #2						
14	mtbe #2	504.452	486.867 E3	3.5	94	0.00
15	benzene #2	1.302	1.240 E6	4.8	88	-0.01
16 s	fluorobenzene #2	842.245	811.554 E3	3.6	91	-0.01
17	toluene #2	1143.283	1079.628 E3	5.6	89	-0.01
18 s	2,3,4-trifluorotoluene #2	466.878	426.294 E3	8.7	90	0.00
19	ethylbenzene #2	925.851	895.544 E3	3.3	90	0.00
20	m,p-xylene #2	1060.718	1080.932 E3	-1.9	90	0.00
21	o-xylene #2	934.140	901.325 E3	3.5	89	0.00
22 t	1,3,5-trimethylbenzene #2	1306.512	1167.340 E3	10.7	80	0.00
23	1,2,4-trimethylbenzene #2	957.036	908.440 E3	5.1	87	0.00
24	naphthalene #2	722.911	651.513 E3	9.9	86	0.00
25 h	c9-c10 arom as 1,2,4-tmb	958.045	909.796 E3	5.0	87	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: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5157-CC5058
Lab FileID: AB93877A.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

ab160427vph.M Thu Apr 28 13:48:18 2016
```

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GAB5157-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93887A.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93887a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 17:41:23
Operator  : danielf
Sample    : cc5058-50
Misc      : gc26186,gab5157,,,,5,1
ALS Vial  : 11 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 27 18:23:48 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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	197.483 E3	50.8#	49#	0.00
2 h	rt7/10	401.509	293.117 E3	27.0#	73#	0.00
3 h	rt10/13	401.509	424.425 E3	-5.7	106	0.00
4 s	fluorobenzene	440.139	417.172 E3	5.2	94	0.00
6 s	2,3,4-trifluorotoluene	409.952	382.504 E3	6.7	94	0.00
8 h	rt20/25	626.504	542.294 E3	13.4	87	0.00
10 h	decane	626.504	553.494 E3	11.7	88	0.00
11 h	butylcyclohexane	626.504	596.187 E3	4.8	95	0.00
Signal #2						
14	mtbe #2	504.452	476.384 E3	5.6	92	0.00
15	benzene #2	1.302	1.177 E6	9.6	84	-0.01
16 s	fluorobenzene #2	842.245	771.270 E3	8.4	86	0.00
17	toluene #2	1143.283	1040.937 E3	9.0	86	0.00
18 s	2,3,4-trifluorotoluene #2	466.878	408.614 E3	12.5	87	0.00
19	ethylbenzene #2	925.851	866.158 E3	6.4	87	0.00
20	m,p-xylene #2	1060.718	1054.105 E3	0.6	87	0.00
21	o-xylene #2	934.140	874.961 E3	6.3	86	0.00
22 t	1,3,5-trimethylbenzene #2	1306.512	1136.783 E3	13.0	78	0.00
23	1,2,4-trimethylbenzene #2	957.036	883.770 E3	7.7	85	0.00
24	naphthalene #2	722.911	706.222 E3	2.3	94	0.00
25 h	c9-c10 arom as 1,2,4-tmb	958.045	885.156 E3	7.6	84	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: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5157-CC5058
Lab FileID: AB93887A.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

ab160427vph.M Thu Apr 28 13:48:22 2016
```

GC Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/04/16 14:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,16 (Sig #1); mc45538-2,s,vmavph,00 (Sig #2)
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:22:14 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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	15.145	19953622	45.335	ppb	
Spiked Amount 50.000		Recovery =	90.67%		
6) s 2,3,4-trifluorotoluene	20.201	17806423	43.435	ppb	
Spiked Amount 50.000		Recovery =	86.87%		
16) s fluorobenzene #2	15.141	36851495	43.754	ppb	
Spiked Amount 50.000		Recovery =	87.51%		
18) s 2,3,4-trifluorotoluen...	20.197	19083732	40.875	ppb	m
Spiked Amount 50.000		Recovery =	81.75%		
Target Compounds					
1) h rt5.5-7	6.420	1167798	2.909	ppb	
2) h rt7/10	8.720	881708	2.196	ppb	
3) h rt10/13	13.870	3305379	8.232	ppb	
8) h rt20/25	21.870	15288968	24.404	ppb	
24) naphthalene #2	28.059	186216	0.258	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	24703760	25.786	ppb	

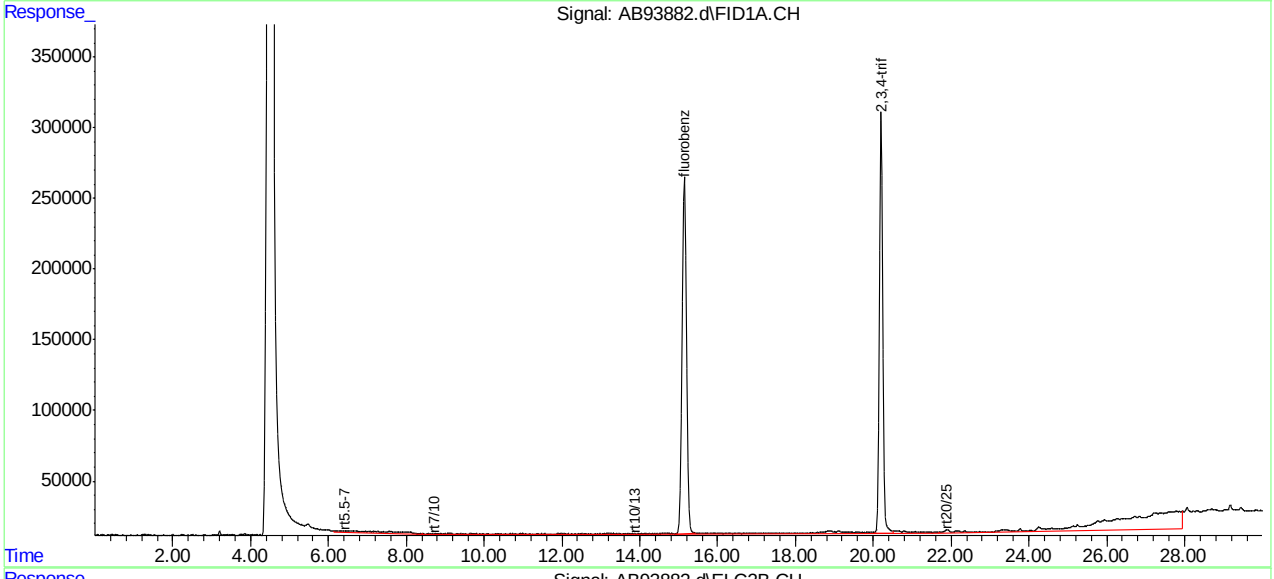
(f)=RT Delta > 1/2 Window (m)=manual int.

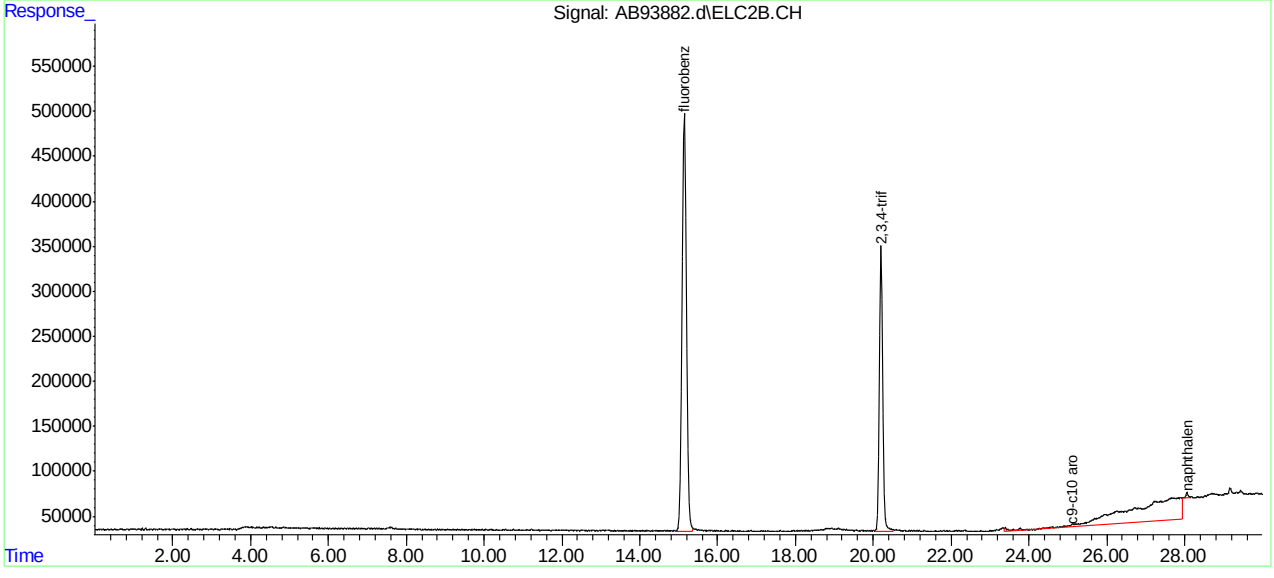
Quantitation Report (QT Reviewed)

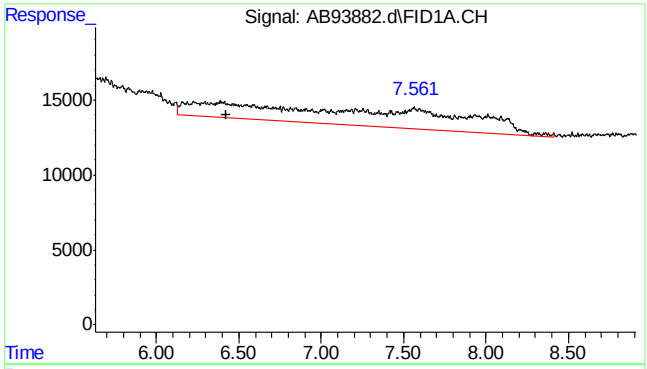
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,16 (Sig #1); mc45538-2,s,vmavph,00 (Sig #2)
Misc : gc26185,gab5156,15.64,,100,16,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 27 16:22:14 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :

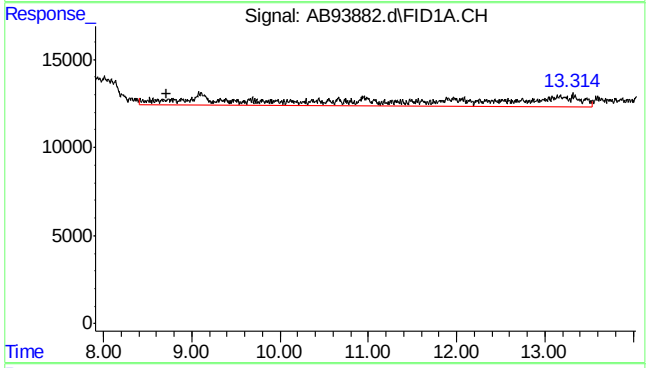






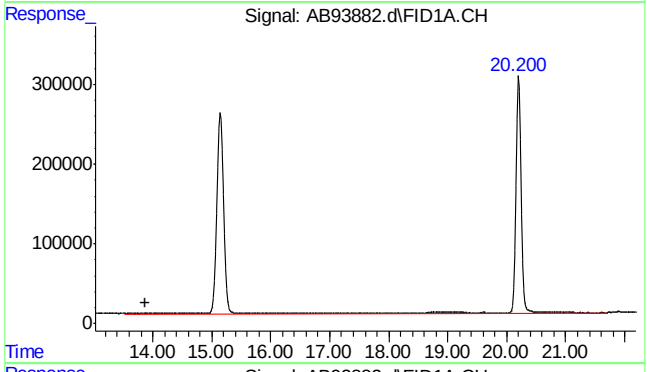
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 1167798
Conc: 2.91 ppb



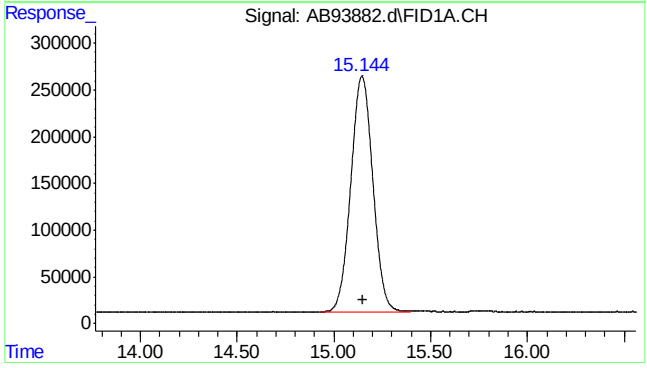
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 881708
Conc: 2.20 ppb



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 3305379
Conc: 8.23 ppb



#4 fluorobenzene

R.T.: 15.145 min
Delta R.T.: -0.007 min
Response: 19953622
Conc: 45.33 ppb

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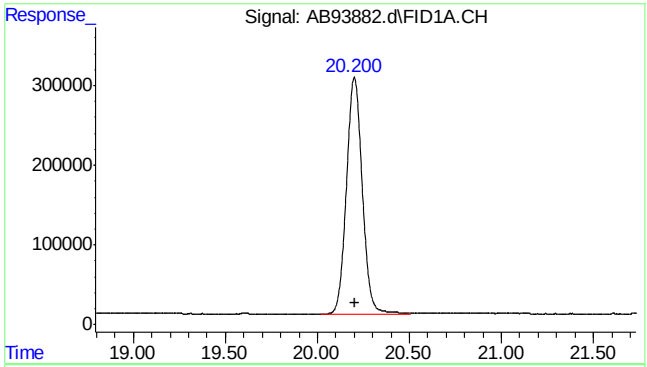
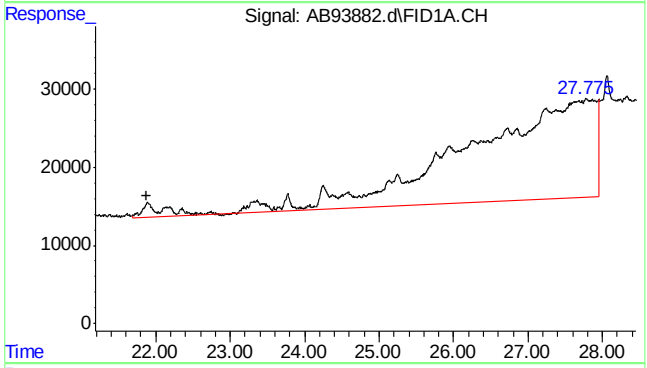


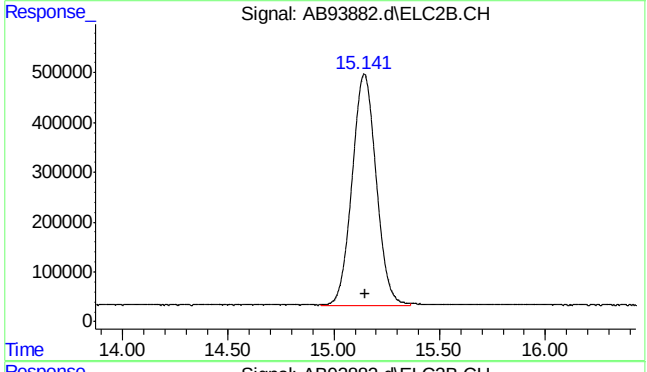
#6 2,3,4-trifluorotoluene

R.T.: 20.201 min
Delta R.T.: -0.005 min
Response: 17806423
Conc: 43.44 ppb



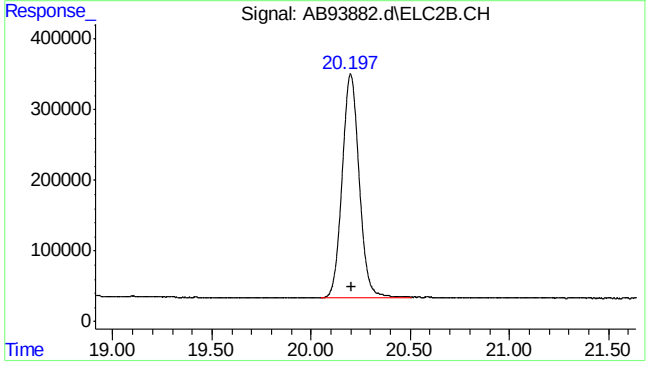
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 15288968
Conc: 24.40 ppb



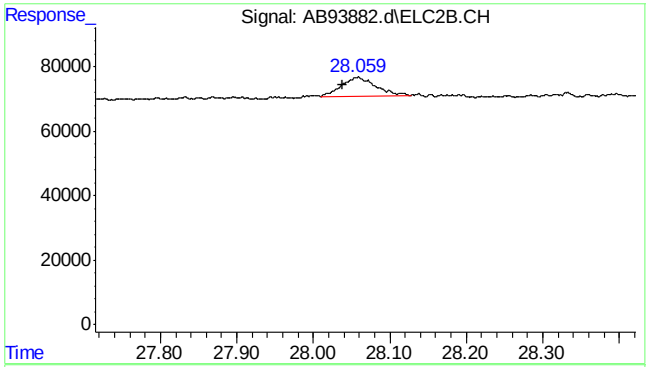
#16 fluorobenzene #2

R.T.: 15.141 min
Delta R.T.: -0.007 min
Response: 36851495
Conc: 43.75 ppb



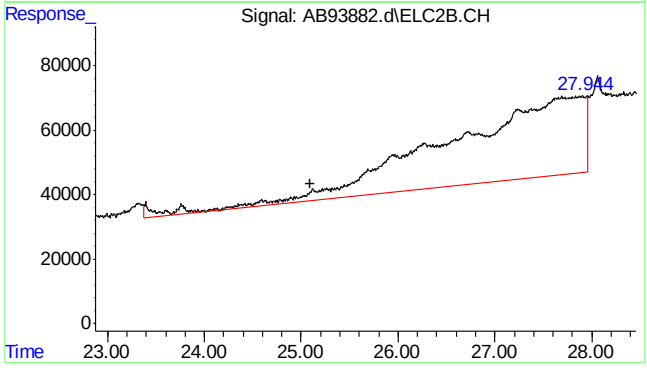
#18 2,3,4-trifluorotoluene #2

R.T.: 20.197 min
Delta R.T.: -0.006 min
Response: 19083732
Conc: 40.88 ppb m



#24 naphthalene #2

R.T.: 28.059 min
Delta R.T.: 0.021 min
Response: 186216
Conc: 0.26 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 24703760
Conc: 25.79 ppb

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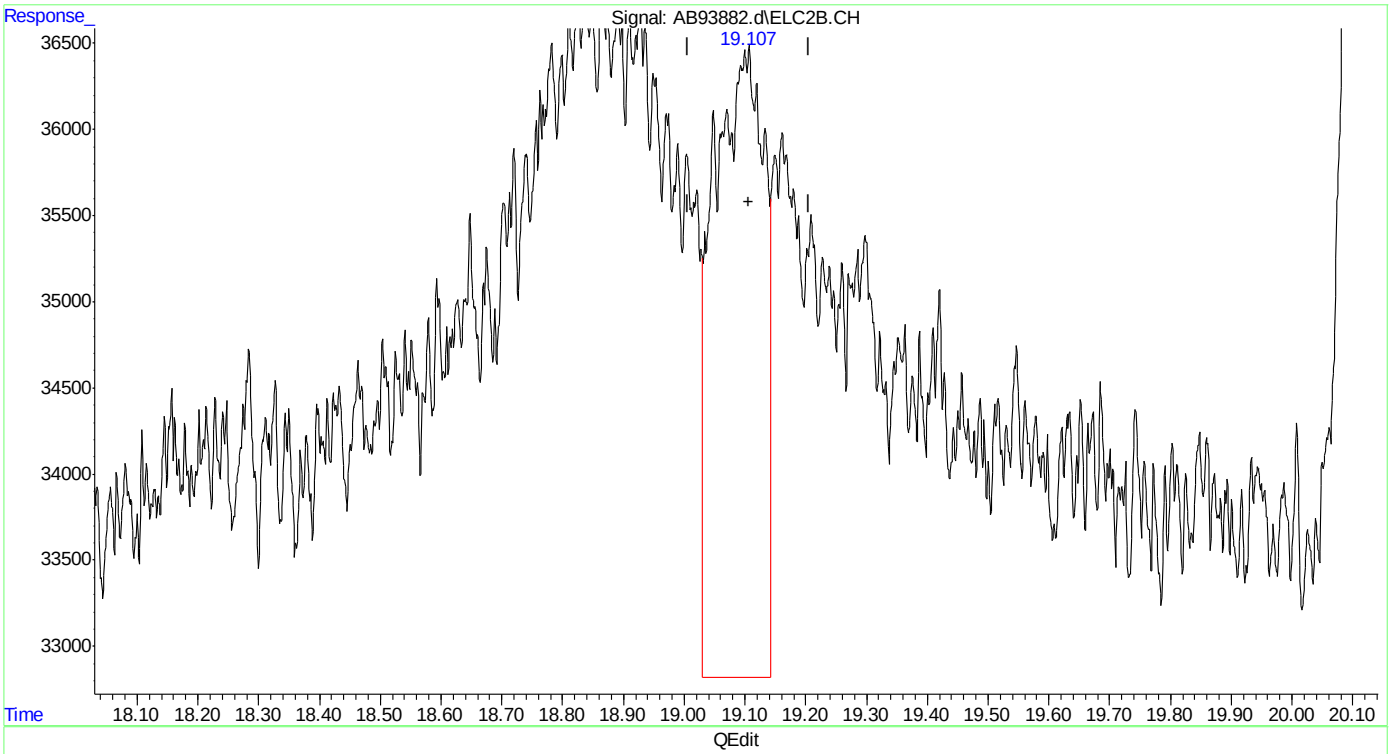
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
19.103min 0.185 ppb
response 211470

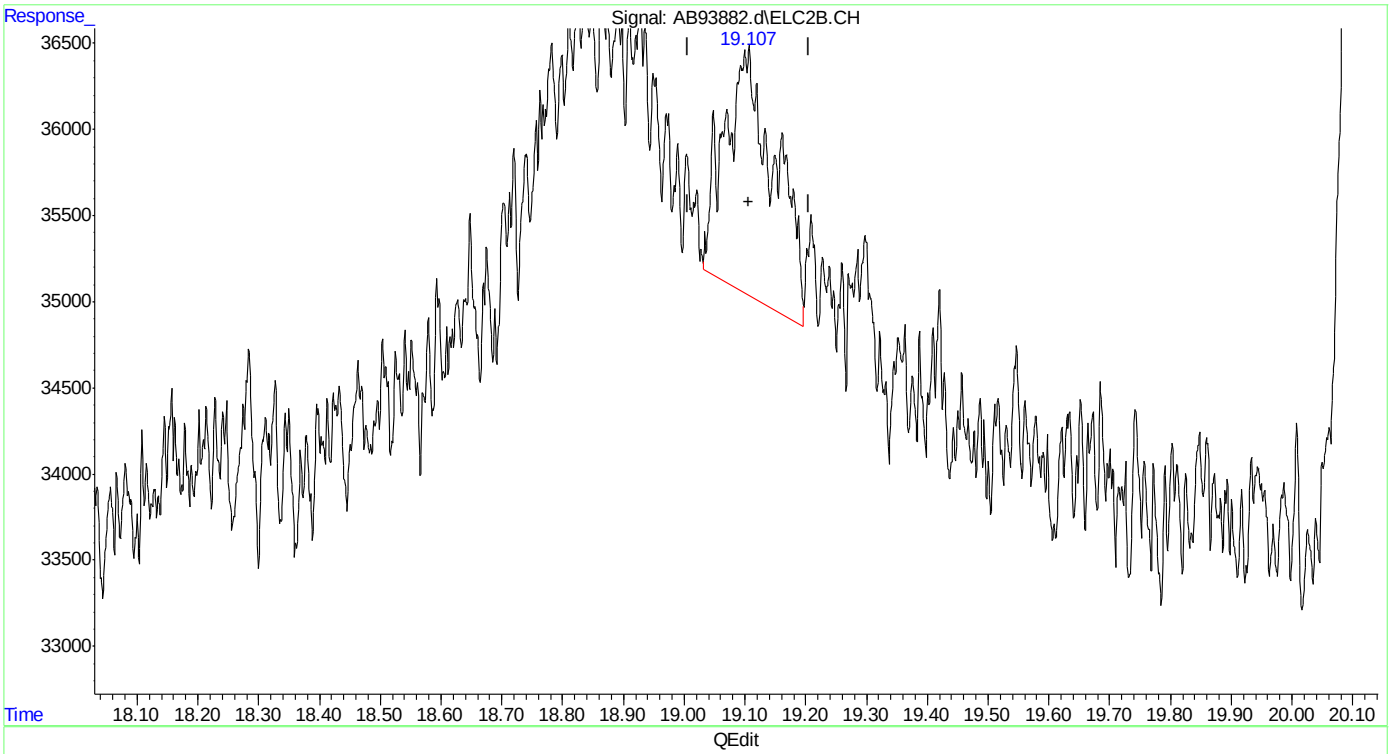
(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 16:21:26 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
19.107min 0.072 ppb m
response 82798

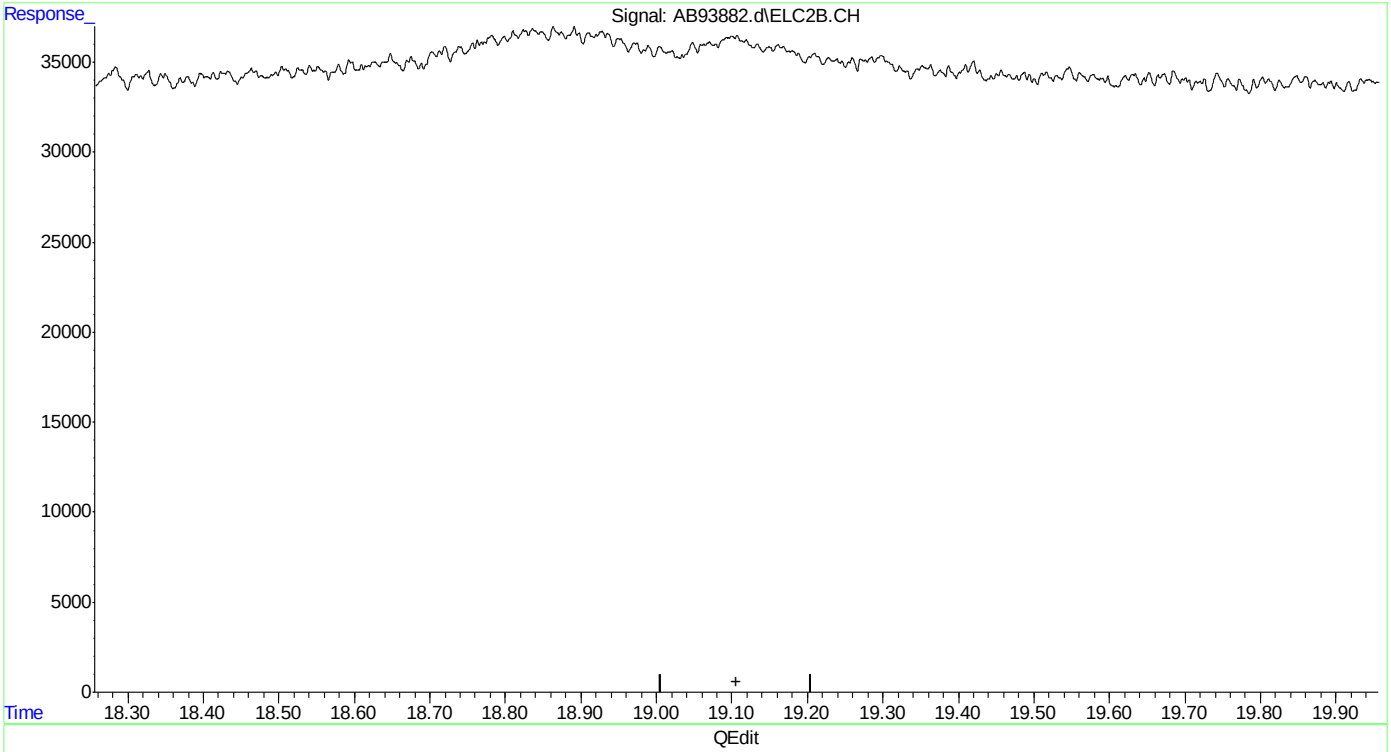
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
0.000min 0.000 ppb d
response 0

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 16:21:36 2016

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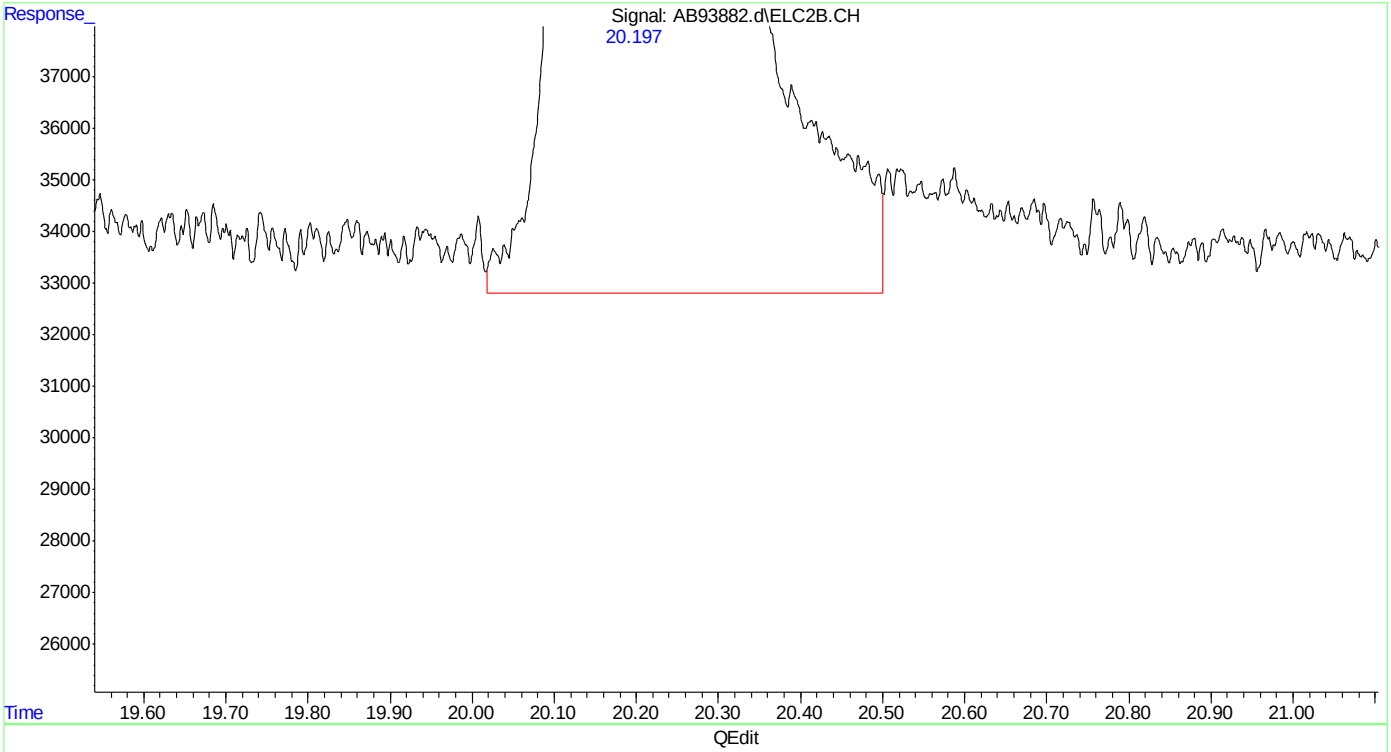
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
20.198min 41.236 ppb
response 19252062

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
20.197min 40.875 ppb m
response 19083732

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 16:21:48 2016

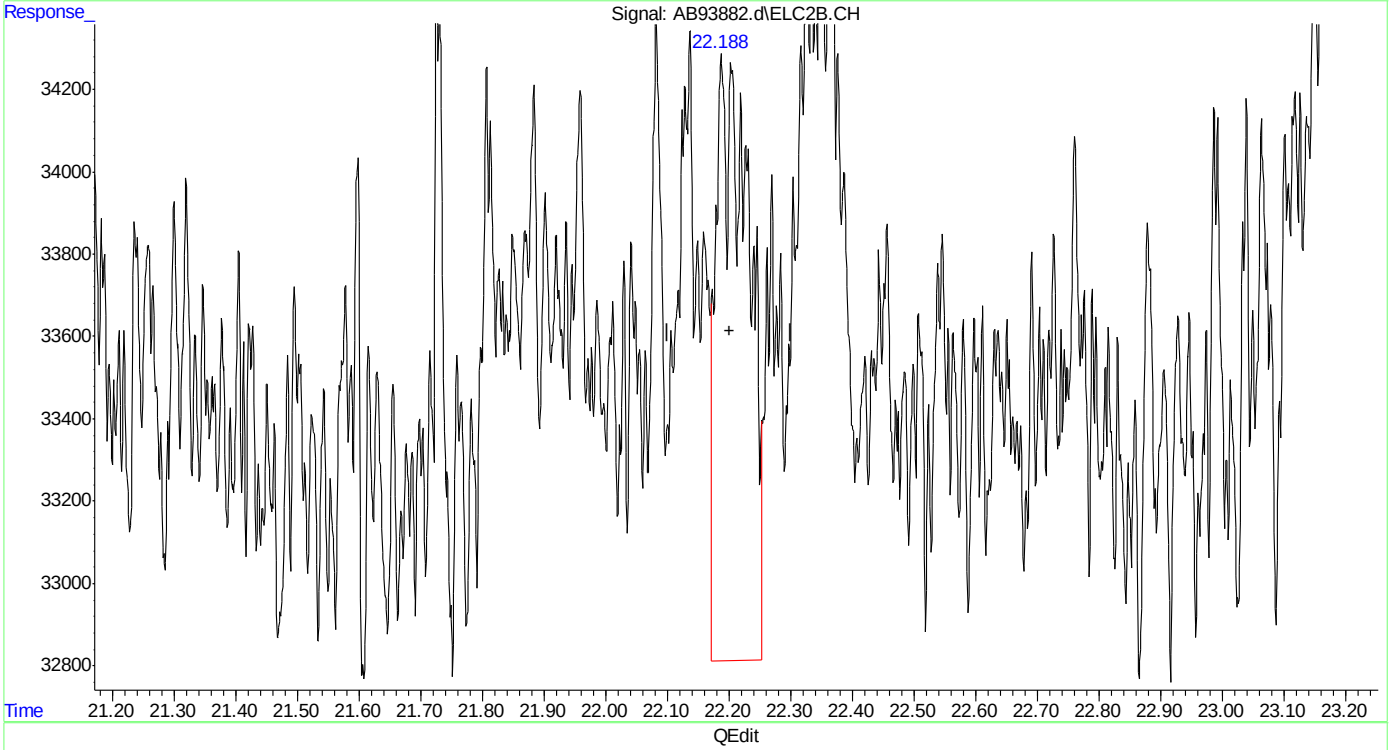
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
22.189min 0.059 ppb
response 54322

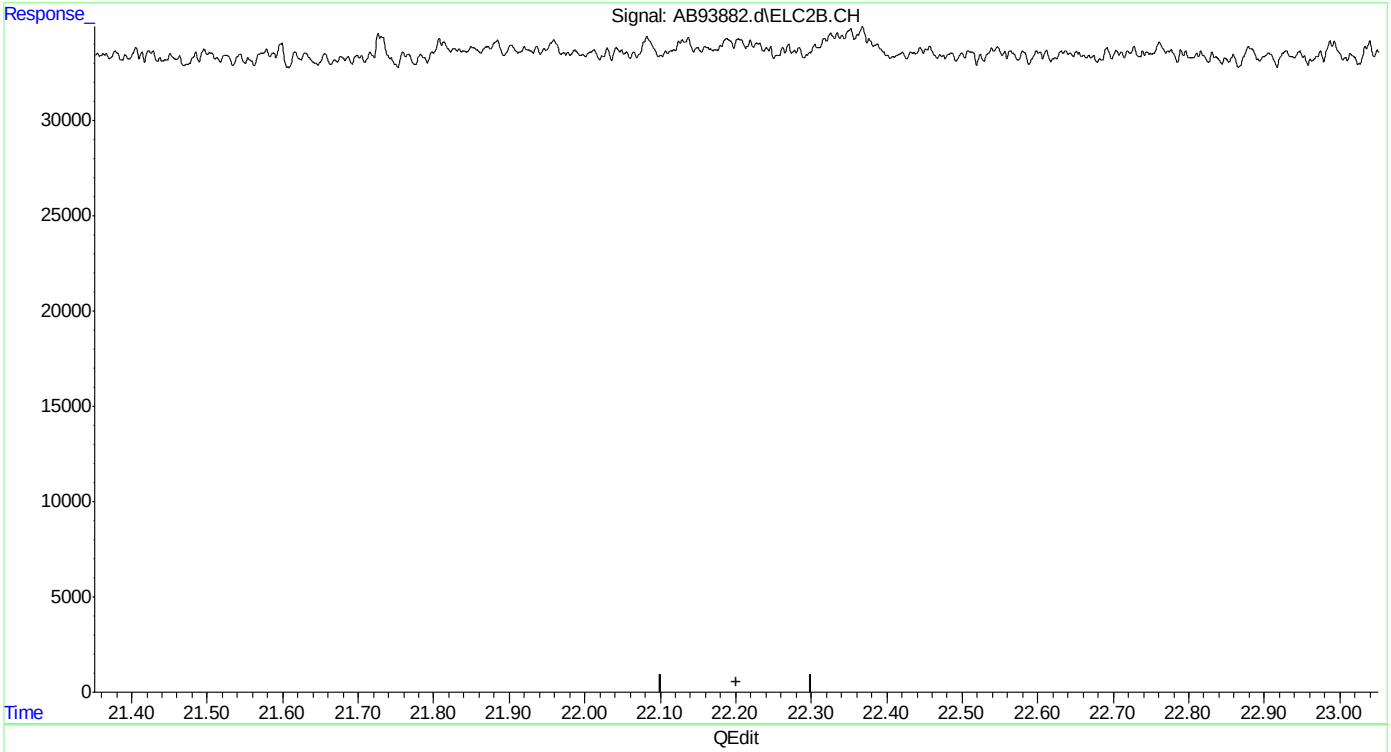
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
0.000min 0.000 ppb d
response 0

(+) = Expected Retention Time

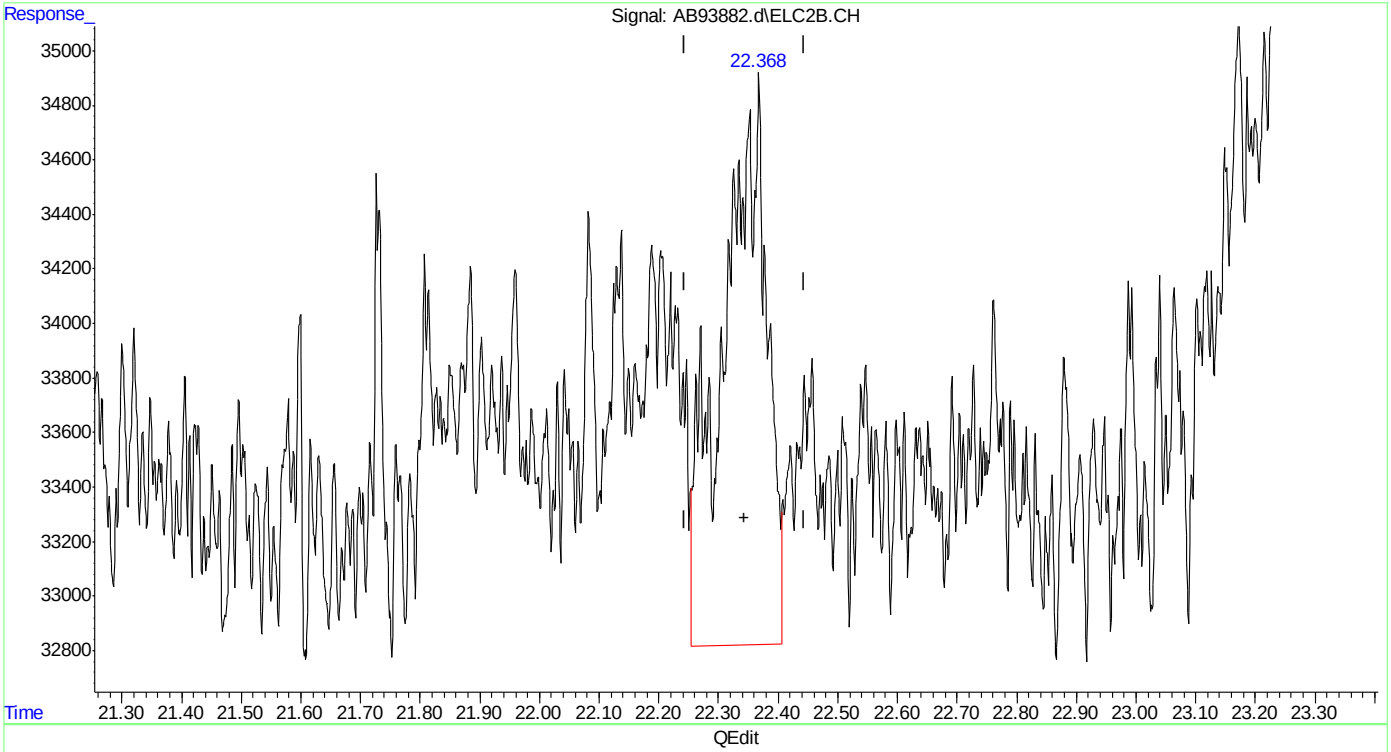
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
22.367min 0.100 ppb
response 106497

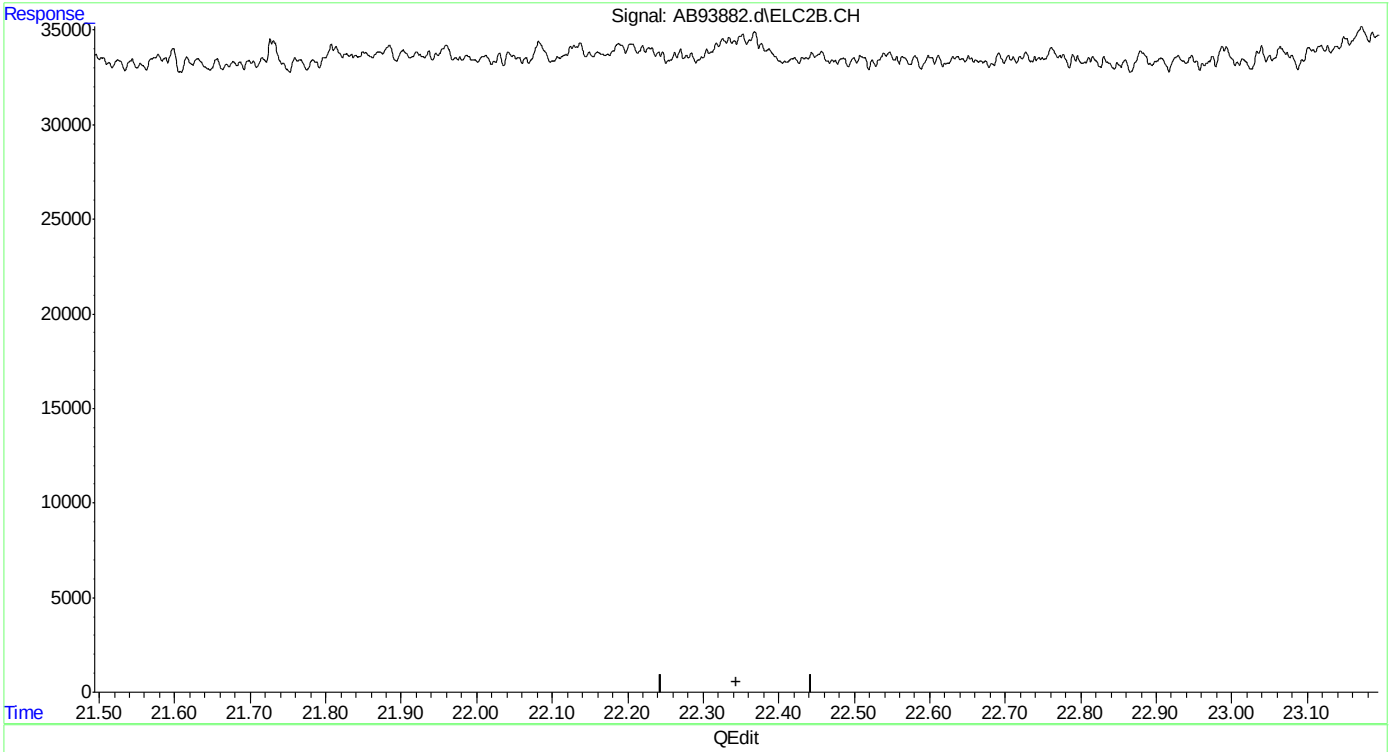
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
0.000min 0.000 ppb d
response 0

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 16:22:02 2016

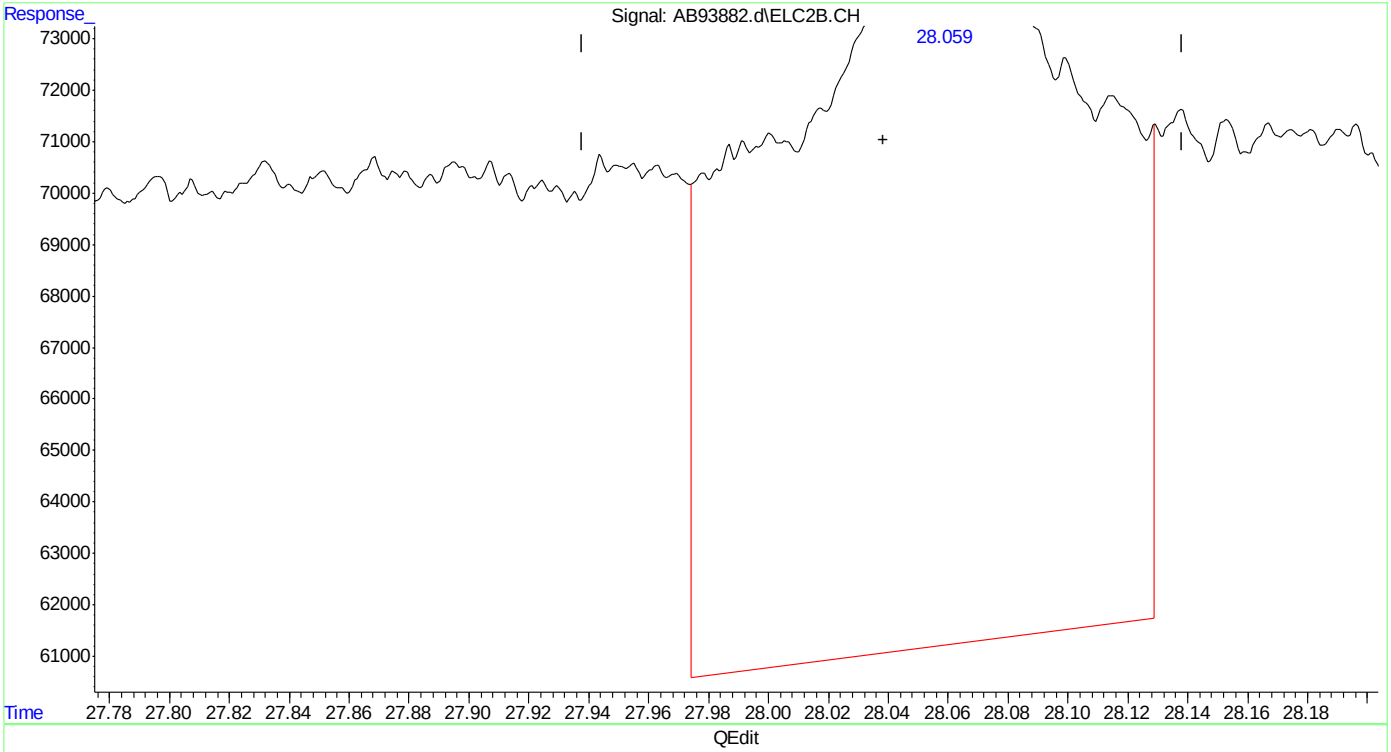
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
28.058min 1.499 ppb
response 1083544

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93882.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 14:26:41
Operator : danielf
Sample : mc45538-2,s,vmavph,00
Misc : gc26185,gab5156,15.64,,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: Apr 27 16:20:44 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 0.258 ppb m
response 186216

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 16:22:16 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 13:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93878.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:52:55
Operator : danielf
Sample : mb,s,vmavph,16 (Sig #1); mb,s,vmavph,00 (Sig #2)
Misc : gc26185,gab5156,16,,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: Apr 27 12:29:00 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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	15.142	22336522	50.749 ppb
Spiked Amount 50.000		Recovery	= 101.50%
6) s 2,3,4-trifluorotoluene	20.198	19925752	48.605 ppb
Spiked Amount 50.000		Recovery	= 97.21%
16) s fluorobenzene #2	15.138	41616858	49.412 ppb m
Spiked Amount 50.000		Recovery	= 98.82%
18) s 2,3,4-trifluorotoluen...	20.196	21431549	45.904 ppb
Spiked Amount 50.000		Recovery	= 91.81%
Target Compounds			
1) h rt5.5-7	6.420	1330876	3.315 ppb
2) h rt7/10	8.720	1070250	2.666 ppb
3) h rt10/13	13.870	3661676	9.120 ppb
8) h rt20/25	21.870	15730591	25.109 ppb
24) naphthalene #2	28.053	495653	0.686 ppb m
25) h c9-c10 arom as 1,2,4-tmb	25.096	26005479	27.144 ppb

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

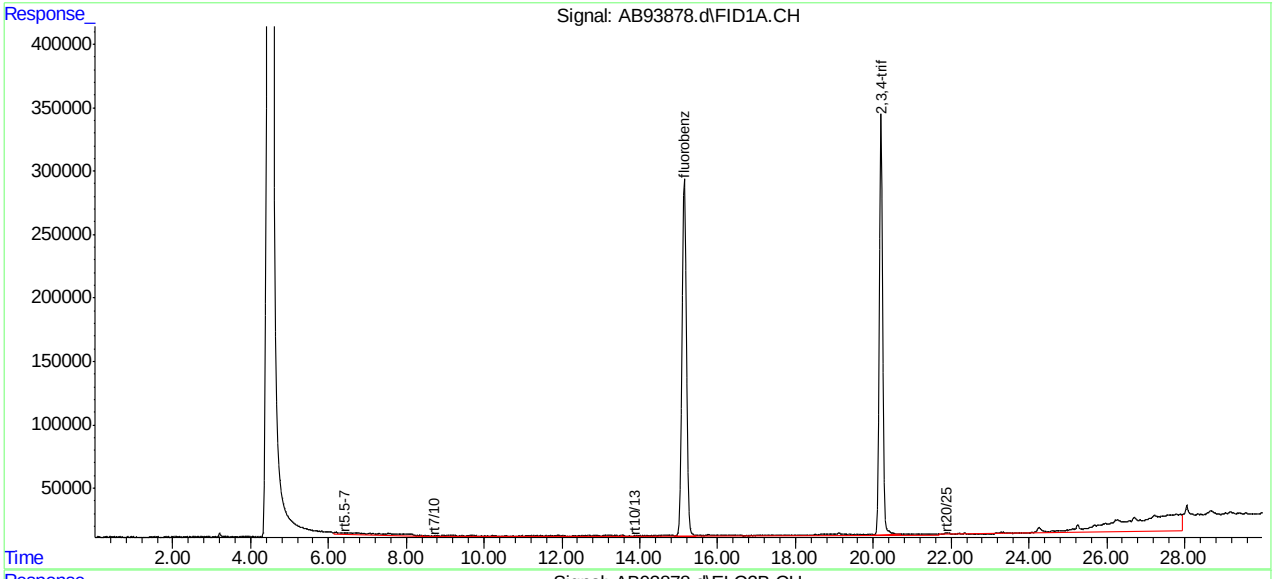
SGS ACCUTEST MC45538

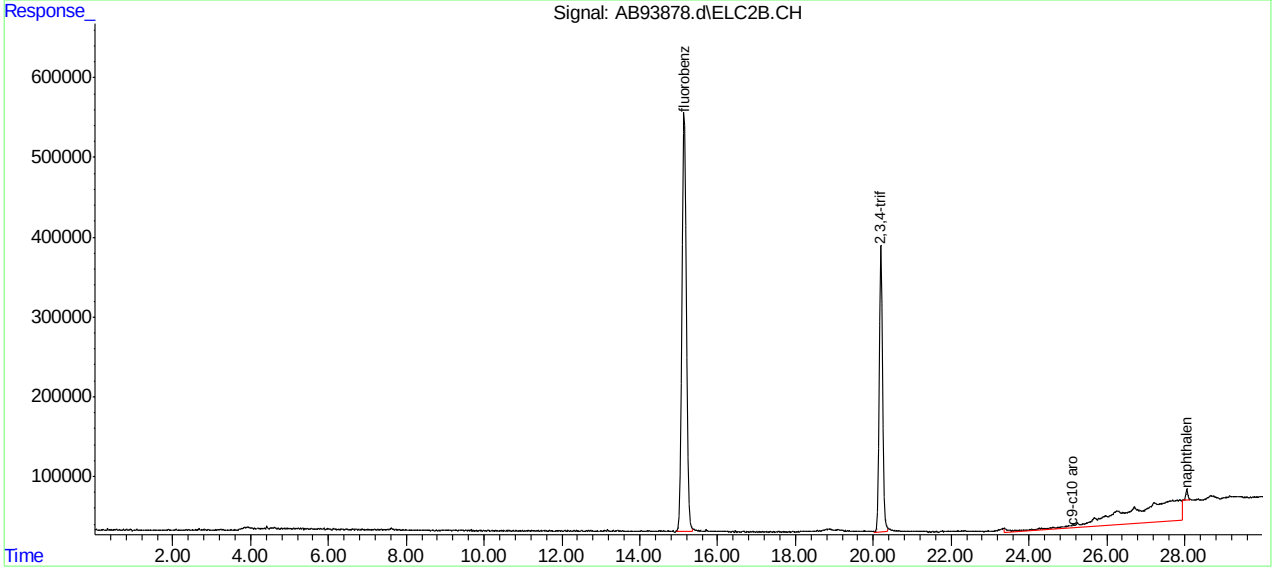
Quantitation Report (QT Reviewed)

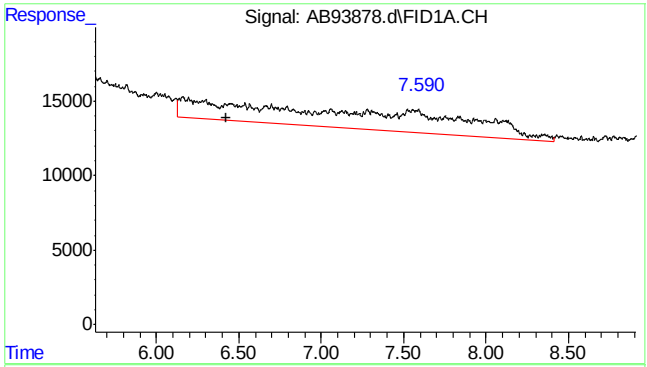
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93878.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:52:55
Operator : danielf
Sample : mb,s,vmavph,16 (Sig #1); mb,s,vmavph,00 (Sig #2)
Misc : gc26185,gab5156,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 27 12:29:00 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :

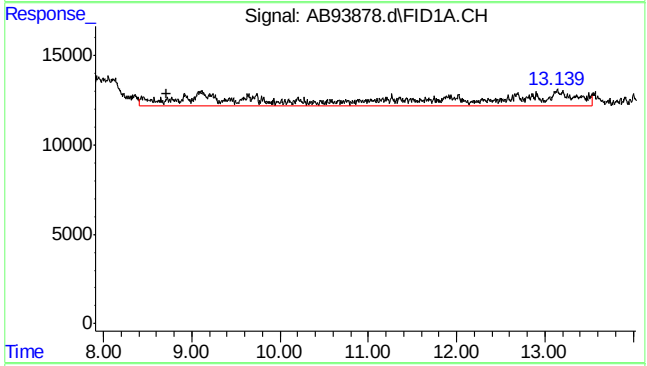






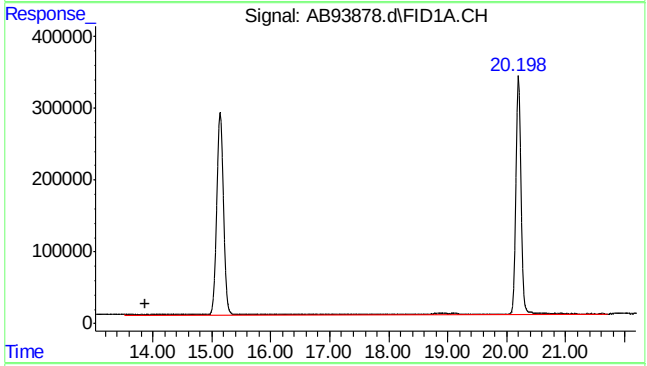
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 1330876
Conc: 3.31 ppb



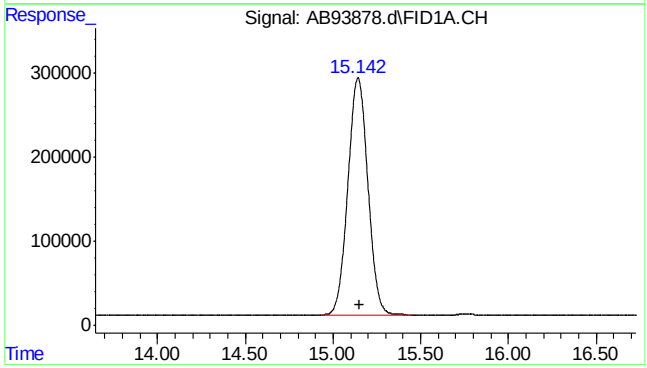
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 1070250
Conc: 2.67 ppb



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 3661676
Conc: 9.12 ppb



#4 fluorobenzene

R.T.: 15.142 min
Delta R.T.: -0.009 min
Response: 22336522
Conc: 50.75 ppb

7.2.1

7

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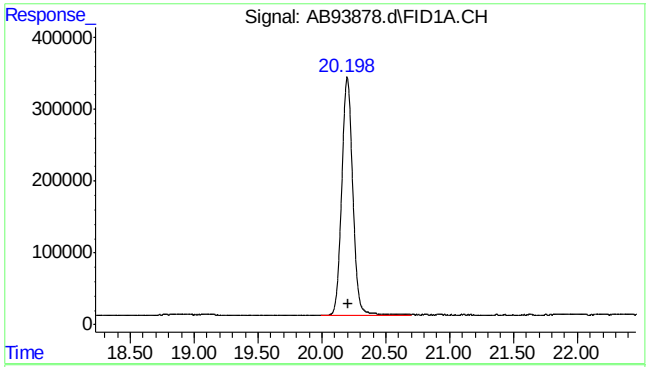
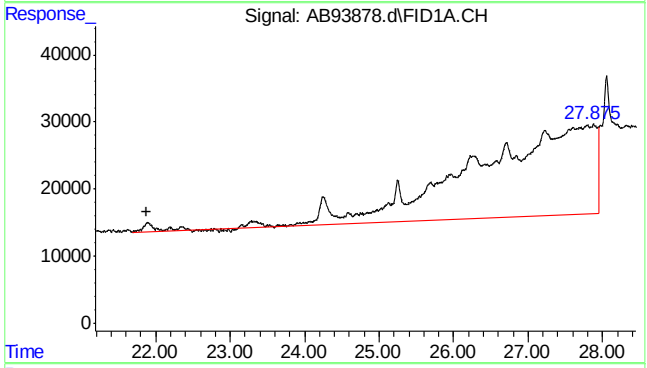


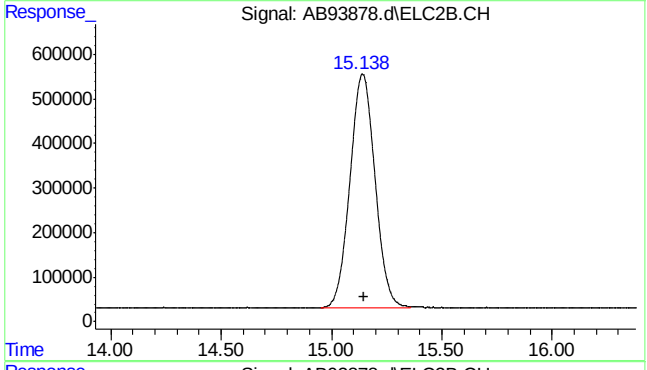
#6 2,3,4-trifluorotoluene

R.T.: 20.198 min
Delta R.T.: -0.007 min
Response: 19925752
Conc: 48.61 ppb



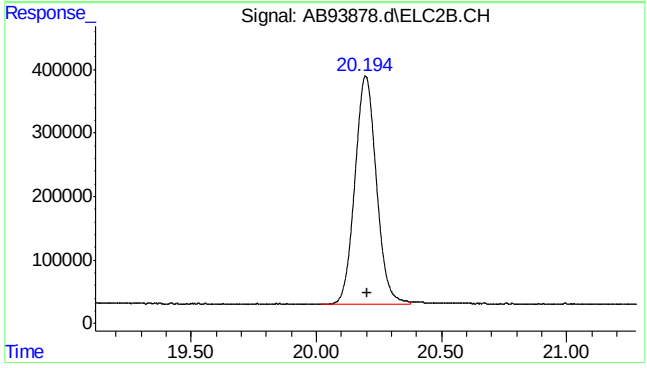
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 15730591
Conc: 25.11 ppb



#16 fluorobenzene #2

R.T.: 15.138 min
Delta R.T.: -0.010 min
Response: 41616858
Conc: 49.41 ppb m



#18 2,3,4-trifluorotoluene #2

R.T.: 20.196 min
Delta R.T.: -0.007 min
Response: 21431549
Conc: 45.90 ppb

7.2.1

7

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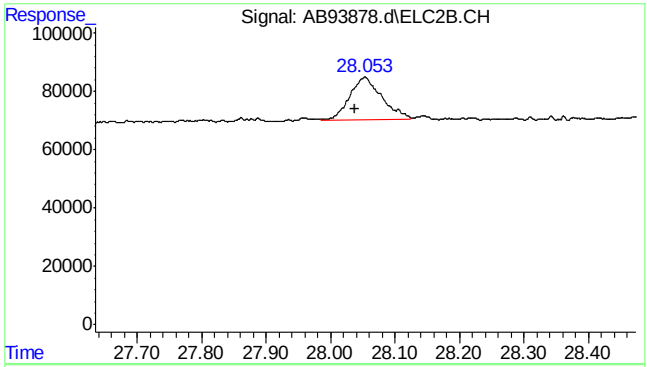
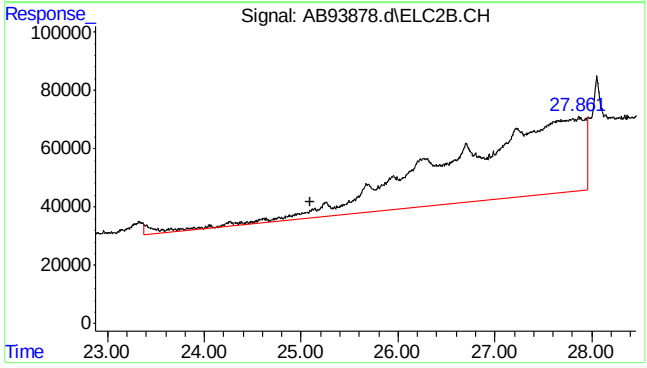


#24 naphthalene #2

```
      R.T.:   28.053 min
Delta R.T.:    0.015 min
  Response:    495653
      Conc:   0.69 ppb m
```



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

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  26005479
      Conc:  27.14 ppb
```

7.2.1

7

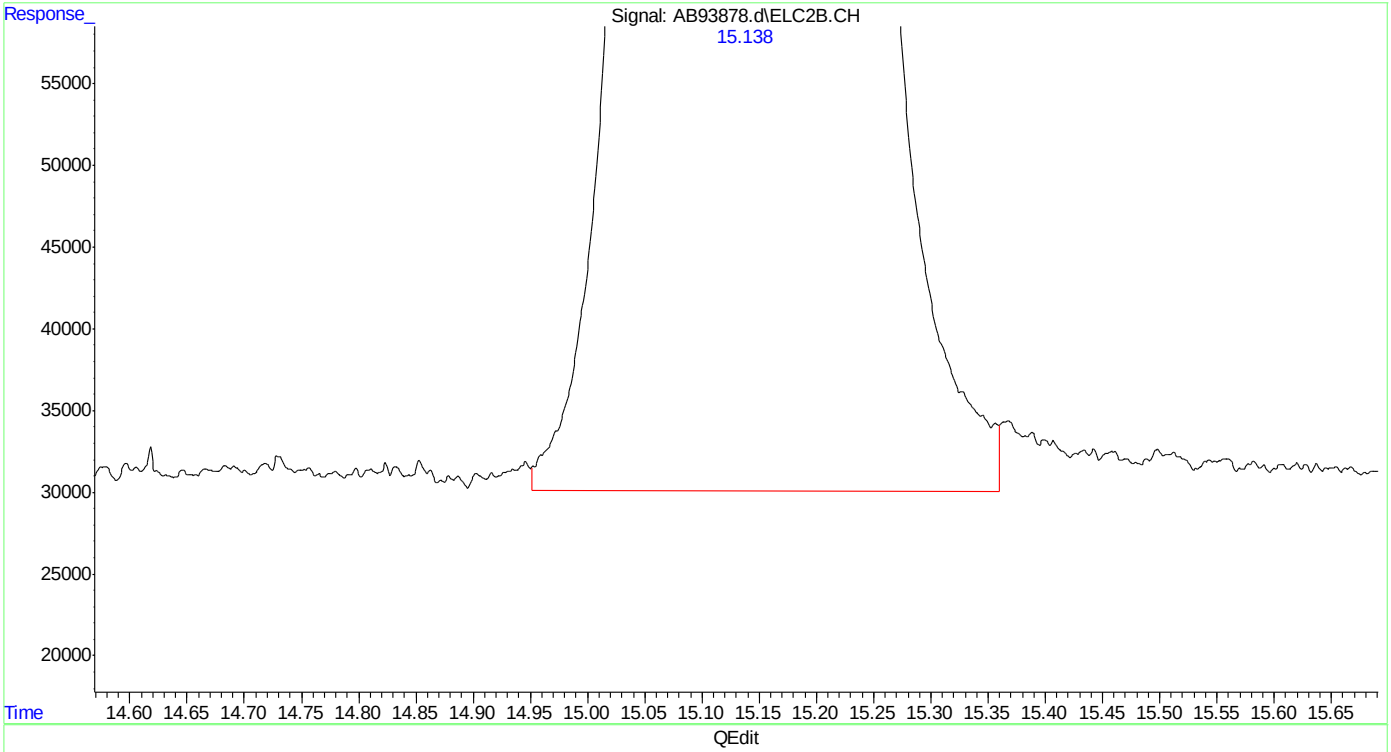
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93878.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 11:52:55
Operator  : danielf
Sample    : mb,s,vmavph,00
Misc      : gc26185,gab5156,16,,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: Apr 27 12:28:02 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)

15.139min 49.614 ppb

response 41787242

(+) = Expected Retention Time

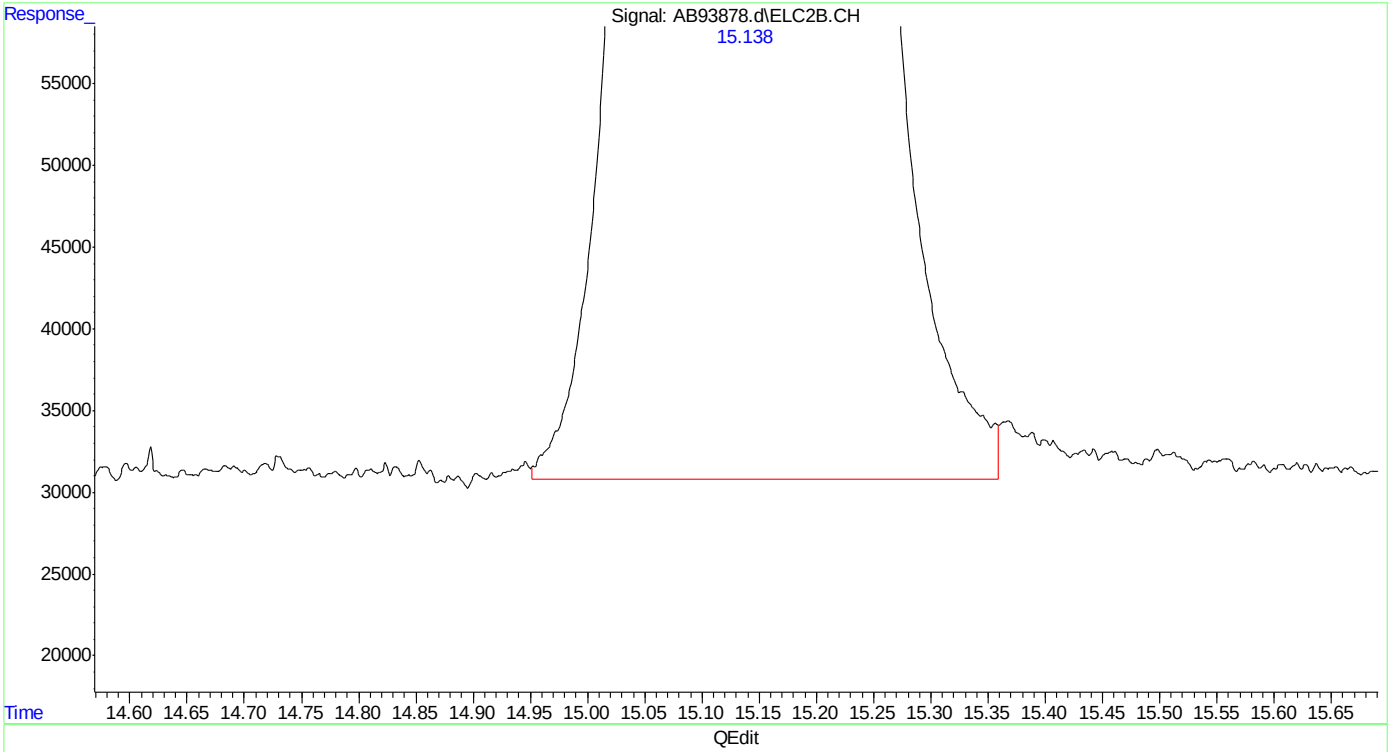
ab160427vph.M Wed Apr 27 12:28:25 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93878.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 11:52:55
Operator  : danielf
Sample    : mb,s,vmavph,00
Misc      : gc26185,gab5156,16,,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: Apr 27 12:28:02 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)

15.138min 49.412 ppb m

response 41616858

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 12:28:32 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93878.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 11:52:55
Operator  : danielf
Sample    : mb,s,vmavph,00
Misc      : gc26185,gab5156,16,,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: Apr 27 12:28:02 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 1.985 ppb

response 1435135

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 12:28:51 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93878.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 11:52:55
Operator  : danielf
Sample    : mb,s,vmavph,00
Misc      : gc26185,gab5156,16,,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: Apr 27 12:28:02 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 0.686 ppb m

response 495653

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 12:29:02 2016

SGS ACCUTEST MC45538

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 13:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 12:31:00
Operator : danielf
Sample : bsp,s,vmavph,20 (Sig #1); bsp,s,vmavph,00 (Sig #2)
Misc : gc26185,gab5156,20,,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: Apr 27 13:04:39 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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	15.140	22474886	51.063 ppb	m
Spiked Amount 50.000		Recovery	= 102.13%	
6) s 2,3,4-trifluorotoluene	20.198	20364322	49.675 ppb	
Spiked Amount 50.000		Recovery	= 99.35%	
16) s fluorobenzene #2	15.136	42318001	50.244 ppb	m
Spiked Amount 50.000		Recovery	= 100.49%	
18) s 2,3,4-trifluorotoluen...	20.194	22149920	47.443 ppb	m
Spiked Amount 50.000		Recovery	= 94.89%	
Target Compounds				
1) h rt5.5-7	6.420	13586303	33.838 ppb	m
2) h rt7/10	8.720	17415452	43.375 ppb	m
3) h rt10/13	13.870	21504105	53.558 ppb	m
8) h rt20/25	21.870	27196242	43.410 ppb	m
10) h decane	24.200	27871944	44.488 ppb	
11) h butylcyclohexane	25.240	29695672	47.399 ppb	m
14) mtbe #2	9.499	24465814	48.500 ppb	m
15) benzene #2	14.638	62697884	48.168 ppb	m
17) toluene #2	19.099	54329938	47.521 ppb	m
19) ethylbenzene #2	22.194	44873282	48.467 ppb	
20) m,p-xylene #2	22.337	107822565	101.651 ppb	
21) o-xylene #2	23.143	45378984	48.578 ppb	
22) t 1,3,5-trimethylbenzen...	24.574	56445652	43.203 ppb	
23) 1,2,4-trimethylbenzen...	25.092	45257057	47.289 ppb	
24) naphthalene #2	28.036	32407659	44.829 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	45336272	47.322 ppb	m

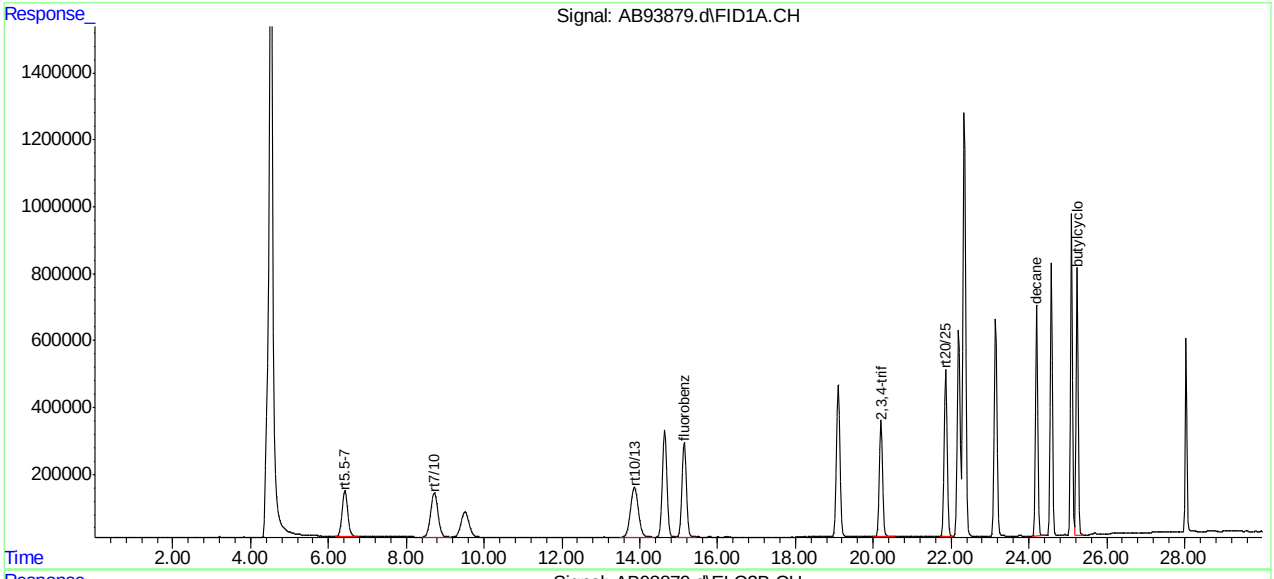
(f)=RT Delta > 1/2 Window (m)=manual int.

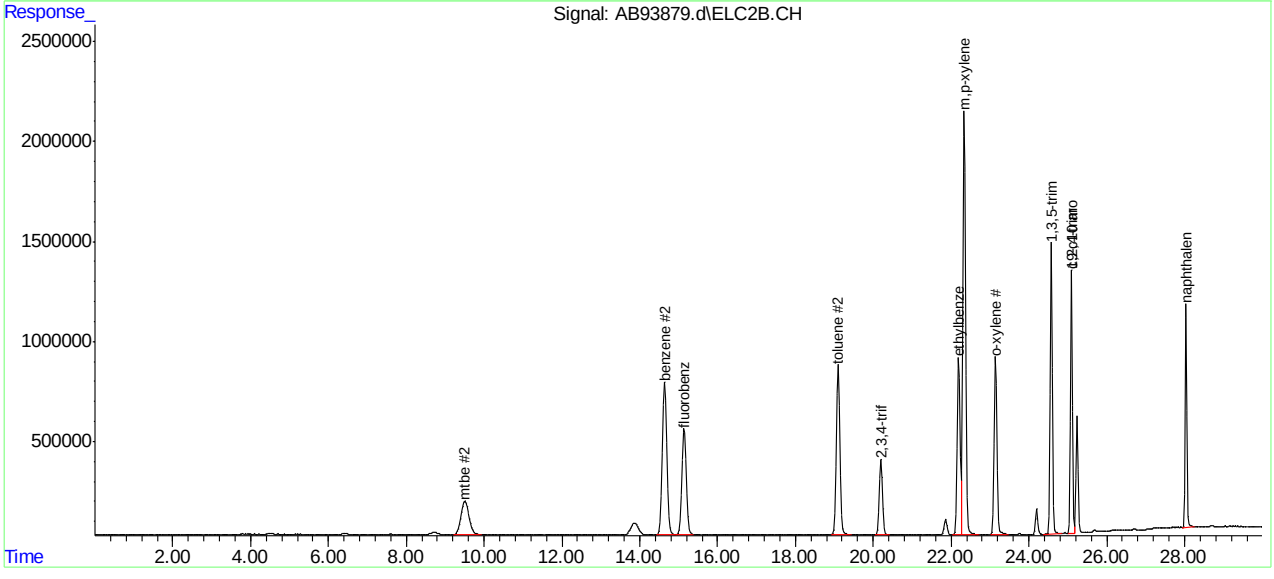
Quantitation Report (QT Reviewed)

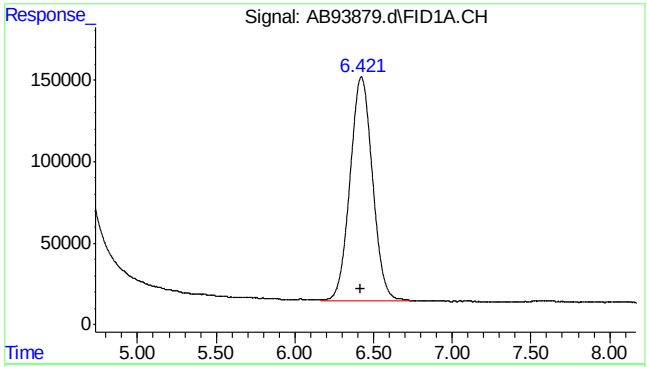
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 12:31:00
Operator : danielf
Sample : bsp,s,vmavph,20 (Sig #1); bsp,s,vmavph,00 (Sig #2)
Misc : gc26185,gab5156,20,,100,20,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 27 13:04:39 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :

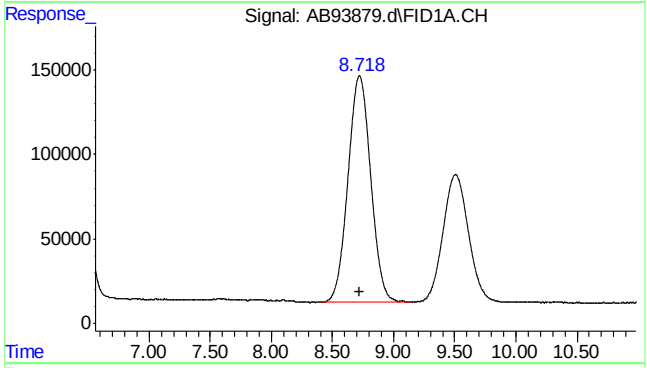






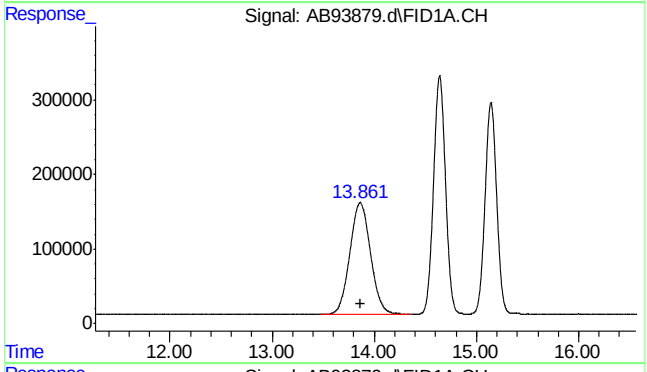
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 13586303
Conc: 33.84 ppb m



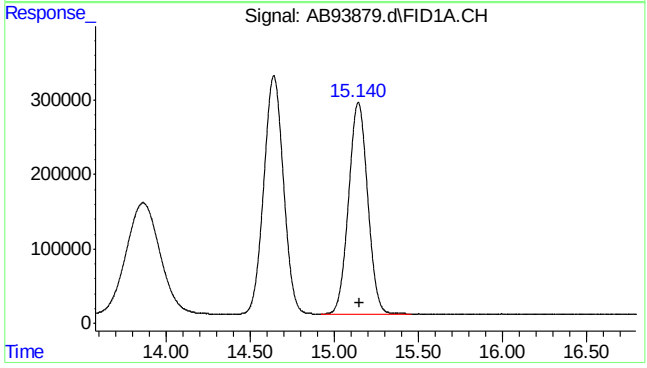
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 17415452
Conc: 43.37 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21504105
Conc: 53.56 ppb m



#4 fluorobenzene

R.T.: 15.140 min
Delta R.T.: -0.011 min
Response: 22474886
Conc: 51.06 ppb m

7.3.1

7

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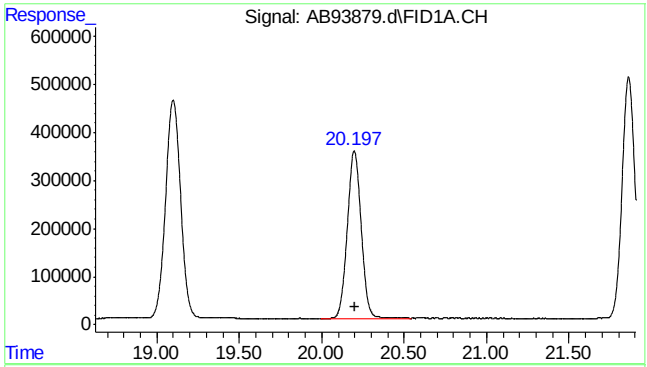
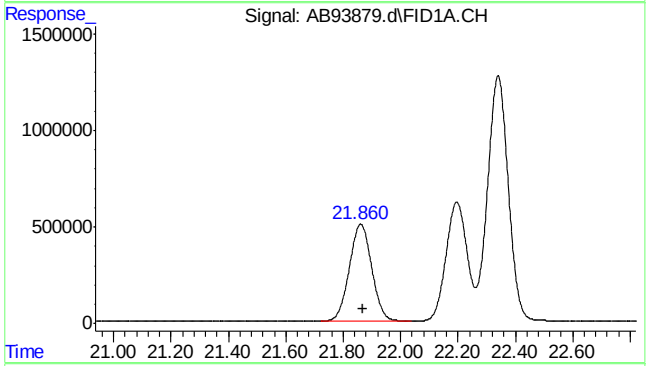


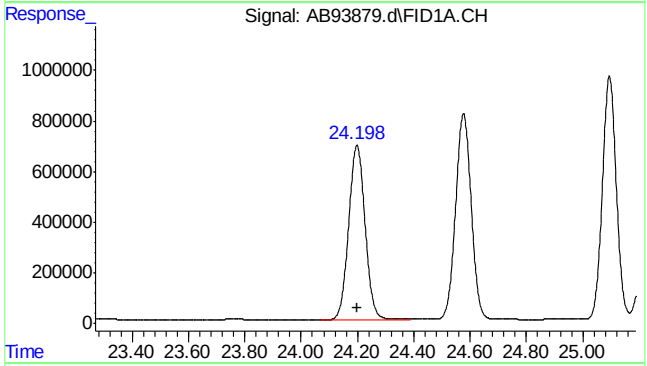
#6 2,3,4-trifluorotoluene

R.T.: 20.198 min
Delta R.T.: -0.008 min
Response: 20364322
Conc: 49.67 ppb



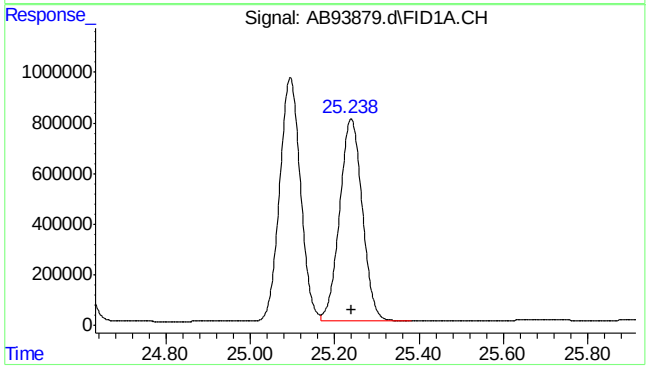
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 27196242
Conc: 43.41 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 27871944
Conc: 44.49 ppb



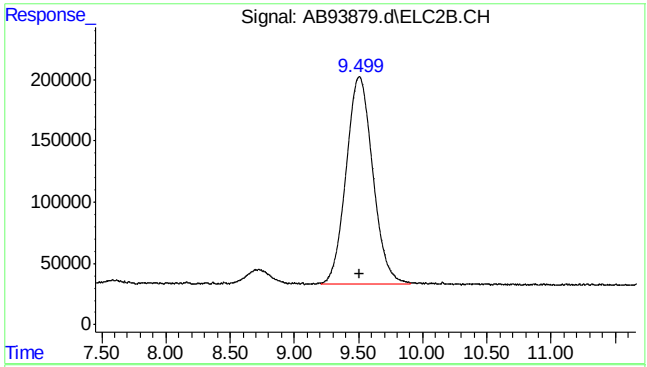
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29695672
Conc: 47.40 ppb m

7.3.1

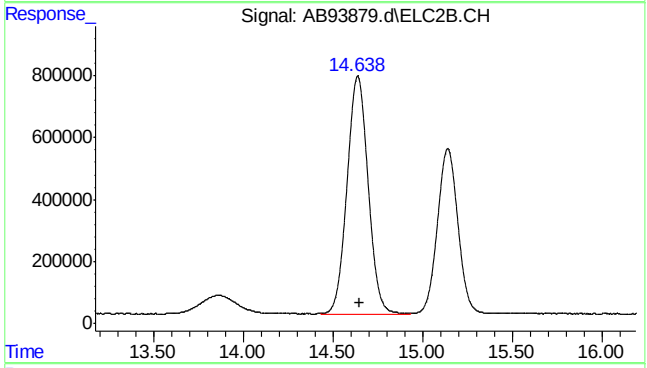
7

SGS ACCUTEST MC45538



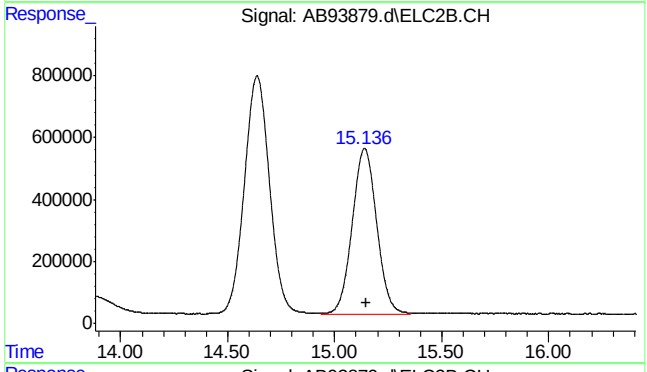
#14 mtbe #2

R.T.: 9.499 min
Delta R.T.: -0.012 min
Response: 24465814
Conc: 48.50 ppb m



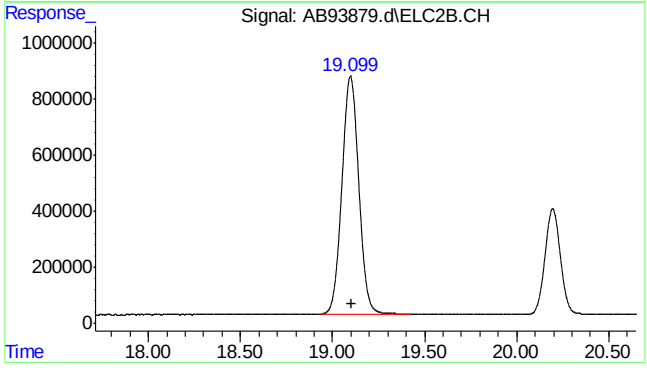
#15 benzene #2

R.T.: 14.638 min
Delta R.T.: -0.008 min
Response: 62697884
Conc: 48.17 ppb m



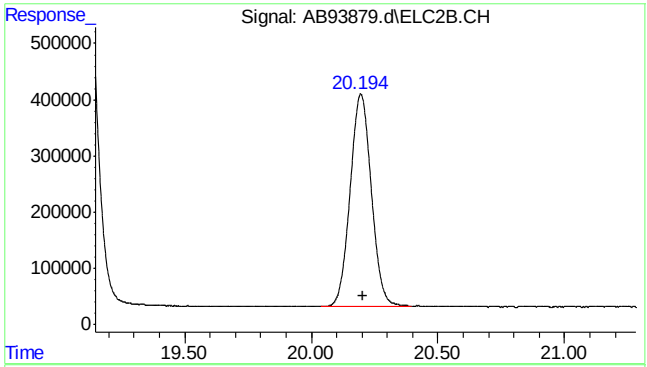
#16 fluorobenzene #2

R.T.: 15.136 min
Delta R.T.: -0.012 min
Response: 42318001
Conc: 50.24 ppb m



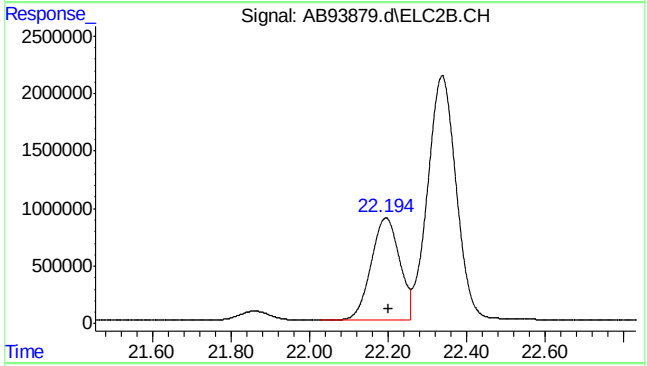
#17 toluene #2

R.T.: 19.099 min
Delta R.T.: -0.007 min
Response: 54329938
Conc: 47.52 ppb m



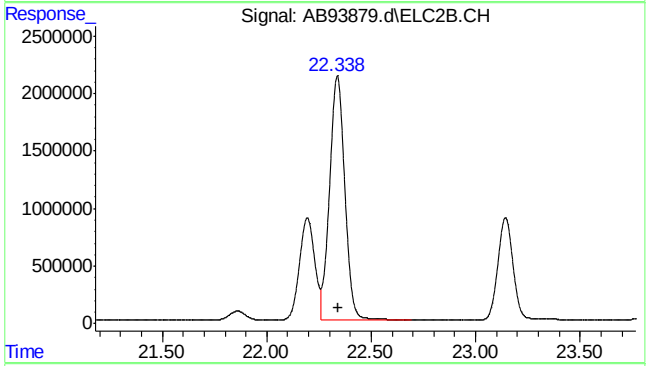
#18 2,3,4-trifluorotoluene #2

R.T.: 20.194 min
Delta R.T.: -0.009 min
Response: 22149920
Conc: 47.44 ppb m



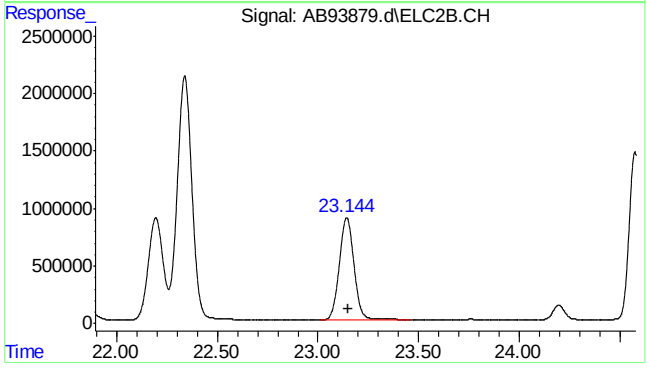
#19 ethylbenzene #2

R.T.: 22.194 min
Delta R.T.: -0.007 min
Response: 44873282
Conc: 48.47 ppb



#20 m,p-xylene #2

R.T.: 22.337 min
Delta R.T.: -0.007 min
Response: 107822565
Conc: 101.65 ppb



#21 o-xylene #2

R.T.: 23.143 min
Delta R.T.: -0.007 min
Response: 45378984
Conc: 48.58 ppb

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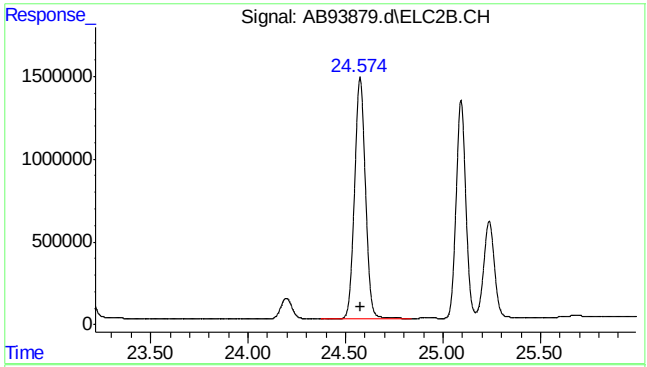
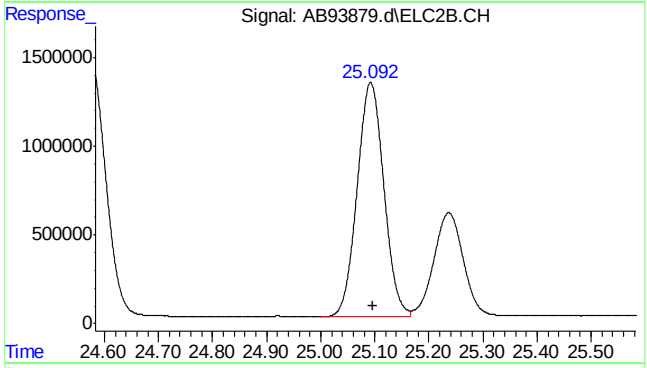


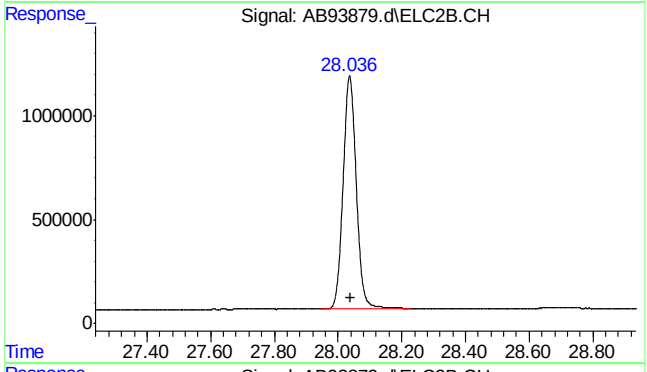
#22 1,3,5-trimethylbenzene #2

R.T.: 24.574 min
Delta R.T.: -0.005 min
Response: 56445652
Conc: 43.20 ppb



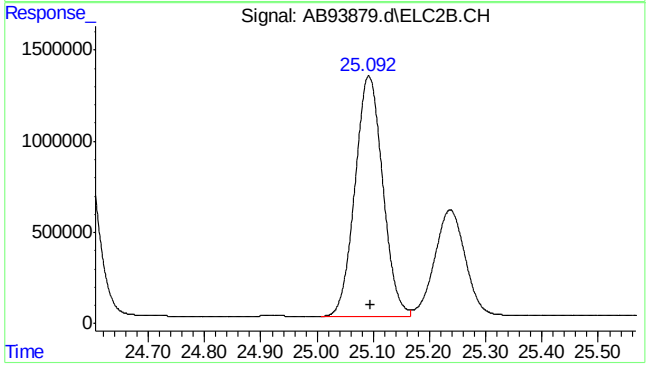
#23 1,2,4-trimethylbenzene #2

R.T.: 25.092 min
Delta R.T.: -0.004 min
Response: 45257057
Conc: 47.29 ppb



#24 naphthalene #2

R.T.: 28.036 min
Delta R.T.: -0.002 min
Response: 32407659
Conc: 44.83 ppb m



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

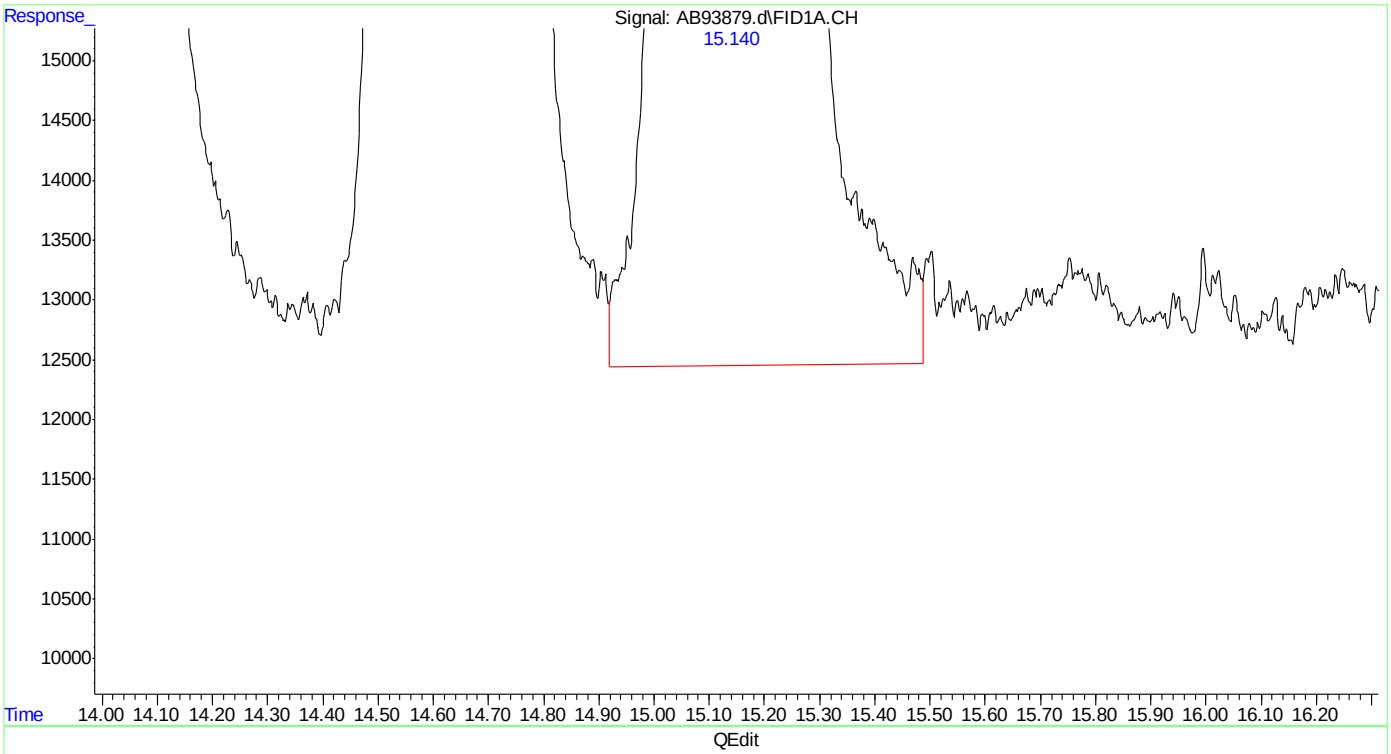
R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 45336272
Conc: 47.32 ppb m

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)

15.141min 51.285 ppb

response 22572443

(+) = Expected Retention Time

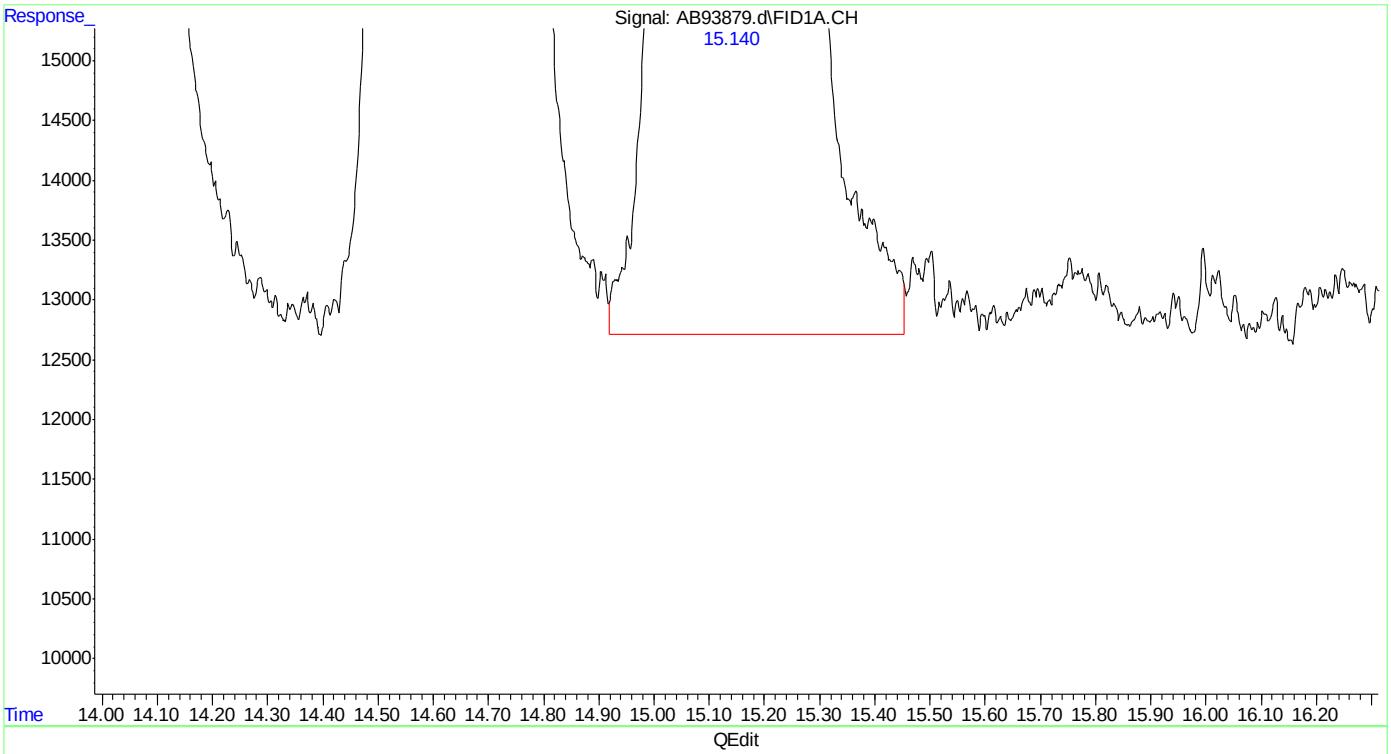
ab160427vph.M Wed Apr 27 13:02:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 12:31:00
Operator : danielf
Sample : bsp,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
15.140min 51.063 ppb m
response 22474886

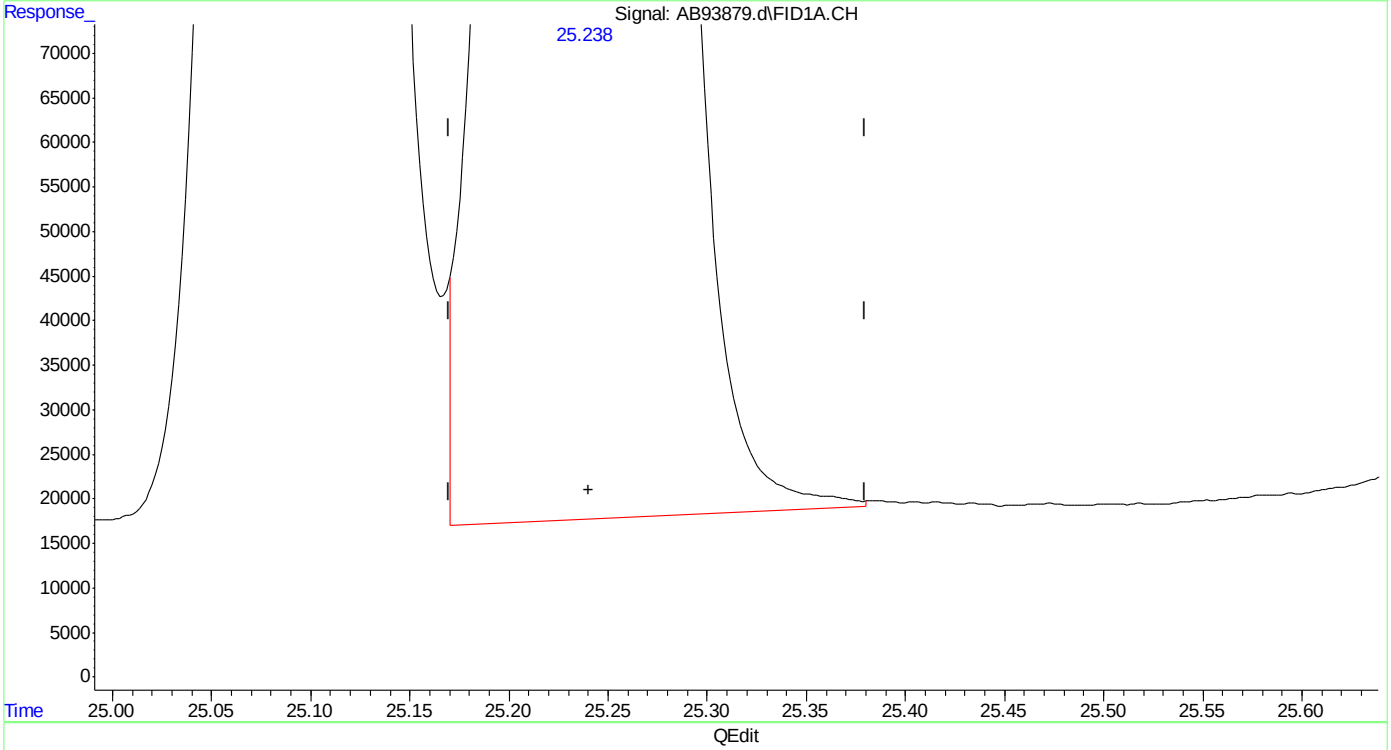
(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:02:24 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 12:31:00
Operator : danielf
Sample : bsp,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 47.570 ppb
response 29802479

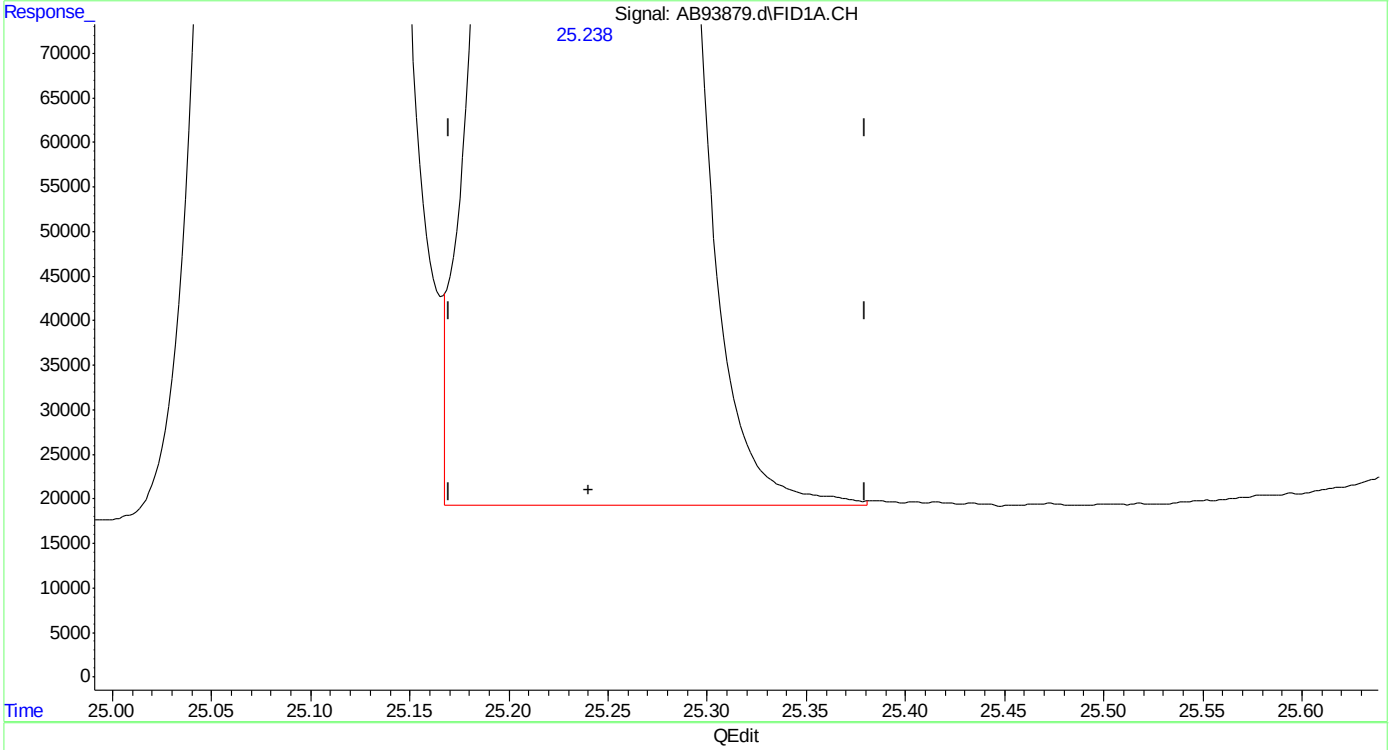
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 12:31:00
Operator : danielf
Sample : bsp,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 47.399 ppb m
response 29695672

(+) = Expected Retention Time

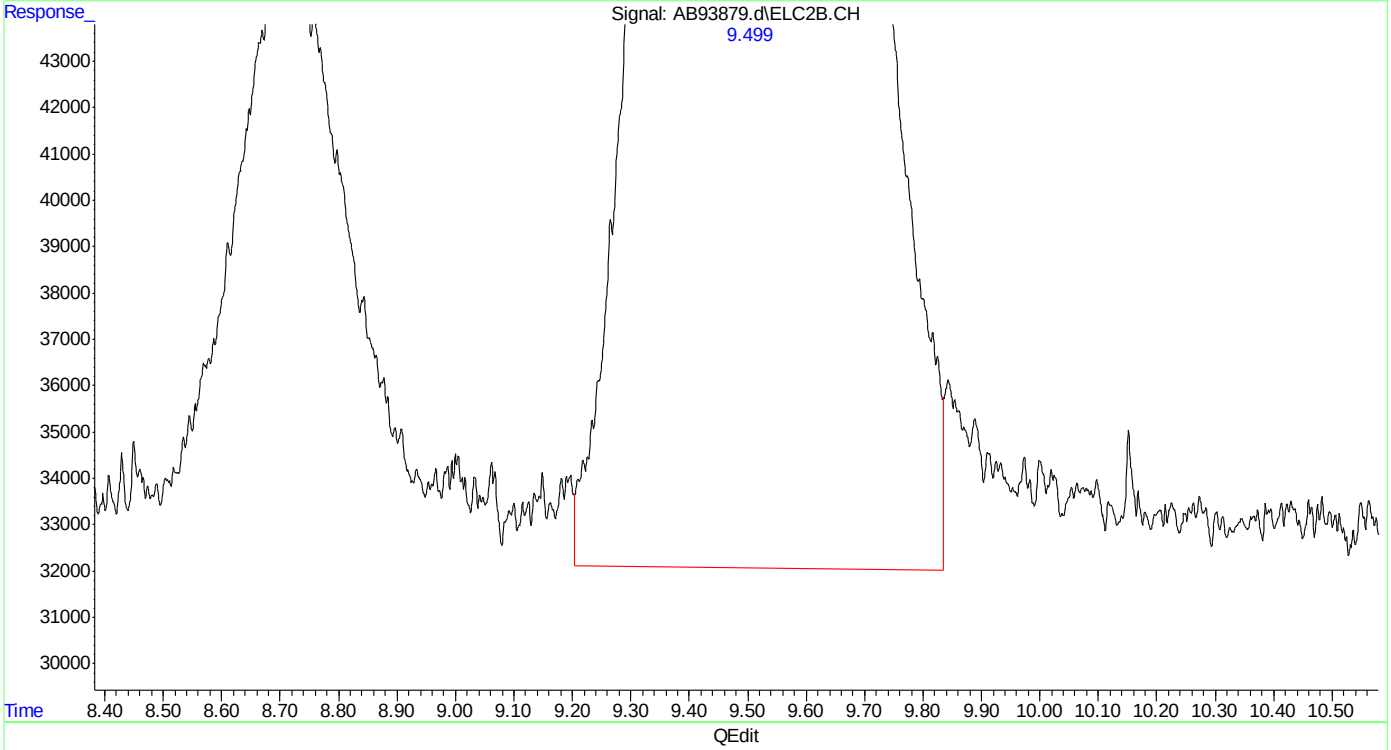
ab160427vph.M Wed Apr 27 13:02:53 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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

9.509min 49.115 ppb

response 24776225

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:02:57 2016

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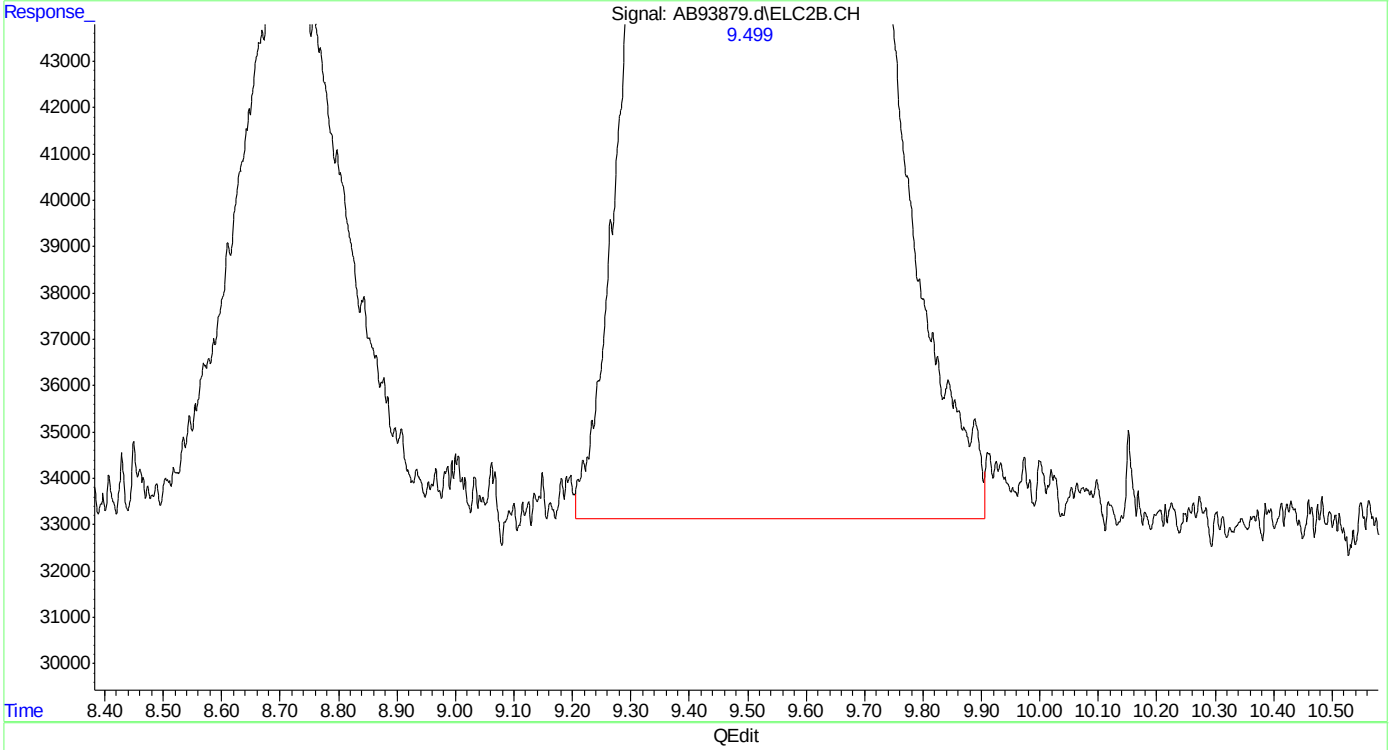
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 48.500 ppb m

response 24465814

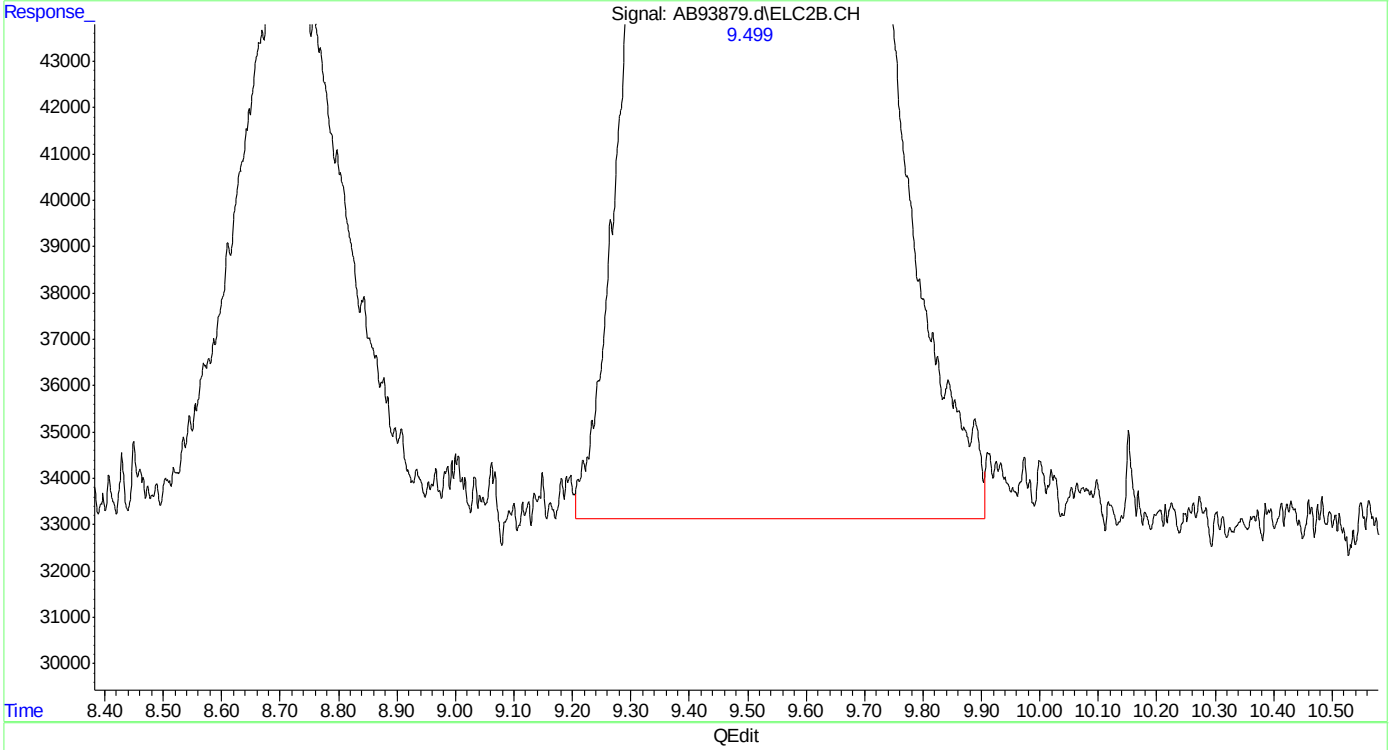
(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:03:05 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 48.500 ppb m

response 24465814

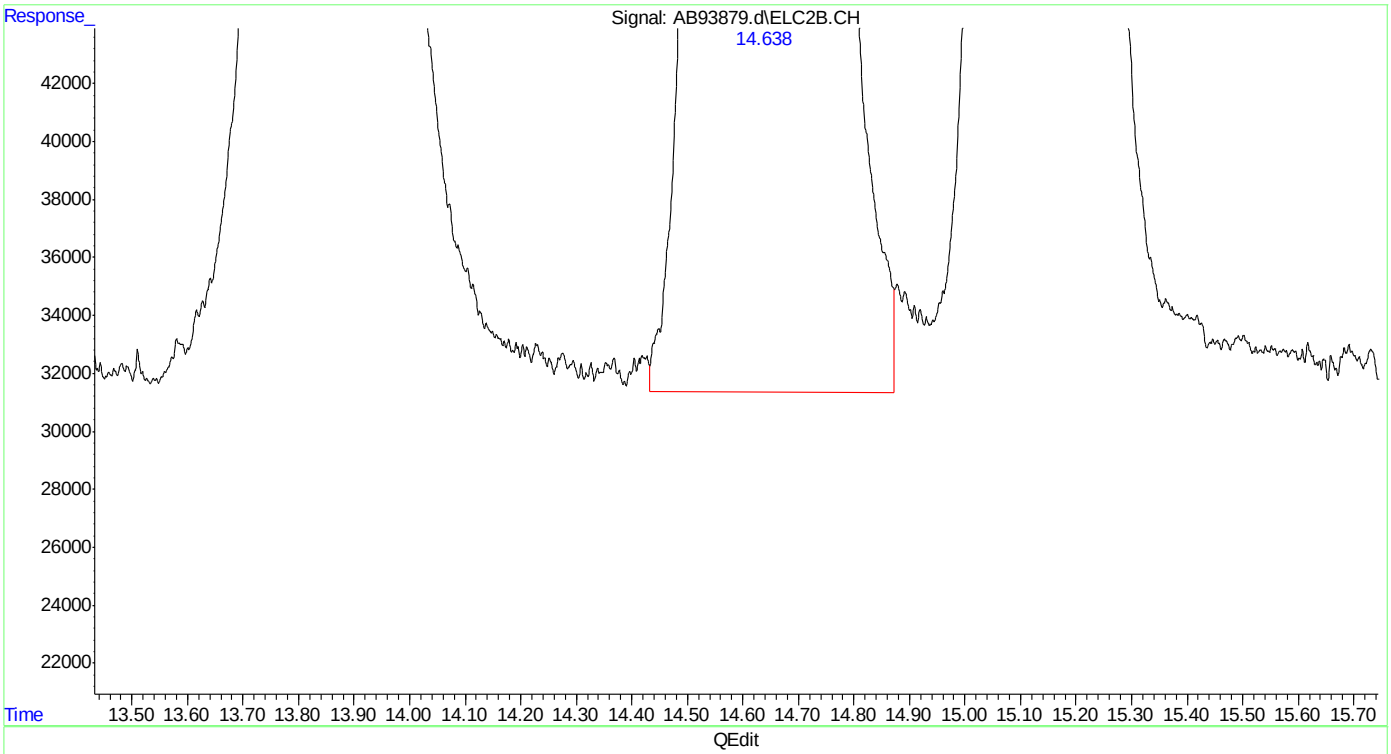
(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:03:20 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 48.133 ppb

response 62652230

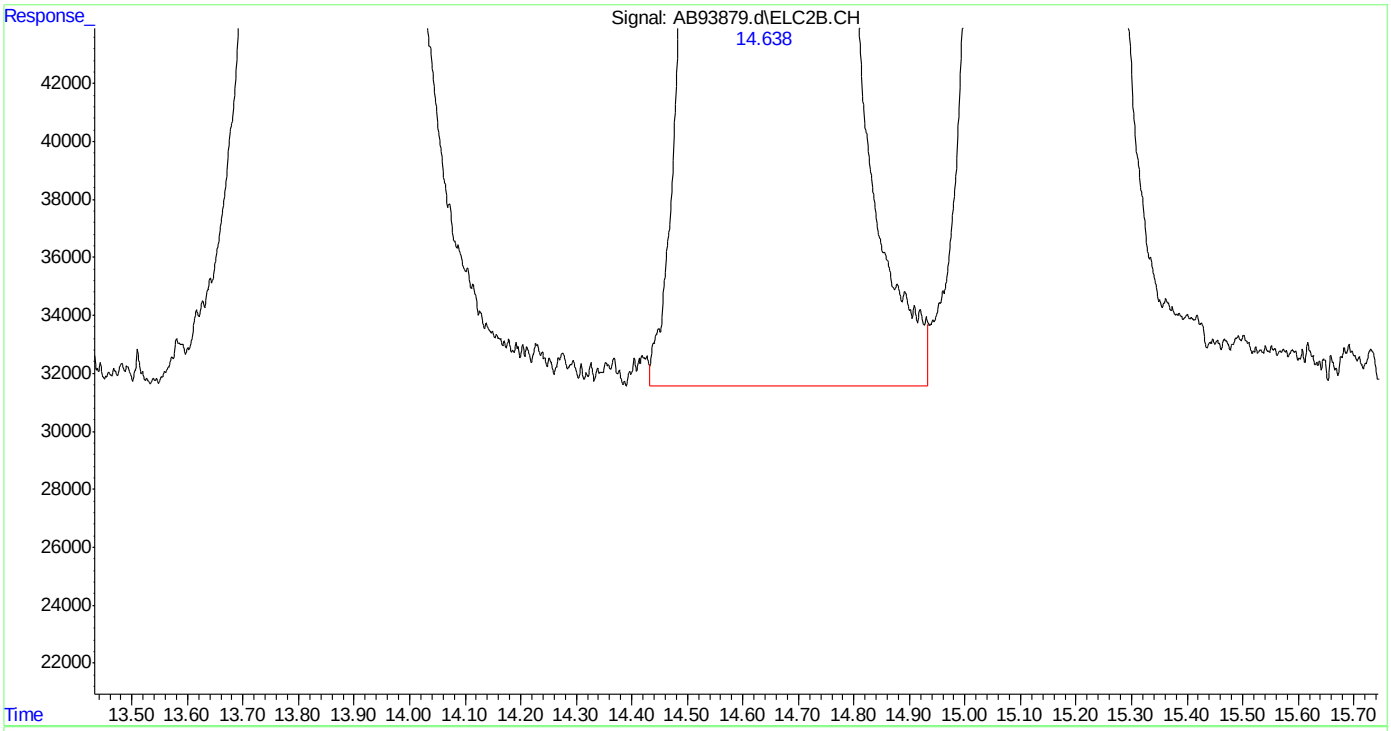
(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:03:27 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 48.168 ppb m

response 62697884

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:03:34 2016

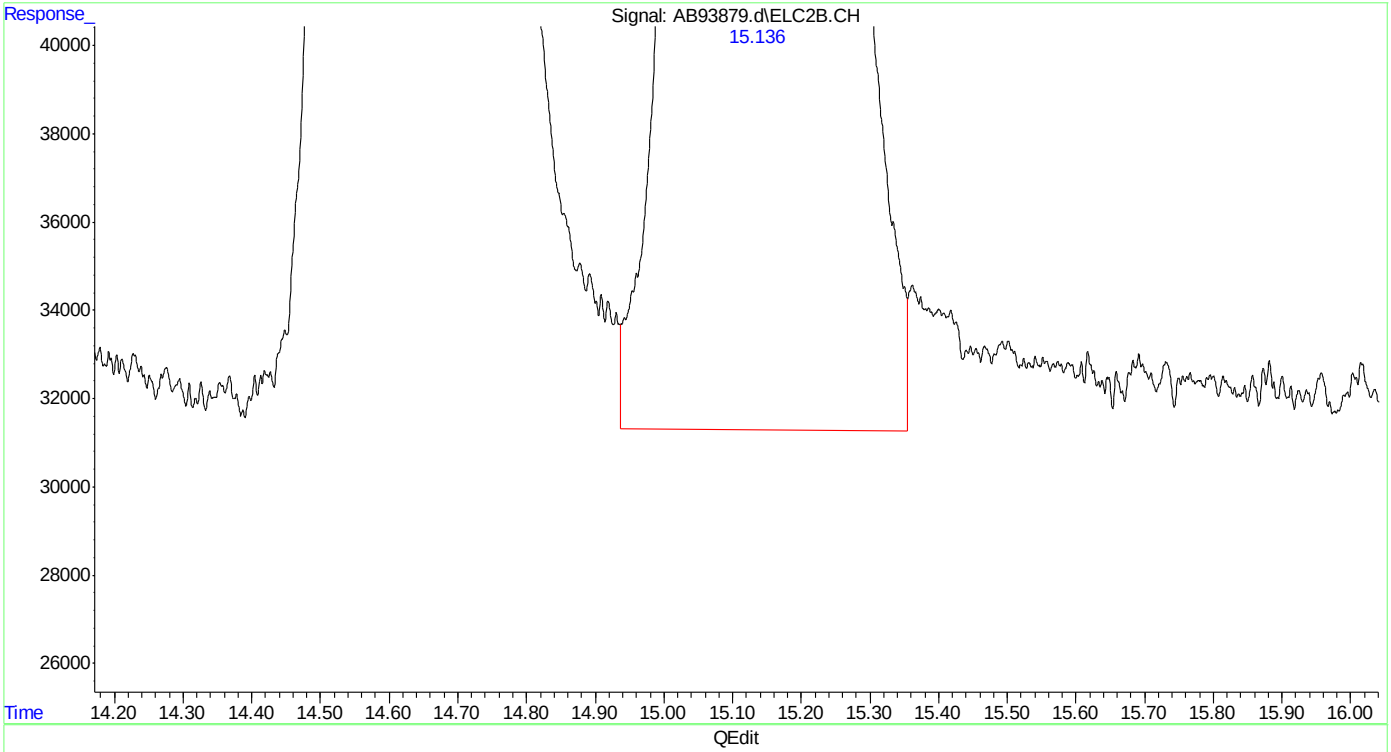
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 12:31:00
Operator : danielf
Sample : bsp,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
15.137min 50.337 ppb
response 42395808

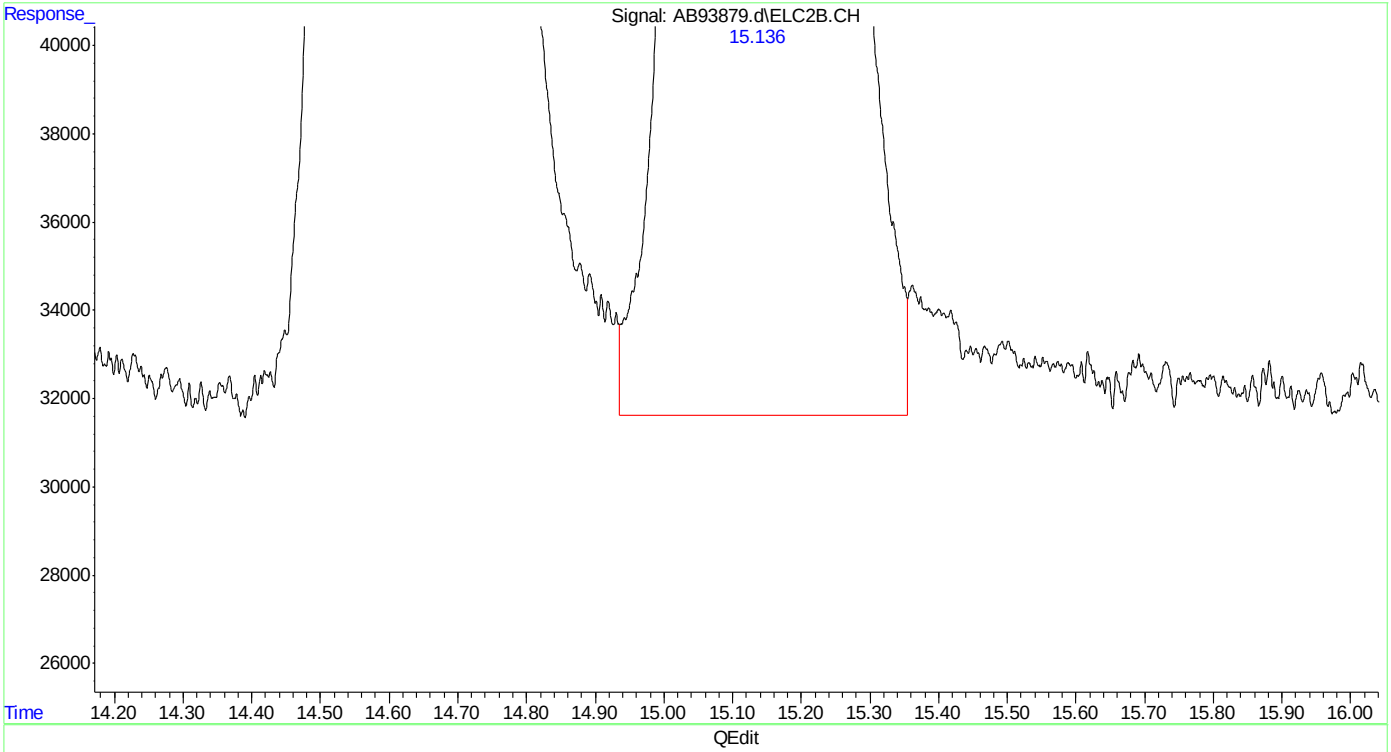
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 12:31:00
Operator : danielf
Sample : bsp,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :

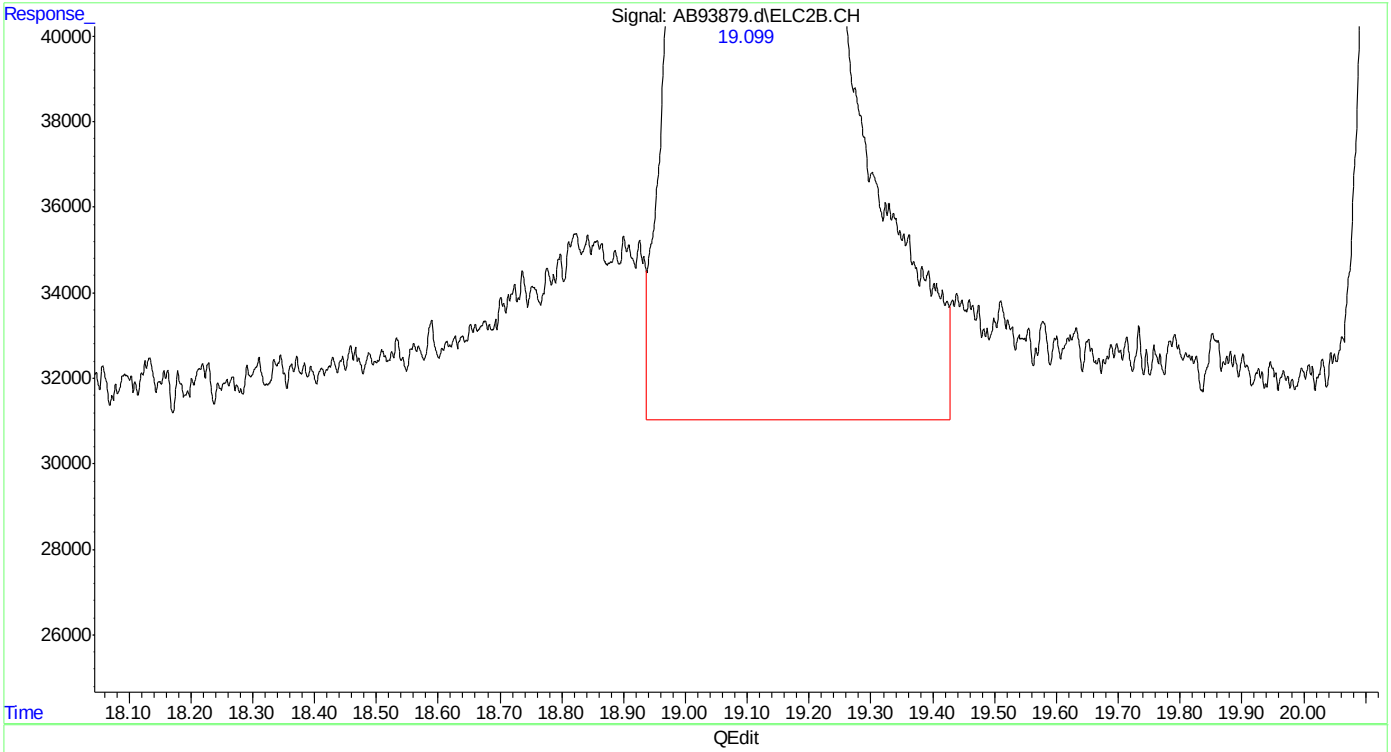


(16) fluorobenzene #2 (s)
15.136min 50.244 ppb m
response 42318001

(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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

19.098min 47.913 ppb

response 54777784

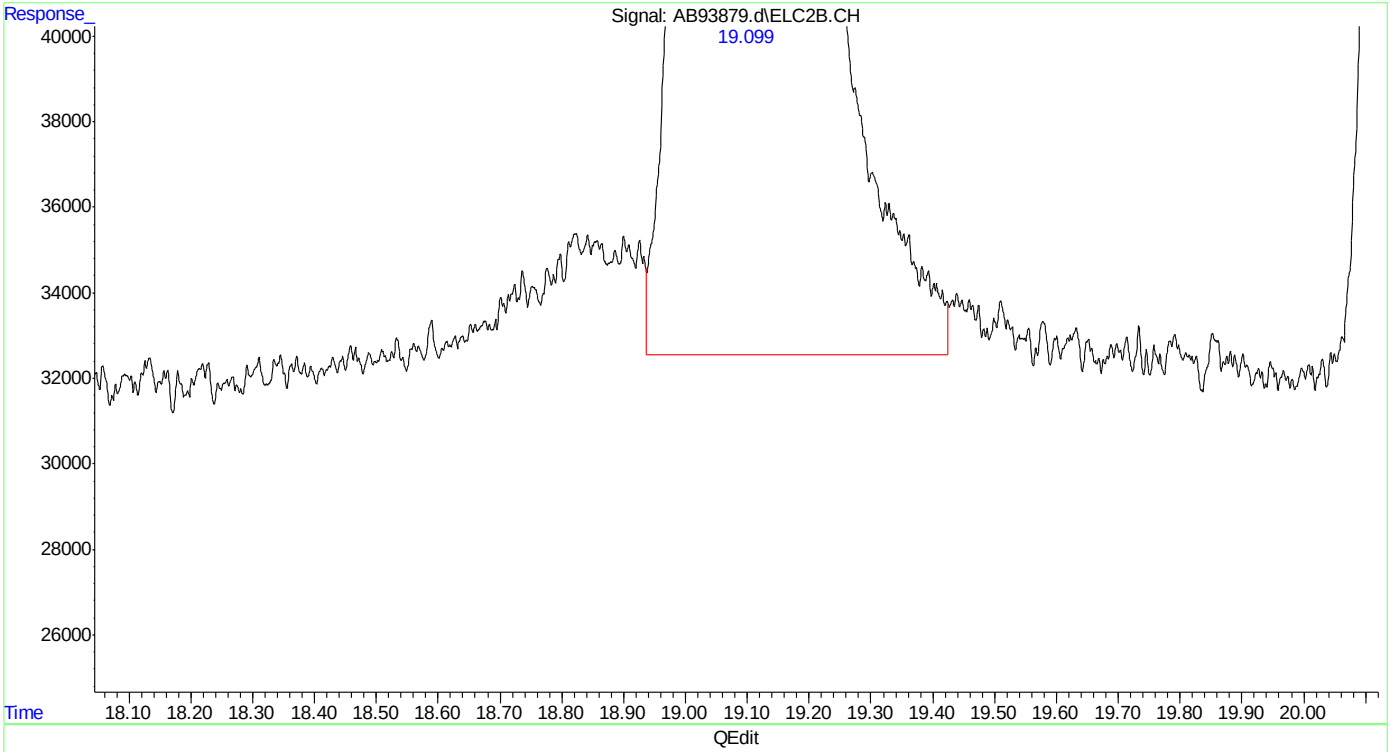
(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:03:52 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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

19.099min 47.521 ppb m

response 54329938

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:03:58 2016

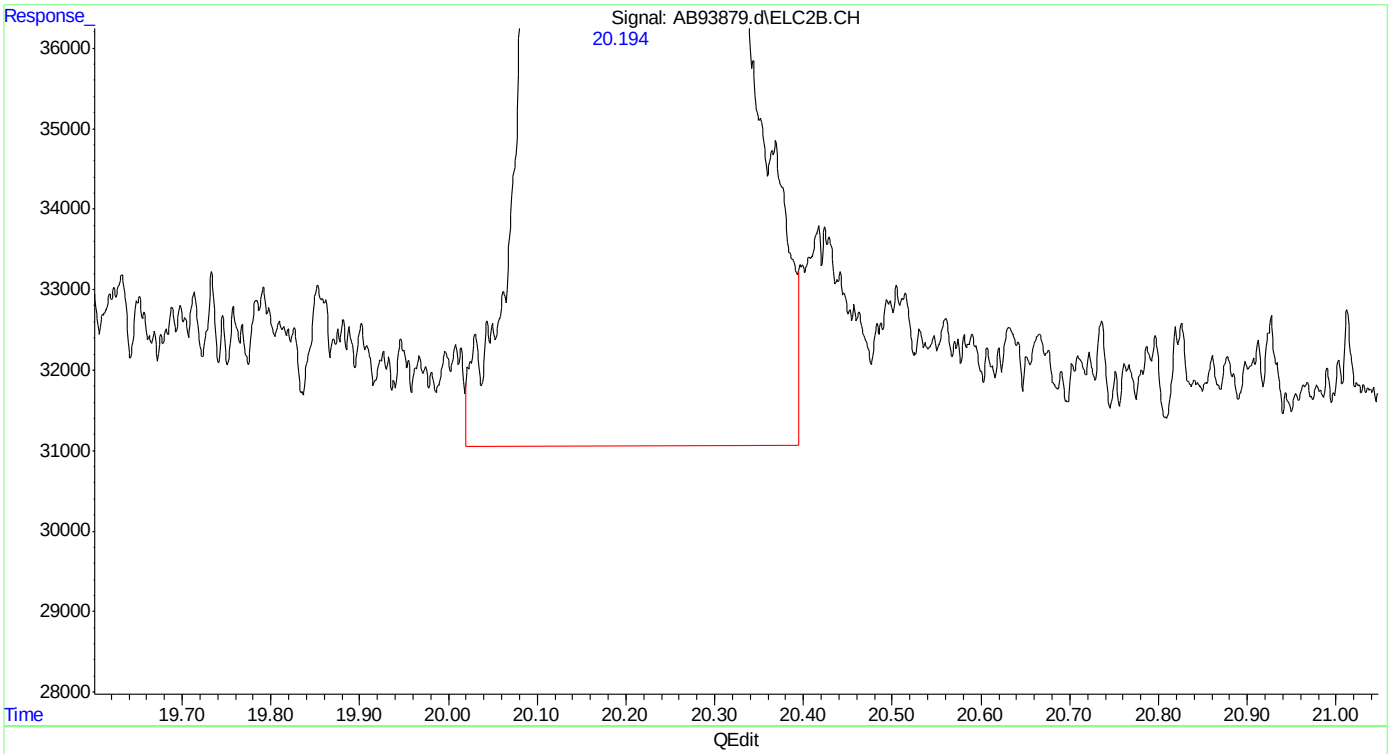
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 12:31:00
Operator : danielf
Sample : bsp,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
20.195min 47.797 ppb
response 22315244

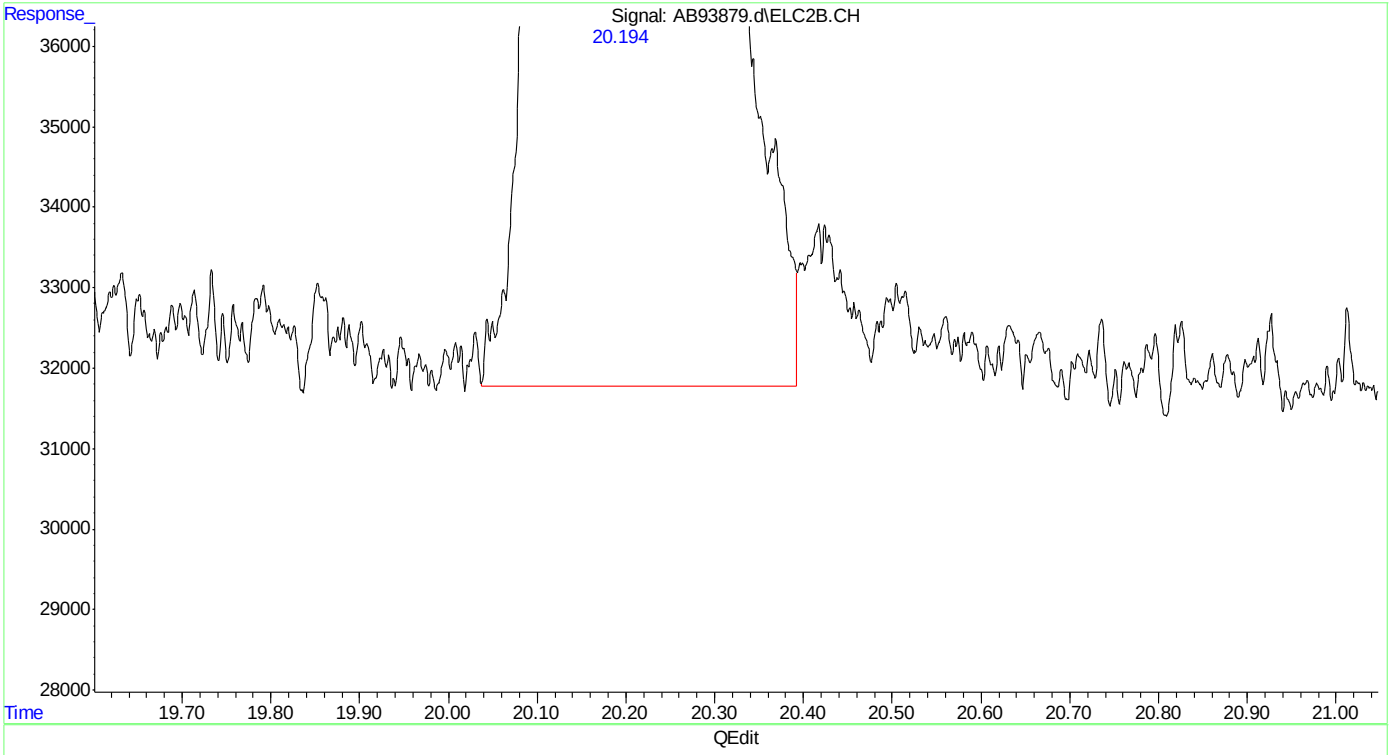
(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:04:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 12:31:00
Operator : danielf
Sample : bsp,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :

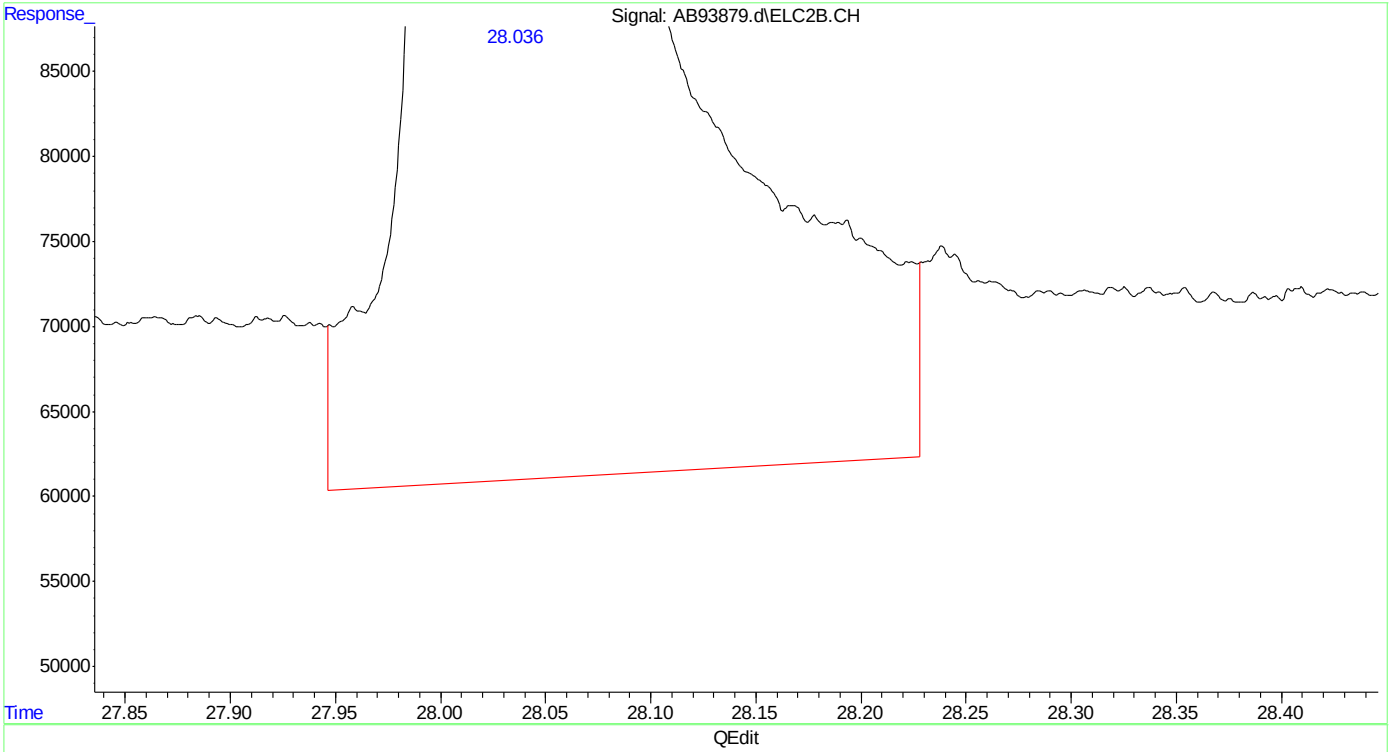


(18) 2,3,4-trifluorotoluene #2 (s)
20.194min 47.443 ppb m
response 22149920

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:04:11 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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

28.037min 46.996 ppb

response 33973812

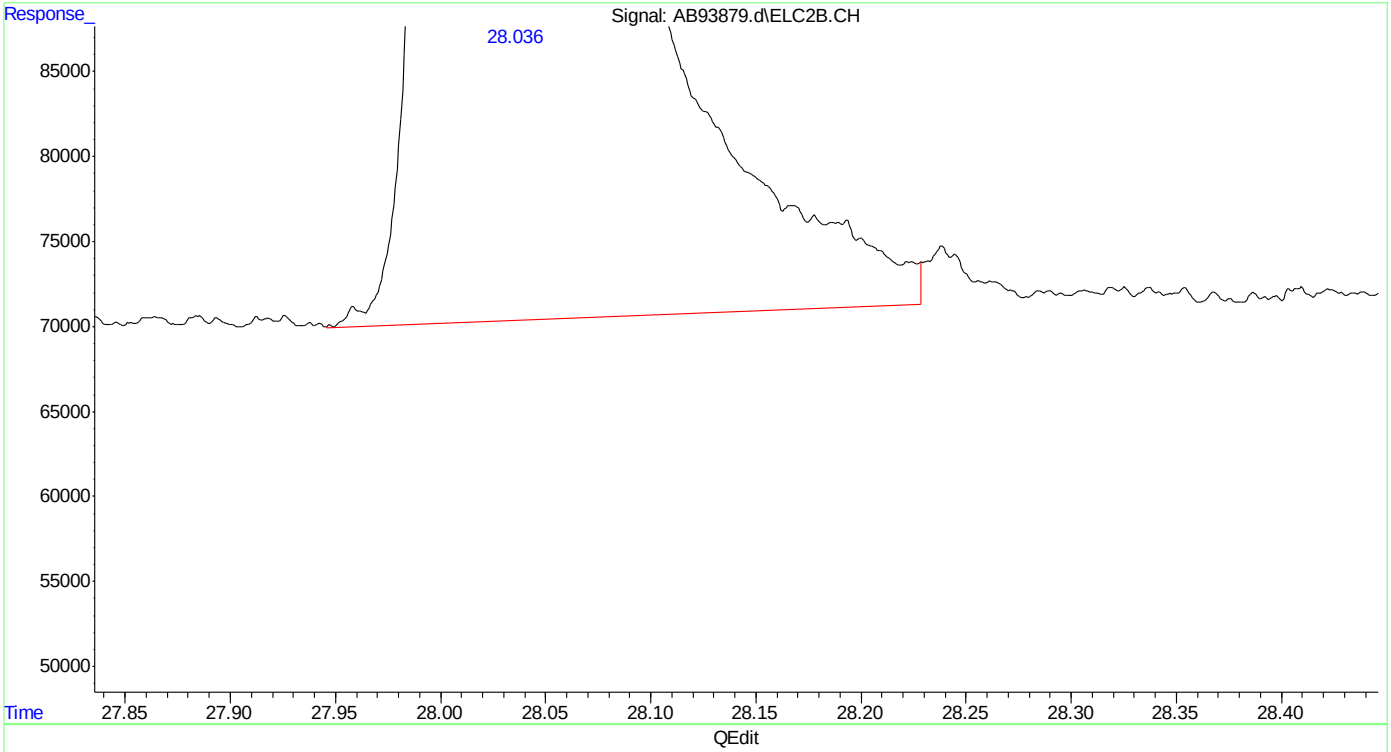
(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:04:23 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93879.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 12:31:00
Operator  : danielf
Sample    : bsp,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:01:46 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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

28.036min 44.829 ppb m

response 32407659

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:04:30 2016

SGS ACCUTEST MC45538

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
04/29/16 13:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,20 (Sig #1); bsd,s,vmavph,00 (Sig #2)
Misc : gc26185,gab5156,20,,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: Apr 27 13:43:30 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :

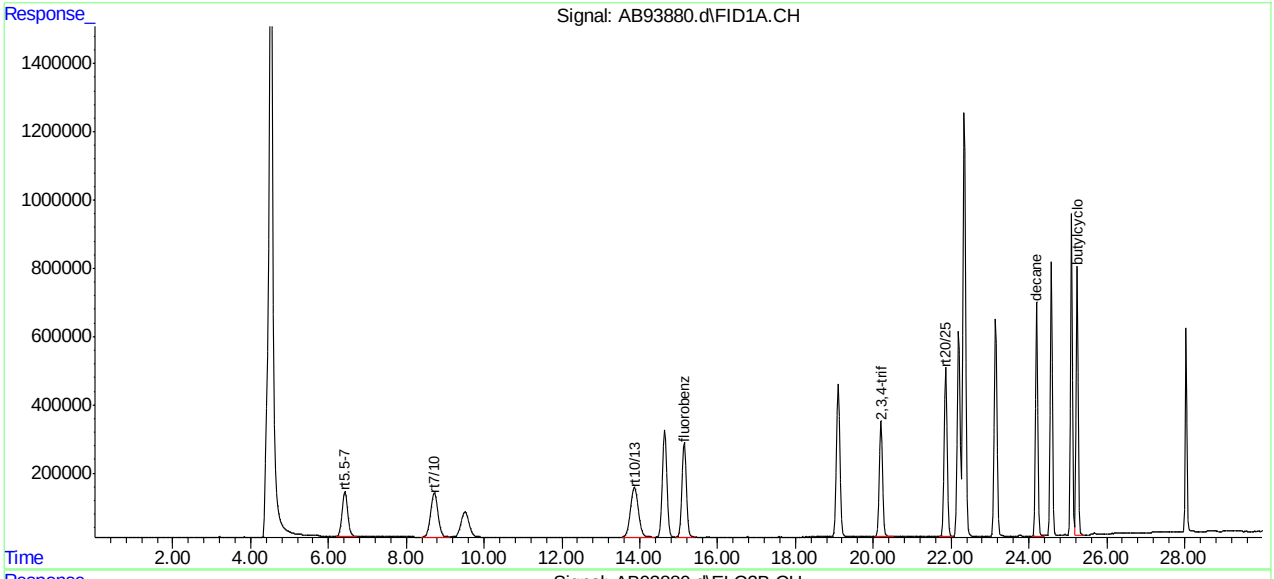
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.140	21847775	49.638	ppb	m
Spiked Amount 50.000		Recovery = 99.28%			
6) s 2,3,4-trifluorotoluene	20.196	19948846	48.661	ppb	m
Spiked Amount 50.000		Recovery = 97.32%			
16) s fluorobenzene #2	15.137	41308103	49.045	ppb	m
Spiked Amount 50.000		Recovery = 98.09%			
18) s 2,3,4-trifluorotoluen...	20.195	21723331	46.529	ppb	m
Spiked Amount 50.000		Recovery = 93.06%			
Target Compounds					
1) h rt5.5-7	6.420	12960144	32.279	ppb	m
2) h rt7/10	8.720	16903800	42.101	ppb	m
3) h rt10/13	13.870	21274189	52.986	ppb	m
8) h rt20/25	21.870	26944785	43.008	ppb	m
10) h decane	24.200	27927805	44.577	ppb	m
11) h butylcyclohexane	25.240	29389353	46.910	ppb	m
14) mtbe #2	9.505	24259745	48.091	ppb	m
15) benzene #2	14.635	61388111	47.162	ppb	m
17) toluene #2	19.096	53359916	46.673	ppb	m
19) ethylbenzene #2	22.193	44158537	47.695	ppb	
20) m,p-xylene #2	22.337	106157677	100.081	ppb	
21) o-xylene #2	23.142	44264386	47.385	ppb	
22) t 1,3,5-trimethylbenzen...	24.574	55535881	42.507	ppb	
23) 1,2,4-trimethylbenzen...	25.092	44489868	46.487	ppb	
24) naphthalene #2	28.036	33498518	46.338	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	44535998	46.486	ppb	m

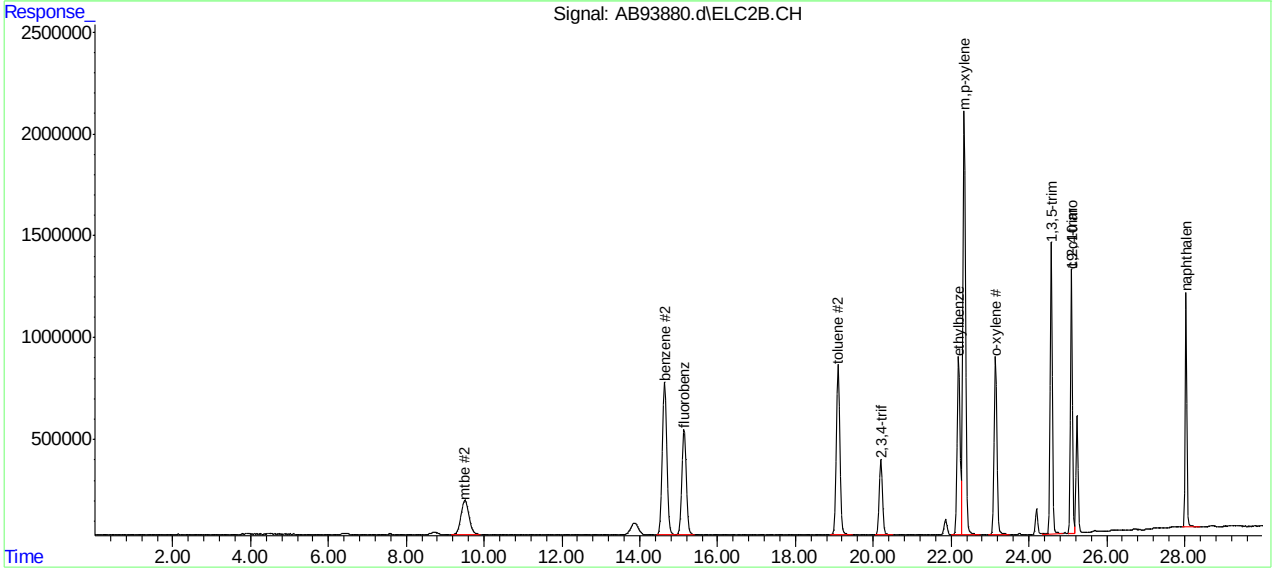
(f)=RT Delta > 1/2 Window (m)=manual int.

SGS ACCUTEST MC45538

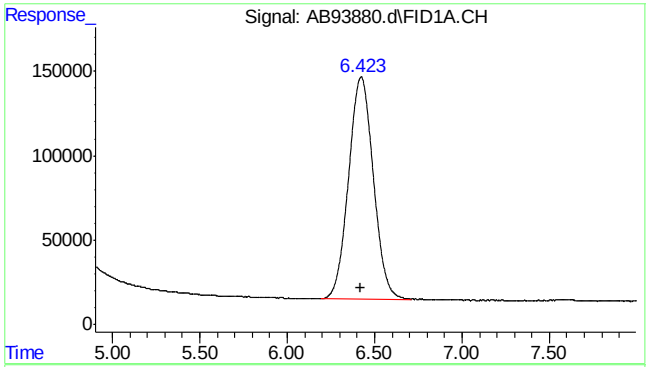
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 13:09:22
Operator  : danielf
Sample    : bsd,s,vmavph,20 (Sig #1); bsd,s,vmavph,00 (Sig #2)
Misc      : gc26185,gab5156,20,,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: Apr 27 13:43:30 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :
```



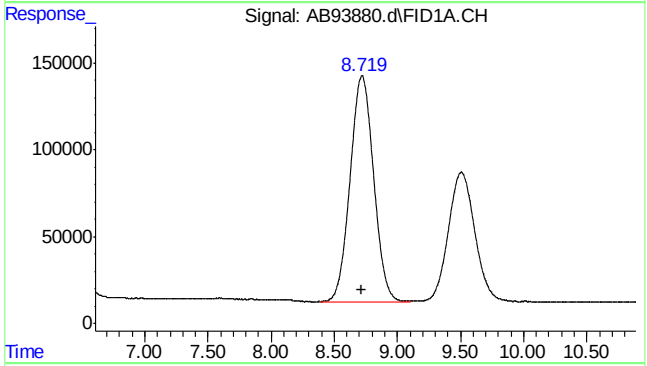


SGS ACCUTEST MC45538



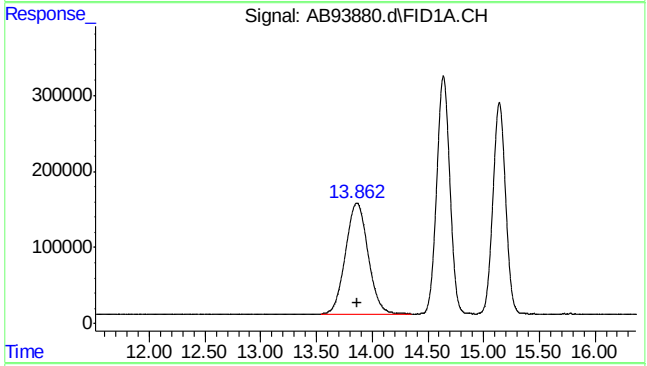
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 12960144
Conc: 32.28 ppb m



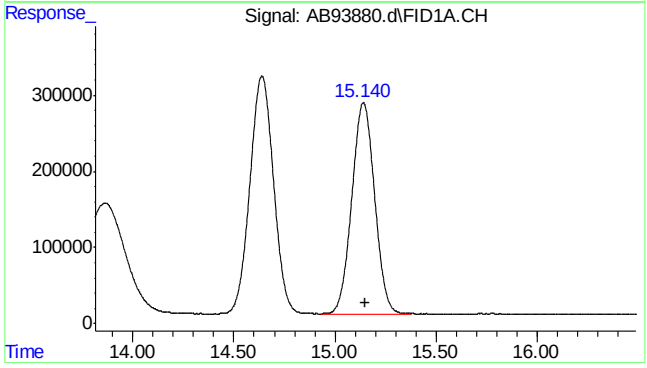
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 16903800
Conc: 42.10 ppb m



#3 rt10/13

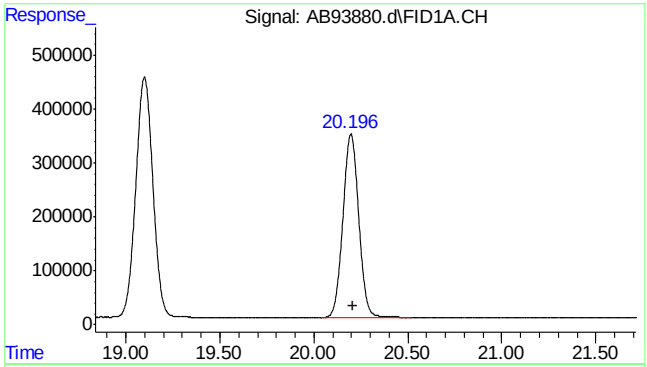
R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21274189
Conc: 52.99 ppb m



#4 fluorobenzene

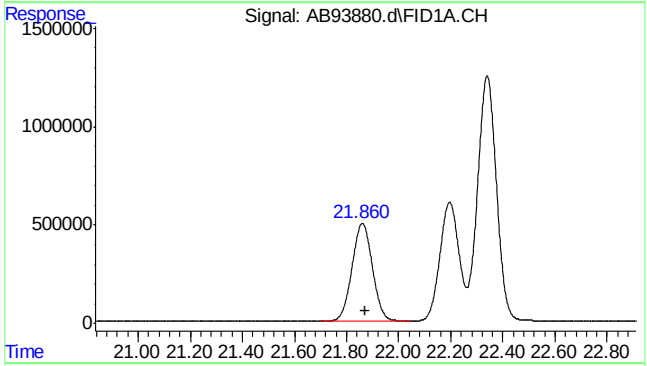
R.T.: 15.140 min
Delta R.T.: -0.011 min
Response: 21847775
Conc: 49.64 ppb m

SGS ACCUTEST MC45538



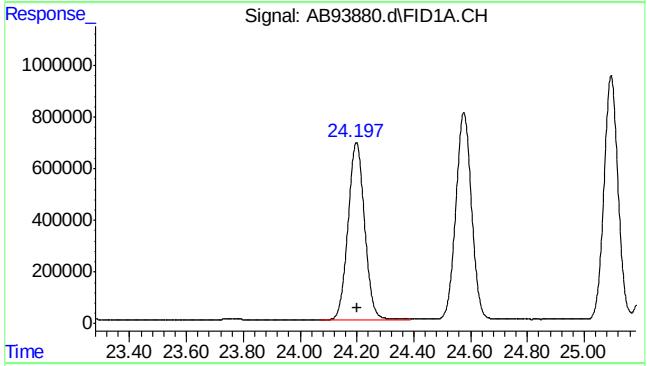
#6 2,3,4-trifluorotoluene

R.T.: 20.196 min
Delta R.T.: -0.009 min
Response: 19948846
Conc: 48.66 ppb m



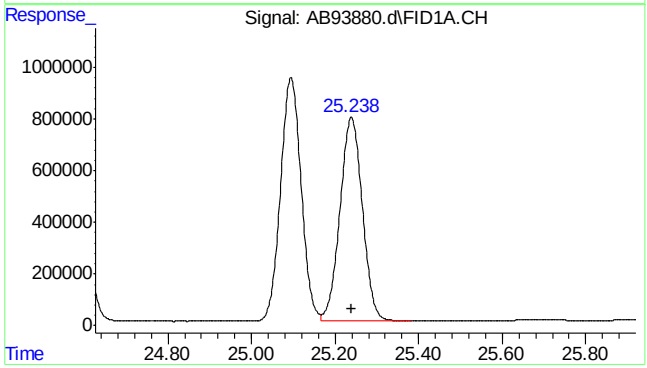
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26944785
Conc: 43.01 ppb m



#10 decane

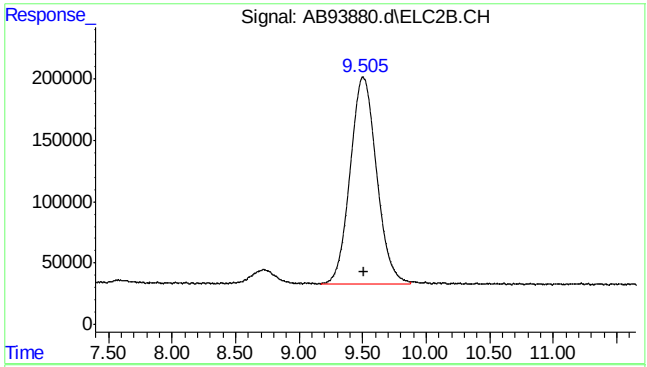
R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 27927805
Conc: 44.58 ppb m



#11 butylcyclohexane

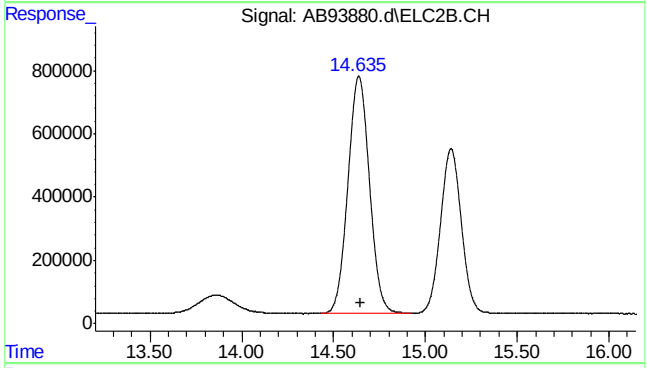
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29389353
Conc: 46.91 ppb m

SGS ACCUTEST MC45538



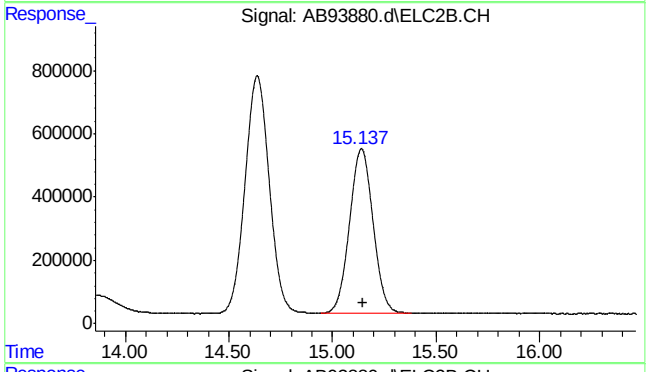
#14 mtbe #2

R.T.: 9.505 min
Delta R.T.: -0.006 min
Response: 24259745
Conc: 48.09 ppb m



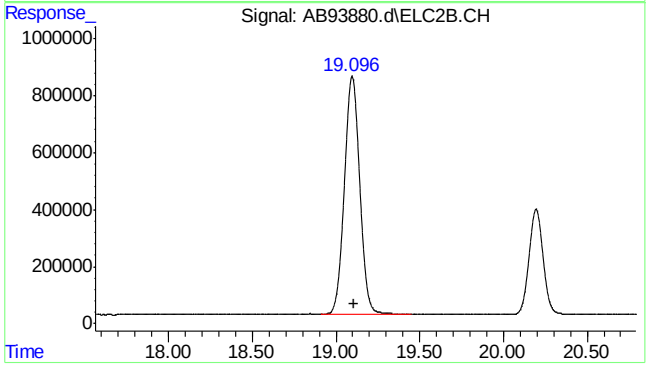
#15 benzene #2

R.T.: 14.635 min
Delta R.T.: -0.011 min
Response: 61388111
Conc: 47.16 ppb m



#16 fluorobenzene #2

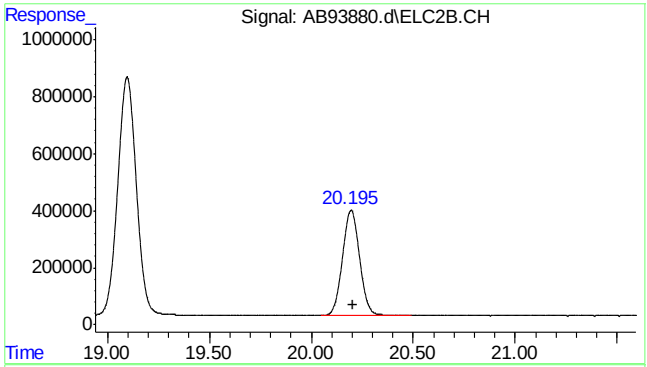
R.T.: 15.137 min
Delta R.T.: -0.011 min
Response: 41308103
Conc: 49.05 ppb m



#17 toluene #2

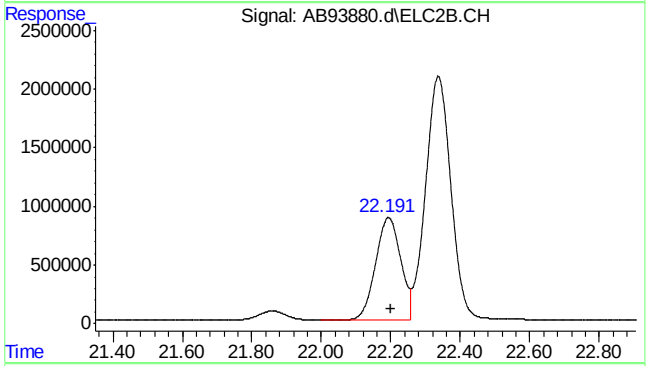
R.T.: 19.096 min
Delta R.T.: -0.010 min
Response: 53359916
Conc: 46.67 ppb m

SGS ACCUTEST MC45538



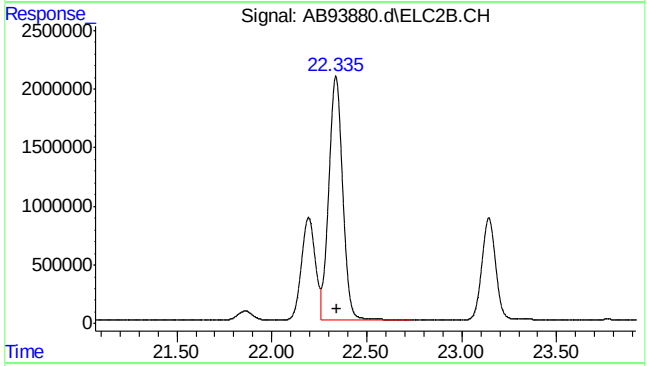
#18 2,3,4-trifluorotoluene #2

R.T.: 20.195 min
Delta R.T.: -0.009 min
Response: 21723331
Conc: 46.53 ppb m



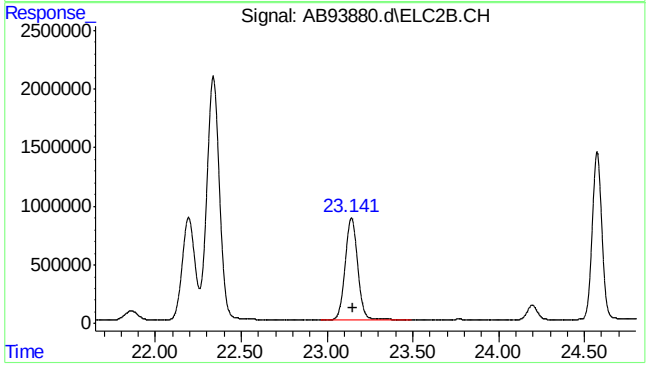
#19 ethylbenzene #2

R.T.: 22.193 min
Delta R.T.: -0.008 min
Response: 44158537
Conc: 47.70 ppb



#20 m,p-xylene #2

R.T.: 22.337 min
Delta R.T.: -0.007 min
Response: 106157677
Conc: 100.08 ppb



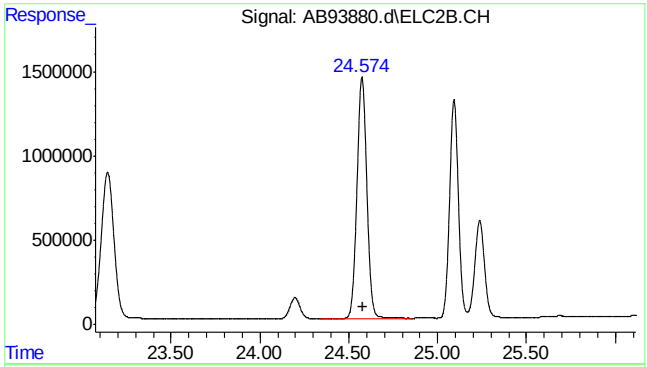
#21 o-xylene #2

R.T.: 23.142 min
Delta R.T.: -0.008 min
Response: 44264386
Conc: 47.39 ppb

7.3.2

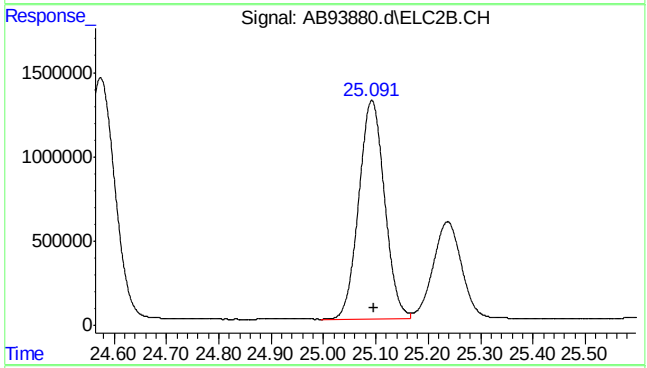
7

SGS ACCUTEST MC45538



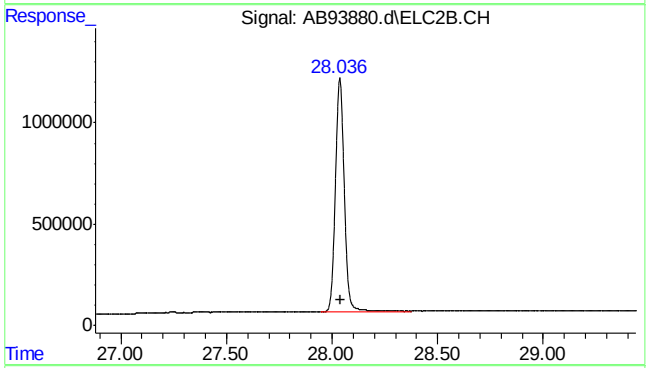
#22 1,3,5-trimethylbenzene #2

R.T.: 24.574 min
Delta R.T.: -0.005 min
Response: 55535881
Conc: 42.51 ppb



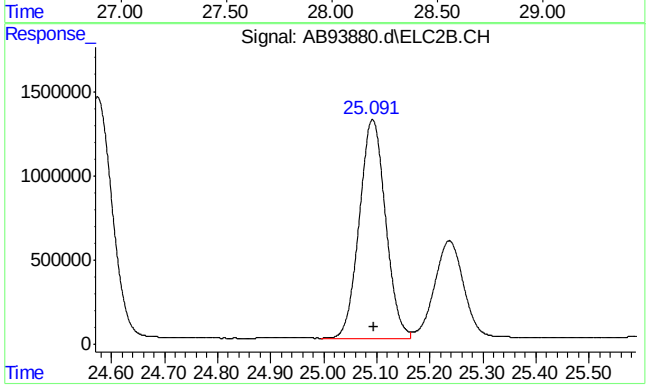
#23 1,2,4-trimethylbenzene #2

R.T.: 25.092 min
Delta R.T.: -0.004 min
Response: 44489868
Conc: 46.49 ppb



#24 naphthalene #2

R.T.: 28.036 min
Delta R.T.: -0.002 min
Response: 33498518
Conc: 46.34 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 44535998
Conc: 46.49 ppb m

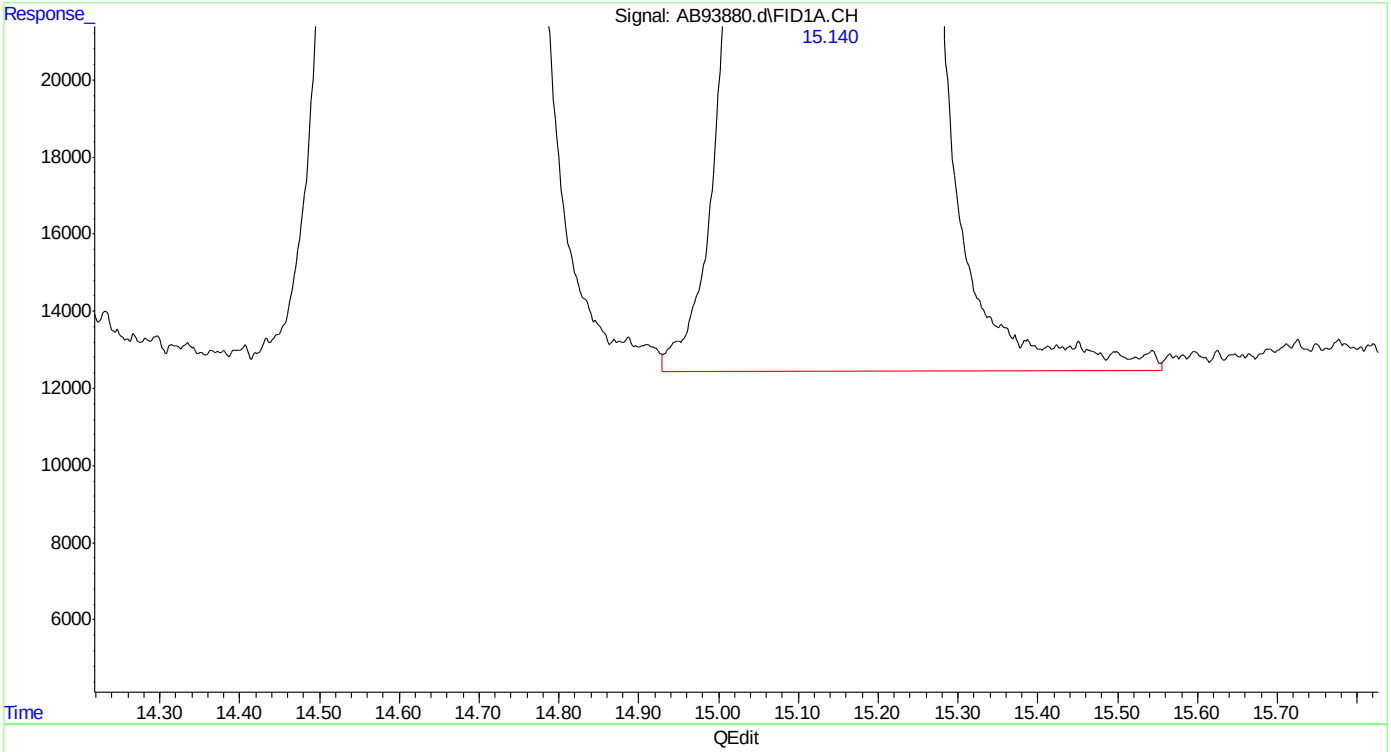
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :



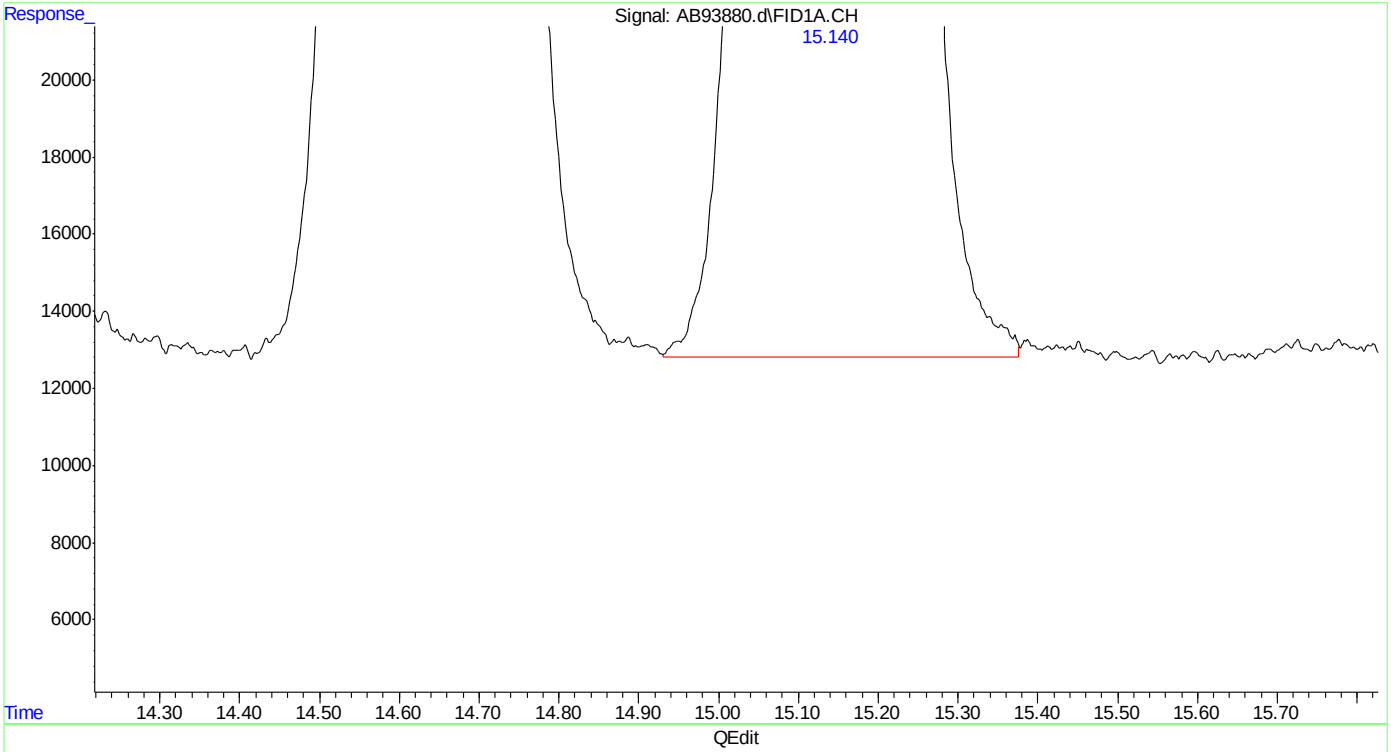
(4) fluorobenzene (s)
15.141min 49.980 ppb
response 21998070

(+) = Expected Retention Time

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 13:09:22
Operator  : danielf
Sample    : bsd,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)

15.140min 49.638 ppb m

response 21847775

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:40:50 2016

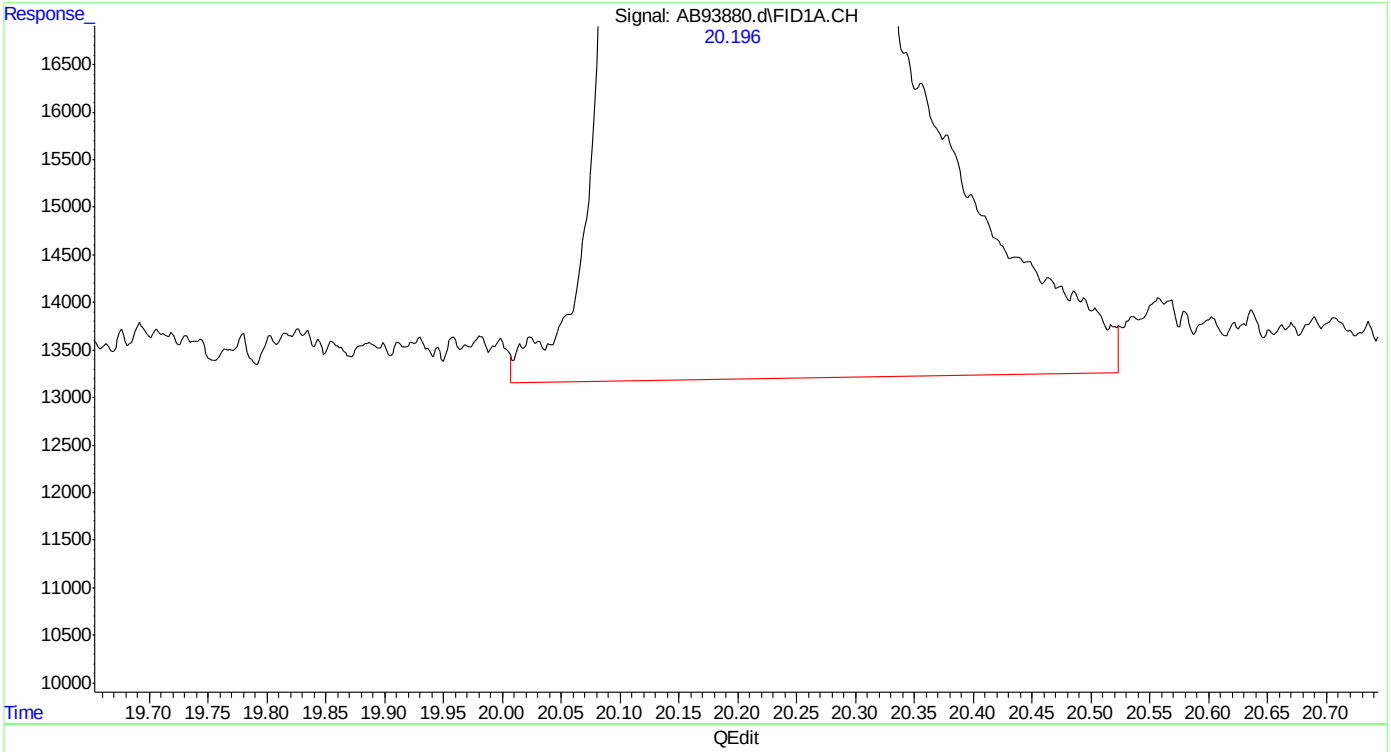
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
20.197min 48.860 ppb
response 20030459

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:40:57 2016

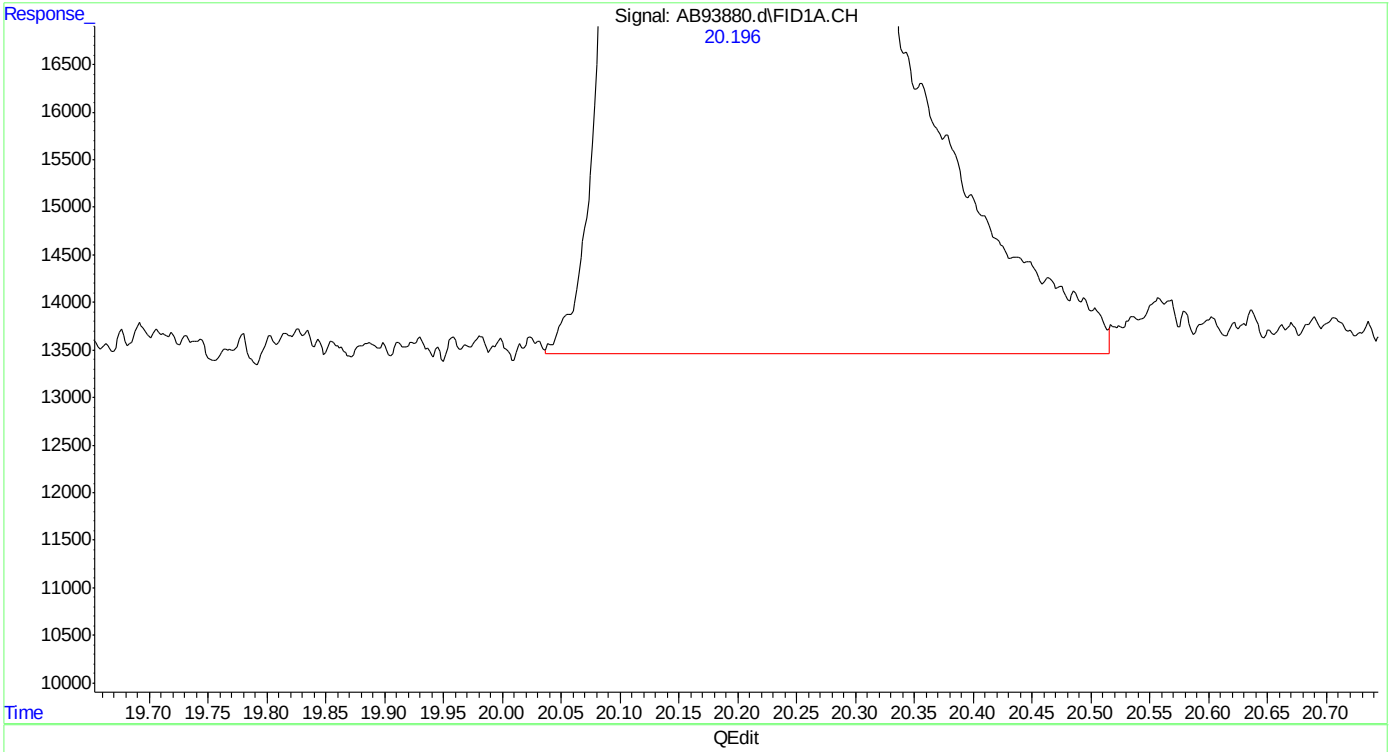
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :



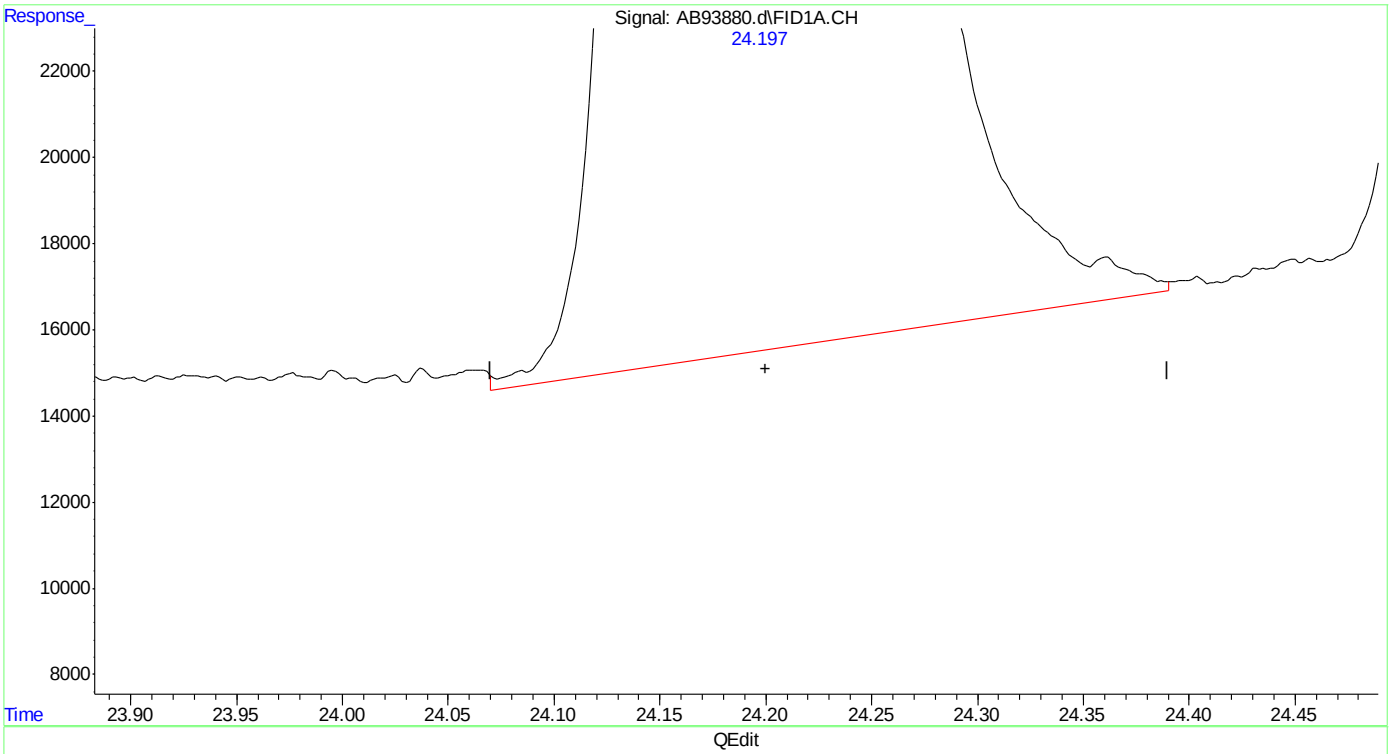
(6) 2,3,4-trifluorotoluene (s)
20.196min 48.661 ppb m
response 19948846

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:41:03 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 13:09:22
Operator  : danielf
Sample    : bsd,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 44.308 ppb

response 27758861

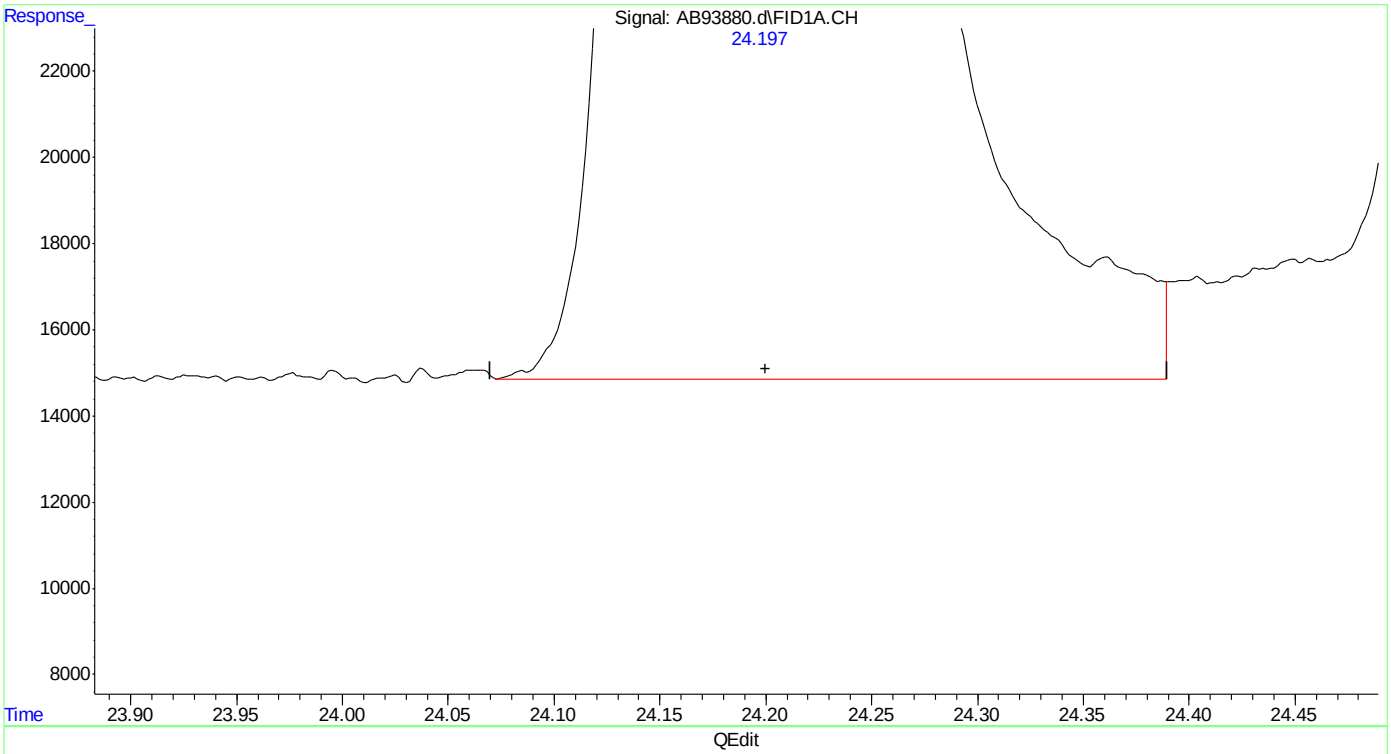
(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:41:16 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 13:09:22
Operator  : danielf
Sample    : bsd,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 44.577 ppb m

response 27927805

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:41:22 2016

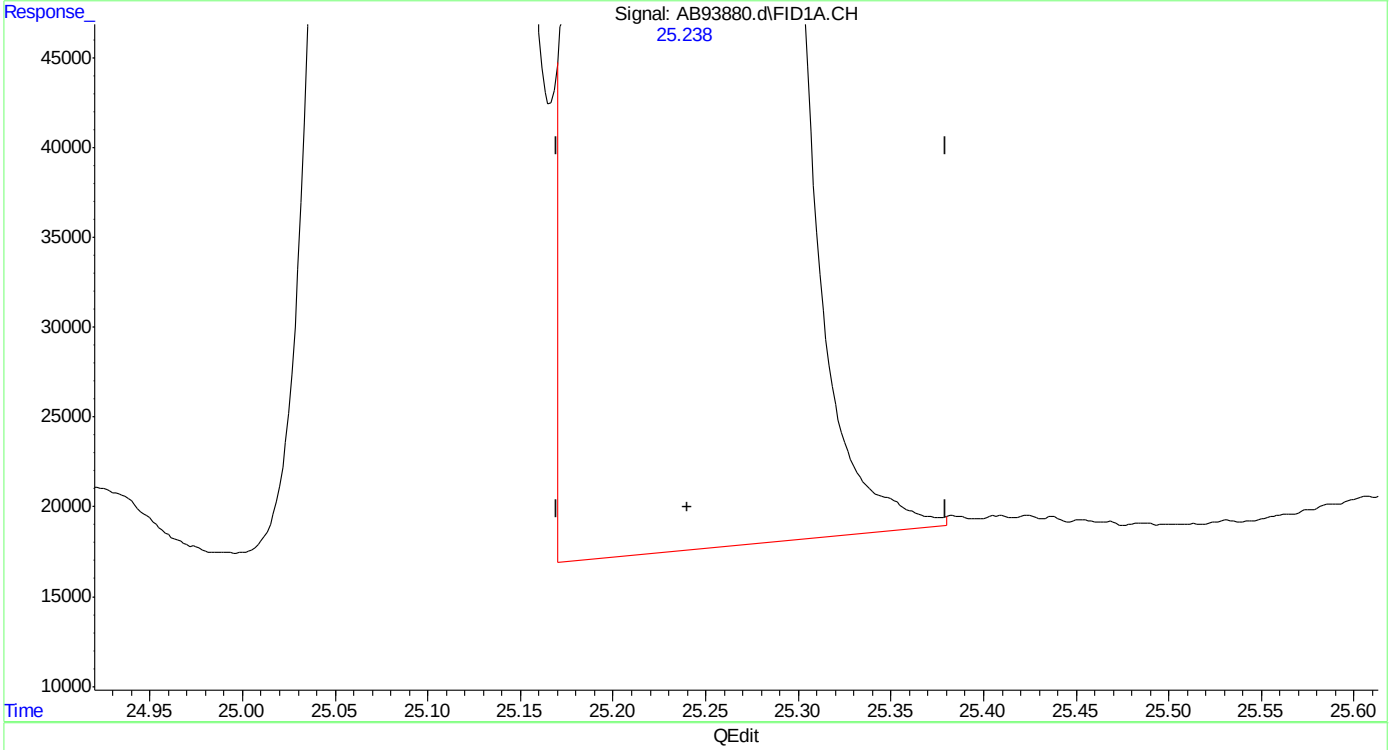
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 47.019 ppb
response 29457818

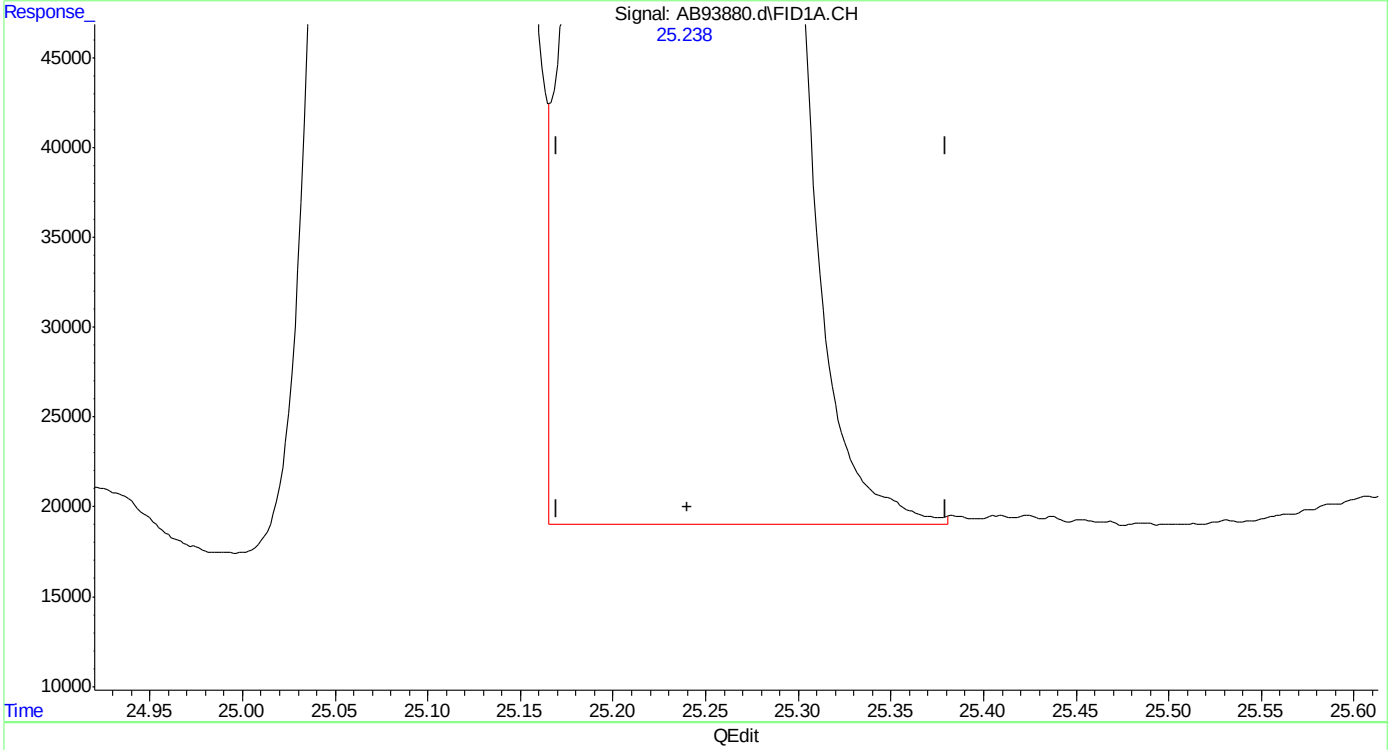
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 46.910 ppb m
response 29389353

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:41:42 2016

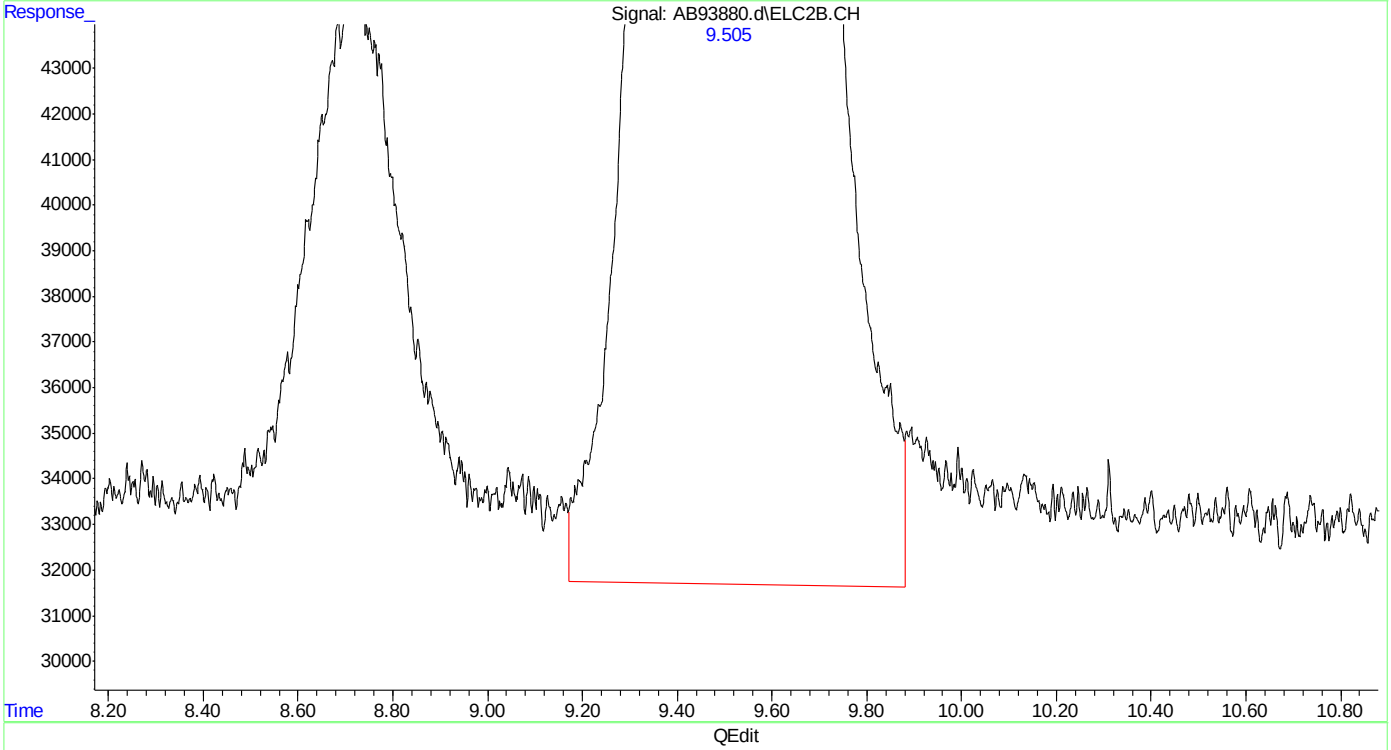
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
9.505min 49.375 ppb
response 24907446

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:41:46 2016

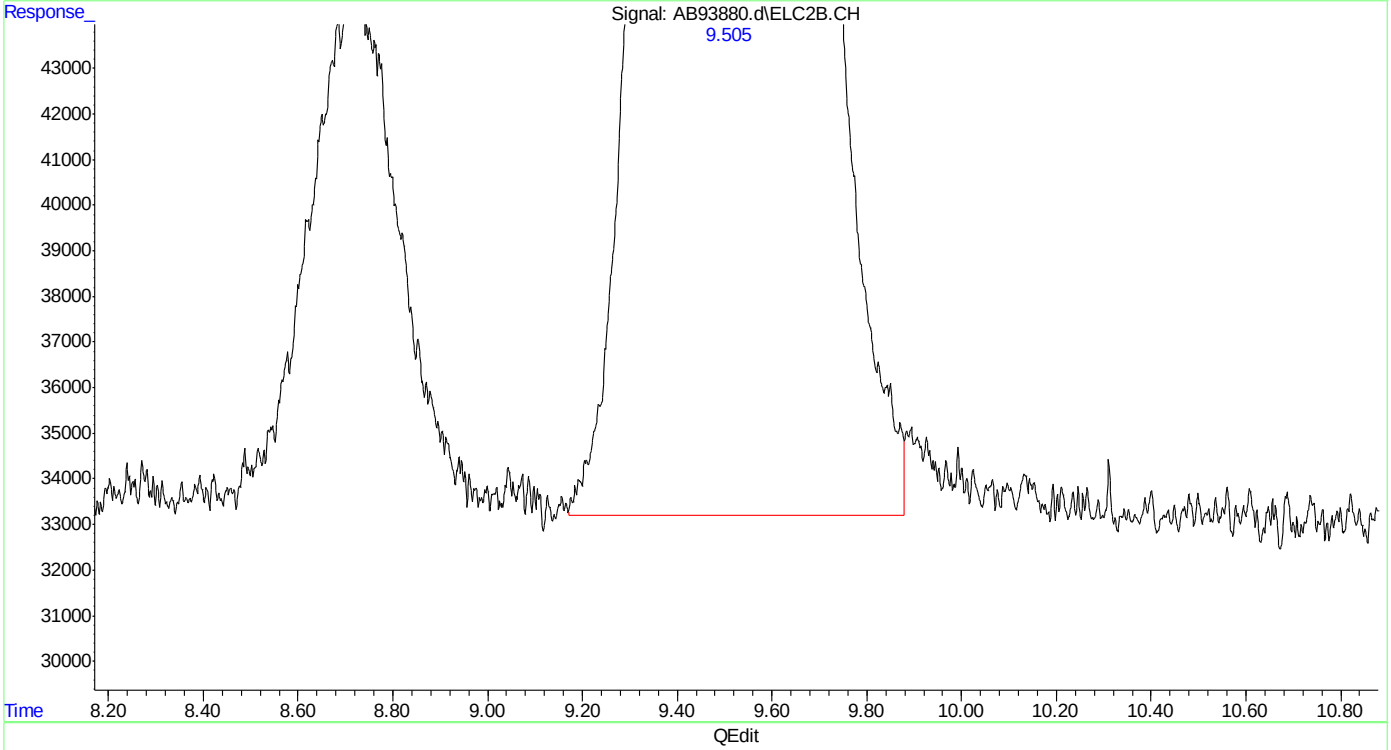
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
9.505min 48.091 ppb m
response 24259745

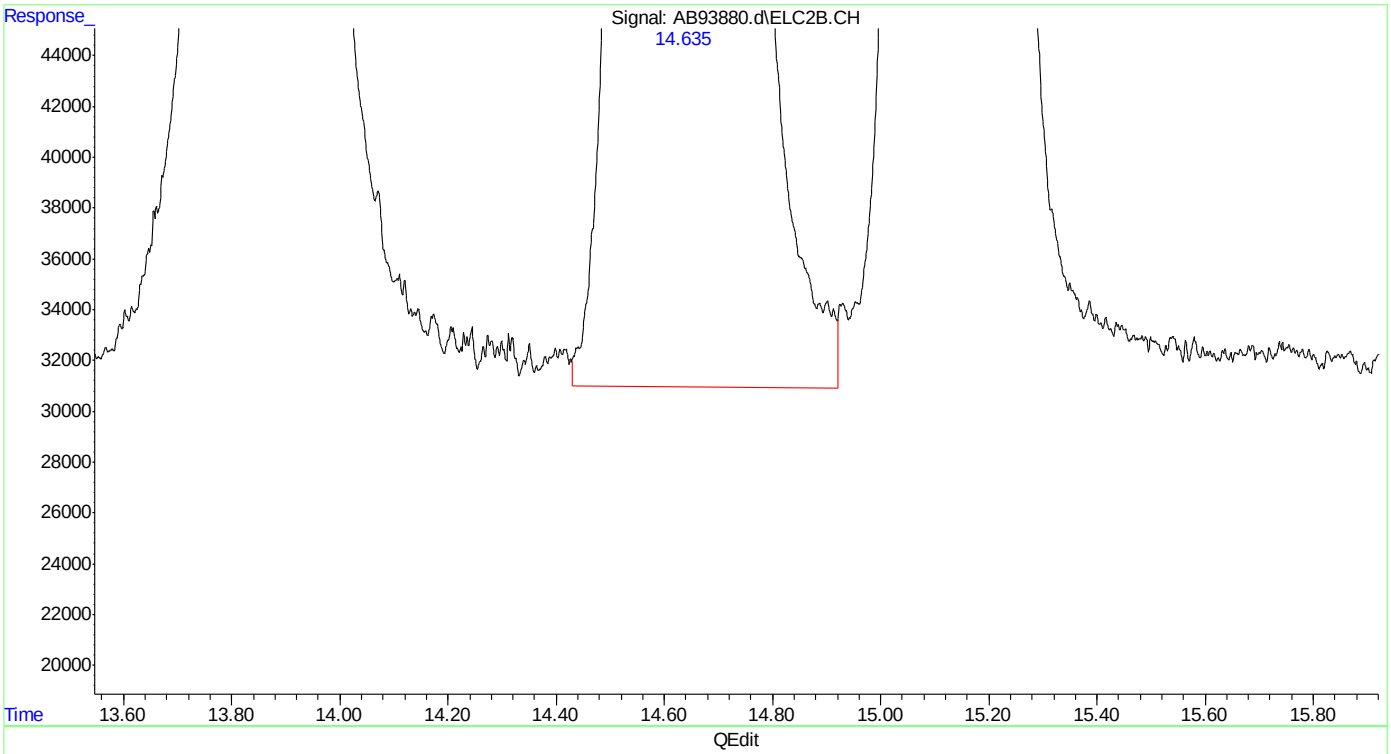
(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:42:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :

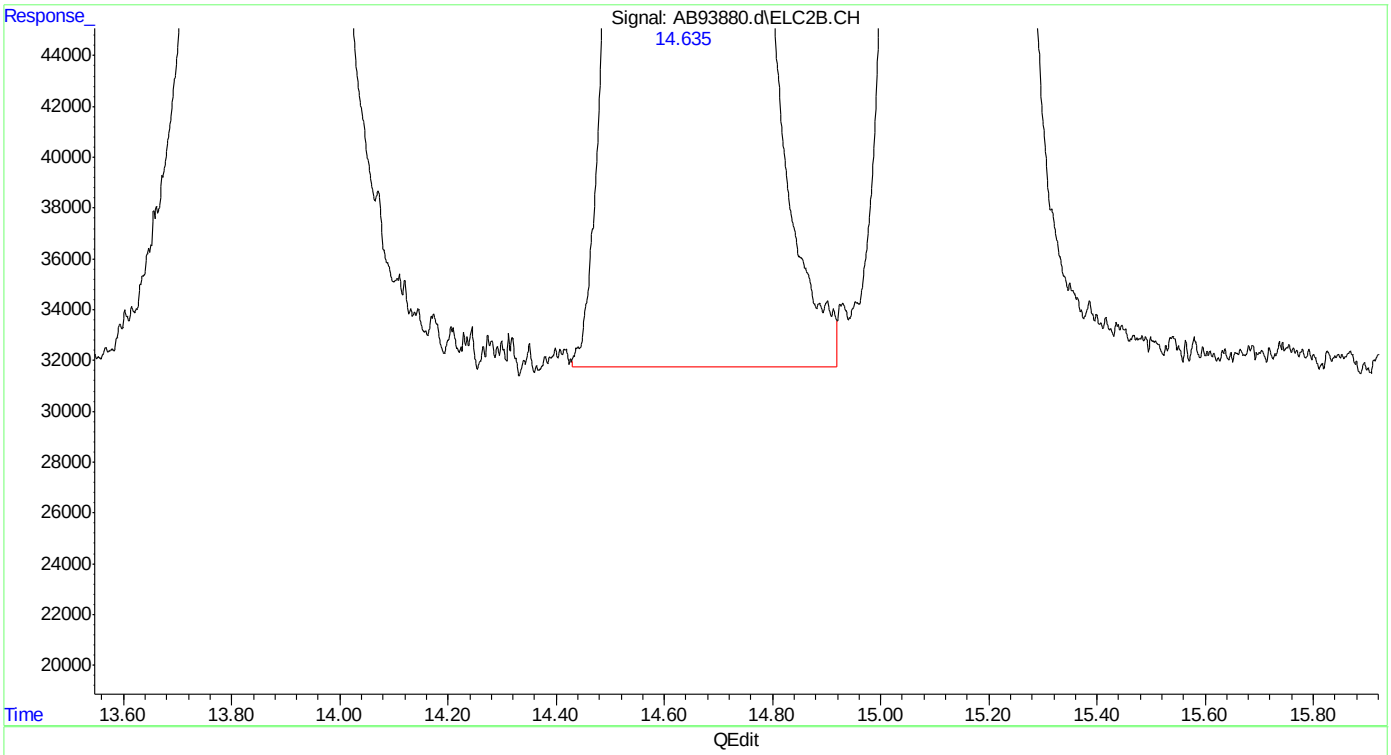


(15) benzene #2
14.636min 47.339 ppb
response 61618215

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:42:09 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 13:09:22
Operator  : danielf
Sample    : bsd,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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

14.635min 47.162 ppb m

response 61388111

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:42:17 2016

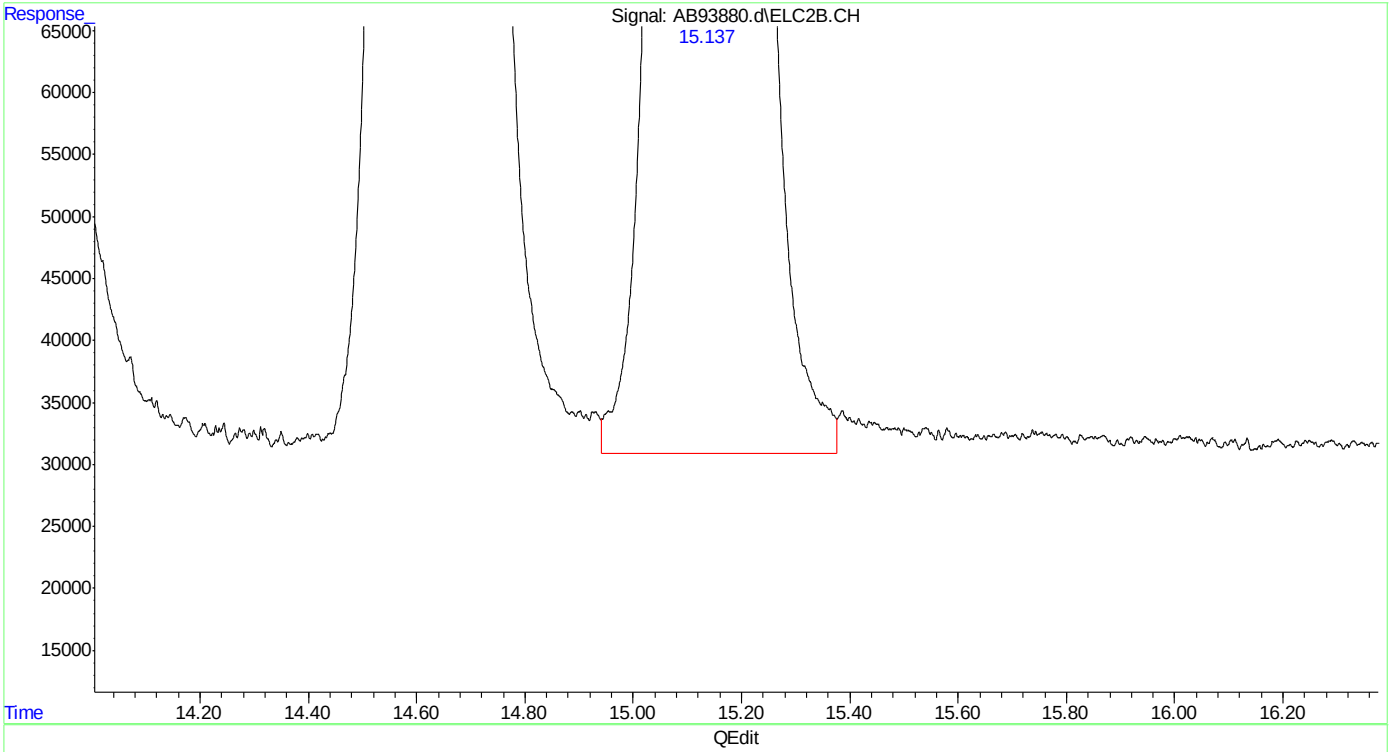
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
15.138min 49.355 ppb
response 41568880

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:42:26 2016

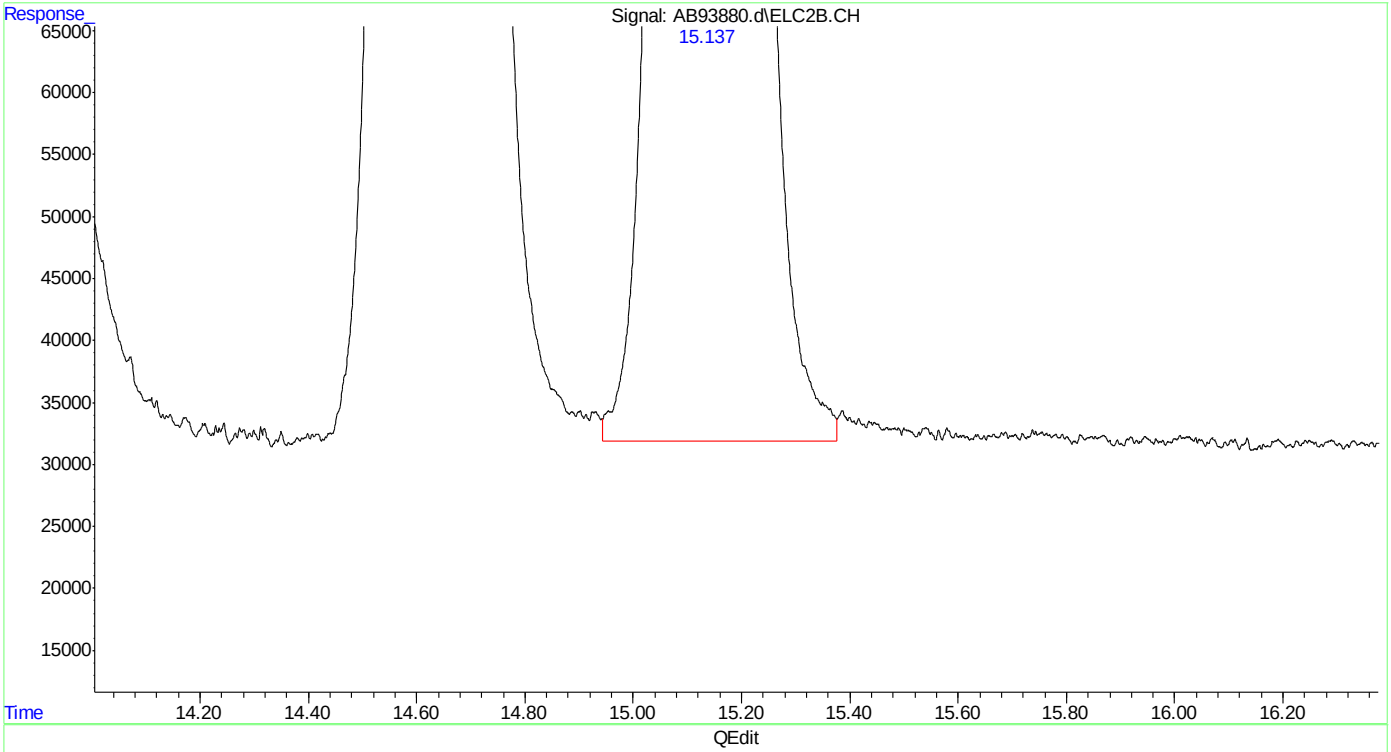
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
15.137min 49.045 ppb m
response 41308103

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:42:35 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 13:09:22
Operator  : danielf
Sample    : bsd,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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

19.096min 46.770 ppb

response 53471428

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:42:39 2016

SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
19.096min 46.673 ppb m
response 53359916

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:42:49 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
20.195min 46.886 ppb
response 21890136

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
20.195min 46.529 ppb m
response 21723331

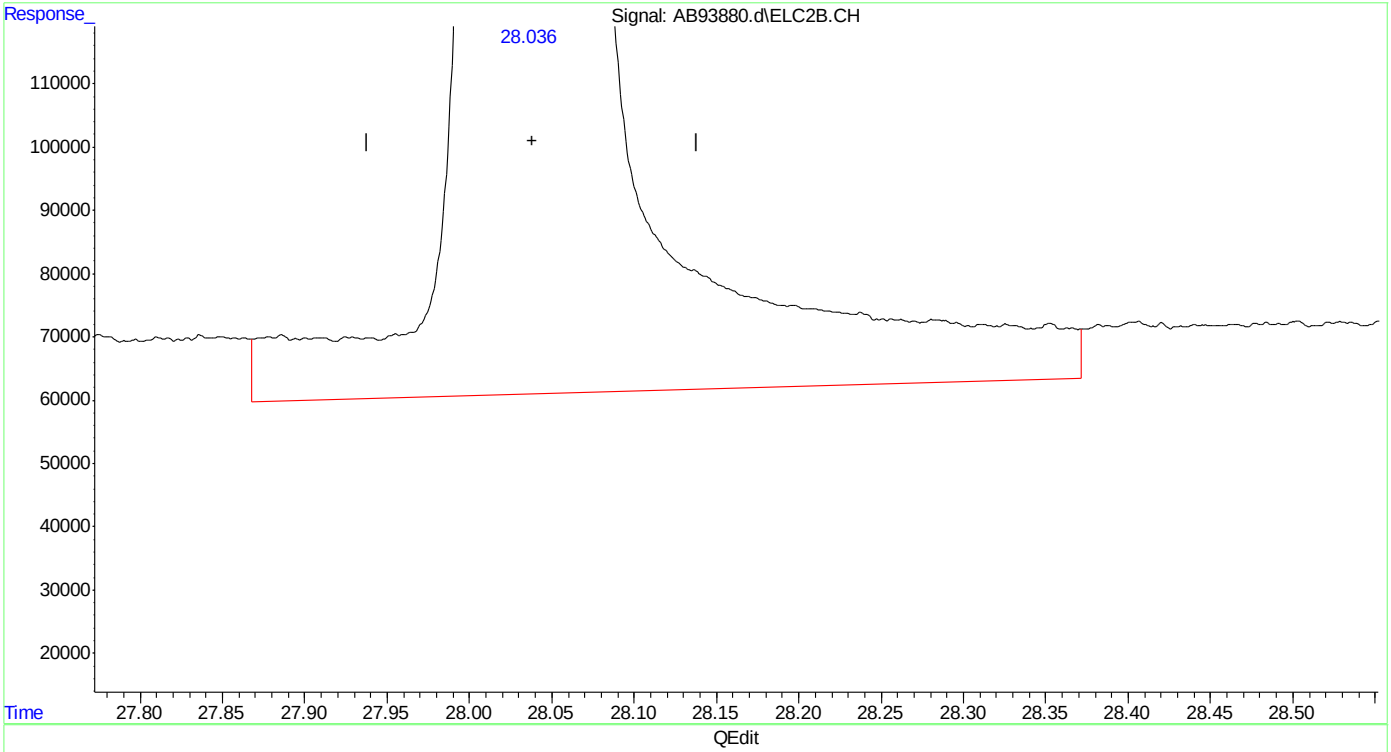
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 13:09:22
Operator : danielf
Sample : bsd,s,vmavph,00
Misc : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 :

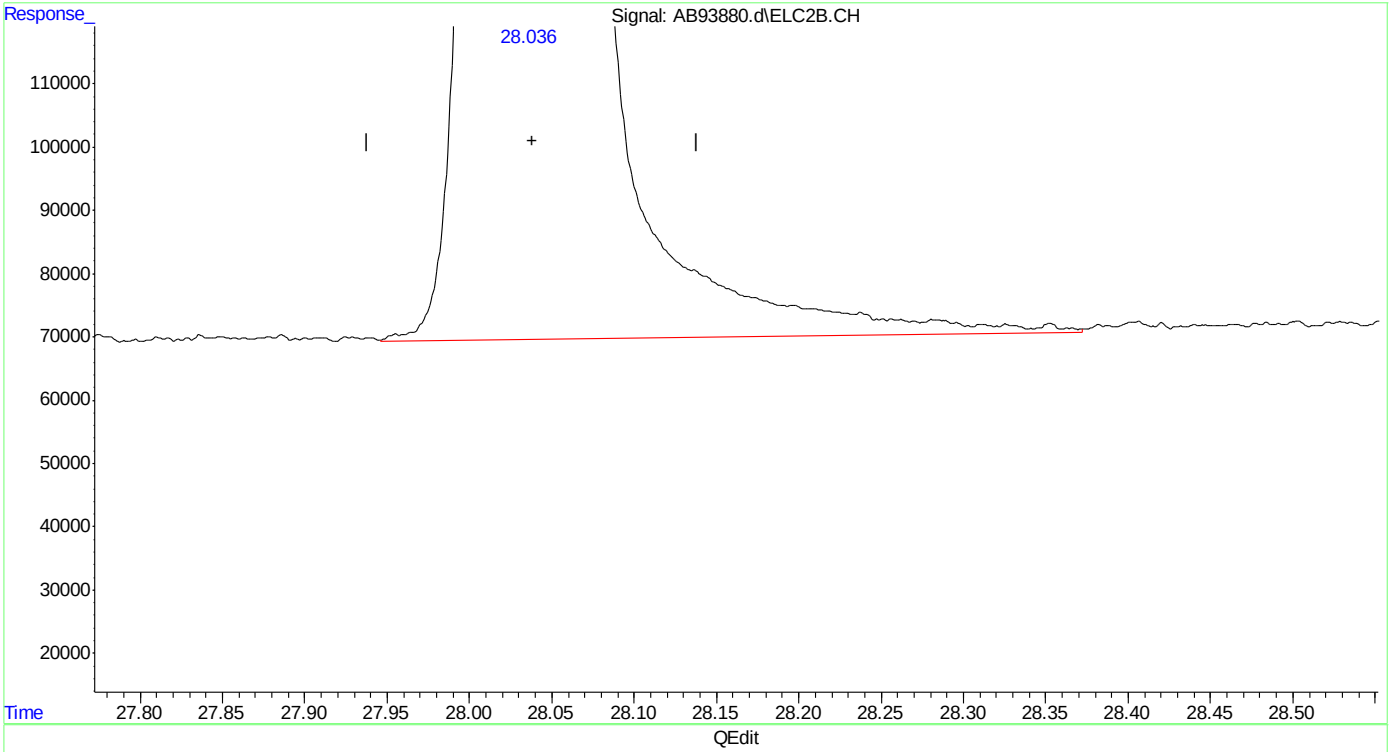


(24) naphthalene #2
28.037min 49.852 ppb
response 36038665

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 13:43:14 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93880.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 27-Apr-16, 13:09:22
Operator  : danielf
Sample    : bsd,s,vmavph,00
Misc      : gc26185,gab5156,20,,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: Apr 27 13:40:19 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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

28.036min 46.338 ppb m

response 33498518

(+) = Expected Retention Time

ab160427vph.M Wed Apr 27 13:43:19 2016

SGS ACCUTEST MC45538

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

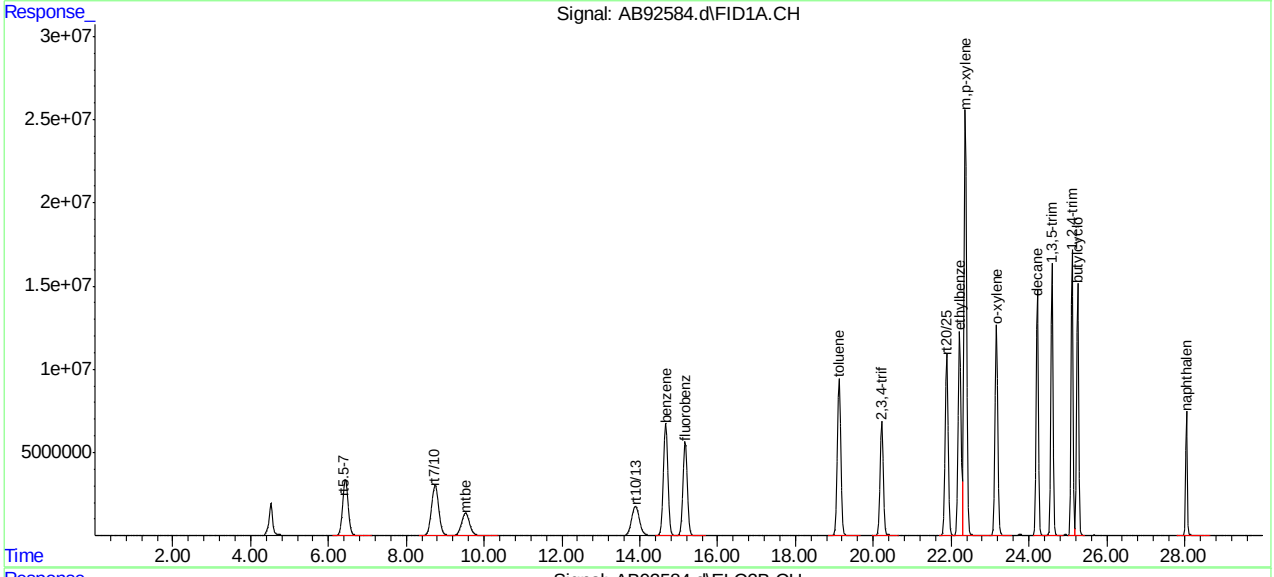
(f)=RT Delta > 1/2 Window (m)=manual int.

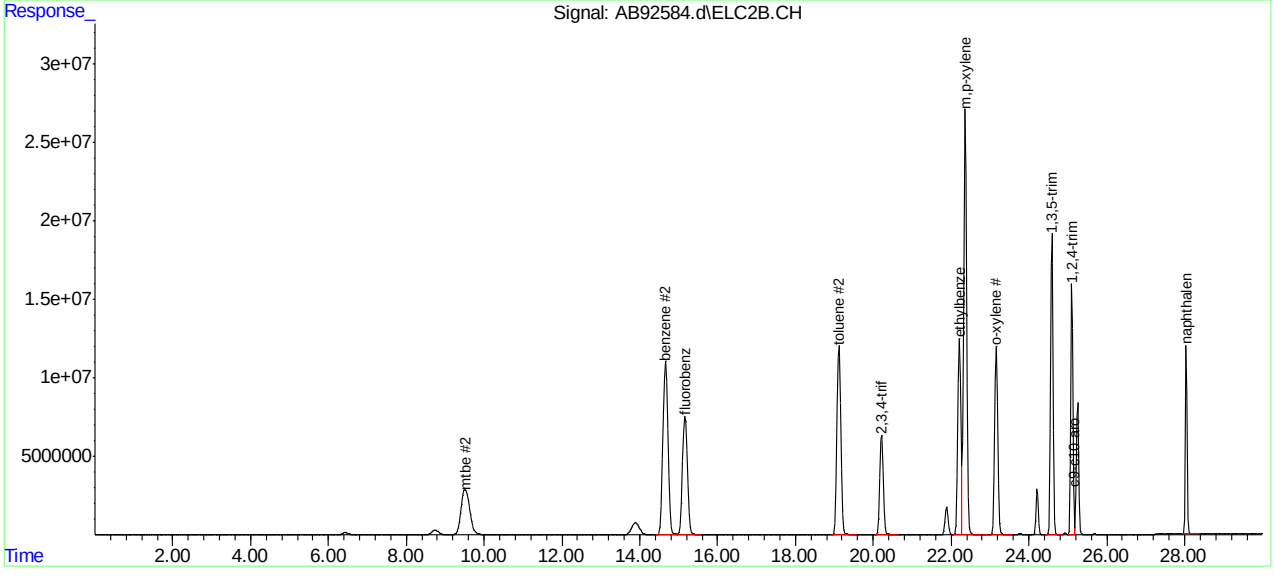
Quantitation Report (QT Reviewed)

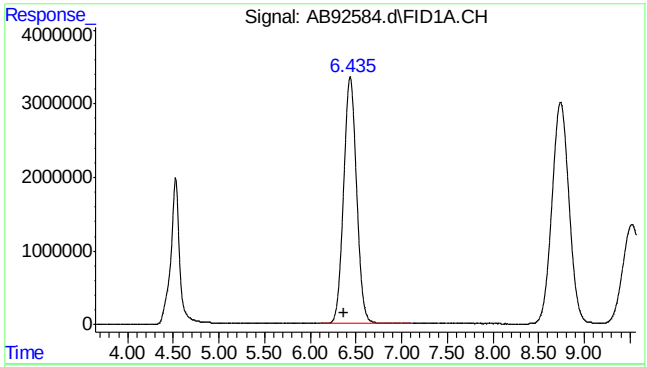
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

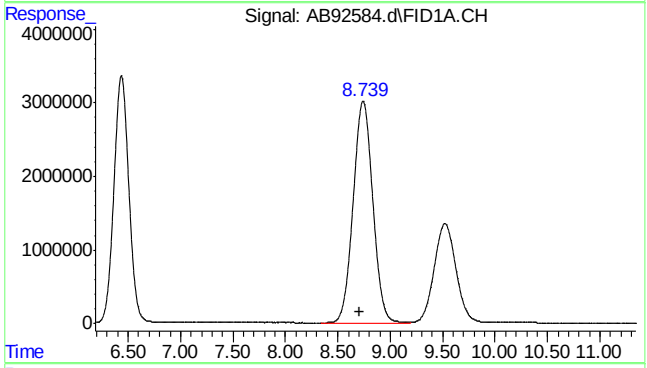






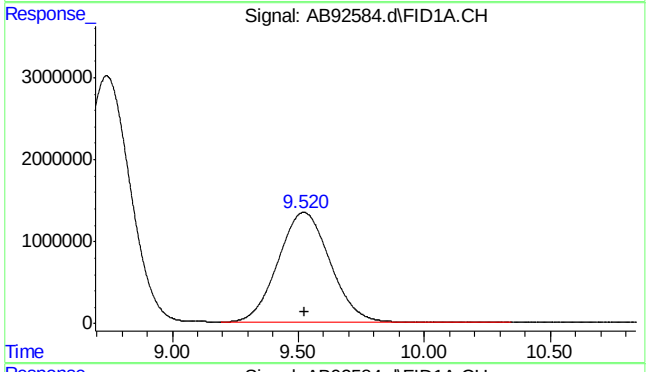
#1 rt5.5-7

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



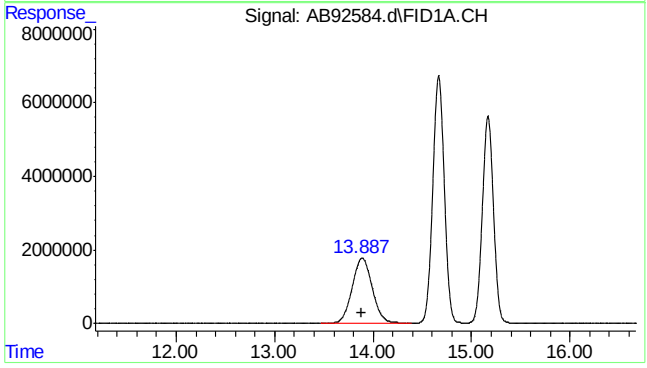
#2 rt7/10

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

7.4.1

7

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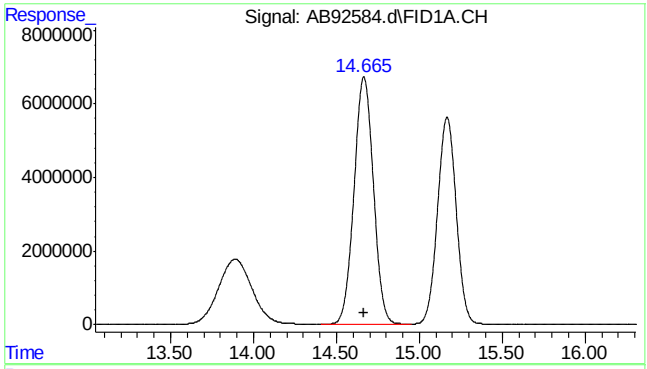
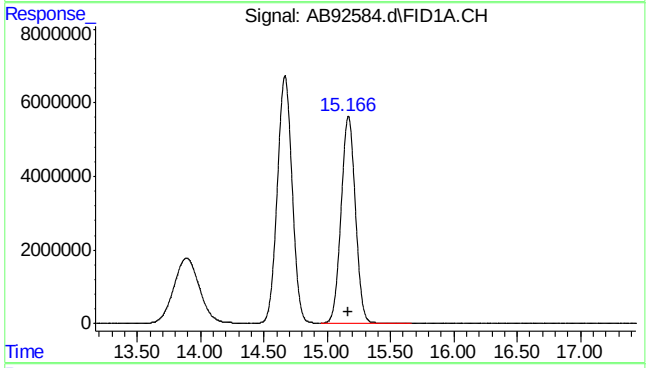


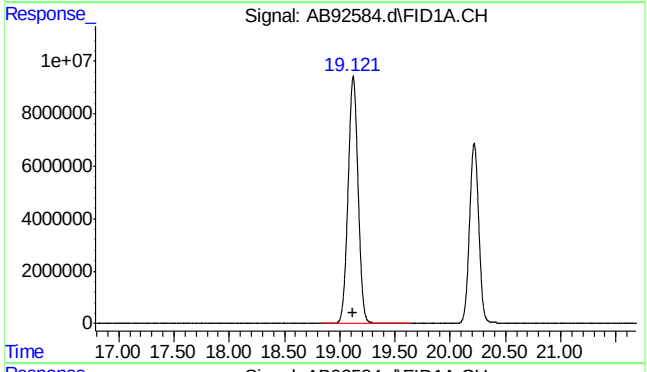
#5 benzene

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



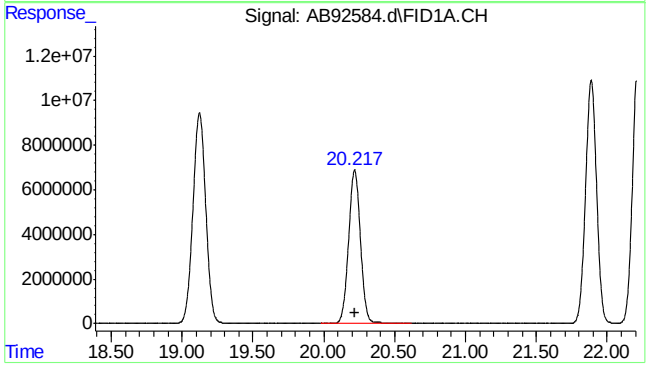
#6 fluorobenzene

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



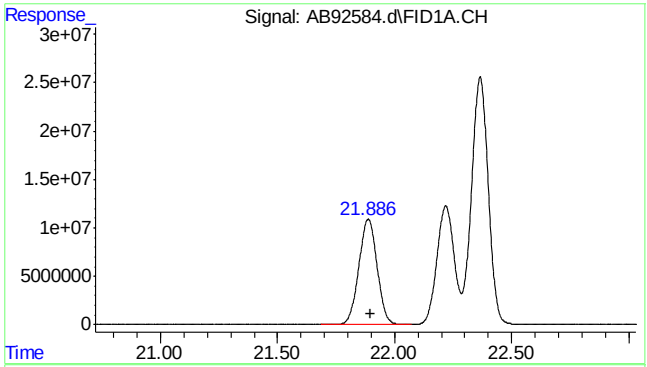
#8 toluene

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



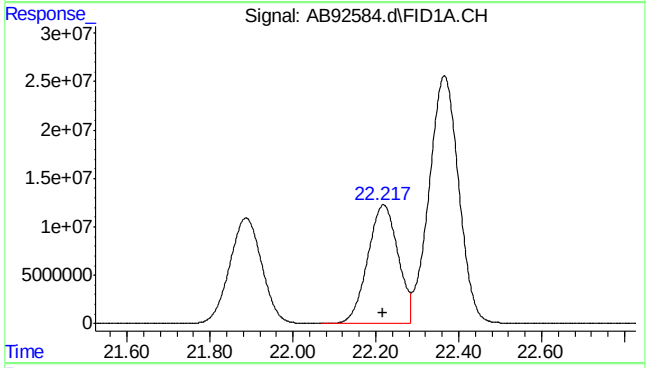
#9 2,3,4-trifluorotoluene

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



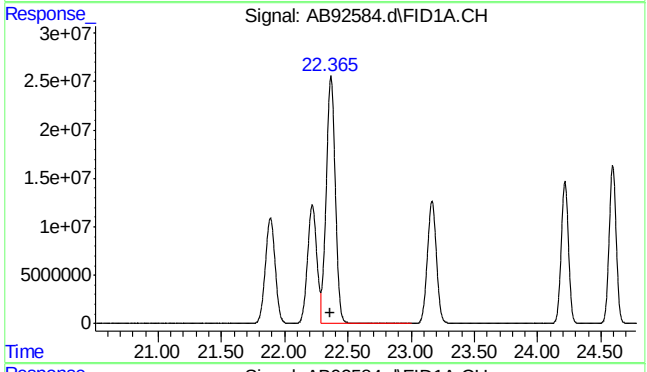
#11 rt20/25

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



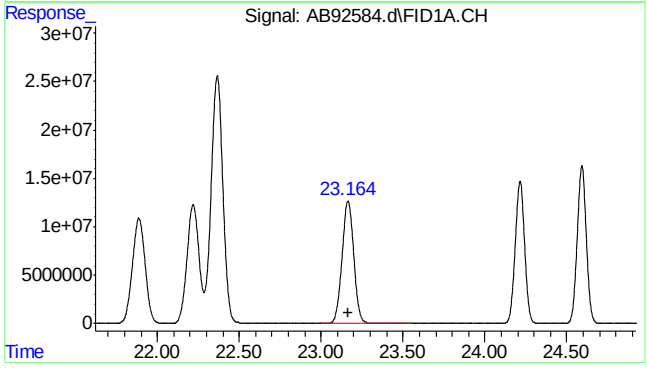
#13 ethylbenzene

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

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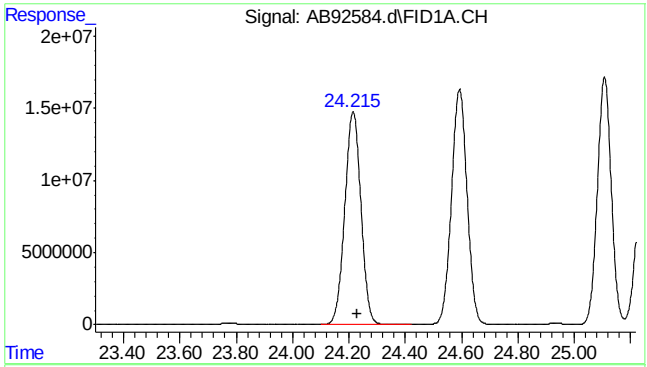
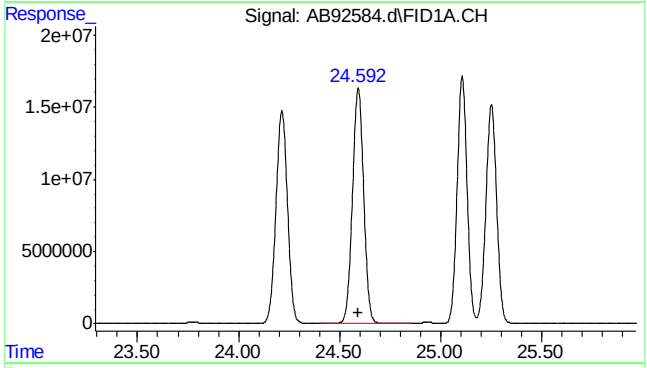


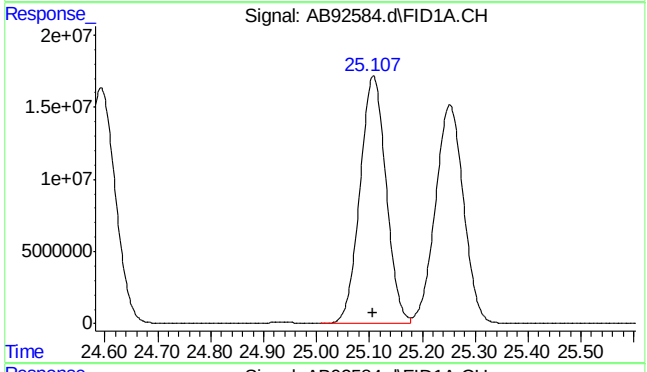
#16 decane

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



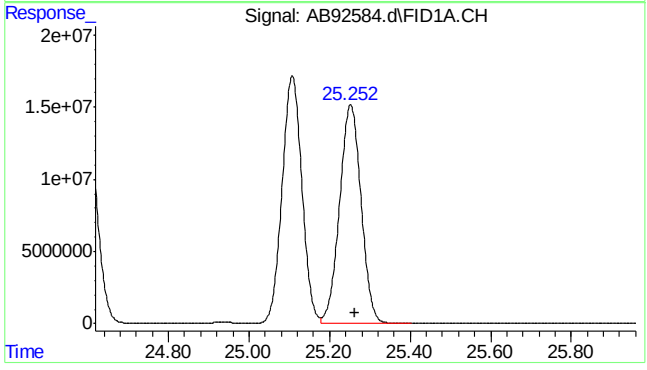
#17 1,3,5-trimethylbenzene

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

7.4.1

7

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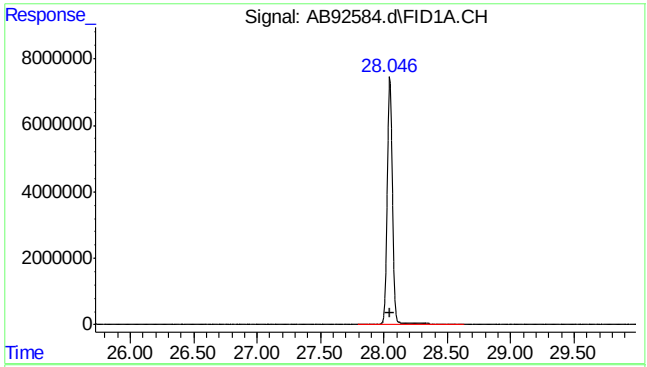
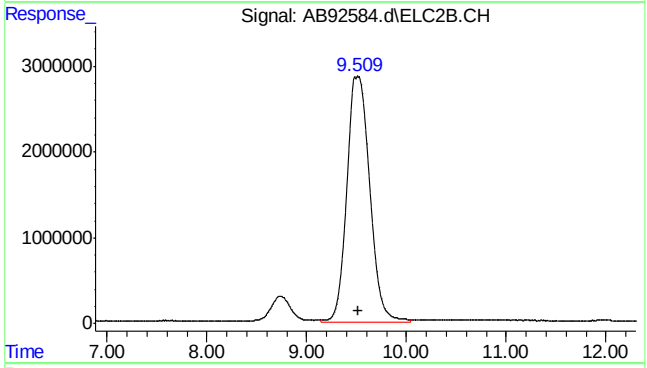


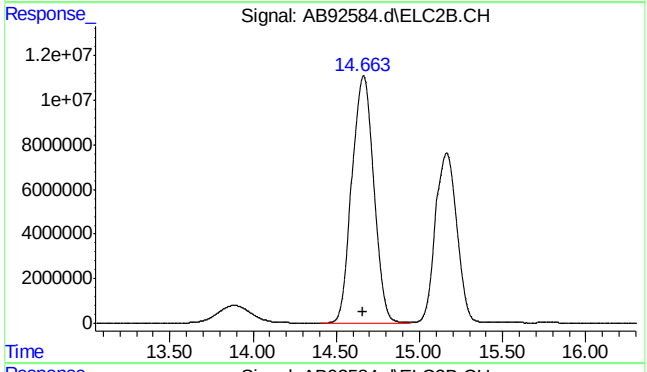
#20 naphthalene

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



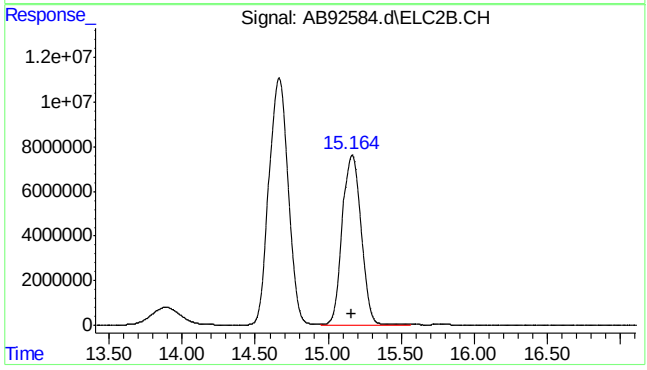
#23 mtbe #2

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



#24 benzene #2

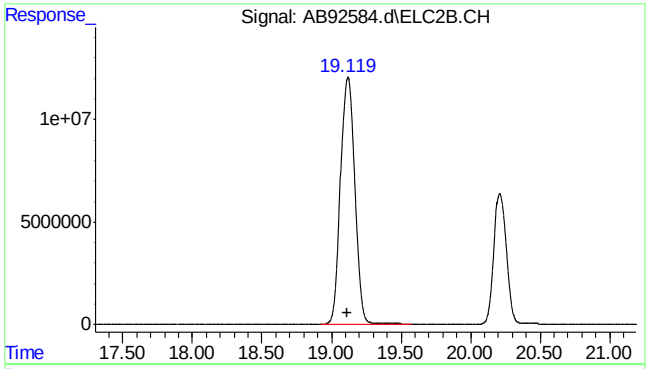
R.T.: 14.663 min
Delta R.T.: 0.005 min
Response: 1012253857
Conc: 756.64 ppb



#25 fluorobenzene #2

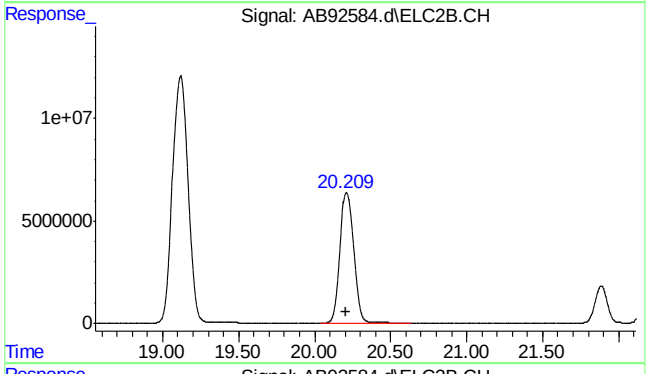
R.T.: 15.163 min
Delta R.T.: 0.005 min
Response: 685273250
Conc: 795.10 ppb

SGS ACCUTEST MC45538



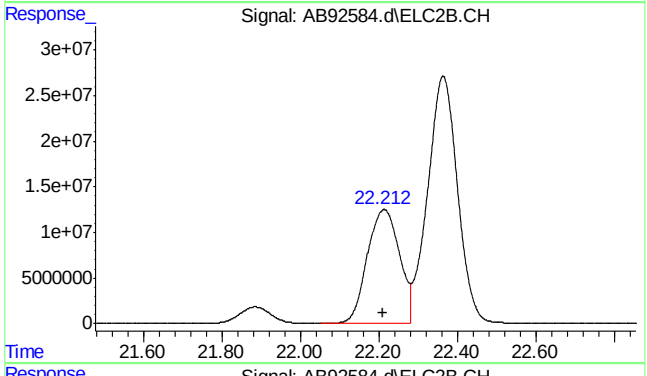
#26 toluene #2

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



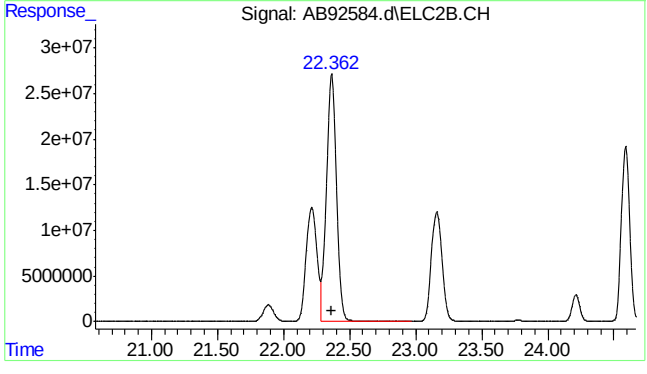
#27 2,3,4-trifluorotoluene #2

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



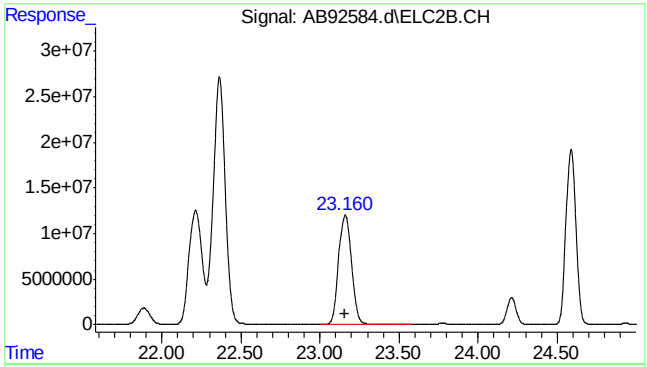
#28 ethylbenzene #2

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



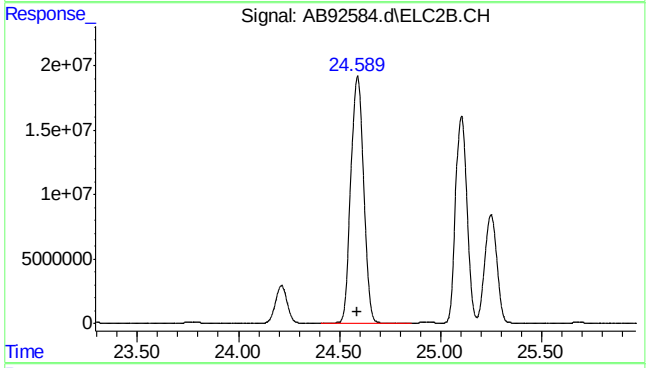
#29 m,p-xylene #2

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



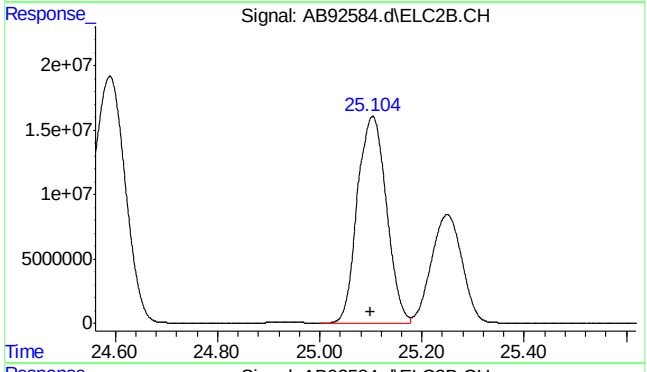
#30 o-xylene #2

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



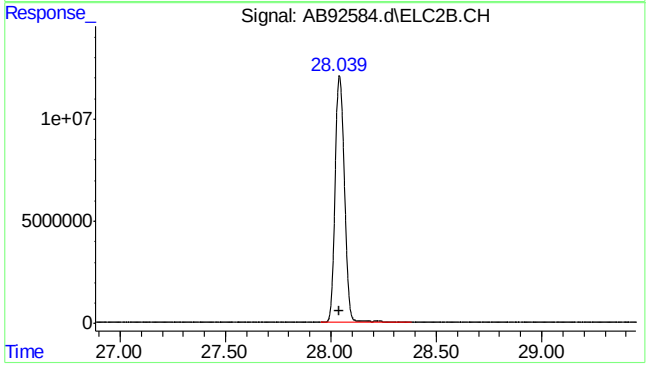
#31 1,3,5-trimethylbenzene #2

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



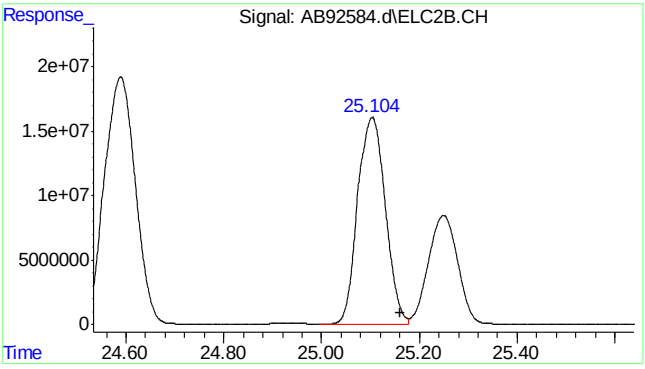
#33 naphthalene #2

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

7.4.1

7

SGS ACCUTEST MC45538




```
#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
```

7.4.1

7

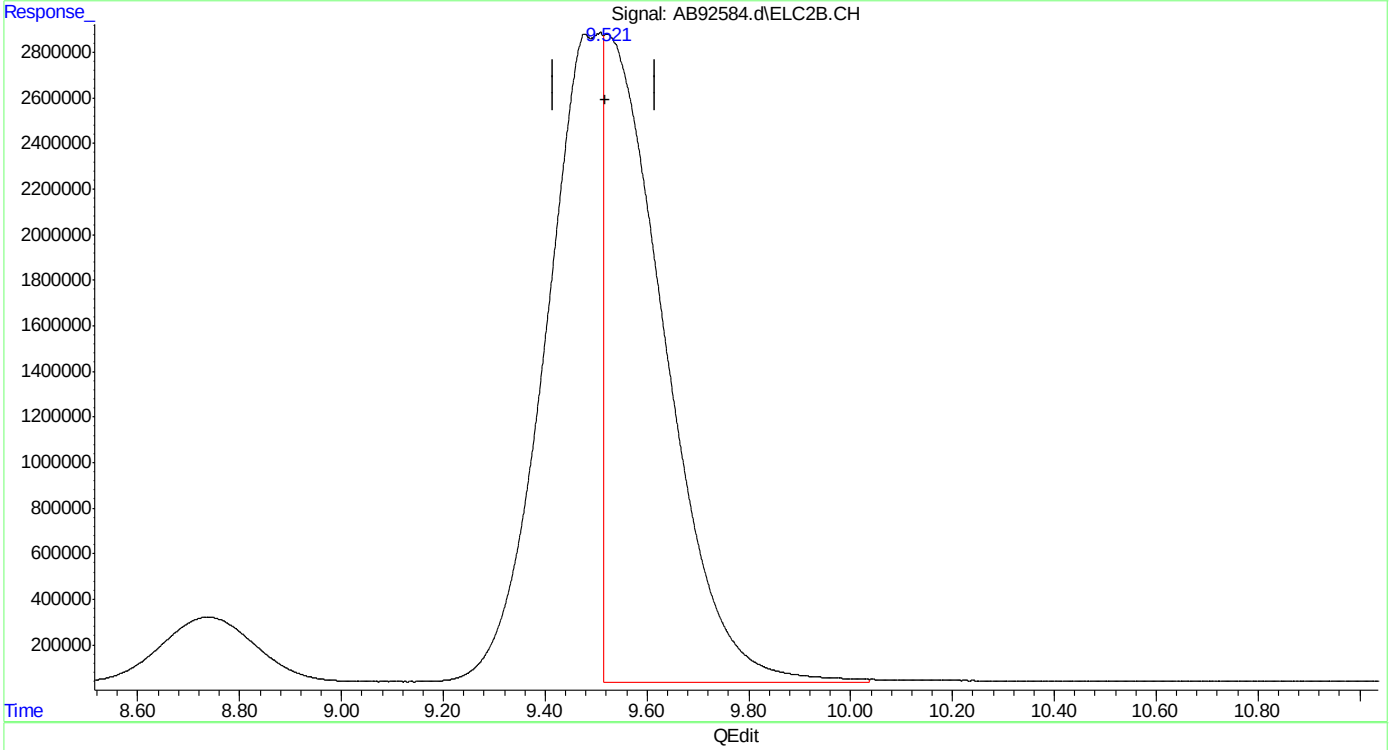
SGS ACCUTEST MC45538

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

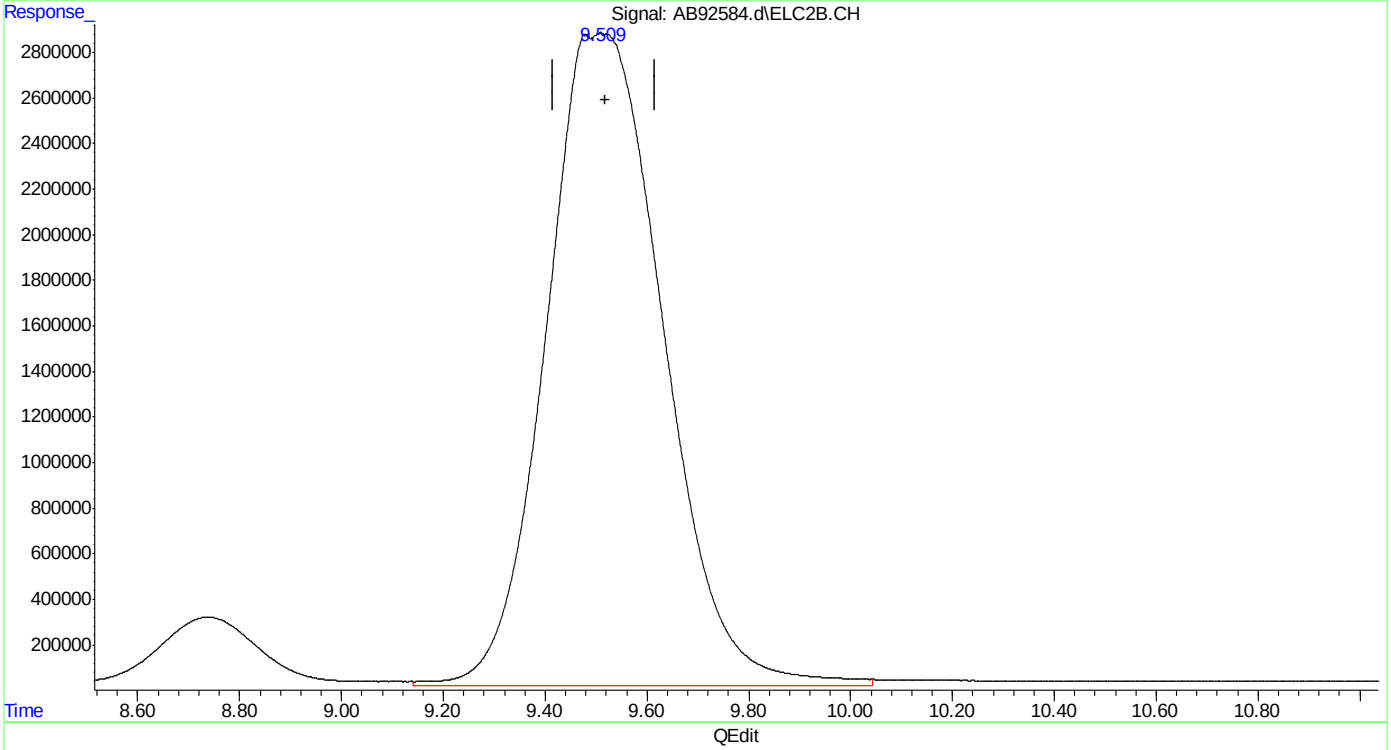
SGS ACCUTEST MC45538

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

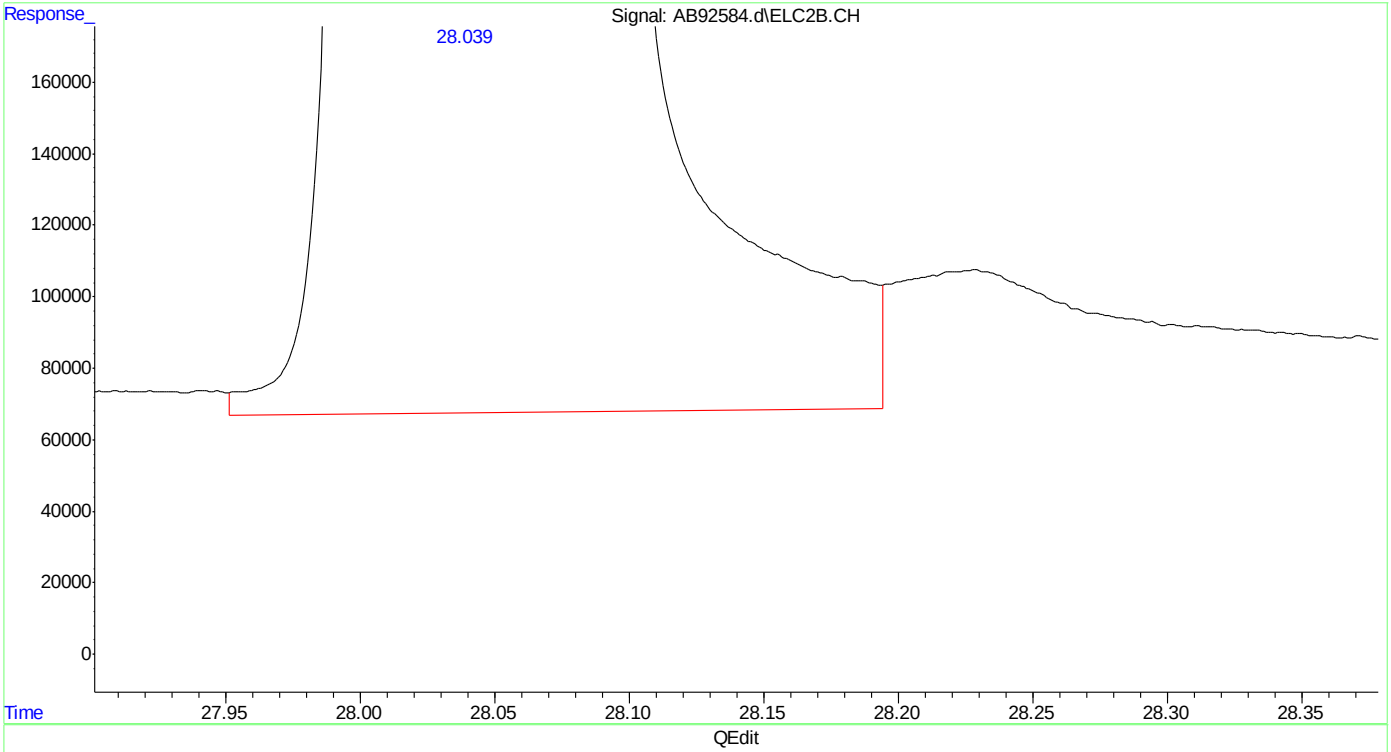
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:18:49 2016

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)

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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 :
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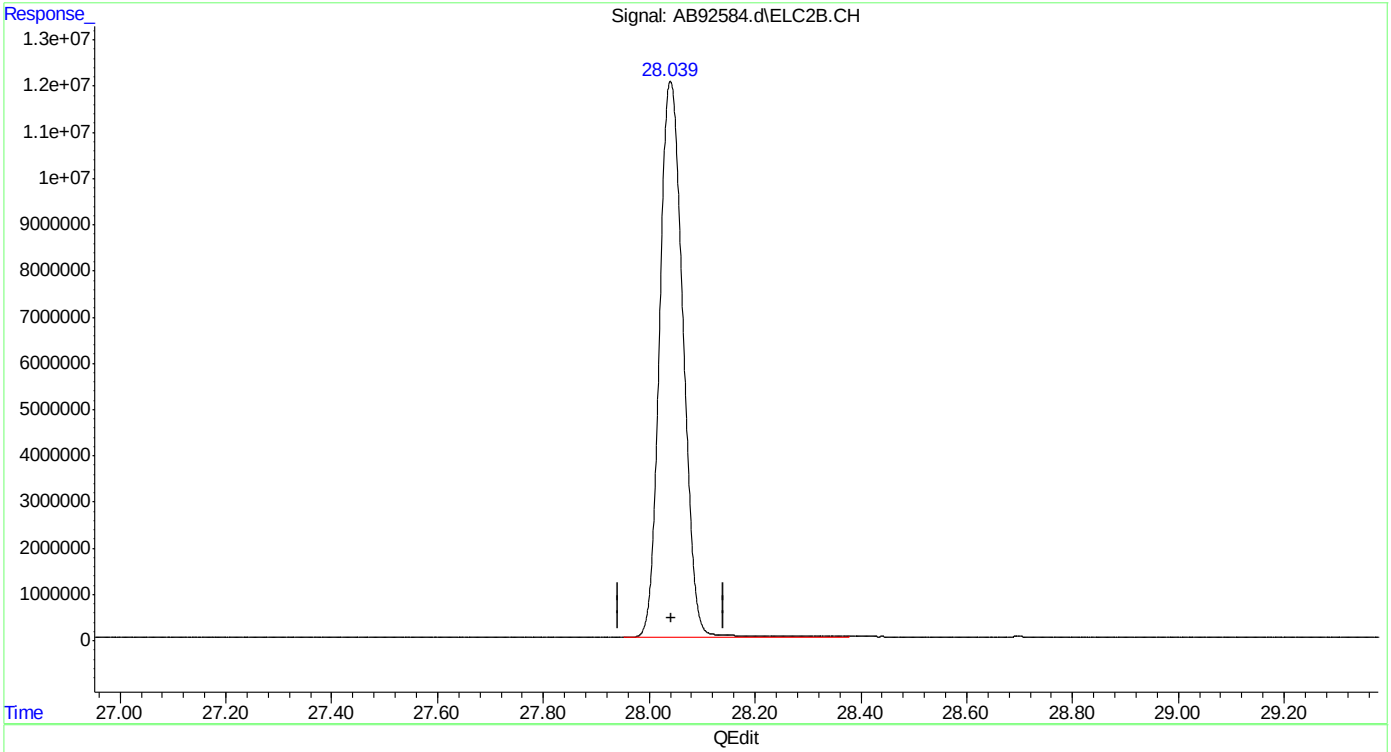


(33) naphthalene #2

28.039min 481.118 ppb m

response 370568666

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:19:12 2016

SGS ACCUTEST MC45538

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

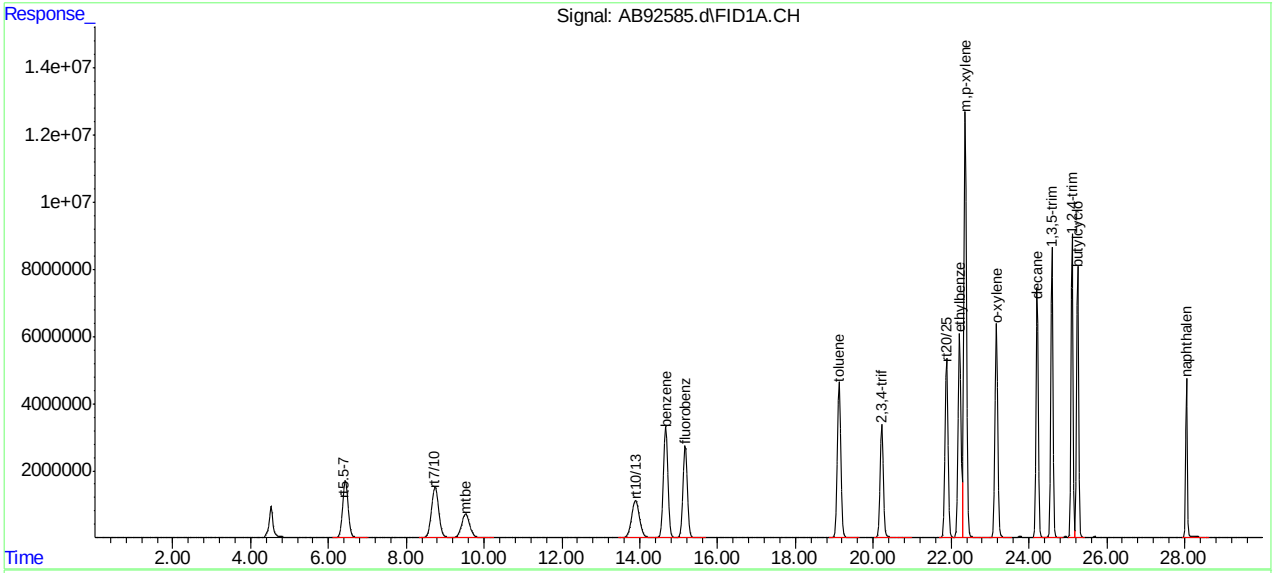
(f)=RT Delta > 1/2 Window (m)=manual int.

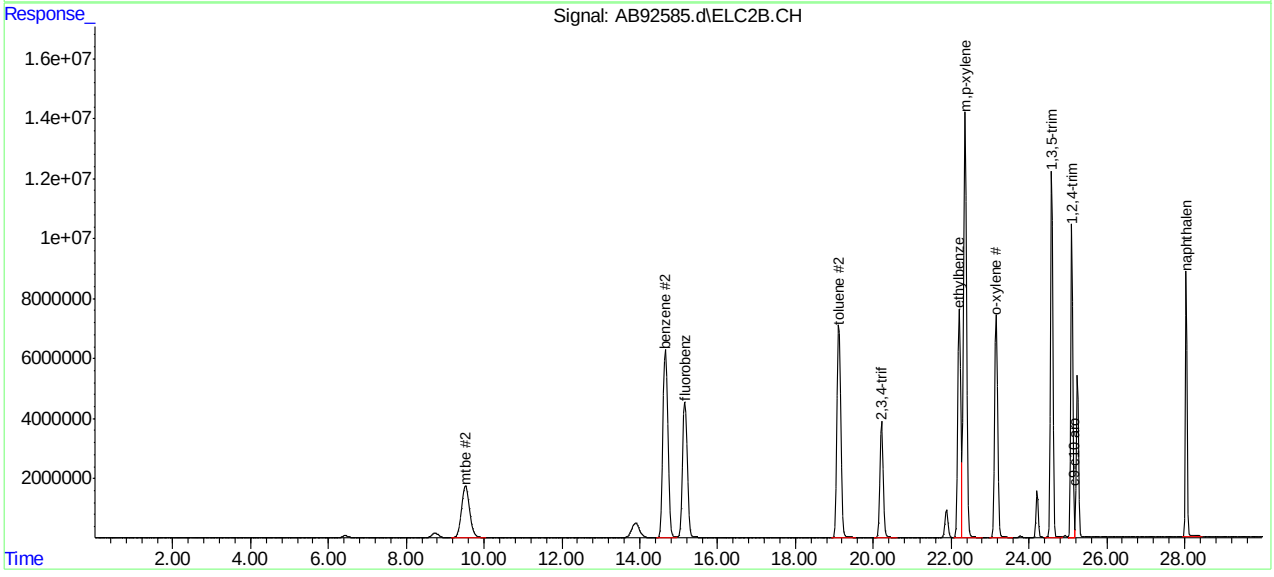
Quantitation Report (QT Reviewed)

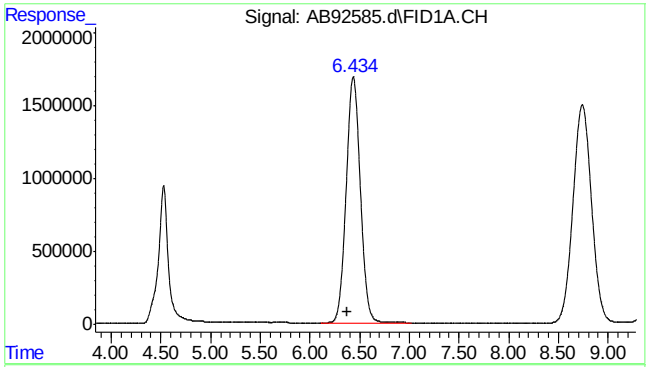
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:04:35
Operator : haleyn
Sample : ic5058-500
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

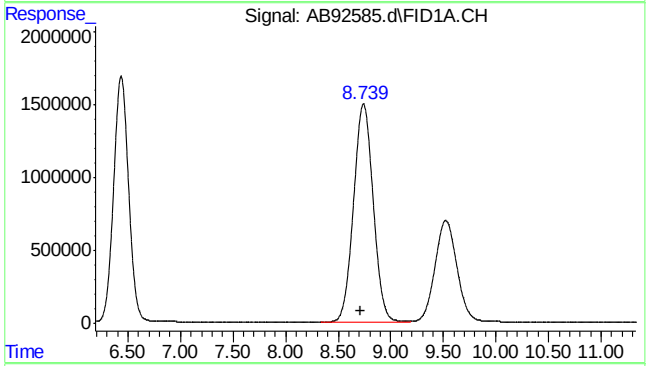






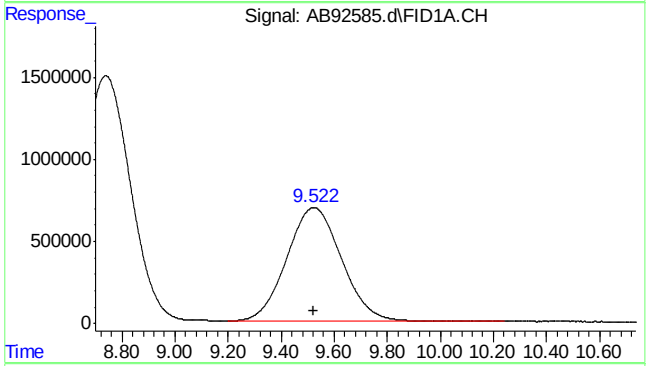
#1 rt5.5-7

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



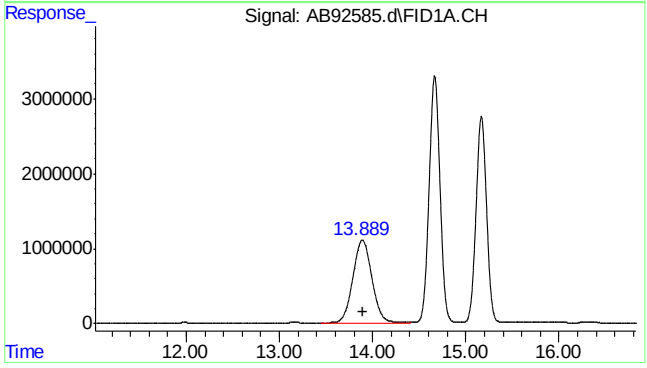
#2 rt7/10

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

7.4.2

7

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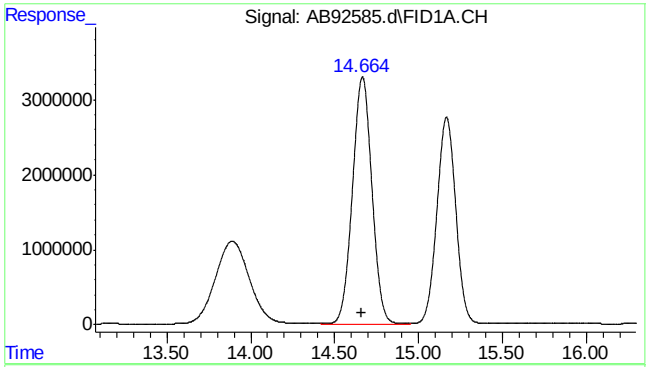
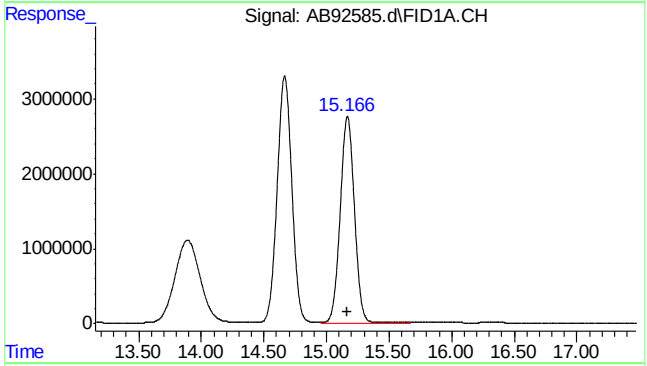


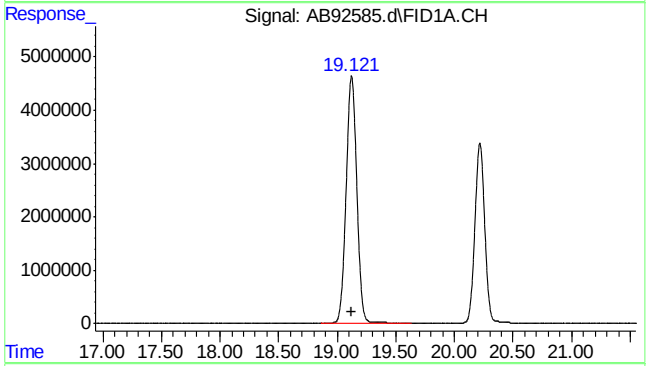
#5 benzene

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



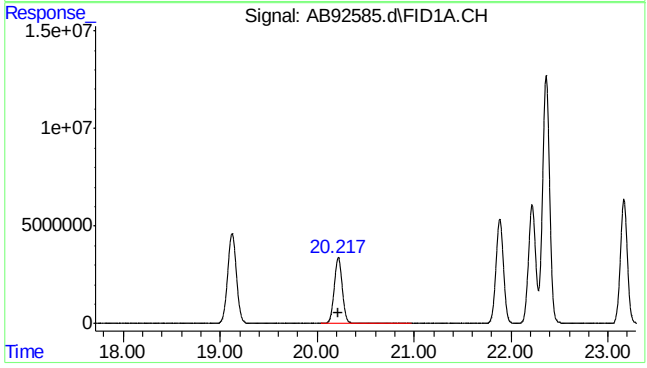
#6 fluorobenzene

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



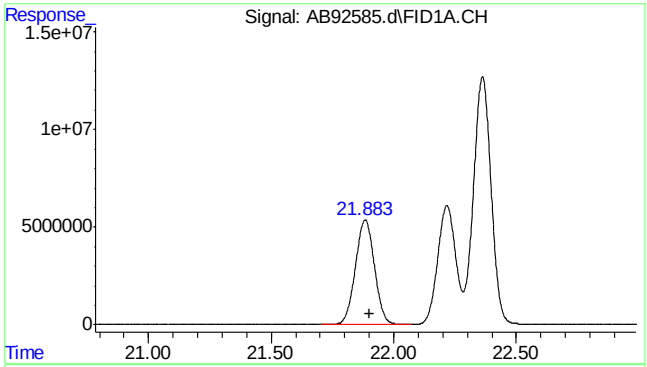
#9 2,3,4-trifluorotoluene

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

7.4.2

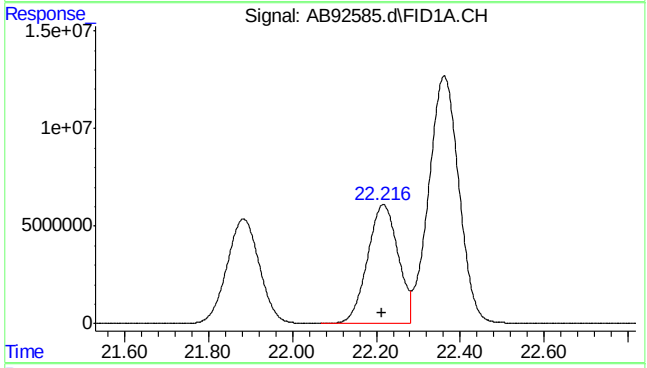
7

SGS ACCUTEST MC45538



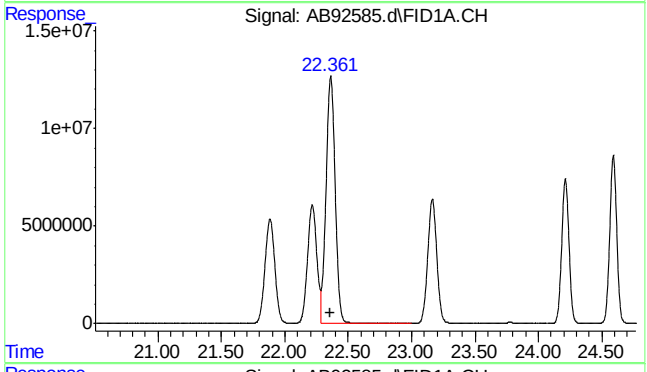
#11 rt20/25

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



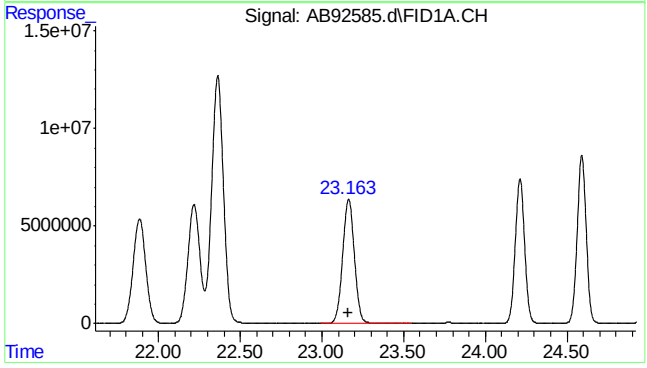
#13 ethylbenzene

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



#14 m,p-xylene

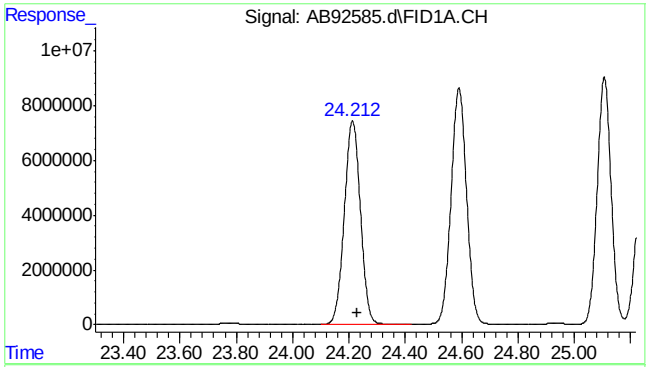
R.T.: 22.362 min
Delta R.T.: 0.003 min
Response: 636990267
Conc: 957.31 ppb



#15 o-xylene

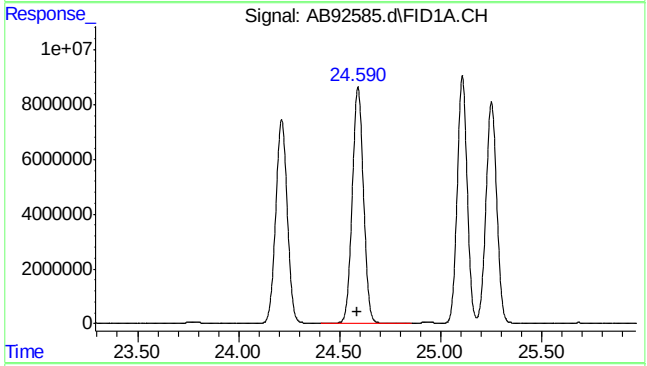
R.T.: 23.164 min
Delta R.T.: 0.002 min
Response: 316689512
Conc: 475.16 ppb

SGS ACCUTEST MC45538



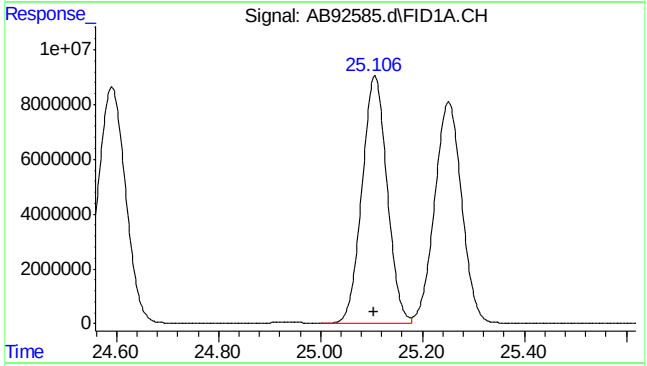
#16 decane

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



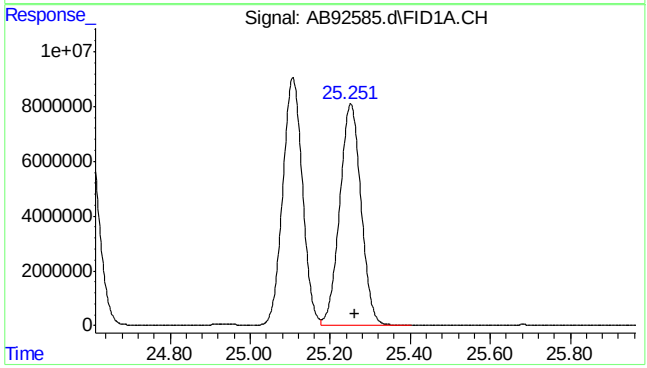
#17 1,3,5-trimethylbenzene

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



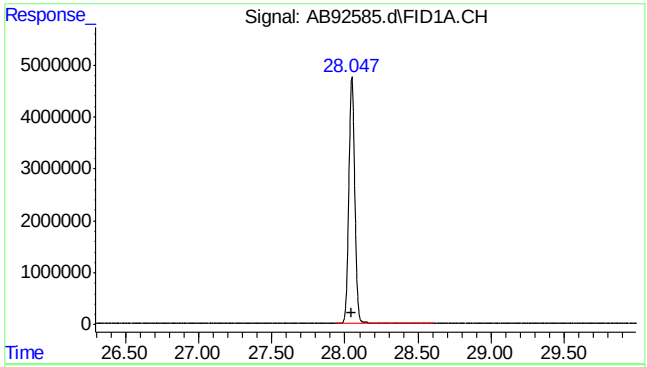
#19 butylcyclohexane

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

7.4.2

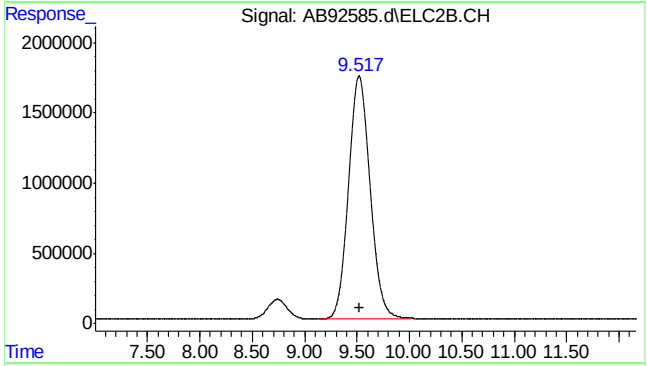
7

SGS ACCUTEST MC45538



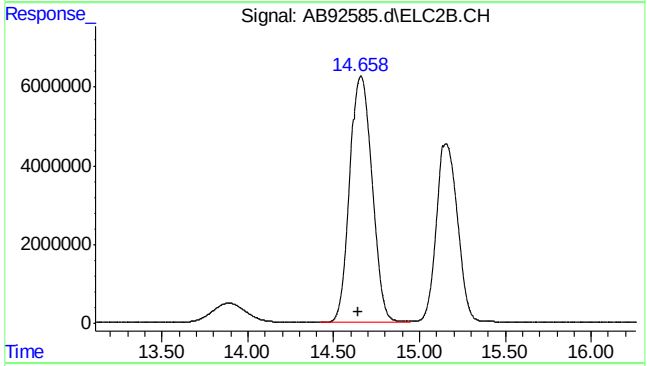
#20 naphthalene

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



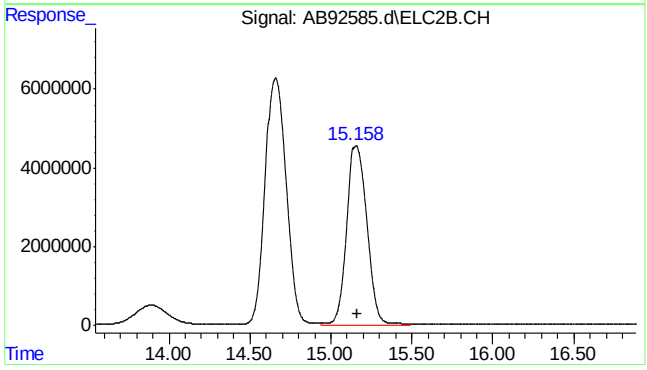
#23 mtbe #2

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



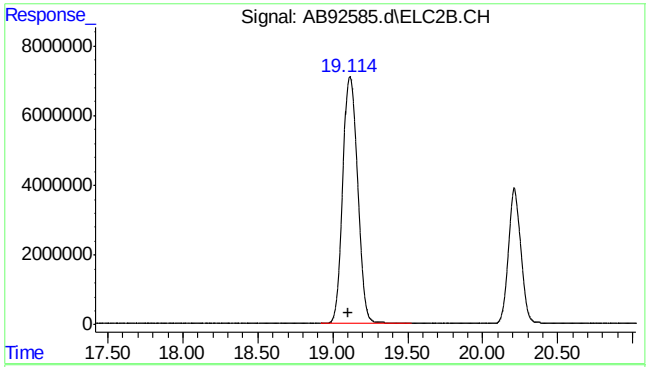
#25 fluorobenzene #2

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

7.4.2

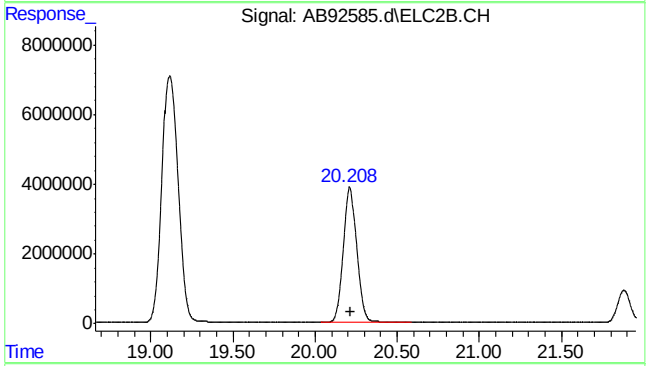
7

SGS ACCUTEST MC45538



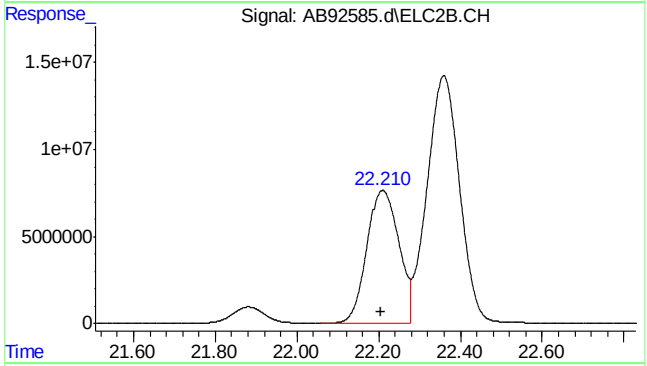
#26 toluene #2

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



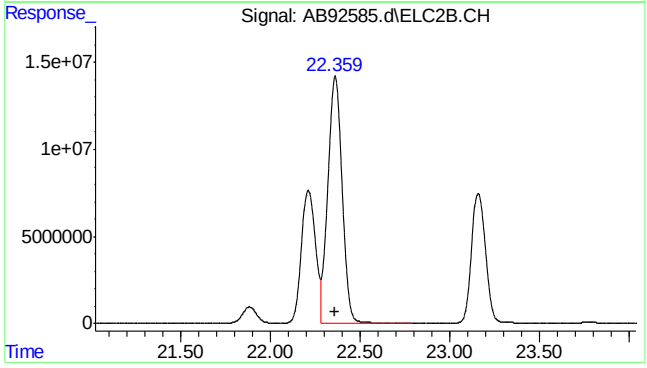
#27 2,3,4-trifluorotoluene #2

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



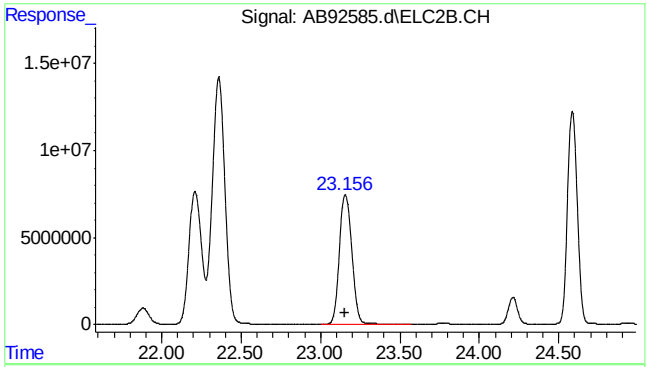
#29 m,p-xylene #2

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

7.4.2

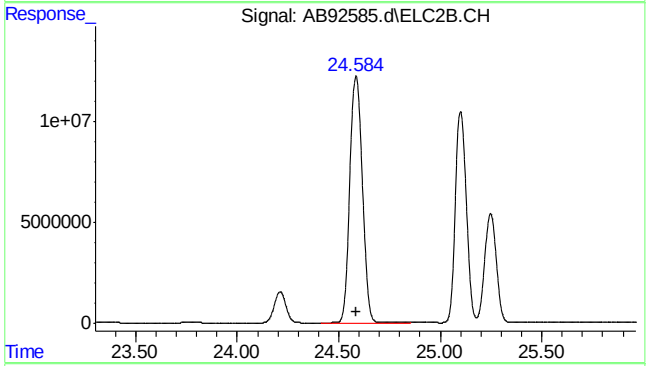
7

SGS ACCUTEST MC45538



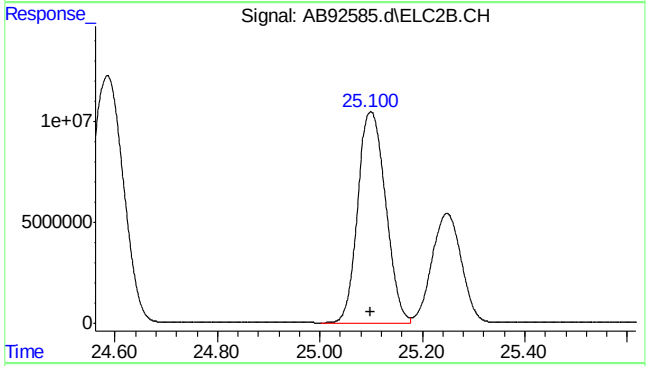
#30 o-xylene #2

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



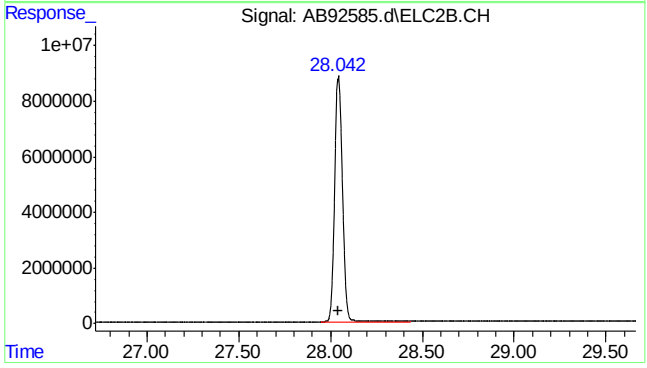
#31 1,3,5-trimethylbenzene #2

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



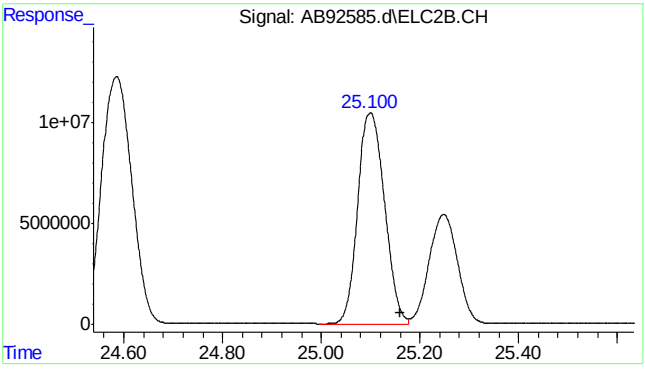
#33 naphthalene #2

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

7.4.2

7

SGS ACCUTEST MC45538




```
#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
```

7.4.2

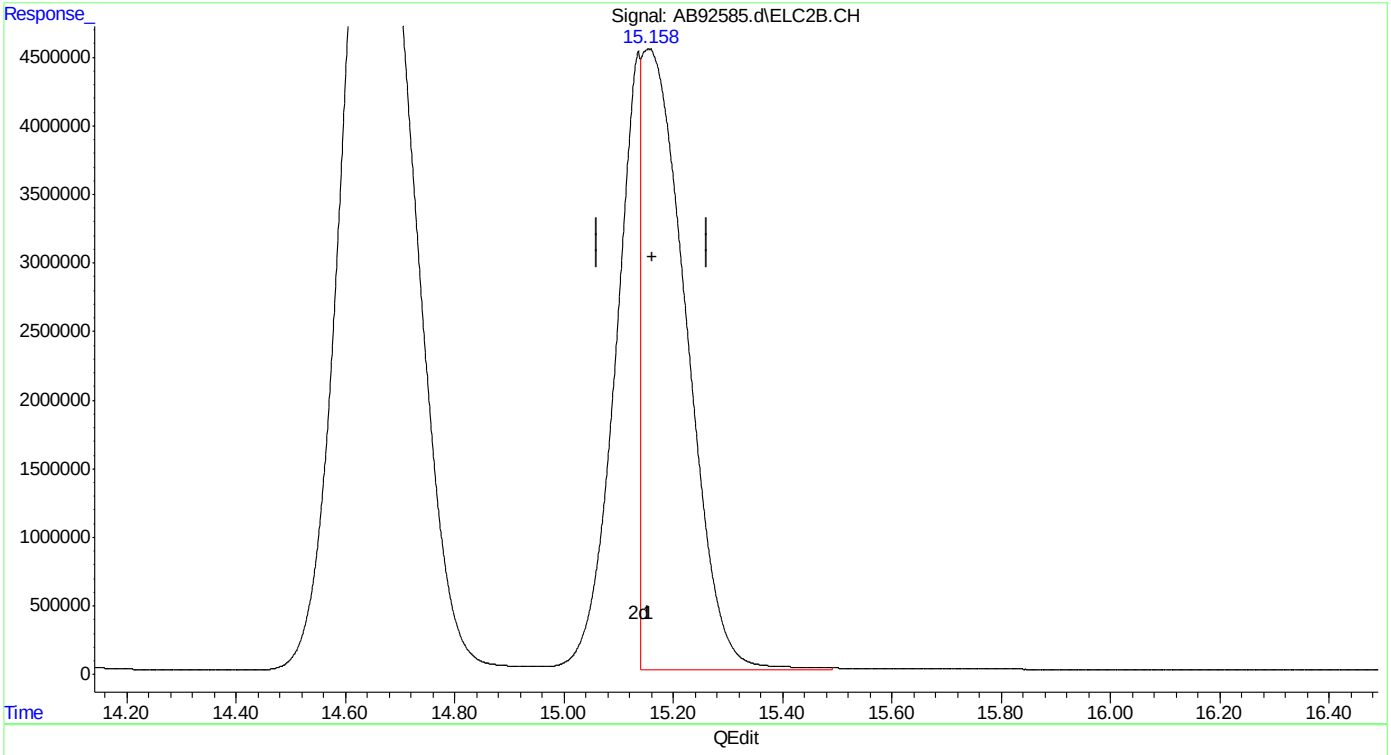
7

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

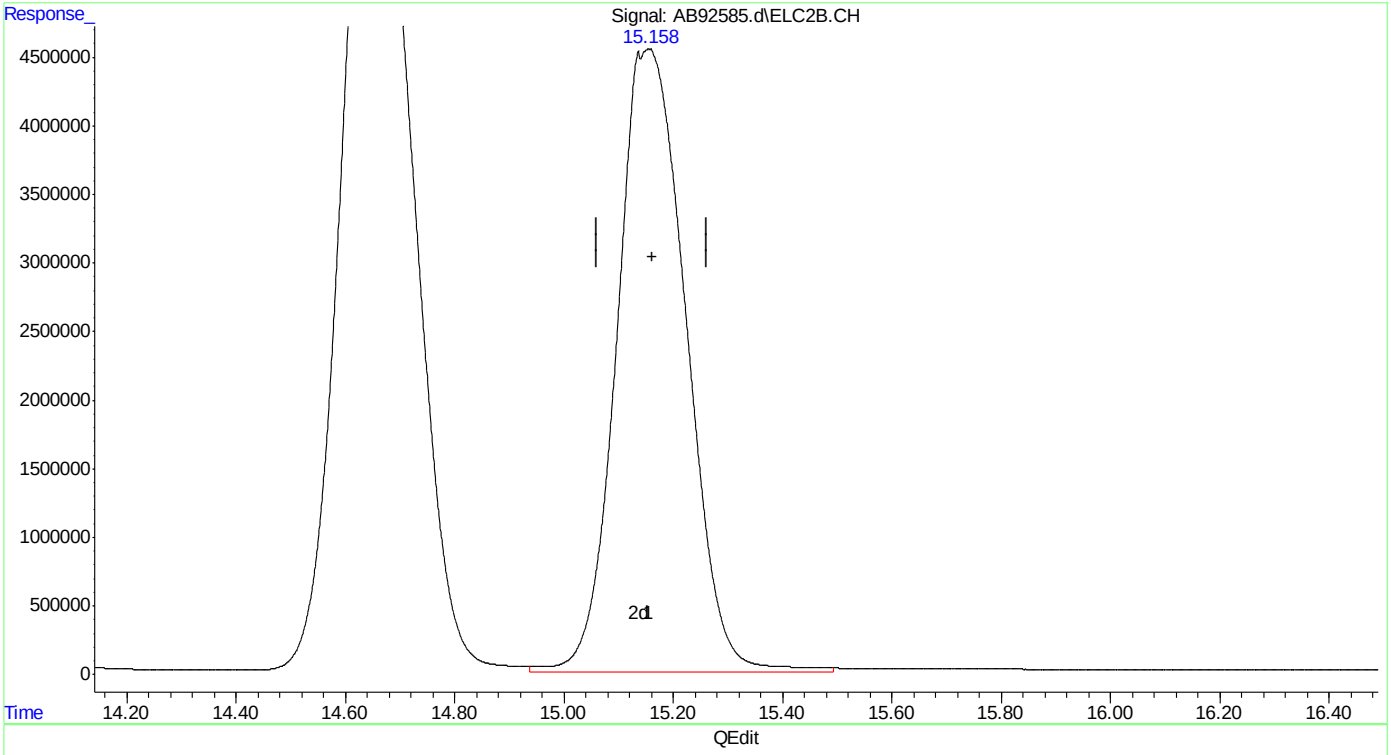
SGS ACCUTEST MC45538

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

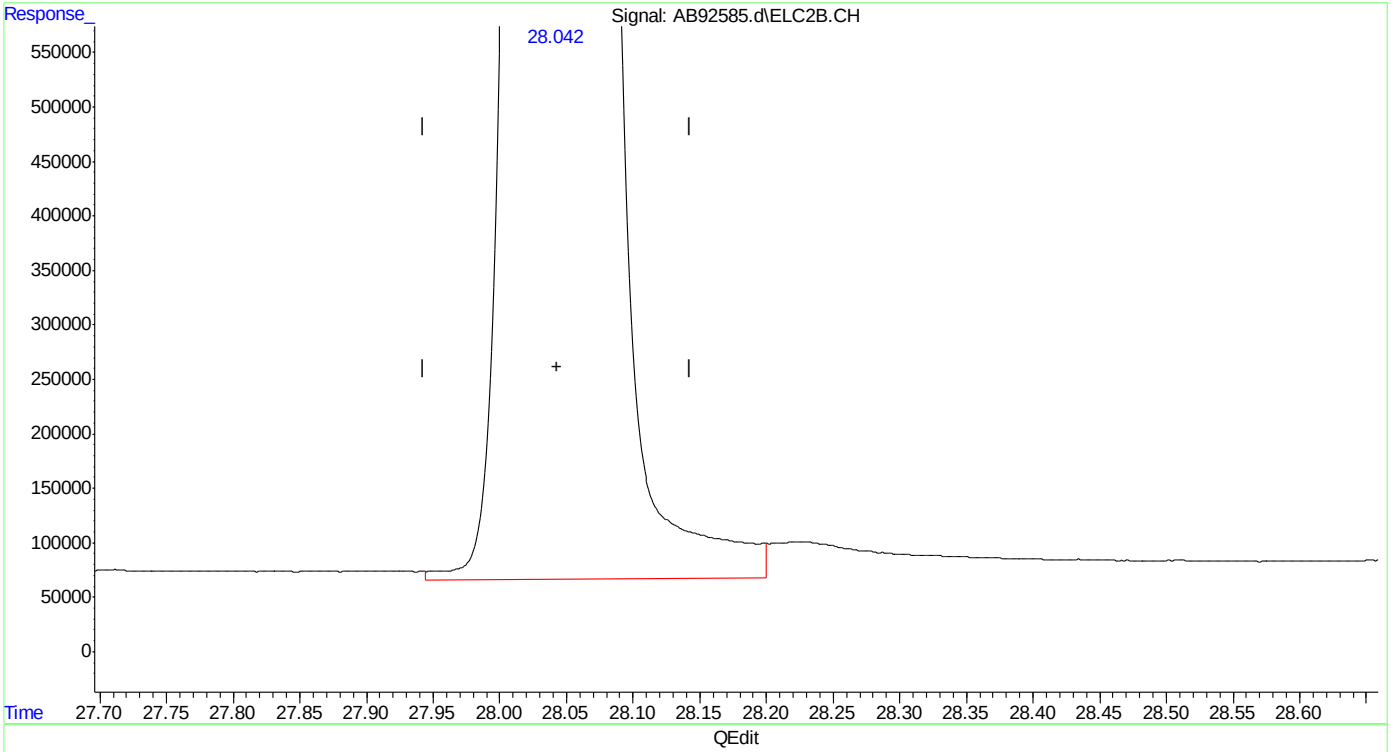
(+) = Expected Retention Time

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

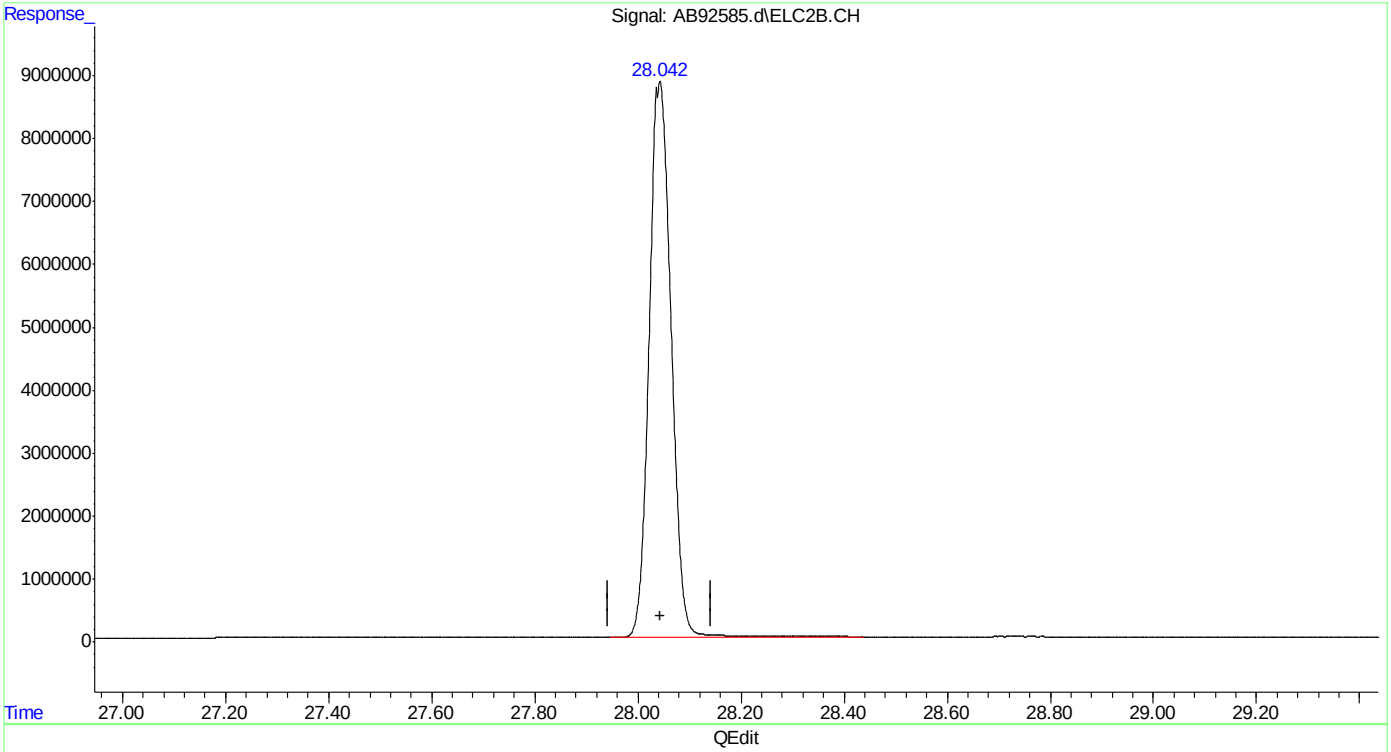
(+) = Expected Retention Time

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

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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 : 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

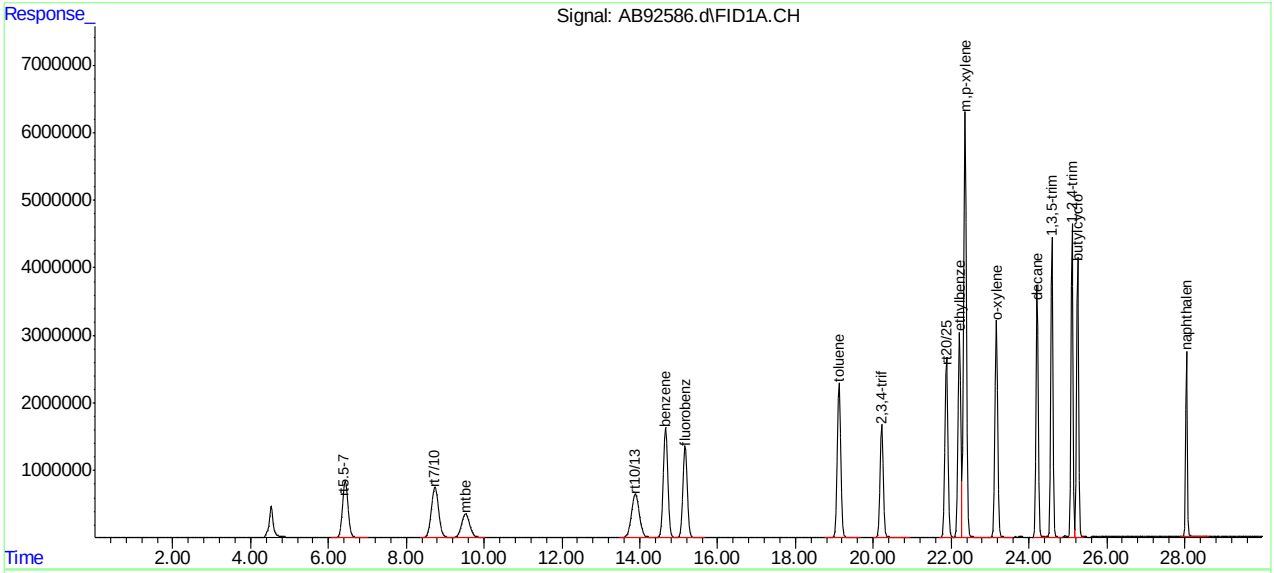
(f)=RT Delta > 1/2 Window (m)=manual int.

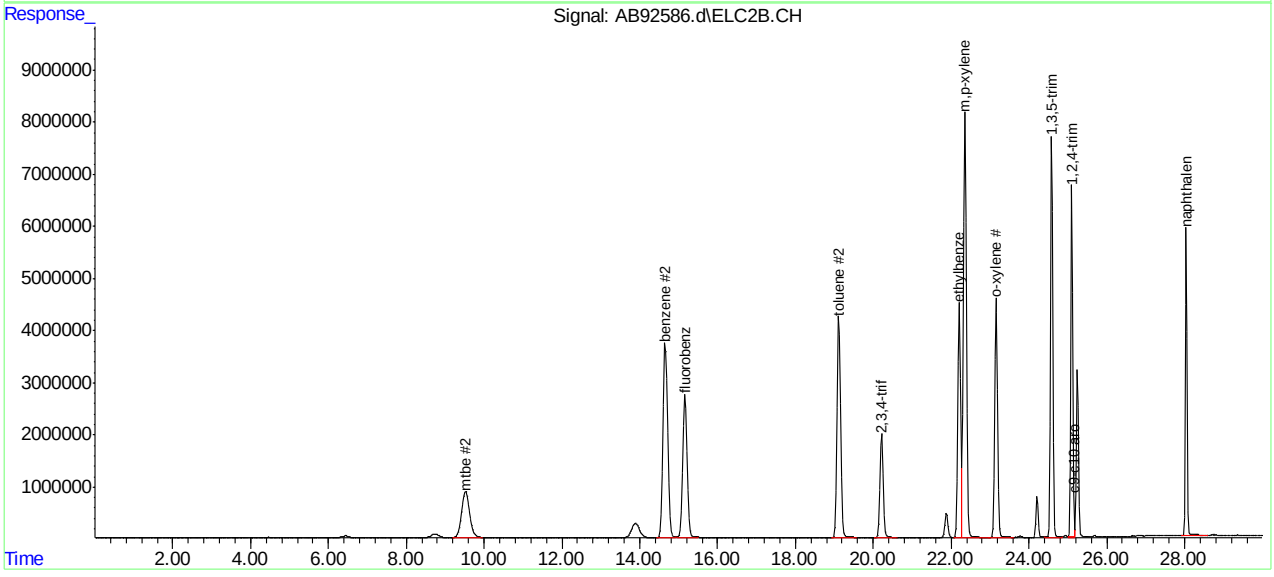
Quantitation Report (QT Reviewed)

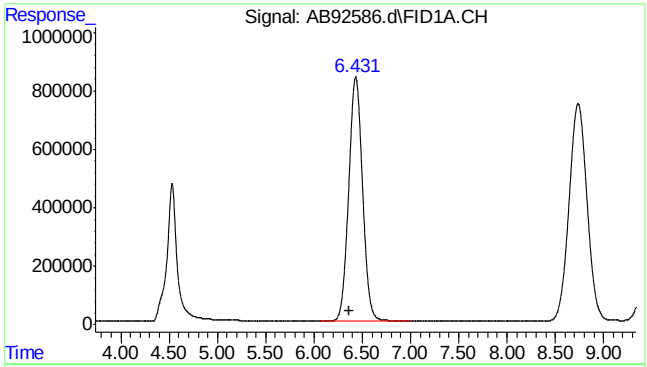
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:41:35
Operator : haleyn
Sample : ic5058-250
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

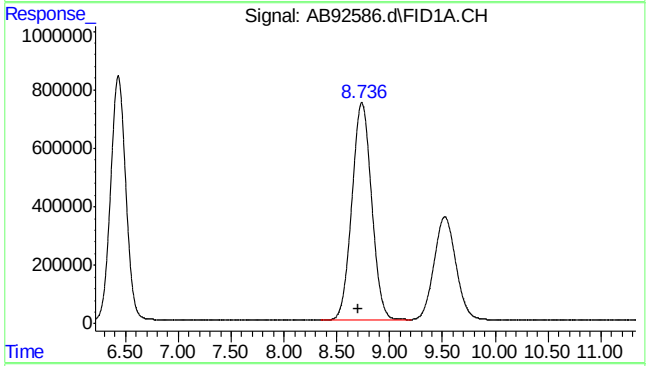






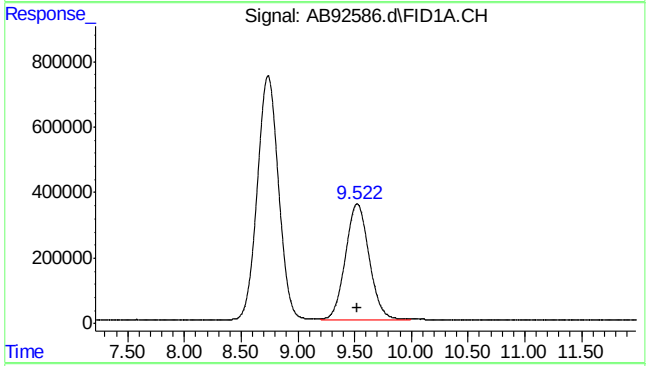
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 83244106
Conc: 220.83 ppb m



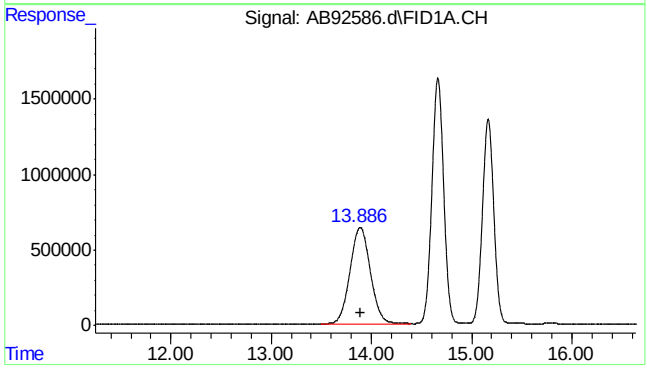
#2 rt7/10

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

7.4.3

7

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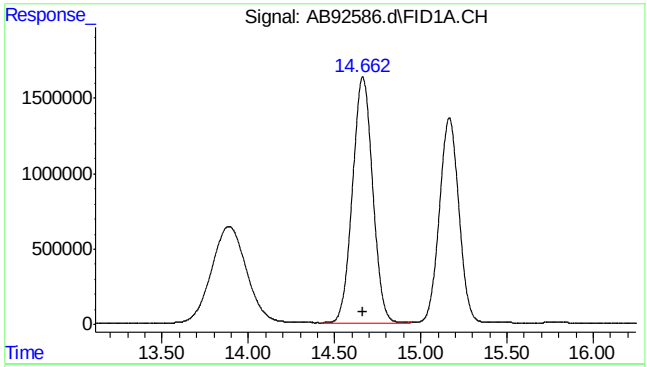
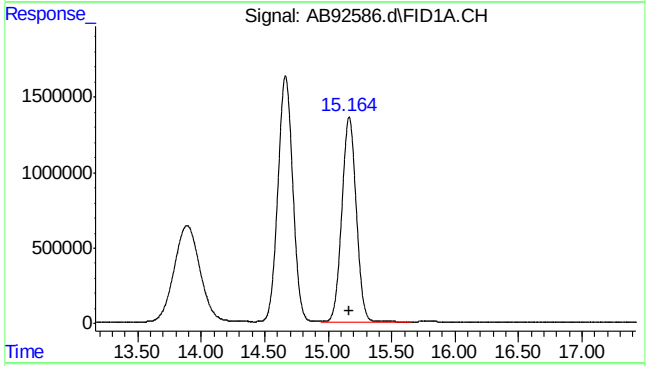


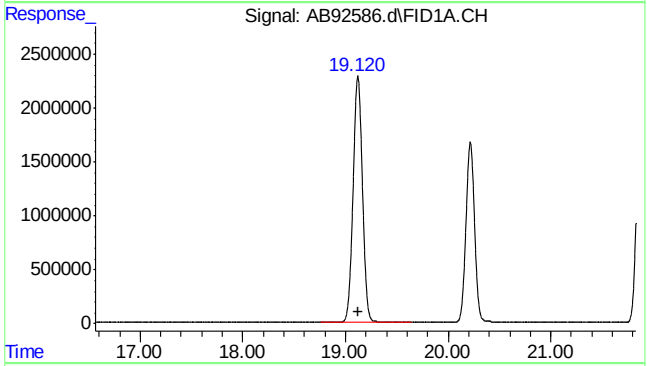
#5 benzene

R.T.: 14.663 min
Delta R.T.: -0.002 min
Response: 132502238
Conc: 240.50 ppb



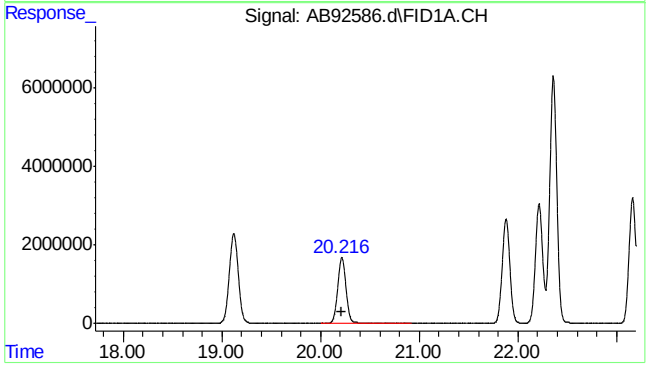
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: -0.002 min
Response: 107110583
Conc: 241.88 ppb



#8 toluene

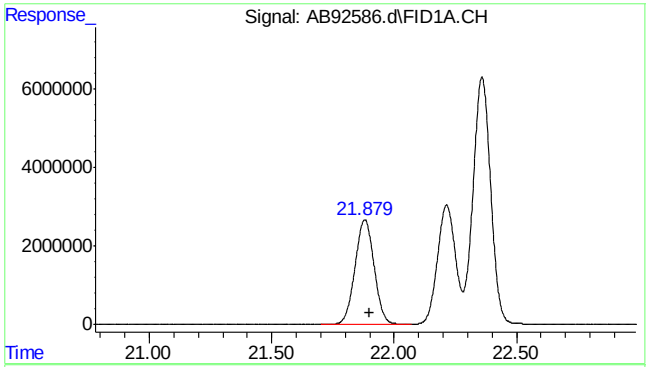
R.T.: 19.120 min
Delta R.T.: -0.002 min
Response: 144698734
Conc: 238.81 ppb



#9 2,3,4-trifluorotoluene

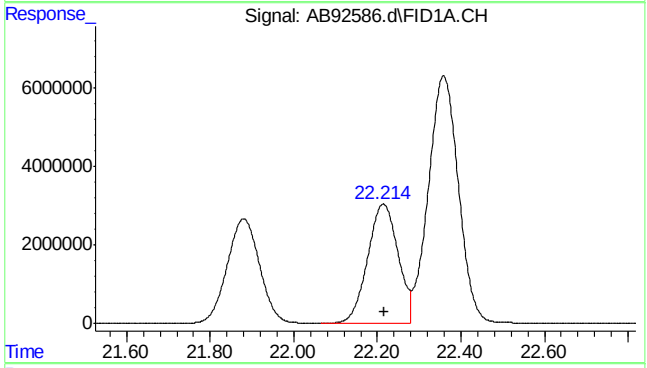
R.T.: 20.216 min
Delta R.T.: -0.002 min
Response: 97260456
Conc: 232.57 ppb

SGS ACCUTEST MC45538



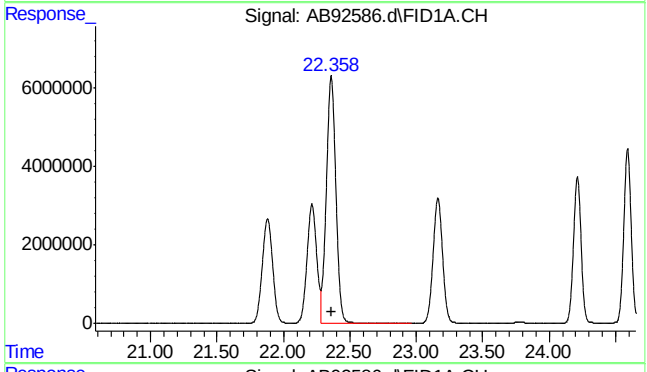
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 144023280
Conc: 234.31 ppb m



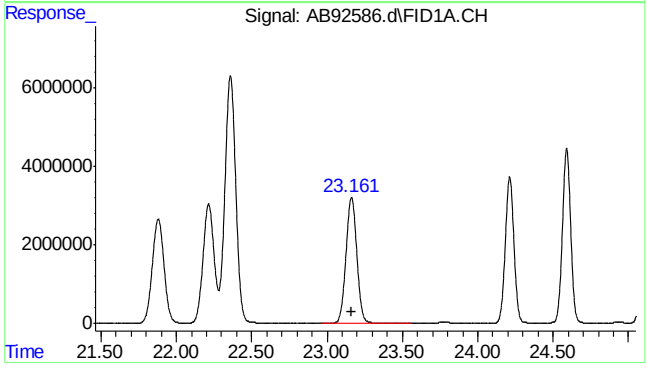
#13 ethylbenzene

R.T.: 22.214 min
Delta R.T.: -0.002 min
Response: 153475823
Conc: 238.68 ppb



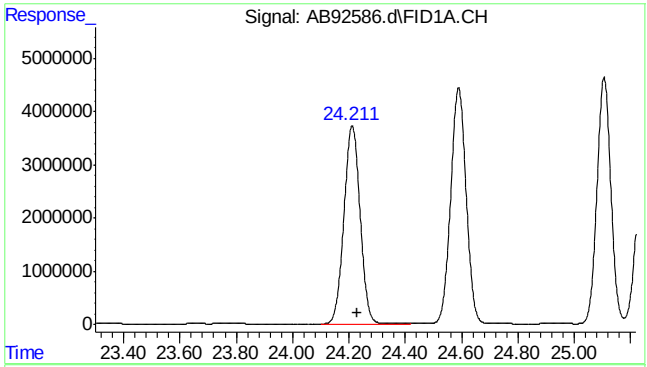
#14 m,p-xylene

R.T.: 22.359 min
Delta R.T.: -0.001 min
Response: 316722218
Conc: 472.21 ppb



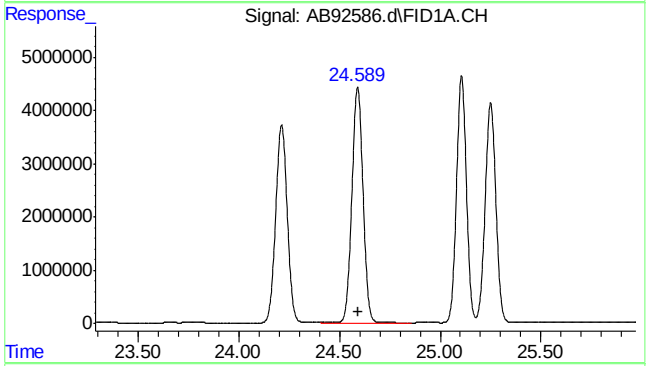
#15 o-xylene

R.T.: 23.162 min
Delta R.T.: -0.002 min
Response: 159273190
Conc: 237.23 ppb



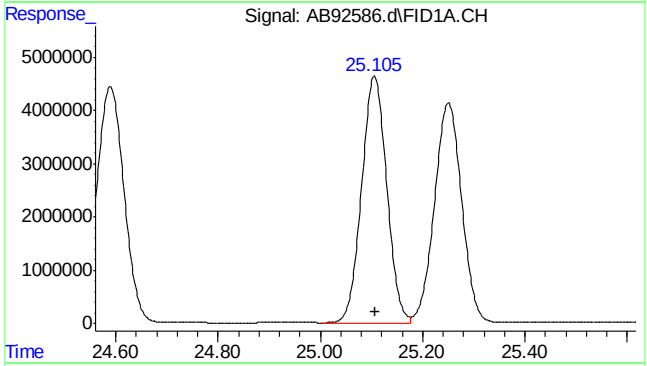
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 148414165
Conc: 234.86 ppb



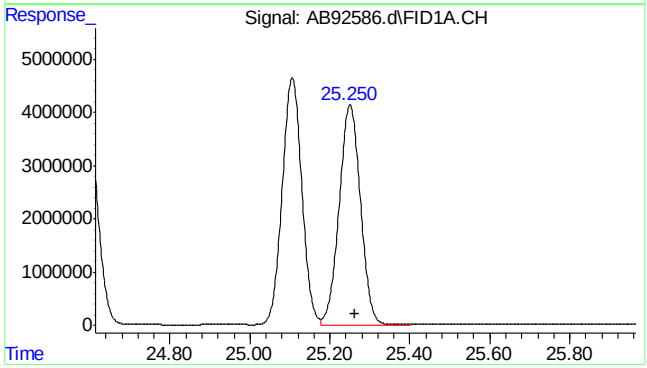
#17 1,3,5-trimethylbenzene

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

7.4.3

7

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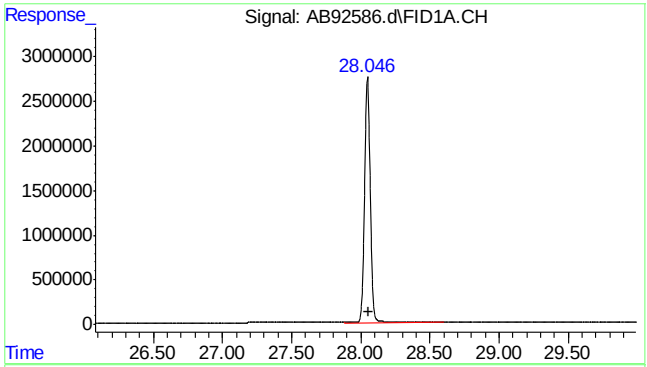
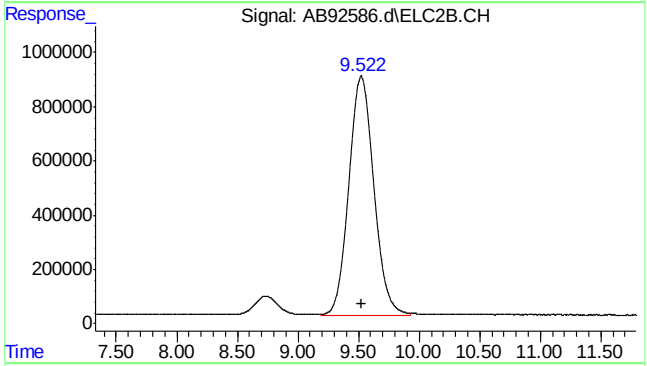


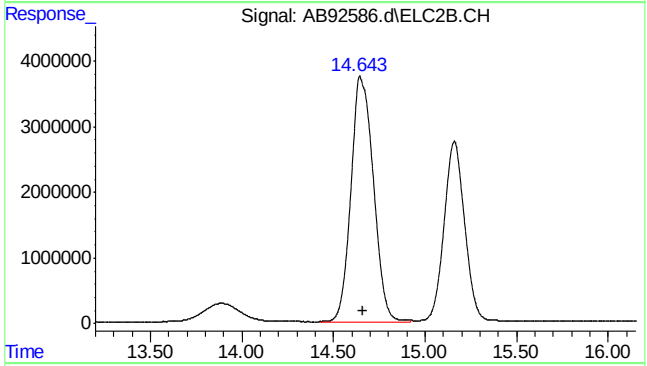
#20 naphthalene

R.T.: 28.047 min
Delta R.T.: -0.004 min
Response: 79292980
Conc: 204.03 ppb



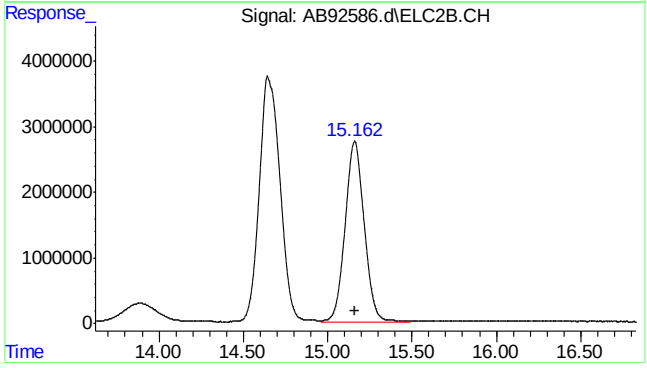
#23 mtbe #2

R.T.: 9.523 min
Delta R.T.: 0.000 min
Response: 126503933
Conc: 246.65 ppb



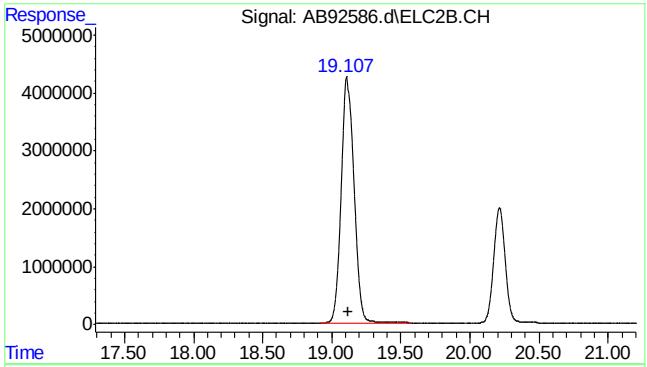
#24 benzene #2

R.T.: 14.641 min
Delta R.T.: -0.021 min
Response: 318344627
Conc: 230.47 ppb



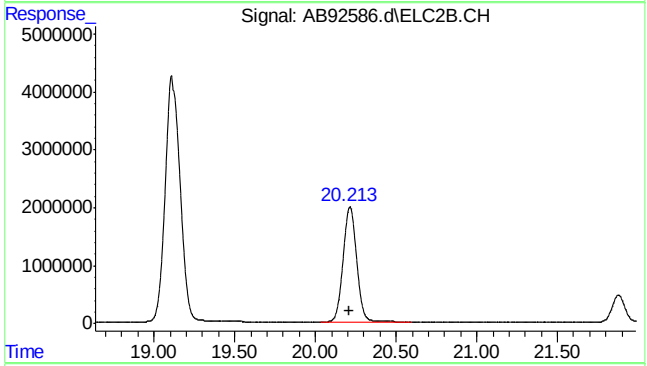
#25 fluorobenzene #2

R.T.: 15.161 min
Delta R.T.: 0.000 min
Response: 215884692
Conc: 247.38 ppb



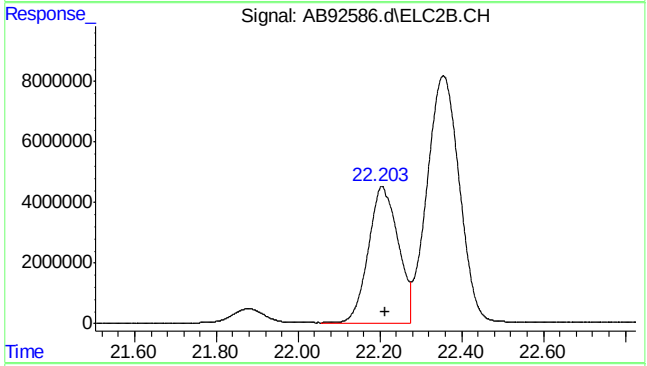
#26 toluene #2

R.T.: 19.106 min
Delta R.T.: -0.014 min
Response: 274838756
Conc: 224.90 ppb



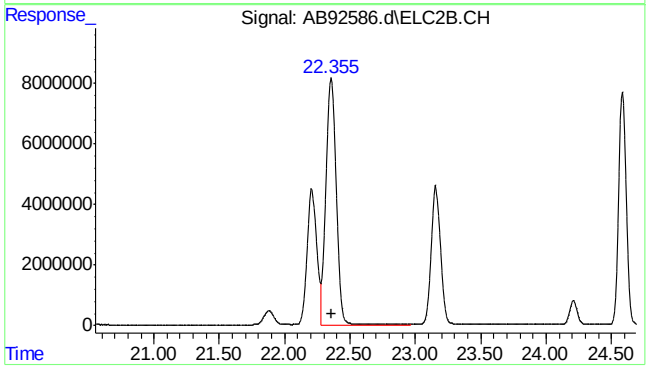
#27 2,3,4-trifluorotoluene #2

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

7.4.3

7

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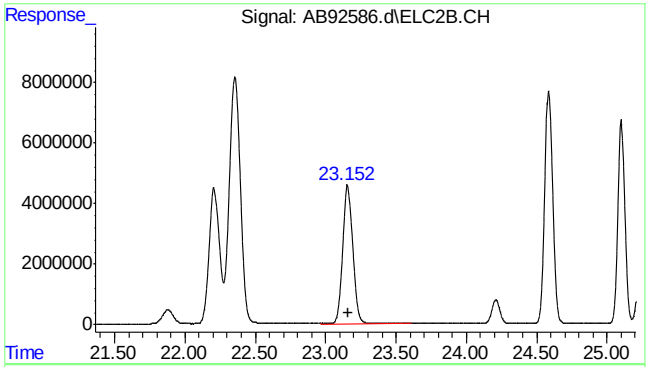
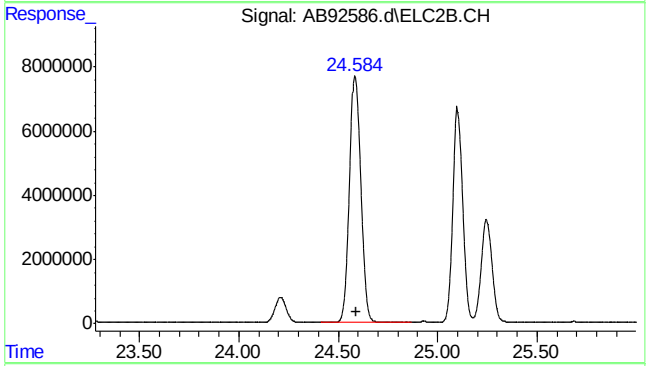


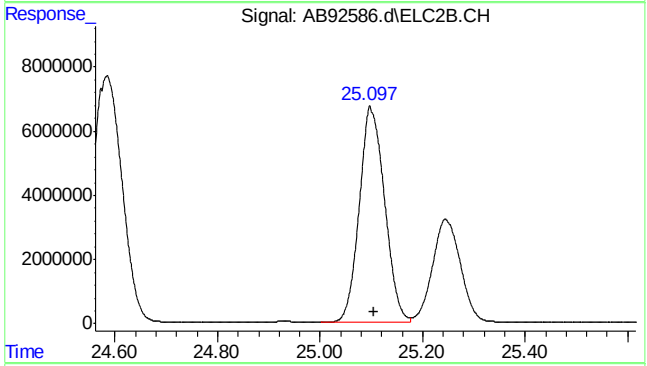
#30 o-xylene #2

R.T.: 23.154 min
Delta R.T.: -0.008 min
Response: 229262939
Conc: 229.59 ppb



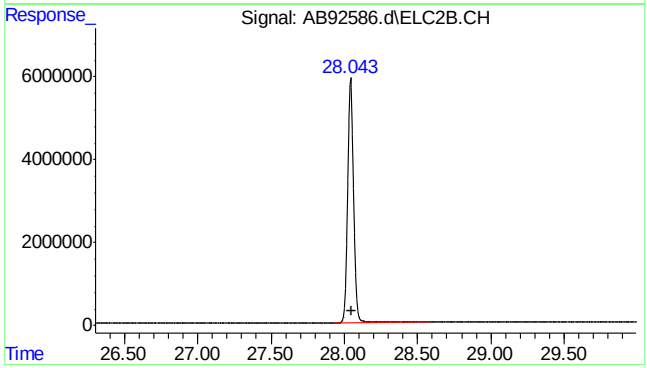
#31 1,3,5-trimethylbenzene #2

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



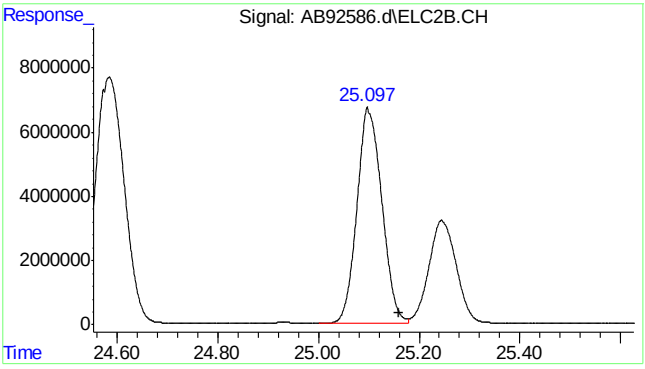
#33 naphthalene #2

R.T.: 28.043 min
Delta R.T.: -0.004 min
Response: 164135600
Conc: 197.83 ppb m

7.4.3

7

SGS ACCUTEST MC45538



#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

7.4.3

7

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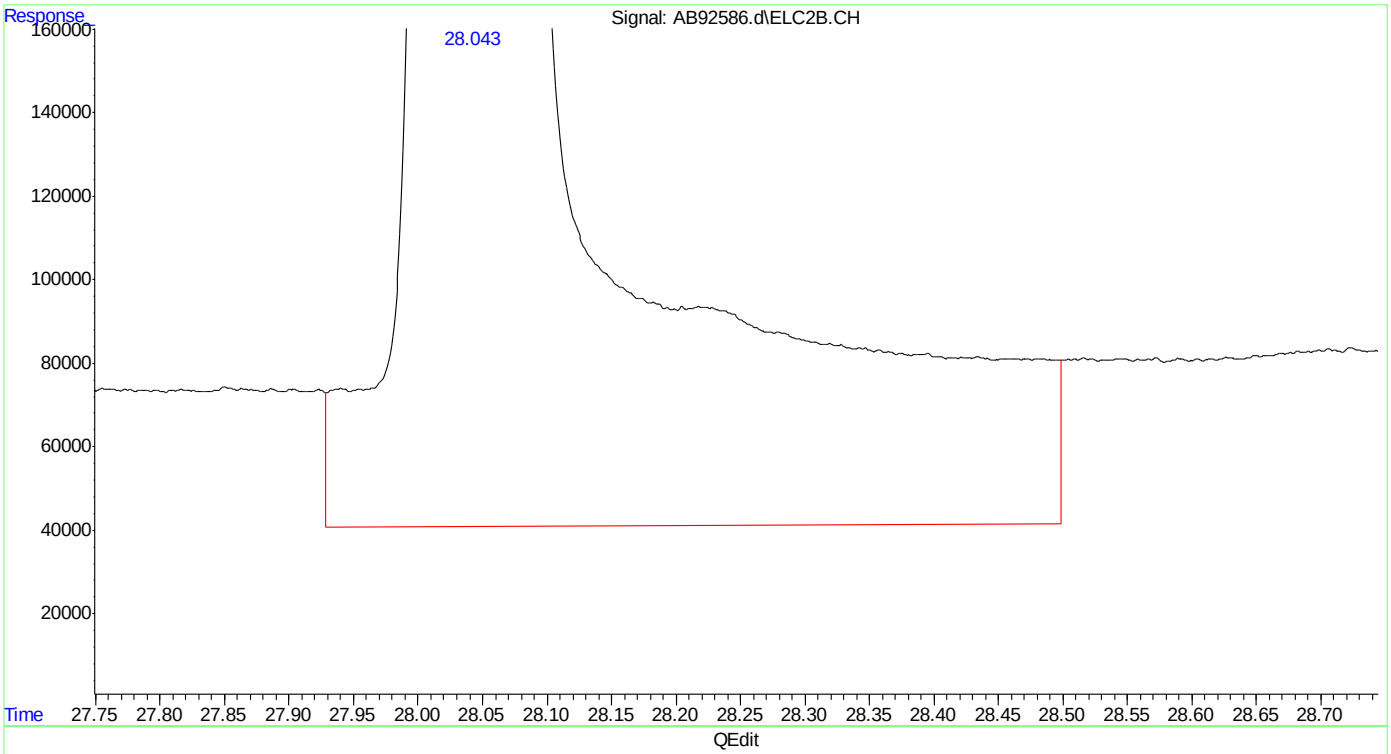
Quantitation Report (Qedit)

```
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

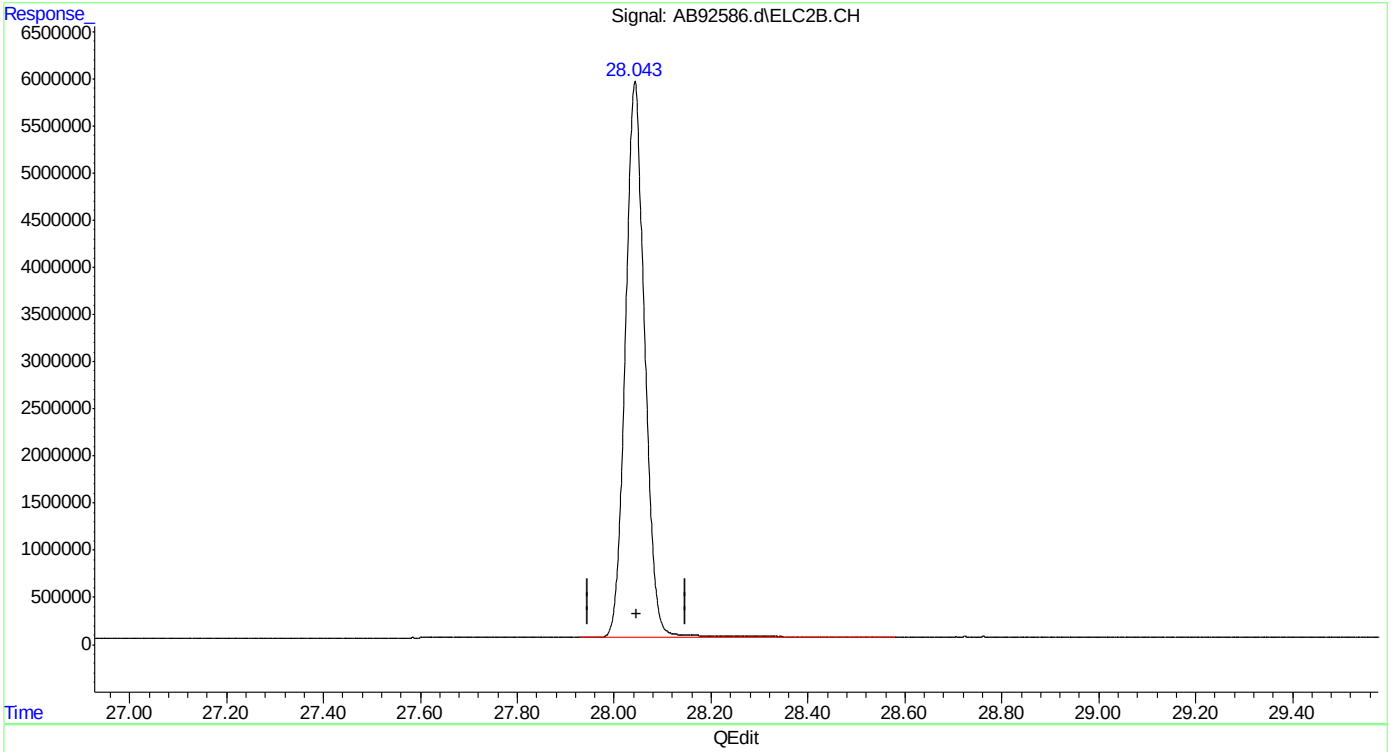
ab160112vphmaster.M Tue Jan 12 14:13:29 2016

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

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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 : 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.

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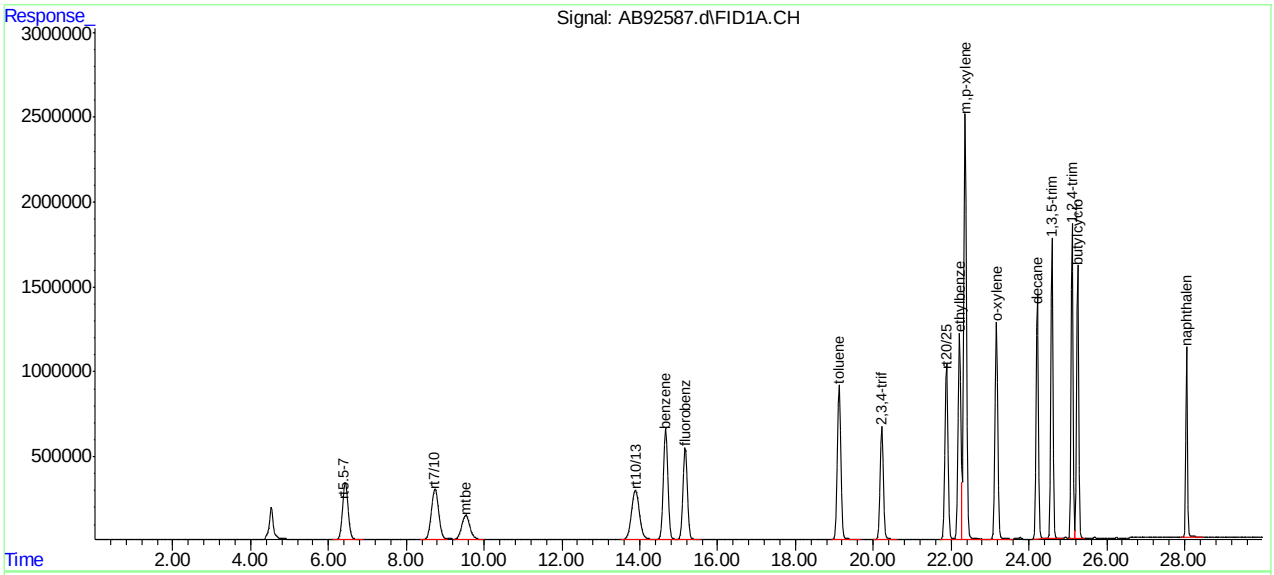
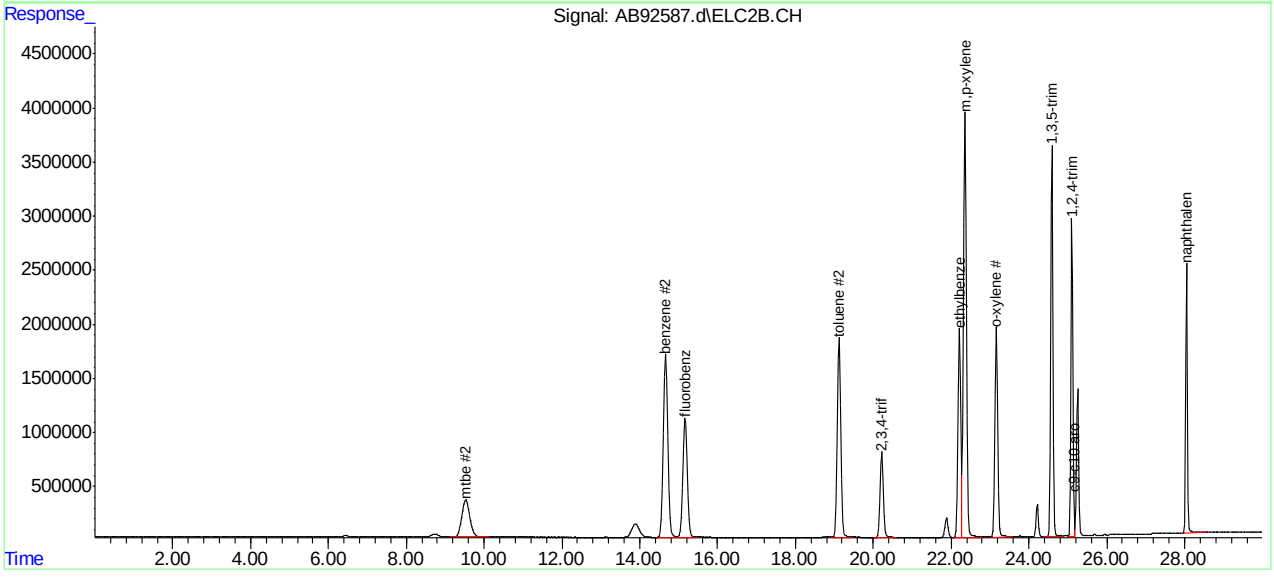
Quantitation Report (QT Reviewed)

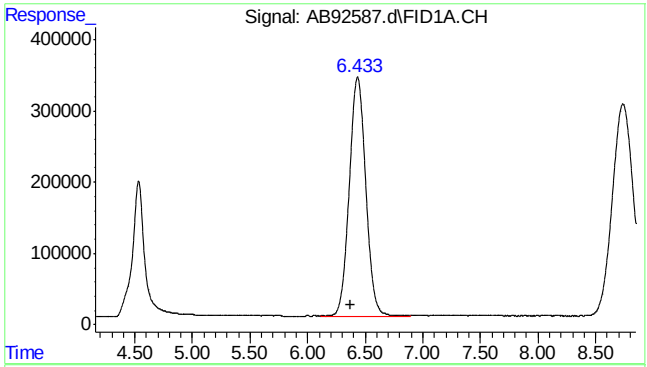
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

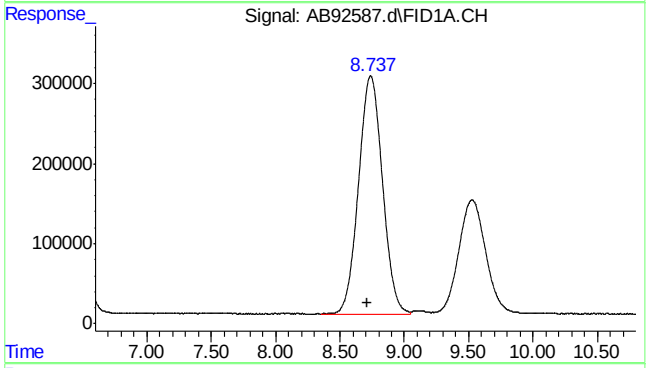






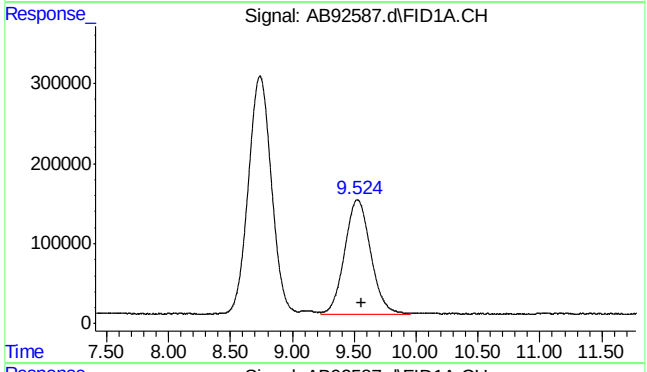
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 33420619
Conc: 86.69 ppb m



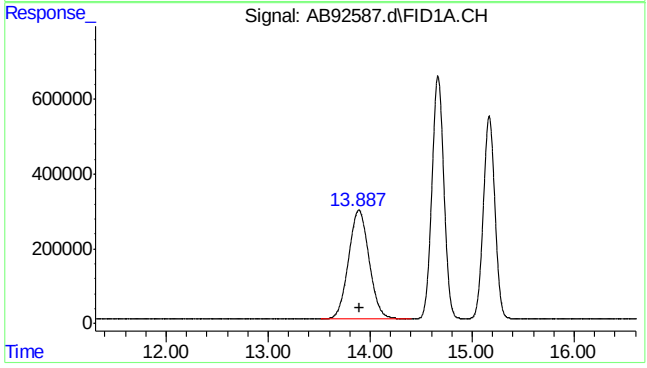
#2 rt7/10

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

7.4.4

7

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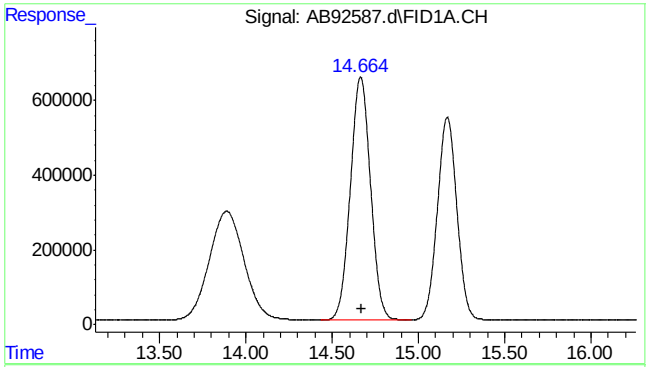
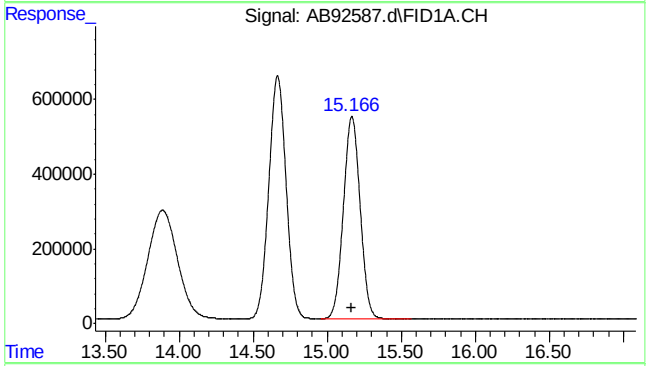


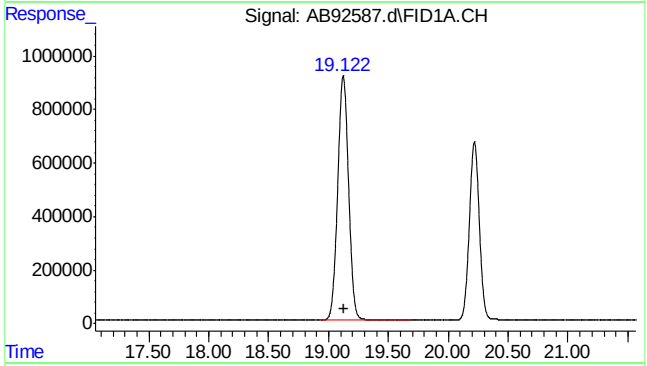
#5 benzene

R.T.: 14.665 min
Delta R.T.: -0.009 min
Response: 52977749
Conc: 95.43 ppb



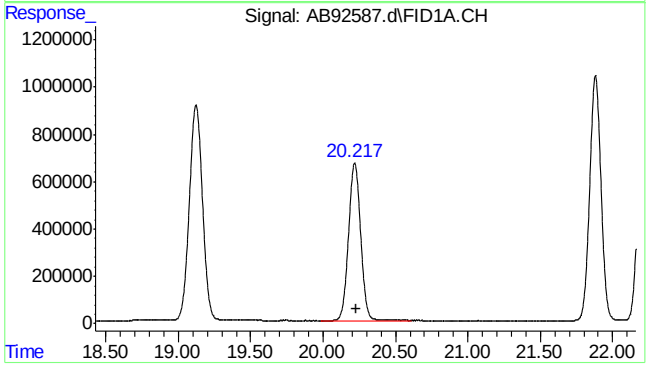
#6 fluorobenzene

R.T.: 15.167 min
Delta R.T.: -0.002 min
Response: 42874905
Conc: 96.21 ppb



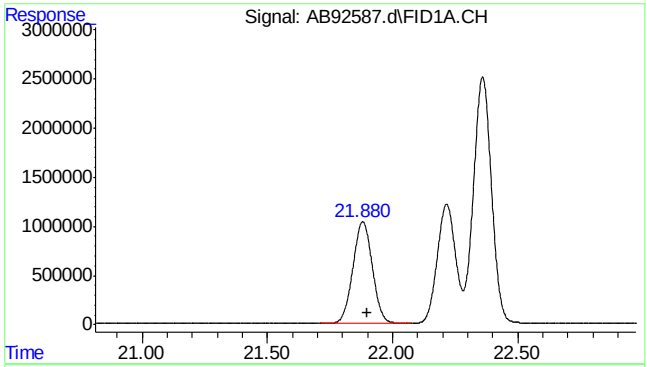
#8 toluene

R.T.: 19.122 min
Delta R.T.: -0.006 min
Response: 57912641
Conc: 94.74 ppb



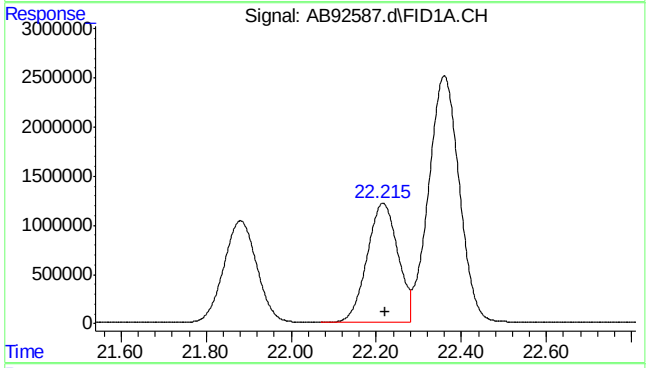
#9 2,3,4-trifluorotoluene

R.T.: 20.218 min
Delta R.T.: -0.014 min
Response: 38719163
Conc: 91.23 ppb



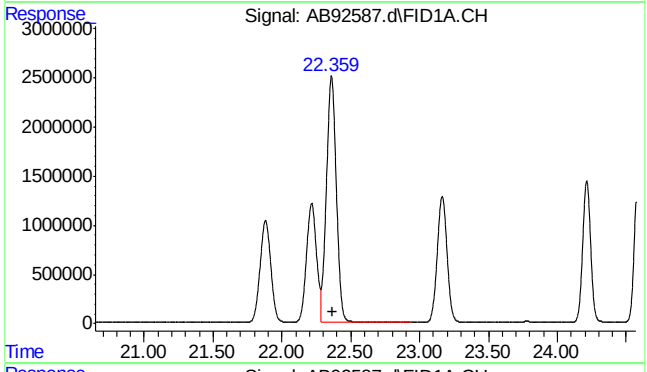
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 55977584
Conc: 89.47 ppb m



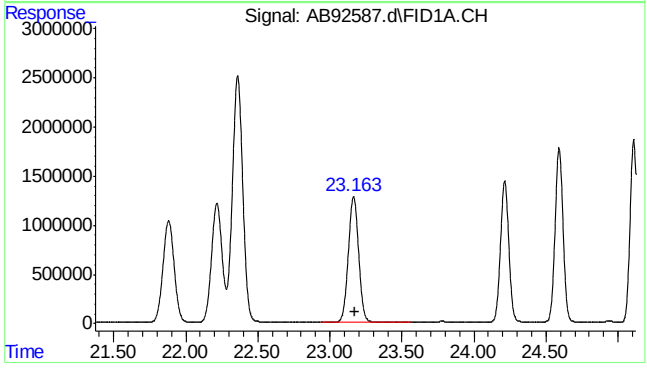
#13 ethylbenzene

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

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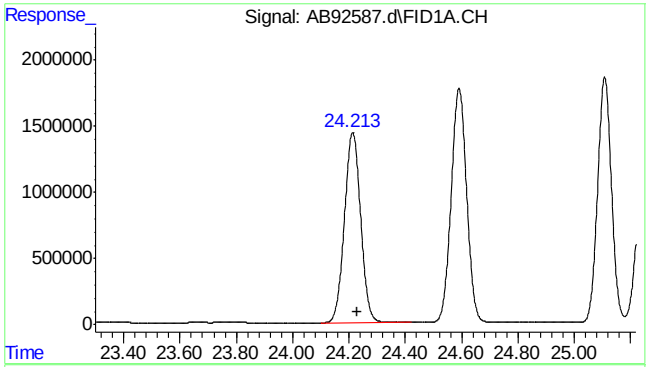
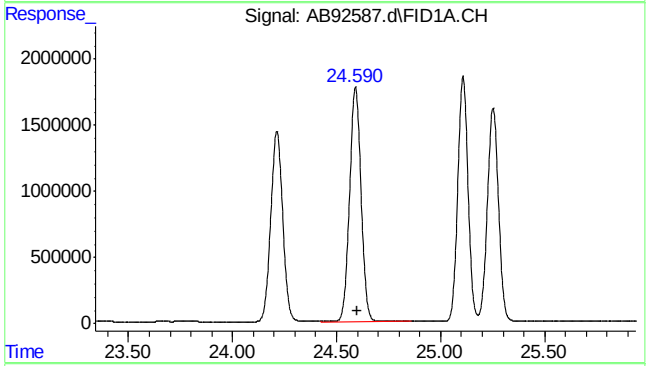


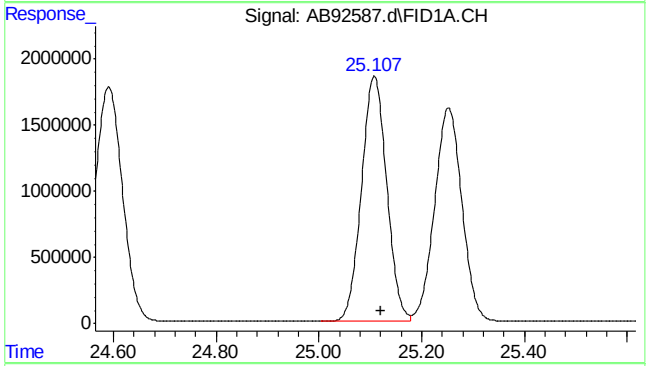
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 57632960
Conc: 89.63 ppb



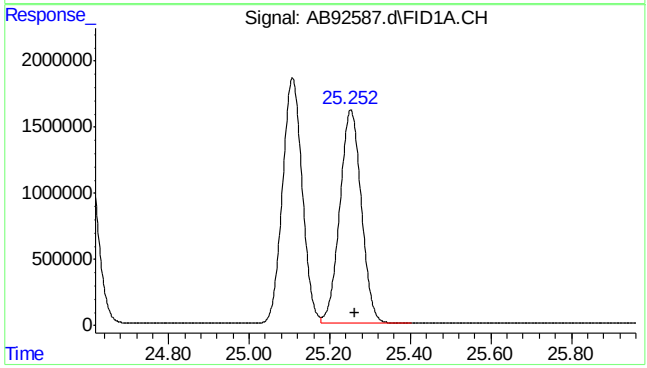
#17 1,3,5-trimethylbenzene

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



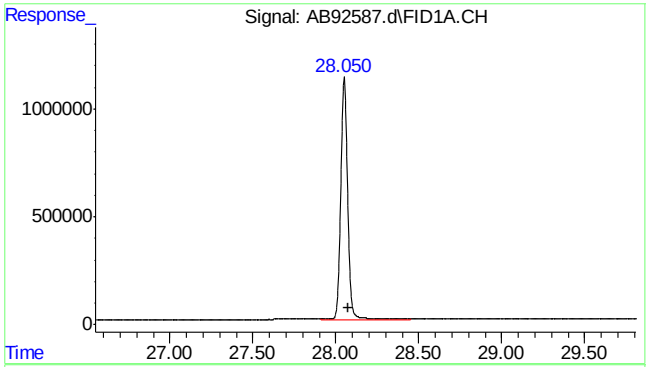
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 60198202
Conc: 84.98 ppb m

7.4.4

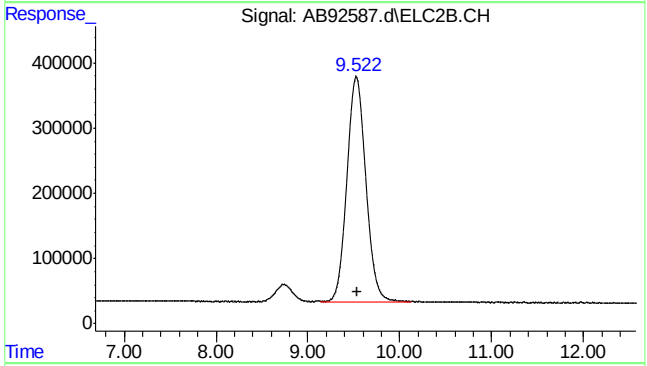
7

SGS ACCUTEST MC45538



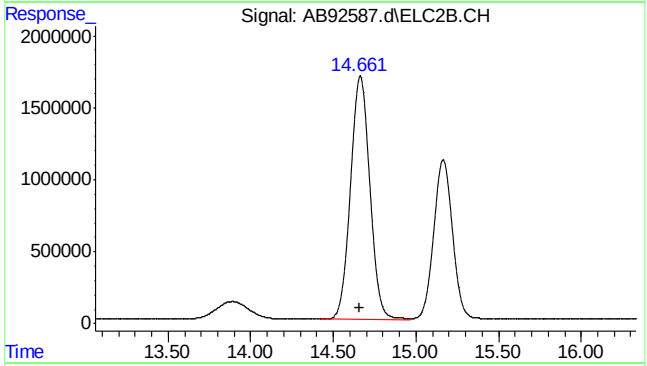
#20 naphthalene

R.T.: 28.051 min
Delta R.T.: -0.026 min
Response: 33356972
Conc: 83.46 ppb



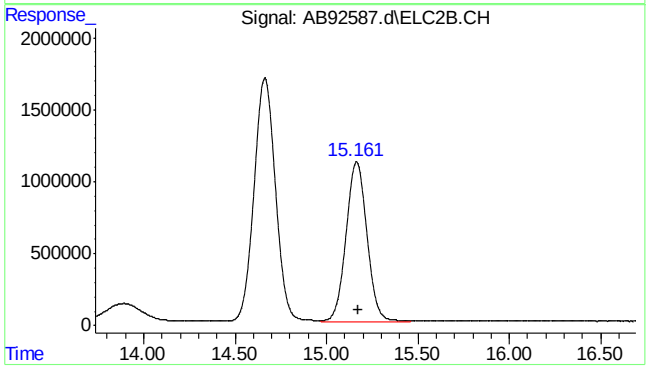
#23 mtbe #2

R.T.: 9.522 min
Delta R.T.: -0.018 min
Response: 49818196
Conc: 96.58 ppb m



#24 benzene #2

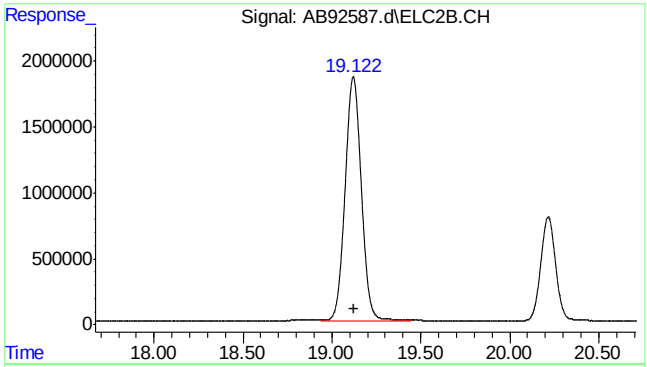
R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 137692860
Conc: 99.62 ppb



#25 fluorobenzene #2

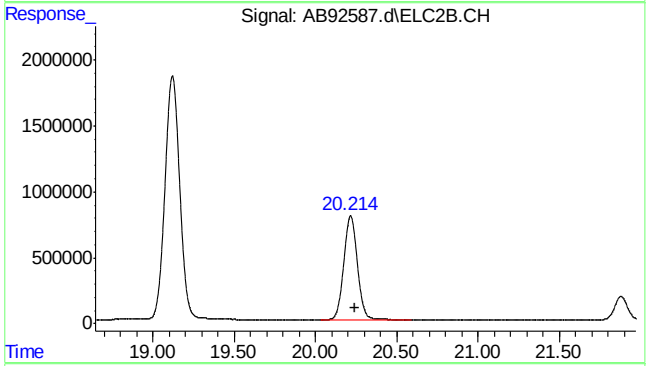
R.T.: 15.162 min
Delta R.T.: -0.012 min
Response: 87953233
Conc: 100.94 ppb

SGS ACCUTEST MC45538



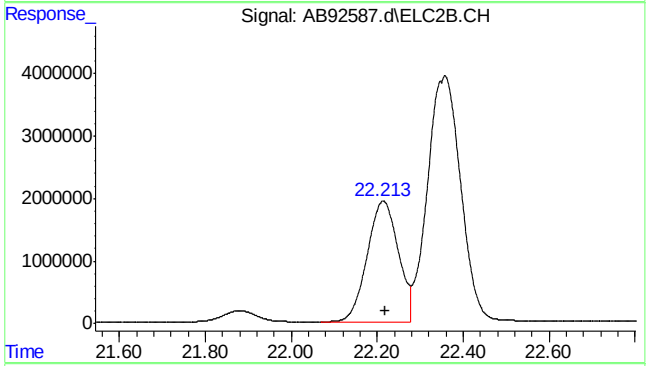
#26 toluene #2

R.T.: 19.120 min
Delta R.T.: -0.006 min
Response: 117752936
Conc: 95.66 ppb



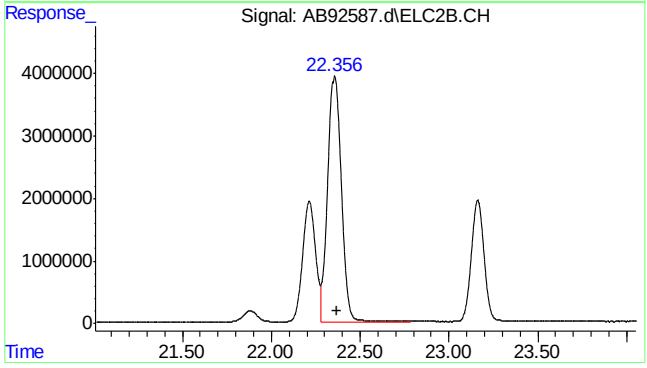
#27 2,3,4-trifluorotoluene #2

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



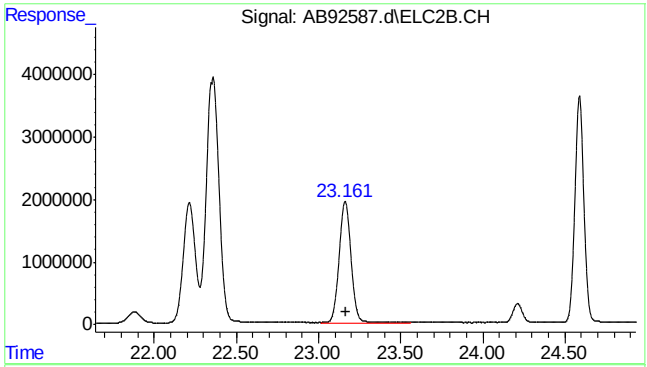
#29 m,p-xylene #2

R.T.: 22.357 min
Delta R.T.: -0.012 min
Response: 212950656
Conc: 175.33 ppb

7.4.4

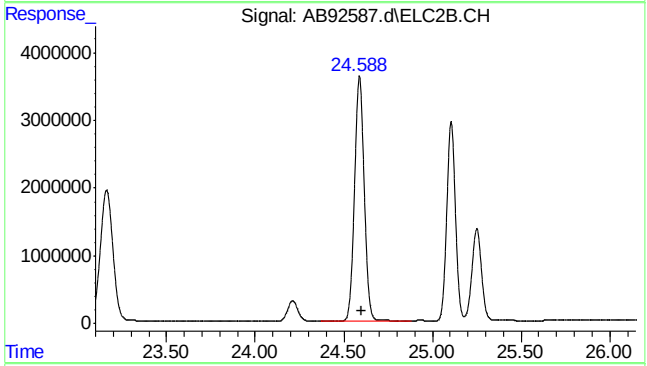
7

SGS ACCUTEST MC45538



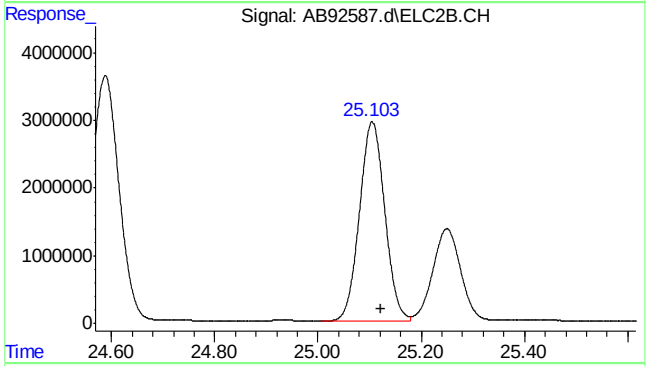
#30 o-xylene #2

R.T.: 23.162 min
Delta R.T.: -0.008 min
Response: 97755578
Conc: 97.48 ppb



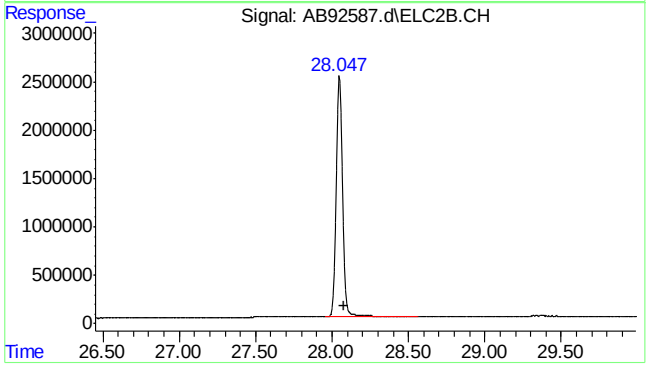
#31 1,3,5-trimethylbenzene #2

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



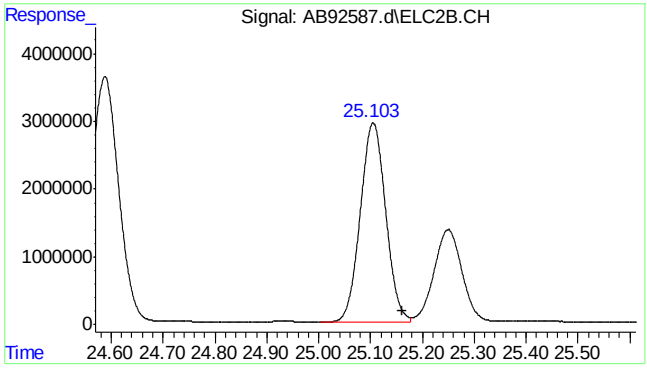
#33 naphthalene #2

R.T.: 28.047 min
Delta R.T.: -0.028 min
Response: 72366482
Conc: 85.05 ppb m

7.4.4

7

SGS ACCUTEST MC45538




```
#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
```

7.4.4

7

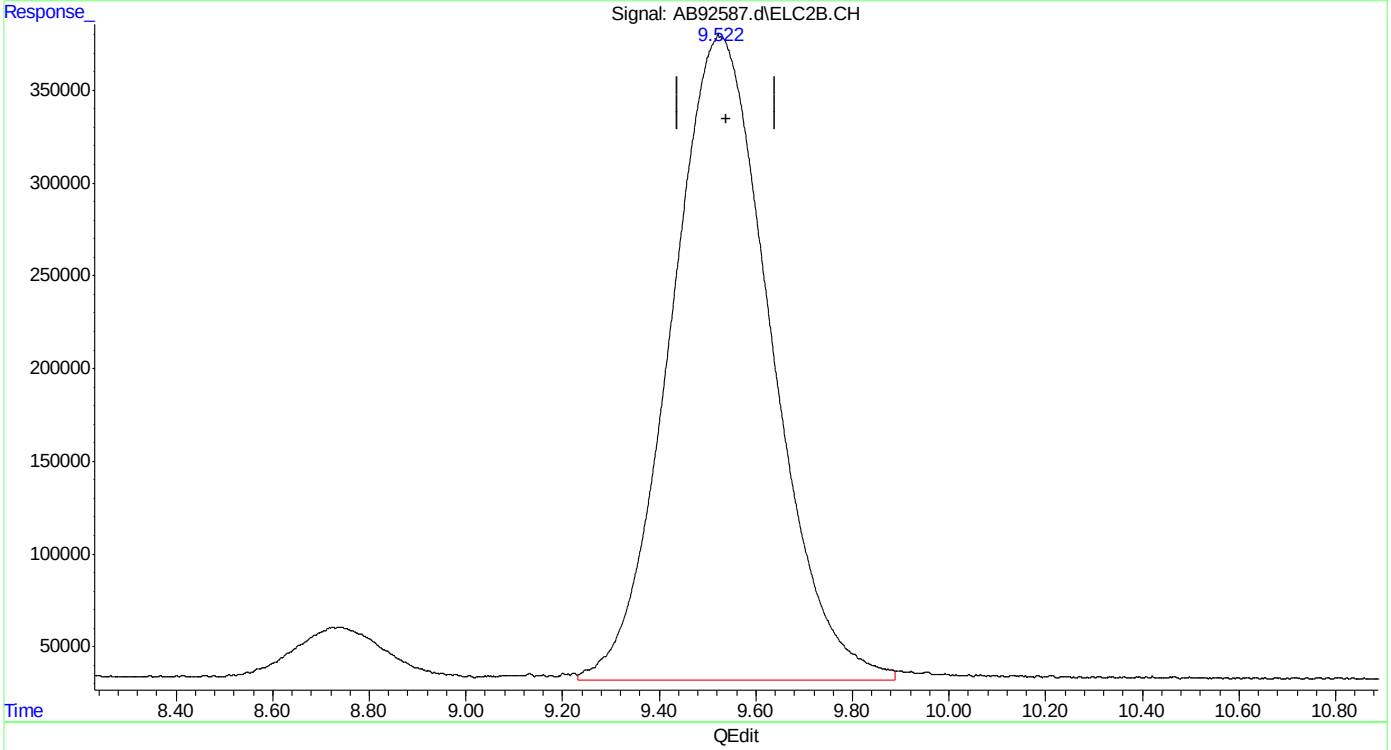
SGS ACCUTEST MC45538

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 Page: 1

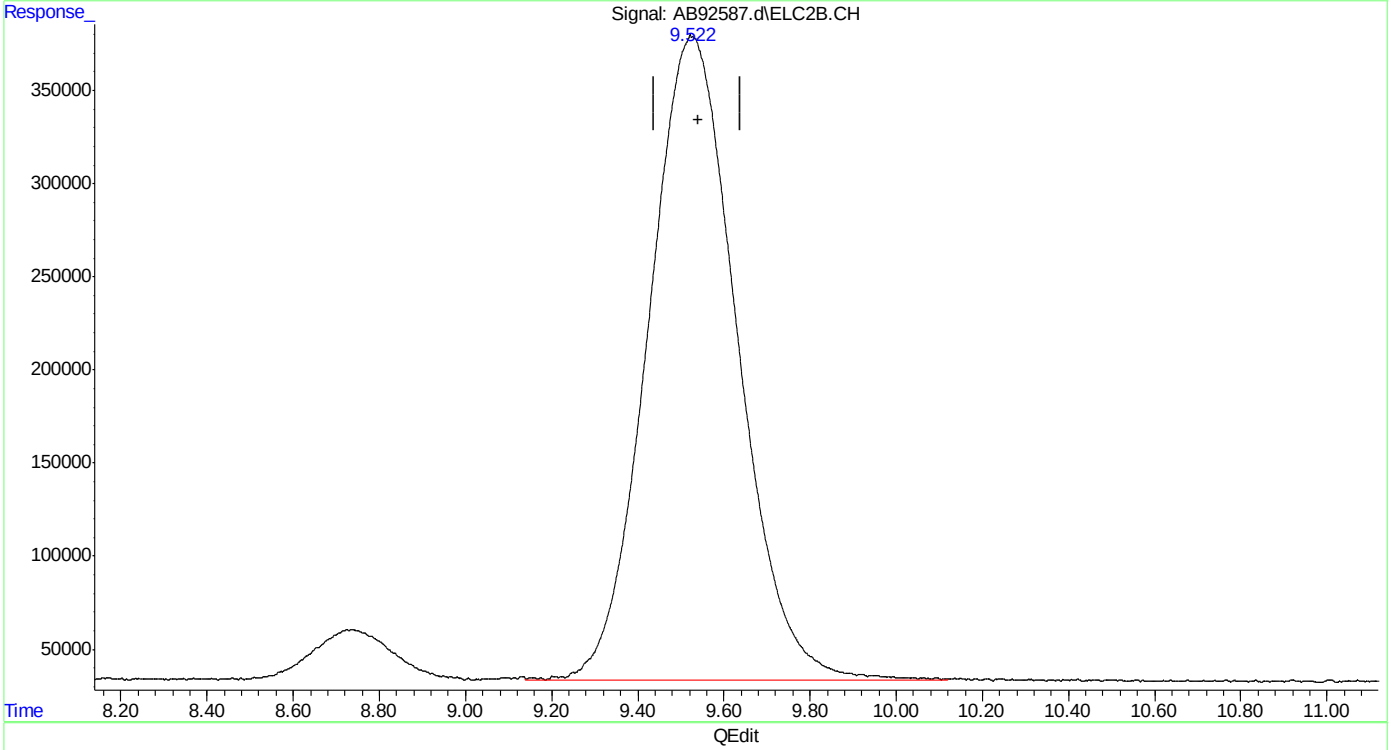
SGS ACCUTEST MC45538

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

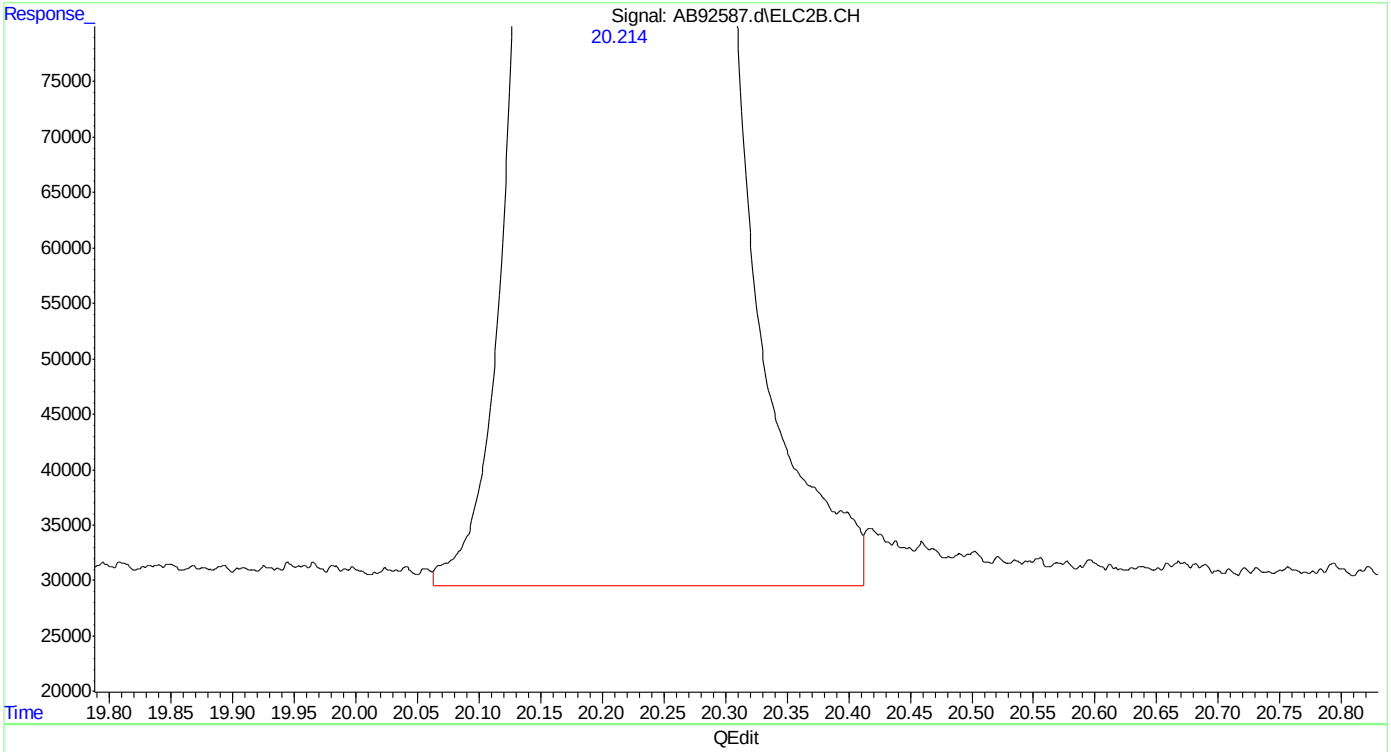
(+) = Expected Retention Time

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

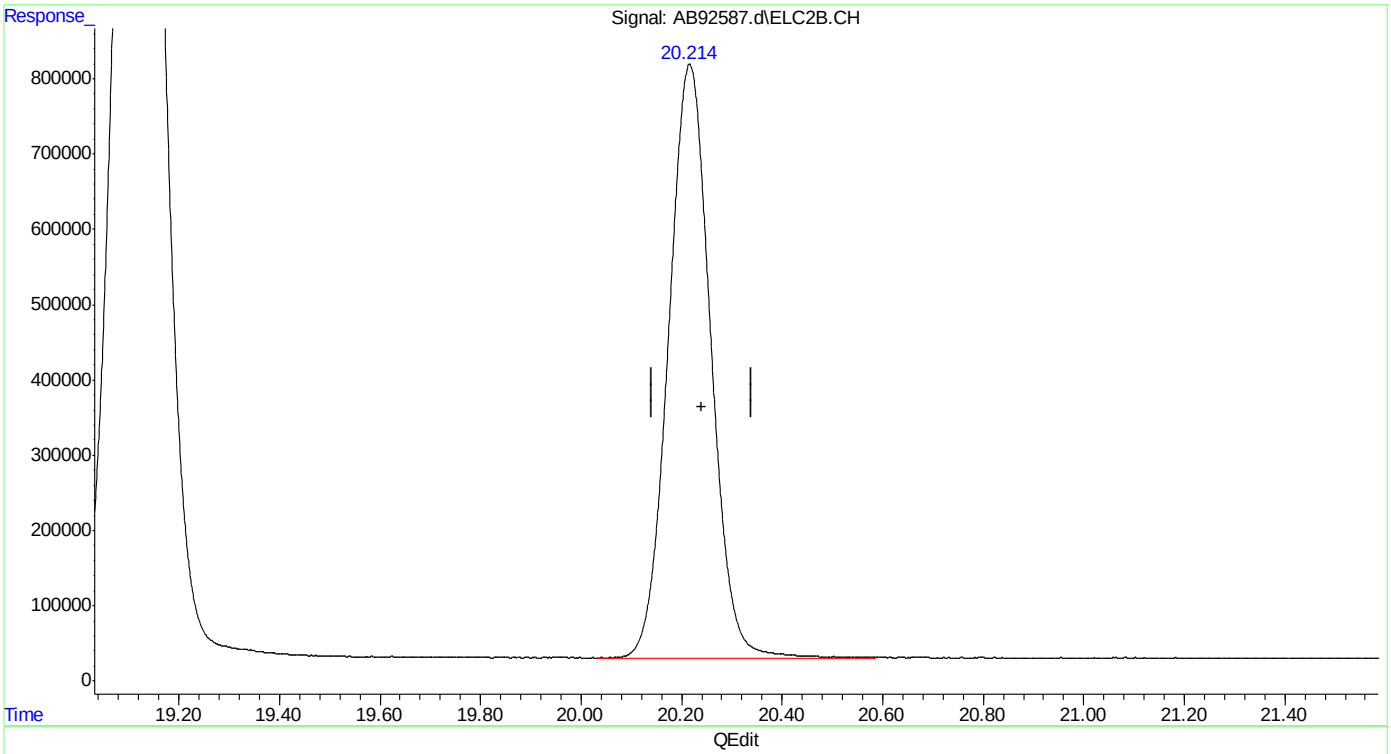
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:10:10 2016

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

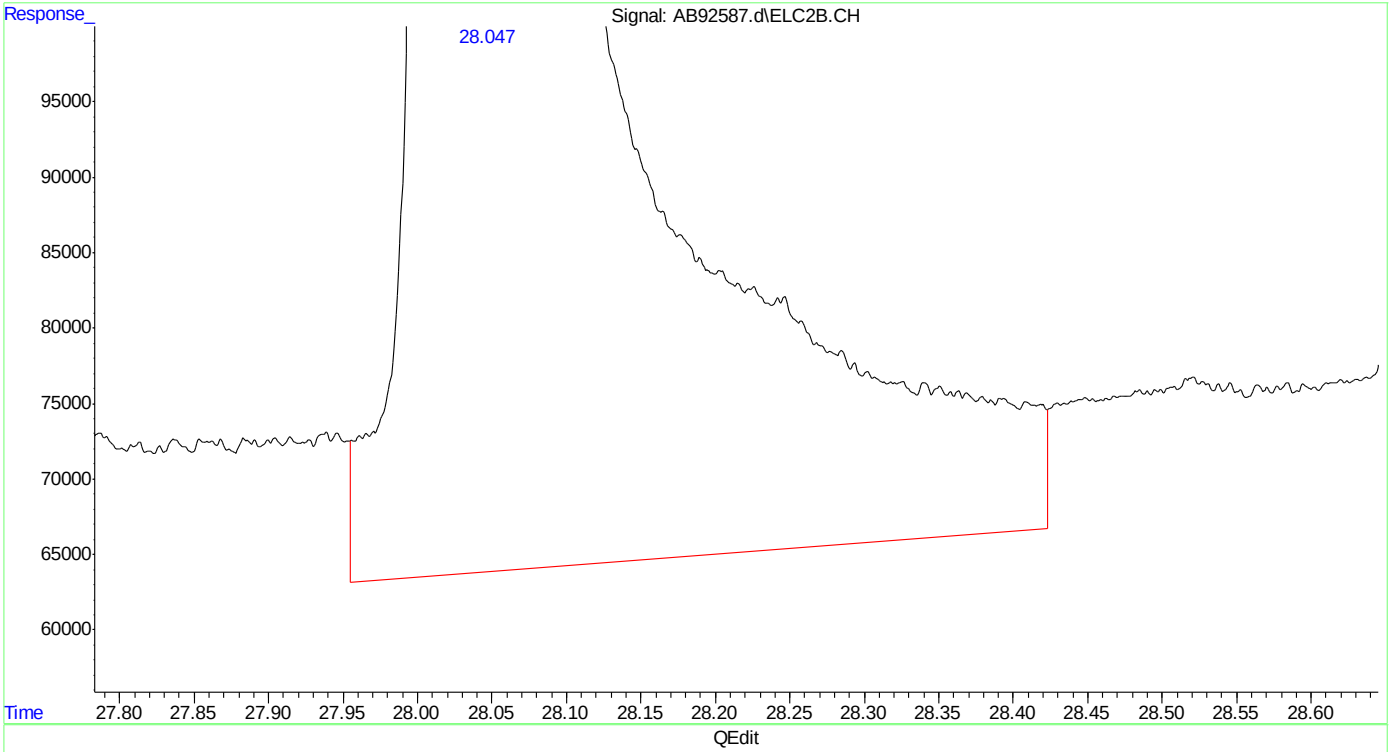
SGS ACCUTEST MC45538

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

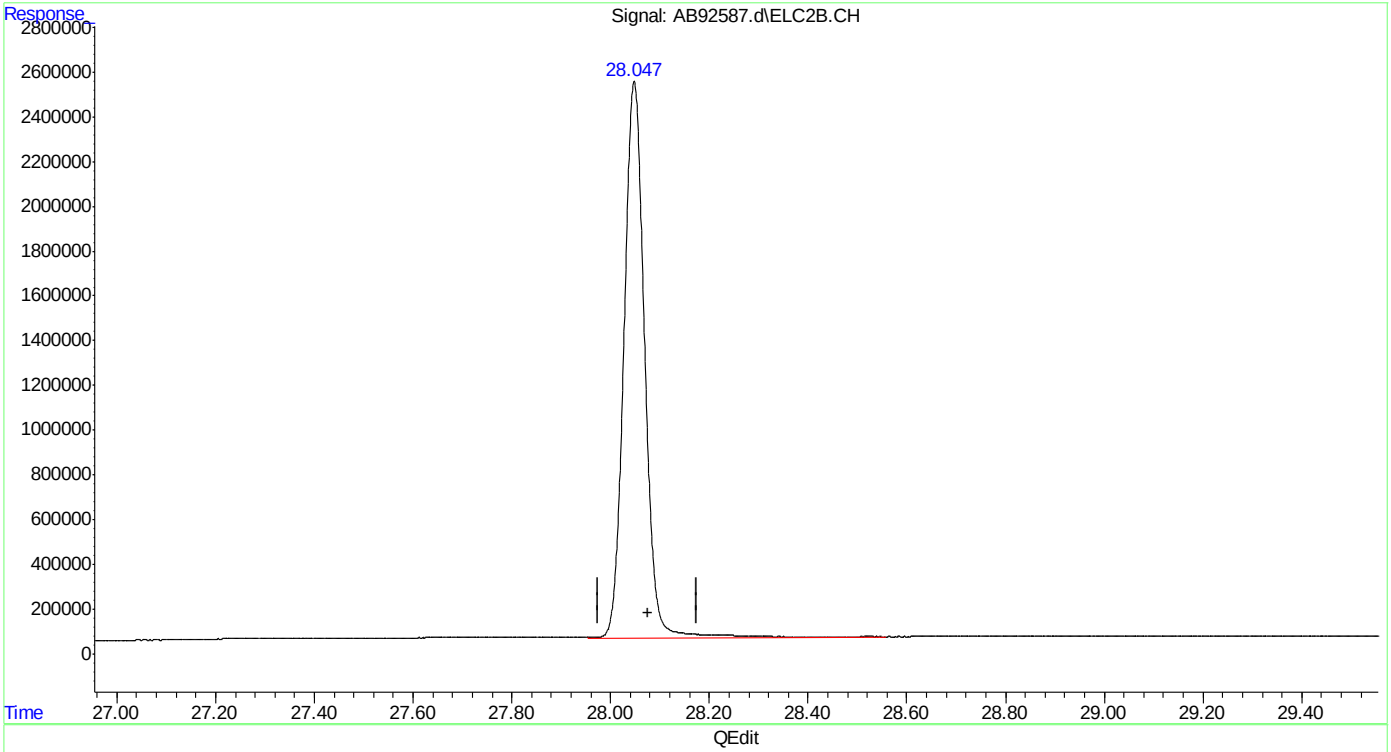
SGS ACCUTEST MC45538

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 MC45538

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

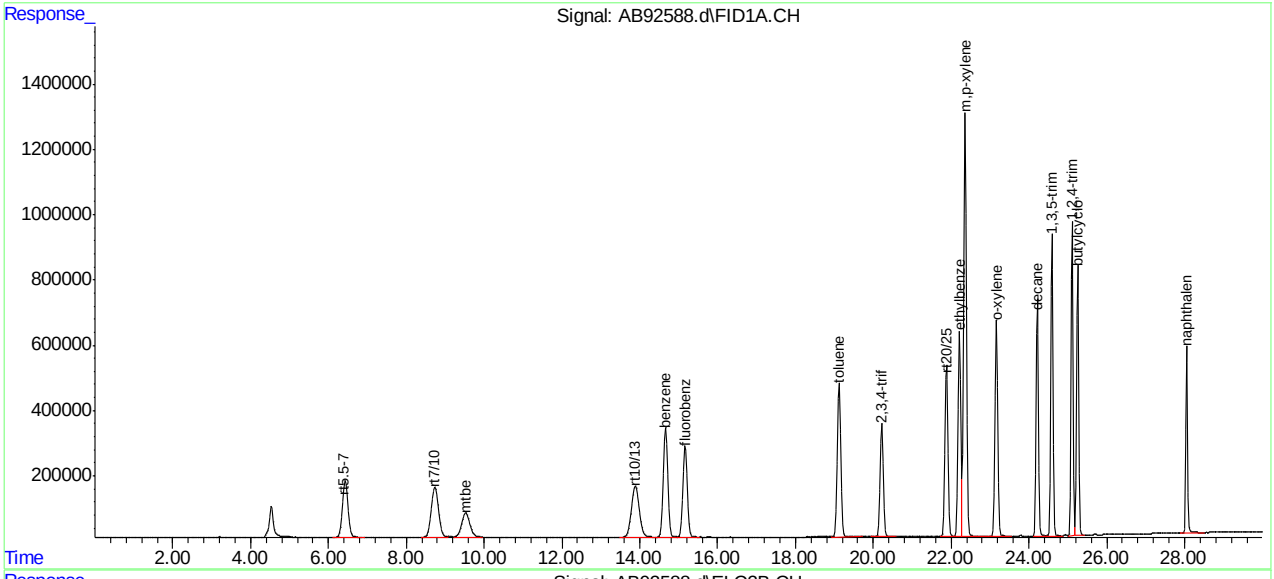
(f)=RT Delta > 1/2 Window (m)=manual int.

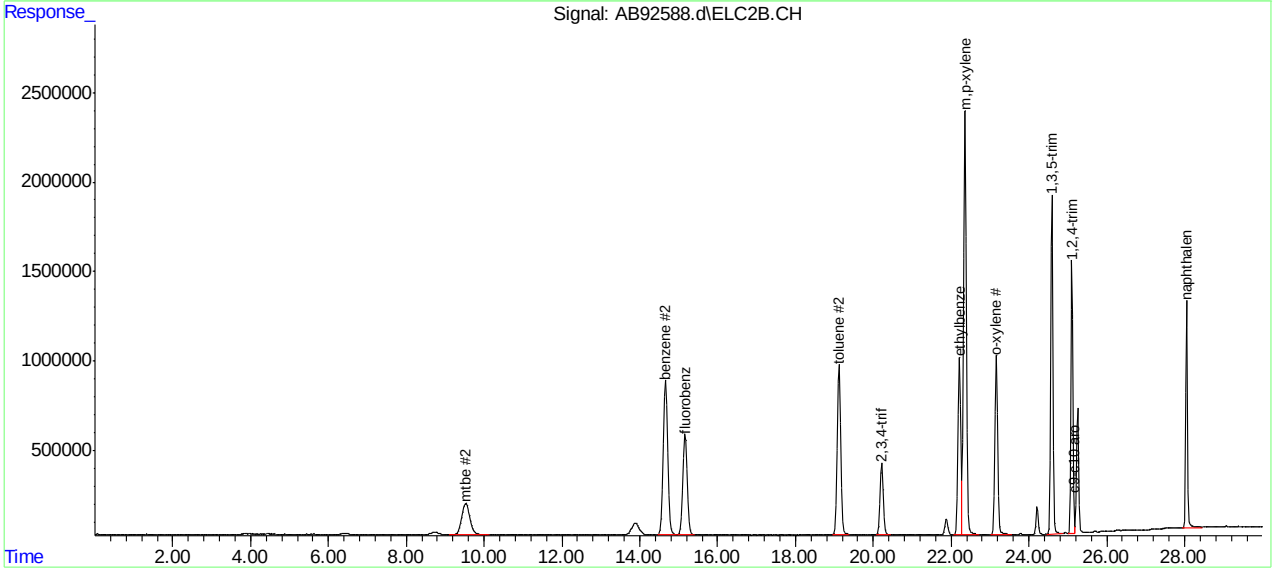
Quantitation Report (QT Reviewed)

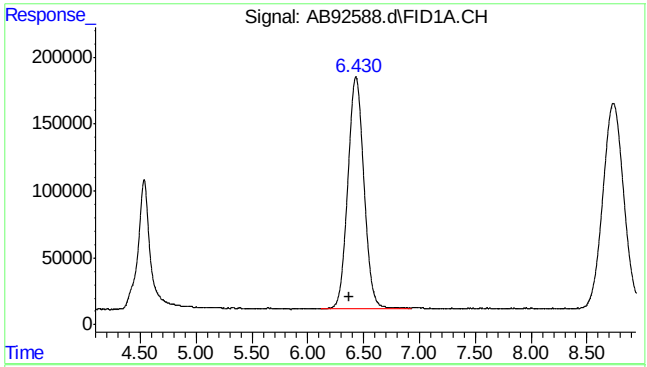
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

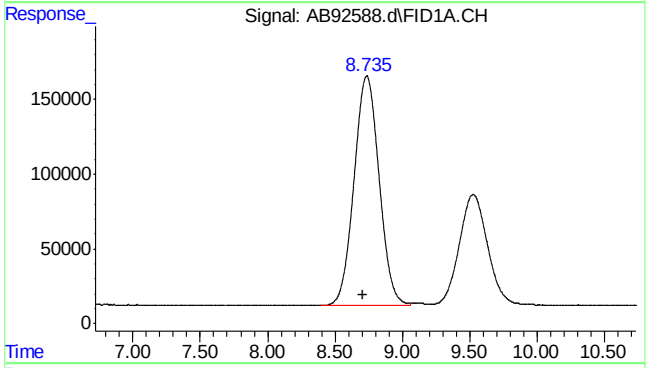






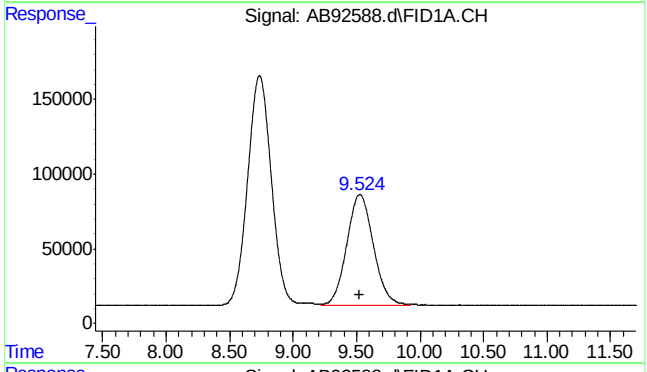
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 17341856
Conc: 50.02 ppb m



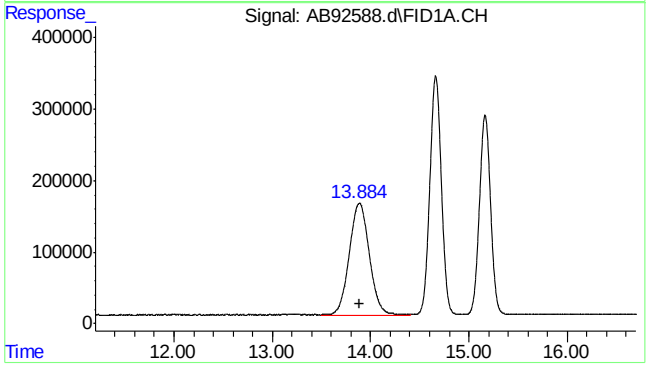
#2 rt7/10

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

7.4.5

7

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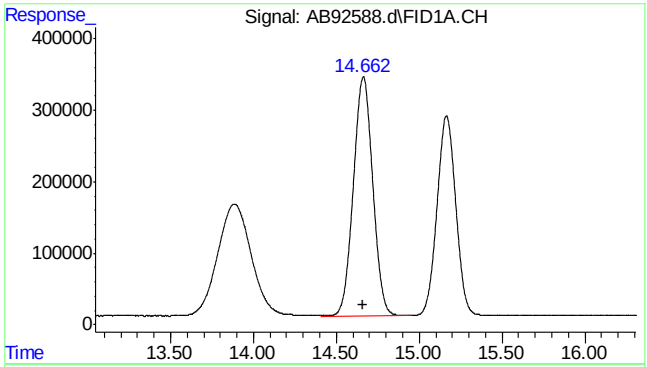
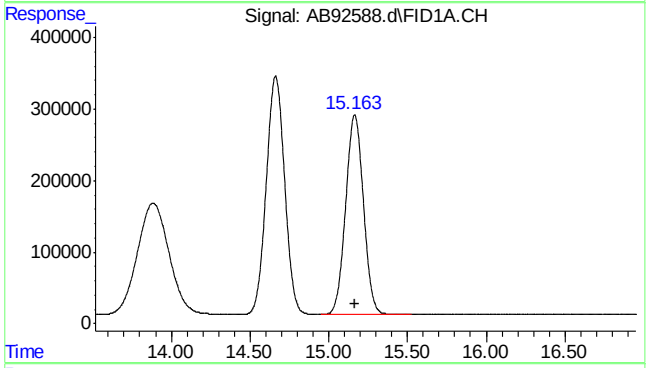


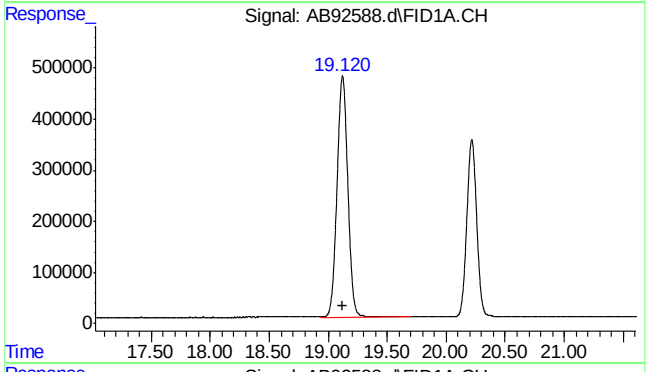
#5 benzene

R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 27232844
Conc: 50.00 ppb



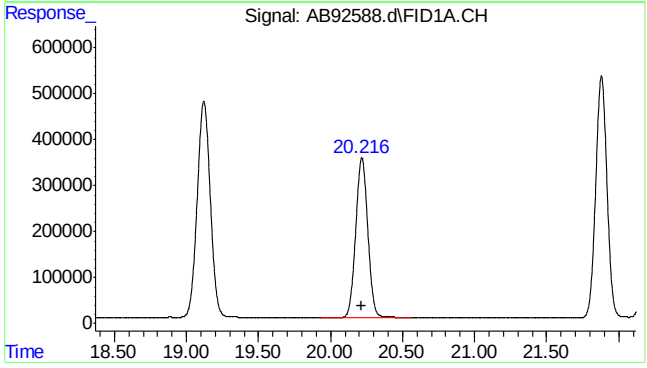
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: 0.000 min
Response: 22113709
Conc: 50.00 ppb



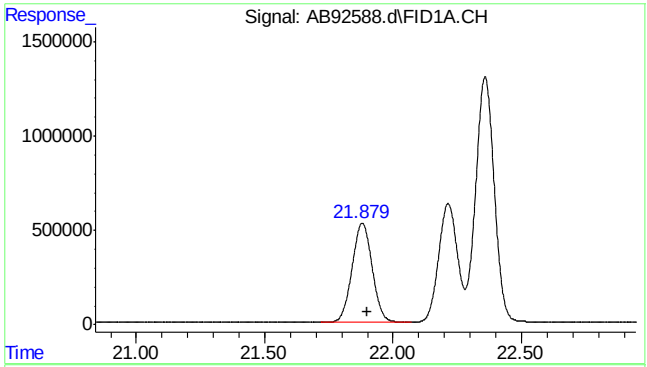
#8 toluene

R.T.: 19.121 min
Delta R.T.: 0.000 min
Response: 30034928
Conc: 50.00 ppb



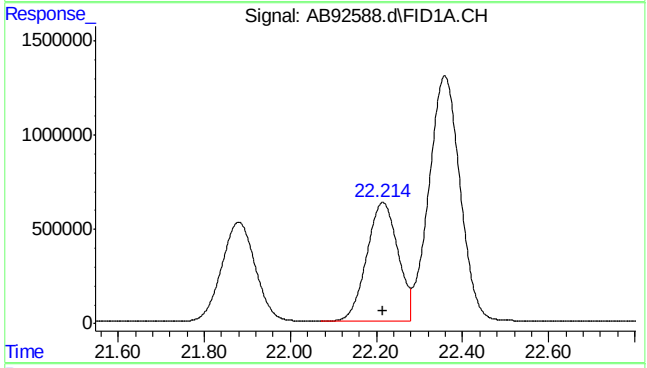
#9 2,3,4-trifluorotoluene

R.T.: 20.217 min
Delta R.T.: 0.000 min
Response: 20310808
Conc: 50.00 ppb



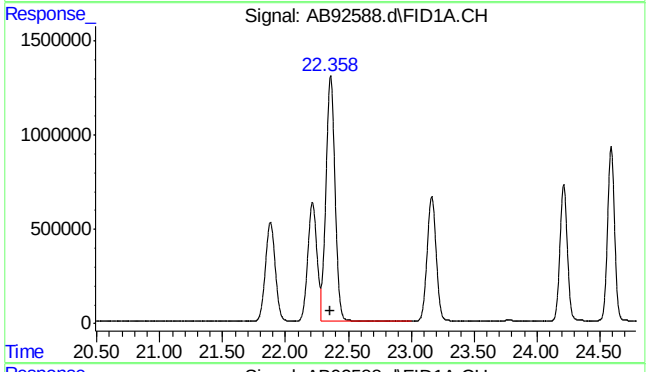
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 28560611
Conc: 50.00 ppb m



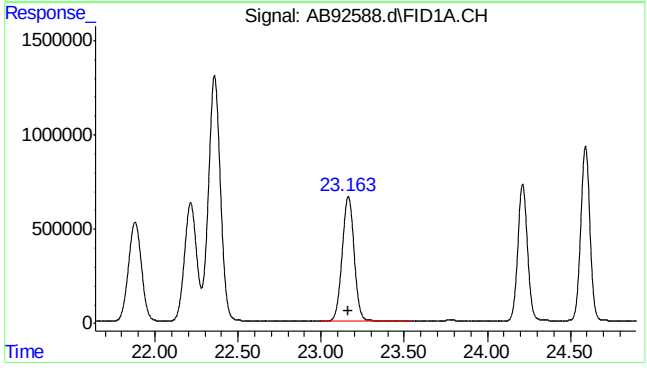
#13 ethylbenzene

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

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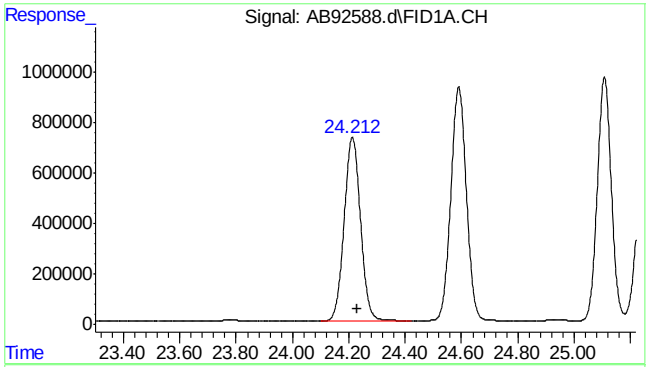
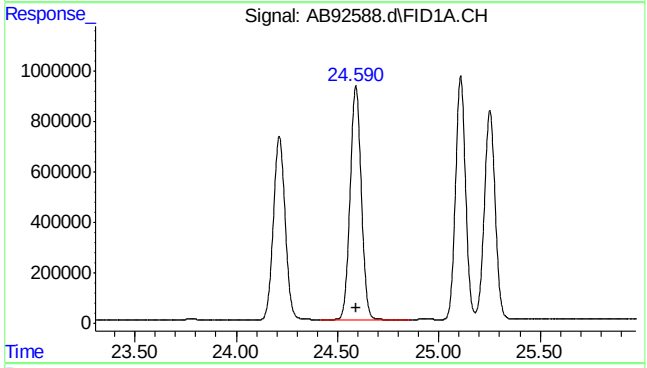


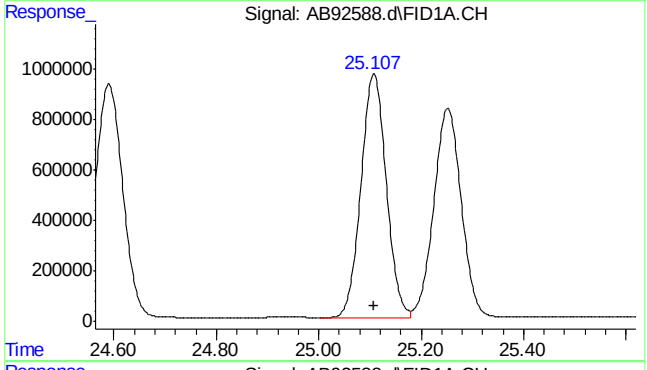
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 29380393
Conc: 50.00 ppb



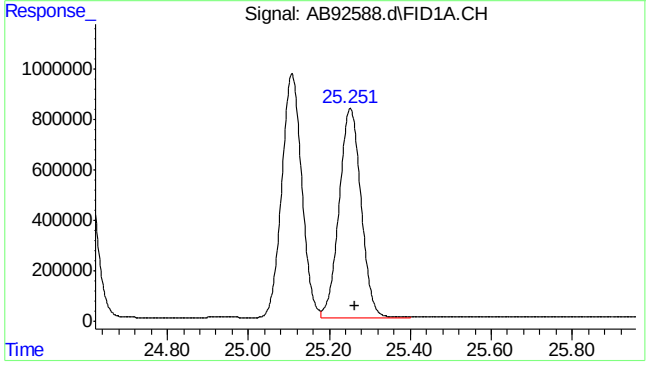
#17 1,3,5-trimethylbenzene

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



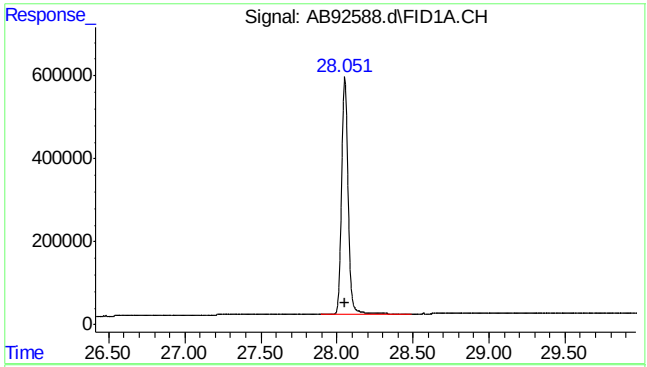
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 30974569
Conc: 50.02 ppb m

7.4.5

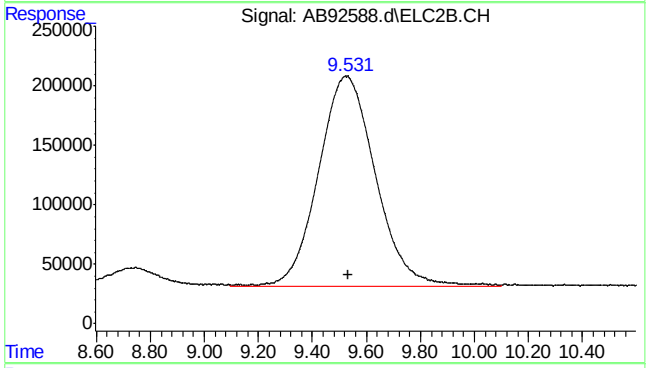
7

SGS ACCUTEST MC45538



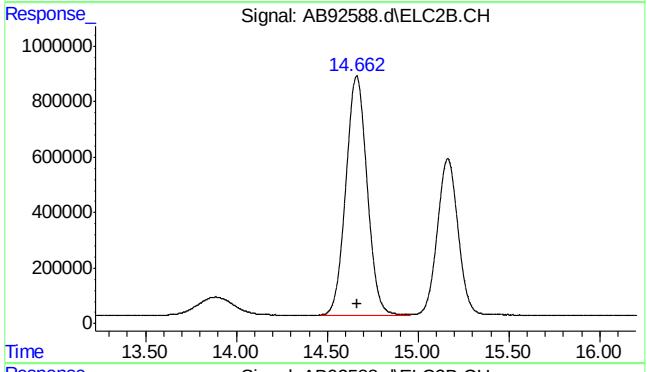
#20 naphthalene

R.T.: 28.051 min
Delta R.T.: 0.000 min
Response: 17061887
Conc: 50.03 ppb m



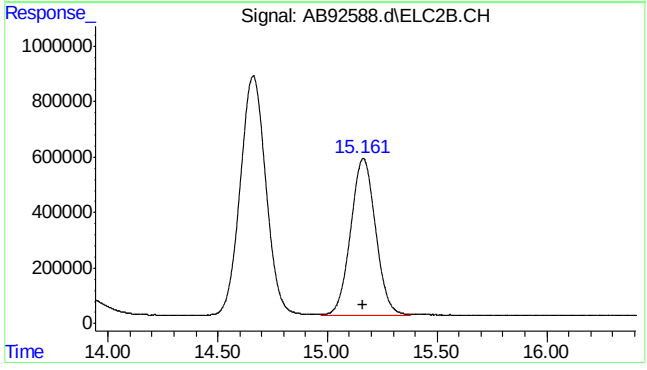
#23 mtbe #2

R.T.: 9.531 min
Delta R.T.: 0.000 min
Response: 25843788
Conc: 50.08 ppb m



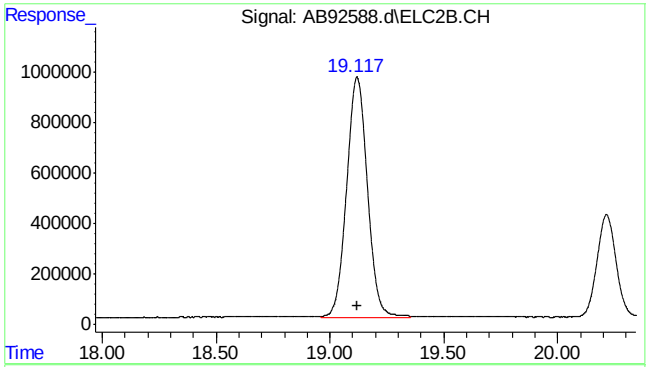
#24 benzene #2

R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 70338009
Conc: 50.00 ppb



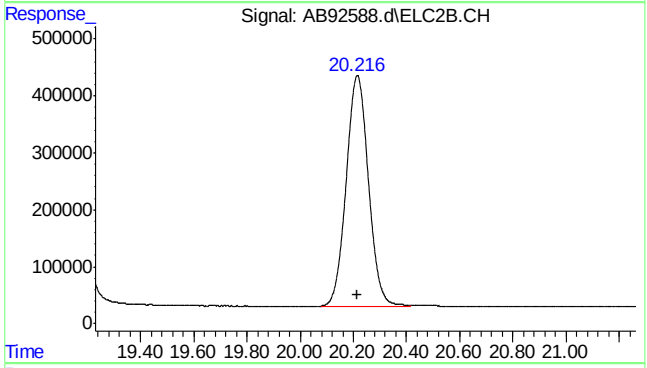
#25 fluorobenzene #2

R.T.: 15.162 min
Delta R.T.: 0.000 min
Response: 44830746
Conc: 50.00 ppb



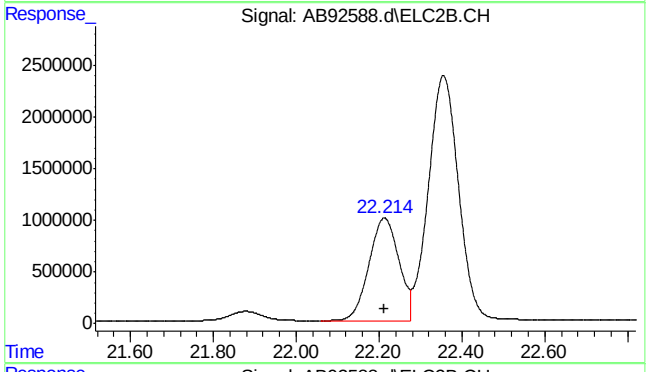
#26 toluene #2

R.T.: 19.118 min
Delta R.T.: 0.000 min
Response: 60419568
Conc: 50.00 ppb



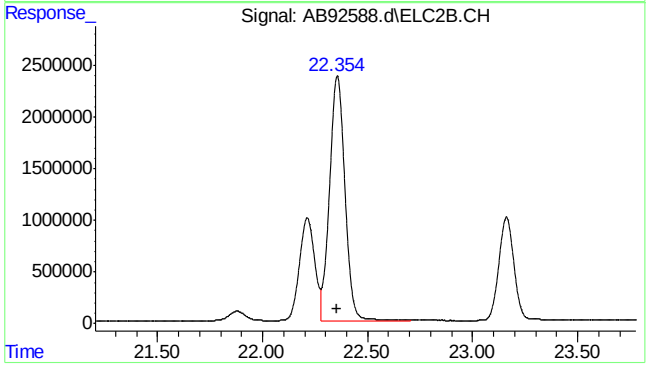
#27 2,3,4-trifluorotoluene #2

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

7.4.5

7

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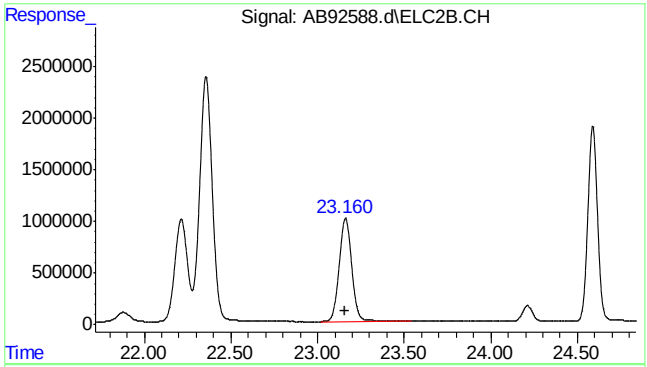
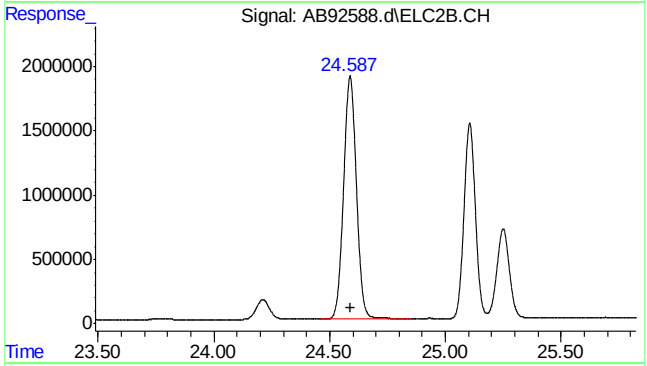


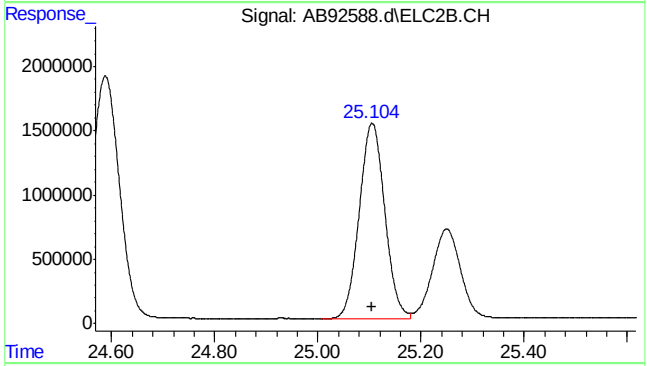
#30 o-xylene #2

R.T.: 23.161 min
Delta R.T.: 0.000 min
Response: 50672944
Conc: 50.00 ppb



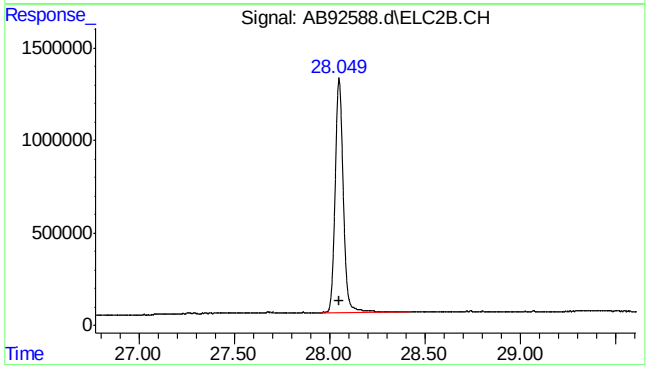
#31 1,3,5-trimethylbenzene #2

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



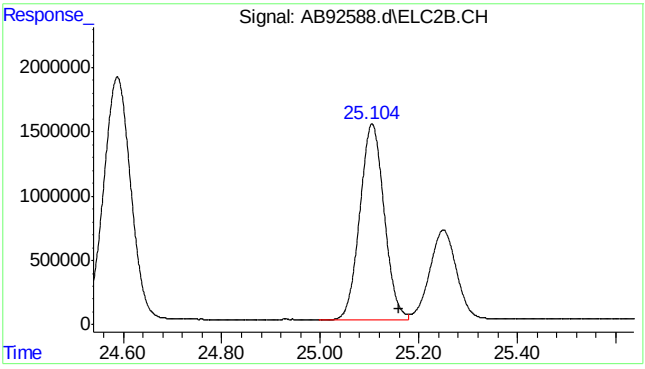
#33 naphthalene #2

R.T.: 28.049 min
Delta R.T.: 0.000 min
Response: 37670302
Conc: 50.00 ppb m

7.4.5

7

SGS ACCUTEST MC45538




```
#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
```

7.4.5

7

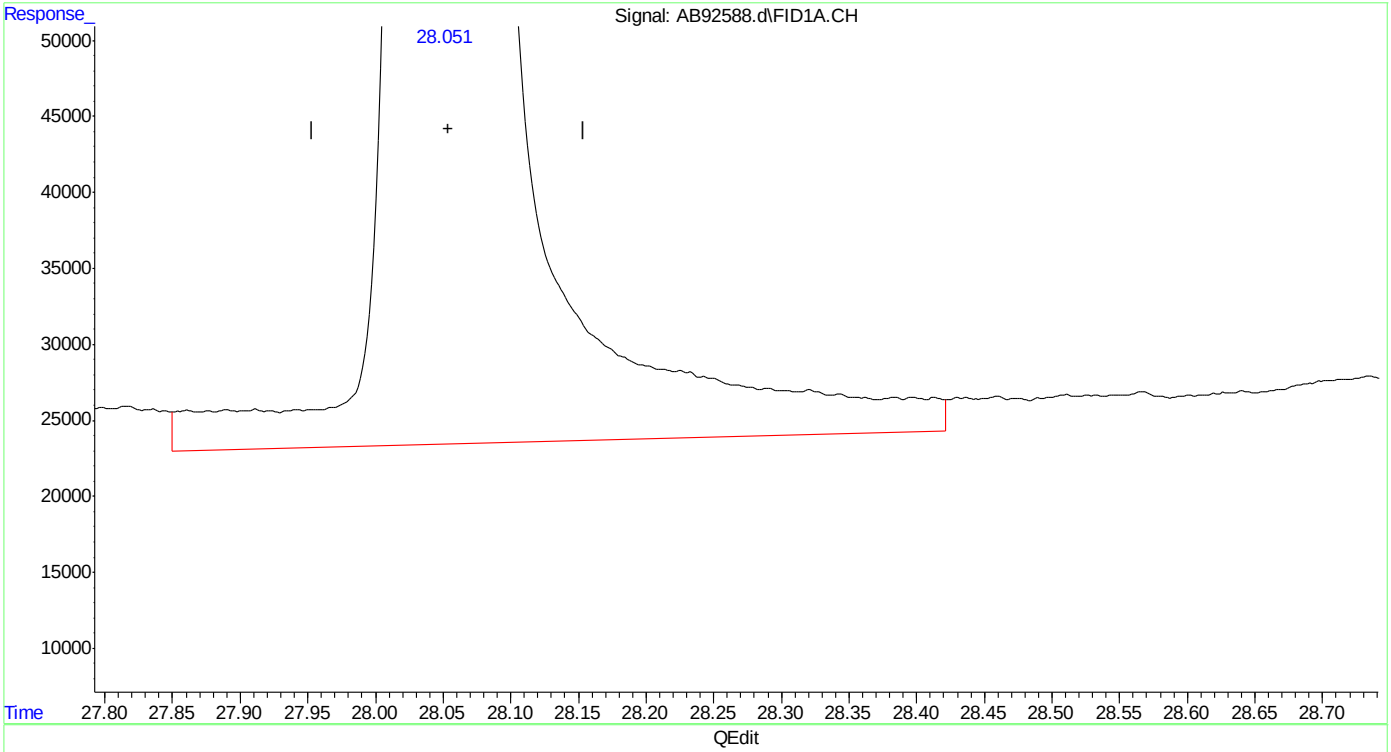
SGS ACCUTEST MC45538

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

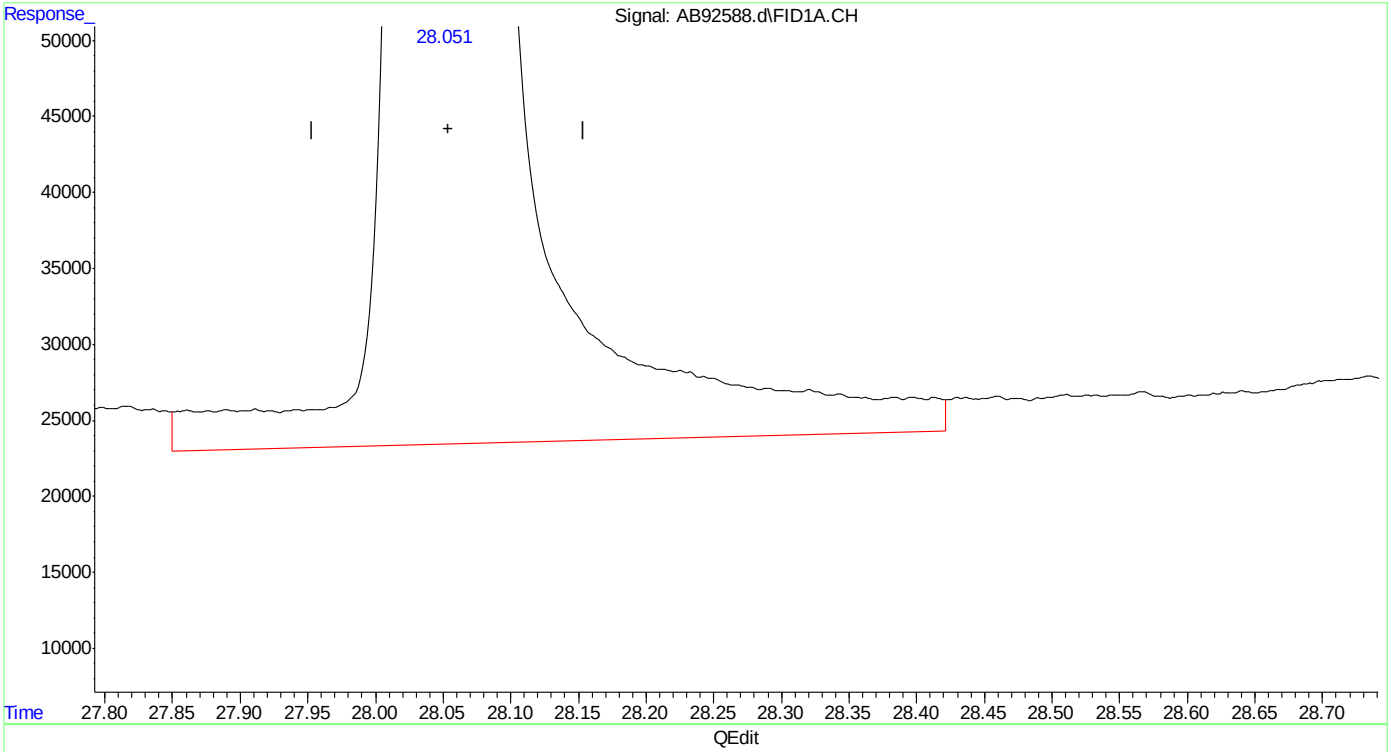
SGS ACCUTEST MC45538

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

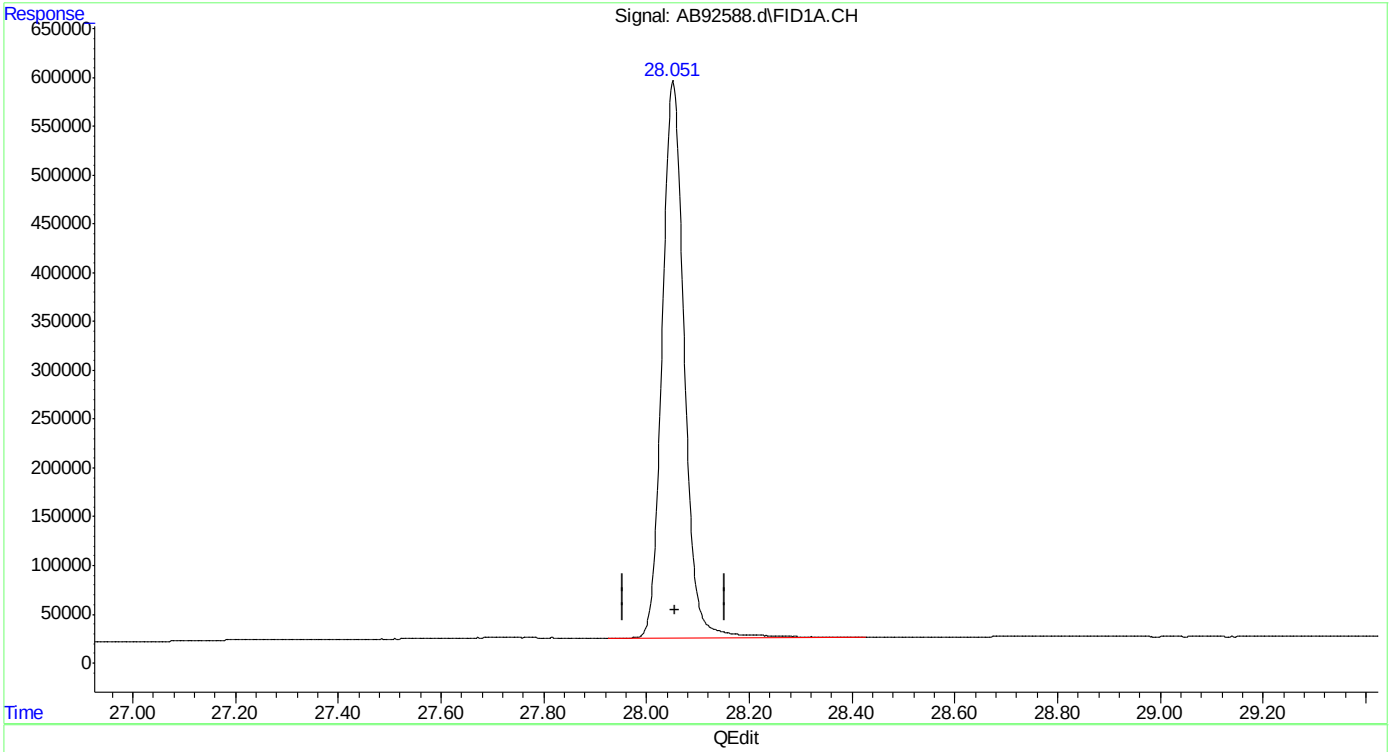
(+) = Expected Retention Time

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

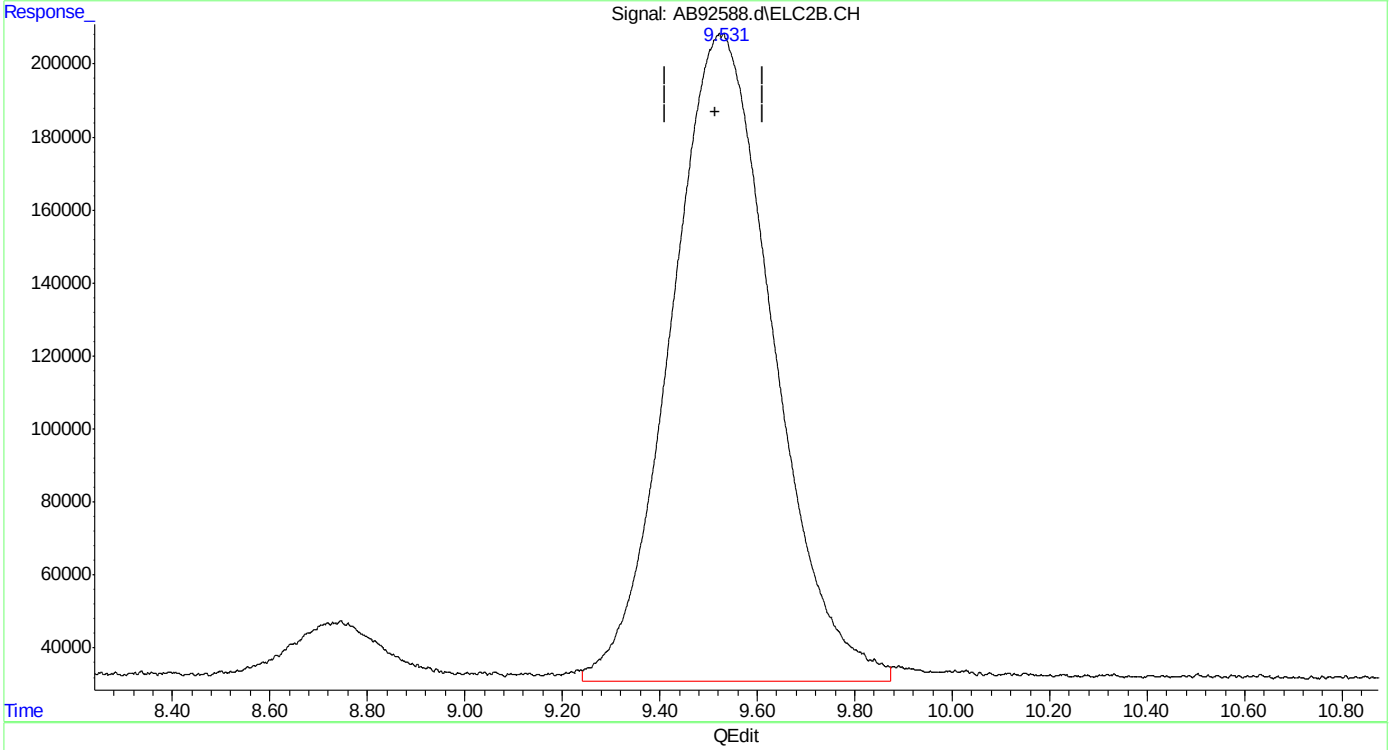
(+) = Expected Retention Time

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

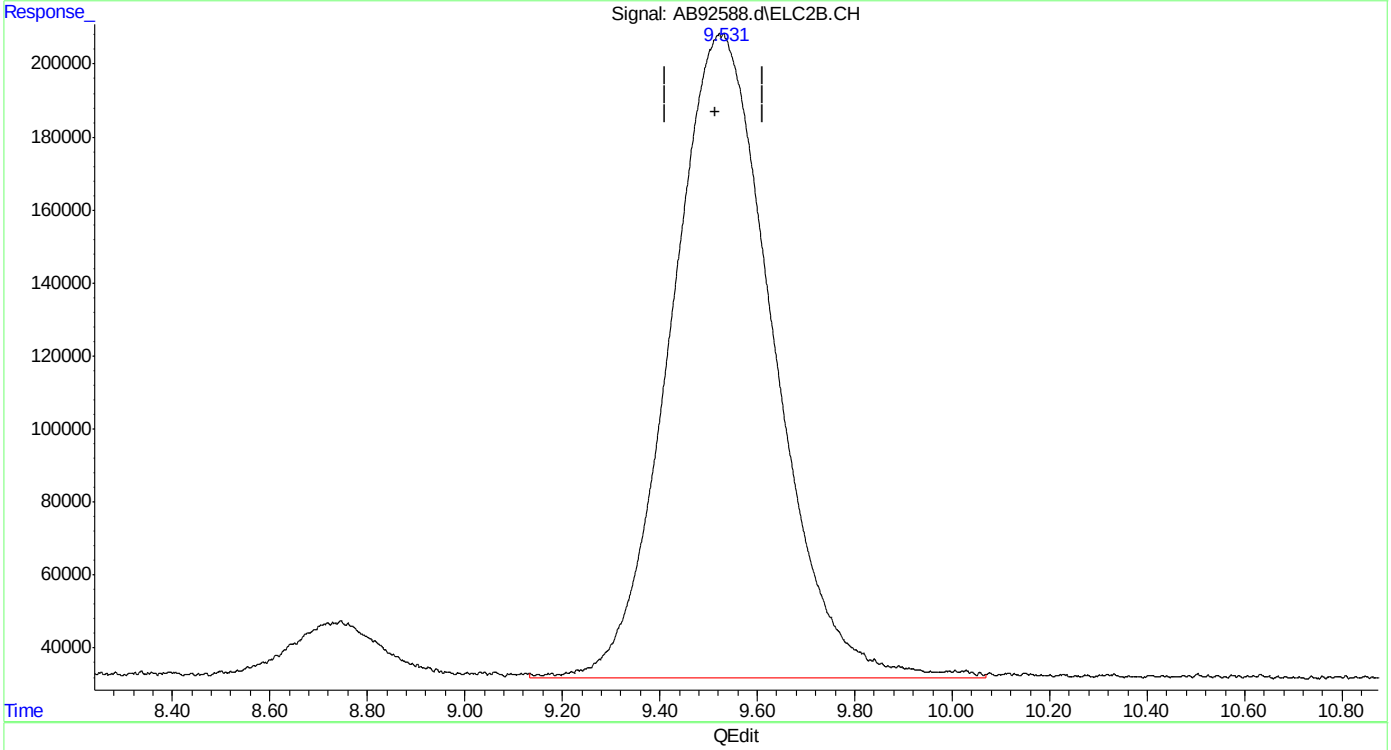
(+) = Expected Retention Time

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

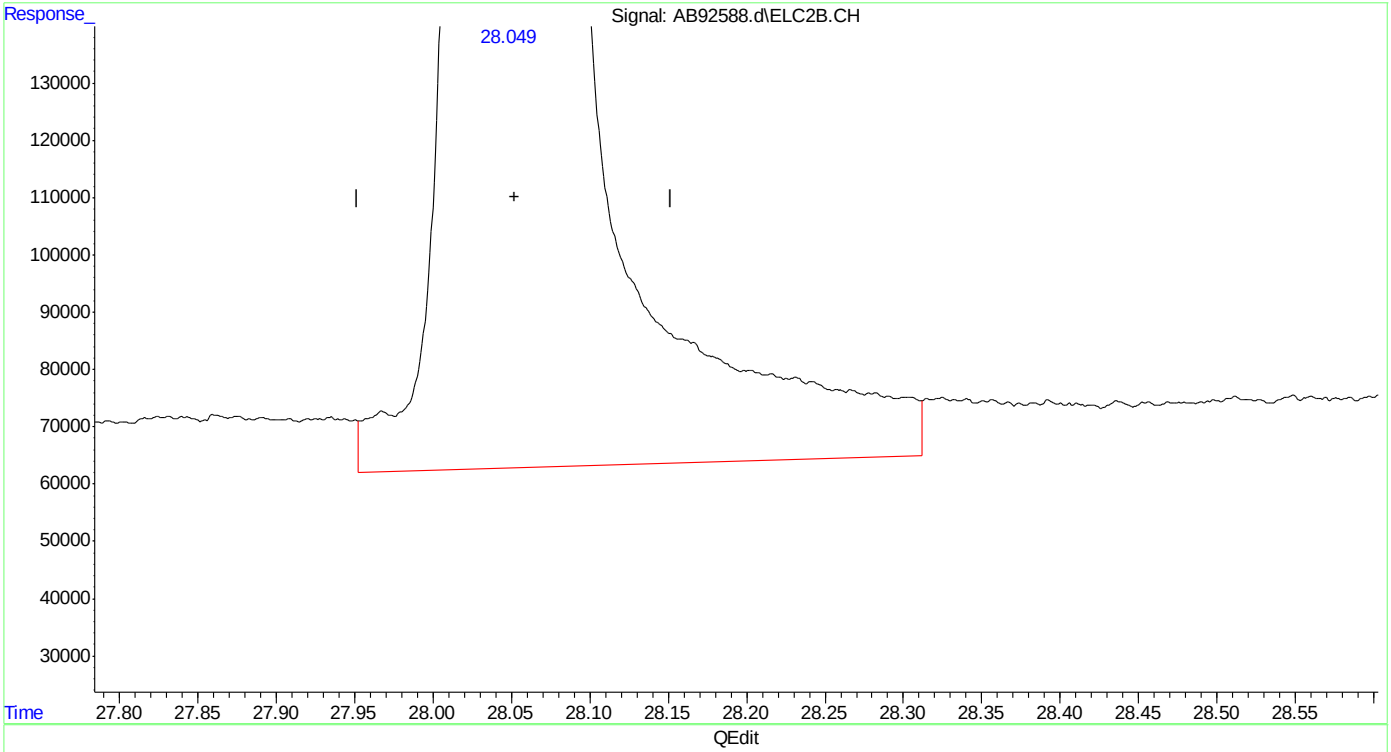
(+) = Expected Retention Time

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

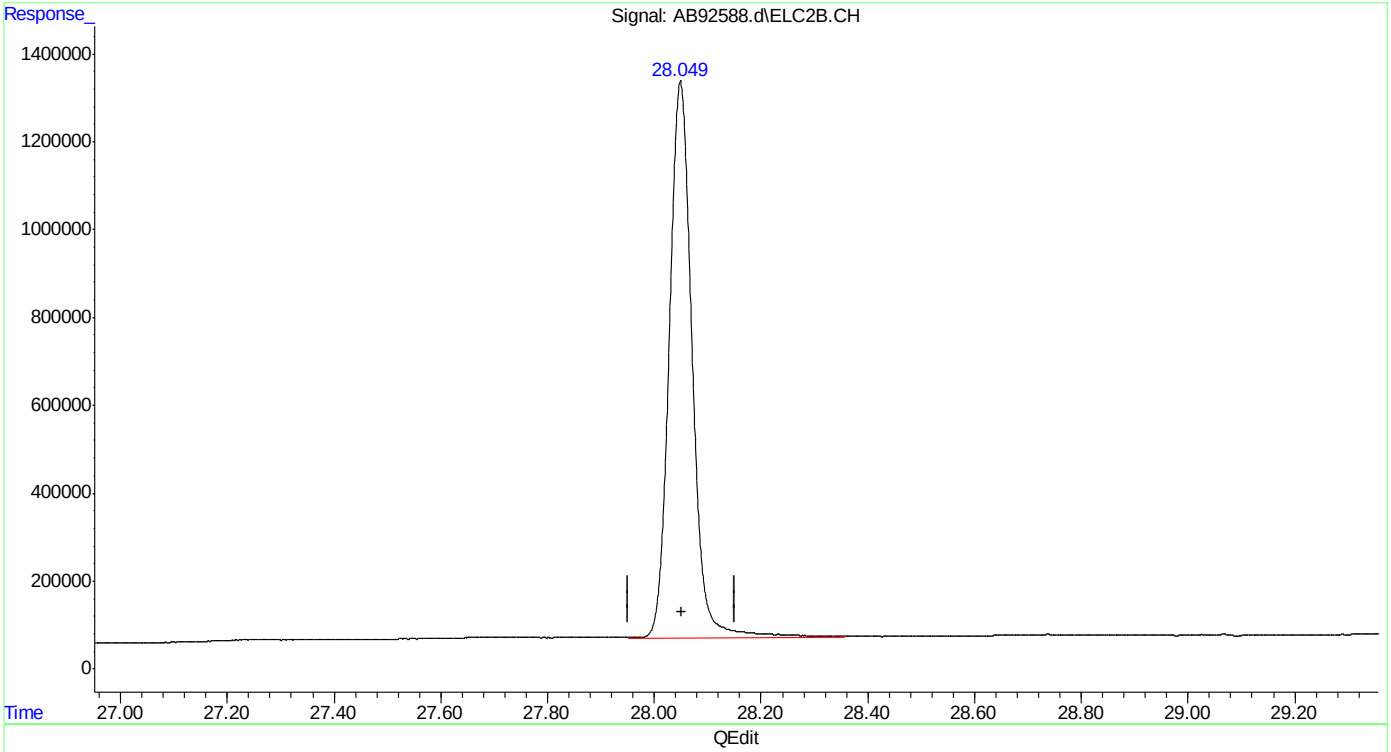
SGS ACCUTEST MC45538

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

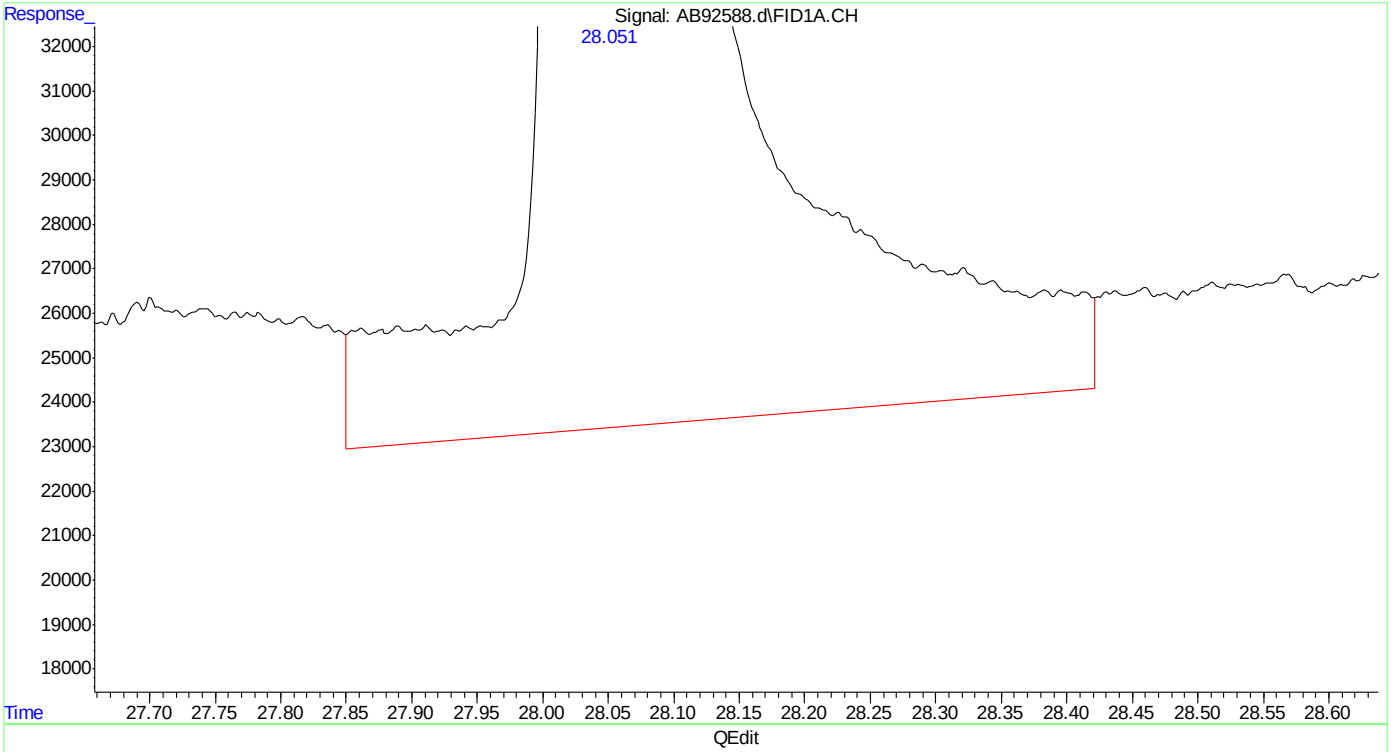
(+) = Expected Retention Time

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

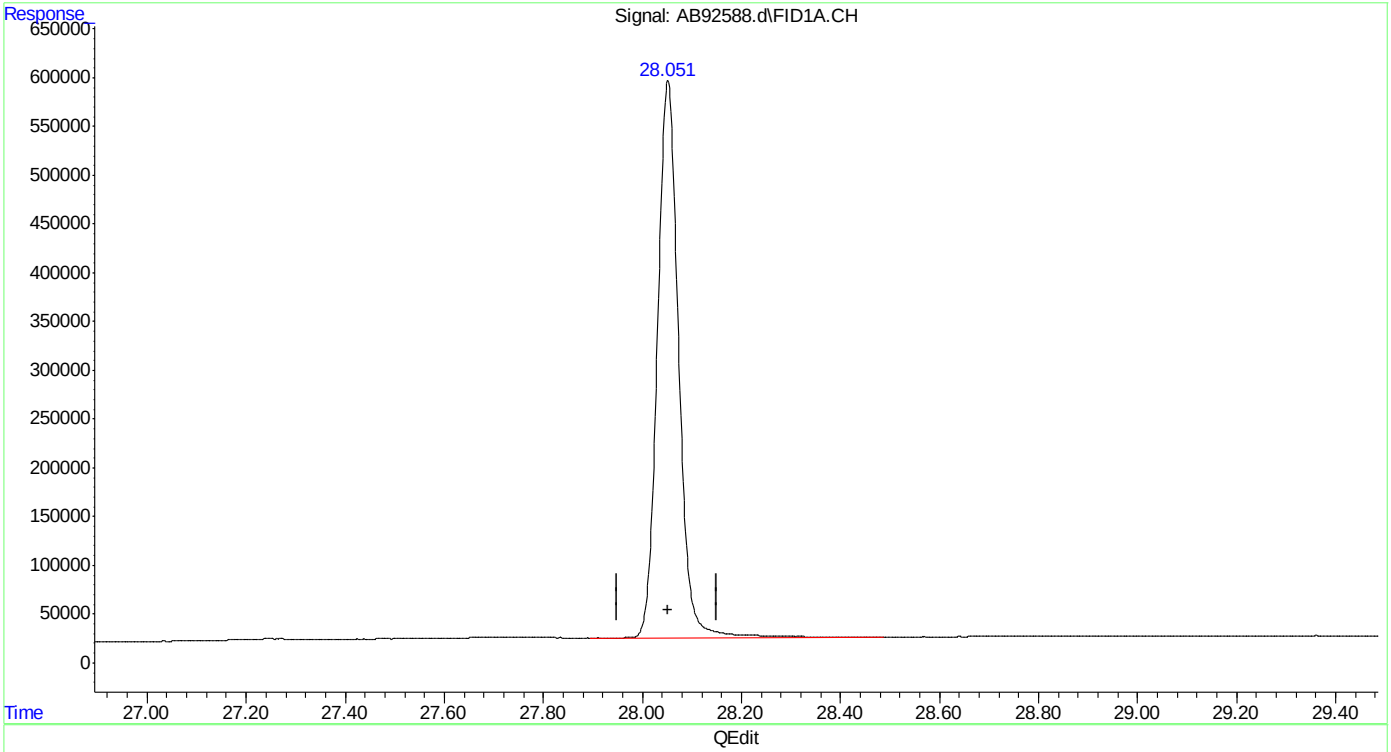
(+) = Expected Retention Time

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

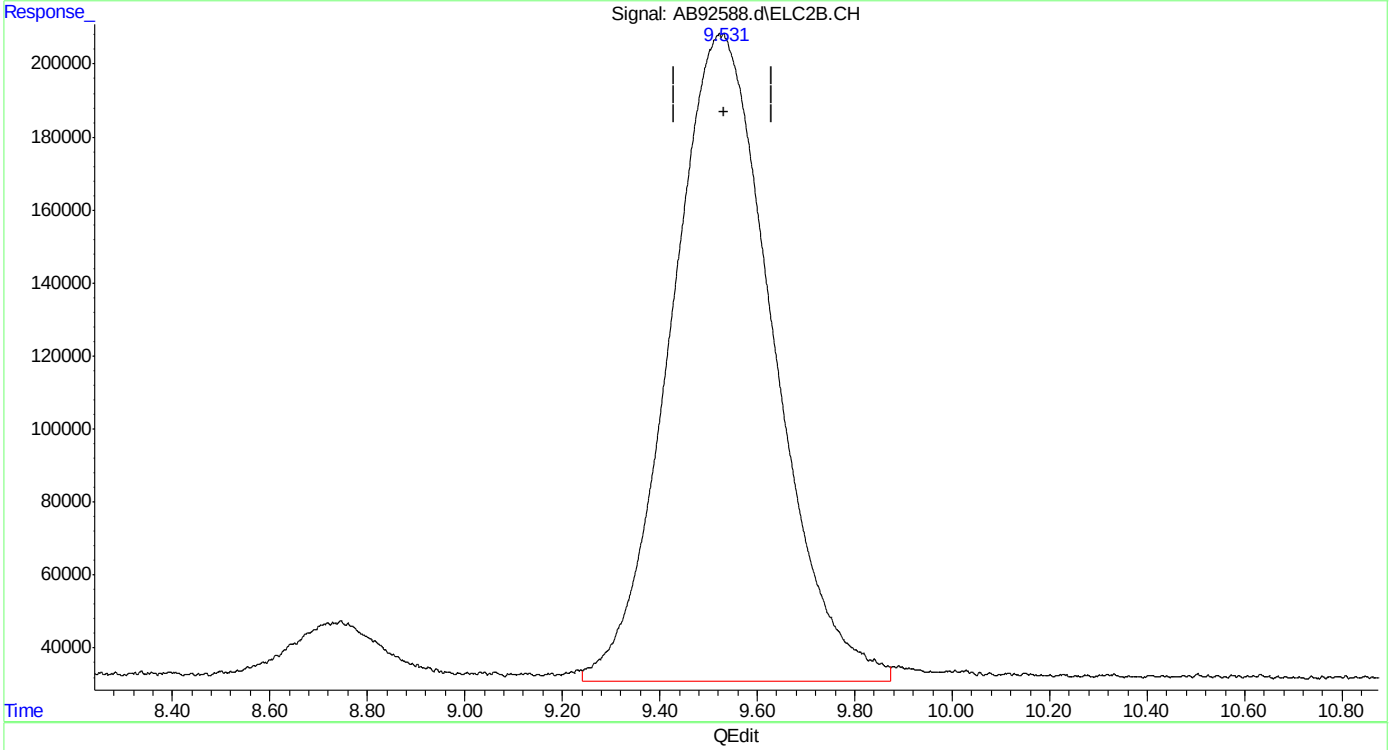
(+) = Expected Retention Time

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

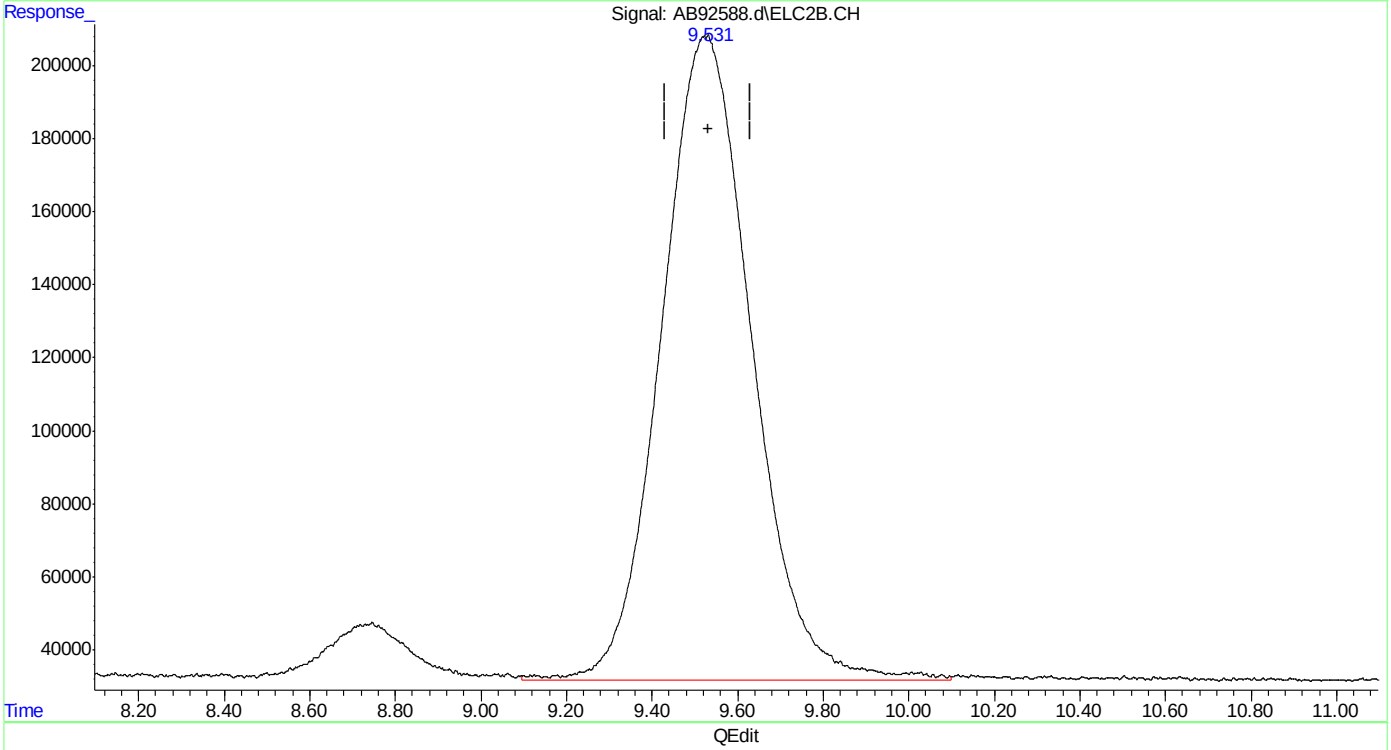
(+) = Expected Retention Time

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

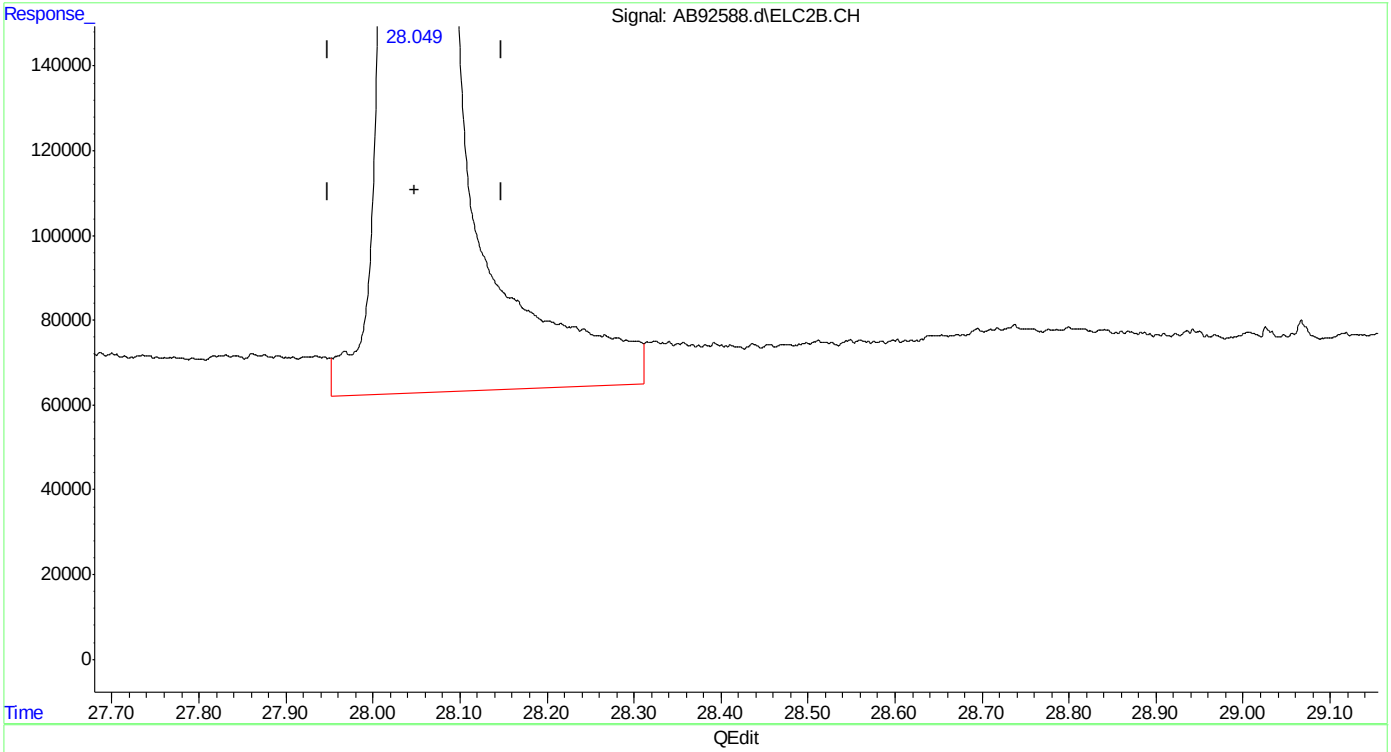
(+) = Expected Retention Time

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

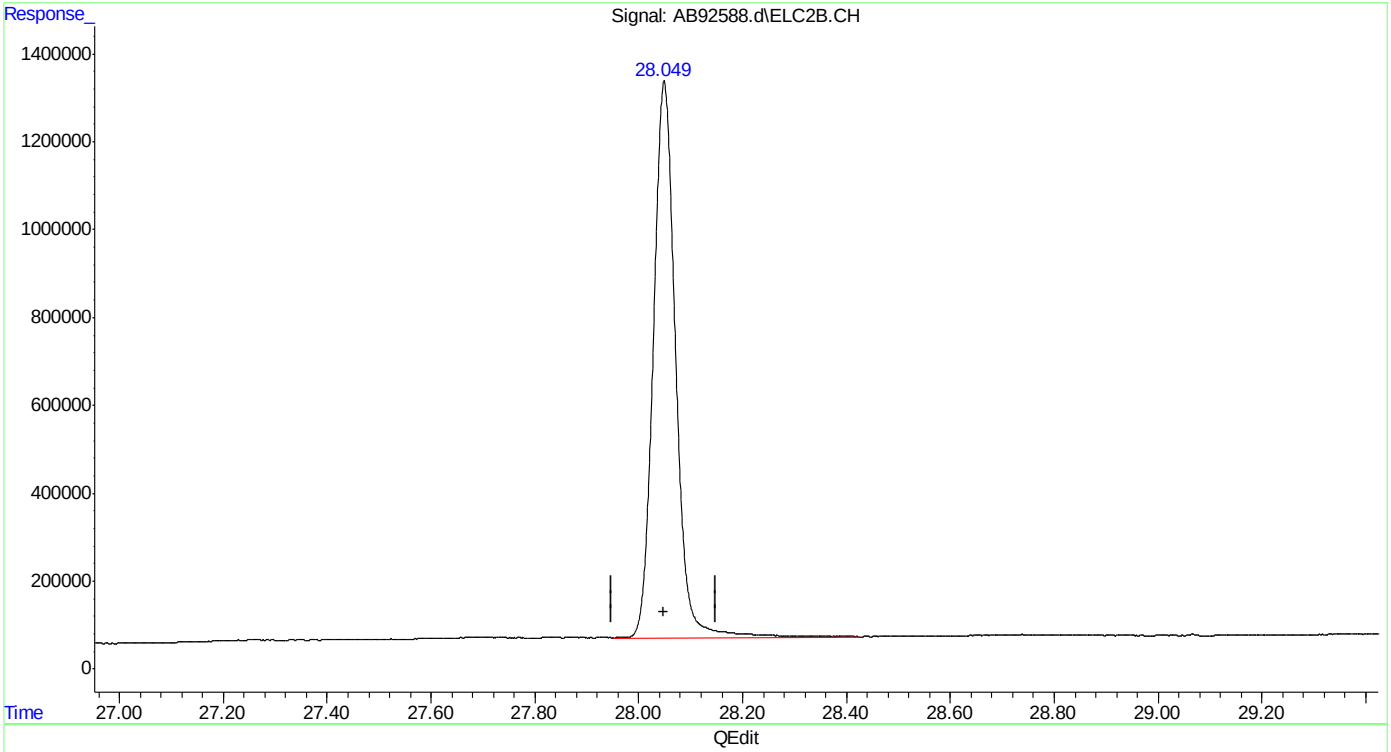
(+) = Expected Retention Time

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

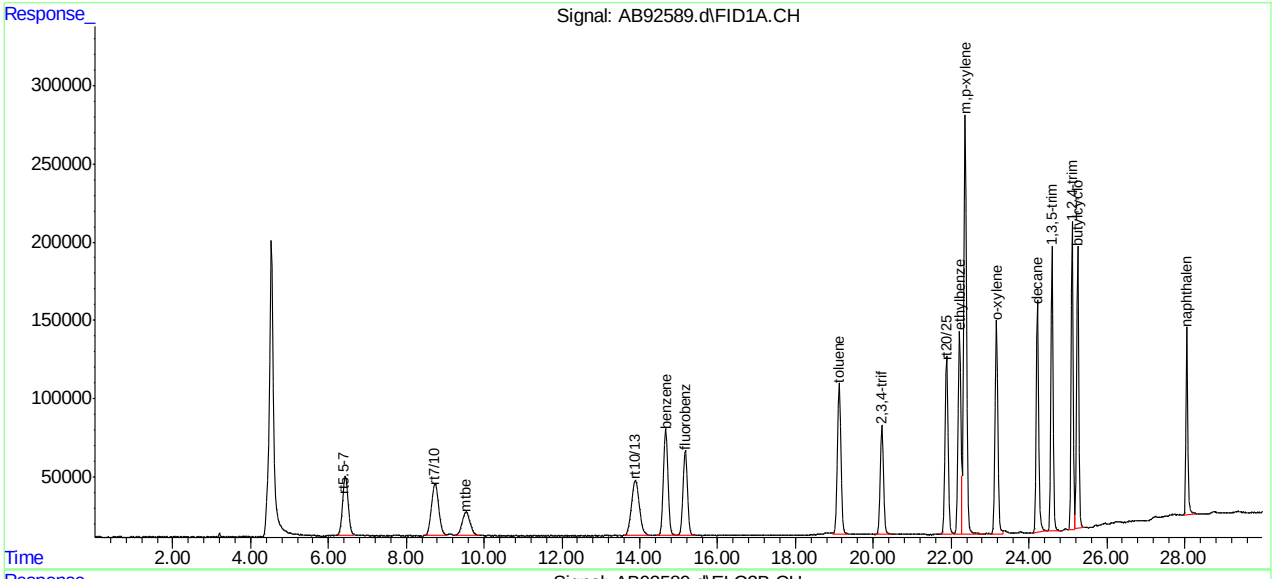
(f)=RT Delta > 1/2 Window (m)=manual int.

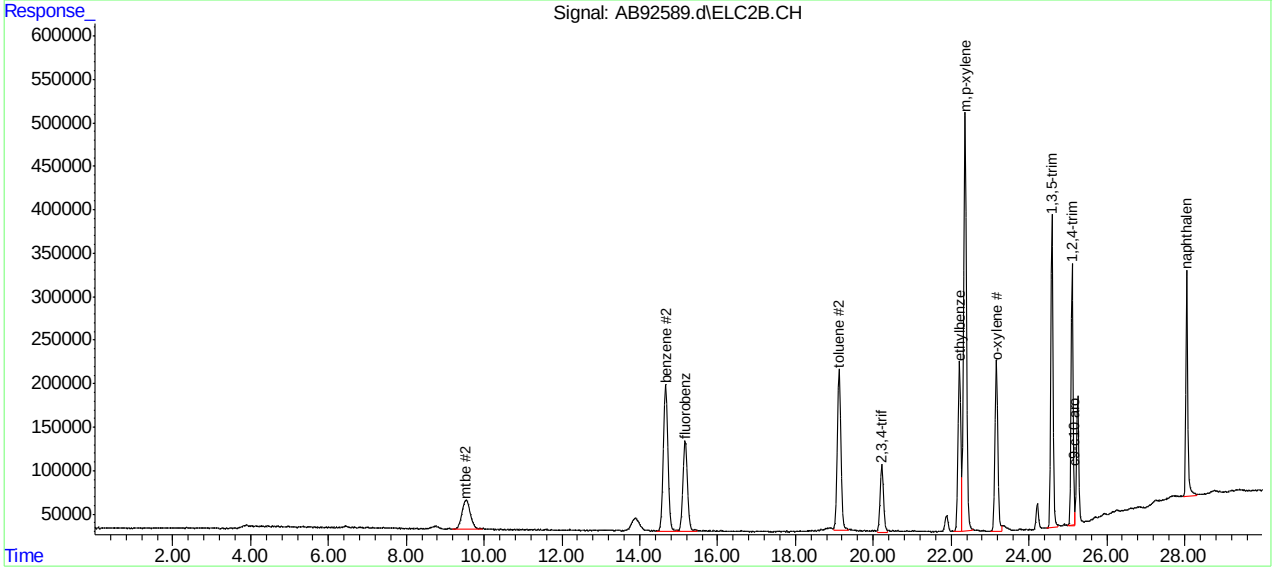
Quantitation Report (QT Reviewed)

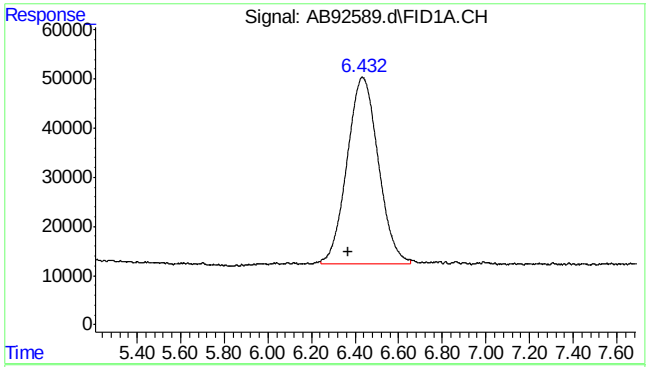
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

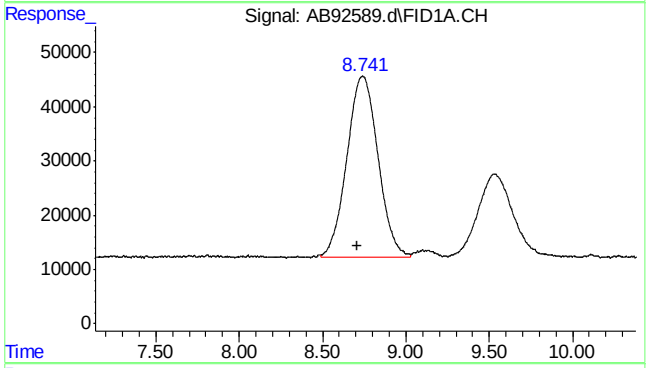






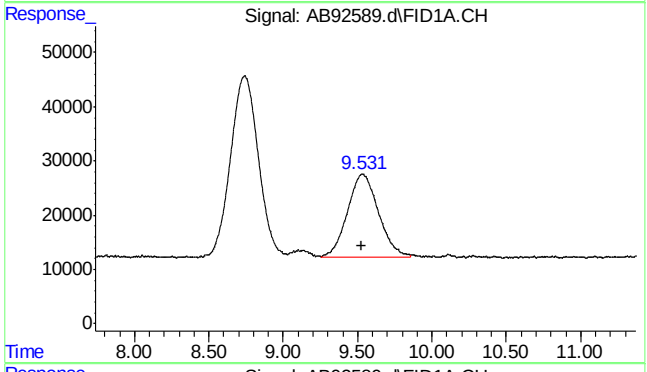
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 3766236
Conc: 10.86 ppb m



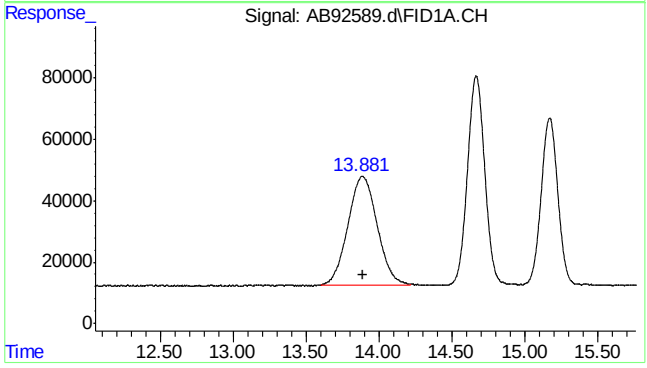
#2 rt7/10

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

7.4.6

7

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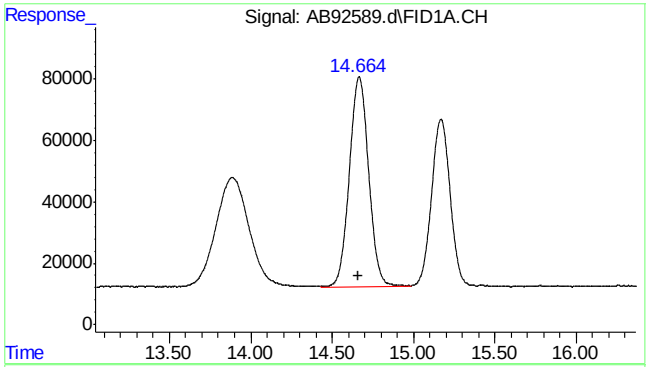
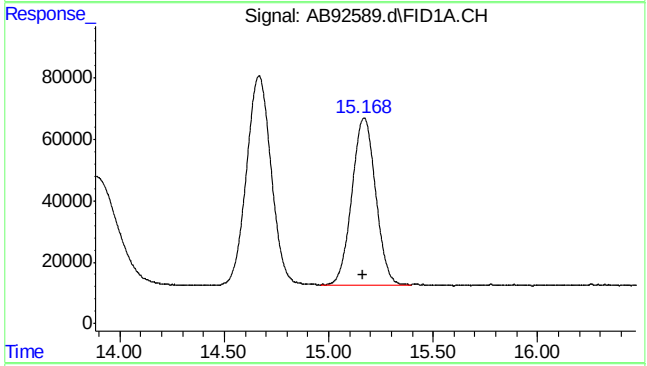


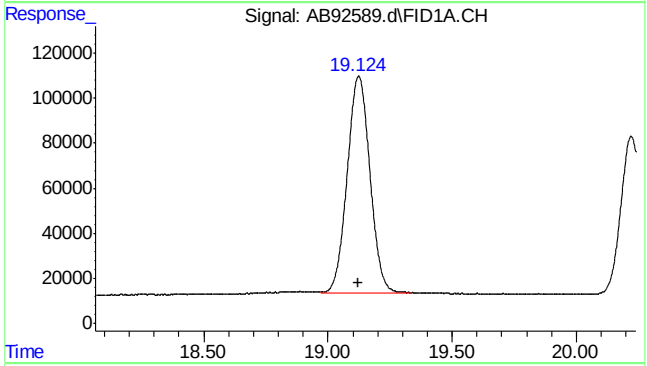
#5 benzene

R.T.: 14.665 min
Delta R.T.: 0.003 min
Response: 5646132
Conc: 10.37 ppb



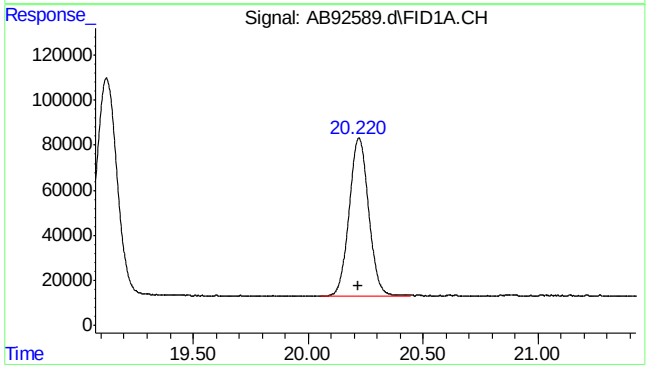
#6 fluorobenzene

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



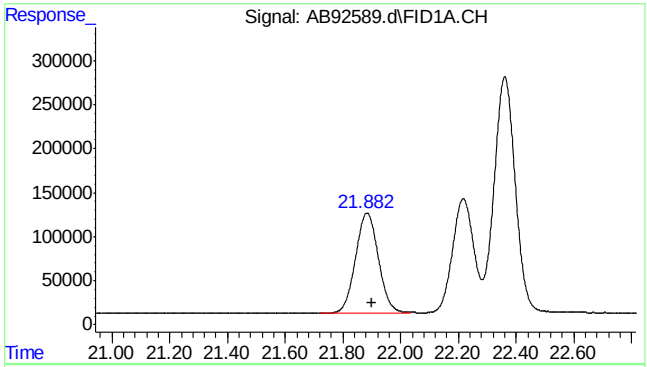
#9 2,3,4-trifluorotoluene

R.T.: 20.220 min
Delta R.T.: 0.003 min
Response: 4158758
Conc: 10.24 ppb m

7.4.6

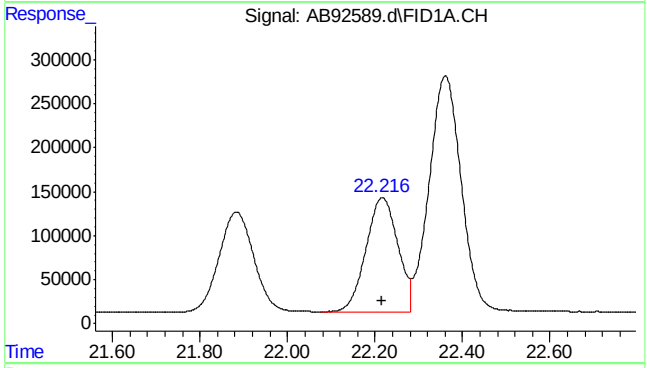
7

SGS ACCUTEST MC45538



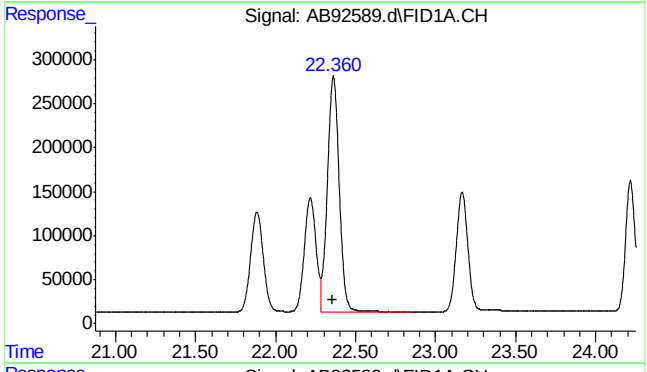
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 6317132
Conc: 11.06 ppb m



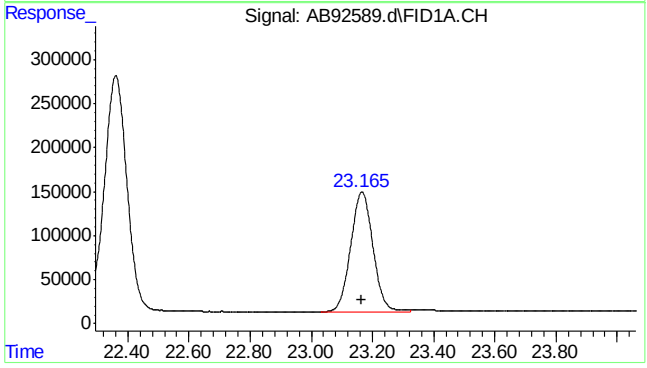
#13 ethylbenzene

R.T.: 22.217 min
Delta R.T.: 0.002 min
Response: 6624507
Conc: 10.39 ppb



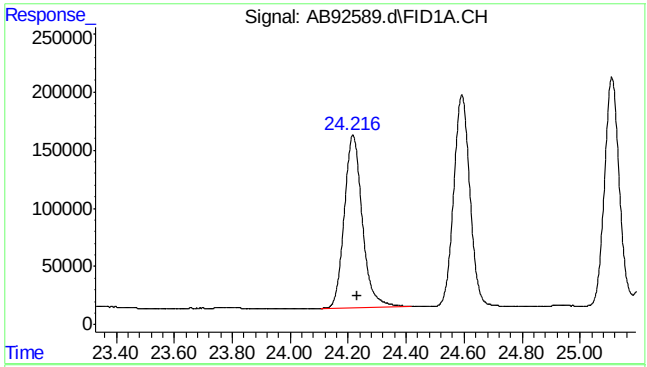
#14 m,p-xylene

R.T.: 22.361 min
Delta R.T.: 0.002 min
Response: 13841478
Conc: 21.02 ppb



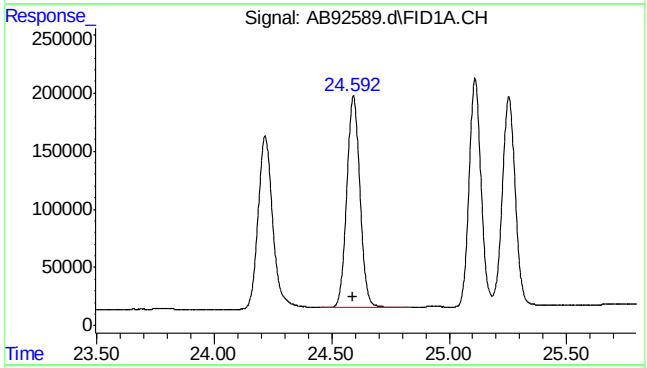
#15 o-xylene

R.T.: 23.165 min
Delta R.T.: 0.002 min
Response: 6899240
Conc: 10.39 ppb m



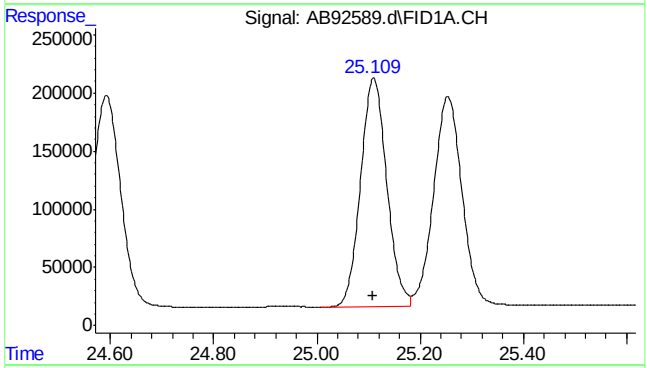
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 6389567
Conc: 10.87 ppb m



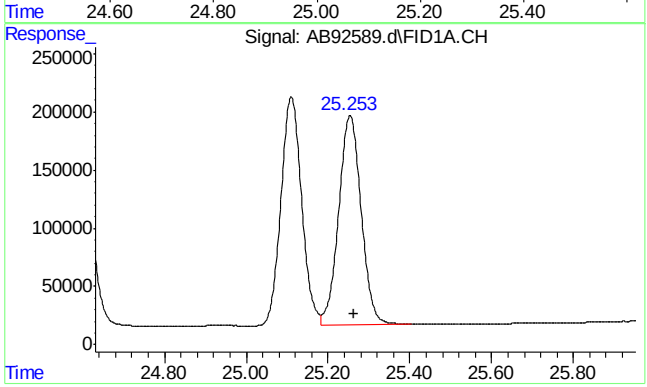
#17 1,3,5-trimethylbenzene

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



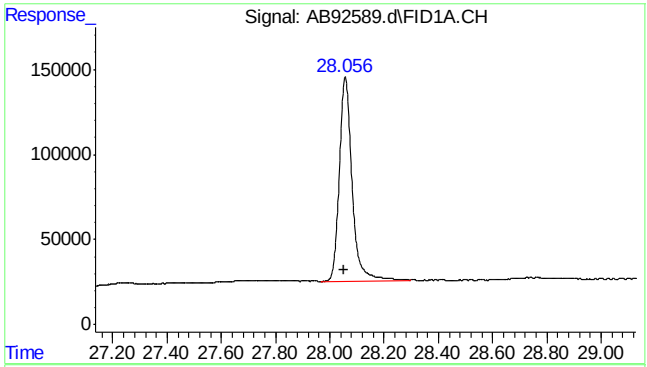
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 6902750
Conc: 11.14 ppb m

7.4.6

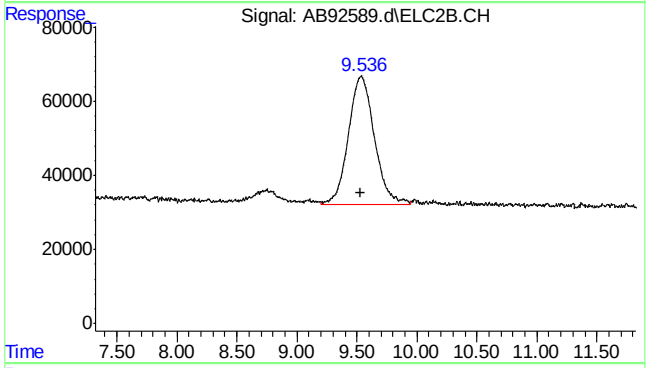
7

SGS ACCUTEST MC45538



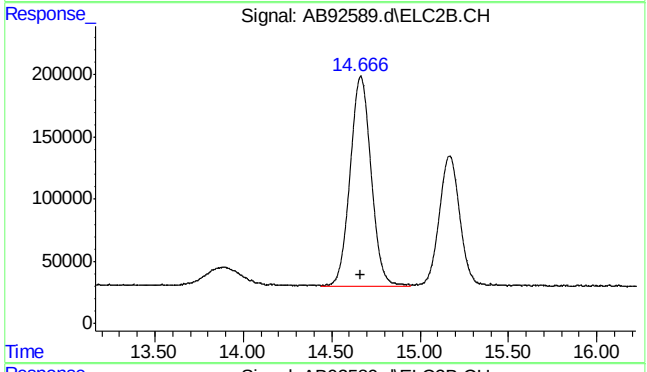
#20 naphthalene

R.T.: 28.056 min
Delta R.T.: 0.005 min
Response: 3925512
Conc: 11.50 ppb m



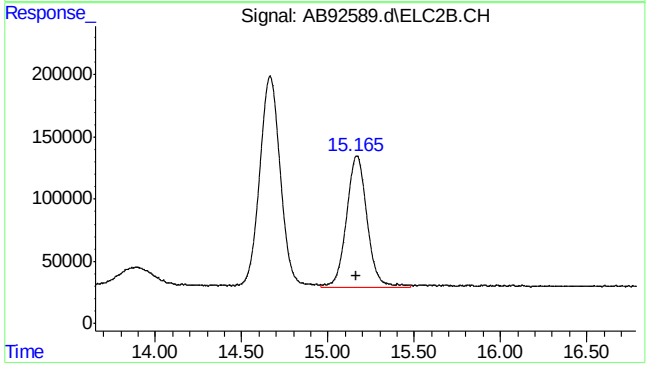
#23 mtbe #2

R.T.: 9.536 min
Delta R.T.: 0.005 min
Response: 5190787
Conc: 10.04 ppb m



#24 benzene #2

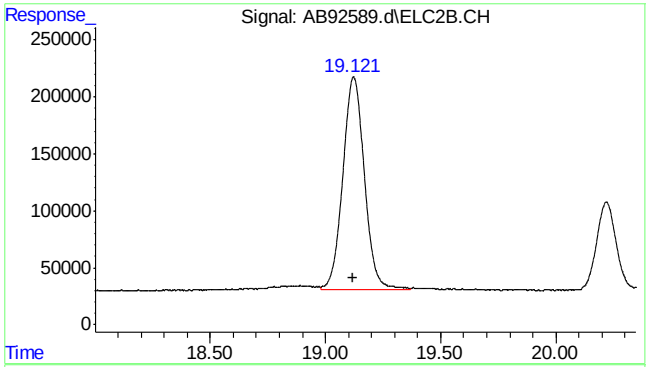
R.T.: 14.666 min
Delta R.T.: 0.004 min
Response: 13970184
Conc: 9.93 ppb m



#25 fluorobenzene #2

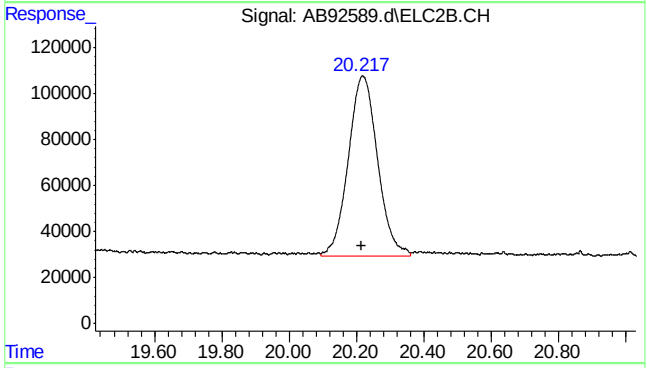
R.T.: 15.165 min
Delta R.T.: 0.004 min
Response: 8690415
Conc: 9.69 ppb m

SGS ACCUTEST MC45538



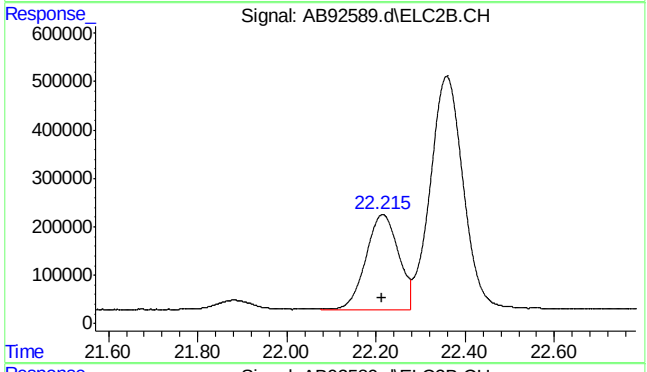
#26 toluene #2

R.T.: 19.121 min
Delta R.T.: 0.002 min
Response: 12172198
Conc: 10.07 ppb m



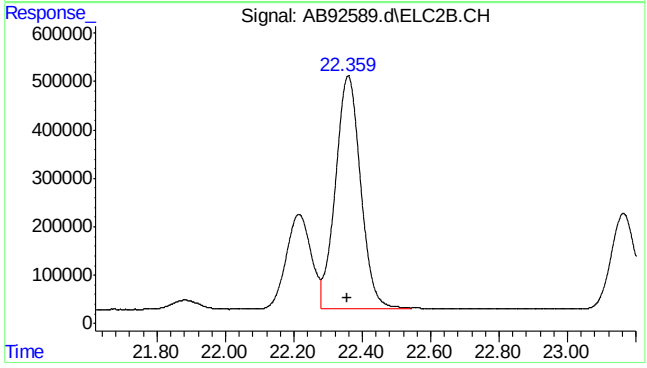
#27 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: 0.002 min
Response: 4721681
Conc: 10.01 ppb



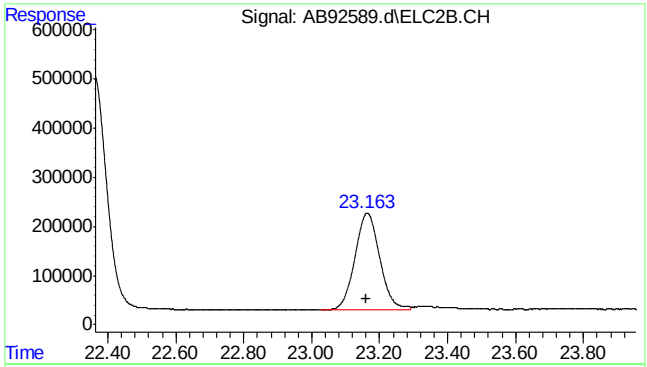
#28 ethylbenzene #2

R.T.: 22.215 min
Delta R.T.: 0.003 min
Response: 9984696
Conc: 10.00 ppb m



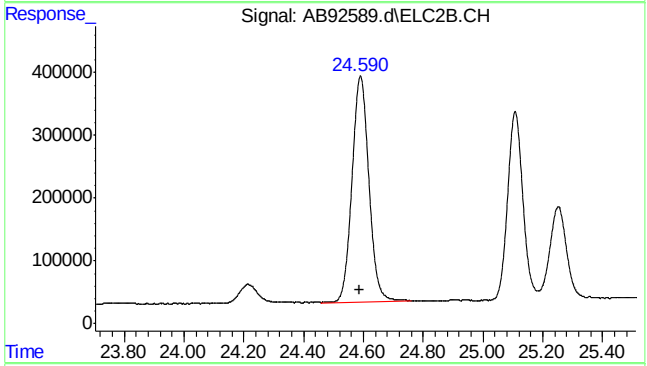
#29 m,p-xylene #2

R.T.: 22.358 min
Delta R.T.: 0.003 min
Response: 24640906
Conc: 20.41 ppb



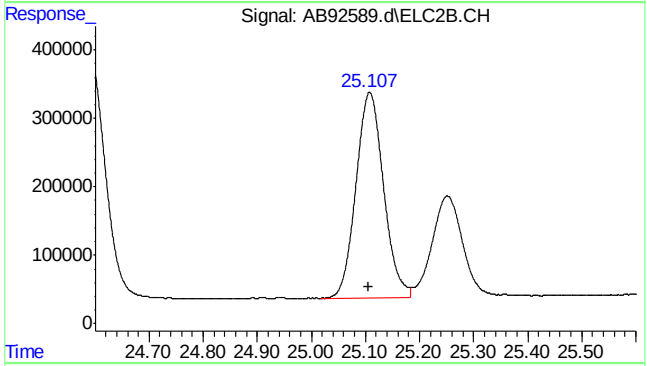
#30 o-xylene #2

R.T.: 23.163 min
Delta R.T.: 0.001 min
Response: 10078357
Conc: 9.94 ppb m



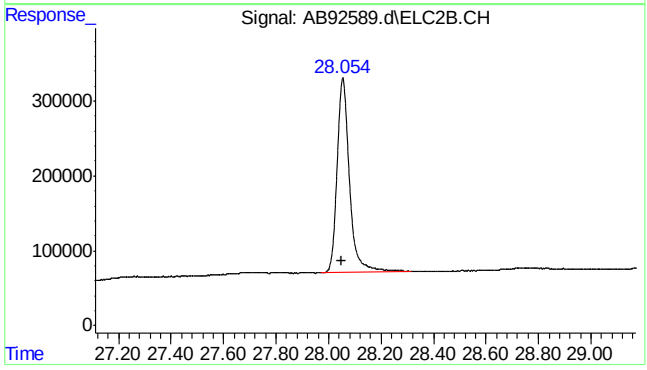
#31 1,3,5-trimethylbenzene #2

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



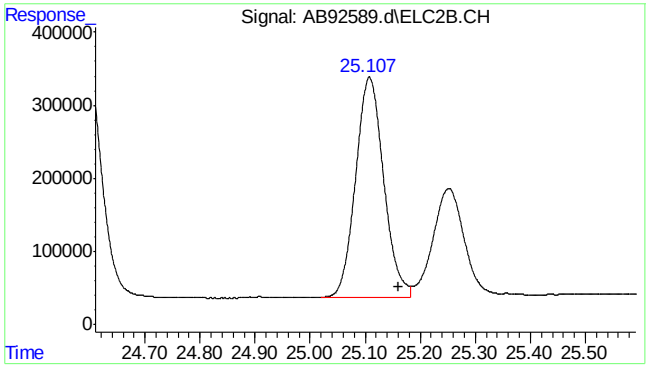
#33 naphthalene #2

R.T.: 28.054 min
Delta R.T.: 0.005 min
Response: 8606987
Conc: 11.42 ppb m

7.4.6

7

SGS ACCUTEST MC45538



#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

7.4.6

7

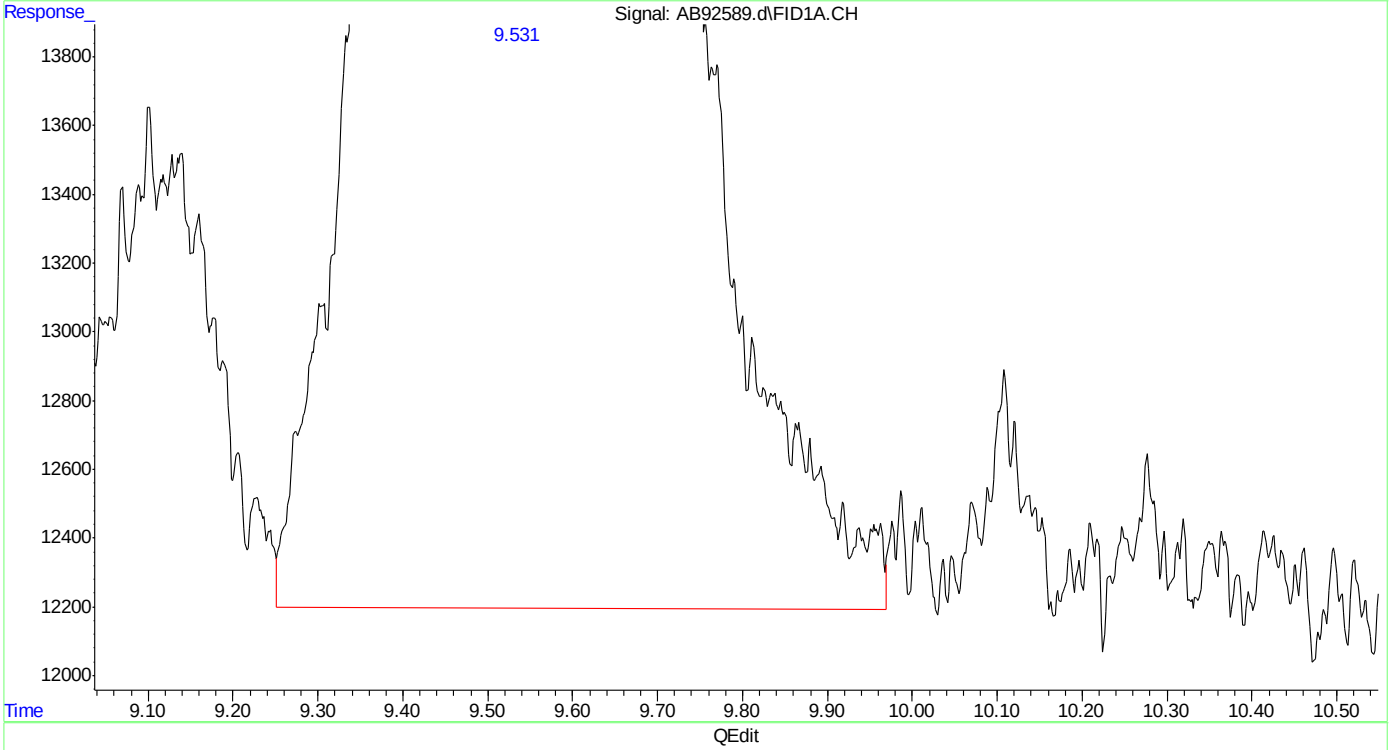
SGS ACCUTEST MC45538

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

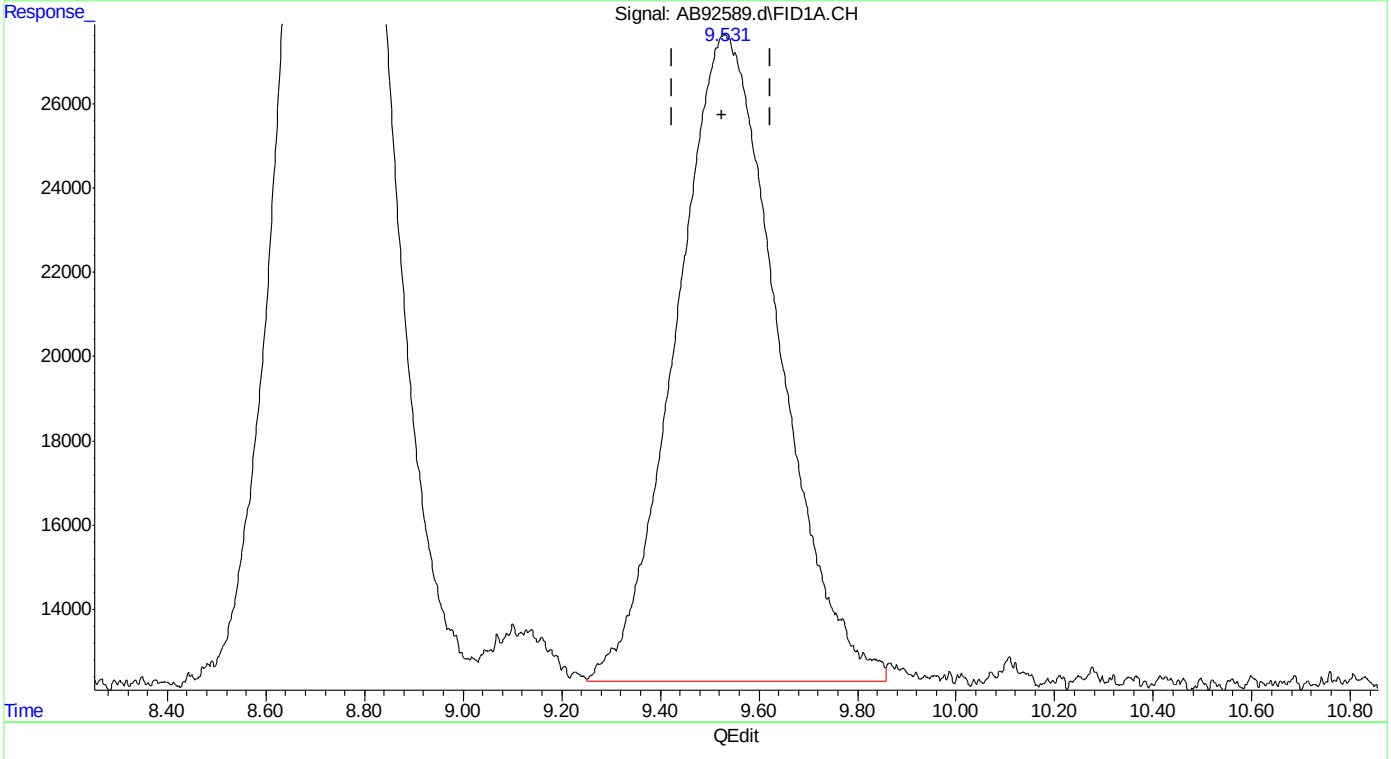
SGS ACCUTEST MC45538

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
ab160112vphmaster.M Tue Jan 12 12:05:04 2016

SGS ACCUTEST MC45538

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

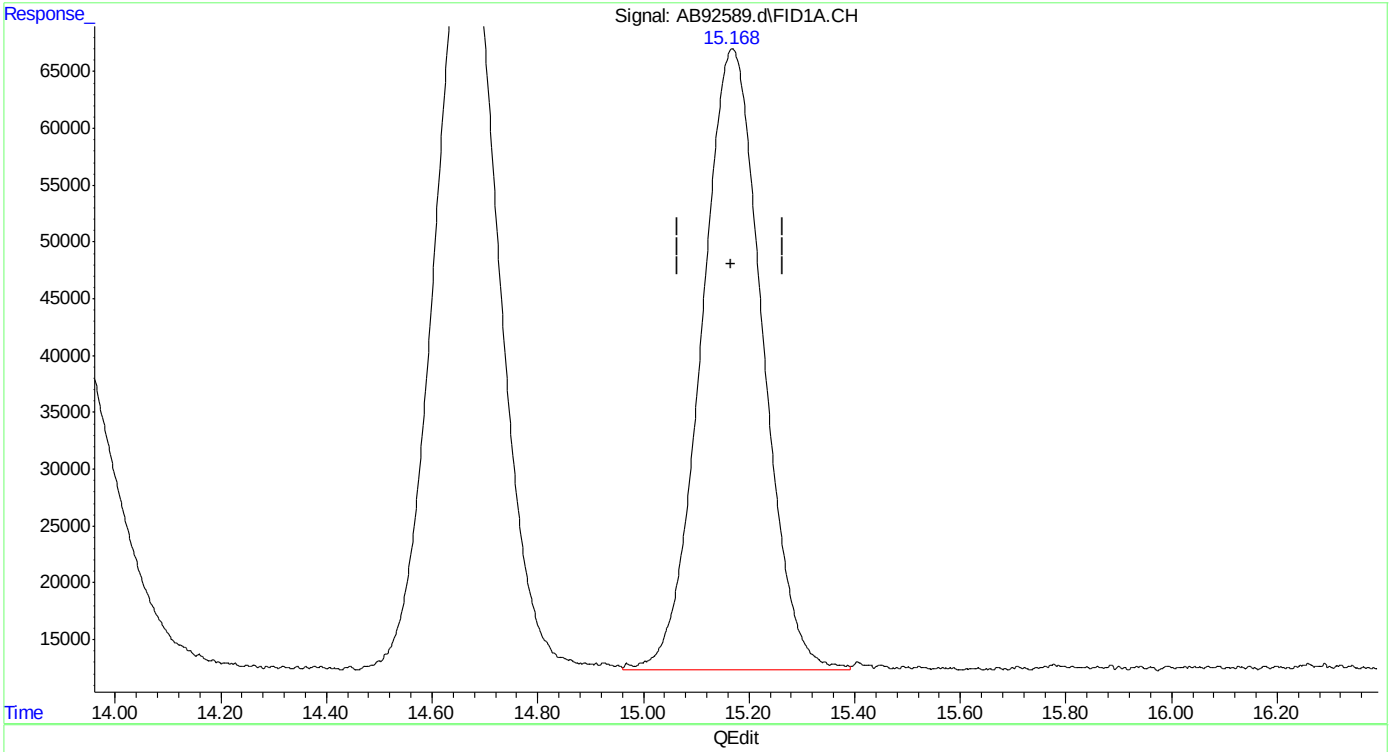
(+) = Expected Retention Time

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

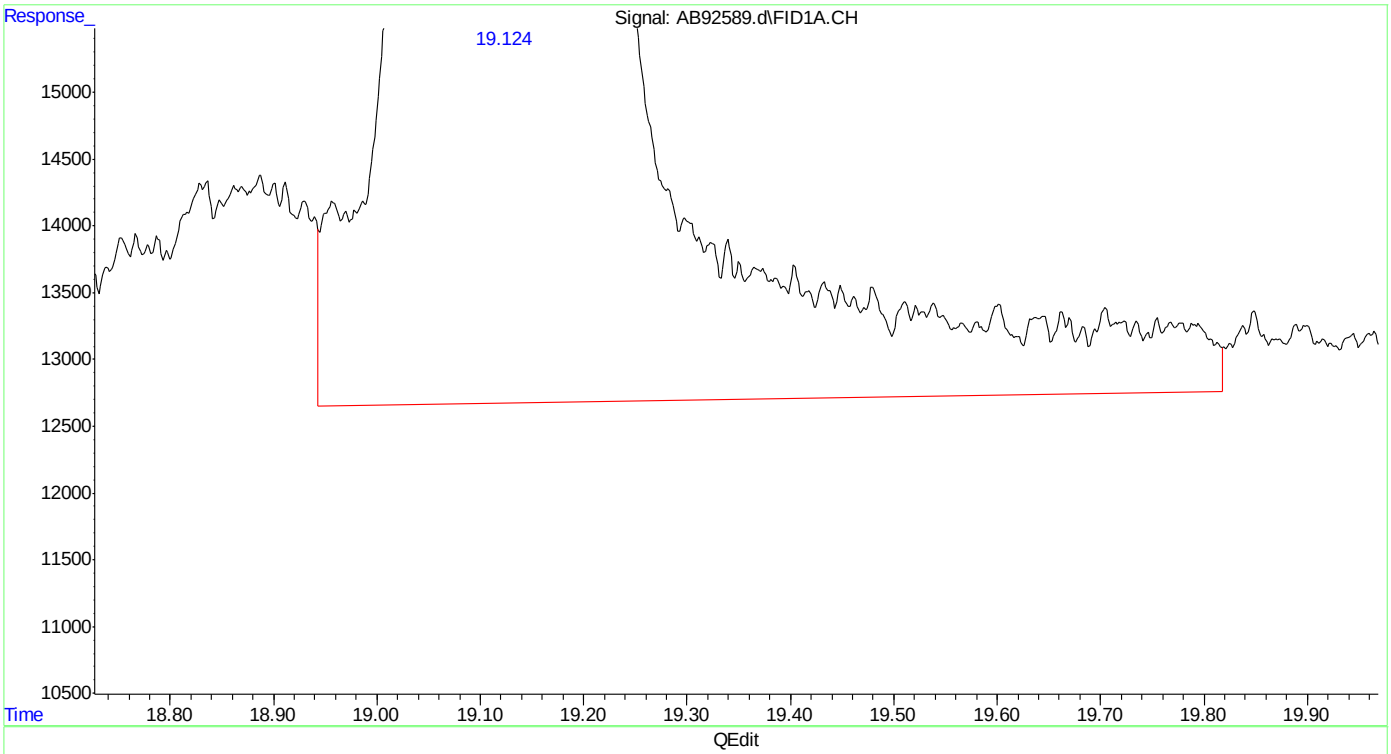
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:06:30 2016

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

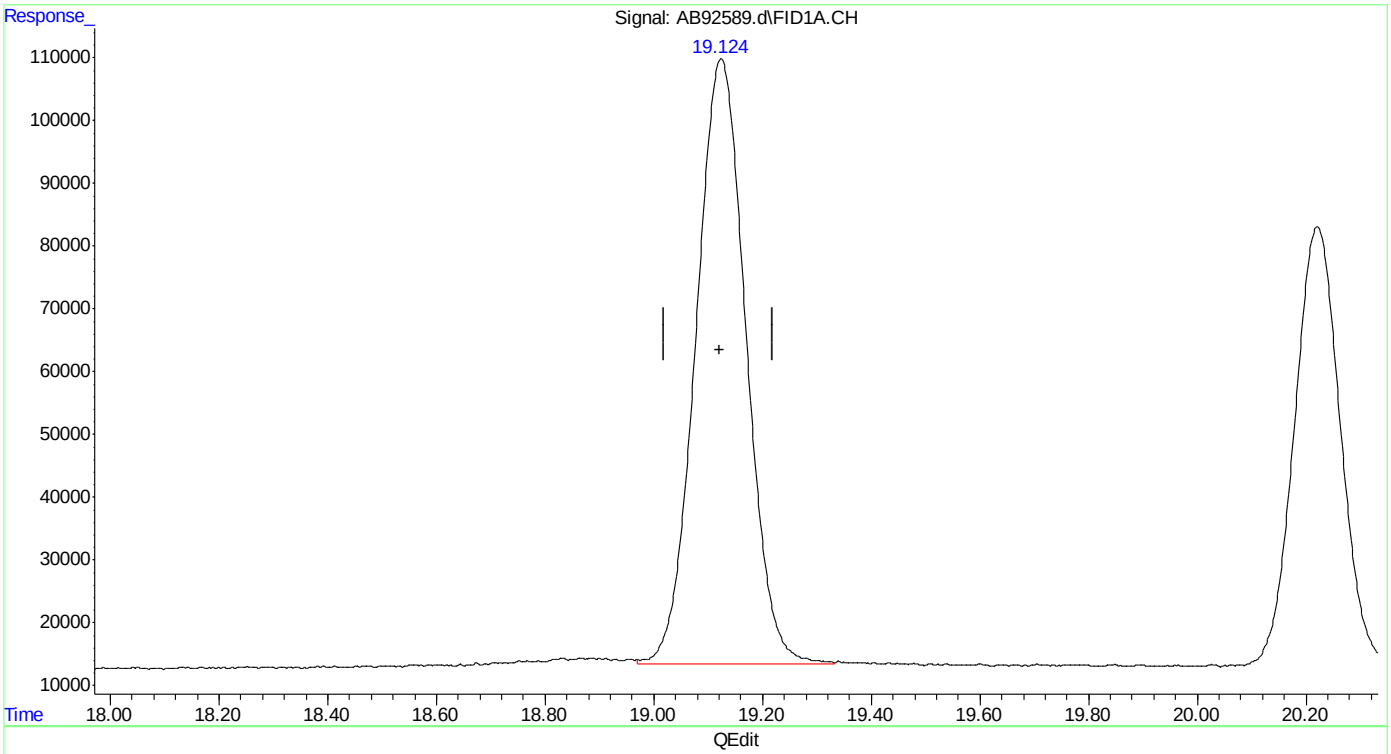
(+) = Expected Retention Time

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

SGS ACCUTEST MC45538

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

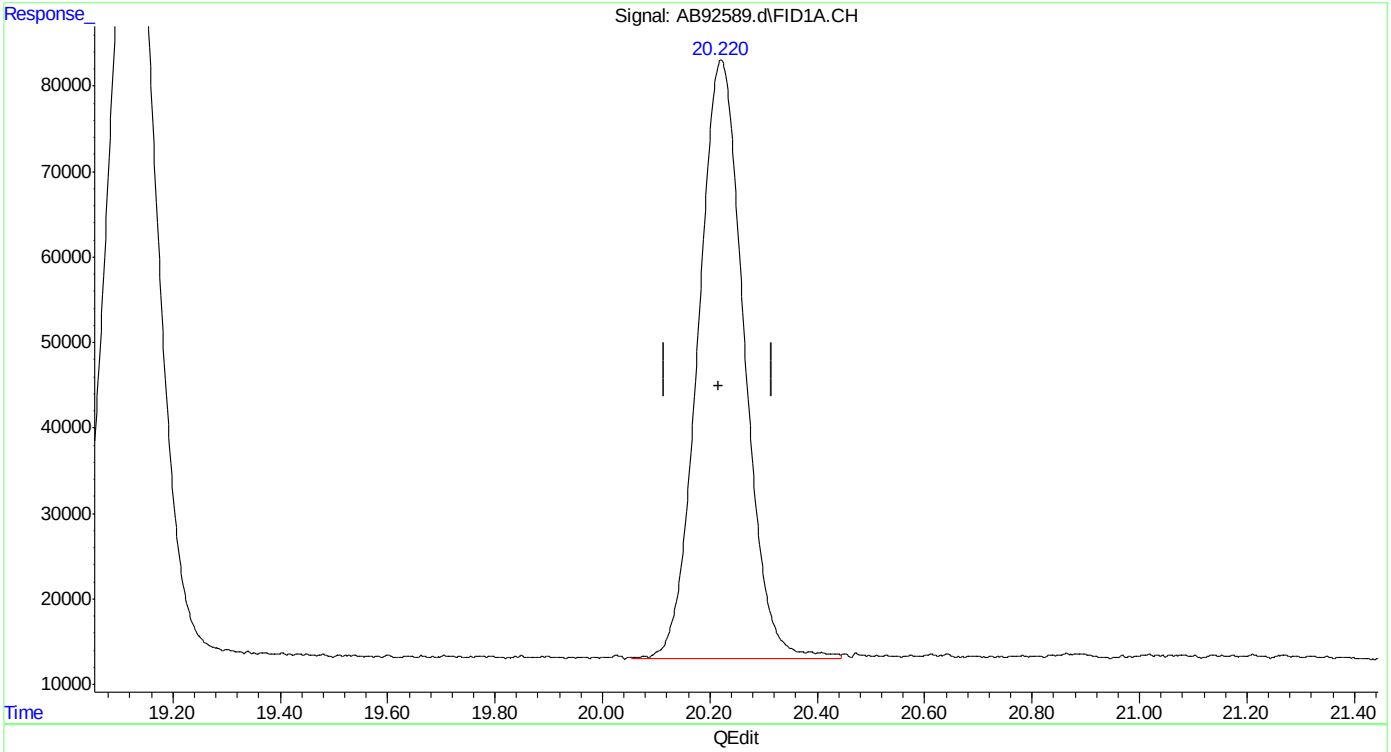
SGS ACCUTEST MC45538

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

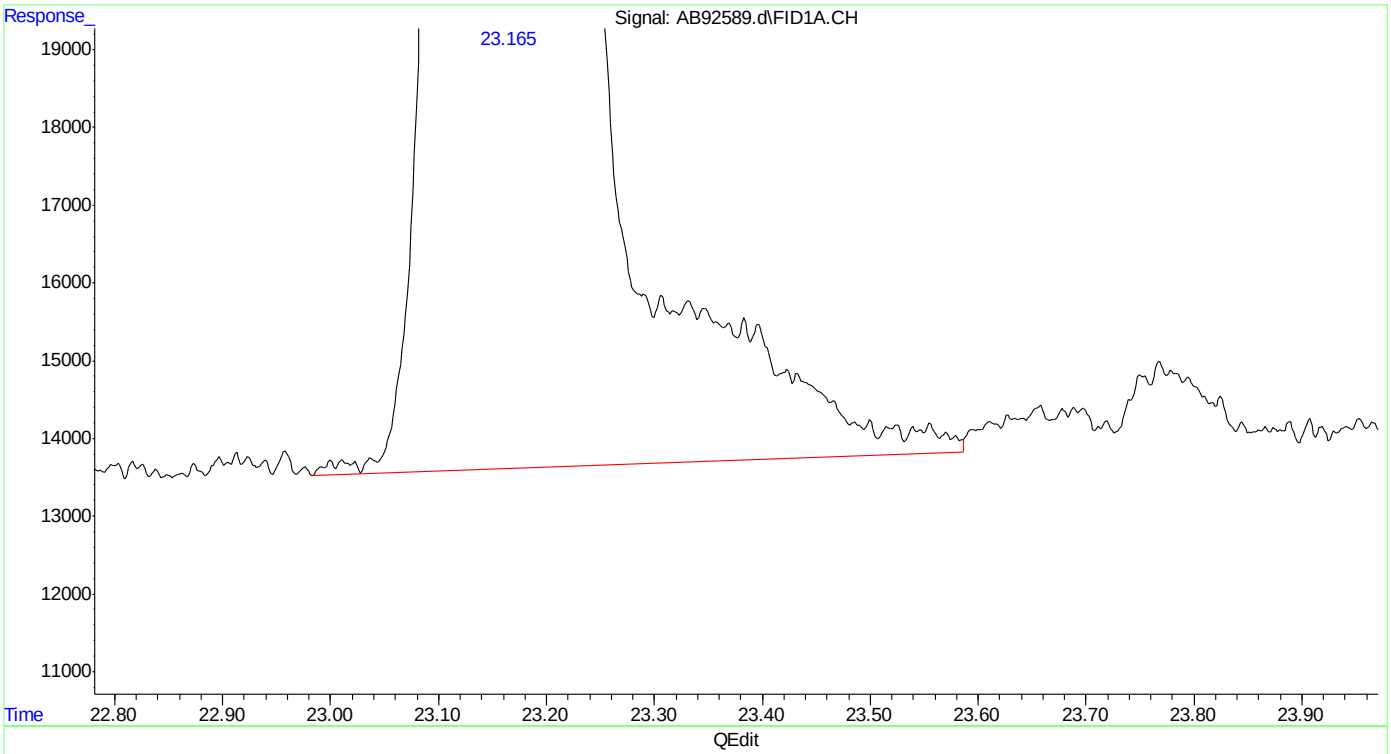
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:07:31 2016

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 10.584 ppb
response 7026957

(+) = Expected Retention Time

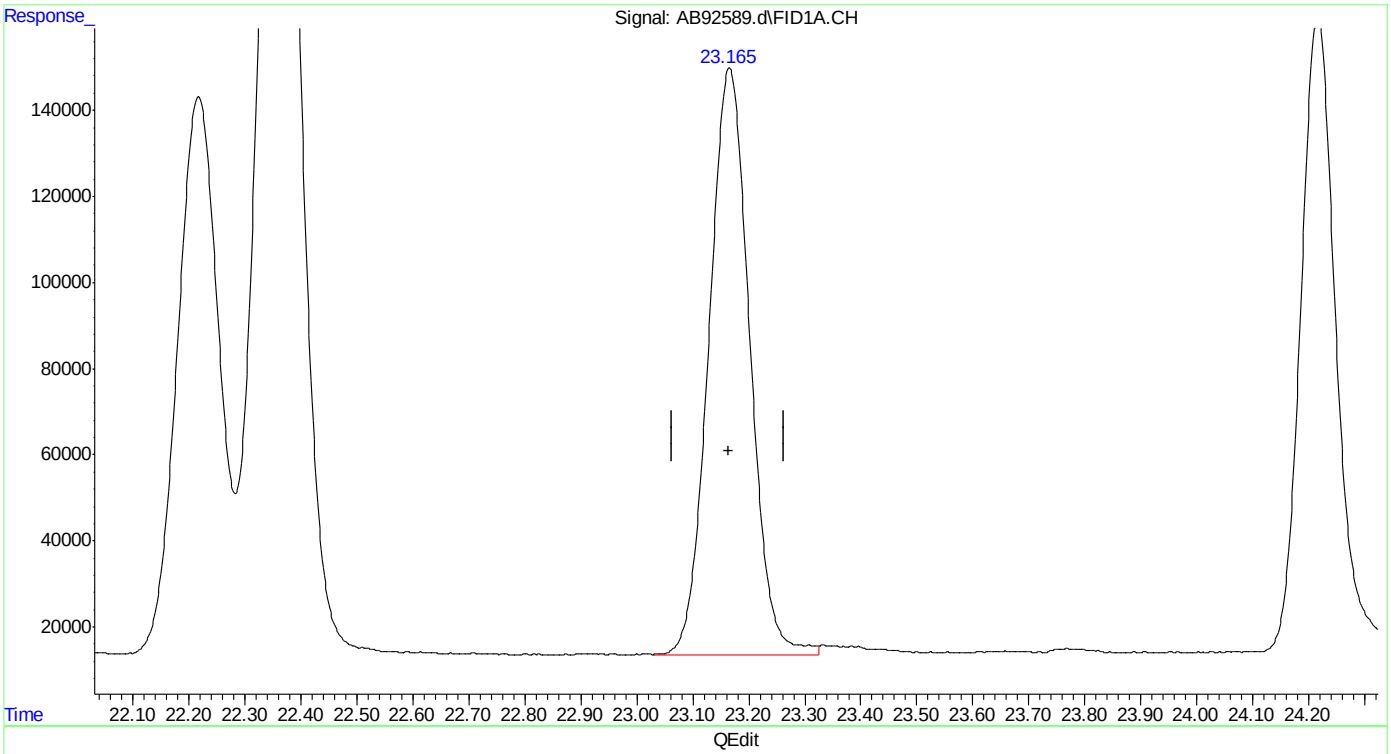
SGS ACCUTEST MC45538

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

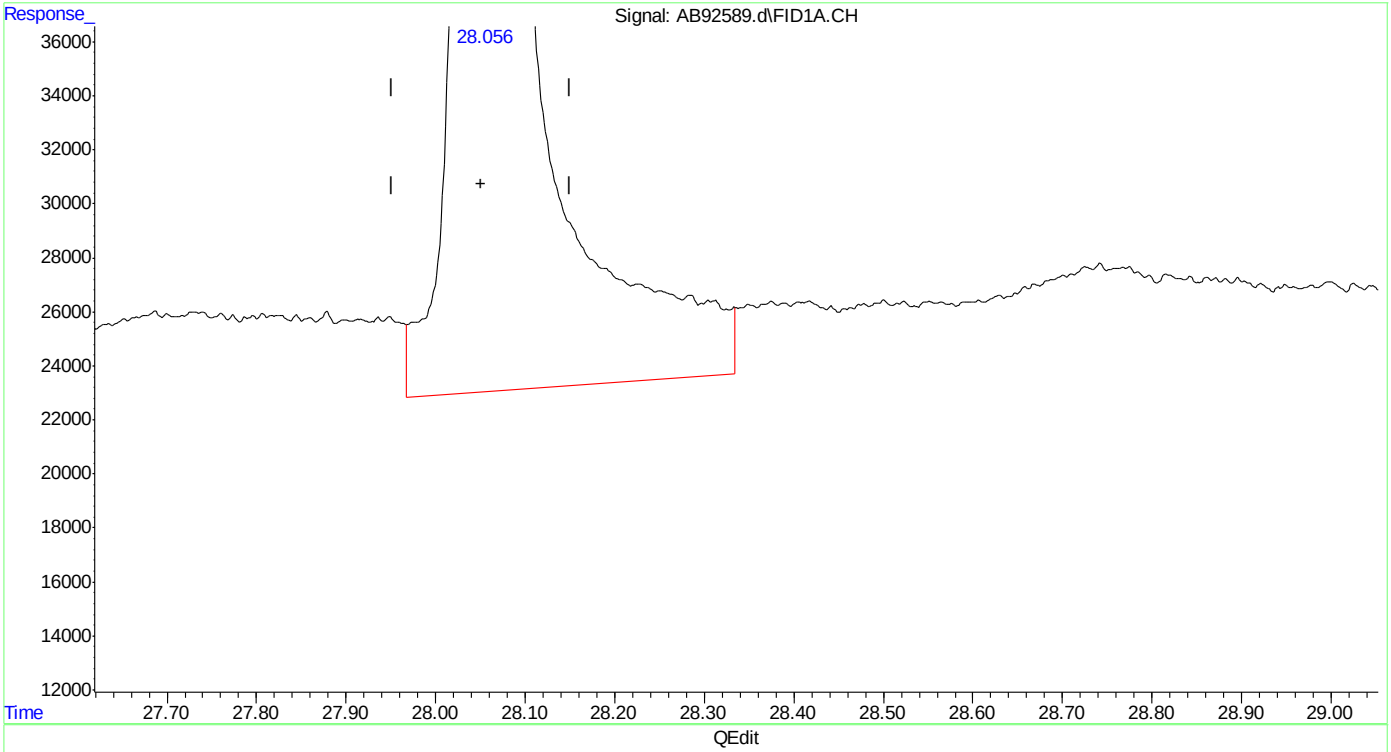
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:08:18 2016

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

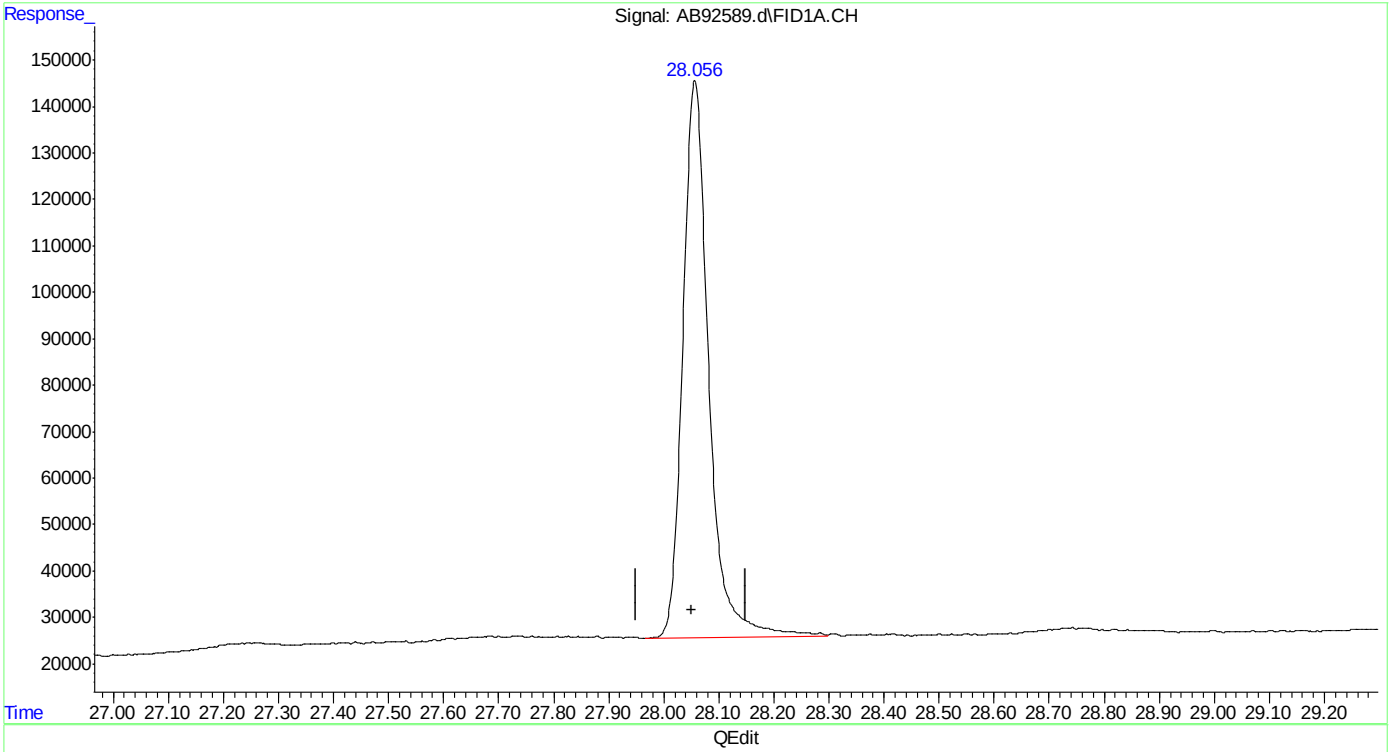
(+) = Expected Retention Time

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

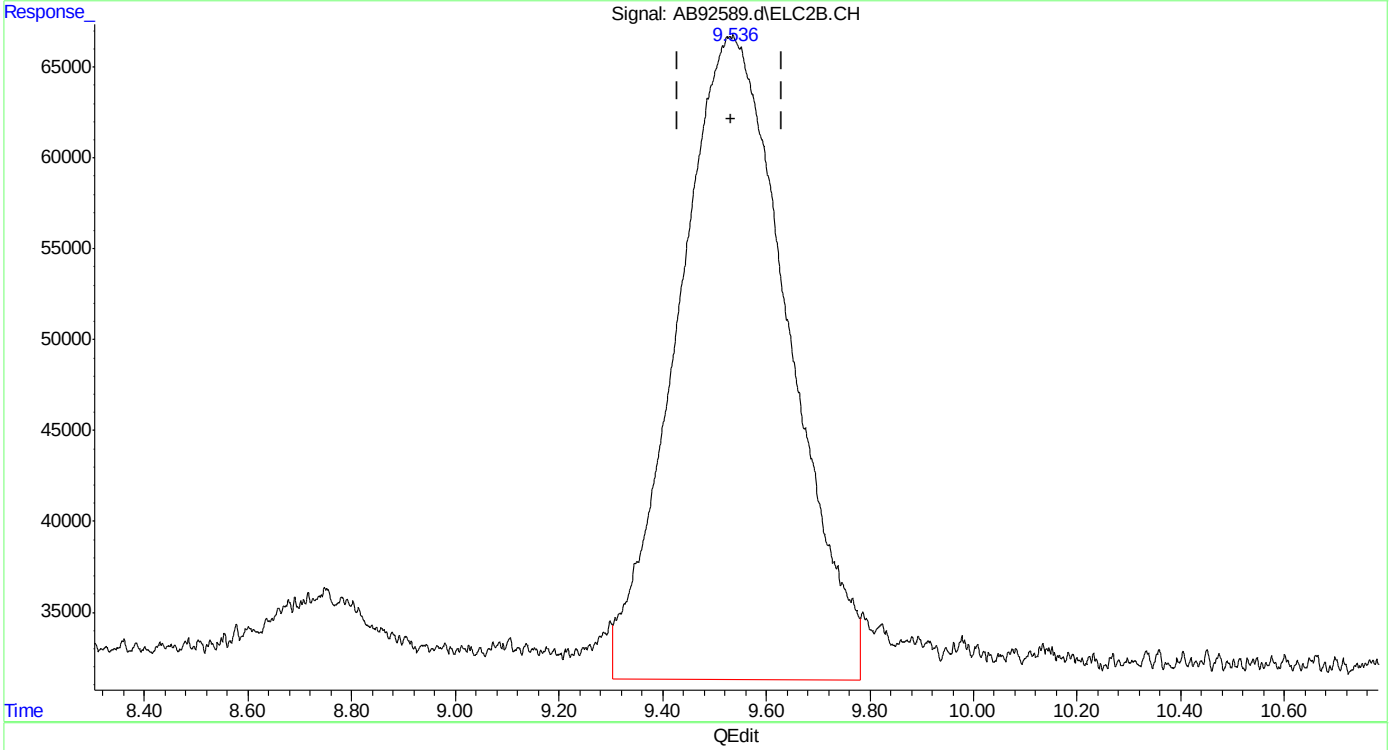
(+) = Expected Retention Time

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

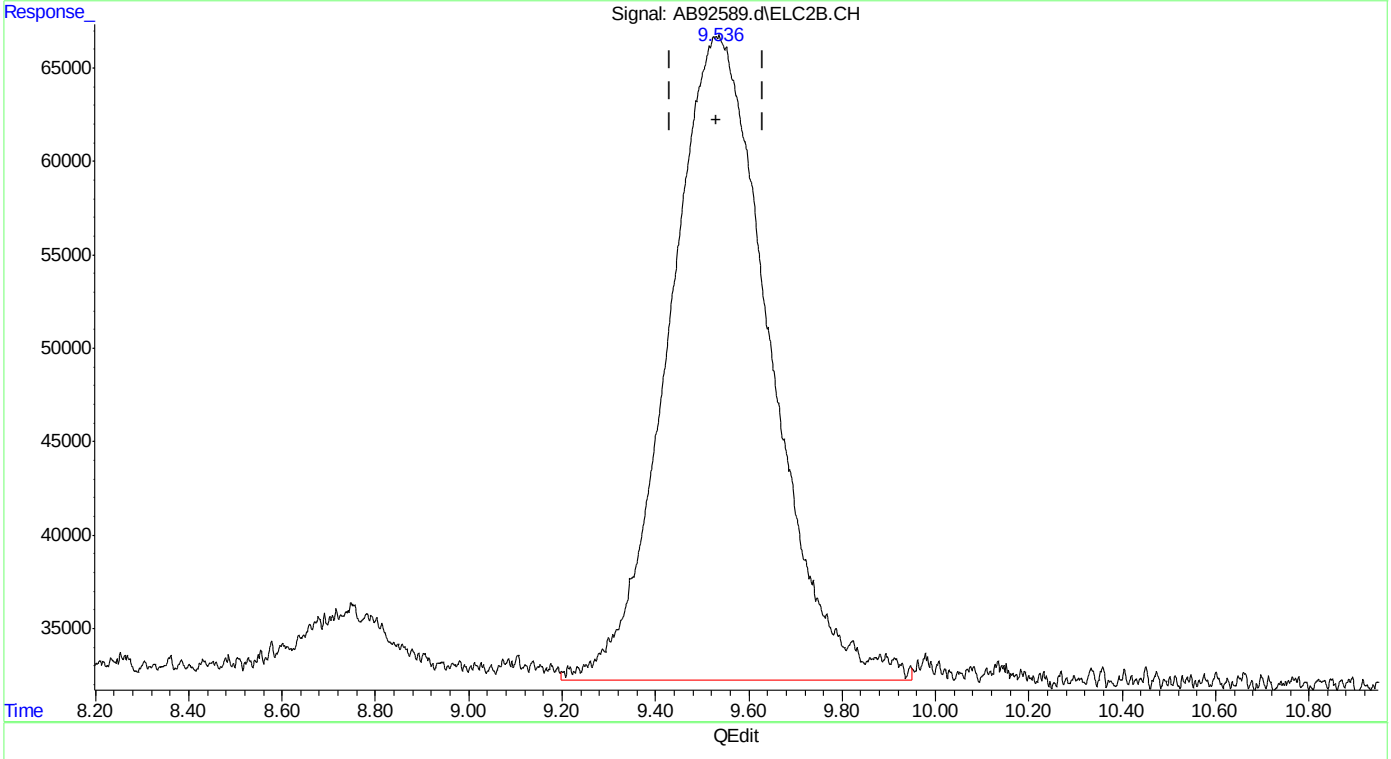
SGS ACCUTEST MC45538

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

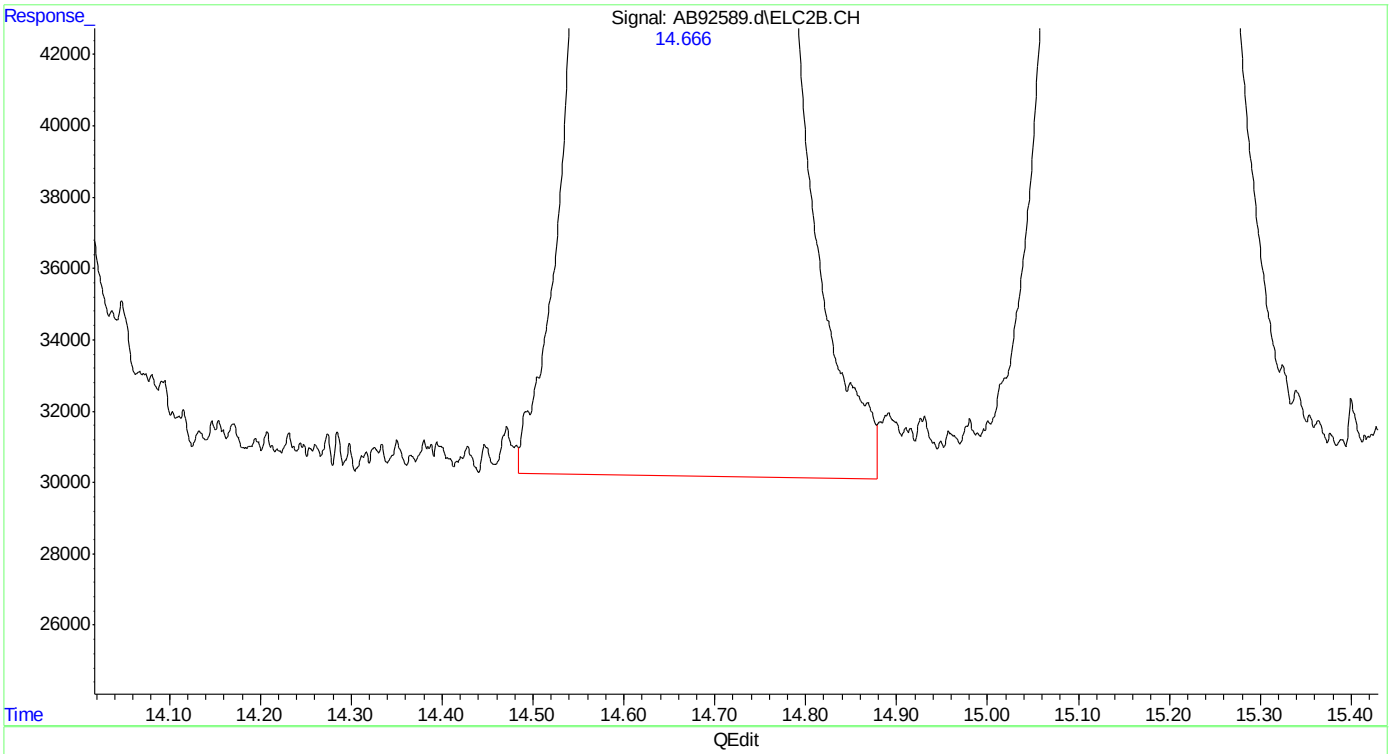
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:28 2016

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
14.665min 9.853 ppb
response 13860278

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:33 2016

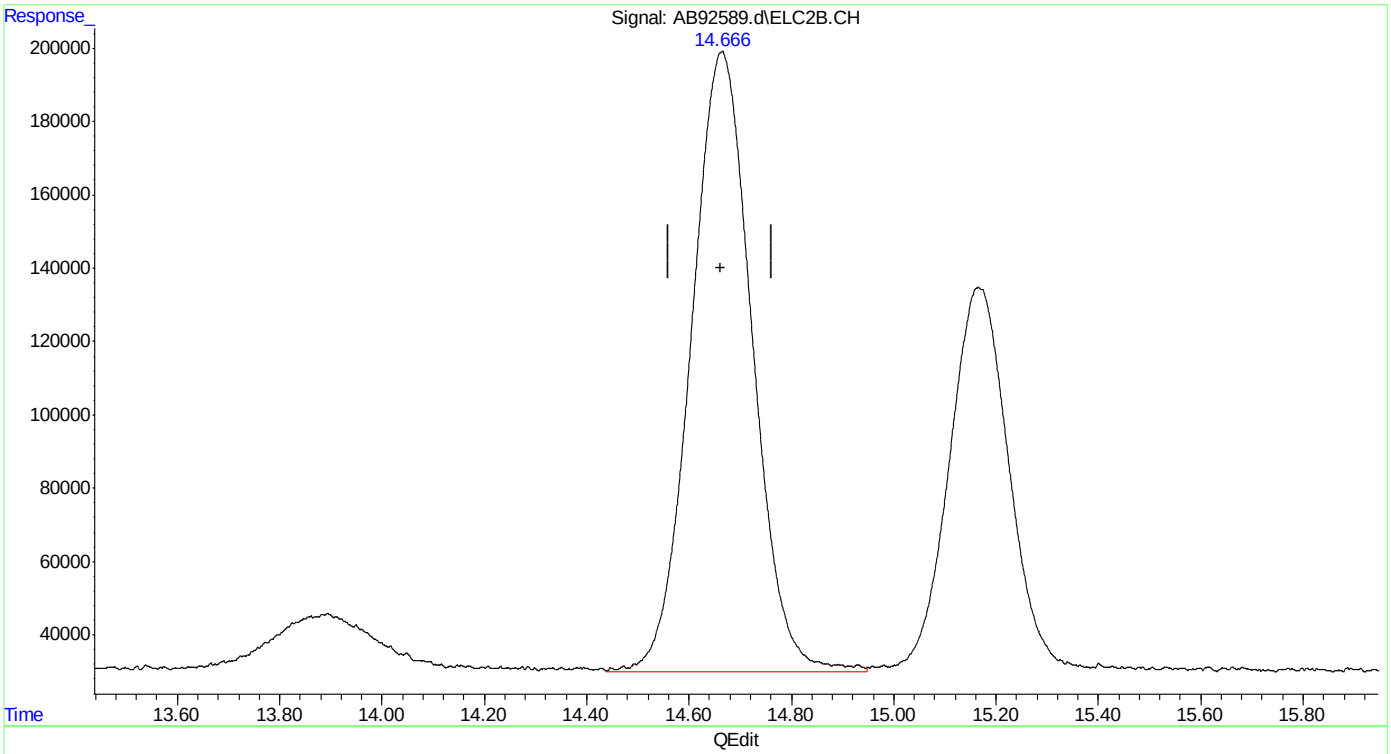
SGS ACCUTEST MC45538

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

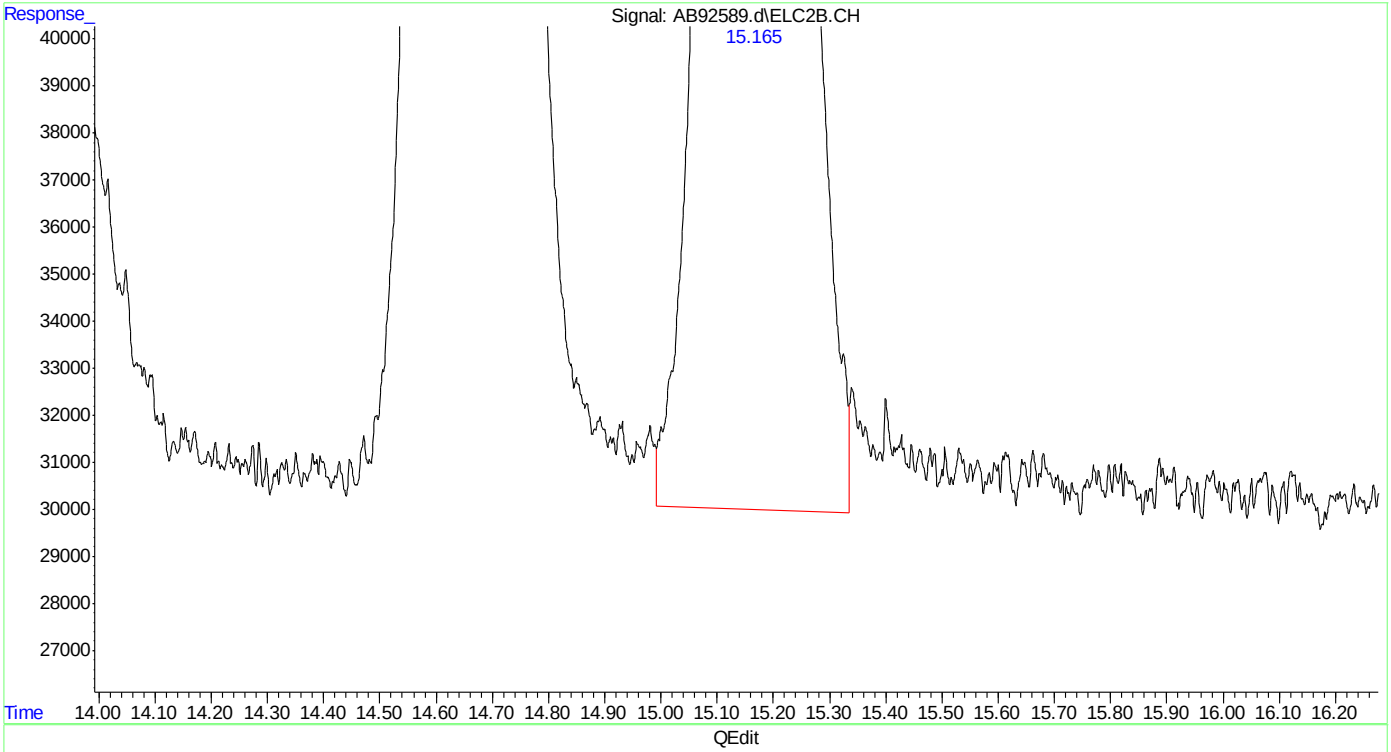
SGS ACCUTEST MC45538

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

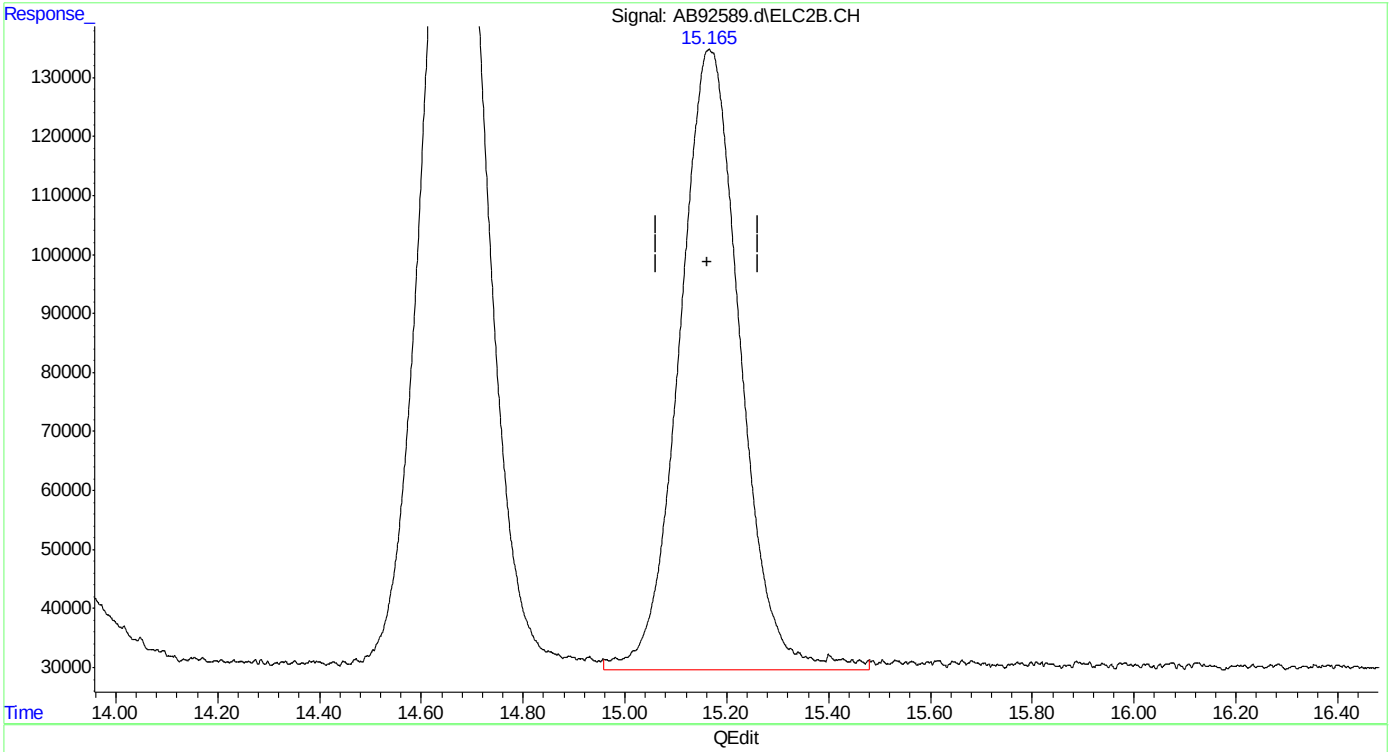
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:00 2016

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

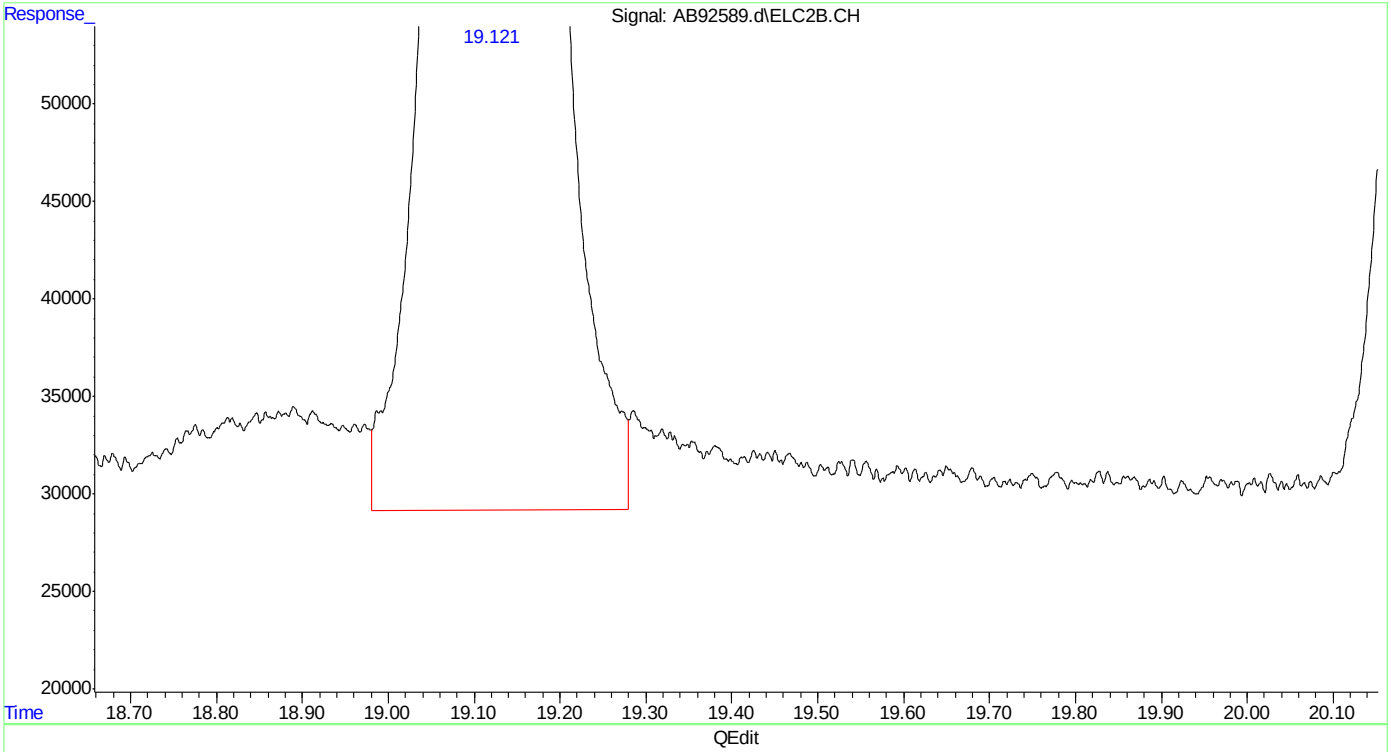
(+) = Expected Retention Time

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

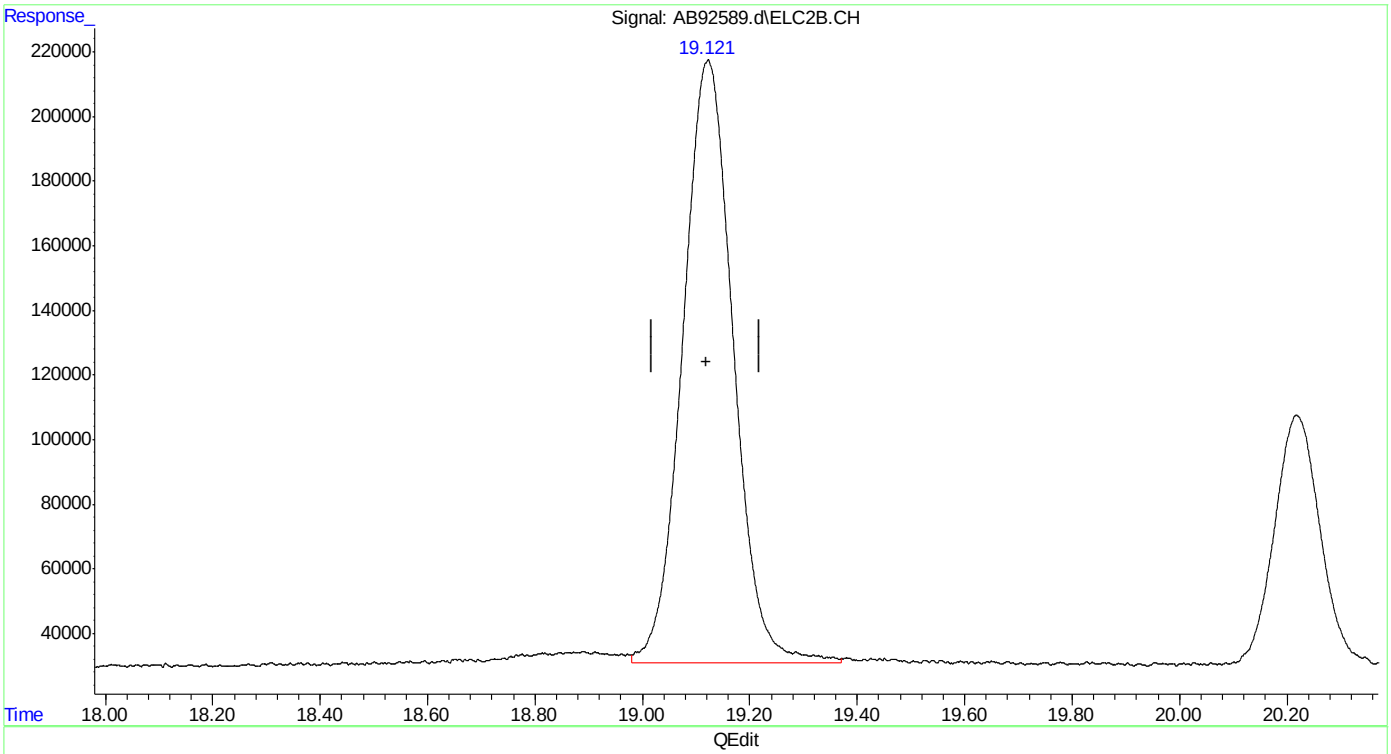
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:20 2016

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

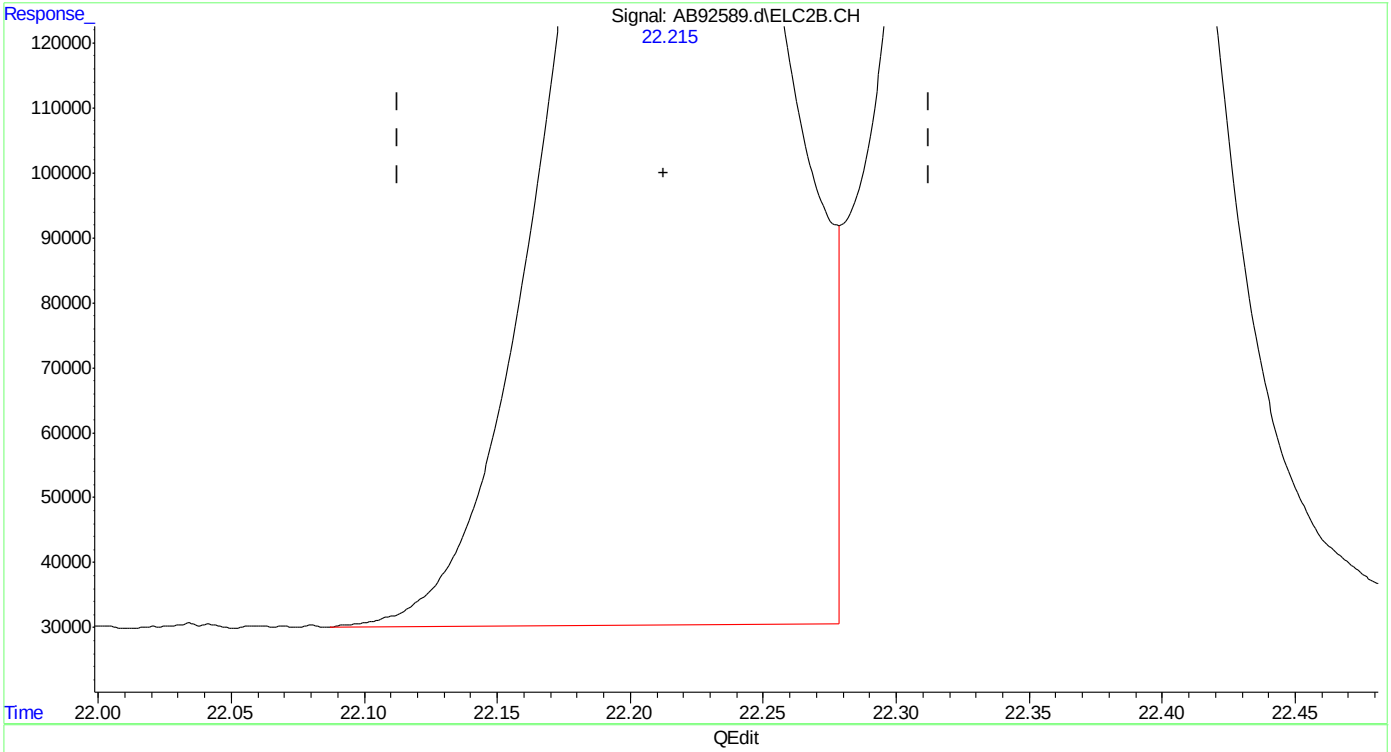
SGS ACCUTEST MC45538

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

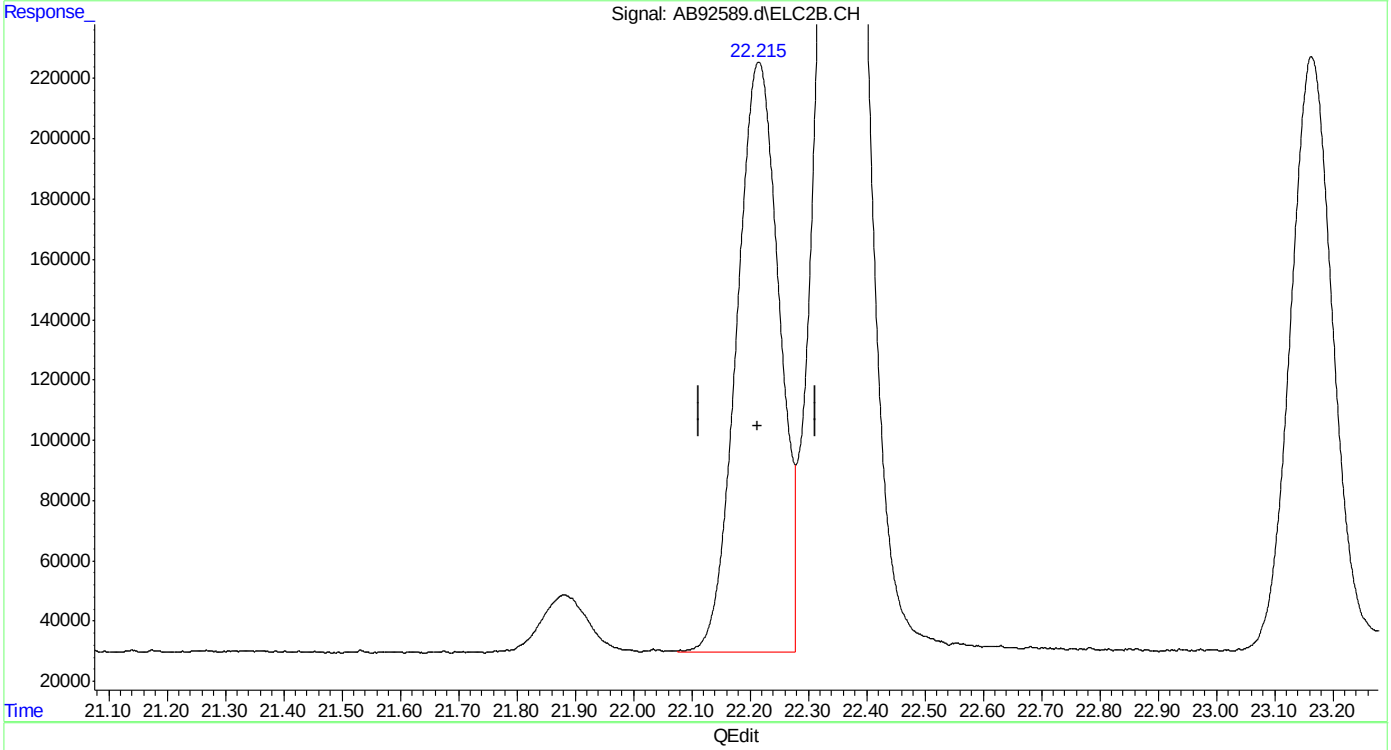
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:43 2016

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 :



(28) ethylbenzene #2
22.215min 9.999 ppb m
response 9984696

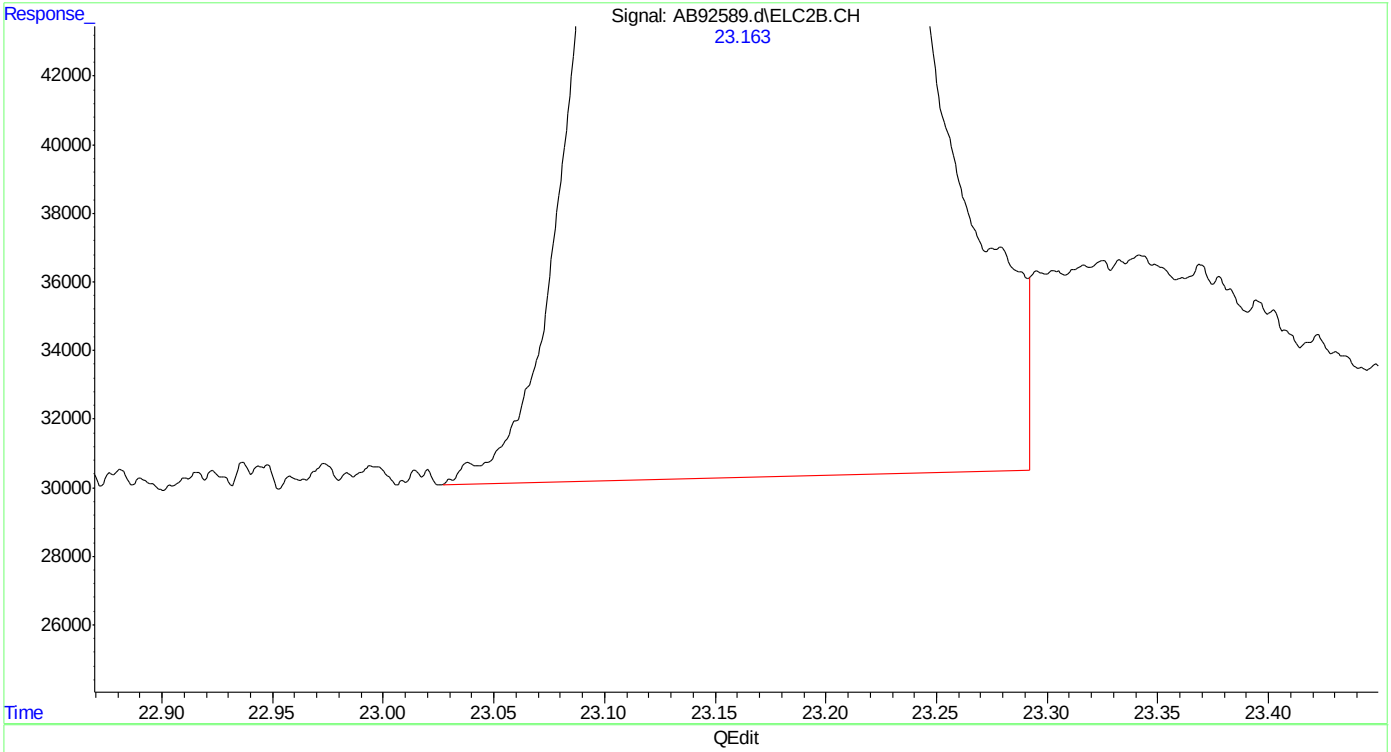
(+) = Expected Retention Time

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

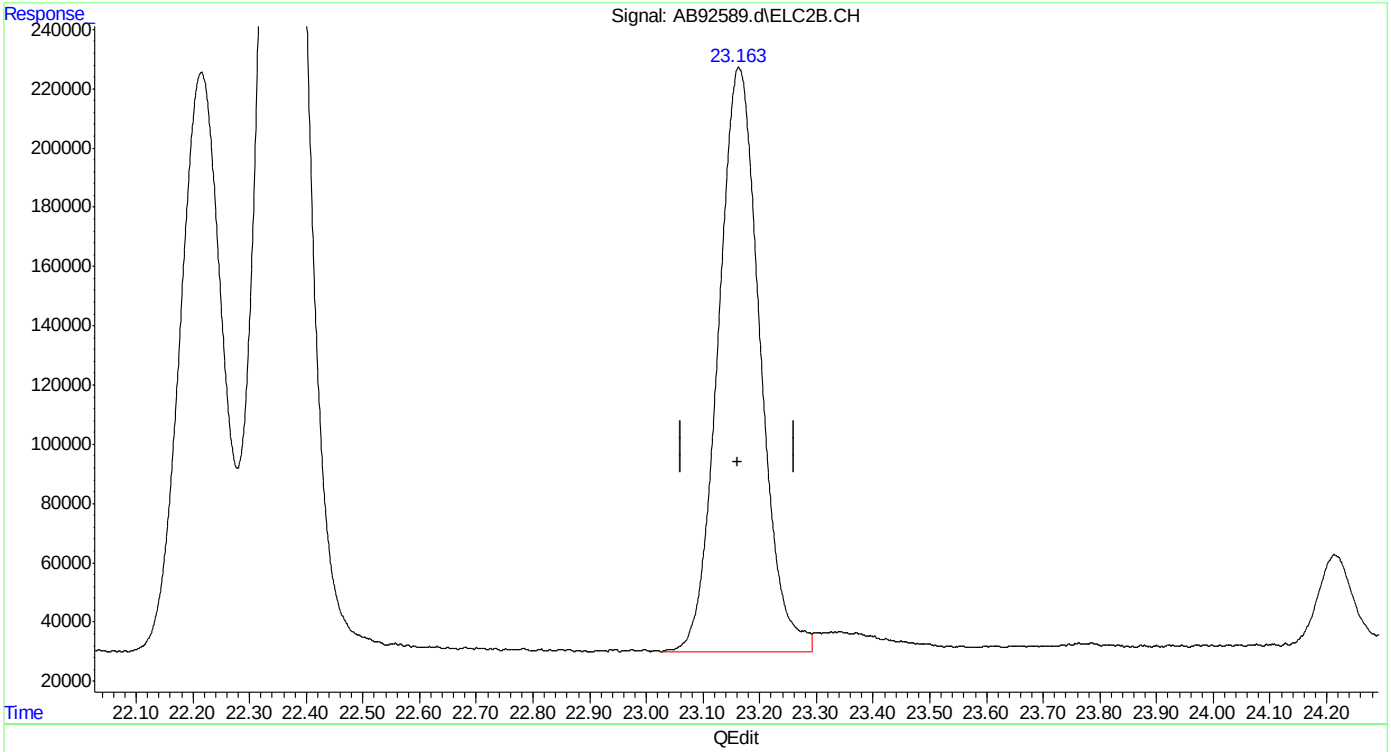
SGS ACCUTEST MC45538

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

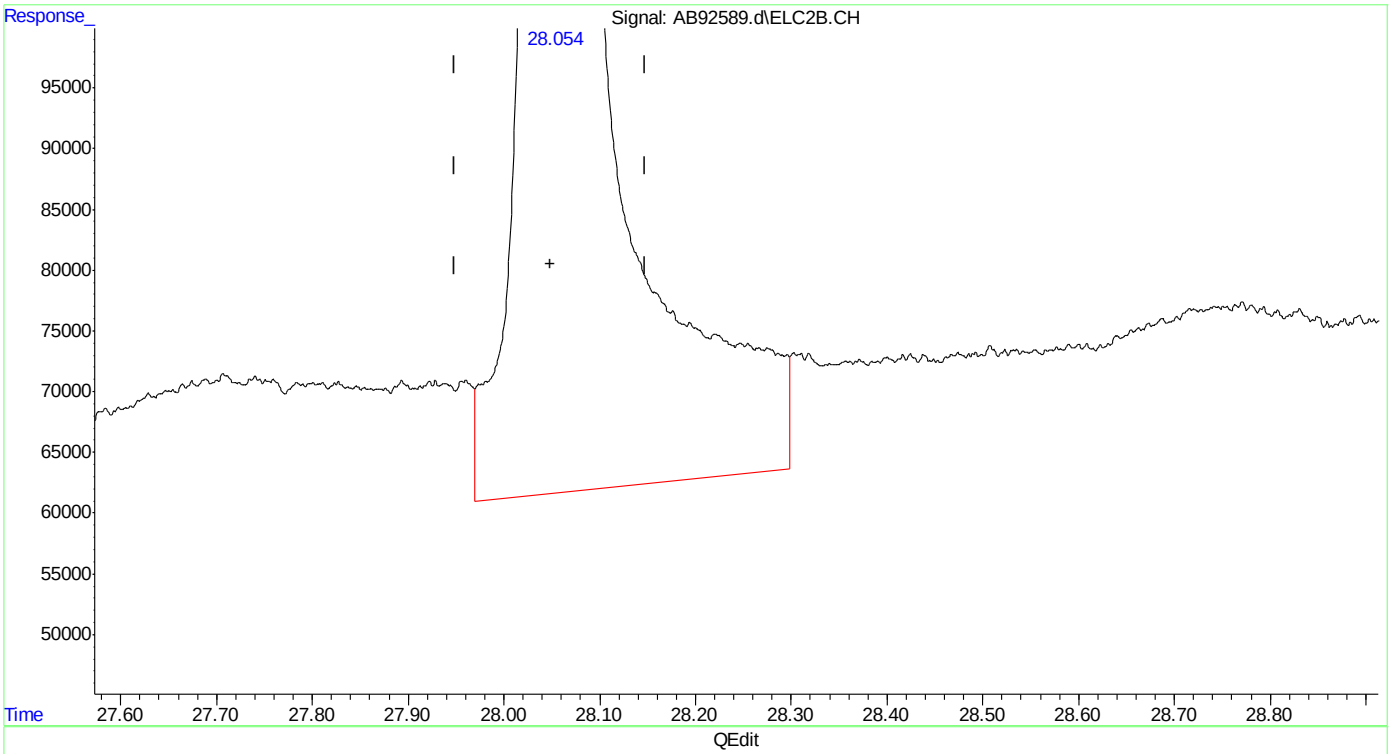
SGS ACCUTEST MC45538

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

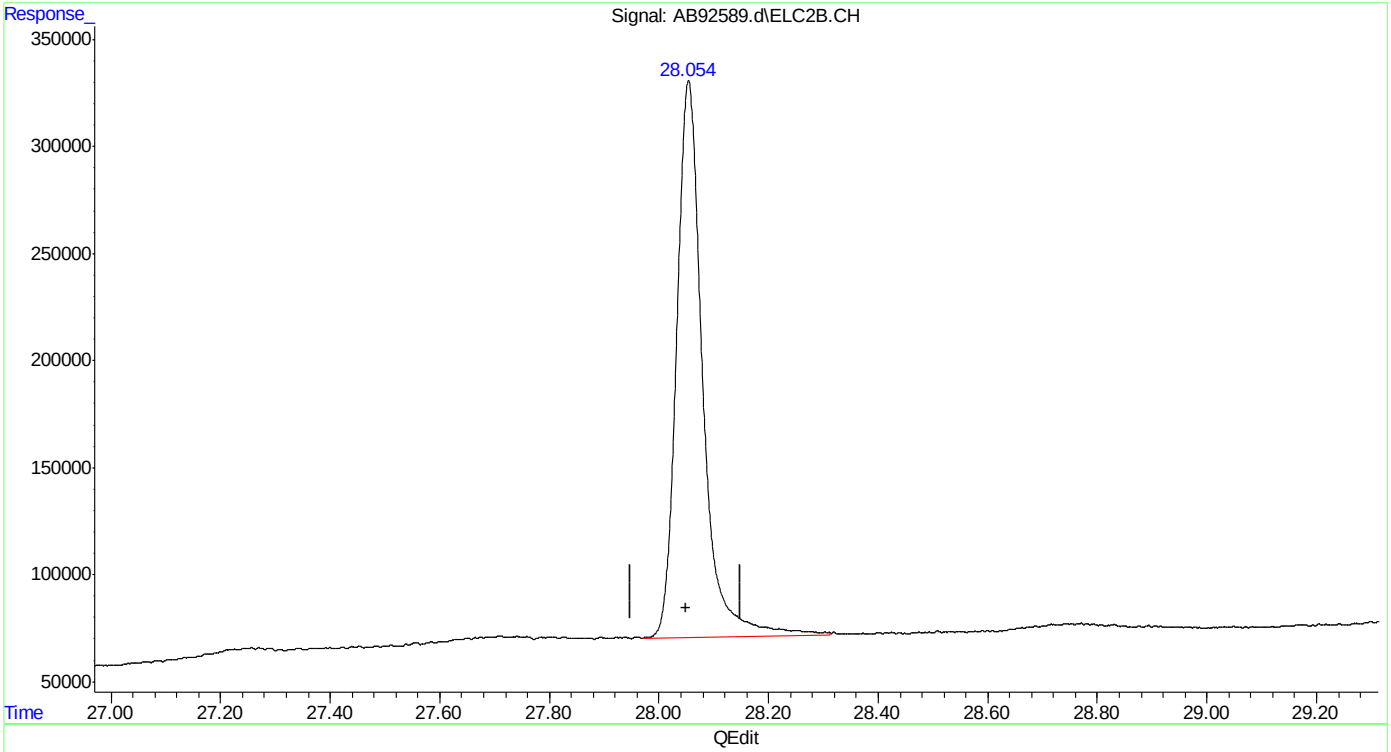
SGS ACCUTEST MC45538

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

SGS ACCUTEST MC45538

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

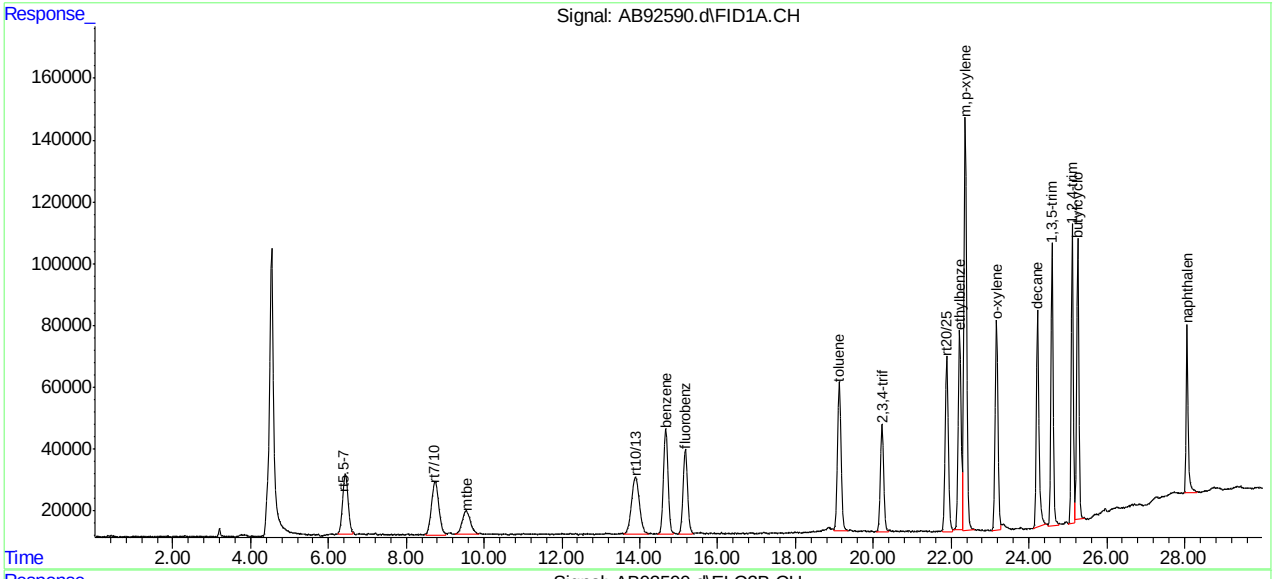
(f)=RT Delta > 1/2 Window (m)=manual int.

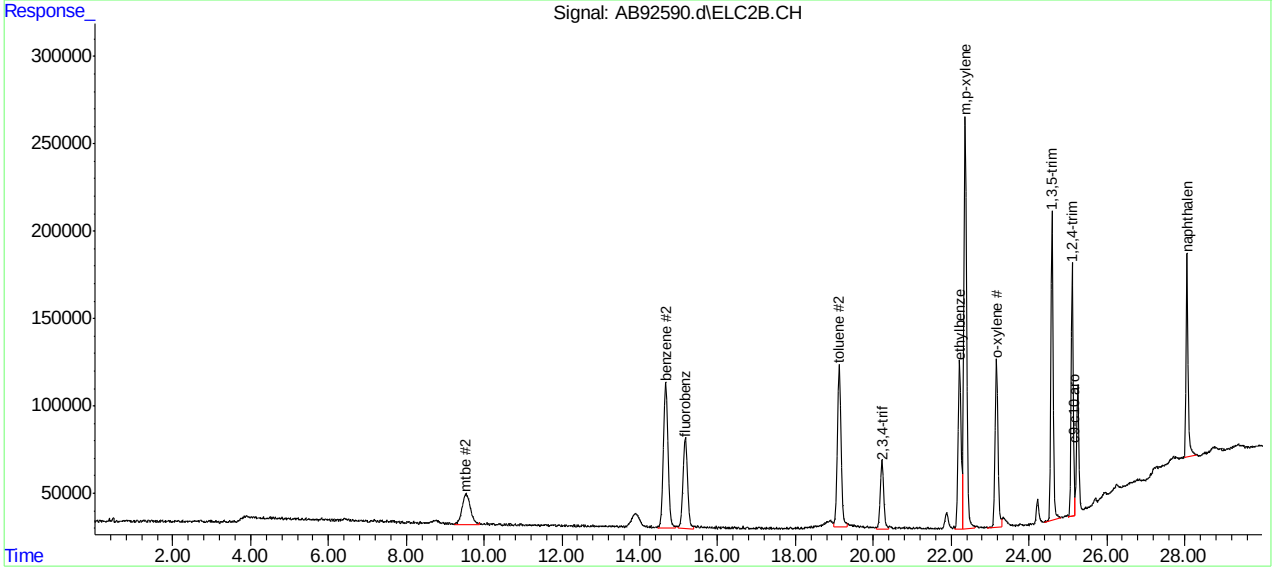
Quantitation Report (QT Reviewed)

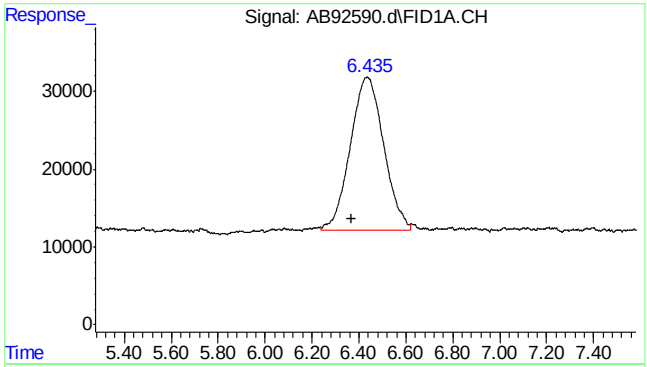
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

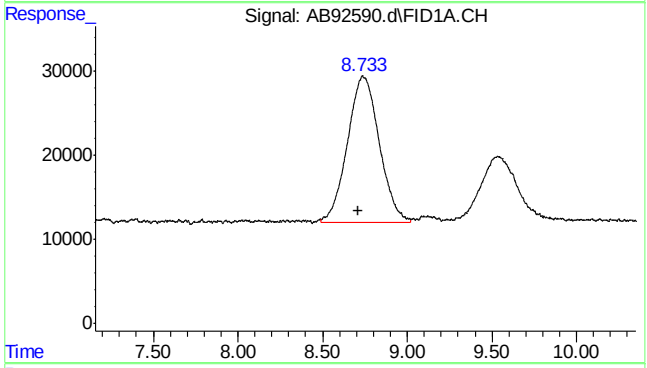






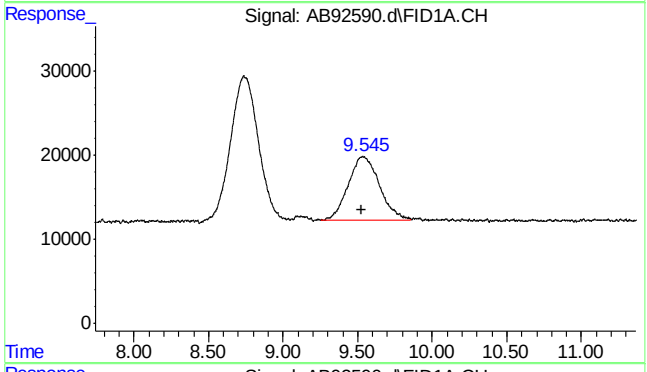
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 1948123
Conc: 5.39 ppb m



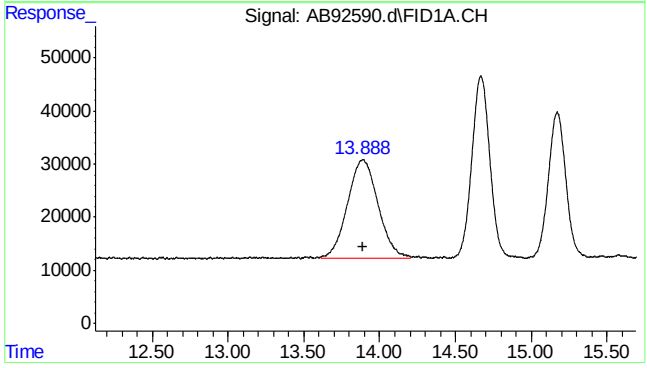
#2 rt7/10

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

7.4.7

7

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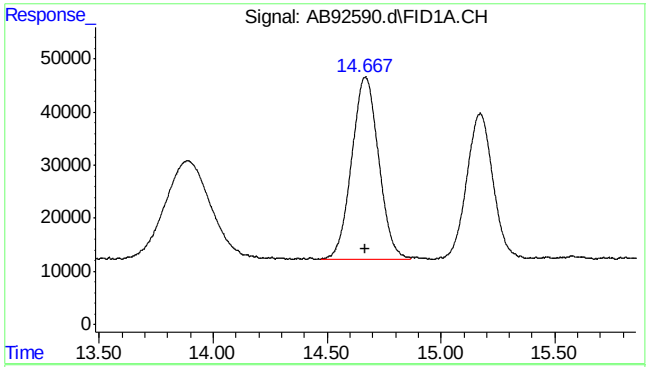
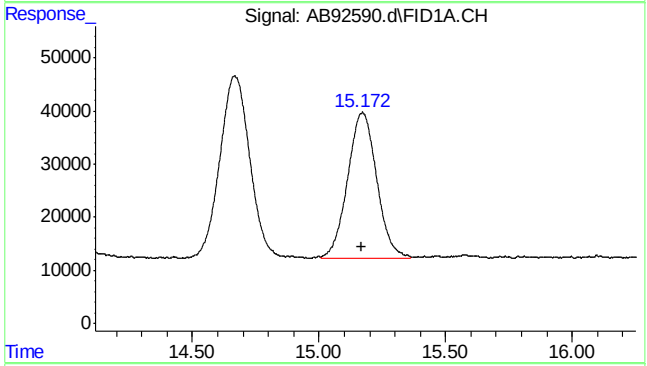


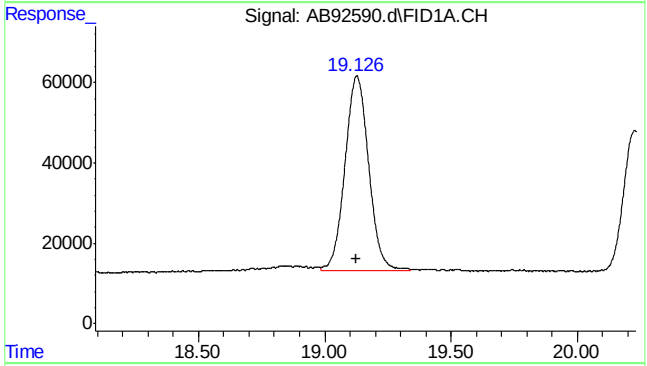
#5 benzene

R.T.: 14.667 min
Delta R.T.: 0.002 min
Response: 2826290
Conc: 5.10 ppb



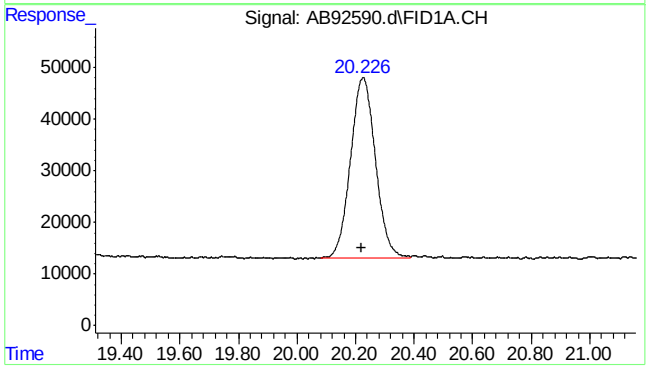
#6 fluorobenzene

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



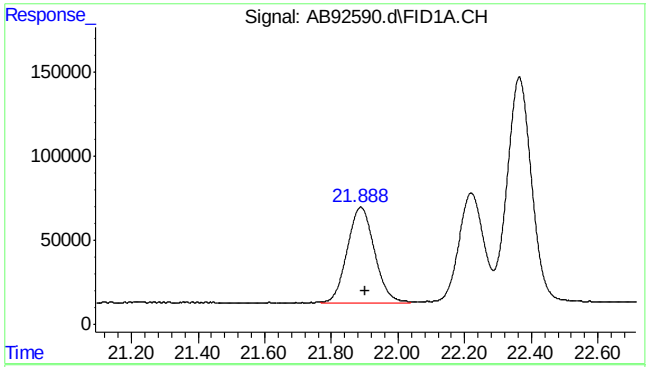
#9 2,3,4-trifluorotoluene

R.T.: 20.226 min
Delta R.T.: 0.006 min
Response: 2067831
Conc: 5.03 ppb

7.4.7

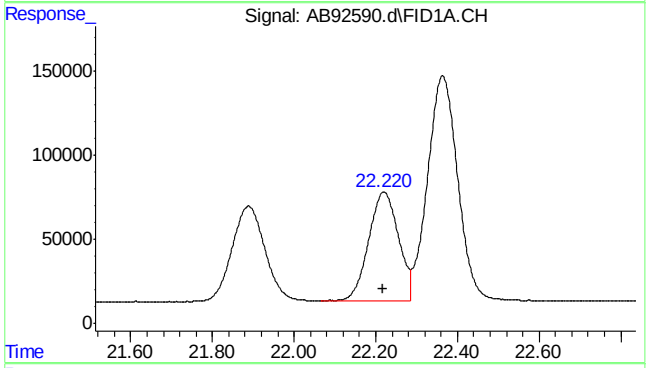
7

SGS ACCUTEST MC45538



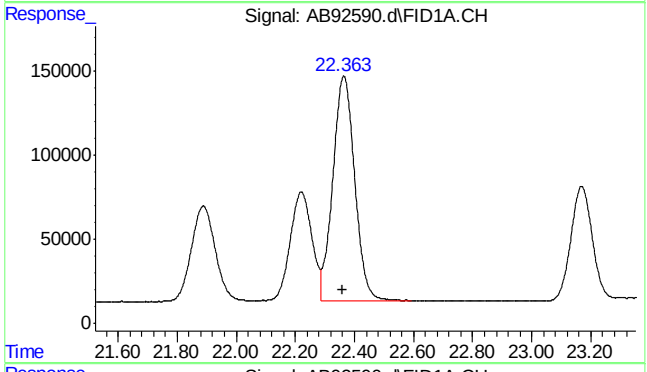
#11 rt20/25

```
      R.T.:   21.900 min
Delta R.T.:    0.000 min
  Response:   3202956
      Conc:   5.33 ppb m
```



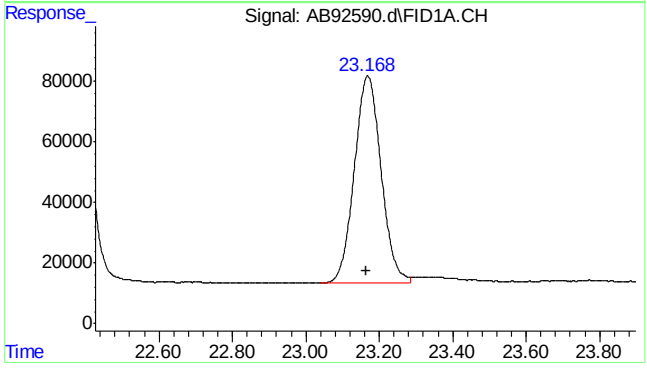
#13 ethylbenzene

```
      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
```



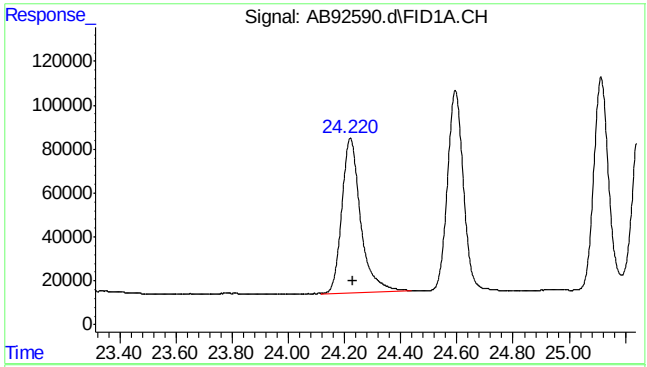
#15 o-xylene

```
      R.T.:   23.168 min
Delta R.T.:    0.003 min
  Response:   3460195
      Conc:   5.11 ppb m
```

7.4.7

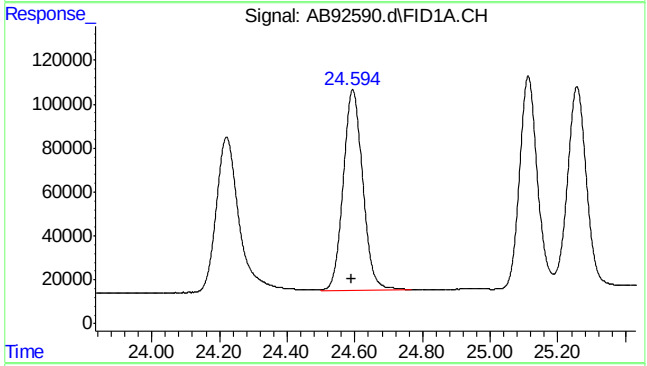
7

SGS ACCUTEST MC45538



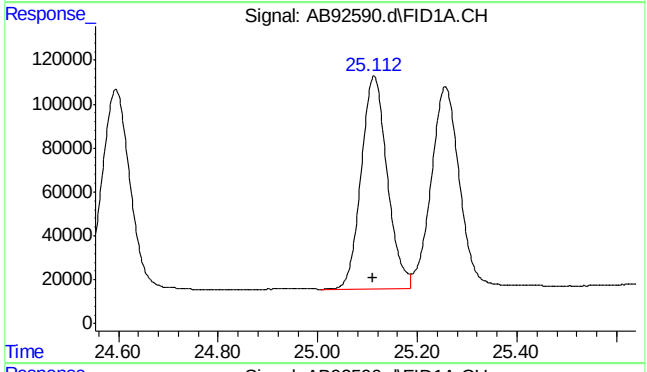
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 3274046
Conc: 5.34 ppb m



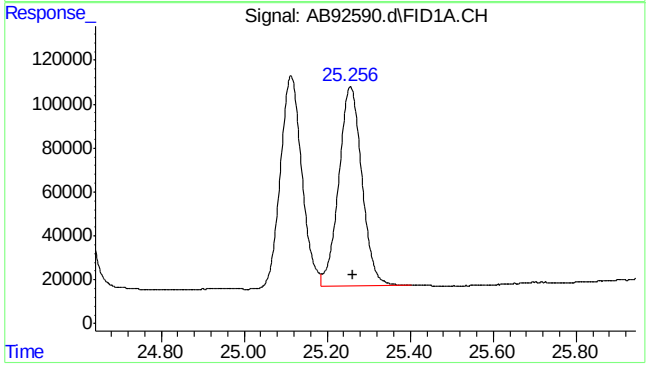
#17 1,3,5-trimethylbenzene

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



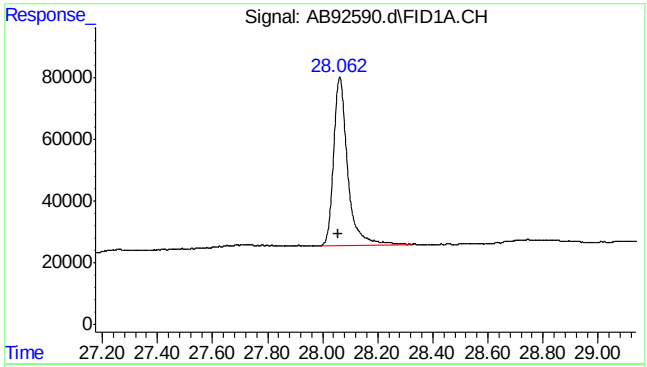
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 3520100
Conc: 5.38 ppb m

7.4.7

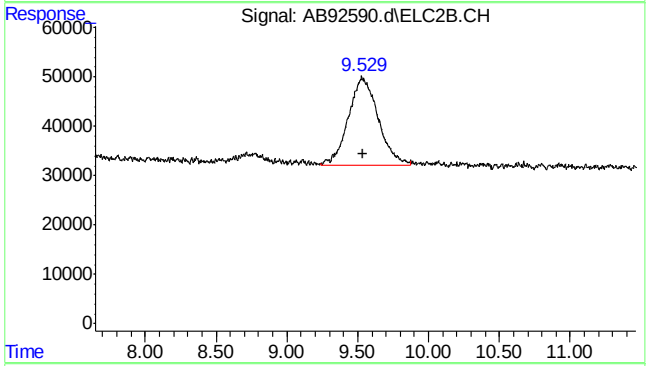
7

SGS ACCUTEST MC45538



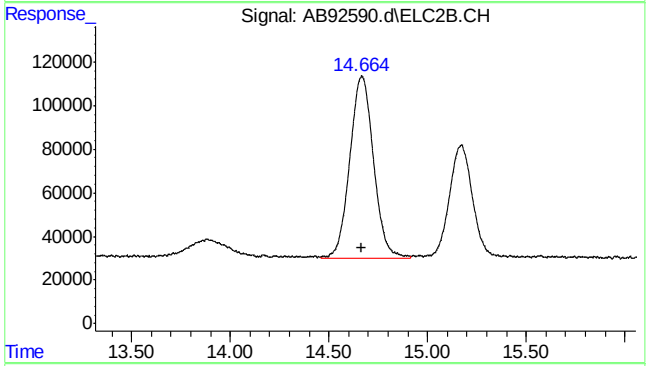
#20 naphthalene

R.T.: 28.062 min
Delta R.T.: 0.006 min
Response: 1936540
Conc: 5.28 ppb m



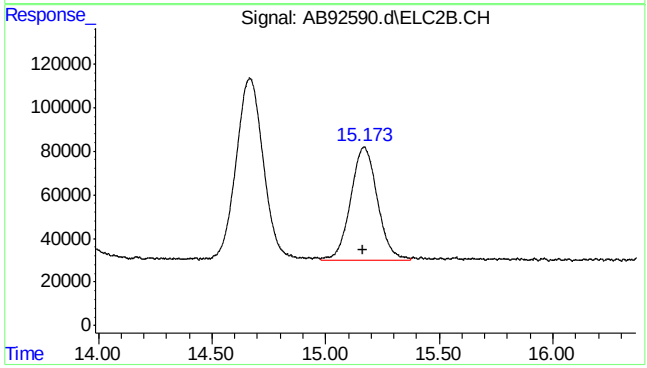
#23 mtbe #2

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



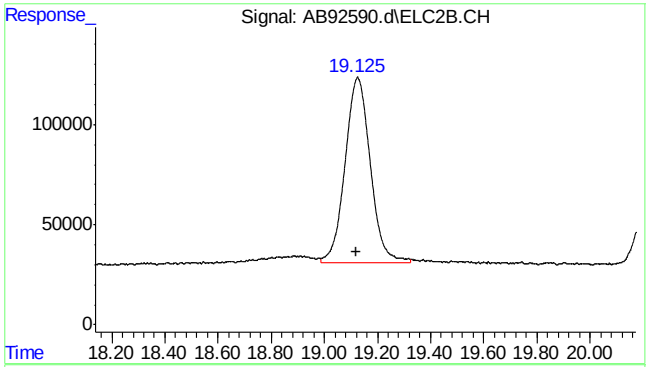
#25 fluorobenzene #2

R.T.: 15.171 min
Delta R.T.: 0.006 min
Response: 4291225
Conc: 4.86 ppb

7.4.7

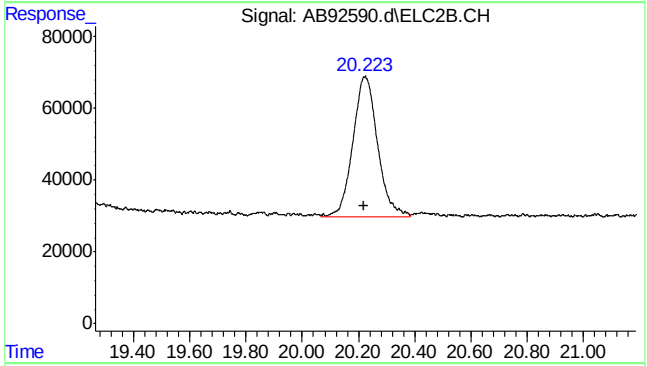
7

SGS ACCUTEST MC45538



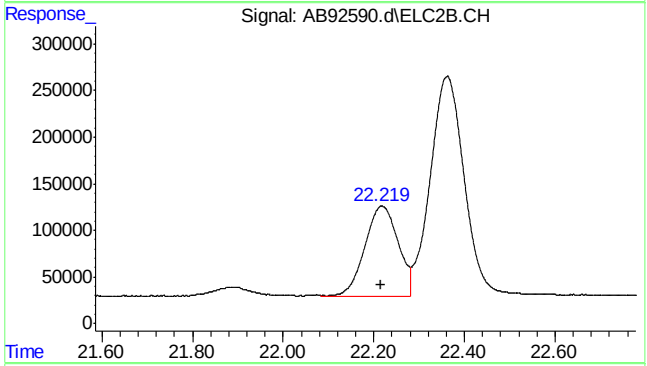
#26 toluene #2

R.T.: 19.125 min
Delta R.T.: 0.004 min
Response: 6163190
Conc: 5.08 ppb m



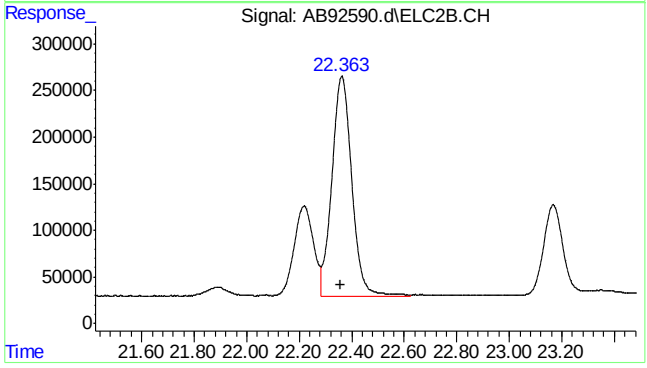
#27 2,3,4-trifluorotoluene #2

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

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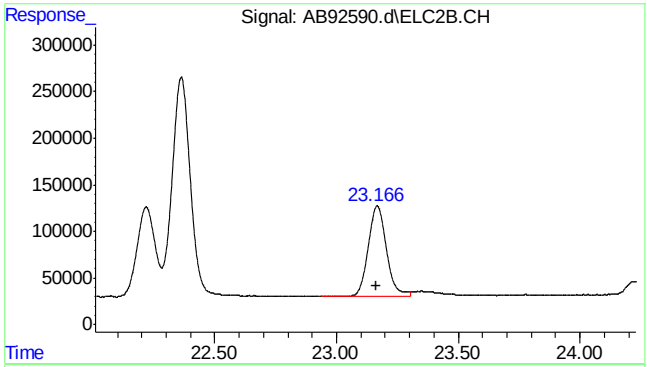
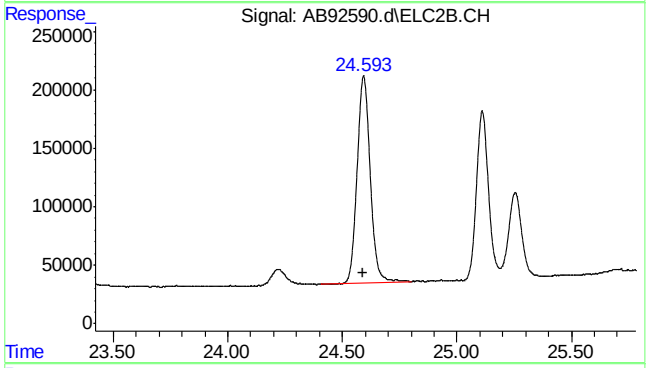


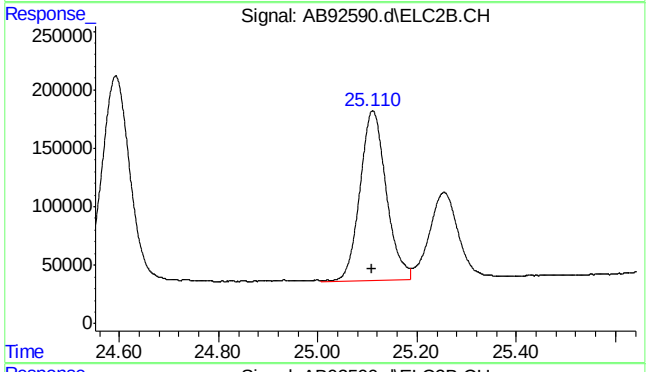
#30 o-xylene #2

R.T.: 23.167 min
Delta R.T.: 0.004 min
Response: 5064076
Conc: 5.01 ppb



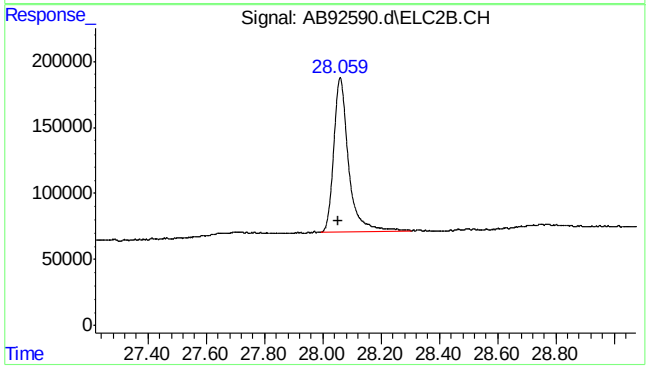
#31 1,3,5-trimethylbenzene #2

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

7.4.7

7

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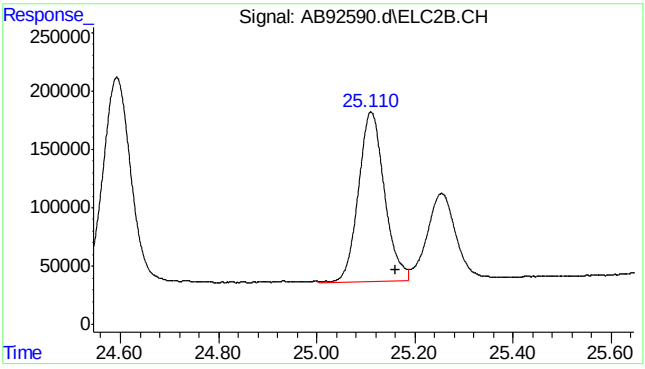



```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response:   5353469
      Conc:   5.04 ppb m
```

7.4.7

7

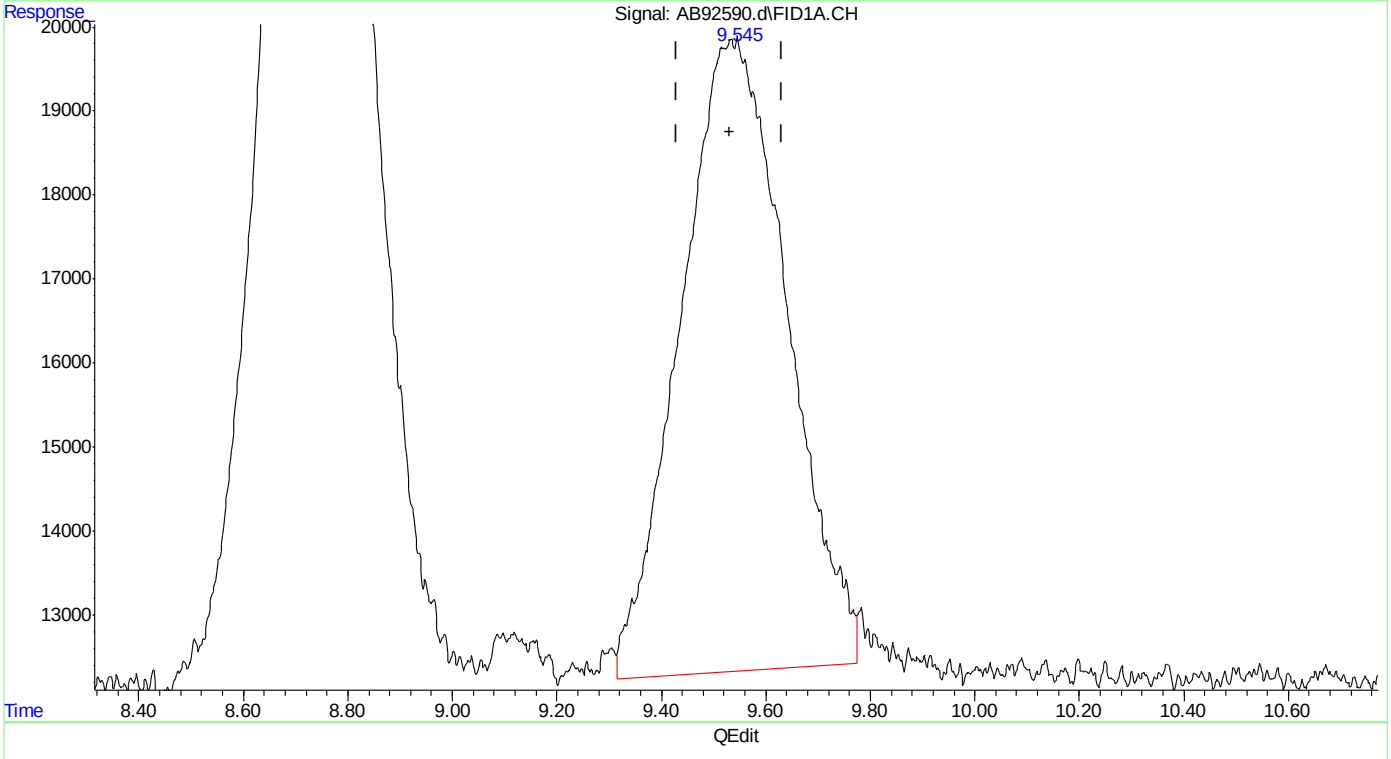
SGS ACCUTEST MC45538

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 4.876 ppb
response 1070624

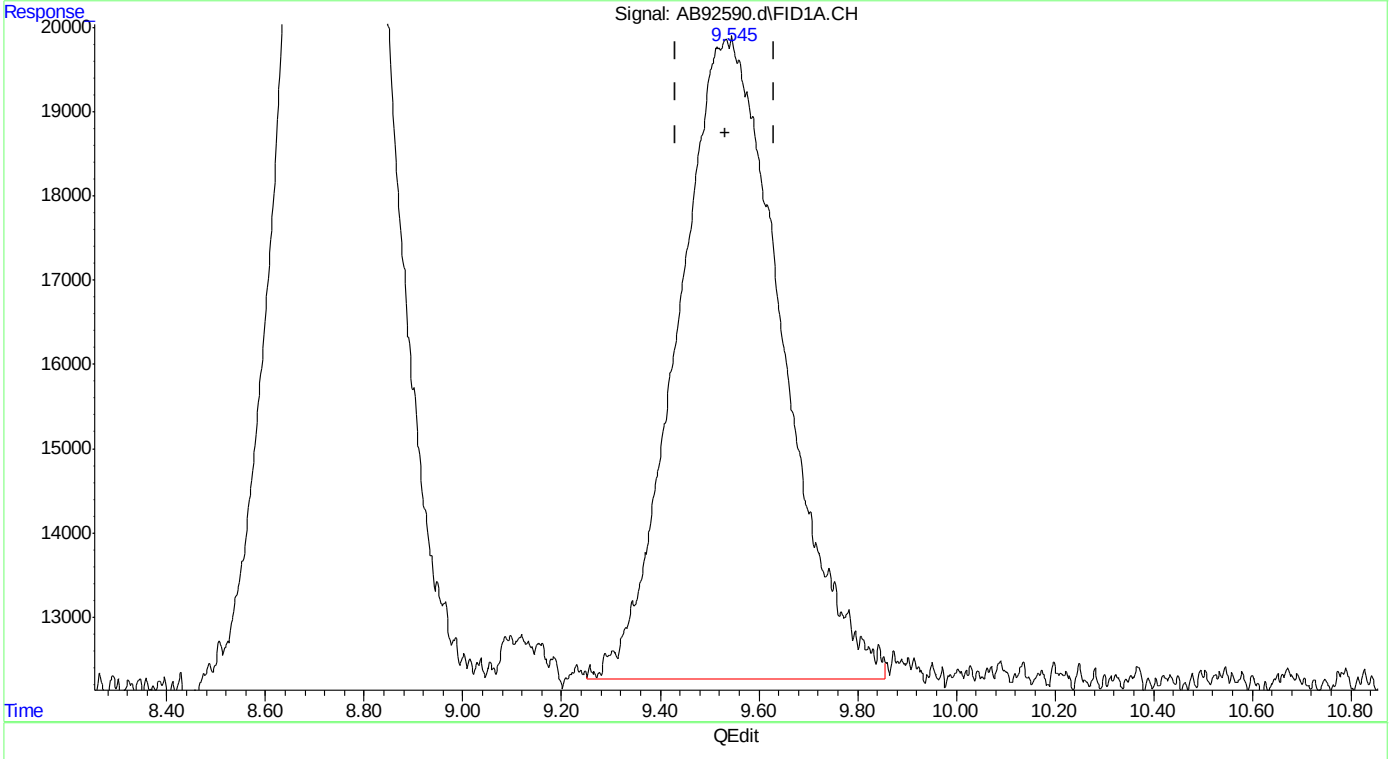
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:41:25 2016 Page: 1

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 :



(3) mtbe
9.545min 5.086 ppb m
response 1116791

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:41:34 2016 Page: 1

SGS ACCUTEST MC45538

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

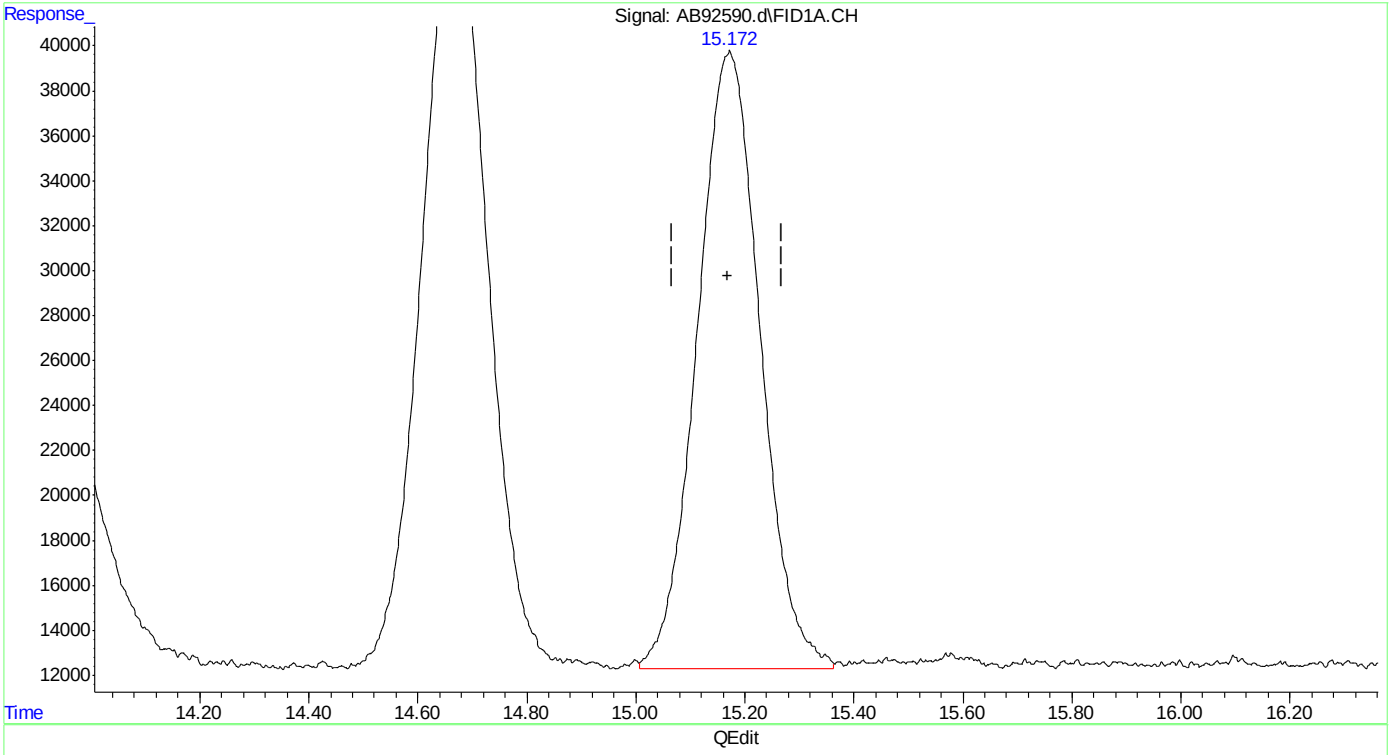
(+) = Expected Retention Time

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

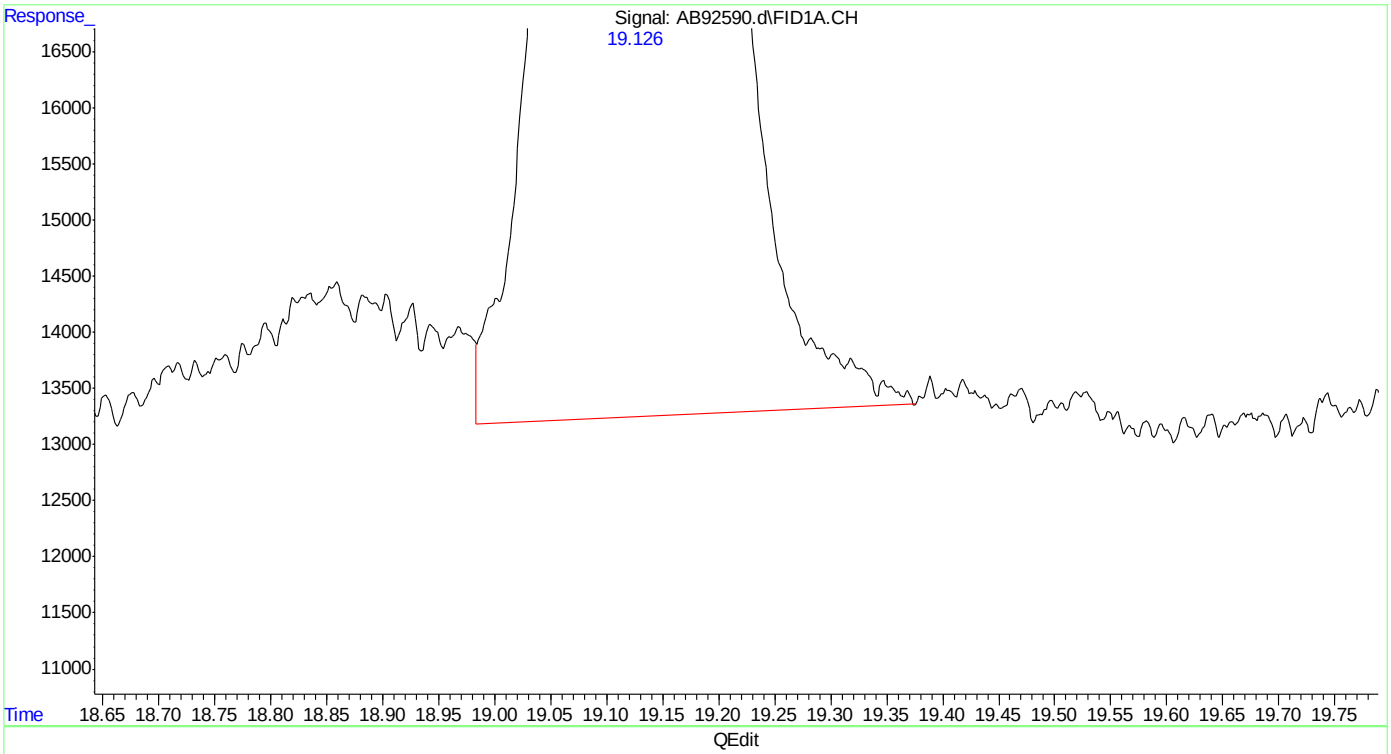
SGS ACCUTEST MC45538

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

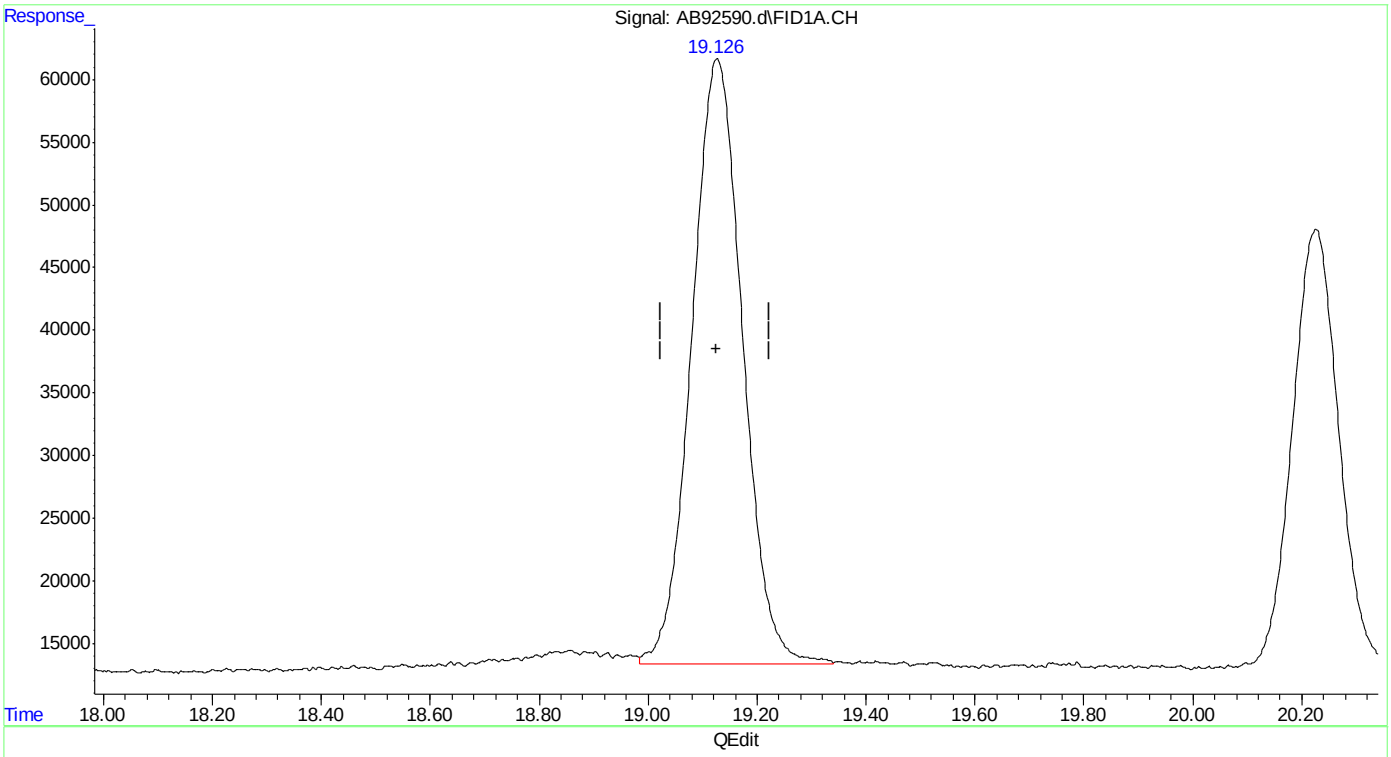
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:42:13 2016

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

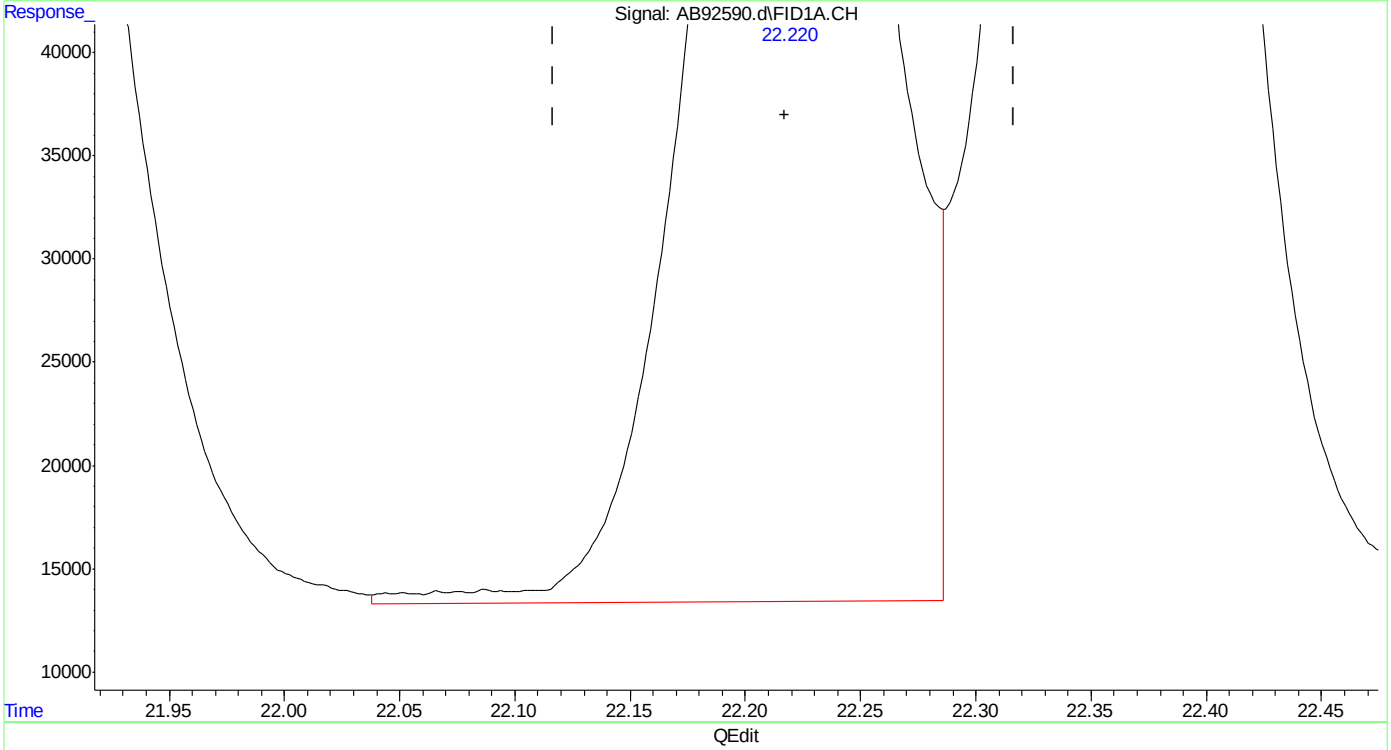
SGS ACCUTEST MC45538

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

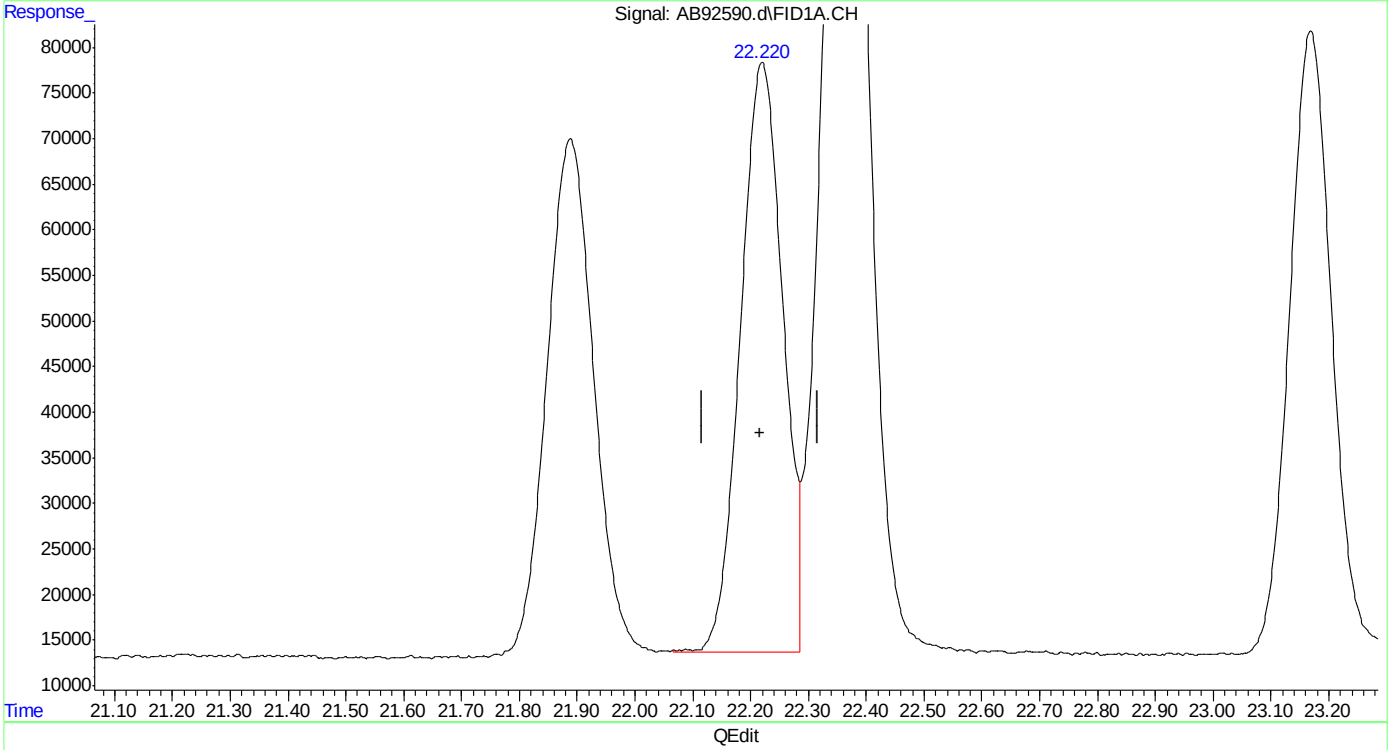
(+) = Expected Retention Time

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

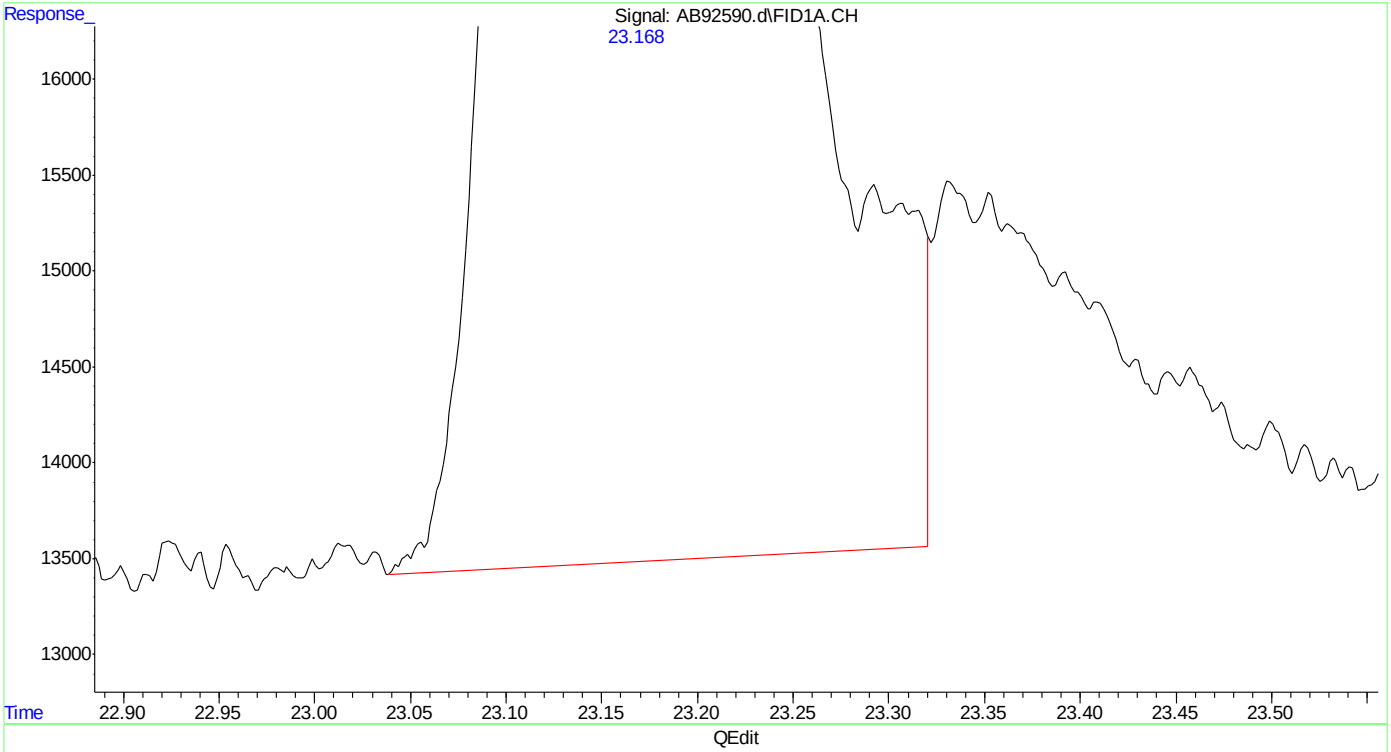
SGS ACCUTEST MC45538

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

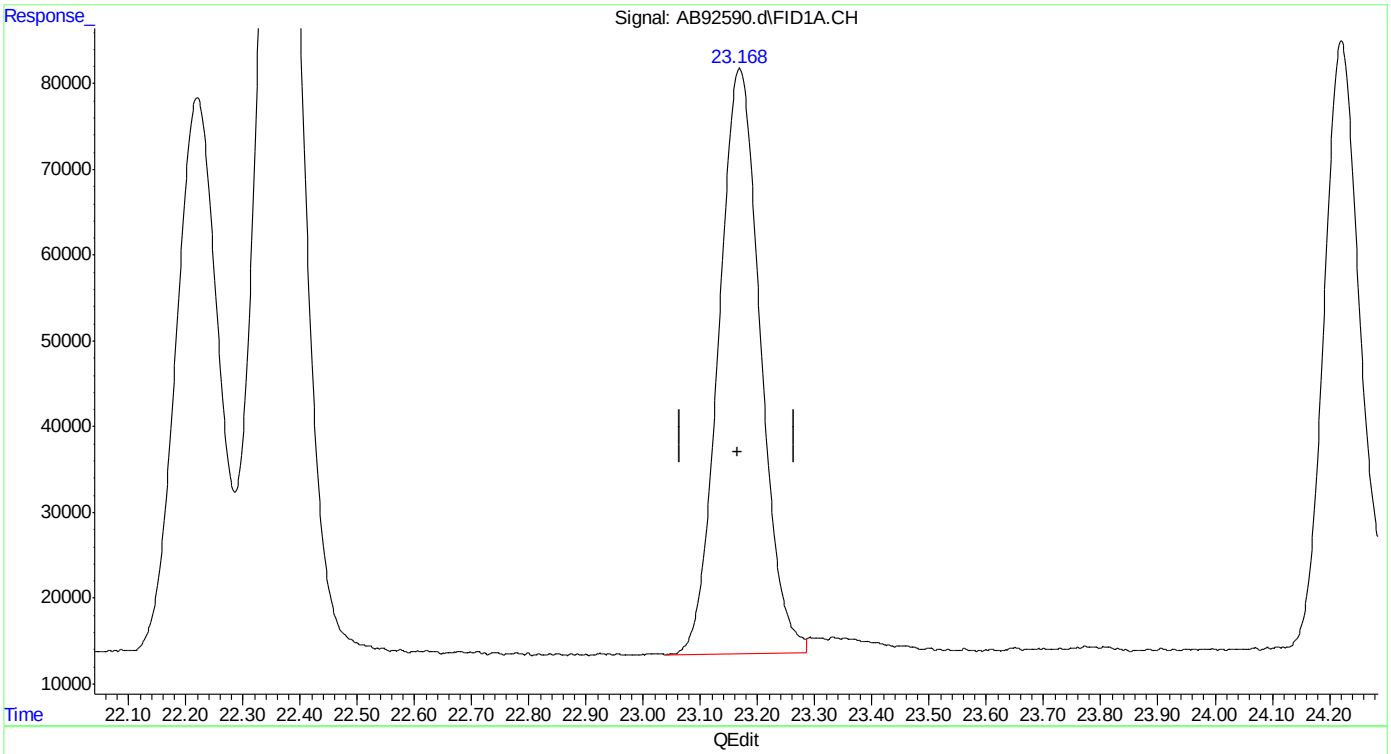
(+) = Expected Retention Time

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
ab160112vphmaster.M Tue Jan 12 12:43:45 2016

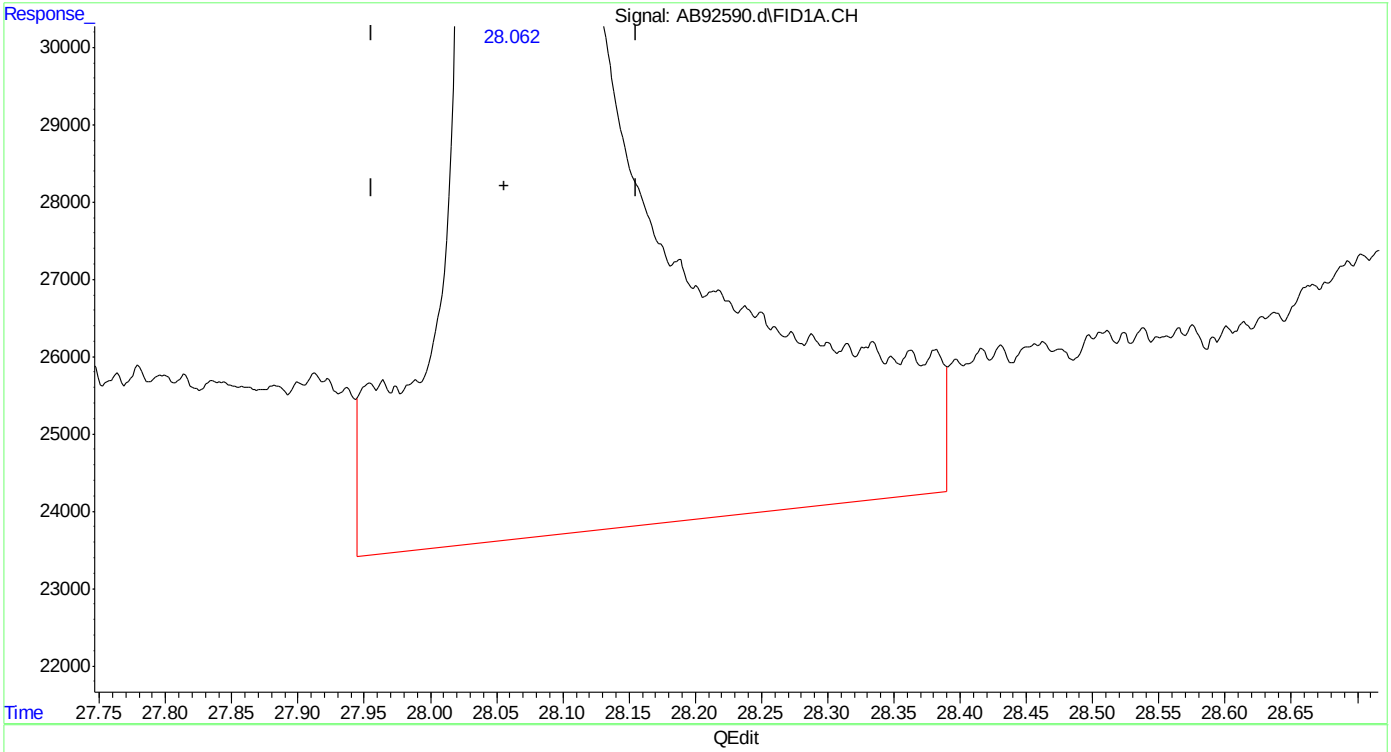
SGS ACCUTEST MC45538

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

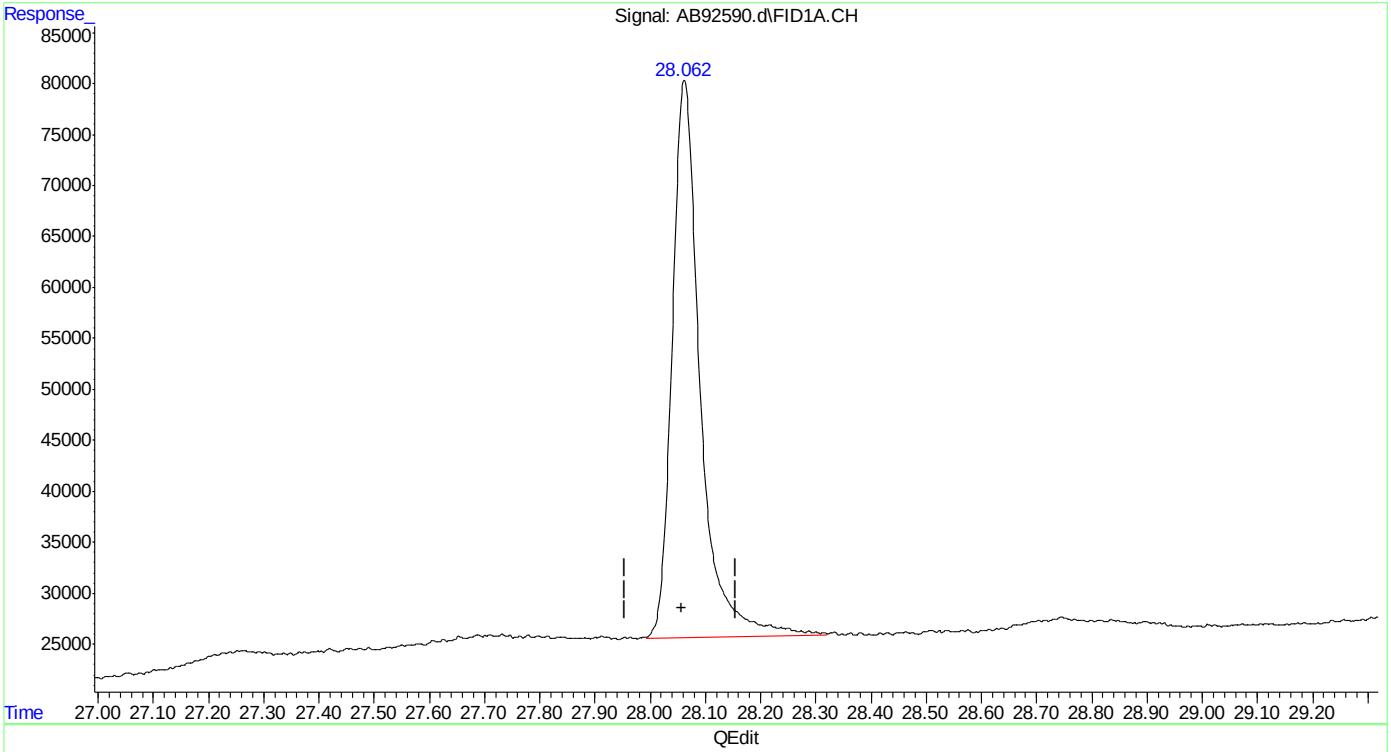
(+) = Expected Retention Time

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

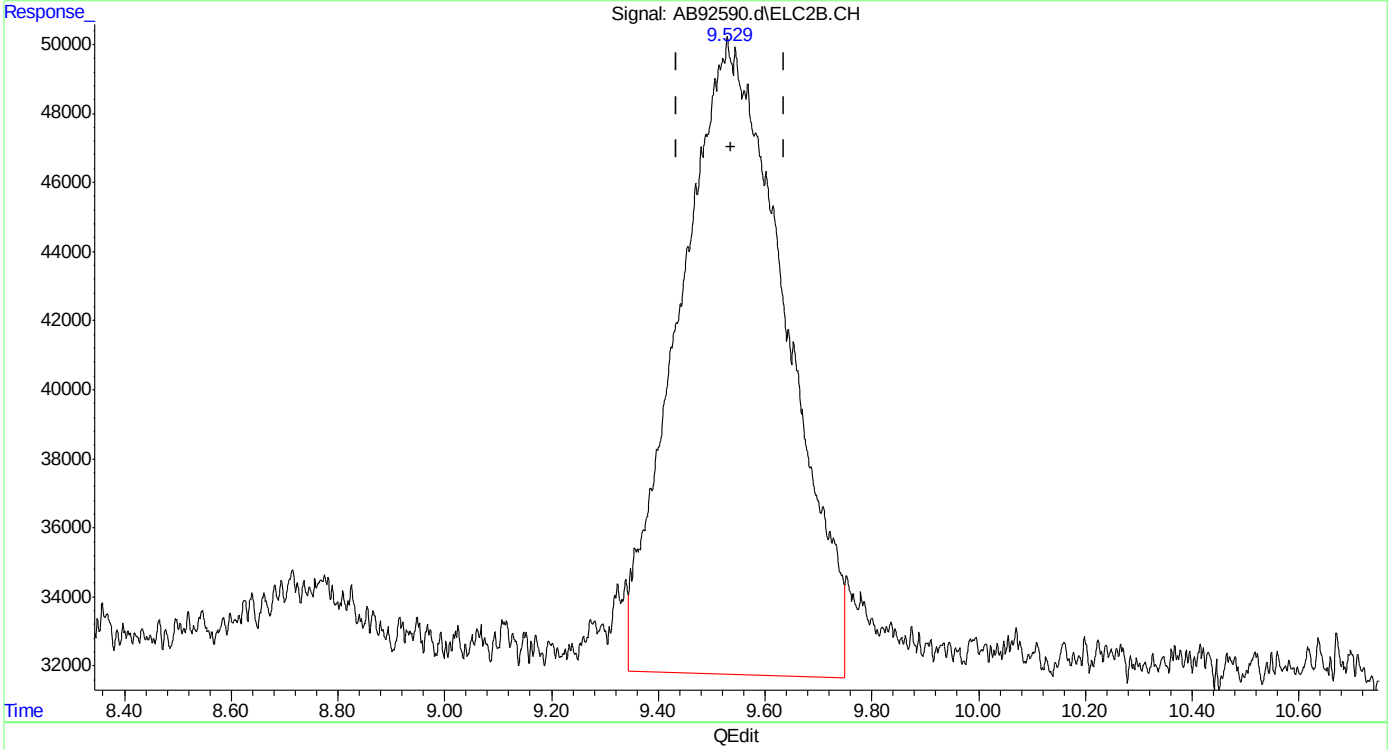
SGS ACCUTEST MC45538

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

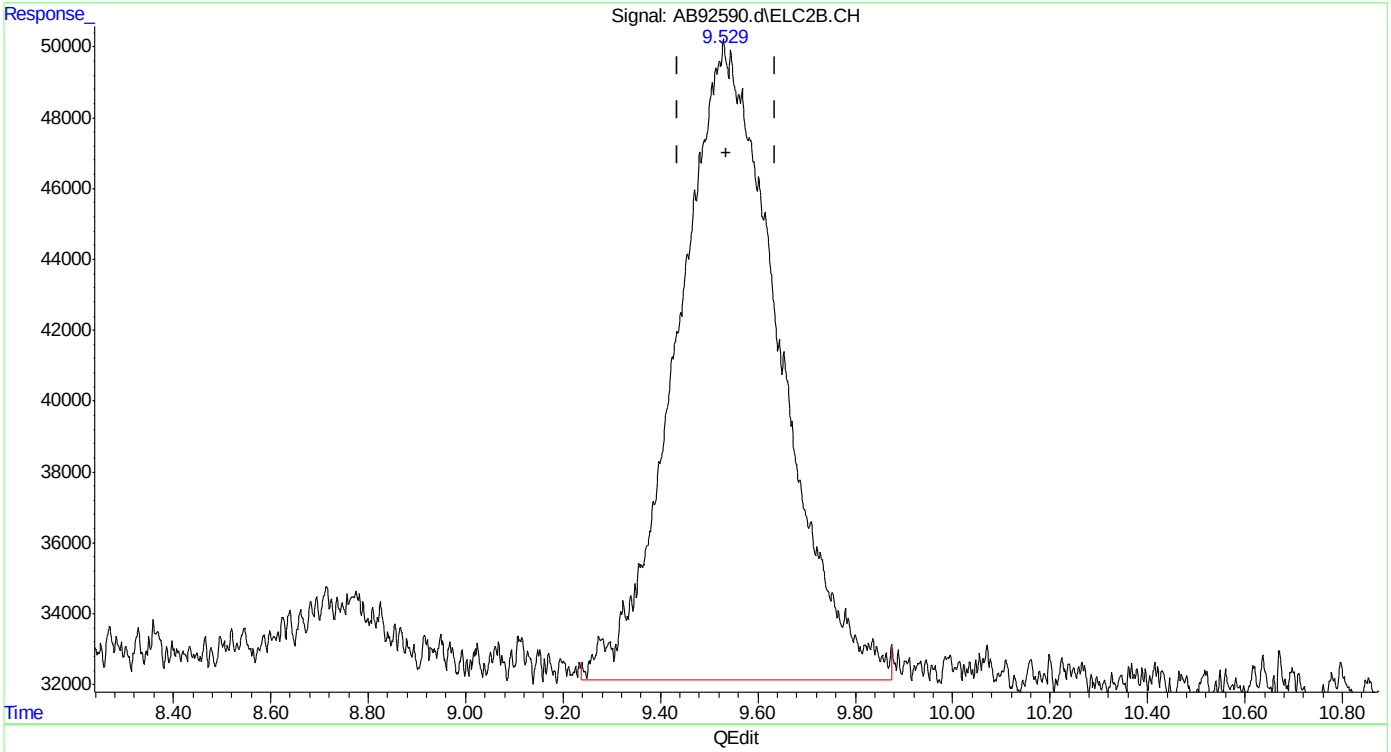
(+) = Expected Retention Time

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

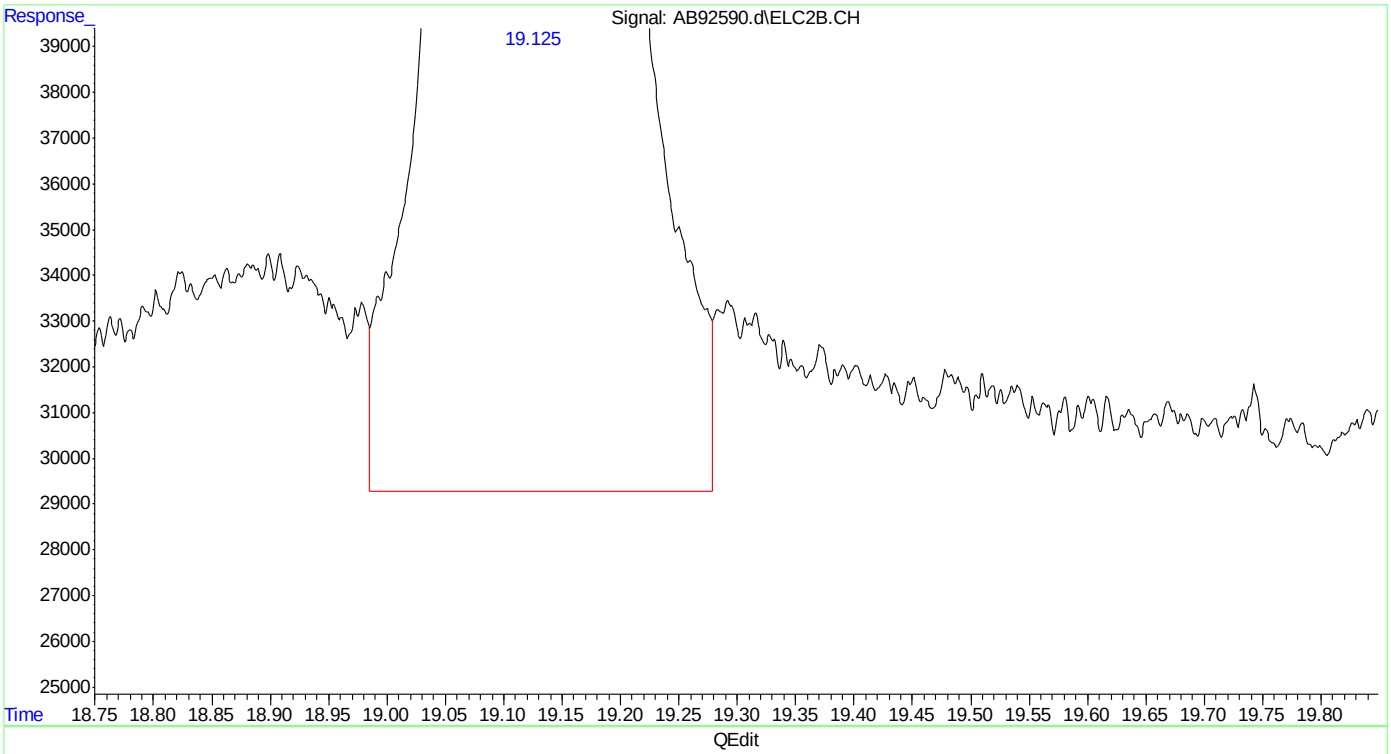
SGS ACCUTEST MC45538

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

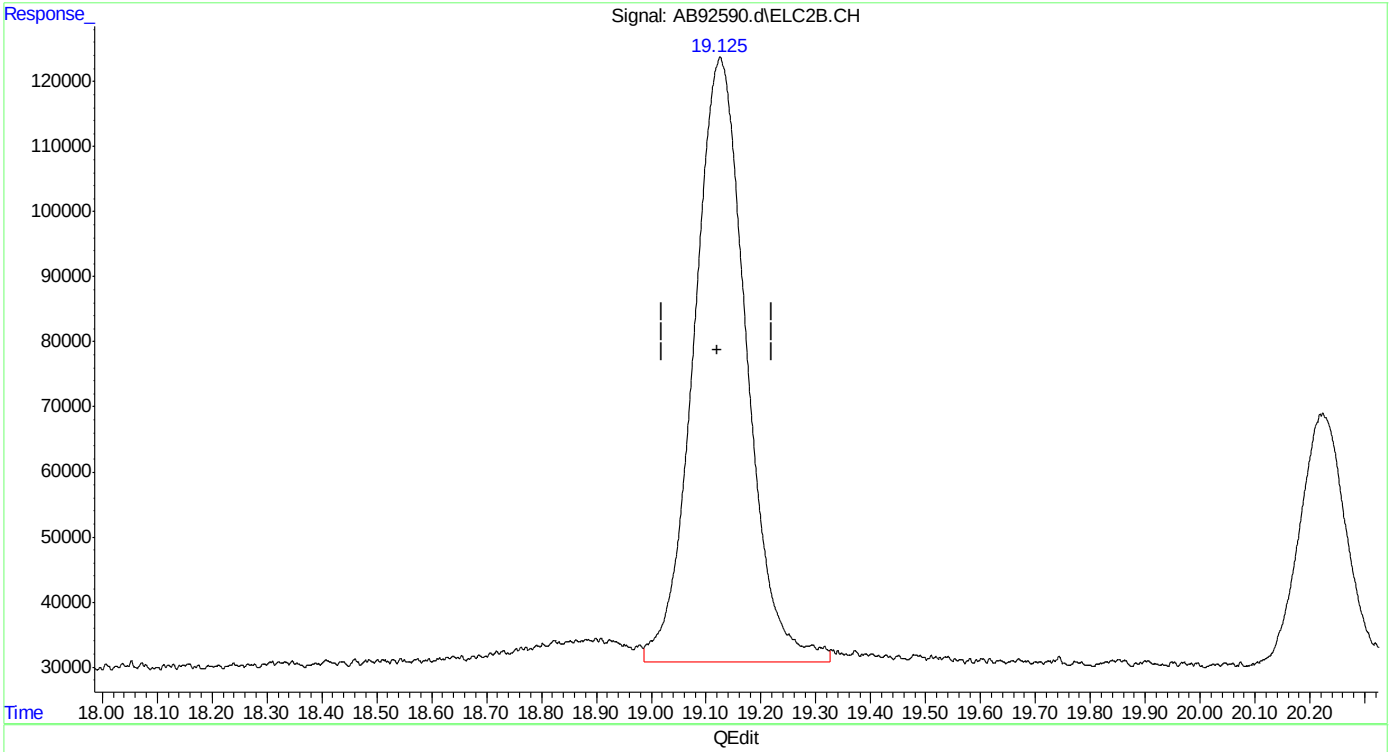
SGS ACCUTEST MC45538

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 MC45538

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

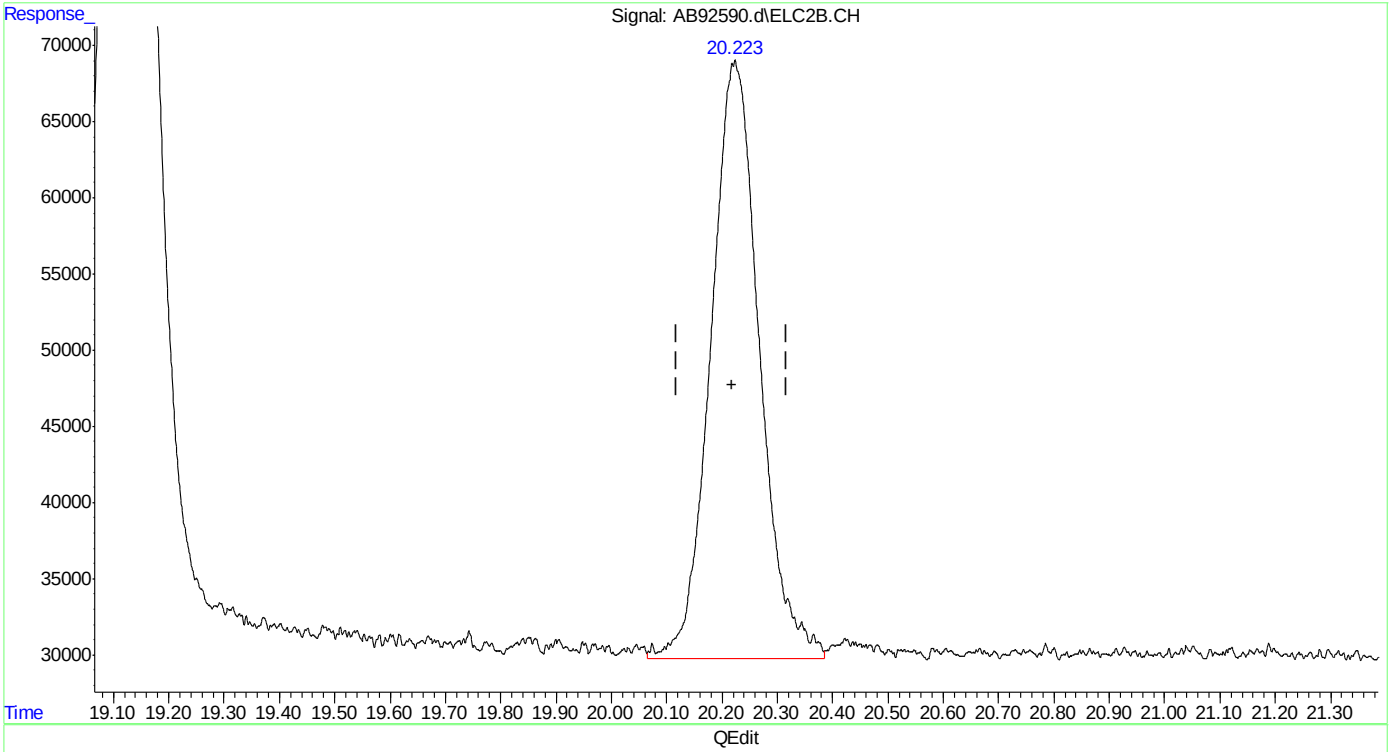
SGS ACCUTEST MC45538

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

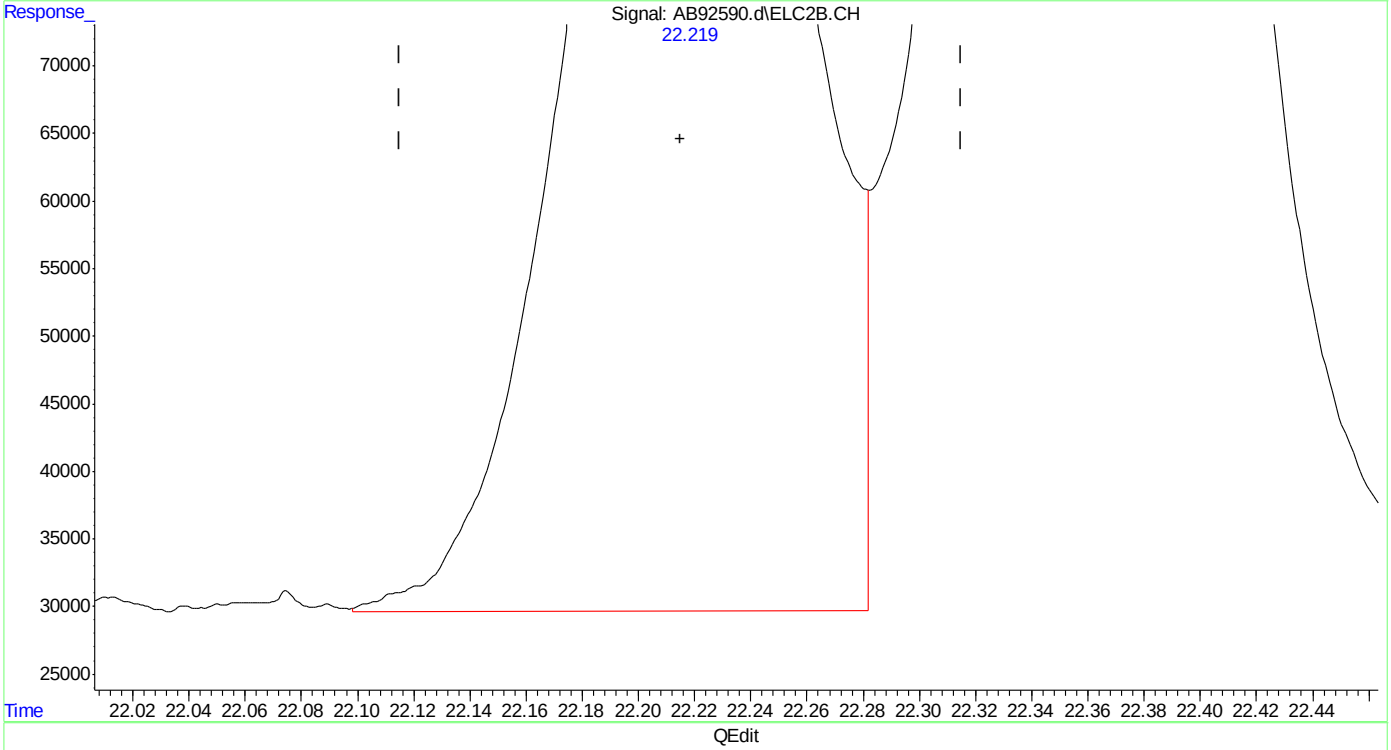
SGS ACCUTEST MC45538

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

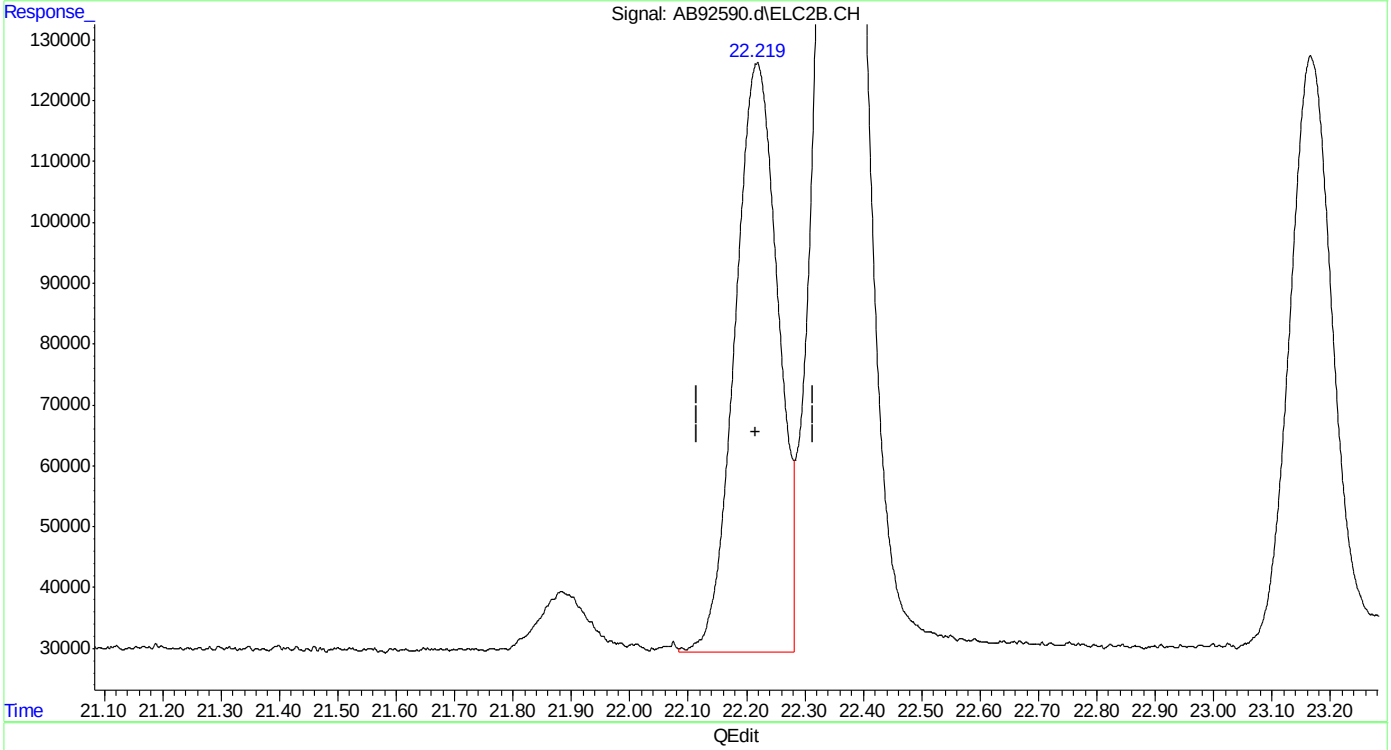
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:46:00 2016

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

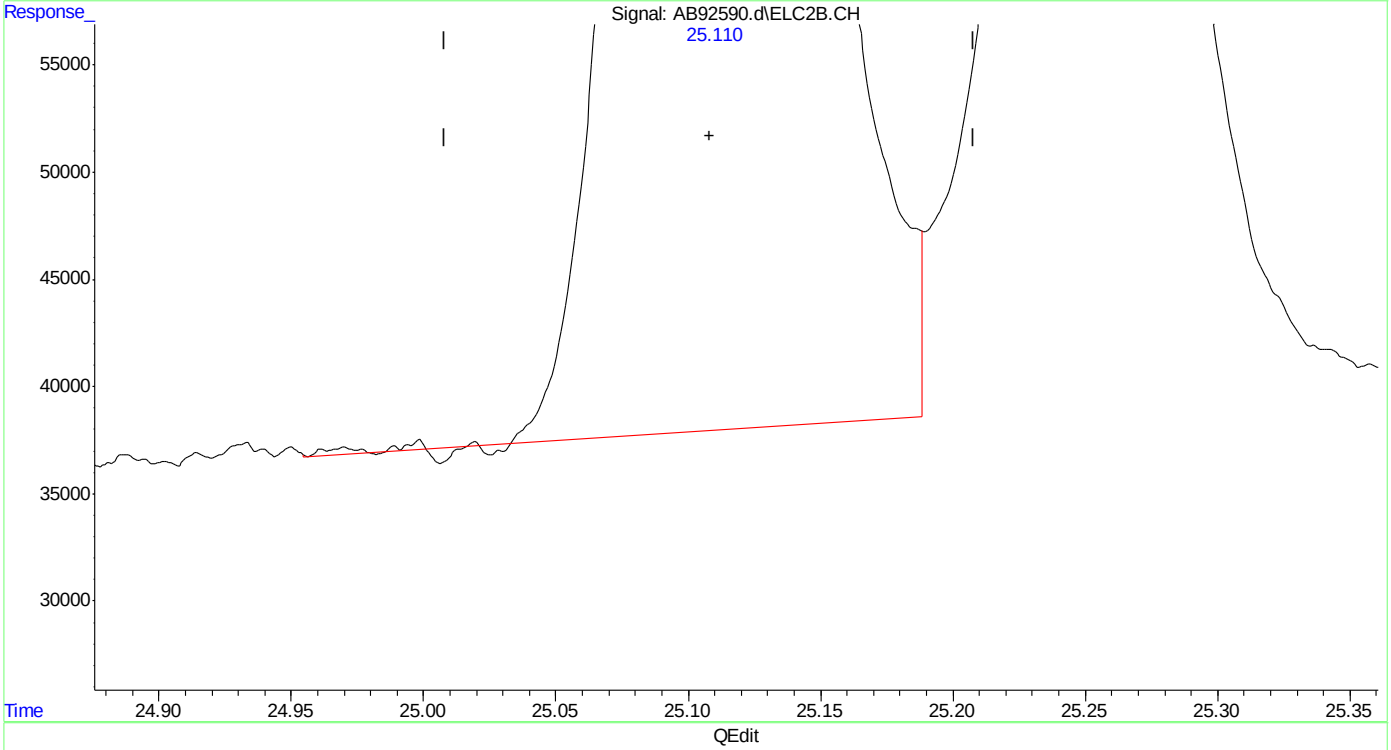
(+) = Expected Retention Time

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

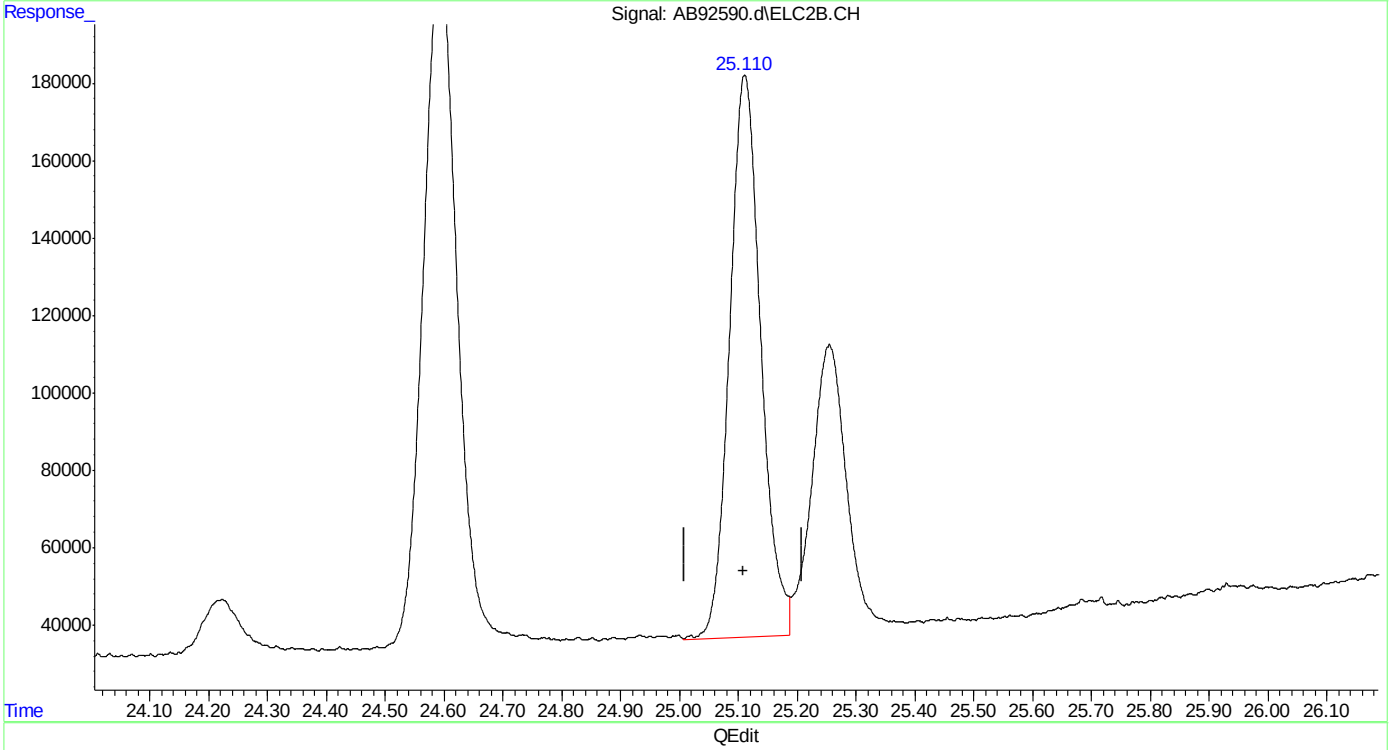
SGS ACCUTEST MC45538

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

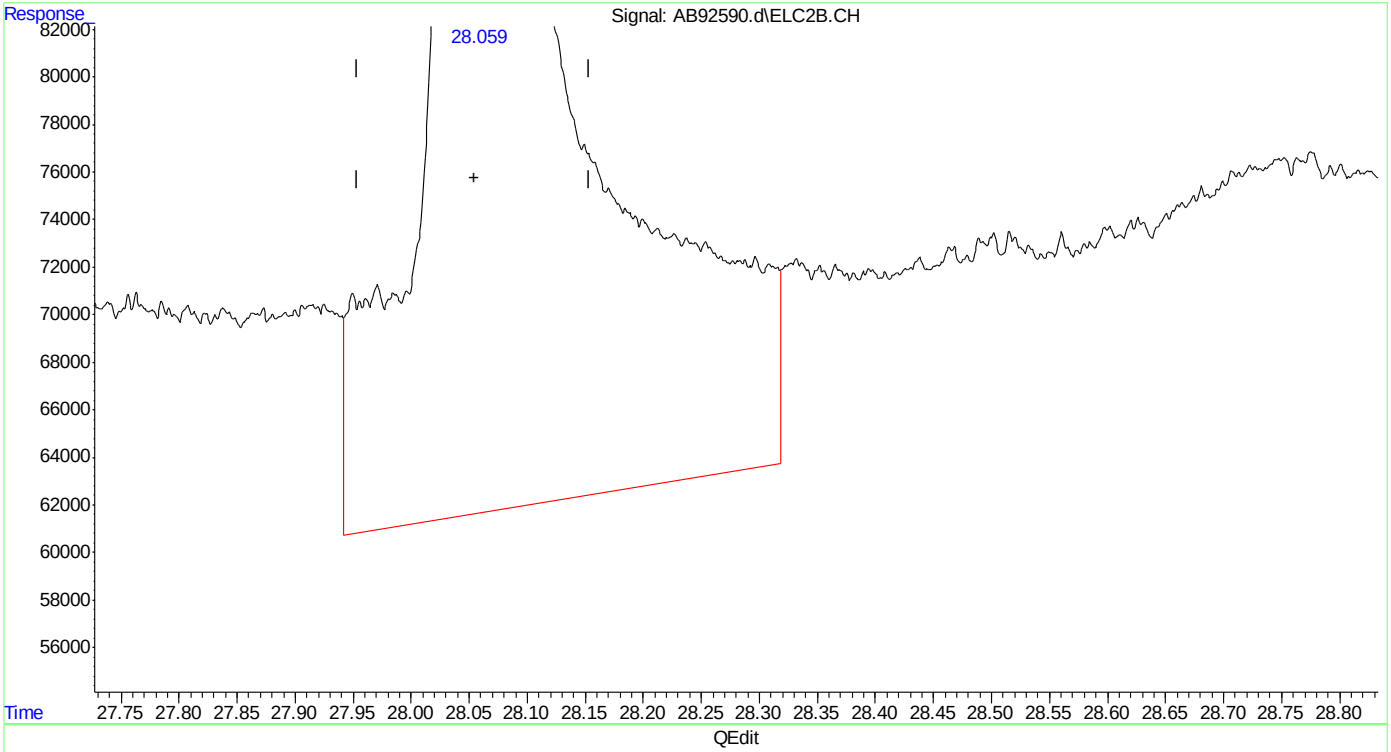
(+) = Expected Retention Time

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
ab160112vphmaster.M Tue Jan 12 12:46:35 2016

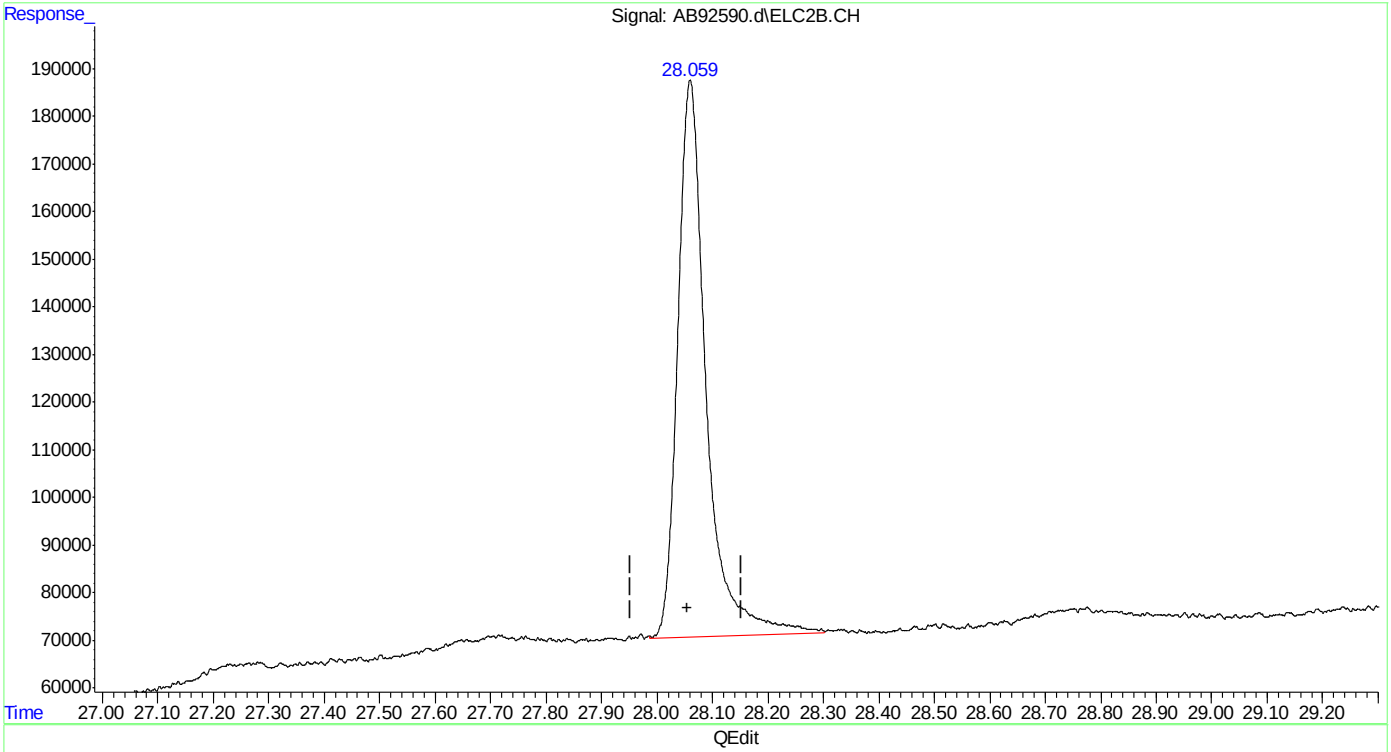
SGS ACCUTEST MC45538

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.

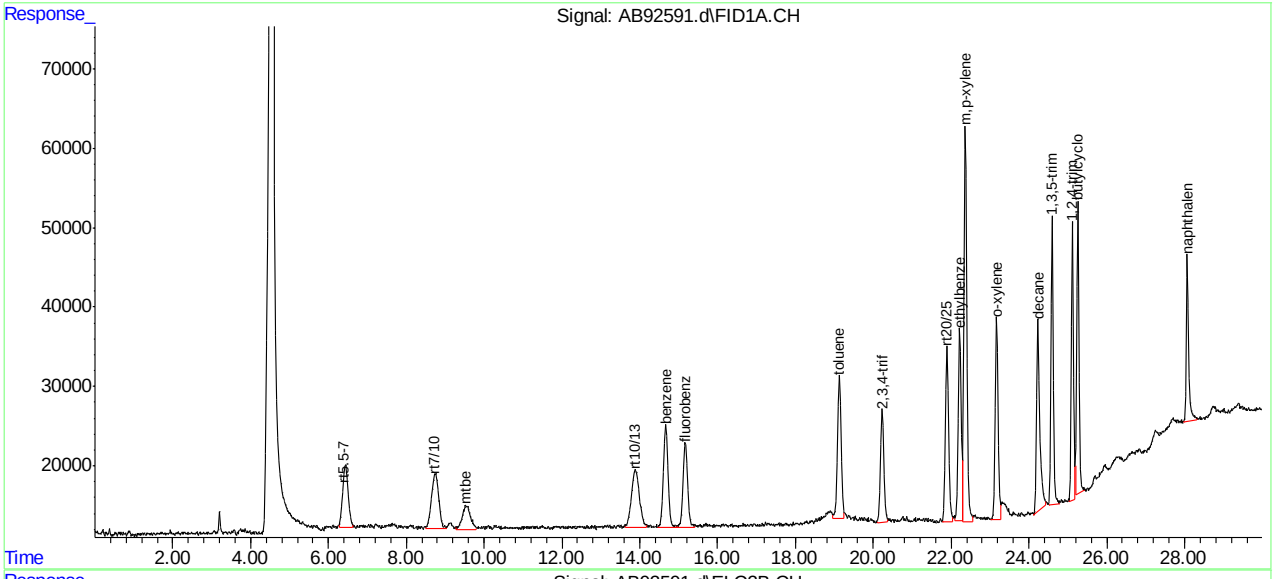
SGS ACCUTEST MC45538

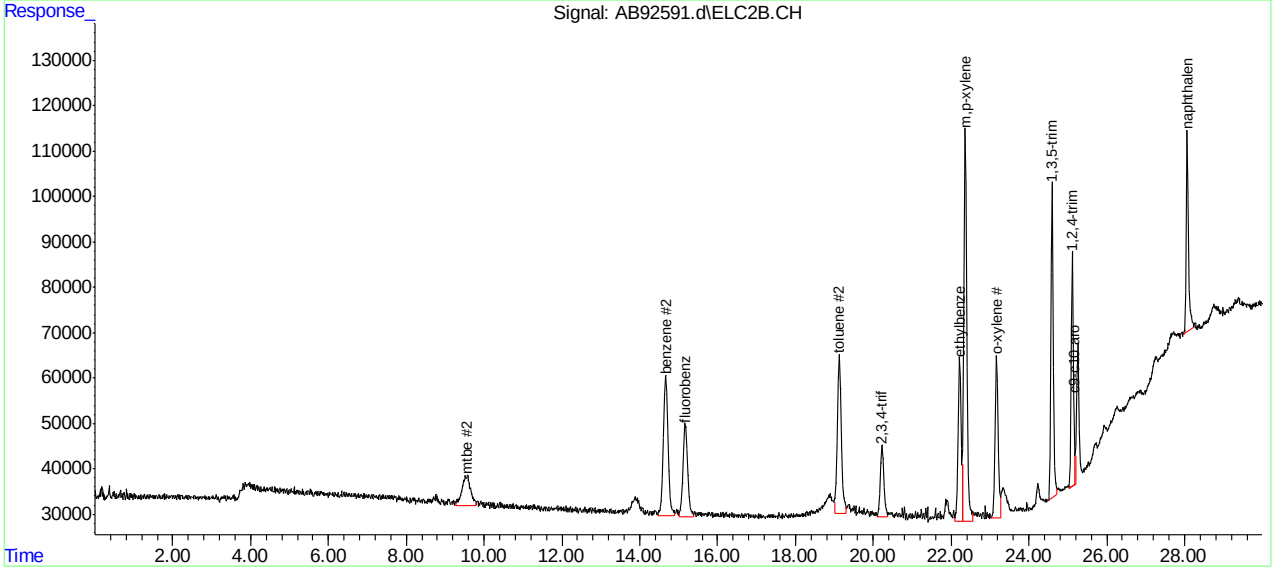
Quantitation Report (QT Reviewed)

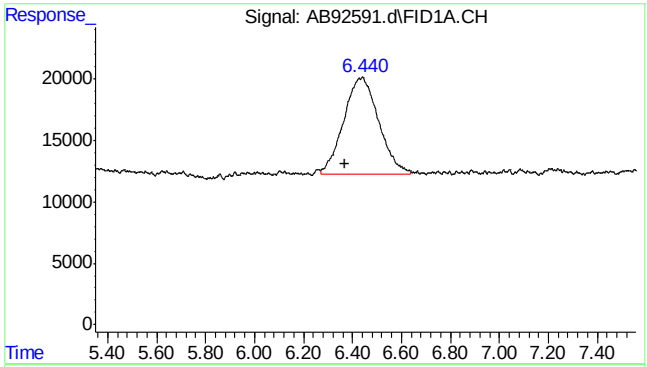
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

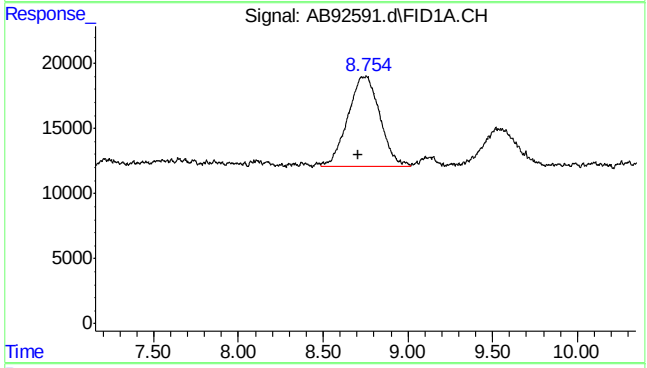






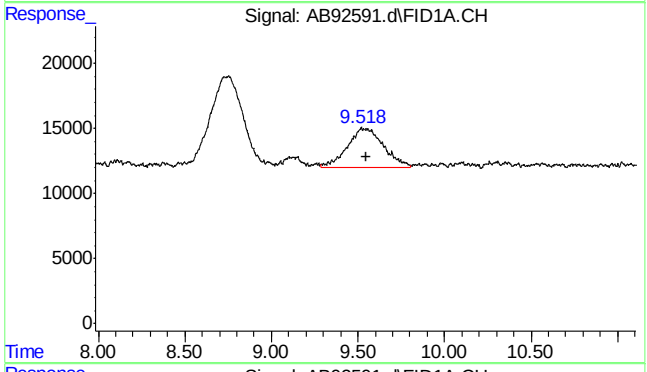
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 782177
Conc: 2.11 ppb m



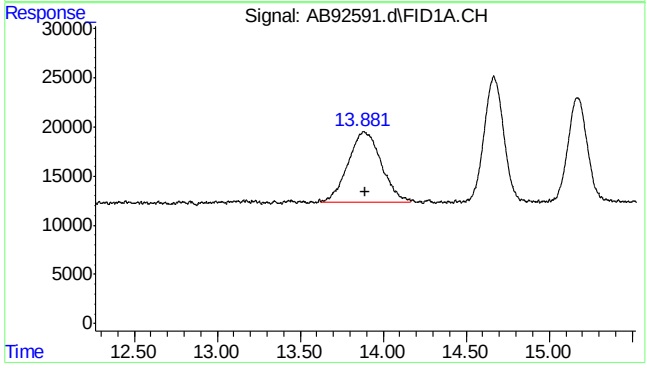
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 895663
Conc: 2.10 ppb m



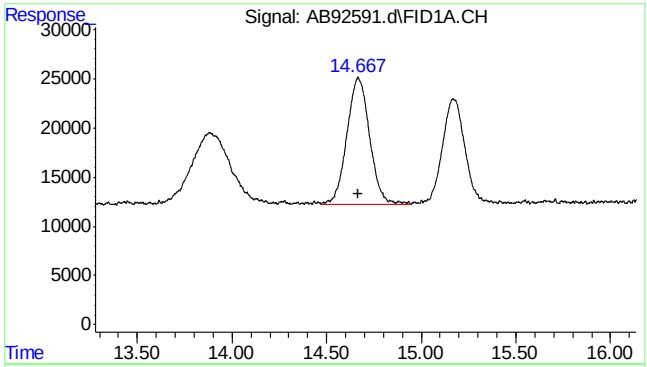
#3 mtbe

R.T.: 9.518 min
Delta R.T.: -0.027 min
Response: 440739
Conc: 2.00 ppb m



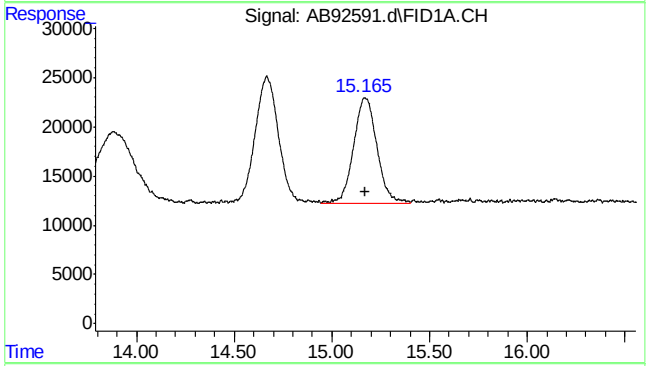
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 1010297
Conc: 2.08 ppb m



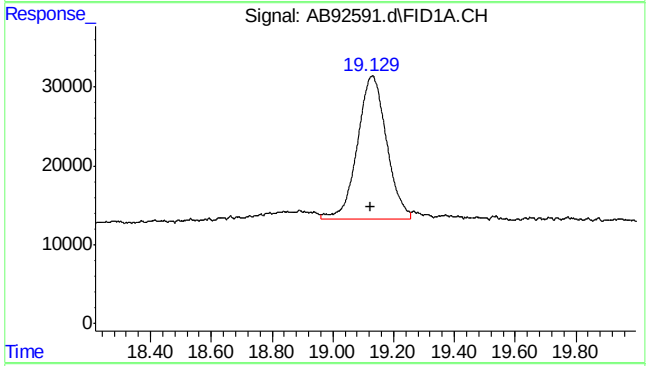
#5 benzene

```
      R.T.:   14.667 min
Delta R.T.:    0.000 min
  Response:   1091864
      Conc:   1.96 ppb m
```



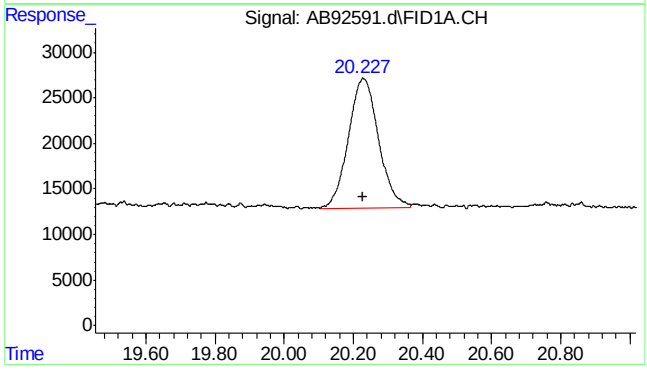
#6 fluorobenzene

```
      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
```

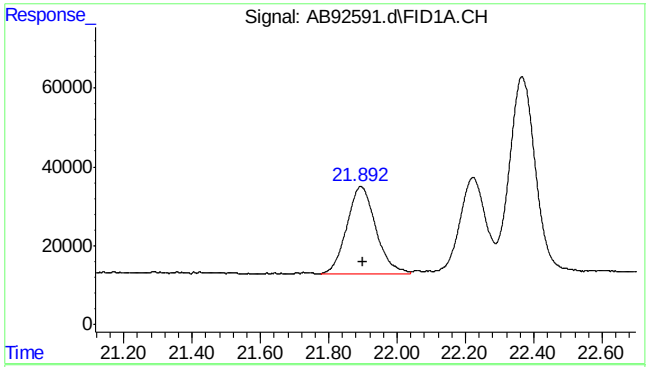


#9 2,3,4-trifluorotoluene

```
      R.T.:   20.228 min
Delta R.T.:    0.002 min
  Response:    858302
      Conc:   2.08 ppb
```

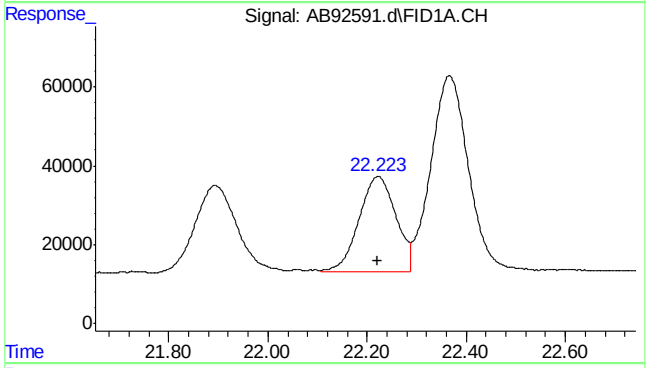
7.4.8

7



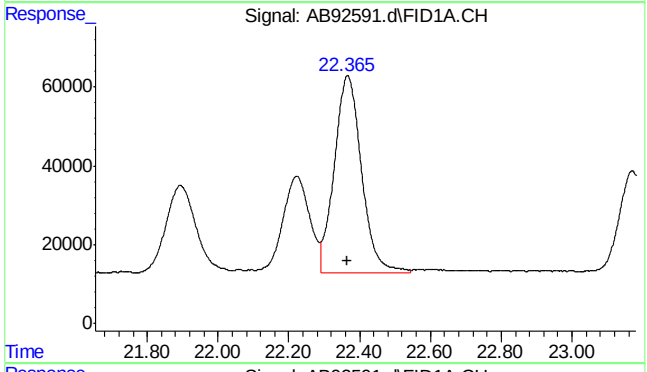
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 1295530
Conc: 2.11 ppb m



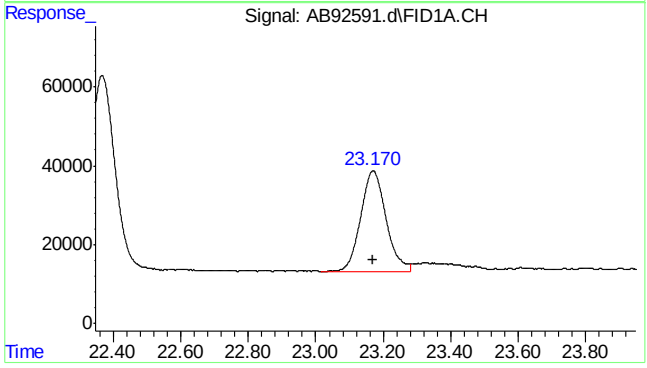
#13 ethylbenzene

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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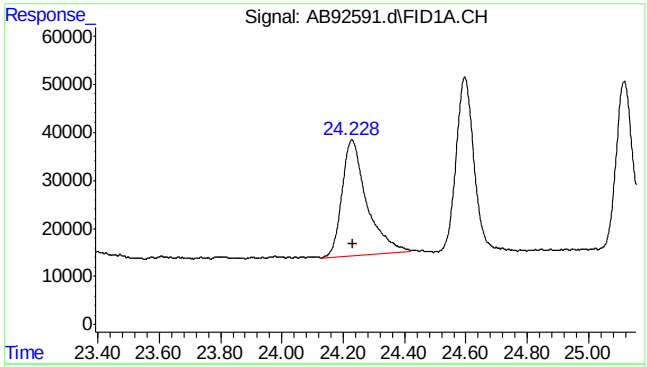
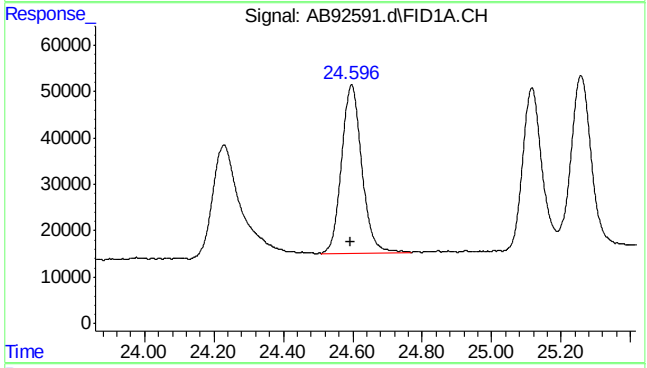


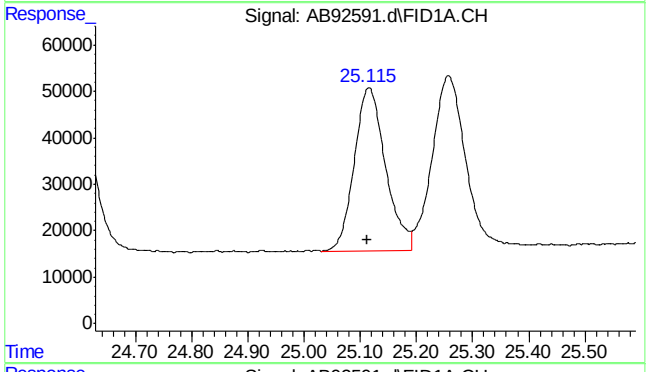
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 1363143
Conc: 2.17 ppb m



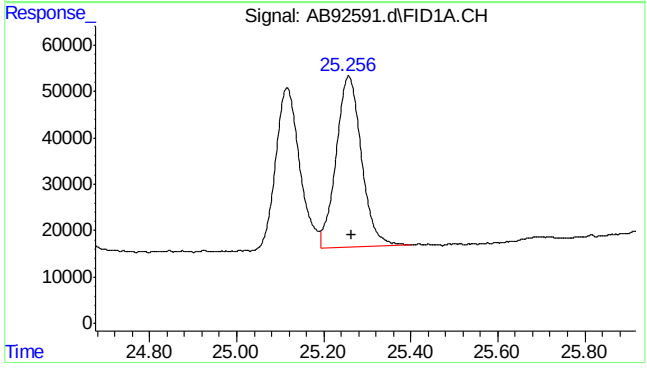
#17 1,3,5-trimethylbenzene

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

7.4.8

7

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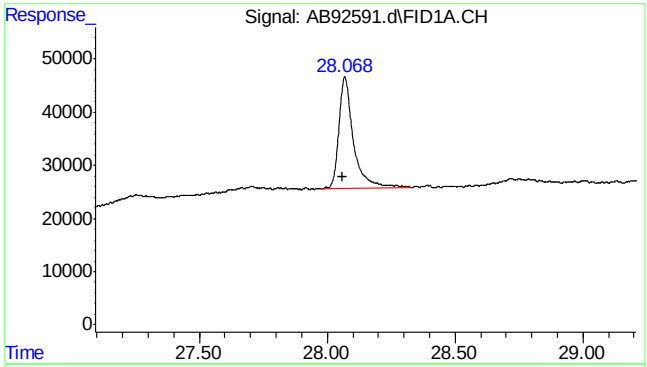
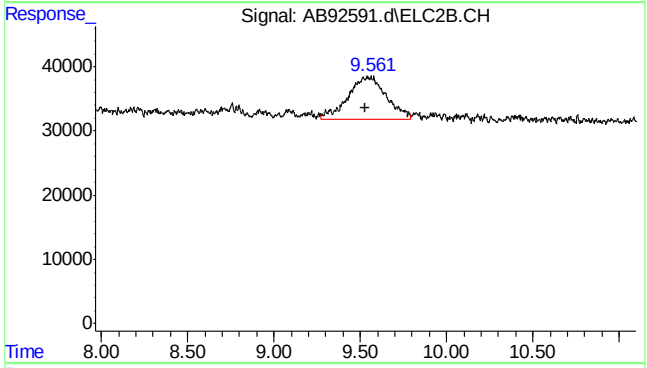


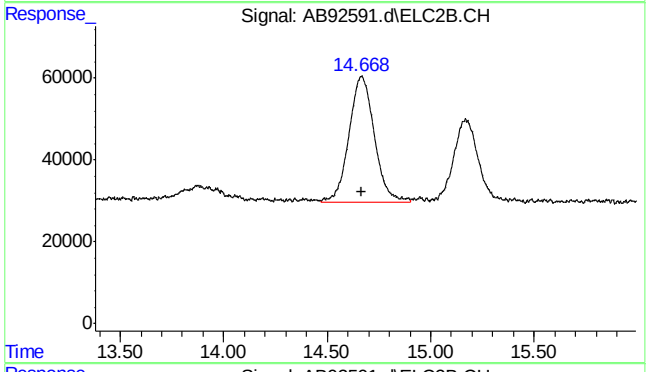
#20 naphthalene

R.T.: 28.068 min
Delta R.T.: 0.006 min
Response: 834686
Conc: 2.23 ppb m



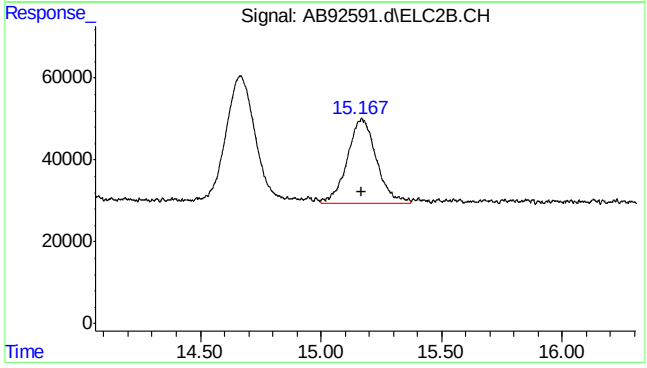
#23 mtbe #2

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



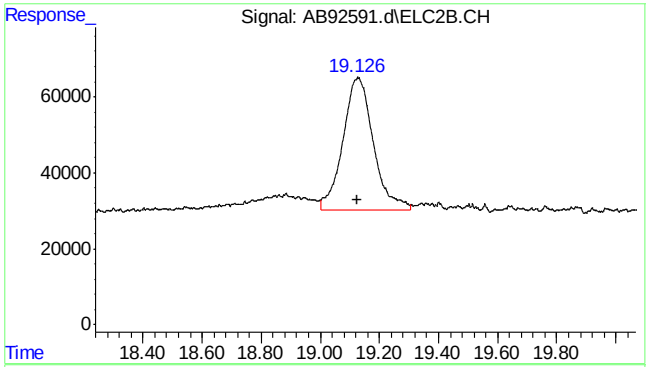
#25 fluorobenzene #2

R.T.: 15.167 min
Delta R.T.: -0.004 min
Response: 1721246
Conc: 1.97 ppb m

7.4.8

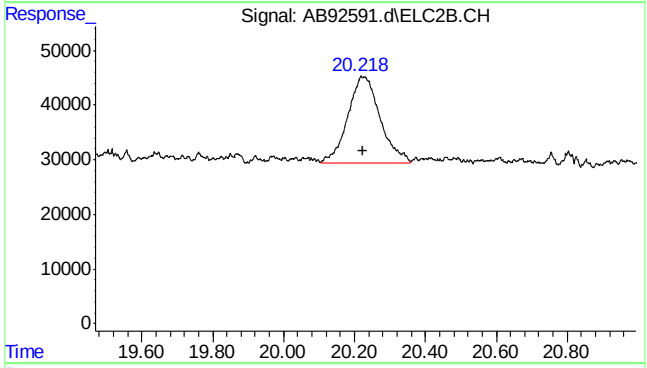
7

SGS ACCUTEST MC45538



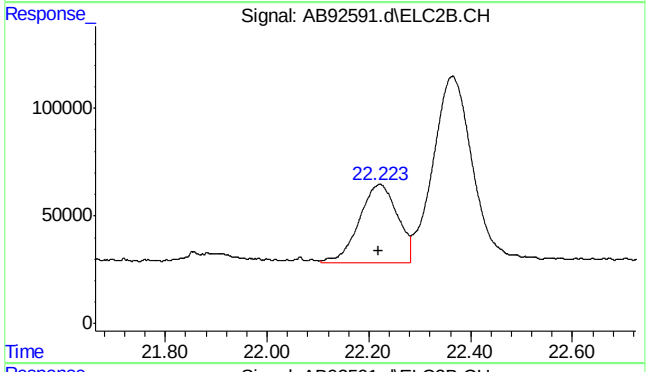
#26 toluene #2

R.T.: 19.126 min
Delta R.T.: 0.000 min
Response: 2524690
Conc: 2.07 ppb m



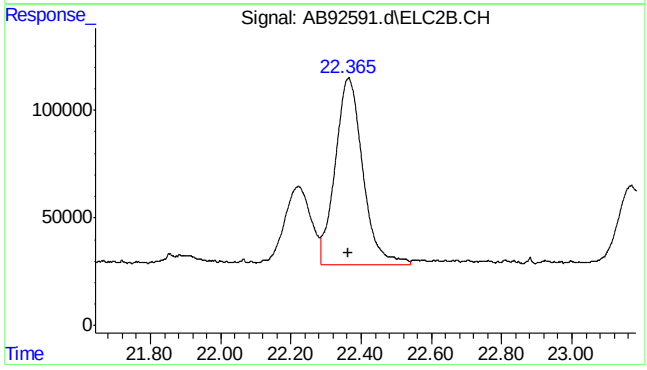
#27 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: -0.005 min
Response: 995138
Conc: 2.10 ppb m



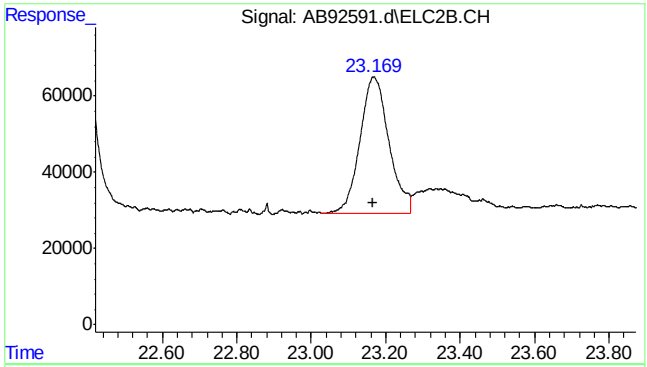
#28 ethylbenzene #2

R.T.: 22.223 min
Delta R.T.: 0.004 min
Response: 1889943
Conc: 1.89 ppb m



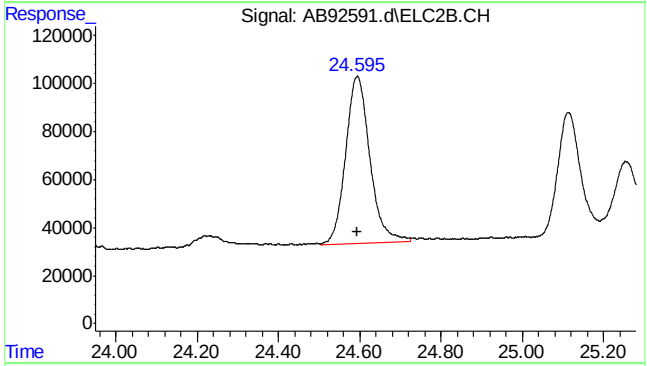
#29 m,p-xylene #2

R.T.: 22.365 min
Delta R.T.: 0.003 min
Response: 4718026
Conc: 3.85 ppb m



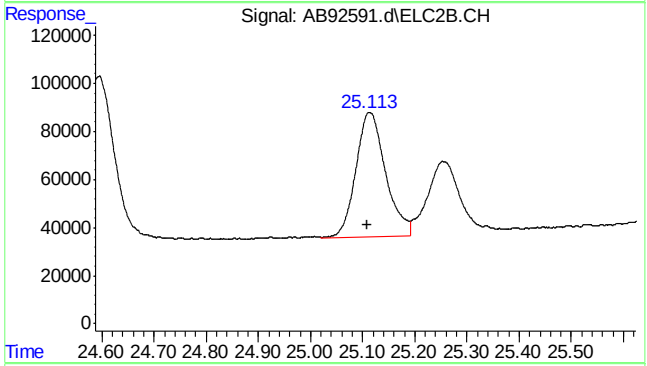
#30 o-xylene #2

R.T.: 23.169 min
Delta R.T.: 0.002 min
Response: 1948764
Conc: 1.93 ppb m



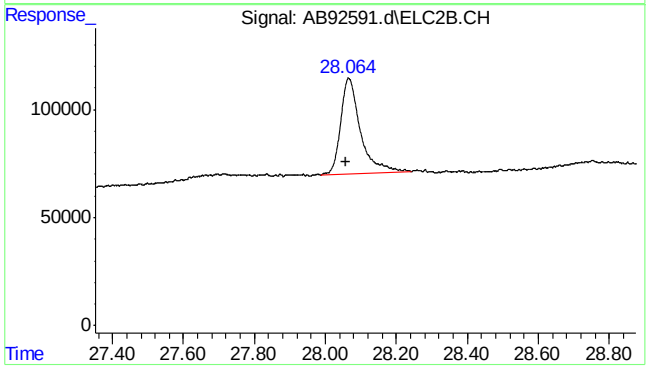
#31 1,3,5-trimethylbenzene #2

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

7.4.8

7

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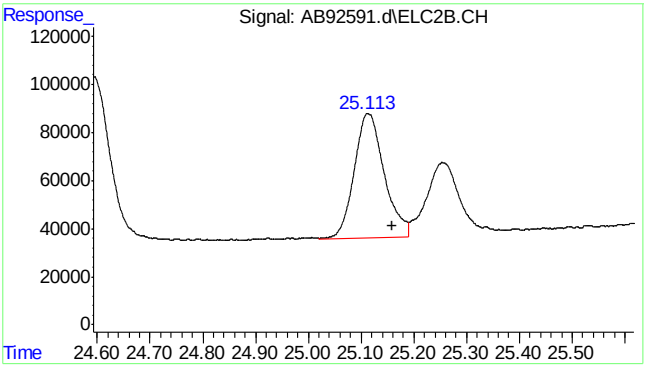



```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response:   2046058
      Conc:   1.92 ppb m
```

7.4.8

7

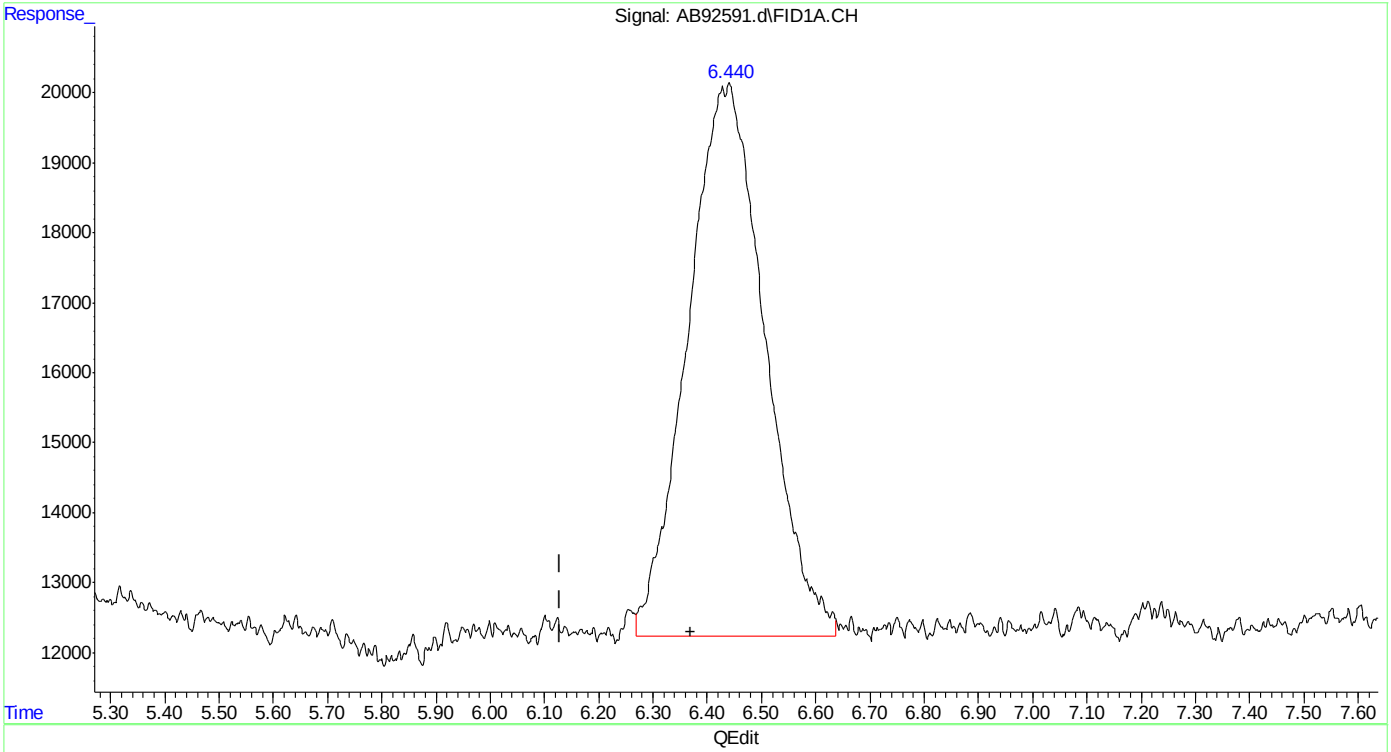
SGS ACCUTEST MC45538

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
ab160112vphmaster.M Tue Jan 12 13:18:37 2016

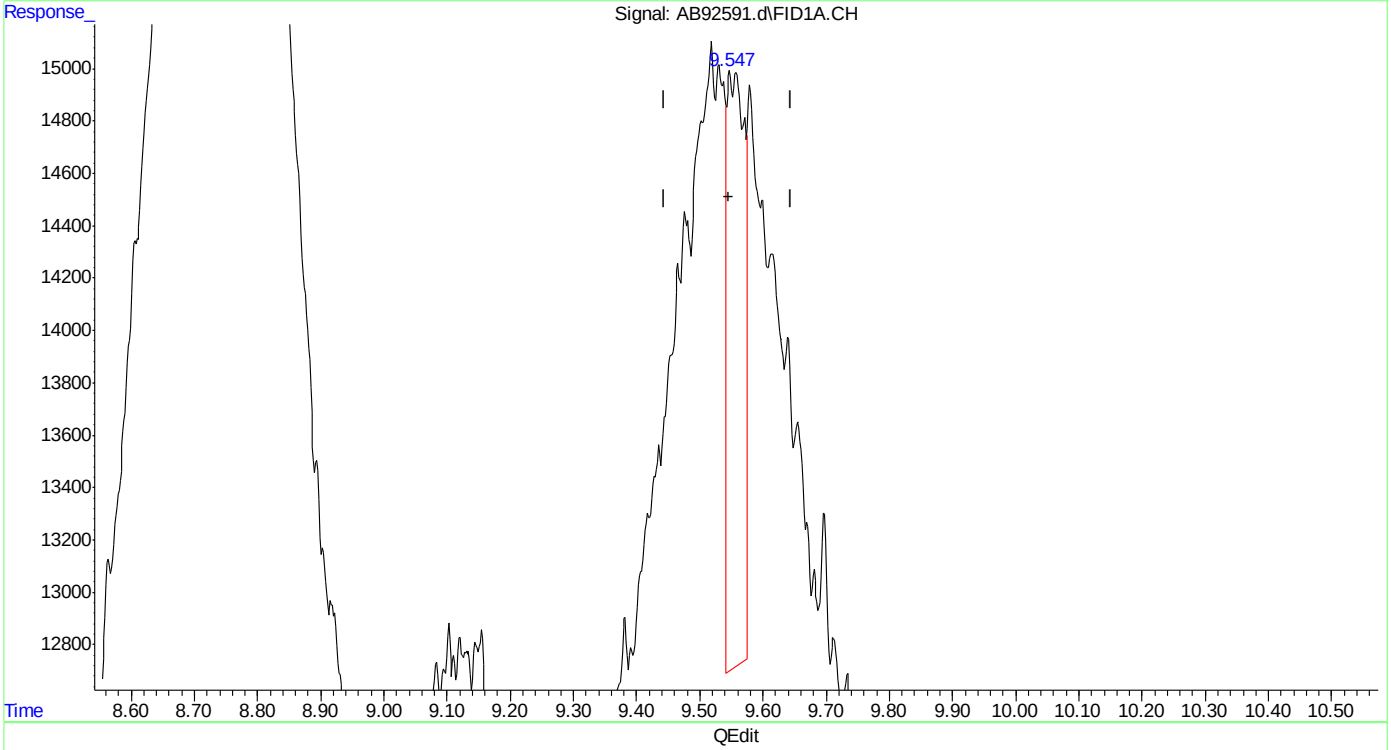
SGS ACCUTEST MC45538

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

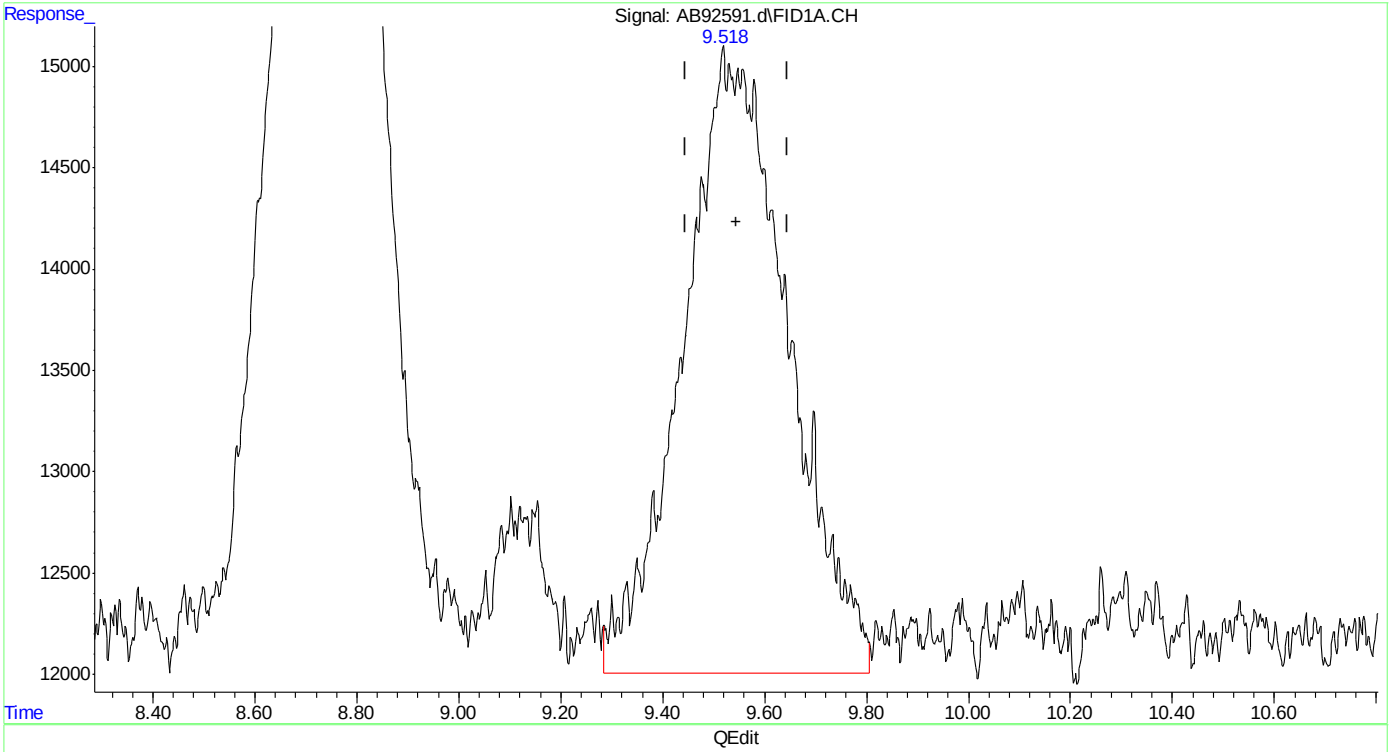
SGS ACCUTEST MC45538

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

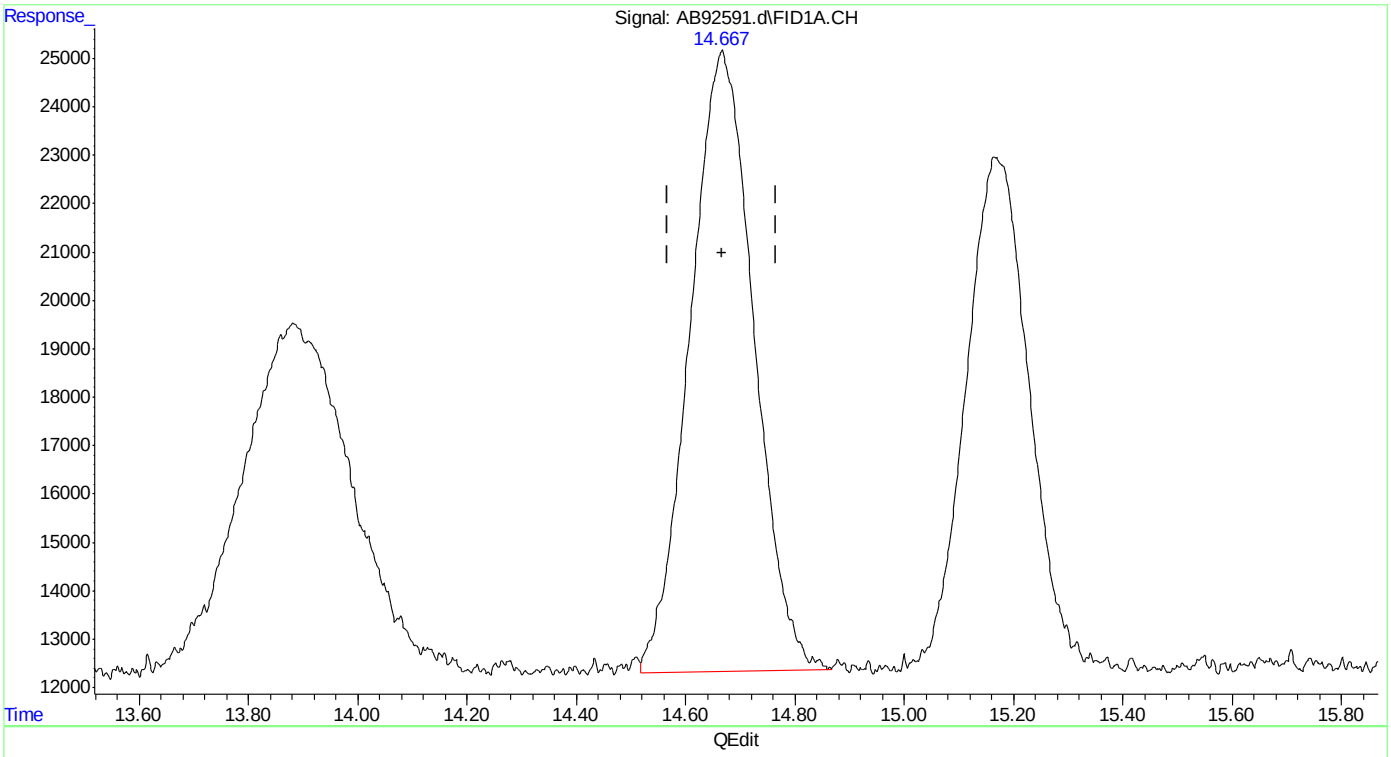
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:19:57 2016

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

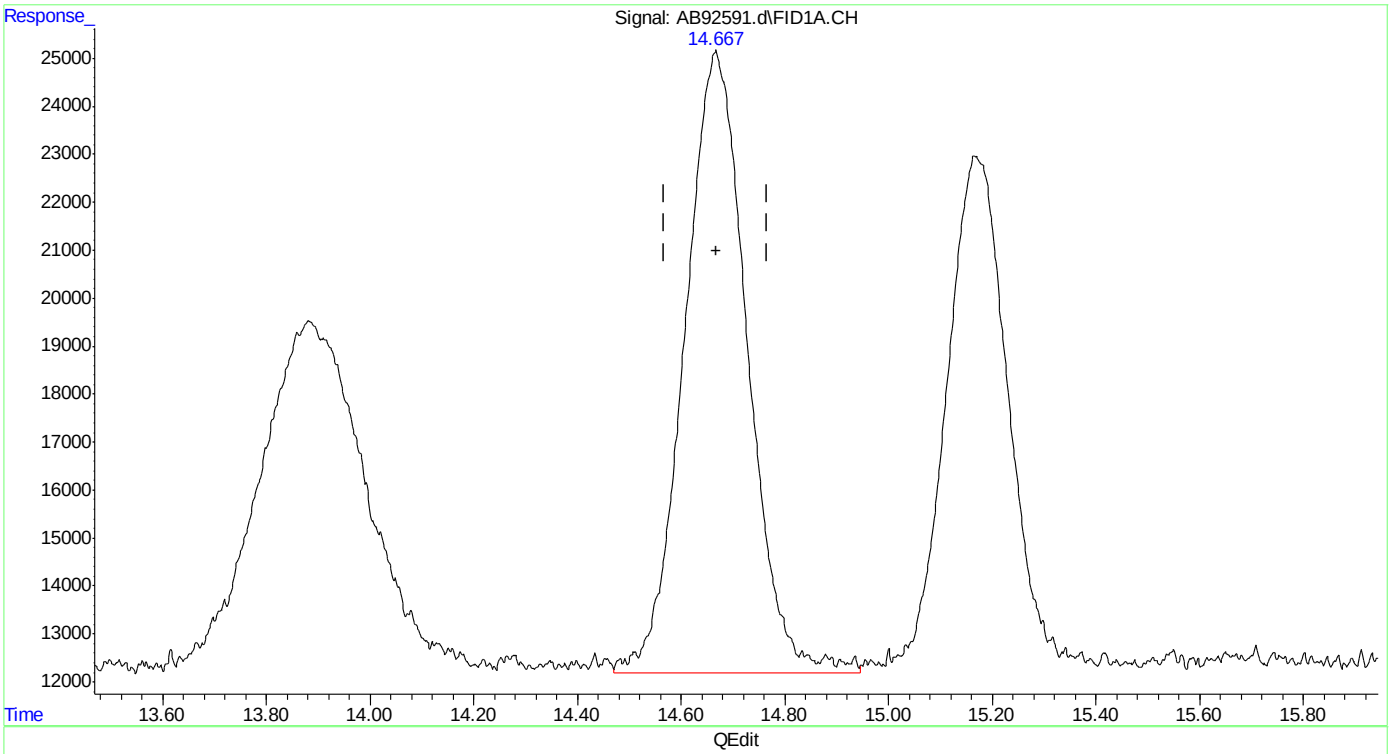
SGS ACCUTEST MC45538

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

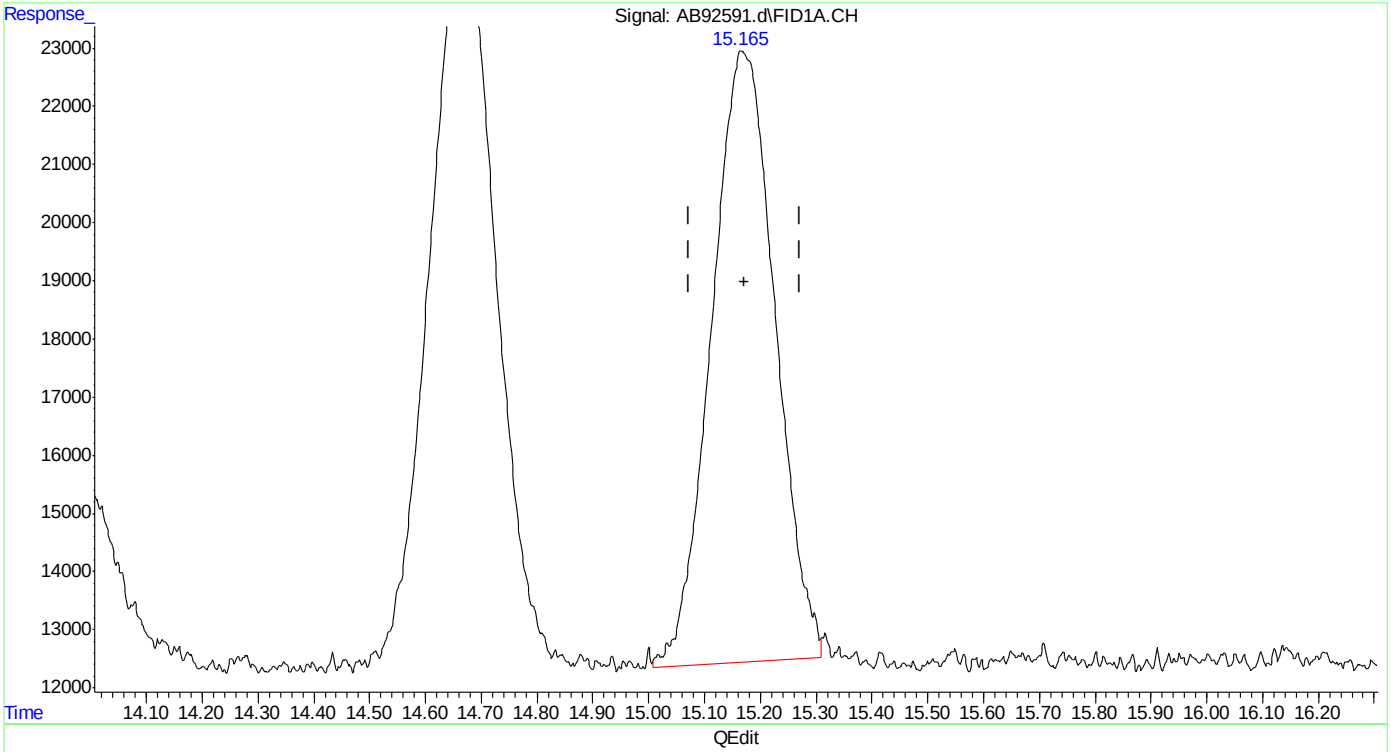
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:48 2016

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

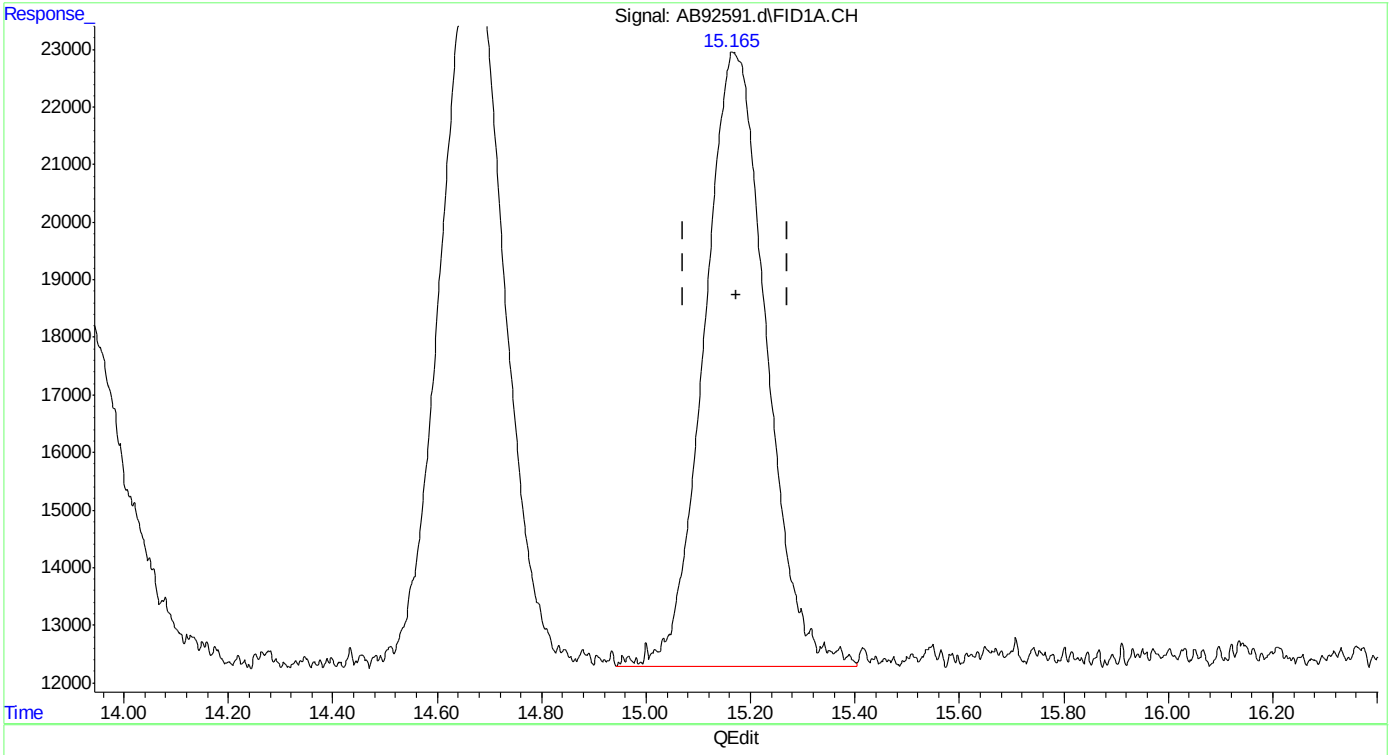
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:51 2016

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

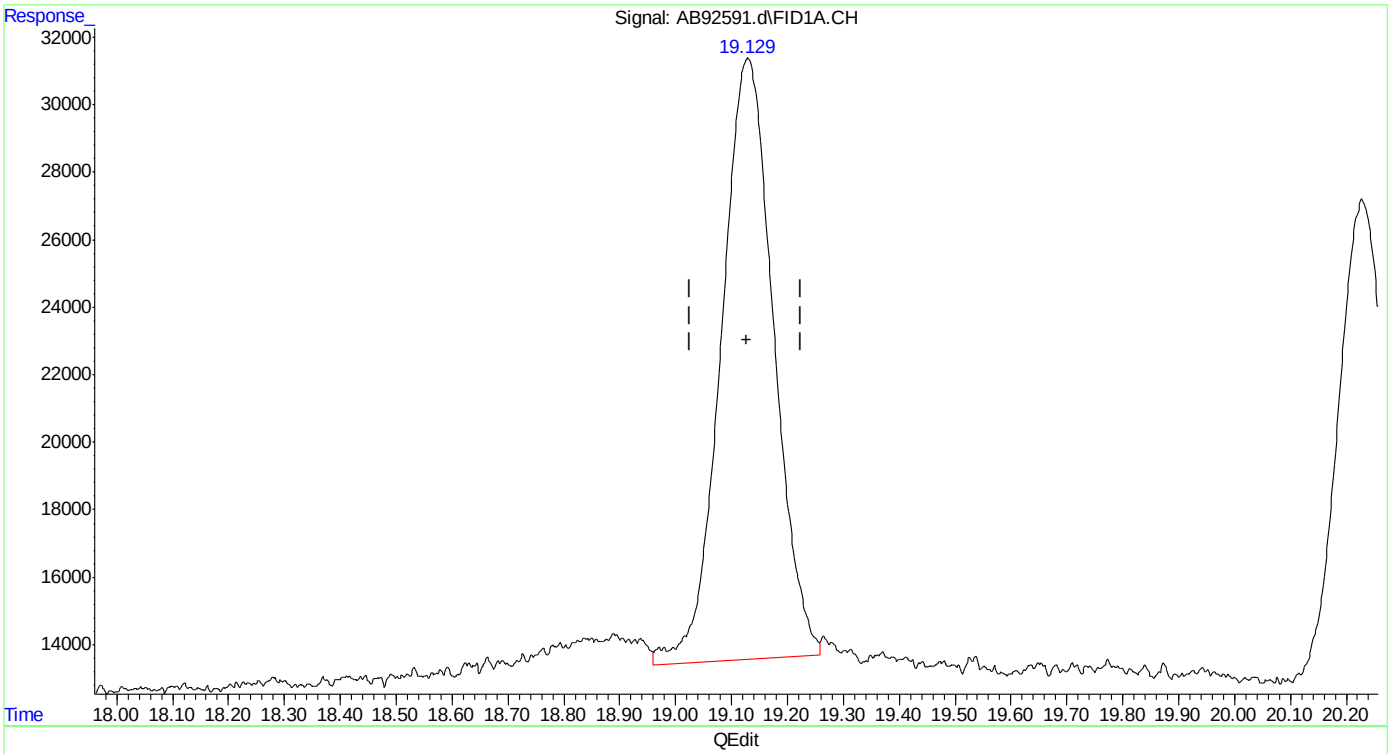
SGS ACCUTEST MC45538

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

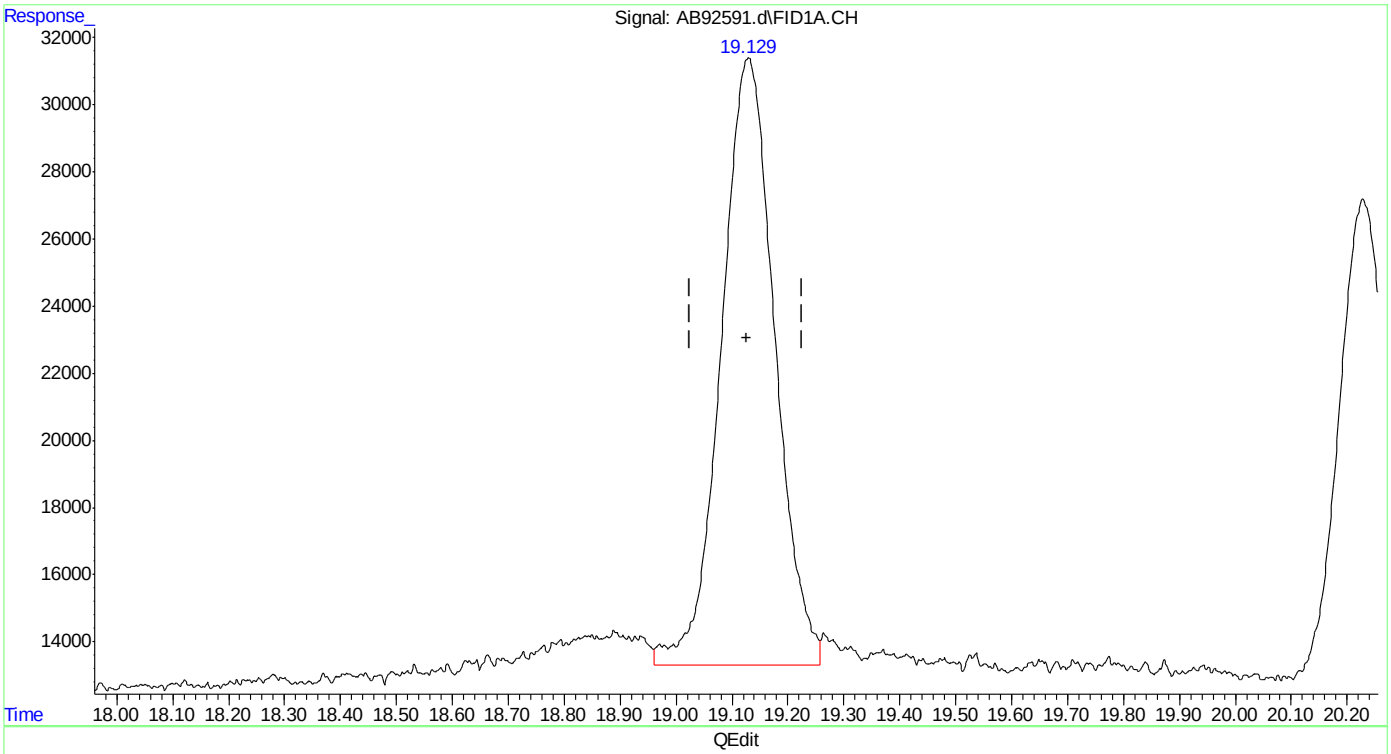
SGS ACCUTEST MC45538

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

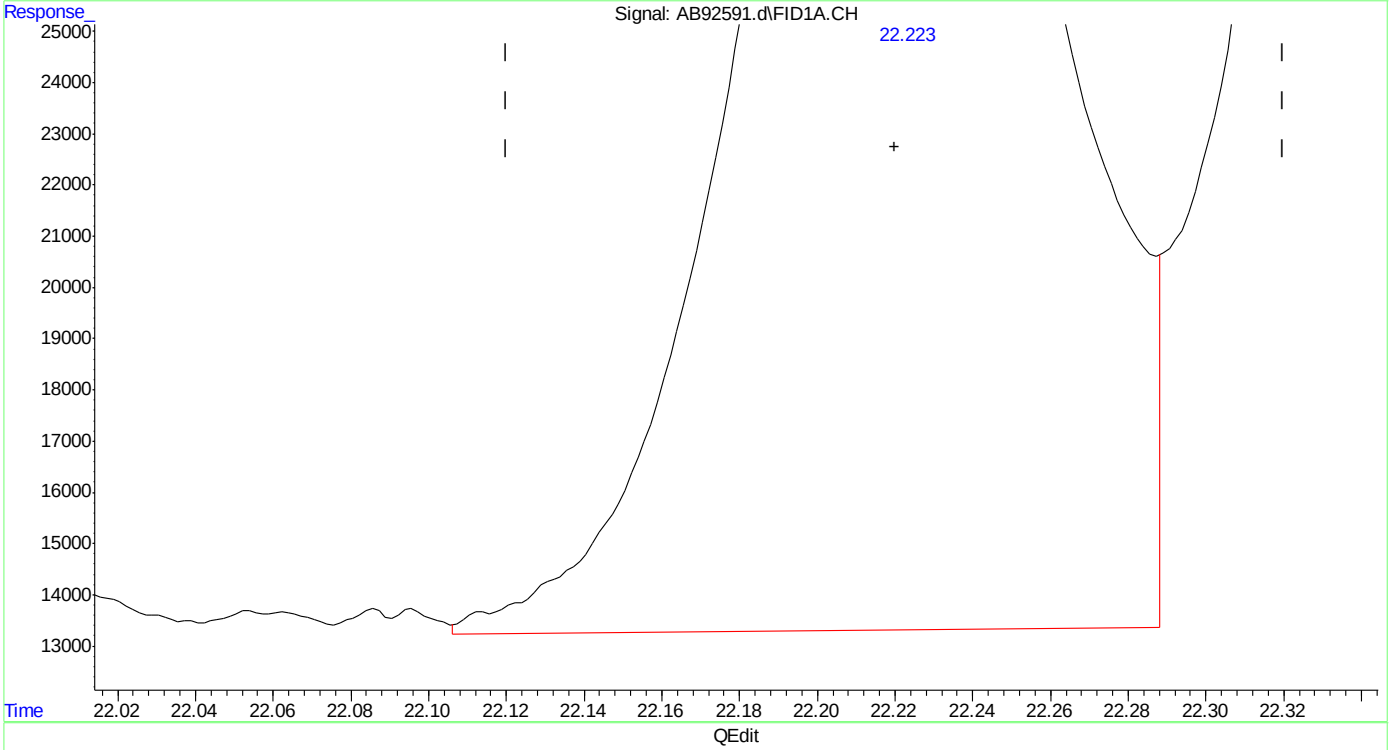
SGS ACCUTEST MC45538

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

ab160112vphmaster.M Tue Jan 12 13:22:32 2016

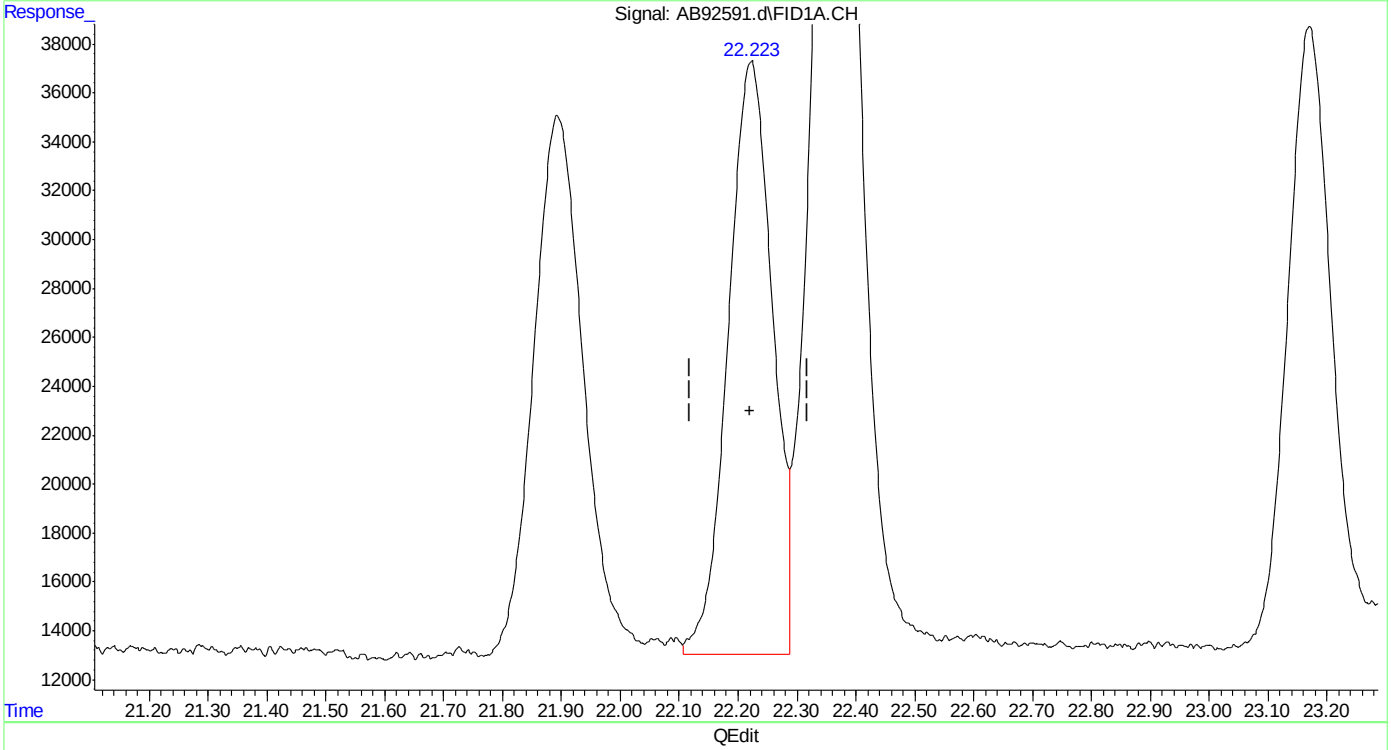
SGS ACCUTEST MC45538

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

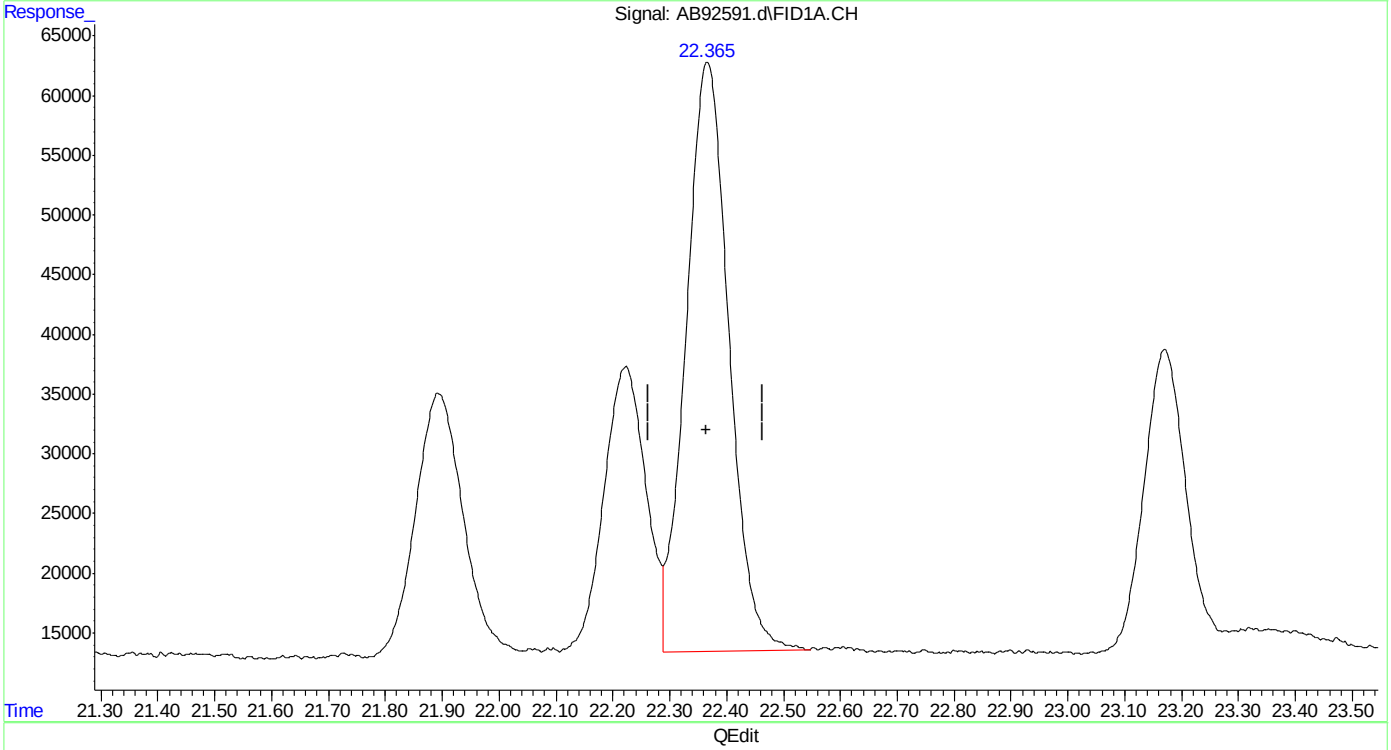
SGS ACCUTEST MC45538

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

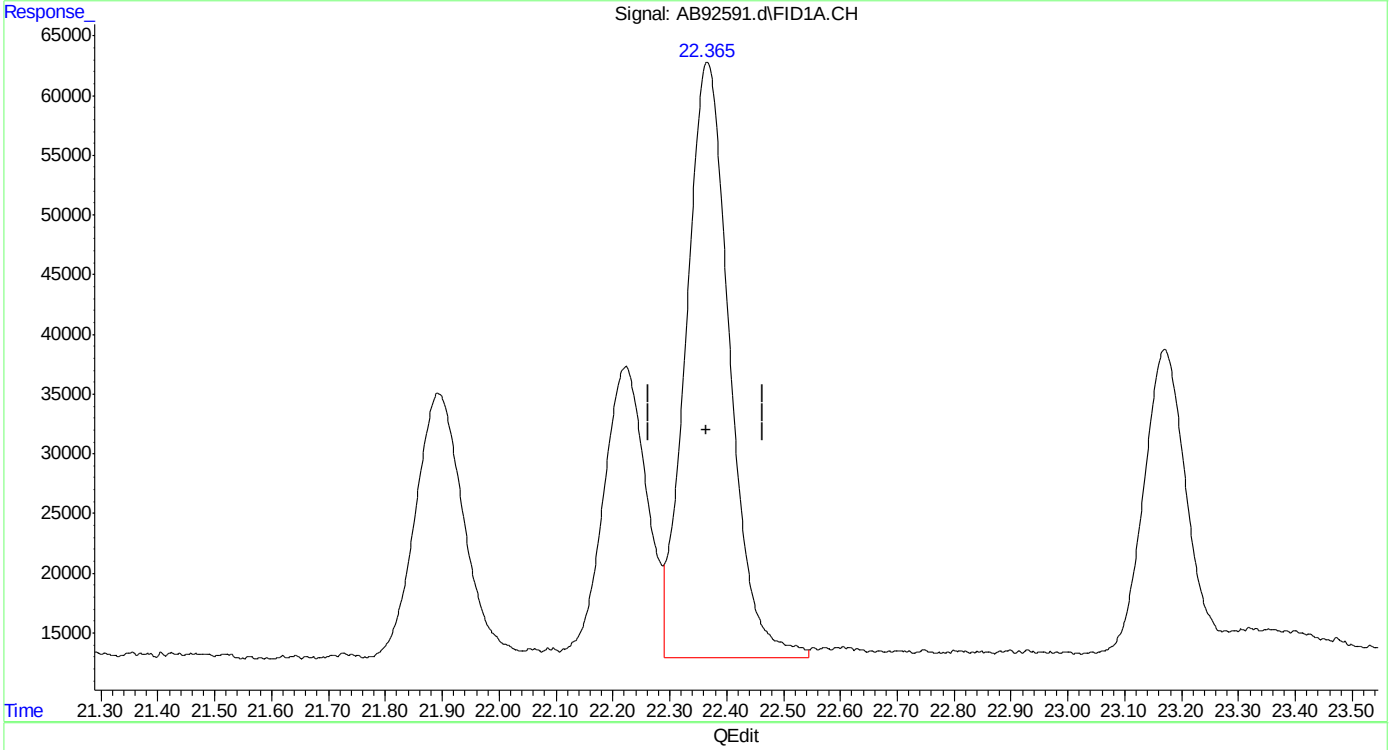
(+) = Expected Retention Time

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

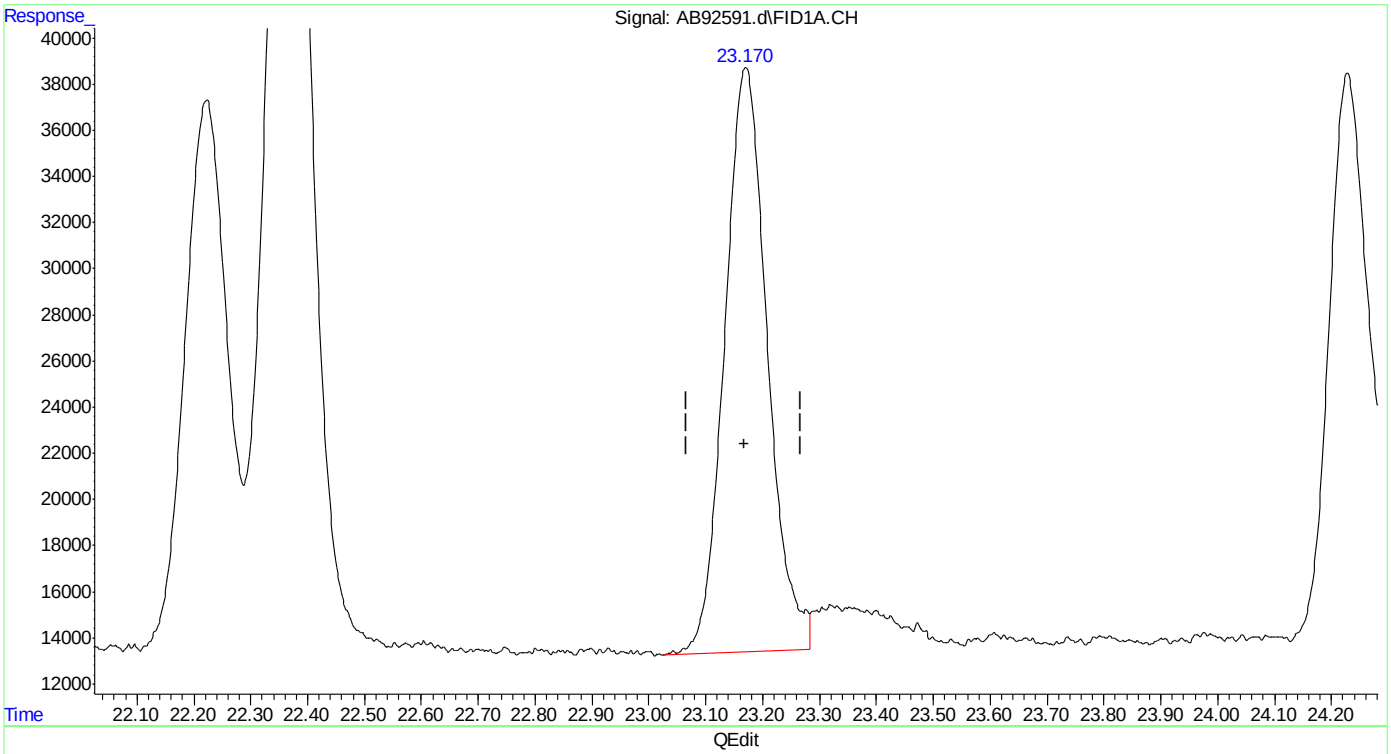
(+) = Expected Retention Time

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

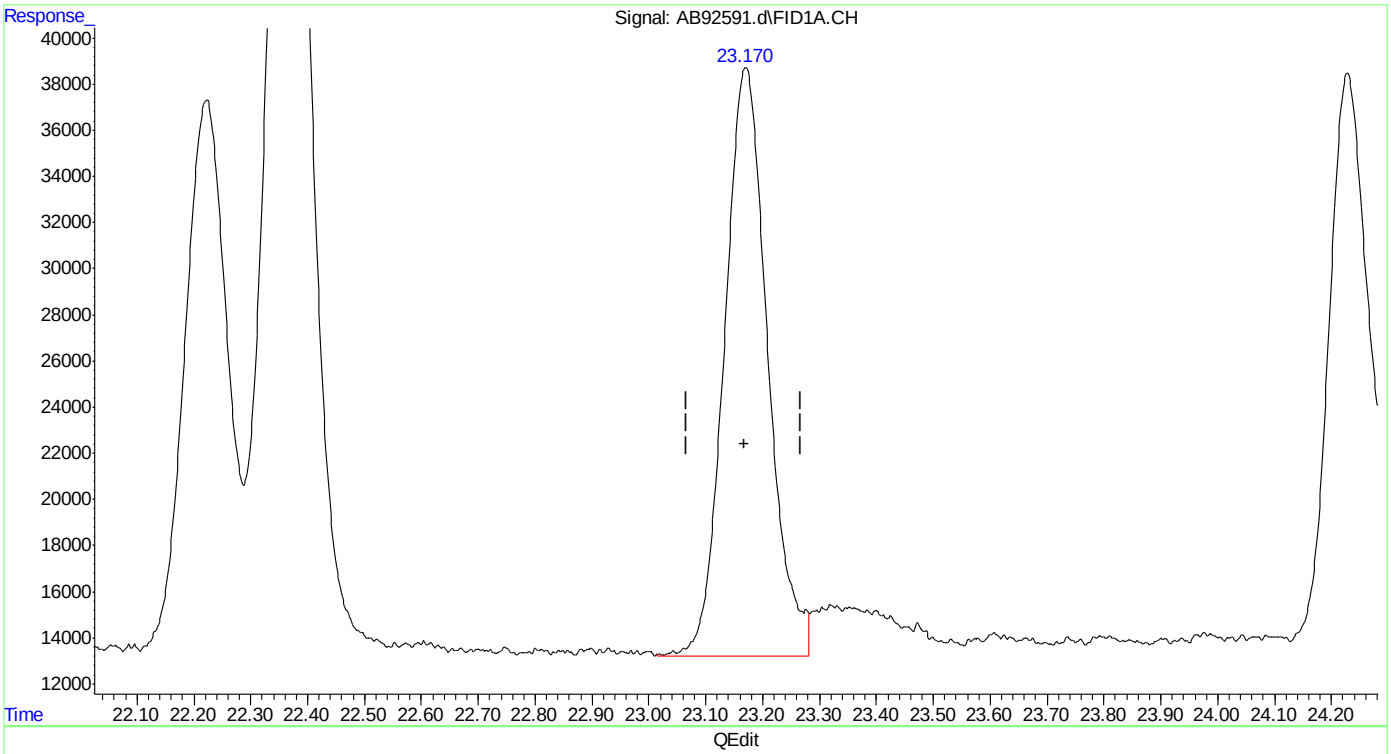
(+) = Expected Retention Time

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

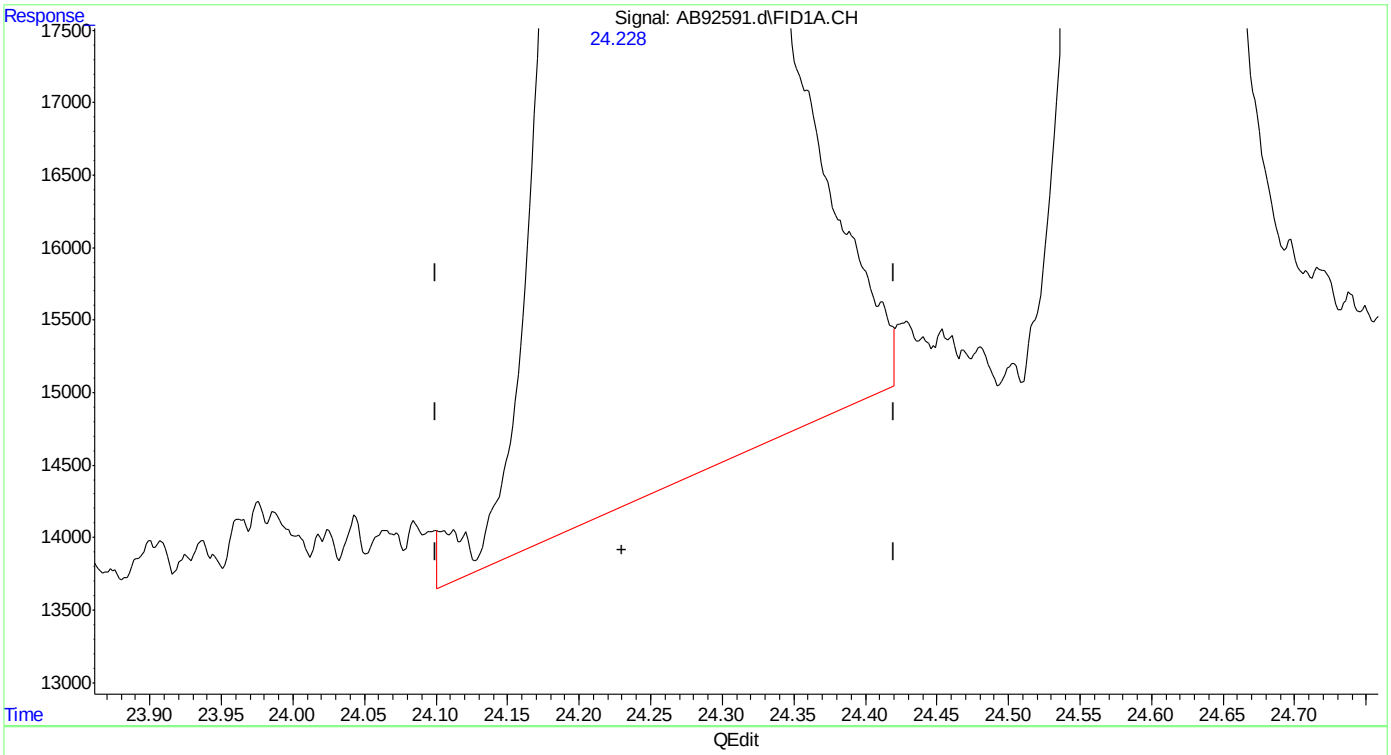
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:10 2016

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

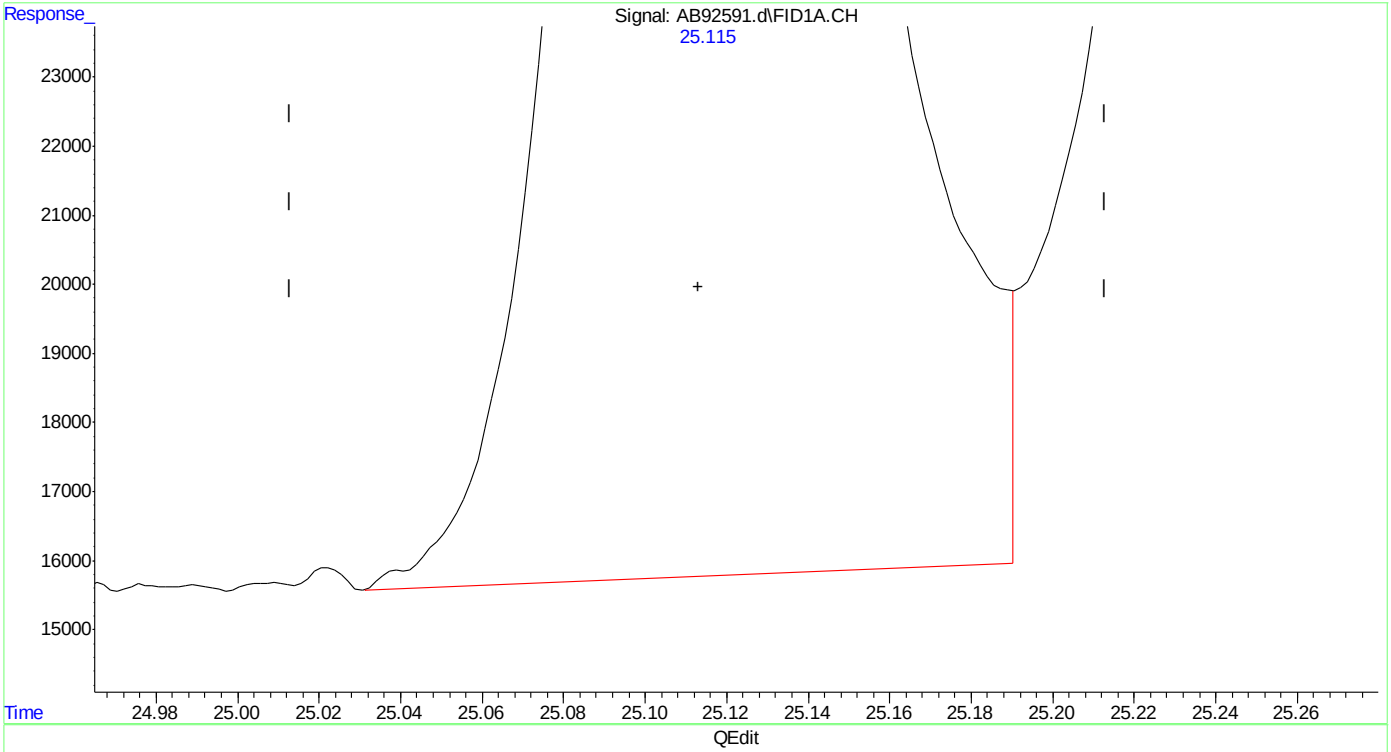
SGS ACCUTEST MC45538

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

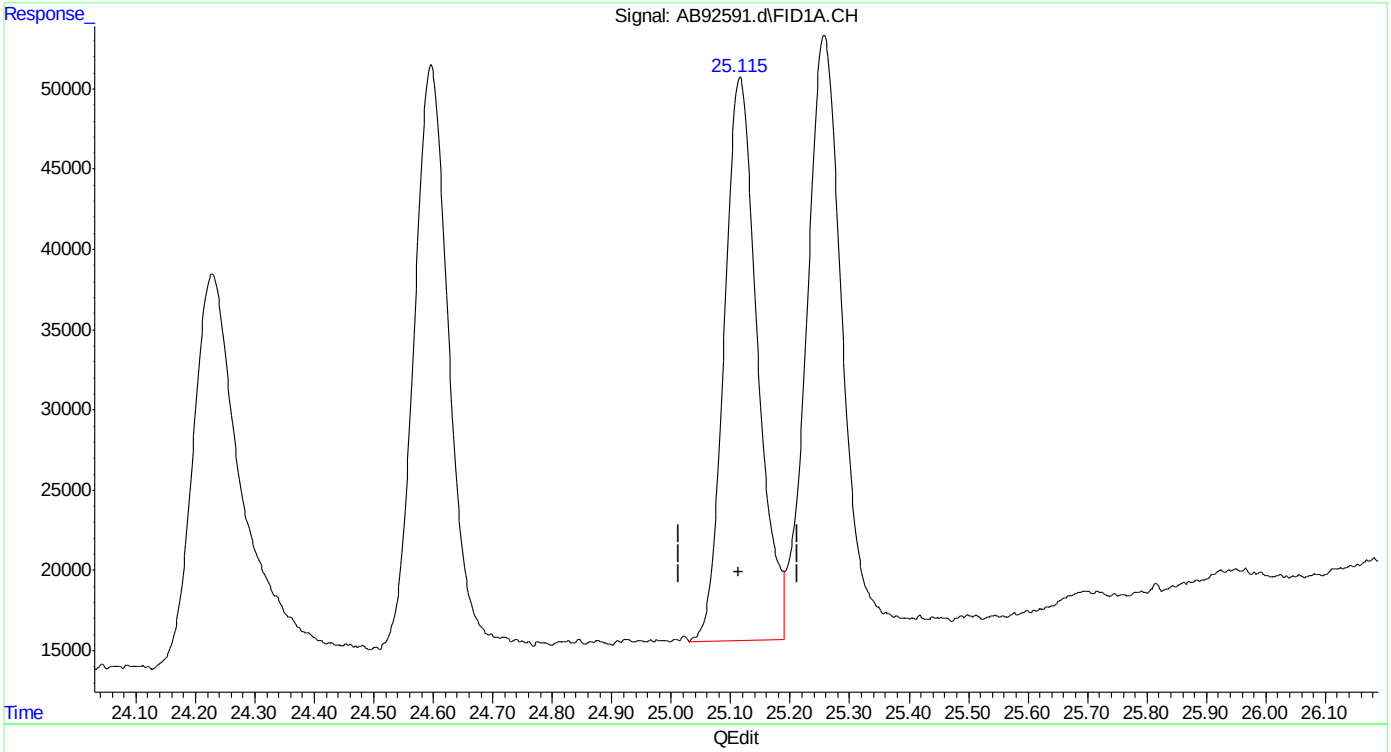
SGS ACCUTEST MC45538

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

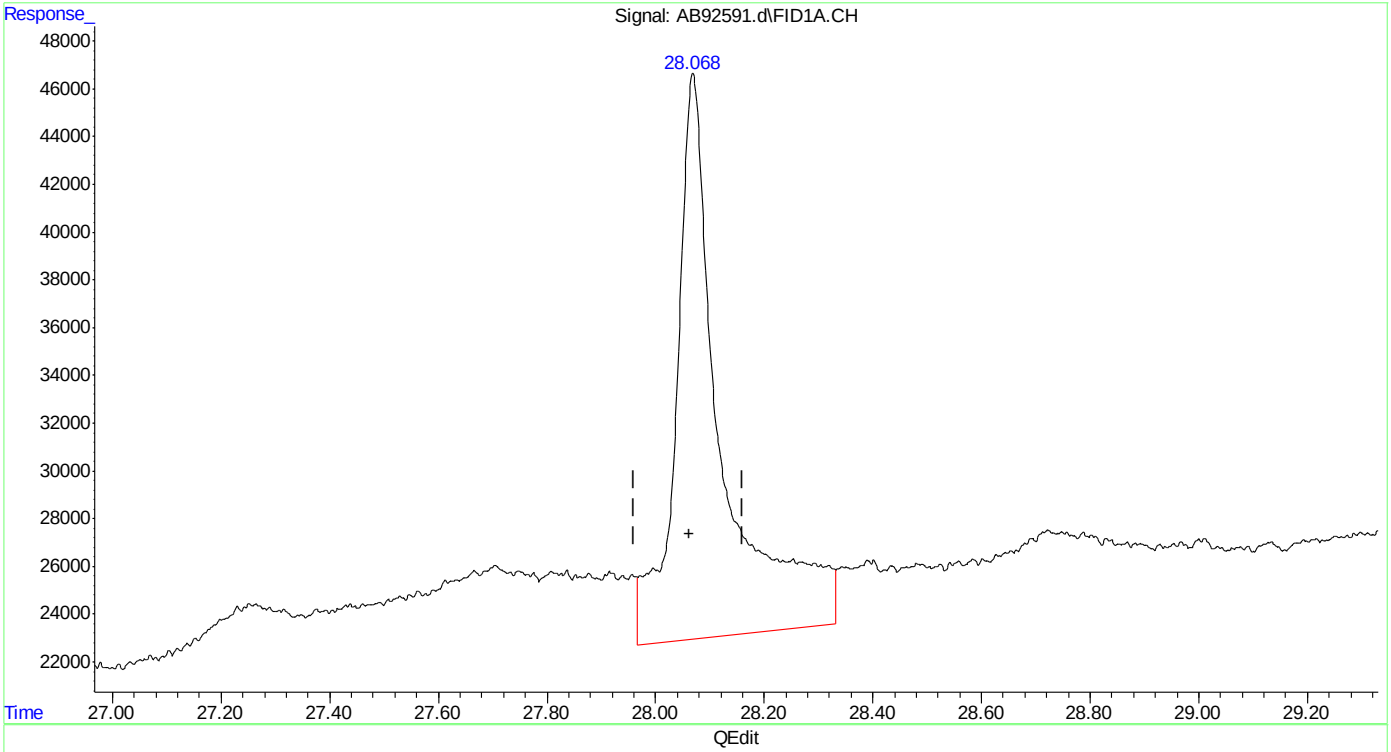
SGS ACCUTEST MC45538

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

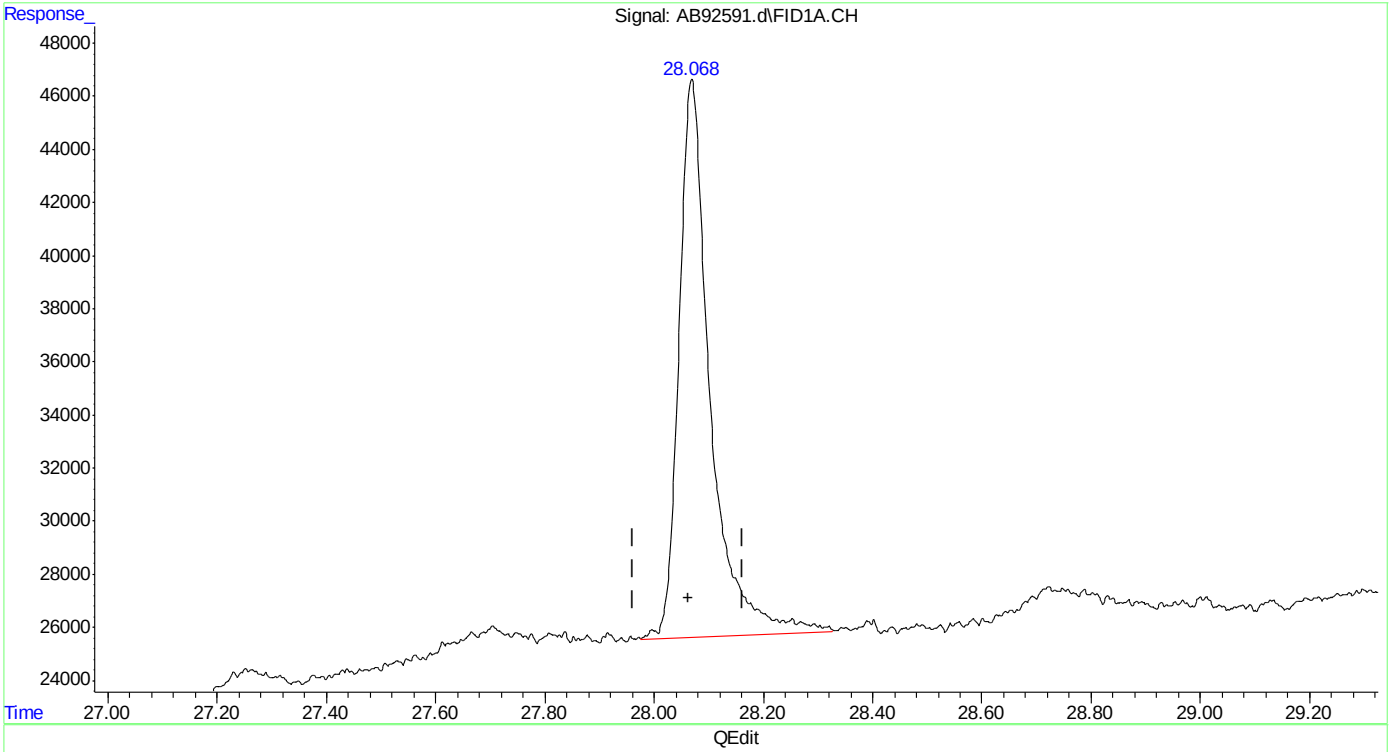
(+) = Expected Retention Time

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

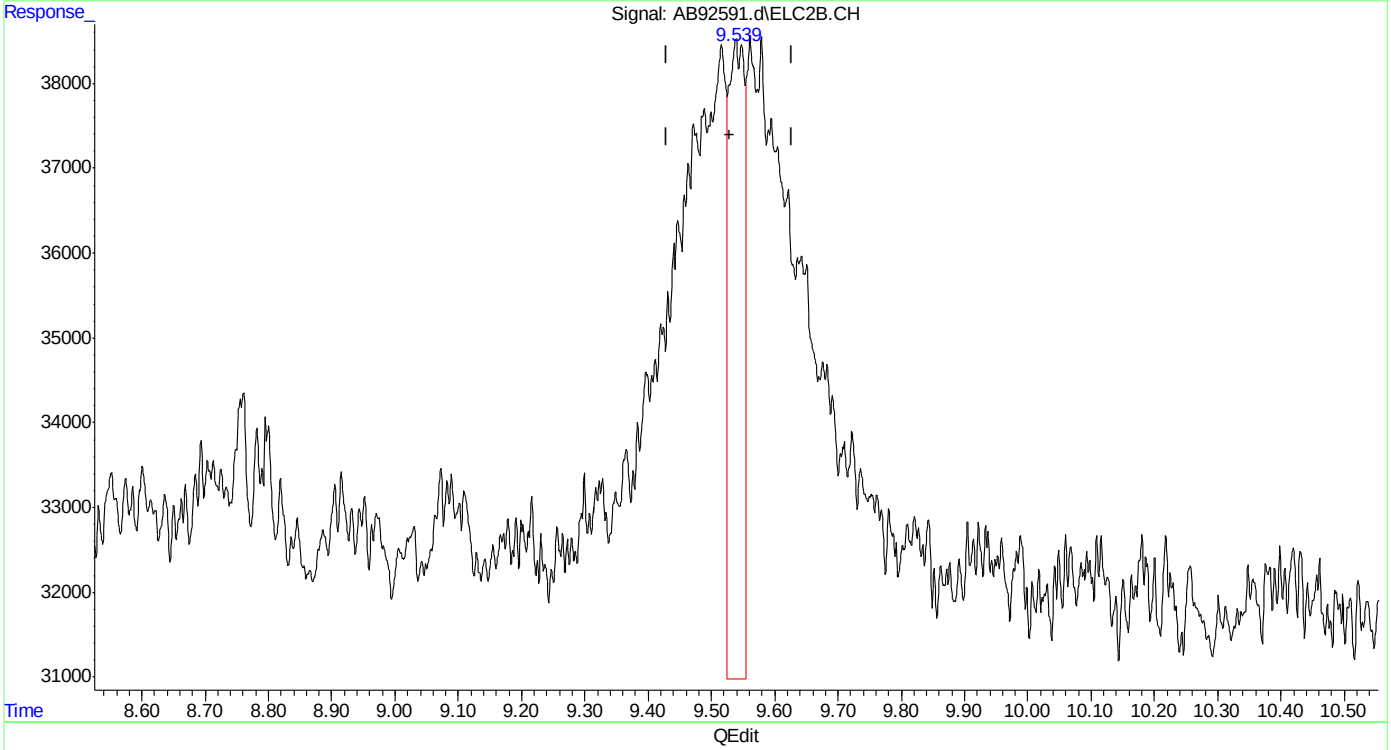
SGS ACCUTEST MC45538

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

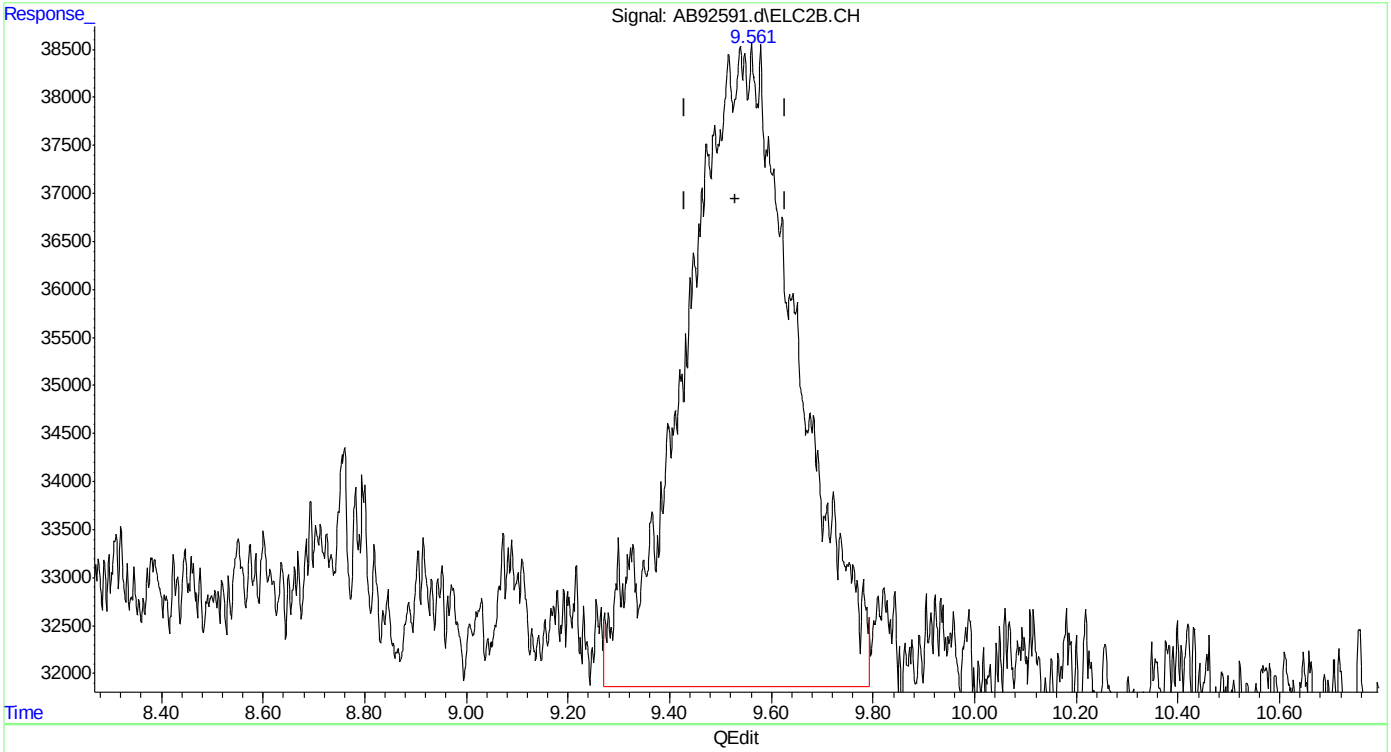
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:03 2016 Page: 1

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 :



(23) mtbe #2
9.561min 1.952 ppb m
response 1012871

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:26 2016

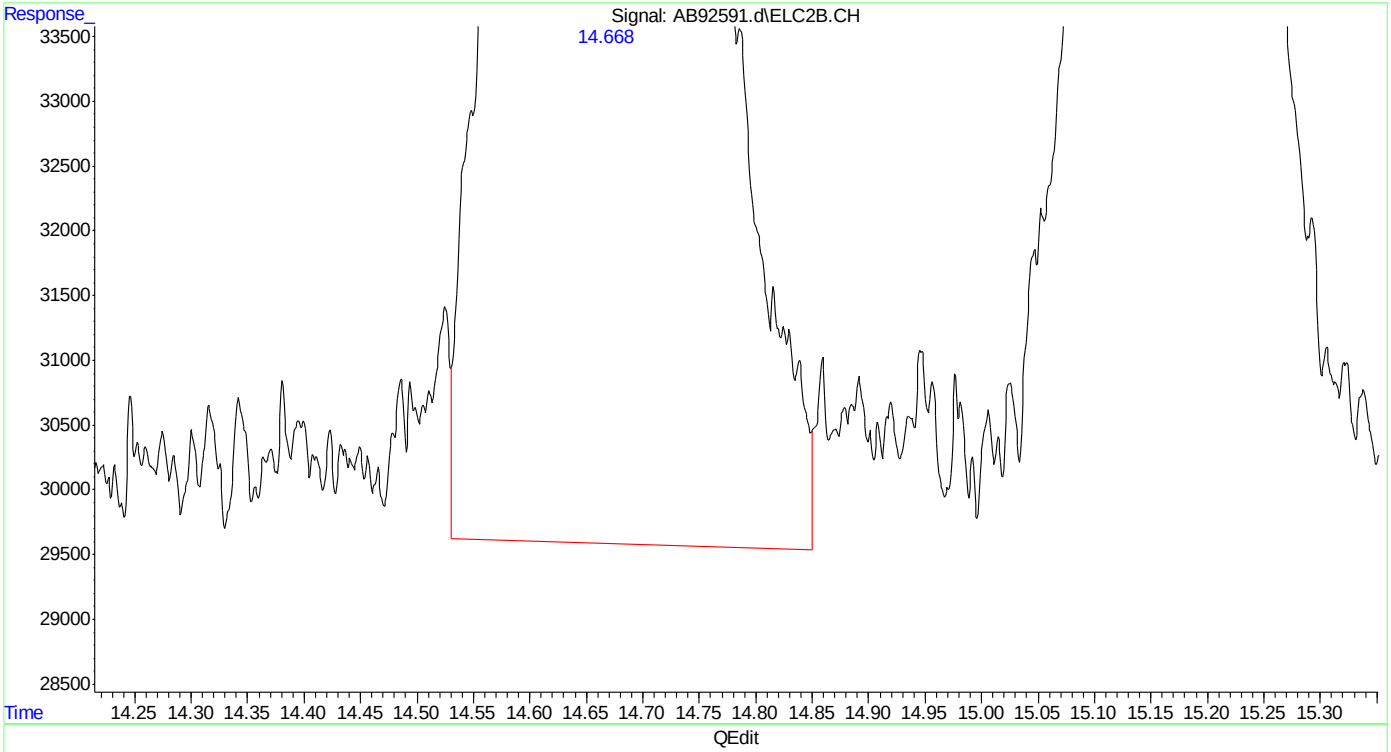
SGS ACCUTEST MC45538

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

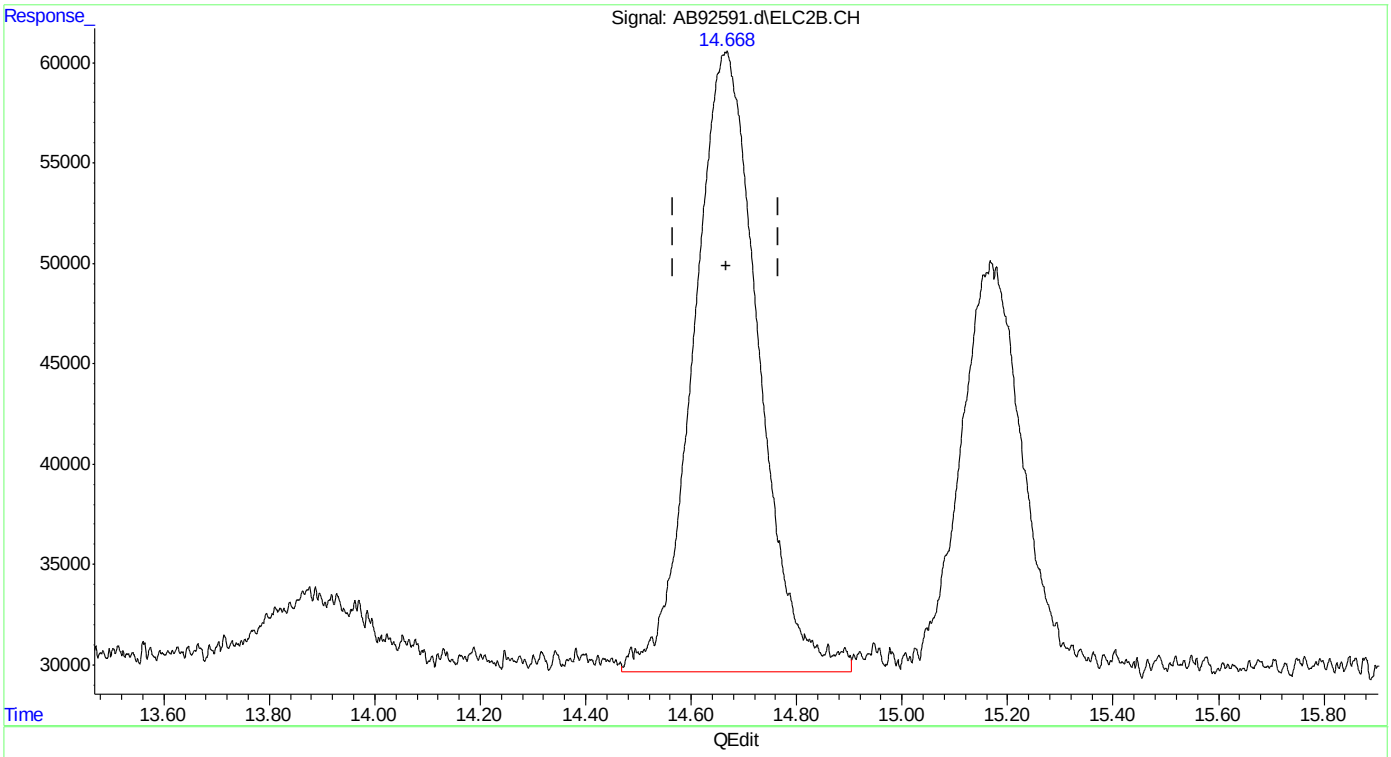
SGS ACCUTEST MC45538

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

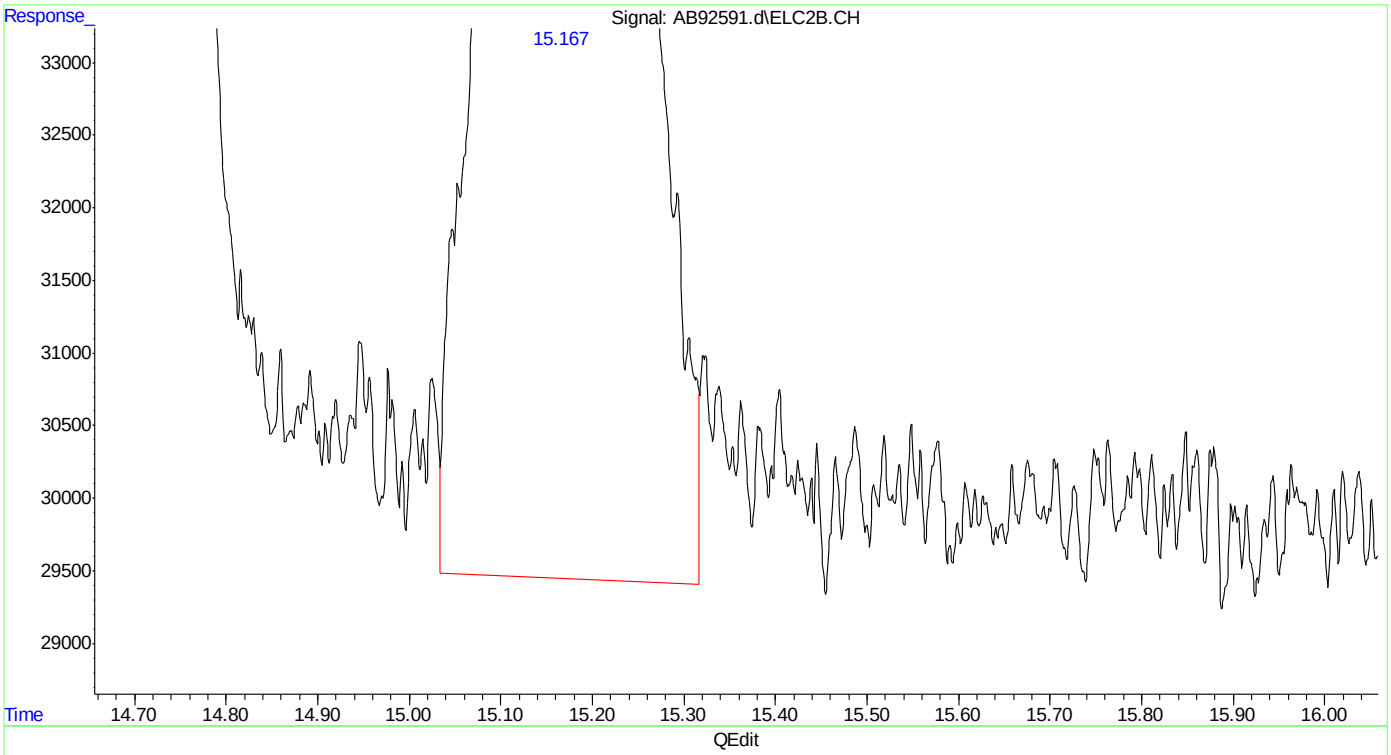
SGS ACCUTEST MC45538

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

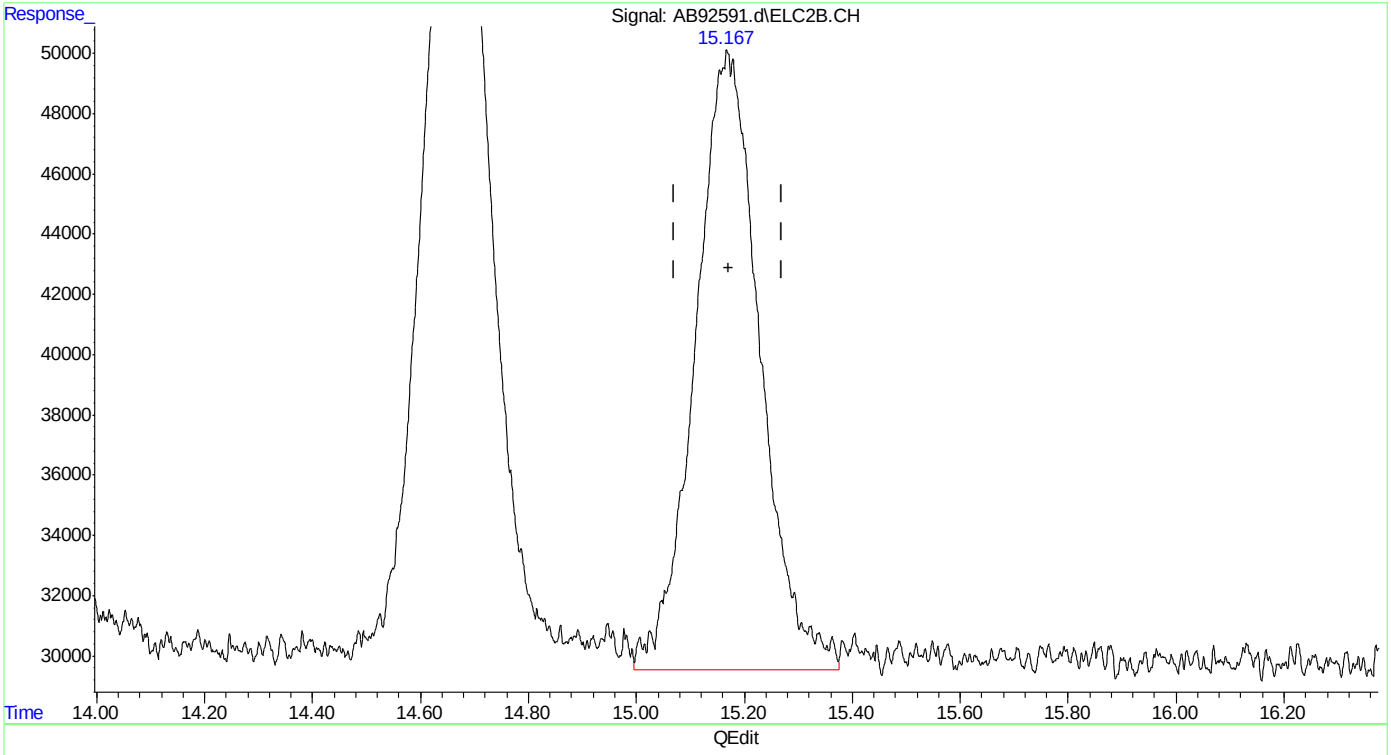
SGS ACCUTEST MC45538

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

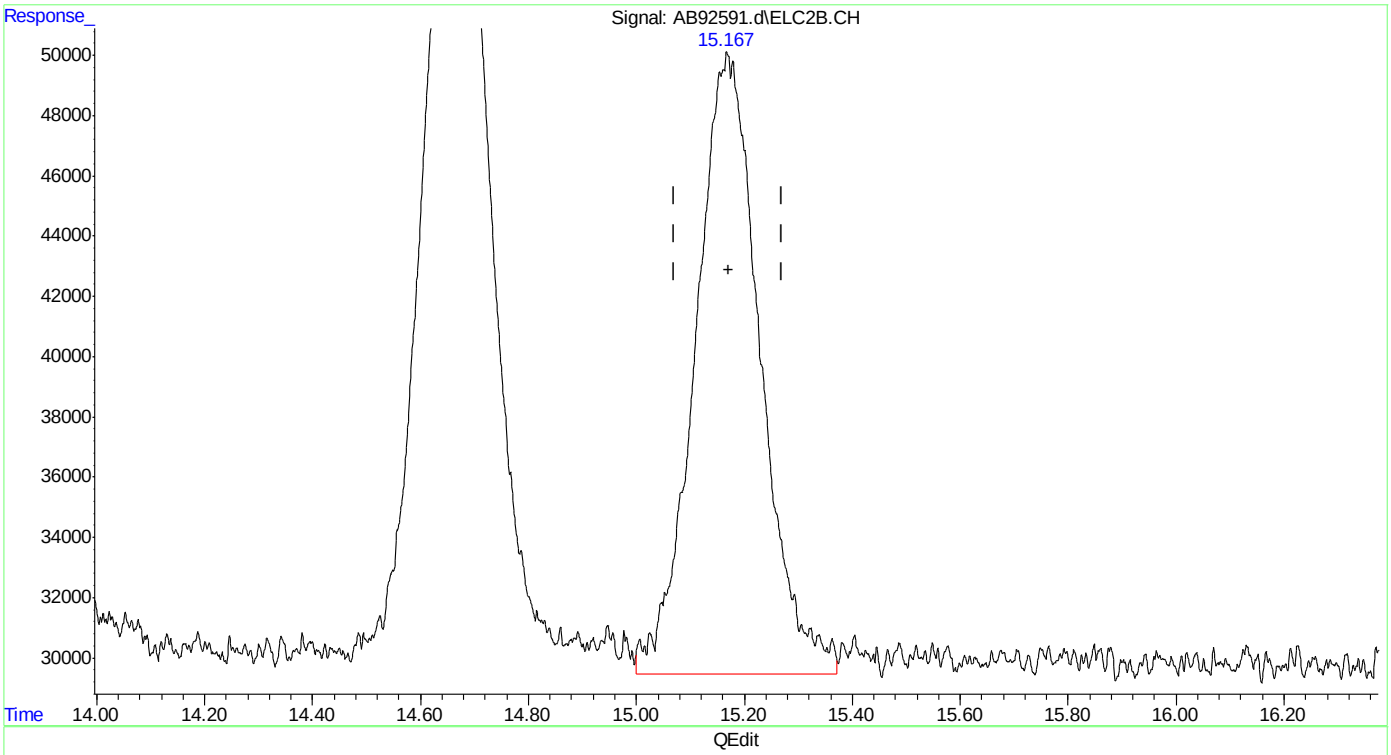
SGS ACCUTEST MC45538

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

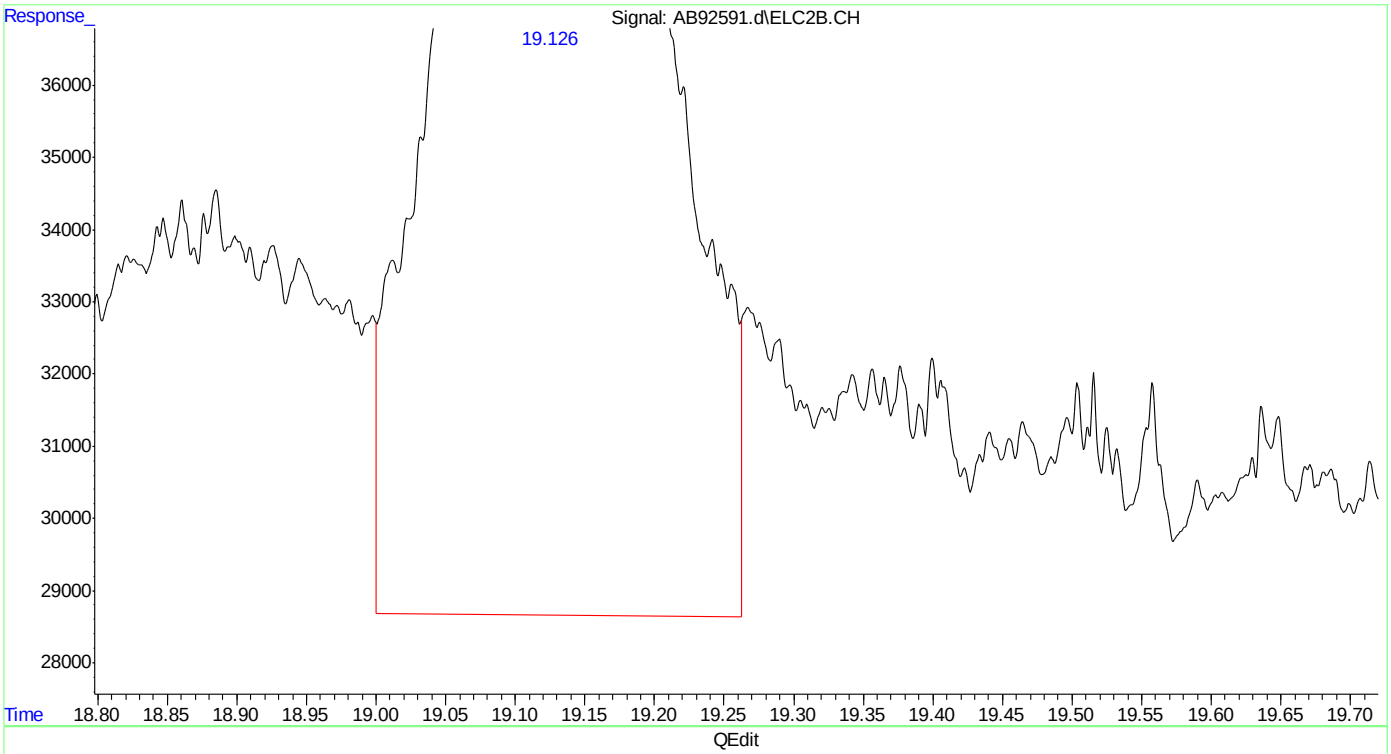
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:21 2016 Page: 1

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

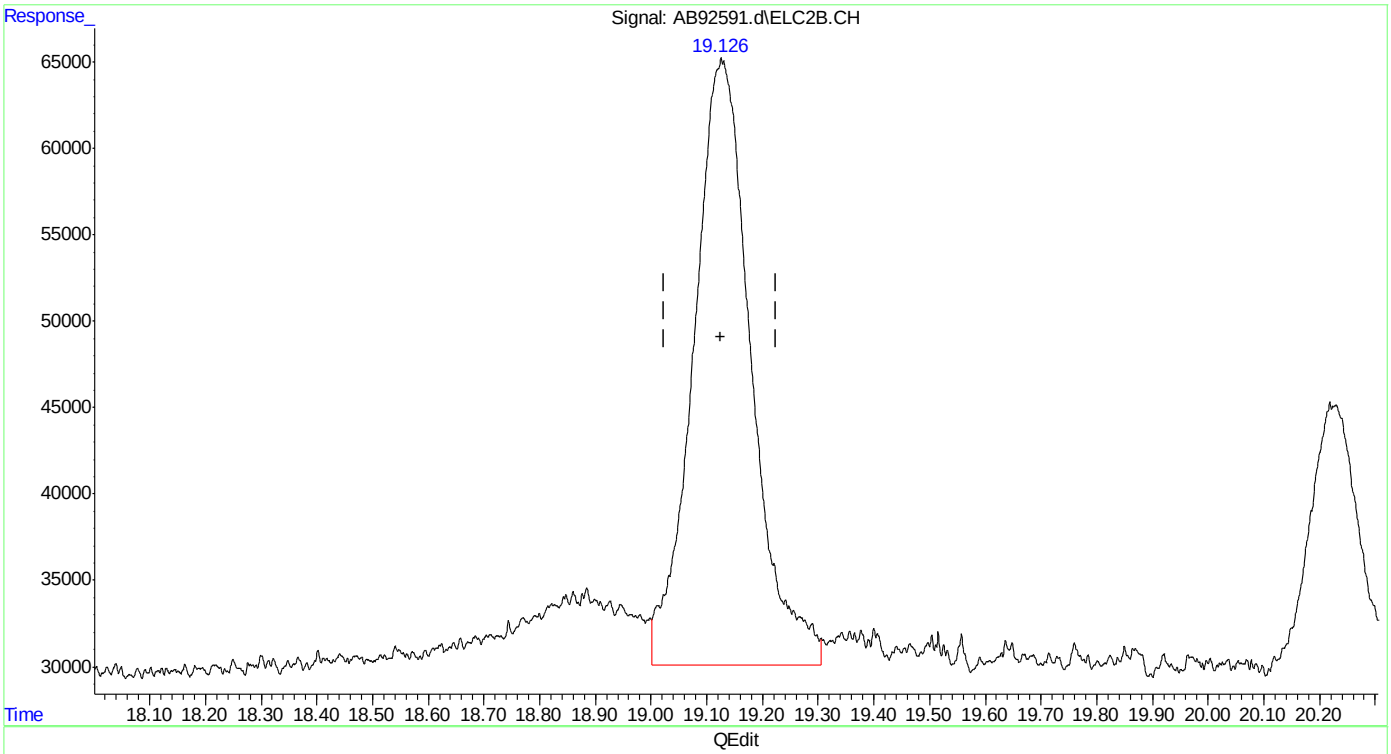
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:28 2016 Page: 1

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

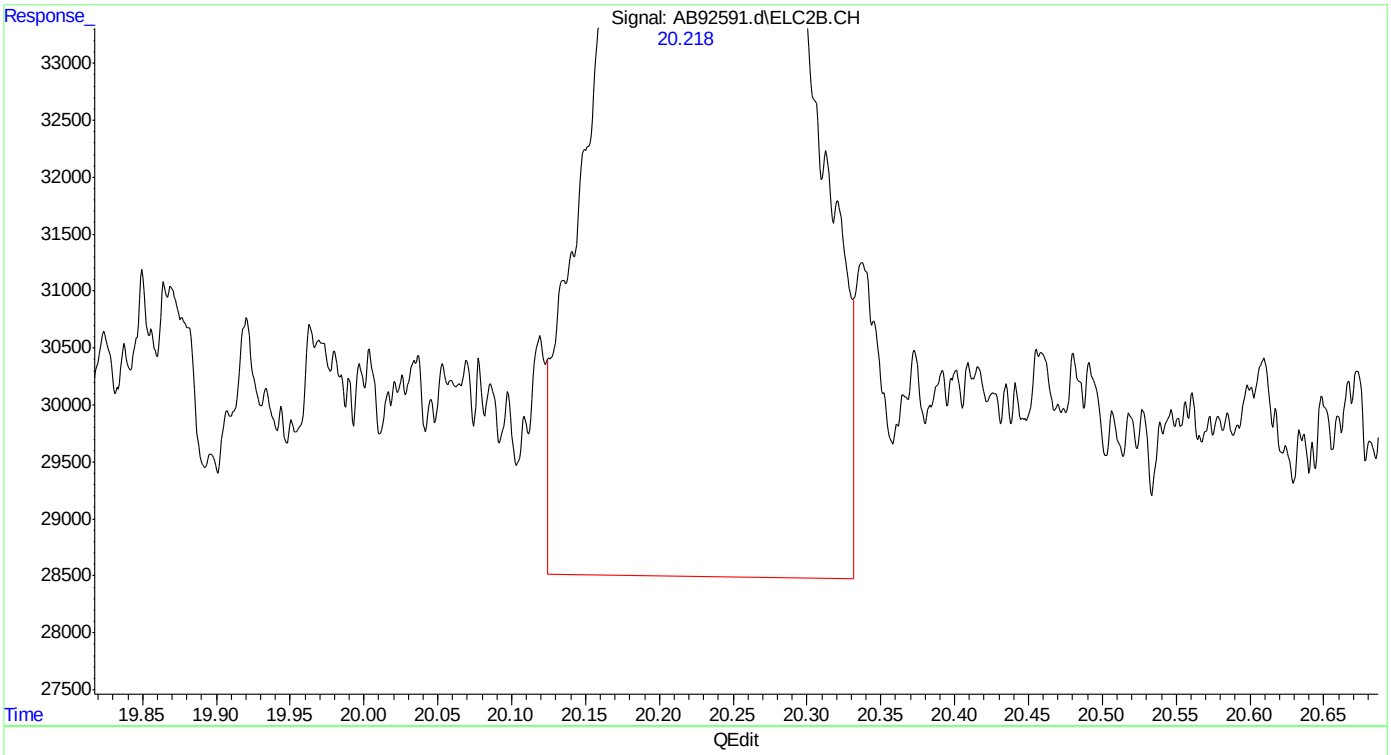
SGS ACCUTEST MC45538

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

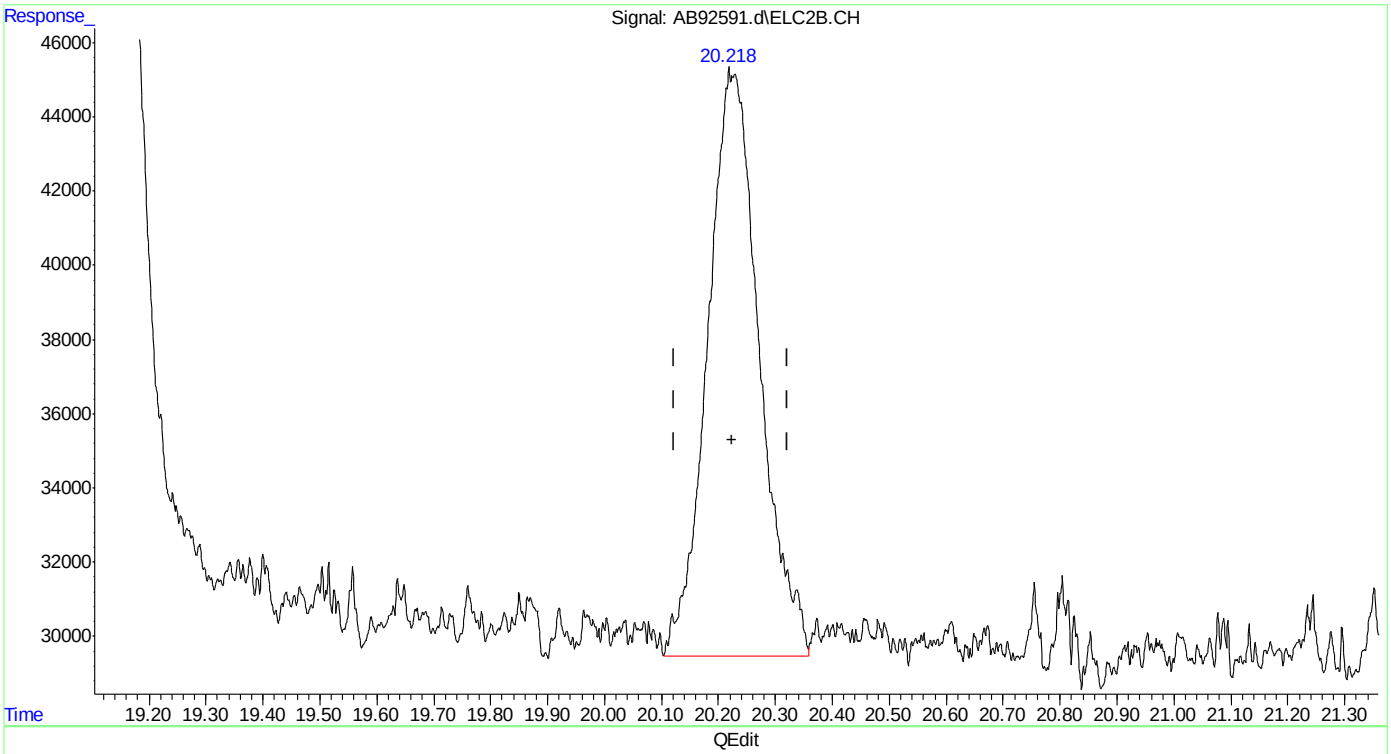
(+) = Expected Retention Time

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

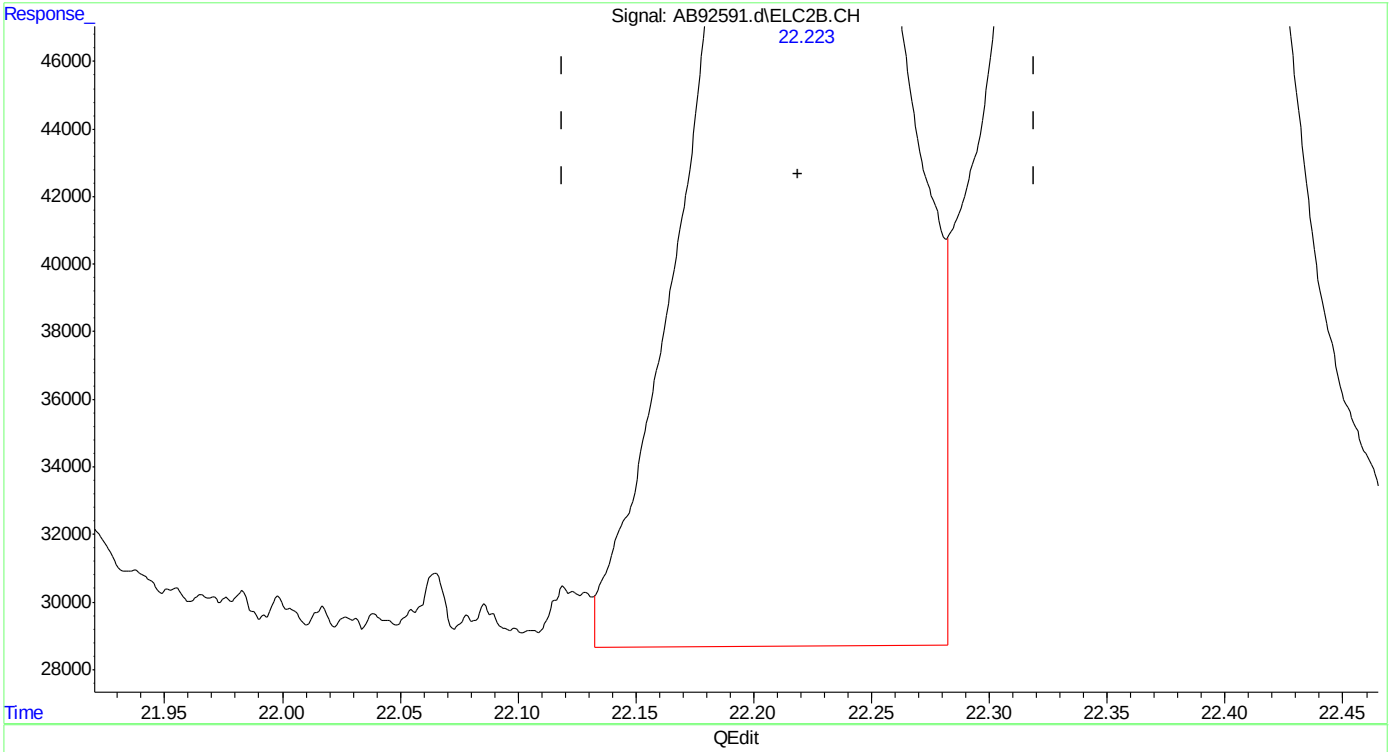
SGS ACCUTEST MC45538

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

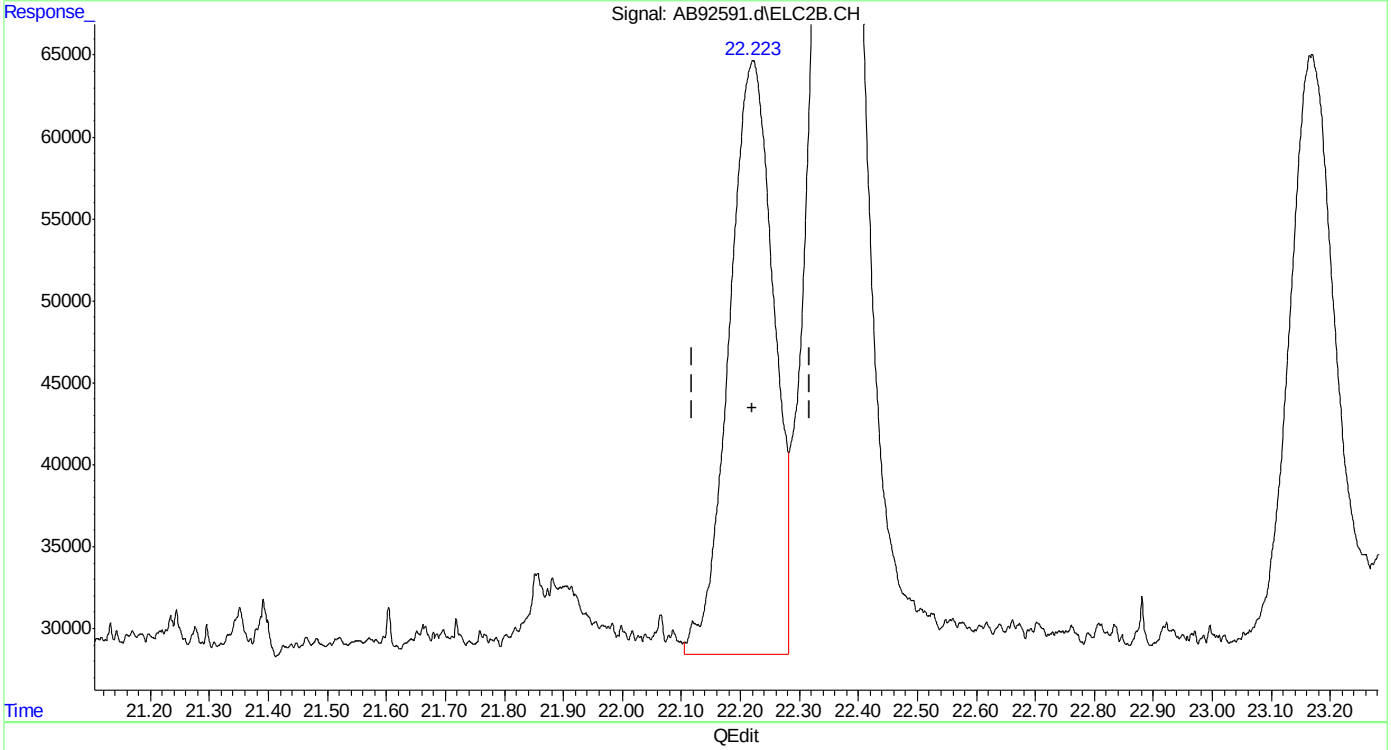
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:11 2016

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

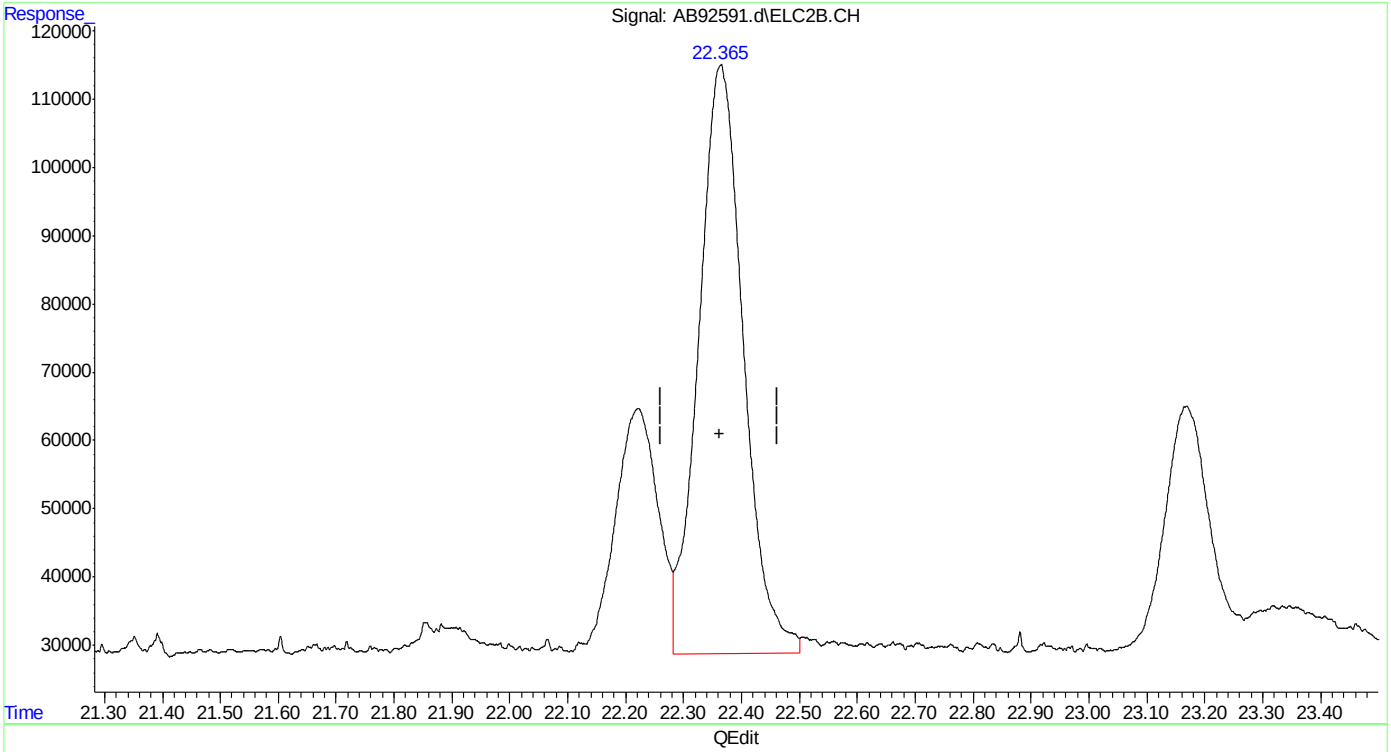
SGS ACCUTEST MC45538

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
ab160112vphmaster.M Tue Jan 12 13:27:34 2016

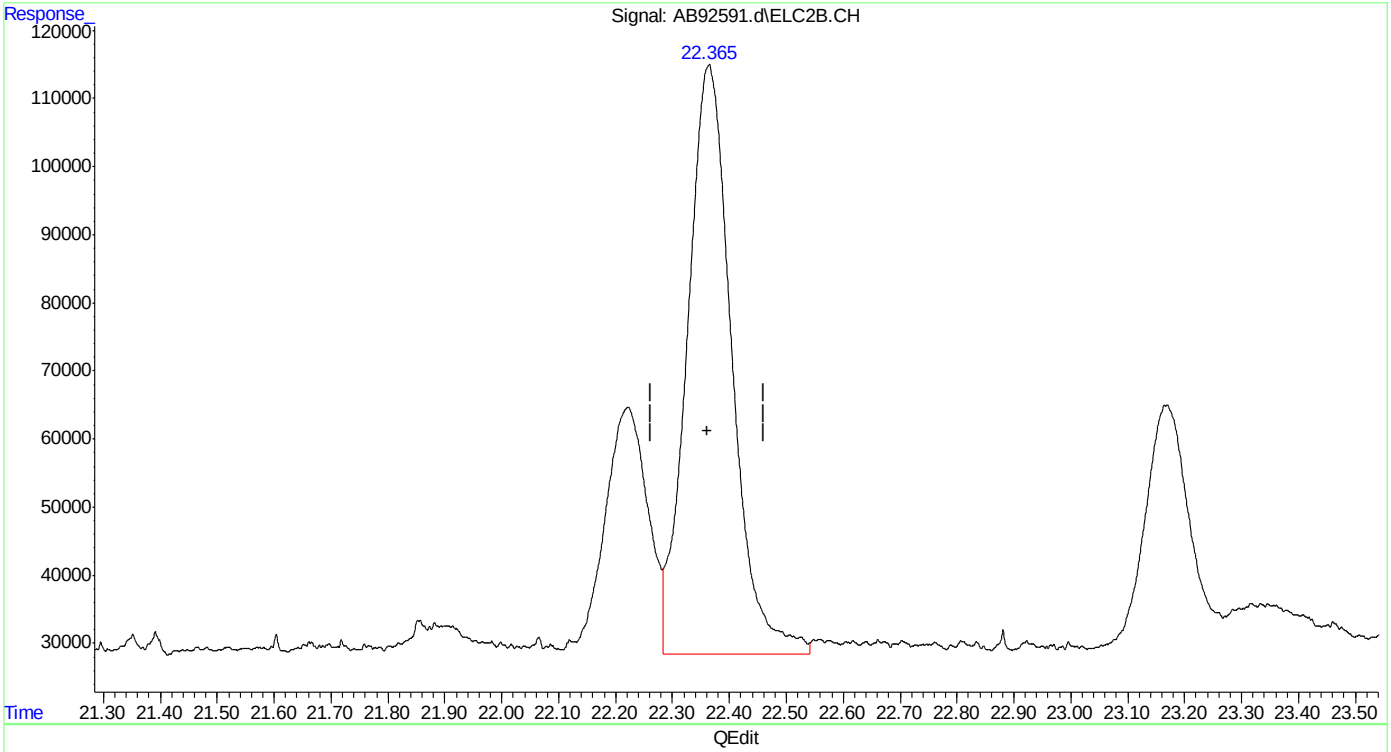
SGS ACCUTEST MC45538

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

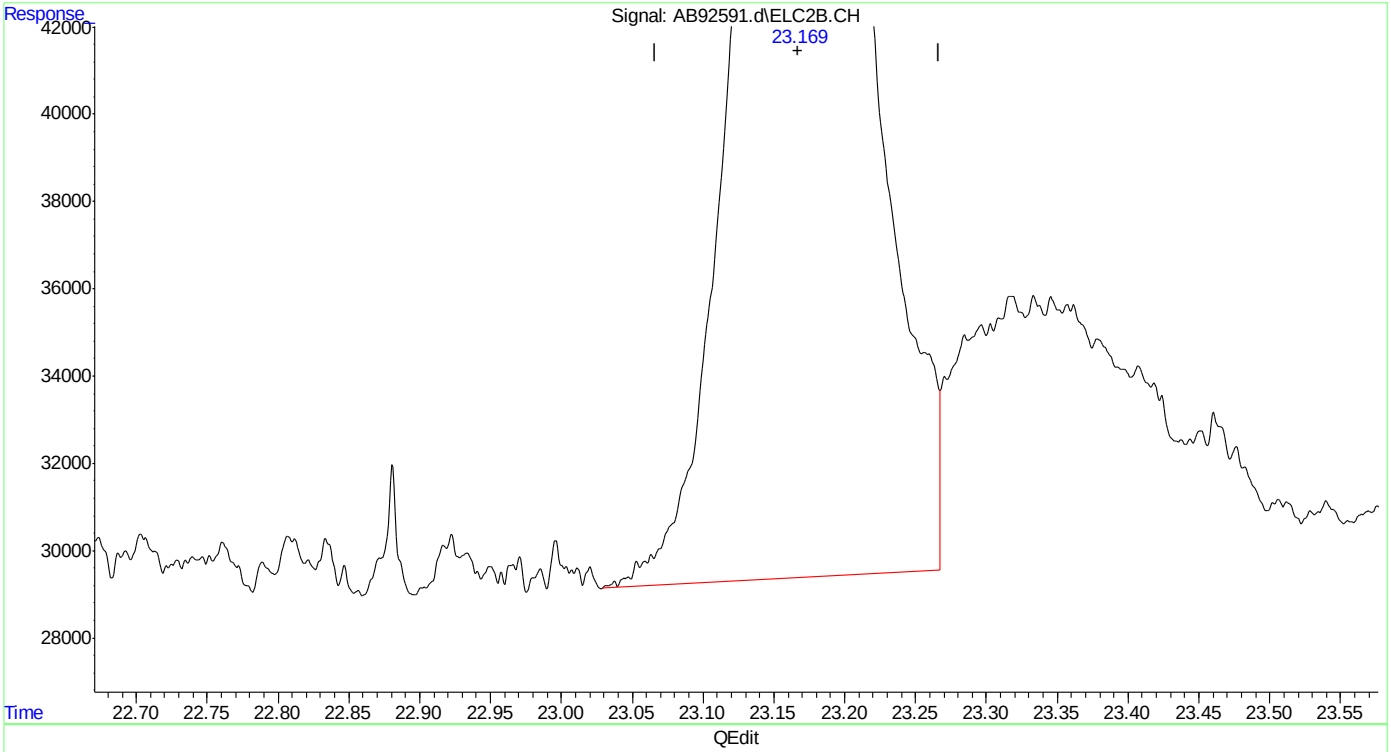
SGS ACCUTEST MC45538

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

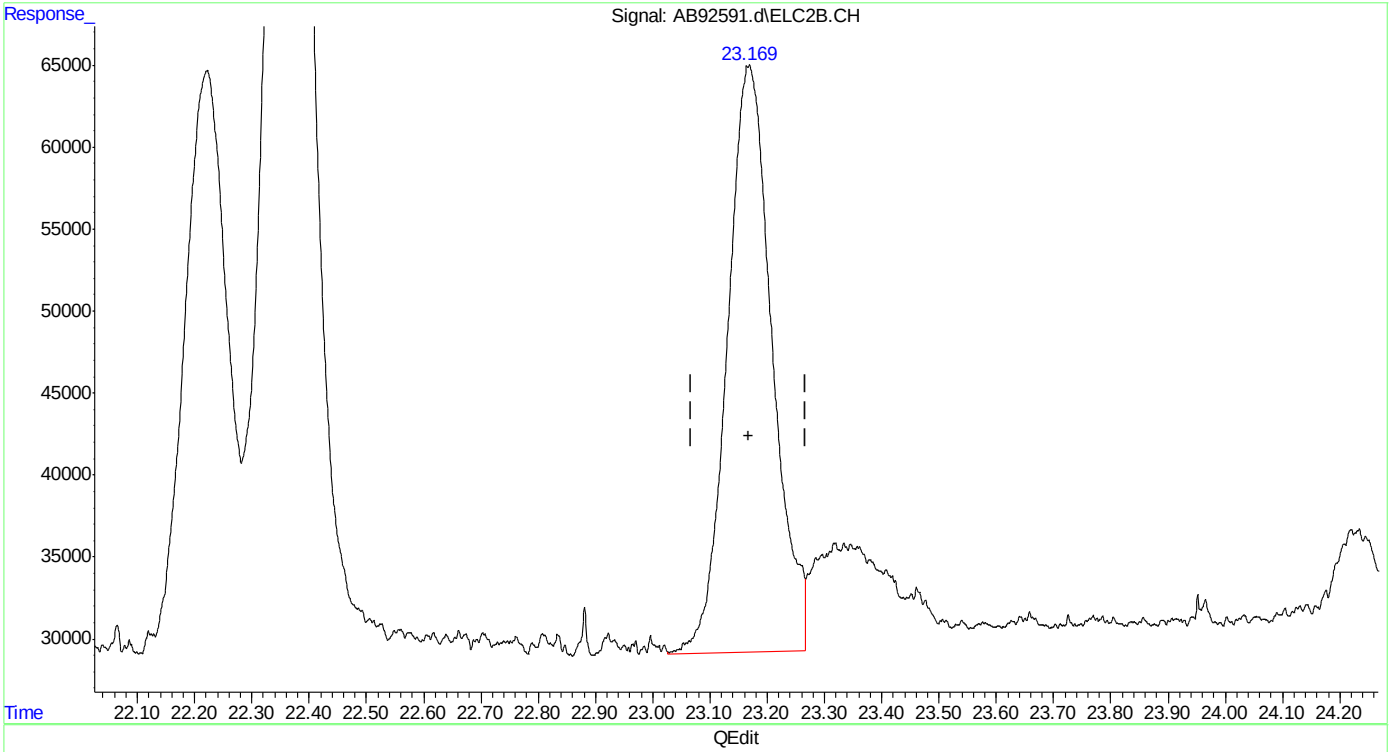
SGS ACCUTEST MC45538

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

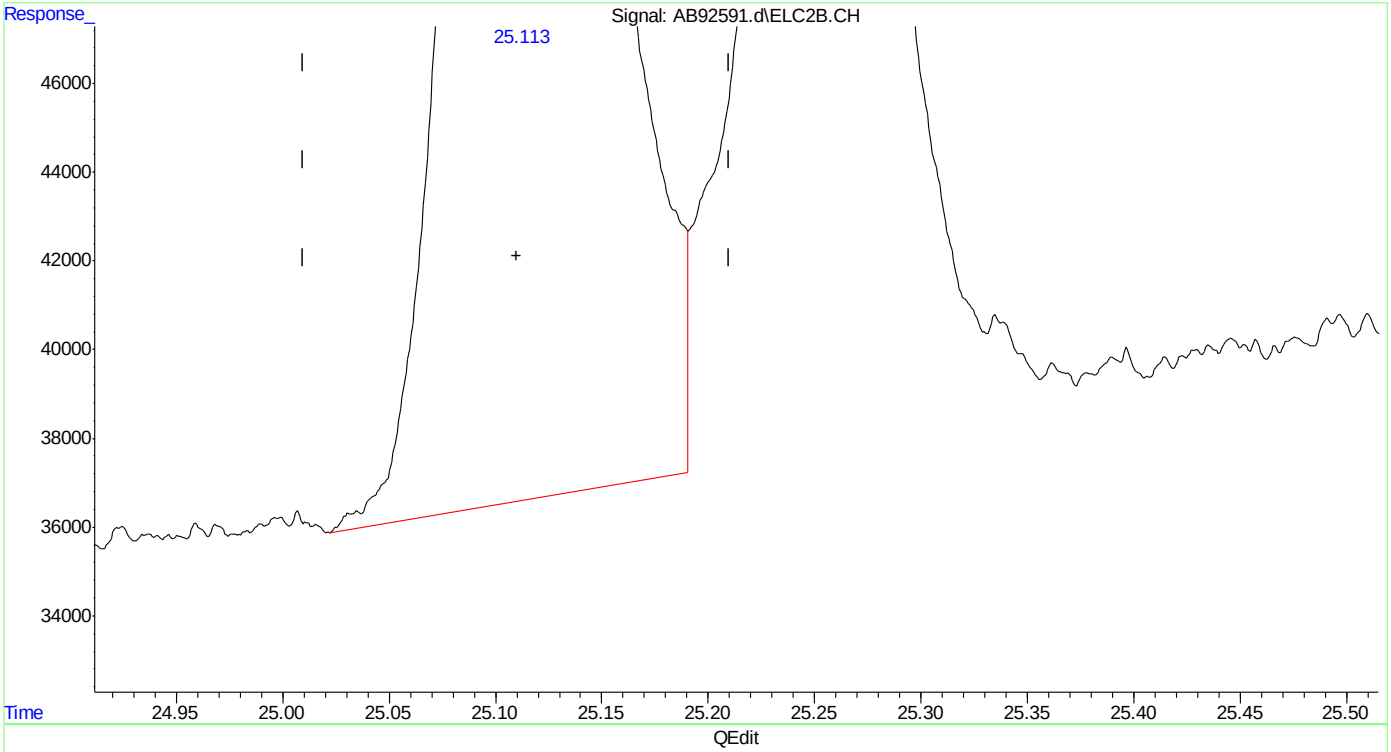
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:55 2016

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

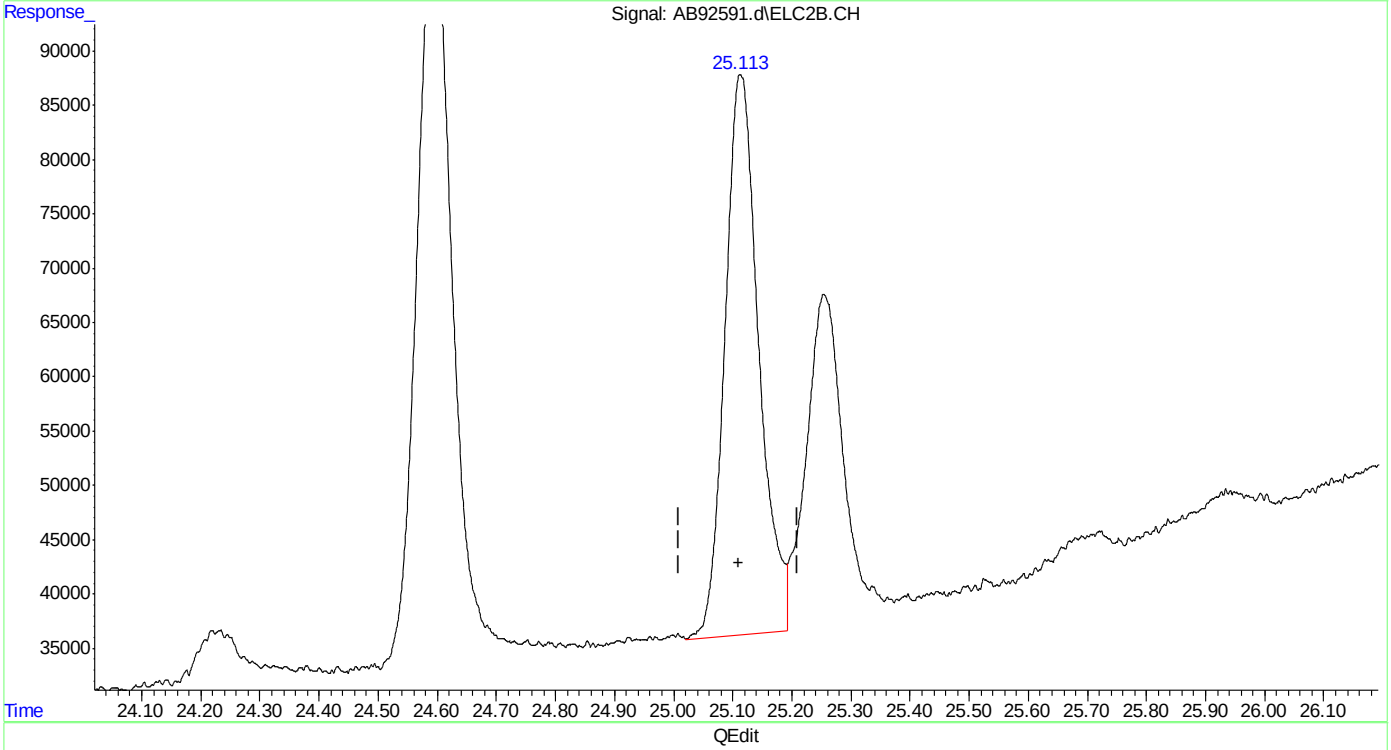
SGS ACCUTEST MC45538

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

SGS ACCUTEST MC45538

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

ab160112vphmaster.M Tue Jan 12 13:28:43 2016

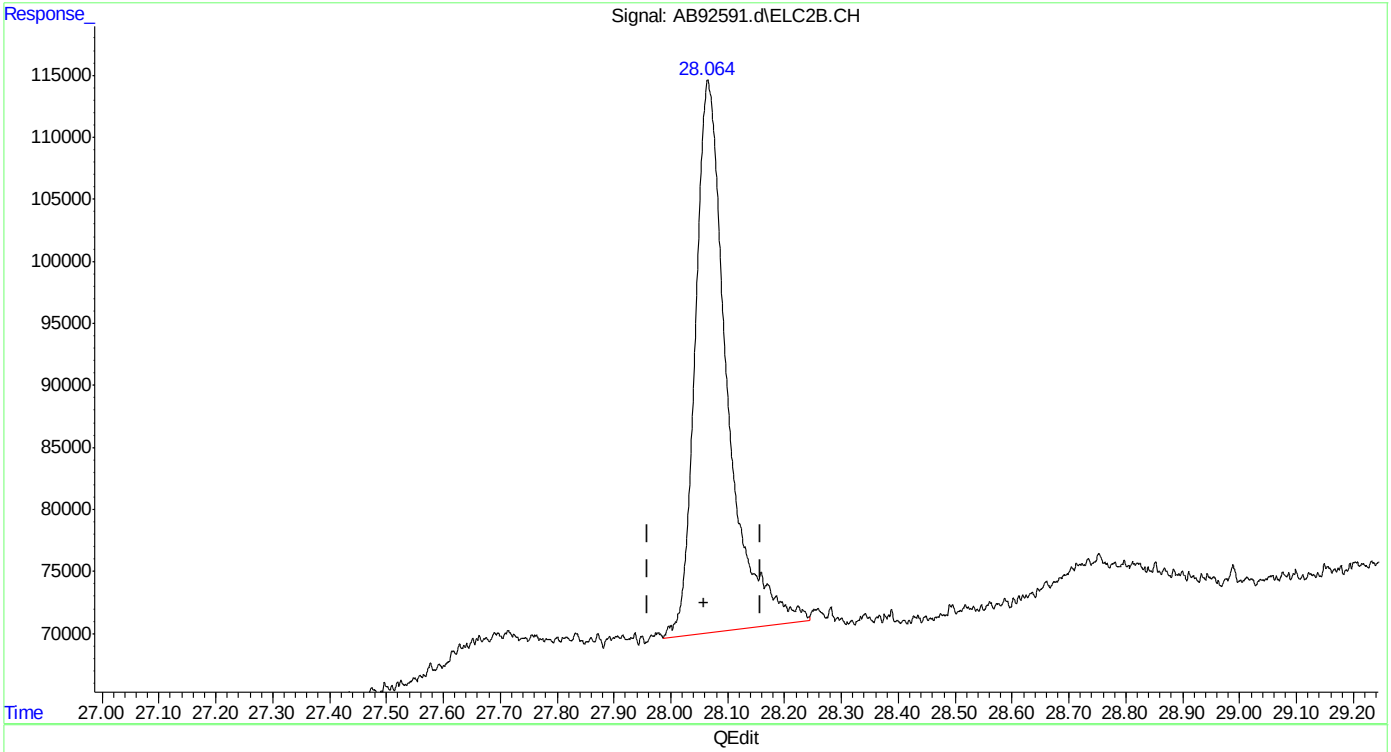
SGS ACCUTEST MC45538

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

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

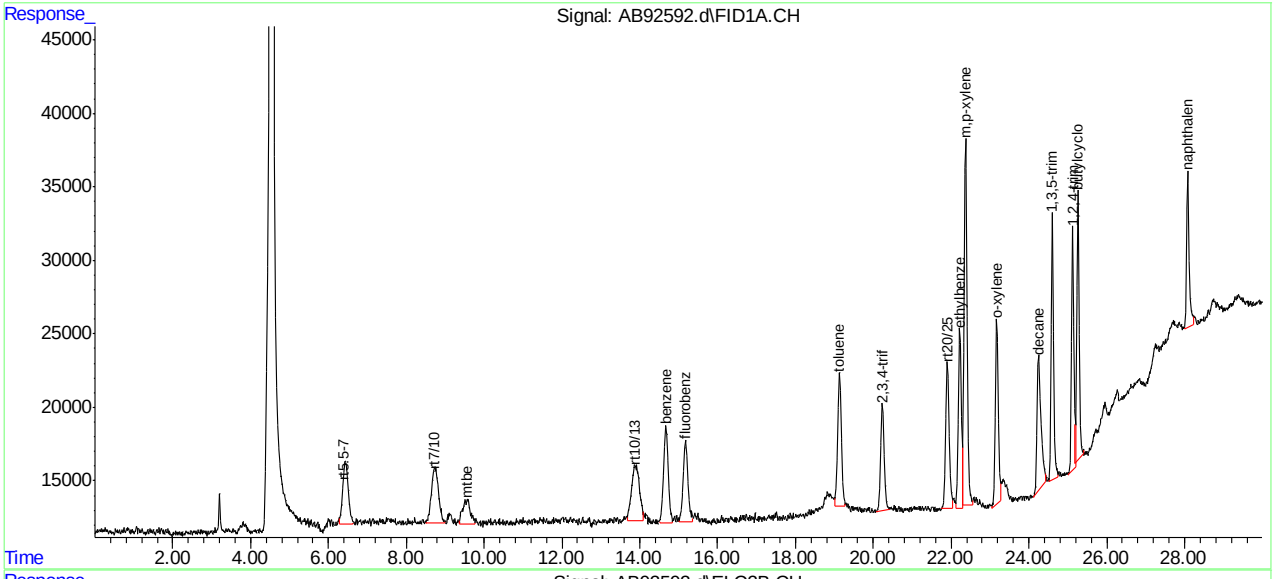
(f)=RT Delta > 1/2 Window (m)=manual int.

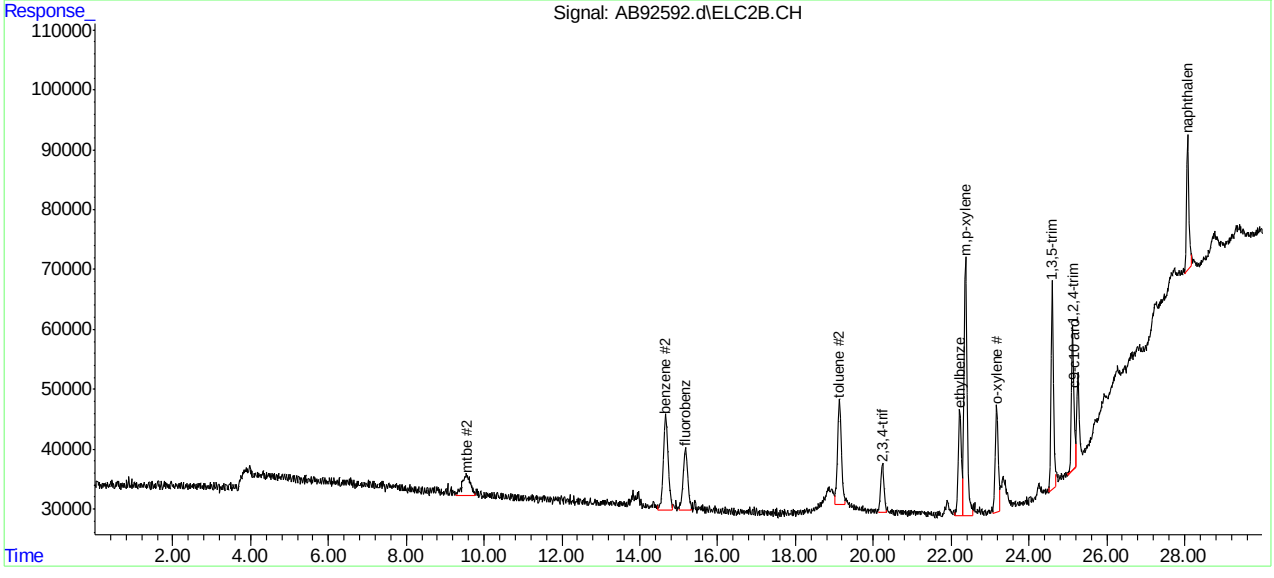
Quantitation Report (QT Reviewed)

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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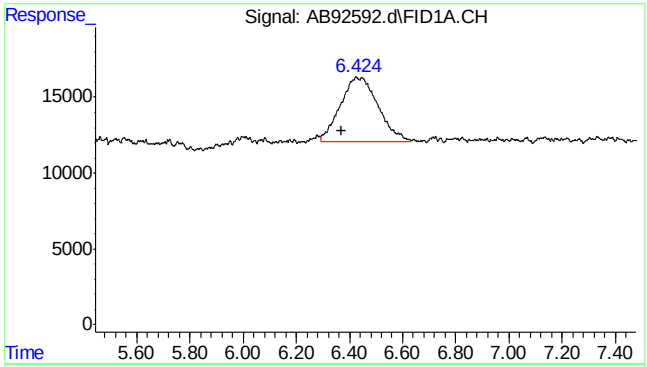
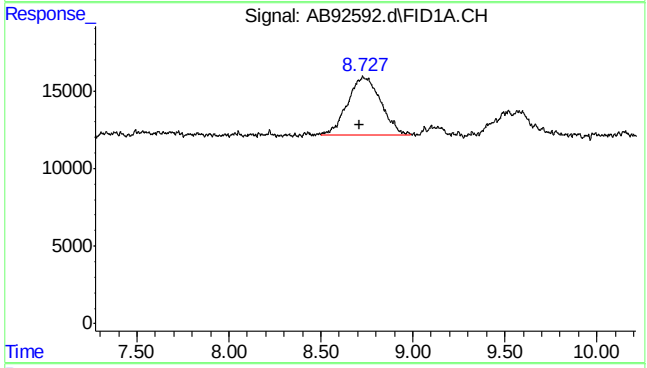


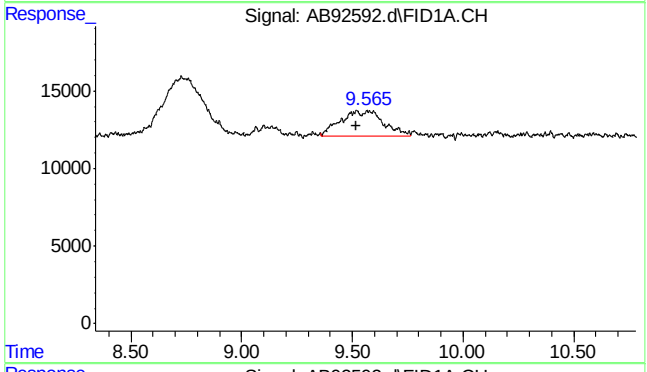
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 423417
Conc: 1.13 ppb m



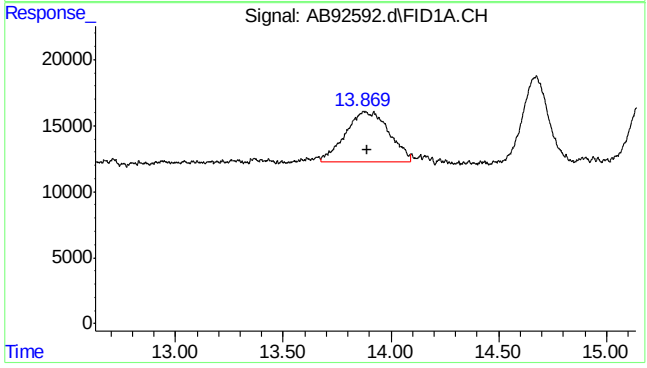
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 474249
Conc: 1.10 ppb m



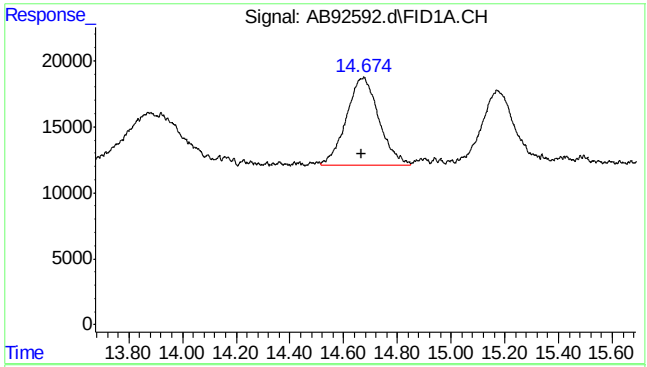
#3 mtbe

R.T.: 9.565 min
Delta R.T.: 0.047 min
Response: 222666
Conc: 1.01 ppb m



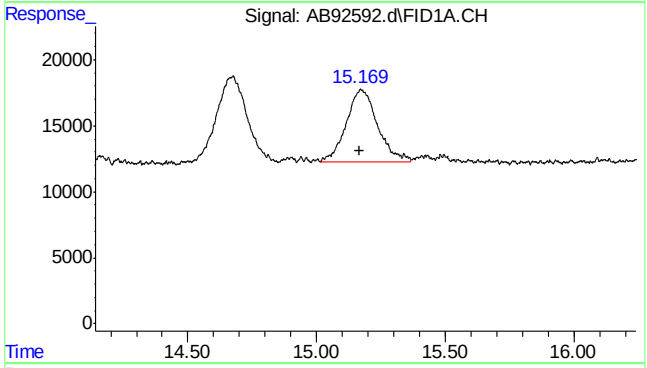
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 532157
Conc: 1.09 ppb m



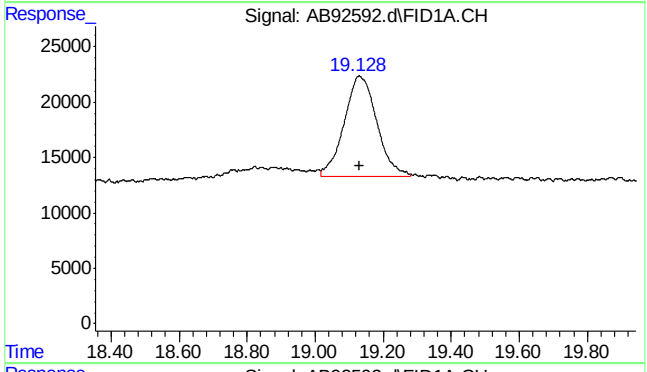
#5 benzene

R.T.: 14.674 min
Delta R.T.: 0.007 min
Response: 555388
Conc: 1.00 ppb m



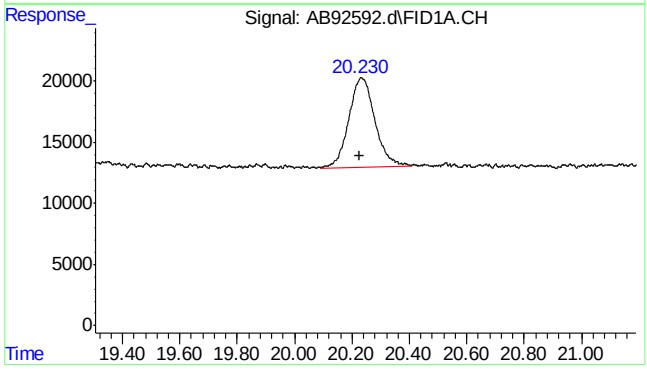
#6 fluorobenzene

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

7.4.9

7

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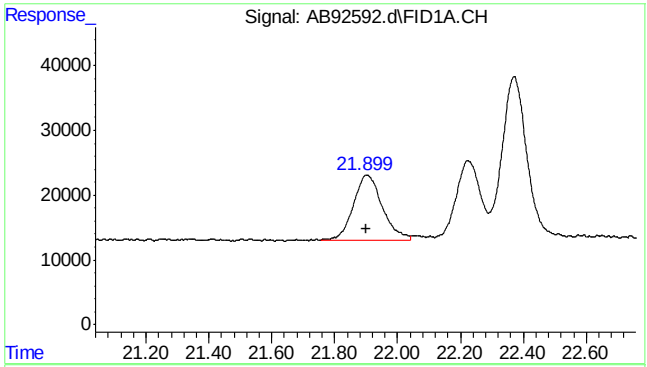
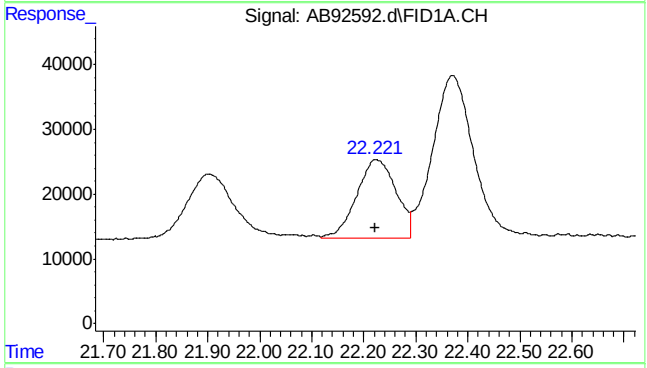


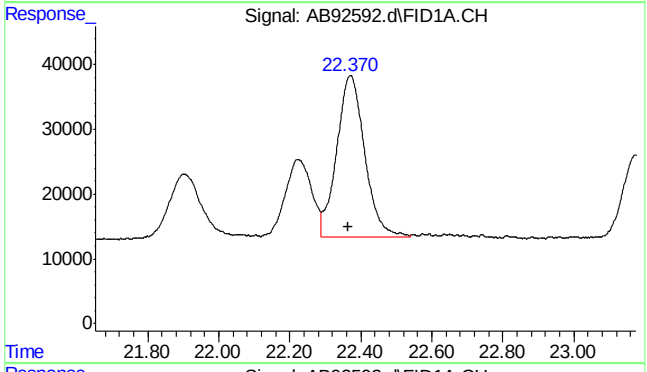
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 636900
Conc: 1.02 ppb m



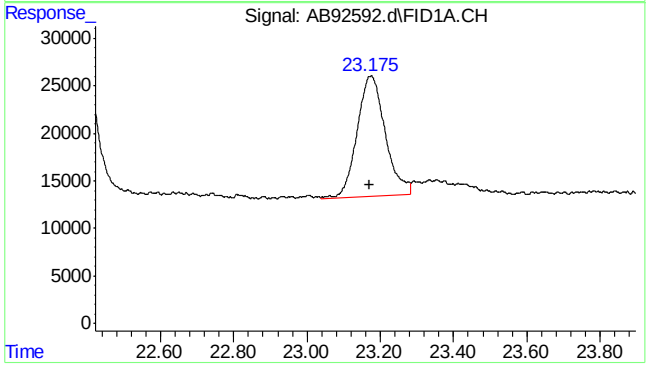
#13 ethylbenzene

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

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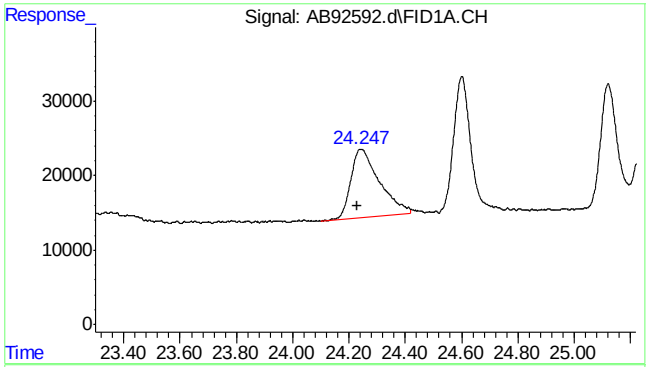
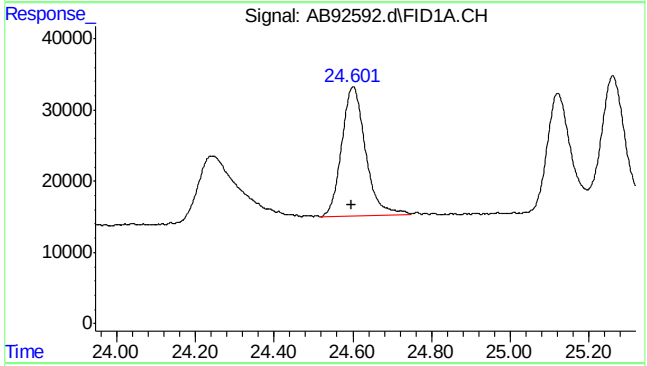


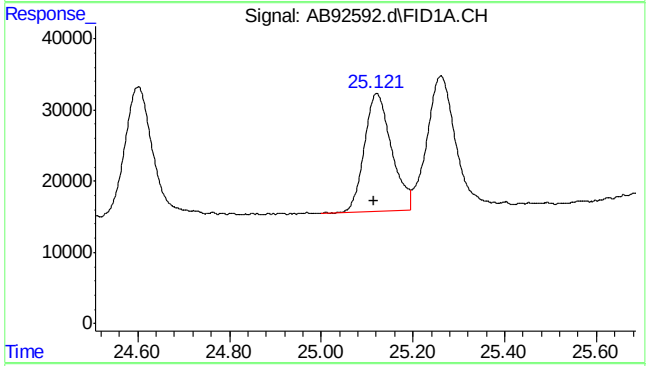
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 652274
Conc: 1.02 ppb m



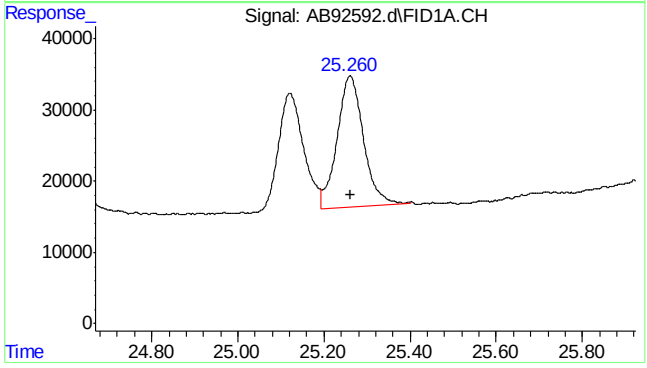
#17 1,3,5-trimethylbenzene

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



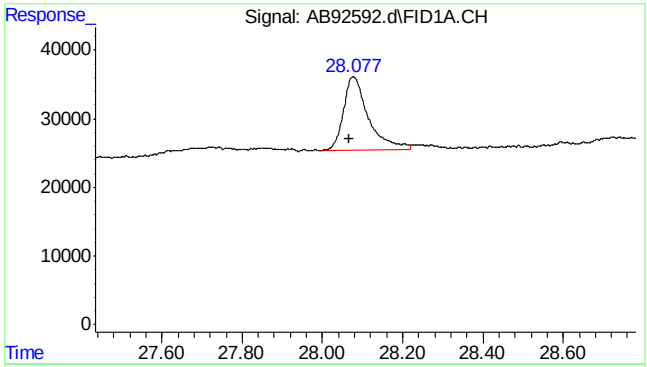
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 784280
Conc: 1.14 ppb m

7.4.9

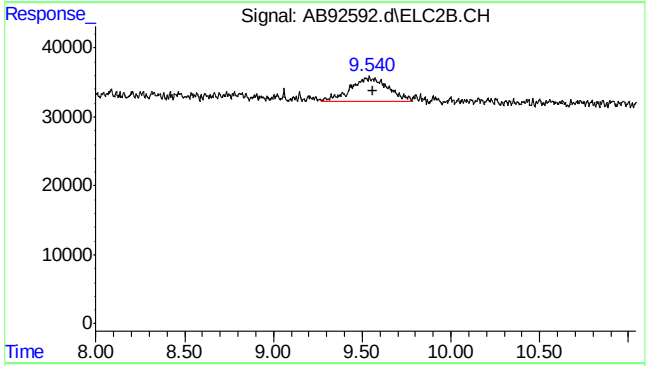
7

SGS ACCUTEST MC45538



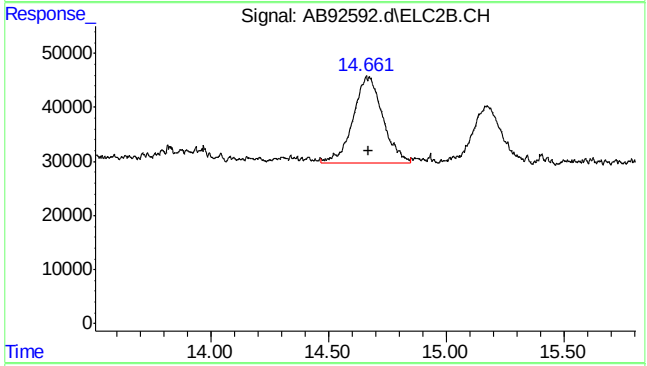
#20 naphthalene

R.T.: 28.077 min
Delta R.T.: 0.009 min
Response: 459832
Conc: 1.20 ppb m



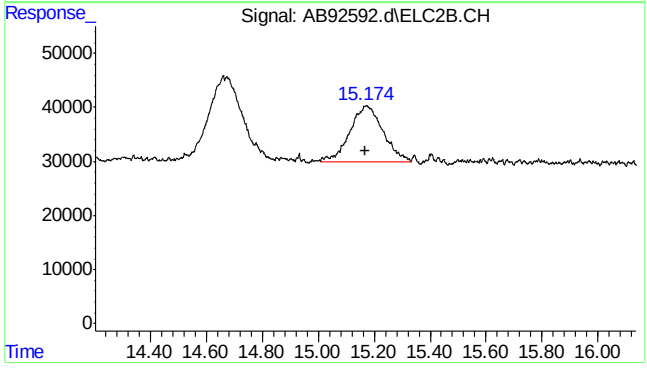
#23 mtbe #2

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



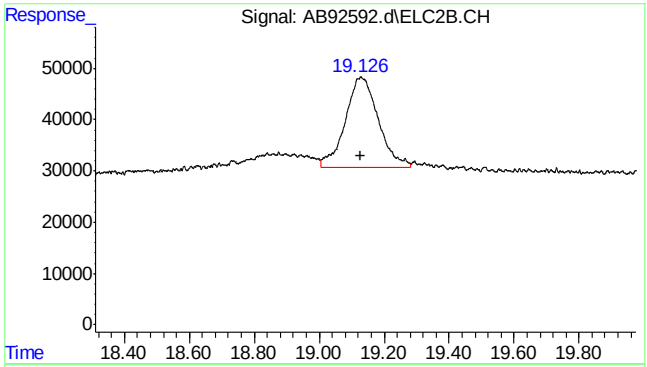
#25 fluorobenzene #2

R.T.: 15.174 min
Delta R.T.: 0.007 min
Response: 871999
Conc: 1.00 ppb m

7.4.9

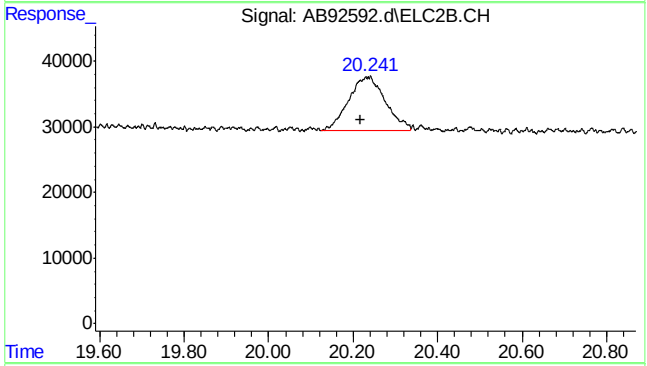
7

SGS ACCUTEST MC45538



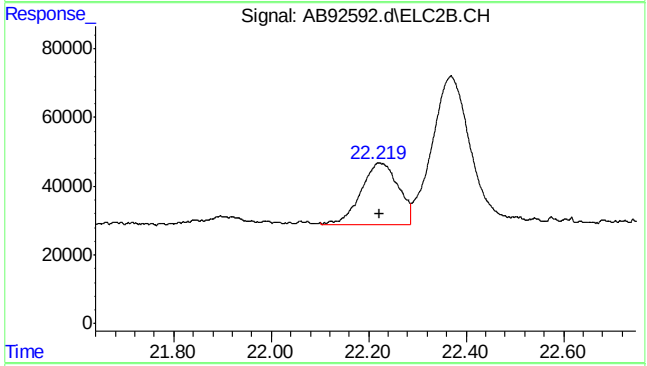
#26 toluene #2

R.T.: 19.126 min
Delta R.T.: 0.000 min
Response: 1234262
Conc: 1.00 ppb m



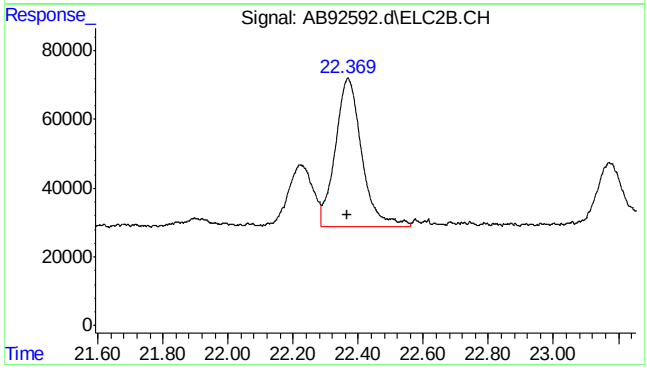
#27 2,3,4-trifluorotoluene #2

R.T.: 20.241 min
Delta R.T.: 0.023 min
Response: 500356
Conc: 1.04 ppb m



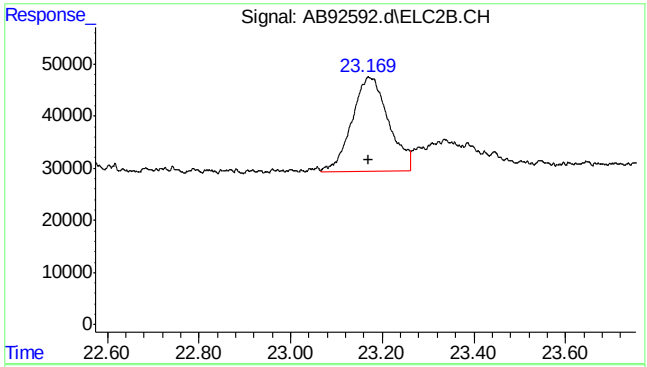
#28 ethylbenzene #2

R.T.: 22.219 min
Delta R.T.: -0.004 min
Response: 964169
Conc: 0.98 ppb m



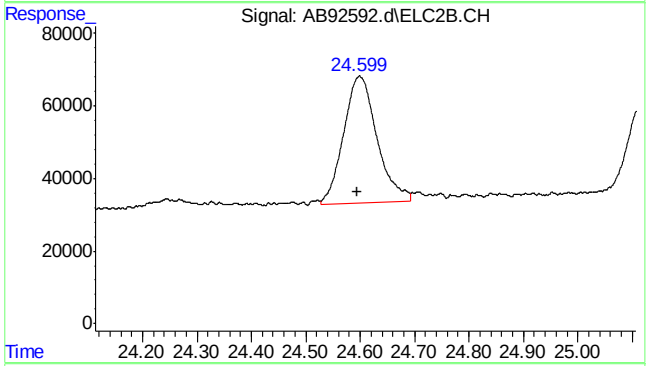
#29 m,p-xylene #2

R.T.: 22.369 min
Delta R.T.: 0.004 min
Response: 2432291
Conc: 2.00 ppb m



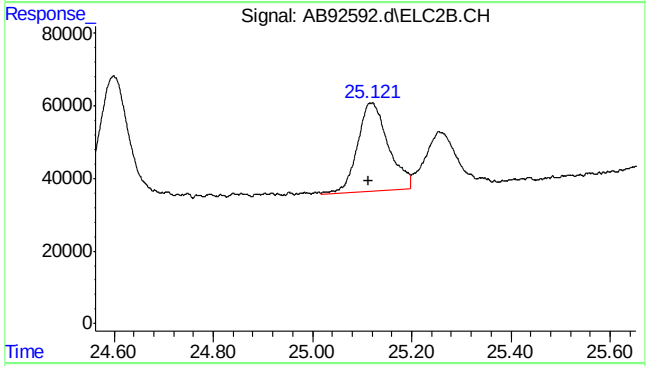
#30 o-xylene #2

R.T.: 23.170 min
Delta R.T.: 0.000 min
Response: 1005511
Conc: 1.00 ppb



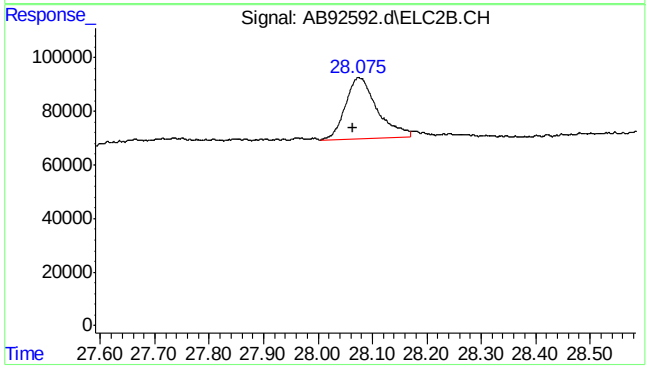
#31 1,3,5-trimethylbenzene #2

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

7.4.9

7

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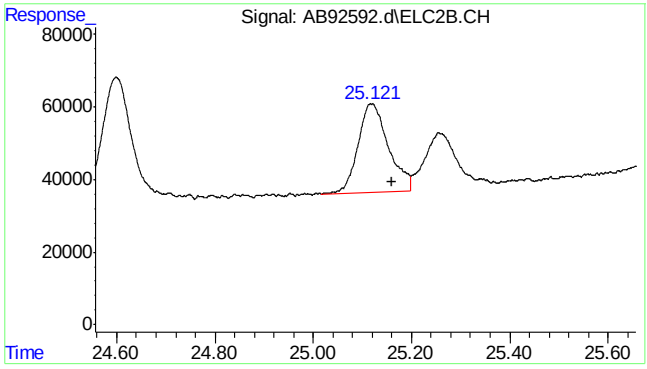


#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.160 min
Delta R.T.:	0.000 min
Response:	1056385
Conc:	1.00 ppb m

7.4.9

7

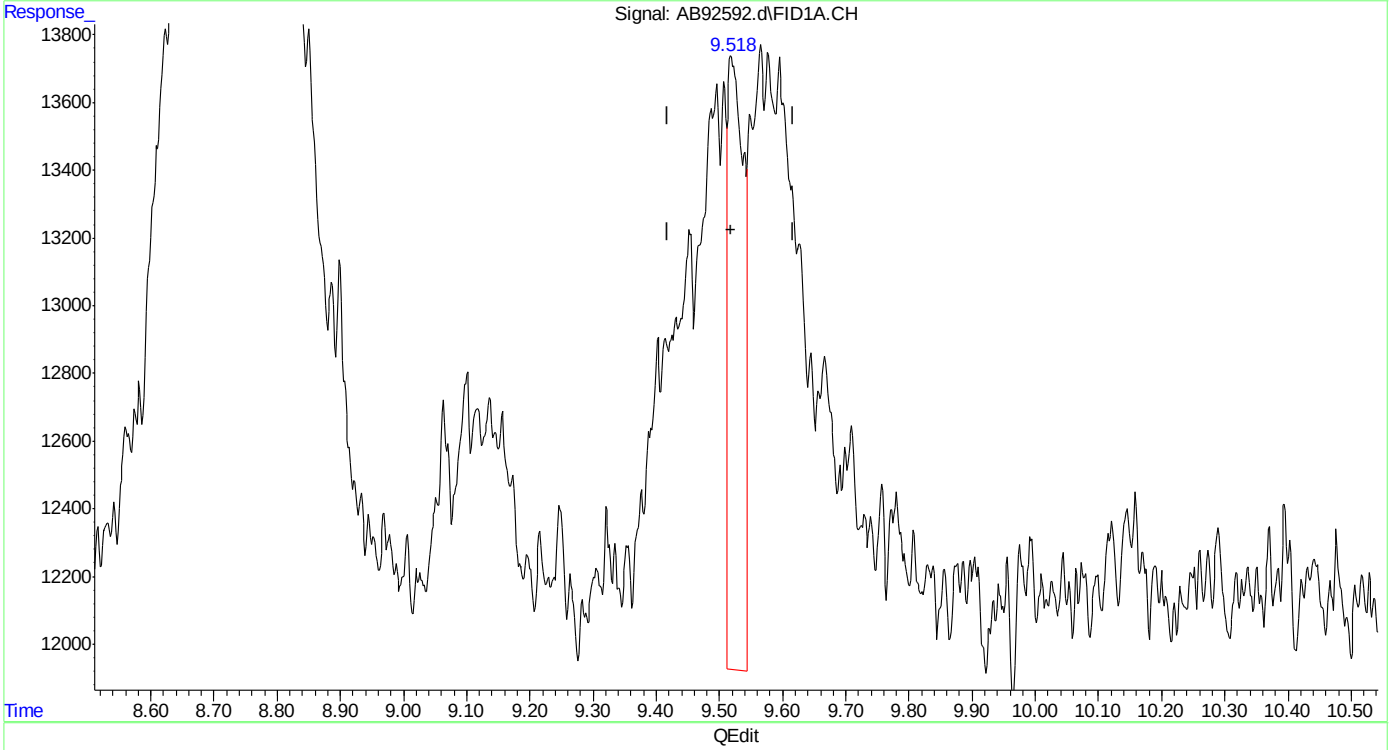
SGS ACCUTEST MC45538

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

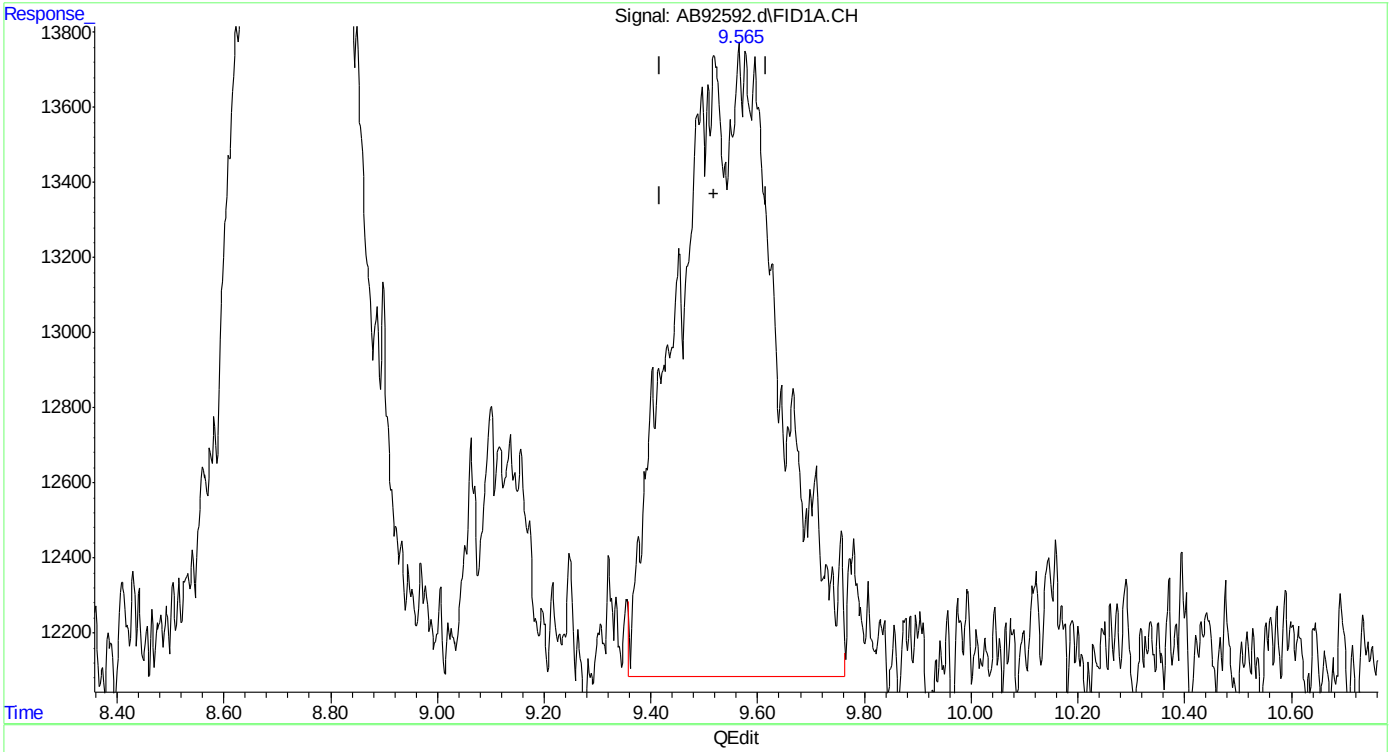
(+) = Expected Retention Time

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

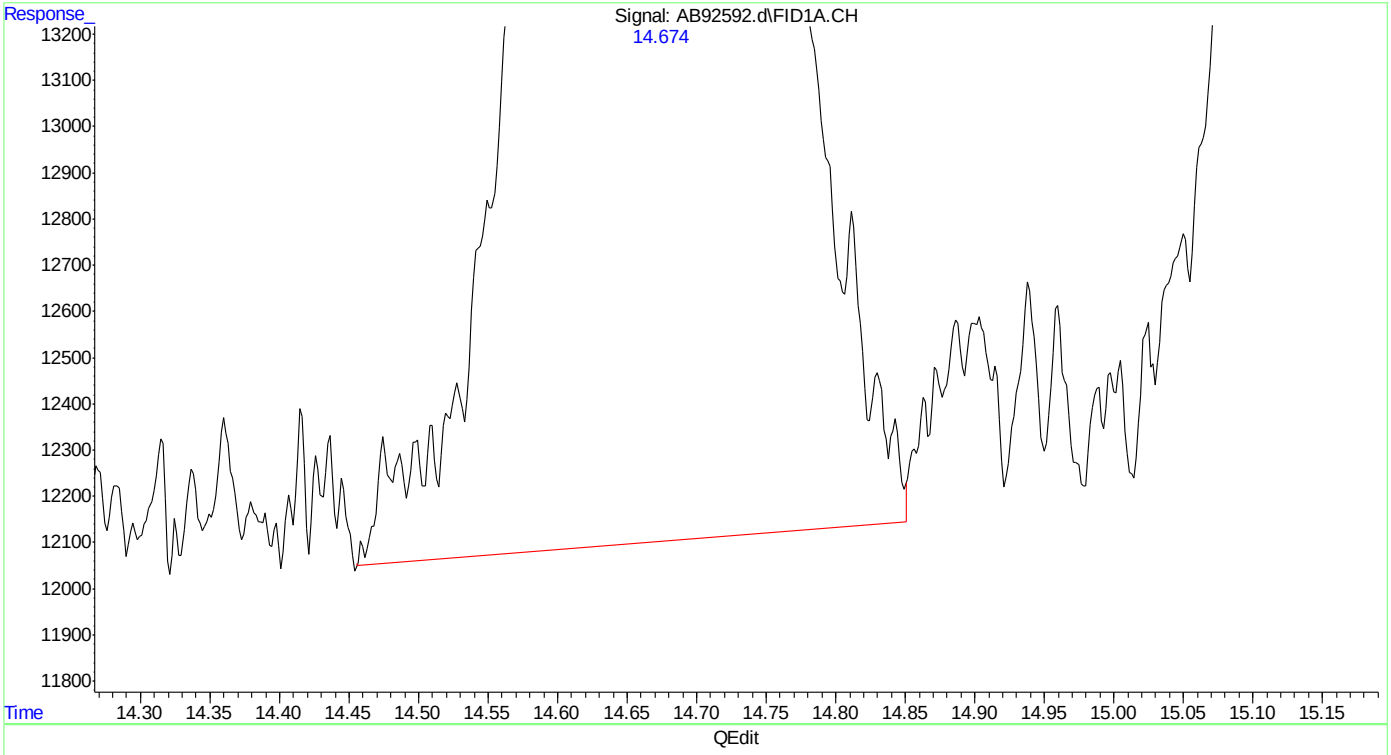
SGS ACCUTEST MC45538

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

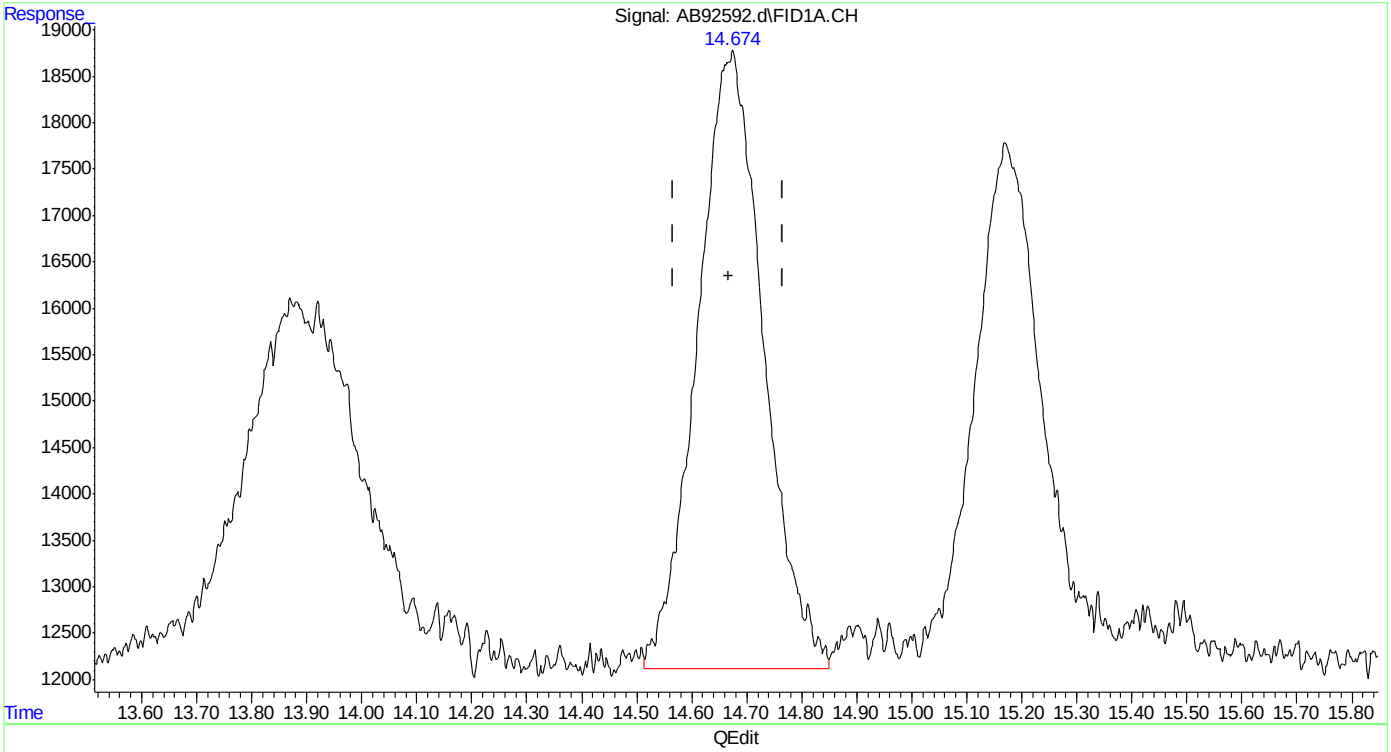
SGS ACCUTEST MC45538

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

SGS ACCUTEST MC45538

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

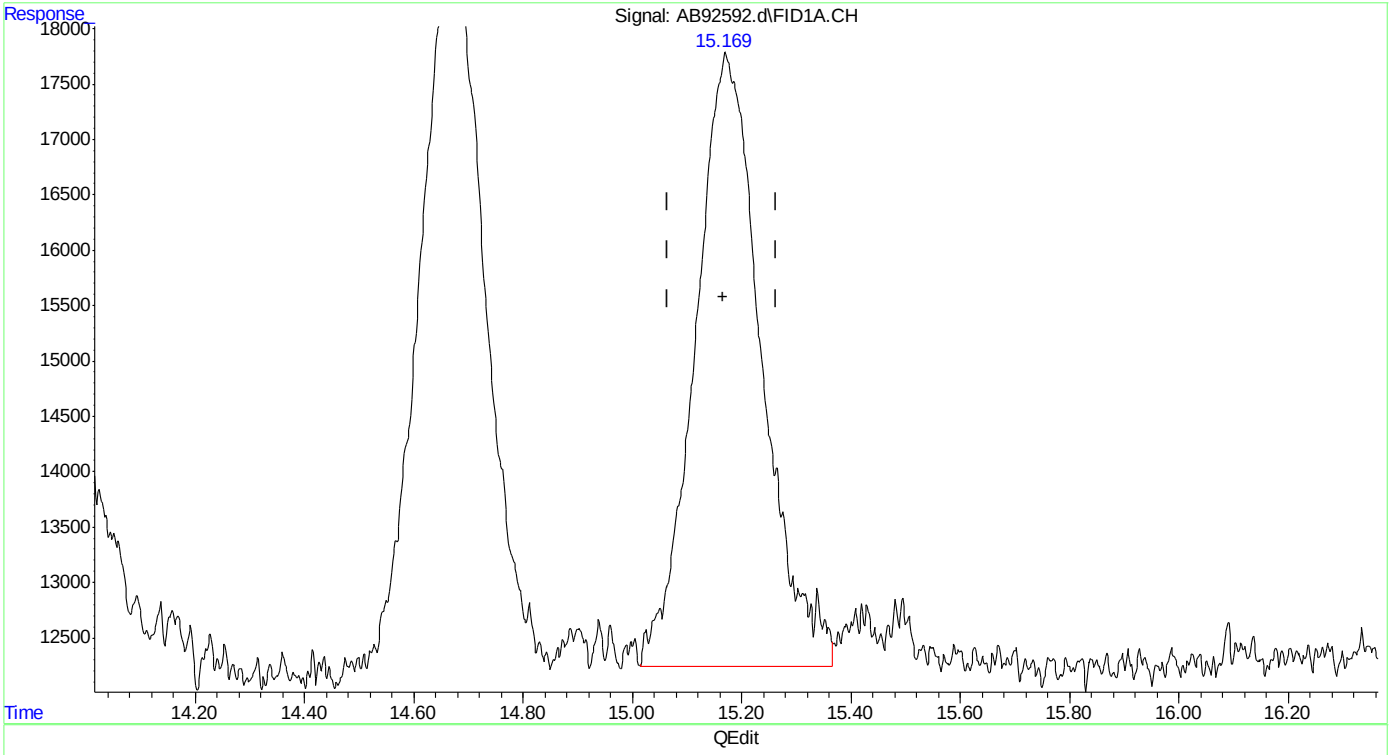
SGS ACCUTEST MC45538

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

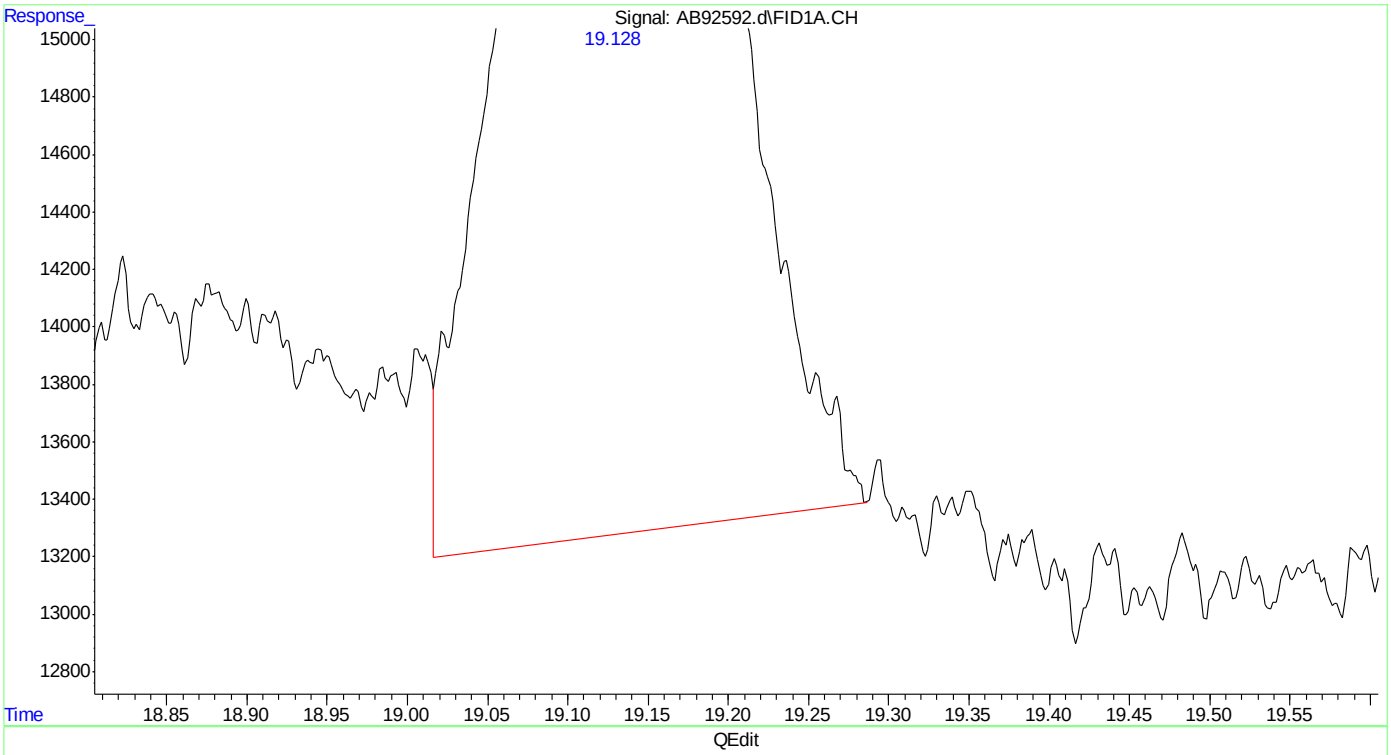
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:58:03 2016

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

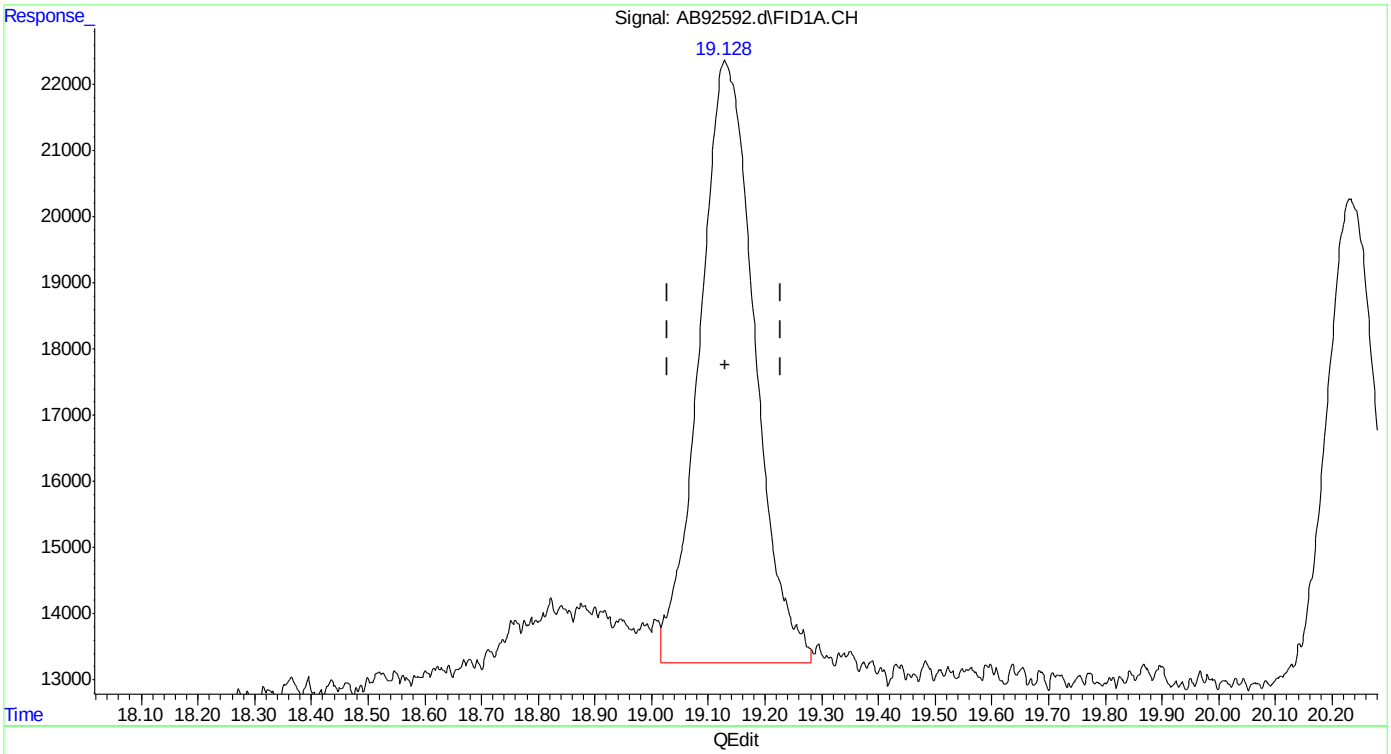
(+) = Expected Retention Time

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

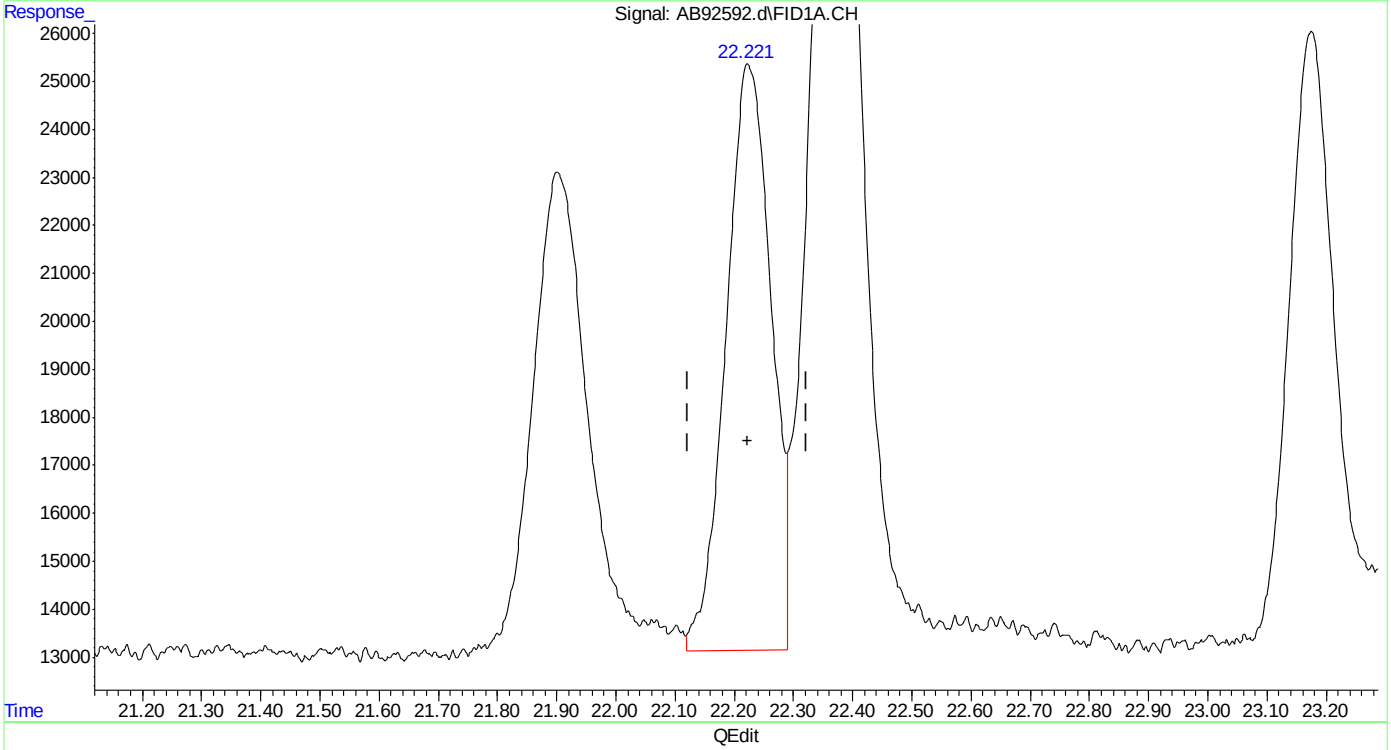
(+) = Expected Retention Time

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

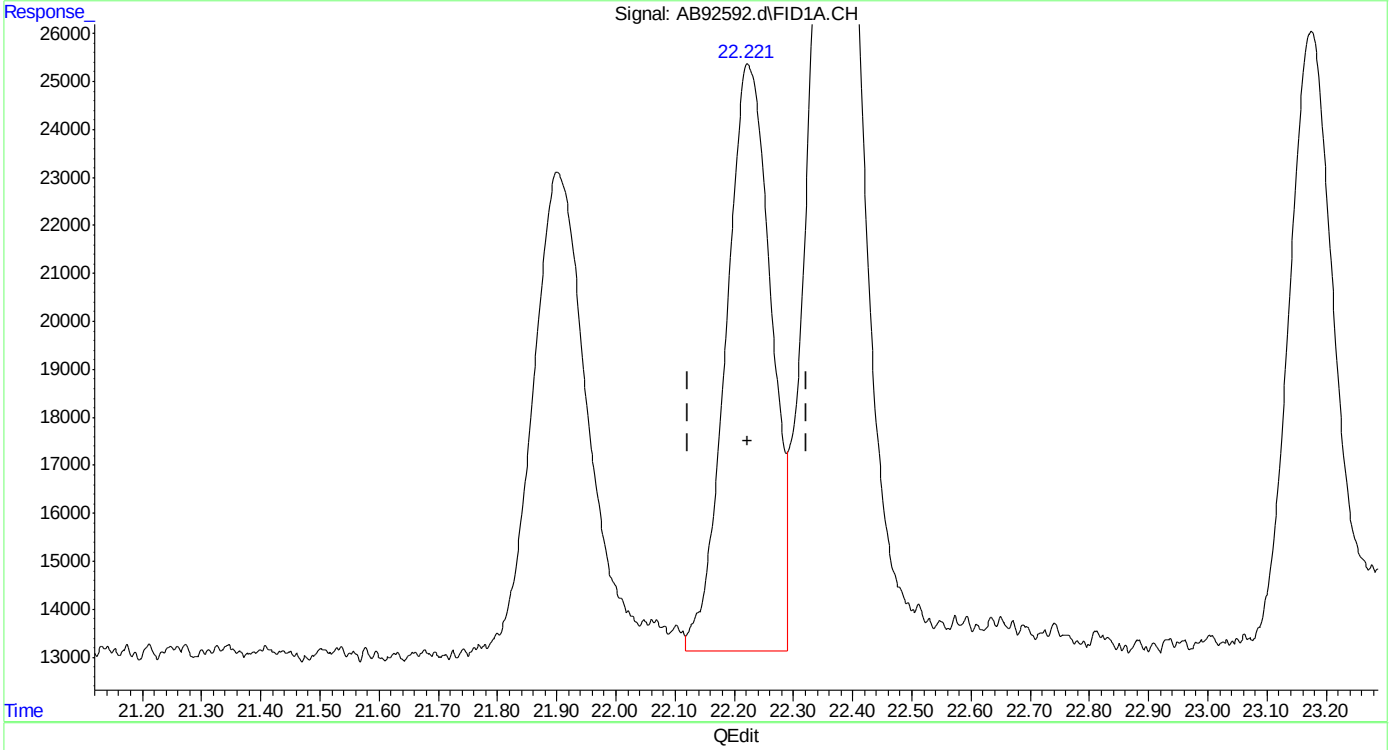
(+) = Expected Retention Time

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

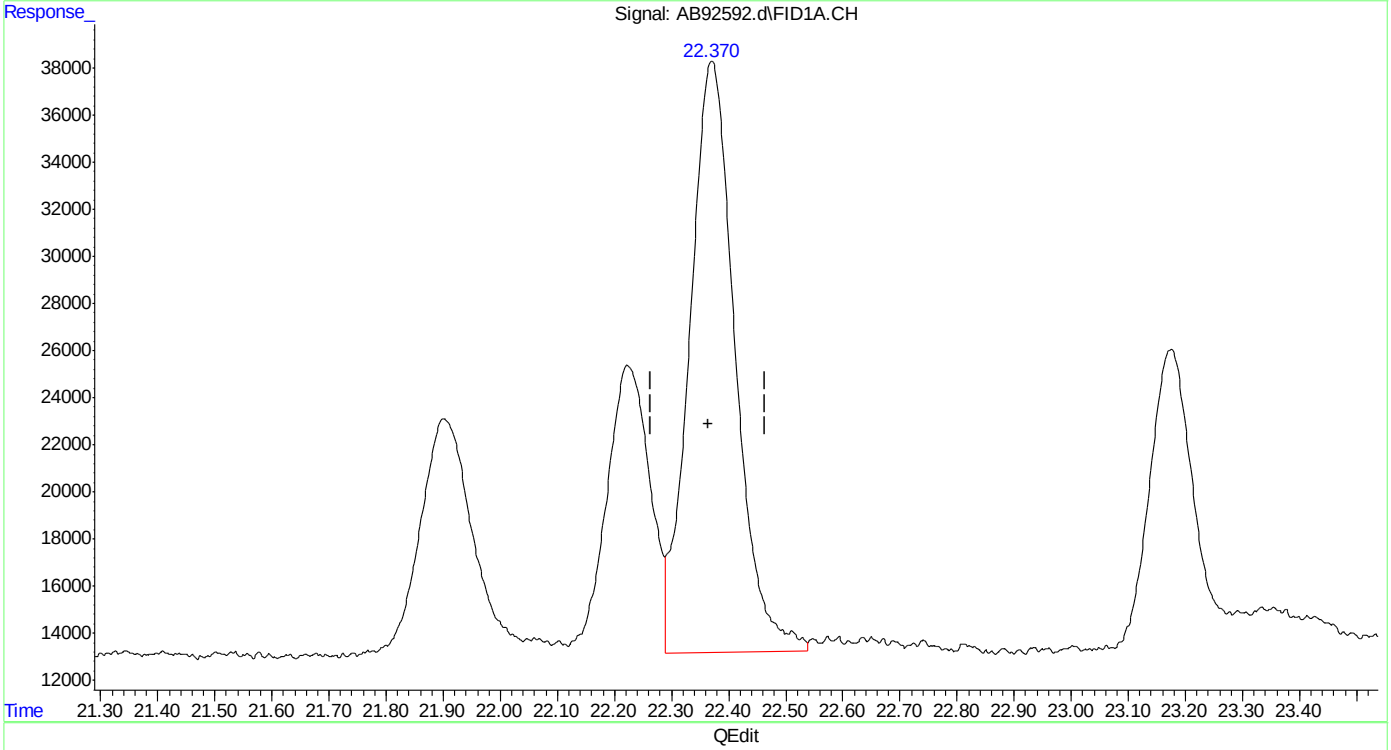
SGS ACCUTEST MC45538

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

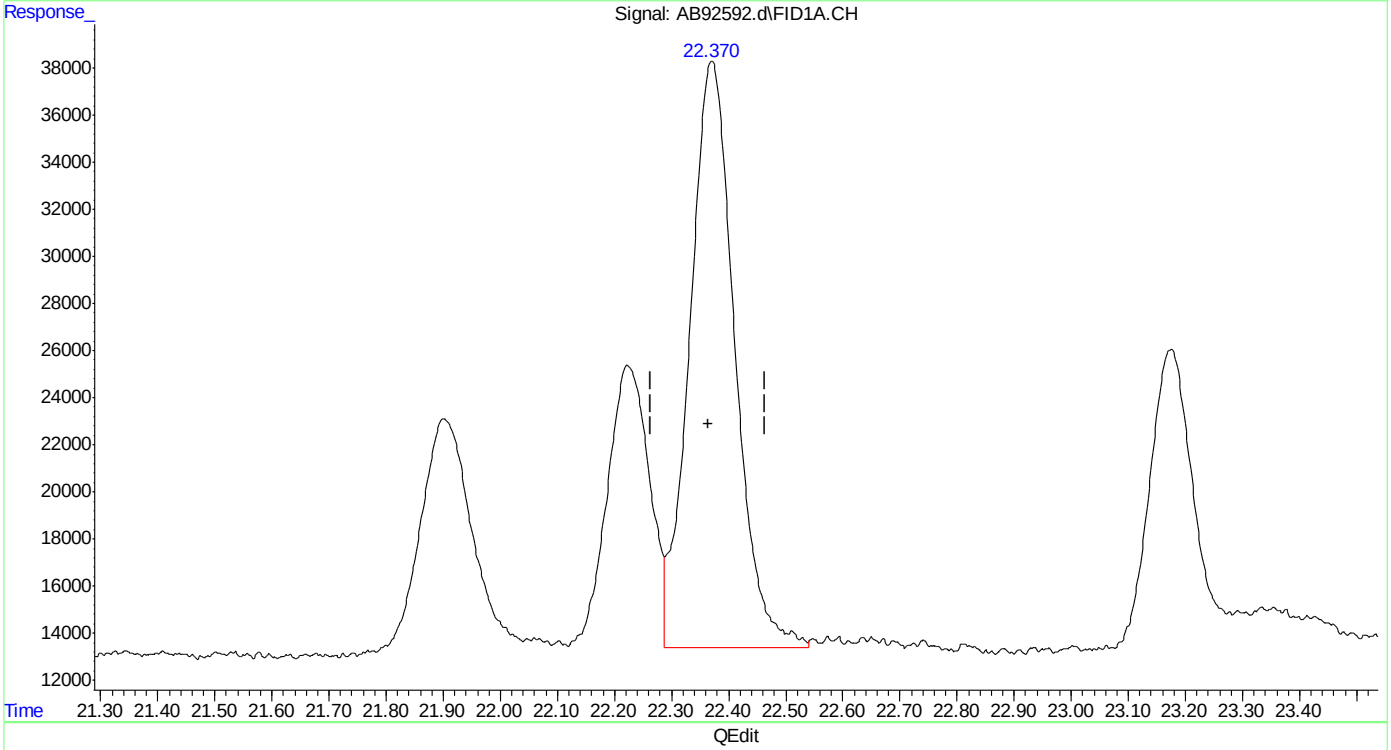
(+) = Expected Retention Time

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

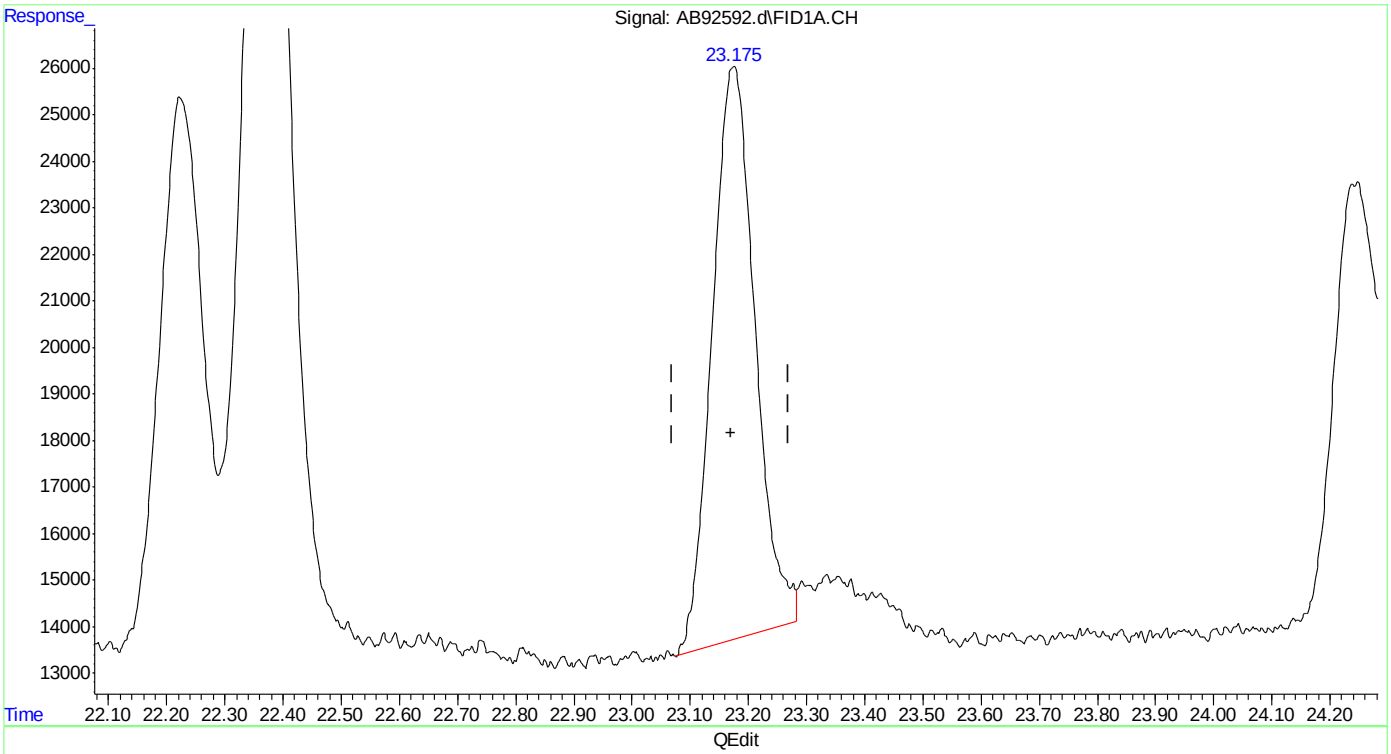
(+) = Expected Retention Time

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

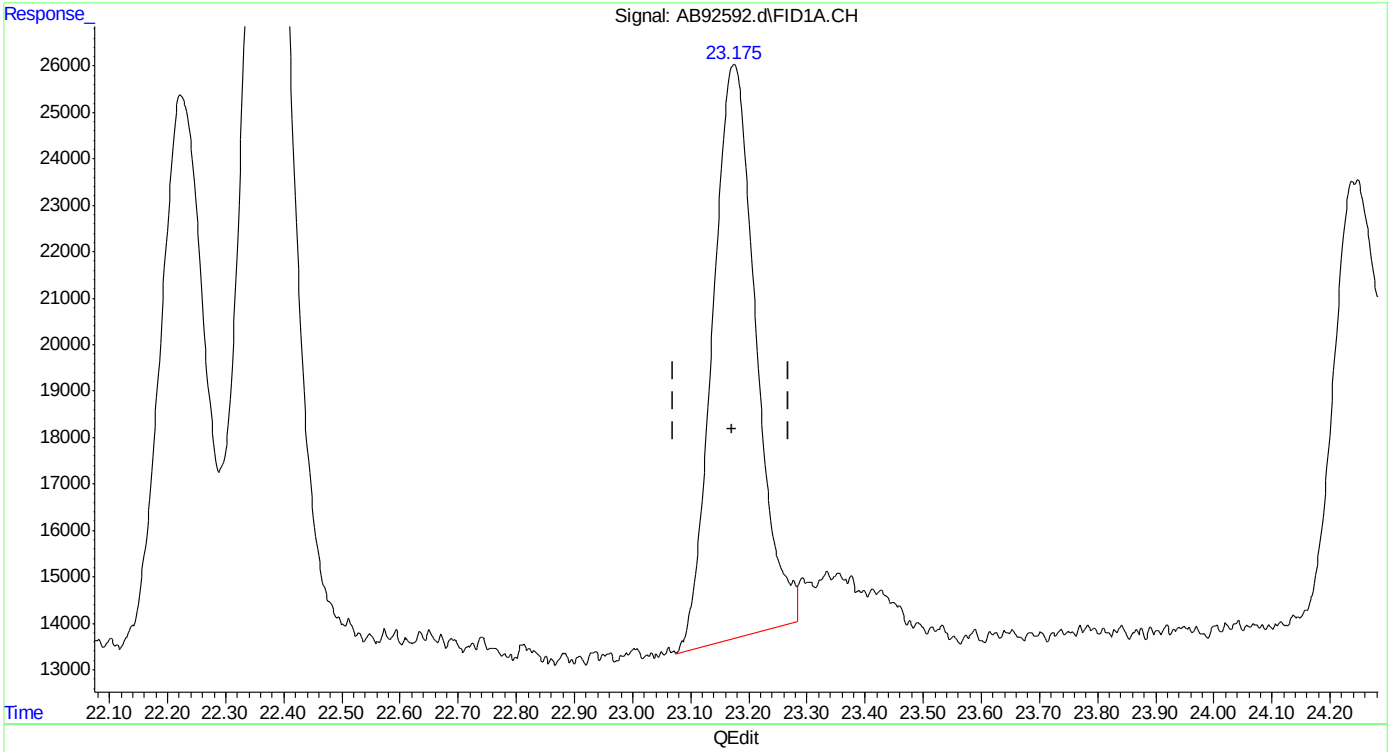
SGS ACCUTEST MC45538

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

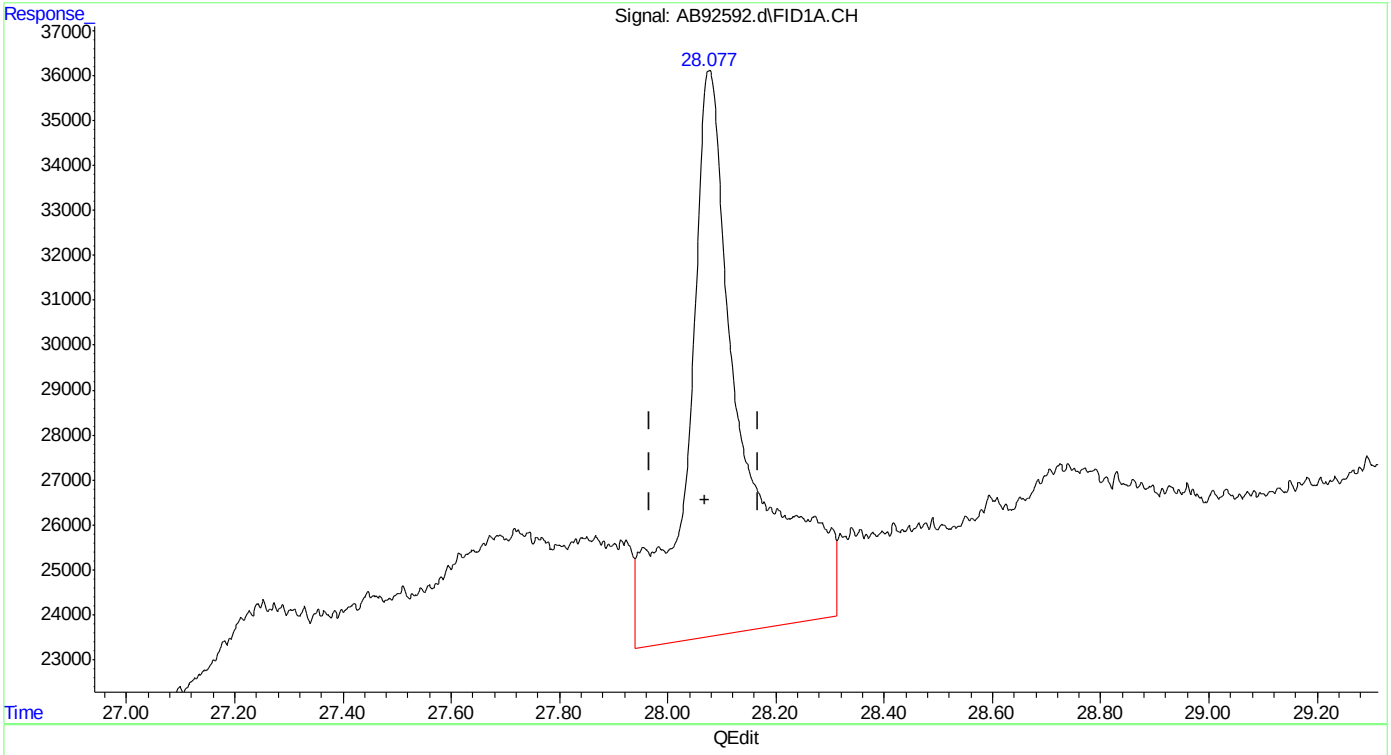
(+) = Expected Retention Time

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

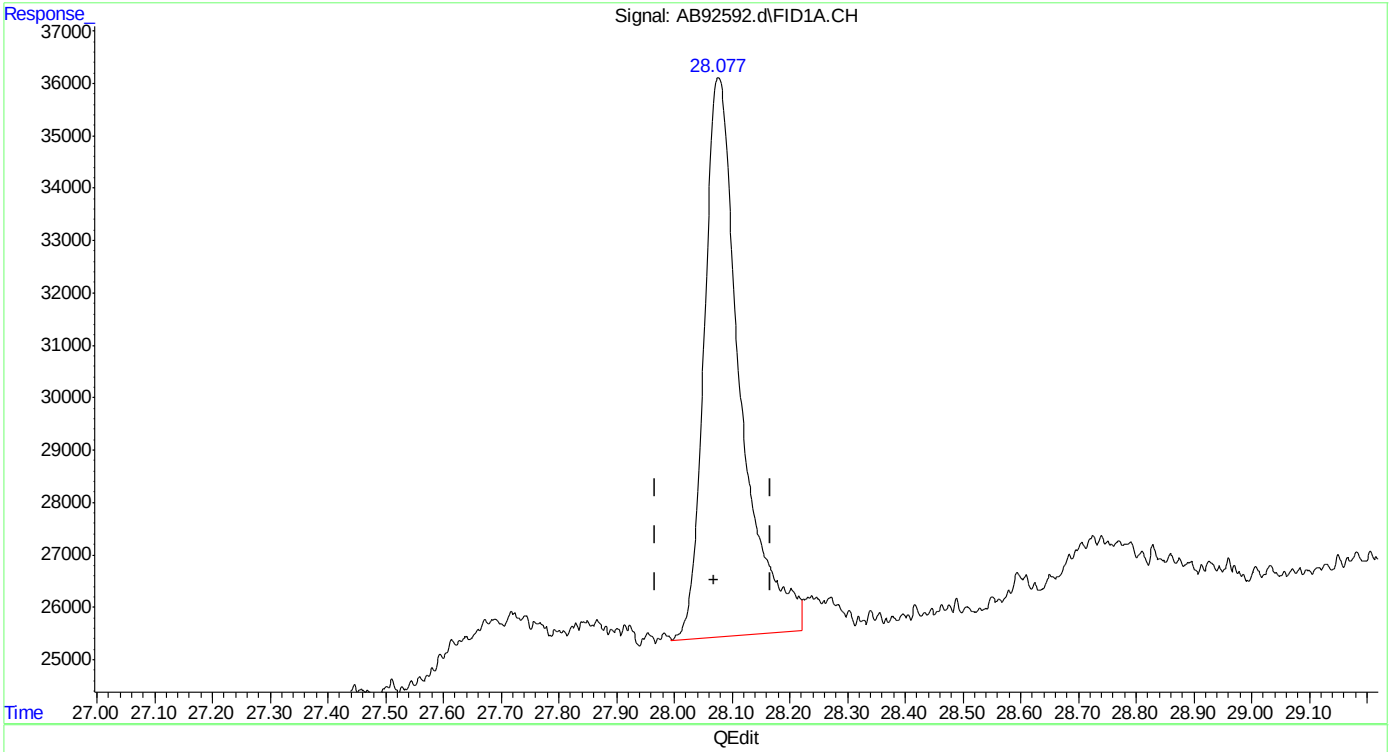
(+) = Expected Retention Time

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

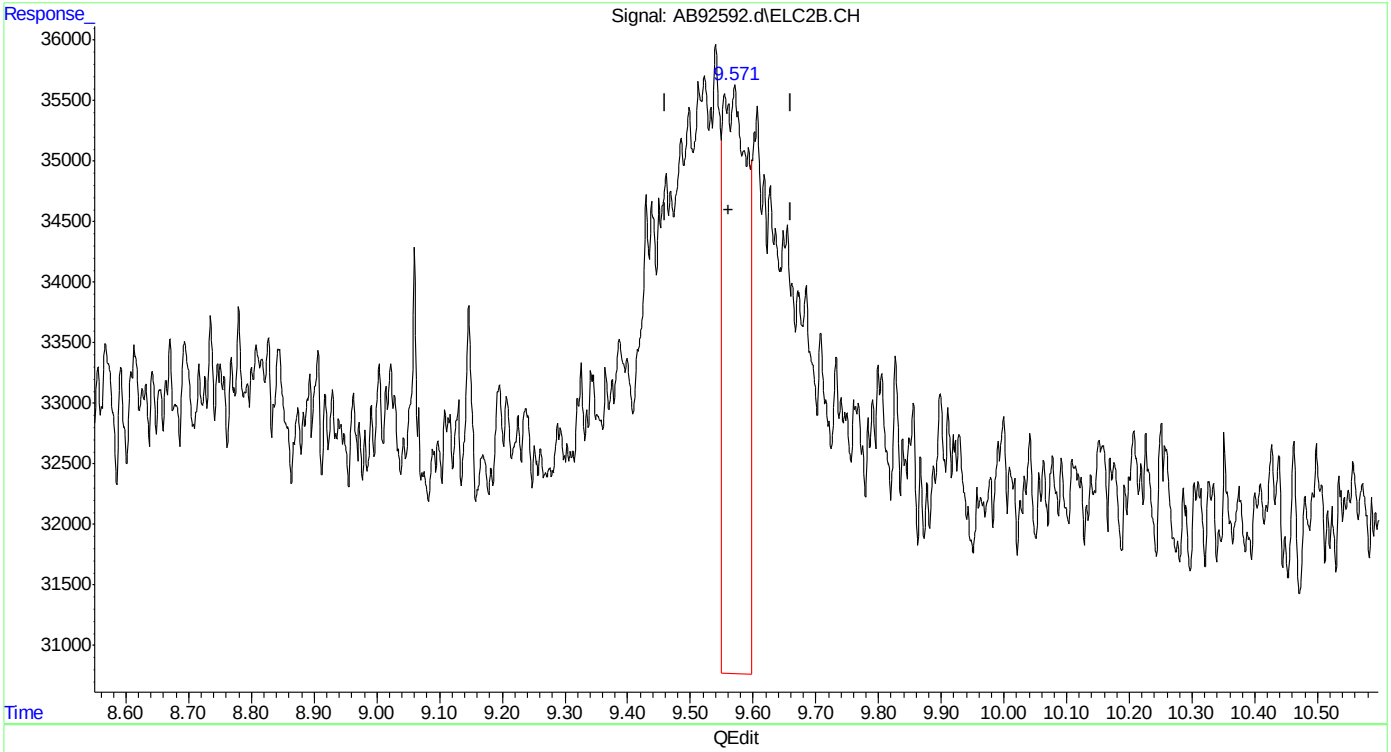
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:00:40 2016

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

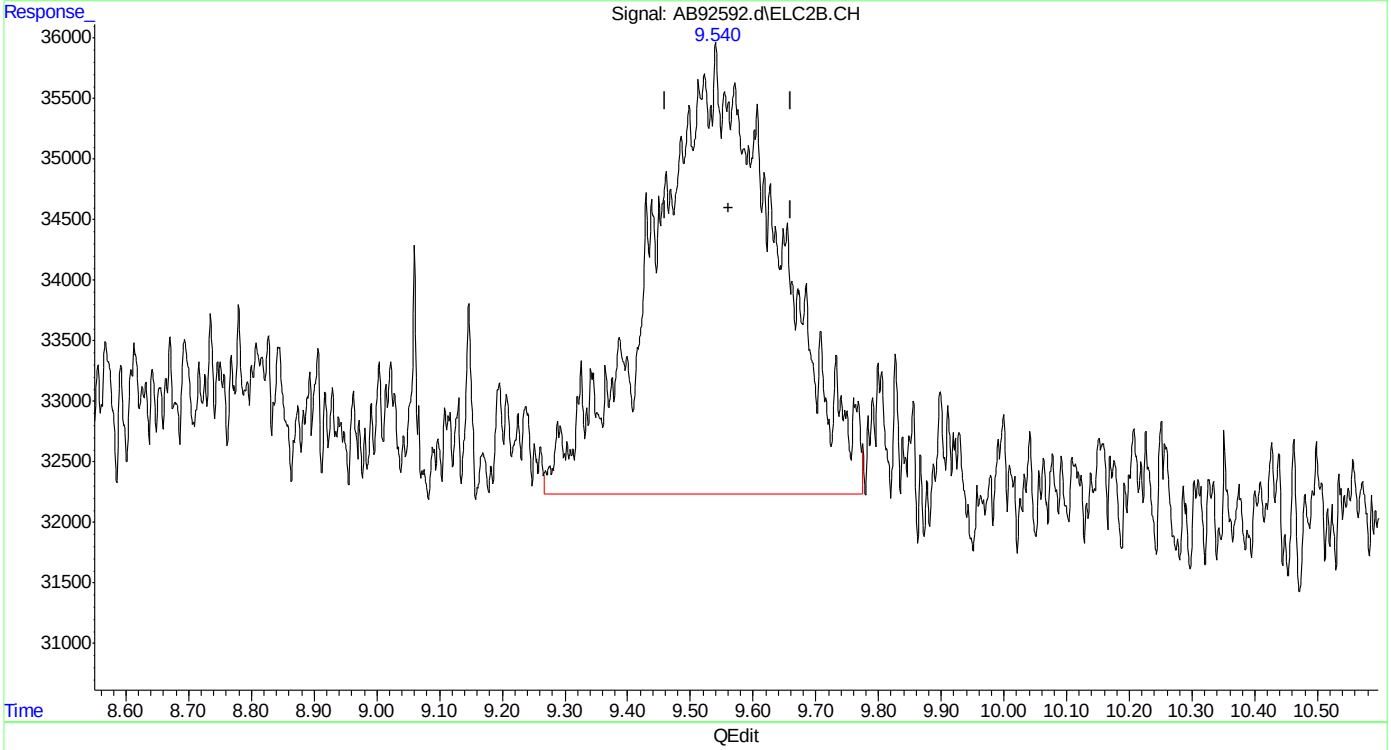
(+) = Expected Retention Time

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

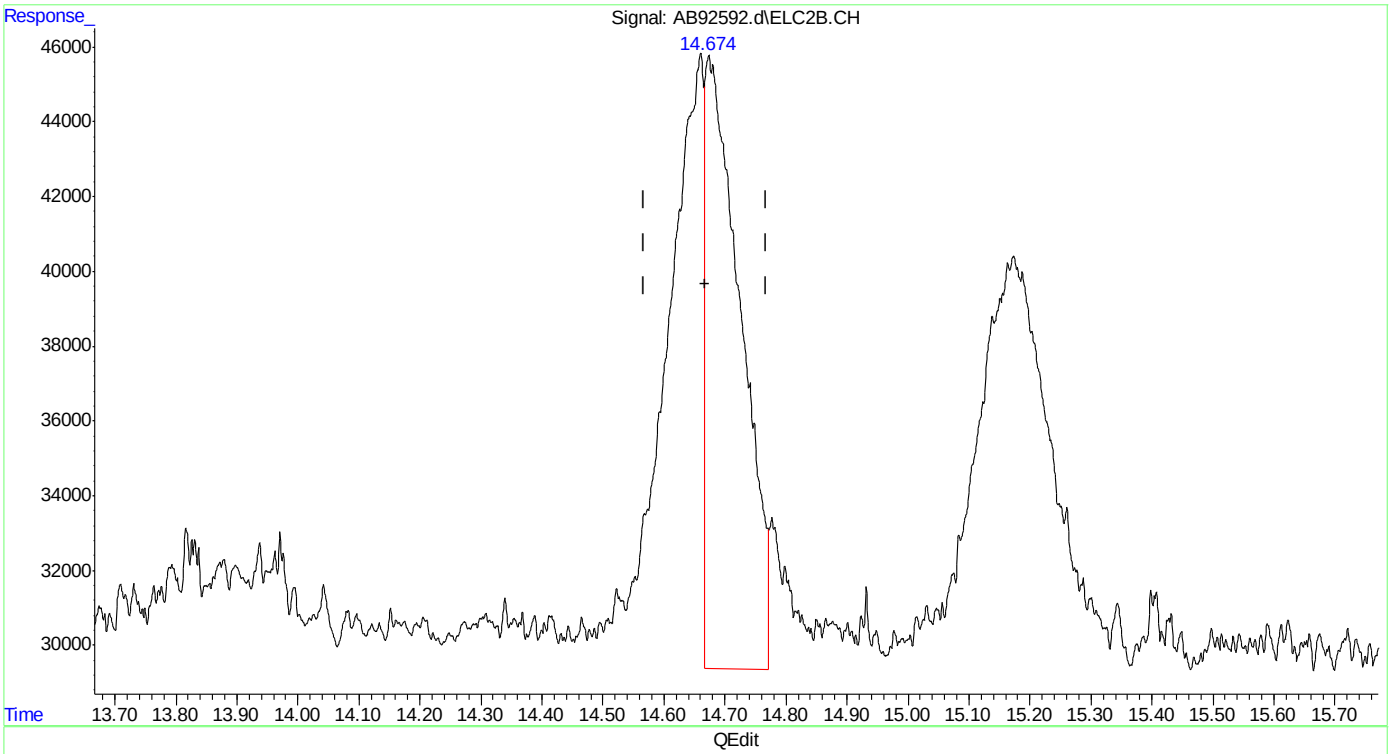
(+) = Expected Retention Time

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

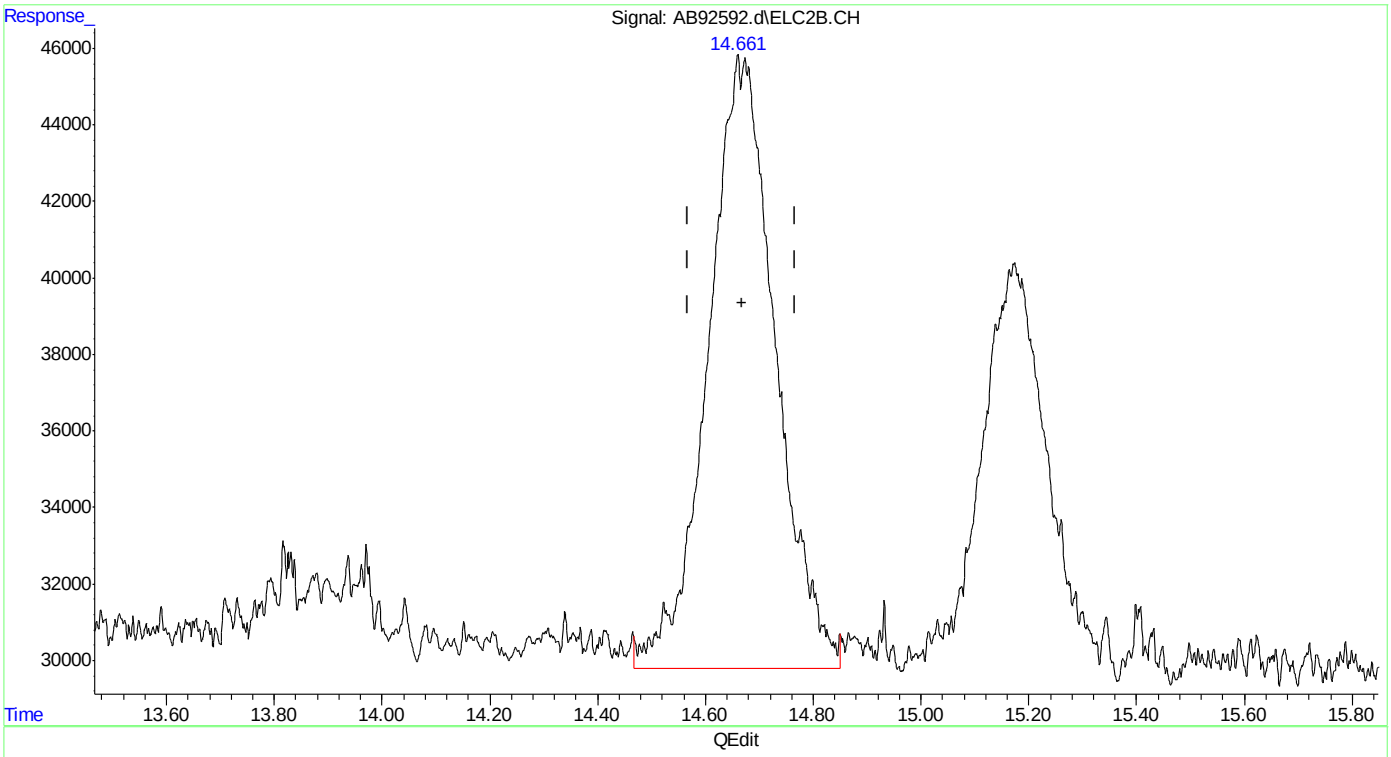
ab160112vphmaster.M Tue Jan 12 14:01:00 2016

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

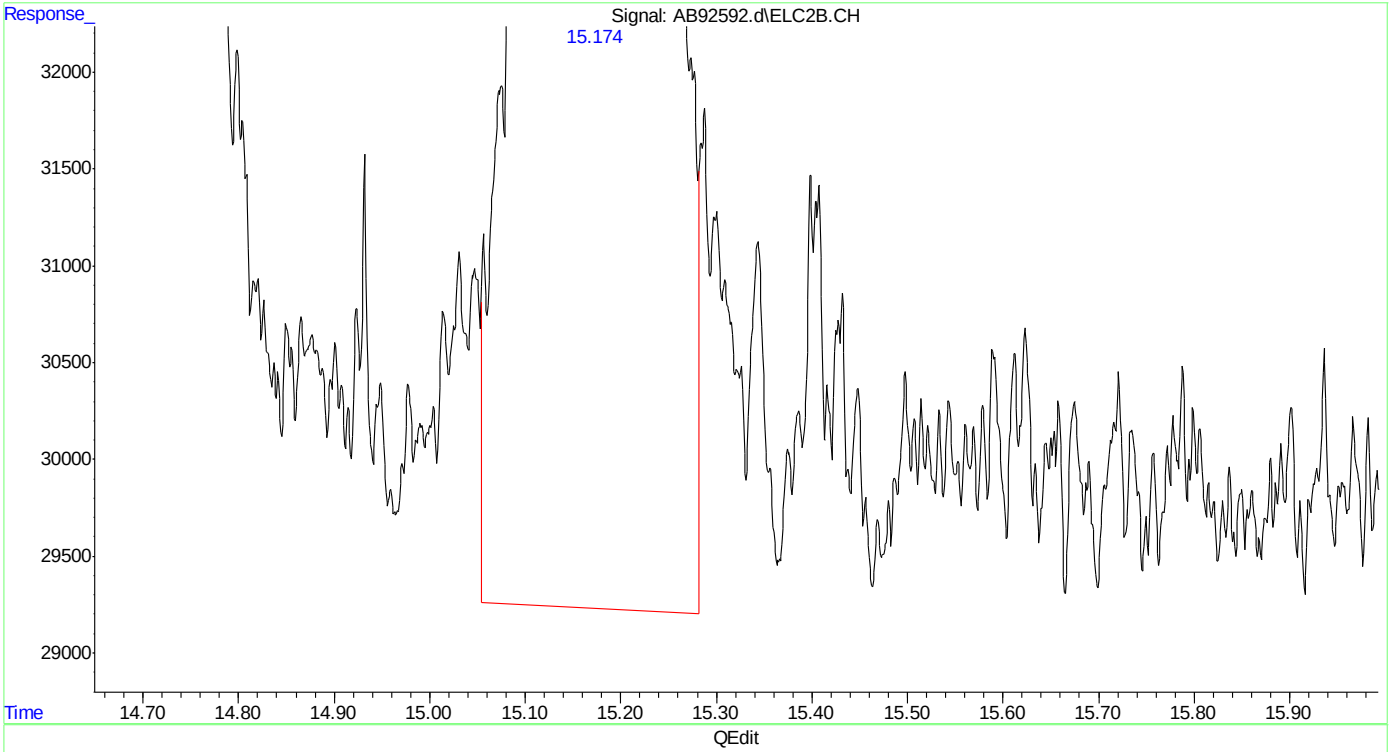
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:01:20 2016

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

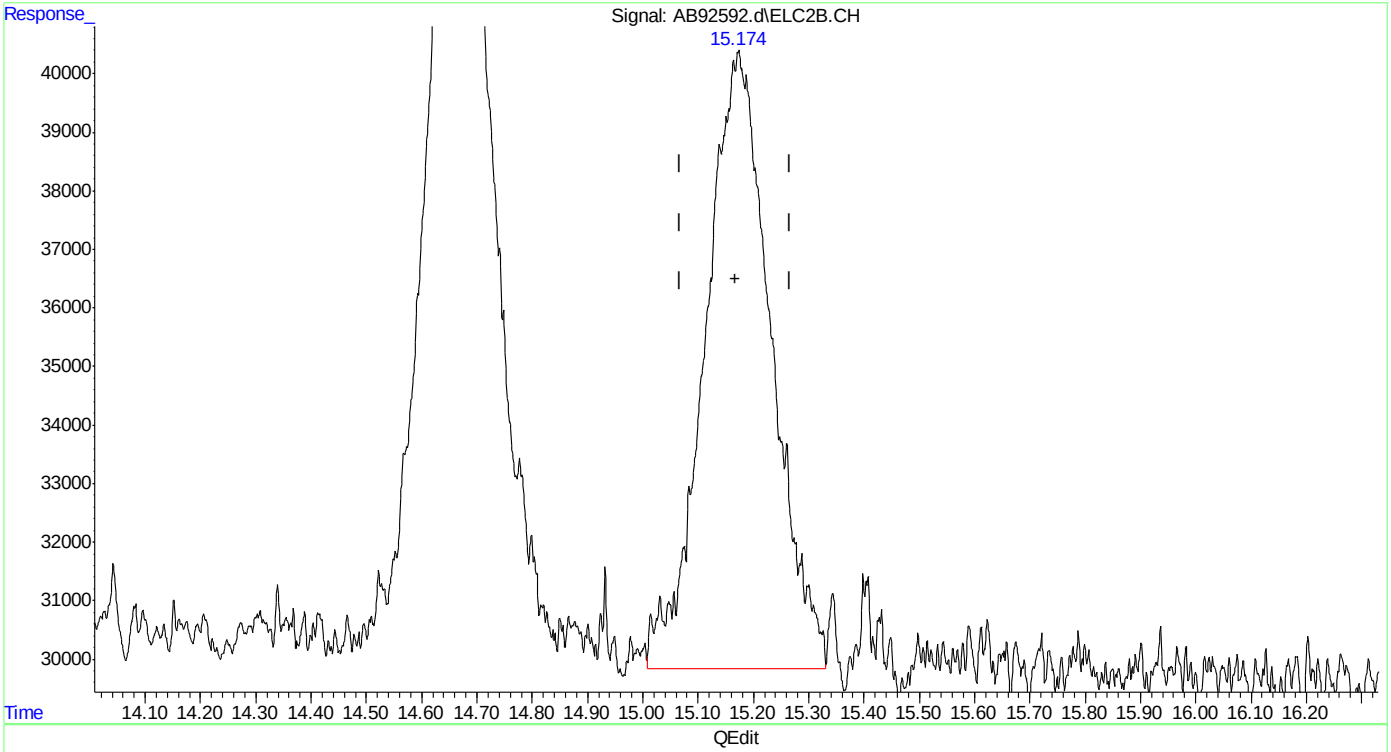
ab160112vphmaster.M Tue Jan 12 14:02:17 2016

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

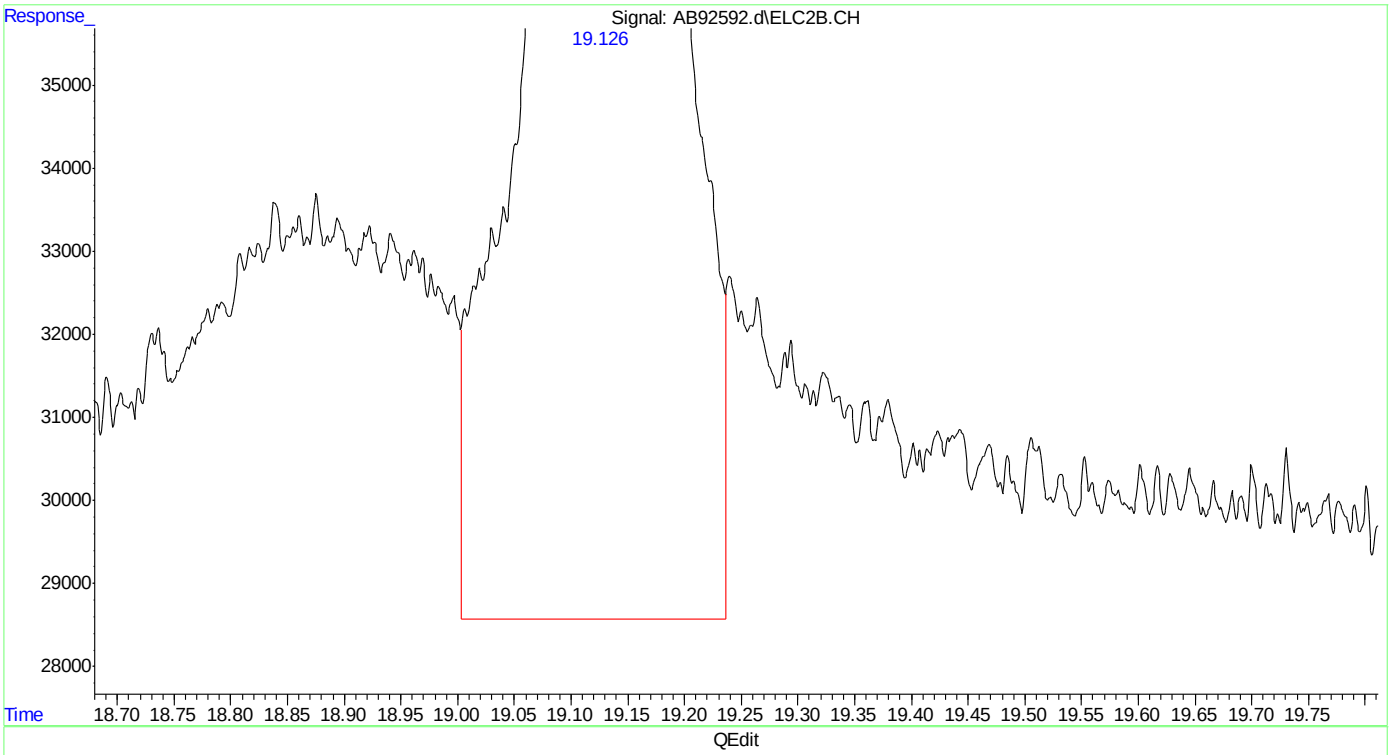
(+) = Expected Retention Time

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

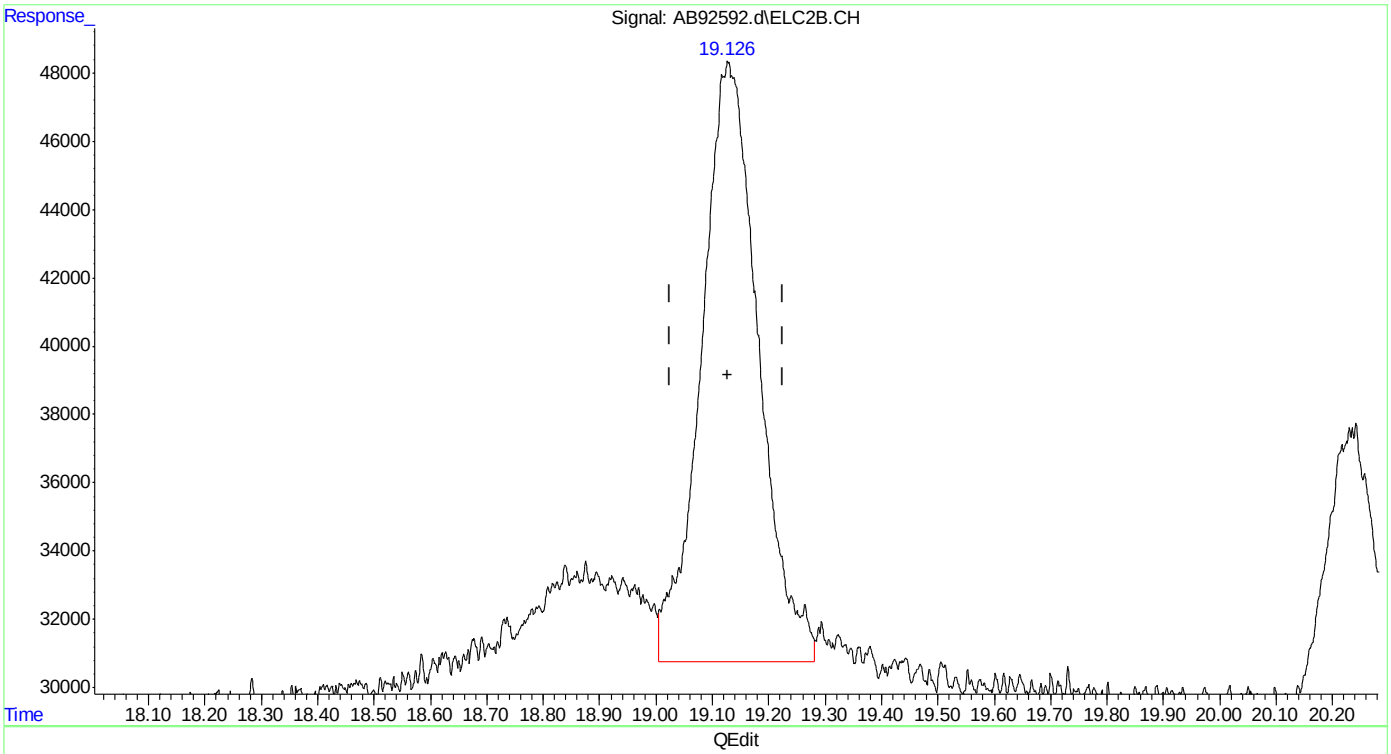
(+) = Expected Retention Time

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

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

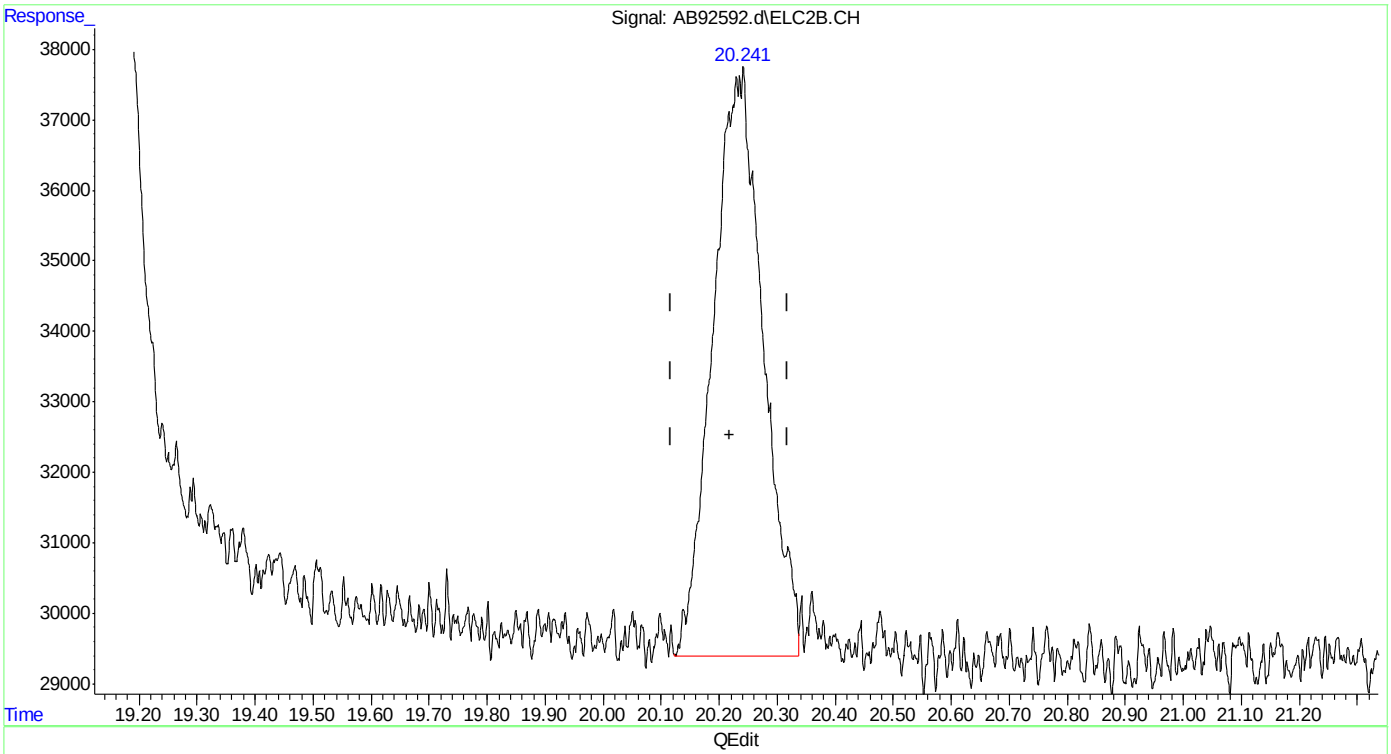
(+) = Expected Retention Time

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

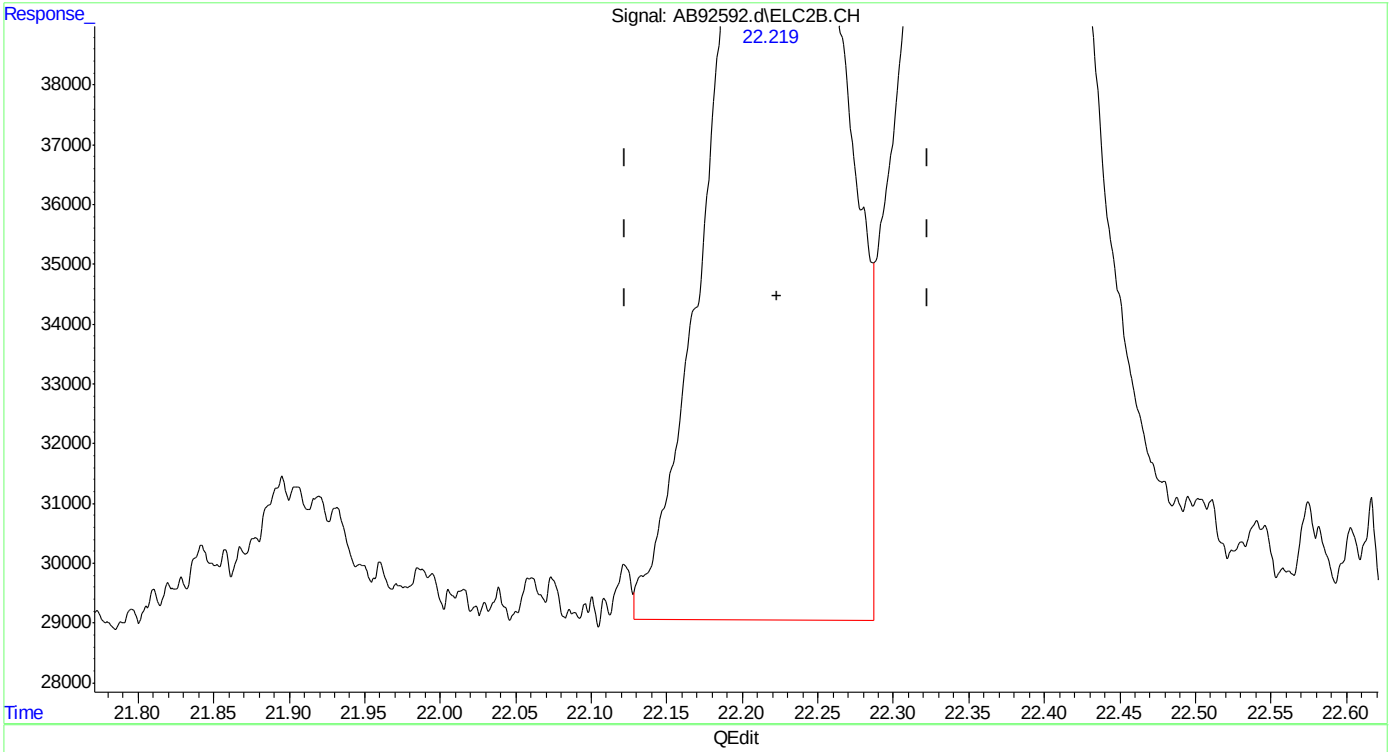
(+) = Expected Retention Time

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

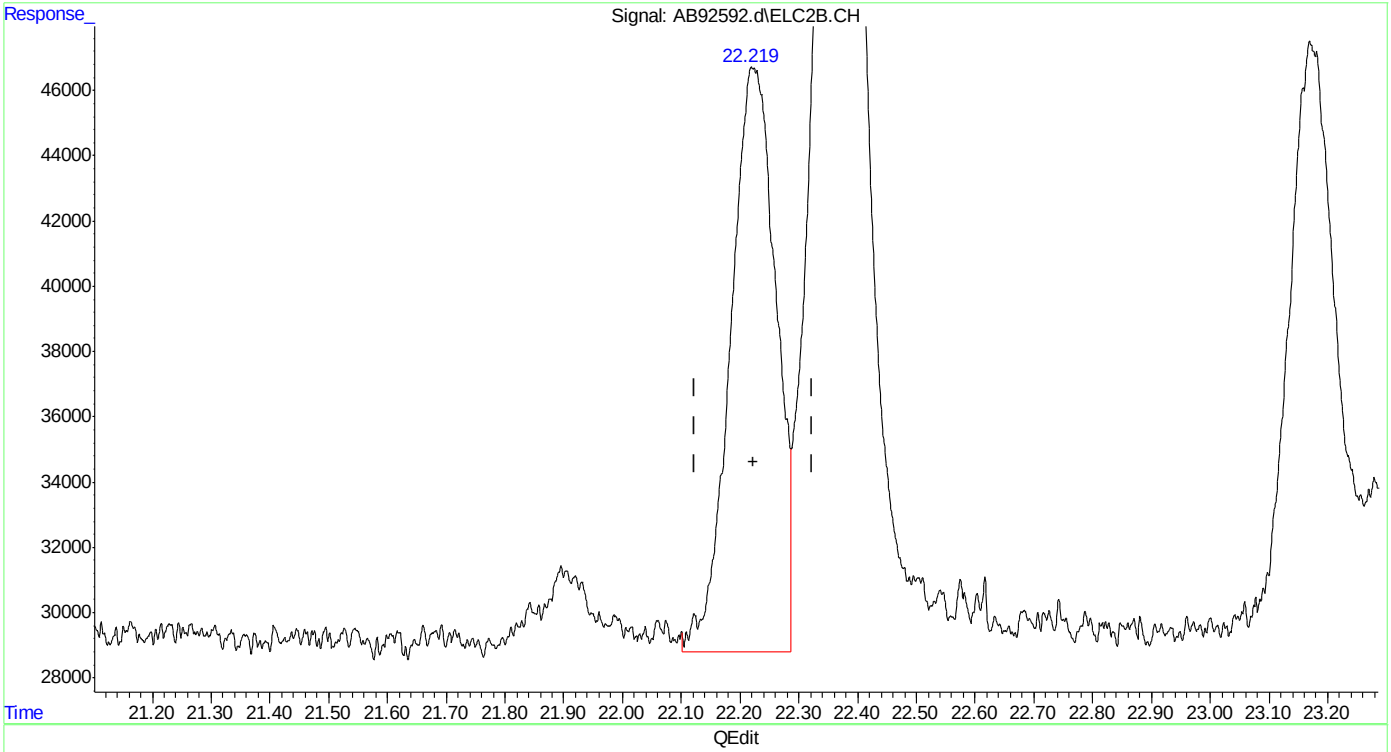
(+) = Expected Retention Time

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

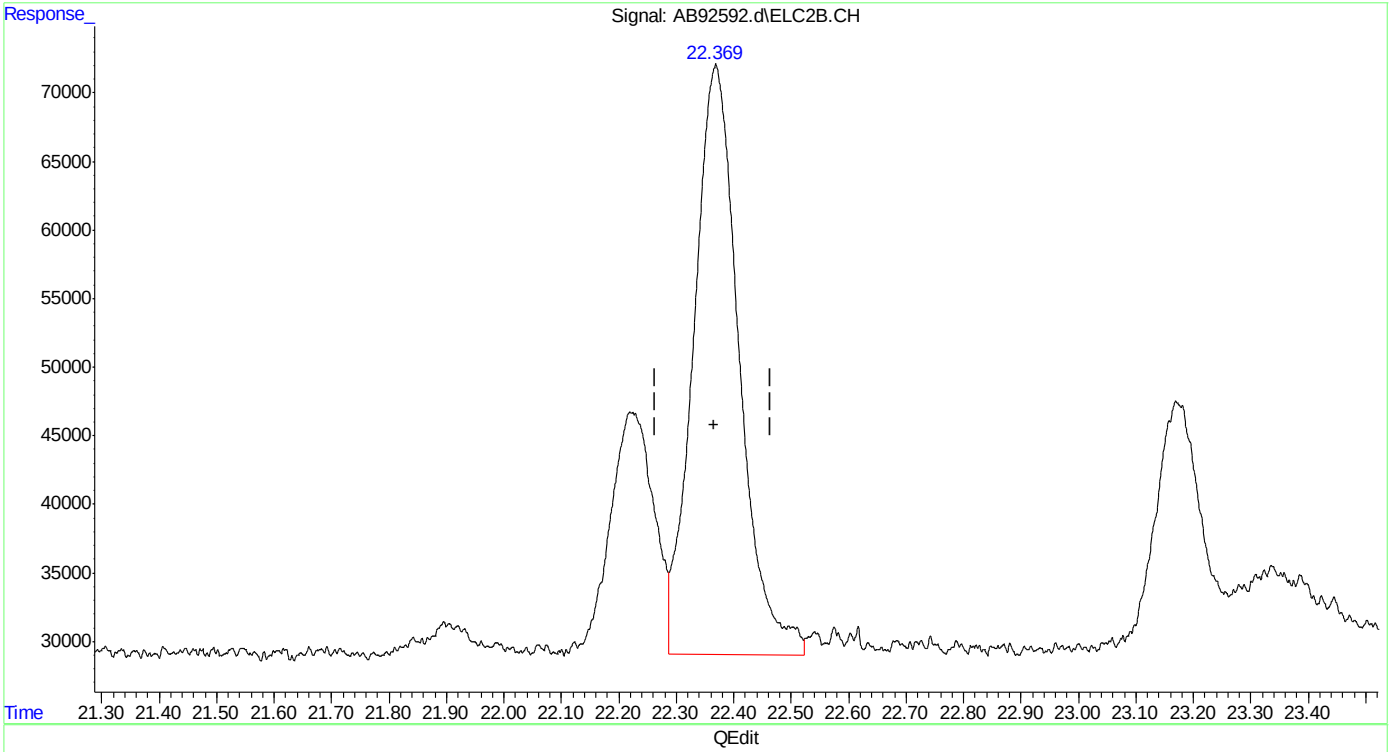
(+) = Expected Retention Time

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

ab160112vphmaster.M Tue Jan 12 14:04:01 2016

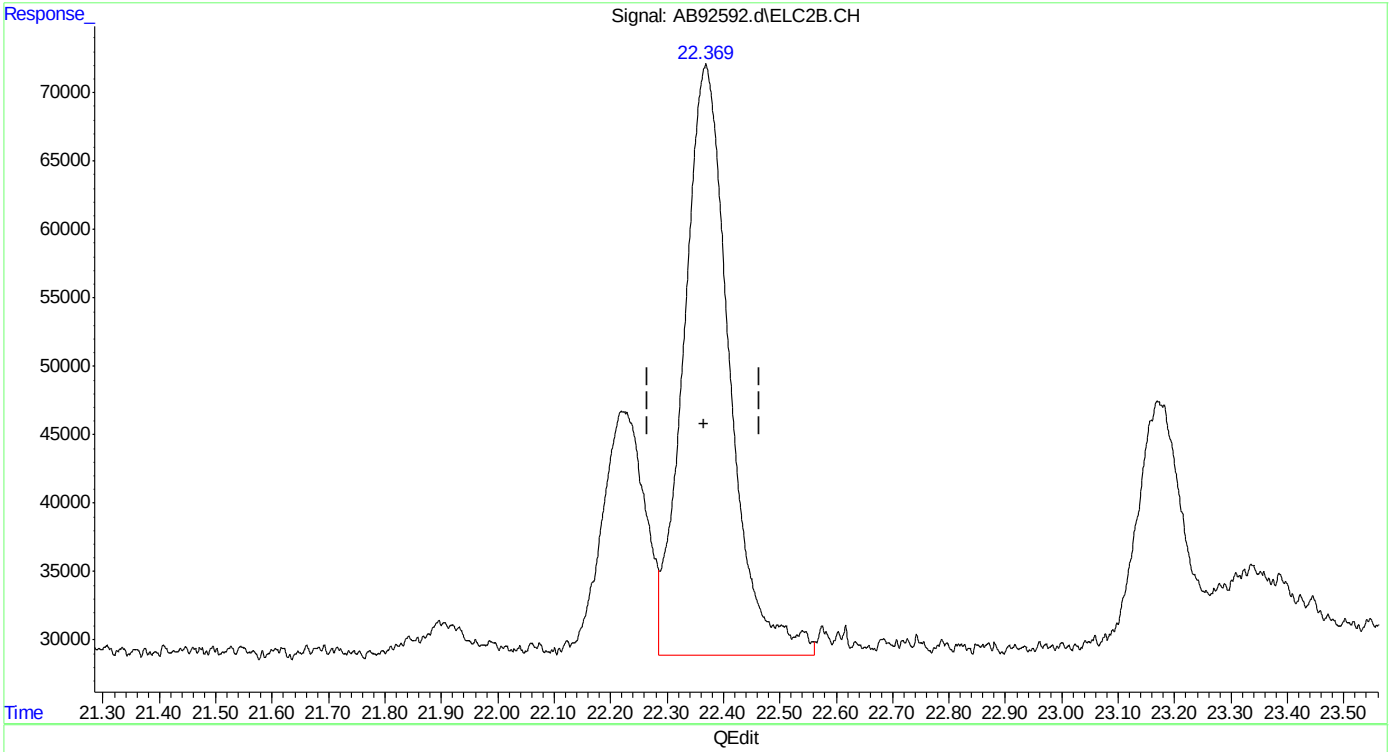
SGS ACCUTEST MC45538

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
ab160112vphmaster.M Tue Jan 12 14:04:26 2016

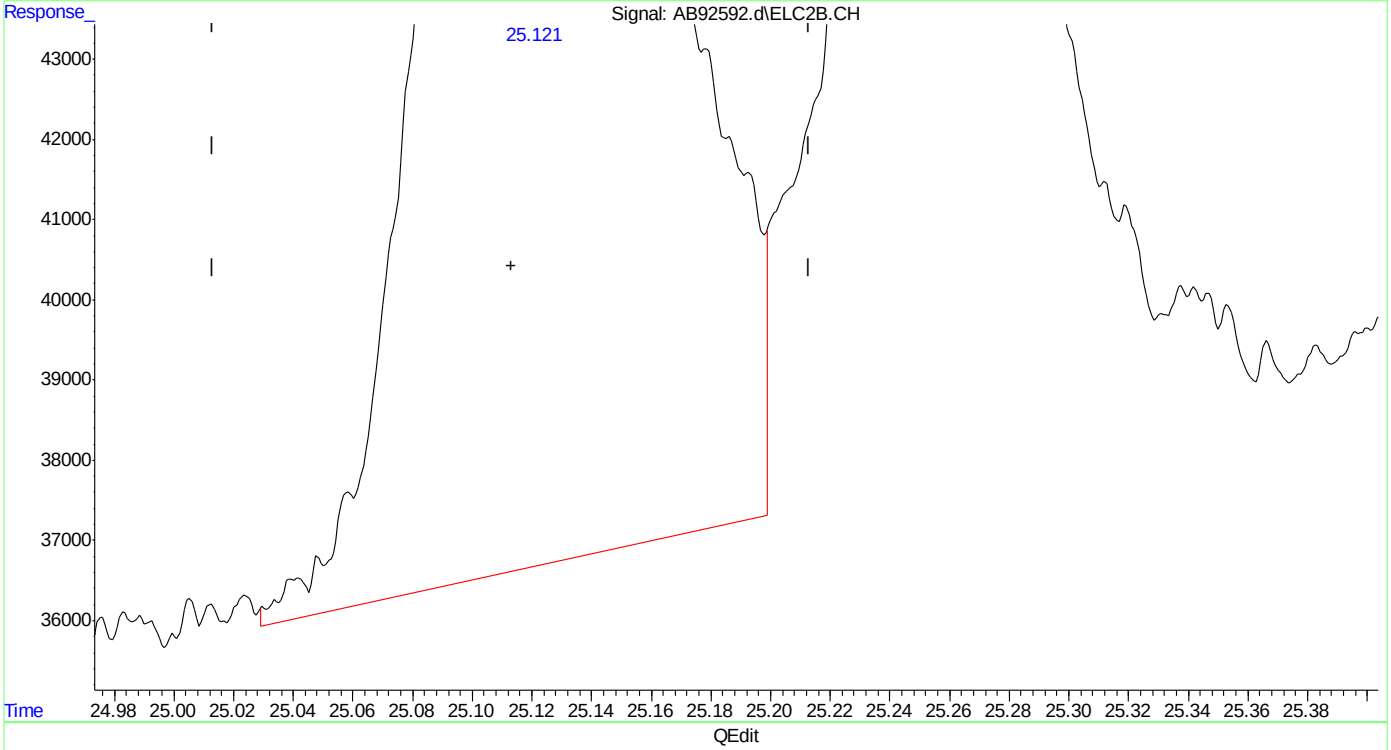
SGS ACCUTEST MC45538

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

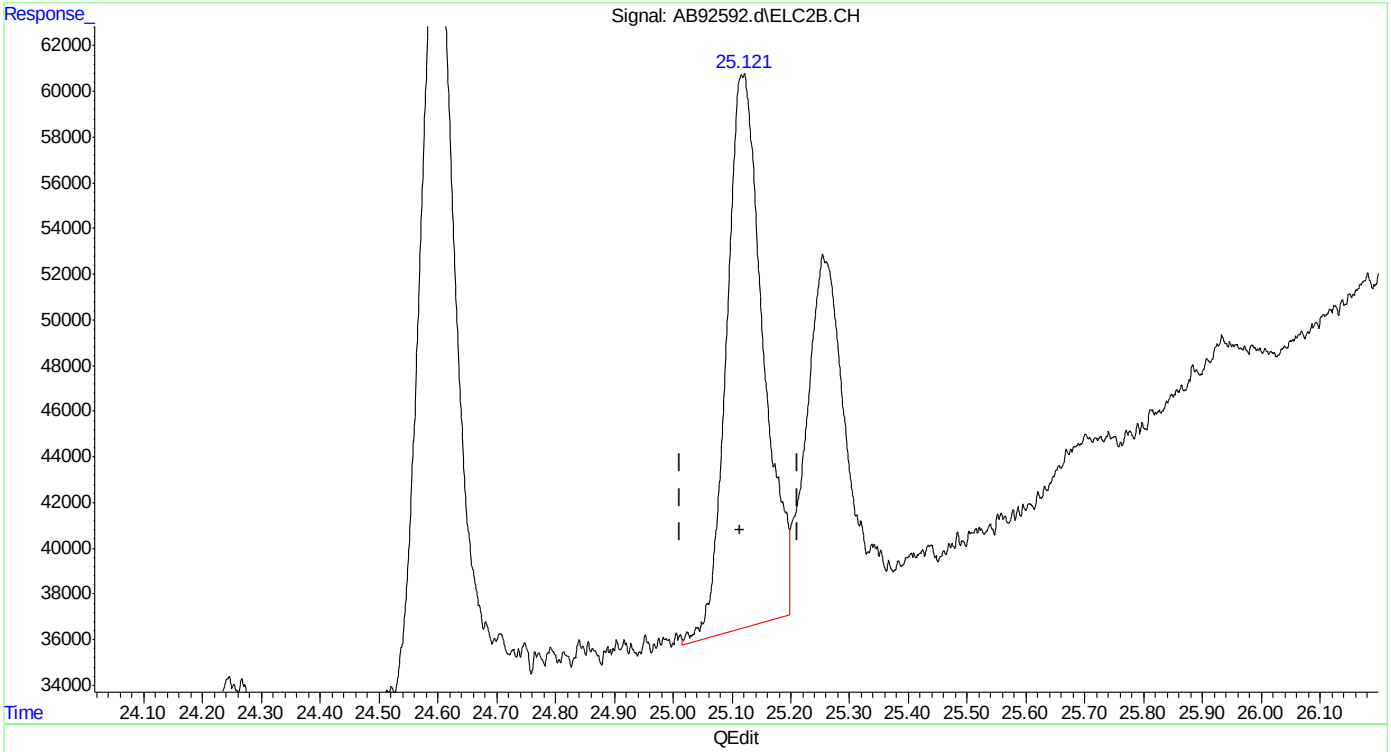
SGS ACCUTEST MC45538

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

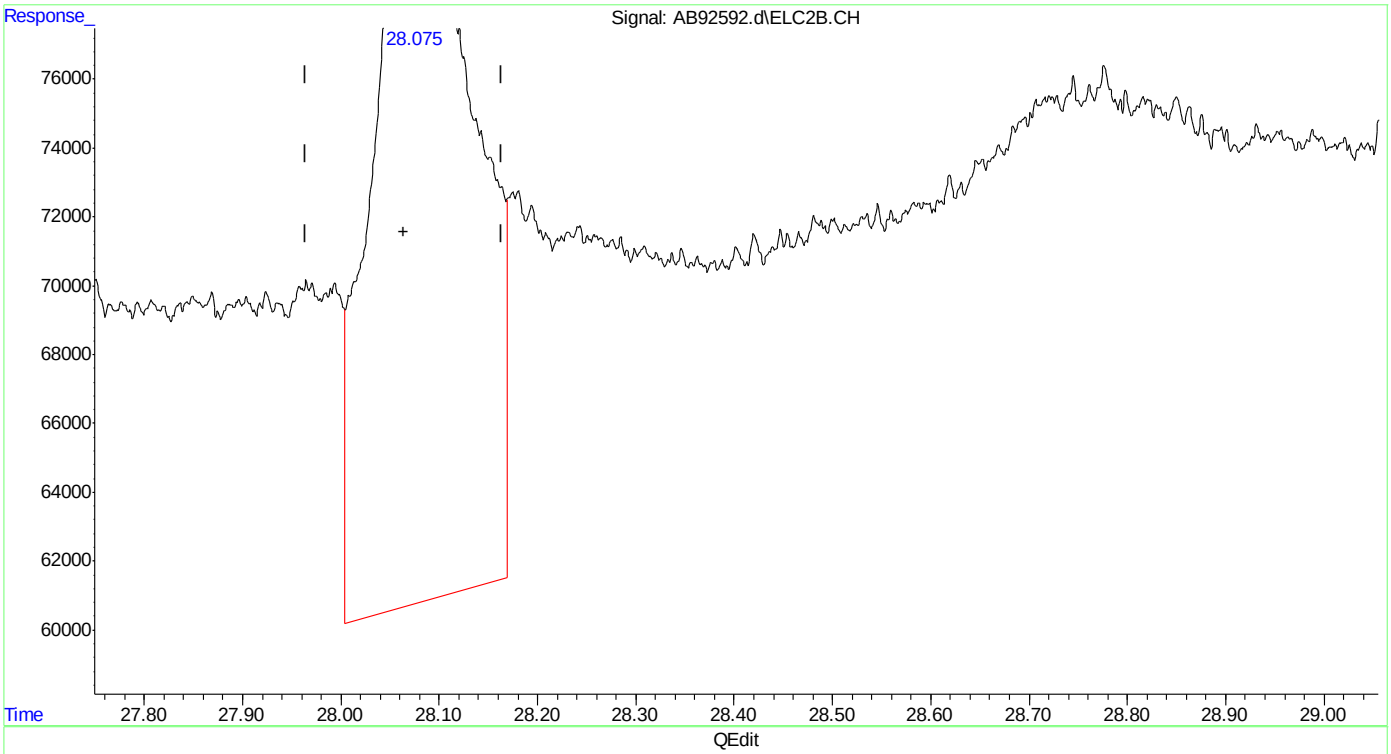
(+) = Expected Retention Time

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

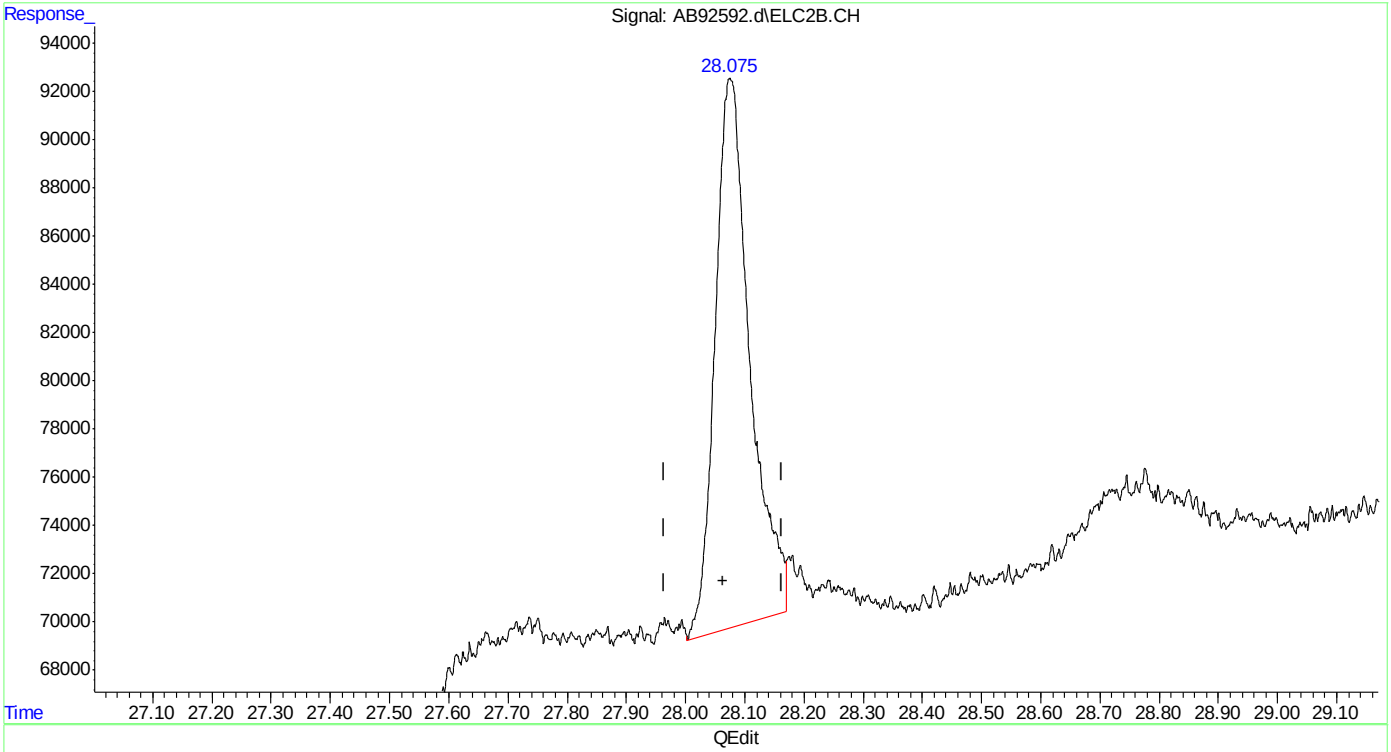
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:49 2016 Page: 1

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

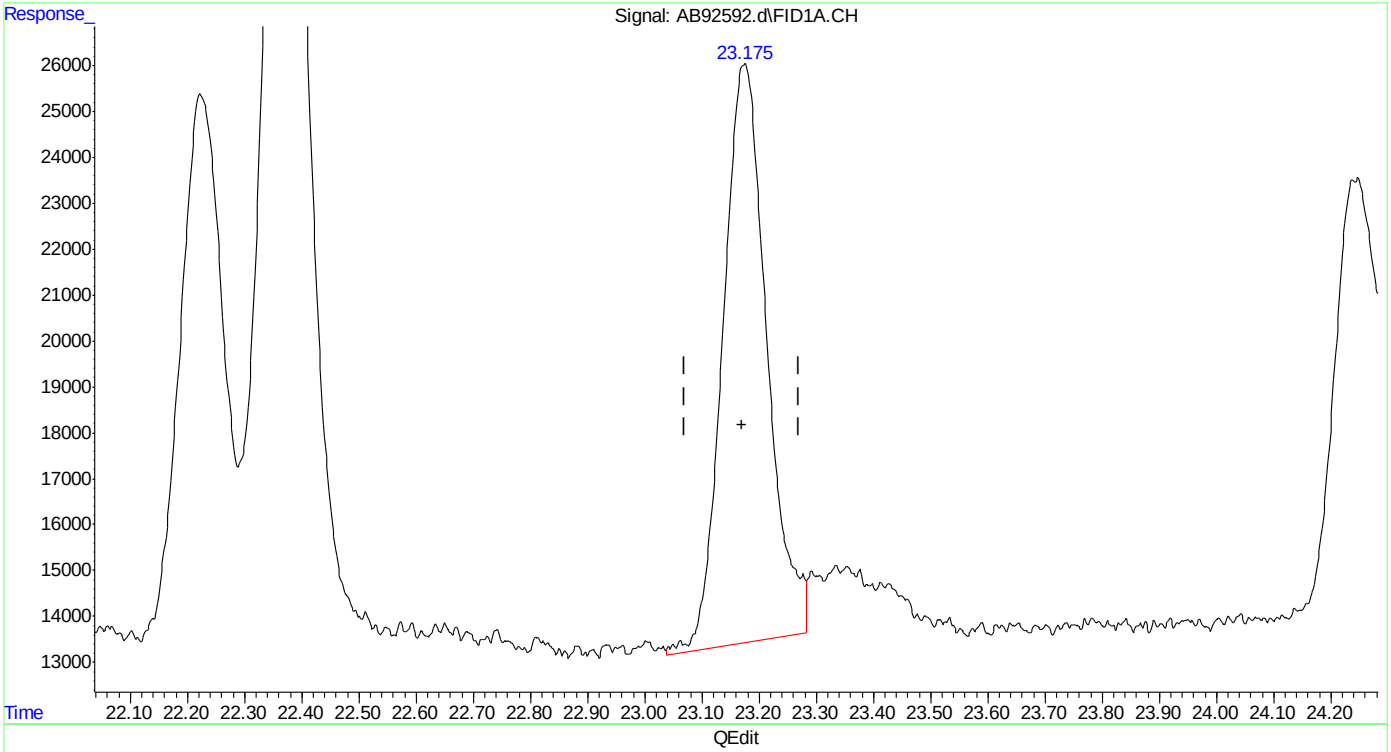
SGS ACCUTEST MC45538

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

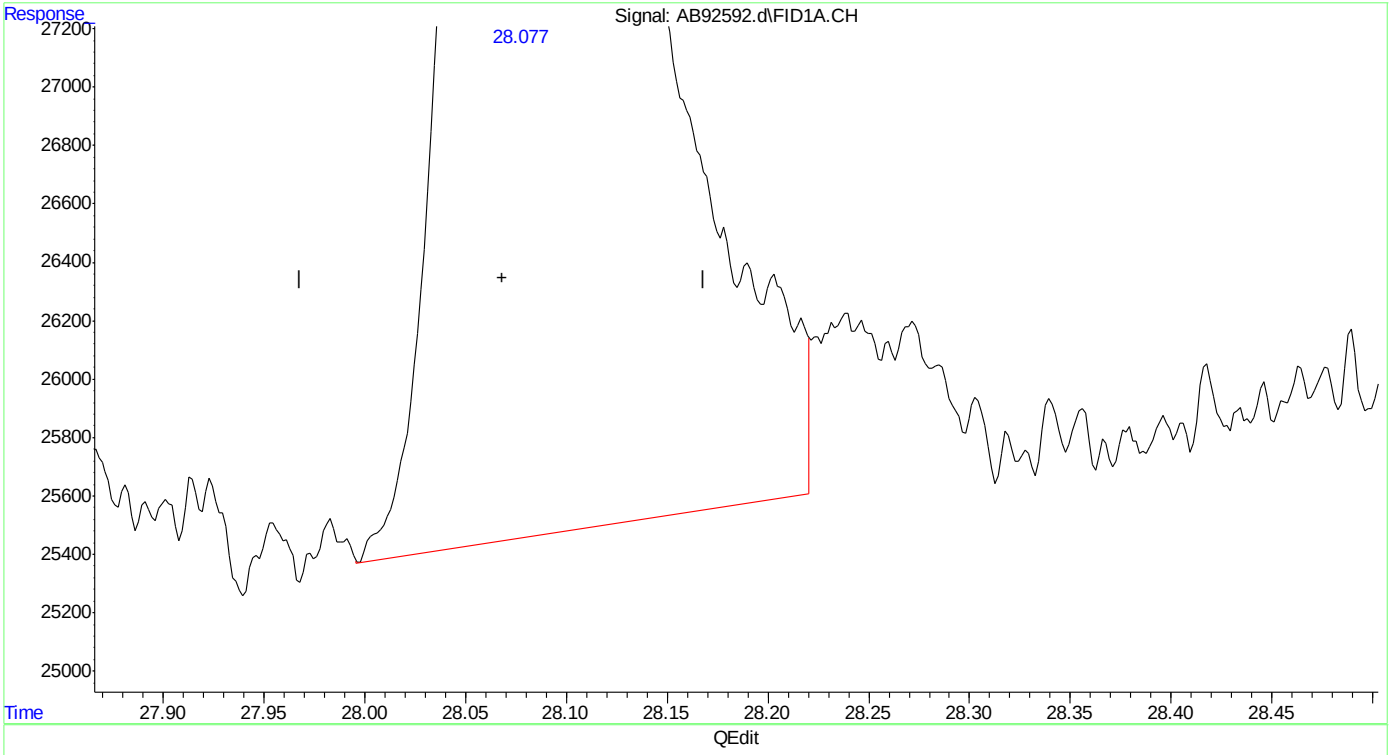
(+) = Expected Retention Time

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.

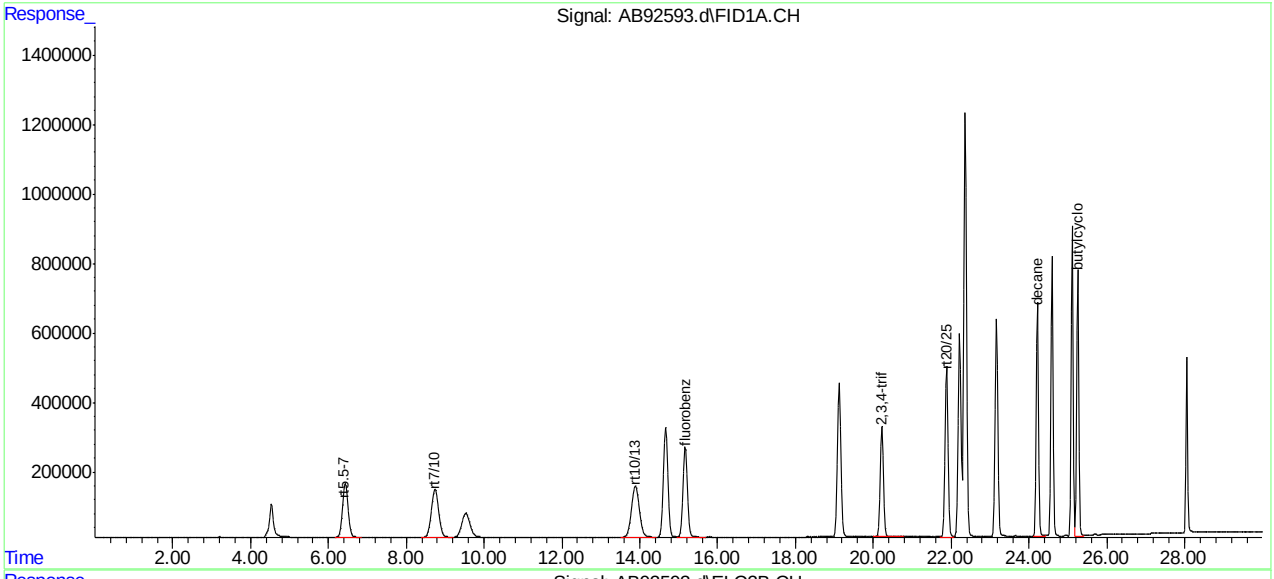
SGS ACCUTEST MC45538

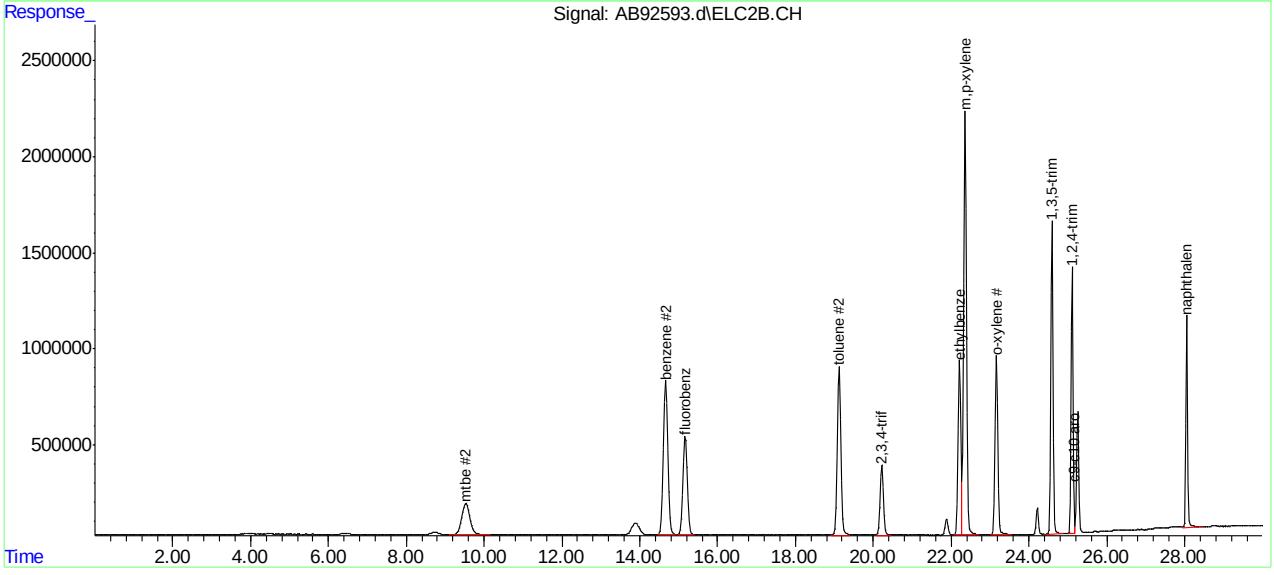
Quantitation Report (QT Reviewed)

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

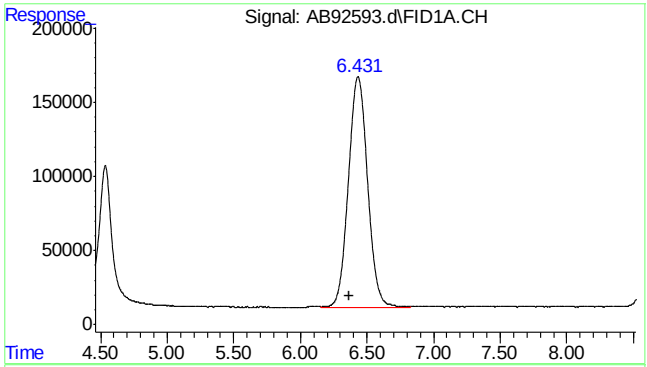
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:42:13 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent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

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



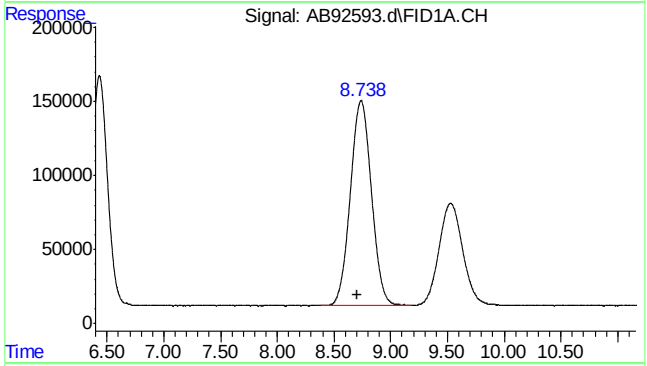


SGS ACCUTEST MC45538



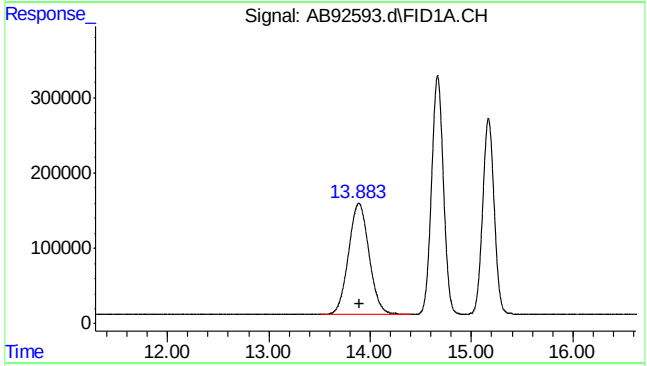
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 15547337
Conc: 38.72 ppb m



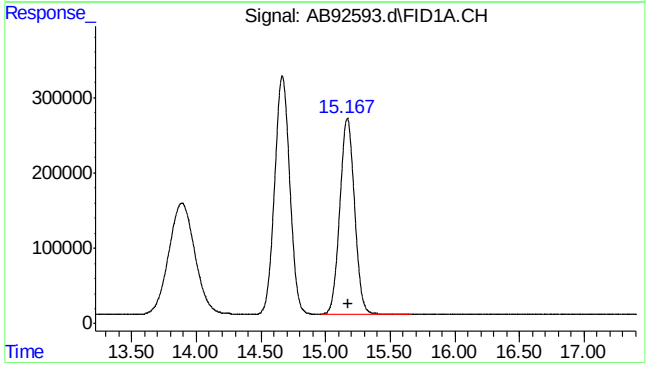
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 17999511
Conc: 44.83 ppb m



#3 rt10/13

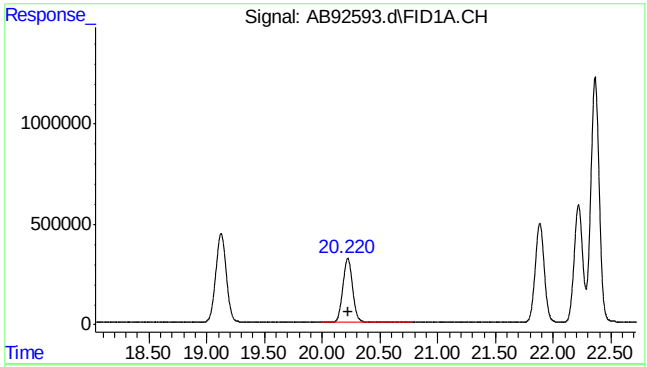
R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 20920173
Conc: 52.10 ppb m



#4 fluorobenzene

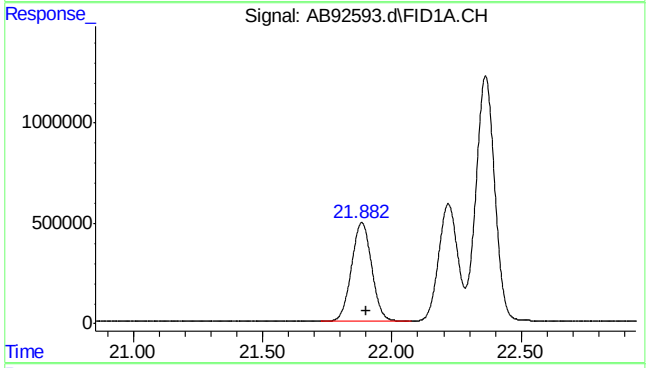
R.T.: 15.167 min
Delta R.T.: -0.005 min
Response: 20622765
Conc: 46.86 ppb

SGS ACCUTEST MC45538



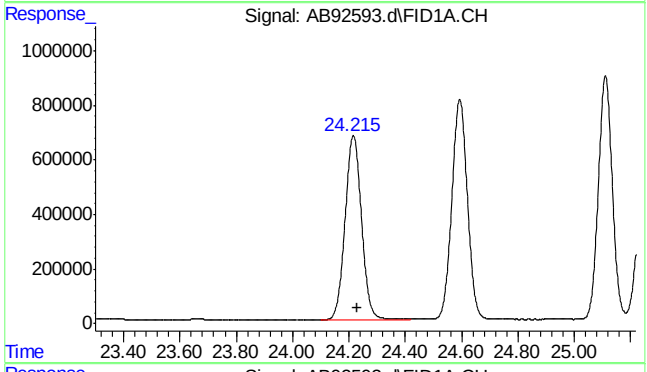
#6 2,3,4-trifluorotoluene

```
      R.T.:   20.220 min
Delta R.T.:   -0.006 min
  Response:  18655151
      Conc:  45.51 ppb
```



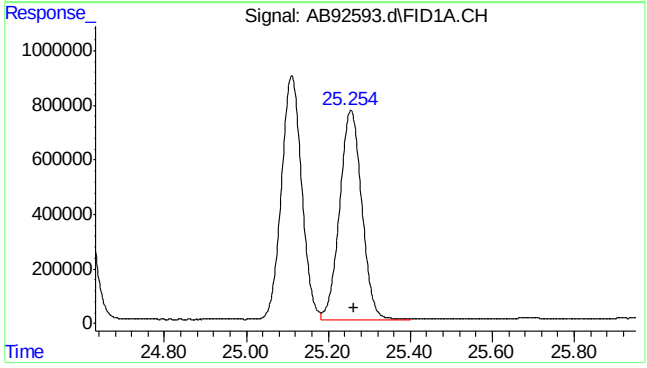
#8 rt20/25

```
      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
```



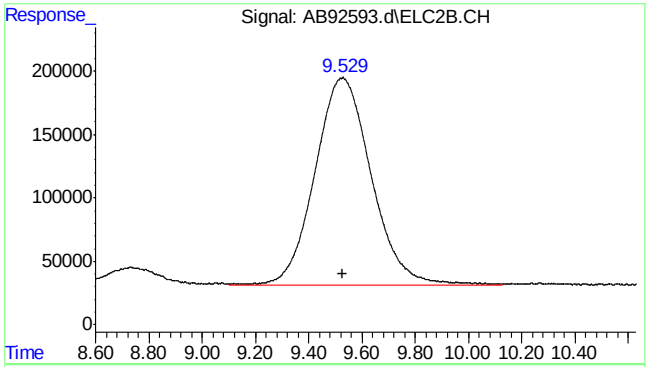
#11 butylcyclohexane

```
      R.T.:   25.263 min
Delta R.T.:    0.000 min
  Response:  28763512
      Conc:  45.91 ppb m
```

7.4.10

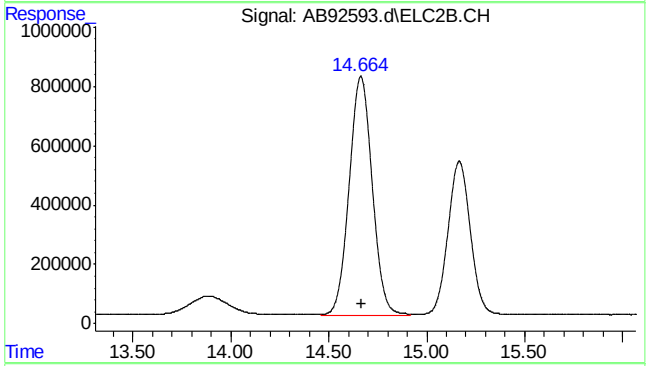
7

SGS ACCUTEST MC45538



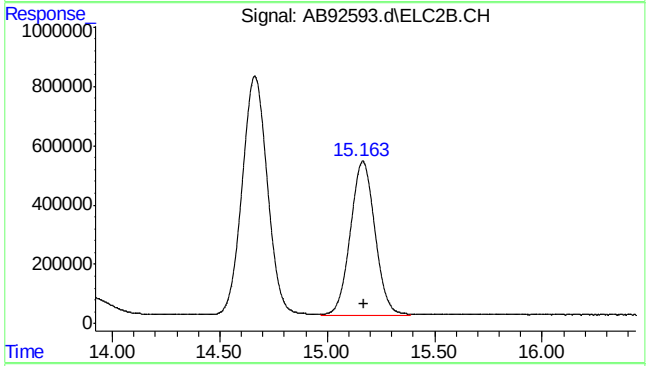
#14 mtbe #2

R.T.: 9.529 min
Delta R.T.: 0.000 min
Response: 23920523
Conc: 47.42 ppb m



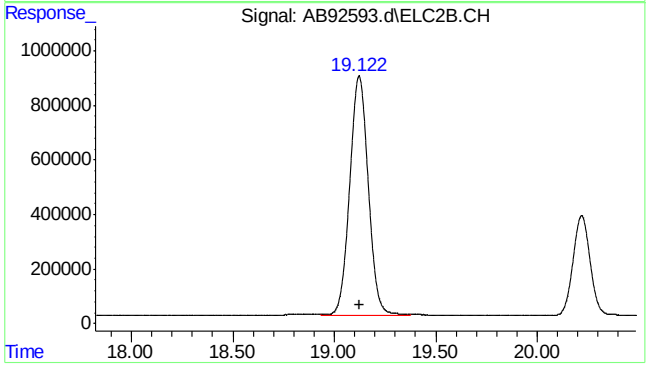
#15 benzene #2

R.T.: 14.664 min
Delta R.T.: -0.002 min
Response: 65660528
Conc: 50.44 ppb



#16 fluorobenzene #2

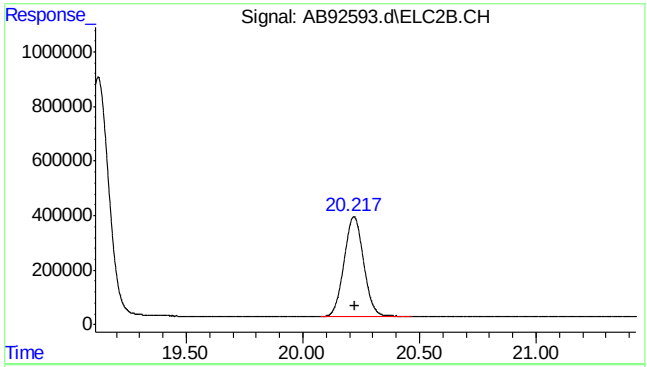
R.T.: 15.165 min
Delta R.T.: -0.006 min
Response: 41135835
Conc: 48.84 ppb



#17 toluene #2

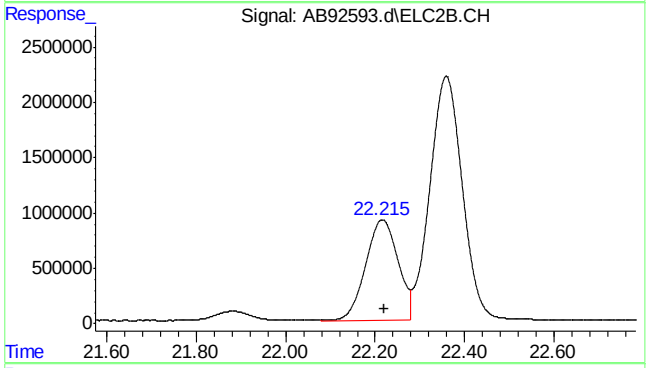
R.T.: 19.122 min
Delta R.T.: -0.003 min
Response: 56355118
Conc: 49.29 ppb

SGS ACCUTEST MC45538



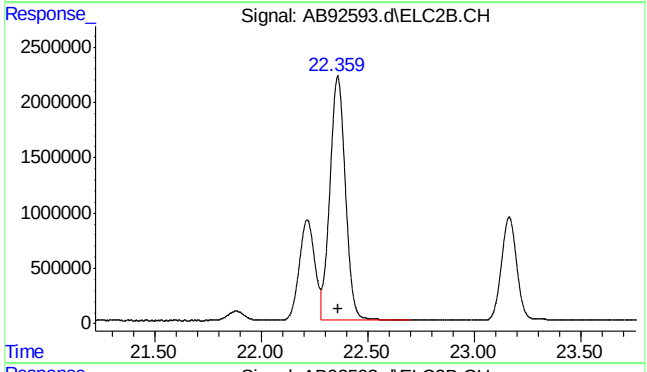
#18 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: -0.005 min
Response: 21681675
Conc: 46.44 ppb



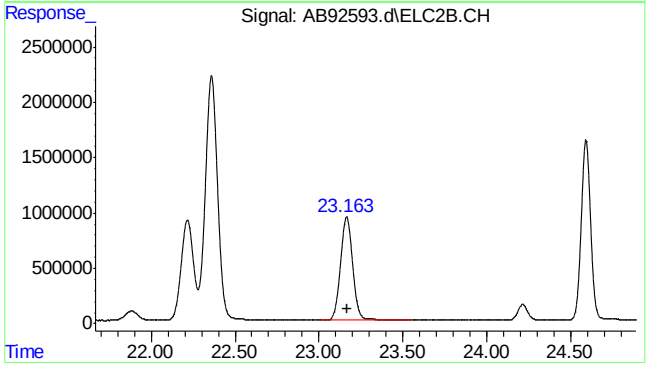
#19 ethylbenzene #2

R.T.: 22.216 min
Delta R.T.: -0.003 min
Response: 45881900
Conc: 49.56 ppb



#20 m,p-xylene #2

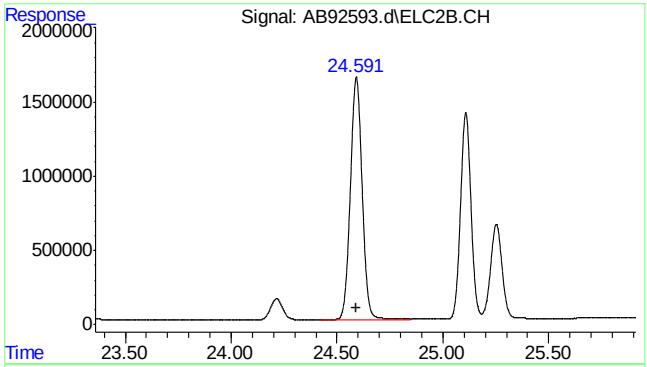
R.T.: 22.359 min
Delta R.T.: -0.003 min
Response: 112454382
Conc: 106.02 ppb



#21 o-xylene #2

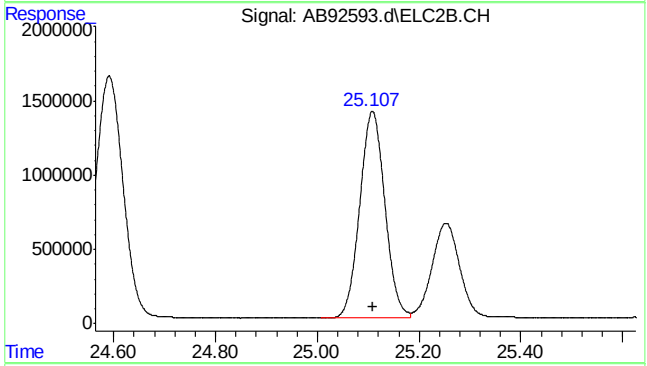
R.T.: 23.164 min
Delta R.T.: -0.003 min
Response: 47383447
Conc: 50.72 ppb

SGS ACCUTEST MC45538



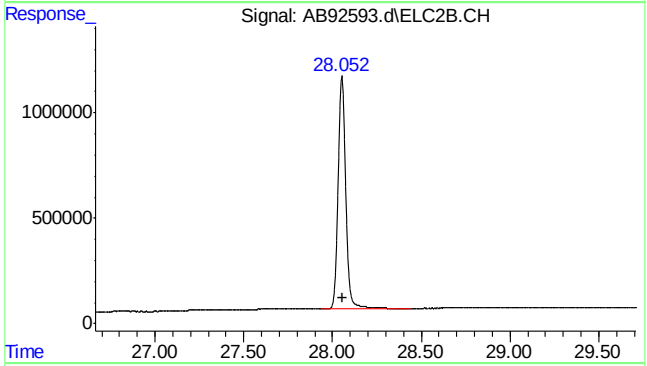
#22 1,3,5-trimethylbenzene #2

R.T.: 24.591 min
Delta R.T.: -0.002 min
Response: 63131896
Conc: 48.32 ppb



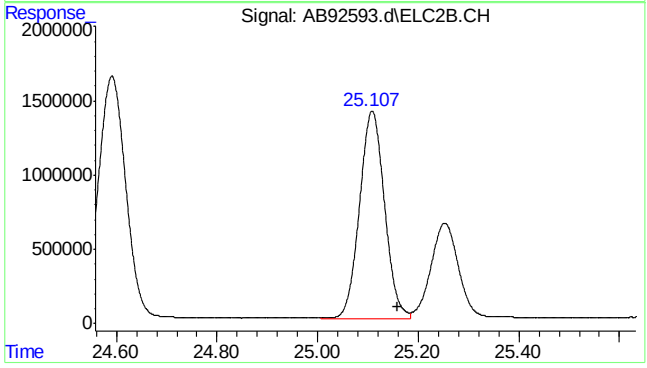
#23 1,2,4-trimethylbenzene #2

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

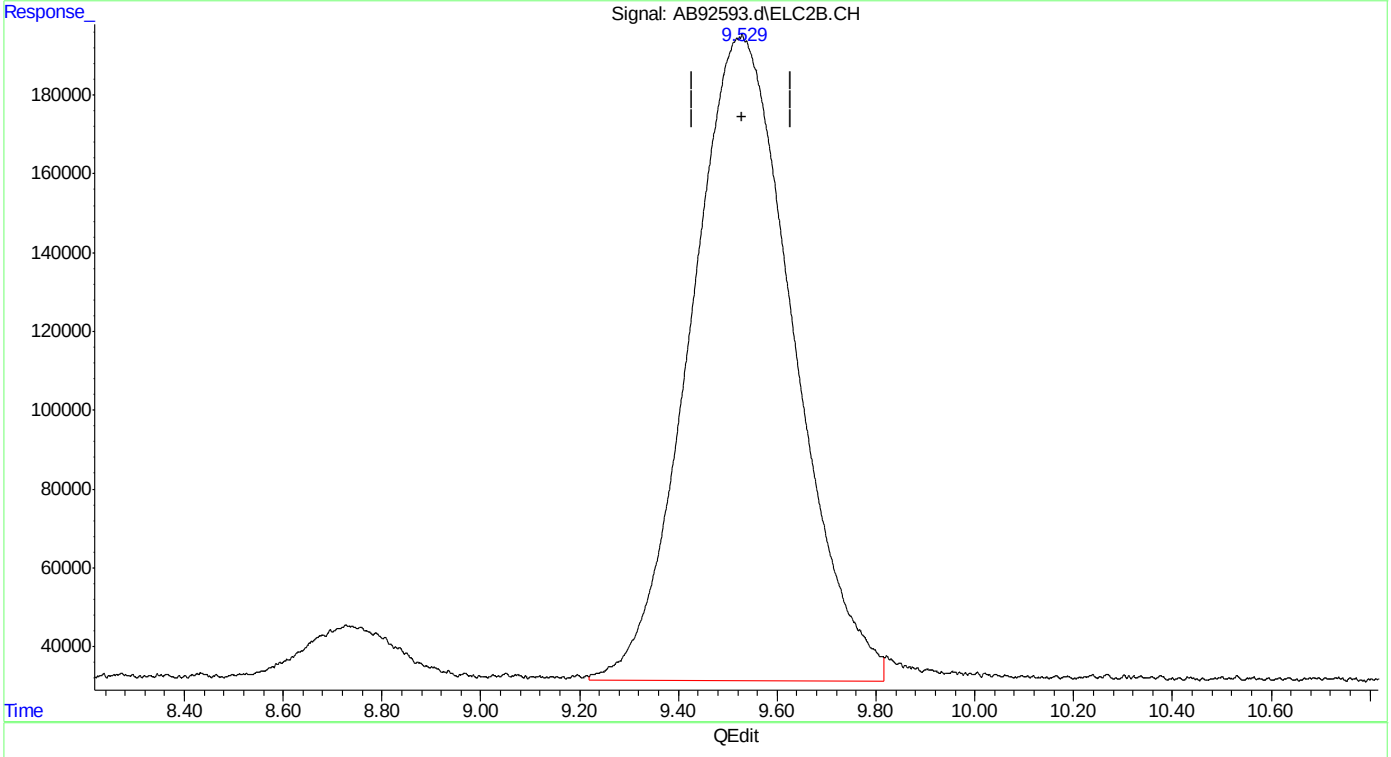
R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 47972410
Conc: 50.07 ppb m

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

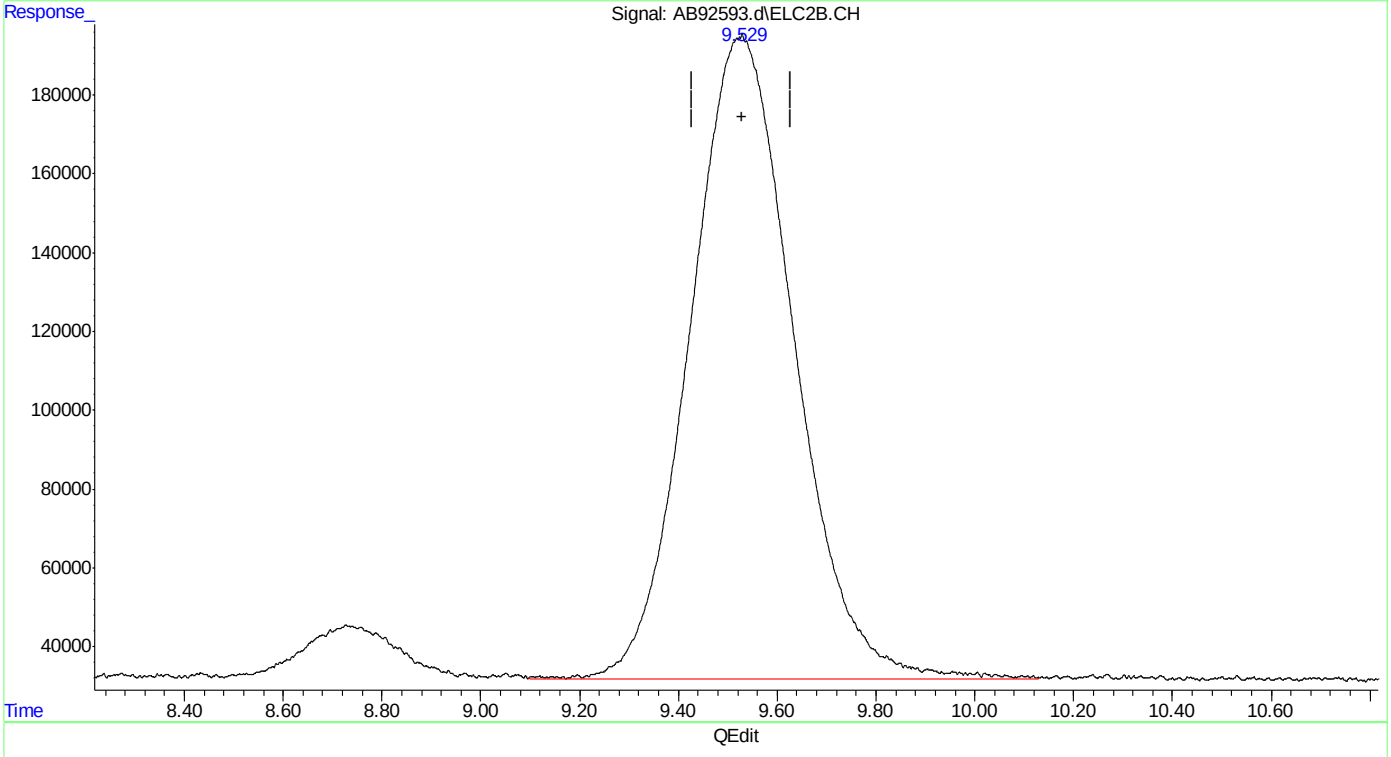
(+) = Expected Retention Time
ab160112vph.M Tue Jan 12 15:41:17 2016

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

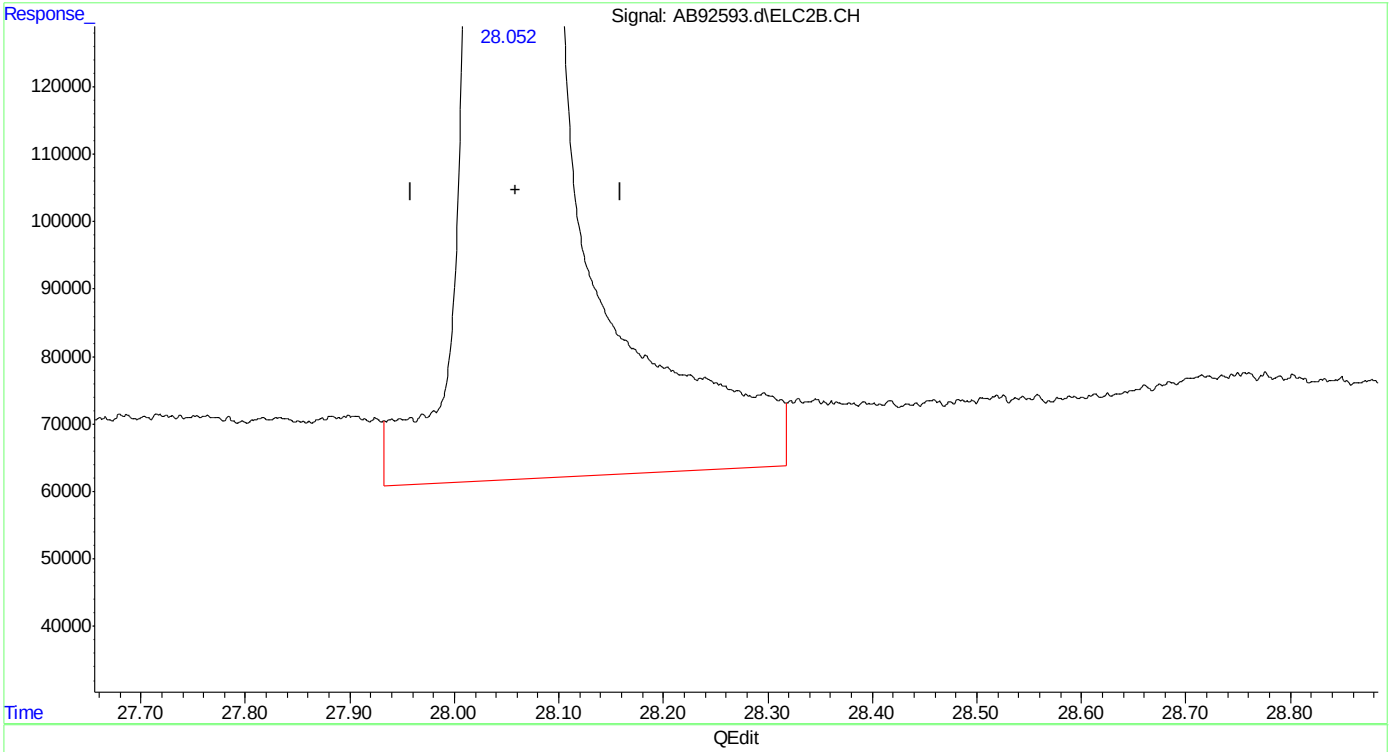
(+) = Expected Retention Time
ab160112vph.M Tue Jan 12 15:41:23 2016

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

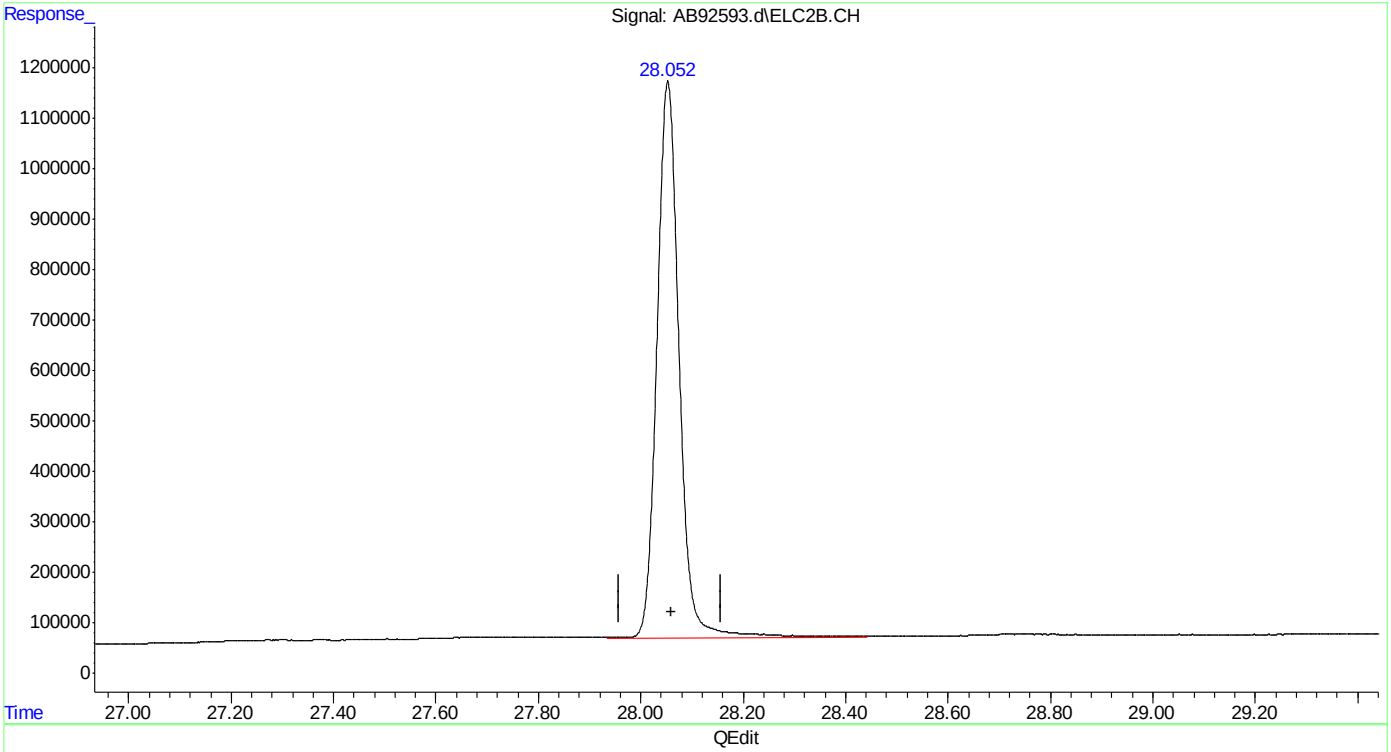
SGS ACCUTEST MC45538

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 MC45538

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 13:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:58:08 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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	15.139	21064164	47.858	ppb	
Spiked Amount 50.000		Recovery =	95.72%		
6) s 2,3,4-trifluorotoluene	20.195	19266116	46.996	ppb	m
Spiked Amount 50.000		Recovery =	93.99%		
16) s fluorobenzene #2	15.138	40577683	48.178	ppb	m
Spiked Amount 50.000		Recovery =	96.36%		
18) s 2,3,4-trifluorotoluen...	20.193	21314693	45.654	ppb	
Spiked Amount 50.000		Recovery =	91.31%		
Target Compounds					
1) h rt5.5-7	6.420	10439272	26.000	ppb	m
2) h rt7/10	8.720	15134806	37.695	ppb	m
3) h rt10/13	13.870	20450961	50.935	ppb	m
8) h rt20/25	21.870	26789326	42.760	ppb	m
10) h decane	24.200	26993447	43.086	ppb	
11) h butylcyclohexane	25.240	29356163	46.857	ppb	m
14) mtbe #2	9.505	24343353	48.257	ppb	m
15) benzene #2	14.634	61993628	47.627	ppb	
17) toluene #2	19.093	53981416	47.216	ppb	m
19) ethylbenzene #2	22.192	44777194	48.363	ppb	
20) m,p-xylene #2	22.336	108093219	101.906	ppb	
21) o-xylene #2	23.142	45066257	48.244	ppb	
22) t 1,3,5-trimethylbenzen...	24.573	58367004	44.674	ppb	
23) 1,2,4-trimethylbenzen...	25.091	45421976	47.461	ppb	
24) naphthalene #2	28.036	32575666	45.062	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	45489822	47.482	ppb	m

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

7.4.11

7

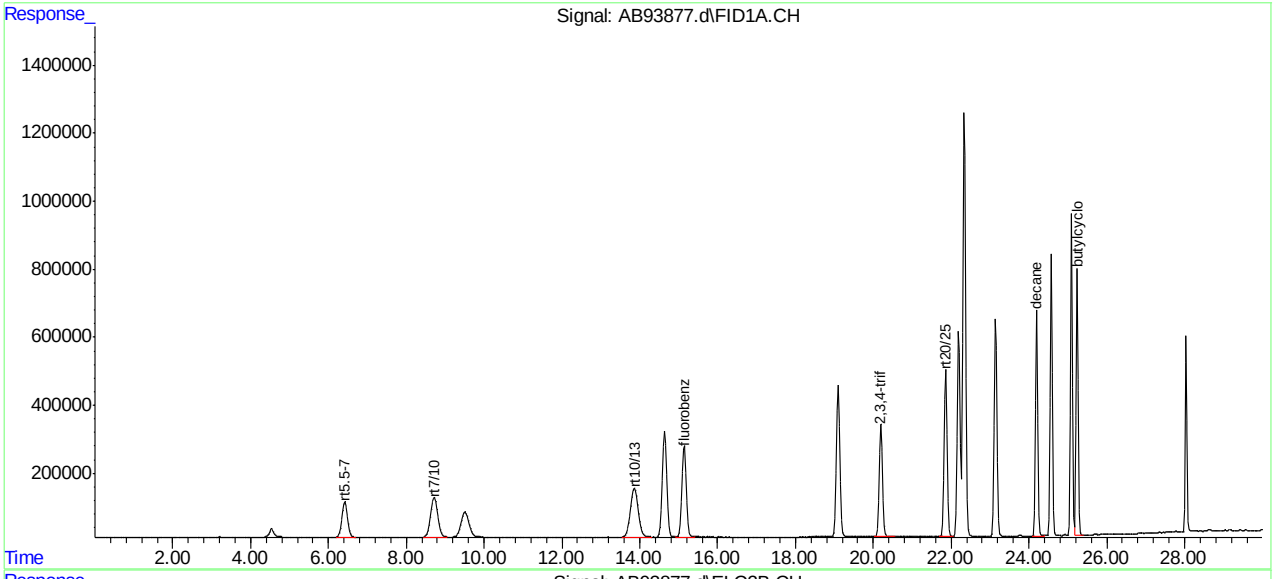
SGS ACCUTEST MC45538

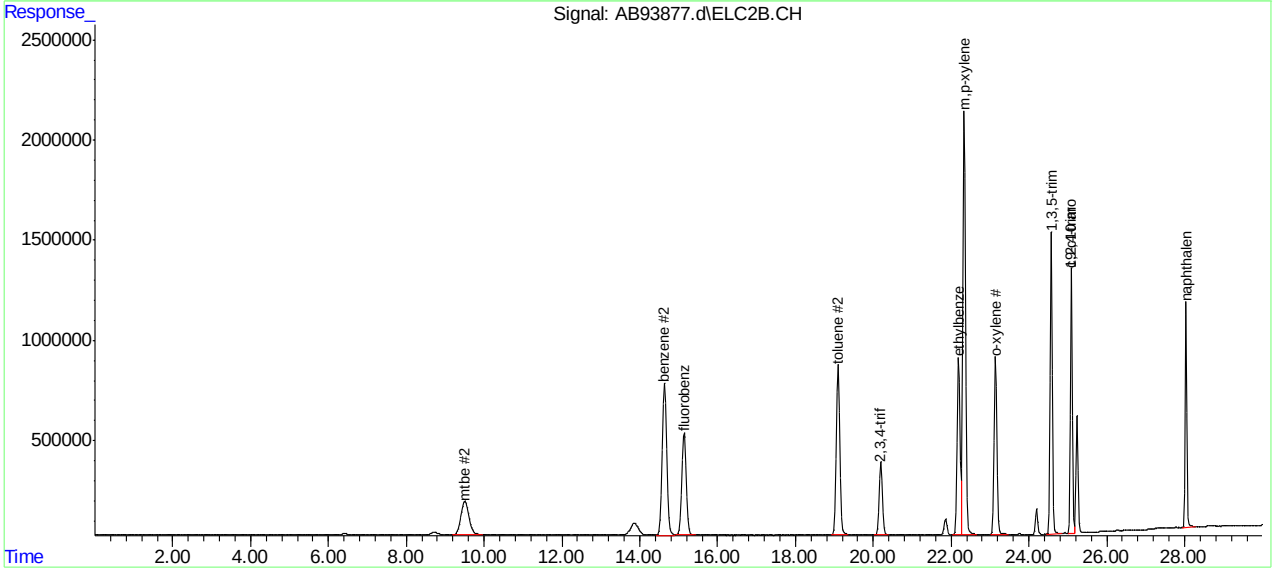
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

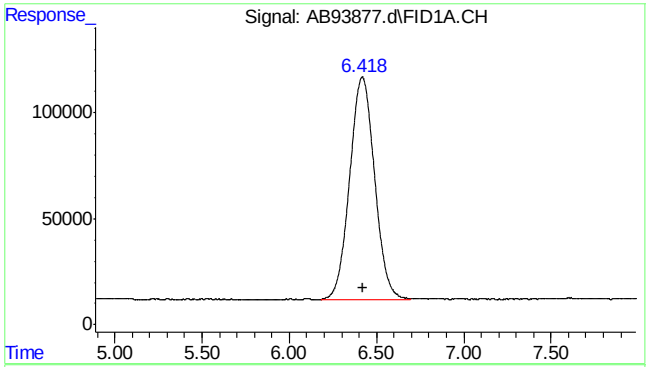
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 27 11:58:08 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



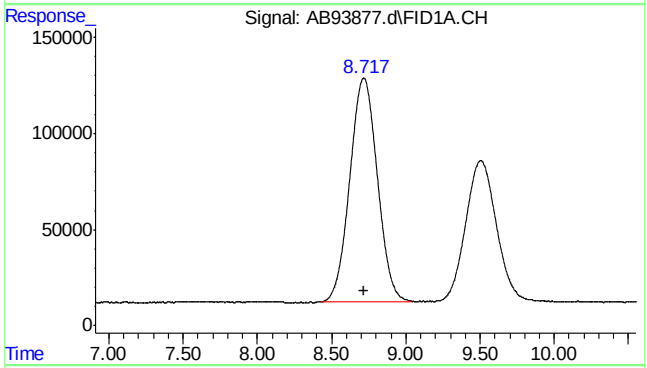


SGS ACCUTEST MC45538



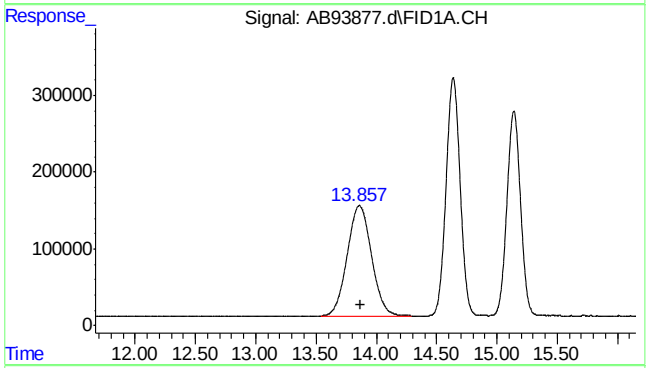
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 10439272
Conc: 26.00 ppb m



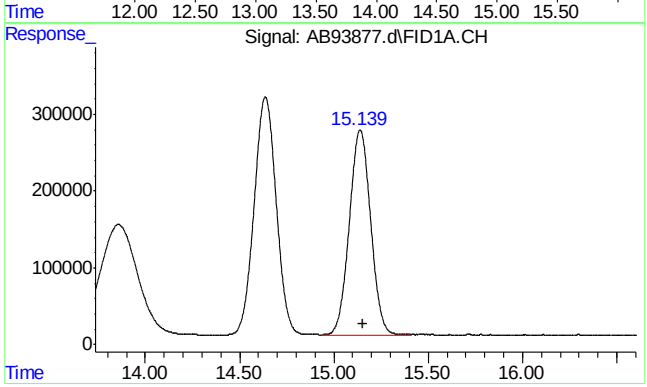
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 15134806
Conc: 37.69 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 20450961
Conc: 50.94 ppb m



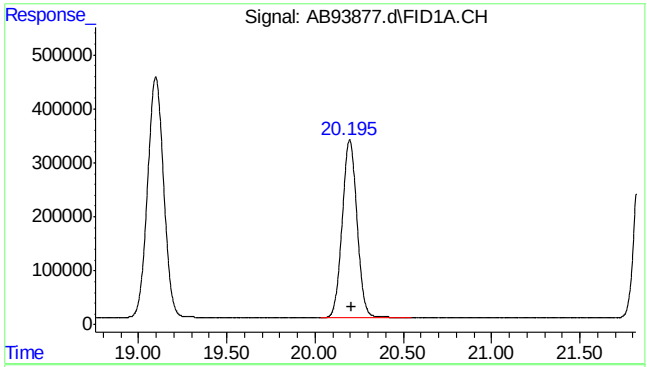
#4 fluorobenzene

R.T.: 15.139 min
Delta R.T.: -0.012 min
Response: 21064164
Conc: 47.86 ppb

7.4.11

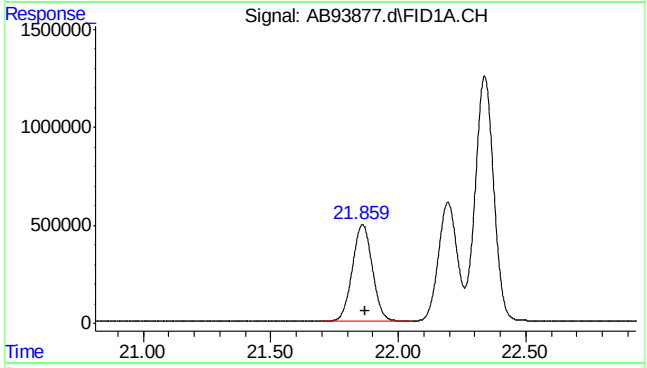
7

SGS ACCUTEST MC45538



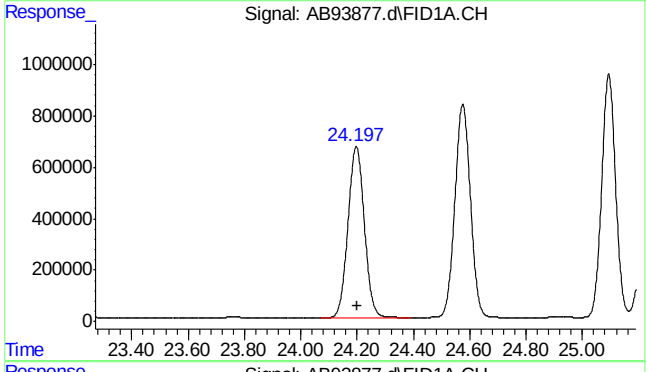
#6 2,3,4-trifluorotoluene

R.T.: 20.195 min
Delta R.T.: -0.011 min
Response: 19266116
Conc: 47.00 ppb m



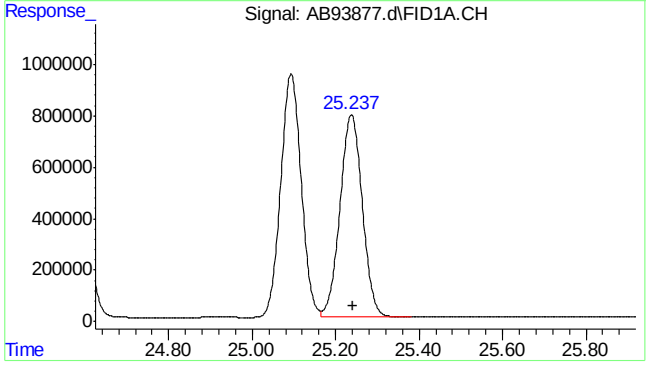
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26789326
Conc: 42.76 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 26993447
Conc: 43.09 ppb



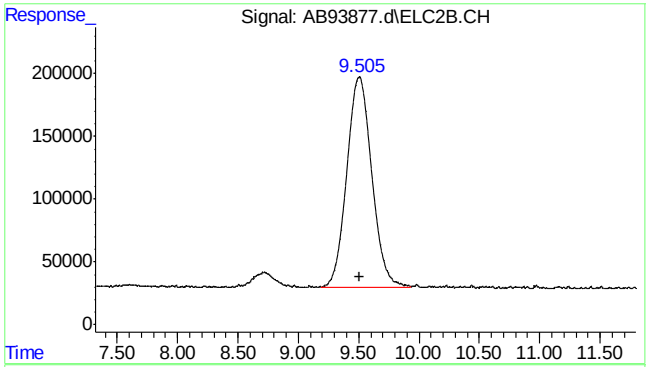
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29356163
Conc: 46.86 ppb m

7.4.11

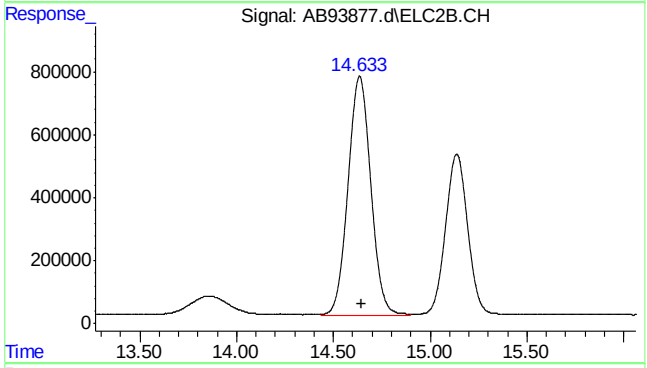
7

SGS ACCUTEST MC45538



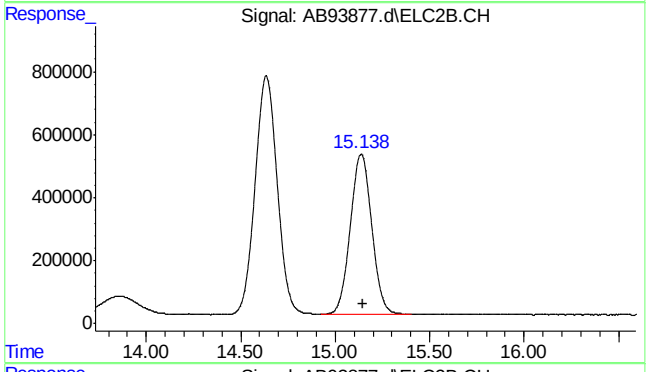
#14 mtbe #2

R.T.: 9.505 min
Delta R.T.: -0.006 min
Response: 24343353
Conc: 48.26 ppb m



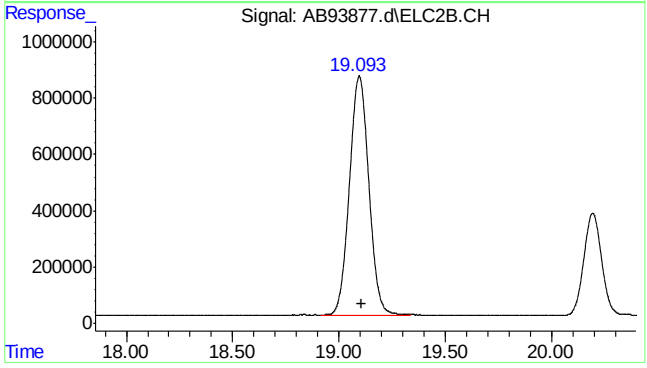
#15 benzene #2

R.T.: 14.634 min
Delta R.T.: -0.012 min
Response: 61993628
Conc: 47.63 ppb



#16 fluorobenzene #2

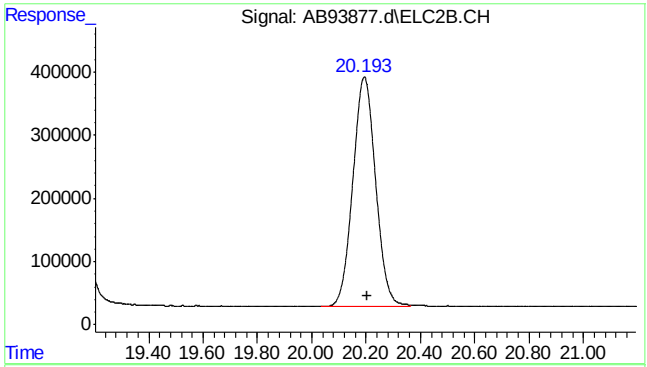
R.T.: 15.138 min
Delta R.T.: -0.010 min
Response: 40577683
Conc: 48.18 ppb m



#17 toluene #2

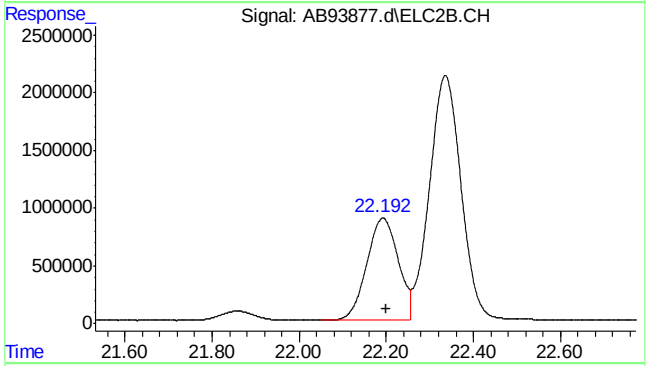
R.T.: 19.093 min
Delta R.T.: -0.013 min
Response: 53981416
Conc: 47.22 ppb m

SGS ACCUTEST MC45538



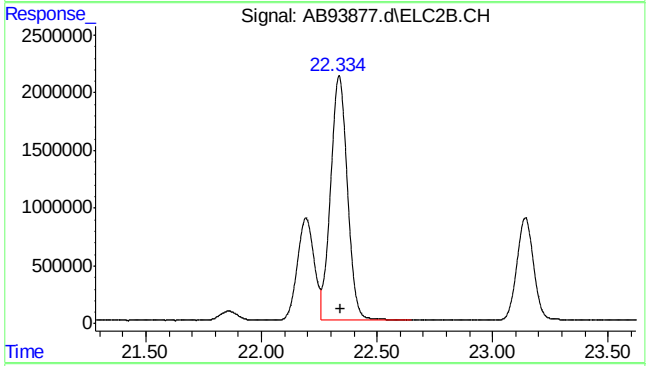
#18 2,3,4-trifluorotoluene #2

R.T.: 20.193 min
Delta R.T.: -0.010 min
Response: 21314693
Conc: 45.65 ppb



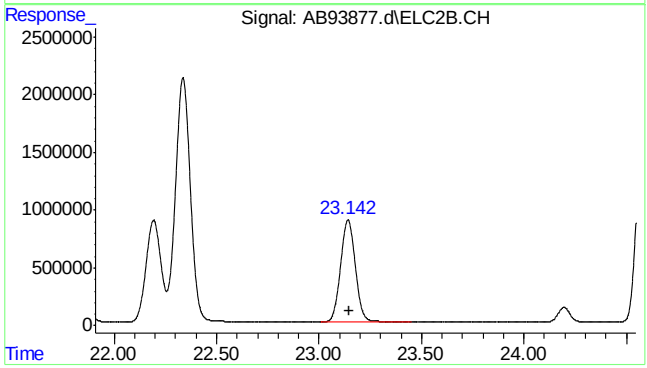
#19 ethylbenzene #2

R.T.: 22.192 min
Delta R.T.: -0.009 min
Response: 44777194
Conc: 48.36 ppb



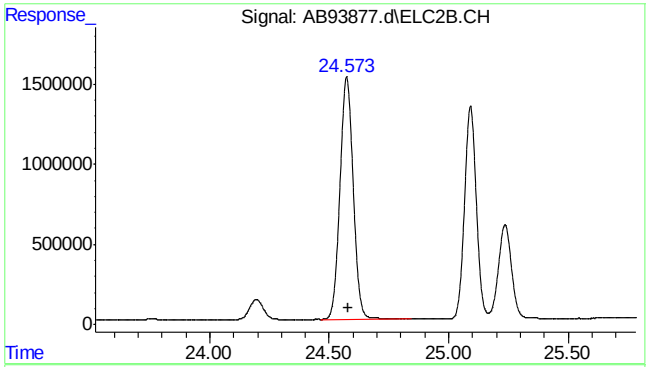
#20 m,p-xylene #2

R.T.: 22.336 min
Delta R.T.: -0.008 min
Response: 108093219
Conc: 101.91 ppb



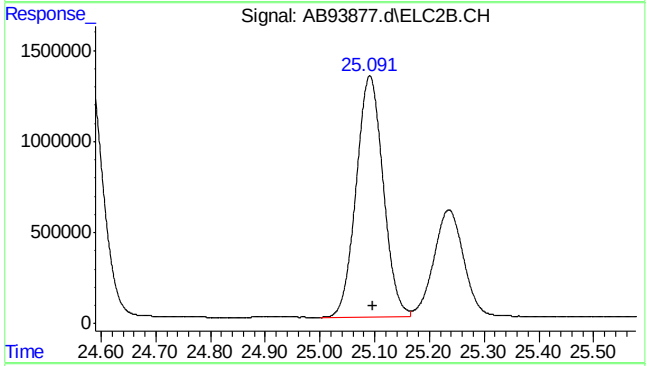
#21 o-xylene #2

R.T.: 23.142 min
Delta R.T.: -0.008 min
Response: 45066257
Conc: 48.24 ppb



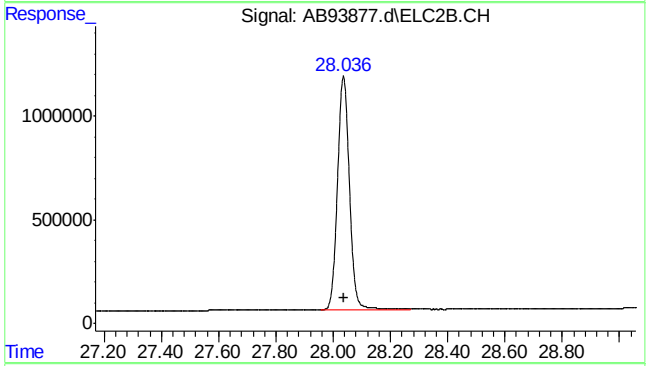
#22 1,3,5-trimethylbenzene #2

R.T.: 24.573 min
Delta R.T.: -0.006 min
Response: 58367004
Conc: 44.67 ppb



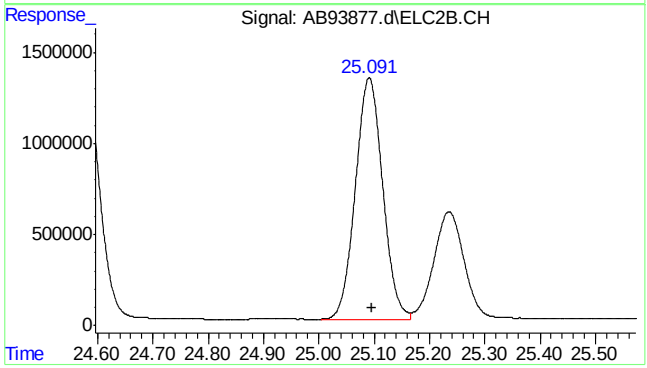
#23 1,2,4-trimethylbenzene #2

R.T.: 25.091 min
Delta R.T.: -0.005 min
Response: 45421976
Conc: 47.46 ppb



#24 naphthalene #2

R.T.: 28.036 min
Delta R.T.: -0.003 min
Response: 32575666
Conc: 45.06 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 45489822
Conc: 47.48 ppb m

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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
20.195min 46.935 ppb
response 19241010

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 11:56:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
20.195min 46.996 ppb m
response 19266116

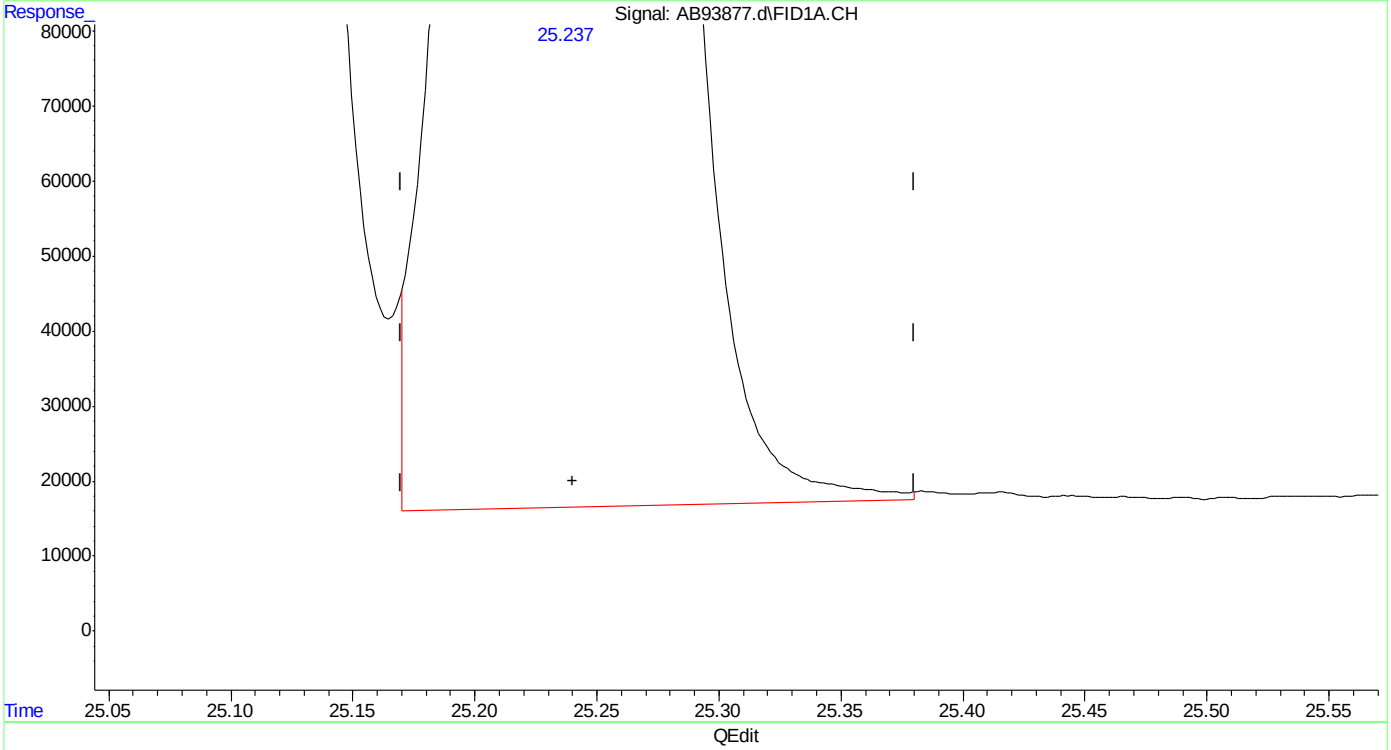
(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 11:56:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 46.884 ppb
response 29372794

(+) = Expected Retention Time

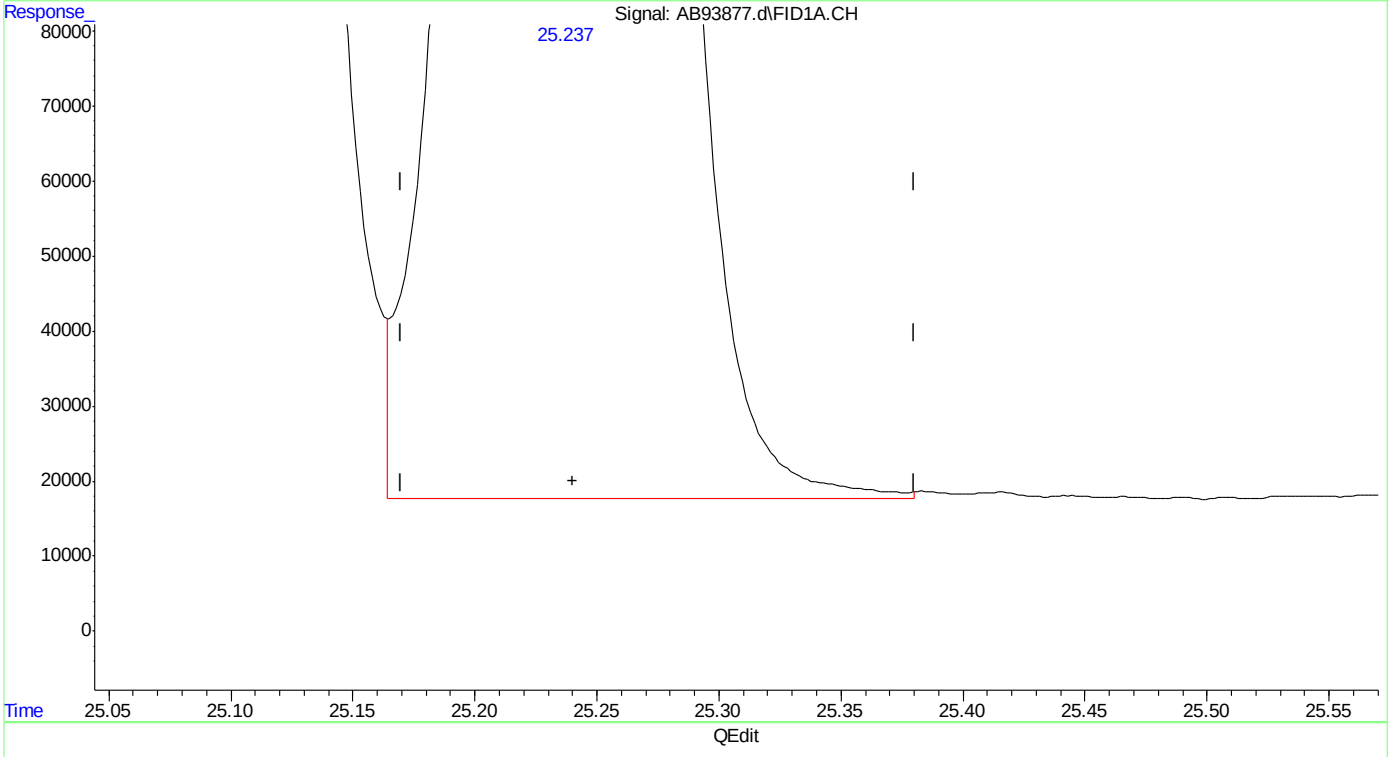
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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 46.857 ppb m
response 29356163

(+) = Expected Retention Time

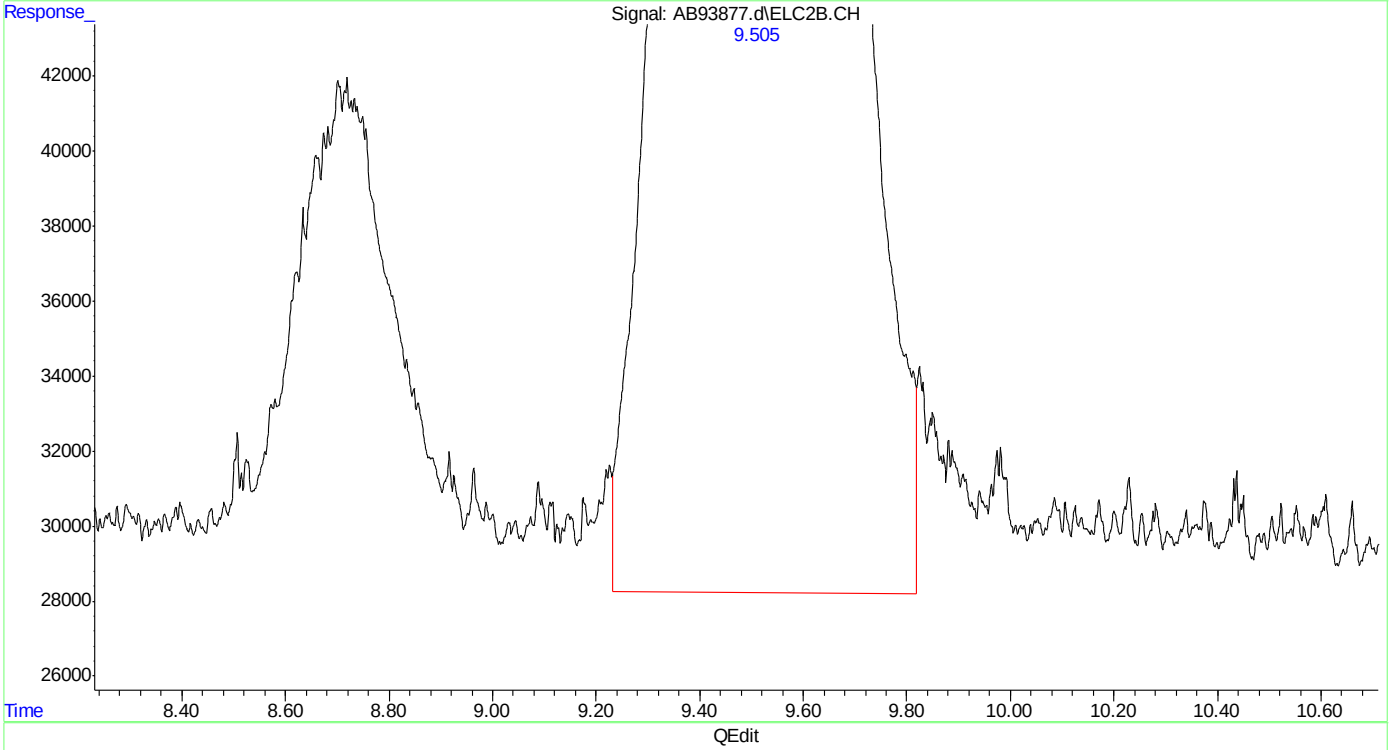
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
9.507min 48.739 ppb
response 24586555

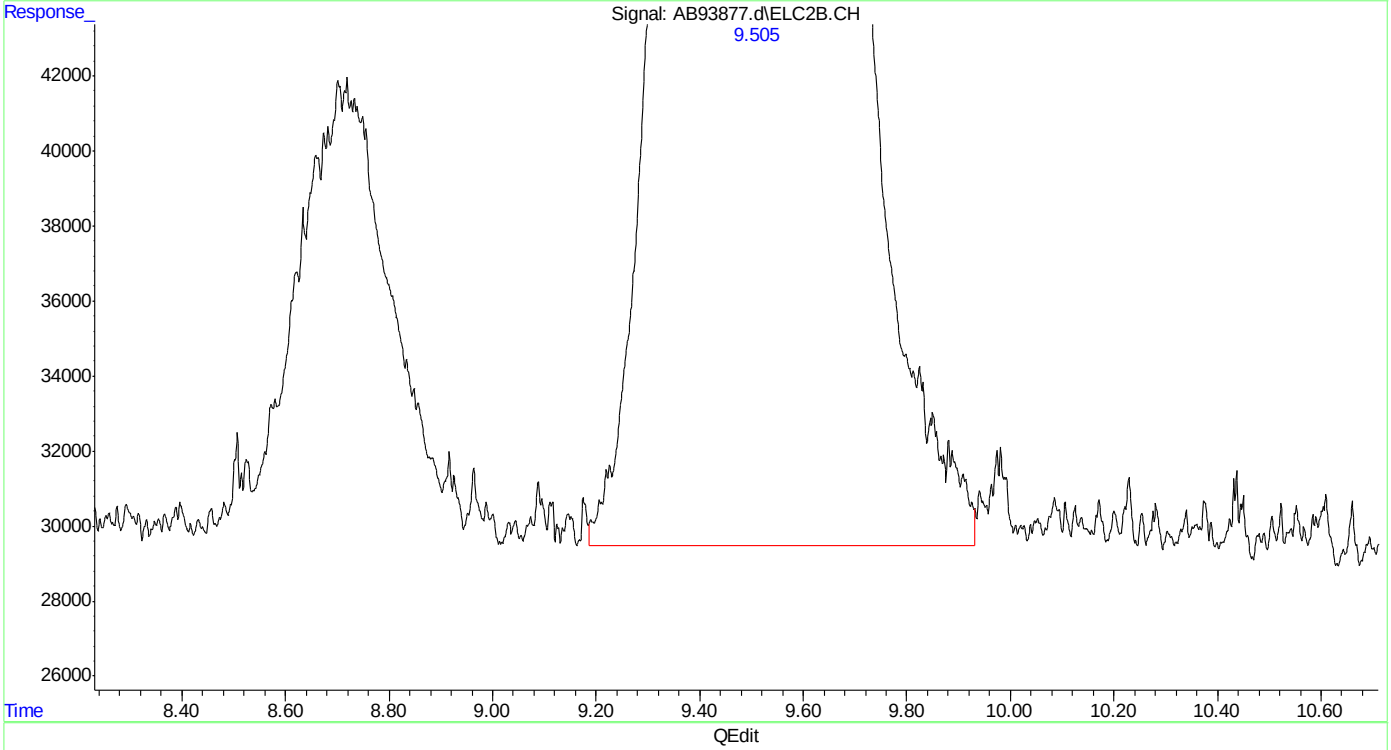
(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 11:56:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
9.505min 48.257 ppb m
response 24343353

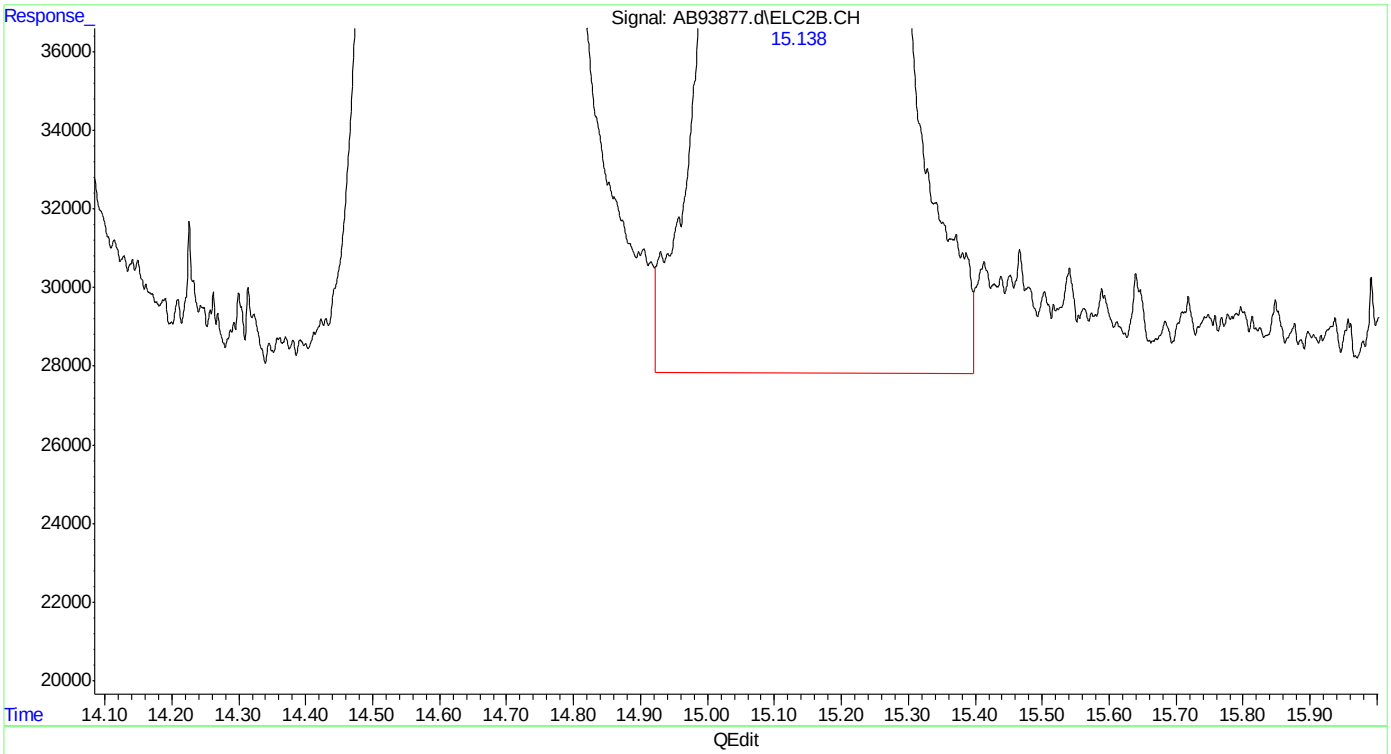
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
15.138min 48.414 ppb
response 40776810

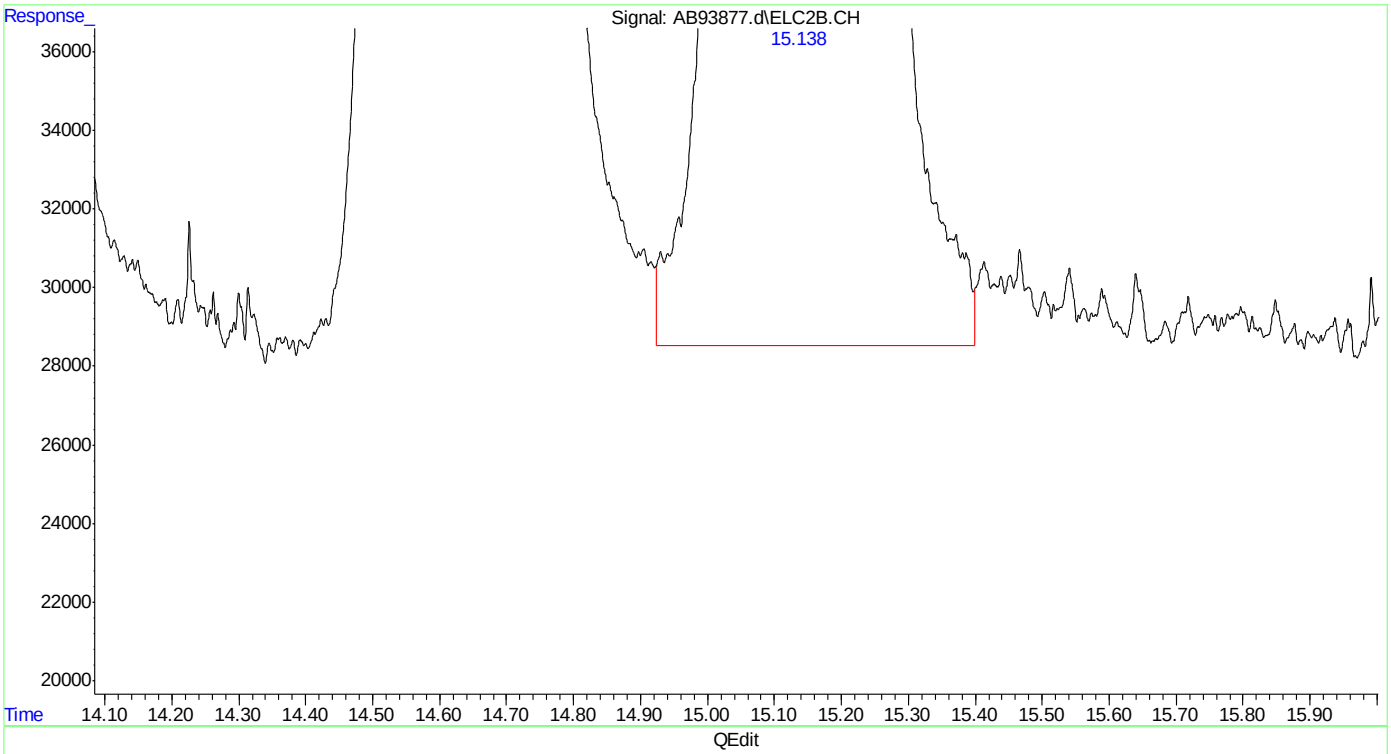
(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 11:57:14 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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)
15.138min 48.178 ppb m
response 40577683

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 11:57:21 2016

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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
19.094min 47.417 ppb
response 54210765

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 11:57:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
19.093min 47.216 ppb m
response 53981416

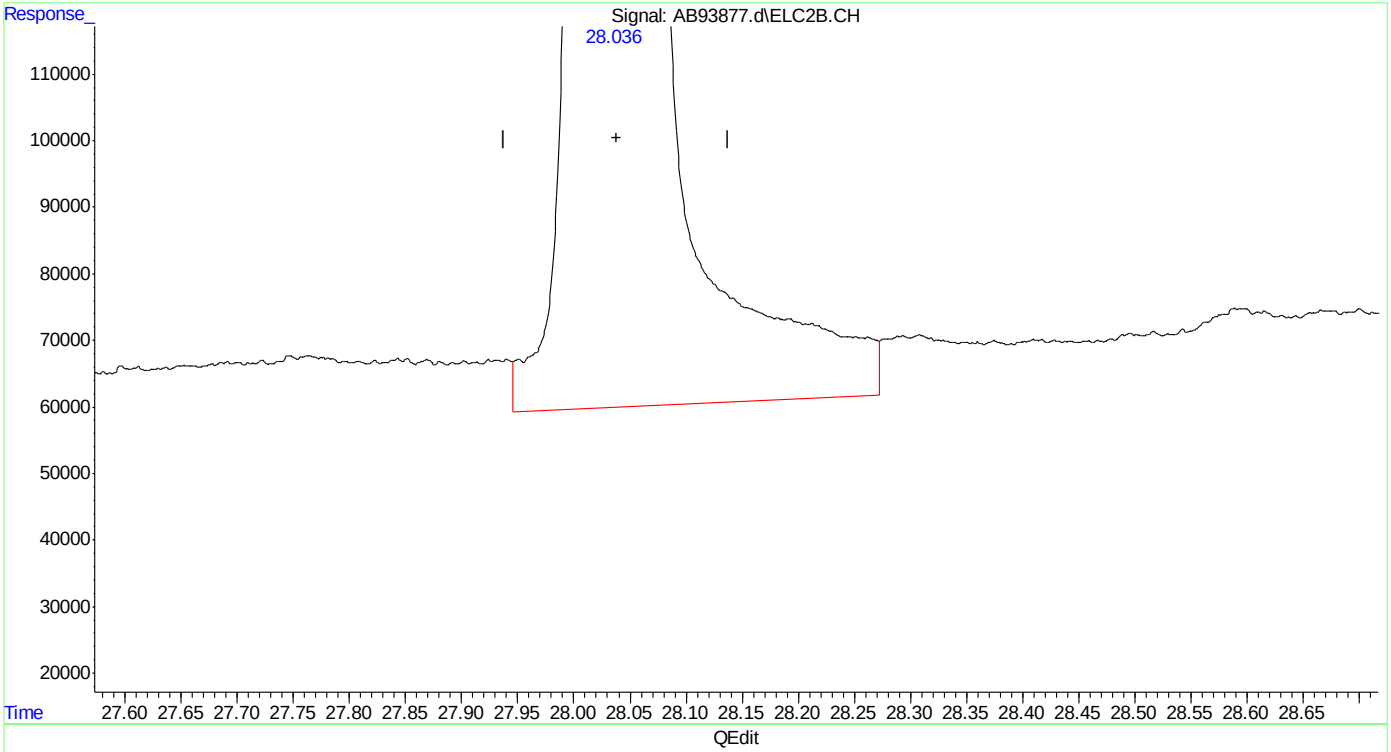
(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 11:57:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
28.036min 46.997 ppb
response 33974383

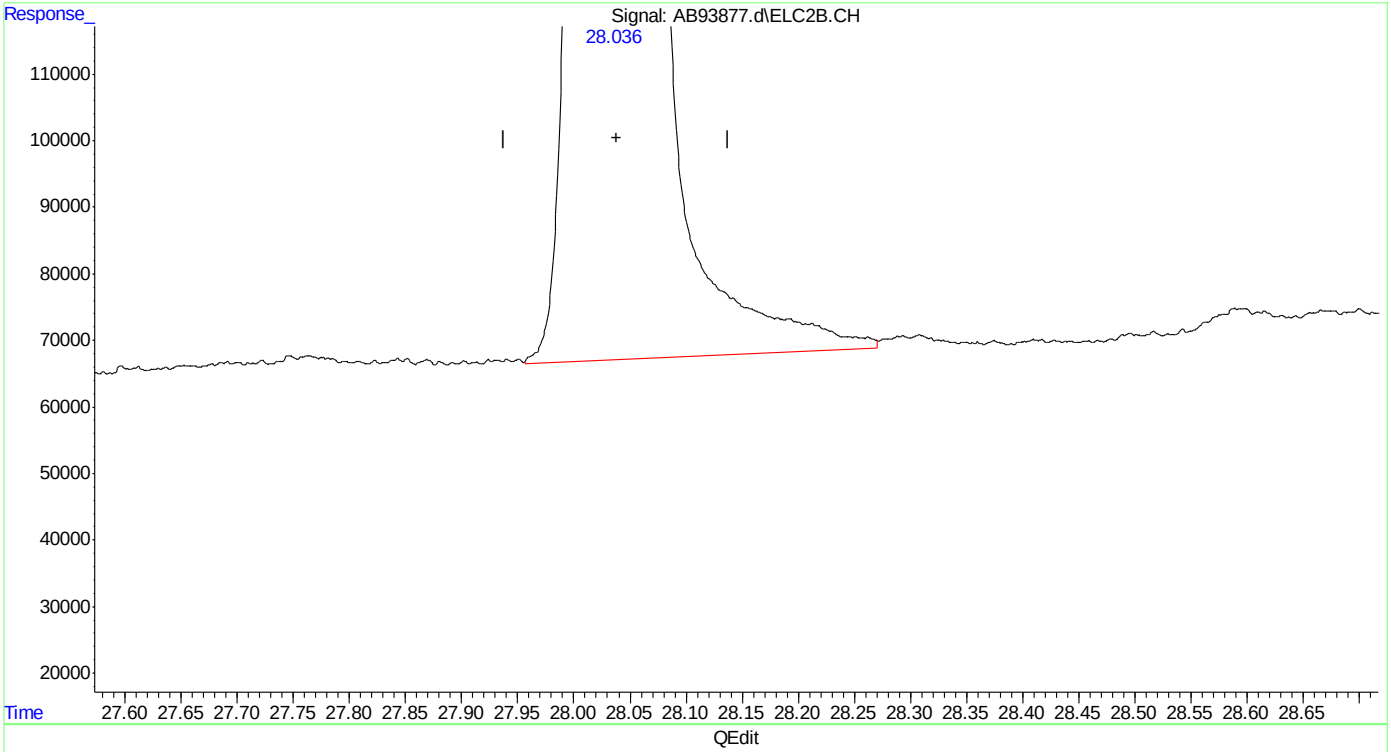
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26185,gab5156,,,,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: Apr 27 11:55:47 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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
28.036min 45.062 ppb m
response 32575666

(+) = Expected Retention Time
ab160427vph.M Wed Apr 27 11:58:00 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 08:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26186,gab5157,,,,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: Apr 27 11:58:08 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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	15.139	21064164	47.858	ppb	
Spiked Amount 50.000		Recovery =	95.72%		
6) s 2,3,4-trifluorotoluene	20.195	19266116	46.996	ppb	m
Spiked Amount 50.000		Recovery =	93.99%		
16) s fluorobenzene #2	15.138	40577683	48.178	ppb	m
Spiked Amount 50.000		Recovery =	96.36%		
18) s 2,3,4-trifluorotoluen...	20.193	21314693	45.654	ppb	
Spiked Amount 50.000		Recovery =	91.31%		
Target Compounds					
1) h rt5.5-7	6.420	10439272	26.000	ppb	m
2) h rt7/10	8.720	15134806	37.695	ppb	m
3) h rt10/13	13.870	20450961	50.935	ppb	m
8) h rt20/25	21.870	26789326	42.760	ppb	m
10) h decane	24.200	26993447	43.086	ppb	
11) h butylcyclohexane	25.240	29356163	46.857	ppb	m
14) mtbe #2	9.505	24343353	48.257	ppb	m
15) benzene #2	14.634	61993628	47.627	ppb	
17) toluene #2	19.093	53981416	47.216	ppb	m
19) ethylbenzene #2	22.192	44777194	48.363	ppb	
20) m,p-xylene #2	22.336	108093219	101.906	ppb	
21) o-xylene #2	23.142	45066257	48.244	ppb	
22) t 1,3,5-trimethylbenzen...	24.573	58367004	44.674	ppb	
23) 1,2,4-trimethylbenzen...	25.091	45421976	47.461	ppb	
24) naphthalene #2	28.036	32575666	45.062	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	45489822	47.482	ppb	m

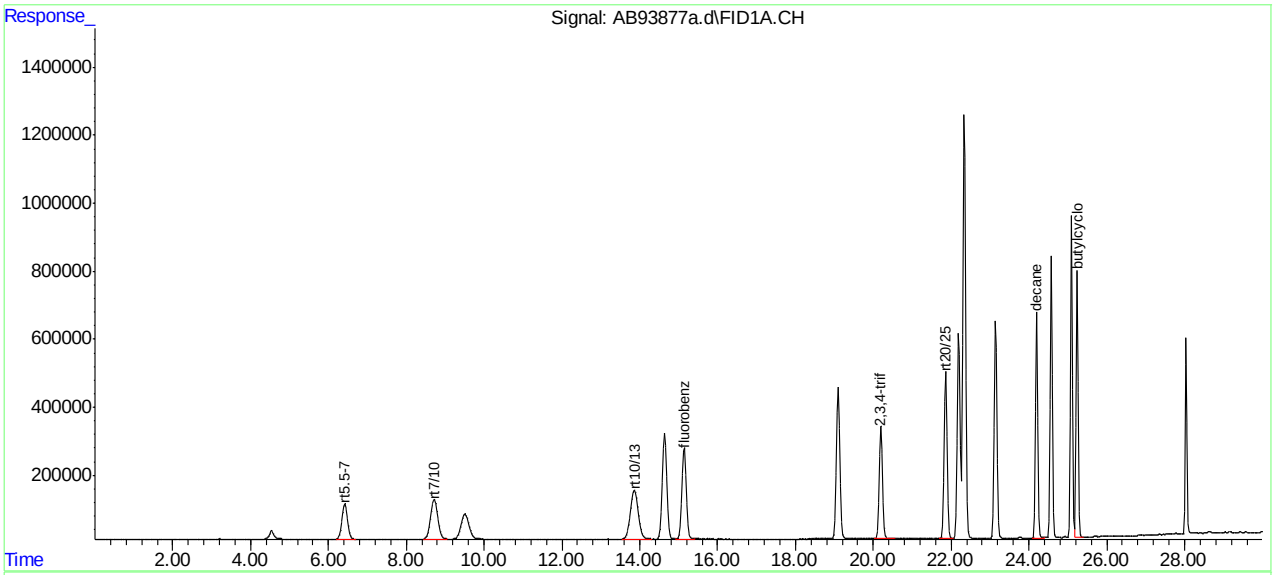
(f)=RT Delta > 1/2 Window (m)=manual int.

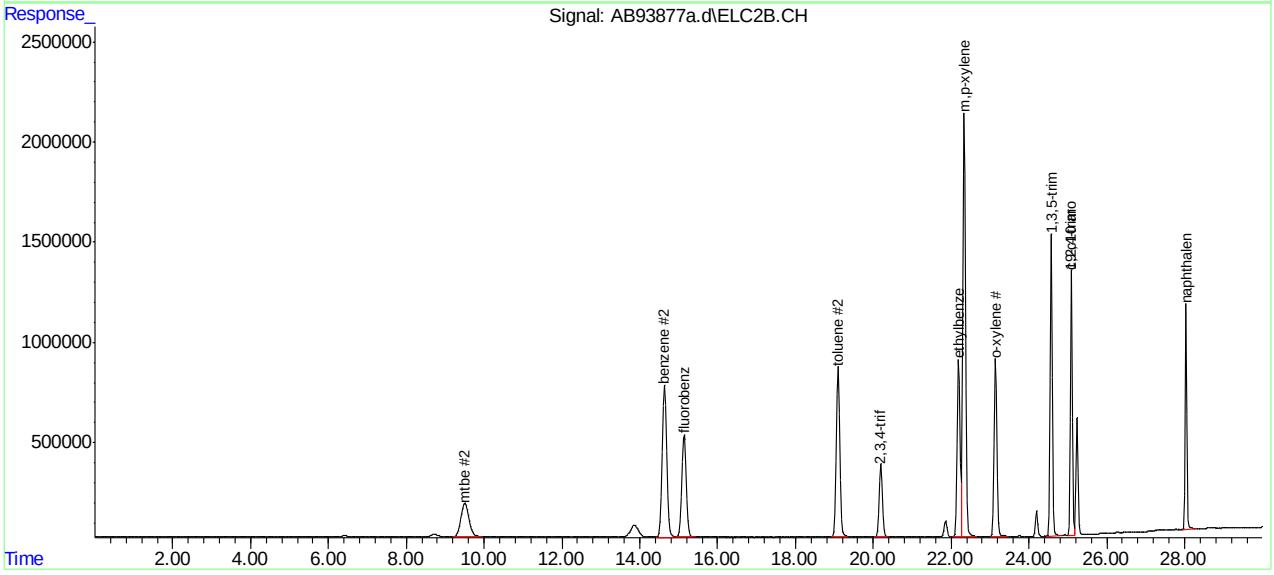
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93877a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 11:15:01
Operator : danielf
Sample : cc5058-50
Misc : gc26186,gab5157,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

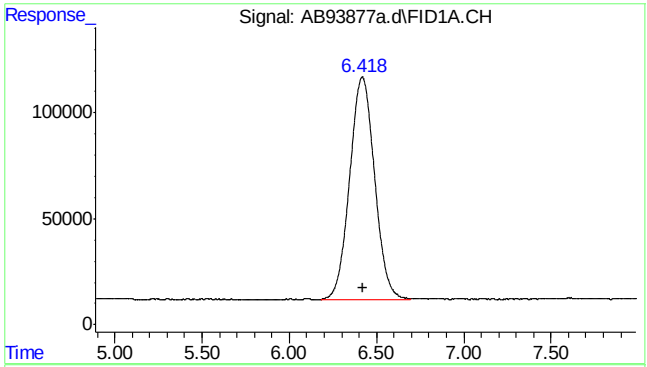
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 27 11:58:08 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



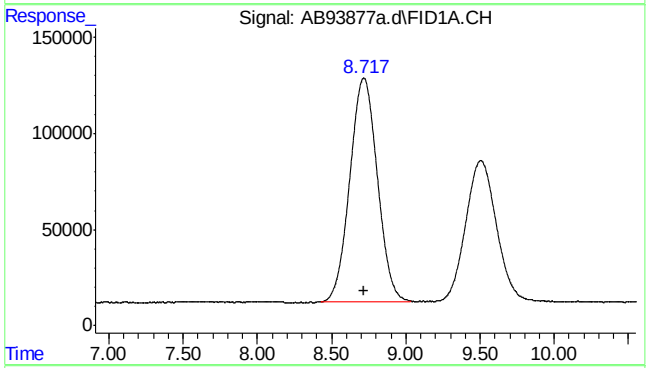


SGS ACCUTEST MC45538



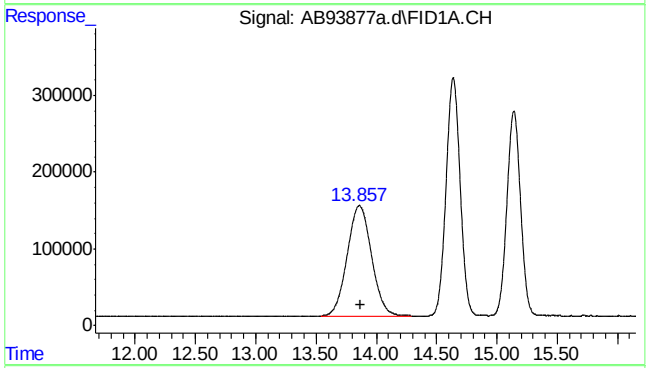
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 10439272
Conc: 26.00 ppb m



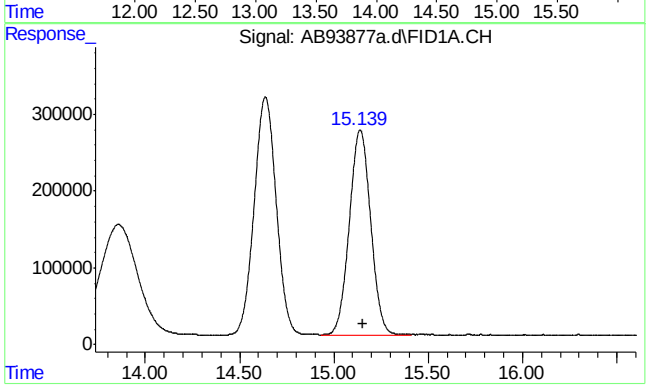
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 15134806
Conc: 37.69 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 20450961
Conc: 50.94 ppb m



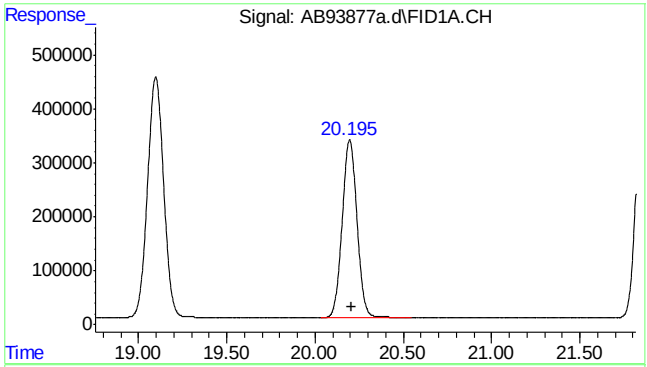
#4 fluorobenzene

R.T.: 15.139 min
Delta R.T.: -0.012 min
Response: 21064164
Conc: 47.86 ppb

7.4.12

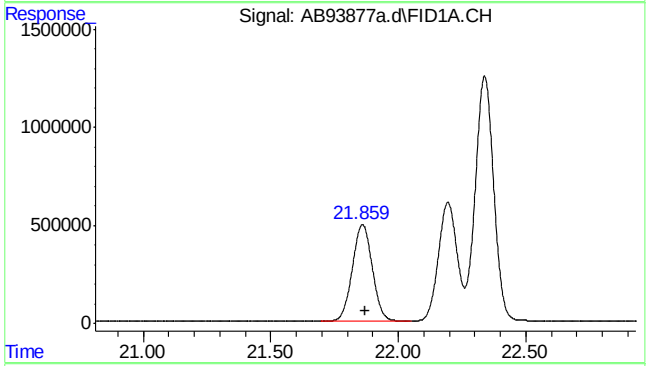
7

SGS ACCUTEST MC45538



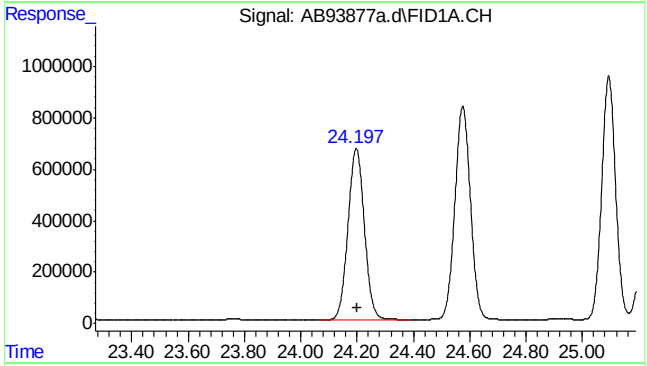
#6 2,3,4-trifluorotoluene

R.T.: 20.195 min
Delta R.T.: -0.011 min
Response: 19266116
Conc: 47.00 ppb m



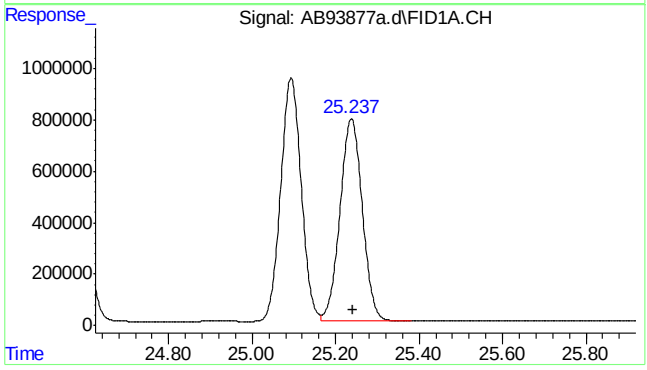
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26789326
Conc: 42.76 ppb m



#10 decane

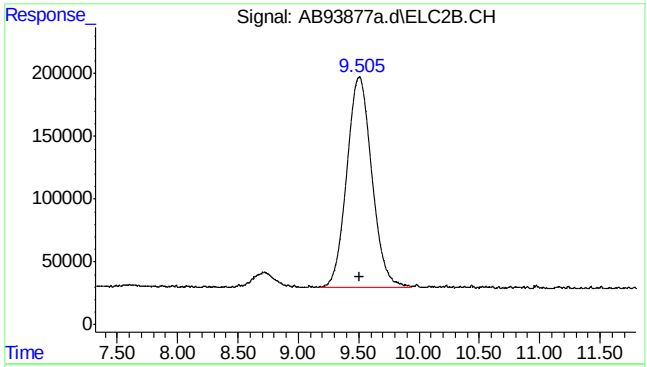
R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 26993447
Conc: 43.09 ppb



#11 butylcyclohexane

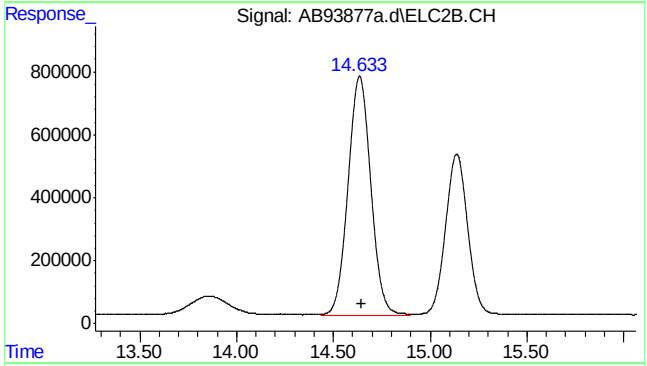
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29356163
Conc: 46.86 ppb m

SGS ACCUTEST MC45538



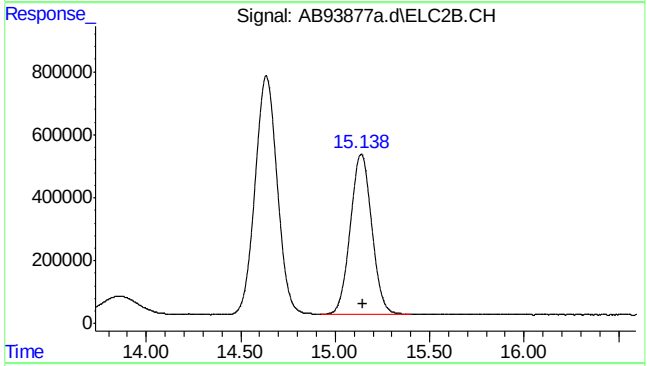
#14 mtbe #2

R.T.: 9.505 min
Delta R.T.: -0.006 min
Response: 24343353
Conc: 48.26 ppb m



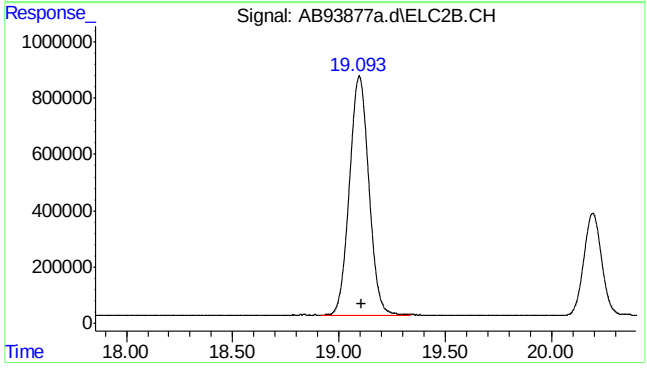
#15 benzene #2

R.T.: 14.634 min
Delta R.T.: -0.012 min
Response: 61993628
Conc: 47.63 ppb



#16 fluorobenzene #2

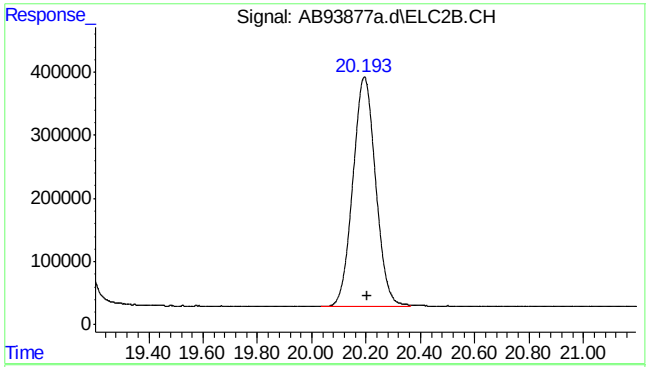
R.T.: 15.138 min
Delta R.T.: -0.010 min
Response: 40577683
Conc: 48.18 ppb m



#17 toluene #2

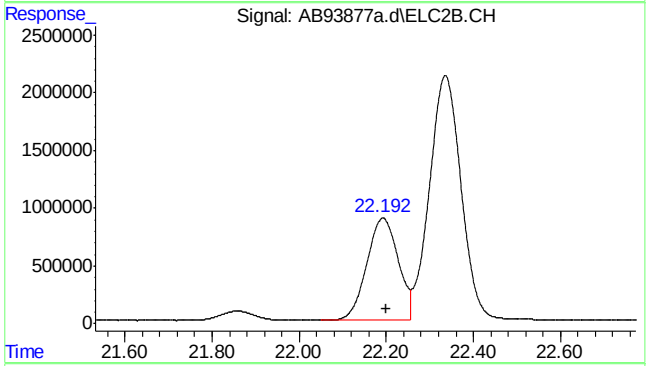
R.T.: 19.093 min
Delta R.T.: -0.013 min
Response: 53981416
Conc: 47.22 ppb m

SGS ACCUTEST MC45538



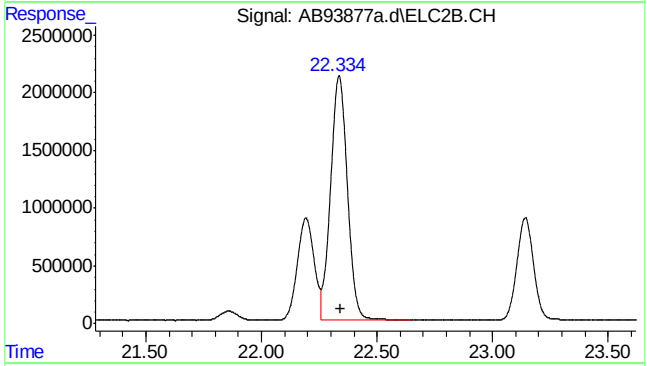
#18 2,3,4-trifluorotoluene #2

R.T.: 20.193 min
Delta R.T.: -0.010 min
Response: 21314693
Conc: 45.65 ppb



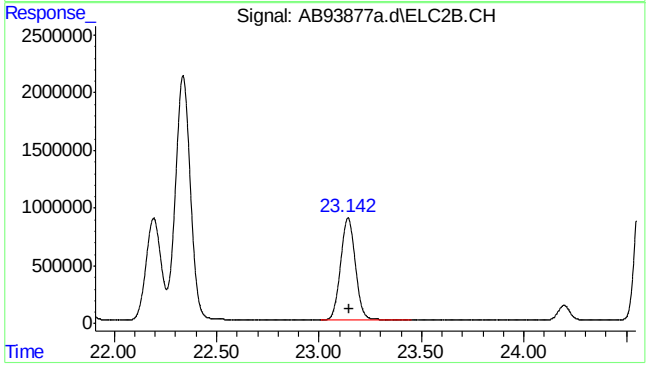
#19 ethylbenzene #2

R.T.: 22.192 min
Delta R.T.: -0.009 min
Response: 44777194
Conc: 48.36 ppb



#20 m,p-xylene #2

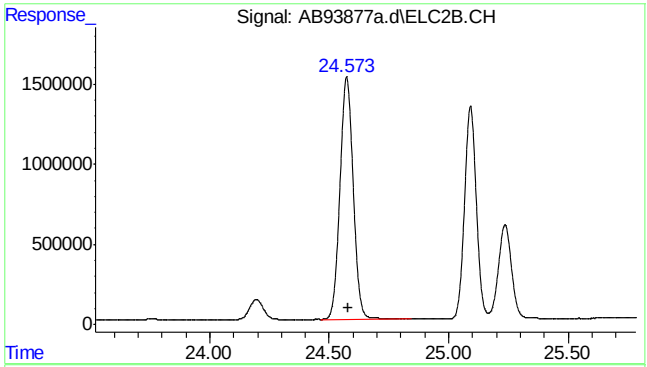
R.T.: 22.336 min
Delta R.T.: -0.008 min
Response: 108093219
Conc: 101.91 ppb



#21 o-xylene #2

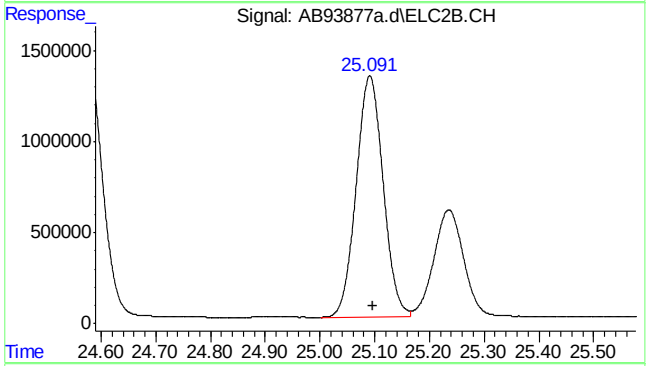
R.T.: 23.142 min
Delta R.T.: -0.008 min
Response: 45066257
Conc: 48.24 ppb

SGS ACCUTEST MC45538



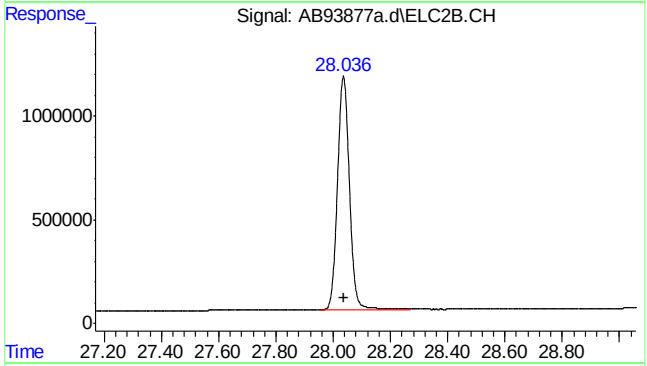
#22 1,3,5-trimethylbenzene #2

R.T.: 24.573 min
Delta R.T.: -0.006 min
Response: 58367004
Conc: 44.67 ppb



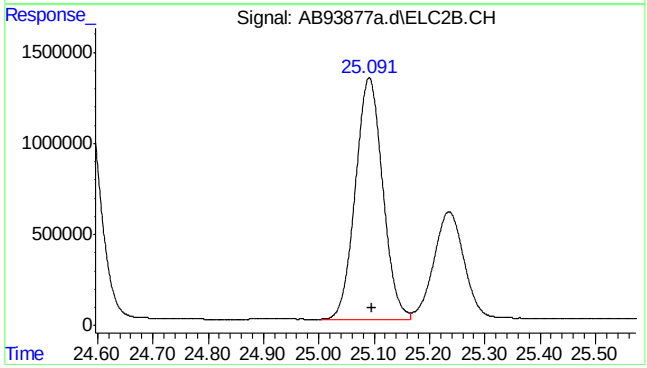
#23 1,2,4-trimethylbenzene #2

R.T.: 25.091 min
Delta R.T.: -0.005 min
Response: 45421976
Conc: 47.46 ppb



#24 naphthalene #2

R.T.: 28.036 min
Delta R.T.: -0.003 min
Response: 32575666
Conc: 45.06 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 45489822
Conc: 47.48 ppb m

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 08:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93887a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 17:41:23
Operator : danielf
Sample : cc5058-50
Misc : gc26186,gab5157,,,,5,1
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 27 18:23:48 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.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	15.141	20858620	47.391	ppb	m
Spiked Amount 50.000		Recovery = 94.78%			
6) s 2,3,4-trifluorotoluene	20.198	19125207	46.652	ppb	m
Spiked Amount 50.000		Recovery = 93.30%			
16) s fluorobenzene #2	15.139	38563486	45.787	ppb	m
Spiked Amount 50.000		Recovery = 91.57%			
18) s 2,3,4-trifluorotoluen...	20.197	20430690	43.760	ppb	m
Spiked Amount 50.000		Recovery = 87.52%			
Target Compounds					
1) h rt5.5-7	6.420	9874127	24.593	ppb	m
2) h rt7/10	8.720	14655845	36.502	ppb	m
3) h rt10/13	13.870	21221265	52.854	ppb	m
8) h rt20/25	21.870	27114722	43.279	ppb	m
10) h decane	24.200	27674713	44.173	ppb	
11) h butylcyclohexane	25.240	29809341	47.580	ppb	m
14) mtbe #2	9.503	23819186	47.218	ppb	m
15) benzene #2	14.636	58830505	45.197	ppb	m
17) toluene #2	19.100	52046832	45.524	ppb	m
19) ethylbenzene #2	22.195	43307898	46.776	ppb	
20) m,p-xylene #2	22.339	105410548	99.377	ppb	
21) o-xylene #2	23.145	43748060	46.832	ppb	
22) t 1,3,5-trimethylbenzen...	24.576	56839146	43.505	ppb	
23) 1,2,4-trimethylbenzen...	25.094	44188524	46.172	ppb	
24) naphthalene #2	28.038	35311121	48.846	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	44257822	46.196	ppb	m

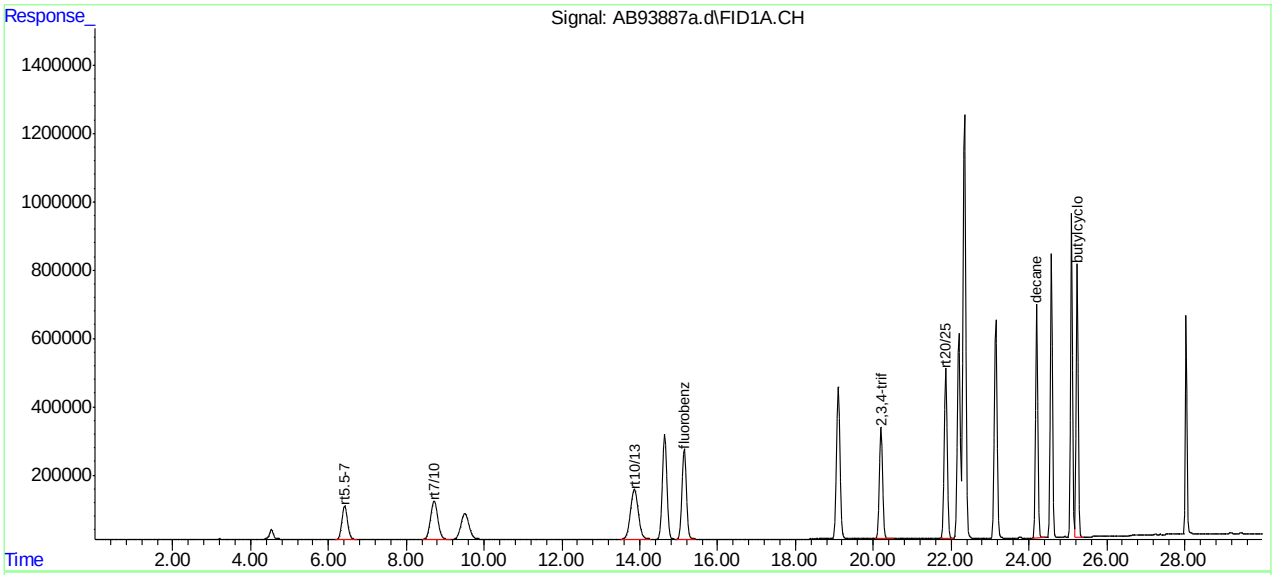
(f)=RT Delta > 1/2 Window (m)=manual int.

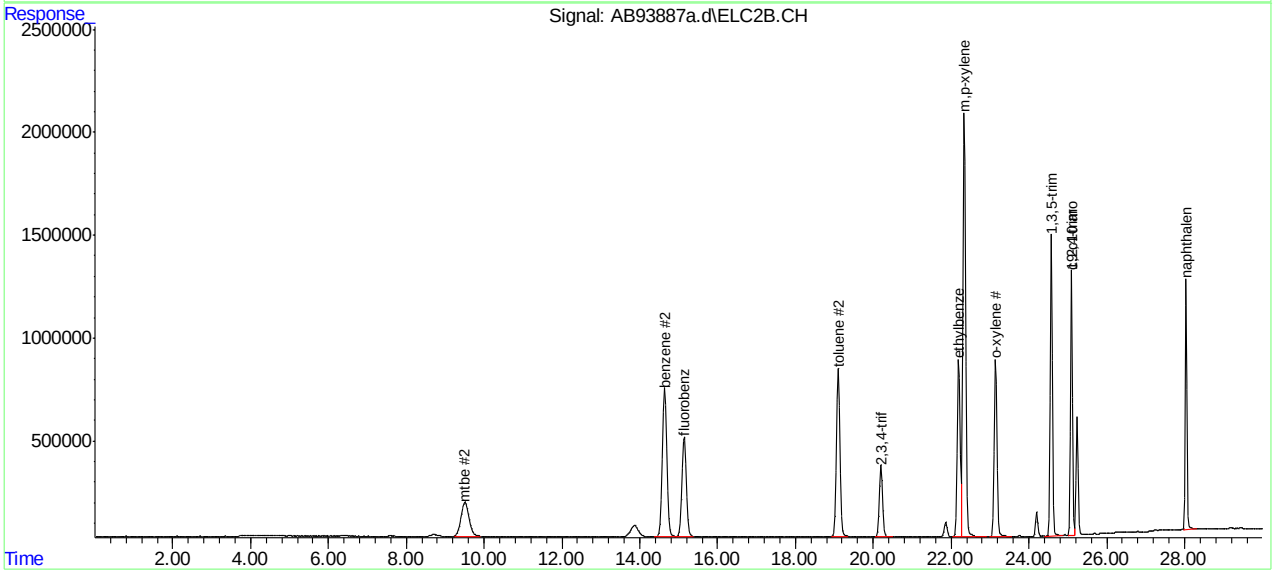
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160427\
Data File : AB93887a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 27-Apr-16, 17:41:23
Operator : danielf
Sample : cc5058-50
Misc : gc26186,gab5157,,,,5,1
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

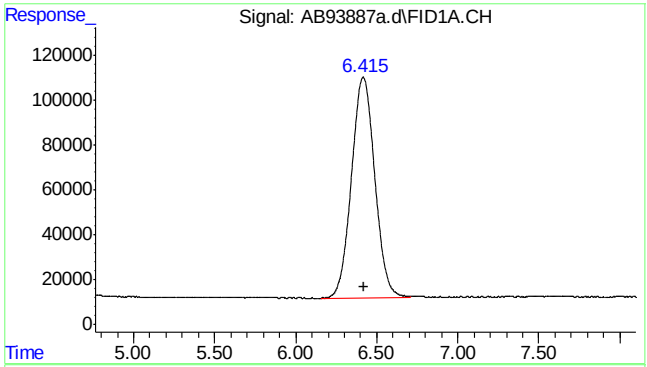
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 27 18:23:48 2016
Quant Method : C:\msdchem\1\methods\ab160427vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



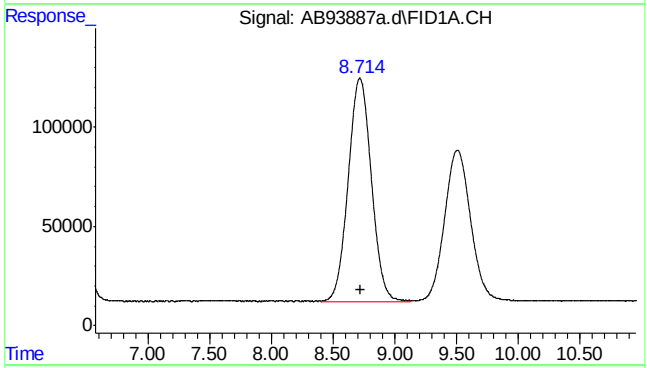


SGS ACCUTEST MC45538



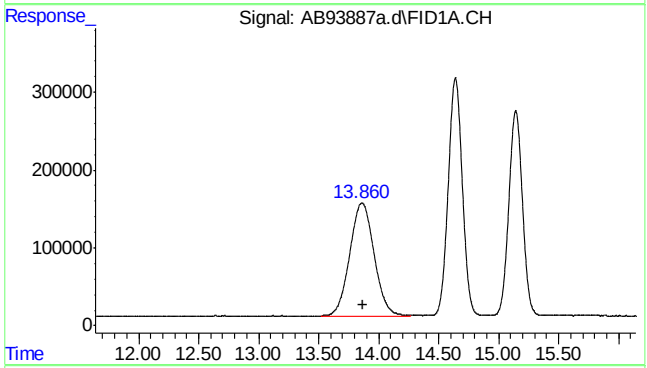
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 9874127
Conc: 24.59 ppb m



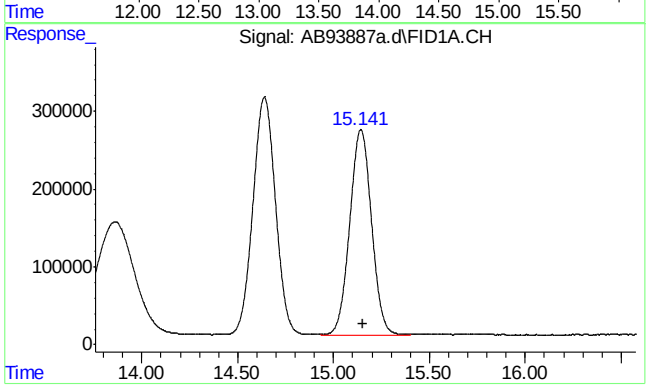
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 14655845
Conc: 36.50 ppb m



#3 rt10/13

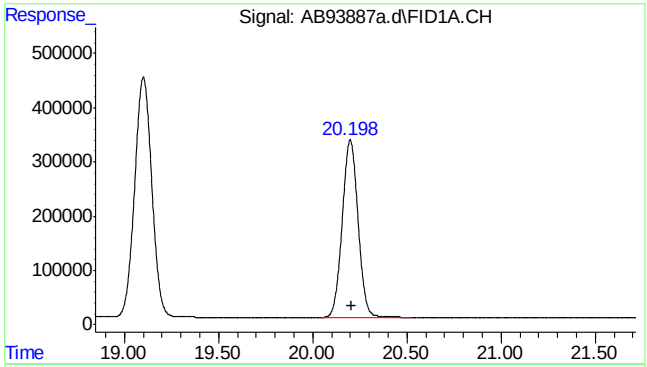
R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21221265
Conc: 52.85 ppb m



#4 fluorobenzene

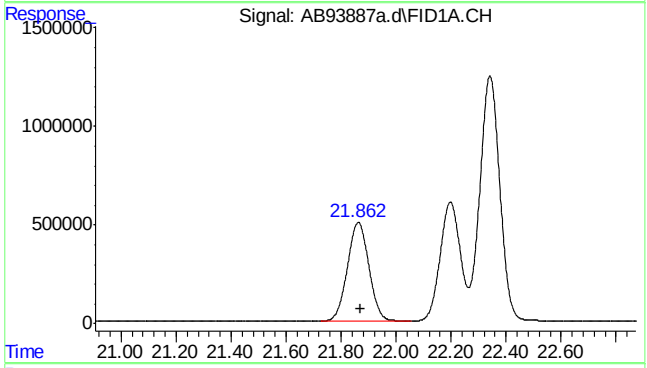
R.T.: 15.141 min
Delta R.T.: -0.010 min
Response: 20858620
Conc: 47.39 ppb m

SGS ACCUTEST MC45538



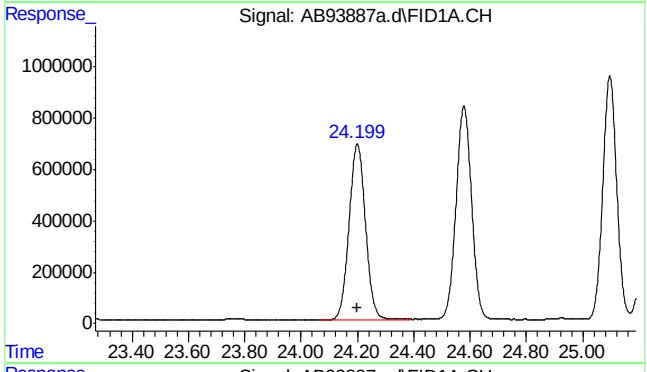
#6 2,3,4-trifluorotoluene

```
      R.T.:   20.198 min
Delta R.T.:   -0.007 min
  Response:  19125207
      Conc:  46.65 ppb m
```



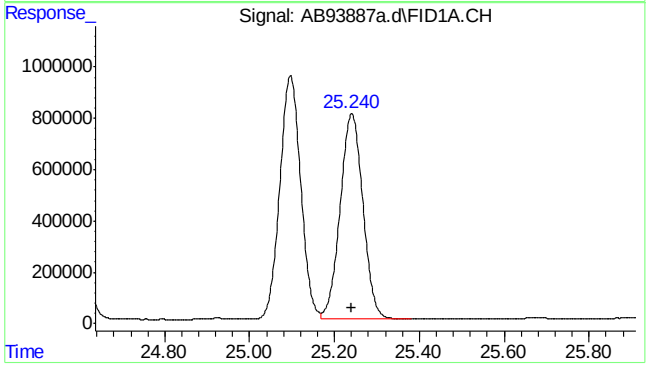
#8 rt20/25

```
      R.T.:   21.870 min
Delta R.T.:    0.000 min
  Response:  27114722
      Conc:  43.28 ppb m
```



#10 decane

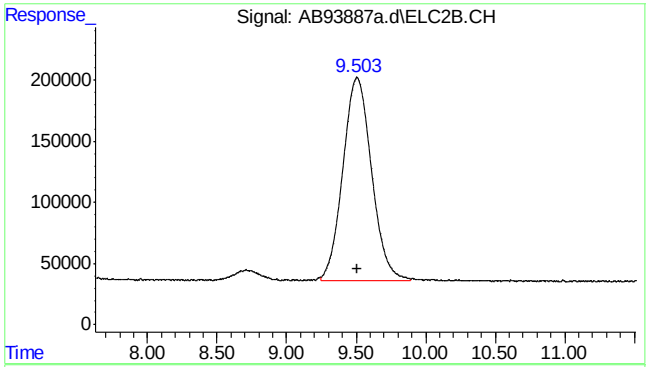
```
      R.T.:   24.200 min
Delta R.T.:    0.000 min
  Response:  27674713
      Conc:  44.17 ppb
```



#11 butylcyclohexane

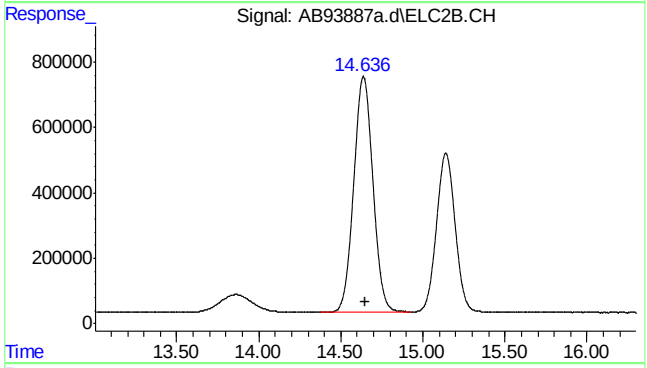
```
      R.T.:   25.240 min
Delta R.T.:    0.000 min
  Response:  29809341
      Conc:  47.58 ppb m
```


SGS ACCUTEST MC45538



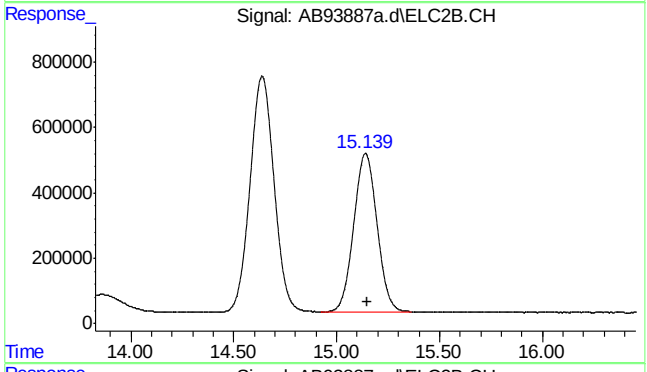
#14 mtbe #2

R.T.: 9.503 min
Delta R.T.: -0.008 min
Response: 23819186
Conc: 47.22 ppb m



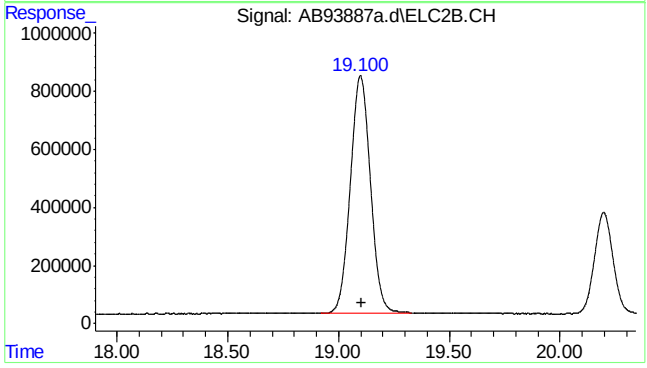
#15 benzene #2

R.T.: 14.636 min
Delta R.T.: -0.010 min
Response: 58830505
Conc: 45.20 ppb m



#16 fluorobenzene #2

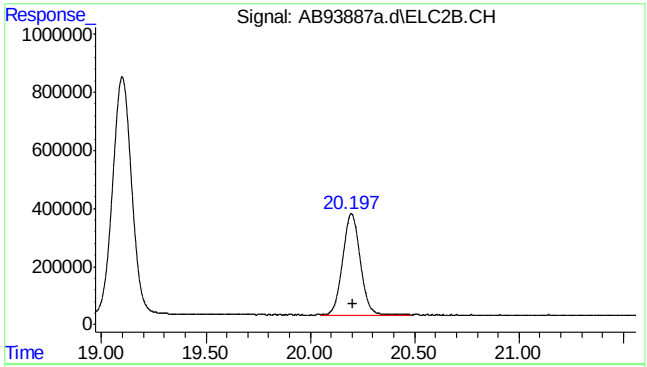
R.T.: 15.139 min
Delta R.T.: -0.009 min
Response: 38563486
Conc: 45.79 ppb m



#17 toluene #2

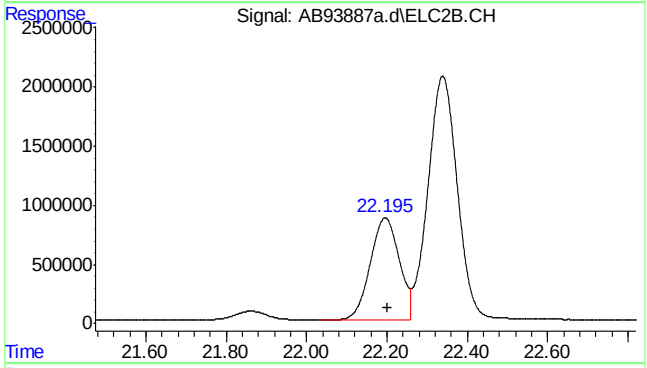
R.T.: 19.100 min
Delta R.T.: -0.006 min
Response: 52046832
Conc: 45.52 ppb m

SGS ACCUTEST MC45538



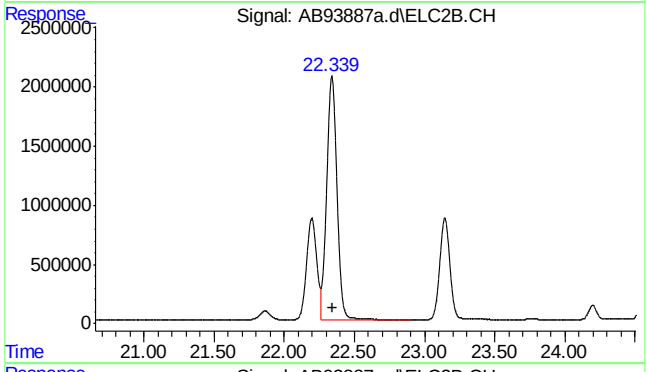
#18 2,3,4-trifluorotoluene #2

R.T.: 20.197 min
Delta R.T.: -0.006 min
Response: 20430690
Conc: 43.76 ppb m



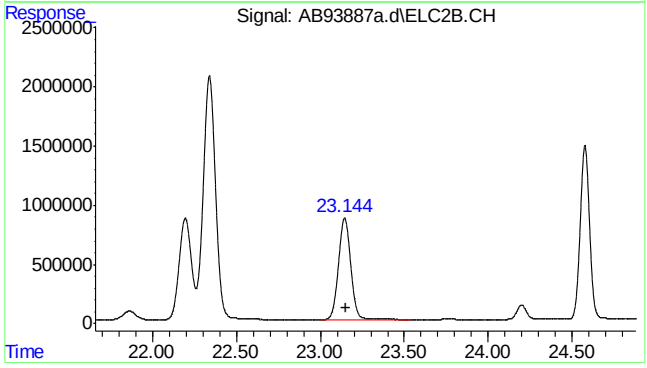
#19 ethylbenzene #2

R.T.: 22.195 min
Delta R.T.: -0.006 min
Response: 43307898
Conc: 46.78 ppb



#20 m,p-xylene #2

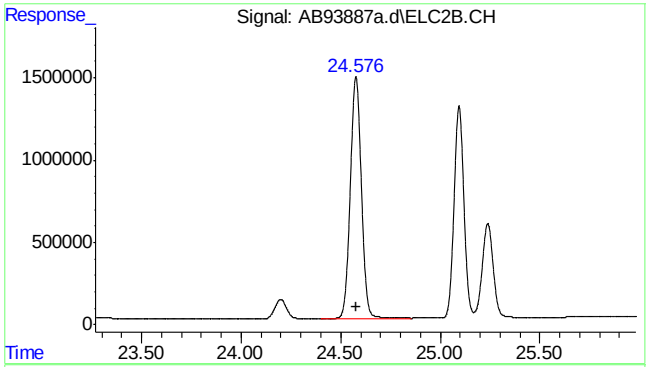
R.T.: 22.339 min
Delta R.T.: -0.005 min
Response: 105410548
Conc: 99.38 ppb



#21 o-xylene #2

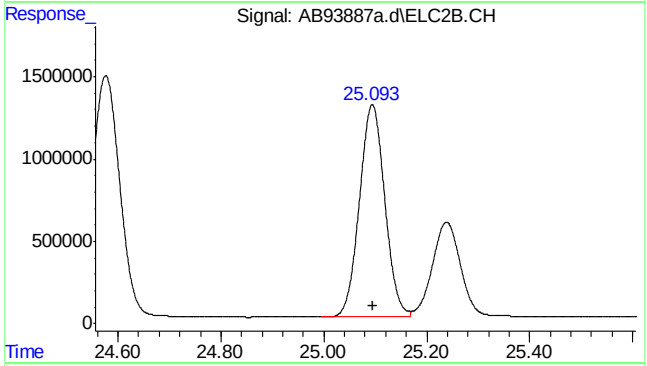
R.T.: 23.145 min
Delta R.T.: -0.005 min
Response: 43748060
Conc: 46.83 ppb

SGS ACCUTEST MC45538



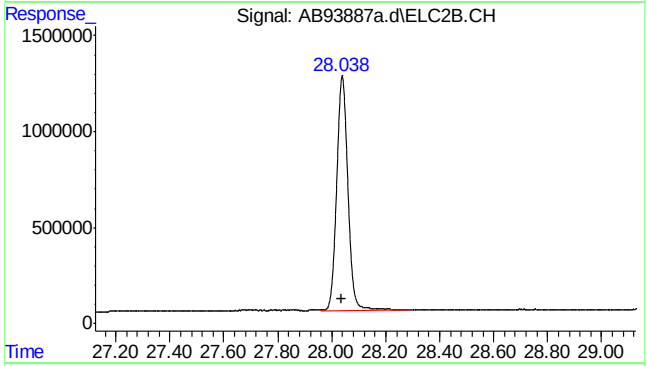
#22 1,3,5-trimethylbenzene #2

R.T.: 24.576 min
Delta R.T.: -0.003 min
Response: 56839146
Conc: 43.50 ppb



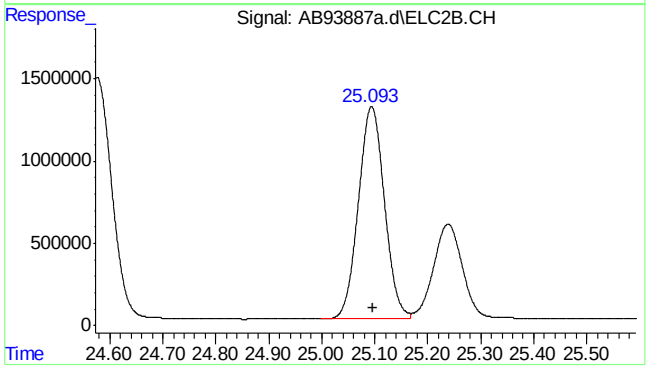
#23 1,2,4-trimethylbenzene #2

R.T.: 25.094 min
Delta R.T.: -0.002 min
Response: 44188524
Conc: 46.17 ppb



#24 naphthalene #2

R.T.: 28.038 min
Delta R.T.: 0.000 min
Response: 35311121
Conc: 48.85 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 44257822
Conc: 46.20 ppb m

SGS ACCUTEST MC45538

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
gv16253	VPH STD	50ug/mL 2/11/16
gv16254	↓	5ug/mL
gv16255	↓	1ug/mL
gv16256	VPH 2nd source	50ug/mL
gv16249	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 gv16253		1/5mL 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 gv16254		1/5mL DI		5ug/mL STD
90	-5				7		5ML	↓	↓		↓
91	-2				8		10ML gv16255		1/5mL DI		1ug/mL STD
92	-1				9		5ML	↓	↓		↓
93	icv5058-50				10		5ML gv16256		1/5mL DI		VPH 2nd source 50ug/L STD
94	ccs5058-50	↓	↓	↓	11	↓	1mL of gv16249	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.

C:\msdchem\1\data\ab160112\AB92593.d

Operator
Date Acquired
Method Reference: ABIGCOIIZVPHMASTER.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	167372210	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

Page 1 of 1

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: 4/27/16 Analyst Signature: DJF

Standards Data

Lot #	Description	Conc
VMAVPH Soil	GC26185	gab5156
VMAVPH AQ	GC26186	gab5157

A F.105

Standards Data

Lot #	Description	Conc
gv16344	cc/bsp 250µg/mL	5/11/16
gv16345	surr ↓	↓
gv16347	Soil surr 50µg/mL	5/12/16
gv16363	VPH std 50µg/mL	5/19/16

Column: mtx502.2
Method: ABVPH1
GC Seq. File: AB160427.S
Method Files: AB160427VPH cc5058-50 1-1, 2-2, 3-3, 4-4, 5-5,
AS Seq. File: 6-7, 8-10, 11-11

Date of ICAL: 1-12-16 ICAL Verified: Seq. Verification: DJF

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
AB93877.a	Concal 50	N/A	GC26185	VMAVPH	1	W	1µL gv16344	N/A	N/A	N/A	
78.a	mb	↓	↓	↓	2	S	5mL of 1mL/50mL	FV DI	↓	↓	
79.a	bsp	↓	↓	↓	3	↓	100µL into 5mL FV DI	N/A	↓	↓	
80.a	bsd	↓	↓	↓	4	↓	↓	↓	↓	↓	
81.	known 481	1	↓	↓	5	W	5mL of 100µL/100mL	FV DI	↓	↓	
82.	MC45538-2	3	15.64 g	↓	6	S	5mL of 1mL/50mL	FV N/A	↓	↓	
83.	MC45453-23	1	15.005 g	↓	7	↓	↓	↓	↓	↓	
84.	MC45511-4	2	GC26186	↓	8	W	5mL of 10mL/50mL	FV DI	1:5	↓	
85.	MC45513-1	2	↓	↓	9	↓	↓	↓	↓	↓	
86.	-2	2	↓	↓	10	↓	↓	↓	↓	↓	
87.a	Concal 50	N/A	GC26185	↓	11	↓	1µL gv16344	N/A	N/A	N/A	
88.	Concal 50	↓	↓	VMAVPH	12	W	5µL gv16363 into 5mL	FV DI	↓	↓	First check in, not needed

DJF 4/28/16

GC001-05 Date: 12/02/08 Dilution Solvent: _____ pH Paper Hydrion Exp 6/15/18 Lot Number: 216315 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.

5

4/27/16 DJF

VMAVPH Soil

MB Extract 16g Sand EMD 15K160016 + 15 mL MeOH Fisher 157266 + 1 mL Surrogate 50 µg/mL gv16347 Exp. 5/12/16

For OI → 1 mL Extract into 50 mL FV DI
Surrogate target 62.5 ppb

bsp/bsd

Extract 20 g Sand 15K160016
19 mL MeOH Fisher 157266
1 mL Surrogate gv16347 50µg/mL Exp. 5/12/16
50µL SMA 121 1,000µg/mL gv16265M Lot CM-3228
open 4/5/16 Exp. 10/5/16 orig. Exp. 7/31/18
10µL 1,3,5-TMB 5,000µg/mL gv16165G1 CK-3472
open 4/20/16 Exp. 10/20/16
orig Exp. 11/30/17
Manual Injection → 100µL Extract
into 5mL FV DI

pg. 00004a

SGS ACCUTEST MC45538

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
JC18929-1	1	22-APR-16	10.042	N/A	N/A	10ml	4/27/16 11:45	GBJ	TA
JC18422-2		14-APR-16	10.887						
JC18219-1		12-APR-16	10.891						
-2			10.726						
-3			10.693						
-4			10.502						
JC18126-1		11-APR-16	10.704						
-2			10.474						
-3			10.615						
-4			10.299						
MC45418-1MS	6	4/19/16 1013	4.794	NA	NA	5ml	4/27/16 1148	MSM	KP
MC45387-3MS	5	4/14/16 1410	4.823						
-3MSD			4.981						
JC18219-4MS	1	12-APR-16	10.612	N/A	N/A	10ml	4/27/16 12:45	GBJ	TA
-4MSD			10.486						
MC45453-23	1	4/27/16 14:33	15.005	15mL + 1mL surr			4/27/16 14:33	gab	DJF *
Vmoist soil	mb	8:08 4/28/16	16.000g	15ml + 1ma surr			4/28/16 8:08	gab	aef *
	bsp	8:10	20.000g	18ml meoH 1ml surr 1ml spike			8:10	gab	aef *
MC45549-1	2	4-25-16 0900	11.695	10ml	N/A	N/A	4-28-16 1153	MSG	TAB
-2	2	1000	10.489						
-3	1	1100	11.178						
-4	1	1200	11.092						
-5	1	1030	11.231						
-6	2	1200	11.623						
-7	2	4-26-16 1000	10.631						
-8	2	1300	11.460						
-9	2	4-25-16 1500	10.307						
-10	2	4-26-16 1400	10.698						
-11	1	1500	11.691						

Sodium Bisulate Lot# _____ Manufacturer: _____

Methanol Lot # * Fisher 1572606 Manufacturer: * EMD 15K160016

DI Lot #: _____ Manufacturer: _____

Comments:

MMS013-02 (12/07/06)

Data File Name	AB93877.d
Operator	danielf
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	10439272	C5 - C8 area	CF	CF		
rt7/10	15134806	46025039	306834	401509	**23.58**	
rt10/13	20450961					
rt20/25	26789326					
decane	26993447	C9-C12 area				
butylcyclohexane	29356163	83138936	554260	626504	**11.53**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: DJF / 4-27-16

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	AB93887.d
Operator	danielf
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	9874127	C5 - C8 area	CF	CF		
rt7/10	14655845	45751238	305008	401509	**24.03**	
rt10/13	21221265					
rt20/25	27114722					
decane	27674713	C9-C12 area				
butylcyclohexane	29809341	84598776	563992	626504	**9.98**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: DJF / 4-27-16

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

7.5.2

7

ACCUTEST

Methanol Prep Log

Vial #:	Sample ID:	Initial Tare Wt (g)	Total Wt (g)	Sample Wt (g)	Comments:
040615-3:53273	MC45538-2.3	40.530	56.170	15.640	in 15 mL MeOH

Analyst: DJF

Date: 4/27/16

ACCUTEST LABORATORIES

Instrument: GC 21.(AB)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 4/27/16 Analyst Signature: DJF

Standards Data

Lot #	Description	Conc
VMAVPH Soil	GC26185	gab5156
VMAVPH AQ	GC26186	gab5157

A Files

Standards Data

Lot #	Description	Conc
gvi6344	cc/bsp 250µg/mL	5/11/16
gvi6345	surr	↓
gvi6347	Soil surr 50µg/mL	5/12/16
gvi6363	VPH std 50µg/mL	5/19/16

Column: mtx502.2
Method: ABVPH1
GC Seq. File: AB160427.S
Method Files:
AB160427VPH cc5058-50
1-1, 2-2, 3-3, 4-4, 5-5,
AS Seq. File: 6-7, 8-10, 11-11

Date of ICAL: 1-12-16 ICAL Verified: Seq. Verification: DJF

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
AB93877.a	Concal 50	N/A	GC26185	VMAVPH	1	W	1µL gvi6344	N/A	N/A	N/A	
78.a	mb	↓	↓	↓	2	S	5mL of 1mL/50mL	FV DI	↓	↓	
79.a	bsp				3	↓	100µL into 5mL FV DI	N/A			
80.a	bsd				4		↓	↓			
81	known 481	1			5	W	5mL of 100µL/100mL	FV DI			
82	MC45538-2	3	15.64 g		6	S	5mL of 1mL/50mL	FV N/A			
83	MC45453-23	1	15.005 g		7	↓	↓	↓	↓	↓	
84	MC45511-4	2	GC26186		8	W	5mL of 10mL/50mL	FV DI	1:5		
85	MC45513-1	2			9						
86	-2	2	↓		10		↓	↓	↓		
87.a	Concal 50	N/A	GC26185	↓	11	↓	1µL gvi6344	N/A	N/A	N/A	
88	Concal 50	↓	↓	VMAVPH	12	W	5mL gvi6363 into 5mL	↓ FV DI	↓	↓	First check in, not needed

DJF 4/28/16

GC001-05 Date: 12/02/08 Dilution Solvent: pH Paper Hydrion Exp 6/15/18 Lot Number: 216315 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.

5

Data File Name	AB93877a.d
Operator	danielf
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	10439272	C5 - C8 area	CF	CF		
rt7/10	15134806	46025039	306834	401509	**23.58**	
rt10/13	20450961					
rt20/25	26789326					
decane	26993447	C9-C12 area				
butylcyclohexane	29356163	83138936	554260	626504	**11.53**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: DJF / 4-28-16

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	AB93887.d
Operator	danielf
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	9874127	C5 - C8 area	CF	CF		
rt7/10	14655845	45751238	305008	401509	**24.03**	
rt10/13	21221265					
rt20/25	27114722					
decane	27674713	C9-C12 area				
butylcyclohexane	29809341	84598776	563992	626504	**9.98**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: DJF / 4-28-16

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

7.5.3

7

C:\msdchem\1\data\ab160427\AB93878a.d

Data File Name	AB93878a.d	
Operator	danielf	
Date Acquired	#VALUE!	
Method File	ABVPH1.M	
Sample Name	mb,s,vmavph,16	
Enter Sample Multiplier	1	Enter Dilution mult. (E8)
Meoh Volume		
Matrix	water	

Name	Enter Dilution Amount	From dilution (Y)	%recovery
FID			
fluorobenzene	50.75		81.20
2,3,4-trifluorotoluene	48.61		77.77
fluorobenzene #2	49.41		79.06
2,3,4-trifluorotoluene 1	45.90		73.45

surr62.5 recovery

DJF 4/28/16

C:\msdchem\custrpt\SURR 62.5.CRT

4/26/2016 3:04 PM

C:\msdchem\1\data\ab160425a\AB93850.d

Data File Name	AB93850.d	
Operator	danielf	
Date Acquired	#VALUE!	
Method File	ABVPH1.M	
Sample Name	mc45511-4,w,vmavph,00	
Enter Sample Multiplier	1	Enter Dilution mult. (E8)
Meoh Volume		5.00
Matrix	water	From AB93884

Name	Enter Dilution Amount	From dilution (Y)		%recovary
FID				
2,5-dibromotoluene	0.00			0.00
rt5.5-7	68.66		68.66	
rt7/10	420.80		420.80	
rt10/13	367.02		367.02	
rt20/25	2021.79	y	10108.95	
rt25/29	0.00		0.00	
fluorobenzene	49.62			99.24
2,3,4-trifluorotoluene	45.08			90.15

			unadj %rec	adj %rec
C5 - C8 HYDROCARBONS UNCORRECTED		CORRECTED VALUE		
856.48	-60.11	796.37		
C9 - C12 HYDROCARBONS UNCORRECTED				
10108.95	-7069.97	3038.98		

PID

SIGNAL #2	Enter Dilution Amount	corrected	From dilution? (Y)
mtbe #2	0.00	0.00	
benzene #2	0.00	0.00	
toluene #2	60.11	60.11	
2,3,4-trifluorotoluene #2	41.89	41.89	
ethylbenzene #2	532.29	532.29	
m,p-xylene #2	602.26	3011.30	y
o-xylene #2	312.07	1560.35	y
1,3,5-trimethylbenzene #2	0.00	0.00	
1,2,4-trimethylbenzene #2	471.97	471.97	
naphthalene #2	62.41	62.41	
c9-c10 arom as 1,2,4-trmb	1966.03	1966.03	
2,5-dibromotoluene #2	0.00	0.00	0.00%
fluorobenzene #2	48.91		97.83%
2,3,4-trifluorotoluene #2	41.89		83.78%
			%recovery

created 090205jfh for aef
020608 added rt25/29 aef

DJF 4/28/16

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4/28/2016 2:29 PM

Data File Name	AB93842.d	
Operator	dlevell	
Date Acquired	#VALUE!	
Method File	ABLPH1.M	
Sample Name	n-15513-2,w [illegible]	
Enter Sample Multiplier	1	Enter Dilution mult. (ES)
Meoh Volume		5.00
Matrix	water	From ATT [illegible]

Name	Enter Dilution Amount	From dilution (Y)					
FID							
2,5-dibromotoluene	0.00				Recovery		
n-C6	164.64		164.64		0.00		
n-C7	827.90		827.90				
n-C8	548.19		548.19				
n-C9/2,5	1389.90	Y	1389.90				
n-C10/2,3	0.00		0.00				
Benzotrifluoride	52.59				105.07		
3,3,4-trifluorotoluene	44.15				92.30		
			C6 - C8 HYDROCARBONS (UNCORRECTED)			unadj.	adj.
					C6/C8 RESULTS	%recov	%rec
			1577.55	40.11	1515.78		
			C9 - C12 HYDROCARBONS (UNCORRECTED)				
			1443.55	2591.97	243.47		

PID

SPIKE #2	Enter Dilution Amount	corrected	From dilution (Y)
benzene #2	0.00	0.00	
ethylbenzene #2	0.20	0.20	
toluene #2	66.50	66.91	
2,3,4-trimethylpentane #2	44.06	44.34	
n-hexane #2	599.58	603.56	
m,p-xylene #2	2111.27	2050.35	Y
o-xylene #2	991.34	991.34	
1,3,5-trimethylbenzene #2	0.00	0.00	
1,2,4-trimethylbenzene #2	798.73	798.73	
naphthalene #2	117.02	117.02	
c9-c10 arom as 1,2,4-tmb	3372.51	3372.51	
2,5-dibromotoluene #2	0.00	0.00	0.00%
fluorobenzene #2	51.38		102.76%
2,3,4-trifluorotoluene #2	44.98		89.97%
			Recovery

created 08/20/jth for asf
020909 added n25/26 asf

DJF 4/28/16

C:\msdchem\1\data\ab150425a\AB93846.d

Data File Name	AB93846.d	
Operator	dlaniell	
Date Acquired	#VALUE!	
Method File	ABVPH1.M	
Sample Name	nc45513-1,w,vmavph,00	
Enter Sample Multiplier	1	Enter Dilution mult. (Eb) 5.00
Mech Volume		
Matrix	water	From AB0[illegible]

Name	Enter Dilution Amount	From dilution (Y)		%recovery
FID				
2,5-dibromotoluene	0.00			0.00
rt5/7	336.71		336.71	
rt7/10	1418.73		1418.73	
rt10/13	1076.39		1076.39	
rt20/25	2387.83	y	11939.15	
rt25/29	0.00		0.00	
fluorobenzene	43.48			87.0%
2,3,4-trifluorotoluene	44.23			88.5%

				unadj	adj
		C5 - C8 HYDROCARBONS UNCORRECTED	CORRECTED VALUE	%rec	%rec
		2331.43	-1[illegible].45	2643.18	
		C9 - C12 HYDROCARBONS UNCORRECTED			
		11939.15	-8213.43	3725.72	

PID

SIGNAL #2	Enter Dilution Amount	corrected	From dilution? (Y)	
mtbe #2	0.00	0.00		
benzene #2	7.13	7.13		
toluene #2	179.52	179.52		
2,3,4-trifluorotoluene #2	44.15	44.15		
ethylbenzene #2	136.75	136.75		
m,p-xylene #2	595.31	2370.55		
o-xylene #2	798.57	798.57		
1,3,5-trimethylbenzene #2	0.00	0.00		
1,2,4-trimethylbenzene #2	847.15	847.15		
naphthalene #2	127.99	127.99		
c9-c10 arom as 1,2,4-tmb	3551.17	3551.17		
2,5-dibromotoluene #2	0.00	0.00		0.00%
fluorobenzene #2	45.18			90.35%
2,3,4-trifluorotoluene #2	44.15			88.30%
				%recovery

created 990205jfn for aef
020608 added rt25/29 aef

Page 1 of 1

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DJF 4/28/16

4/28/2016 2:26 PM

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: MC45538
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
OP47246-MB	DE13983.D	1	04/29/16	TA	04/27/16	OP47246	GDE781

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

MC45538-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	100	70	ug/l	
	C9-C18 Aliphatics	ND	100	70	ug/l	
	C19-C36 Aliphatics	ND	100	70	ug/l	
	C11-C22 Aromatics	ND	100	70	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	75%	40-140%
321-60-8	2-Fluorobiphenyl	80%	40-140%
3386-33-2	1-Chlorooctadecane	61%	40-140%
580-13-2	2-Bromonaphthalene	84%	40-140%

Method Blank Summary

Job Number: MC45538
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
OP47259-MB	DE14016.D	1	05/04/16	TA	04/28/16	OP47259	GDE784

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

MC45538-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	18000	14000	ug/kg	
	C9-C18 Aliphatics	ND	8900	7200	ug/kg	
	C19-C36 Aliphatics	ND	8900	7200	ug/kg	
	C11-C22 Aromatics	ND	18000	14000	ug/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	85%	40-140%
321-60-8	2-Fluorobiphenyl	84%	40-140%
580-13-2	2-Bromonaphthalene	85%	40-140%
3386-33-2	1-Chlorooctadecane	83%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45538
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
OP47246-BS	DE13981.D	1	04/29/16	TA	04/27/16	OP47246	GDE781
OP47246-BSD	DE13982.D	1	04/29/16	TA	04/27/16	OP47246	GDE781

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

MC45538-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	734	92	785	98	7	40-140/25
	C9-C18 Aliphatics	300	202	67	192	64	5	40-140/25
	C19-C36 Aliphatics	400	330	83	301	75	9	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	82%	85%	40-140%
321-60-8	2-Fluorobiphenyl	84%	96%	40-140%
3386-33-2	1-Chlorooctadecane	75%	65%	40-140%
580-13-2	2-Bromonaphthalene	75%	90%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47246-BS	2-Methylnaphthalene	27.9	ND	0.0%	5.0
OP47246-BS	Naphthalene	25.8	ND	0.0%	5.0
OP47246-BSD	2-Methylnaphthalene	34.5	0.042	0.1%	5.0
OP47246-BSD	Naphthalene	29.8	ND	0.0%	5.0

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45538
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
OP47259-BS	DE14014.D	1	05/04/16	TA	04/28/16	OP47259	GDE784
OP47259-BSD	DE14015.D	1	05/04/16	TA	04/28/16	OP47259	GDE784

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

MC45538-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	67100	74100	110	75300	112	2	40-140/25
	C9-C18 Aliphatics	25200	19300	77	18600	74	4	40-140/25
	C19-C36 Aliphatics	33600	33400	100	29100	86	14	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	92%	104%	40-140%
321-60-8	2-Fluorobiphenyl	86%	103%	40-140%
580-13-2	2-Bromonaphthalene	79%	96%	40-140%
3386-33-2	1-Chlorooctadecane	94%	68%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47259-BS	2-Methylnaphthalene	2920	10.5	0.4%	5.0
OP47259-BS	Naphthalene	2780	10.6	0.4%	5.0
OP47259-BSD	2-Methylnaphthalene	3570	9.1	0.3%	5.0
OP47259-BSD	Naphthalene	3550	9.0	0.3%	5.0

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45538
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
OP47246-MS	DE13987.D	1	04/29/16	TA	04/27/16	OP47246	GDE781
OP47246-MSD	DE13988.D	1	04/29/16	TA	04/27/16	OP47246	GDE781
MC45147-31	DE13986.D	1	04/29/16	TA	04/27/16	OP47246	GDE781

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

MC45538-1

CAS No.	Compound	MC45147-31 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	ND		800	724	91	800	757	95	4	40-140/25
	C9-C18 Aliphatics	ND		300	237	79	300	250	83	5	40-140/25
	C19-C36 Aliphatics	ND		400	362	91	400	389	97	7	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45147-31	Limits
84-15-1	o-Terphenyl	77%	81%	75%	40-140%
321-60-8	2-Fluorobiphenyl	79%	81%	77%	40-140%
3386-33-2	1-Chlorooctadecane	66%	75%	65%	40-140%
580-13-2	2-Bromonaphthalene	72%	75%	80%	40-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45538
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
OP47259-MS	DE14019.D	1	05/04/16	TA	04/28/16	OP47259	GDE784
OP47259-MSD	DE14020.D	1	05/04/16	TA	04/28/16	OP47259	GDE784
MC45503-2	DE14018.D	1	05/04/16	TA	04/28/16	OP47259	GDE784

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

MC45538-2

CAS No.	Compound	MC45503-2 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		92200	91500	99	90900	90300	99	1	40-140/25
	C9-C18 Aliphatics	ND		34600	29300	85	34100	27300	80	7	40-140/25
	C19-C36 Aliphatics	ND		46100	49700	108	45400	50000	110	1	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45503-2	Limits
84-15-1	o-Terphenyl	85%	86%	97%	40-140%
321-60-8	2-Fluorobiphenyl	80%	84%	94%	40-140%
580-13-2	2-Bromonaphthalene	73%	77%	97%	40-140%
3386-33-2	1-Chlorooctadecane	87%	84%	82%	40-140%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Method: MADEP EPH REV 1.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [b]	S4 [a]
MC45538-1	DE13984.D	74	75	68	78
OP47246-BS	DE13981.D	82	84	75	75
OP47246-BSD	DE13982.D	85	96	65	90
OP47246-MB	DE13983.D	75	80	61	84
OP47246-MS	DE13987.D	77	79	66	72
OP47246-MSD	DE13988.D	81	81	75	75

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 1-Chlorooctadecane	40-140%
S4 = 2-Bromonaphthalene	40-140%

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

Semivolatile Surrogate Recovery Summary

Job Number: MC45538
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]
MC45538-2	DE14047.D	83	88	90	64
OP47259-BS	DE14014.D	92	86	79	94
OP47259-BSD	DE14015.D	104	103	96	68
OP47259-MB	DE14016.D	85	84	85	83
OP47259-MS	DE14019.D	85	80	73	87
OP47259-MSD	DE14020.D	86	84	77	84

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: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE781-CC735	**Injection Date:**	04/29/16
Lab File ID:	DE13980.D	**Injection Time:**	12:37
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	9.99	6.71	7.45	11.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
OP47246-BS	DE13981.D	04/29/16	14:21	9.99	6.72	7.46	11.23
OP47246-BSD	DE13982.D	04/29/16	14:48	9.98	6.71	7.45	11.23
OP47246-MB	DE13983.D	04/29/16	15:16	9.98	6.71	7.46	11.23
MC45538-1	DE13984.D	04/29/16	15:44	9.98	6.71	7.46	11.23
ZZZZZZ	DE13985.D	04/29/16	16:12	9.98	6.71	7.46	11.23
MC45147-31	DE13986.D	04/29/16	16:40	9.98	6.71	7.45	11.23
OP47246-MS	DE13987.D	04/29/16	17:08	9.98	6.71	7.45	11.23
OP47246-MSD	DE13988.D	04/29/16	17:36	9.98	6.71	7.45	11.23
GDE781-ECC735	DE13989.D	04/29/16	18:04	9.98	6.71	7.45	11.23

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: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE784-CC735	**Injection Date:**	05/04/16
Lab File ID:	DE14013.D	**Injection Time:**	09:17
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	9.96	6.69	7.42	11.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
OP47259-BS	DE14014.D	05/04/16	09:46	9.96	6.70	7.43	11.23
OP47259-BSD	DE14015.D	05/04/16	10:14	9.96	6.69	7.43	11.23
OP47259-MB	DE14016.D	05/04/16	10:42	9.97	6.70	7.43	11.23
ZZZZZZ	DE14017.D	05/04/16	11:10	9.97	6.70	7.43	11.23
MC45503-2	DE14018.D	05/04/16	11:38	9.97	6.70	7.43	11.23
OP47259-MS	DE14019.D	05/04/16	12:05	9.97	6.70	7.43	11.23
OP47259-MSD	DE14020.D	05/04/16	12:33	9.96	6.70	7.43	11.23
GDE784-ECC735	DE14021.D	05/04/16	13:01	9.97	6.70	7.43	11.23

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: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE787-CC735	**Injection Date:**	05/09/16
Lab File ID:	DE14046.D	**Injection Time:**	12:34
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	9.97	6.70	7.43	11.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
MC45538-2	DE14047.D	05/09/16	13:02	9.97	6.70	7.43	11.23
ZZZZZZ	DE14048.D	05/09/16	13:31	9.97	6.70	7.43	11.23
ZZZZZZ	DE14049.D	05/09/16	13:59	9.97	6.70	7.43	11.23
ZZZZZZ	DE14050.D	05/09/16	14:28	9.97	6.69	7.43	11.23
ZZZZZZ	DE14051.D	05/09/16	14:55	9.97	6.69	7.43	11.23
ZZZZZZ	DE14052.D	05/09/16	15:23	9.97	6.69	7.43	11.23
GDE787-ECC735	DE14053.D	05/09/16	15:51	9.97	6.69	7.43	11.23

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: MC45538
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: MC45538
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: MC45538
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: MC45538
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: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE781-CC735
Lab FileID: DE13980.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13980.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 29 Apr 2016  12:37 pm
Operator  : thomasa
Sample    : cc735-50, gde781
Misc      : op47209,gde781,11,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 14:09:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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	89.216 E3	13.5	83	0.00
3		2-methylnaphthalene	102.482	90.248 E3	11.9	85	0.00
4	s	2-fluorobiphenyl	92.230	81.023 E3	12.2	85	0.00
5		acenaphthylene	100.602	89.430 E3	11.1	86	0.00
6	s	2-bromonaphthalene	62.755	53.919 E3	14.1	83	0.00
7		acenaphthene	103.376	94.249 E3	8.8	88	0.00
8		fluorene	101.567	89.728 E3	11.7	86	0.00
9		phenanthrene	101.763	89.866 E3	11.7	86	0.00
10		anthracene	97.008	87.295 E3	10.0	88	0.00
11	s	o-terphenyl	102.427	92.405 E3	9.8	88	0.00
12		fluoranthene	99.941	91.175 E3	8.8	90	0.00
13		pyrene	101.462	93.599 E3	7.7	91	0.00
14		benzo(a)anthracene	96.675	89.838 E3	7.1	92	0.00
15		chrysene	97.341	94.178 E3	3.2	95	0.00
16		benzo(B)fluoranthene	99.002	102.282 E3	-3.3	103	0.00
17		benzo(k)fluoranthene	94.503	86.472 E3	8.5	88	0.00
18		benzo(a)pyrene	92.435	88.053 E3	4.7	93	0.00
19		indeno(1,2,3-cd)pyrene	94.658	72.250 E3	23.7	74#	0.00
20		dibenzo(ah)anthracene	91.399	79.488 E3	13.0	85	0.00
21		benzo(ghi)perylene	92.123	91.202 E3	1.0	97	0.00
Signal #2							
25	h	c-9	73.872	74.348 E3	-0.6	0#	0.00
26	h	c-10	73.872	75.003 E3	-1.5	0#	0.00
27		naphthalene #2	79.872	80.295 E3	-0.5	106	0.00
28		c-12	73.872	74.986 E3	-1.5	0#	0.00
29		2-methylnaphthalene #2	80.566	80.198 E3	0.5	105	0.00
30		c-14	73.872	73.782 E3	0.1	0#	0.00
31		c-16	73.872	73.152 E3	1.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GDE781-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE13980.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	73.112	E3	1.0	0#	0.00
33		c-19	66.806	72.718	E3	-8.8	0#	0.00
34		c-20	66.806	71.028	E3	-6.3	0#	0.00
35	s	1-chlorooctadecane	56.575	57.506	E3	-1.6	107	0.00
36		c-22	66.806	70.793	E3	-6.0	0#	0.00
37		c-24	66.806	66.056	E3	1.1	0#	0.00
38		c-26	66.806	70.058	E3	-4.9	0#	0.00
39		c-28	66.806	67.673	E3	-1.3	0#	0.00
40	h	c-30	66.806	67.483	E3	-1.0	0#	0.00
41	h	c-36	66.806	55.472	E3	17.0	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

EPH160429W.M Fri Apr 29 16:46:39 2016

8.6.3

8

Continuing Calibration Summary

Job Number: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE781-ECC735
Lab FileID: DE13989.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 29 Apr 2016   6:04 pm
Operator  : thomasa
Sample    : ecc735-50, gde781
Misc      : op47209,gde781,11,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:09:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title  : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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	91.290 E3	11.5	85	0.00
3		2-methylnaphthalene	102.482	90.626 E3	11.6	86	0.00
4	s	2-fluorobiphenyl	92.230	83.004 E3	10.0	87	0.00
5		acenaphthylene	100.602	91.740 E3	8.8	88	0.00
6	s	2-bromonaphthalene	62.755	55.363 E3	11.8	85	0.00
7		acenaphthene	103.376	95.077 E3	8.0	89	0.00
8		fluorene	101.567	92.422 E3	9.0	88	0.00
9		phenanthrene	101.763	92.124 E3	9.5	88	0.00
10		anthracene	97.008	88.303 E3	9.0	89	0.00
11	s	o-terphenyl	102.427	94.792 E3	7.5	90	0.00
12		fluoranthene	99.941	92.435 E3	7.5	91	0.00
13		pyrene	101.462	94.848 E3	6.5	93	0.00
14		benzo(a)anthracene	96.675	91.329 E3	5.5	94	0.00
15		chrysene	97.341	95.637 E3	1.8	97	0.00
16		benzo(B)fluoranthene	99.002	94.595 E3	4.5	95	0.00
17		benzo(k)fluoranthene	94.503	92.497 E3	2.1	94	0.00
18		benzo(a)pyrene	92.435	89.549 E3	3.1	95	0.00
19		indeno(1,2,3-cd)pyrene	94.658	75.044 E3	20.7	77	-0.01
20		dibenzo(ah)anthracene	91.399	84.282 E3	7.8	90	0.00
21		benzo(ghi)perylene	92.123	94.898 E3	-3.0	101	0.00

Signal #2

25	h	c-9	73.872	76.294 E3	-3.3	0#	0.00
26	h	c-10	73.872	77.254 E3	-4.6	0#	0.00
27		naphthalene #2	79.872	82.050 E3	-2.7	108	0.00
28		c-12	73.872	76.330 E3	-3.3	0#	0.00
29		2-methylnaphthalene #2	80.566	81.816 E3	-1.6	108	0.00
30		c-14	73.872	75.384 E3	-2.0	0#	0.00
31		c-16	73.872	74.100 E3	-0.3	0#	0.00

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GDE781-ECC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE13989.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	73.572	E3	0.4	0#	0.00
33		c-19	66.806	72.933	E3	-9.2	0#	0.00
34		c-20	66.806	71.474	E3	-7.0	0#	0.00
35	s	1-chlorooctadecane	56.575	57.720	E3	-2.0	108	0.00
36		c-22	66.806	70.780	E3	-5.9	0#	0.00
37		c-24	66.806	65.995	E3	1.2	0#	0.00
38		c-26	66.806	69.995	E3	-4.8	0#	0.00
39		c-28	66.806	67.550	E3	-1.1	0#	0.00
40	h	c-30	66.806	67.295	E3	-0.7	0#	0.00
41	h	c-36	66.806	56.207	E3	15.9	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

EPH160429W.M Mon May 02 09:53:09 2016

8.6.4

8

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GDE784-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14013.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14013.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  4 May 2016   9:17 am
Operator  : thomasa
Sample    : cc735-50, gde784
Misc      : op47292,gde784,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 09:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	119.312 E3	-15.7	112	0.00
3		2-methylnaphthalene	102.482	115.281 E3	-12.5	109	0.00
4	s	2-fluorobiphenyl	92.230	104.138 E3	-12.9	109	0.00
5		acenaphthylene	100.602	112.772 E3	-12.1	109	0.00
6	s	2-bromonaphthalene	62.755	69.013 E3	-10.0	106	0.00
7		acenaphthene	103.376	116.692 E3	-12.9	109	0.00
8		fluorene	101.567	112.002 E3	-10.3	107	0.00
9		phenanthrene	101.763	109.357 E3	-7.5	105	0.00
10		anthracene	97.008	105.190 E3	-8.4	106	0.00
11	s	o-terphenyl	102.427	109.905 E3	-7.3	105	0.00
12		fluoranthene	99.941	105.869 E3	-5.9	104	0.00
13		pyrene	101.462	108.465 E3	-6.9	106	0.00
14		benzo(a)anthracene	96.675	101.476 E3	-5.0	104	0.00
15		chrysene	97.341	101.842 E3	-4.6	103	0.00
16		benzo(B)fluoranthene	99.002	107.319 E3	-8.4	108	0.00
17		benzo(k)fluoranthene	94.503	97.506 E3	-3.2	99	0.00
18		benzo(a)pyrene	92.435	97.692 E3	-5.7	103	0.00
19		indeno(1,2,3-cd)pyrene	94.658	101.401 E3	-7.1	104	0.00
20		dibenzo(ah)anthracene	91.399	94.968 E3	-3.9	101	0.00
21		benzo(ghi)perylene	92.123	96.877 E3	-5.2	103	0.00
Signal #2							
25	h	c-9	73.872	74.685 E3	-1.1	0#	0.00
26	h	c-10	73.872	75.724 E3	-2.5	0#	0.00
27		naphthalene #2	79.872	80.807 E3	-1.2	106	0.00
28		c-12	73.872	75.029 E3	-1.6	0#	0.00
29		2-methylnaphthalene #2	80.566	80.355 E3	0.3	106	0.00
30		c-14	73.872	74.464 E3	-0.8	0#	0.00
31		c-16	73.872	73.839 E3	0.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GDE784-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14013.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	73.790	E3	0.1	0#	0.00
33		c-19	66.806	73.523	E3	-10.1	0#	0.00
34		c-20	66.806	72.153	E3	-8.0	0#	0.00
35	s	1-chlorooctadecane	56.575	58.320	E3	-3.1	109	0.00
36		c-22	66.806	71.606	E3	-7.2	0#	0.00
37		c-24	66.806	67.205	E3	-0.6	0#	0.00
38		c-26	66.806	71.539	E3	-7.1	0#	0.00
39		c-28	66.806	69.118	E3	-3.5	0#	0.00
40	h	c-30	66.806	69.334	E3	-3.8	0#	0.00
41	h	c-36	66.806	57.875	E3	13.4	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.35#
22	s	bht	0.000	0.000		0.0	0#	-15.67#
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

EPH160504W.M Wed May 04 13:27:05 2016

8.6.5

8

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GDE784-ECC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14021.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  4 May 2016   1:01 pm
Operator  : thomasa
Sample    : ecc735-50, gde784
Misc      : op47292,gde784,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:26:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	104.378 E3	-1.2	98	0.00
3		2-methylnaphthalene	102.482	101.822 E3	0.6	96	0.00
4	s	2-fluorobiphenyl	92.230	92.225 E3	0.0	97	0.00
5		acenaphthylene	100.602	99.758 E3	0.8	96	0.00
6	s	2-bromonaphthalene	62.755	61.461 E3	2.1	95	0.00
7		acenaphthene	103.376	104.324 E3	-0.9	97	0.00
8		fluorene	101.567	100.561 E3	1.0	96	0.00
9		phenanthrene	101.763	99.393 E3	2.3	95	0.00
10		anthracene	97.008	96.206 E3	0.8	97	0.00
11	s	o-terphenyl	102.427	99.832 E3	2.5	95	0.00
12		fluoranthene	99.941	97.027 E3	2.9	95	0.00
13		pyrene	101.462	99.456 E3	2.0	97	0.00
14		benzo(a)anthracene	96.675	94.020 E3	2.7	96	0.00
15		chrysene	97.341	95.377 E3	2.0	96	0.00
16		benzo(B)fluoranthene	99.002	98.595 E3	0.4	99	0.00
17		benzo(k)fluoranthene	94.503	94.289 E3	0.2	96	0.00
18		benzo(a)pyrene	92.435	92.063 E3	0.4	97	0.00
19		indeno(1,2,3-cd)pyrene	94.658	95.420 E3	-0.8	98	0.00
20		dibenzo(ah)anthracene	91.399	91.135 E3	0.3	97	0.00
21		benzo(ghi)perylene	92.123	92.078 E3	0.0	98	0.00

Signal #2

25	h	c-9	73.872	79.114 E3	-7.1	0#	0.00
26	h	c-10	73.872	80.037 E3	-8.3	0#	0.00
27		naphthalene #2	79.872	85.147 E3	-6.6	112	0.00
28		c-12	73.872	78.986 E3	-6.9	0#	0.00
29		2-methylnaphthalene #2	80.566	84.670 E3	-5.1	111	0.00
30		c-14	73.872	78.153 E3	-5.8	0#	0.00
31		c-16	73.872	77.147 E3	-4.4	0#	0.00

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GDE784-ECC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14021.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	76.813	E3	-4.0	0#	0.00
33		c-19	66.806	76.304	E3	-14.2	0#	0.00
34		c-20	66.806	74.824	E3	-12.0	0#	0.00
35	s	1-chlorooctadecane	56.575	60.504	E3	-6.9	113	0.00
36		c-22	66.806	74.396	E3	-11.4	0#	0.00
37		c-24	66.806	69.272	E3	-3.7	0#	0.00
38		c-26	66.806	73.498	E3	-10.0	0#	0.00
39		c-28	66.806	70.831	E3	-6.0	0#	0.00
40	h	c-30	66.806	70.561	E3	-5.6	0#	0.00
41	h	c-36	66.806	58.696	E3	12.1	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#	-15.67#
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

EPH160504W.M Wed May 04 13:26:55 2016

8.6.6

8

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GDE787-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14046.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160509EPH\
Data File : de14046.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  9 May 2016  12:34 pm
Operator  : thomasa
Sample    : cc735-50,gde787
Misc      : op47259,gde787,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 09 12:58:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 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	112.853 E3	-9.4	106	0.00
3		2-methylnaphthalene	102.482	111.635 E3	-8.9	106	0.00
4	s	2-fluorobiphenyl	92.230	99.879 E3	-8.3	105	0.00
5		acenaphthylene	100.602	108.147 E3	-7.5	104	0.00
6	s	2-bromonaphthalene	62.755	66.299 E3	-5.6	102	0.00
7		acenaphthene	103.376	113.873 E3	-10.2	106	0.00
8		fluorene	101.567	109.605 E3	-7.9	105	0.00
9		phenanthrene	101.763	107.836 E3	-6.0	103	0.00
10		anthracene	97.008	103.944 E3	-7.1	105	0.00
11	s	o-terphenyl	102.427	108.666 E3	-6.1	103	0.00
12		fluoranthene	99.941	105.275 E3	-5.3	104	0.00
13		pyrene	101.462	107.512 E3	-6.0	105	0.00
14		benzo(a)anthracene	96.675	100.551 E3	-4.0	103	0.00
15		chrysene	97.341	101.355 E3	-4.1	102	0.00
16		benzo(B)fluoranthene	99.002	105.170 E3	-6.2	106	0.00
17		benzo(k)fluoranthene	94.503	98.368 E3	-4.1	100	0.00
18		benzo(a)pyrene	92.435	96.612 E3	-4.5	102	0.00
19		indeno(1,2,3-cd)pyrene	94.658	100.381 E3	-6.0	103	0.00
20		dibenzo(ah)anthracene	91.399	94.223 E3	-3.1	101	0.00
21		benzo(ghi)perylene	92.123	96.214 E3	-4.4	102	0.00
Signal #2							
25	h	c-9	73.872	77.920 E3	-5.5	0#	0.00
26	h	c-10	73.872	79.570 E3	-7.7	0#	0.00
27		naphthalene #2	79.872	84.951 E3	-6.4	112	0.00
28		c-12	73.872	79.372 E3	-7.4	0#	0.00
29		2-methylnaphthalene #2	80.566	84.950 E3	-5.4	112	0.00
30		c-14	73.872	78.746 E3	-6.6	0#	0.00
31		c-16	73.872	77.992 E3	-5.6	0#	0.00

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GDE787-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14046.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	78.181	E3	-5.8	0#	0.00
33		c-19	66.806	77.234	E3	-15.6	0#	0.00
34		c-20	66.806	75.766	E3	-13.4	0#	0.00
35	s	1-chlorooctadecane	56.575	60.731	E3	-7.3	113	0.00
36		c-22	66.806	75.333	E3	-12.8	0#	0.00
37		c-24	66.806	70.053	E3	-4.9	0#	0.00
38		c-26	66.806	74.278	E3	-11.2	0#	0.00
39		c-28	66.806	71.470	E3	-7.0	0#	0.00
40	h	c-30	66.806	71.082	E3	-6.4	0#	0.00
41	h	c-36	66.806	58.609	E3	12.3	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#	-15.67#
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

EPH160509W.M Mon May 09 13:10:12 2016

8.6.7

8

Continuing Calibration Summary

Job Number: MC45538 **Sample:** GDE787-ECC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14053.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160509EPH\
Data File : de14053.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  9 May 2016   3:51 pm
Operator  : thomasa
Sample    : ecc735-50,gde787
Misc      : op47259,gde787,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 10 08:50:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 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	119.809 E3	-16.2	112	0.00
3		2-methylnaphthalene	102.482	116.072 E3	-13.3	110	0.00
4	s	2-fluorobiphenyl	92.230	105.765 E3	-14.7	111	0.00
5		acenaphthylene	100.602	114.079 E3	-13.4	110	0.00
6	s	2-bromonaphthalene	62.755	69.708 E3	-11.1	107	0.00
7		acenaphthene	103.376	119.785 E3	-15.9	112	0.00
8		fluorene	101.567	115.083 E3	-13.3	110	0.00
9		phenanthrene	101.763	112.683 E3	-10.7	108	0.00
10		anthracene	97.008	109.283 E3	-12.7	110	0.00
11	s	o-terphenyl	102.427	113.475 E3	-10.8	108	0.00
12		fluoranthene	99.941	109.791 E3	-9.9	108	0.00
13		pyrene	101.462	112.099 E3	-10.5	109	0.00
14		benzo(a)anthracene	96.675	104.361 E3	-8.0	107	0.00
15		chrysene	97.341	105.832 E3	-8.7	107	0.00
16		benzo(B)fluoranthene	99.002	107.320 E3	-8.4	108	0.00
17		benzo(k)fluoranthene	94.503	104.345 E3	-10.4	106	0.00
18		benzo(a)pyrene	92.435	100.388 E3	-8.6	106	0.00
19		indeno(1,2,3-cd)pyrene	94.658	103.518 E3	-9.4	107	0.00
20		dibenzo(ah)anthracene	91.399	97.828 E3	-7.0	104	0.00
21		benzo(ghi)perylene	92.123	99.377 E3	-7.9	106	0.00
Signal #2							
25	h	c-9	73.872	76.779 E3	-3.9	0#	0.00
26	h	c-10	73.872	78.522 E3	-6.3	0#	0.00
27		naphthalene #2	79.872	83.810 E3	-4.9	110	0.00
28		c-12	73.872	78.439 E3	-6.2	0#	0.00
29		2-methylnaphthalene #2	80.566	83.992 E3	-4.3	110	0.00
30		c-14	73.872	77.914 E3	-5.5	0#	0.00
31		c-16	73.872	77.104 E3	-4.4	0#	0.00

Continuing Calibration Summary

Job Number: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE787-ECC735
Lab FileID: DE14053.D

32		c-18	73.872	77.226	E3	-4.5	0#	0.00
33		c-19	66.806	76.452	E3	-14.4	0#	0.00
34		c-20	66.806	75.124	E3	-12.5	0#	0.00
35	s	1-chlorooctadecane	56.575	60.421	E3	-6.8	113	0.00
36		c-22	66.806	74.714	E3	-11.8	0#	0.00
37		c-24	66.806	69.852	E3	-4.6	0#	0.00
38		c-26	66.806	74.391	E3	-11.4	0#	0.00
39		c-28	66.806	71.888	E3	-7.6	0#	0.00
40	h	c-30	66.806	71.767	E3	-7.4	0#	0.00
41	h	c-36	66.806	59.965	E3	10.2	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#	-15.67#
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

EPH160509W.M Tue May 10 09:19:24 2016

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13984.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 3:44 pm
Operator : thomasa
Sample : mc45538-1,op47246
Misc : op47246,gde781,930,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 16:46:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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	6.715	1383795	15.004 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 75.02%#	
6) s 2-bromonaphthalene	7.455	975311	15.542 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 77.71%#	
11) s o-terphenyl	9.982	1507881	14.722 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 73.61%#	
35) s 1-chlorooctadecane	11.227	769393	13.600 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 68.00%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	2285952	23.277 µg/mlm
25) h c-9	2.648	984071	13.321 µg/mlm
41) h c-36	17.008	919409	13.762 µg/mlm

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

9.1.1

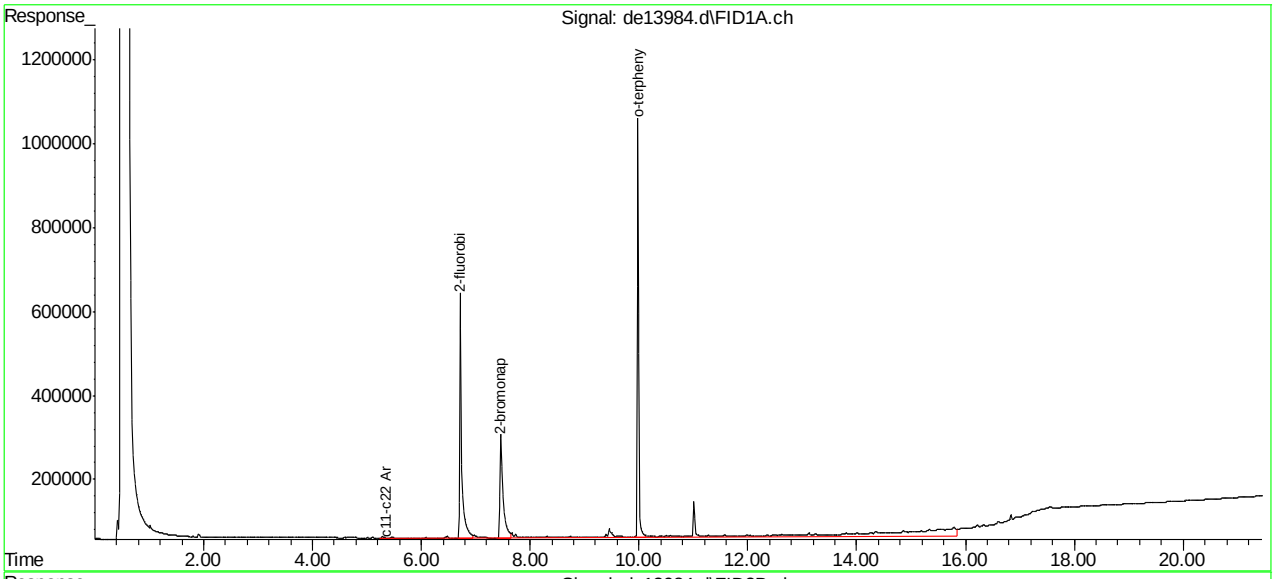
9

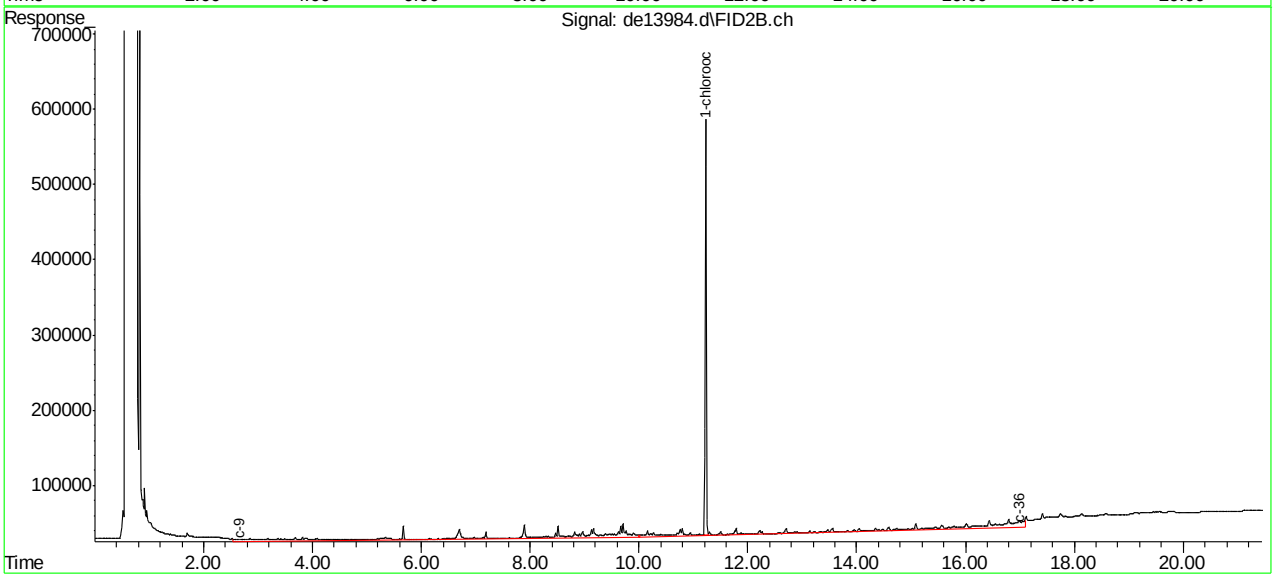
Quantitation Report (QT Reviewed)

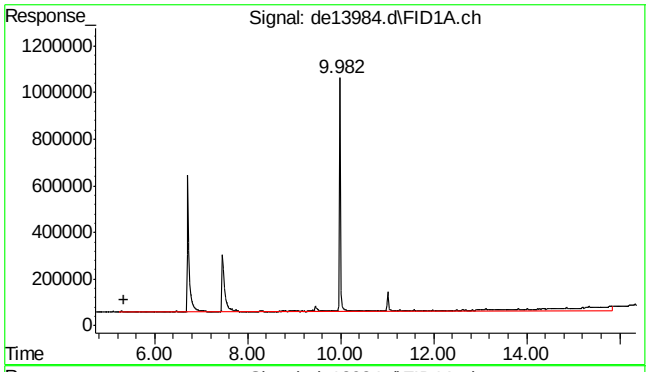
Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13984.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 3:44 pm
Operator : thomasa
Sample : mc45538-1,op47246
Misc : op47246,gde781,930,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 16:46:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 2016
Response via : Initial Calibration
Integrator: RTE

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

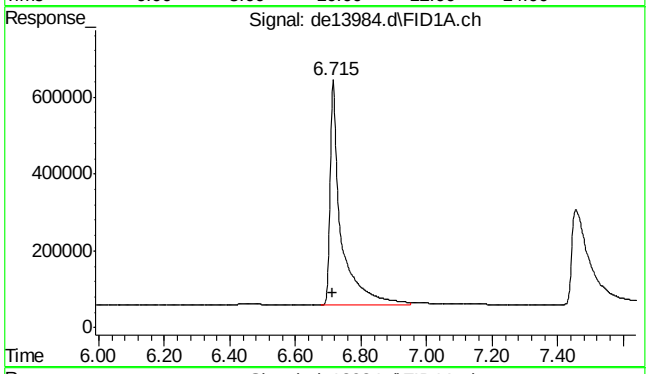






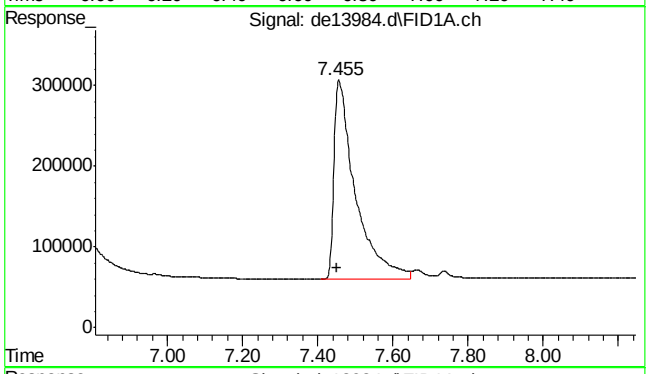
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2285952
Conc: 23.28 µg/ml m



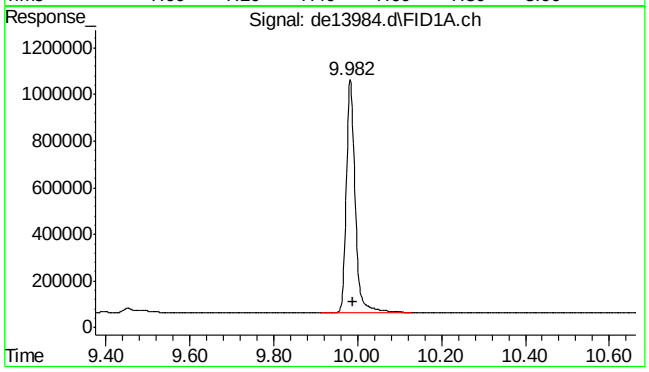
#4 2-fluorobiphenyl

R.T.: 6.715 min
Delta R.T.: 0.002 min
Response: 1383795
Conc: 15.00 µg/ml



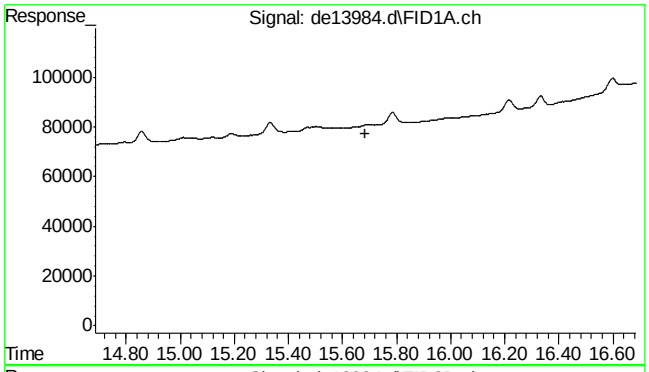
#6 2-bromonaphthalene

R.T.: 7.455 min
Delta R.T.: 0.005 min
Response: 975311
Conc: 15.54 µg/ml



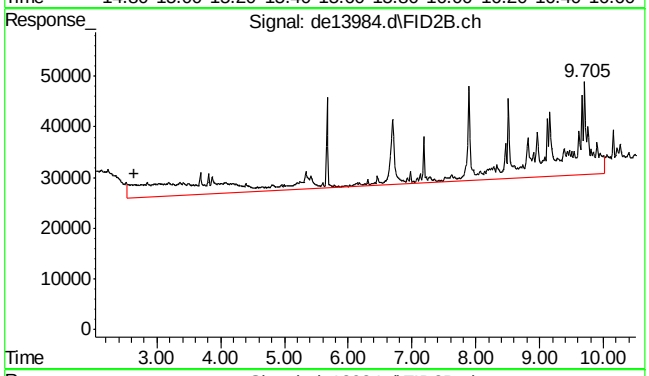
#11 o-terphenyl

R.T.: 9.982 min
Delta R.T.: -0.007 min
Response: 1507881
Conc: 14.72 µg/ml



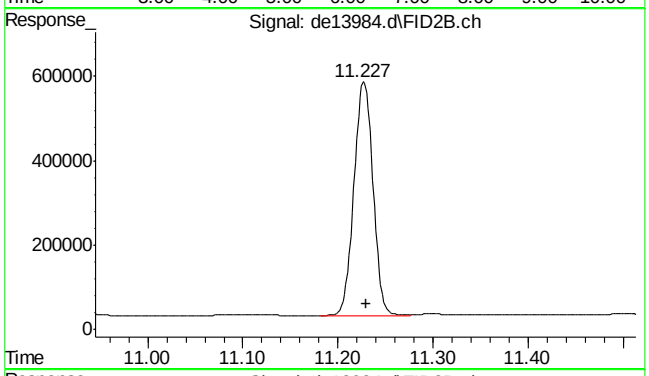
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.685 min
Response: 0
Conc: N.D.



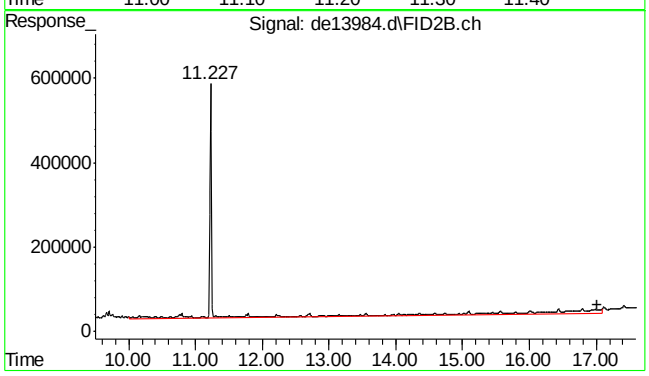
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 984071
Conc: 13.32 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.003 min
Response: 769393
Conc: 13.60 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 919409
Conc: 13.76 µg/ml m

9.1.1

9

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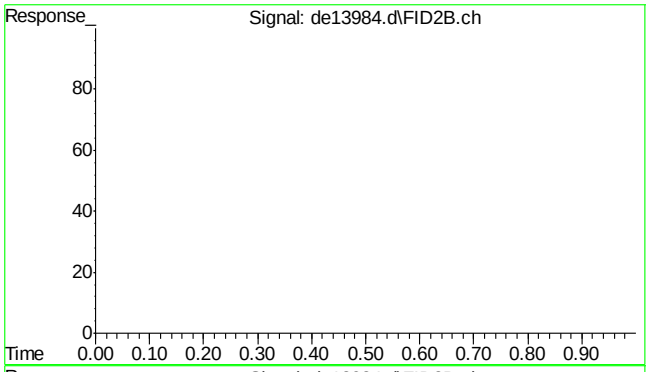
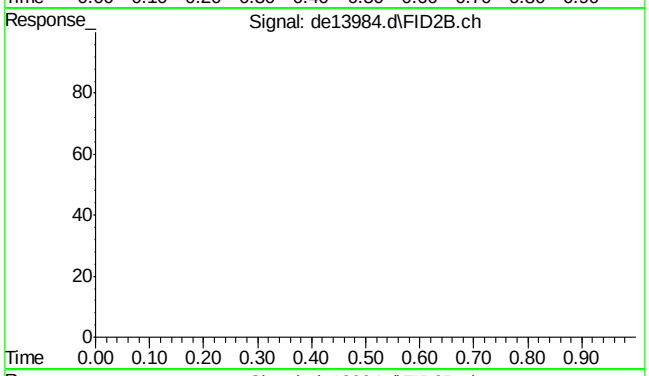


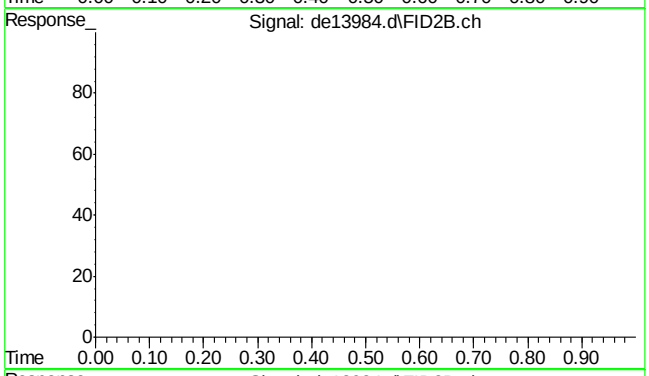
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



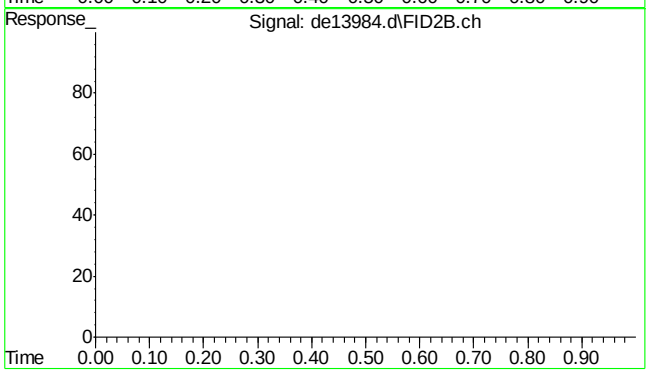
#43 bht

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\DE160509EPH\
Data File : de14047.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 9 May 2016 1:02 pm
Operator : thomasa
Sample : mc45538-2,op47259
Misc : op47259,gde787,11.98,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 10 08:53:12 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 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	6.697	1626466	17.635 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 88.17%#	
6) s 2-bromonaphthalene	7.432	1127832	17.972 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 89.86%#	
11) s o-terphenyl	9.967	1695909	16.557 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 82.78%#	
35) s 1-chlorooctadecane	11.227	725824	12.829 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 64.15%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3107895	31.647 µg/mlm
25) h c-9	2.648	955399	12.933 µg/mlm
41) h c-36	17.008	797783	11.942 µg/mlm

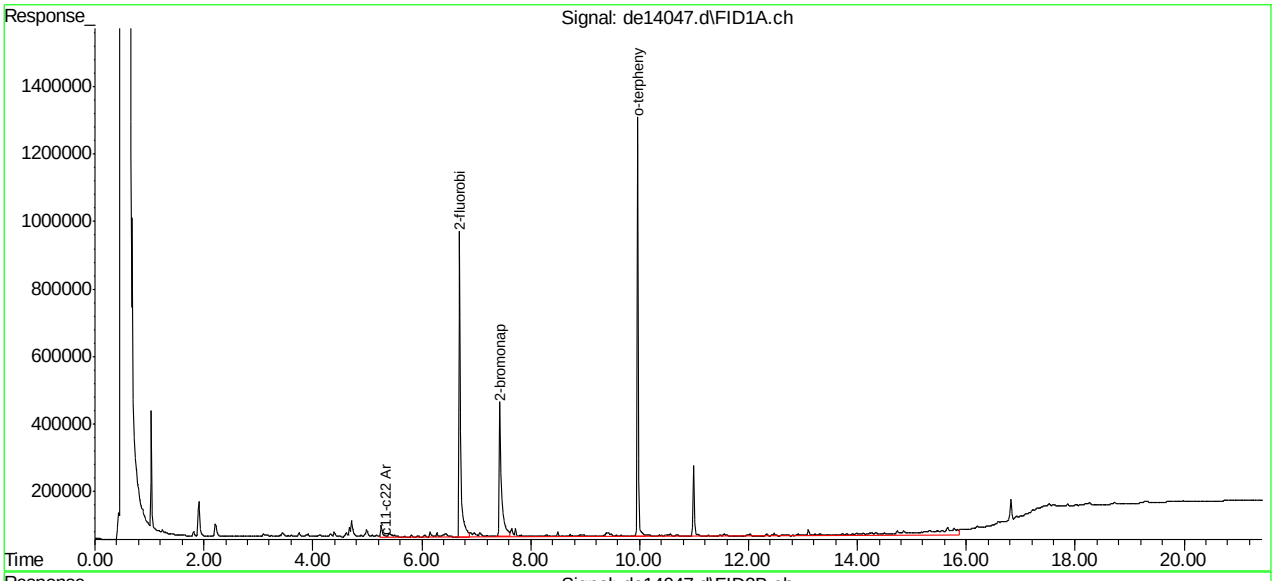
(f)=RT Delta > 1/2 Window (m)=manual int.

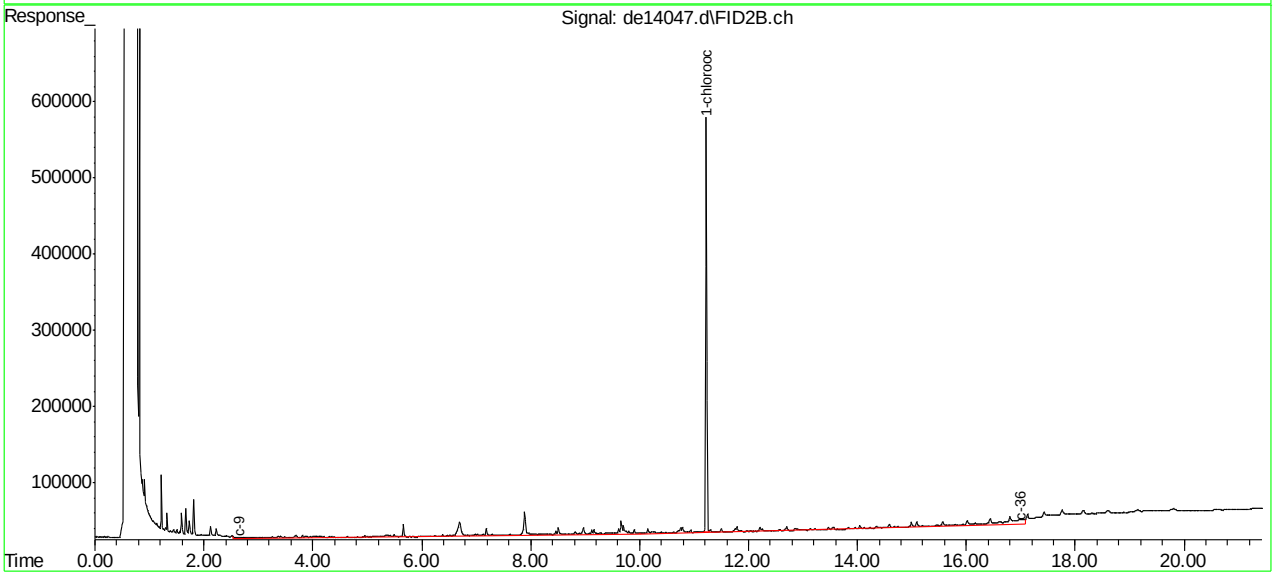
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160509EPH\
Data File : de14047.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 9 May 2016 1:02 pm
Operator : thomasa
Sample : mc45538-2,op47259
Misc : op47259,gde787,11.98,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

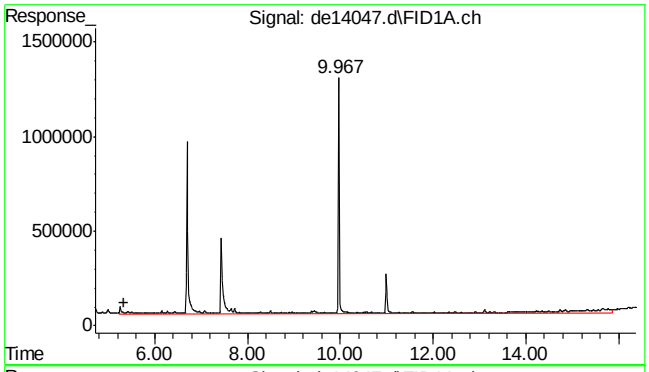
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 10 08:53:12 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 2016
Response via : Initial Calibration
Integrator: RTE

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



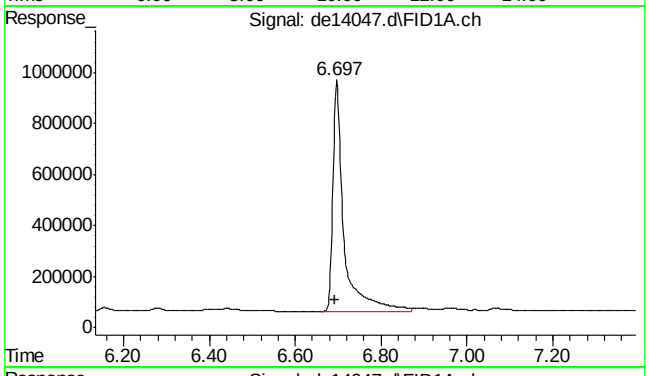


EPH160509W.M Tue May 10 09:19:37 2016 Page: 2



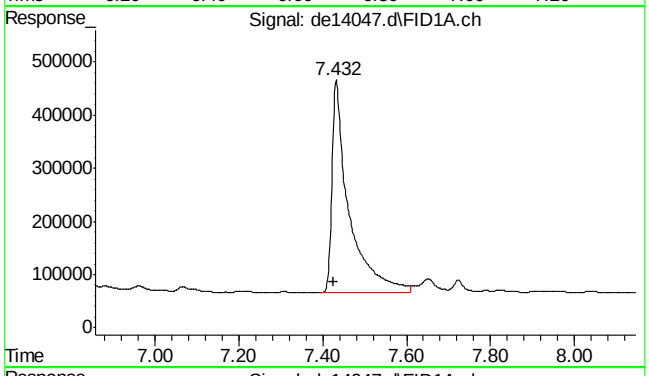
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3107895
Conc: 31.65 µg/ml m



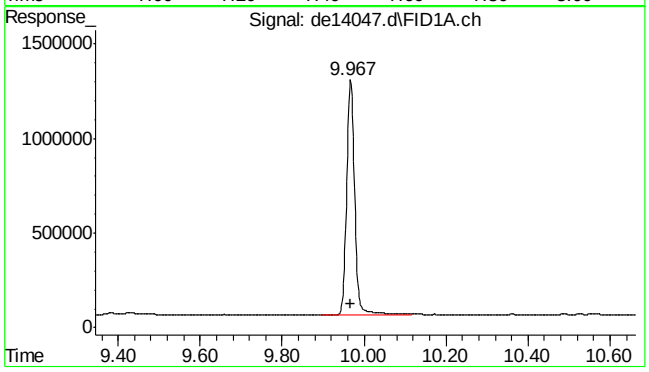
#4 2-fluorobiphenyl

R.T.: 6.697 min
Delta R.T.: 0.003 min
Response: 1626466
Conc: 17.63 µg/ml



#6 2-bromonaphthalene

R.T.: 7.432 min
Delta R.T.: 0.005 min
Response: 1127832
Conc: 17.97 µg/ml



#11 o-terphenyl

R.T.: 9.967 min
Delta R.T.: -0.002 min
Response: 1695909
Conc: 16.56 µg/ml

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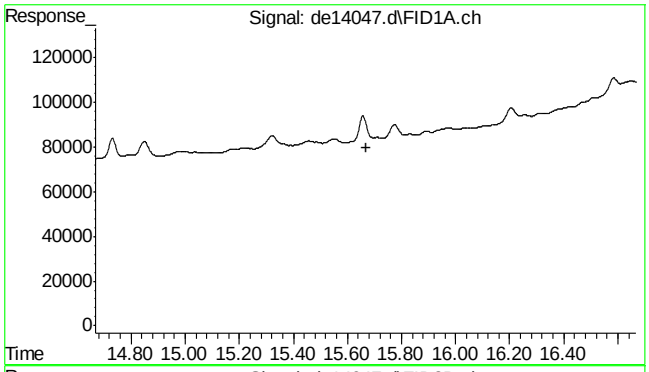
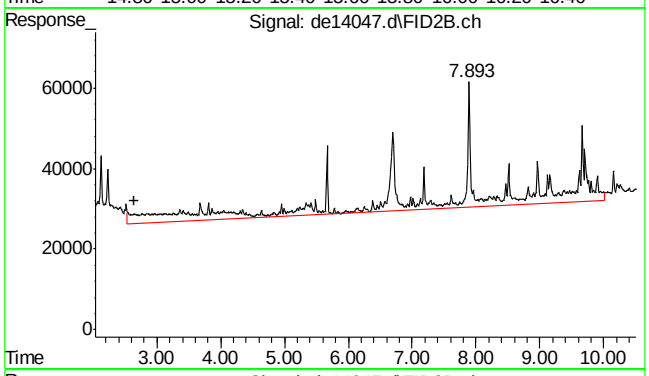


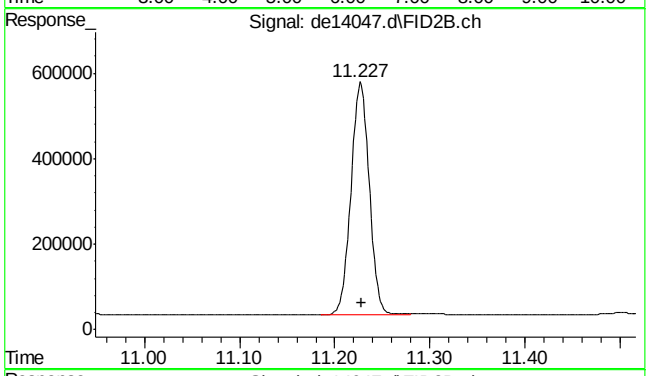
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



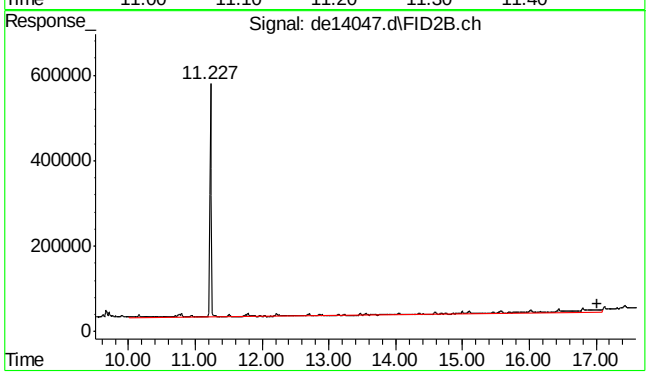
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 955399
Conc: 12.93 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 725824
Conc: 12.83 µg/ml



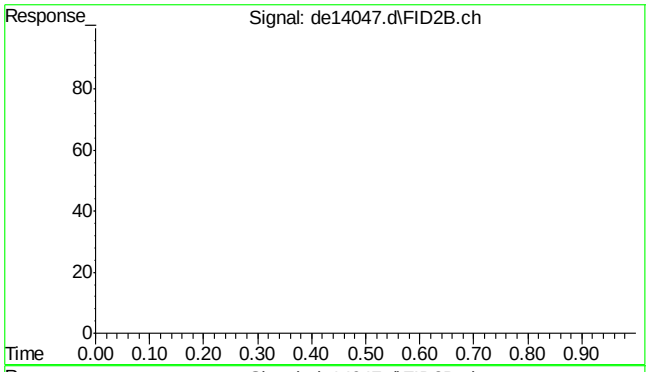
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 797783
Conc: 11.94 µg/ml m

9.1.2

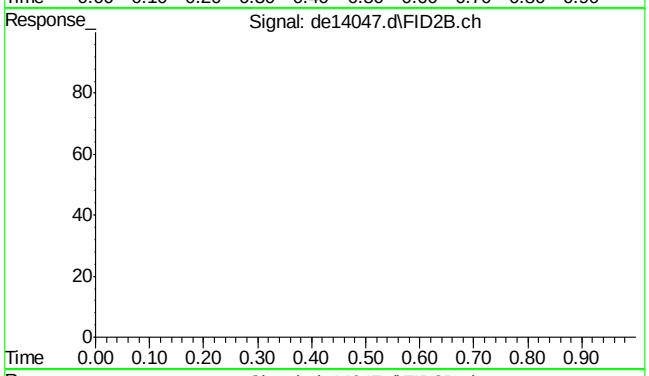
9

SGS ACCUTEST MC45538



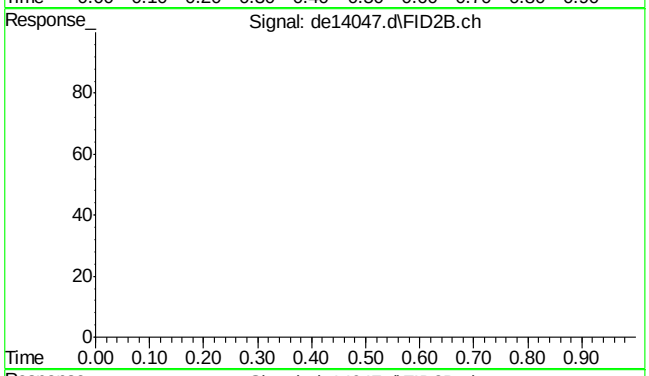
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



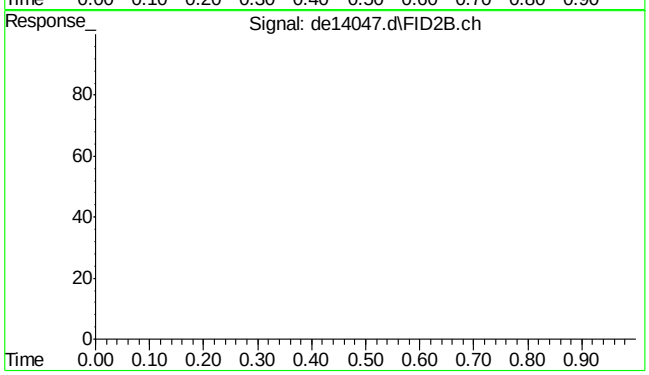
#43 bht

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 MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13983.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 3:16 pm
Operator : thomasa
Sample : op47246-mb
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 16:44:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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	6.713	1481065	16.058 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 80.29%#		
6) s 2-bromonaphthalene	7.457	1049422	16.723 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 83.61%#		
11) s o-terphenyl	9.983	1527978	14.918 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 74.59%#		
35) s 1-chlorooctadecane	11.227	686236	12.130 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 60.65%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	2042832	20.802 µg/mlm
25) h c-9	2.648	837193	11.333 µg/mlm
41) h c-36	17.008	828647	12.404 µg/mlm

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

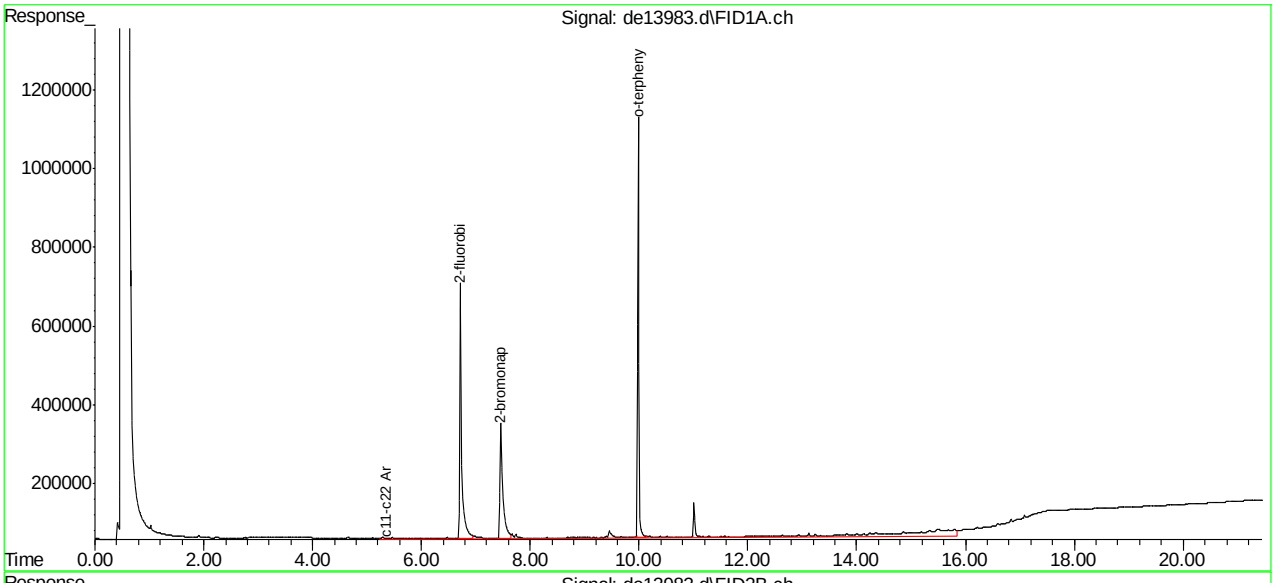
SGS ACCUTEST MC45538

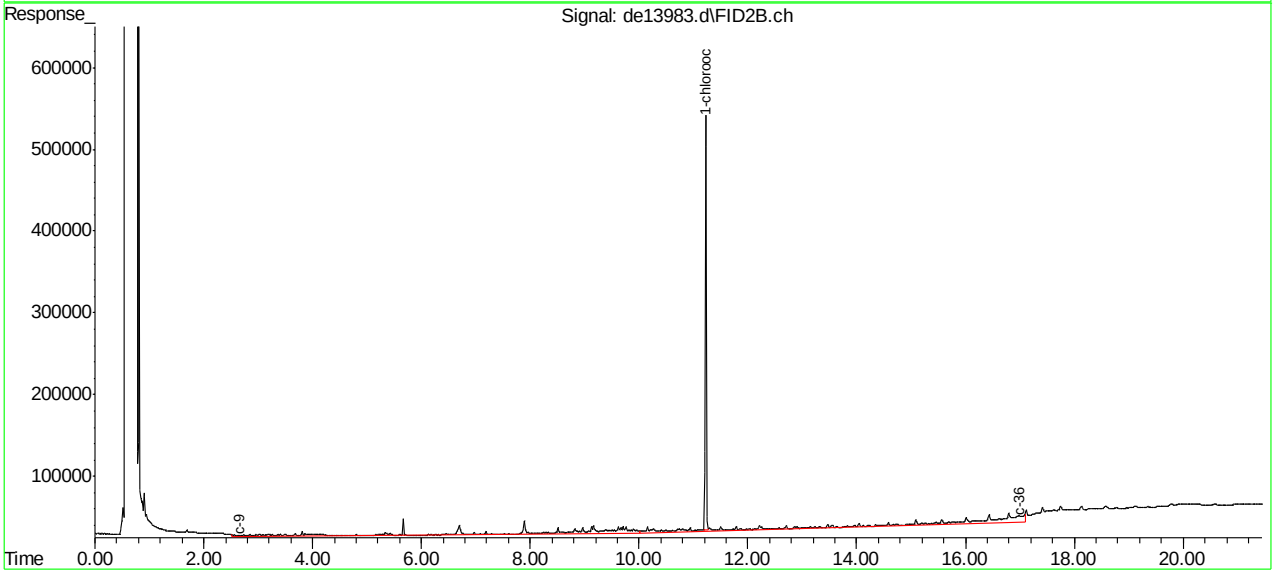
Quantitation Report (QT Reviewed)

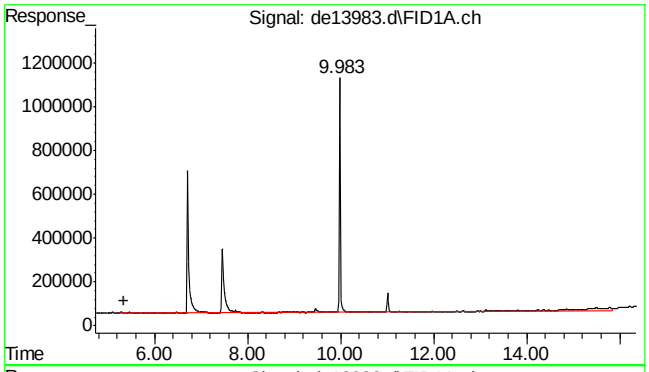
Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13983.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 3:16 pm
Operator : thomasa
Sample : op47246-mb
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 16:44:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 2016
Response via : Initial Calibration
Integrator: RTE

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

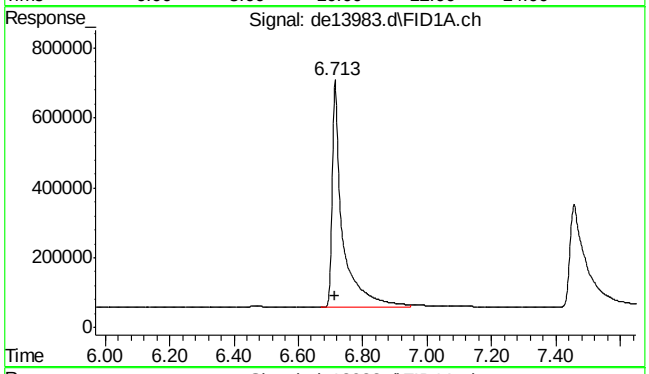






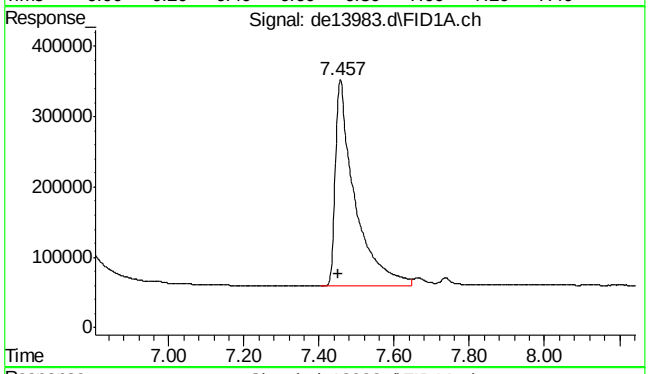
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2042832
Conc: 20.80 µg/ml m



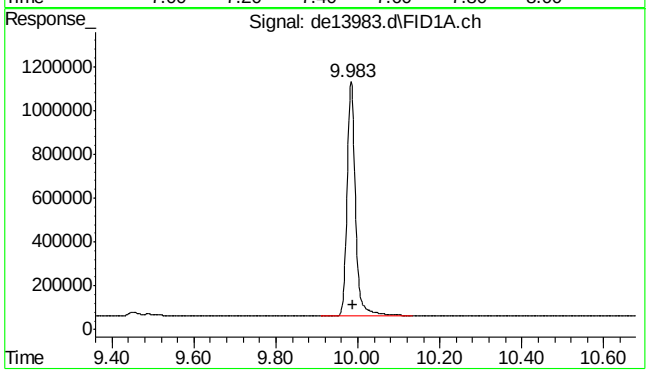
#4 2-fluorobiphenyl

R.T.: 6.713 min
Delta R.T.: 0.000 min
Response: 1481065
Conc: 16.06 µg/ml



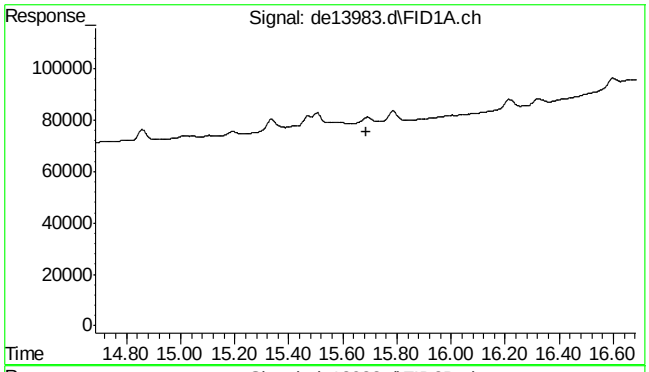
#6 2-bromonaphthalene

R.T.: 7.457 min
Delta R.T.: 0.007 min
Response: 1049422
Conc: 16.72 µg/ml



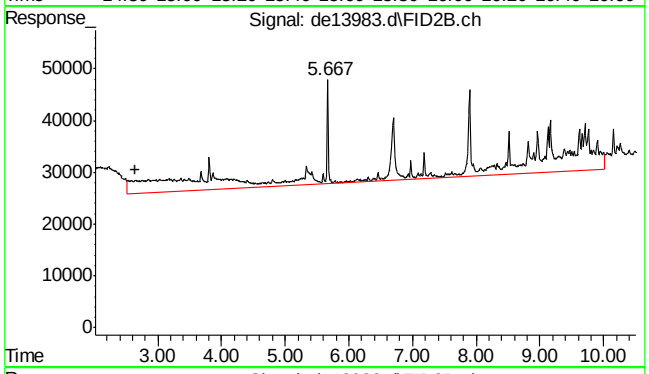
#11 o-terphenyl

R.T.: 9.983 min
Delta R.T.: -0.005 min
Response: 1527978
Conc: 14.92 µg/ml



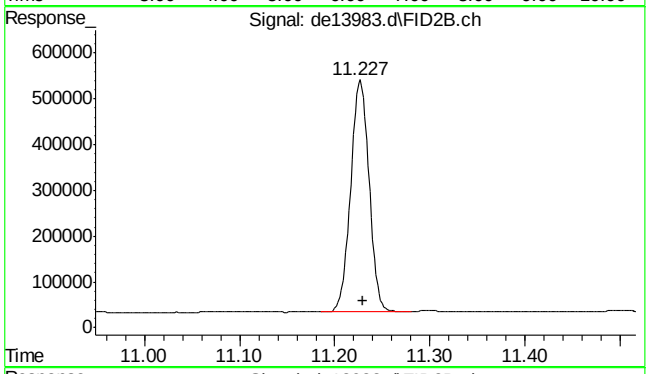
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.685 min
Response: 0
Conc: N.D.



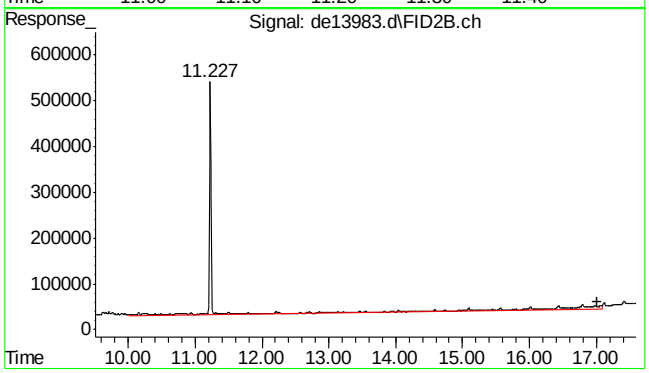
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 837193
Conc: 11.33 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.003 min
Response: 686236
Conc: 12.13 µg/ml



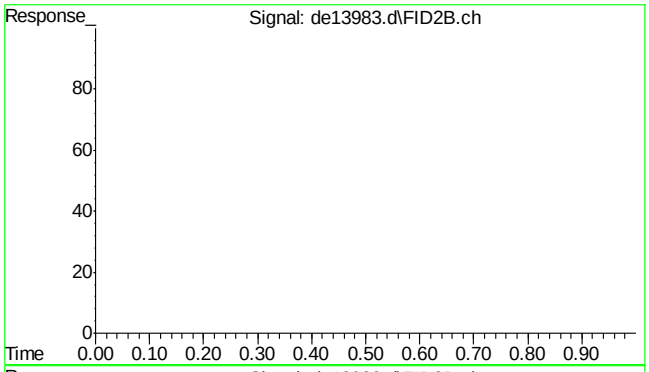
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 828647
Conc: 12.40 µg/ml m

9.2.1

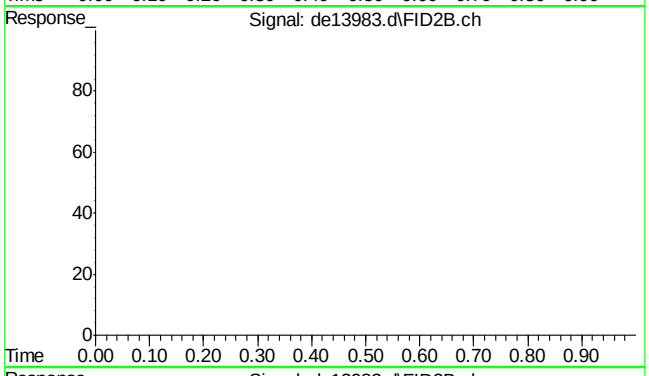
9

SGS ACCUTEST MC45538



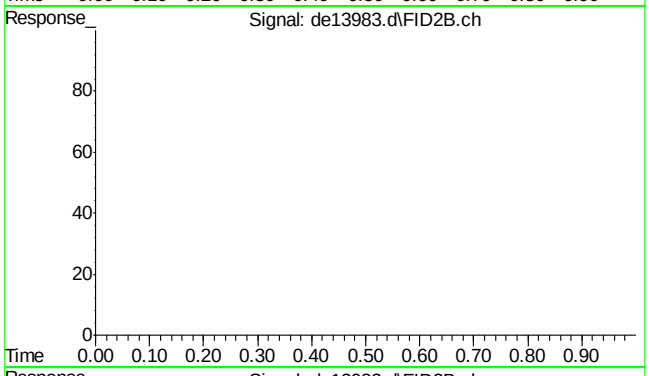
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



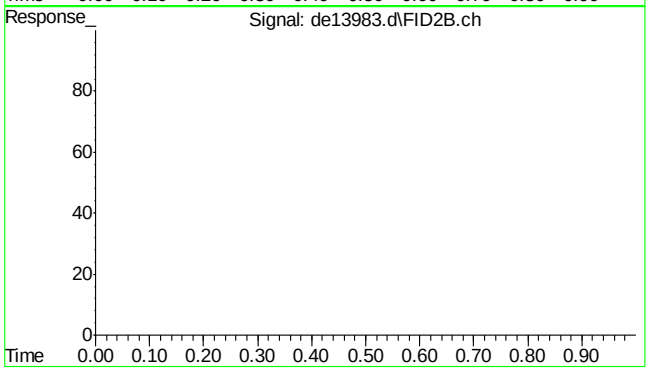
#43 bht

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 MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14016.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:42 am
Operator : thomasa
Sample : op47259-mb
Misc : op47259,gde784,11.18,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:21:07 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	6.695	1548179	16.786 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 83.93%#		
6) s 2-bromonaphthalene	7.430	1072006	17.082 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 85.41%#		
11) s o-terphenyl	9.967	1751372	17.099 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 85.50%#		
35) s 1-chlorooctadecane	11.225	937136	16.565 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 82.83%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3432451	34.952 µg/mlm
25) h c-9	2.648	886999	12.007 µg/mlm
41) h c-36	17.008	831942	12.453 µg/mlm

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

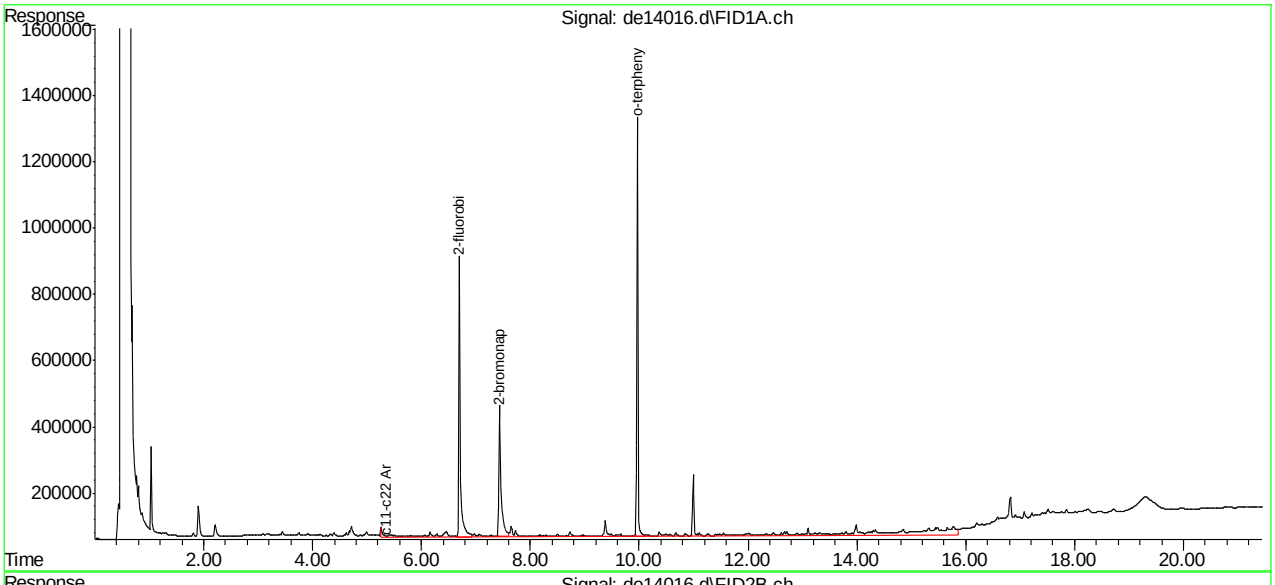
SGS ACCUTEST MC45538

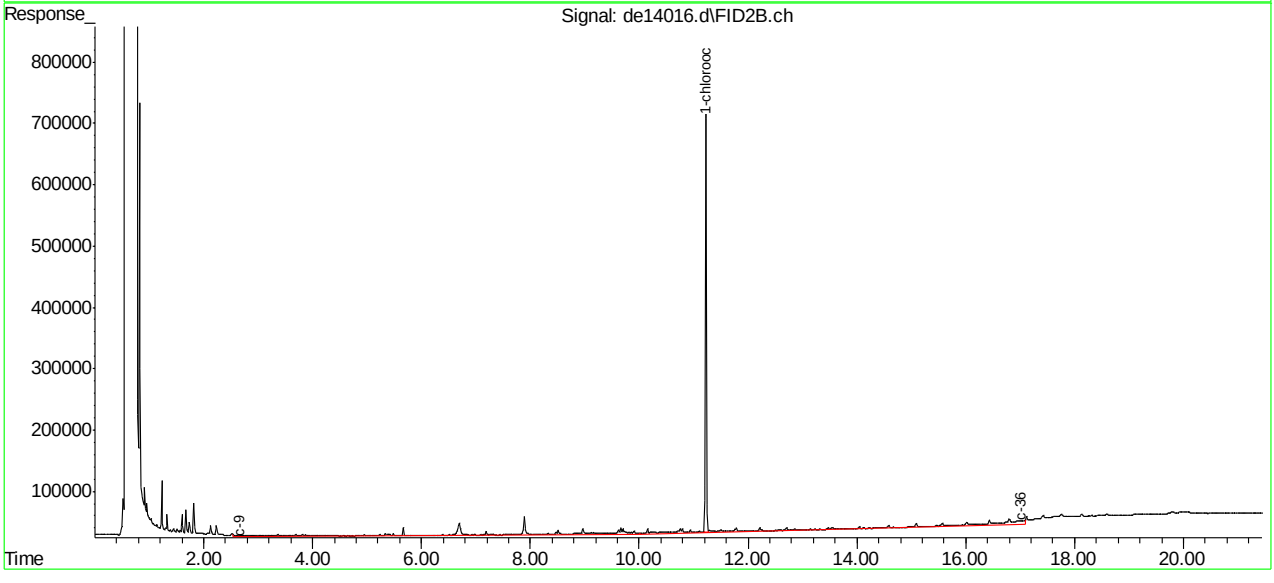
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14016.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:42 am
Operator : thomasa
Sample : op47259-mb
Misc : op47259,gde784,11.18,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:21:07 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 2016
Response via : Initial Calibration
Integrator: RTE

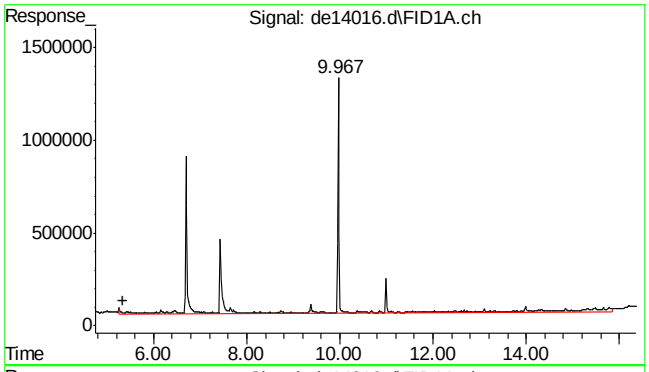
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





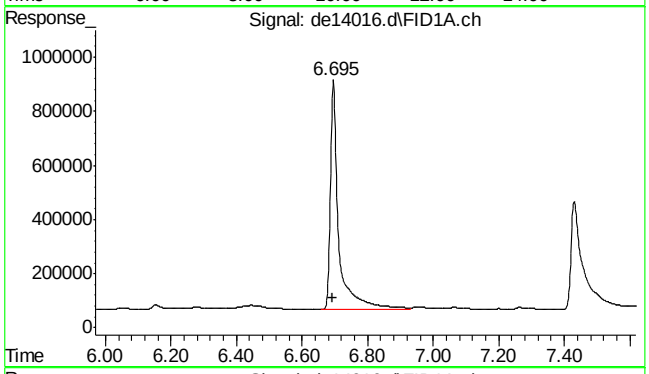
EPH160504W.M Wed May 04 13:27:28 2016 Page: 2

SGS ACCUTEST MC45538



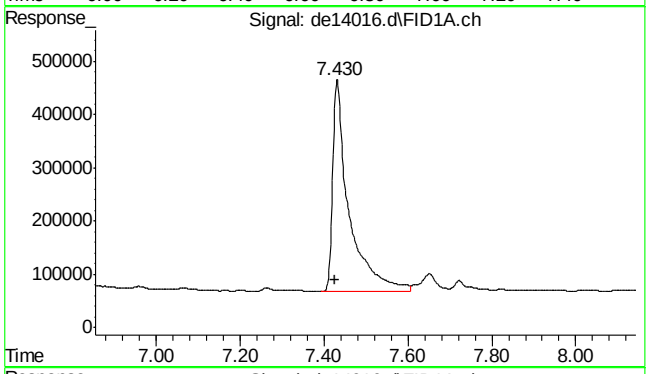
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3432451
Conc: 34.95 µg/ml m



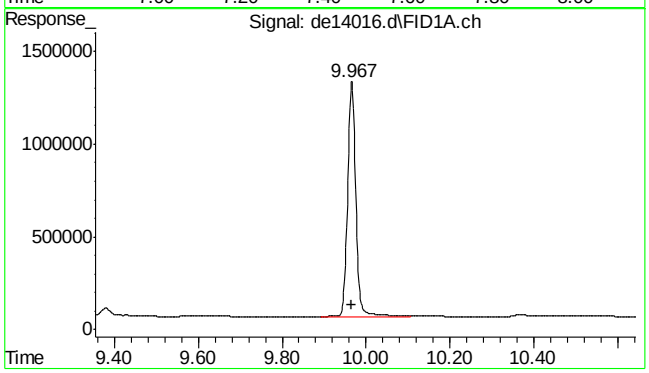
#4 2-fluorobiphenyl

R.T.: 6.695 min
Delta R.T.: 0.003 min
Response: 1548179
Conc: 16.79 µg/ml



#6 2-bromonaphthalene

R.T.: 7.430 min
Delta R.T.: 0.005 min
Response: 1072006
Conc: 17.08 µg/ml



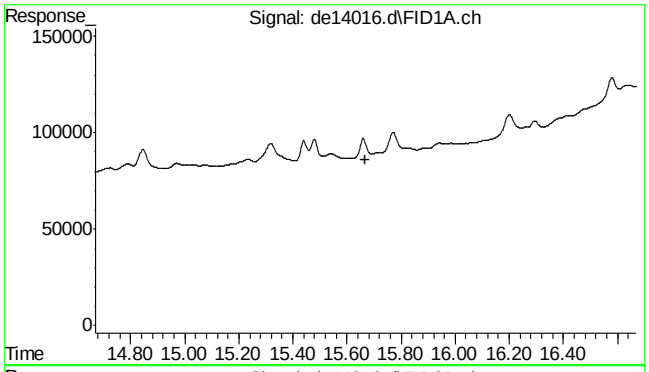
#11 o-terphenyl

R.T.: 9.967 min
Delta R.T.: 0.002 min
Response: 1751372
Conc: 17.10 µg/ml

9.2.2

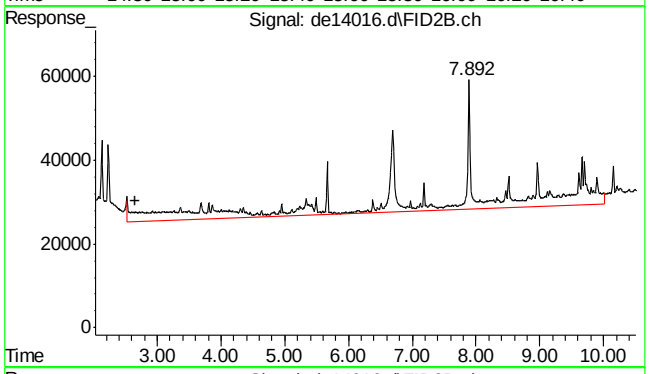
9

SGS ACCUTEST MC45538



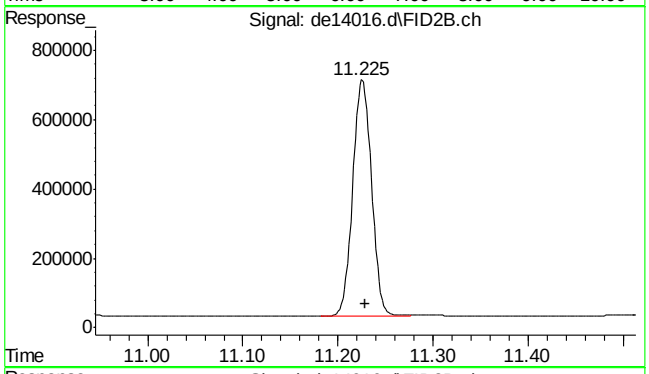
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



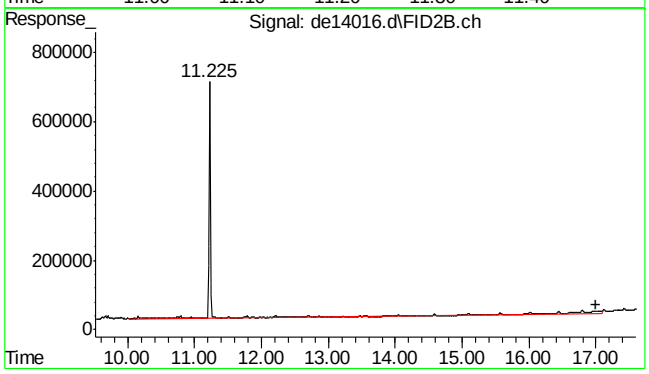
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 886999
Conc: 12.01 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 937136
Conc: 16.56 µg/ml



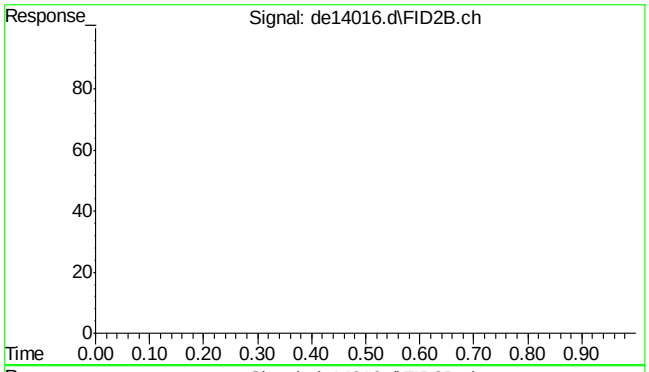
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 831942
Conc: 12.45 µg/ml m

9.2.2

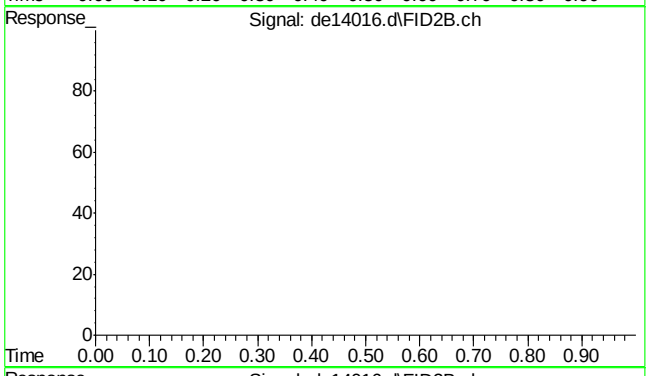
9

SGS ACCUTEST MC45538



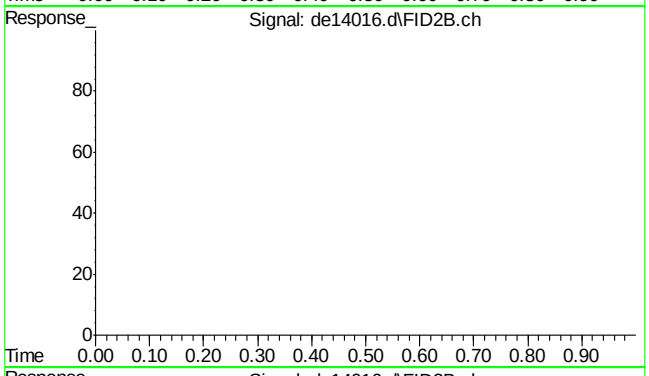
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



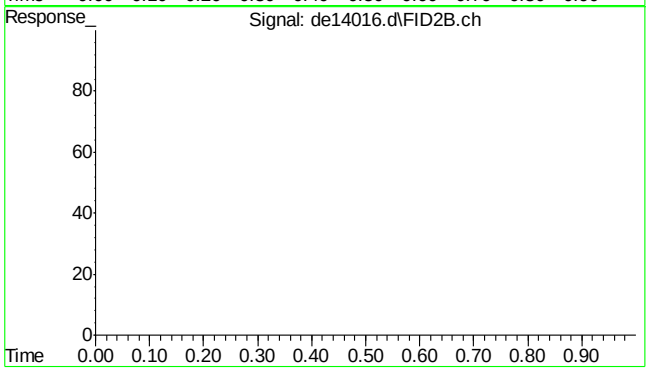
#43 bht

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 MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13981.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:21 pm
Operator : thomasa
Sample : op47246-bs
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:07:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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	6.720	1558471	16.898 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	84.49%#
6) s 2-bromonaphthalene	7.455	942076	15.012 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	75.06%#
11) s o-terphenyl	9.988	1672654	16.330 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	81.65%#
35) s 1-chlorooctadecane	11.230	851543	15.052 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	75.26%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36044102	367.031 µg/mlm
2) naphthalene	5.270	1328665	12.882 µg/ml
3) 2-methylnaphthalene	6.168	1428892	13.943 µg/ml
5) acenaphthylene	7.283	1551791	15.425 µg/ml
7) acenaphthene	7.523	1767499	17.098 µg/ml
8) fluorene	8.172	1733549	17.068 µg/ml
9) phenanthrene	9.357	1873543	18.411 µg/ml
10) anthracene	9.415	2139125	22.051 µg/ml
12) fluoranthene	10.865	2146963	21.482 µg/ml
13) pyrene	11.123	2166141	21.349 µg/ml
14) benzo(a)anthracene	12.690	2046823	21.172 µg/ml
15) chrysene	12.737	2251065	23.126 µg/ml
16) benzo(B)fluoranthene	13.995	2049201	20.698 µg/ml
17) benzo(k)fluoranthene	14.020	2124105	22.477 µg/ml
18) benzo(a)pyrene	14.330	1979649	21.417 µg/ml
19) indeno(1,2,3-cd)pyrene	15.477	1345399	14.213 µg/ml
20) dibenzo(ah)anthracene	15.517	1745623	19.099 µg/ml
21) benzo(ghi)perylene	15.702	2015662	21.880 µg/ml
25) h c-9	2.648	959634	12.990 µg/mlm
26) h c-10	3.815	1137043	15.392 µg/ml
28) c-12	5.665	1253750	16.972 µg/ml
30) c-14	7.183	1285300	17.399 µg/ml
31) c-16	8.515	1358573	18.391 µg/ml
32) c-18	9.708	1455099	19.698 µg/ml
33) c-19	10.265	1461210	21.872 µg/ml
34) c-20	10.797	1422370	21.291 µg/ml
36) c-22	11.792	1419255	21.244 µg/ml
37) c-24	12.710	1402810	20.998 µg/ml
38) c-26	13.562	1372989	20.552 µg/ml
39) c-28	14.357	1352707	20.248 µg/ml

SGS ACCUTEST MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13981.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:21 pm
Operator : thomasa
Sample : op47246-bs
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:07:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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
40) h c-30	15.098	1369858	20.505 µg/mlm
41) h c-36	17.008	1233681	18.467 µg/mlm

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

9.3.1

9

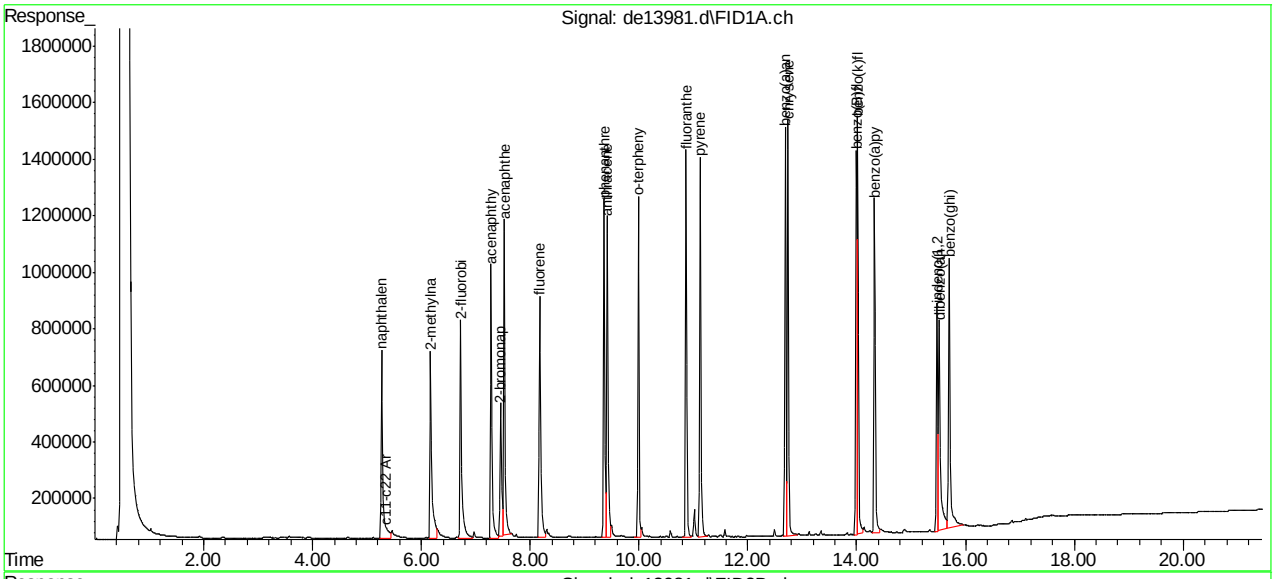
SGS ACCUTEST MC45538

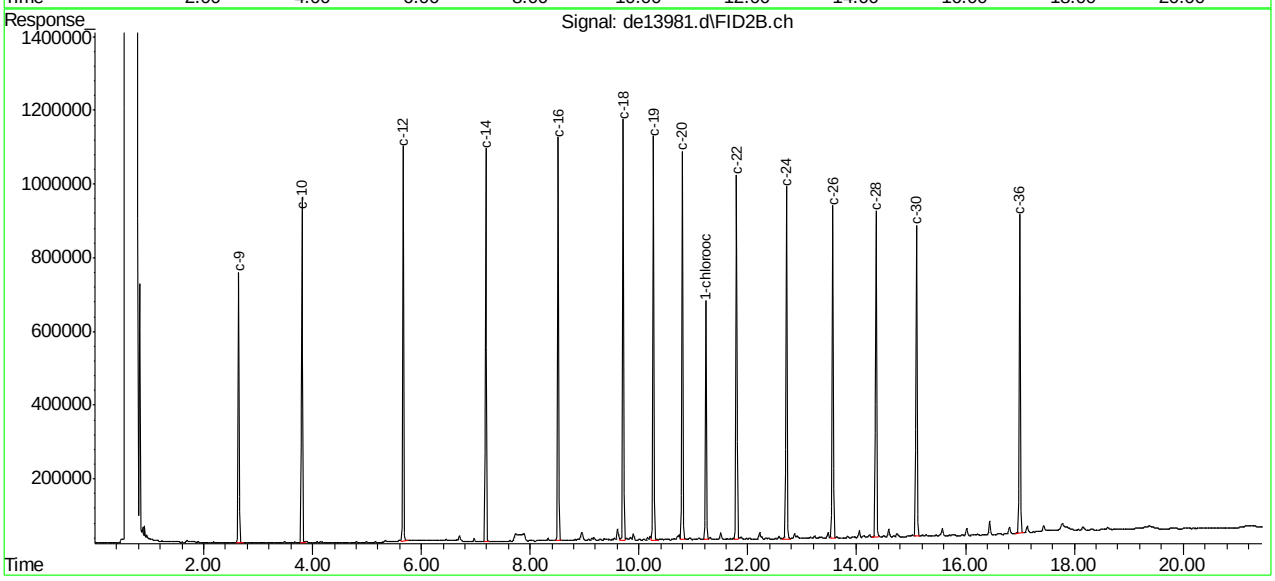
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13981.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:21 pm
Operator : thomasa
Sample : op47246-bs
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

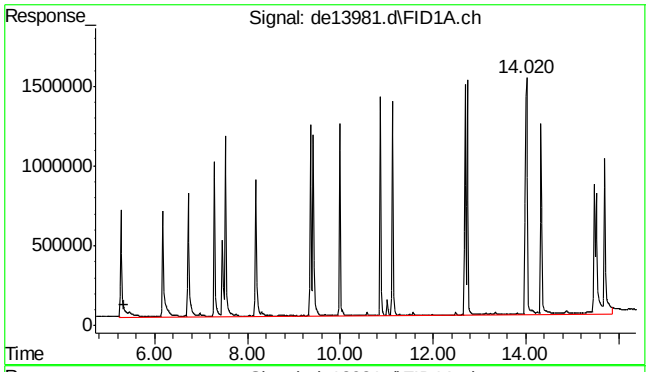
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:07:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 2016
Response via : Initial Calibration
Integrator: RTE

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



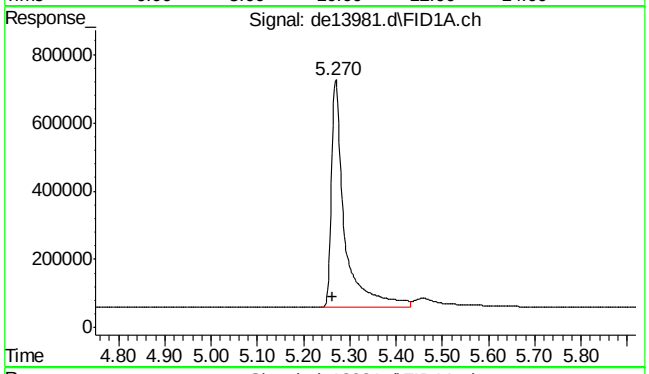


SGS ACCUTEST MC45538



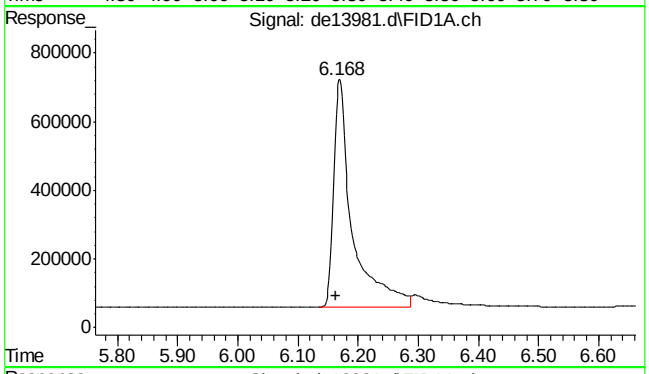
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36044102
Conc: 367.03 µg/ml m



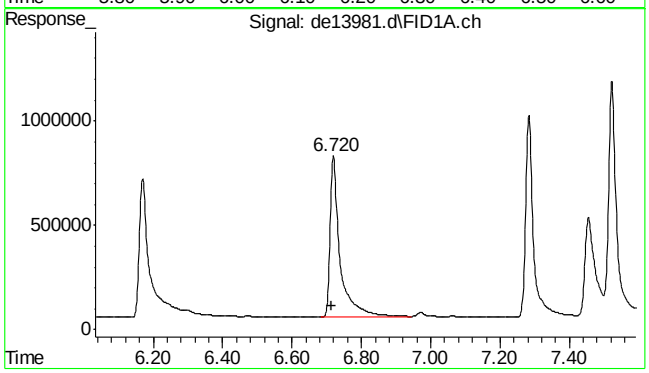
#2 naphthalene

R.T.: 5.270 min
Delta R.T.: 0.008 min
Response: 1328665
Conc: 12.88 µg/ml



#3 2-methylnaphthalene

R.T.: 6.168 min
Delta R.T.: 0.005 min
Response: 1428892
Conc: 13.94 µg/ml



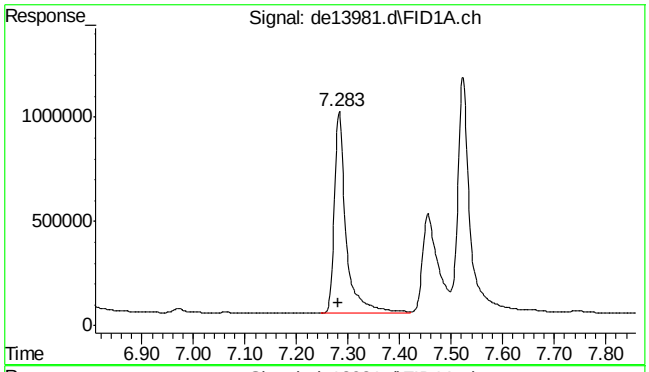
#4 2-fluorobiphenyl

R.T.: 6.720 min
Delta R.T.: 0.007 min
Response: 1558471
Conc: 16.90 µg/ml

9.3.1

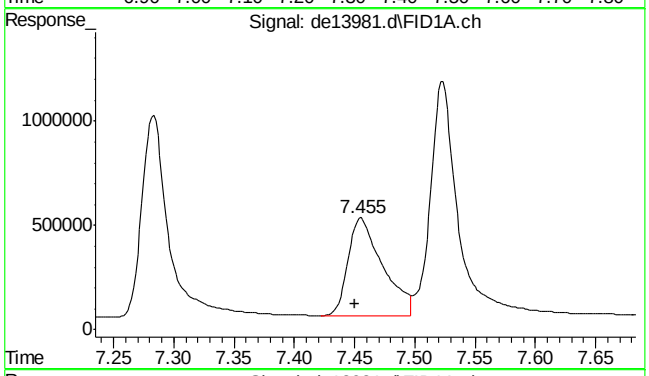
9

SGS ACCUTEST MC45538



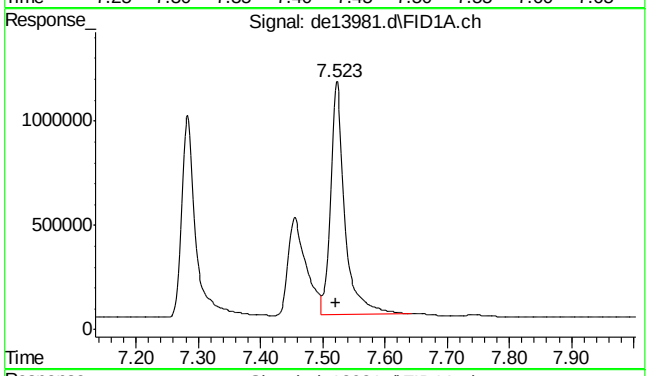
#5 acenaphthylene

R.T.: 7.283 min
Delta R.T.: 0.003 min
Response: 1551791
Conc: 15.43 µg/ml



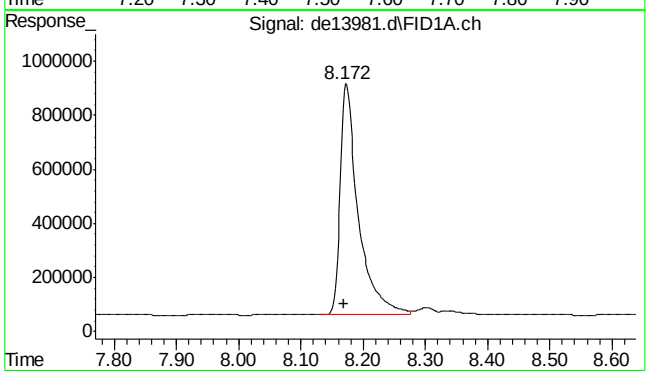
#6 2-bromonaphthalene

R.T.: 7.455 min
Delta R.T.: 0.005 min
Response: 942076
Conc: 15.01 µg/ml



#7 acenaphthene

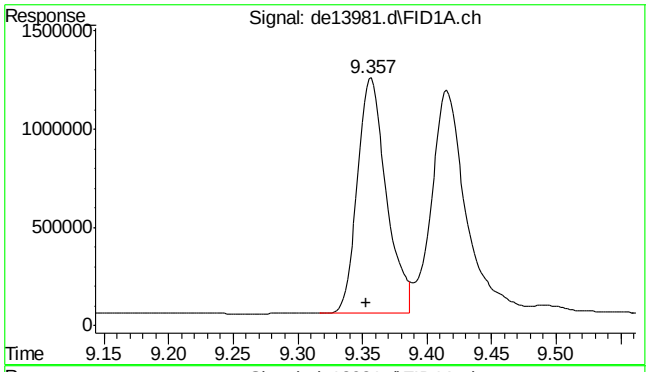
R.T.: 7.523 min
Delta R.T.: 0.002 min
Response: 1767499
Conc: 17.10 µg/ml



#8 fluorene

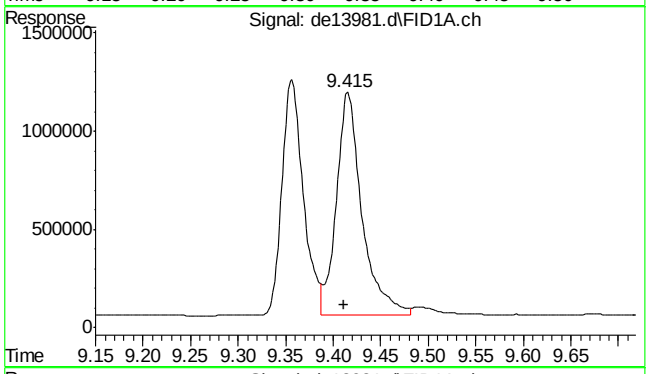
R.T.: 8.172 min
Delta R.T.: 0.003 min
Response: 1733549
Conc: 17.07 µg/ml

SGS ACCUTEST MC45538



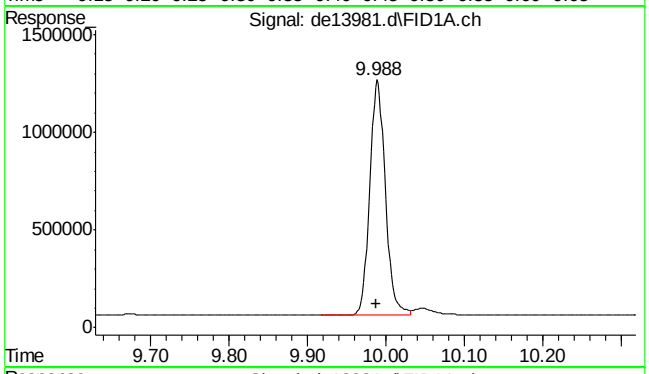
#9 phenanthrene

R.T.: 9.357 min
Delta R.T.: 0.003 min
Response: 1873543
Conc: 18.41 µg/ml



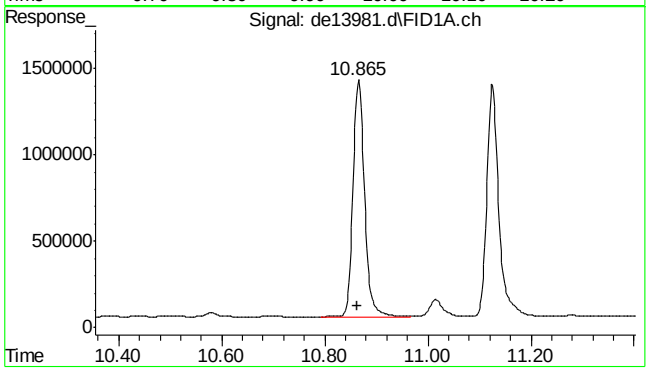
#10 anthracene

R.T.: 9.415 min
Delta R.T.: 0.003 min
Response: 2139125
Conc: 22.05 µg/ml



#11 o-terphenyl

R.T.: 9.988 min
Delta R.T.: 0.000 min
Response: 1672654
Conc: 16.33 µg/ml



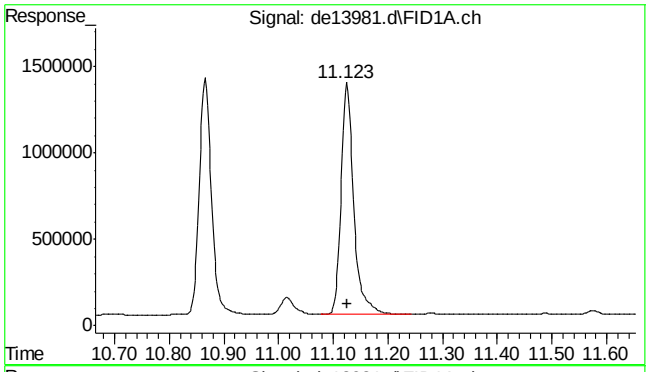
#12 fluoranthene

R.T.: 10.865 min
Delta R.T.: 0.002 min
Response: 2146963
Conc: 21.48 µg/ml

9.3.1

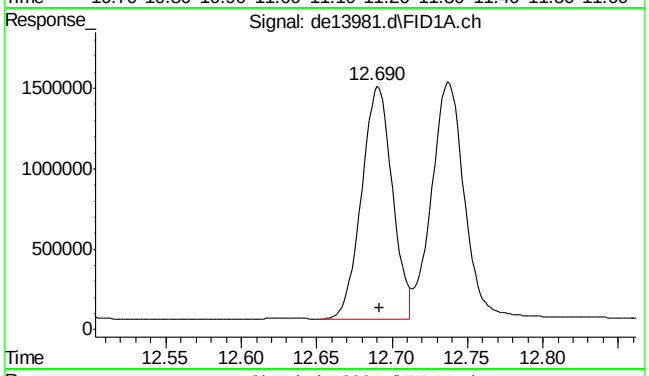
9

SGS ACCUTEST MC45538



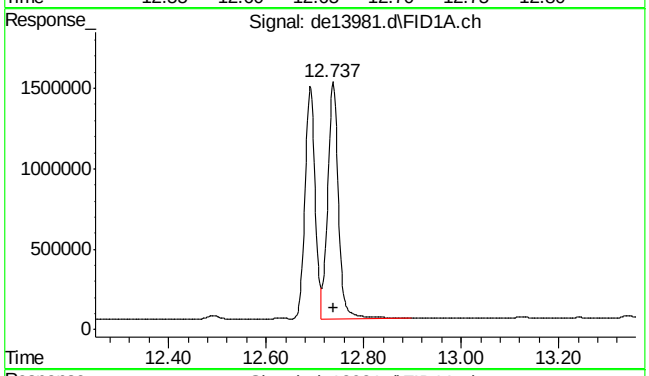
#13 pyrene

R.T.: 11.123 min
Delta R.T.: -0.002 min
Response: 2166141
Conc: 21.35 µg/ml



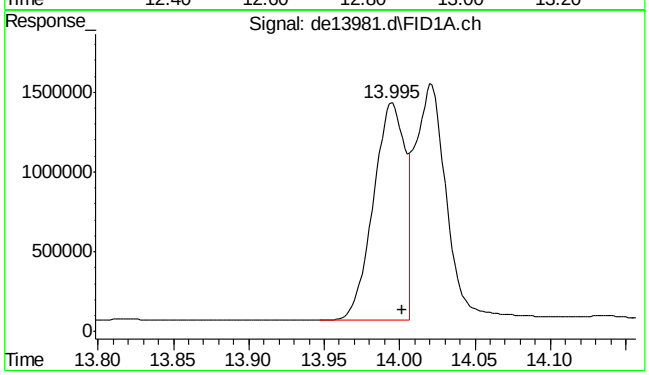
#14 benzo(a)anthracene

R.T.: 12.690 min
Delta R.T.: -0.002 min
Response: 2046823
Conc: 21.17 µg/ml



#15 chrysene

R.T.: 12.737 min
Delta R.T.: -0.002 min
Response: 2251065
Conc: 23.13 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.995 min
Delta R.T.: -0.007 min
Response: 2049201
Conc: 20.70 µg/ml

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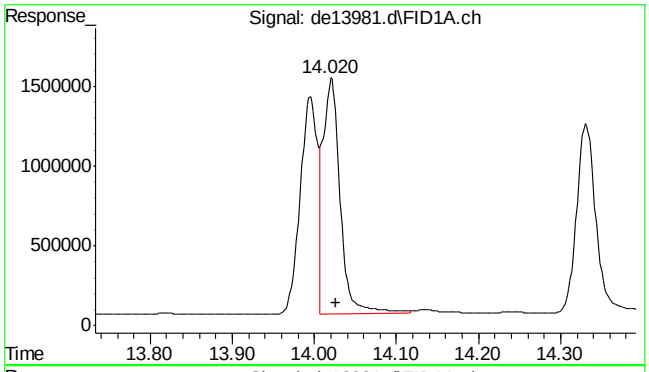
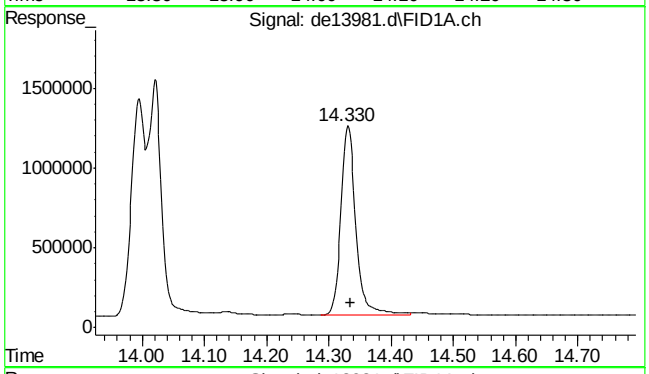


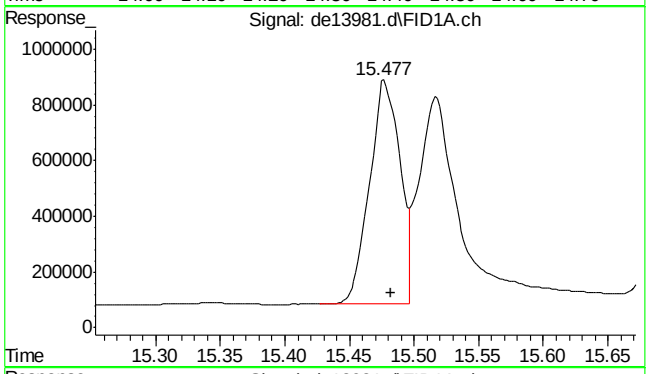
#17 benzo(k)fluoranthene

R.T.: 14.020 min
Delta R.T.: -0.007 min
Response: 2124105
Conc: 22.48 µg/ml



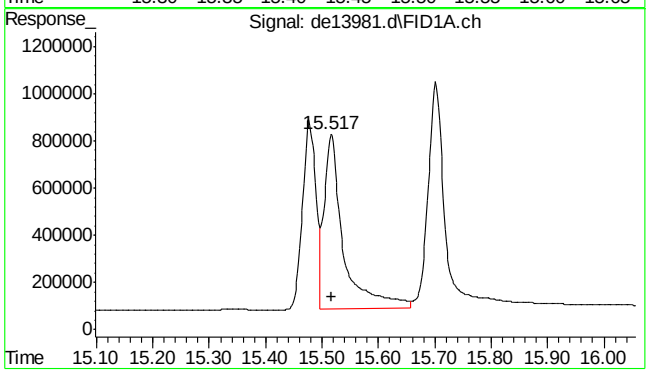
#18 benzo(a)pyrene

R.T.: 14.330 min
Delta R.T.: -0.005 min
Response: 1979649
Conc: 21.42 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.477 min
Delta R.T.: -0.005 min
Response: 1345399
Conc: 14.21 µg/ml



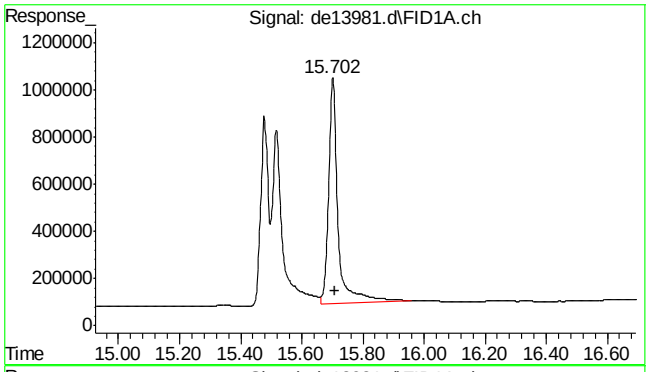
#20 dibenzo(ah)anthracene

R.T.: 15.517 min
Delta R.T.: 0.000 min
Response: 1745623
Conc: 19.10 µg/ml

9.3.1

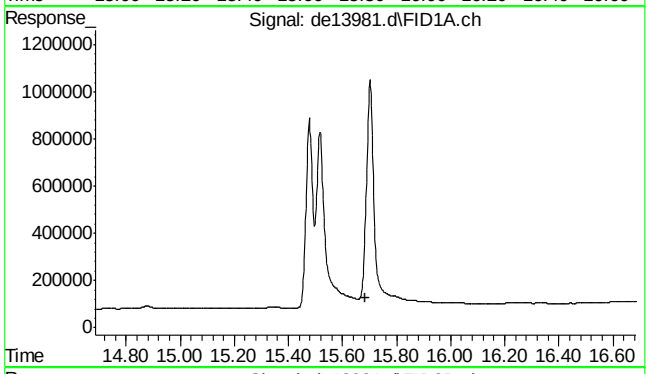
9

SGS ACCUTEST MC45538



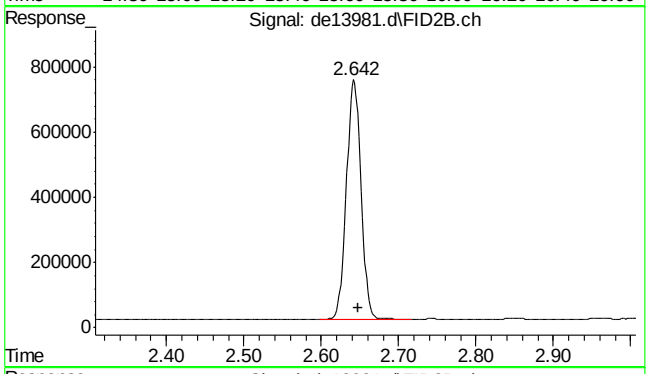
#21 benzo(ghi)perylene

R.T.: 15.702 min
Delta R.T.: -0.005 min
Response: 2015662
Conc: 21.88 µg/ml



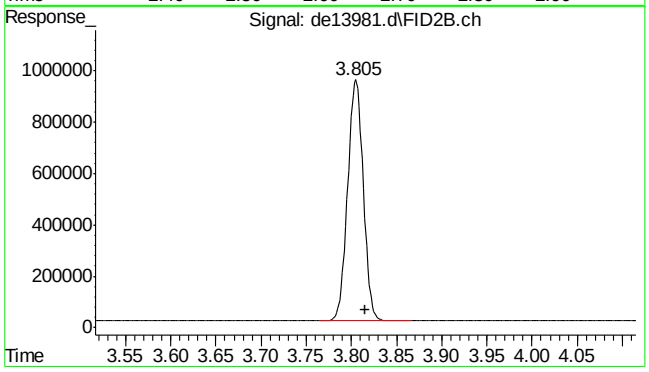
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.685 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 959634
Conc: 12.99 µg/ml m



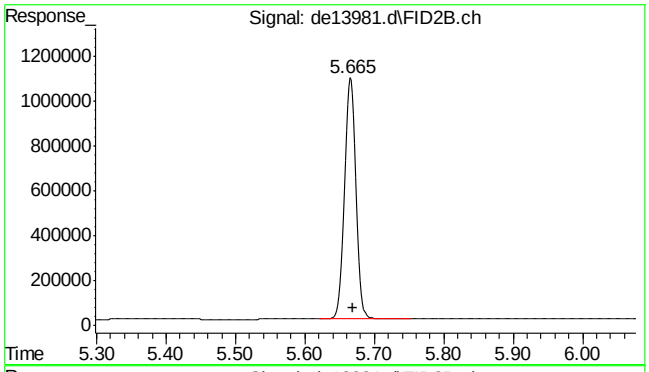
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1137043
Conc: 15.39 µg/ml

9.3.1

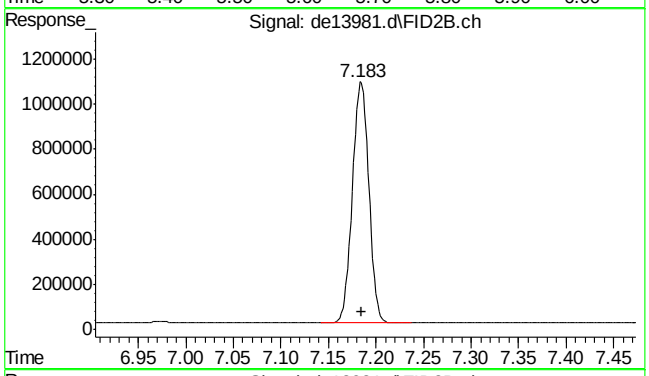
9

SGS ACCUTEST MC45538



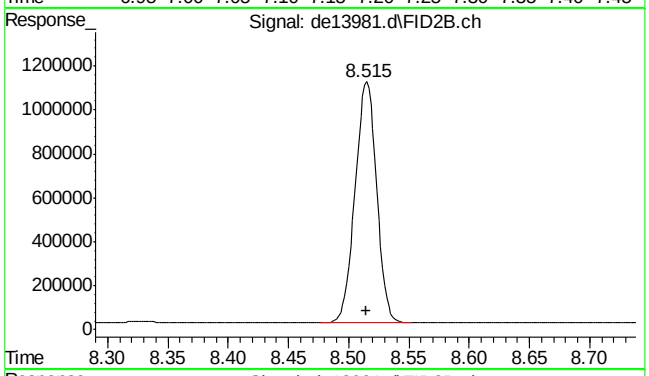
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.003 min
Response: 1253750
Conc: 16.97 µg/ml



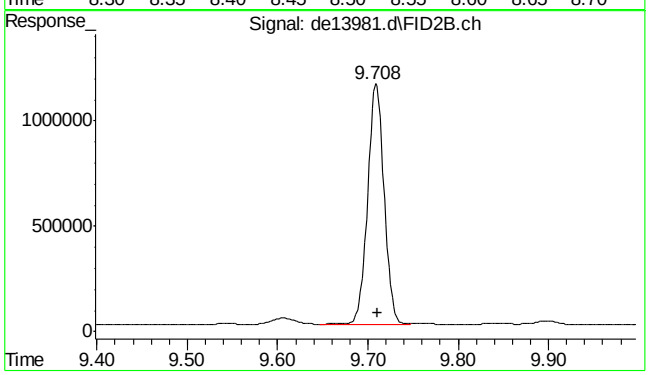
#30 c-14

R.T.: 7.183 min
Delta R.T.: -0.002 min
Response: 1285300
Conc: 17.40 µg/ml



#31 c-16

R.T.: 8.515 min
Delta R.T.: 0.000 min
Response: 1358573
Conc: 18.39 µg/ml



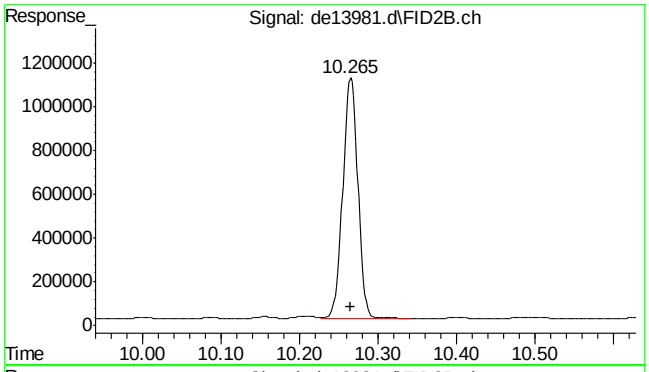
#32 c-18

R.T.: 9.708 min
Delta R.T.: -0.002 min
Response: 1455099
Conc: 19.70 µg/ml

9.3.1

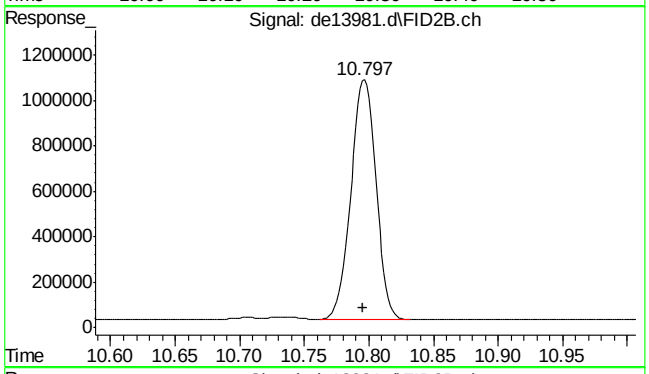
9

SGS ACCUTEST MC45538



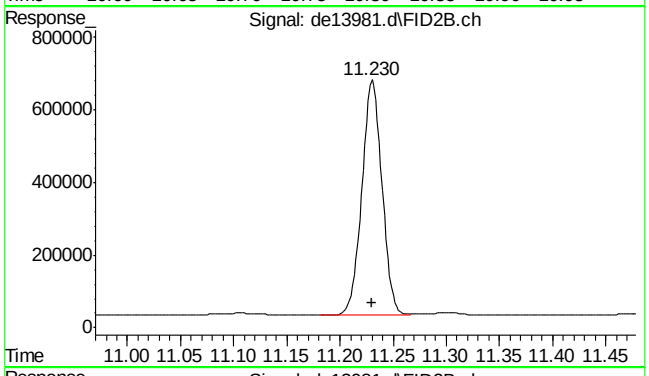
#33 c-19

R.T.: 10.265 min
Delta R.T.: 0.000 min
Response: 1461210
Conc: 21.87 µg/ml



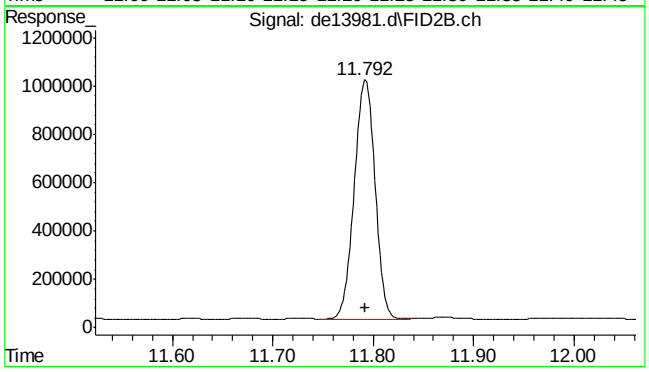
#34 c-20

R.T.: 10.797 min
Delta R.T.: 0.002 min
Response: 1422370
Conc: 21.29 µg/ml



#35 1-chlorooctadecane

R.T.: 11.230 min
Delta R.T.: 0.000 min
Response: 851543
Conc: 15.05 µg/ml



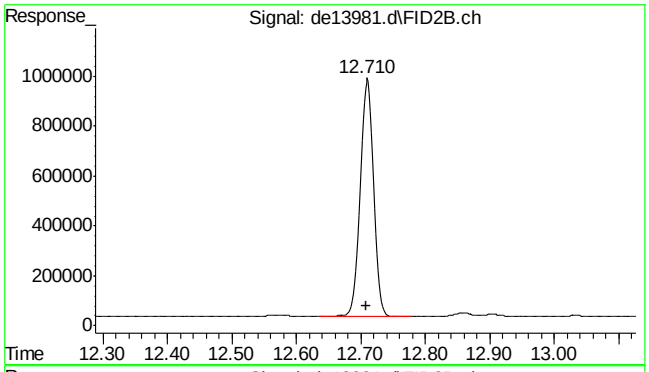
#36 c-22

R.T.: 11.792 min
Delta R.T.: 0.000 min
Response: 1419255
Conc: 21.24 µg/ml

9.3.1

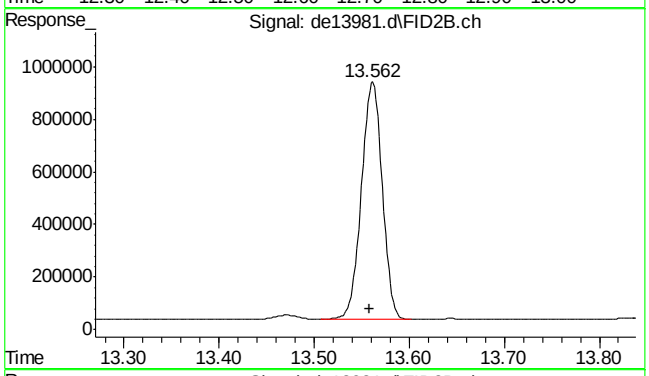
9

SGS ACCUTEST MC45538



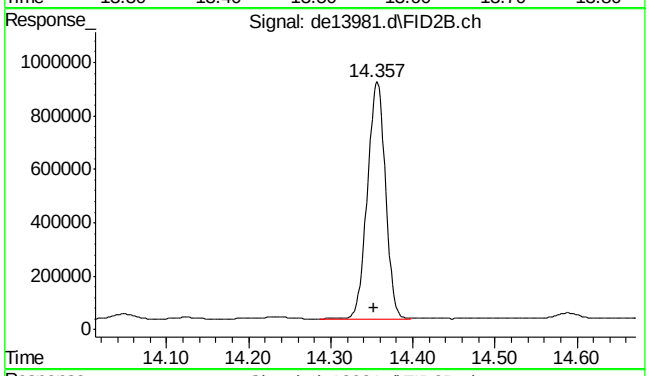
#37 c-24

R.T.: 12.710 min
Delta R.T.: 0.002 min
Response: 1402810
Conc: 21.00 µg/ml



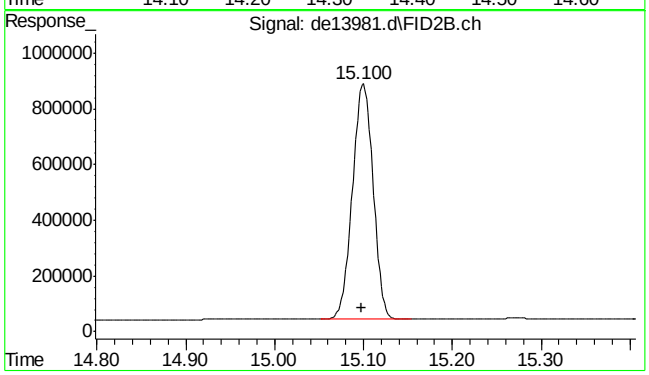
#38 c-26

R.T.: 13.562 min
Delta R.T.: 0.003 min
Response: 1372989
Conc: 20.55 µg/ml



#39 c-28

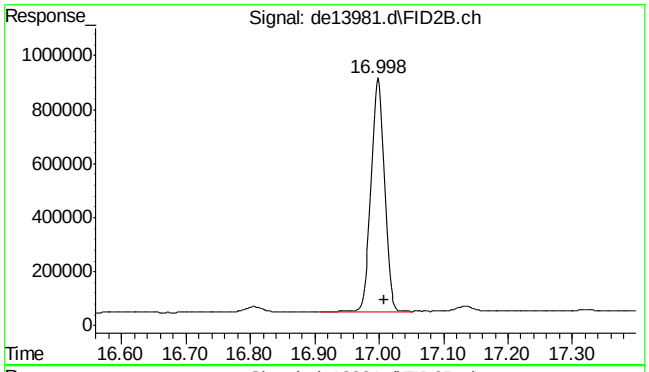
R.T.: 14.357 min
Delta R.T.: 0.003 min
Response: 1352707
Conc: 20.25 µg/ml



#40 c-30

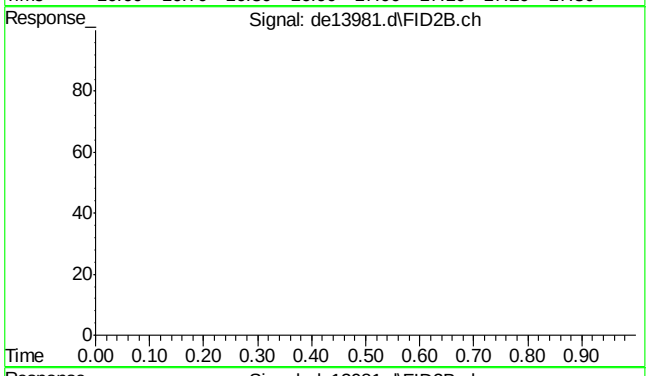
R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1369858
Conc: 20.50 µg/ml m

SGS ACCUTEST MC45538



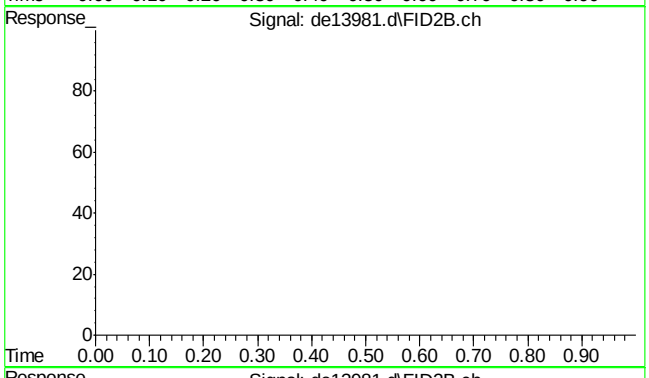
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1233681
Conc: 18.47 µg/ml m



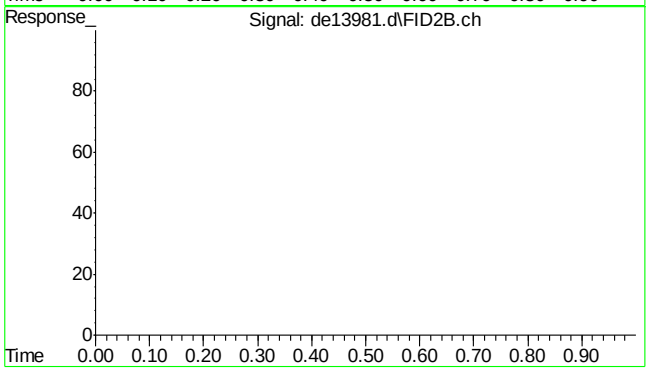
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

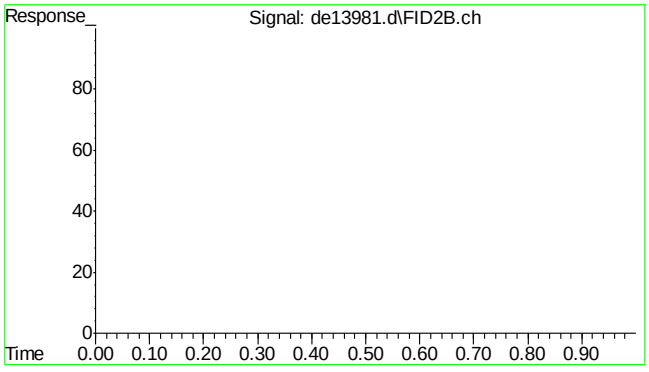
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.1

9

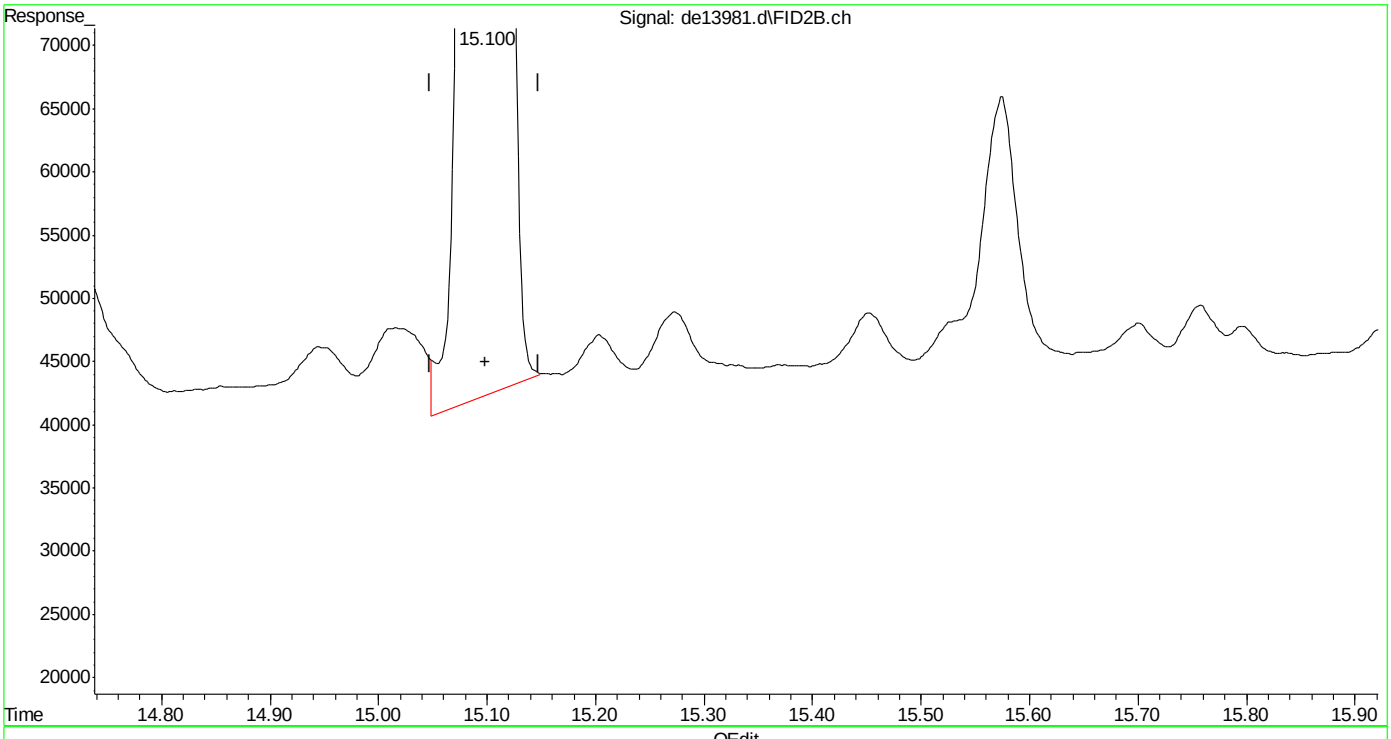
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13981.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:21 pm
Operator : thomasa
Sample : op47246-bs
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:06:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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)
15.098min 20.653 µg/ml
response 1379775

(+) = Expected Retention Time
EPH160429W.M Fri Apr 29 15:07:01 2016

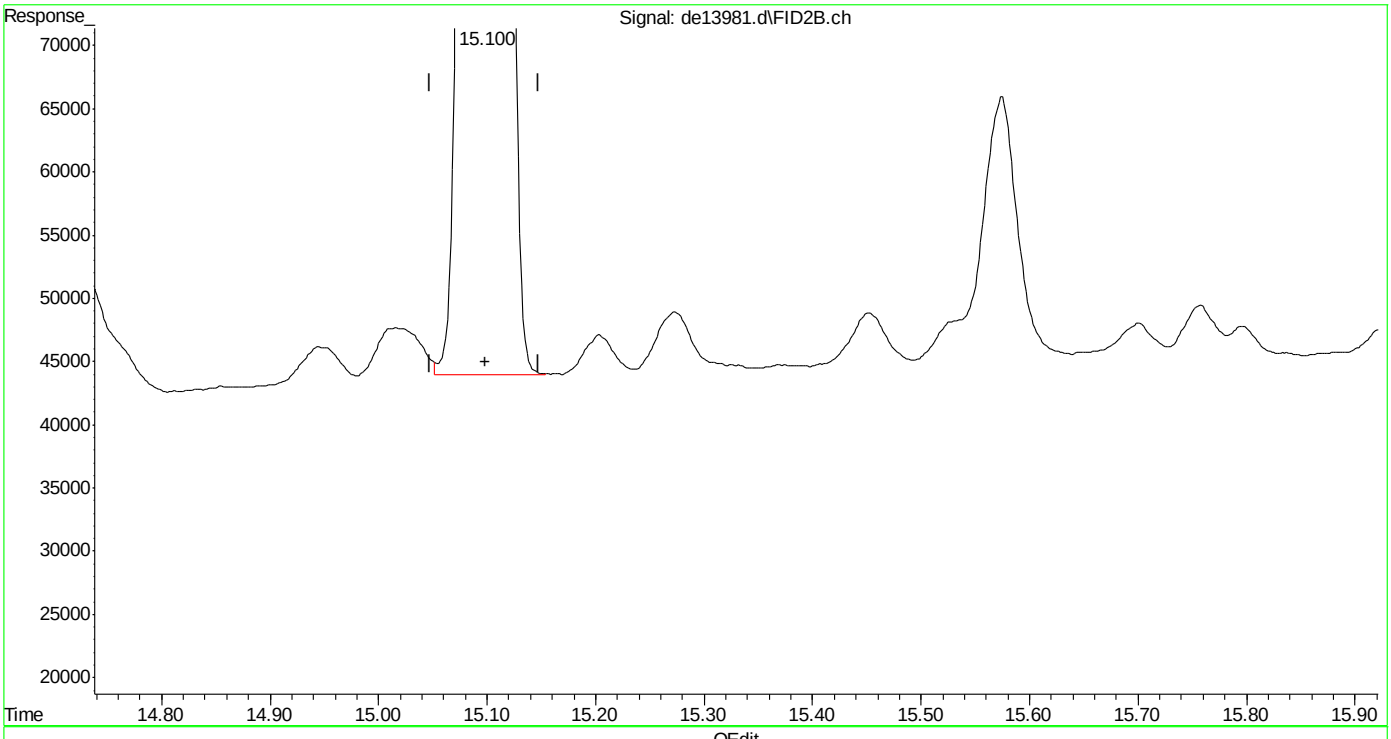
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13981.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:21 pm
Operator : thomasa
Sample : op47246-bs
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:06:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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)
15.098min 20.505 µg/ml m
response 1369858

(+) = Expected Retention Time
EPH160429W.M Fri Apr 29 15:07:06 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
04/29/16 16:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13982.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:48 pm
Operator : thomasa
Sample : op47246-bsd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:11:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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	6.713	1779399	19.293 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 96.47%#	
6) s 2-bromonaphthalene	7.450	1130270	18.011 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 90.05%#	
11) s o-terphenyl	9.983	1738147	16.970 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 84.85%#	
35) s 1-chlorooctadecane	11.228	730168	12.906 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 64.53%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	38543890	392.485 µg/mlm
2) naphthalene	5.263	1538321	14.915 µg/ml
3) 2-methylnaphthalene	6.163	1770184	17.273 µg/ml
5) acenaphthylene	7.277	1750944	17.405 µg/ml
7) acenaphthene	7.518	2114685	20.456 µg/ml
8) fluorene	8.168	1941532	19.116 µg/ml
9) phenanthrene	9.352	2057602	20.220 µg/ml
10) anthracene	9.408	2301021	23.720 µg/ml
12) fluoranthene	10.860	2351187	23.526 µg/ml
13) pyrene	11.120	2377525	23.433 µg/ml
14) benzo(a)anthracene	12.685	2252371	23.298 µg/ml
15) chrysene	12.733	2401986	24.676 µg/ml
16) benzo(B)fluoranthene	13.988	2339758	23.633 µg/mlm
17) benzo(k)fluoranthene	14.013	2316196	24.509 µg/ml
18) benzo(a)pyrene	14.325	2138150	23.131 µg/ml
19) indeno(1,2,3-cd)pyrene	15.470	1306802	13.805 µg/ml
20) dibenzo(ah)anthracene	15.512	1768712	19.352 µg/ml
21) benzo(ghi)perylene	15.693	2195938	23.837 µg/ml
25) h c-9	2.648	929488	12.582 µg/mlm
26) h c-10	3.815	1106623	14.980 µg/ml
28) c-12	5.667	1206882	16.337 µg/ml
29) 2-methylnaphthalene #2	6.390	1711	0.021 µg/ml
30) c-14	7.183	1228923	16.636 µg/ml
31) c-16	8.513	1268395	17.170 µg/ml
32) c-18	9.707	1344147	18.196 µg/ml
33) c-19	10.263	1341932	20.087 µg/ml
34) c-20	10.793	1325899	19.847 µg/ml
36) c-22	11.790	1309691	19.604 µg/ml
37) c-24	12.707	1288285	19.284 µg/ml
38) c-26	13.557	1258095	18.832 µg/ml

SGS ACCUTEST MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13982.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:48 pm
Operator : thomasa
Sample : op47246-bsd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:11:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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	14.350	1243674	18.616	µg/ml
40) h	c-30	15.098	1232434	18.448	µg/ml
41) h	c-36	17.008	1065519	15.949	µg/mlm

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

9.3.2

9

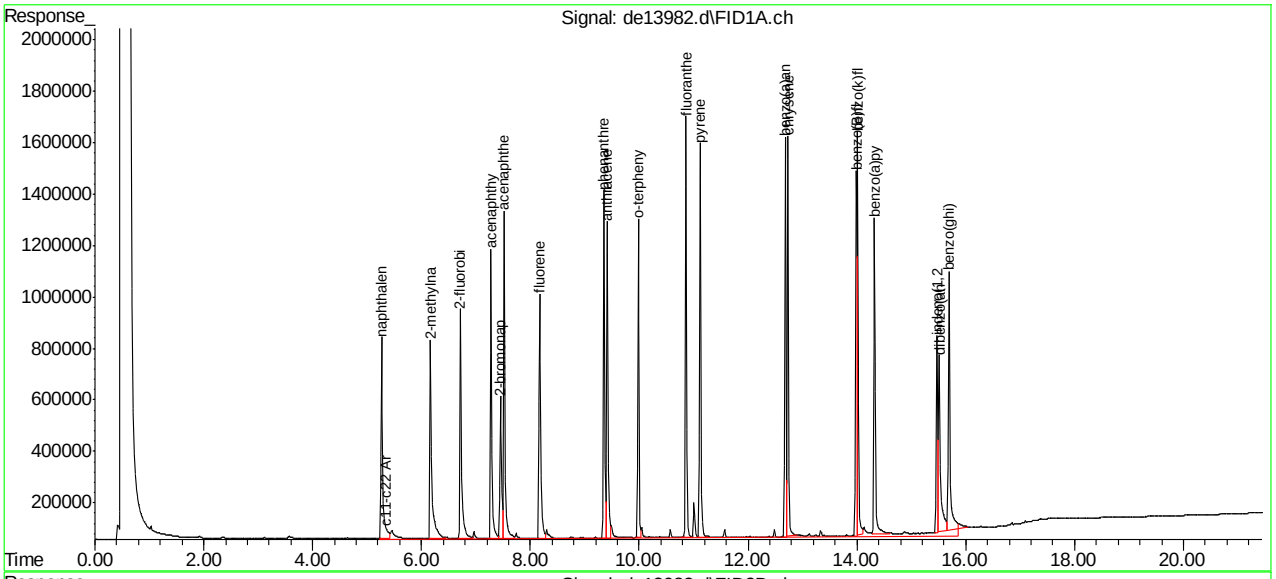
SGS ACCUTEST MC45538

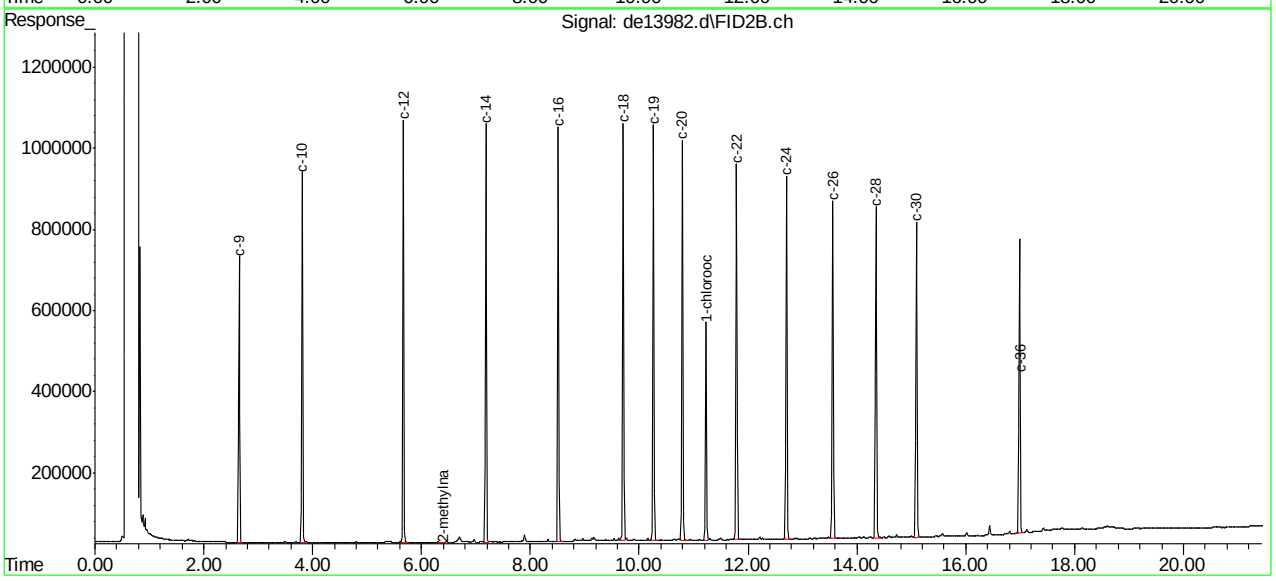
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13982.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:48 pm
Operator : thomasa
Sample : op47246-bsd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:11:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 2016
Response via : Initial Calibration
Integrator: RTE

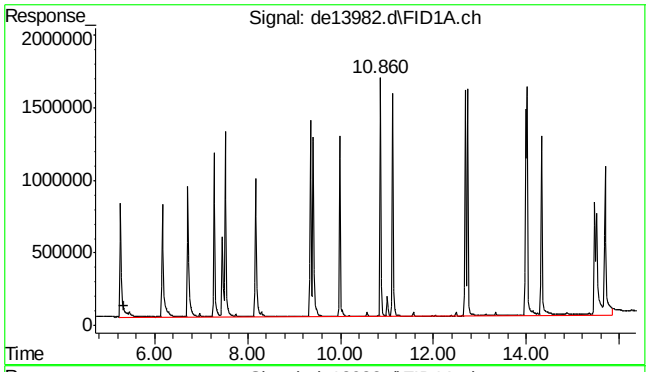
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





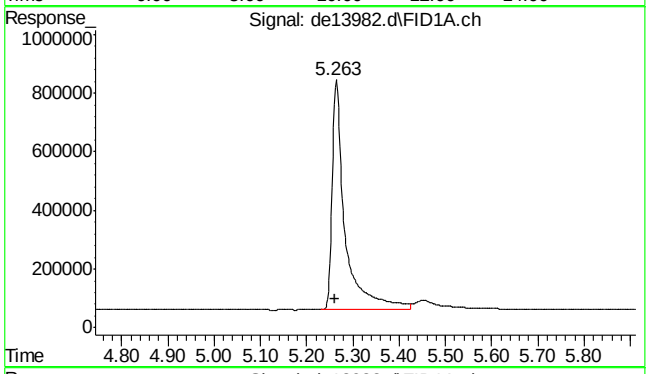
EPH160429W.M Fri Apr 29 16:46:48 2016 Page: 3

SGS ACCUTEST MC45538



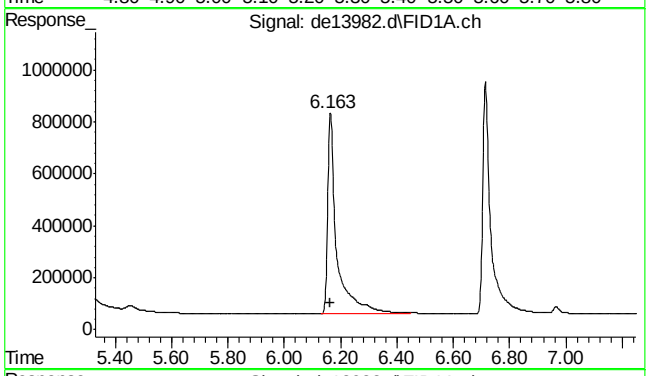
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 38543890
Conc: 392.49 µg/ml m



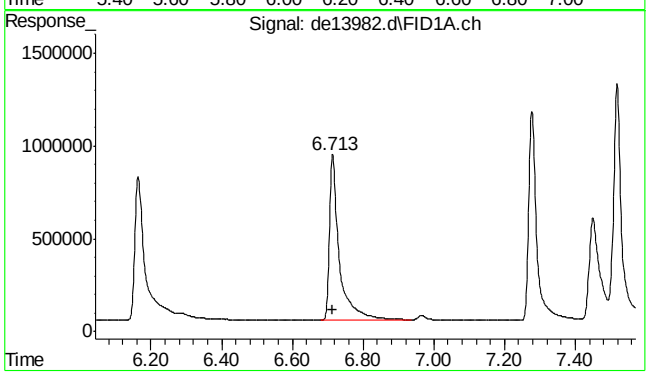
#2 naphthalene

R.T.: 5.263 min
Delta R.T.: 0.002 min
Response: 1538321
Conc: 14.91 µg/ml



#3 2-methylnaphthalene

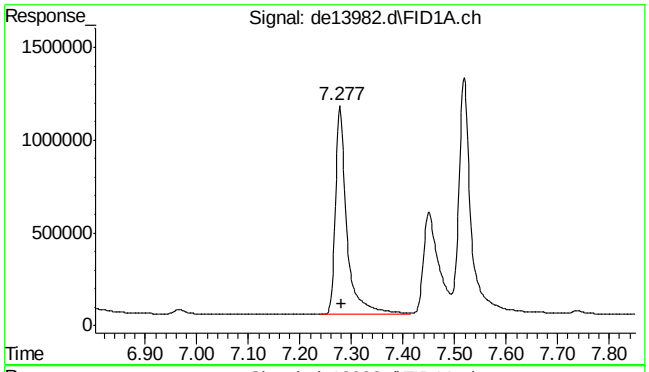
R.T.: 6.163 min
Delta R.T.: 0.000 min
Response: 1770184
Conc: 17.27 µg/ml



#4 2-fluorobiphenyl

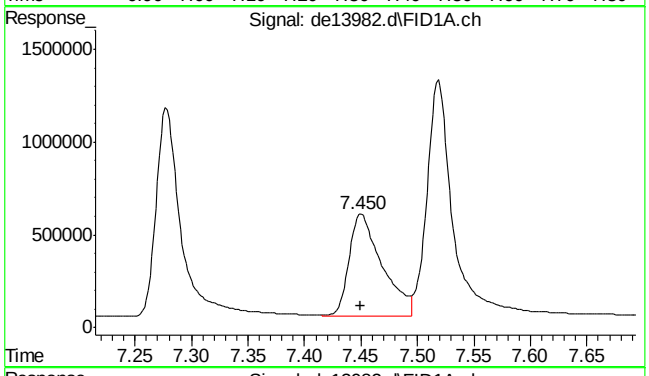
R.T.: 6.713 min
Delta R.T.: 0.000 min
Response: 1779399
Conc: 19.29 µg/ml

SGS ACCUTEST MC45538



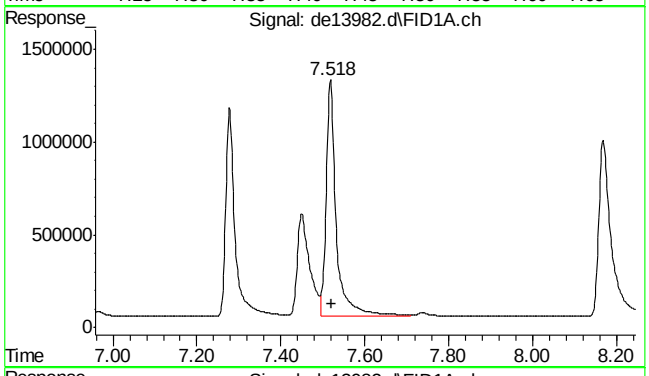
#5 acenaphthylene

R.T.: 7.277 min
Delta R.T.: -0.003 min
Response: 1750944
Conc: 17.40 µg/ml



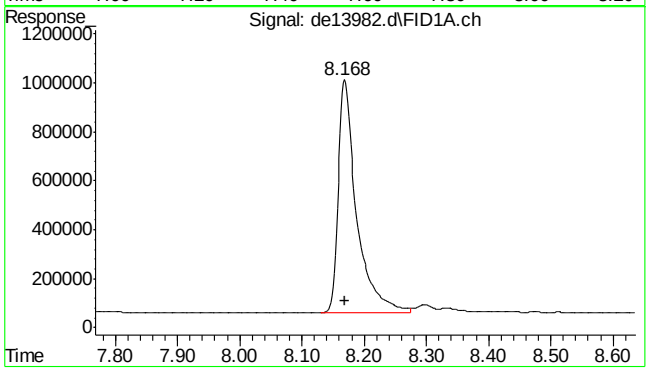
#6 2-bromonaphthalene

R.T.: 7.450 min
Delta R.T.: 0.000 min
Response: 1130270
Conc: 18.01 µg/ml



#7 acenaphthene

R.T.: 7.518 min
Delta R.T.: -0.003 min
Response: 2114685
Conc: 20.46 µg/ml



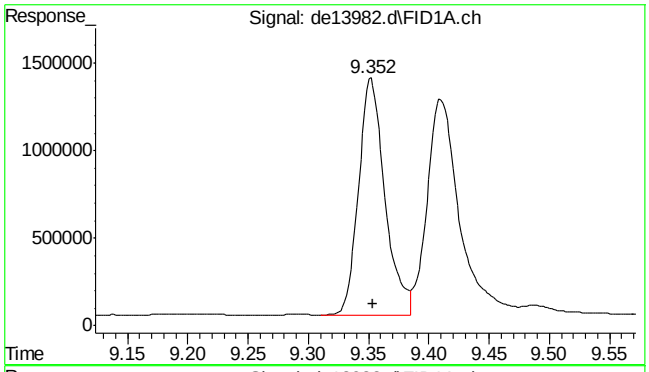
#8 fluorene

R.T.: 8.168 min
Delta R.T.: 0.000 min
Response: 1941532
Conc: 19.12 µg/ml

9.3.2

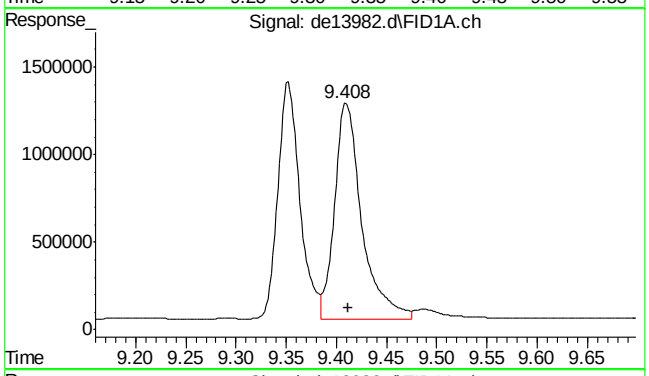
9

SGS ACCUTEST MC45538



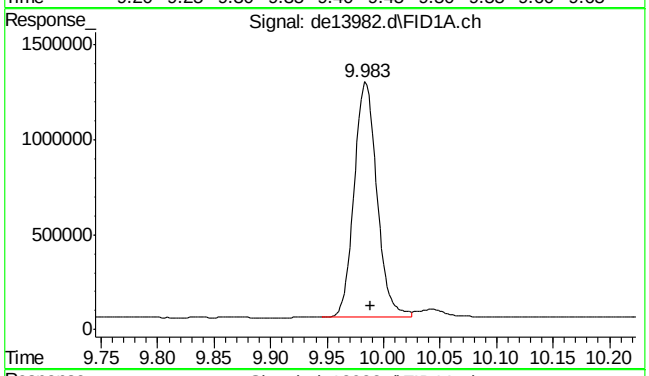
#9 phenanthrene

R.T.: 9.352 min
Delta R.T.: -0.002 min
Response: 2057602
Conc: 20.22 µg/ml



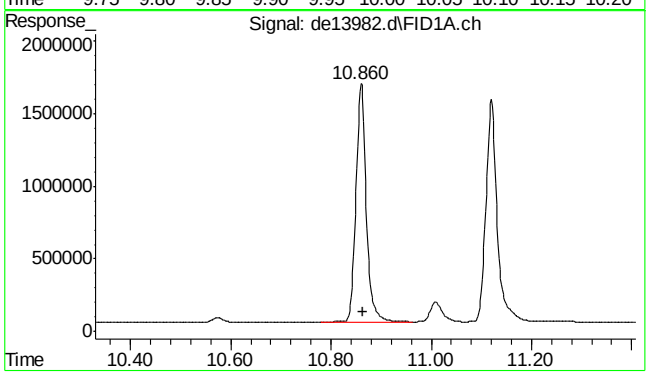
#10 anthracene

R.T.: 9.408 min
Delta R.T.: -0.003 min
Response: 2301021
Conc: 23.72 µg/ml



#11 o-terphenyl

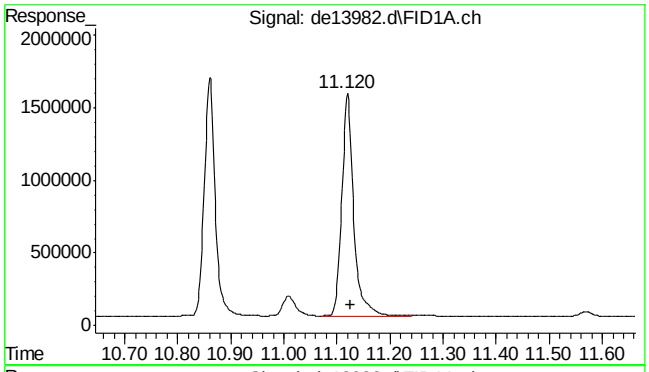
R.T.: 9.983 min
Delta R.T.: -0.005 min
Response: 1738147
Conc: 16.97 µg/ml



#12 fluoranthene

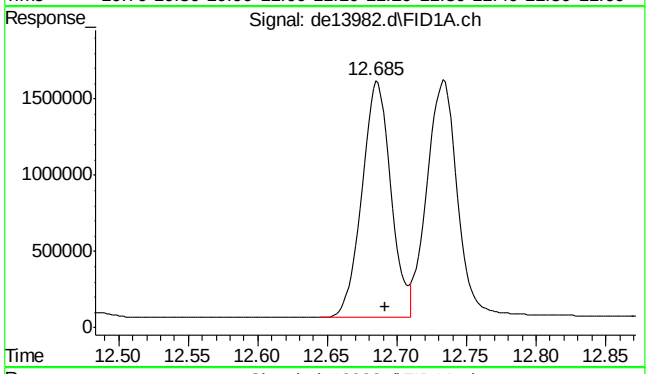
R.T.: 10.860 min
Delta R.T.: -0.003 min
Response: 2351187
Conc: 23.53 µg/ml

SGS ACCUTEST MC45538



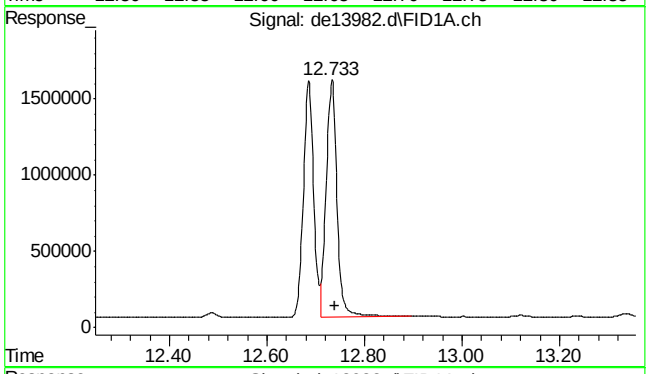
#13 pyrene

R.T.: 11.120 min
Delta R.T.: -0.005 min
Response: 2377525
Conc: 23.43 µg/ml



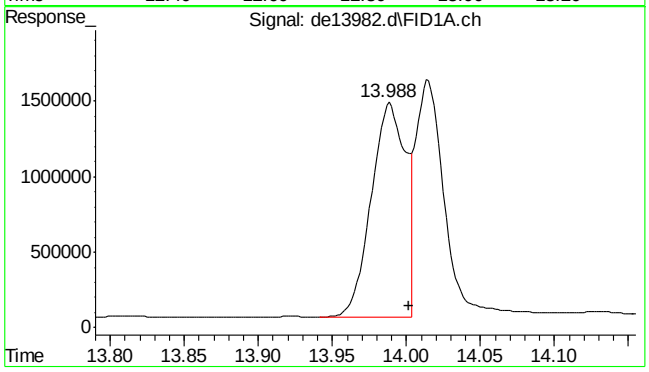
#14 benzo(a)anthracene

R.T.: 12.685 min
Delta R.T.: -0.007 min
Response: 2252371
Conc: 23.30 µg/ml



#15 chrysene

R.T.: 12.733 min
Delta R.T.: -0.005 min
Response: 2401986
Conc: 24.68 µg/ml



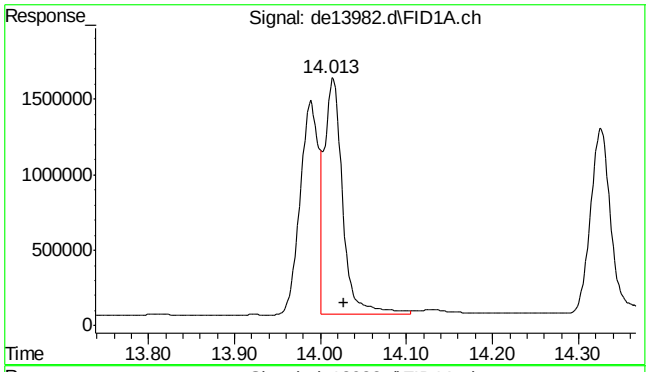
#16 benzo(B)fluoranthene

R.T.: 13.988 min
Delta R.T.: -0.013 min
Response: 2339758
Conc: 23.63 µg/ml m

9.3.2

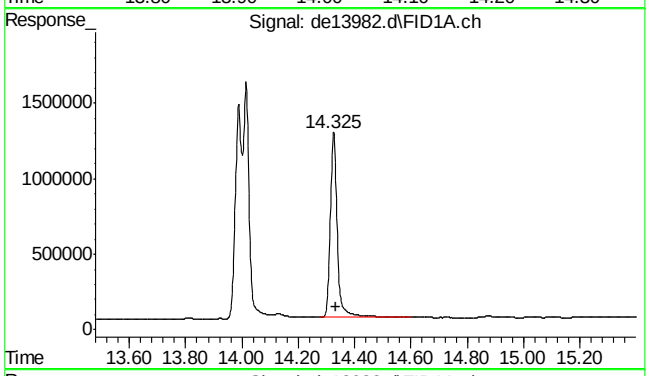
9

SGS ACCUTEST MC45538



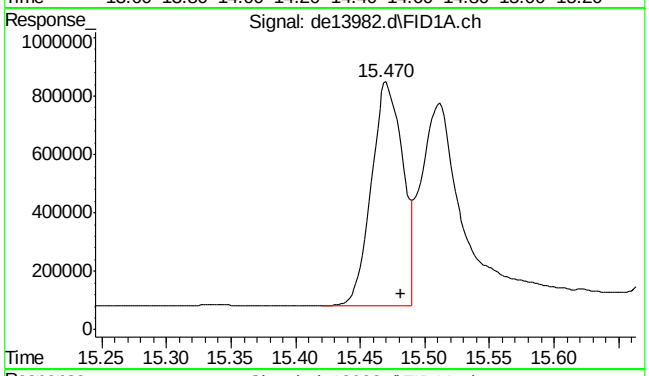
#17 benzo(k)fluoranthene

R.T.: 14.013 min
Delta R.T.: -0.013 min
Response: 2316196
Conc: 24.51 µg/ml



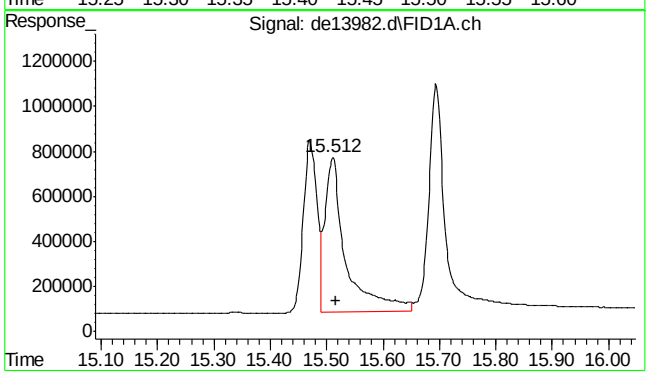
#18 benzo(a)pyrene

R.T.: 14.325 min
Delta R.T.: -0.010 min
Response: 2138150
Conc: 23.13 µg/ml



#19 indeno(1,2,3-cd)pyrene

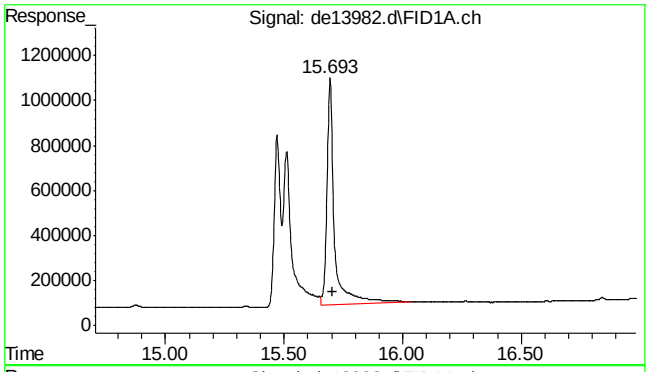
R.T.: 15.470 min
Delta R.T.: -0.012 min
Response: 1306802
Conc: 13.81 µg/ml



#20 dibenzo(ah)anthracene

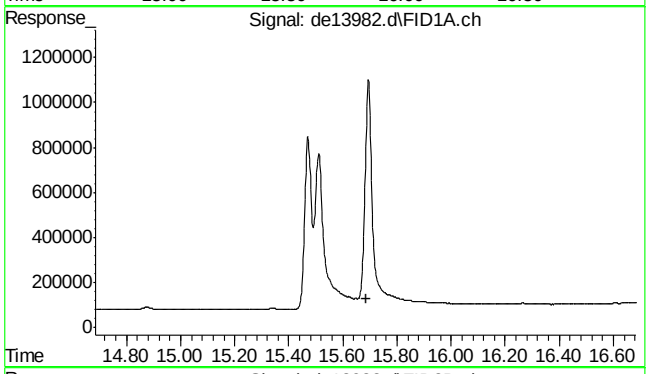
R.T.: 15.512 min
Delta R.T.: -0.005 min
Response: 1768712
Conc: 19.35 µg/ml

SGS ACCUTEST MC45538



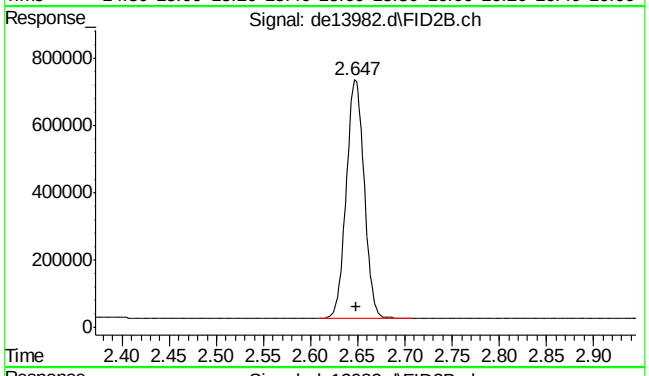
#21 benzo(ghi)perylene

R.T.: 15.693 min
Delta R.T.: -0.013 min
Response: 2195938
Conc: 23.84 µg/ml



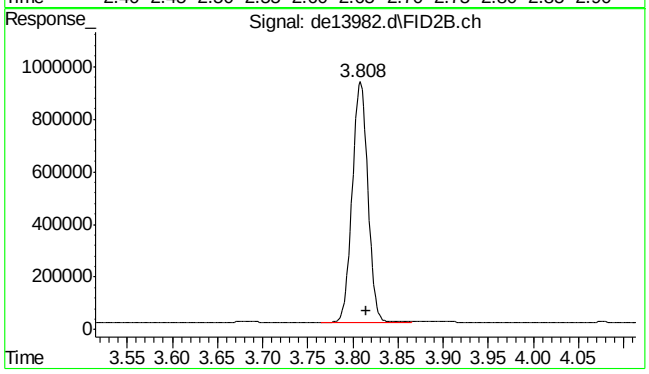
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.685 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 929488
Conc: 12.58 µg/ml m

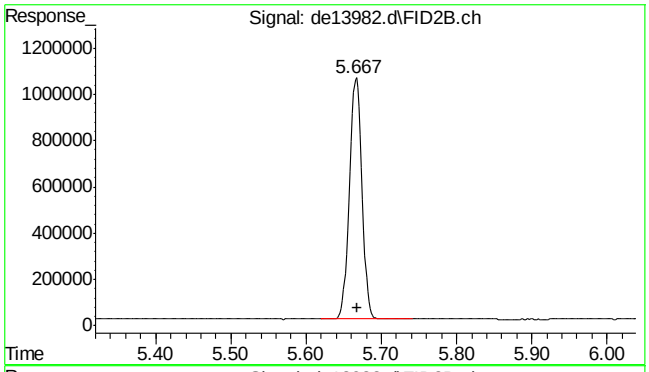


#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1106623
Conc: 14.98 µg/ml

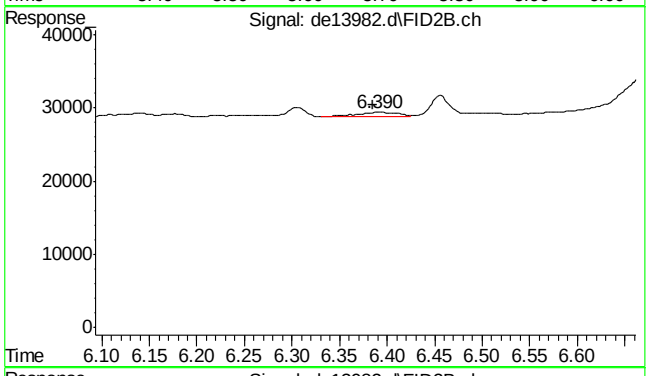
9.3.2
9

SGS ACCUTEST MC45538



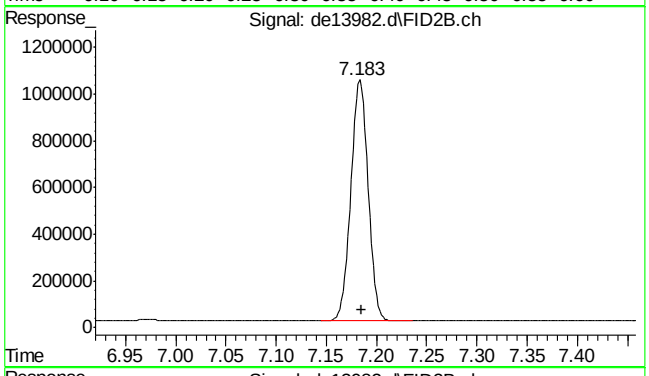
#28 c-12

R.T.: 5.667 min
Delta R.T.: -0.002 min
Response: 1206882
Conc: 16.34 µg/ml



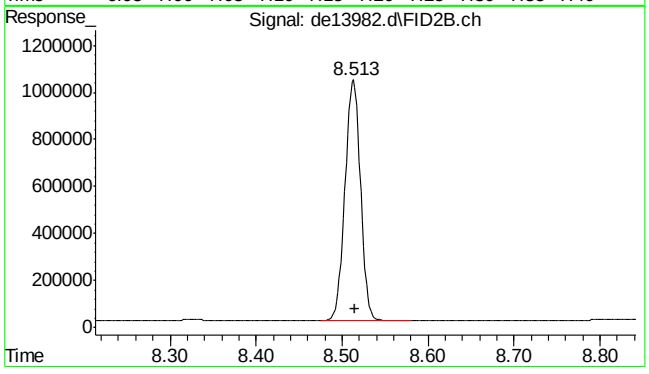
#29 2-methylnaphthalene #2

R.T.: 6.390 min
Delta R.T.: 0.005 min
Response: 1711
Conc: 0.02 µg/ml



#30 c-14

R.T.: 7.183 min
Delta R.T.: -0.002 min
Response: 1228923
Conc: 16.64 µg/ml



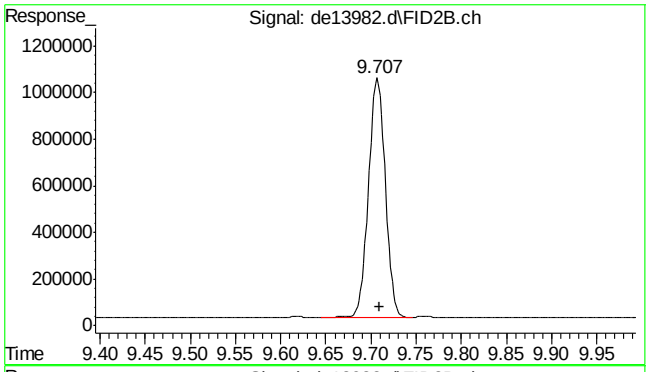
#31 c-16

R.T.: 8.513 min
Delta R.T.: -0.002 min
Response: 1268395
Conc: 17.17 µg/ml

9.3.2

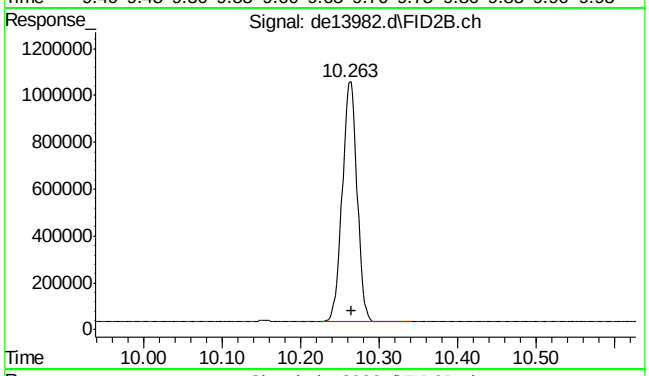
9

SGS ACCUTEST MC45538



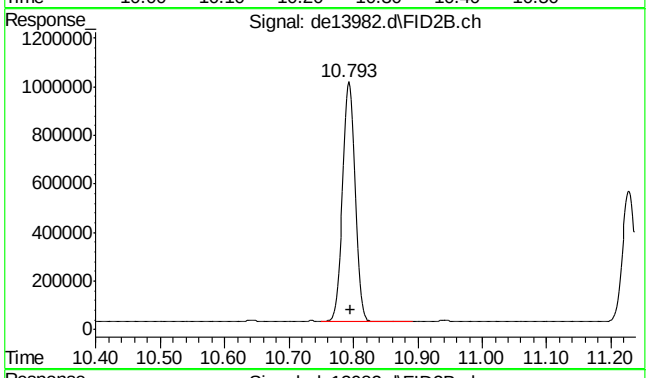
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.003 min
Response: 1344147
Conc: 18.20 µg/ml



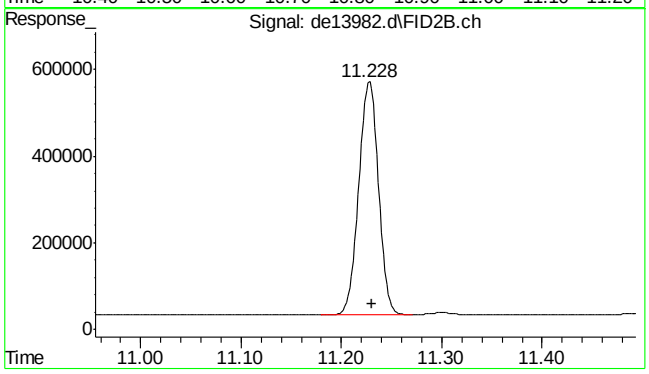
#33 c-19

R.T.: 10.263 min
Delta R.T.: -0.002 min
Response: 1341932
Conc: 20.09 µg/ml



#34 c-20

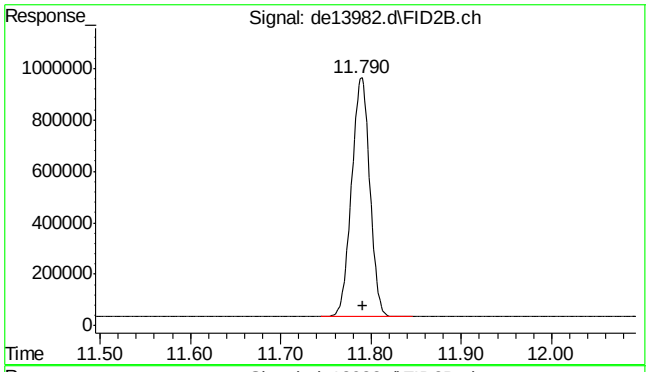
R.T.: 10.793 min
Delta R.T.: -0.002 min
Response: 1325899
Conc: 19.85 µg/ml



#35 1-chlorooctadecane

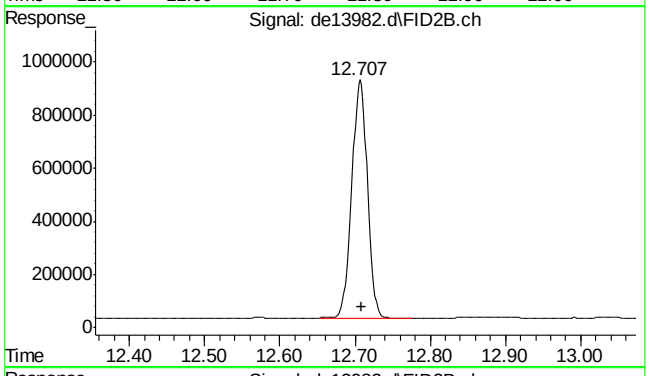
R.T.: 11.228 min
Delta R.T.: -0.002 min
Response: 730168
Conc: 12.91 µg/ml

SGS ACCUTEST MC45538



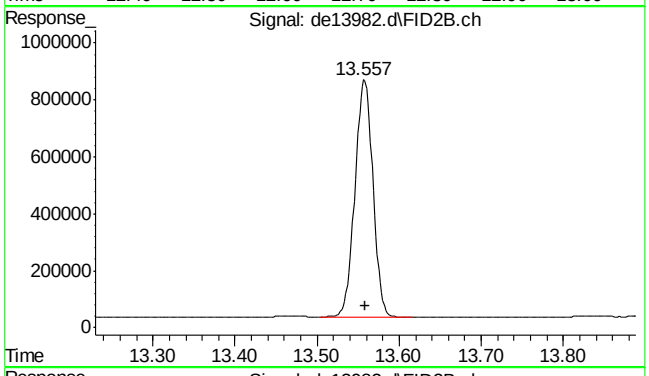
#36 c-22

R.T.: 11.790 min
Delta R.T.: -0.002 min
Response: 1309691
Conc: 19.60 µg/ml



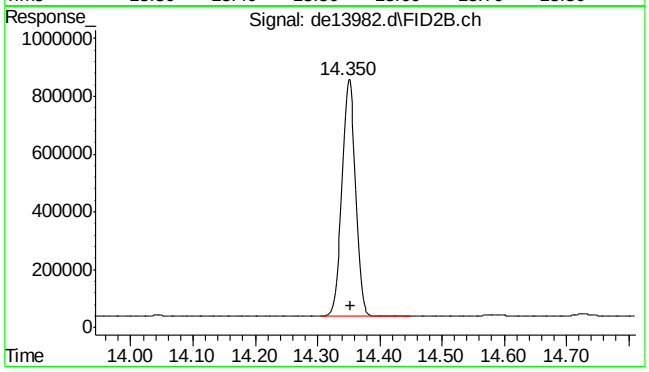
#37 c-24

R.T.: 12.707 min
Delta R.T.: -0.002 min
Response: 1288285
Conc: 19.28 µg/ml



#38 c-26

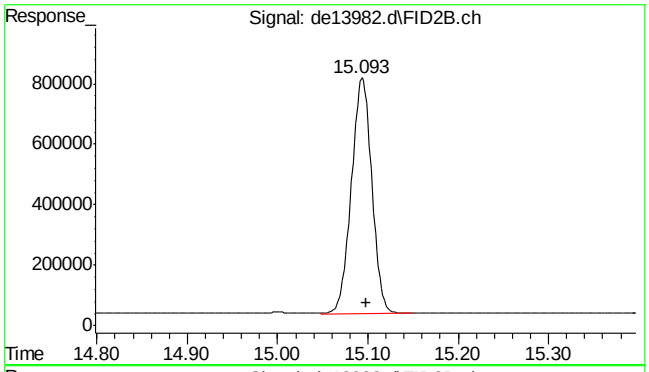
R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 1258095
Conc: 18.83 µg/ml



#39 c-28

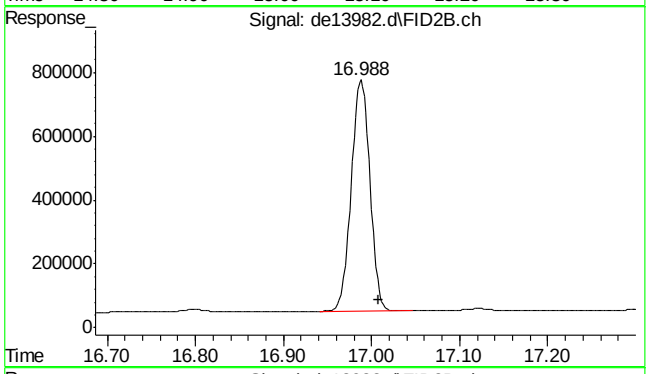
R.T.: 14.350 min
Delta R.T.: -0.003 min
Response: 1243674
Conc: 18.62 µg/ml

SGS ACCUTEST MC45538



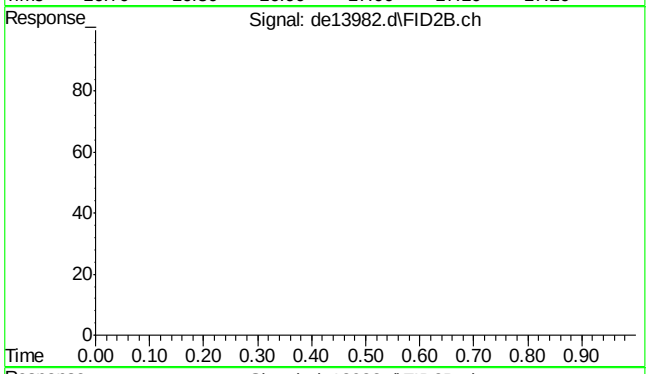
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1232434
Conc: 18.45 µg/ml



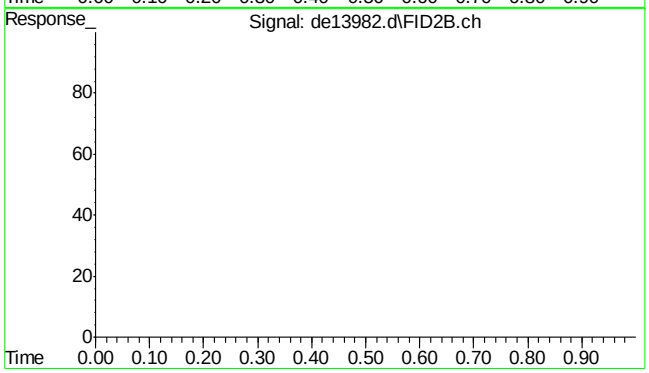
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1065519
Conc: 15.95 µg/ml m



#42 bht

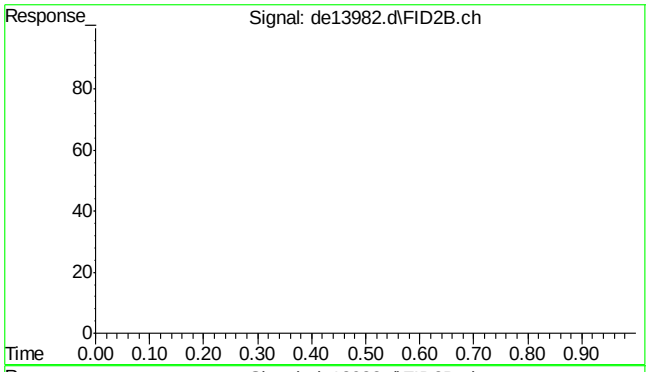
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

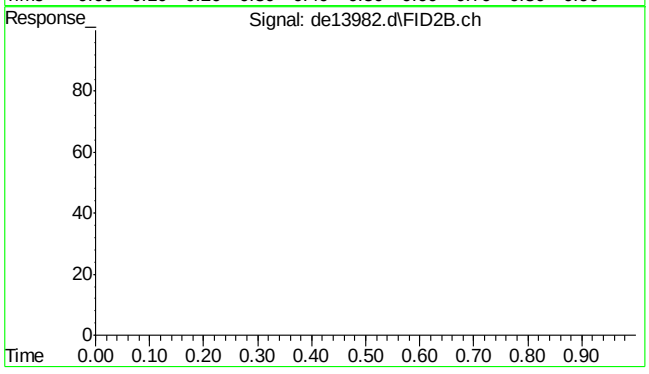
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



#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.

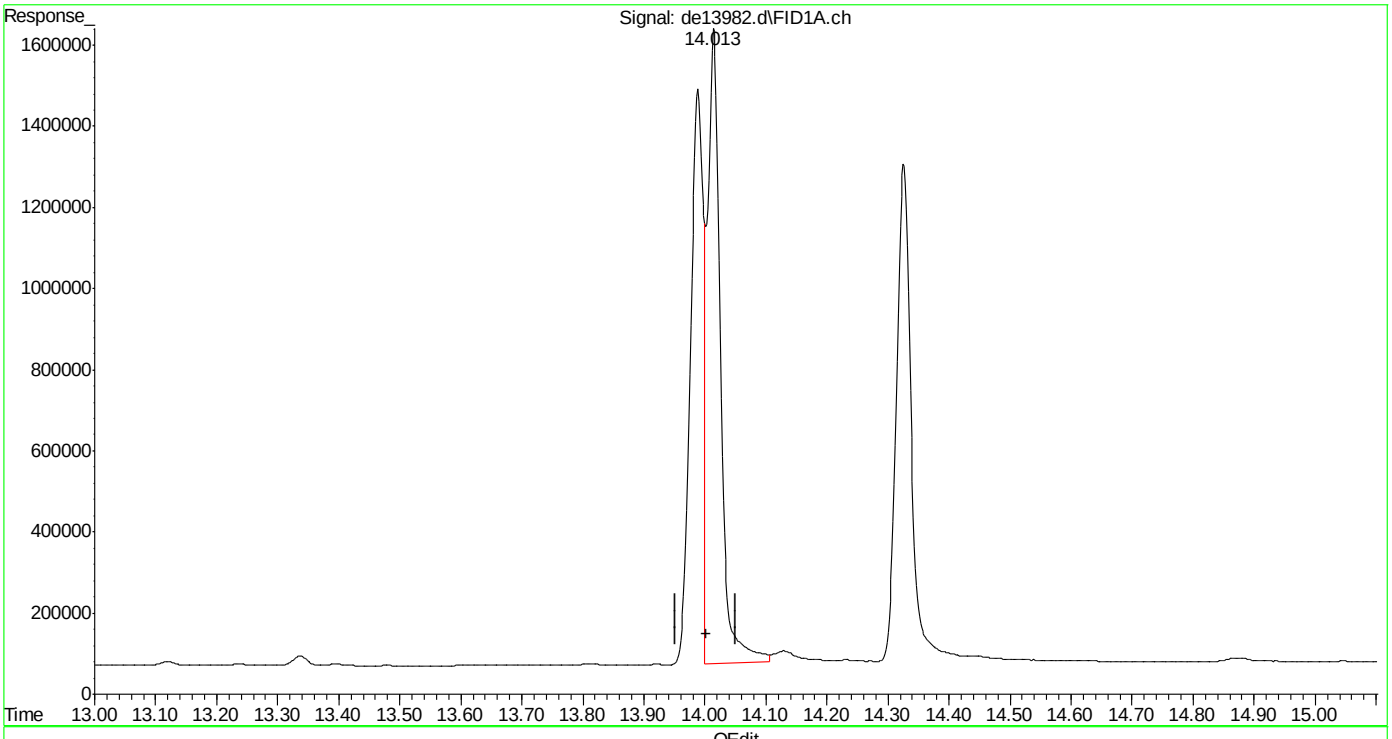
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13982.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:48 pm
Operator : thomasa
Sample : op47246-bsd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:10:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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
14.013min 23.395 µg/ml
response 2316196

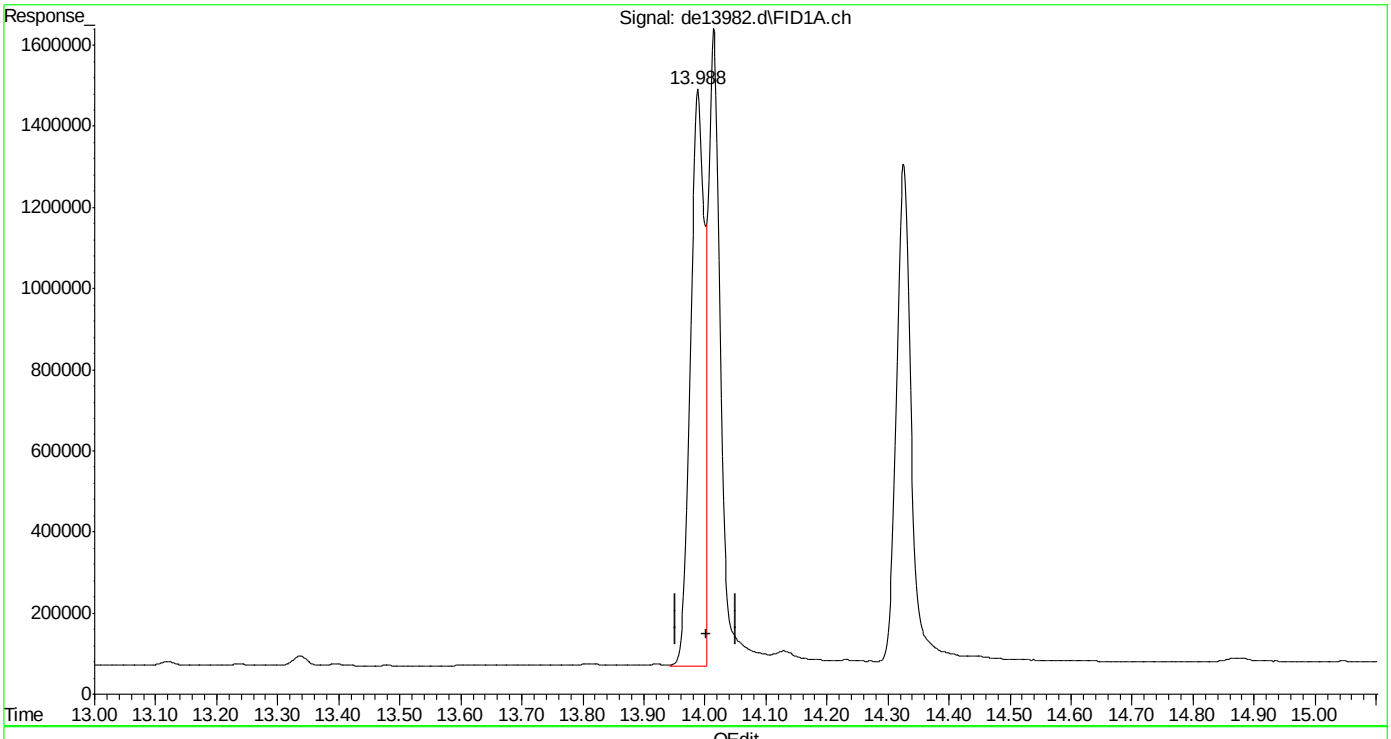
(+) = Expected Retention Time
EPH160429W.M Fri Apr 29 15:10:39 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13982.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 2:48 pm
Operator : thomasa
Sample : op47246-bsd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 15:10:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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
13.988min 23.633 µg/ml m
response 2339758

(+) = Expected Retention Time
EPH160429W.M Fri Apr 29 15:10:53 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14014.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 9:46 am
Operator : thomasa
Sample : op47259-bs
Misc : op47259,gde784,11.92,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:37:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	6.695	1590143	17.241 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	86.20%#
6) s 2-bromonaphthalene	7.428	992851	15.821 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	79.11%#
11) s o-terphenyl	9.965	1876552	18.321 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	91.61%#
35) s 1-chlorooctadecane	11.227	1067465	18.868 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	94.34%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	43396348	441.897 µg/mlm
2) naphthalene	5.247	1706300	16.544 µg/ml
3) 2-methylnaphthalene	6.145	1783746	17.405 µg/ml
5) acenaphthylene	7.258	1881720	18.705 µg/ml
7) acenaphthene	7.500	2015826	19.500 µg/ml
8) fluorene	8.147	2000371	19.695 µg/ml
9) phenanthrene	9.330	2089792	20.536 µg/ml
10) anthracene	9.387	2404562	24.787 µg/ml
12) fluoranthene	10.838	2316261	23.176 µg/ml
13) pyrene	11.097	2328273	22.947 µg/ml
14) benzo(a)anthracene	12.662	2352406	24.333 µg/ml
15) chrysene	12.710	2319290	23.826 µg/ml
16) benzo(B)fluoranthene	13.963	2410626	24.349 µg/ml
17) benzo(k)fluoranthene	13.990	2342603	24.789 µg/ml
18) benzo(a)pyrene	14.298	2301735	24.901 µg/ml
19) indeno(1,2,3-cd)pyrene	15.442	2349224	24.818 µg/ml
20) dibenzo(ah)anthracene	15.482	2293873	25.097 µg/ml
21) benzo(ghi)perylene	15.665	2348983	25.498 µg/ml
25) h c-9	2.648	1137544	15.399 µg/mlm
26) h c-10	3.815	1310646	17.742 µg/ml
27) naphthalene #2	5.490	5047	0.063 µg/ml
28) c-12	5.665	1402075	18.980 µg/ml
29) 2-methylnaphthalene #2	6.383	5061	0.063 µg/ml
30) c-14	7.182	1457221	19.726 µg/ml
31) c-16	8.512	1537136	20.808 µg/ml
32) c-18	9.707	1657471	22.437 µg/ml
33) c-19	10.262	1662896	24.891 µg/ml
34) c-20	10.793	1687726	25.263 µg/ml
36) c-22	11.787	1722066	25.777 µg/ml
37) c-24	12.705	1713875	25.654 µg/ml

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14014.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 9:46 am
Operator : thomasa
Sample : op47259-bs
Misc : op47259,gde784,11.92,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:37:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	13.557	1684593	25.216	µg/ml
39)		c-28	14.348	1674682	25.068	µg/ml
40)	h	c-30	15.098	1683486	25.199	µg/ml
41)	h	c-36	17.008	1488678	22.283	µg/mlm

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

9.3.3

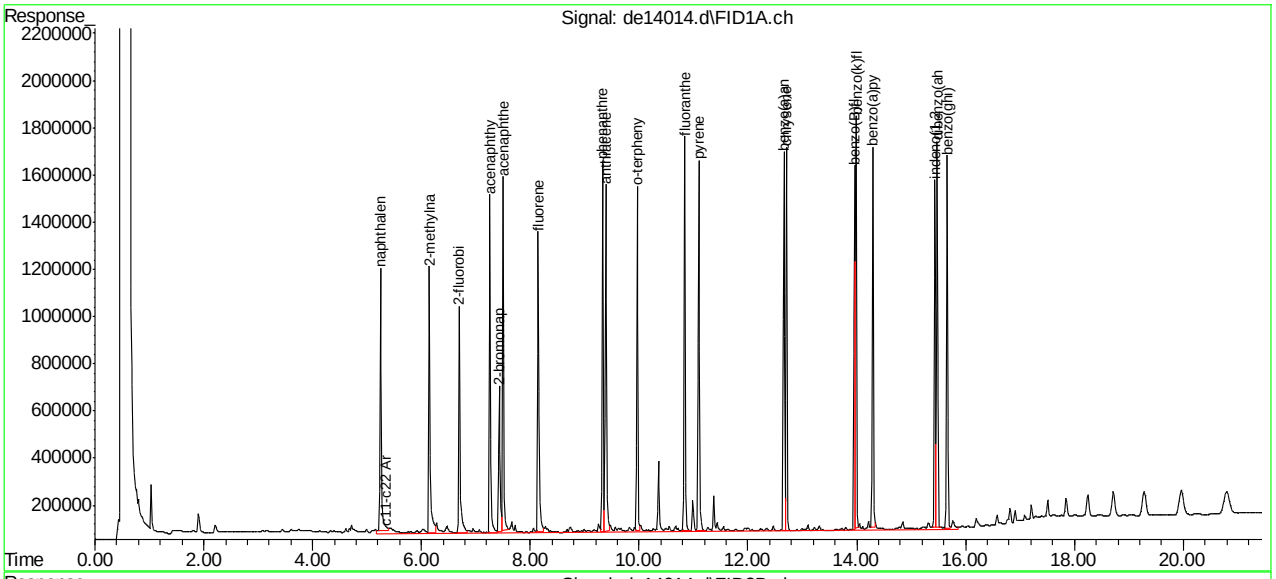
9

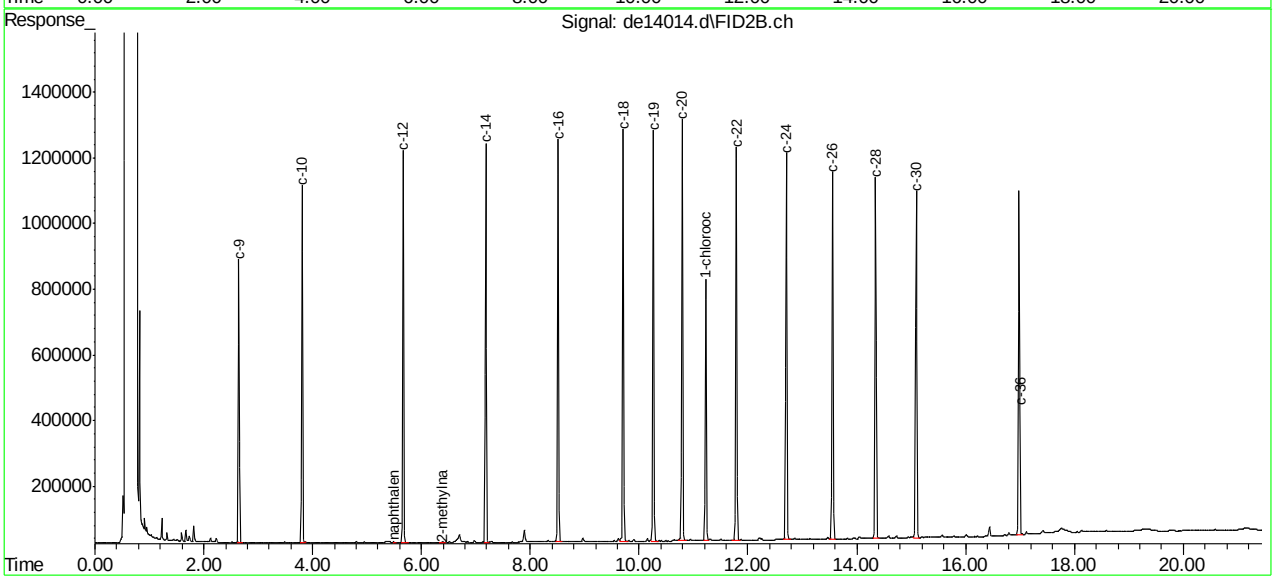
Quantitation Report (QT Reviewed)

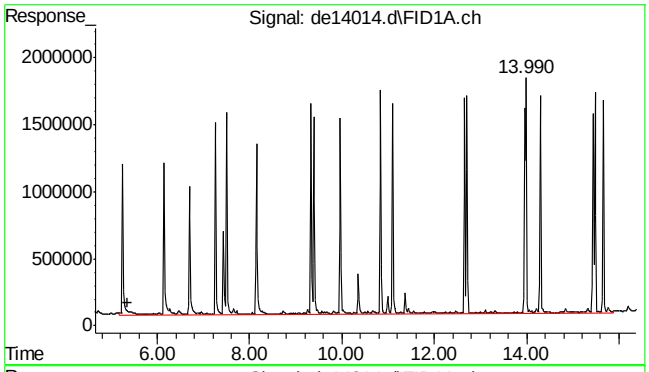
Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14014.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 9:46 am
Operator : thomasa
Sample : op47259-bs
Misc : op47259,gde784,11.92,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:37:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 2016
Response via : Initial Calibration
Integrator: RTE

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

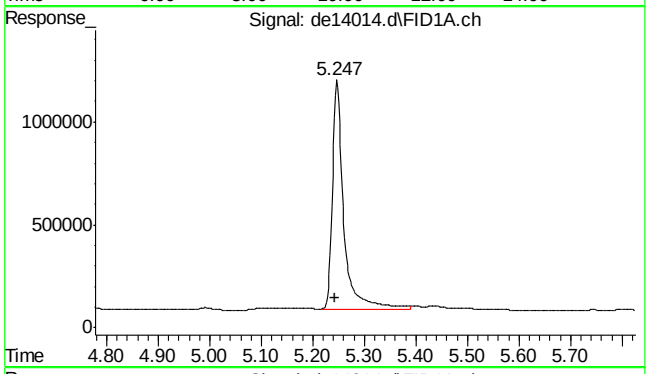






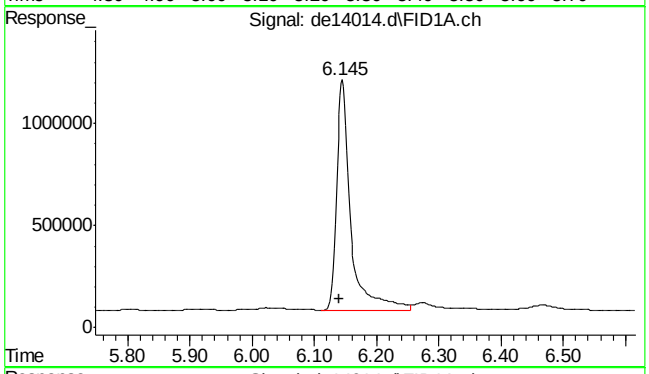
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 43396348
Conc: 441.90 µg/ml m



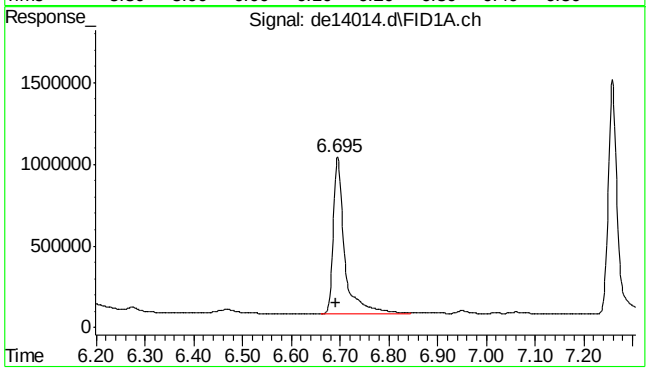
#2 naphthalene

R.T.: 5.247 min
Delta R.T.: 0.005 min
Response: 1706300
Conc: 16.54 µg/ml



#3 2-methylnaphthalene

R.T.: 6.145 min
Delta R.T.: 0.005 min
Response: 1783746
Conc: 17.41 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.695 min
Delta R.T.: 0.003 min
Response: 1590143
Conc: 17.24 µg/ml

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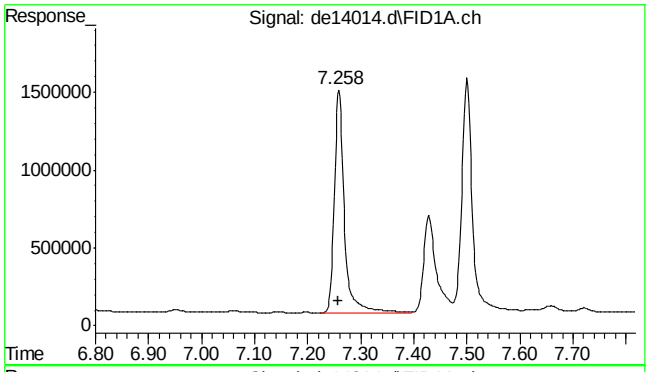
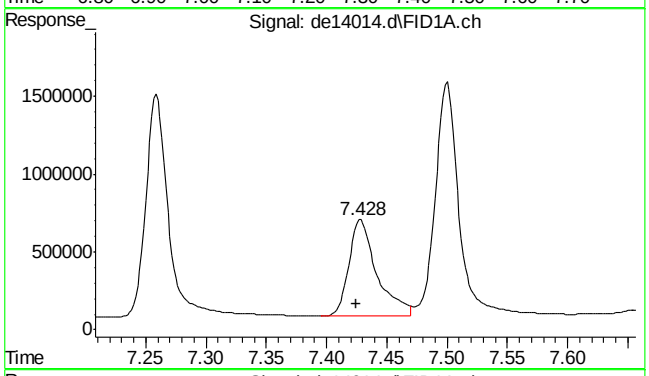


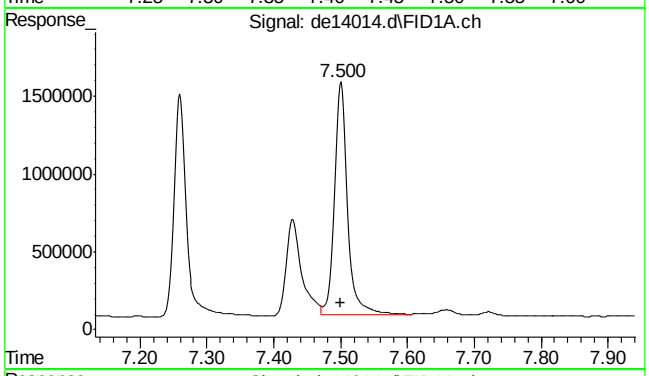
#5 acenaphthylene

R.T.: 7.258 min
Delta R.T.: 0.002 min
Response: 1881720
Conc: 18.70 µg/ml



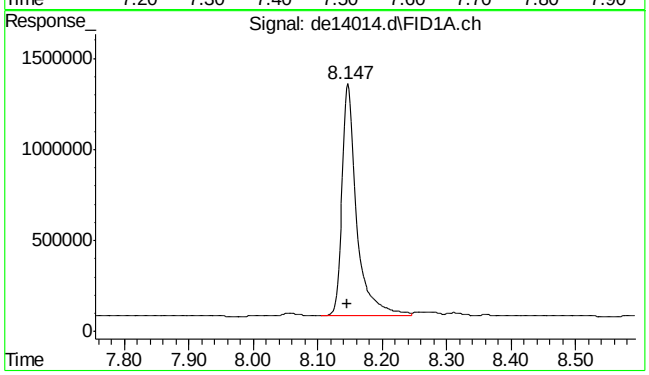
#6 2-bromonaphthalene

R.T.: 7.428 min
Delta R.T.: 0.003 min
Response: 992851
Conc: 15.82 µg/ml



#7 acenaphthene

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 2015826
Conc: 19.50 µg/ml



#8 fluorene

R.T.: 8.147 min
Delta R.T.: 0.002 min
Response: 2000371
Conc: 19.69 µg/ml

9.3.3

9

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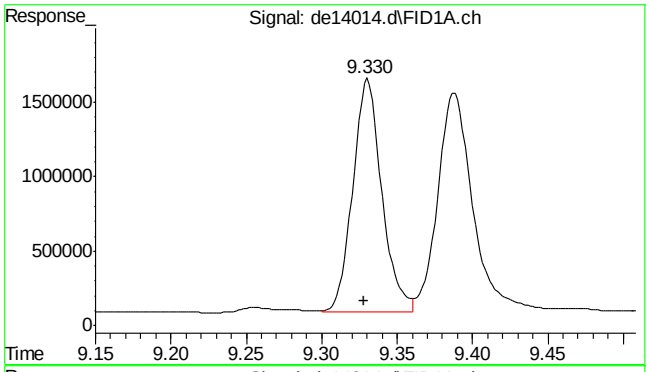
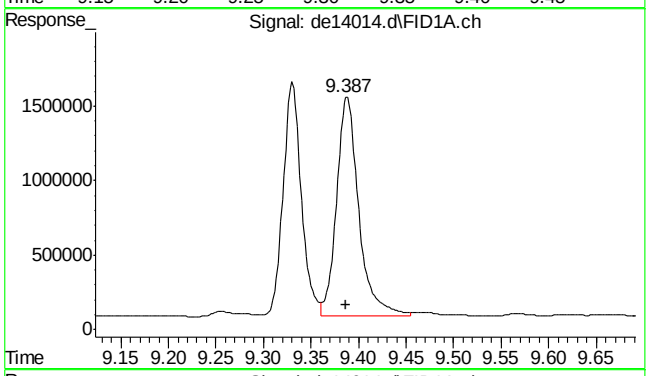


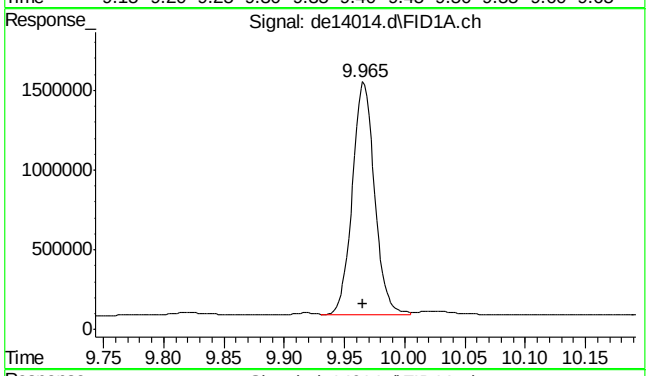
#9 phenanthrene

R.T.: 9.330 min
Delta R.T.: 0.002 min
Response: 2089792
Conc: 20.54 µg/ml



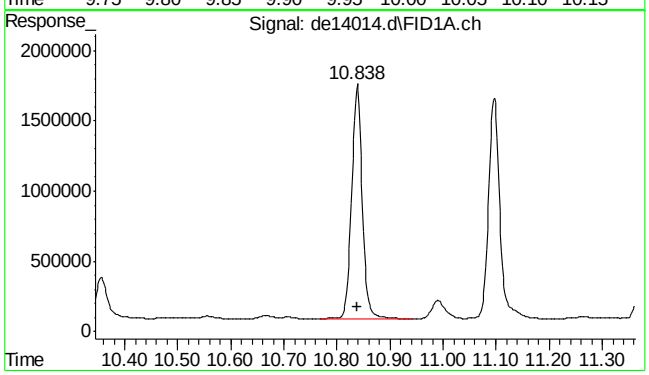
#10 anthracene

R.T.: 9.387 min
Delta R.T.: 0.000 min
Response: 2404562
Conc: 24.79 µg/ml



#11 o-terphenyl

R.T.: 9.965 min
Delta R.T.: 0.000 min
Response: 1876552
Conc: 18.32 µg/ml



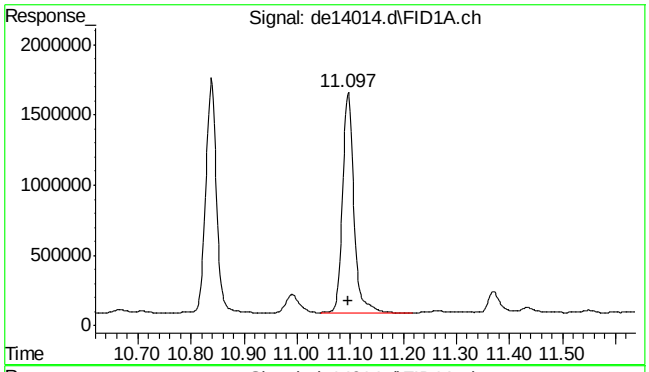
#12 fluoranthene

R.T.: 10.838 min
Delta R.T.: 0.000 min
Response: 2316261
Conc: 23.18 µg/ml

9.3.3

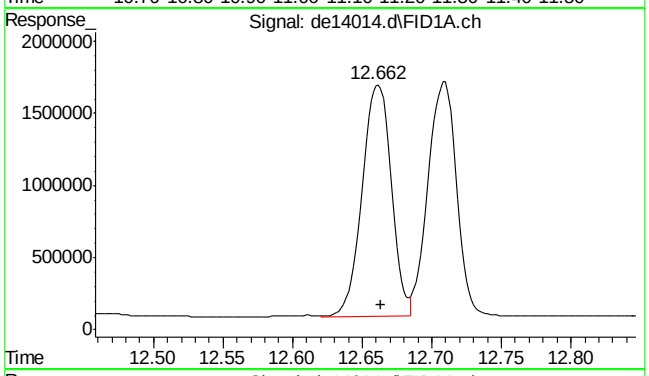
9

SGS ACCUTEST MC45538



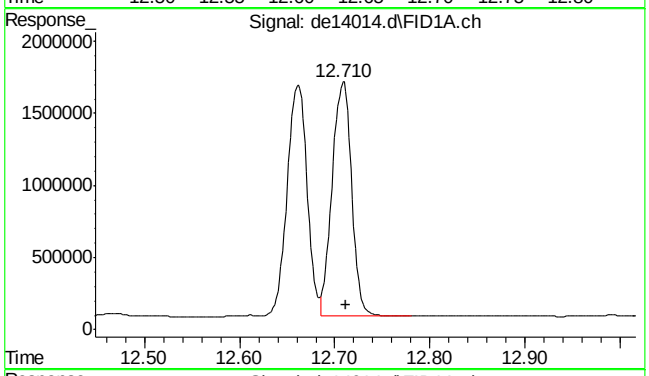
#13 pyrene

R.T.: 11.097 min
Delta R.T.: 0.000 min
Response: 2328273
Conc: 22.95 µg/ml



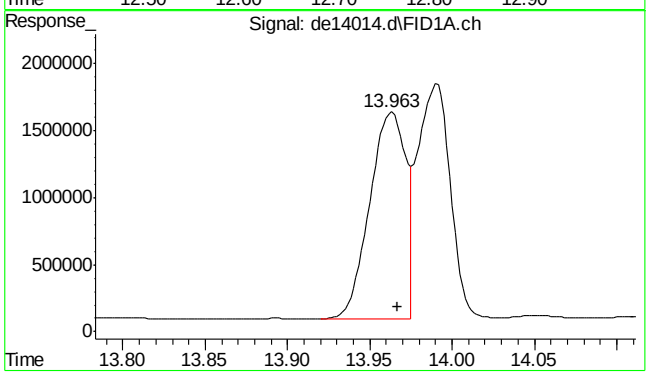
#14 benzo(a)anthracene

R.T.: 12.662 min
Delta R.T.: -0.002 min
Response: 2352406
Conc: 24.33 µg/ml



#15 chrysene

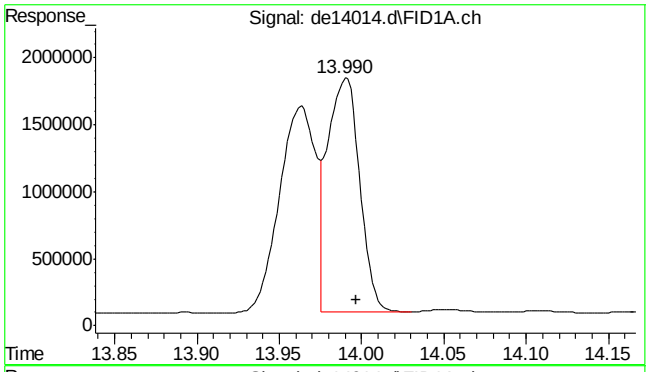
R.T.: 12.710 min
Delta R.T.: -0.002 min
Response: 2319290
Conc: 23.83 µg/ml



#16 benzo(B)fluoranthene

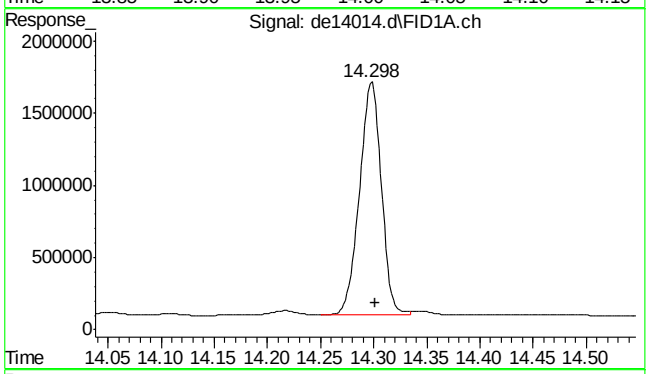
R.T.: 13.963 min
Delta R.T.: -0.003 min
Response: 2410626
Conc: 24.35 µg/ml

SGS ACCUTEST MC45538



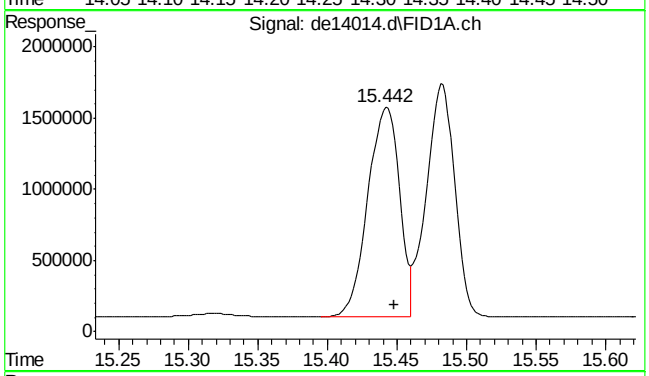
#17 benzo(k)fluoranthene

R.T.: 13.990 min
Delta R.T.: -0.007 min
Response: 2342603
Conc: 24.79 µg/ml



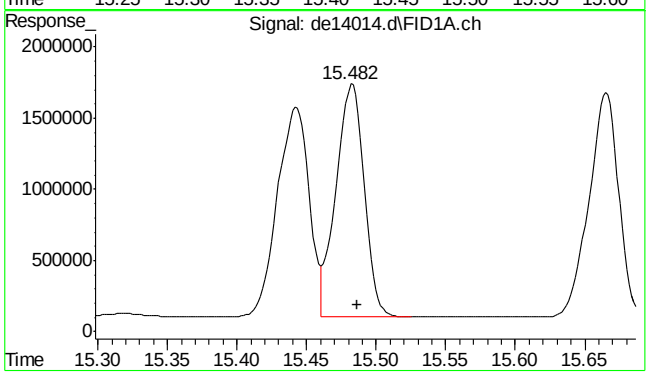
#18 benzo(a)pyrene

R.T.: 14.298 min
Delta R.T.: -0.003 min
Response: 2301735
Conc: 24.90 µg/ml



#19 indeno(1,2,3-cd)pyrene

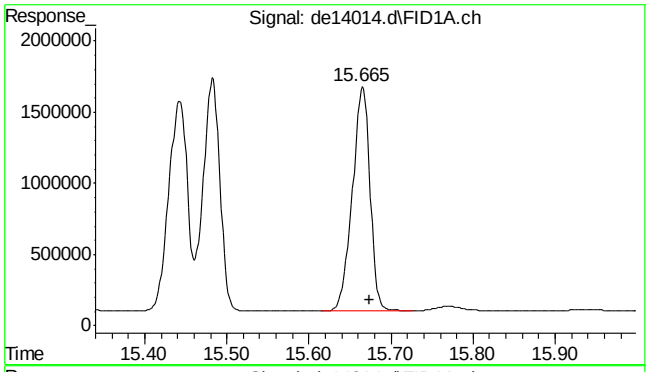
R.T.: 15.442 min
Delta R.T.: -0.007 min
Response: 2349224
Conc: 24.82 µg/ml



#20 dibenzo(ah)anthracene

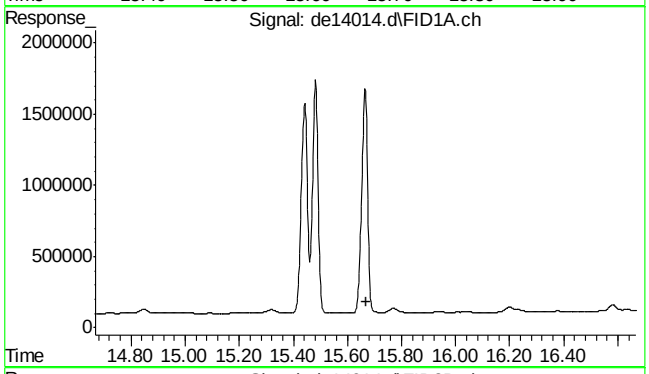
R.T.: 15.482 min
Delta R.T.: -0.005 min
Response: 2293873
Conc: 25.10 µg/ml

SGS ACCUTEST MC45538



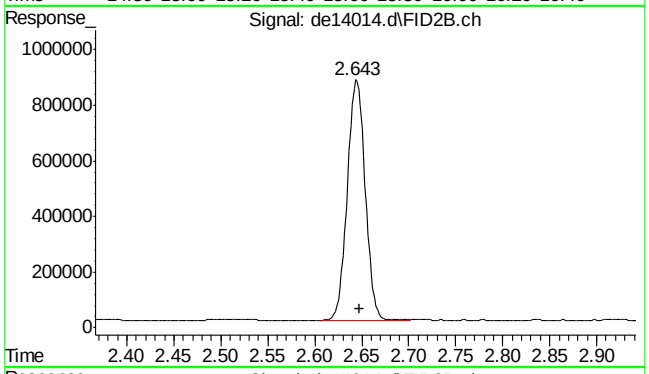
#21 benzo(ghi)perylene

R.T.: 15.665 min
Delta R.T.: -0.008 min
Response: 2348983
Conc: 25.50 µg/ml



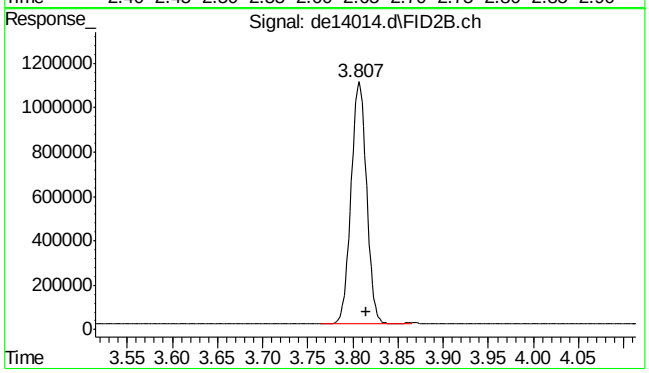
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1137544
Conc: 15.40 µg/ml m



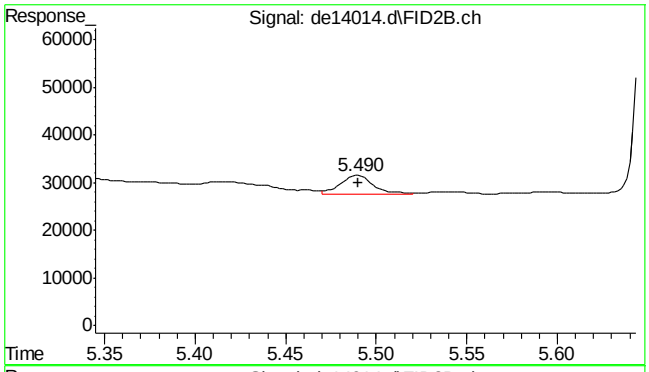
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1310646
Conc: 17.74 µg/ml

9.3.3

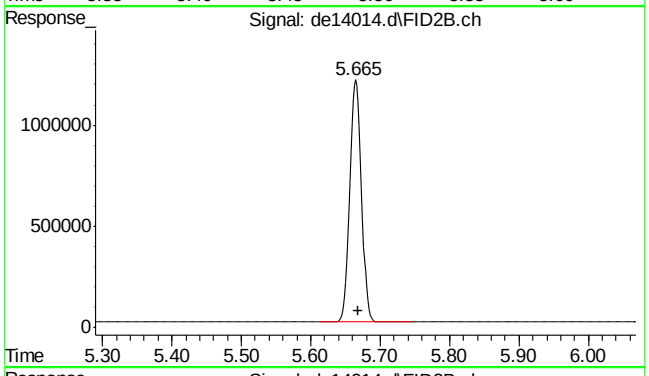
9

SGS ACCUTEST MC45538



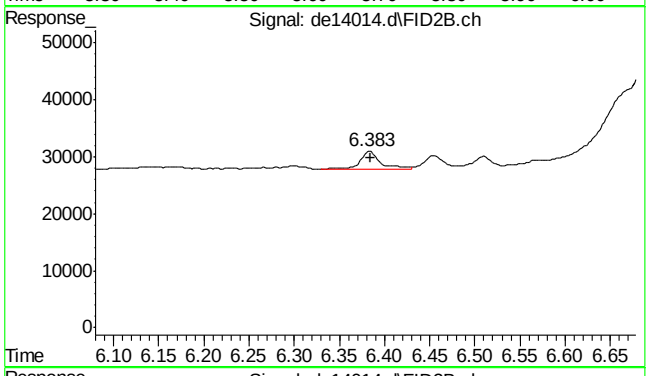
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: 0.000 min
Response: 5047
Conc: 0.06 µg/ml



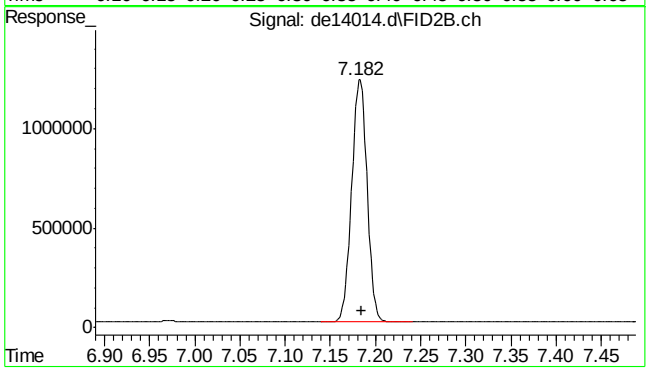
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.003 min
Response: 1402075
Conc: 18.98 µg/ml



#29 2-methylnaphthalene #2

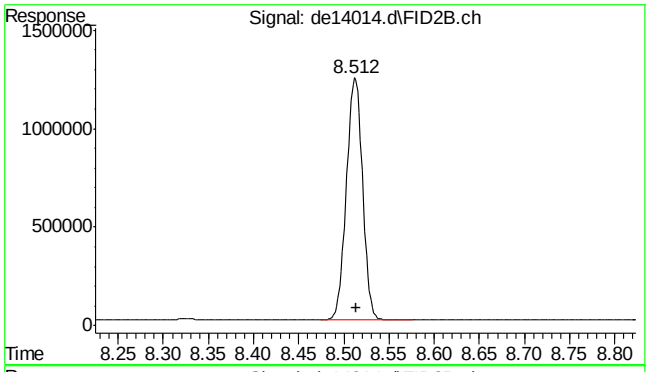
R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 5061
Conc: 0.06 µg/ml



#30 c-14

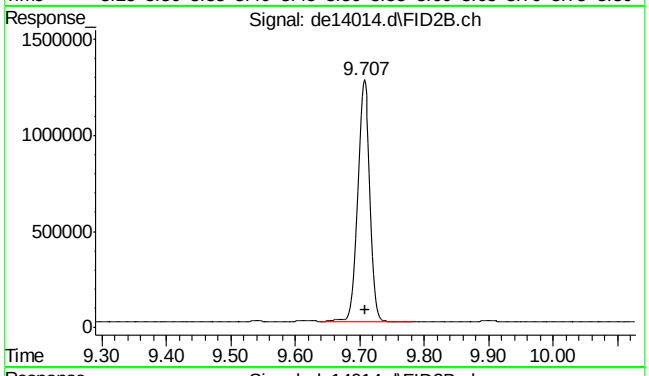
R.T.: 7.182 min
Delta R.T.: -0.003 min
Response: 1457221
Conc: 19.73 µg/ml

SGS ACCUTEST MC45538



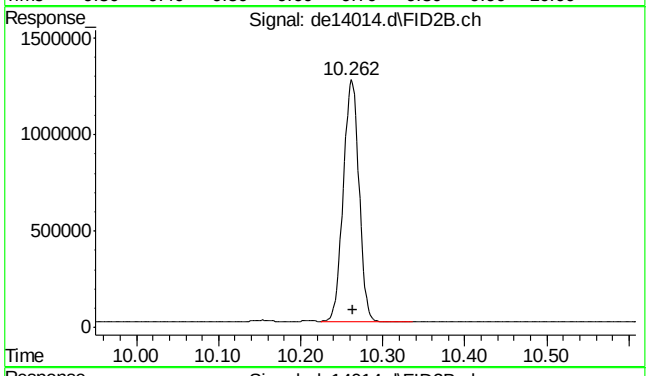
#31 c-16

R.T.: 8.512 min
Delta R.T.: -0.002 min
Response: 1537136
Conc: 20.81 µg/ml



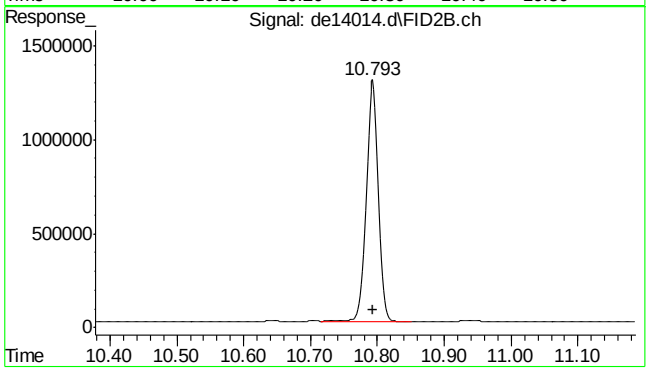
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 1657471
Conc: 22.44 µg/ml



#33 c-19

R.T.: 10.262 min
Delta R.T.: -0.002 min
Response: 1662896
Conc: 24.89 µg/ml



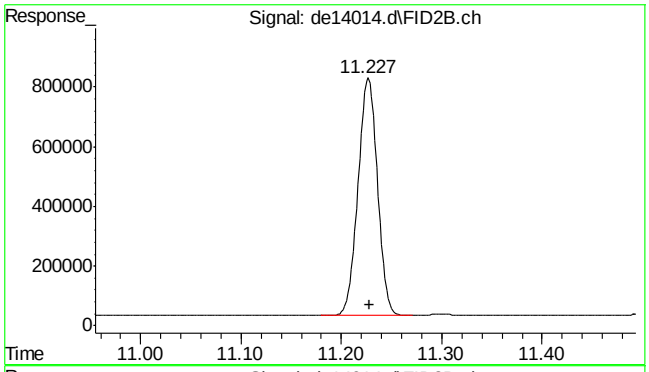
#34 c-20

R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 1687726
Conc: 25.26 µg/ml

9.3.3

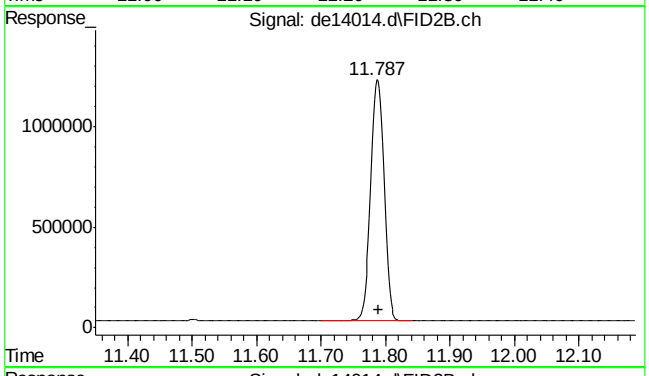
9

SGS ACCUTEST MC45538



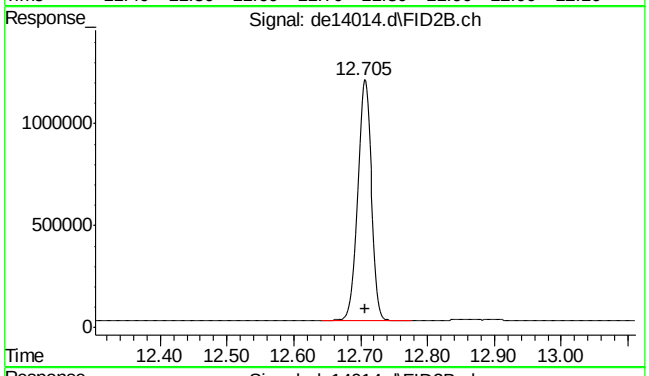
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 1067465
Conc: 18.87 µg/ml



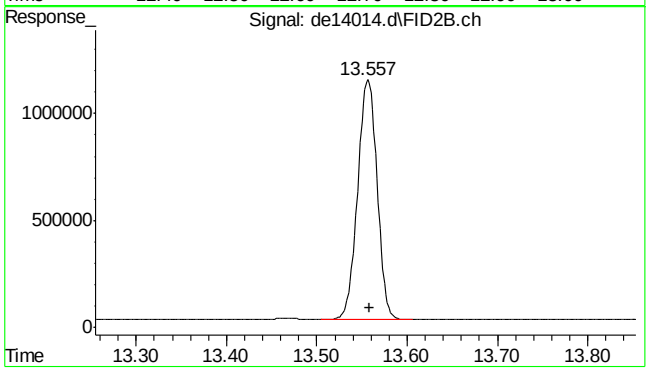
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.003 min
Response: 1722066
Conc: 25.78 µg/ml



#37 c-24

R.T.: 12.705 min
Delta R.T.: -0.002 min
Response: 1713875
Conc: 25.65 µg/ml



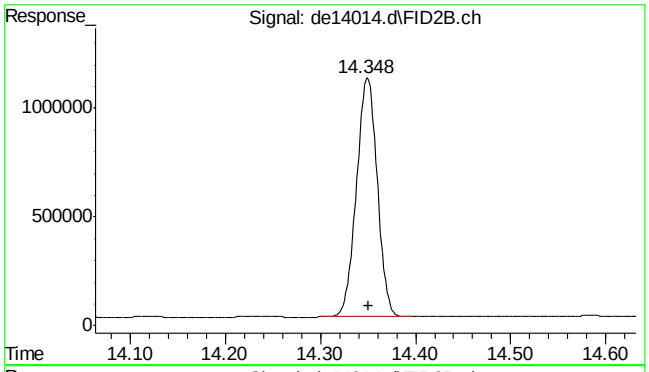
#38 c-26

R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 1684593
Conc: 25.22 µg/ml

9.3.3

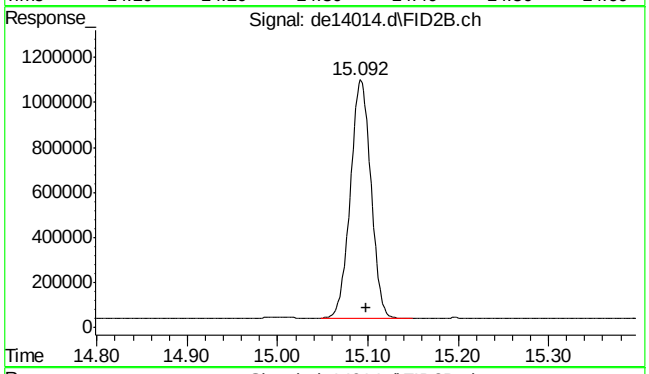
9

SGS ACCUTEST MC45538



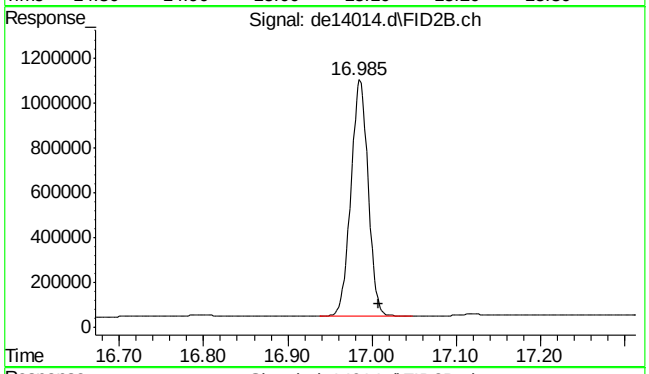
#39 c-28

R.T.: 14.348 min
Delta R.T.: -0.002 min
Response: 1674682
Conc: 25.07 µg/ml



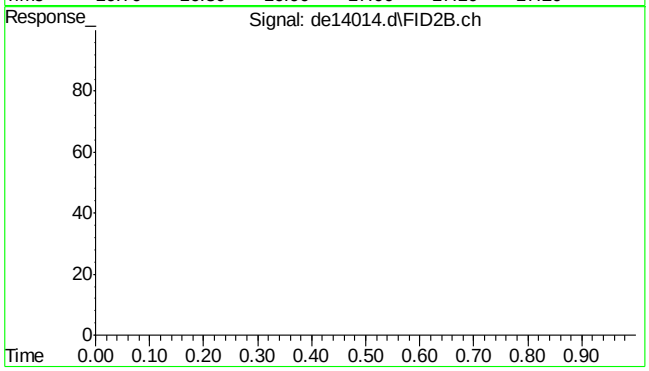
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1683486
Conc: 25.20 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1488678
Conc: 22.28 µg/ml m



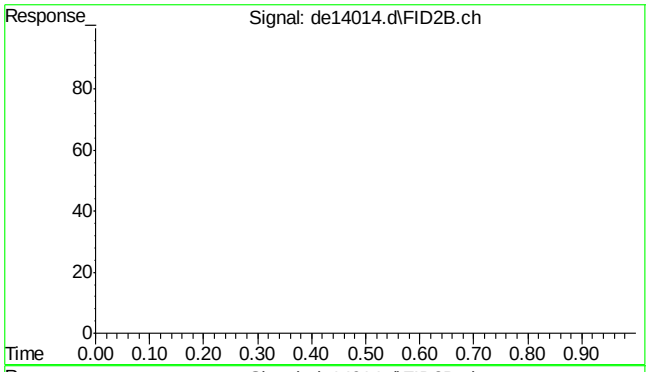
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.3

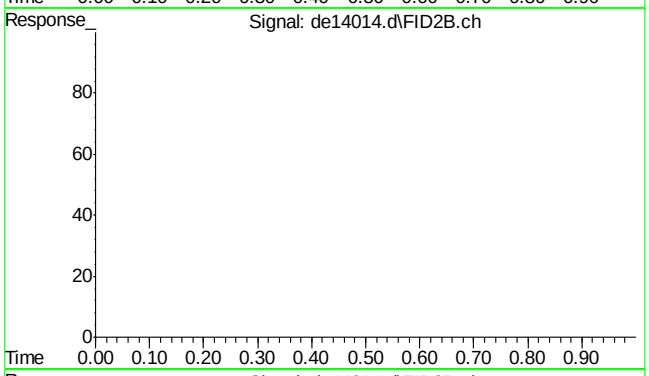
9

SGS ACCUTEST MC45538



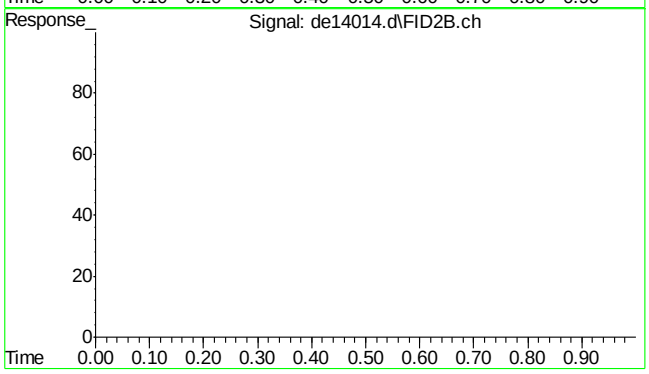
#43 bht

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.

9.3.3

9

SGS ACCUTEST MC45538

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/04/16 14:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:40:47 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	6.693	1899866	20.599 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 102.99%#	
6) s 2-bromonaphthalene	7.427	1210800	19.294 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 96.47%#	
11) s o-terphenyl	9.965	2125695	20.753 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 103.77%#	
35) s 1-chlorooctadecane	11.227	770098	13.612 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 68.06%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	43878119	446.803 µg/mlm
2) naphthalene	5.243	2170813	21.047 µg/ml
3) 2-methylnaphthalene	6.143	2171456	21.189 µg/ml
5) acenaphthylene	7.258	2173550	21.606 µg/ml
7) acenaphthene	7.498	2444963	23.651 µg/ml
8) fluorene	8.147	2266837	22.319 µg/ml
9) phenanthrene	9.330	2265236	22.260 µg/ml
10) anthracene	9.387	2501344	25.785 µg/ml
12) fluoranthene	10.837	2419392	24.208 µg/ml
13) pyrene	11.097	2451525	24.162 µg/ml
14) benzo(a)anthracene	12.660	2371270	24.528 µg/ml
15) chrysene	12.708	2406971	24.727 µg/ml
16) benzo(B)fluoranthene	13.962	2426748	24.512 µg/mlm
17) benzo(k)fluoranthene	13.990	2331385	24.670 µg/mlm
18) benzo(a)pyrene	14.297	2316177	25.057 µg/ml
19) indeno(1,2,3-cd)pyrene	15.442	2336647	24.685 µg/mlm
20) dibenzo(ah)anthracene	15.482	2275951	24.901 µg/mlm
21) benzo(ghi)perylene	15.663	2311900	25.096 µg/ml
25) h c-9	2.648	1183700	16.024 µg/mlm
26) h c-10	3.815	1323602	17.917 µg/ml
27) naphthalene #2	5.488	4245	0.053 µg/ml
28) c-12	5.665	1384516	18.742 µg/ml
29) 2-methylnaphthalene #2	6.383	4367	0.054 µg/ml
30) c-14	7.182	1388438	18.795 µg/ml
31) c-16	8.512	1395862	18.896 µg/ml
32) c-18	9.707	1471997	19.926 µg/ml
33) c-19	10.260	1473995	22.064 µg/ml
34) c-20	10.792	1498055	22.424 µg/ml
36) c-22	11.787	1524987	22.827 µg/ml
37) c-24	12.705	1526524	22.850 µg/ml

SGS ACCUTEST MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:40:47 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	13.557	1500884	22.466	µg/ml
39)		c-28	14.350	1482478	22.191	µg/ml
40)	h	c-30	15.098	1444885	21.628	µg/ml
41)	h	c-36	17.008	1077632	16.131	µg/mlm

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

9.3.4

9

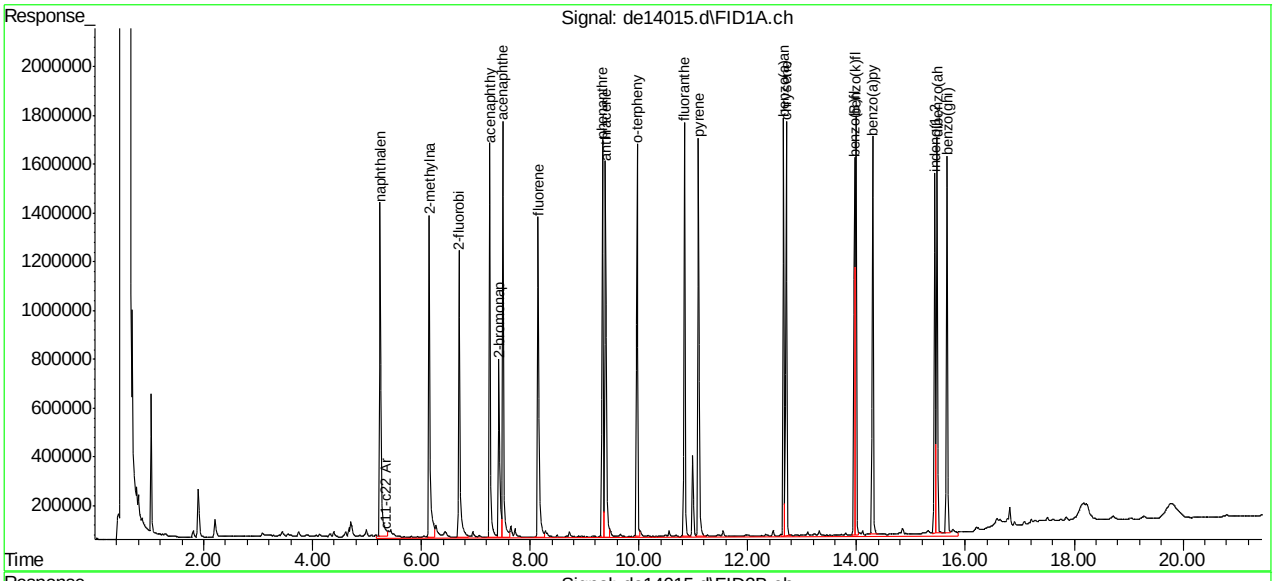
SGS ACCUTEST MC45538

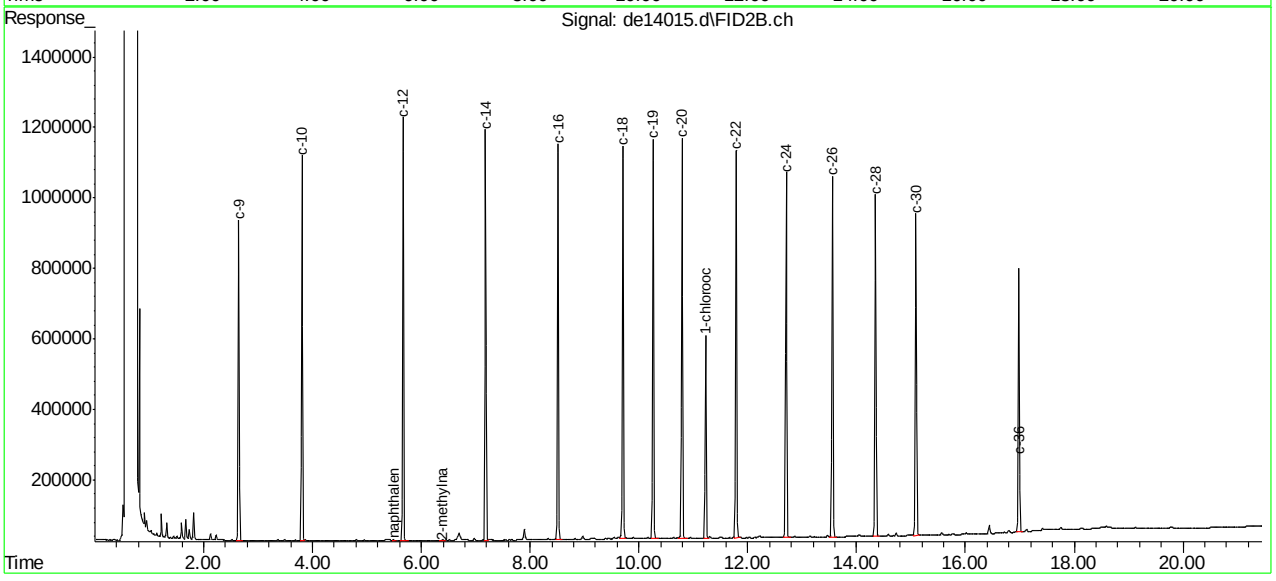
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

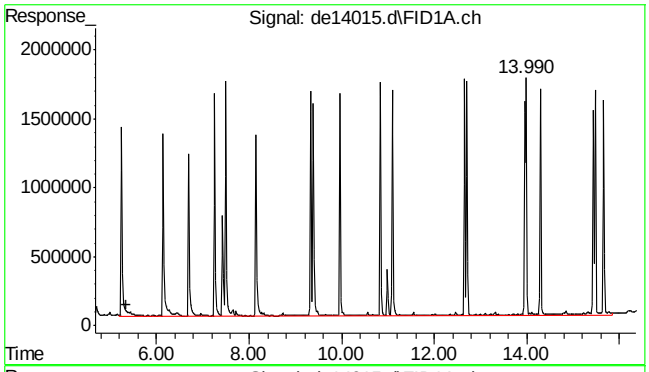
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:40:47 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 2016
Response via : Initial Calibration
Integrator: RTE

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



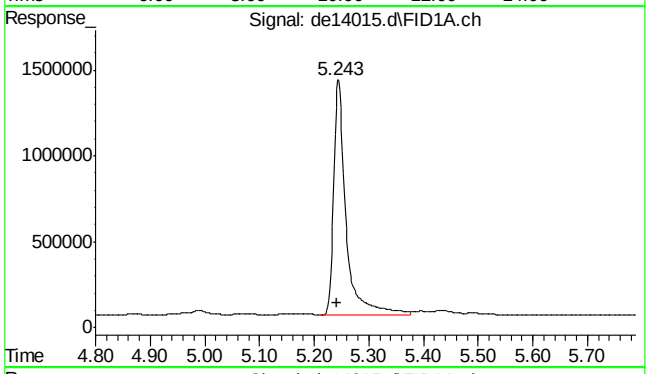


EPH160504W.M Wed May 04 13:27:24 2016 Page: 3



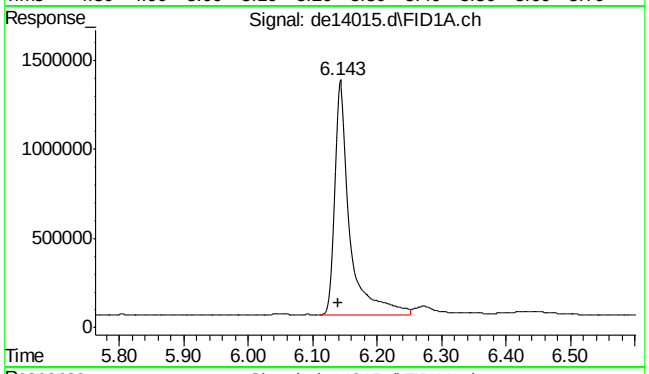
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 43878119
Conc: 446.80 µg/ml m



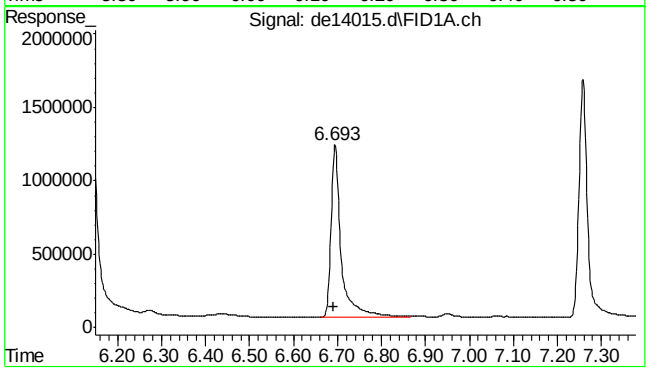
#2 naphthalene

R.T.: 5.243 min
Delta R.T.: 0.002 min
Response: 2170813
Conc: 21.05 µg/ml



#3 2-methylnaphthalene

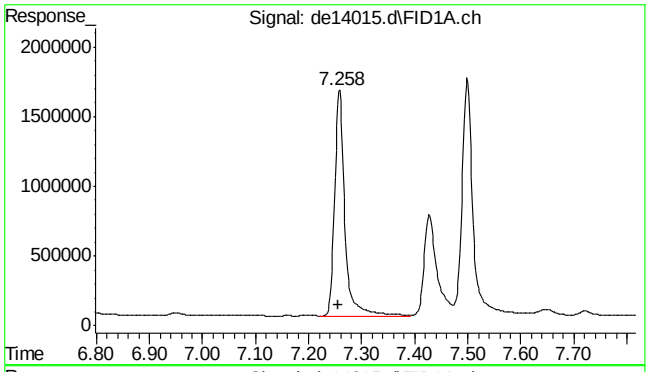
R.T.: 6.143 min
Delta R.T.: 0.003 min
Response: 2171456
Conc: 21.19 µg/ml



#4 2-fluorobiphenyl

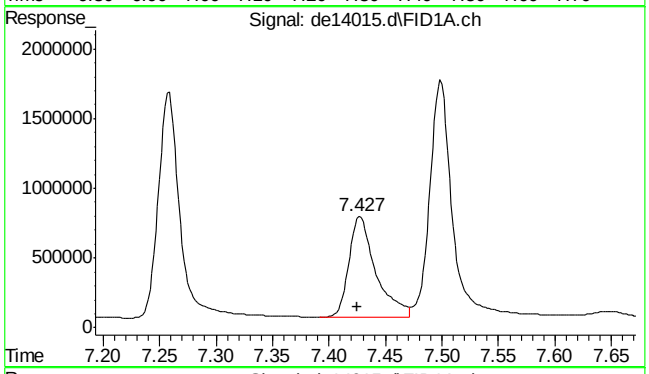
R.T.: 6.693 min
Delta R.T.: 0.002 min
Response: 1899866
Conc: 20.60 µg/ml

SGS ACCUTEST MC45538



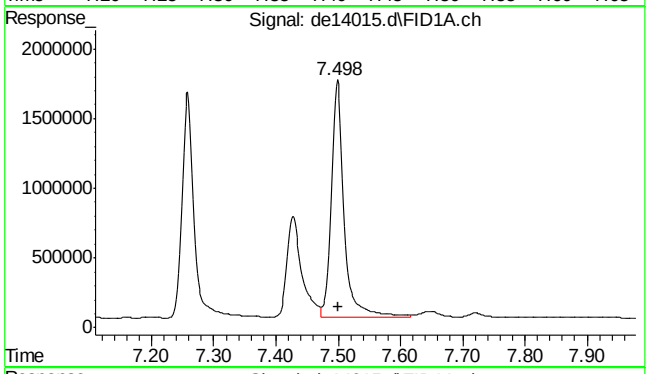
#5 acenaphthylene

R.T.: 7.258 min
Delta R.T.: 0.002 min
Response: 2173550
Conc: 21.61 µg/ml



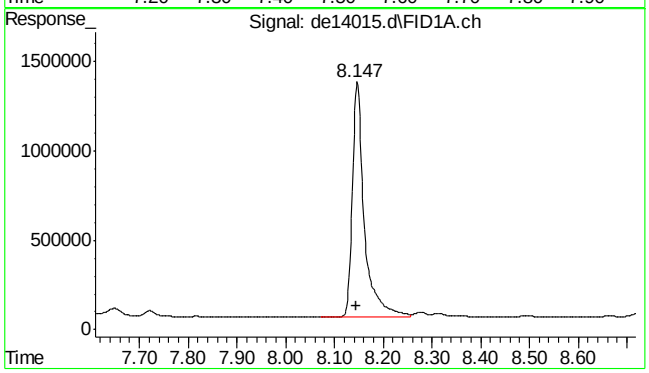
#6 2-bromonaphthalene

R.T.: 7.427 min
Delta R.T.: 0.002 min
Response: 1210800
Conc: 19.29 µg/ml



#7 acenaphthene

R.T.: 7.498 min
Delta R.T.: -0.002 min
Response: 2444963
Conc: 23.65 µg/ml



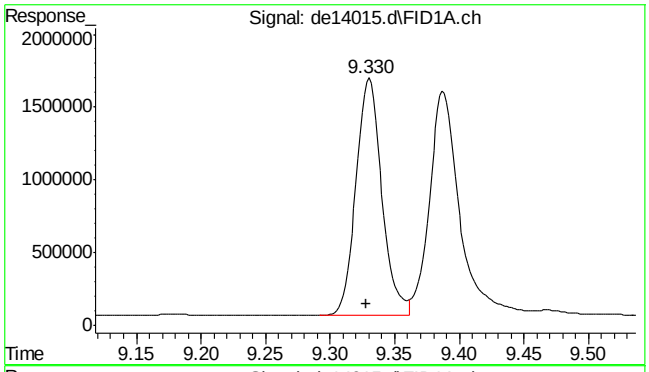
#8 fluorene

R.T.: 8.147 min
Delta R.T.: 0.002 min
Response: 2266837
Conc: 22.32 µg/ml

9.3.4

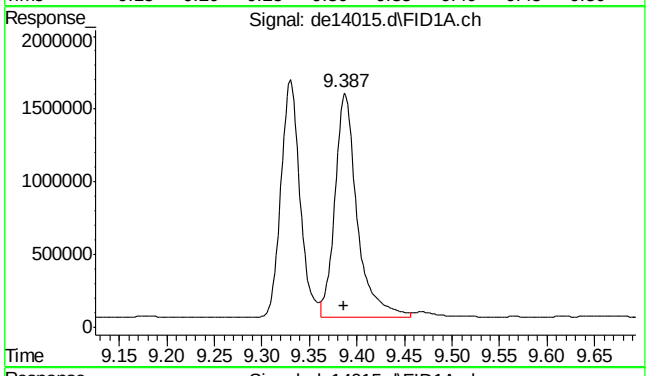
9

SGS ACCUTEST MC45538



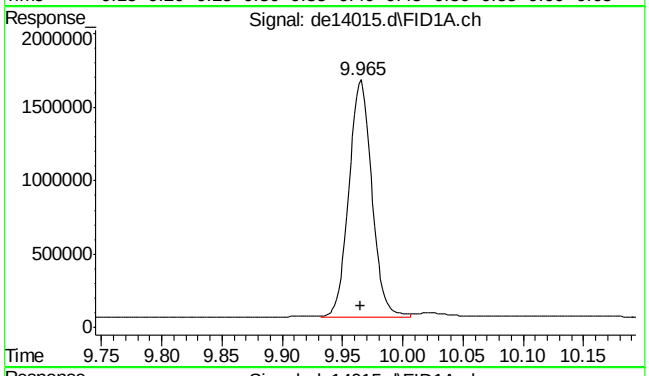
#9 phenanthrene

R.T.: 9.330 min
Delta R.T.: 0.002 min
Response: 2265236
Conc: 22.26 µg/ml



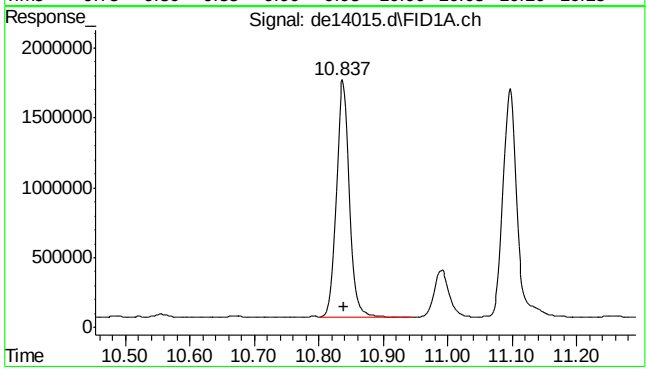
#10 anthracene

R.T.: 9.387 min
Delta R.T.: 0.000 min
Response: 2501344
Conc: 25.78 µg/ml



#11 o-terphenyl

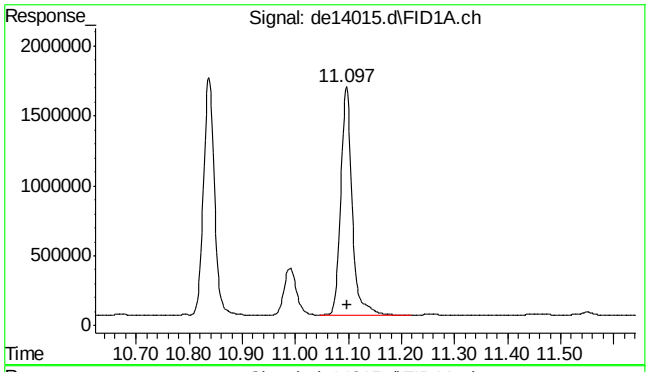
R.T.: 9.965 min
Delta R.T.: 0.000 min
Response: 2125695
Conc: 20.75 µg/ml



#12 fluoranthene

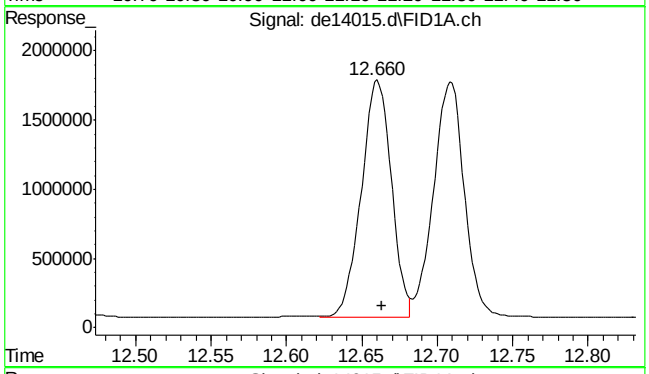
R.T.: 10.837 min
Delta R.T.: -0.002 min
Response: 2419392
Conc: 24.21 µg/ml

SGS ACCUTEST MC45538



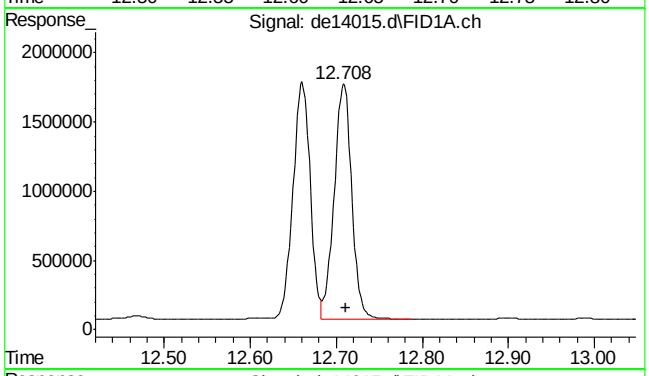
#13 pyrene

R.T.: 11.097 min
Delta R.T.: 0.000 min
Response: 2451525
Conc: 24.16 µg/ml



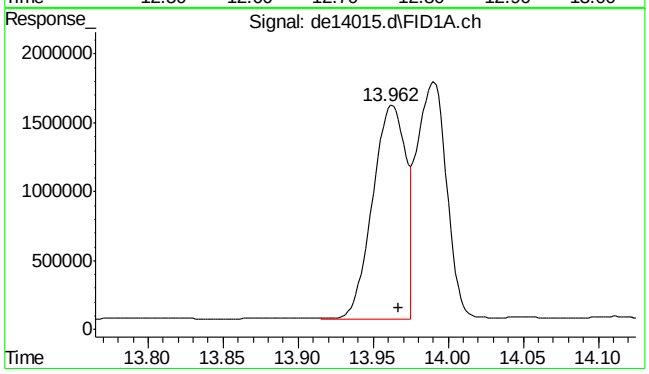
#14 benzo(a)anthracene

R.T.: 12.660 min
Delta R.T.: -0.003 min
Response: 2371270
Conc: 24.53 µg/ml



#15 chrysene

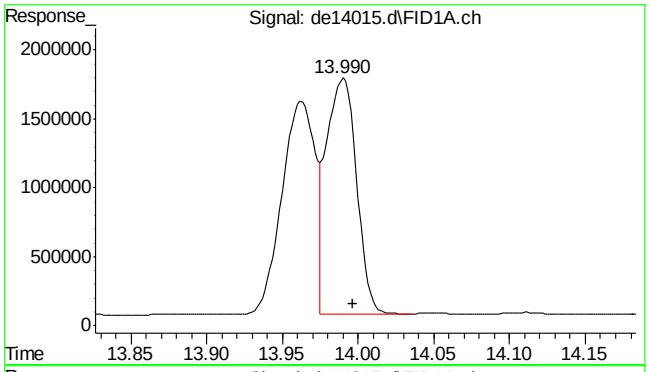
R.T.: 12.708 min
Delta R.T.: -0.003 min
Response: 2406971
Conc: 24.73 µg/ml



#16 benzo(B)fluoranthene

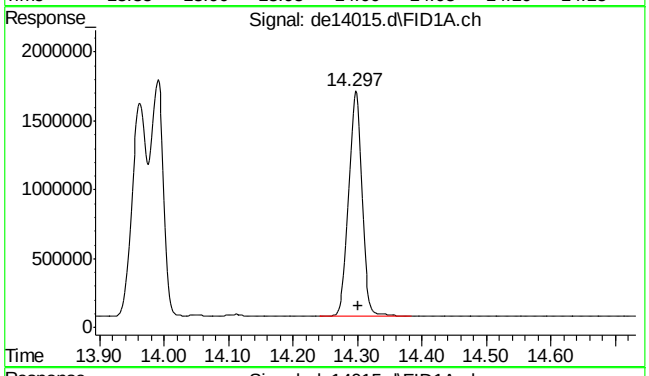
R.T.: 13.962 min
Delta R.T.: -0.005 min
Response: 2426748
Conc: 24.51 µg/ml m

SGS ACCUTEST MC45538



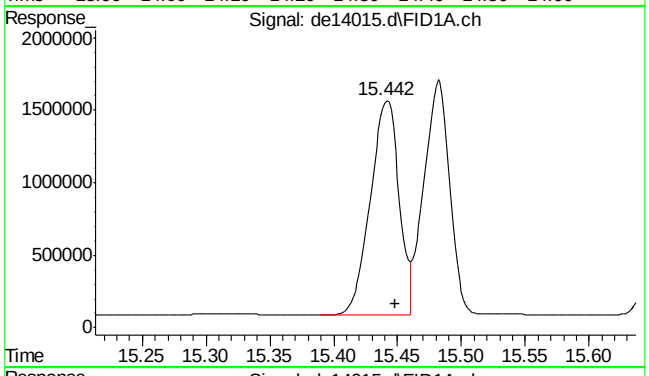
#17 benzo(k)fluoranthene

R.T.: 13.990 min
Delta R.T.: -0.007 min
Response: 2331385
Conc: 24.67 µg/ml m



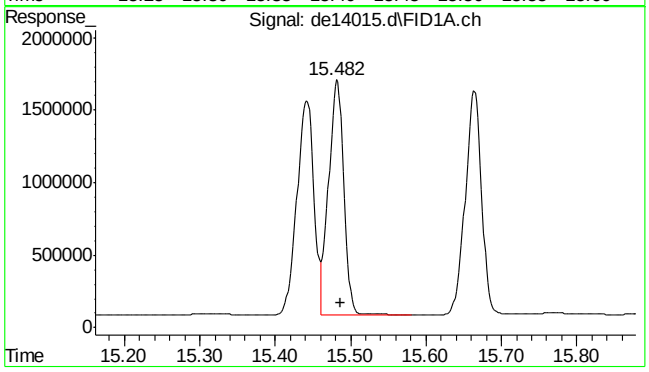
#18 benzo(a)pyrene

R.T.: 14.297 min
Delta R.T.: -0.005 min
Response: 2316177
Conc: 25.06 µg/ml



#19 indeno(1,2,3-cd)pyrene

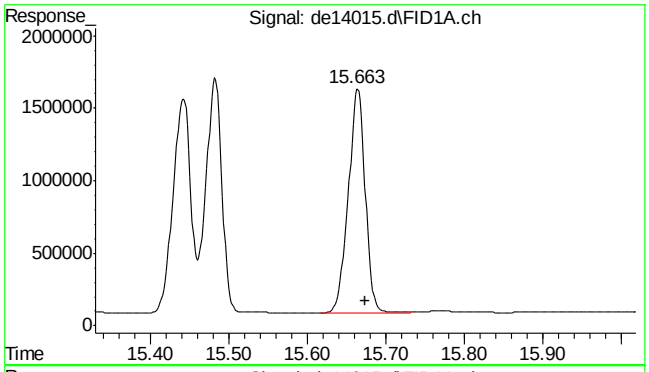
R.T.: 15.442 min
Delta R.T.: -0.007 min
Response: 2336647
Conc: 24.69 µg/ml m



#20 dibenzo(ah)anthracene

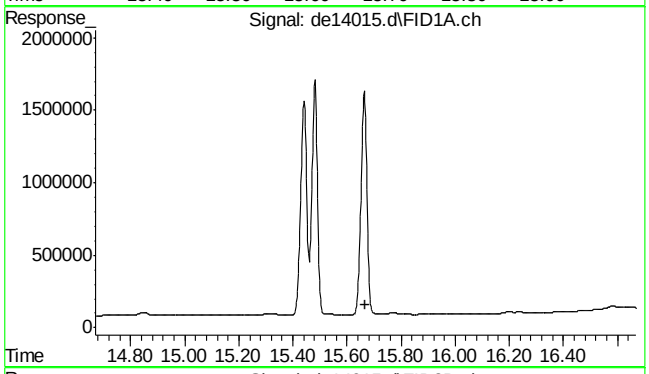
R.T.: 15.482 min
Delta R.T.: -0.005 min
Response: 2275951
Conc: 24.90 µg/ml m

SGS ACCUTEST MC45538



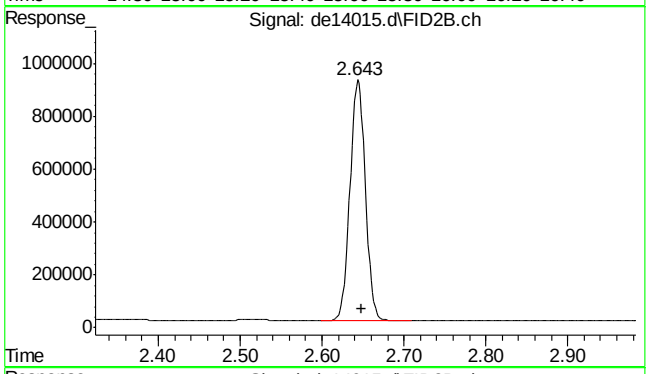
#21 benzo(ghi)perylene

R.T.: 15.663 min
Delta R.T.: -0.010 min
Response: 2311900
Conc: 25.10 µg/ml



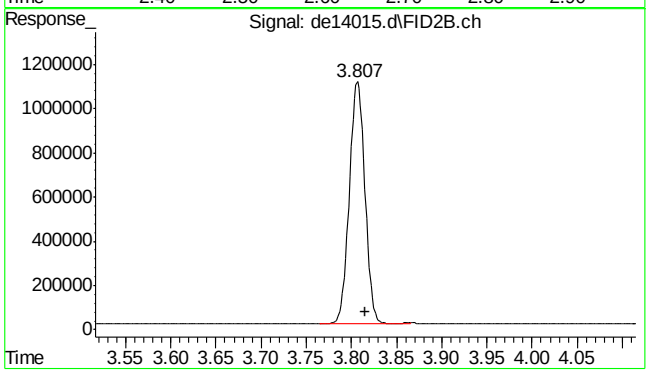
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1183700
Conc: 16.02 µg/ml m



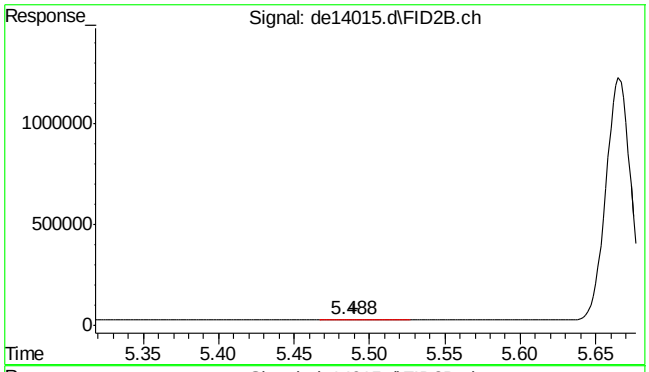
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1323602
Conc: 17.92 µg/ml

9.3.4

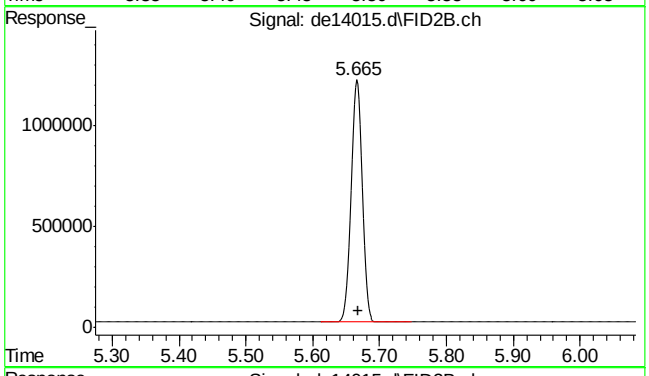
9

SGS ACCUTEST MC45538



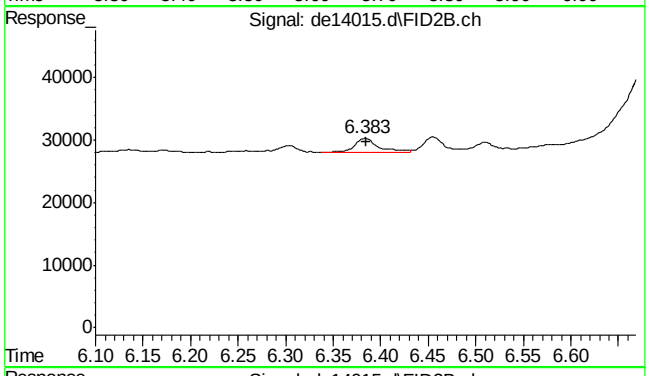
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: -0.002 min
Response: 4245
Conc: 0.05 µg/ml



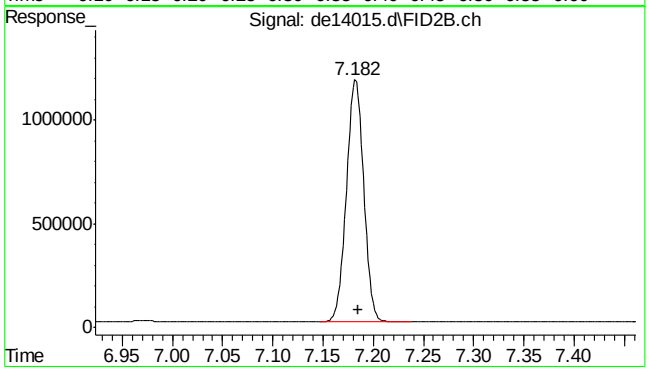
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.003 min
Response: 1384516
Conc: 18.74 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 4367
Conc: 0.05 µg/ml



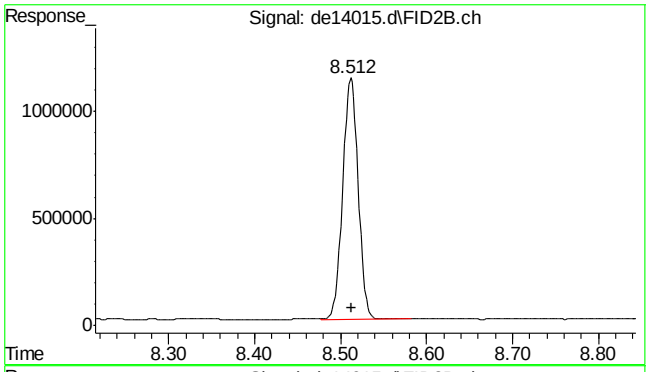
#30 c-14

R.T.: 7.182 min
Delta R.T.: -0.003 min
Response: 1388438
Conc: 18.80 µg/ml

9.3.4

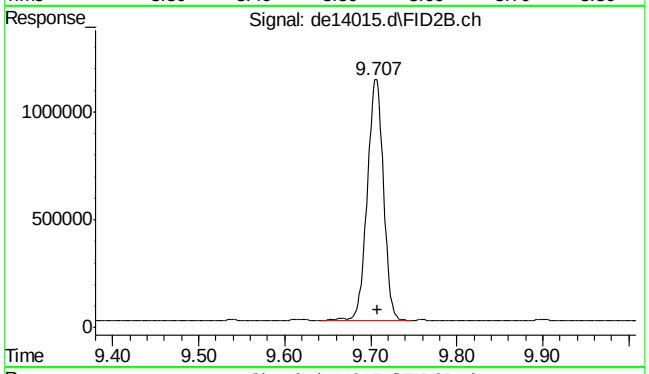
9

SGS ACCUTEST MC45538



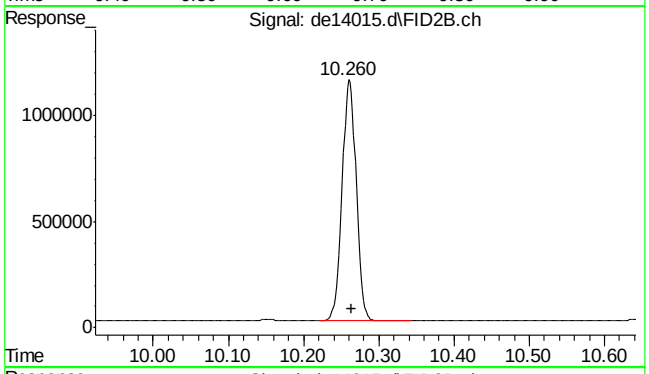
#31 c-16

R.T.: 8.512 min
Delta R.T.: -0.002 min
Response: 1395862
Conc: 18.90 µg/ml



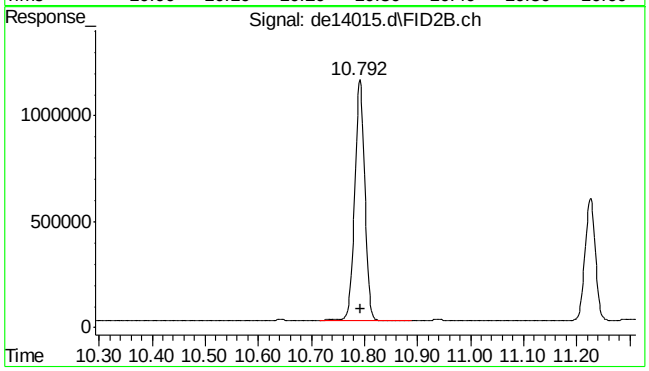
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 1471997
Conc: 19.93 µg/ml



#33 c-19

R.T.: 10.260 min
Delta R.T.: -0.003 min
Response: 1473995
Conc: 22.06 µg/ml



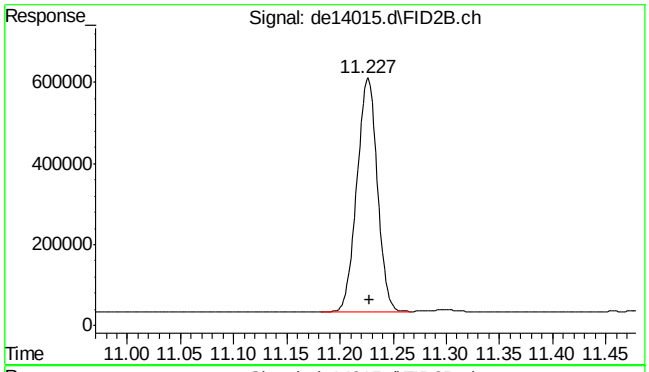
#34 c-20

R.T.: 10.792 min
Delta R.T.: -0.002 min
Response: 1498055
Conc: 22.42 µg/ml

9.3.4

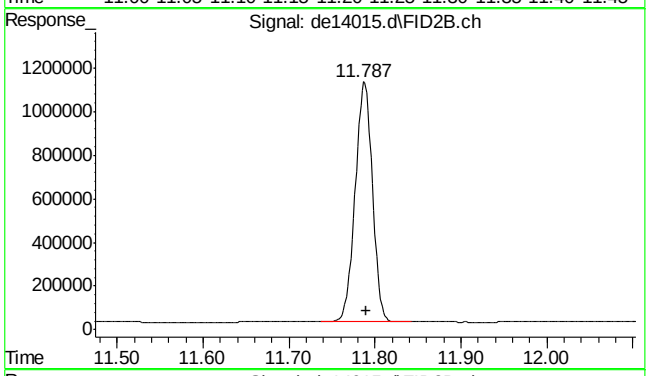
9

SGS ACCUTEST MC45538



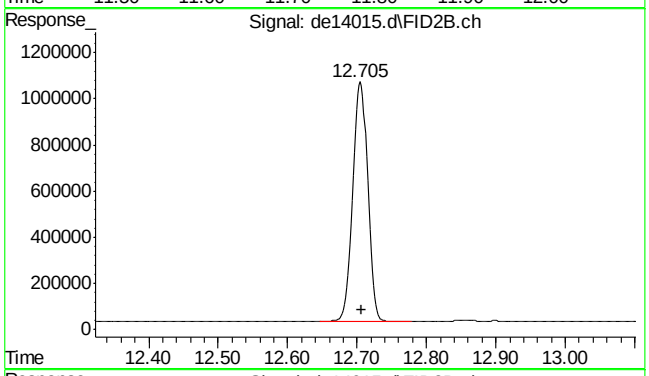
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 770098
Conc: 13.61 µg/ml



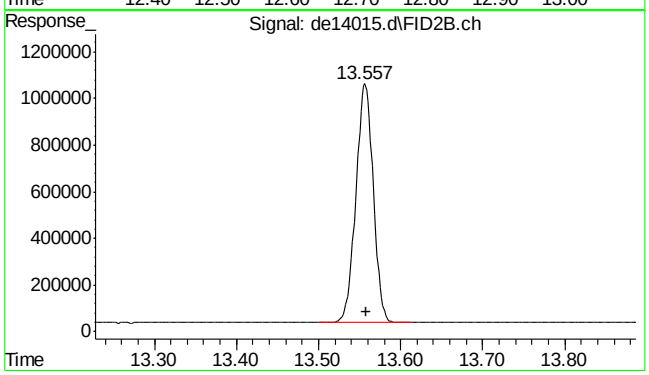
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.003 min
Response: 1524987
Conc: 22.83 µg/ml



#37 c-24

R.T.: 12.705 min
Delta R.T.: -0.002 min
Response: 1526524
Conc: 22.85 µg/ml



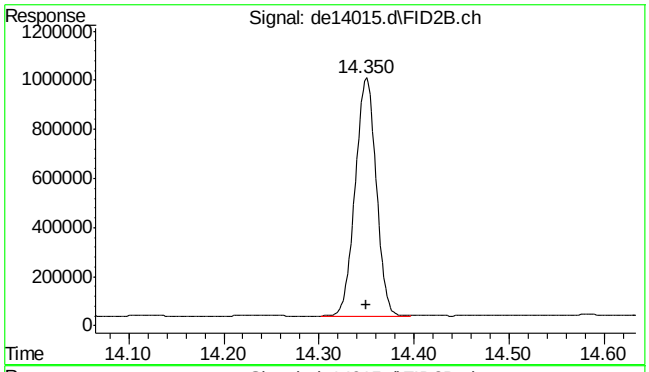
#38 c-26

R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 1500884
Conc: 22.47 µg/ml

9.3.4

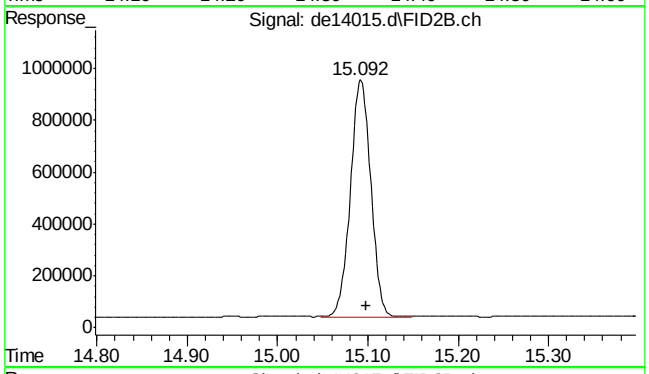
9

SGS ACCUTEST MC45538



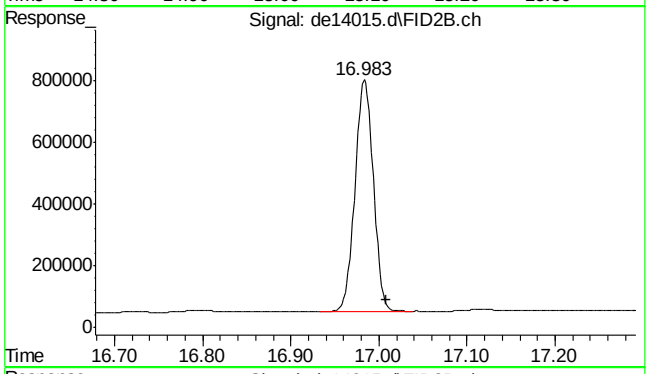
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 1482478
Conc: 22.19 µg/ml



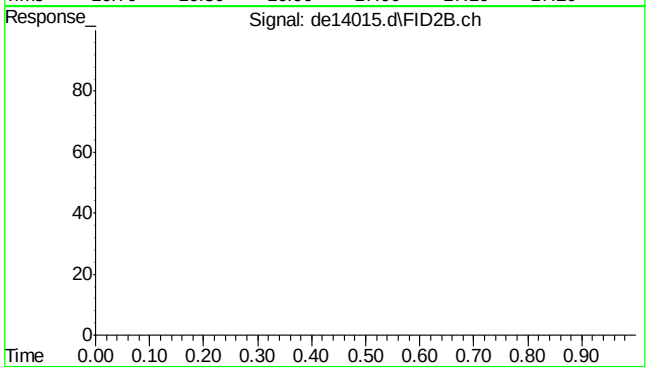
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1444885
Conc: 21.63 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1077632
Conc: 16.13 µg/ml m



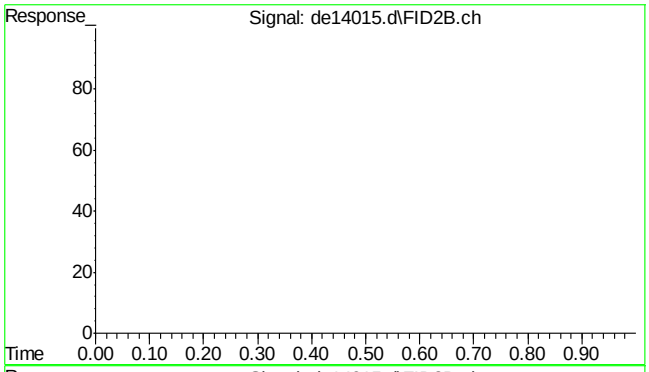
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.4

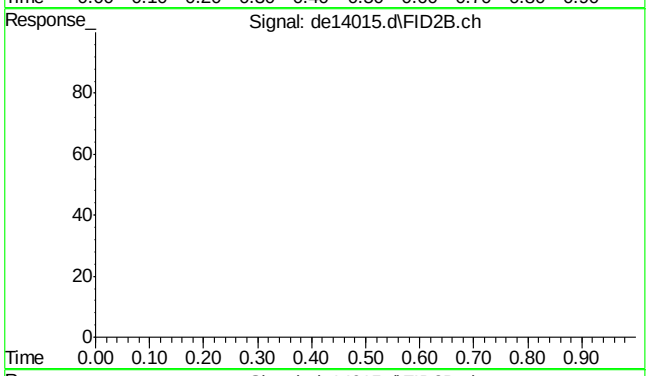
9

SGS ACCUTEST MC45538



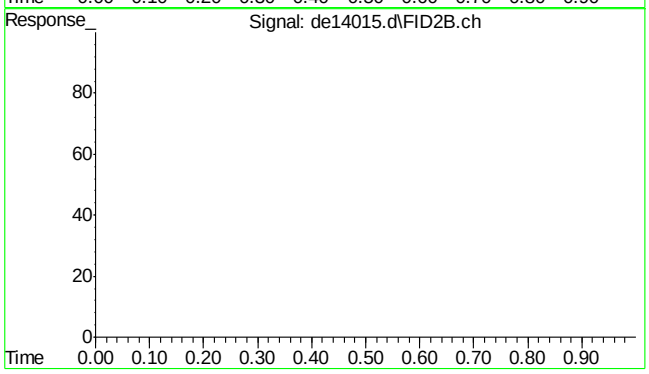
#43 bht

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.

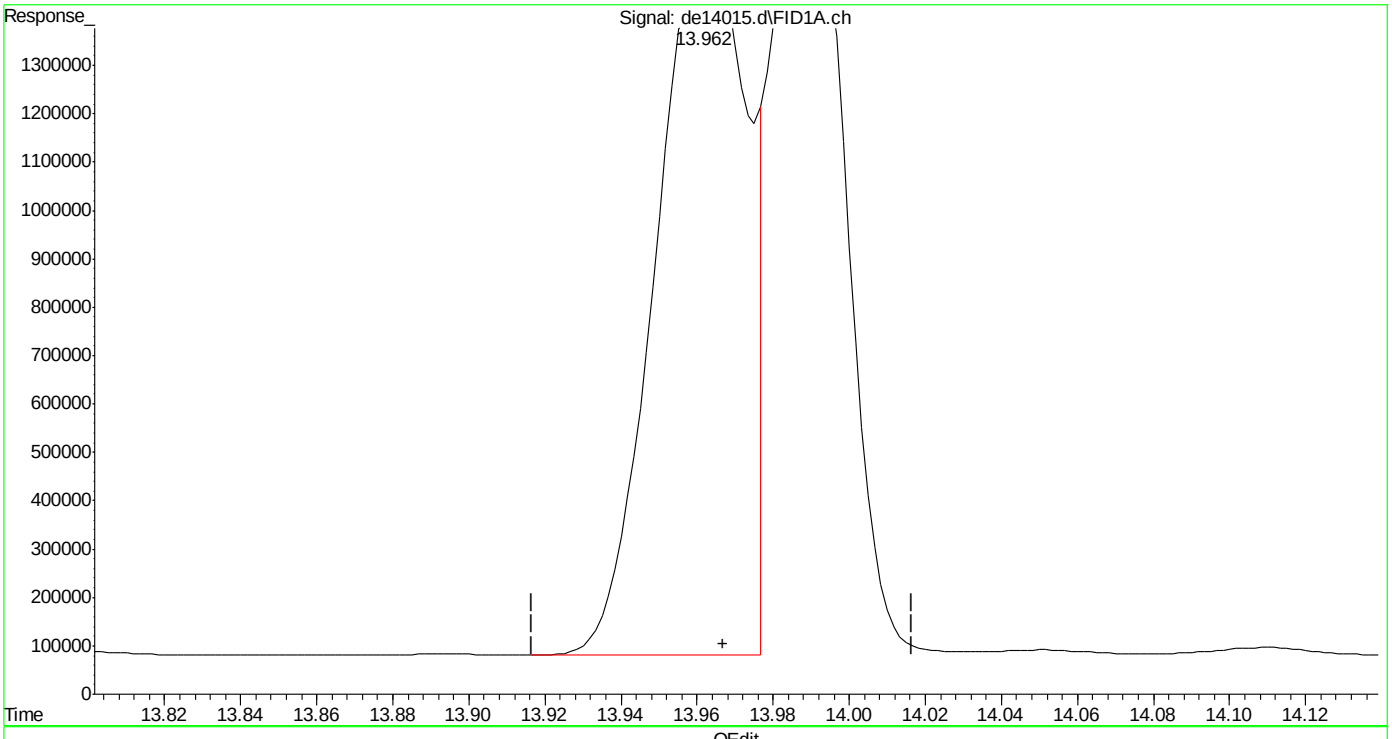
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:36:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
13.962min 25.630 µg/ml
response 2537425

(+) = Expected Retention Time
EPH160504W.M Wed May 04 10:38:41 2016

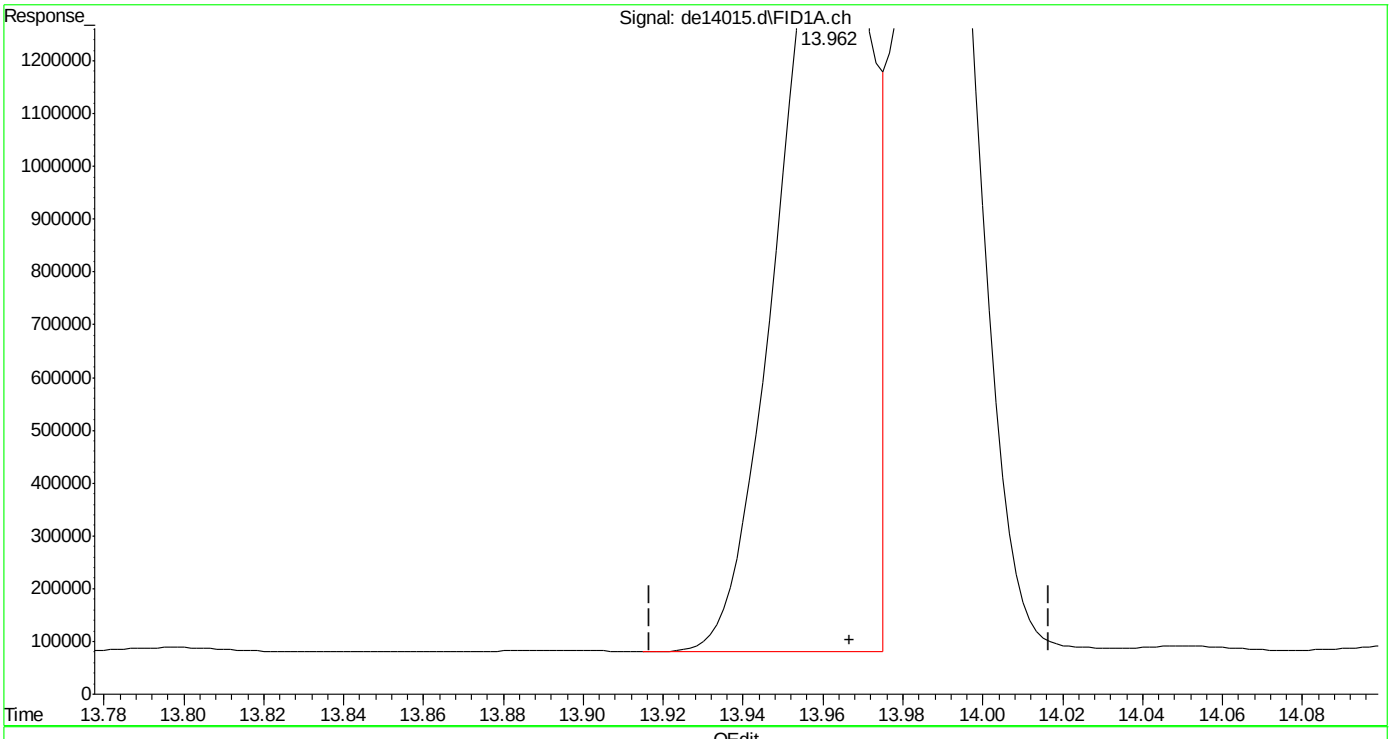
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:36:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
13.962min 24.512 µg/ml m
response 2426748

(+) = Expected Retention Time

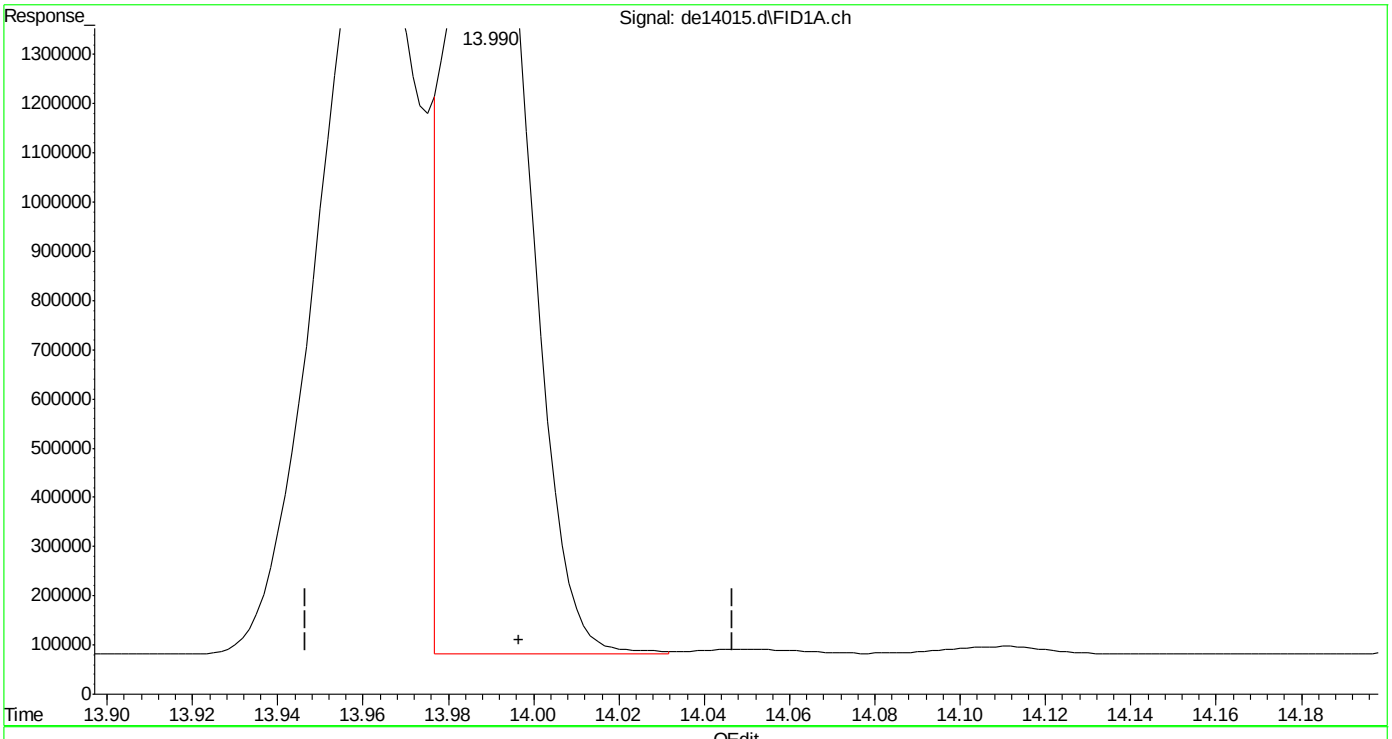
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:36:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
13.990min 23.440 µg/ml
response 2215174

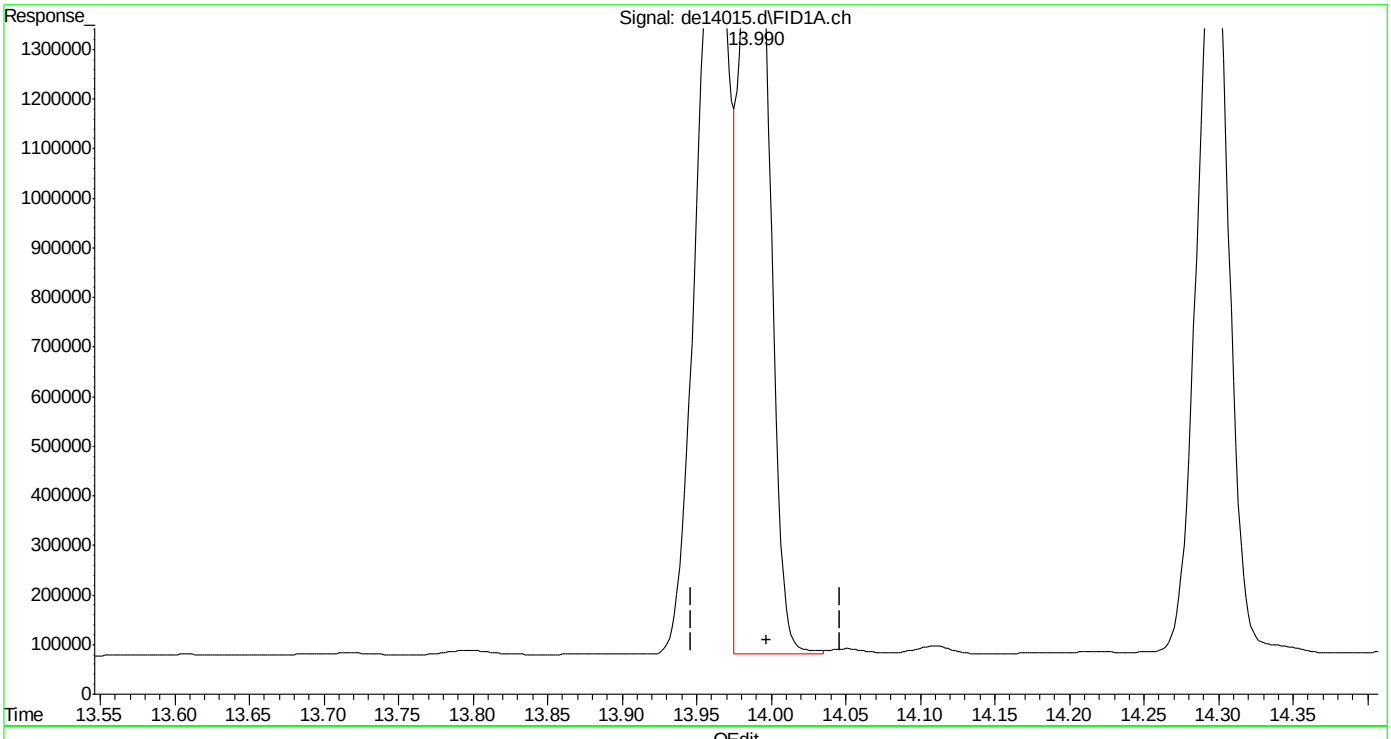
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:36:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
13.990min 24.670 µg/ml m
response 2331385

(+) = Expected Retention Time

EPH160504W.M Wed May 04 10:39:32 2016

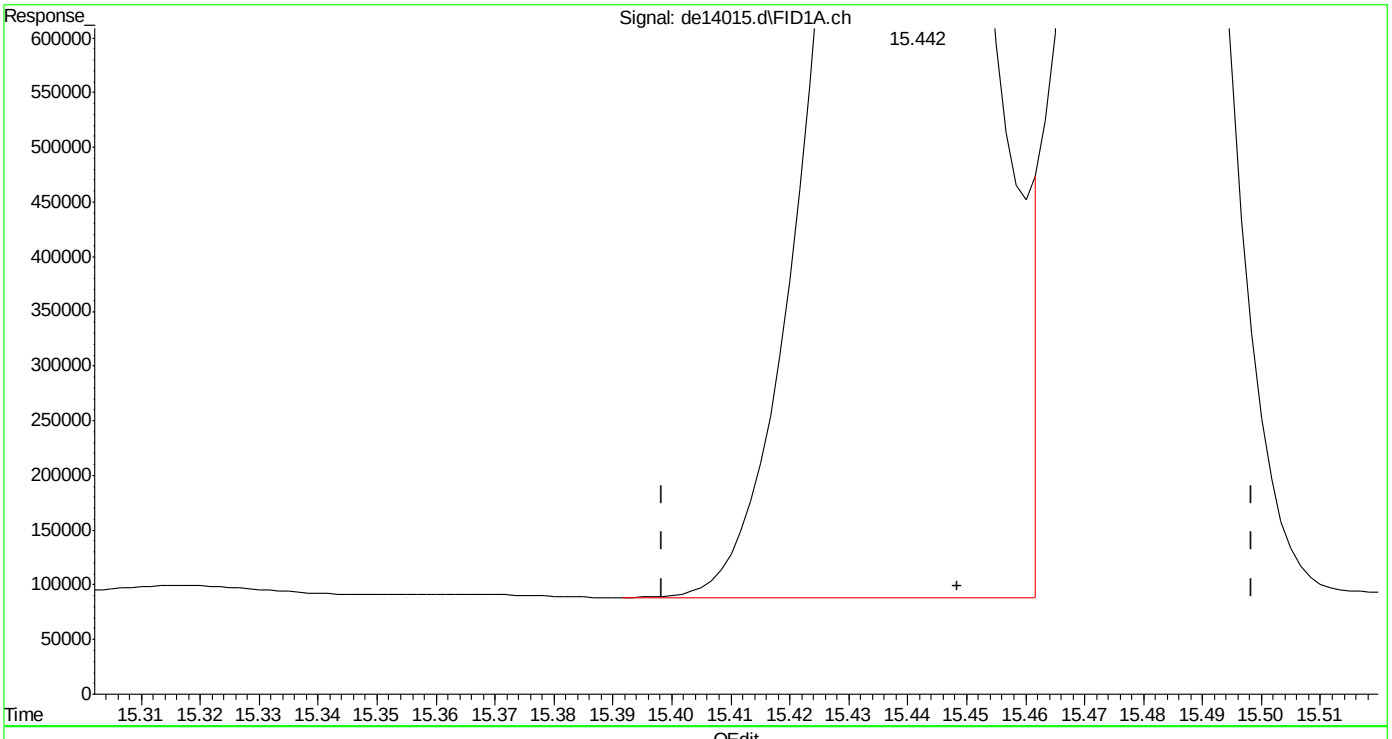
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:36:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.442min 25.048 µg/ml
response 2370993

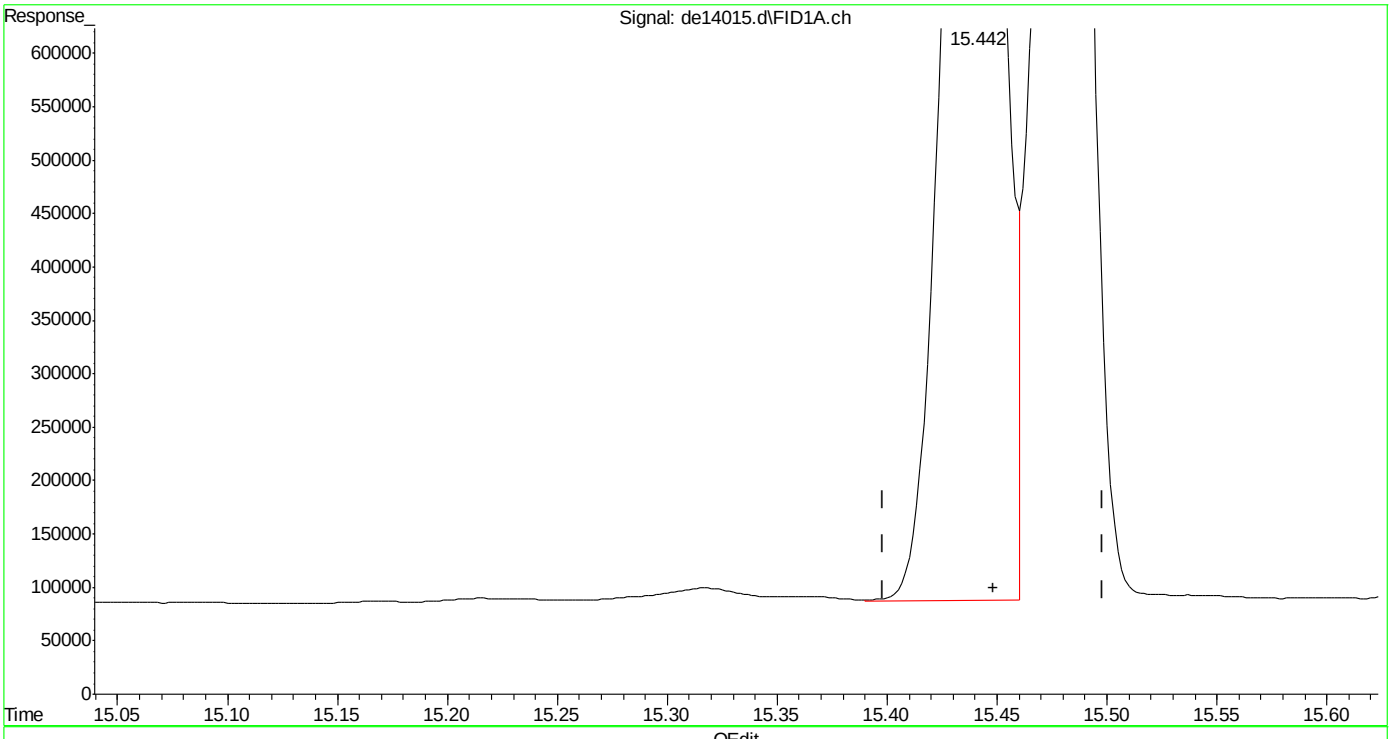
(+) = Expected Retention Time
EPH160504W.M Wed May 04 10:39:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:36:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.442min 24.685 µg/ml m
response 2336647

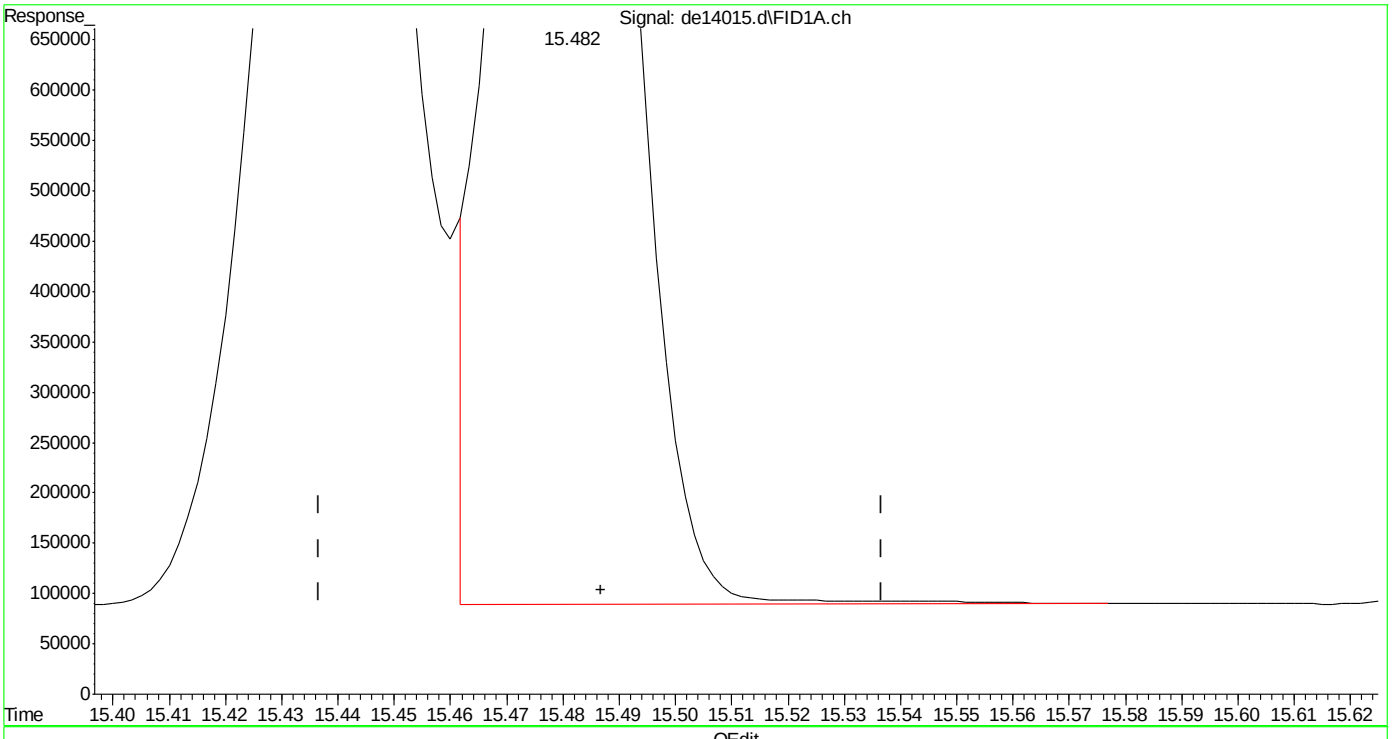
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:36:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.482min 24.375 µg/ml
response 2227810

(+) = Expected Retention Time
EPH160504W.M Wed May 04 10:40:04 2016

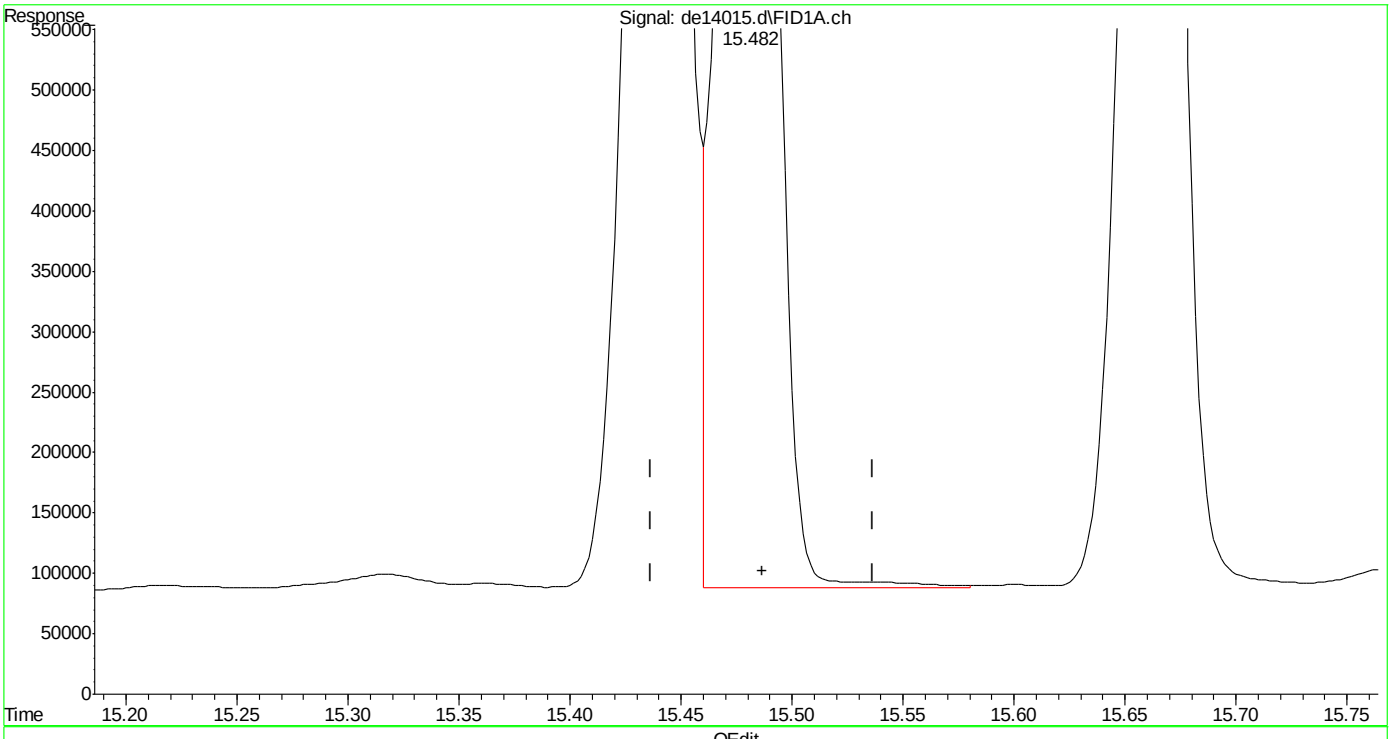
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14015.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 10:14 am
Operator : thomasa
Sample : op47259-bsd
Misc : op47259,gde784,11.87,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 10:36:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.482min 24.901 µg/ml m
response 2275951

(+) = Expected Retention Time
EPH160504W.M Wed May 04 10:40:14 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/02/16 10:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13987.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 5:08 pm
Operator : thomasa
Sample : op47246-ms
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:48:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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	6.715	1466397	15.899 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 79.49%#	
6) s 2-bromonaphthalene	7.448	899460	14.333 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 71.67%#	
11) s o-terphenyl	9.982	1580954	15.435 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 77.18%#	
35) s 1-chlorooctadecane	11.227	746781	13.200 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 66.00%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	35569559	362.198 µg/mlm
2) naphthalene	5.263	1336163	12.955 µg/ml
3) 2-methylnaphthalene	6.163	1443315	14.084 µg/ml
5) acenaphthylene	7.277	1584543	15.751 µg/ml
7) acenaphthene	7.517	1932318	18.692 µg/ml
8) fluorene	8.168	1771731	17.444 µg/ml
9) phenanthrene	9.350	1837660	18.058 µg/ml
10) anthracene	9.410	2122072	21.875 µg/ml
12) fluoranthene	10.858	2134865	21.361 µg/ml
13) pyrene	11.118	2154833	21.238 µg/ml
14) benzo(a)anthracene	12.683	2040648	21.108 µg/ml
15) chrysene	12.730	2217971	22.786 µg/ml
16) benzo(B)fluoranthene	13.985	2048980	20.696 µg/mlm
17) benzo(k)fluoranthene	14.013	1989002	21.047 µg/ml
18) benzo(a)pyrene	14.323	1974591	21.362 µg/ml
19) indeno(1,2,3-cd)pyrene	15.468	1355858	14.324 µg/ml
20) dibenzo(ah)anthracene	15.503	1752525	19.174 µg/ml
21) benzo(ghi)perylene	15.688	2029470	22.030 µg/ml
25) h c-9	2.648	8757564	118.550 µg/mlm
41) h c-36	17.008	12089581	180.964 µg/mlm

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

9.4.1
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13987.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
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Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

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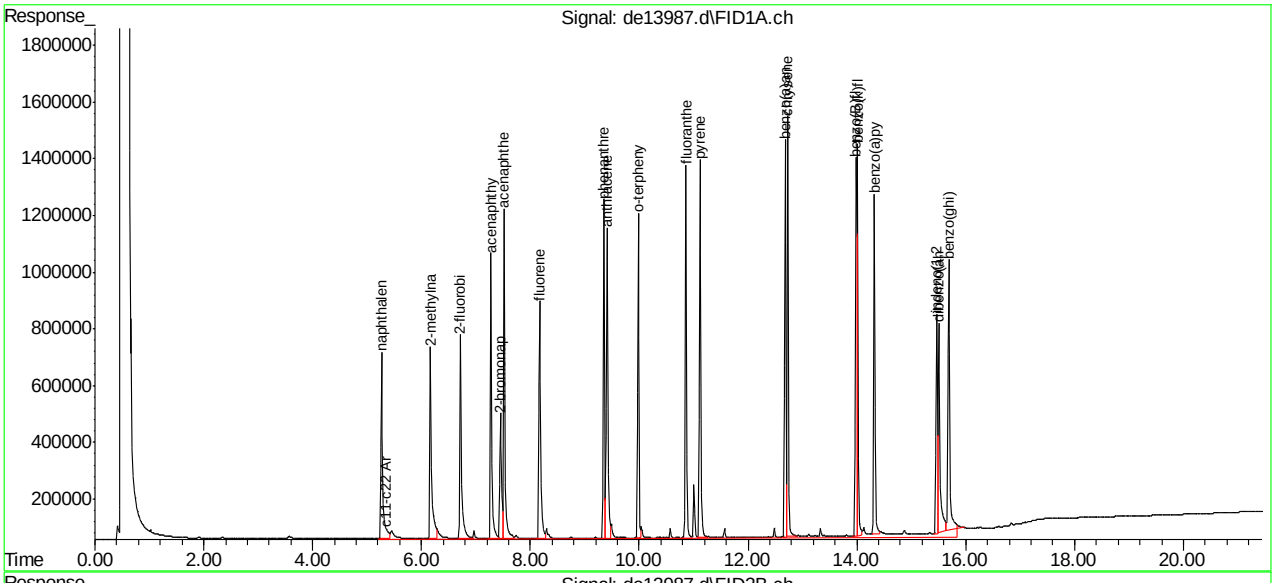
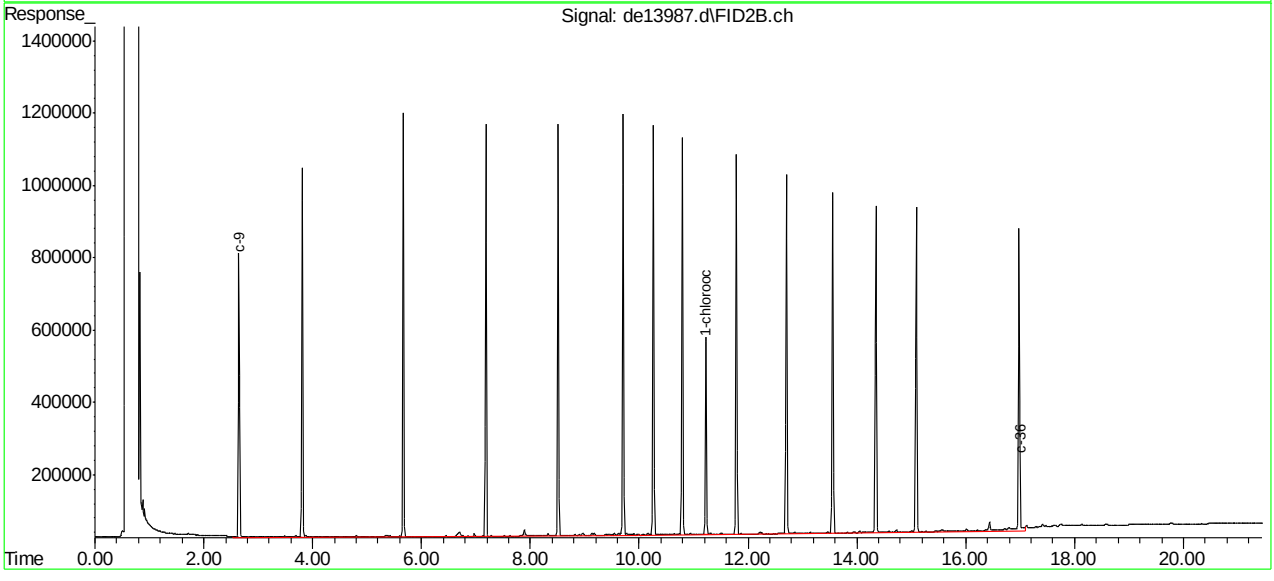
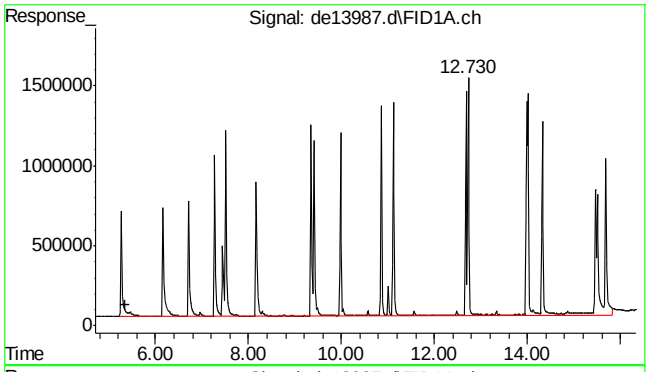
Quant Time: May 02 09:48:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 2016
Response via : Initial Calibration
Integrator: RTE

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



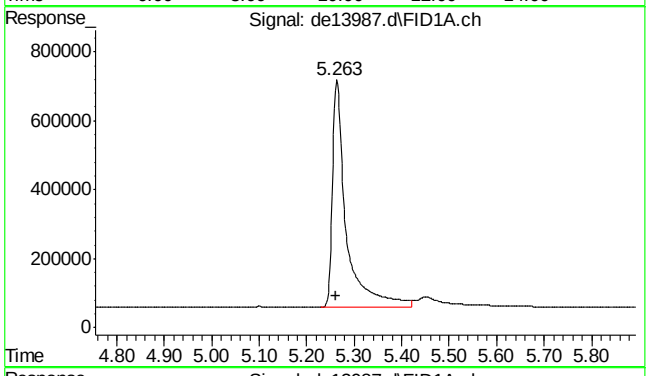


SGS ACCUTEST MC45538



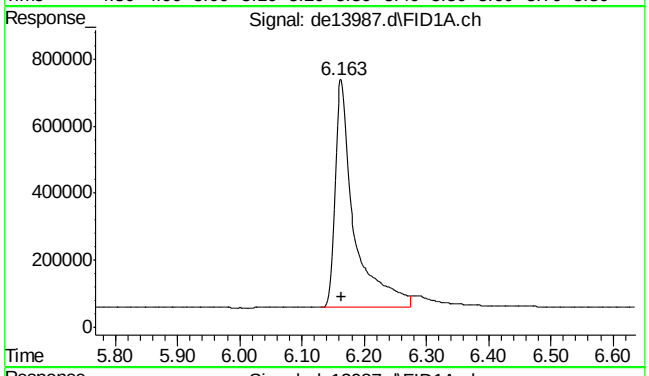
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 35569559
Conc: 362.20 µg/ml m



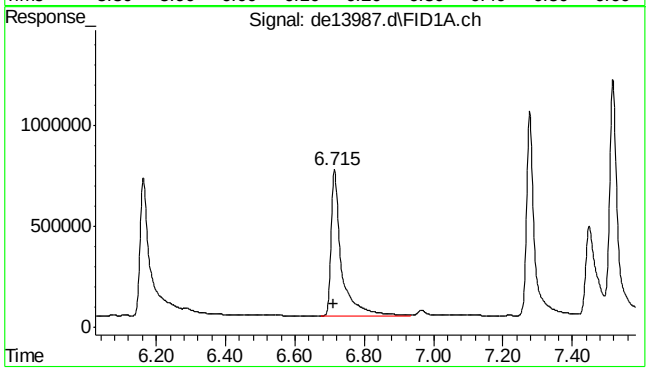
#2 naphthalene

R.T.: 5.263 min
Delta R.T.: 0.002 min
Response: 1336163
Conc: 12.95 µg/ml



#3 2-methylnaphthalene

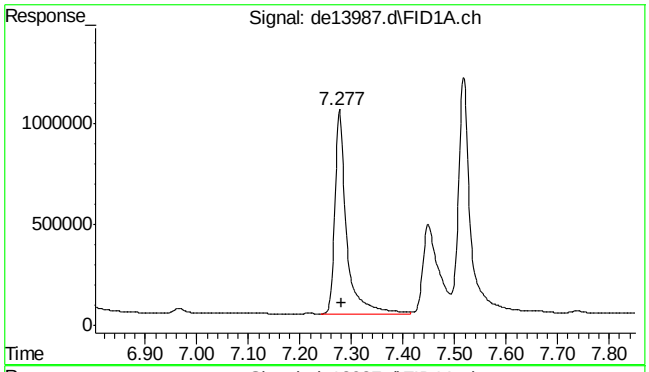
R.T.: 6.163 min
Delta R.T.: 0.000 min
Response: 1443315
Conc: 14.08 µg/ml



#4 2-fluorobiphenyl

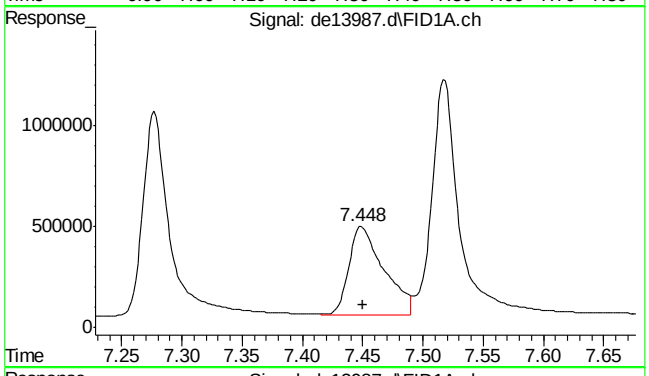
R.T.: 6.715 min
Delta R.T.: 0.002 min
Response: 1466397
Conc: 15.90 µg/ml

SGS ACCUTEST MC45538



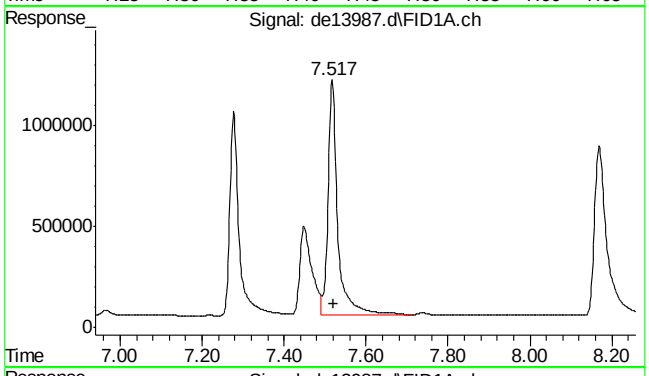
#5 acenaphthylene

R.T.: 7.277 min
Delta R.T.: -0.003 min
Response: 1584543
Conc: 15.75 µg/ml



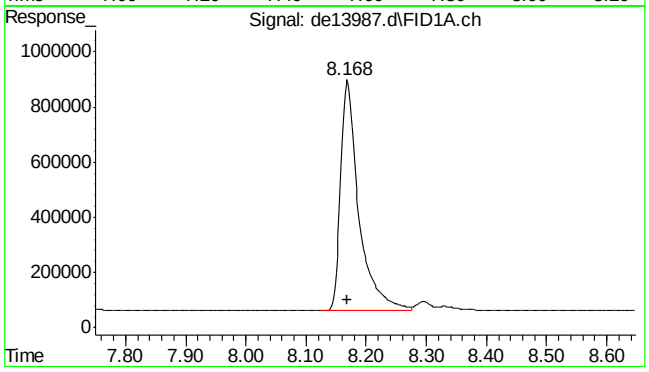
#6 2-bromonaphthalene

R.T.: 7.448 min
Delta R.T.: -0.002 min
Response: 899460
Conc: 14.33 µg/ml



#7 acenaphthene

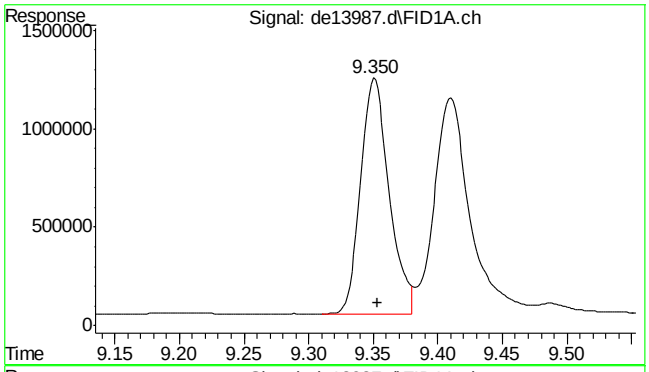
R.T.: 7.517 min
Delta R.T.: -0.005 min
Response: 1932318
Conc: 18.69 µg/ml



#8 fluorene

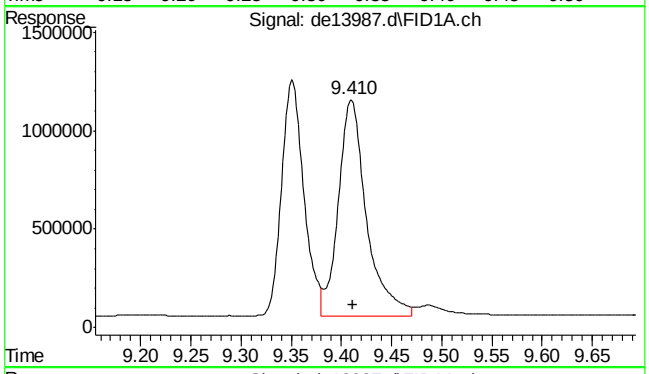
R.T.: 8.168 min
Delta R.T.: 0.000 min
Response: 1771731
Conc: 17.44 µg/ml

SGS ACCUTEST MC45538



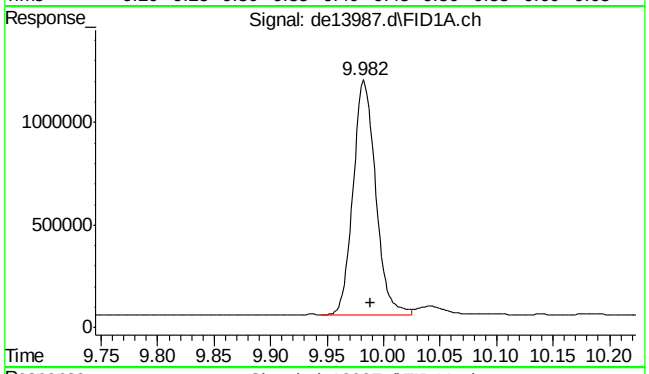
#9 phenanthrene

R.T.: 9.350 min
Delta R.T.: -0.003 min
Response: 1837660
Conc: 18.06 µg/ml



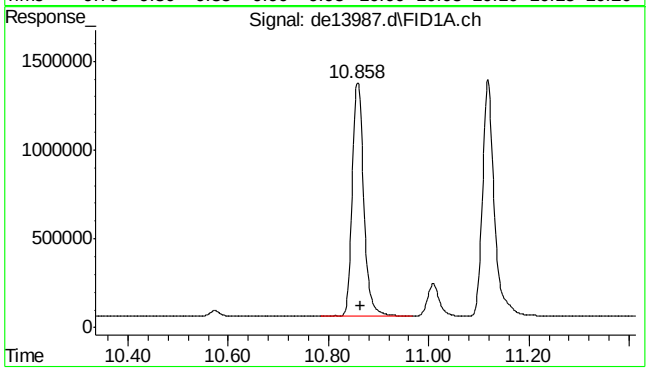
#10 anthracene

R.T.: 9.410 min
Delta R.T.: -0.002 min
Response: 2122072
Conc: 21.88 µg/ml



#11 o-terphenyl

R.T.: 9.982 min
Delta R.T.: -0.007 min
Response: 1580954
Conc: 15.44 µg/ml



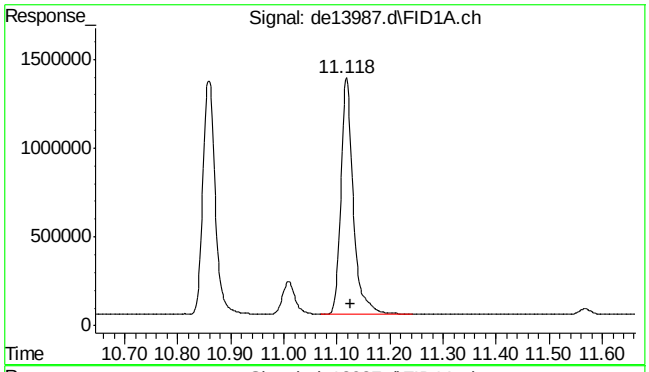
#12 fluoranthene

R.T.: 10.858 min
Delta R.T.: -0.005 min
Response: 2134865
Conc: 21.36 µg/ml

9.4.1

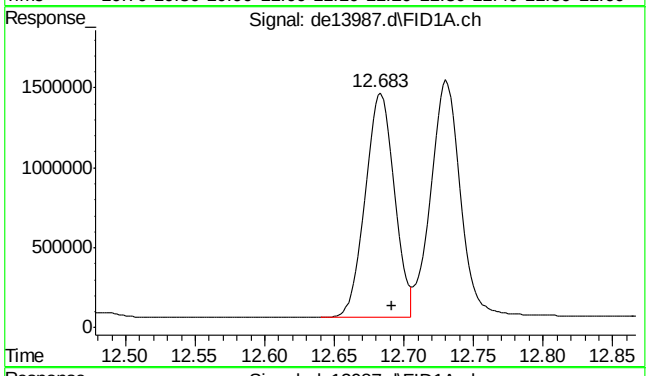
9

SGS ACCUTEST MC45538



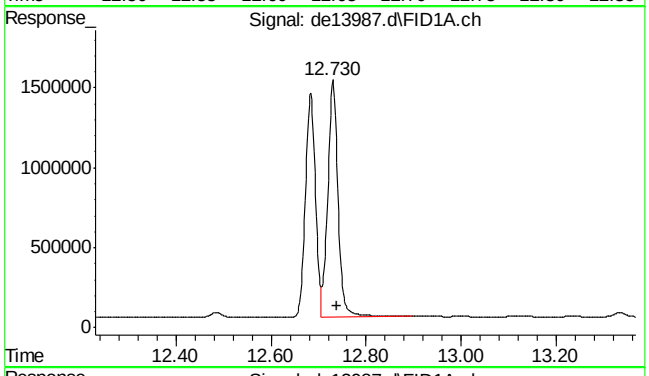
#13 pyrene

R.T.: 11.118 min
Delta R.T.: -0.007 min
Response: 2154833
Conc: 21.24 µg/ml



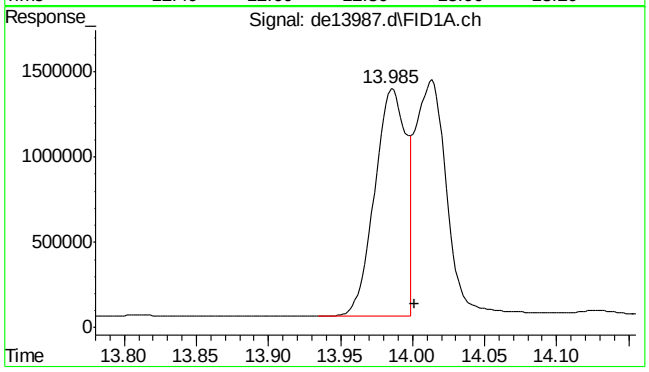
#14 benzo(a)anthracene

R.T.: 12.683 min
Delta R.T.: -0.008 min
Response: 2040648
Conc: 21.11 µg/ml



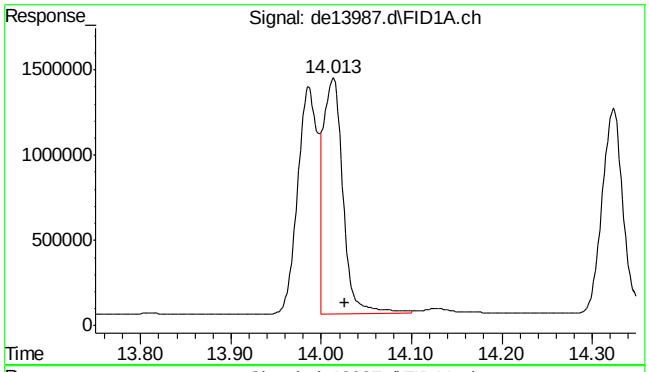
#15 chrysene

R.T.: 12.730 min
Delta R.T.: -0.008 min
Response: 2217971
Conc: 22.79 µg/ml



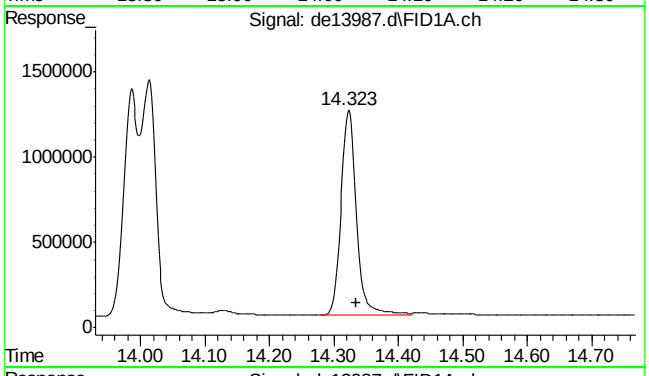
#16 benzo(B)fluoranthene

R.T.: 13.985 min
Delta R.T.: -0.017 min
Response: 2048980
Conc: 20.70 µg/ml m



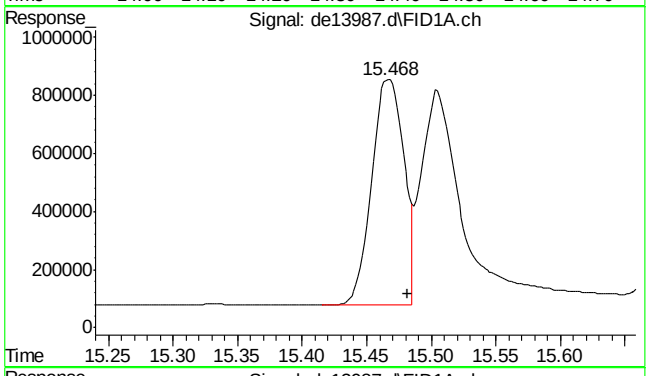
#17 benzo(k)fluoranthene

R.T.: 14.013 min
Delta R.T.: -0.013 min
Response: 1989002
Conc: 21.05 µg/ml



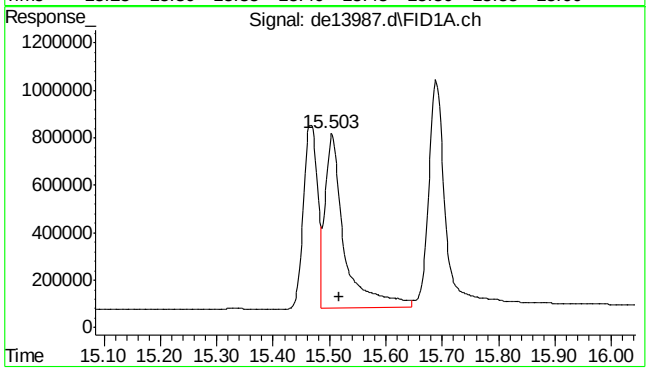
#18 benzo(a)pyrene

R.T.: 14.323 min
Delta R.T.: -0.012 min
Response: 1974591
Conc: 21.36 µg/ml



#19 indeno(1,2,3-cd)pyrene

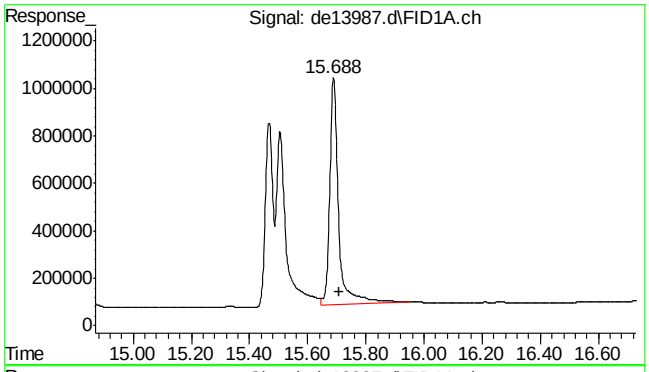
R.T.: 15.468 min
Delta R.T.: -0.013 min
Response: 1355858
Conc: 14.32 µg/ml



#20 dibenzo(ah)anthracene

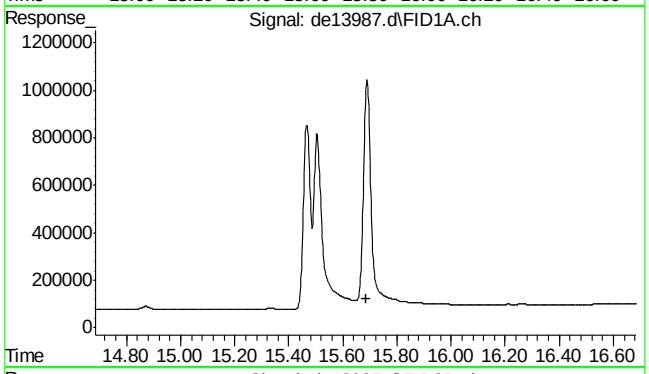
R.T.: 15.503 min
Delta R.T.: -0.013 min
Response: 1752525
Conc: 19.17 µg/ml

SGS ACCUTEST MC45538



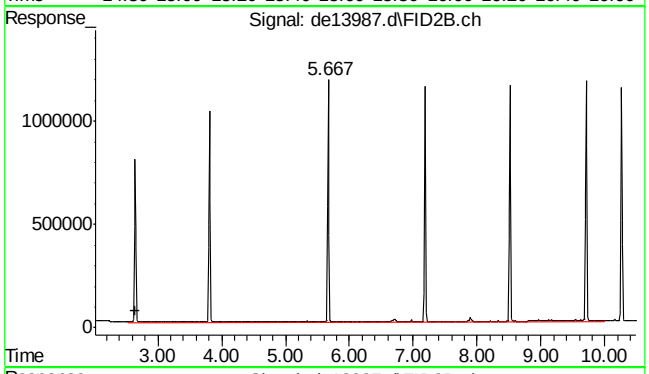
#21 benzo(ghi)perylene

R.T.: 15.688 min
Delta R.T.: -0.018 min
Response: 2029470
Conc: 22.03 µg/ml



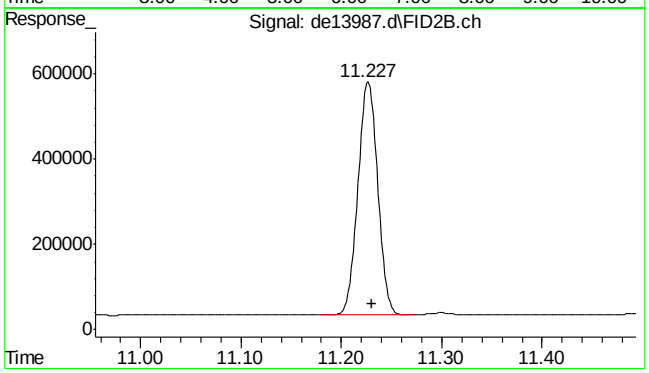
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.685 min
Response: 0
Conc: N.D.



#25 c-9

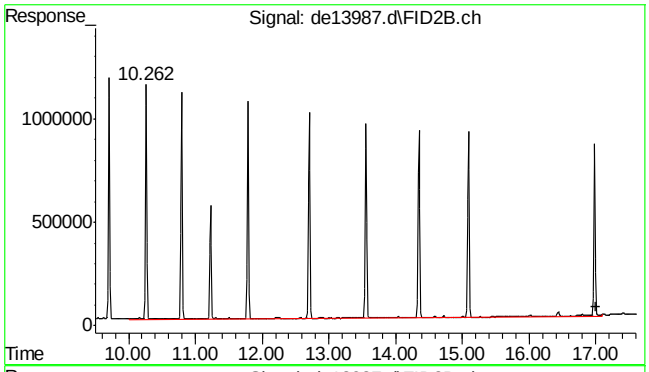
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 8757564
Conc: 118.55 µg/ml m



#35 1-chlorooctadecane

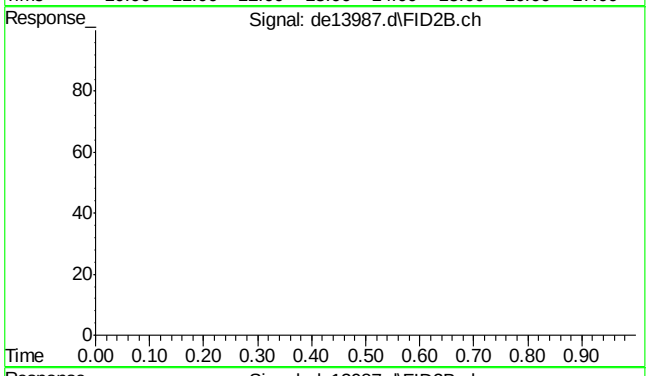
R.T.: 11.227 min
Delta R.T.: -0.003 min
Response: 746781
Conc: 13.20 µg/ml

SGS ACCUTEST MC45538



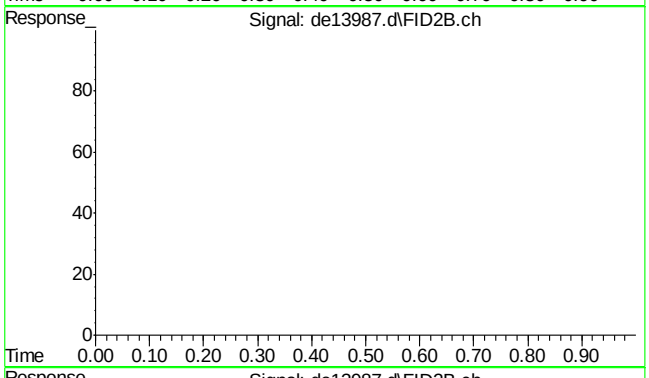
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 12089581
Conc: 180.96 µg/ml m



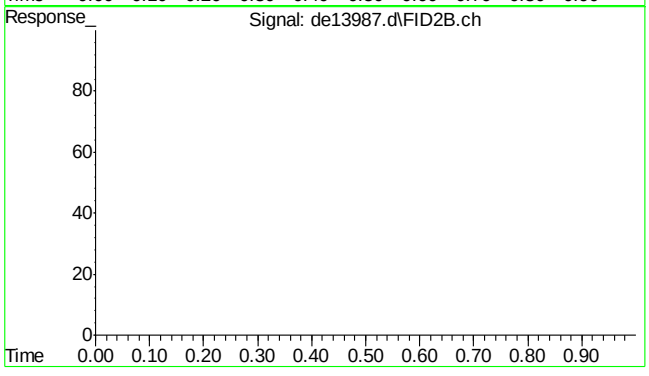
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



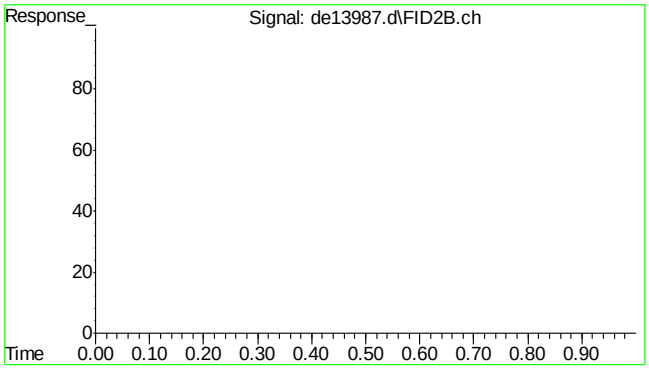
#43 bht

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.

9.4.1

9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
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Operator : thomasa
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Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
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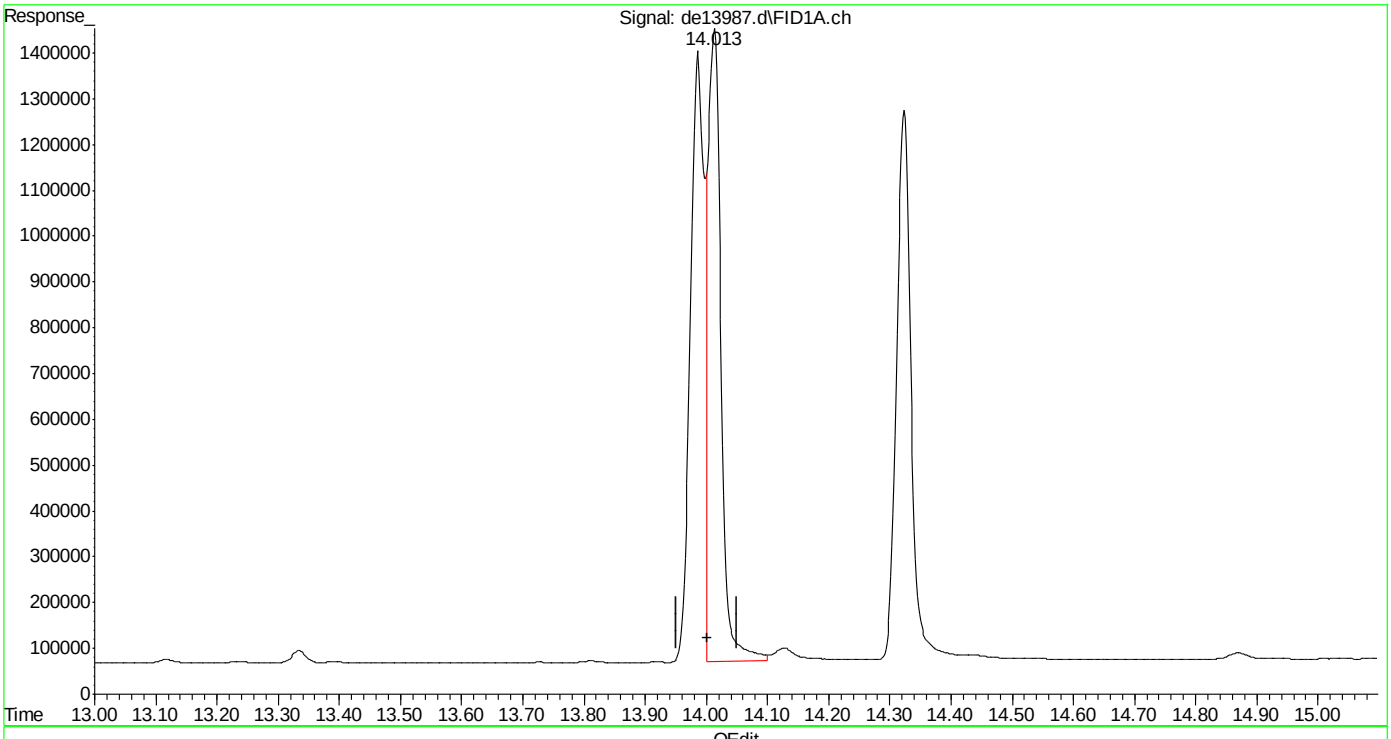
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.013min 20.090 µg/ml
response 1989002

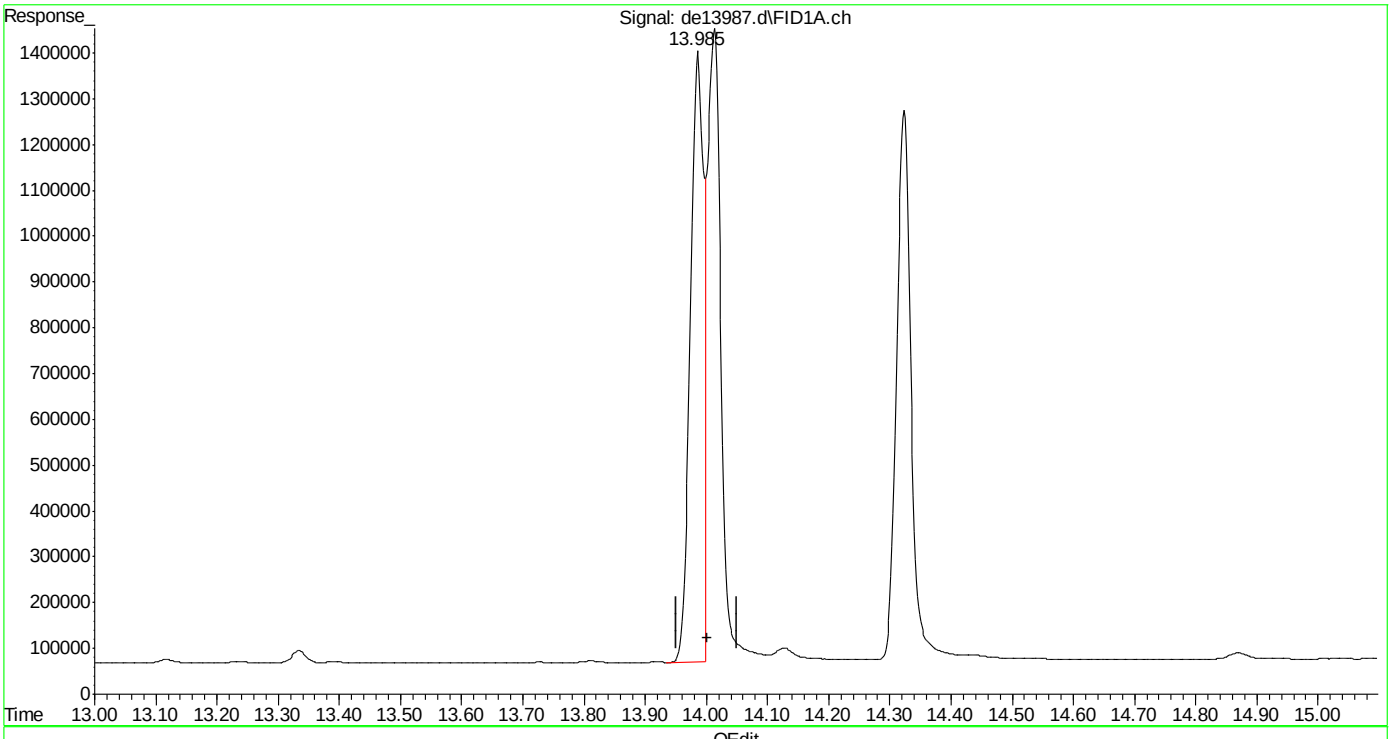
(+) = Expected Retention Time
EPH160429W.M Mon May 02 09:41:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13987.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 5:08 pm
Operator : thomasa
Sample : op47246-ms
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
13.985min 20.696 µg/ml m
response 2048980

(+) = Expected Retention Time
EPH160429W.M Mon May 02 09:41:08 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/02/16 10:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13988.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 5:36 pm
Operator : thomasa
Sample : op47246-msd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:52:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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	6.712	1490895	16.165 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 80.82%#	
6) s 2-bromonaphthalene	7.448	938607	14.957 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 74.78%#	
11) s o-terphenyl	9.982	1650288	16.112 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 80.56%#	
35) s 1-chlorooctadecane	11.227	844497	14.927 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 74.63%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	37181306	378.611 µg/mlm
2) naphthalene	5.263	1380169	13.382 µg/ml
3) 2-methylnaphthalene	6.162	1468950	14.334 µg/ml
5) acenaphthylene	7.277	1600016	15.904 µg/ml
7) acenaphthene	7.517	1943485	18.800 µg/ml
8) fluorene	8.167	1852236	18.237 µg/ml
9) phenanthrene	9.350	1962130	19.281 µg/ml
10) anthracene	9.407	2200983	22.689 µg/ml
12) fluoranthene	10.858	2219921	22.212 µg/ml
13) pyrene	11.118	2253192	22.207 µg/ml
14) benzo(a)anthracene	12.683	2150607	22.246 µg/ml
15) chrysene	12.730	2307649	23.707 µg/ml
16) benzo(B)fluoranthene	13.983	2205080	22.273 µg/mlm
17) benzo(k)fluoranthene	14.010	2239275	23.695 µg/mlm
18) benzo(a)pyrene	14.322	2057292	22.257 µg/ml
19) indeno(1,2,3-cd)pyrene	15.467	1477146	15.605 µg/ml
20) dibenzo(ah)anthracene	15.505	1868005	20.438 µg/ml
21) benzo(ghi)perylene	15.690	2101755	22.815 µg/ml
25) h c-9	2.648	9225581	124.886 µg/mlm
41) h c-36	17.008	12988084	194.414 µg/mlm

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

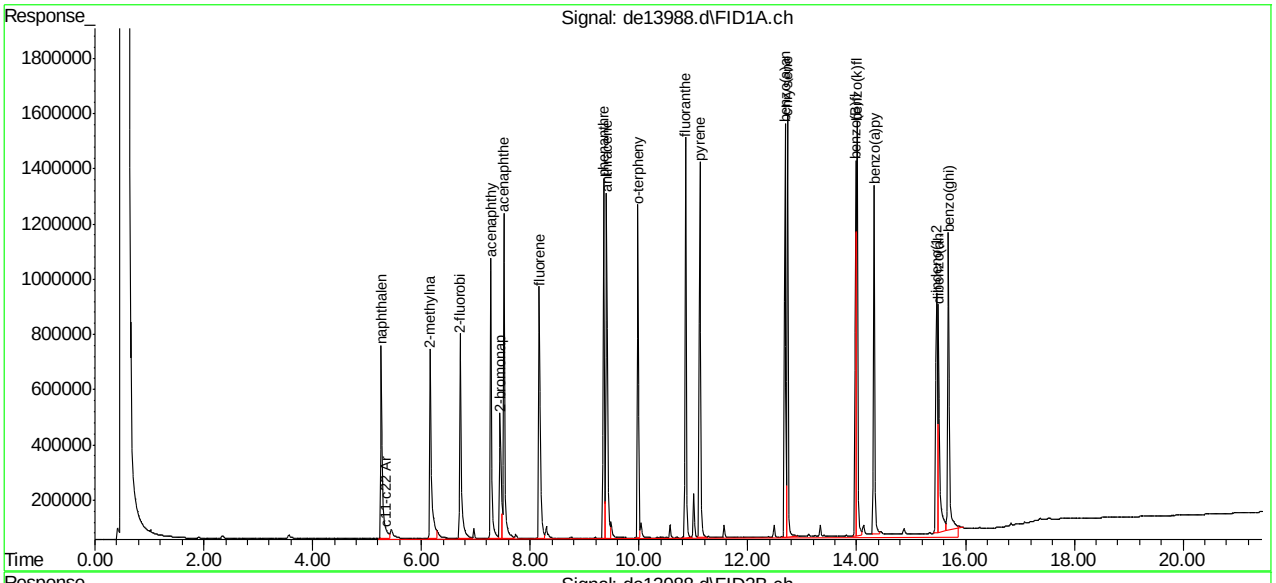
9.4.2
9

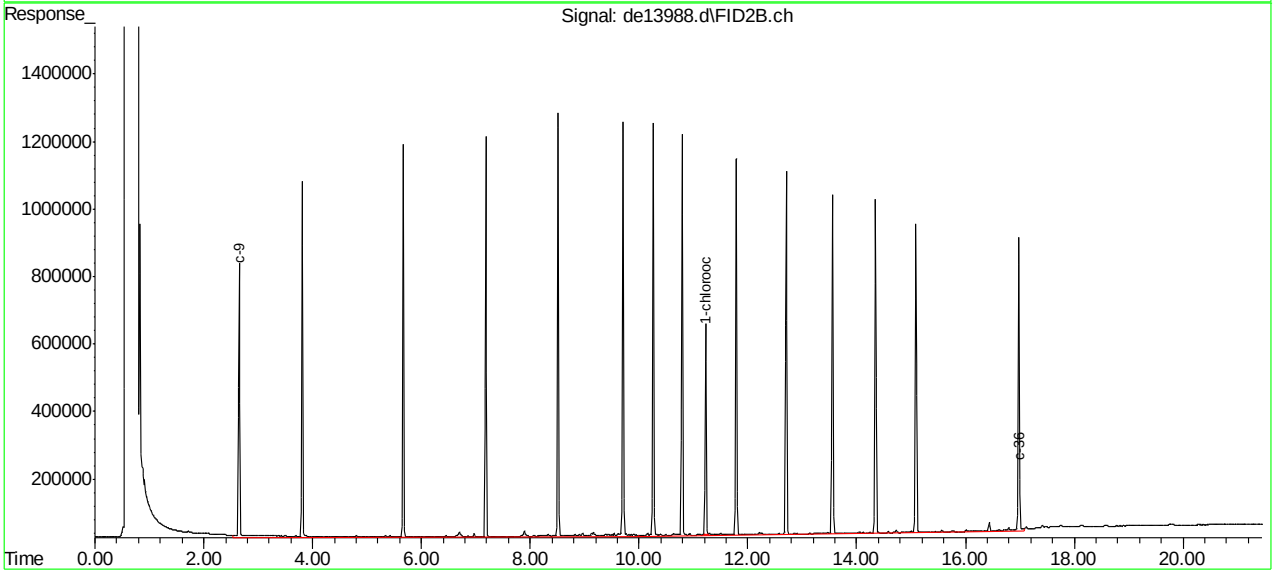
Quantitation Report (QT Reviewed)

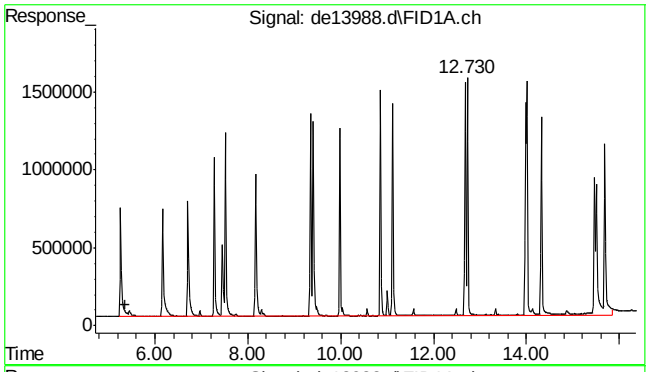
Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13988.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 5:36 pm
Operator : thomasa
Sample : op47246-msd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:52:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 2016
Response via : Initial Calibration
Integrator: RTE

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

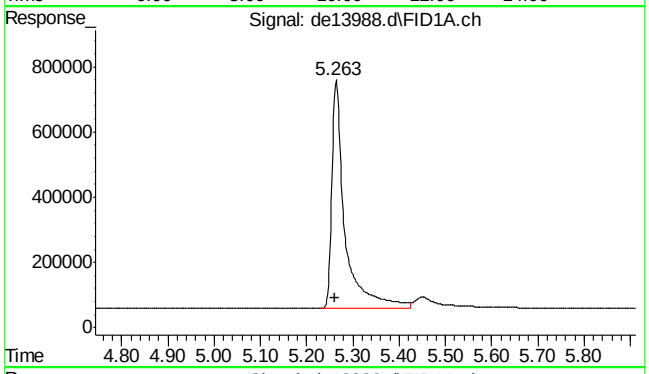






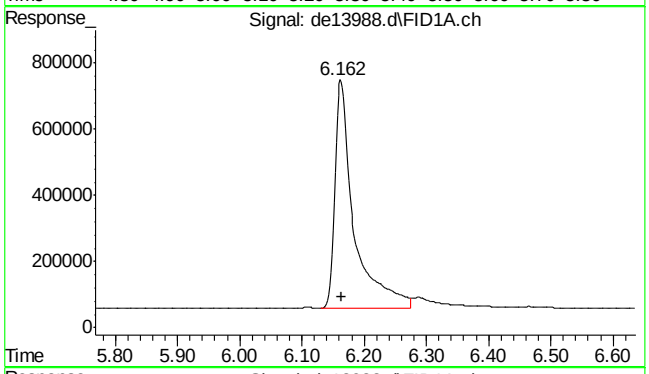
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 37181306
Conc: 378.61 µg/ml m



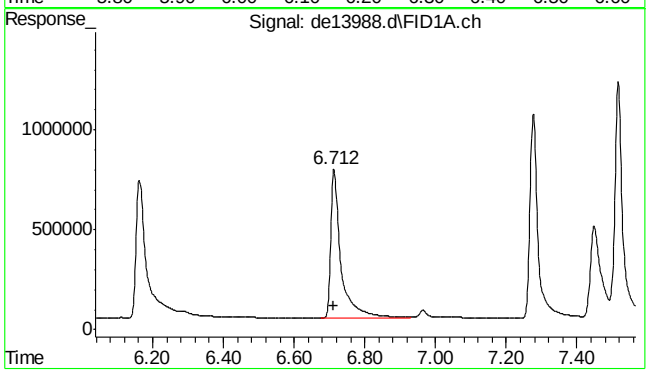
#2 naphthalene

R.T.: 5.263 min
Delta R.T.: 0.002 min
Response: 1380169
Conc: 13.38 µg/ml



#3 2-methylnaphthalene

R.T.: 6.162 min
Delta R.T.: -0.002 min
Response: 1468950
Conc: 14.33 µg/ml



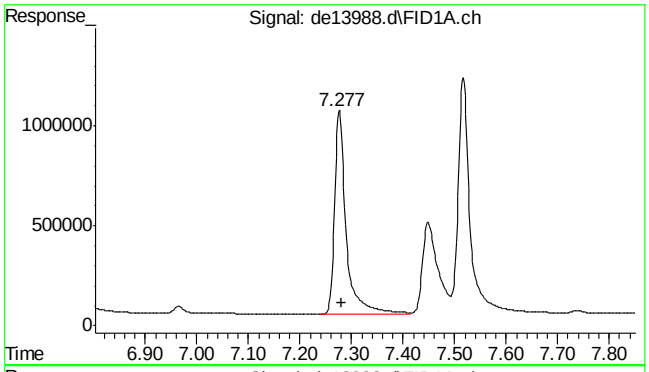
#4 2-fluorobiphenyl

R.T.: 6.712 min
Delta R.T.: -0.002 min
Response: 1490895
Conc: 16.16 µg/ml

9.4.2

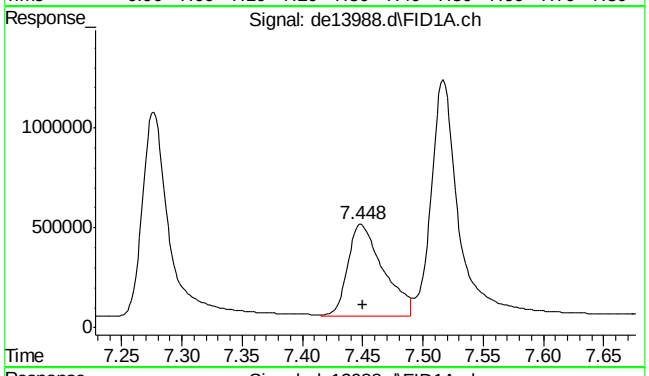
9

SGS ACCUTEST MC45538



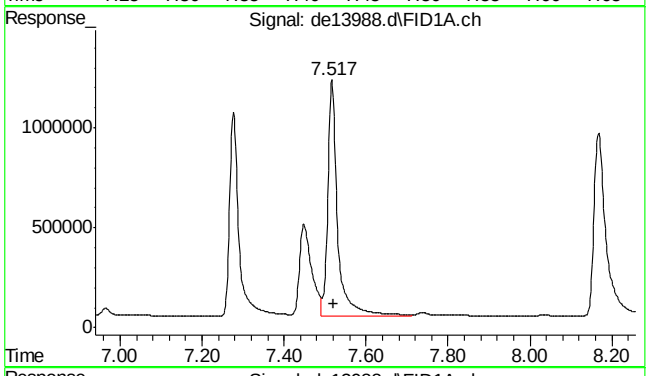
#5 acenaphthylene

R.T.: 7.277 min
Delta R.T.: -0.003 min
Response: 1600016
Conc: 15.90 µg/ml



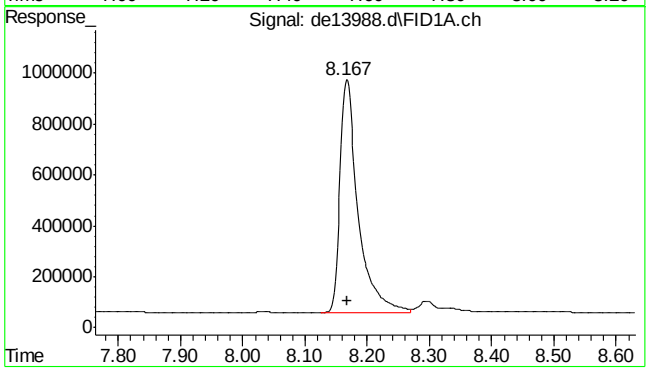
#6 2-bromonaphthalene

R.T.: 7.448 min
Delta R.T.: -0.002 min
Response: 938607
Conc: 14.96 µg/ml



#7 acenaphthene

R.T.: 7.517 min
Delta R.T.: -0.005 min
Response: 1943485
Conc: 18.80 µg/ml



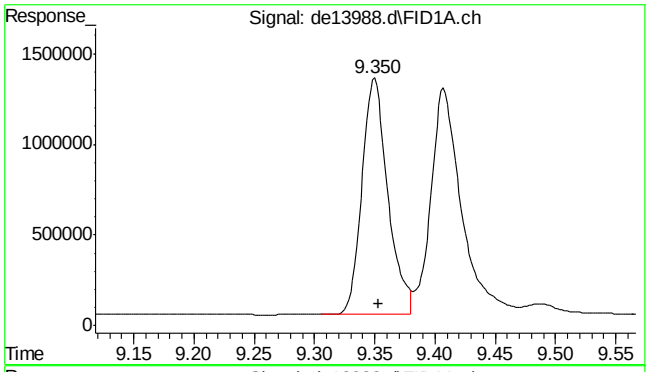
#8 fluorene

R.T.: 8.167 min
Delta R.T.: -0.002 min
Response: 1852236
Conc: 18.24 µg/ml

9.4.2

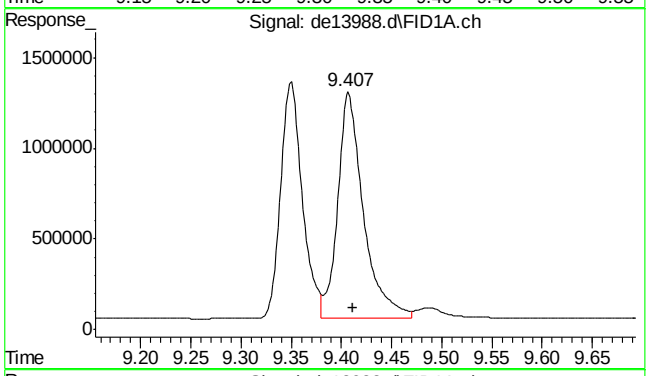
9

SGS ACCUTEST MC45538



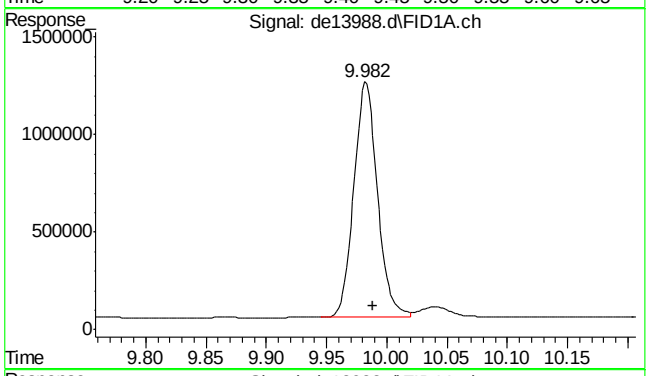
#9 phenanthrene

R.T.: 9.350 min
Delta R.T.: -0.003 min
Response: 1962130
Conc: 19.28 µg/ml



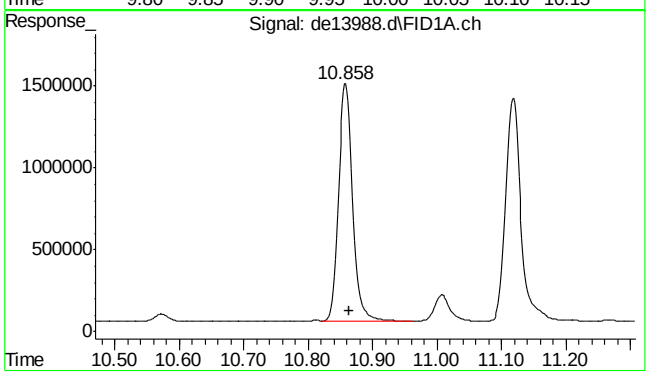
#10 anthracene

R.T.: 9.407 min
Delta R.T.: -0.005 min
Response: 2200983
Conc: 22.69 µg/ml



#11 o-terphenyl

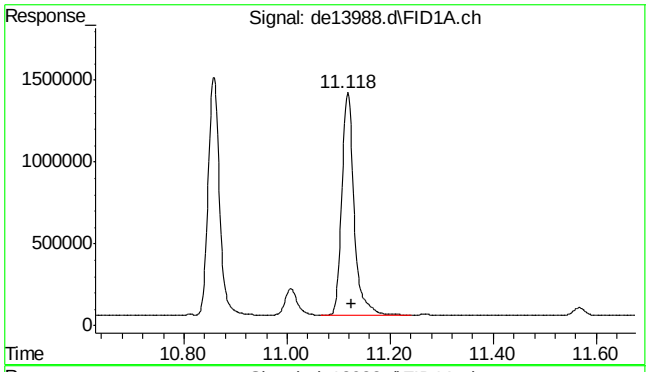
R.T.: 9.982 min
Delta R.T.: -0.007 min
Response: 1650288
Conc: 16.11 µg/ml



#12 fluoranthene

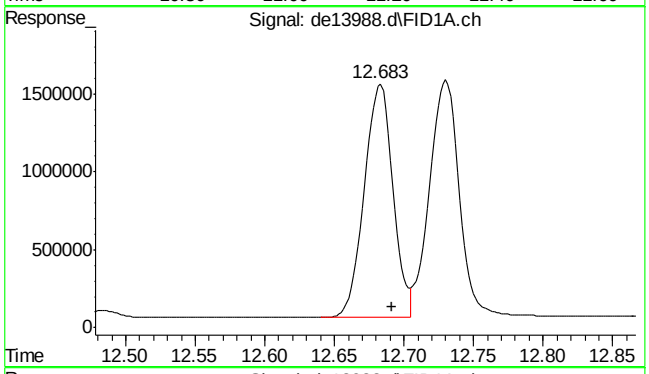
R.T.: 10.858 min
Delta R.T.: -0.005 min
Response: 2219921
Conc: 22.21 µg/ml

SGS ACCUTEST MC45538



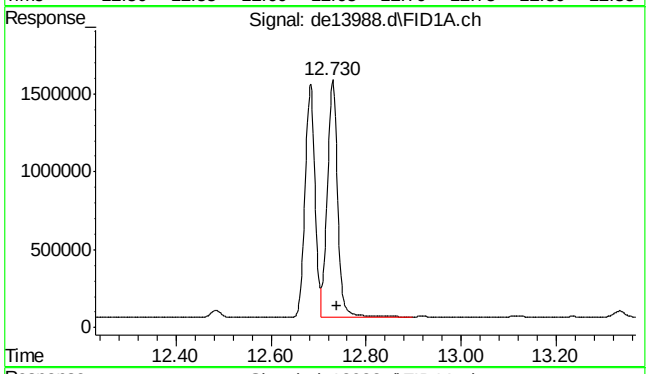
#13 pyrene

R.T.: 11.118 min
Delta R.T.: -0.007 min
Response: 2253192
Conc: 22.21 µg/ml



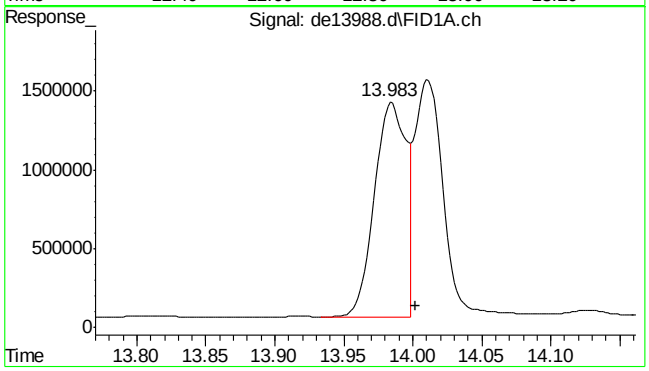
#14 benzo(a)anthracene

R.T.: 12.683 min
Delta R.T.: -0.008 min
Response: 2150607
Conc: 22.25 µg/ml



#15 chrysene

R.T.: 12.730 min
Delta R.T.: -0.008 min
Response: 2307649
Conc: 23.71 µg/ml



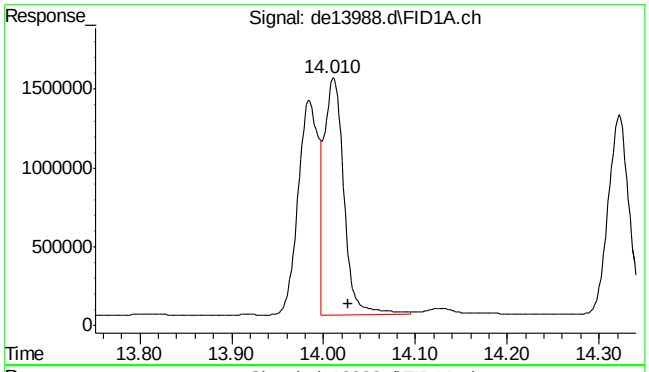
#16 benzo(B)fluoranthene

R.T.: 13.983 min
Delta R.T.: -0.018 min
Response: 2205080
Conc: 22.27 µg/ml m

9.4.2

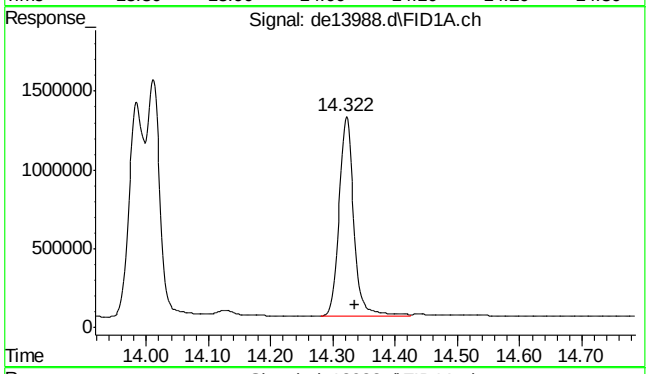
9

SGS ACCUTEST MC45538



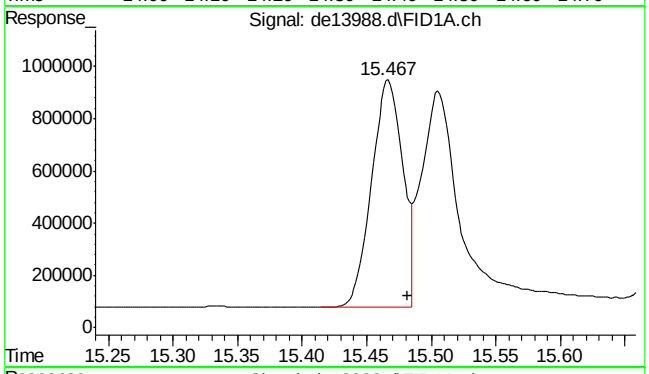
#17 benzo(k)fluoranthene

R.T.: 14.010 min
Delta R.T.: -0.017 min
Response: 2239275
Conc: 23.70 µg/ml m



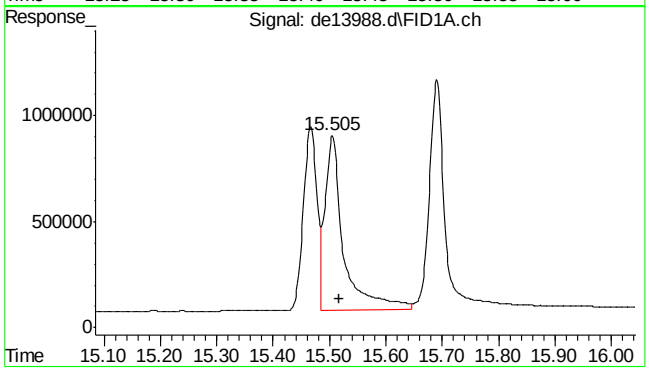
#18 benzo(a)pyrene

R.T.: 14.322 min
Delta R.T.: -0.013 min
Response: 2057292
Conc: 22.26 µg/ml



#19 indeno(1,2,3-cd)pyrene

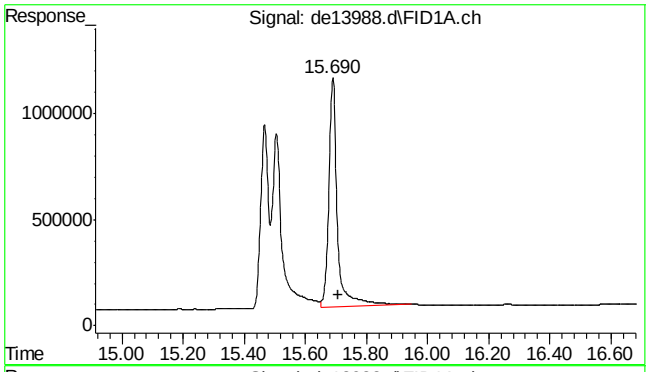
R.T.: 15.467 min
Delta R.T.: -0.015 min
Response: 1477146
Conc: 15.61 µg/ml



#20 dibenzo(ah)anthracene

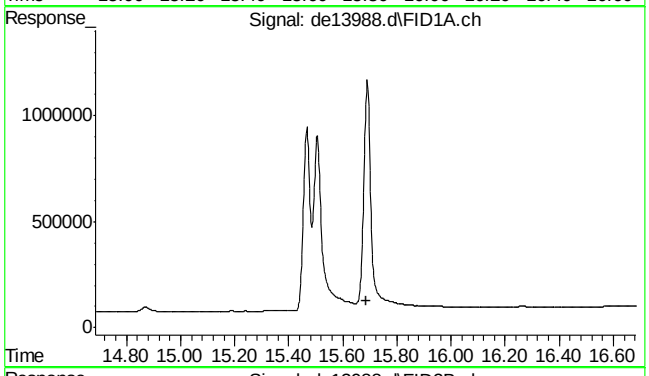
R.T.: 15.505 min
Delta R.T.: -0.012 min
Response: 1868005
Conc: 20.44 µg/ml

SGS ACCUTEST MC45538



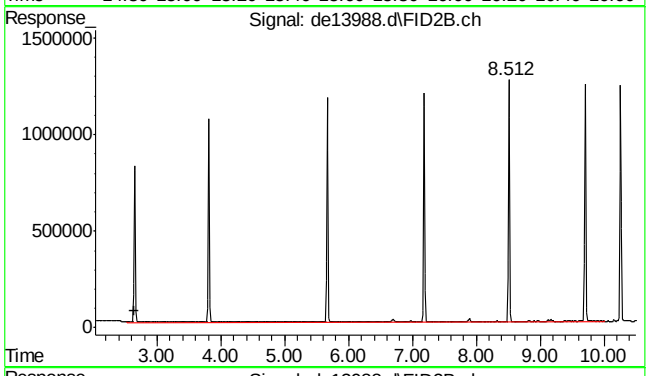
#21 benzo(ghi)perylene

R.T.: 15.690 min
Delta R.T.: -0.017 min
Response: 2101755
Conc: 22.81 µg/ml



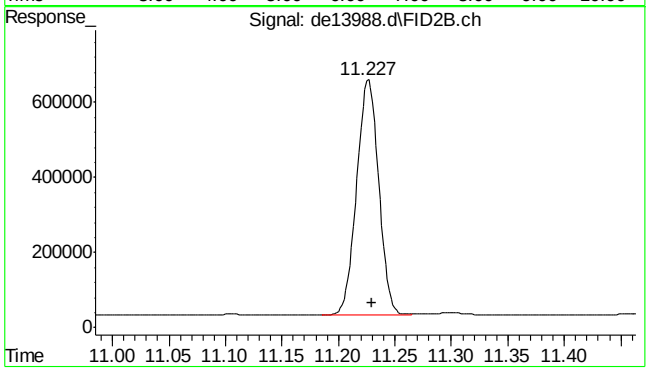
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.685 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 9225581
Conc: 124.89 µg/ml m



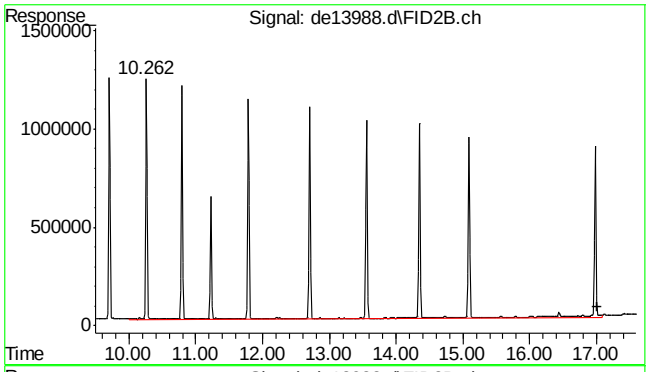
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.003 min
Response: 844497
Conc: 14.93 µg/ml

9.4.2

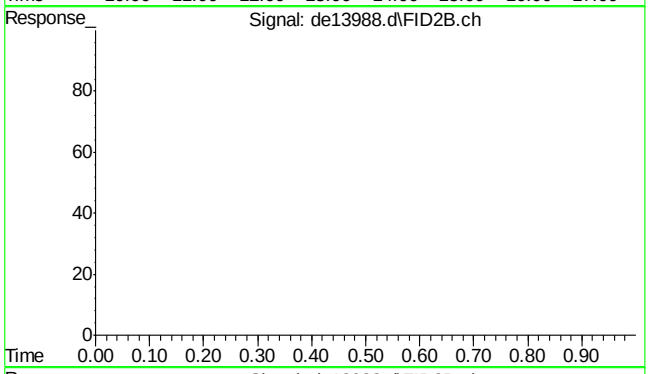
9

SGS ACCUTEST MC45538



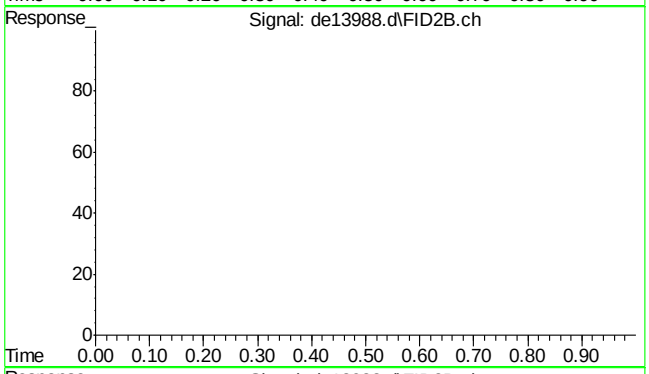
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 12988084
Conc: 194.41 µg/ml m



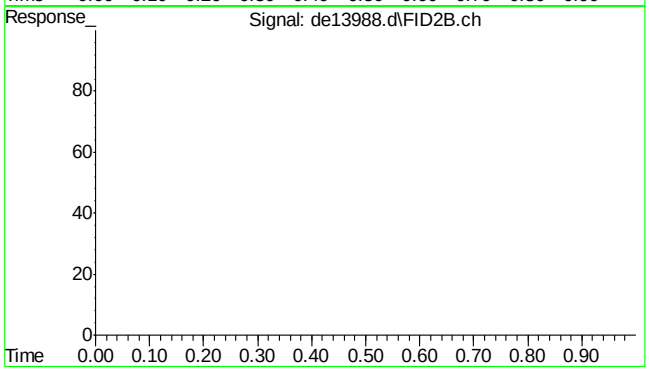
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

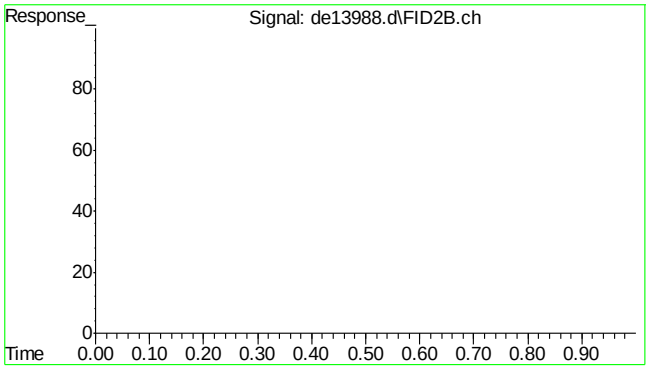
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.2

9

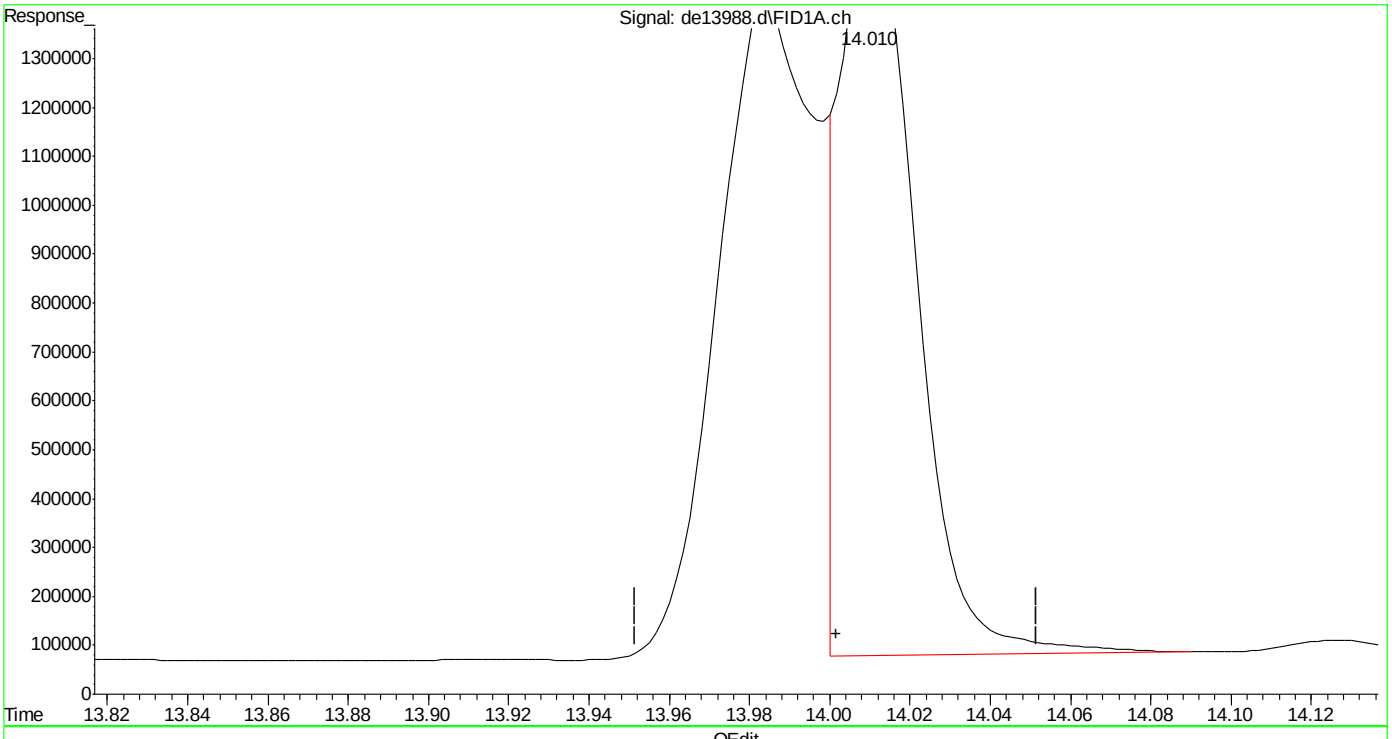
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13988.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 5:36 pm
Operator : thomasa
Sample : op47246-msd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
14.010min 19.665 µg/ml
response 1946926

(+) = Expected Retention Time

EPH160429W.M Mon May 02 09:49:20 2016

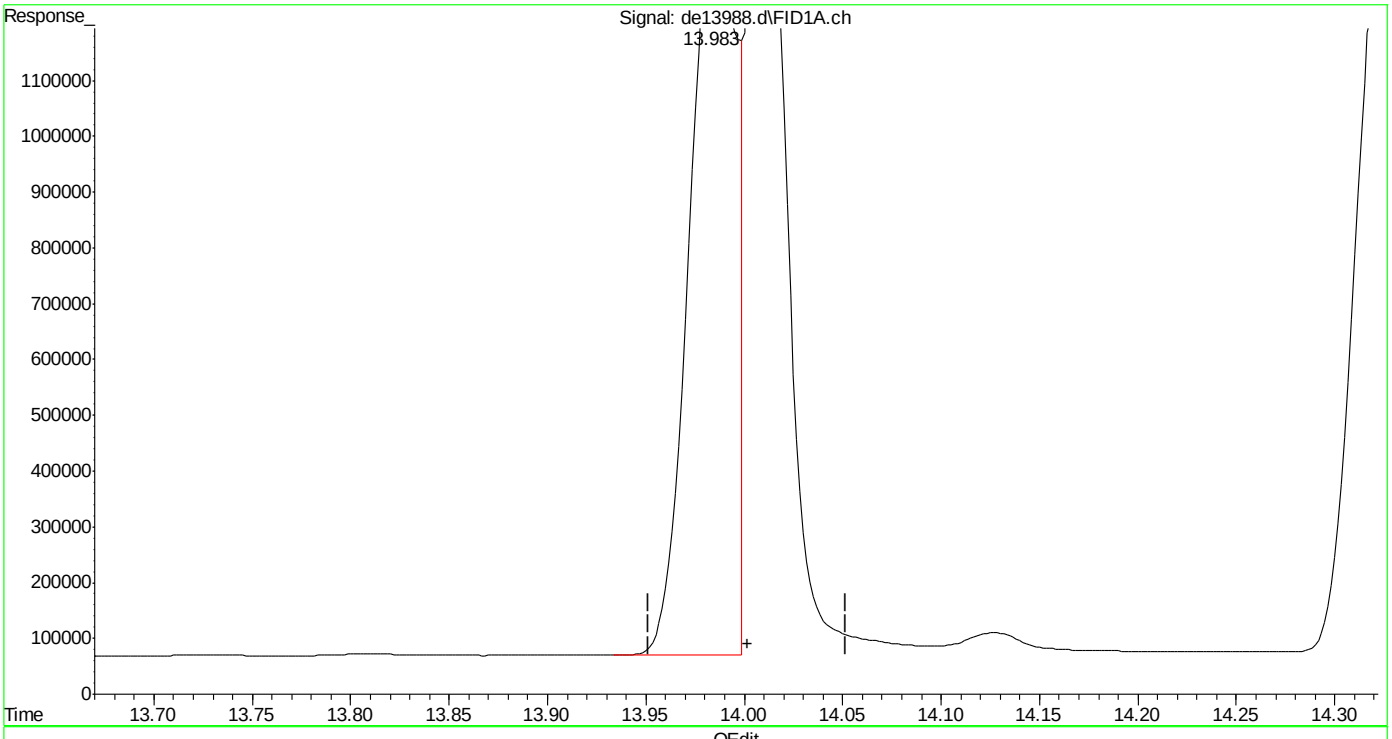
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13988.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 5:36 pm
Operator : thomasa
Sample : op47246-msd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
13.983min 22.273 µg/ml m
response 2205080

(+) = Expected Retention Time
EPH160429W.M Mon May 02 09:50:32 2016

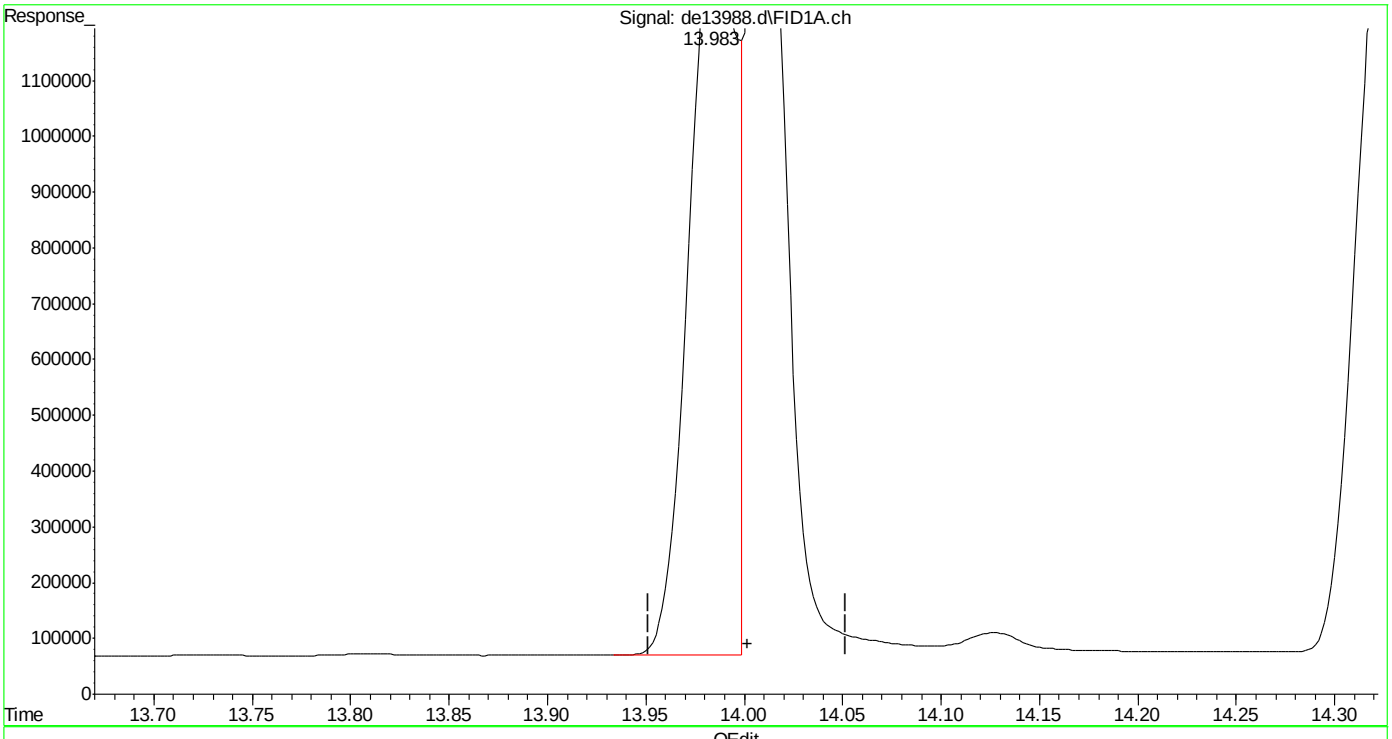
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13988.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 5:36 pm
Operator : thomasa
Sample : op47246-msd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
13.983min 22.273 µg/ml m
response 2205080

(+) = Expected Retention Time

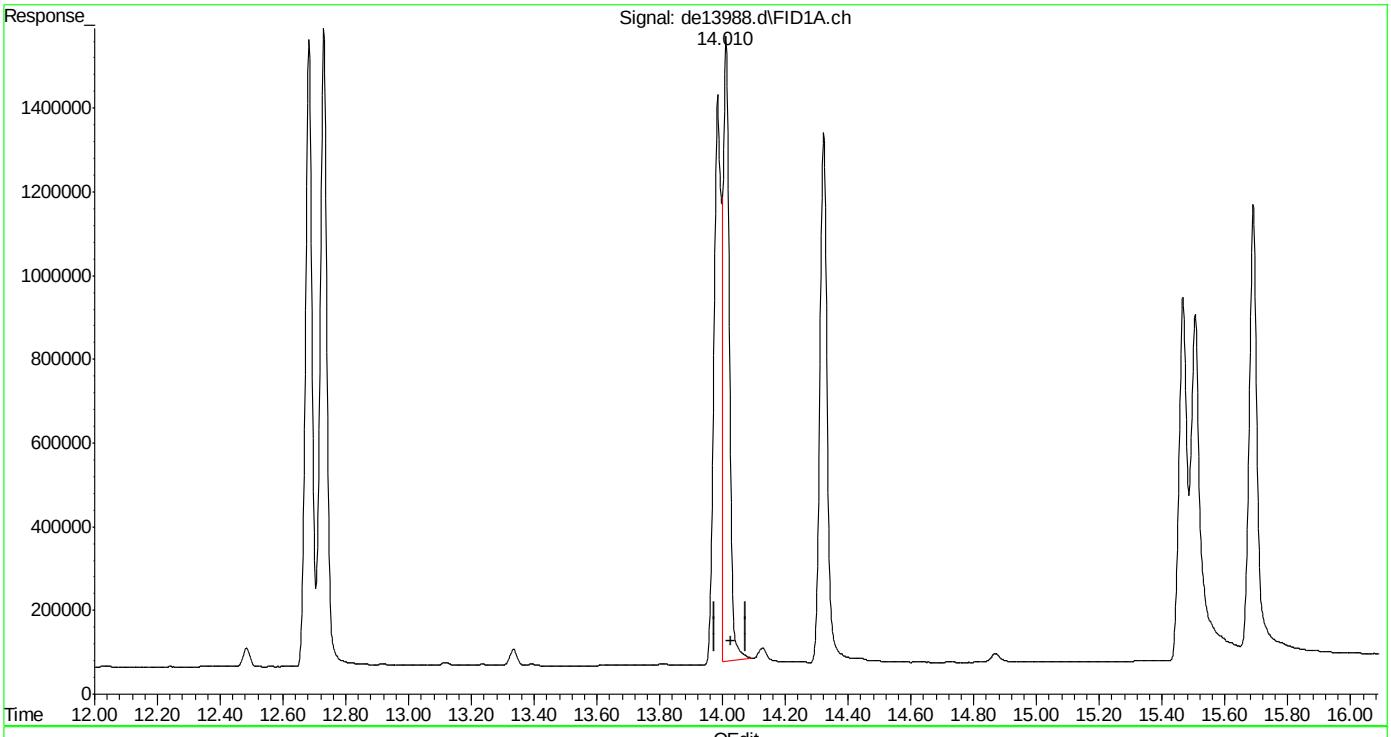
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13988.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 5:36 pm
Operator : thomasa
Sample : op47246-msd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
14.010min 20.602 µg/ml
response 1946926

(+) = Expected Retention Time
EPH160429W.M Mon May 02 09:50:49 2016

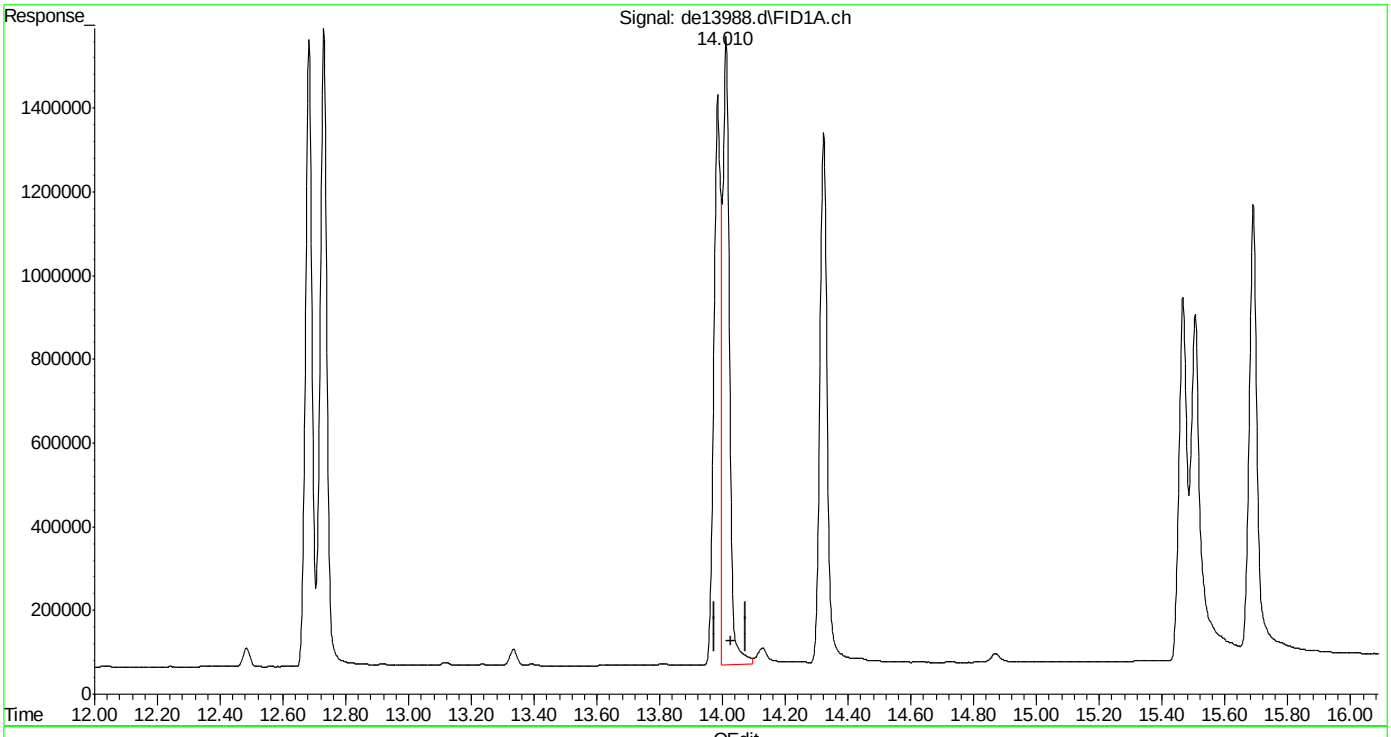
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13988.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 5:36 pm
Operator : thomasa
Sample : op47246-msd
Misc : op47246,gde781,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
14.010min 23.695 µg/ml m
response 2239275

(+) = Expected Retention Time

EPH160429W.M Mon May 02 09:51:00 2016

SGS ACCUTEST MC45538

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/04/16 14:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:56:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	6.695	1469756	15.936 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 79.68%#		
6) s 2-bromonaphthalene	7.430	912218	14.536 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 72.68%#		
11) s o-terphenyl	9.968	1735428	16.943 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 84.72%#		
35) s 1-chlorooctadecane	11.225	985582	17.421 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 87.11%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	38957029	396.692 µg/mlm
2) naphthalene	5.248	1456755	14.124 µg/ml
3) 2-methylnaphthalene	6.145	1555531	15.179 µg/ml
5) acenaphthylene	7.260	1689238	16.791 µg/ml
7) acenaphthene	7.500	1827563	17.679 µg/ml
8) fluorene	8.147	1840292	18.119 µg/ml
9) phenanthrene	9.330	1930308	18.969 µg/ml
10) anthracene	9.390	2179104	22.463 µg/ml
12) fluoranthene	10.838	2141752	21.430 µg/ml
13) pyrene	11.097	2163252	21.321 µg/ml
14) benzo(a)anthracene	12.663	2136794	22.103 µg/ml
15) chrysene	12.710	2137589	21.960 µg/ml
16) benzo(B)fluoranthene	13.963	2238034	22.606 µg/mlm
17) benzo(k)fluoranthene	13.992	2070081	21.905 µg/mlm
18) benzo(a)pyrene	14.298	2131652	23.061 µg/ml
19) indeno(1,2,3-cd)pyrene	15.443	2134800	22.553 µg/mlm
20) dibenzo(ah)anthracene	15.482	2078712	22.743 µg/mlm
21) benzo(ghi)perylene	15.665	2123876	23.055 µg/ml
25) h c-9	2.648	9391732	127.135 µg/mlm
41) h c-36	17.008	14413863	215.756 µg/mlm

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

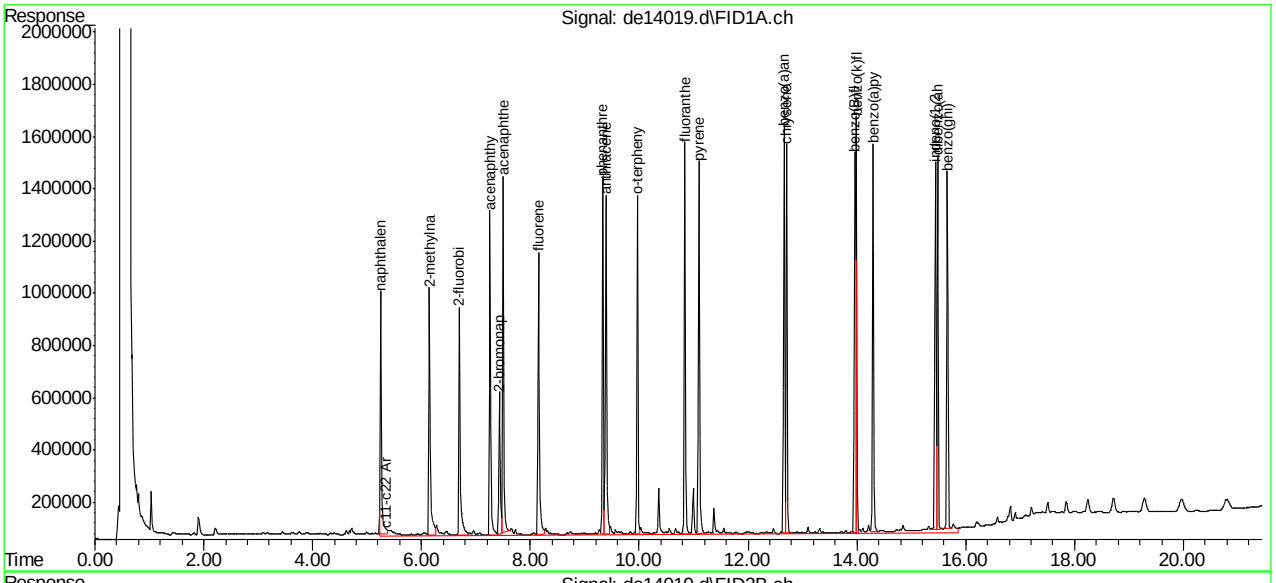
9.4.3
9

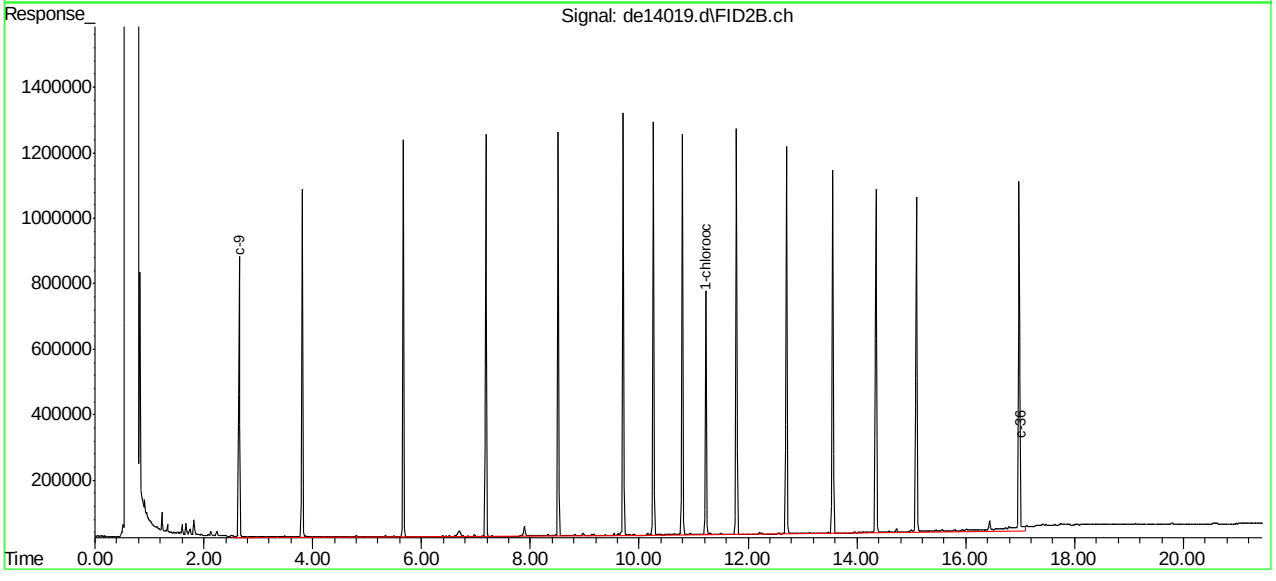
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

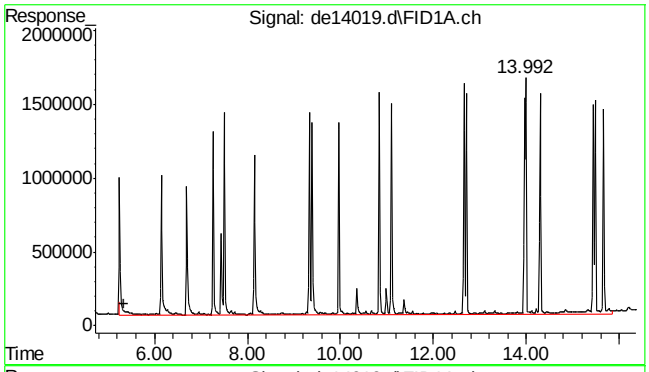
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:56:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 2016
Response via : Initial Calibration
Integrator: RTE

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



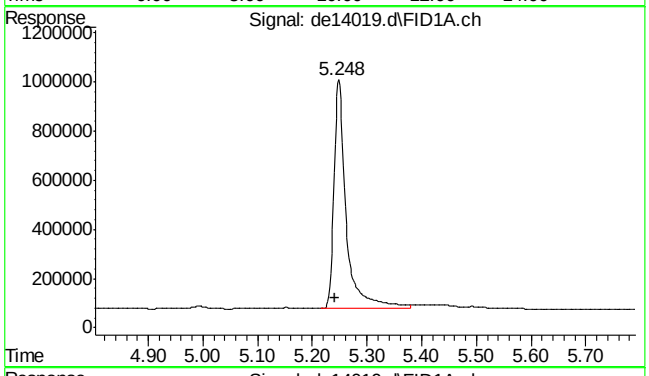


EPH160504W.M Wed May 04 13:27:37 2016 Page: 2



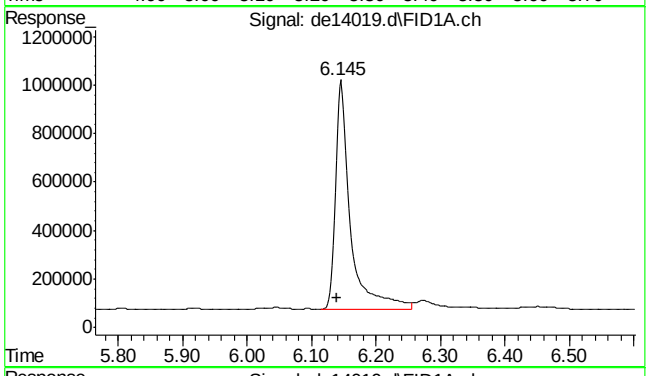
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 38957029
Conc: 396.69 µg/ml m



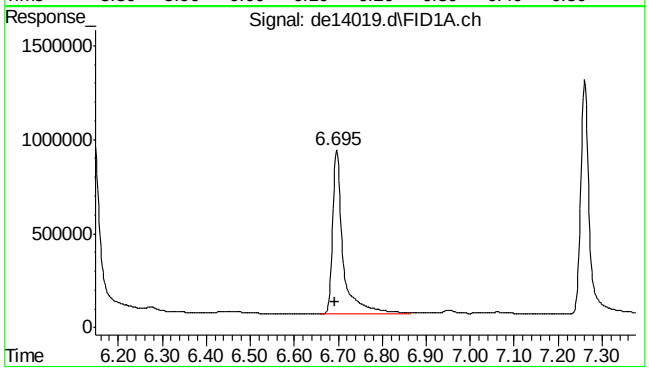
#2 naphthalene

R.T.: 5.248 min
Delta R.T.: 0.007 min
Response: 1456755
Conc: 14.12 µg/ml



#3 2-methylnaphthalene

R.T.: 6.145 min
Delta R.T.: 0.005 min
Response: 1555531
Conc: 15.18 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.695 min
Delta R.T.: 0.003 min
Response: 1469756
Conc: 15.94 µg/ml

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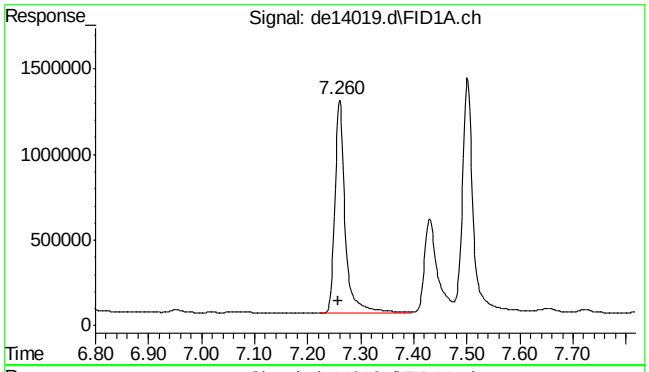
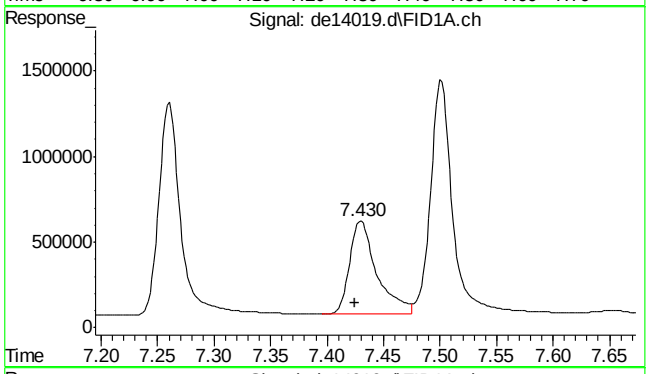


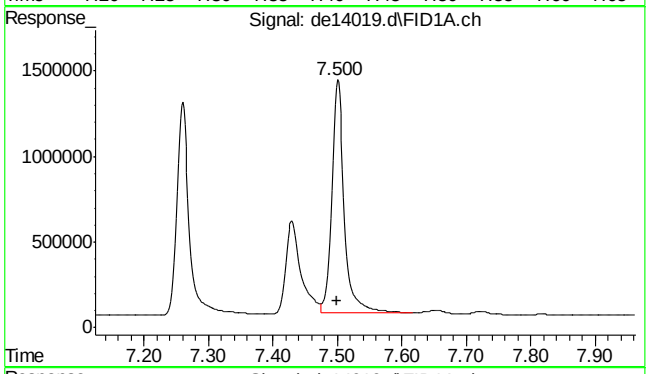
#5 acenaphthylene

R.T.: 7.260 min
Delta R.T.: 0.003 min
Response: 1689238
Conc: 16.79 µg/ml



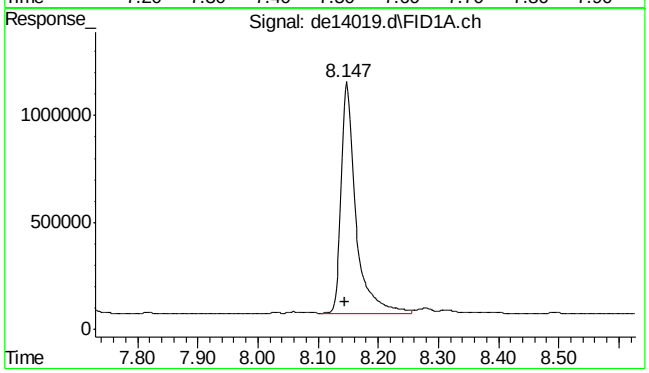
#6 2-bromonaphthalene

R.T.: 7.430 min
Delta R.T.: 0.005 min
Response: 912218
Conc: 14.54 µg/ml



#7 acenaphthene

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 1827563
Conc: 17.68 µg/ml



#8 fluorene

R.T.: 8.147 min
Delta R.T.: 0.002 min
Response: 1840292
Conc: 18.12 µg/ml

9.4.3

9

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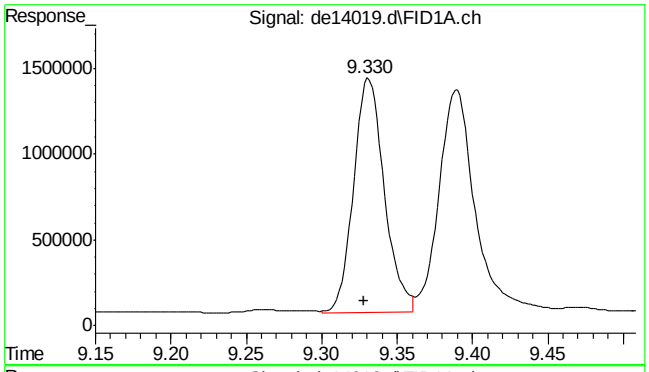
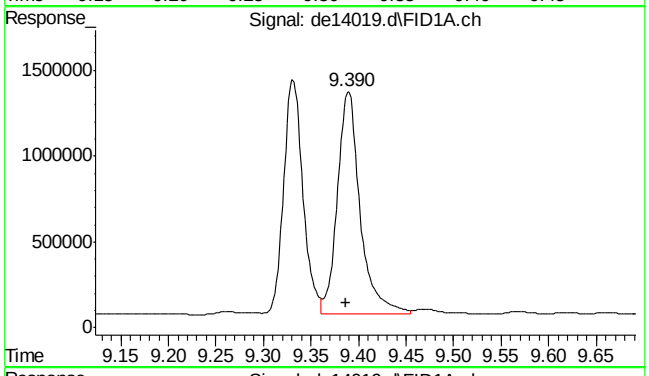


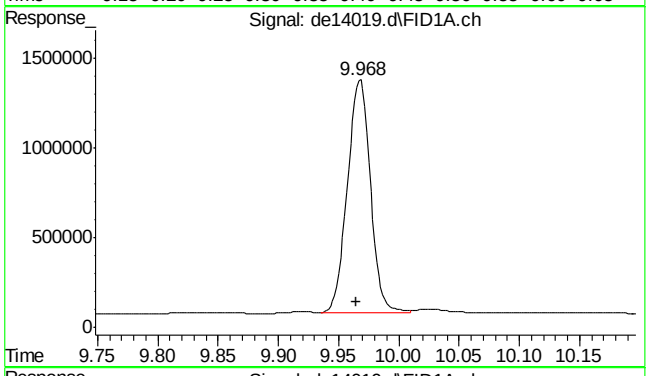
#9 phenanthrene

R.T.: 9.330 min
Delta R.T.: 0.002 min
Response: 1930308
Conc: 18.97 µg/ml



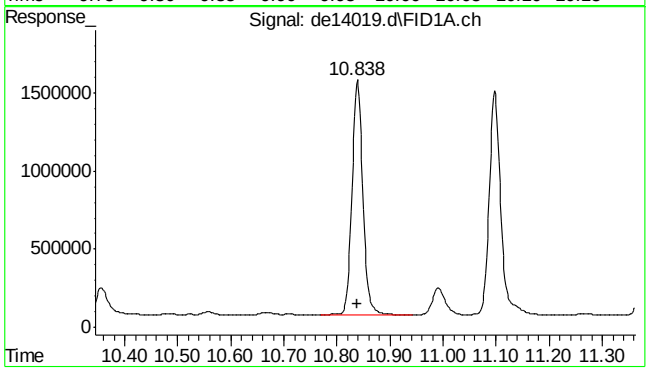
#10 anthracene

R.T.: 9.390 min
Delta R.T.: 0.003 min
Response: 2179104
Conc: 22.46 µg/ml



#11 o-terphenyl

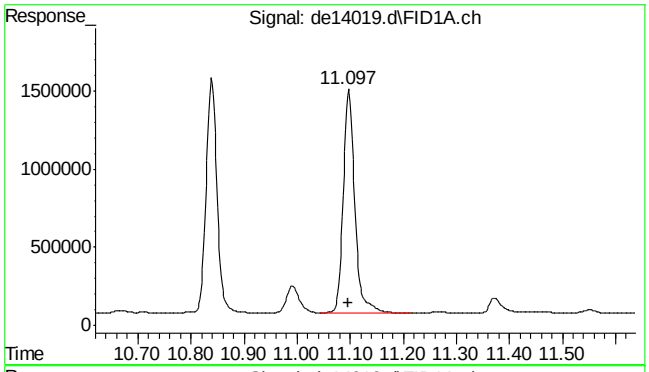
R.T.: 9.968 min
Delta R.T.: 0.003 min
Response: 1735428
Conc: 16.94 µg/ml



#12 fluoranthene

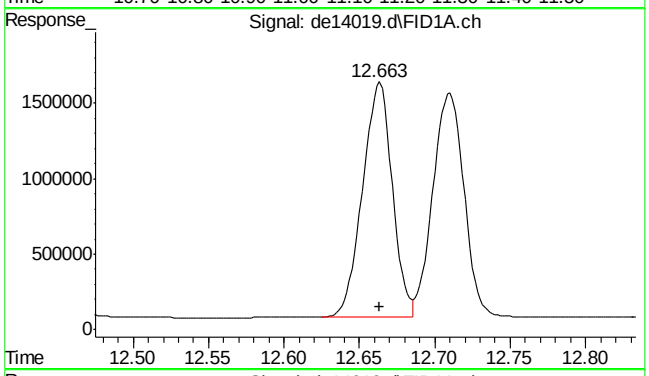
R.T.: 10.838 min
Delta R.T.: 0.000 min
Response: 2141752
Conc: 21.43 µg/ml

SGS ACCUTEST MC45538



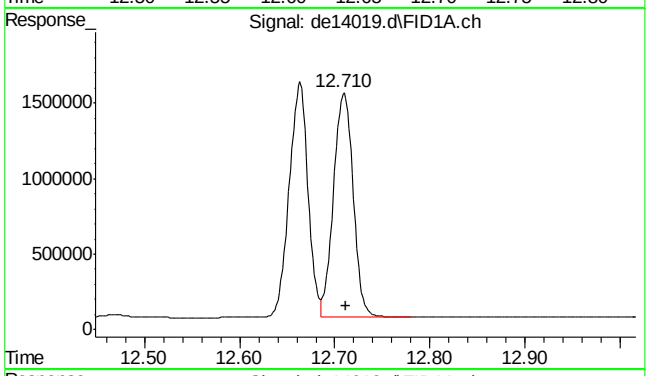
#13 pyrene

R.T.: 11.097 min
Delta R.T.: 0.000 min
Response: 2163252
Conc: 21.32 µg/ml



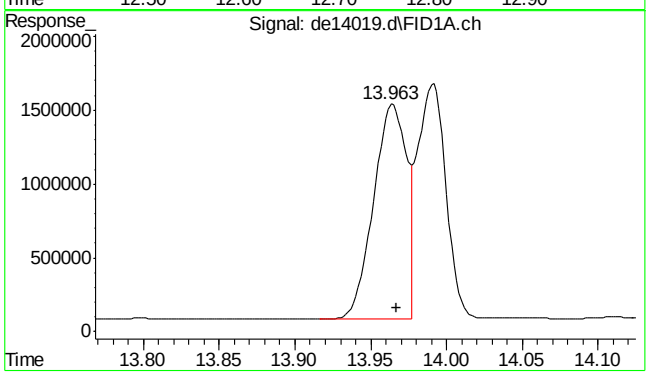
#14 benzo(a)anthracene

R.T.: 12.663 min
Delta R.T.: 0.000 min
Response: 2136794
Conc: 22.10 µg/ml



#15 chrysene

R.T.: 12.710 min
Delta R.T.: -0.002 min
Response: 2137589
Conc: 21.96 µg/ml



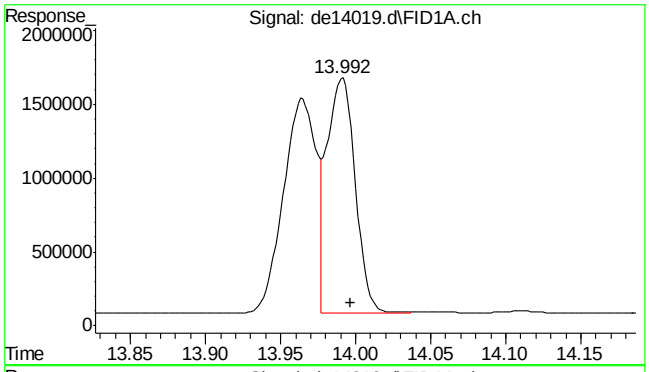
#16 benzo(B)fluoranthene

R.T.: 13.963 min
Delta R.T.: -0.003 min
Response: 2238034
Conc: 22.61 µg/ml m

9.4.3

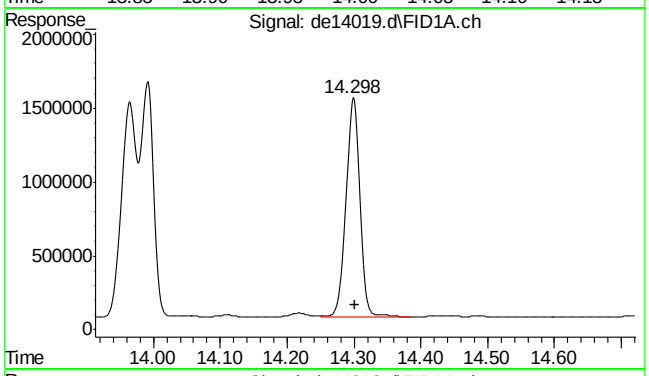
9

SGS ACCUTEST MC45538



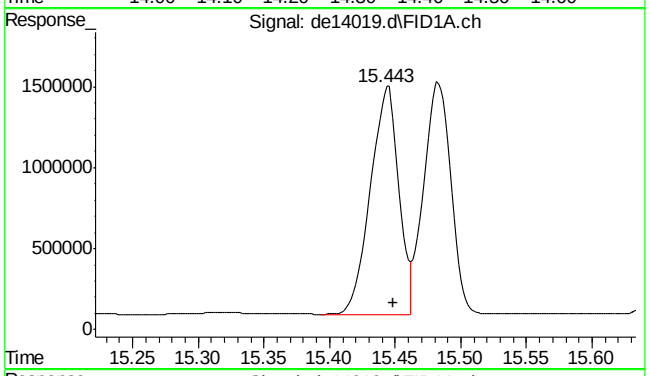
#17 benzo(k)fluoranthene

R.T.: 13.992 min
Delta R.T.: -0.005 min
Response: 2070081
Conc: 21.91 µg/ml m



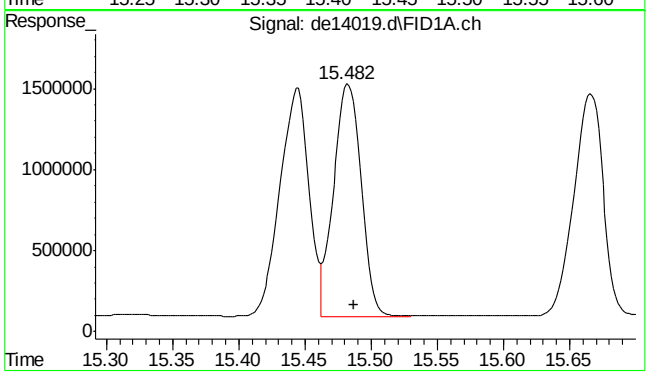
#18 benzo(a)pyrene

R.T.: 14.298 min
Delta R.T.: -0.003 min
Response: 2131652
Conc: 23.06 µg/ml



#19 indeno(1,2,3-cd)pyrene

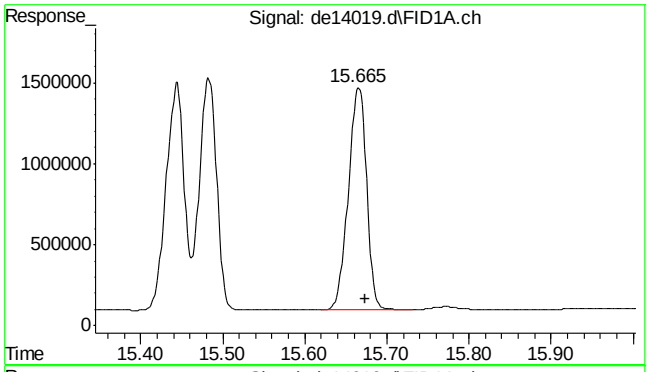
R.T.: 15.443 min
Delta R.T.: -0.005 min
Response: 2134800
Conc: 22.55 µg/ml m



#20 dibenzo(ah)anthracene

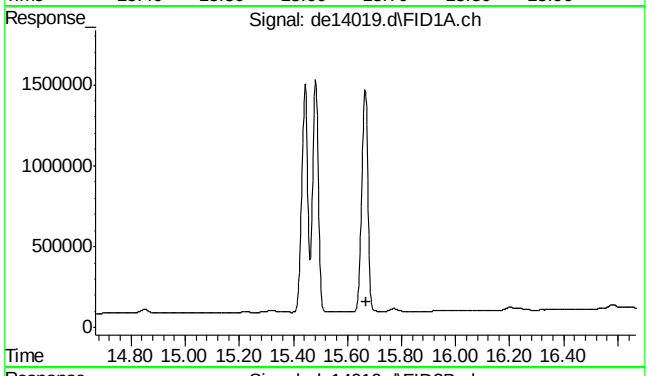
R.T.: 15.482 min
Delta R.T.: -0.005 min
Response: 2078712
Conc: 22.74 µg/ml m

SGS ACCUTEST MC45538



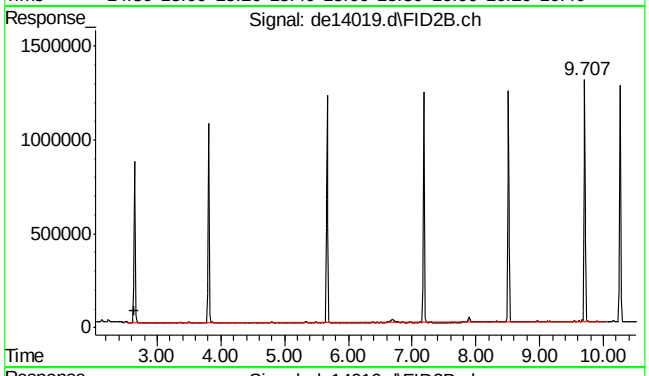
#21 benzo(ghi)perylene

R.T.: 15.665 min
Delta R.T.: -0.008 min
Response: 2123876
Conc: 23.05 µg/ml



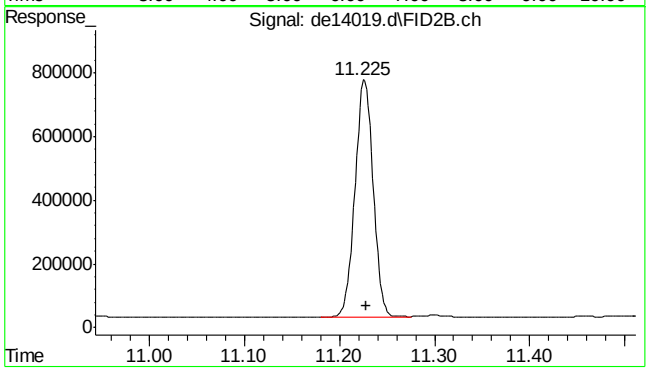
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

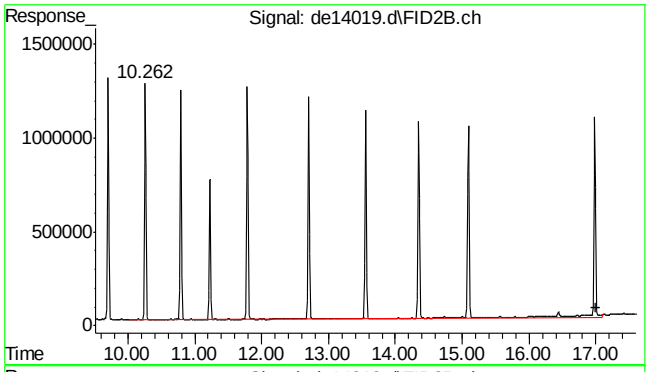
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 9391732
Conc: 127.13 µg/ml m



#35 1-chlorooctadecane

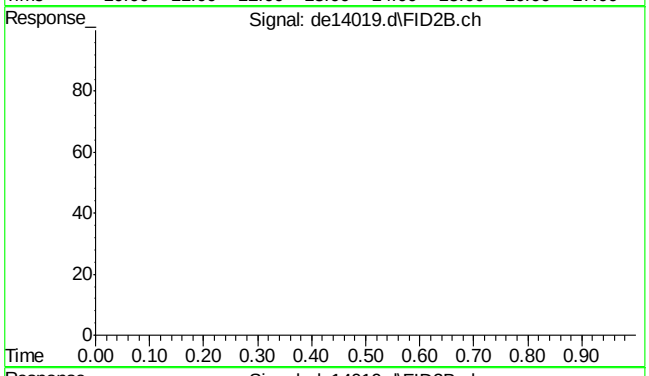
R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 985582
Conc: 17.42 µg/ml

SGS ACCUTEST MC45538



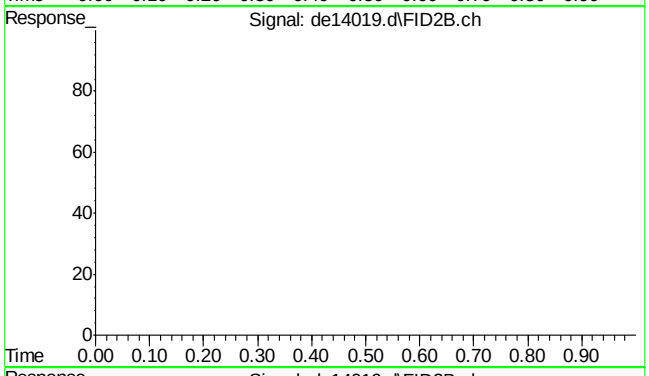
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 14413863
Conc: 215.76 µg/ml m



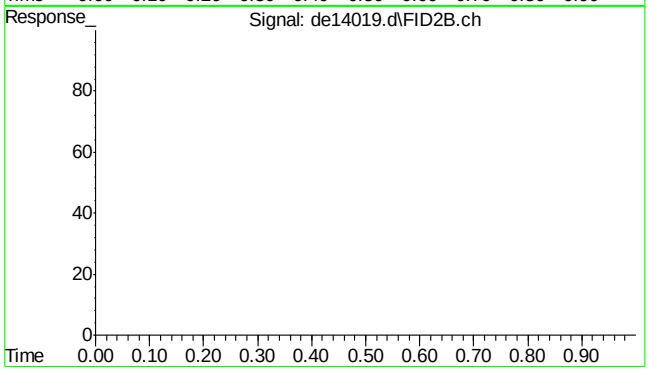
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



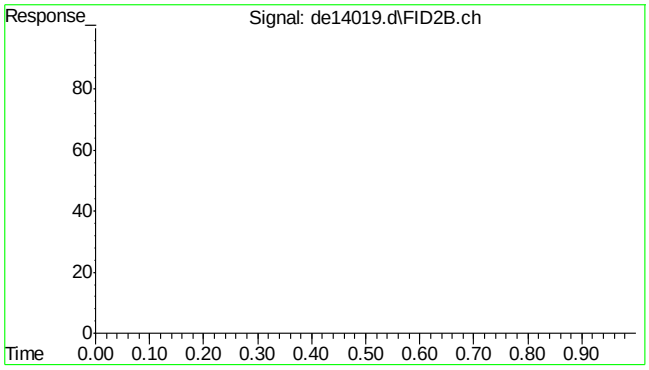
#43 bht

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.

9.4.3

9

de14019.d EPH160504W.M Wed May 04 13:27:38 2016 Page 11

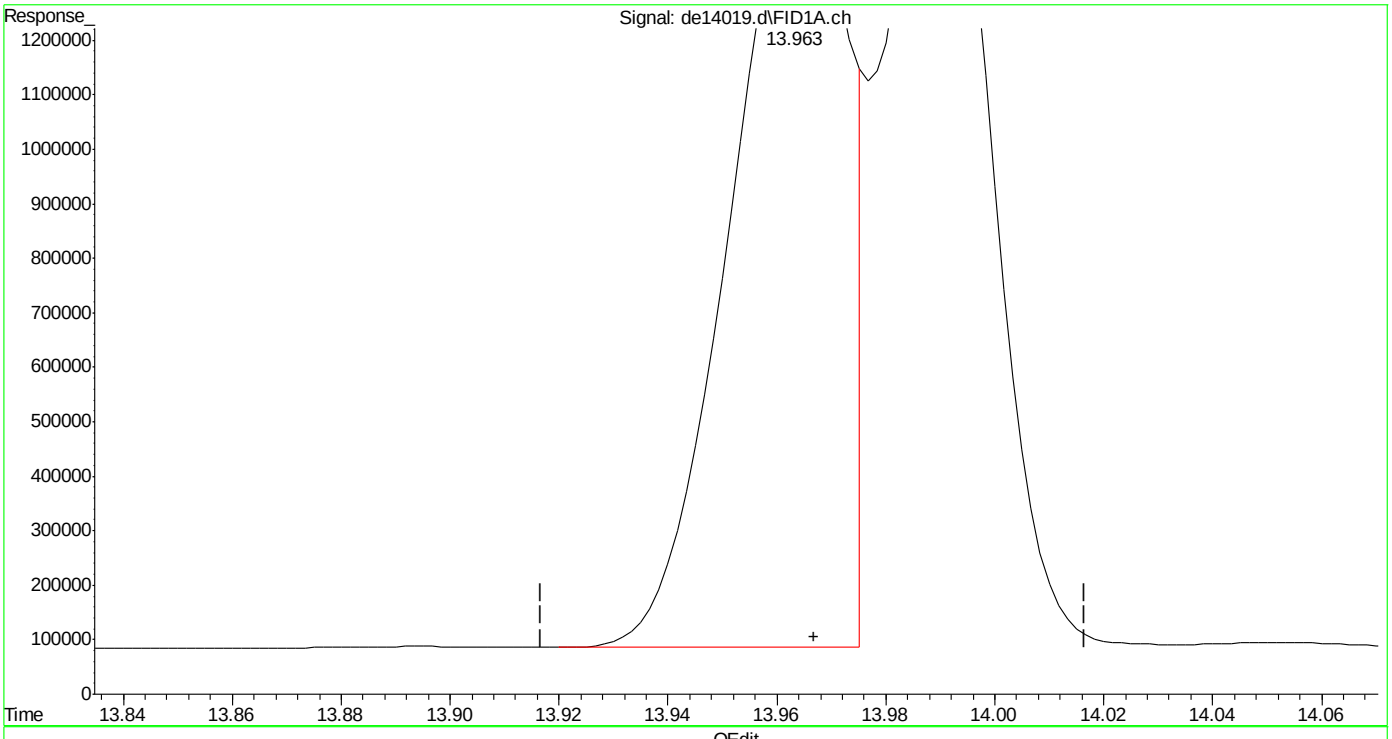
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
13.963min 21.530 µg/ml
response 2131544

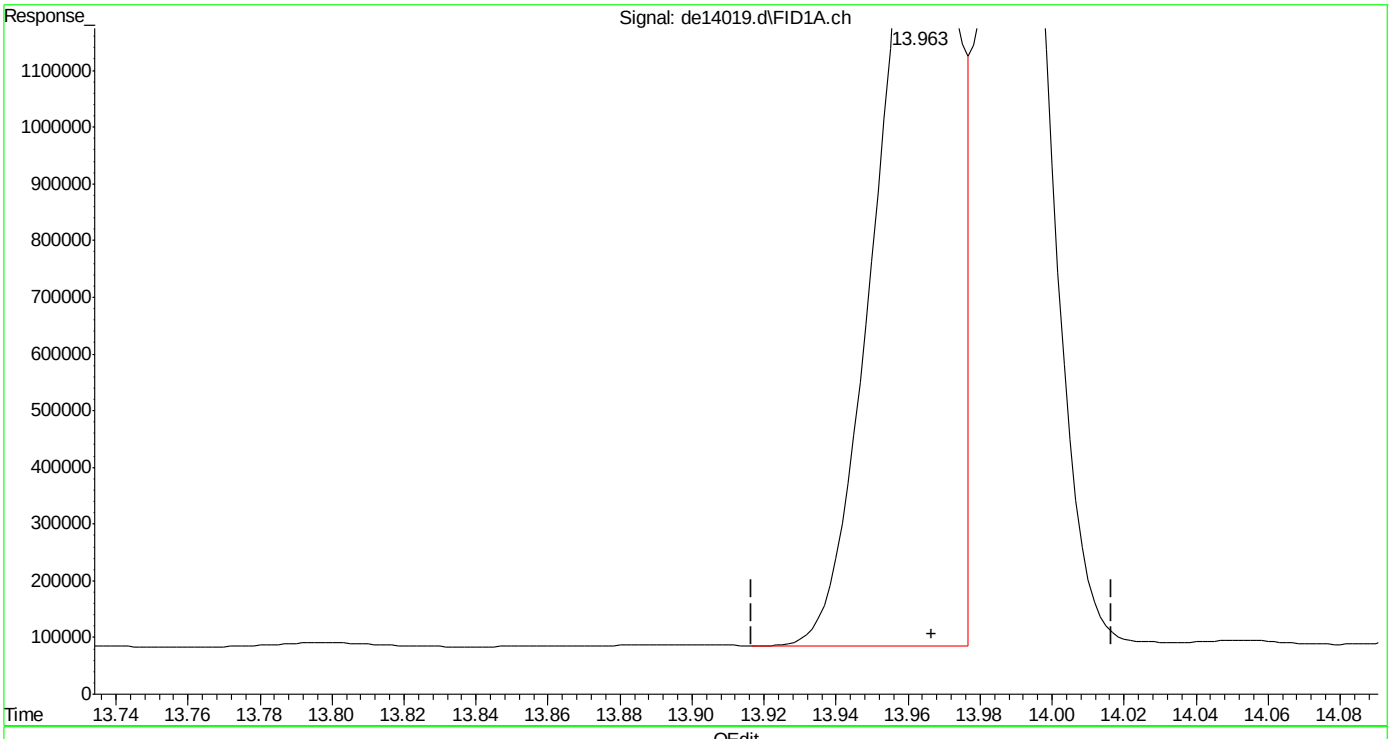
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
13.963min 22.606 µg/ml m
response 2238034

(+) = Expected Retention Time

EPH160504W.M Wed May 04 12:53:20 2016

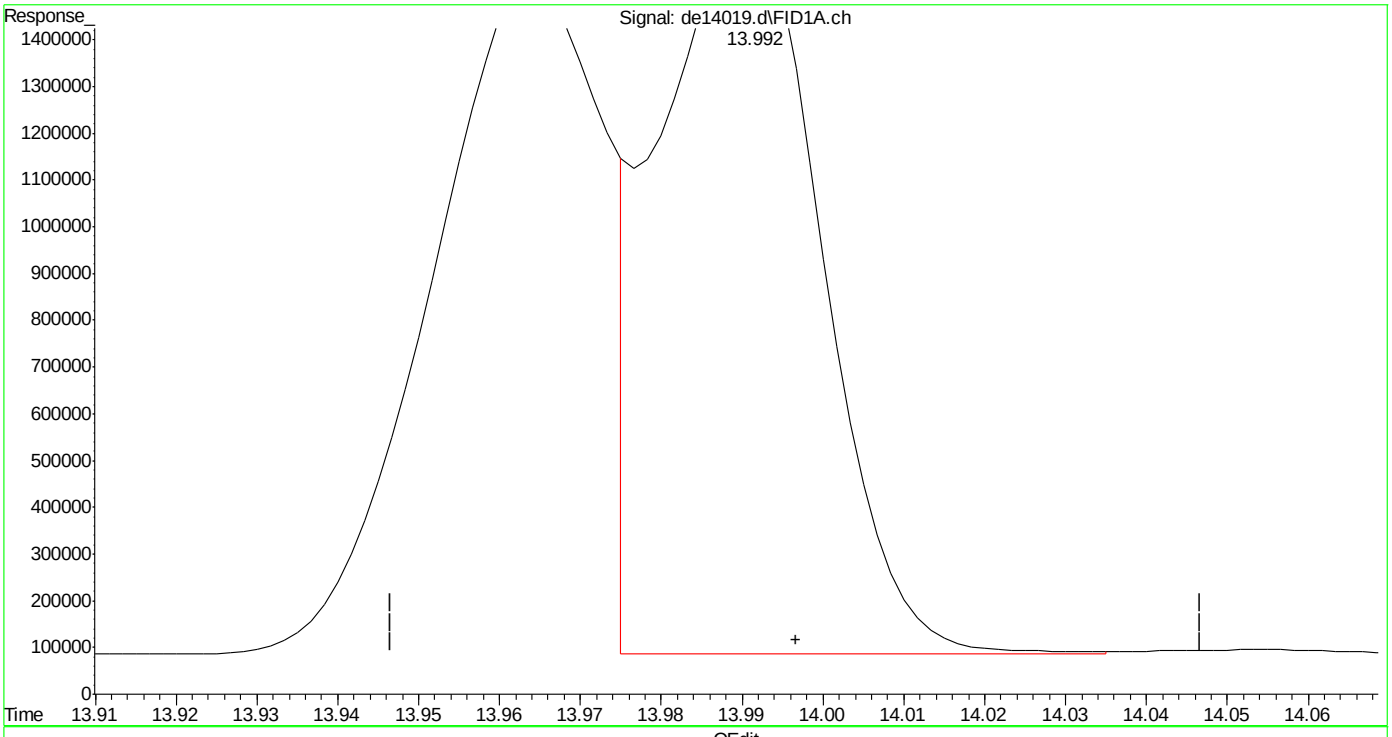
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
13.992min 22.958 µg/ml
response 2169554

(+) = Expected Retention Time
EPH160504W.M Wed May 04 12:53:24 2016

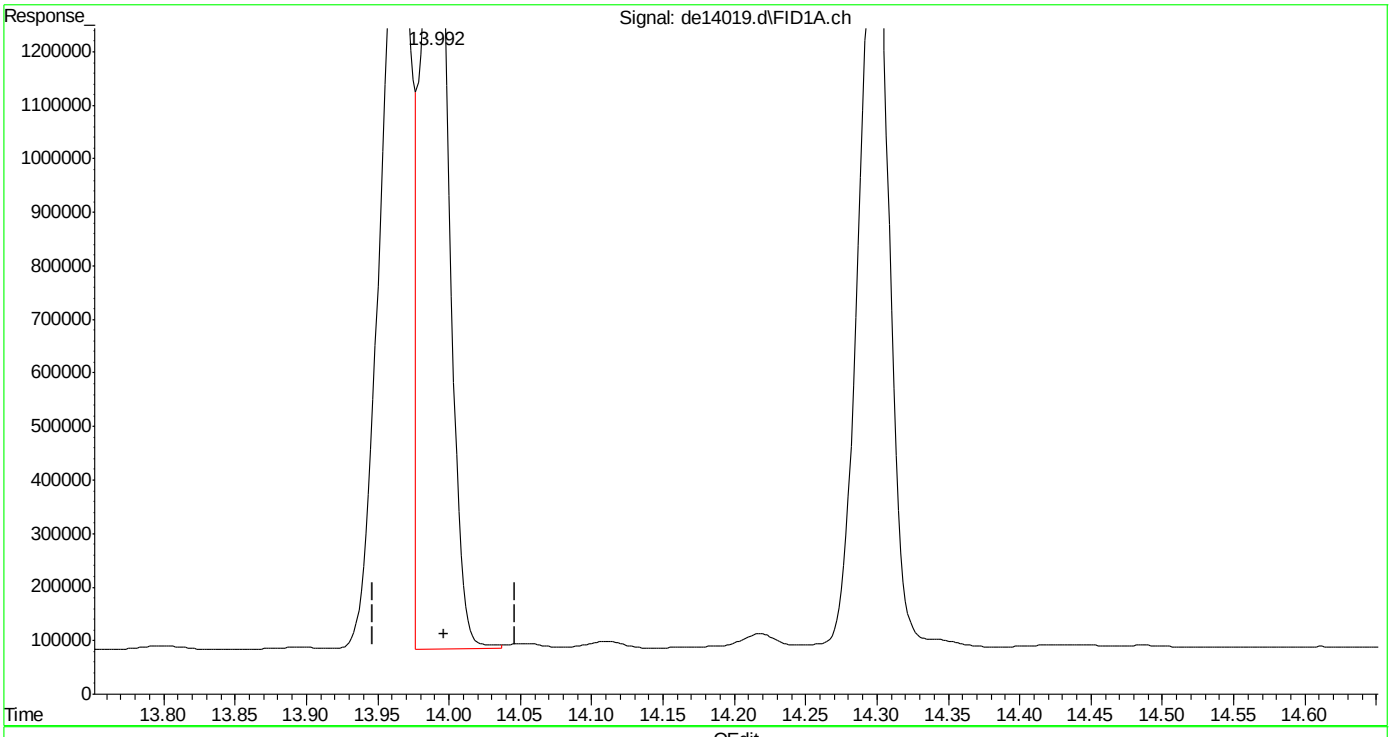
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
13.992min 21.905 µg/ml m
response 2070081

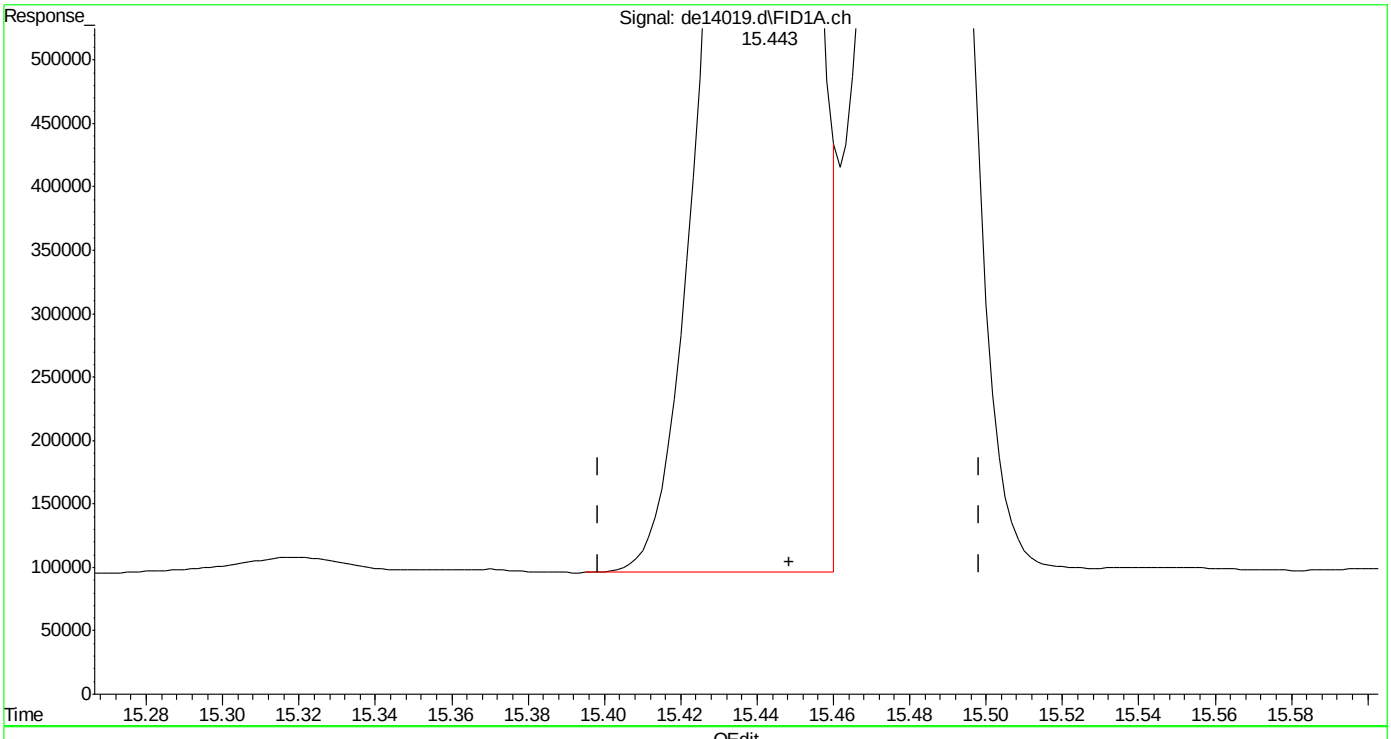
(+) = Expected Retention Time
EPH160504W.M Wed May 04 12:53:38 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.443min 22.186 µg/ml
response 2100116

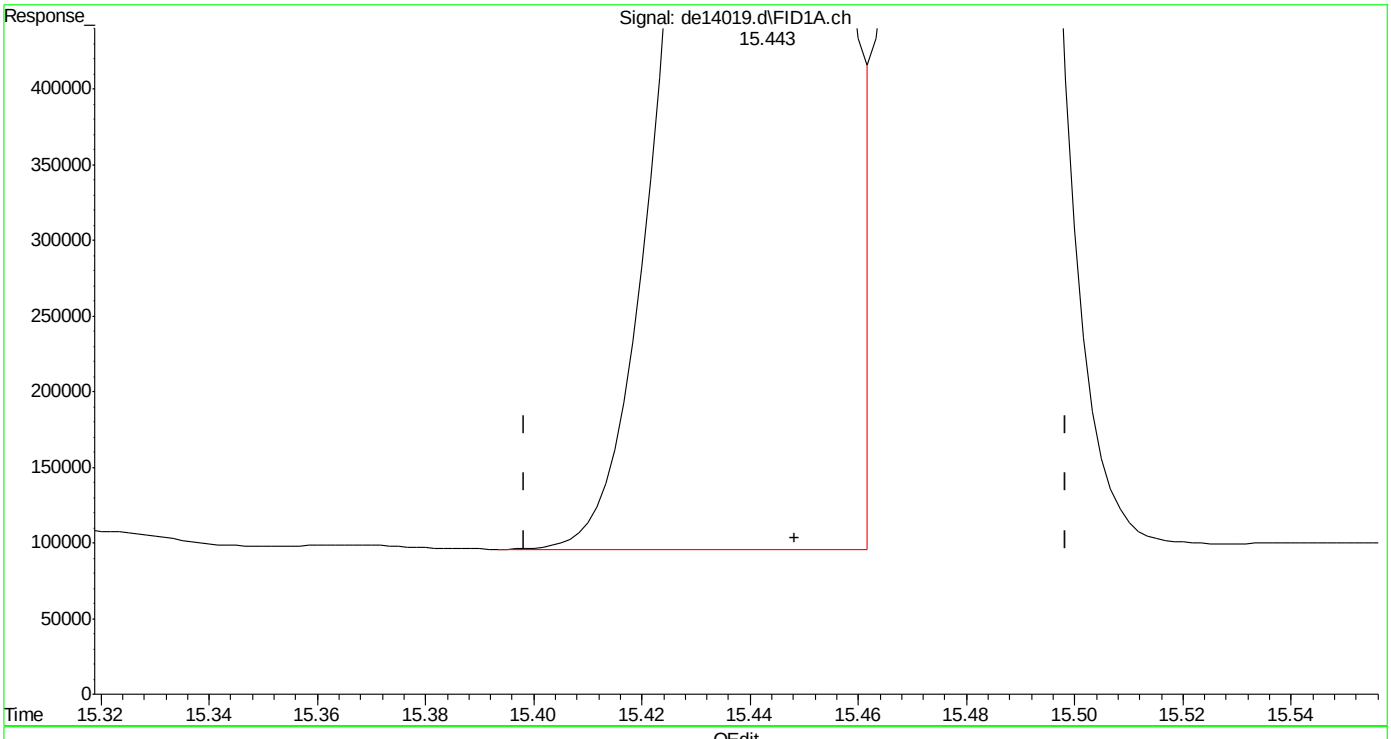
(+) = Expected Retention Time
EPH160504W.M Wed May 04 12:53:44 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.443min 22.553 µg/ml m
response 2134800

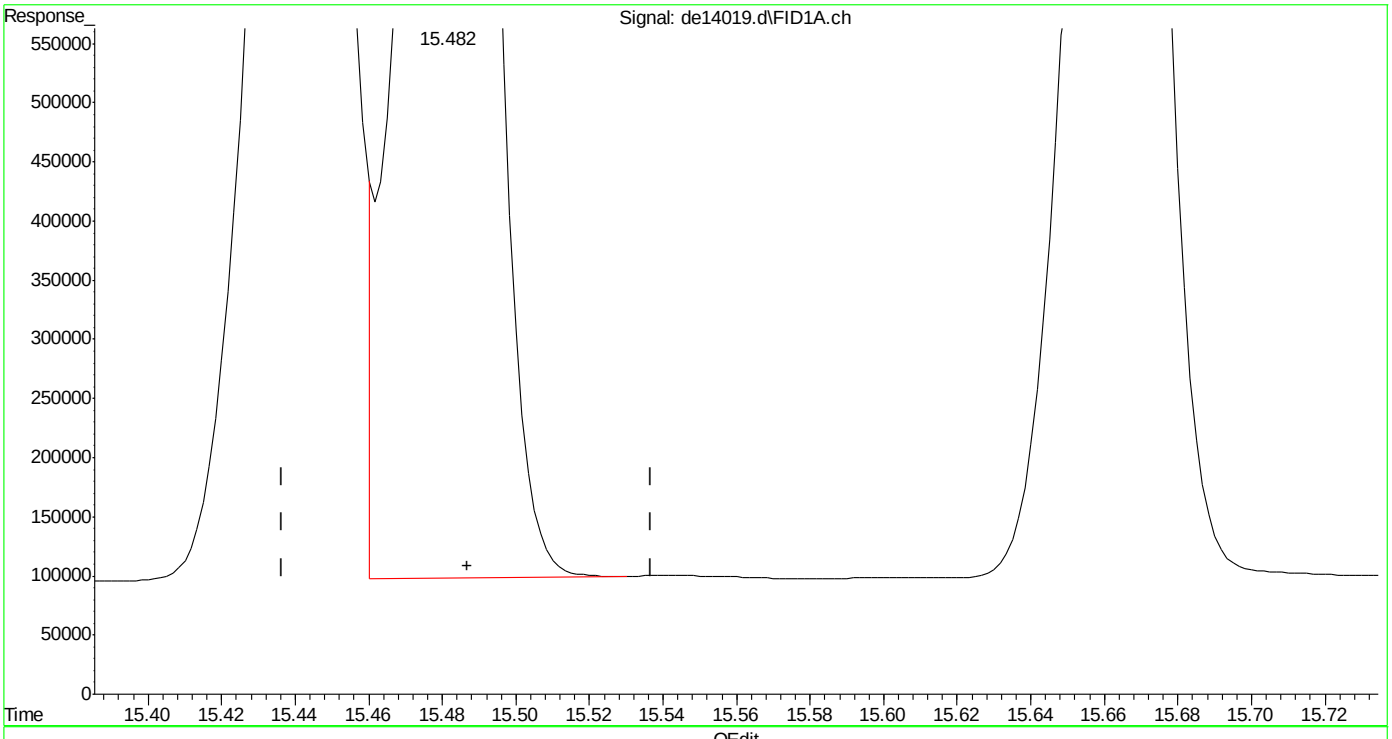
(+) = Expected Retention Time
EPH160504W.M Wed May 04 12:54:03 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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

15.482min 22.956 µg/ml

response 2098119

(+) = Expected Retention Time

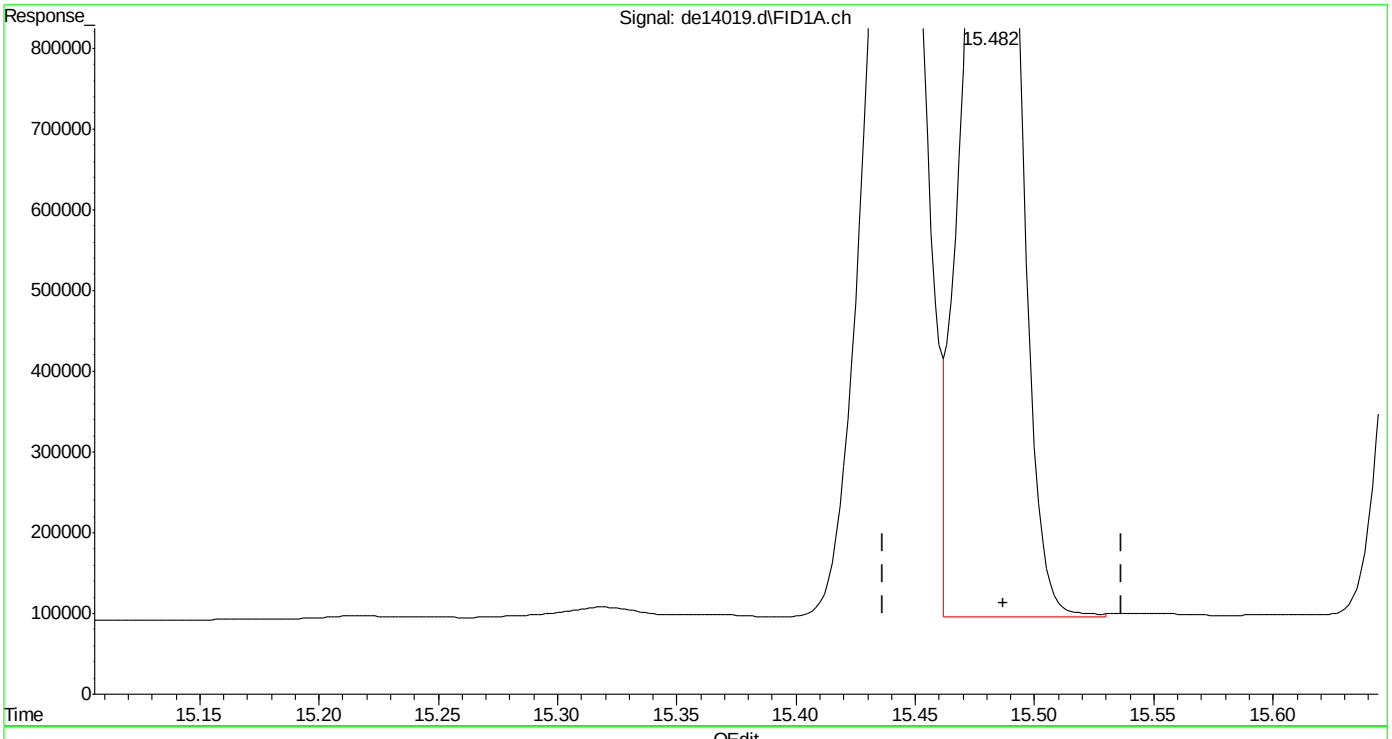
EPH160504W.M Wed May 04 12:54:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14019.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:05 pm
Operator : thomasa
Sample : op47259-ms
Misc : op47259,gde784,11.34,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.482min 22.743 µg/ml m
response 2078712

(+) = Expected Retention Time
EPH160504W.M Wed May 04 12:54:19 2016

SGS ACCUTEST MC45538

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/04/16 14:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14020.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:33 pm
Operator : thomasa
Sample : op47259-msd
Misc : op47259,gde784,11.51,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:58:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	6.695	1557577	16.888 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	84.44%#
6) s 2-bromonaphthalene	7.428	965196	15.380 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	76.90%#
11) s o-terphenyl	9.965	1769185	17.273 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	86.37%#
35) s 1-chlorooctadecane	11.227	954243	16.867 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	84.34%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	39053820	397.678 µg/mlm
2) naphthalene	5.247	1471010	14.262 µg/ml
3) 2-methylnaphthalene	6.145	1555151	15.175 µg/ml
5) acenaphthylene	7.258	1702018	16.918 µg/ml
7) acenaphthene	7.498	2004665	19.392 µg/ml
8) fluorene	8.147	1887727	18.586 µg/ml
9) phenanthrene	9.332	1996636	19.620 µg/ml
10) anthracene	9.388	2245592	23.149 µg/mlm
12) fluoranthene	10.838	2233267	22.346 µg/ml
13) pyrene	11.097	2257239	22.247 µg/ml
14) benzo(a)anthracene	12.662	2212700	22.888 µg/ml
15) chrysene	12.710	2219176	22.798 µg/ml
16) benzo(B)fluoranthene	13.965	2191847	22.139 µg/ml
17) benzo(k)fluoranthene	13.990	2243379	23.739 µg/ml
18) benzo(a)pyrene	14.298	2202326	23.826 µg/ml
19) indeno(1,2,3-cd)pyrene	15.443	2196041	23.200 µg/ml
20) dibenzo(ah)anthracene	15.483	2181376	23.867 µg/ml
21) benzo(ghi)perylene	15.663	2218153	24.078 µg/ml
25) h c-9	2.648	8888032	120.316 µg/mlm
41) h c-36	17.008	14719510	220.331 µg/mlm

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

9.4.4
9

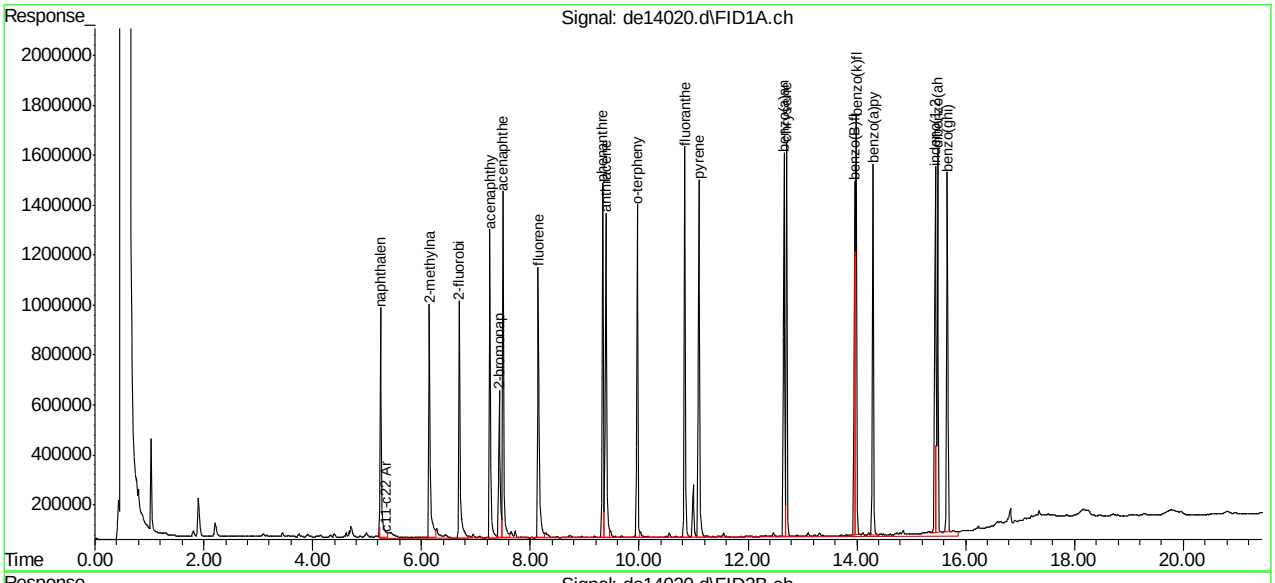
SGS ACCUTEST MC45538

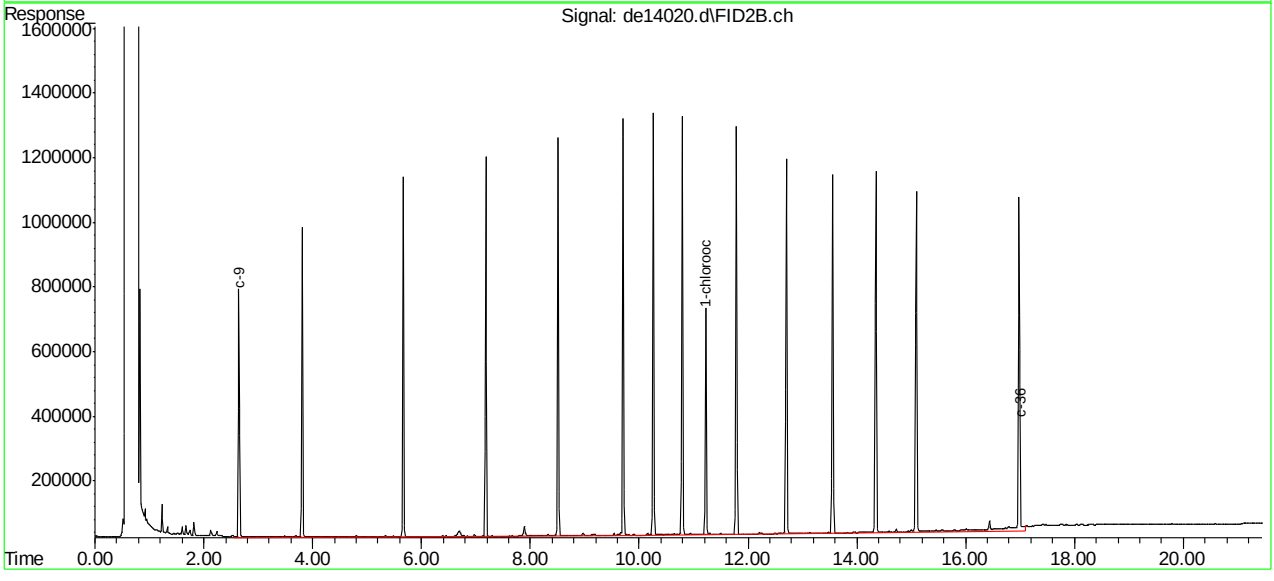
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14020.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:33 pm
Operator : thomasa
Sample : op47259-msd
Misc : op47259,gde784,11.51,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

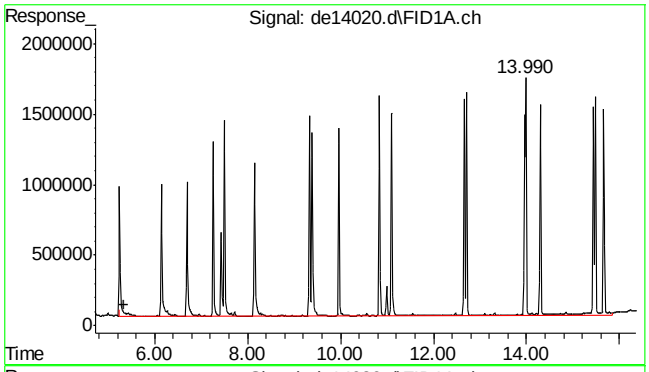
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:58:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 2016
Response via : Initial Calibration
Integrator: RTE

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



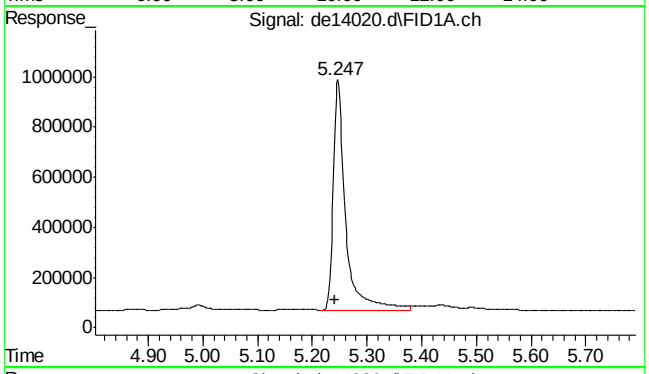


EPH160504W.M Wed May 04 13:27:41 2016 Page: 2



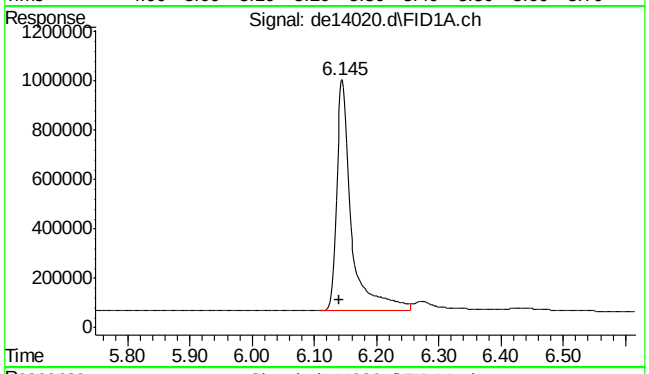
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 39053820
Conc: 397.68 µg/ml m



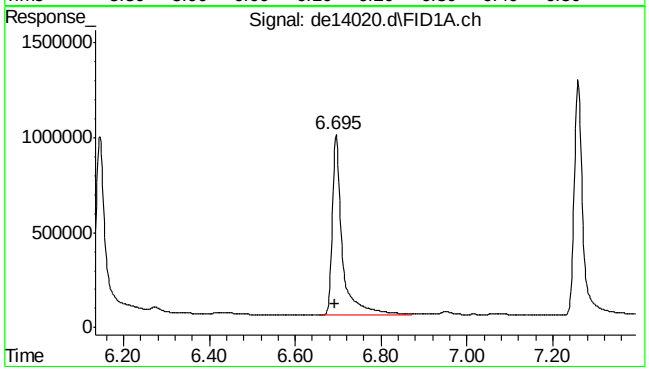
#2 naphthalene

R.T.: 5.247 min
Delta R.T.: 0.005 min
Response: 1471010
Conc: 14.26 µg/ml



#3 2-methylnaphthalene

R.T.: 6.145 min
Delta R.T.: 0.005 min
Response: 1555151
Conc: 15.17 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.695 min
Delta R.T.: 0.003 min
Response: 1557577
Conc: 16.89 µg/ml

9.4.4

9

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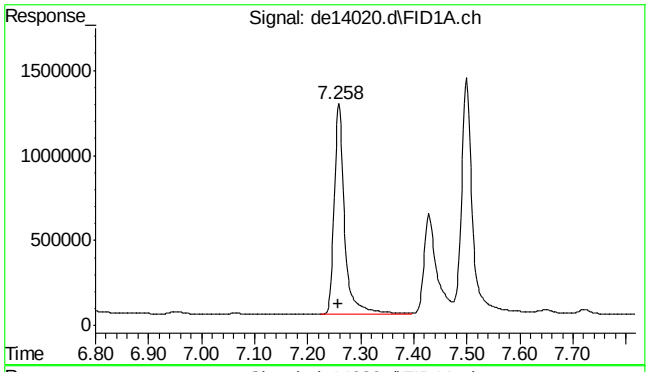
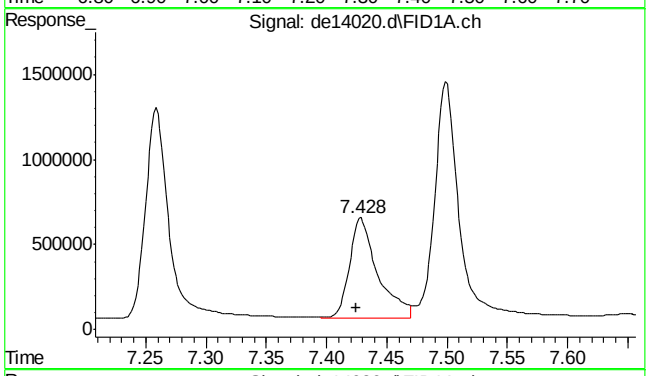


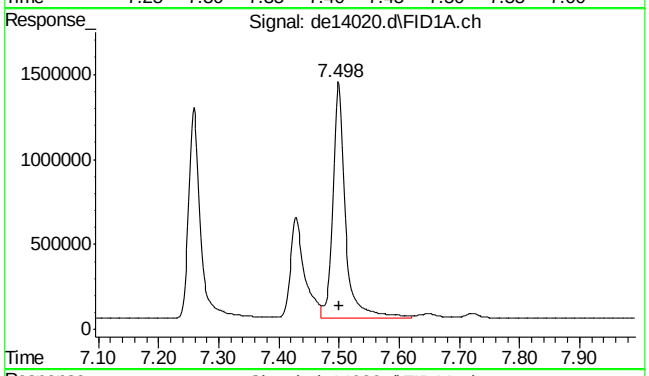
#5 acenaphthylene

R.T.: 7.258 min
Delta R.T.: 0.002 min
Response: 1702018
Conc: 16.92 µg/ml



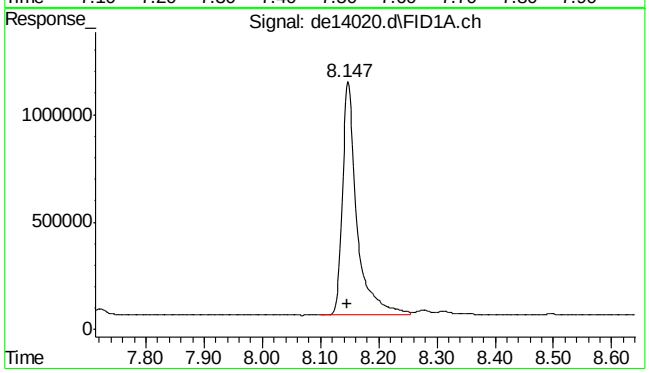
#6 2-bromonaphthalene

R.T.: 7.428 min
Delta R.T.: 0.003 min
Response: 965196
Conc: 15.38 µg/ml



#7 acenaphthene

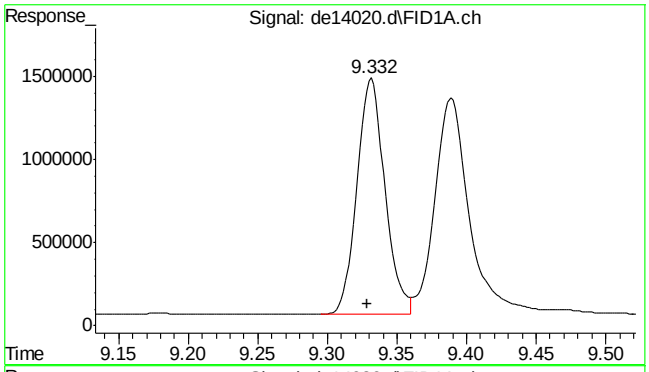
R.T.: 7.498 min
Delta R.T.: -0.002 min
Response: 2004665
Conc: 19.39 µg/ml



#8 fluorene

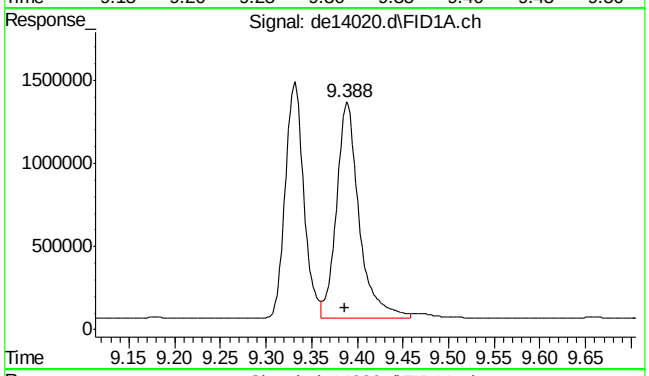
R.T.: 8.147 min
Delta R.T.: 0.002 min
Response: 1887727
Conc: 18.59 µg/ml

SGS ACCUTEST MC45538



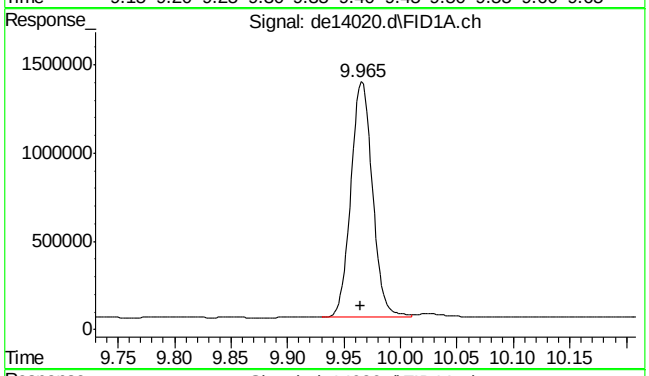
#9 phenanthrene

R.T.: 9.332 min
Delta R.T.: 0.003 min
Response: 1996636
Conc: 19.62 µg/ml



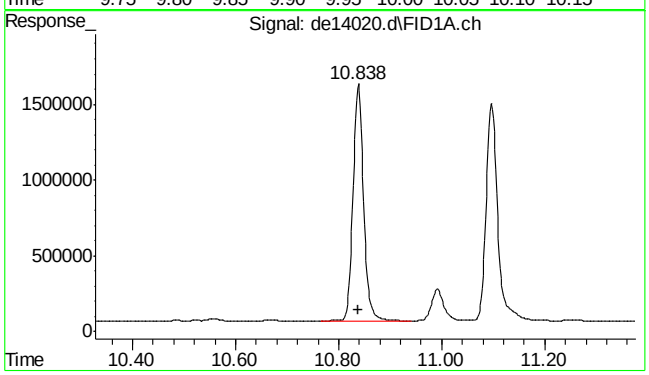
#10 anthracene

R.T.: 9.388 min
Delta R.T.: 0.002 min
Response: 2245592
Conc: 23.15 µg/ml m



#11 o-terphenyl

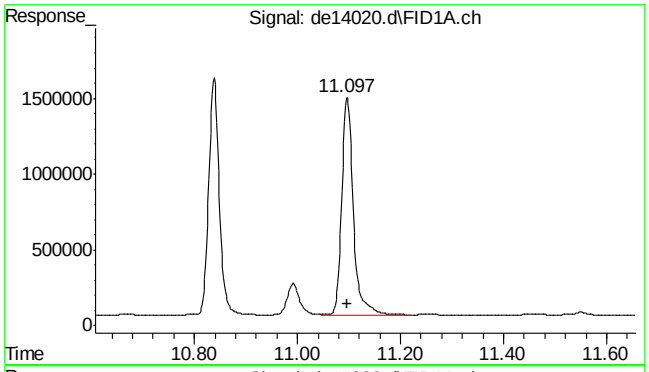
R.T.: 9.965 min
Delta R.T.: 0.000 min
Response: 1769185
Conc: 17.27 µg/ml



#12 fluoranthene

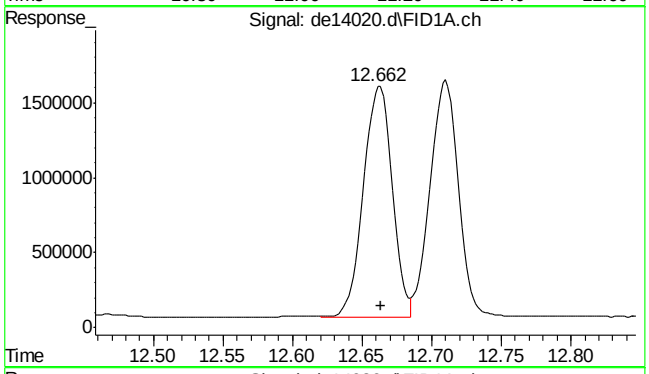
R.T.: 10.838 min
Delta R.T.: 0.000 min
Response: 2233267
Conc: 22.35 µg/ml

SGS ACCUTEST MC45538



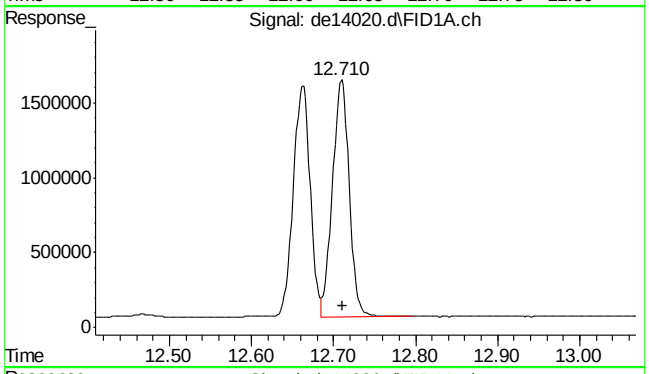
#13 pyrene

R.T.: 11.097 min
Delta R.T.: 0.000 min
Response: 2257239
Conc: 22.25 µg/ml



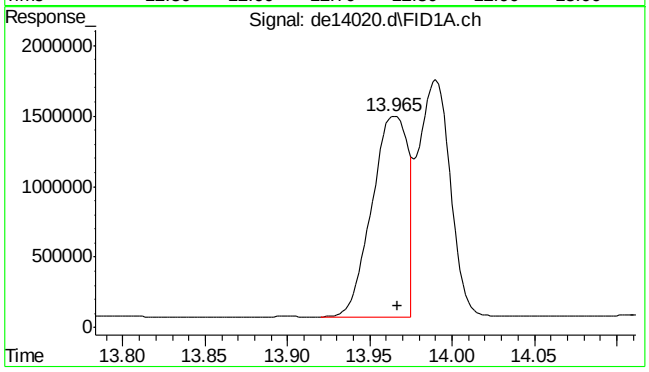
#14 benzo(a)anthracene

R.T.: 12.662 min
Delta R.T.: -0.002 min
Response: 2212700
Conc: 22.89 µg/ml



#15 chrysene

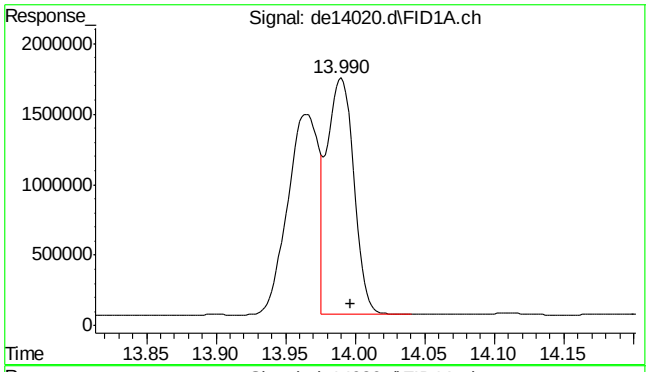
R.T.: 12.710 min
Delta R.T.: -0.002 min
Response: 2219176
Conc: 22.80 µg/ml



#16 benzo(B)fluoranthene

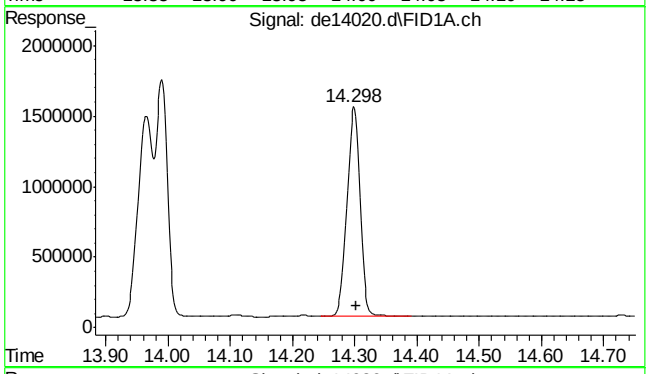
R.T.: 13.965 min
Delta R.T.: -0.002 min
Response: 2191847
Conc: 22.14 µg/ml

SGS ACCUTEST MC45538



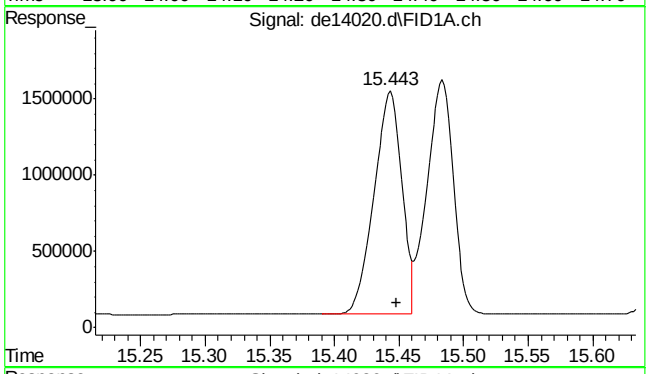
#17 benzo(k)fluoranthene

R.T.: 13.990 min
Delta R.T.: -0.007 min
Response: 2243379
Conc: 23.74 µg/ml



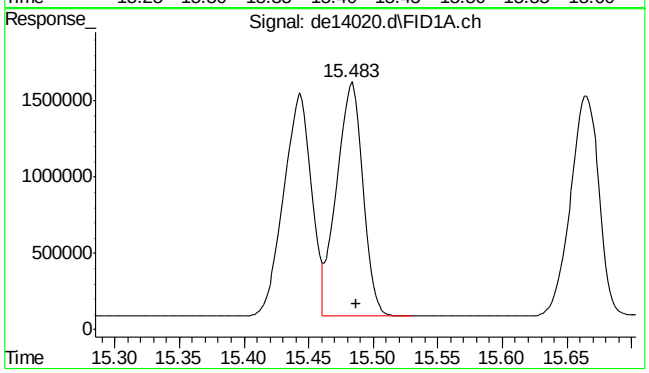
#18 benzo(a)pyrene

R.T.: 14.298 min
Delta R.T.: -0.003 min
Response: 2202326
Conc: 23.83 µg/ml



#19 indeno(1,2,3-cd)pyrene

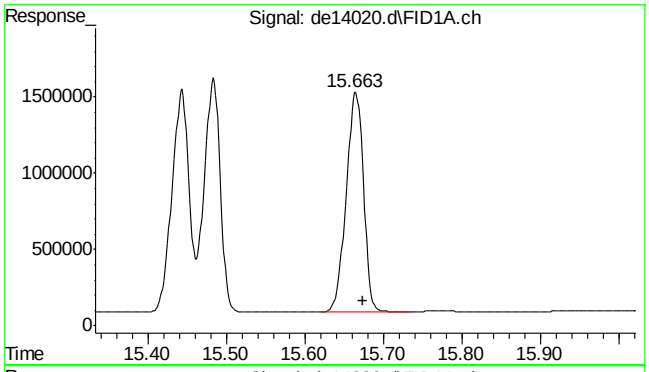
R.T.: 15.443 min
Delta R.T.: -0.005 min
Response: 2196041
Conc: 23.20 µg/ml



#20 dibenzo(ah)anthracene

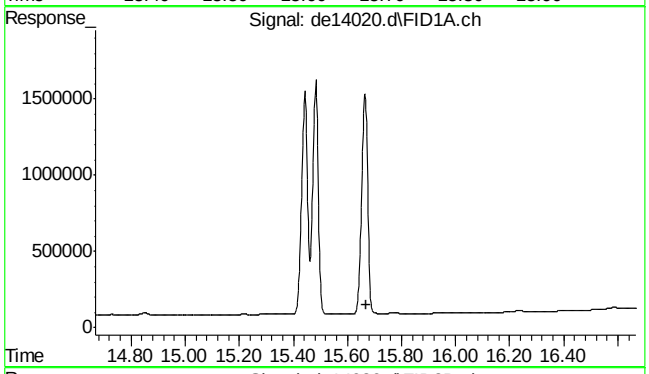
R.T.: 15.483 min
Delta R.T.: -0.003 min
Response: 2181376
Conc: 23.87 µg/ml

SGS ACCUTEST MC45538



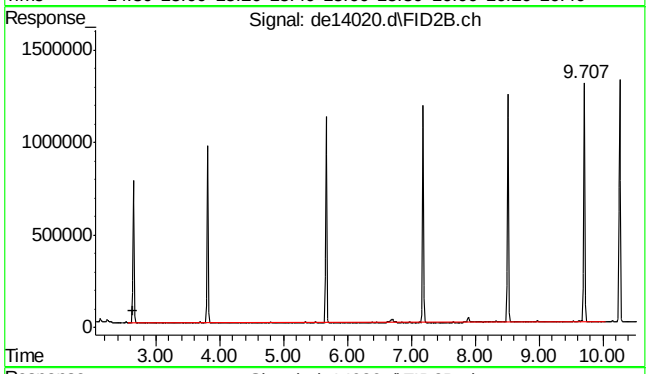
#21 benzo(ghi)perylene

R.T.: 15.663 min
Delta R.T.: -0.010 min
Response: 2218153
Conc: 24.08 µg/ml



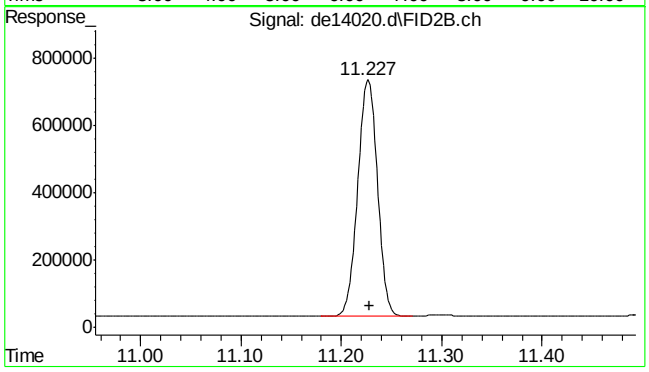
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

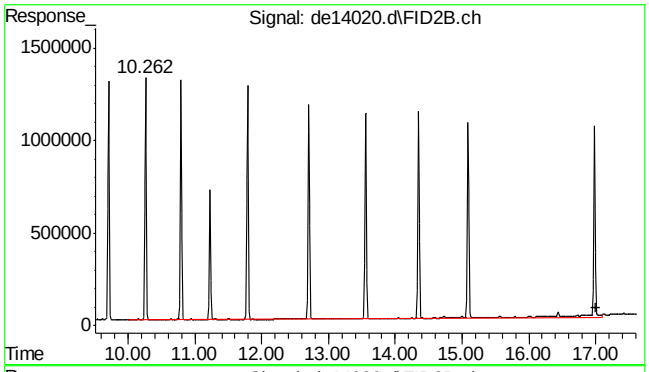
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 8888032
Conc: 120.32 µg/ml m



#35 1-chlorooctadecane

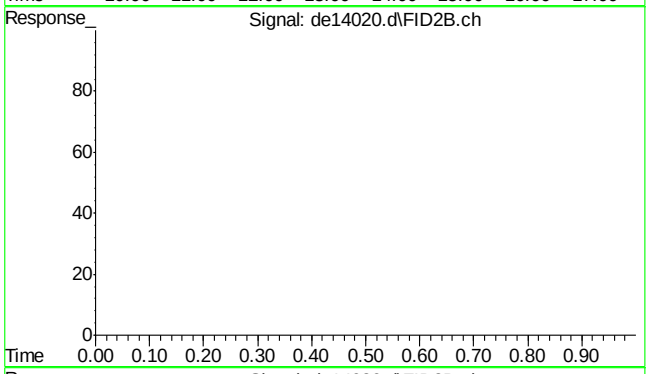
R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 954243
Conc: 16.87 µg/ml

SGS ACCUTEST MC45538



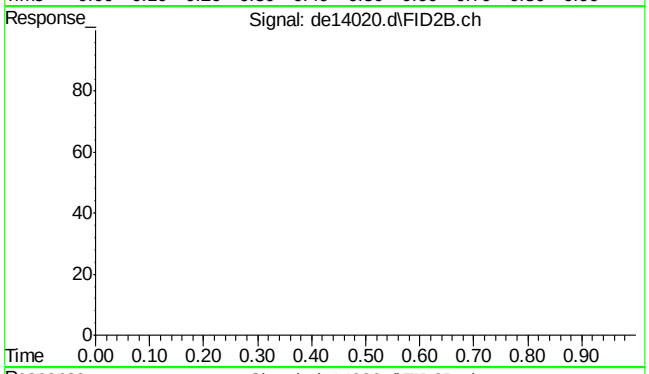
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 14719510
Conc: 220.33 µg/ml m



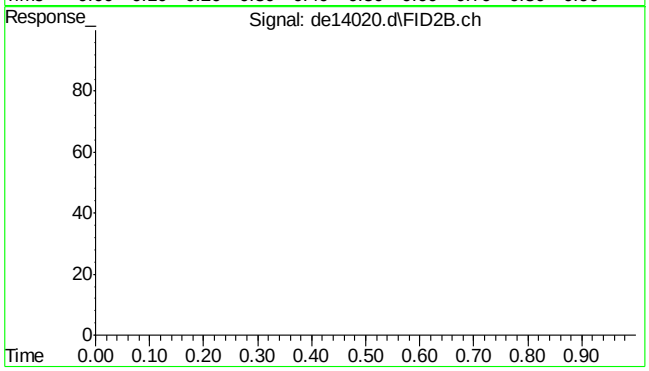
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

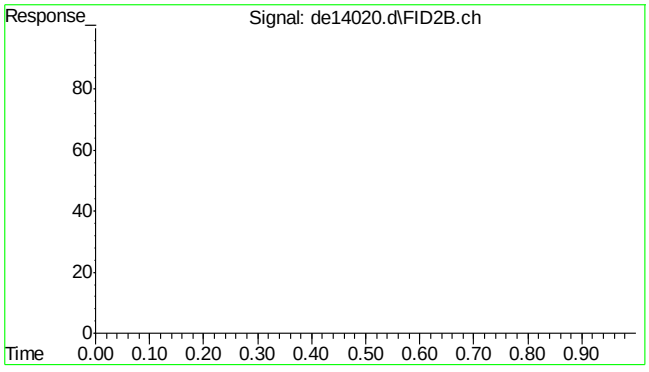
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.4

9

de14020.d EPH160504W.M Wed May 04 13:27:42 2016 Page 11

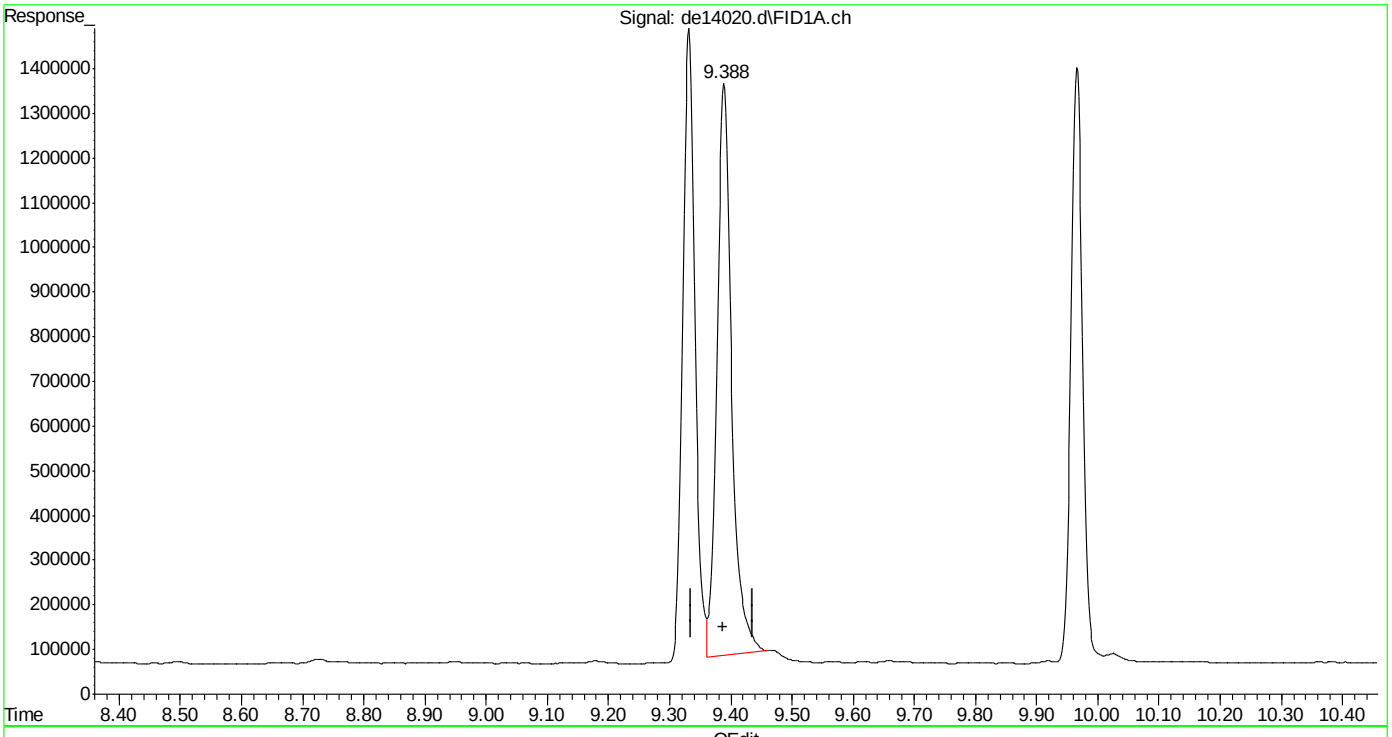
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14020.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:33 pm
Operator : thomasa
Sample : op47259-msd
Misc : op47259,gde784,11.51,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:56:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 2016
Response via : Initial Calibration
Integrator: RTE

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



(10) anthracene
9.388min 21.883 µg/ml
response 2122872

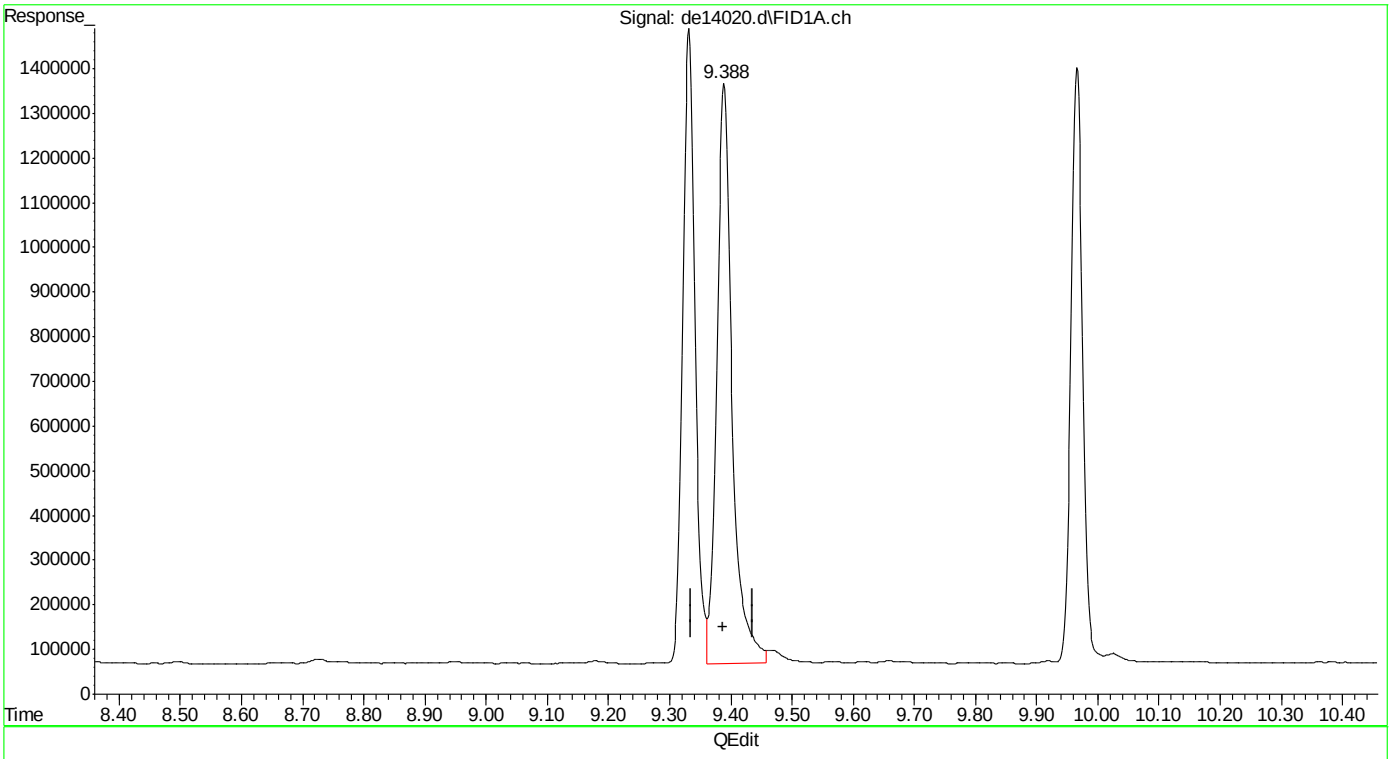
(+) = Expected Retention Time
EPH160504W.M Wed May 04 12:56:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14020.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 12:33 pm
Operator : thomasa
Sample : op47259-msd
Misc : op47259,gde784,11.51,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 12:56:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 2016
Response via : Initial Calibration
Integrator: RTE

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



(10) anthracene
9.388min 23.149 µg/ml m
response 2245592

(+) = Expected Retention Time
EPH160504W.M Wed May 04 12:56:53 2016

SGS ACCUTEST MC45538

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

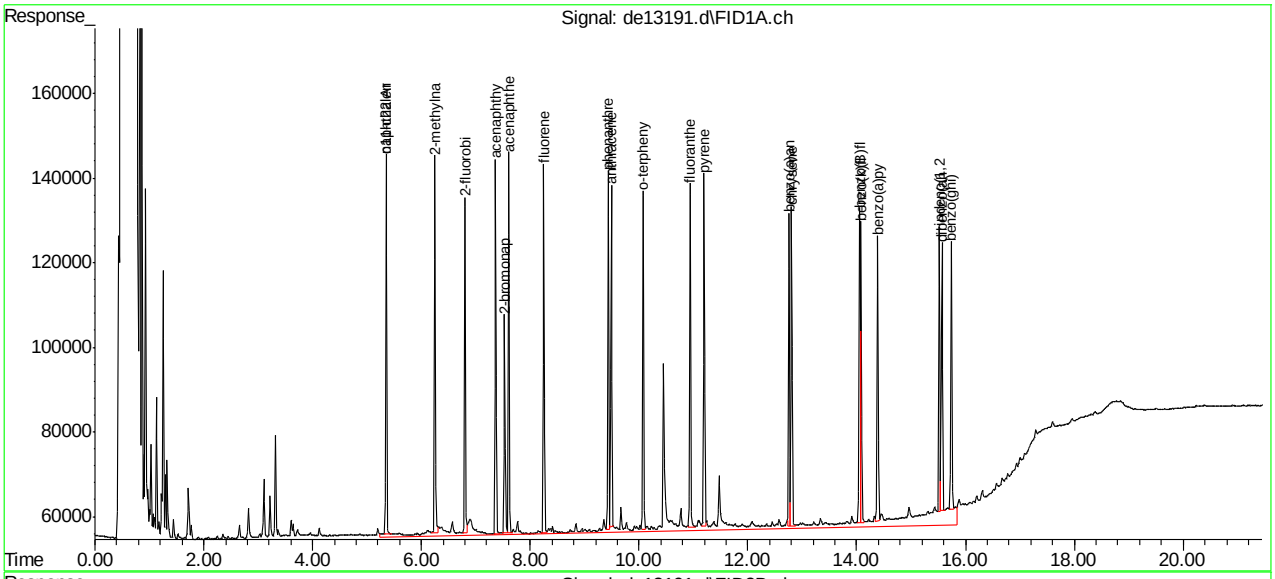
(f)=RT Delta > 1/2 Window (m)=manual int.

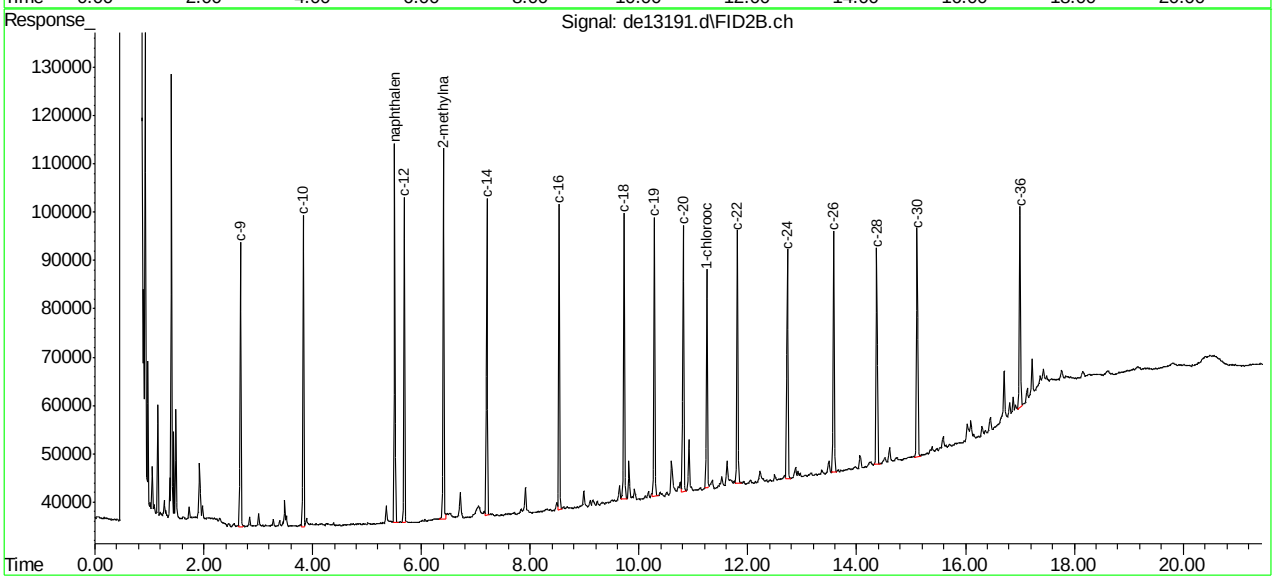
Quantitation Report (QT Reviewed)

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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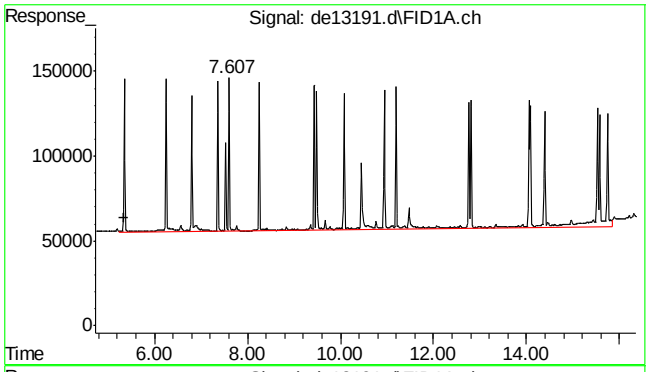
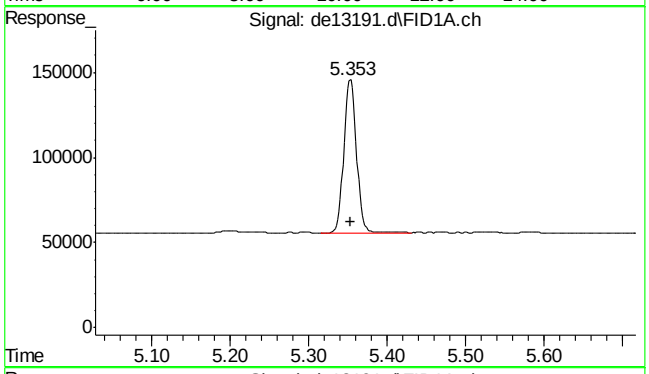


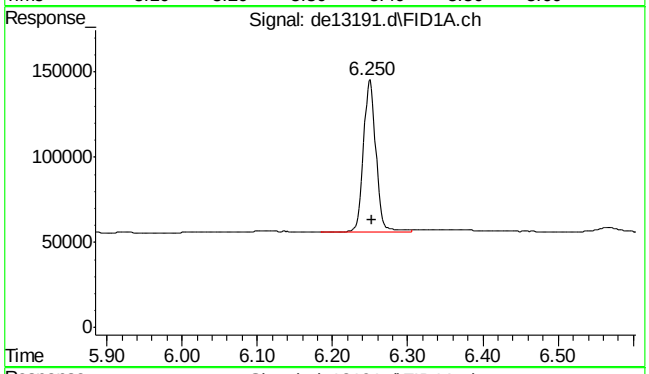
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2460719
Conc: 2.66 µg/ml m



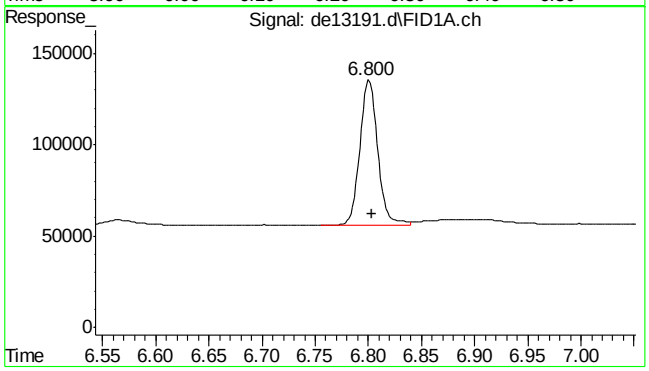
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 100885
Conc: 0.90 µg/ml



#3 2-methylnaphthalene

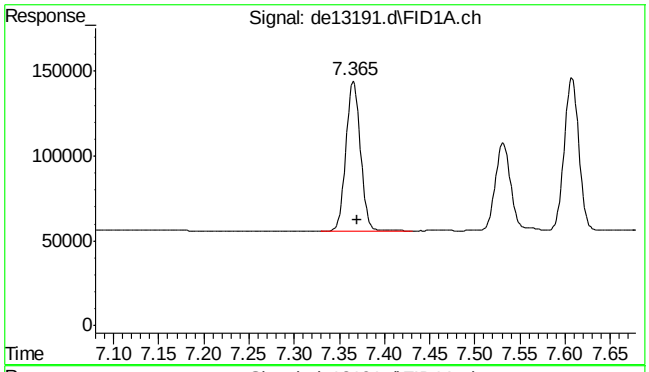
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 102950
Conc: 0.93 µg/ml



#4 2-fluorobiphenyl

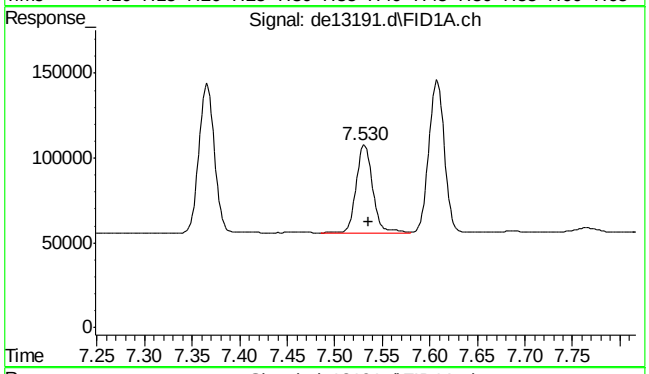
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 93024
Conc: 0.93 µg/ml

SGS ACCUTEST MC45538



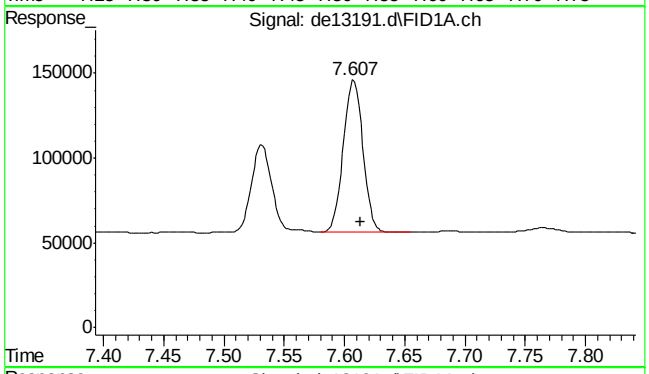
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 99947
Conc: 0.91 µg/ml



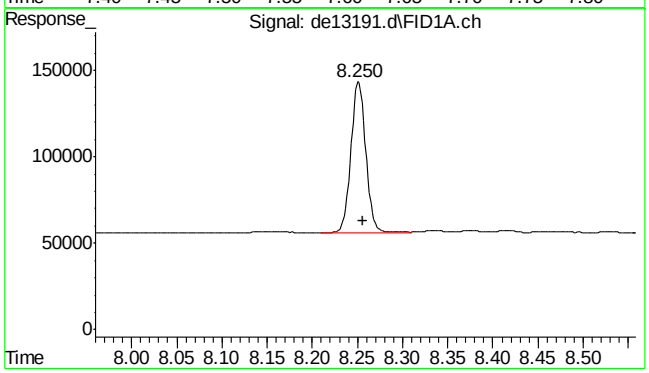
#6 2-bromonaphthalene

R.T.: 7.530 min
Delta R.T.: -0.005 min
Response: 61936
Conc: 0.91 µg/ml



#7 acenaphthene

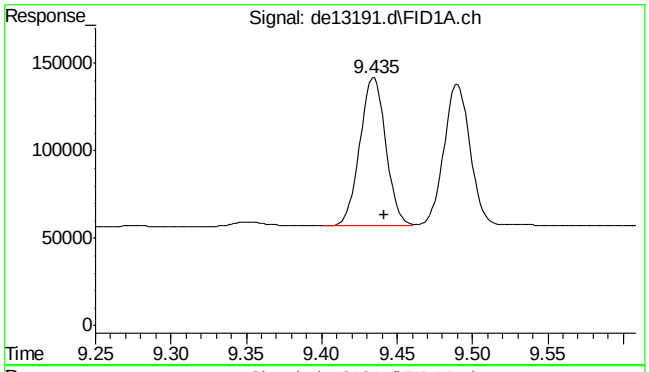
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 101818
Conc: 0.92 µg/ml



#8 fluorene

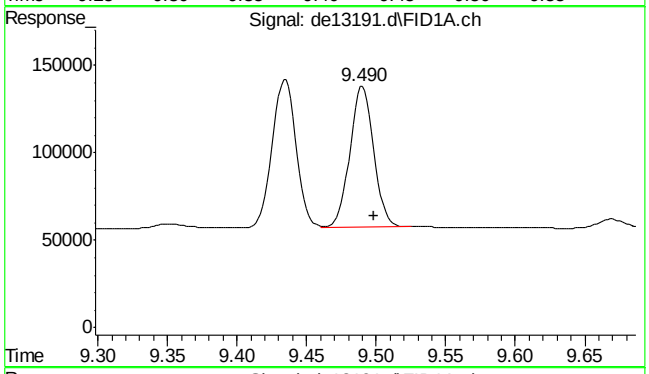
R.T.: 8.250 min
Delta R.T.: -0.007 min
Response: 100695
Conc: 0.92 µg/ml

SGS ACCUTEST MC45538



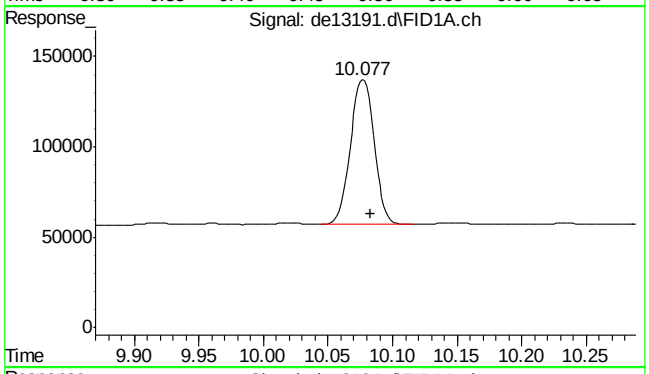
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 101800
Conc: 0.94 µg/ml



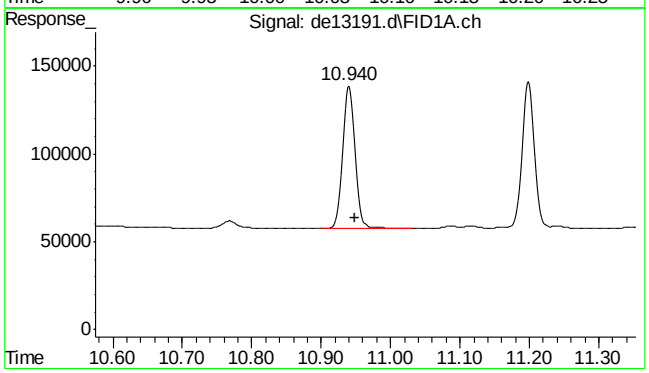
#10 anthracene

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 96242
Conc: 0.96 µg/ml



#11 o-terphenyl

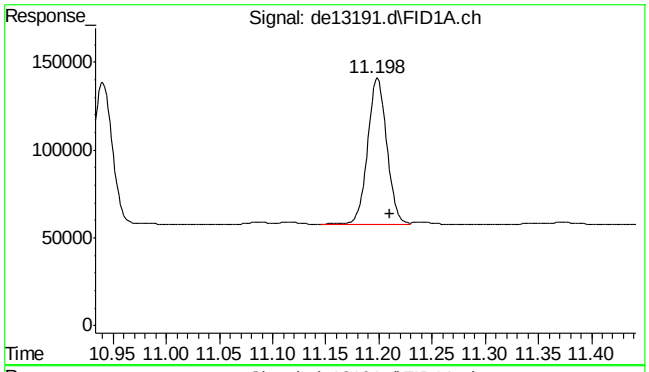
R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 103028
Conc: 0.95 µg/ml



#12 fluoranthene

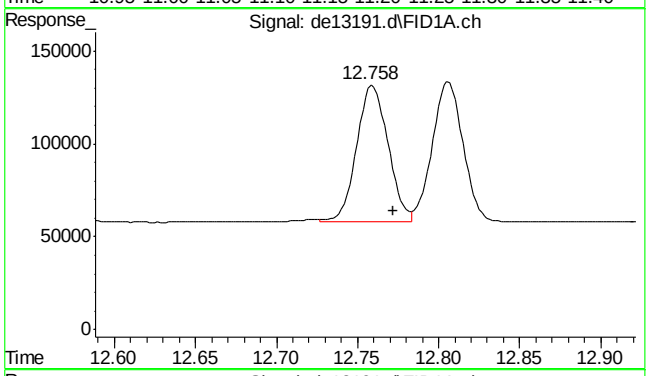
R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 103521
Conc: 0.99 µg/ml

SGS ACCUTEST MC45538



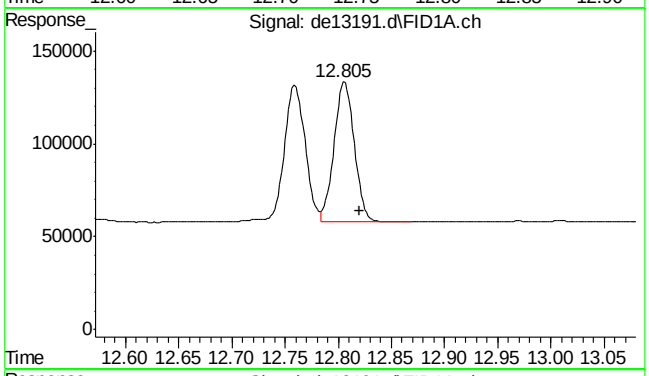
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 105548
Conc: 1.01 µg/ml



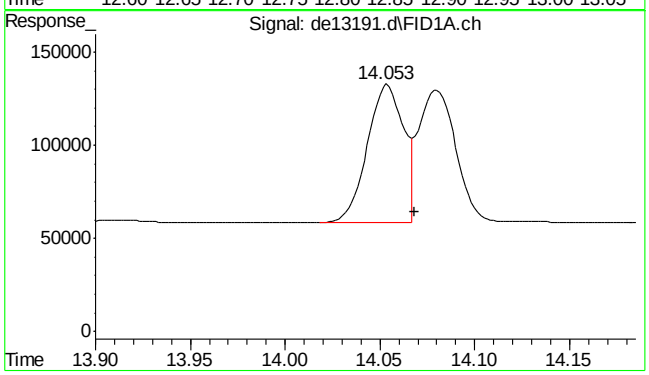
#14 benzo(a)anthracene

R.T.: 12.758 min
Delta R.T.: -0.013 min
Response: 100487
Conc: 1.02 µg/ml m



#15 chrysene

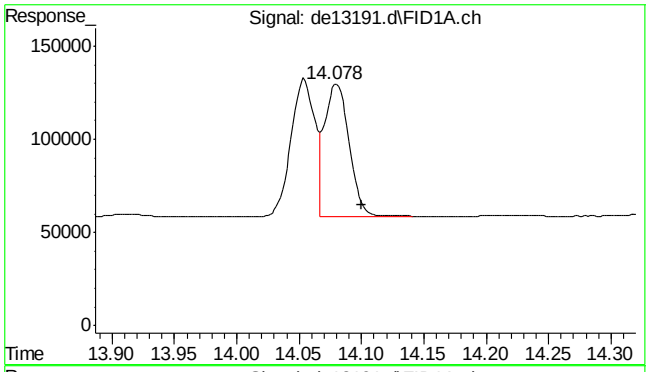
R.T.: 12.805 min
Delta R.T.: -0.015 min
Response: 100279
Conc: 1.01 µg/ml m



#16 benzo(B)fluoranthene

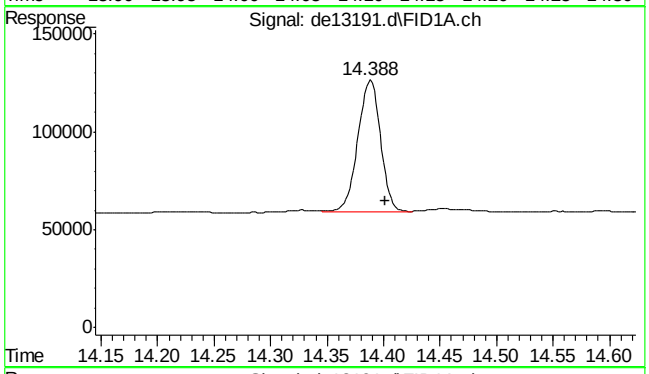
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 100827
Conc: 0.99 µg/ml m

SGS ACCUTEST MC45538



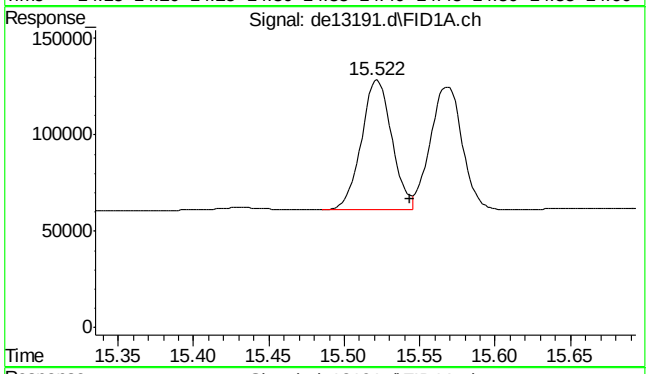
#17 benzo(k)fluoranthene

R.T.: 14.078 min
Delta R.T.: -0.022 min
Response: 95833
Conc: 0.98 µg/ml m



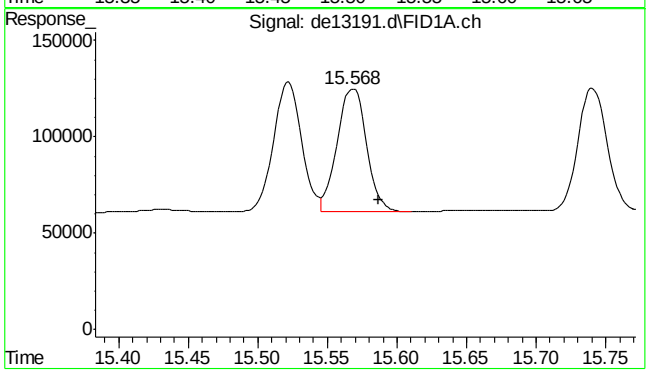
#18 benzo(a)pyrene

R.T.: 14.388 min
Delta R.T.: -0.013 min
Response: 94743
Conc: 0.97 µg/ml



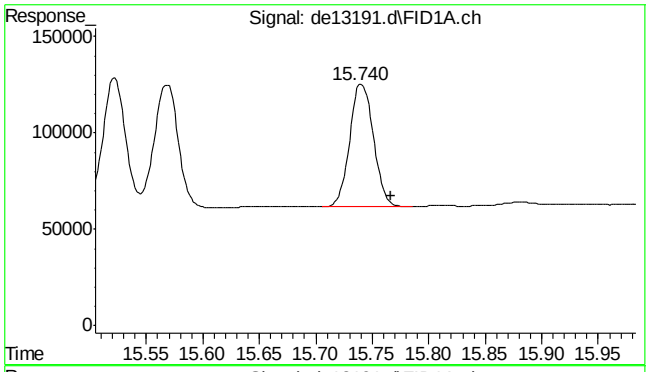
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.522 min
Delta R.T.: -0.022 min
Response: 94483
Conc: 0.97 µg/ml



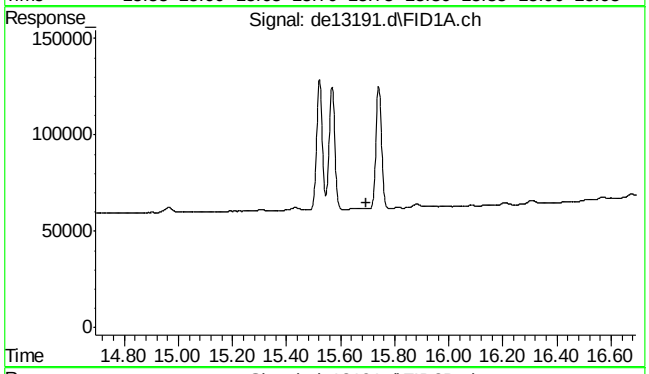
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 92785
Conc: 0.99 µg/ml



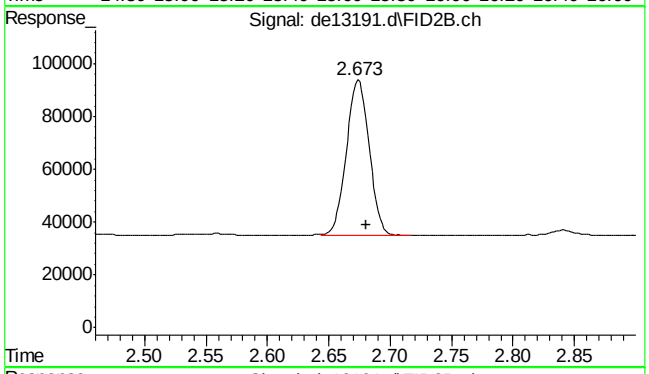
#21 benzo(ghi)perylene

R.T.: 15.740 min
Delta R.T.: -0.027 min
Response: 93453
Conc: 0.99 µg/ml



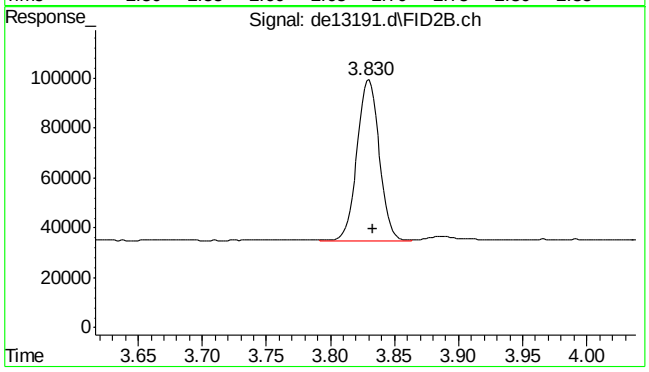
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



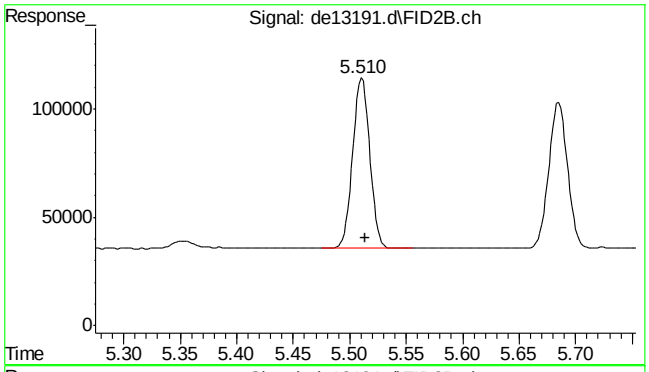
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 76082
Conc: 1.05 µg/ml m



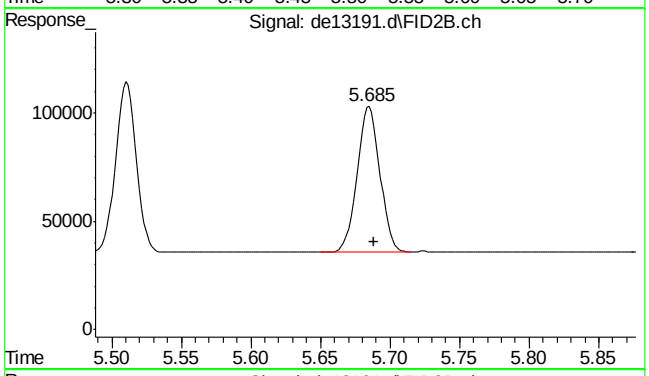
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 77300
Conc: 1.06 µg/ml m



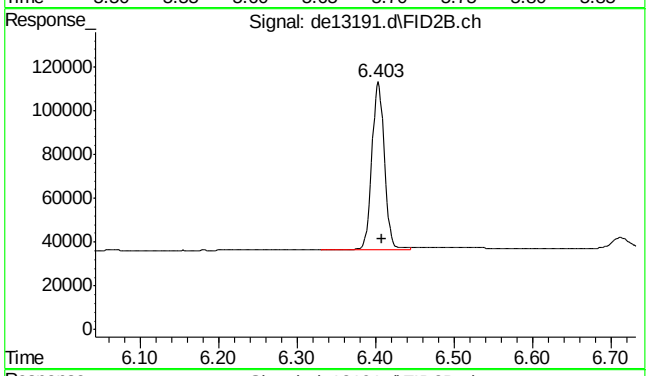
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 81982
Conc: 1.07 µg/ml



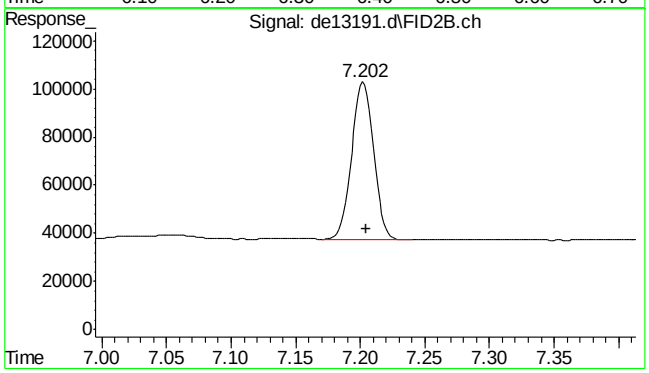
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 76748
Conc: 1.06 µg/ml



#29 2-methylnaphthalene #2

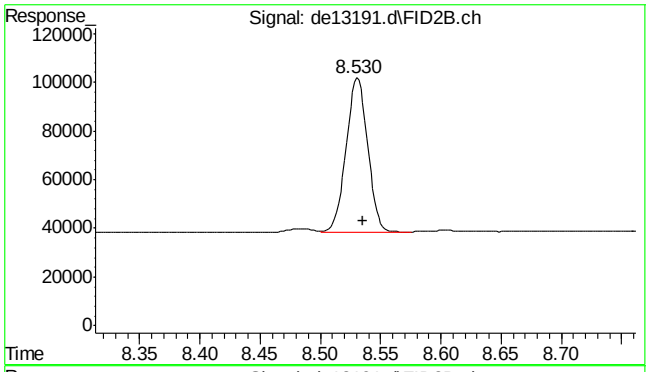
R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 85696
Conc: 1.08 µg/ml



#30 c-14

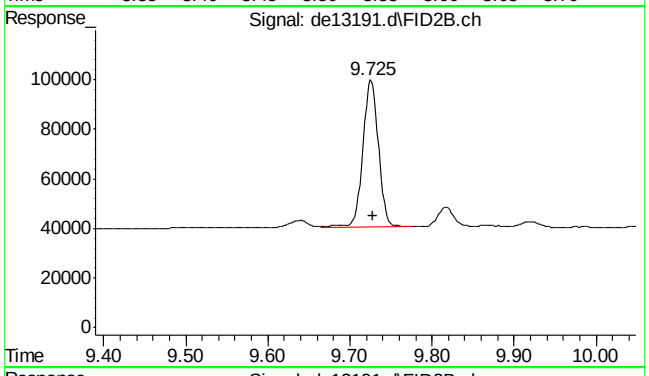
R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 77909
Conc: 1.08 µg/ml

SGS ACCUTEST MC45538



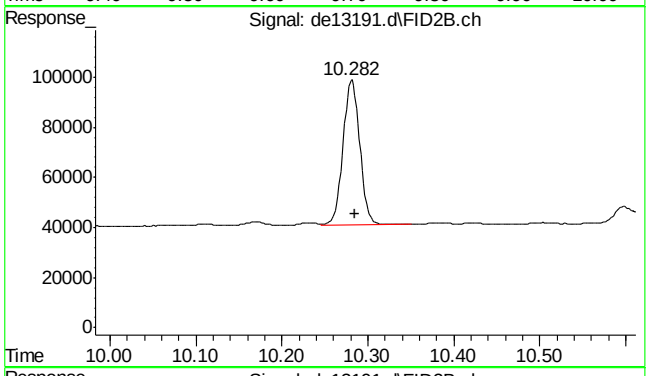
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 78733
Conc: 1.10 µg/ml



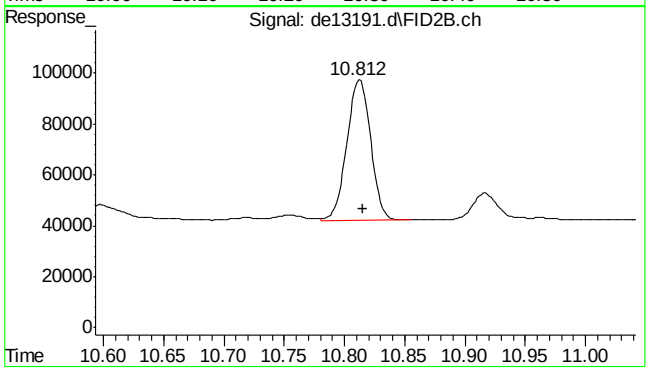
#32 c-18

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



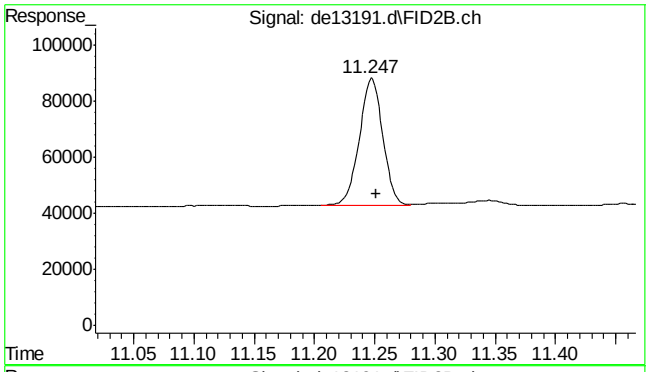
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 75638
Conc: 1.13 µg/ml

9.5.1

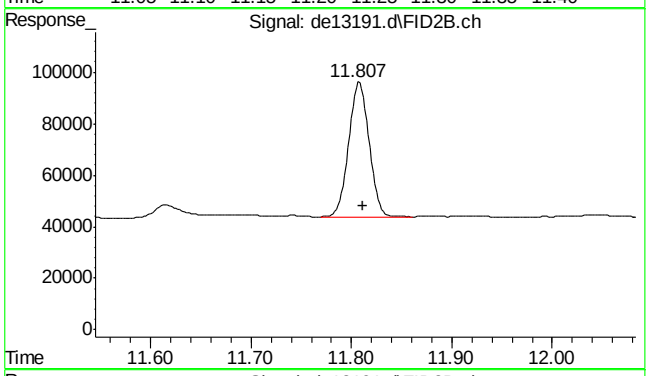
9

SGS ACCUTEST MC45538



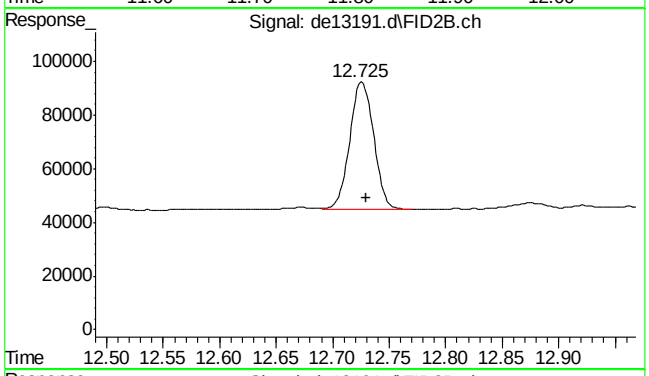
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 61176
Conc: 1.13 µg/ml



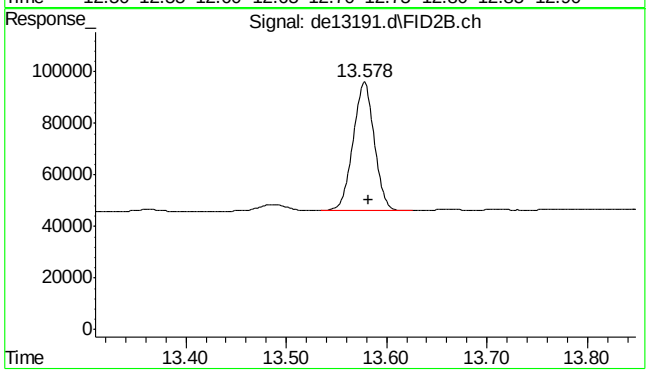
#36 c-22

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



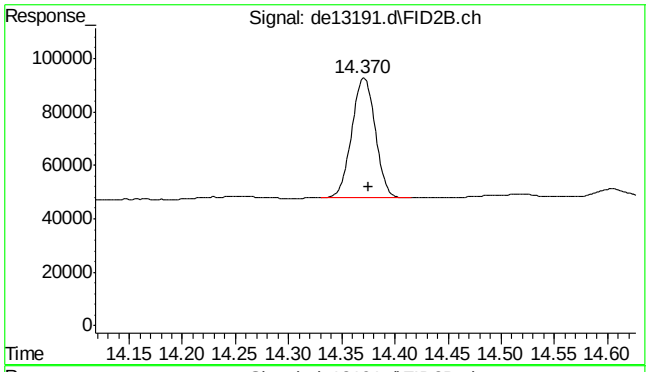
#38 c-26

R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 72850
Conc: 1.10 µg/ml

9.5.1

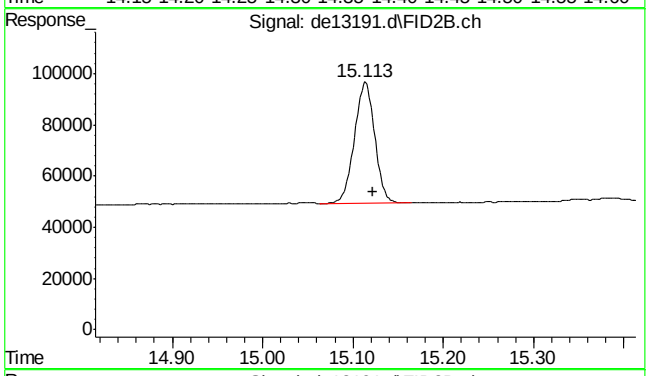
9

SGS ACCUTEST MC45538



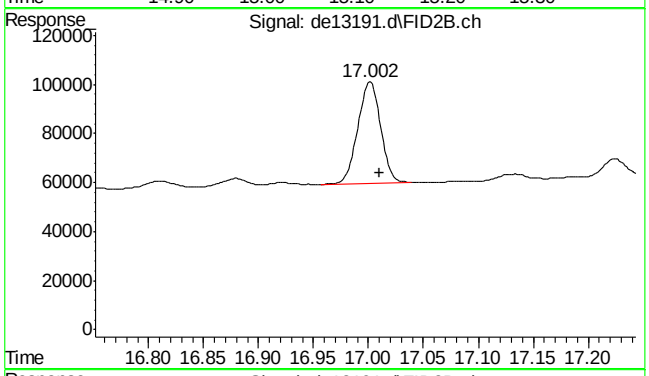
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 69399
Conc: 1.06 µg/ml



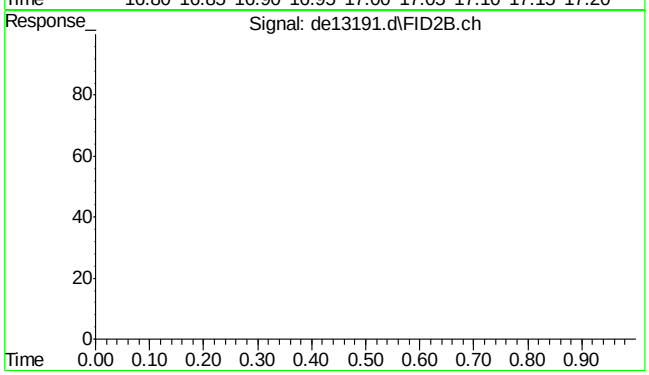
#40 c-30

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



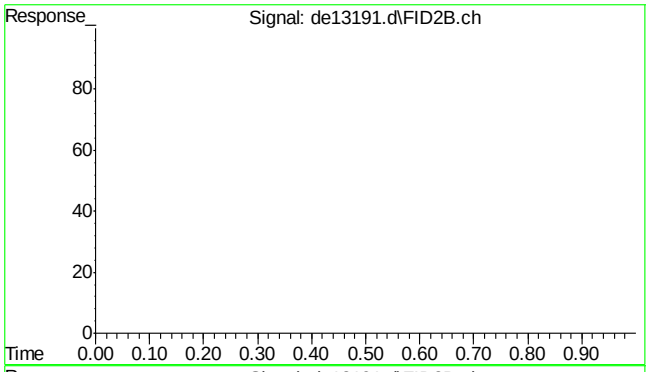
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.1

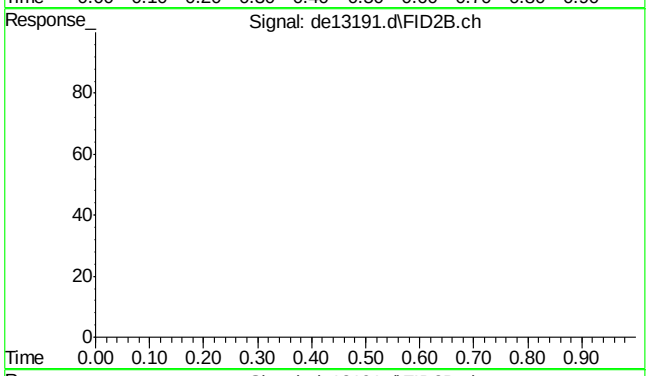
9

SGS ACCUTEST MC45538



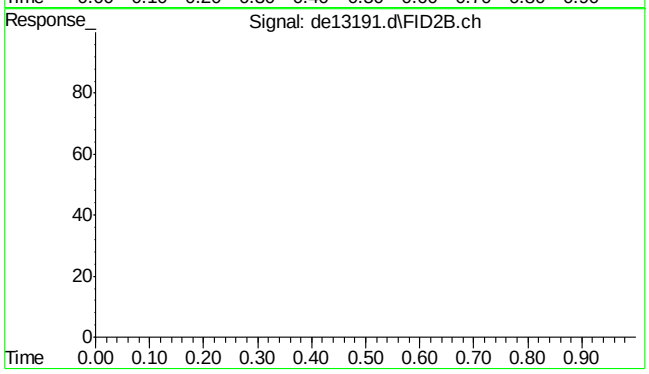
#43 bht

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

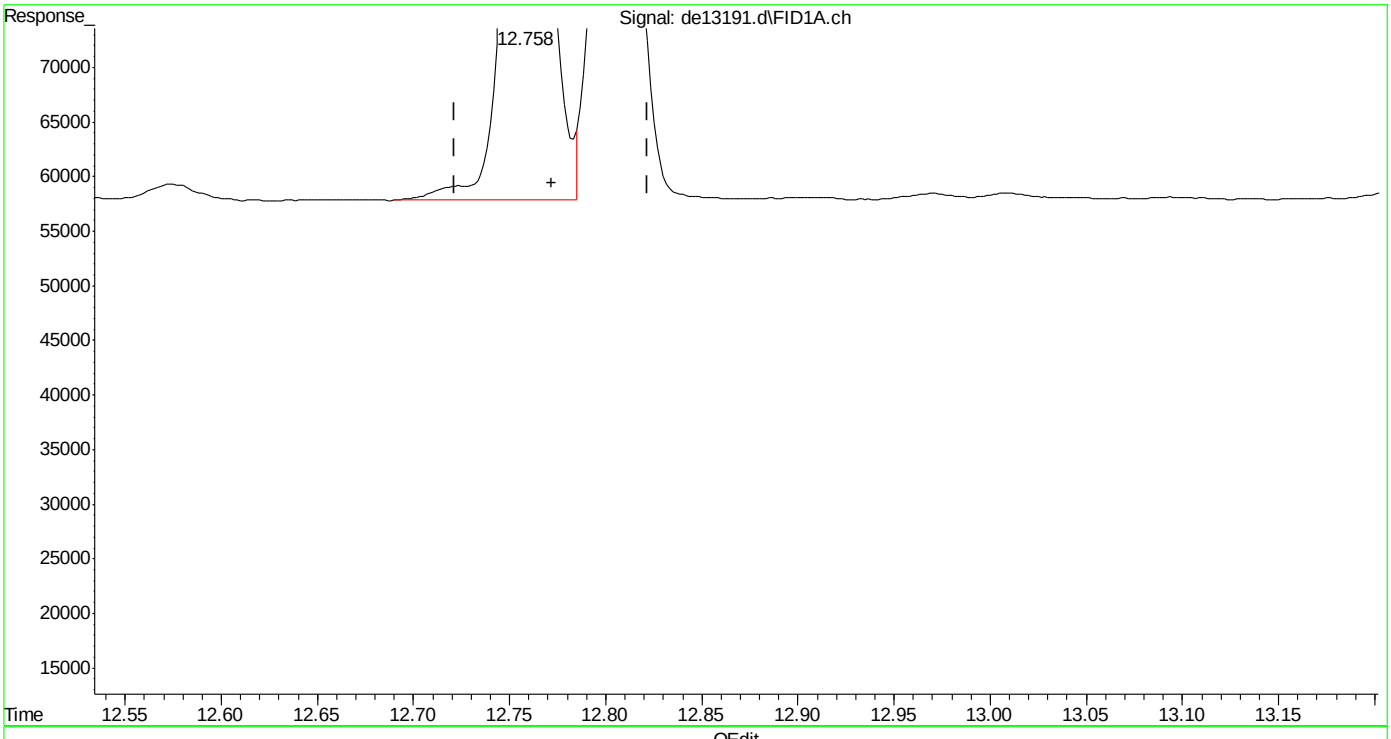
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : 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

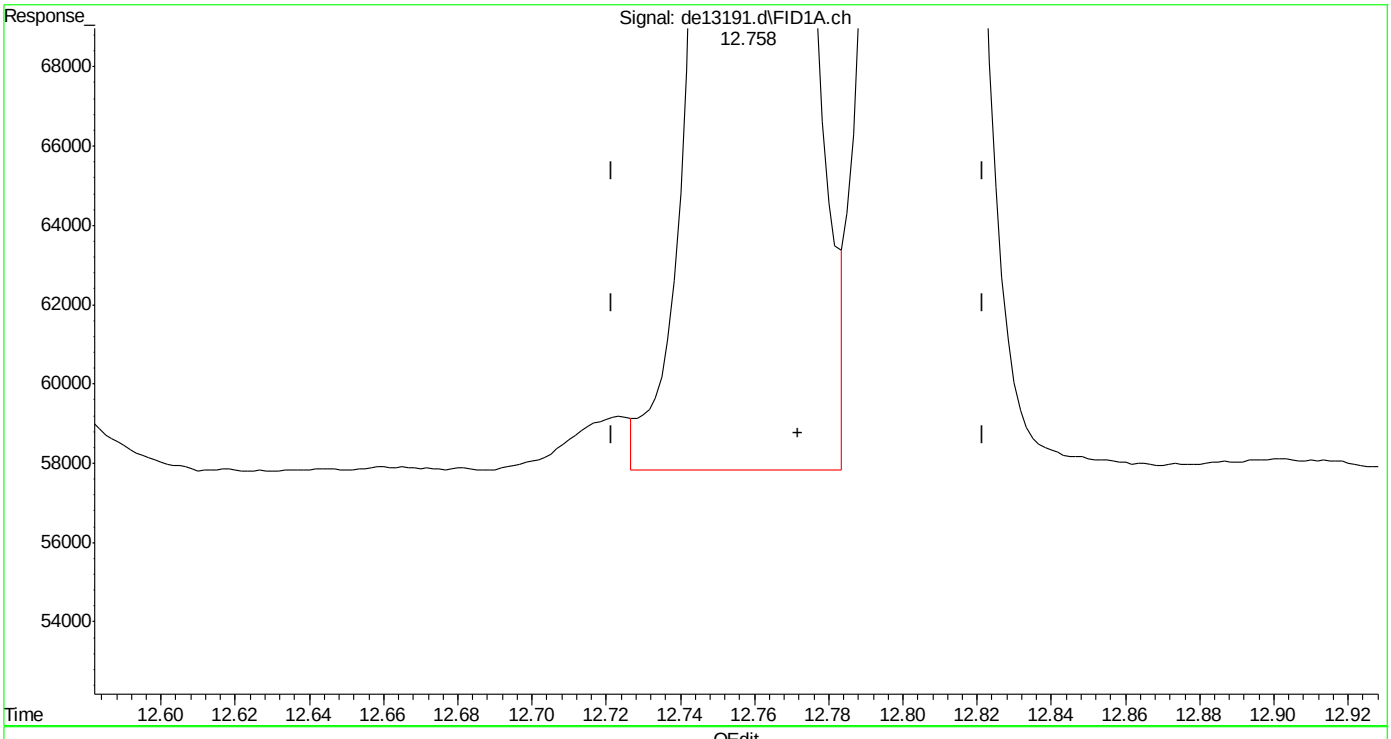
SGS ACCUTEST MC45538

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 Page: 1

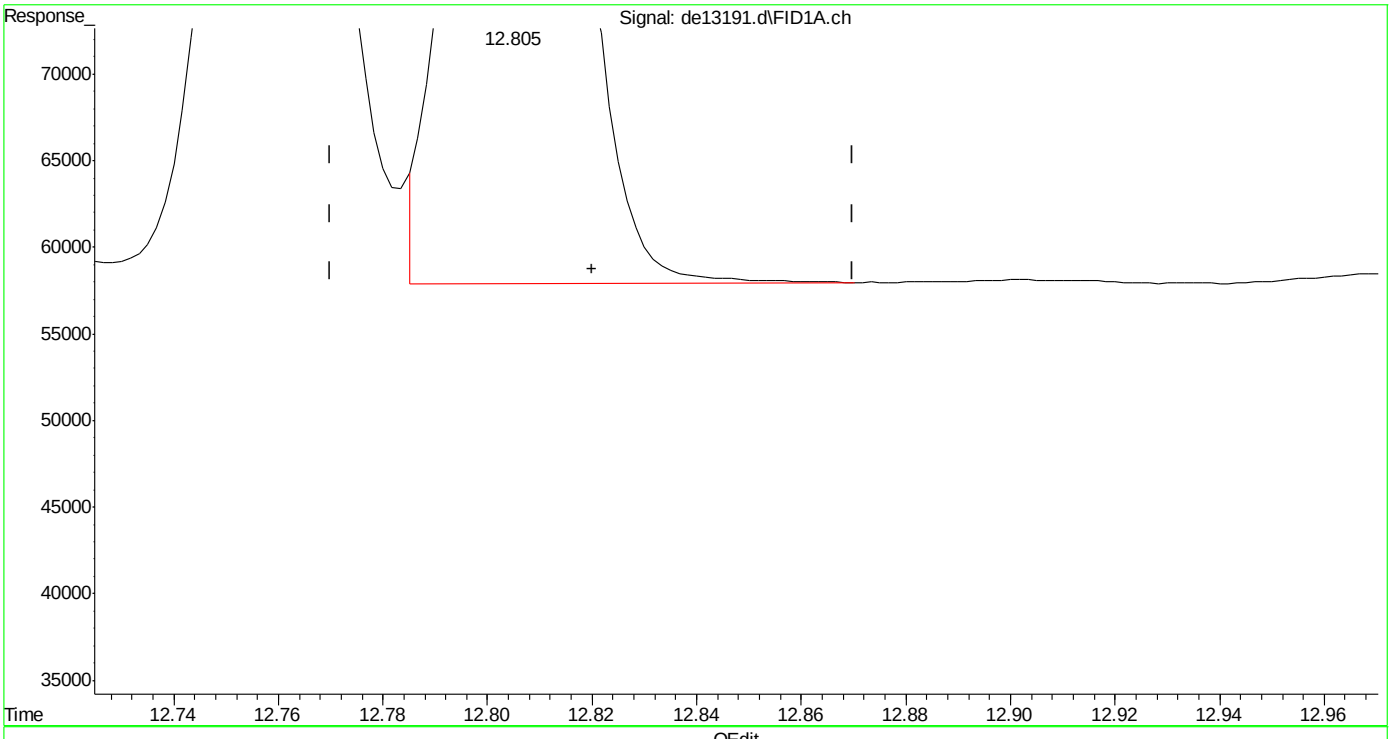
SGS ACCUTEST MC45538

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

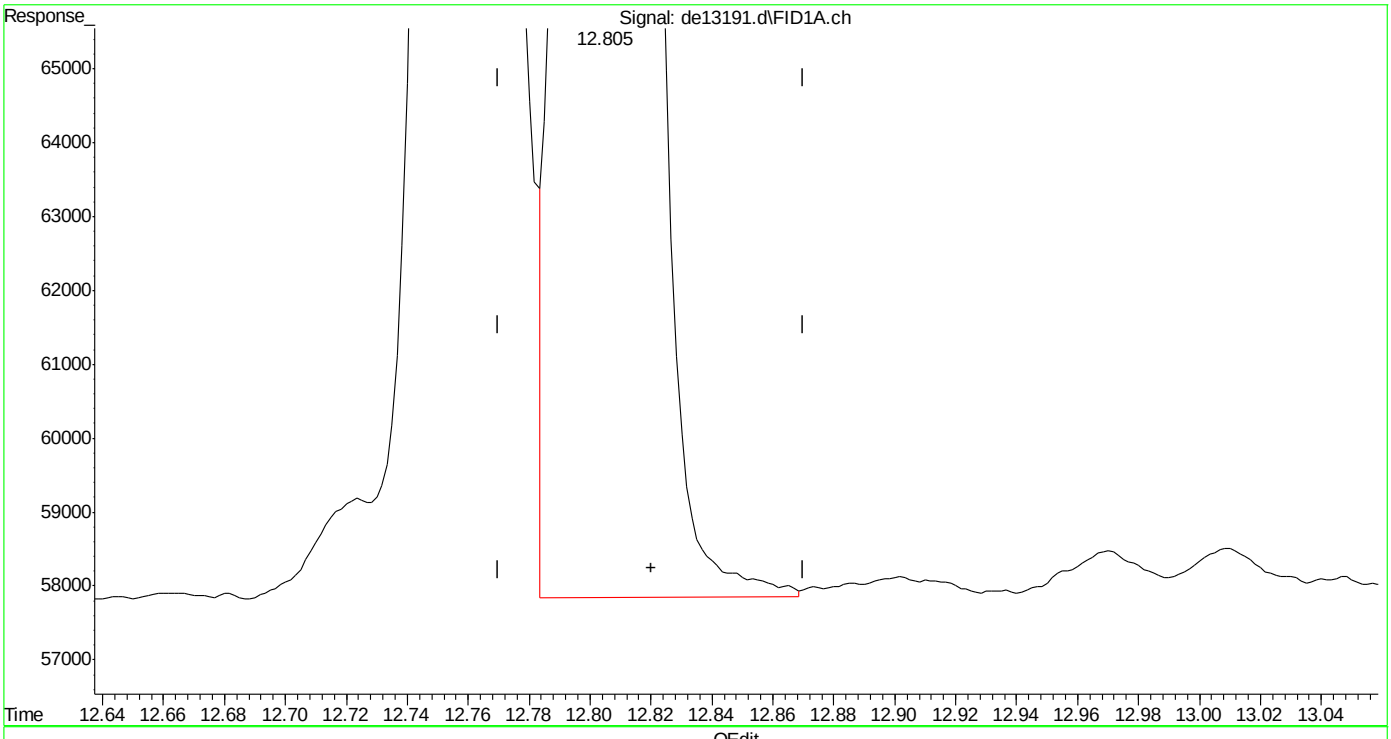
(+) = Expected Retention Time

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

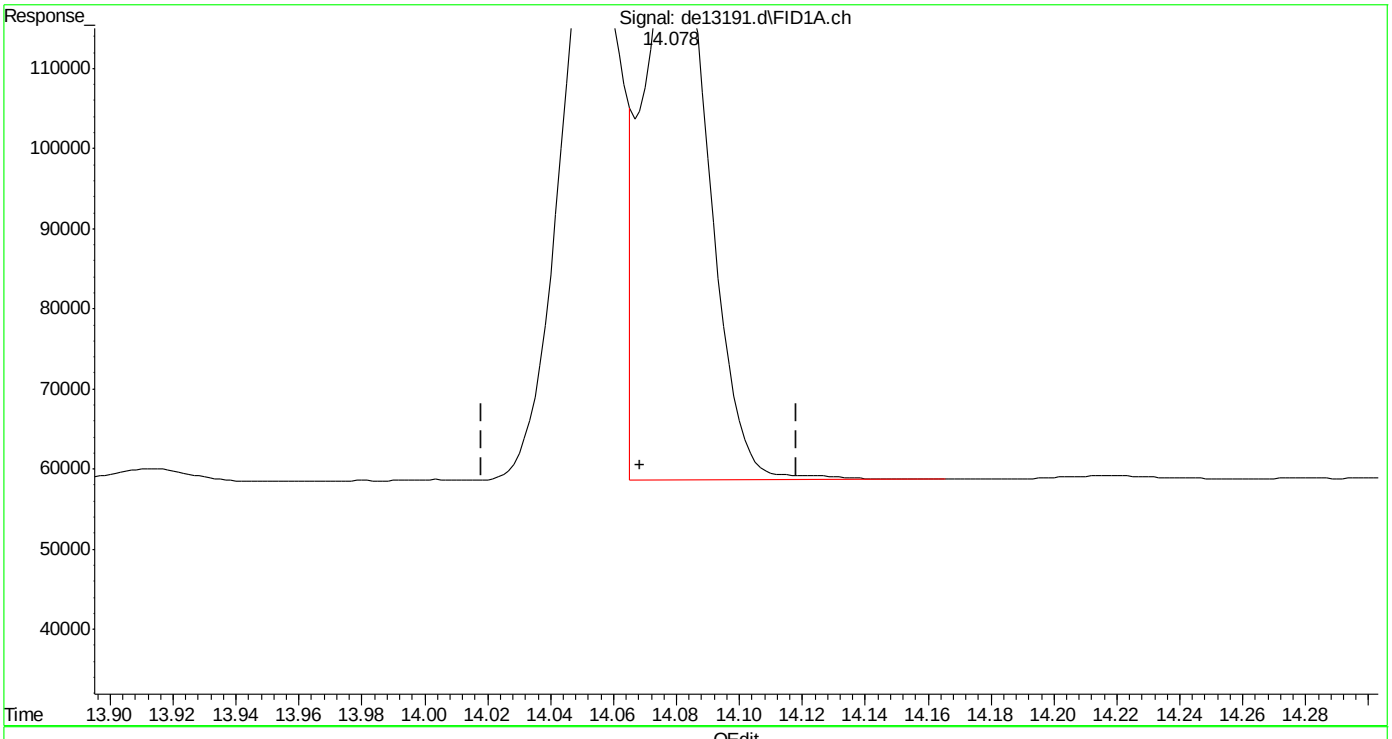
SGS ACCUTEST MC45538

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

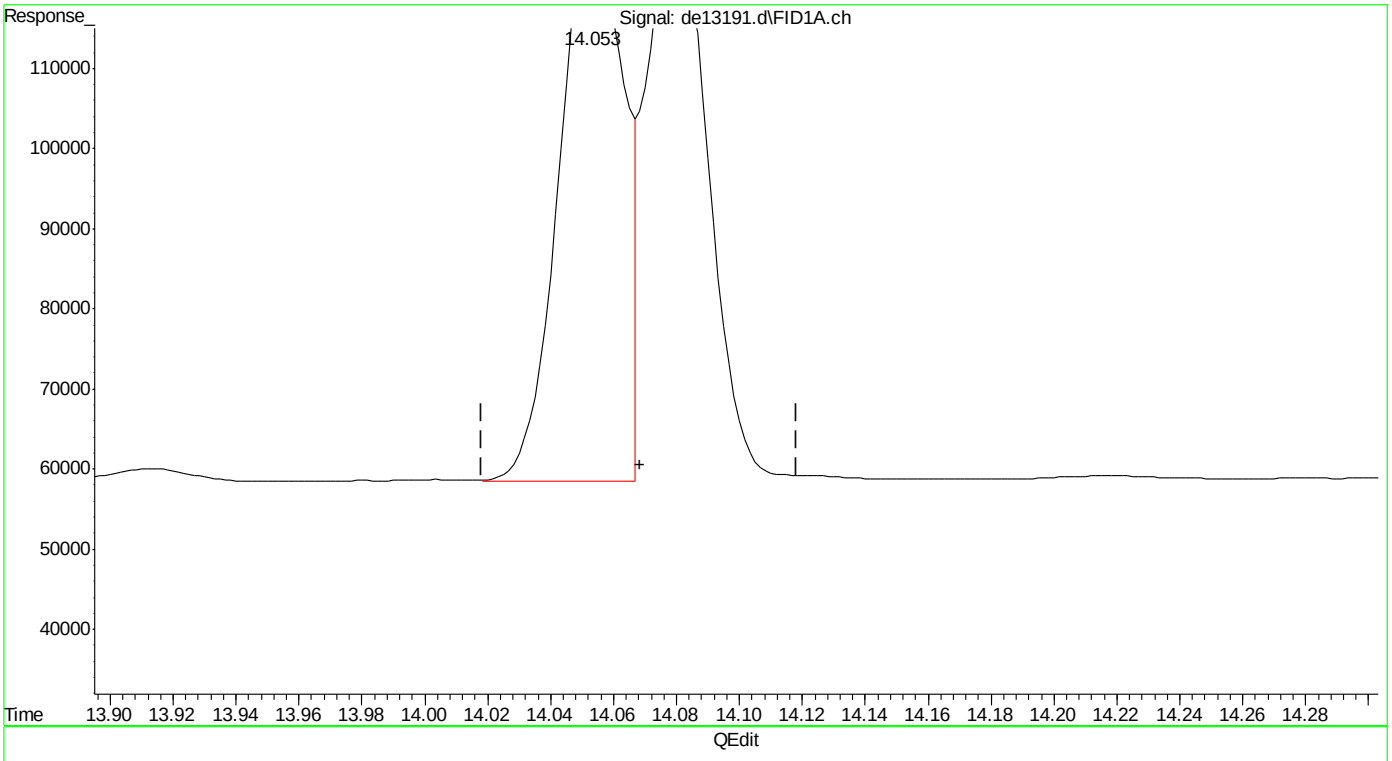
(+) = Expected Retention Time

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

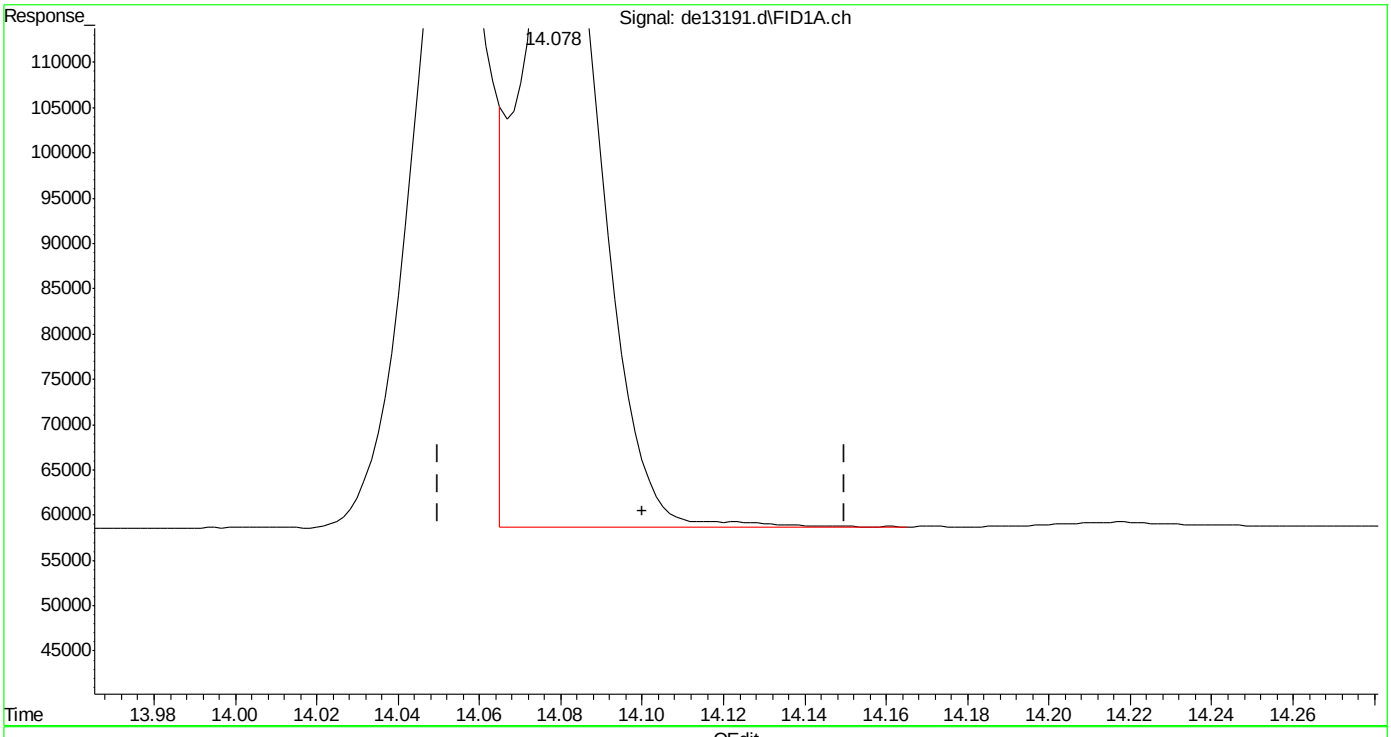
(+) = Expected Retention Time

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

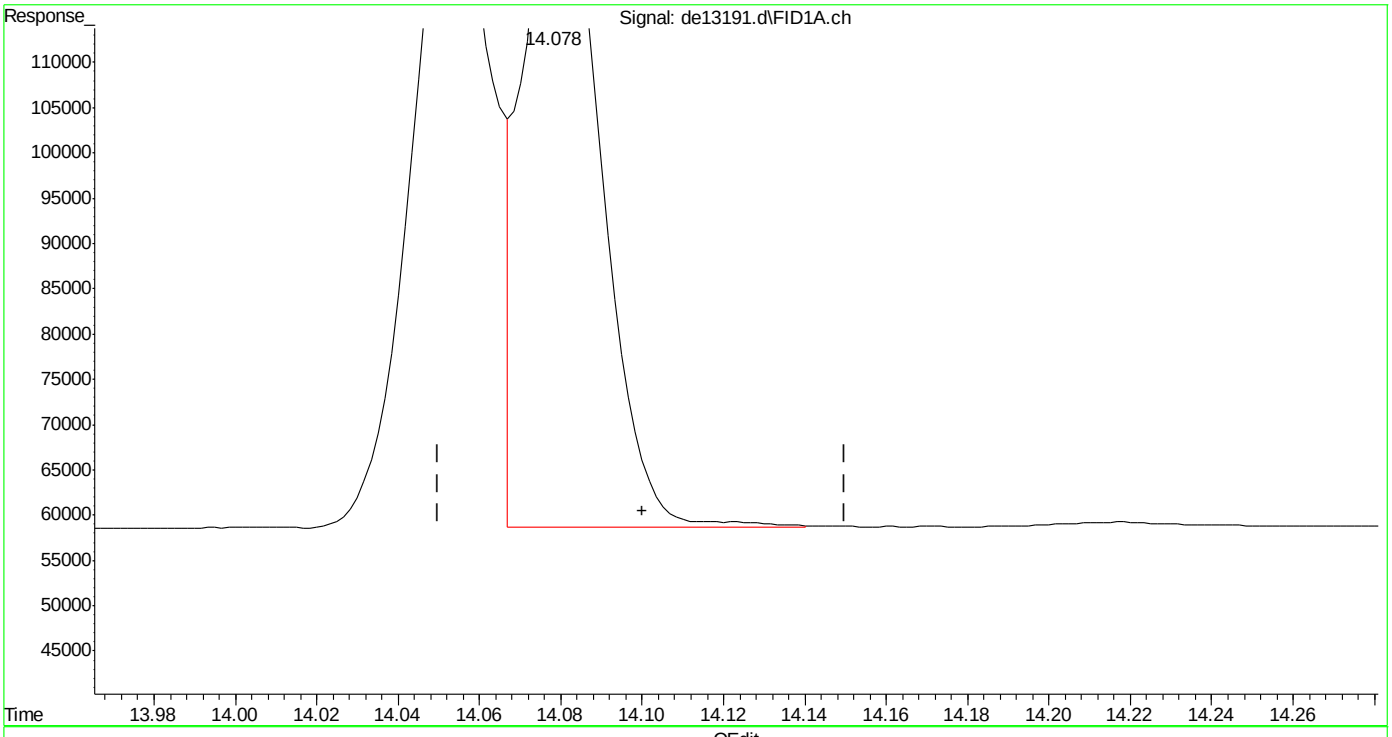
(+) = Expected Retention Time

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

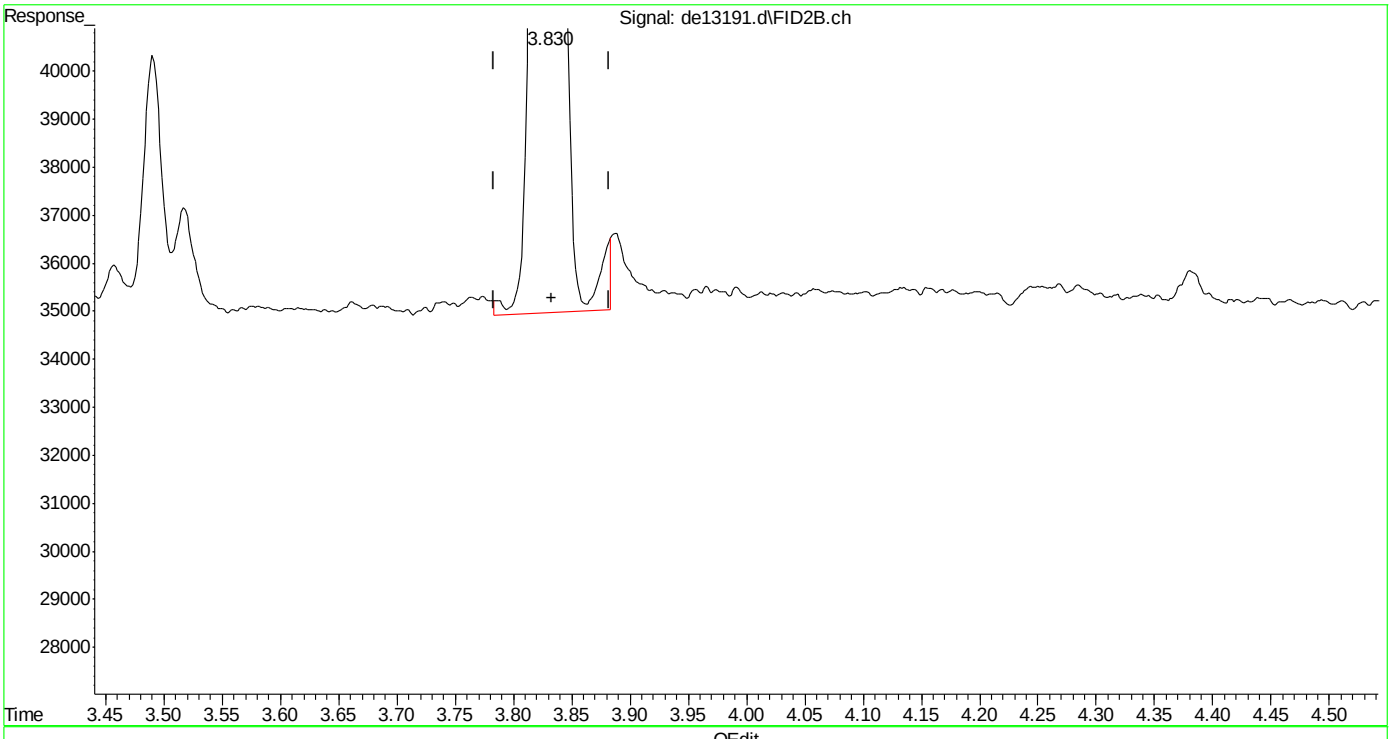
EPH160204M.M Fri Feb 05 10:37:39 2016 Page: 1

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

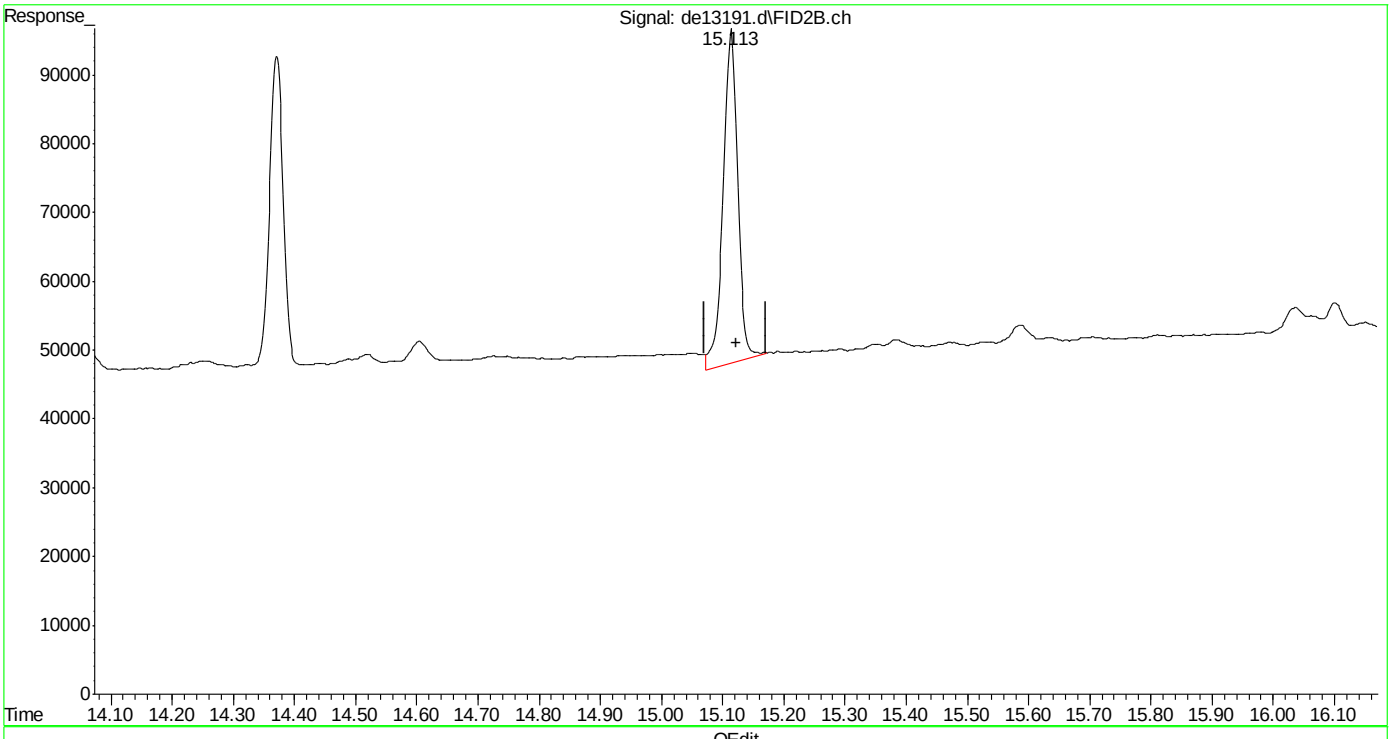
(+) = Expected Retention Time

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

EPH160204M.M Fri Feb 05 10:38:11 2016

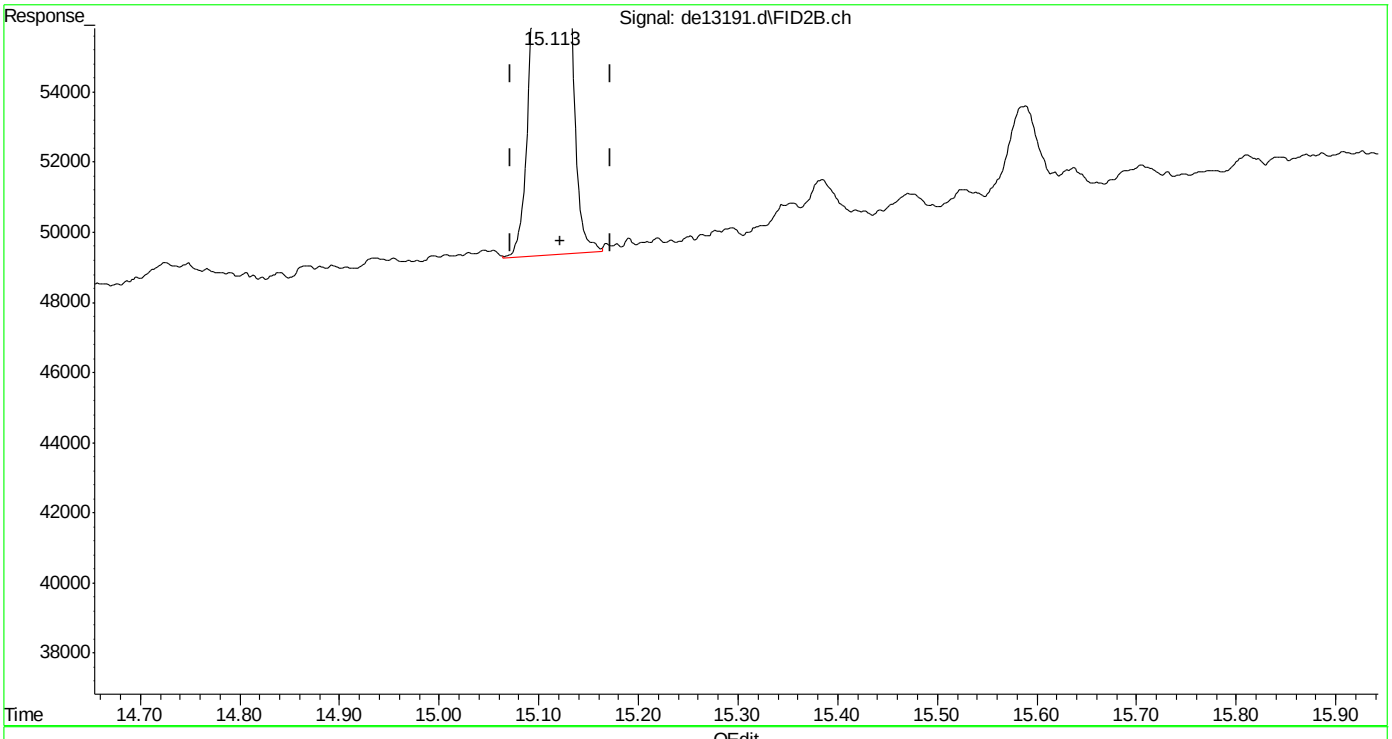
SGS ACCUTEST MC45538

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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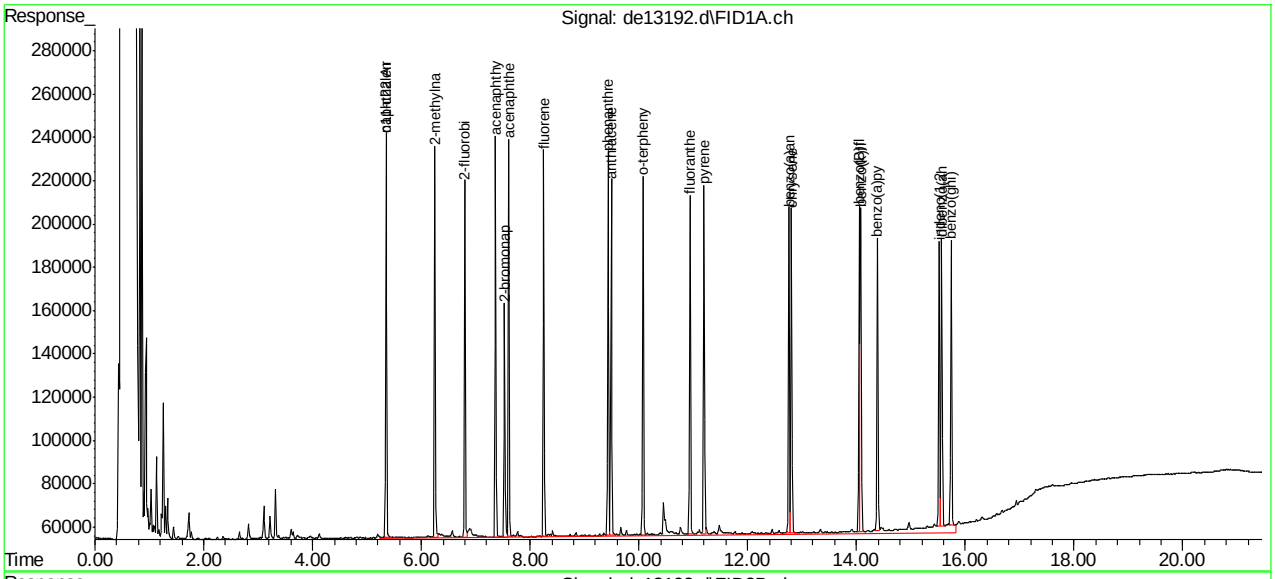
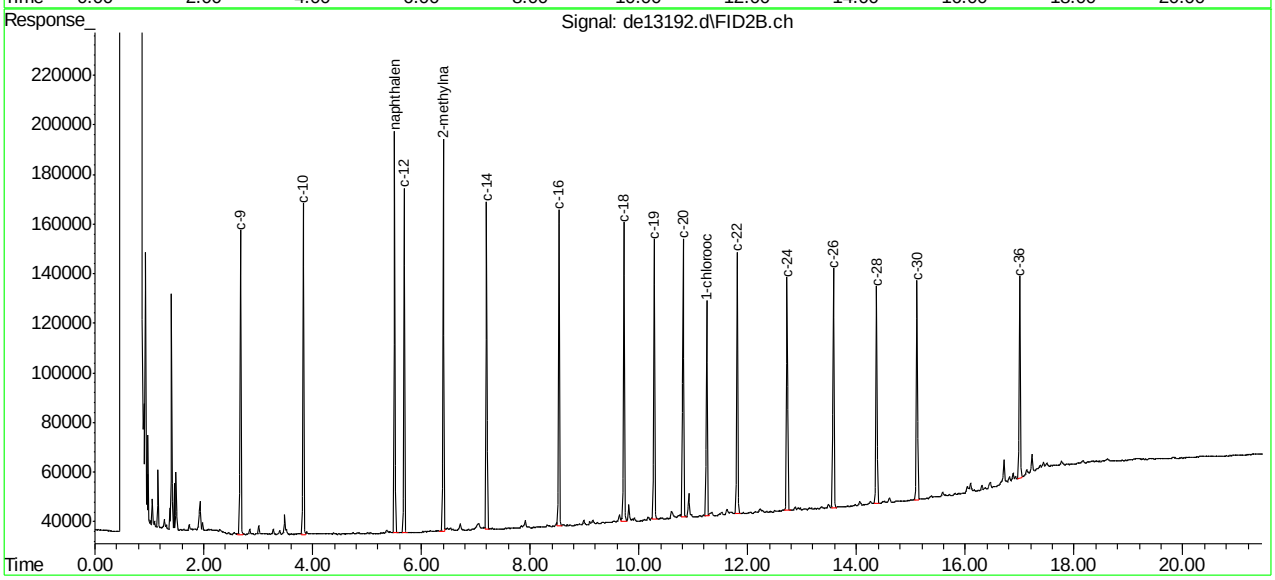
Quantitation Report (QT Reviewed)

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

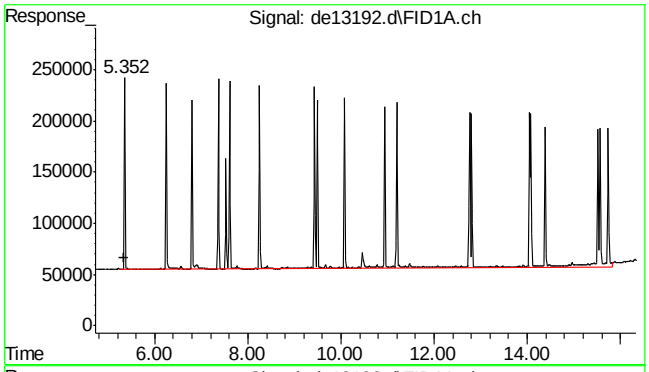
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



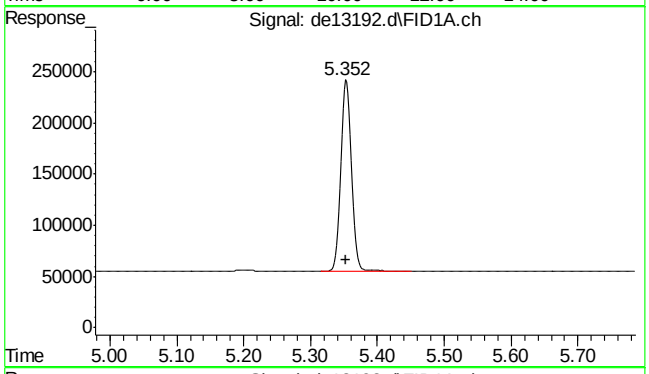


SGS ACCUTEST MC45538



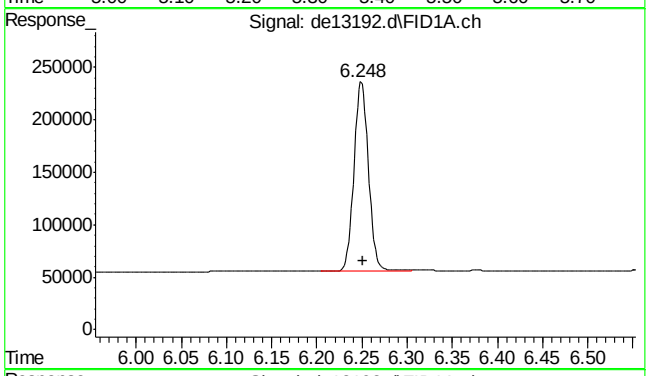
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3994043
Conc: 2.78 µg/ml m



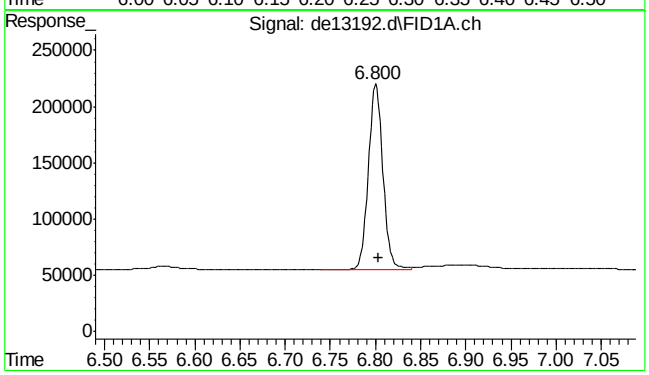
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 205575
Conc: 1.86 µg/ml



#3 2-methylnaphthalene

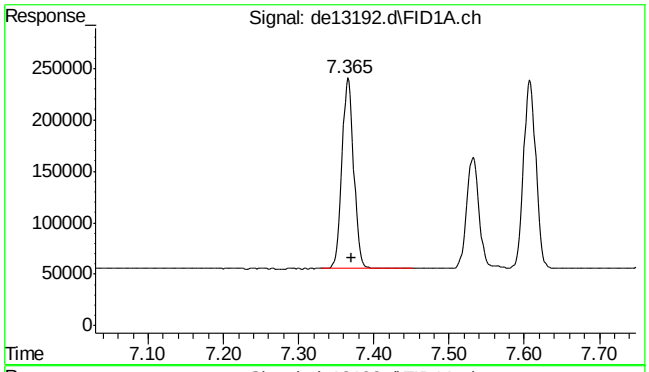
R.T.: 6.248 min
Delta R.T.: -0.003 min
Response: 205018
Conc: 1.88 µg/ml



#4 2-fluorobiphenyl

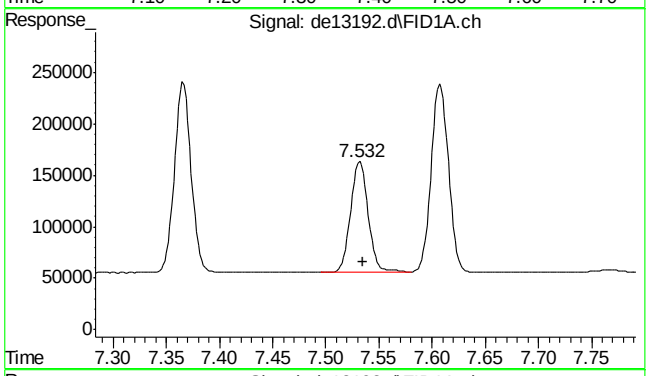
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 184769
Conc: 1.88 µg/ml

SGS ACCUTEST MC45538



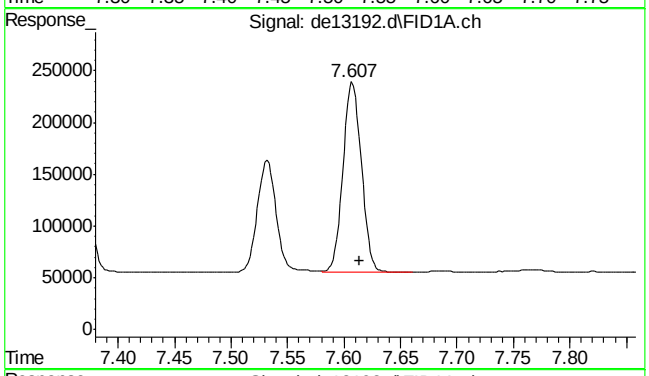
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 202426
Conc: 1.88 µg/ml



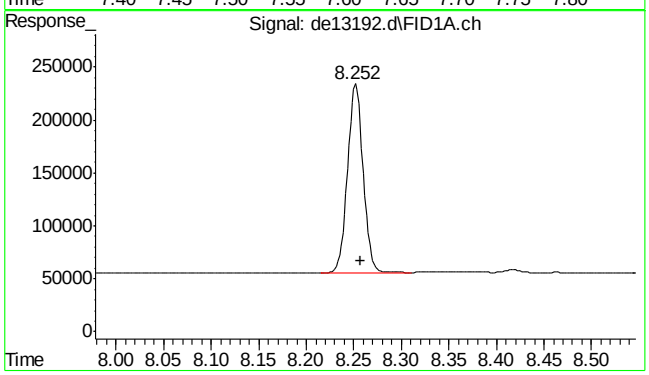
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 125964
Conc: 1.89 µg/ml



#7 acenaphthene

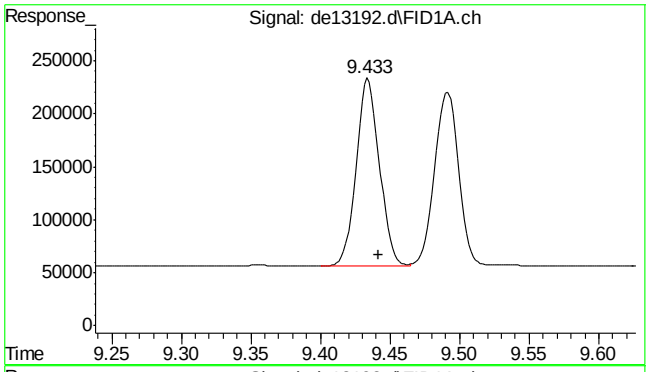
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 207471
Conc: 1.89 µg/ml



#8 fluorene

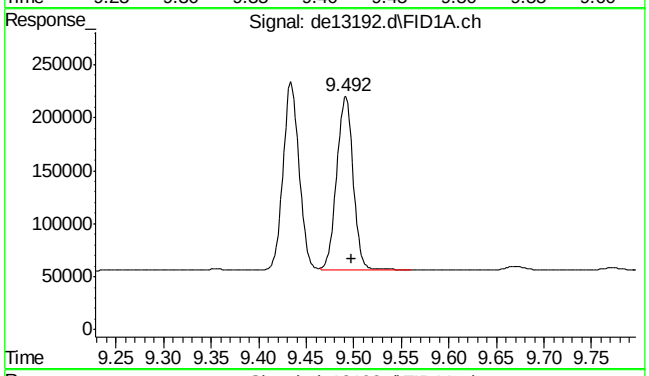
R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 204542
Conc: 1.90 µg/ml

SGS ACCUTEST MC45538



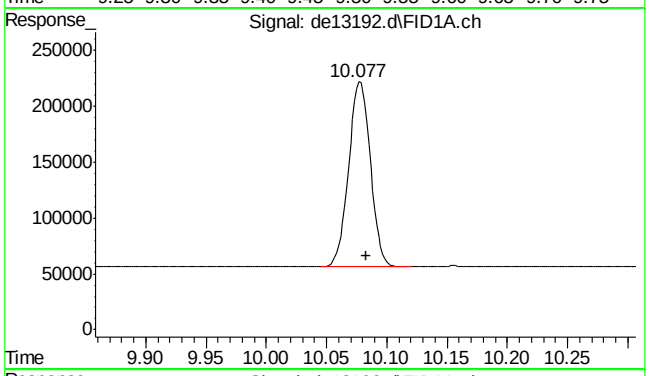
#9 phenanthrene

R.T.: 9.433 min
Delta R.T.: -0.008 min
Response: 207031
Conc: 1.94 µg/ml



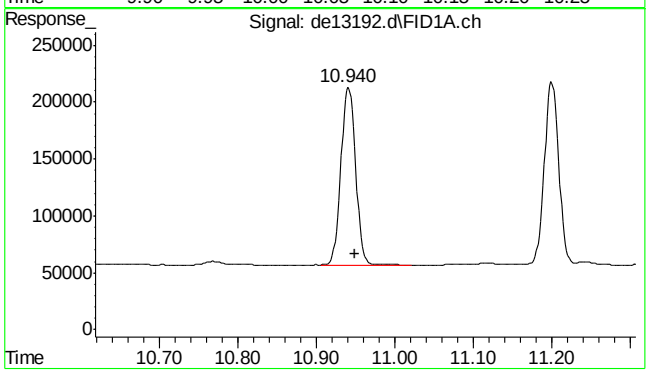
#10 anthracene

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

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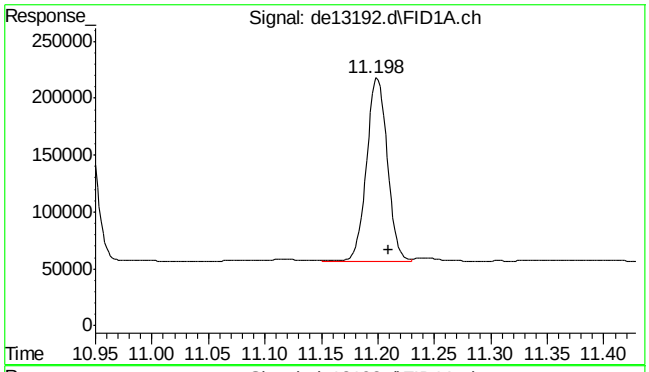
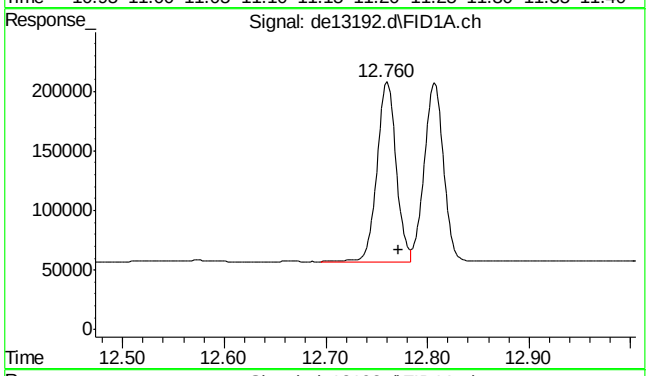


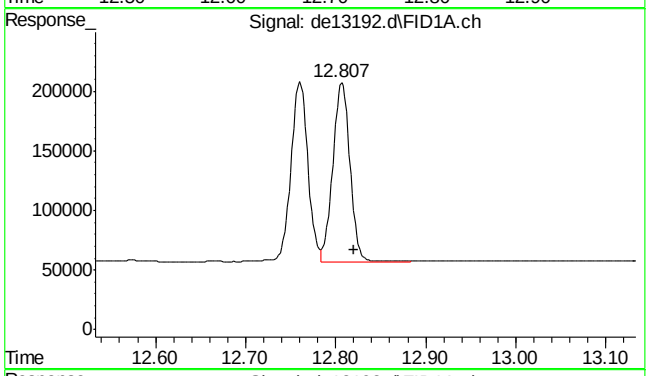
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 206224
Conc: 1.97 µg/ml



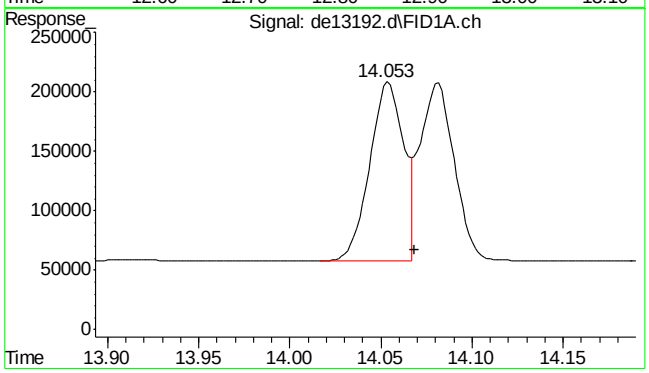
#14 benzo(a)anthracene

R.T.: 12.760 min
Delta R.T.: -0.012 min
Response: 197822
Conc: 2.01 µg/ml m



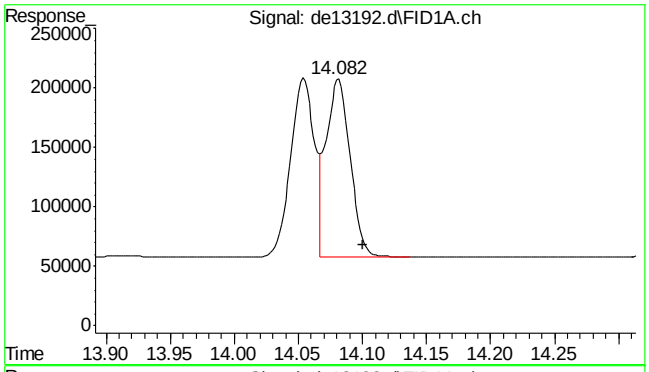
#15 chrysene

R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 197927
Conc: 1.99 µg/ml m



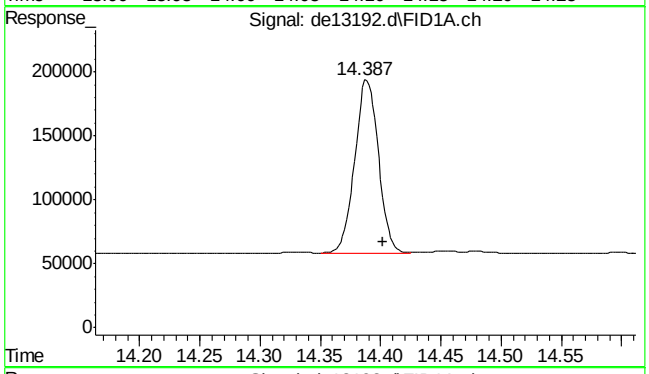
#16 benzo(B)fluoranthene

R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 197572
Conc: 1.94 µg/ml m



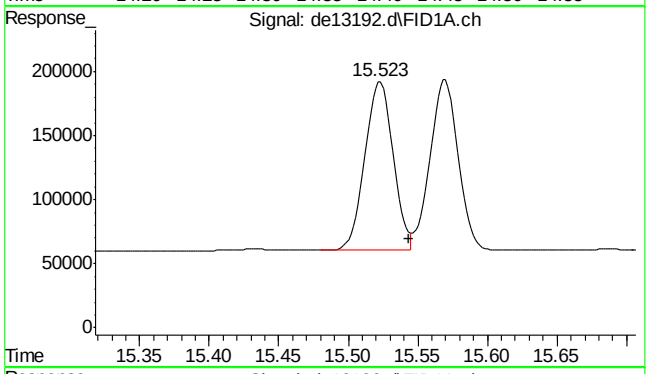
#17 benzo(k)fluoranthene

R.T.: 14.082 min
Delta R.T.: -0.018 min
Response: 193855
Conc: 1.99 µg/ml m



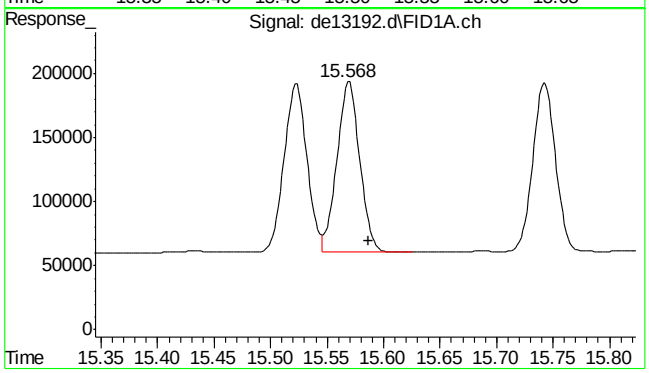
#18 benzo(a)pyrene

R.T.: 14.387 min
Delta R.T.: -0.015 min
Response: 184685
Conc: 1.91 µg/ml



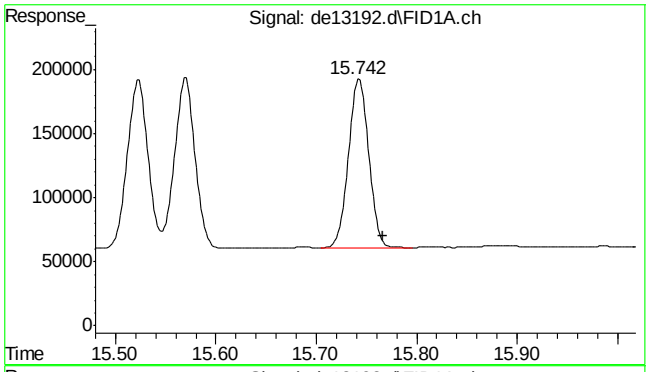
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.523 min
Delta R.T.: -0.020 min
Response: 186820
Conc: 1.91 µg/ml



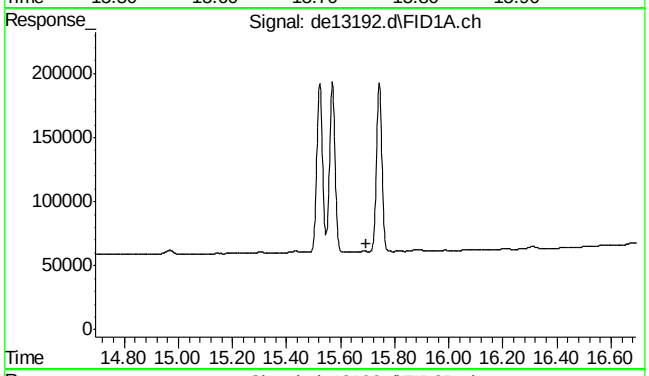
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 185980
Conc: 1.98 µg/ml



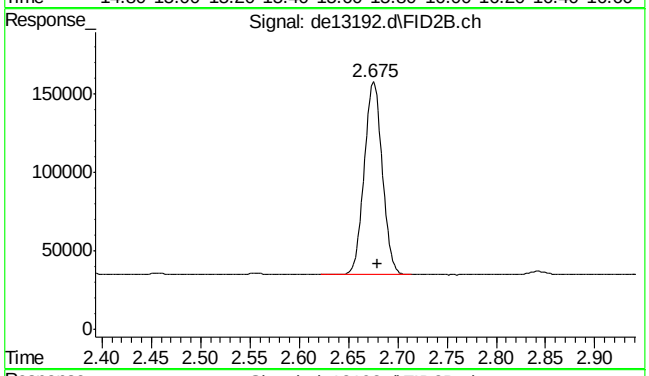
#21 benzo(ghi)perylene

R.T.: 15.742 min
Delta R.T.: -0.025 min
Response: 184915
Conc: 1.96 µg/ml



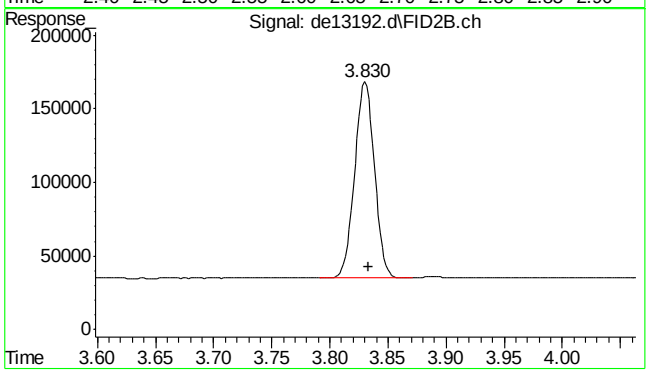
#22 bht

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

9.5.2

9

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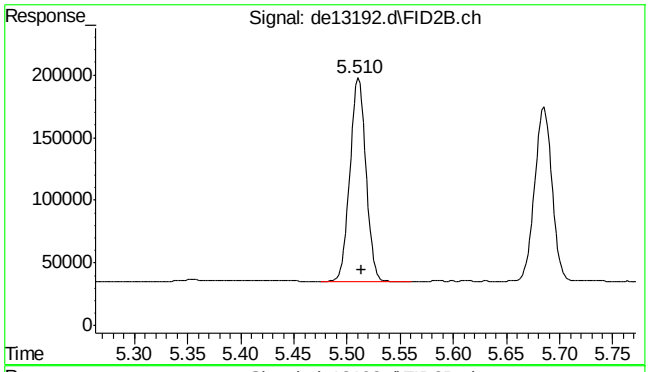
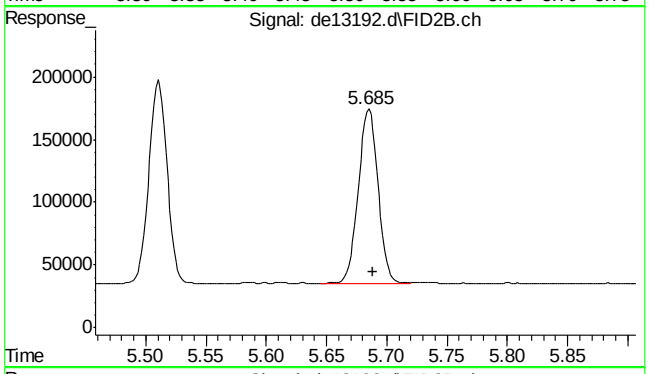


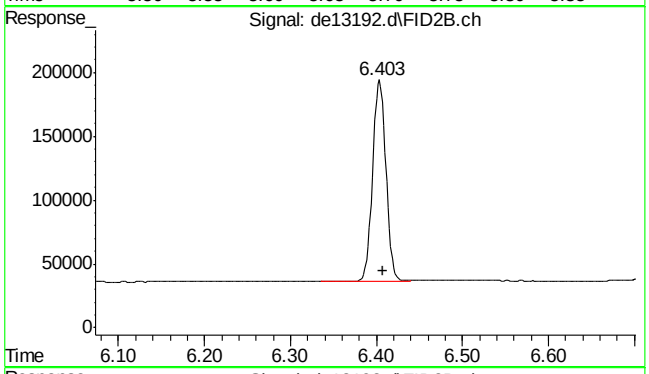
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 169071
Conc: 2.18 µg/ml



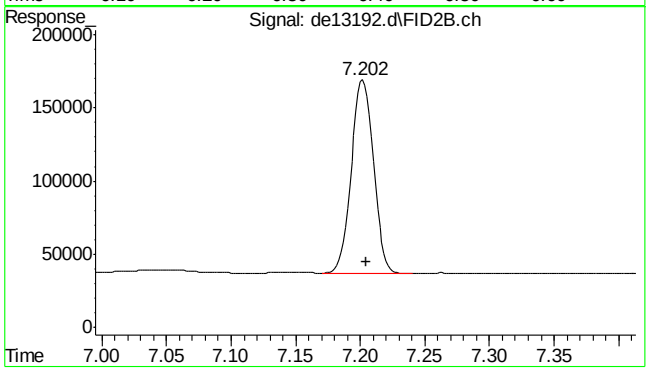
#28 c-12

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



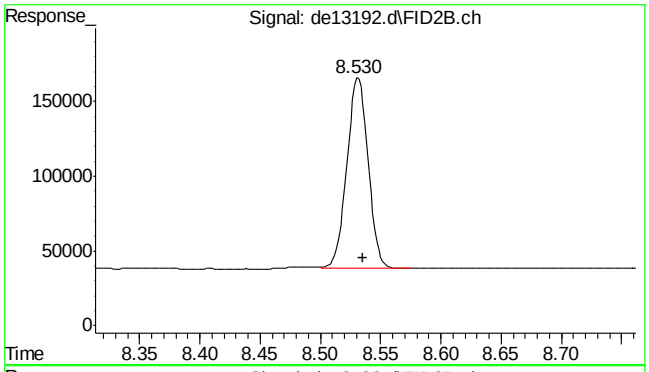
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 157636
Conc: 2.13 µg/ml

9.5.2

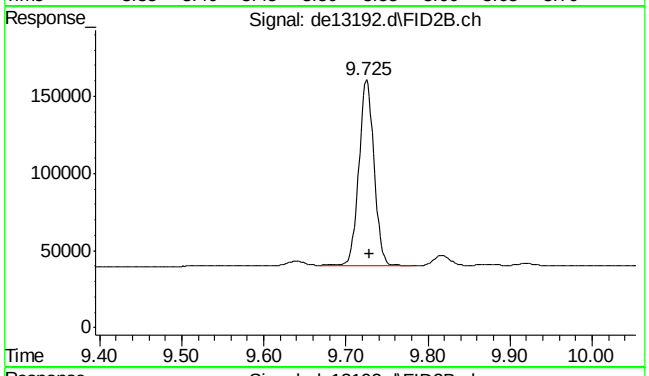
9

SGS ACCUTEST MC45538



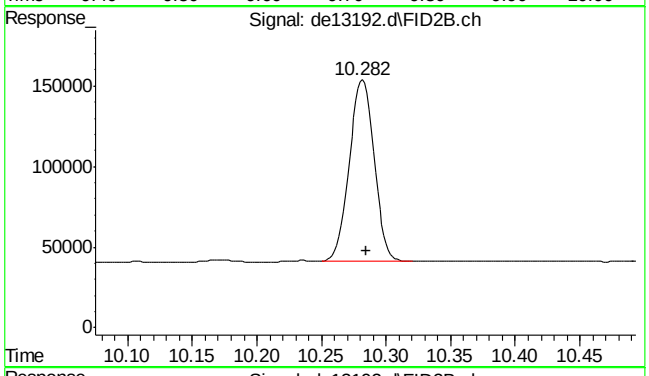
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 156773
Conc: 2.12 µg/ml



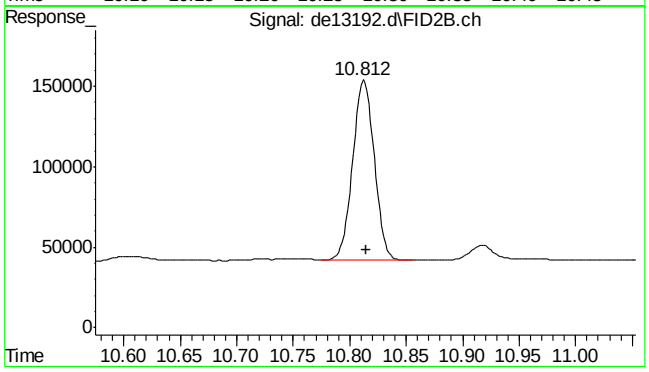
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 154646
Conc: 2.11 µg/ml



#33 c-19

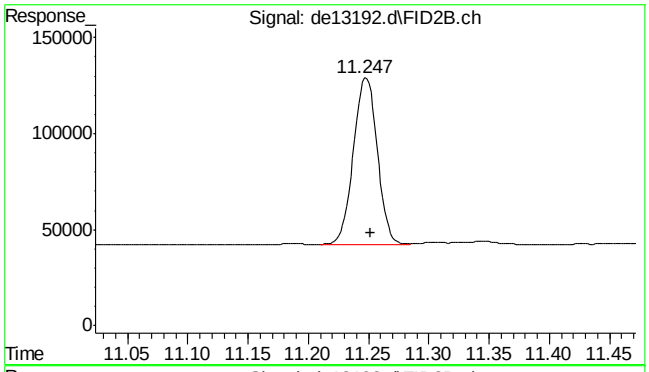
R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 151034
Conc: 2.13 µg/ml



#34 c-20

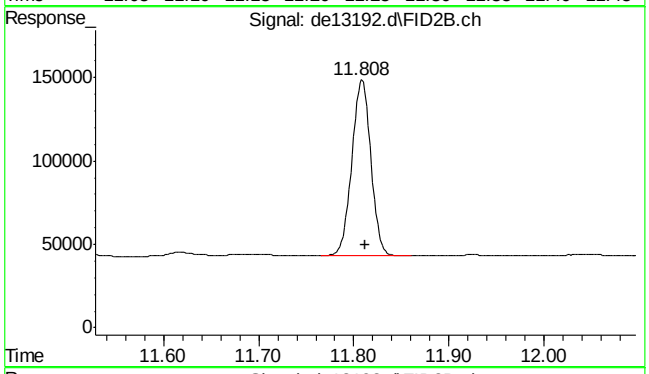
R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 148378
Conc: 2.13 µg/ml

SGS ACCUTEST MC45538



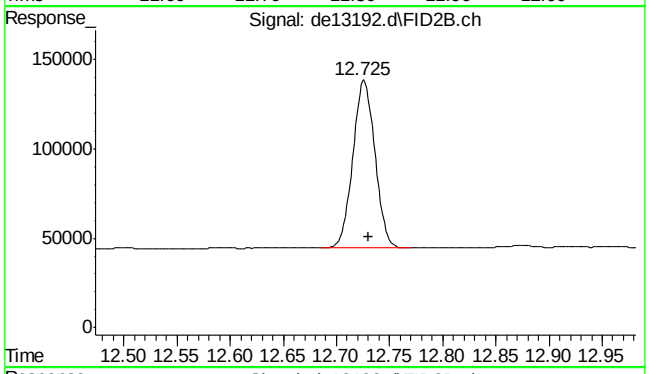
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 119513
Conc: 2.17 µg/ml



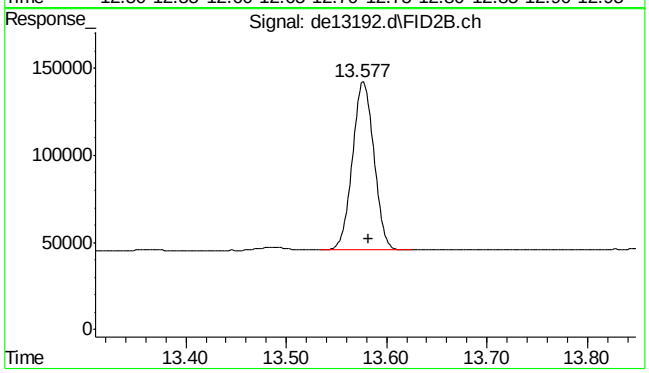
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 146070
Conc: 2.12 µg/ml



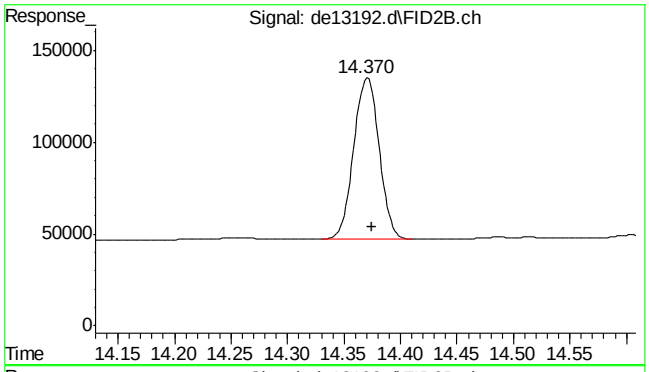
#37 c-24

R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 135579
Conc: 2.05 µg/ml



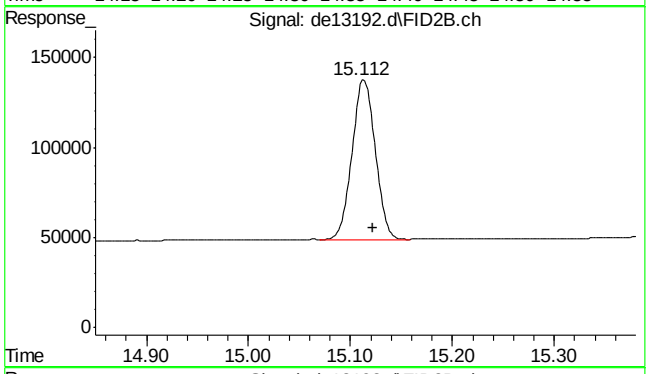
#38 c-26

R.T.: 13.577 min
Delta R.T.: -0.005 min
Response: 142920
Conc: 2.09 µg/ml



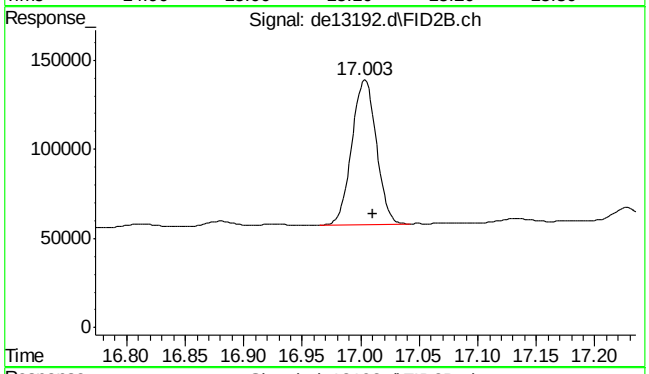
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 137233
Conc: 2.06 µg/ml



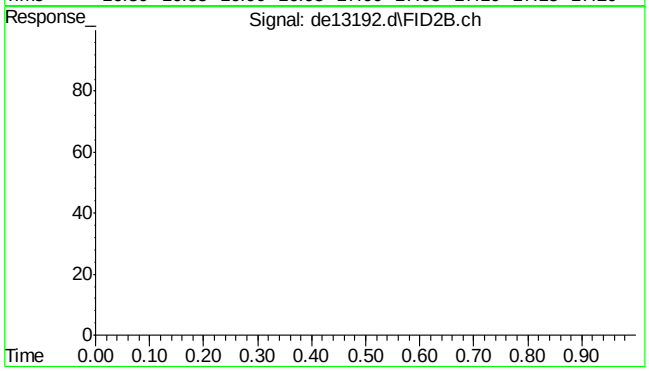
#40 c-30

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



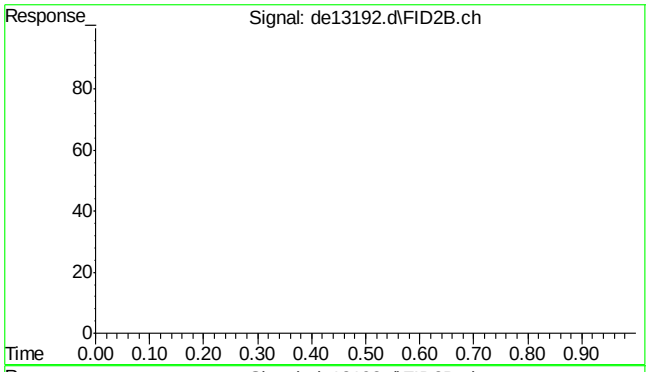
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.2

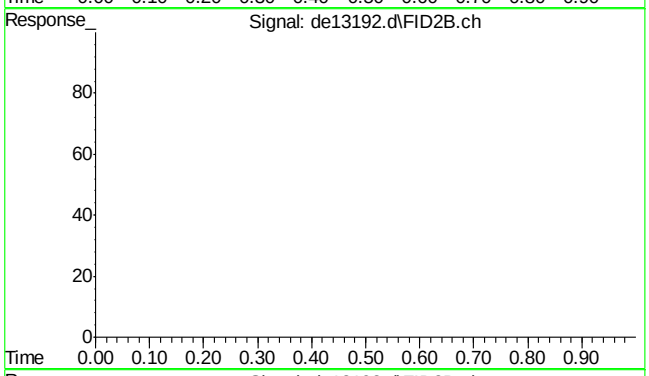
9

SGS ACCUTEST MC45538



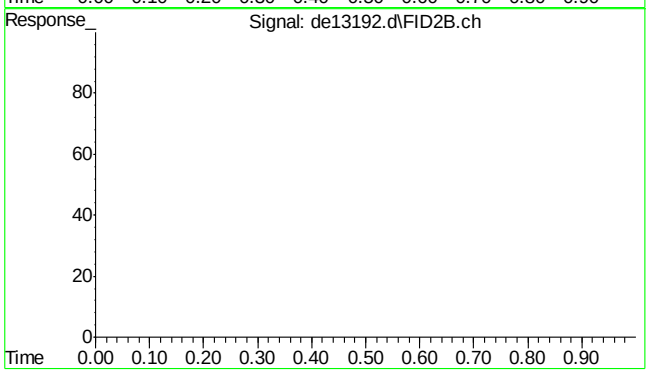
#43 bht

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.

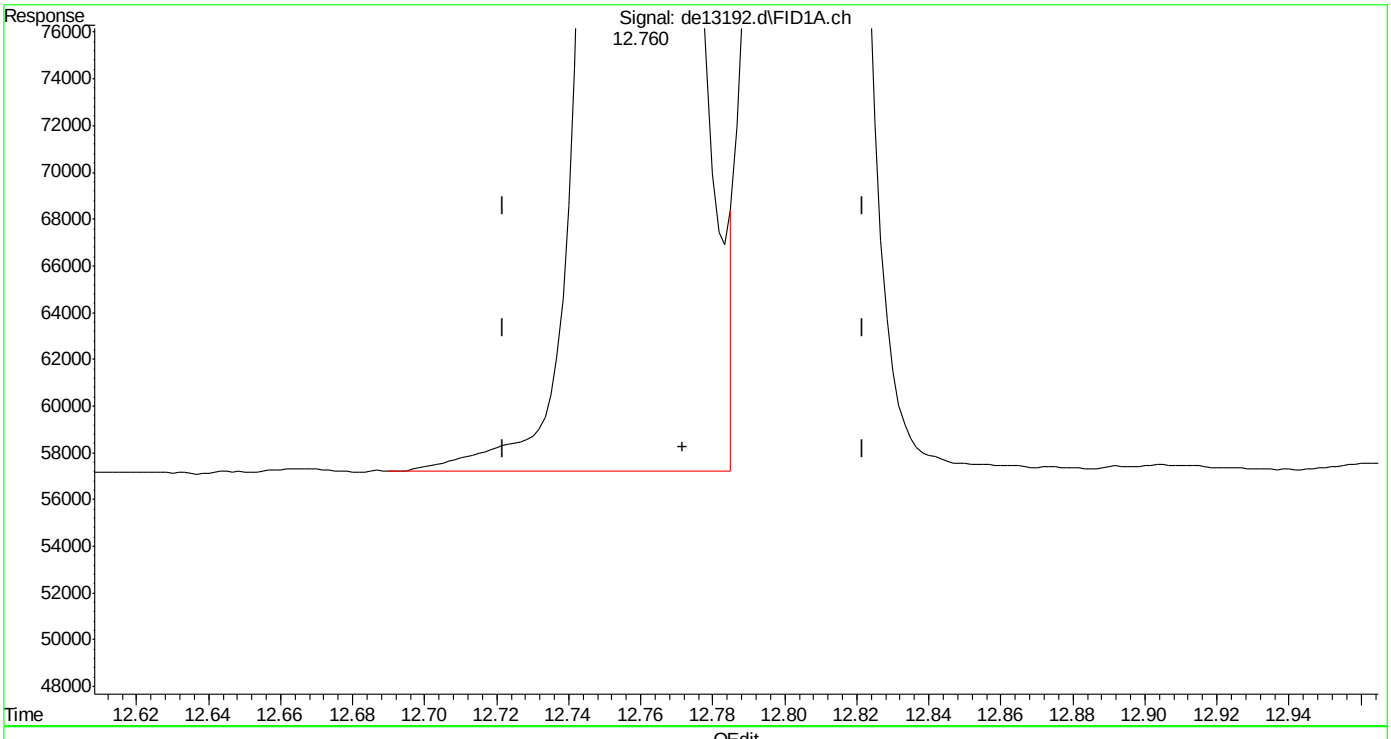
SGS ACCUTEST MC45538

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

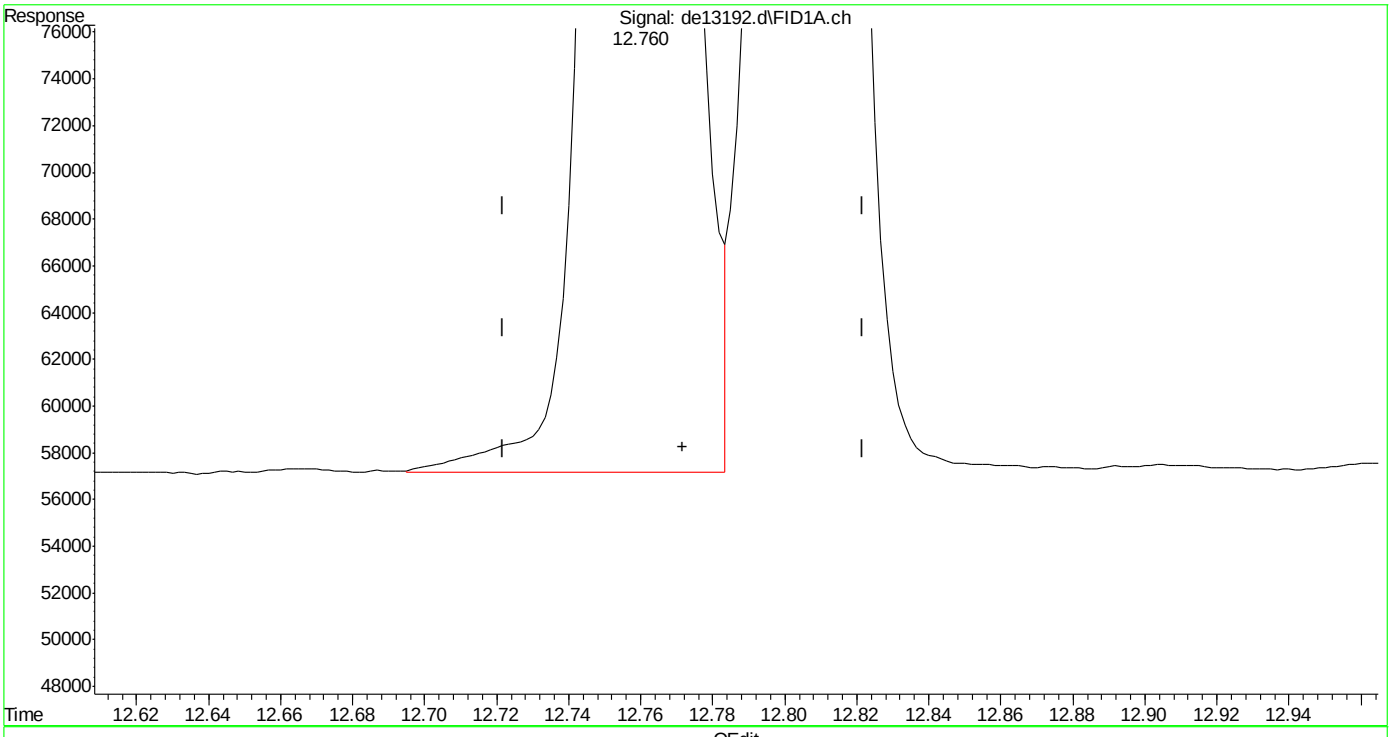
(+) = Expected Retention Time

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

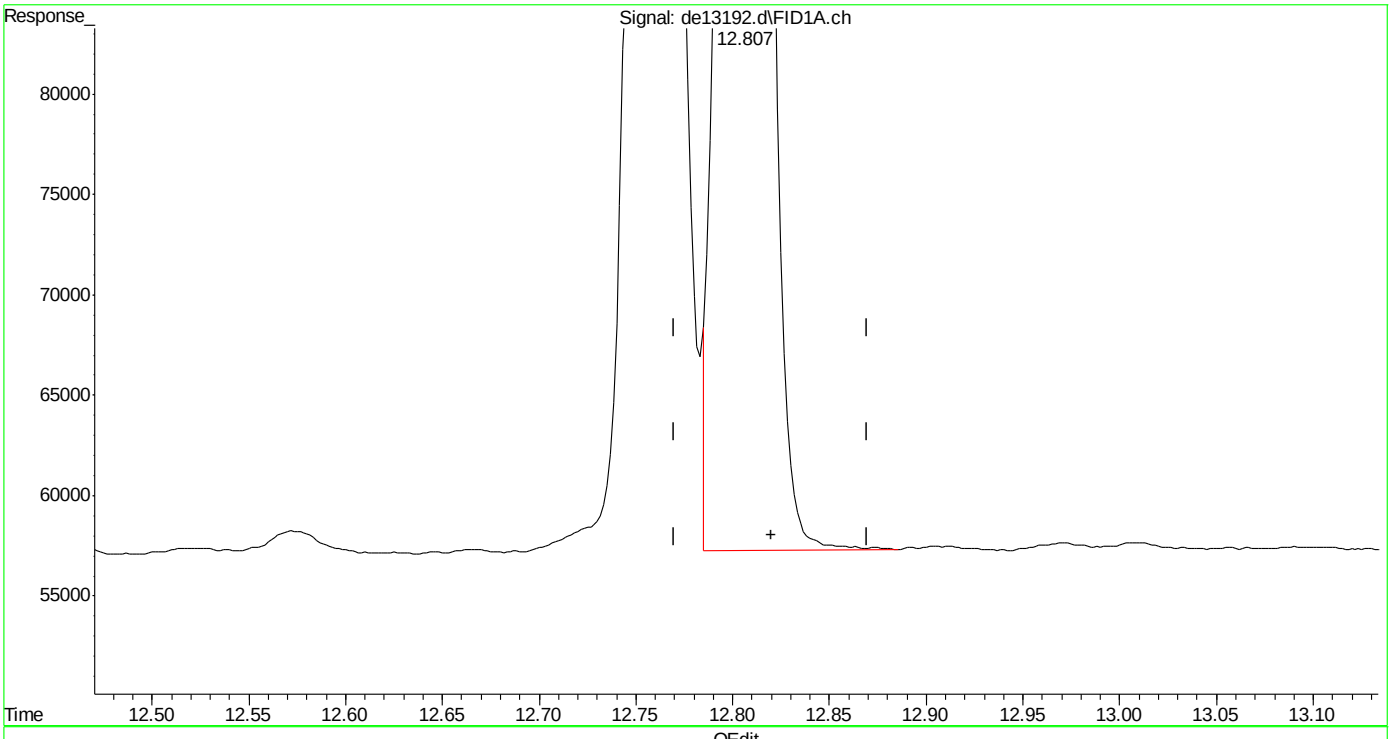
(+) = Expected Retention Time

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
EPH160204M.M Fri Feb 05 10:39:49 2016

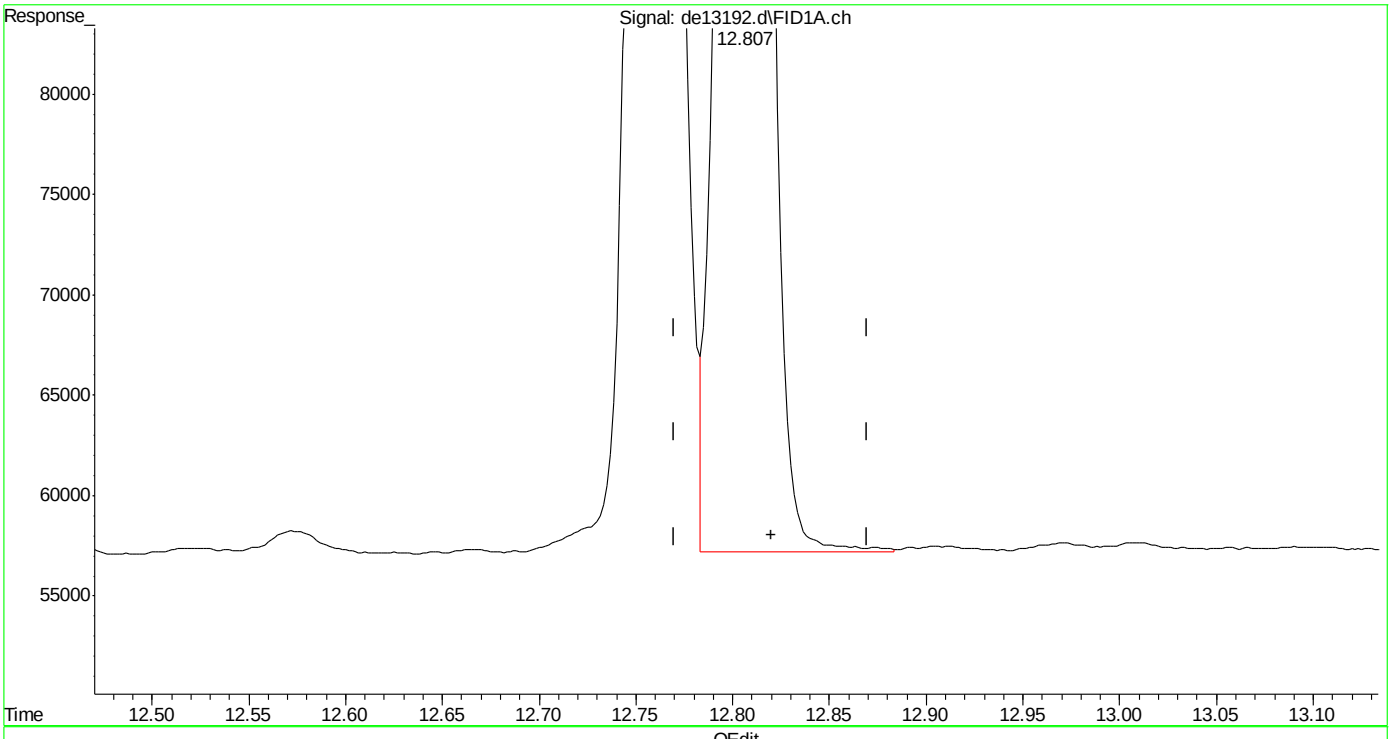
SGS ACCUTEST MC45538

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

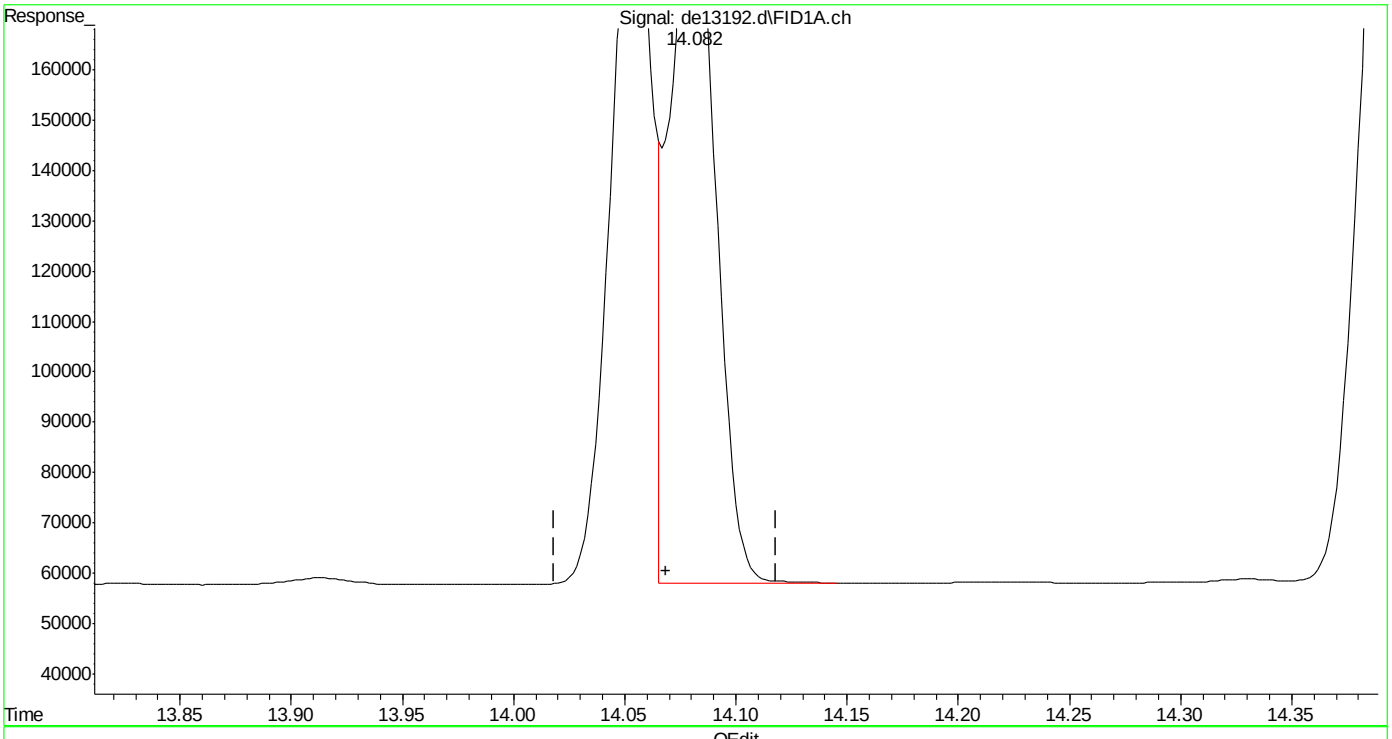
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:40:19 2016

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

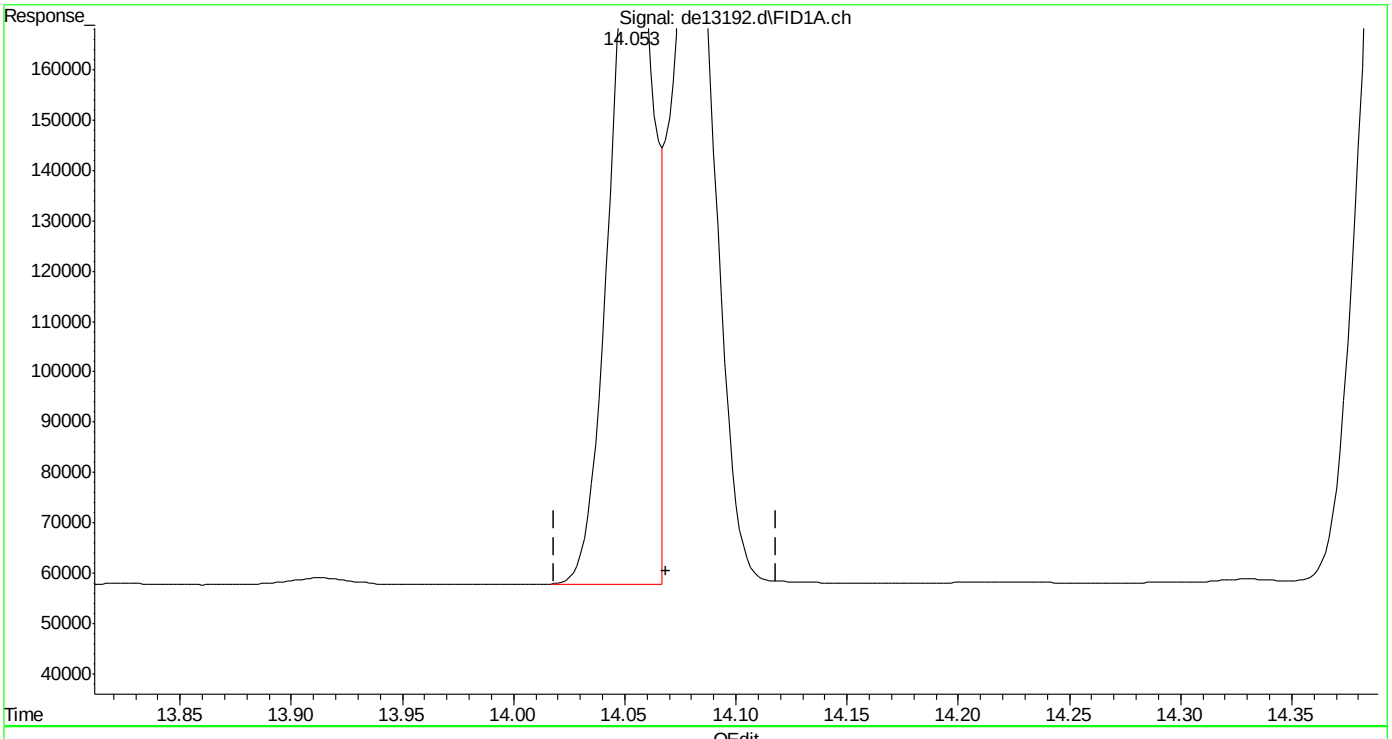
SGS ACCUTEST MC45538

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

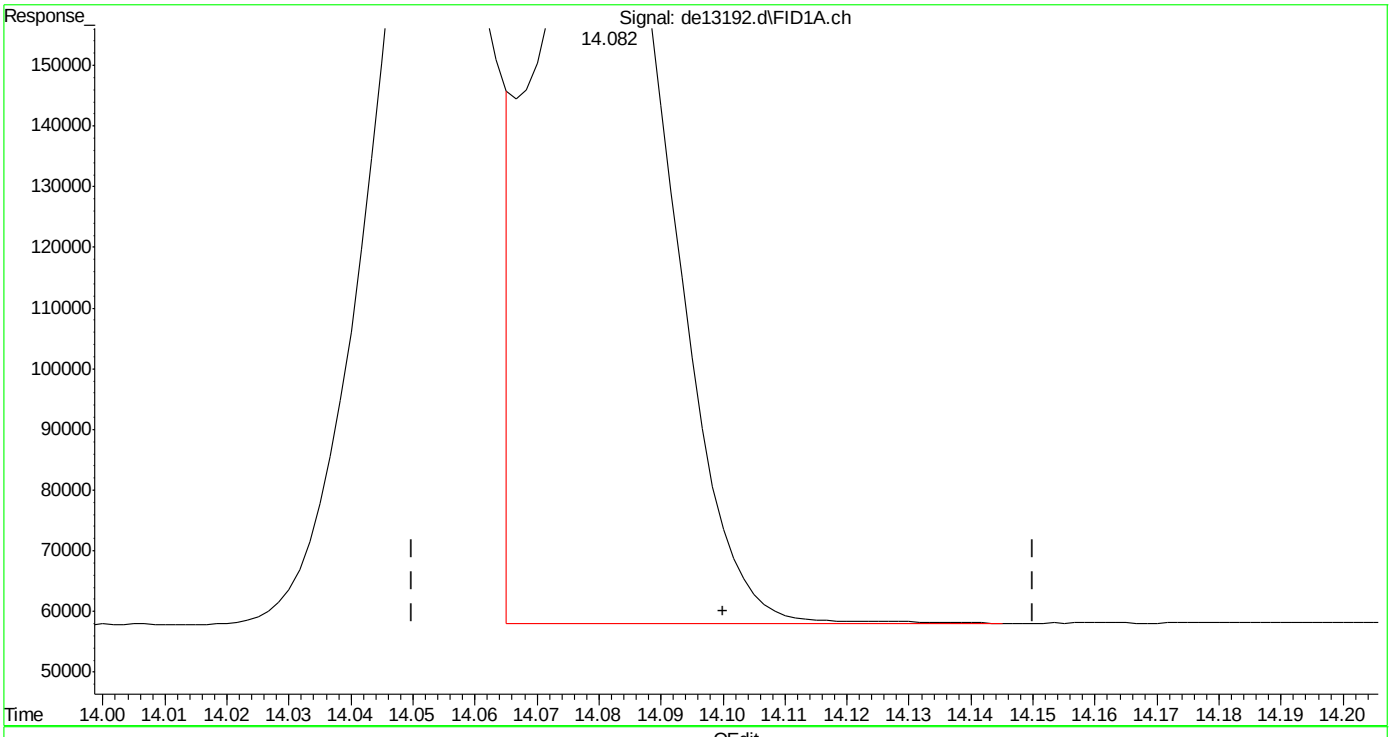
SGS ACCUTEST MC45538

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

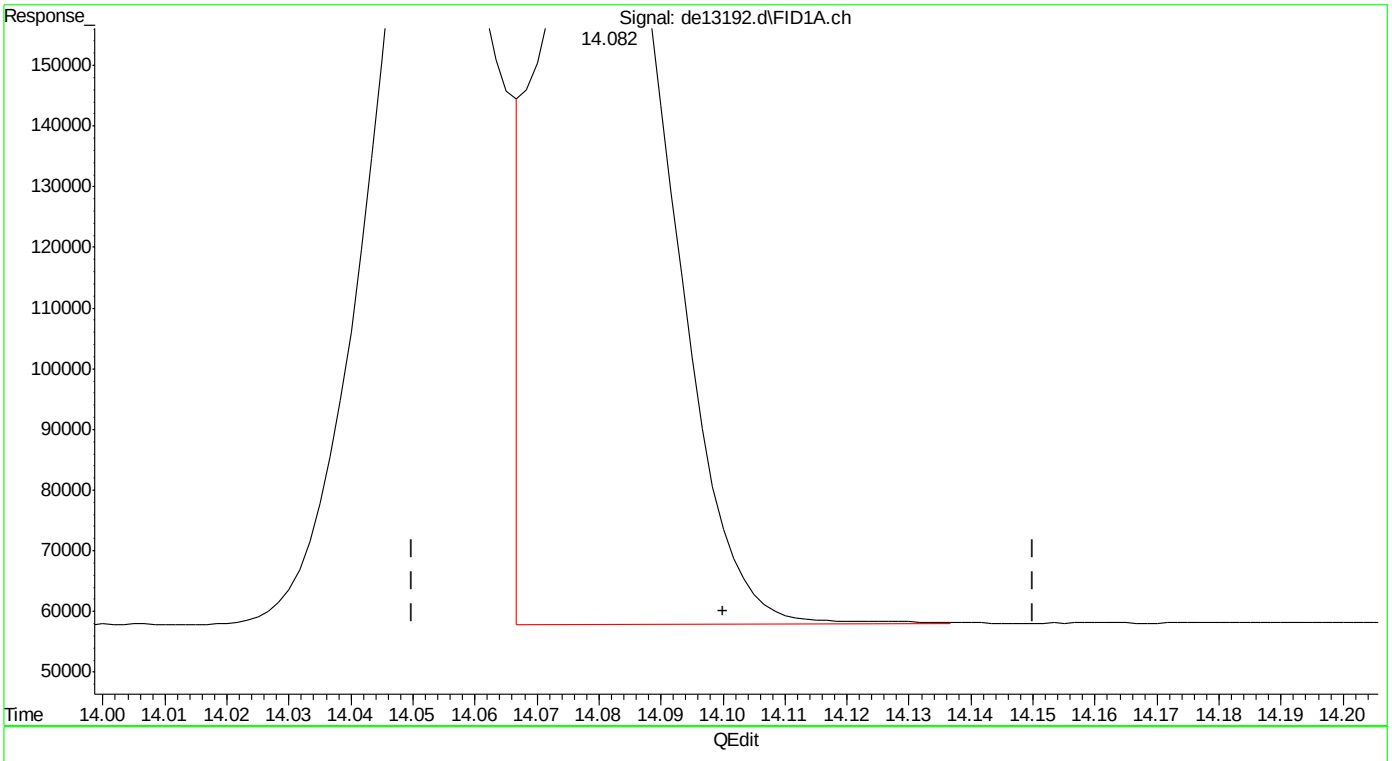
(+) = Expected Retention Time

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

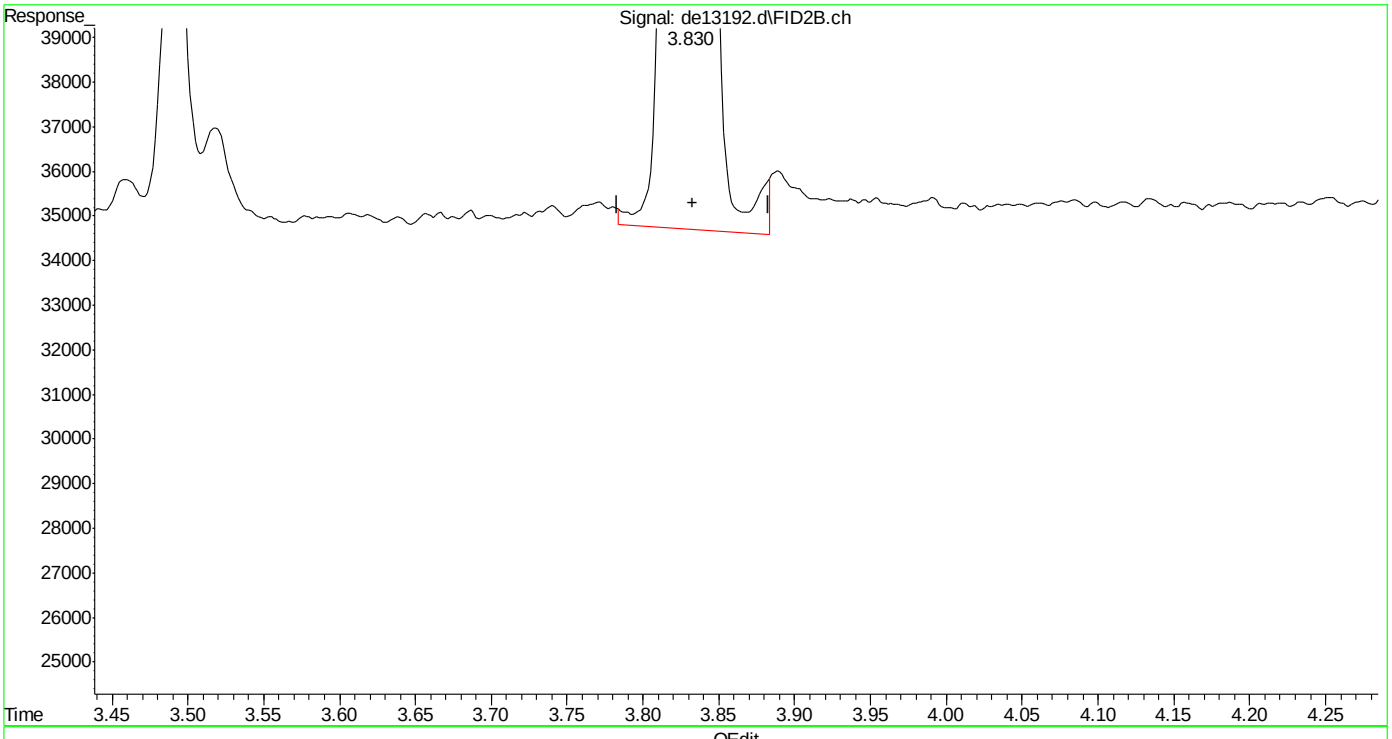
(+) = Expected Retention Time

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

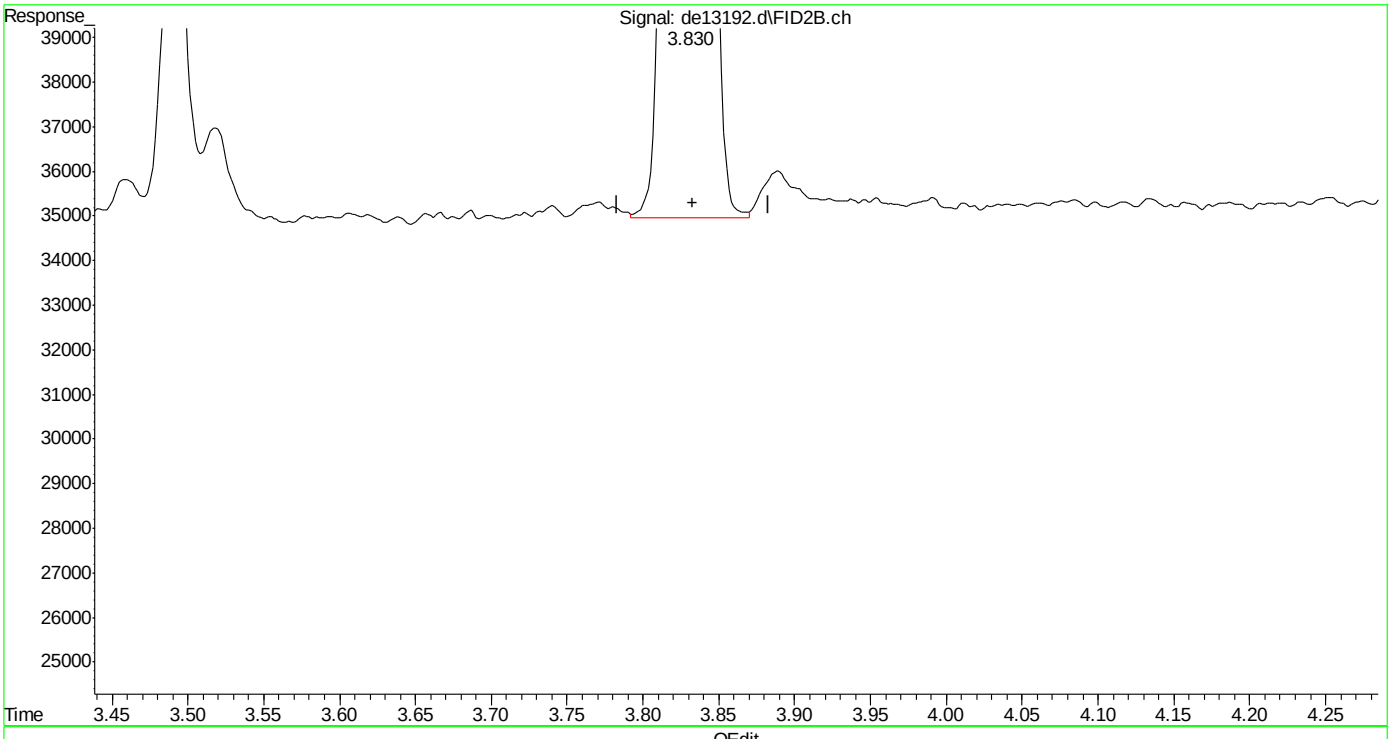
(+) = Expected Retention Time

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

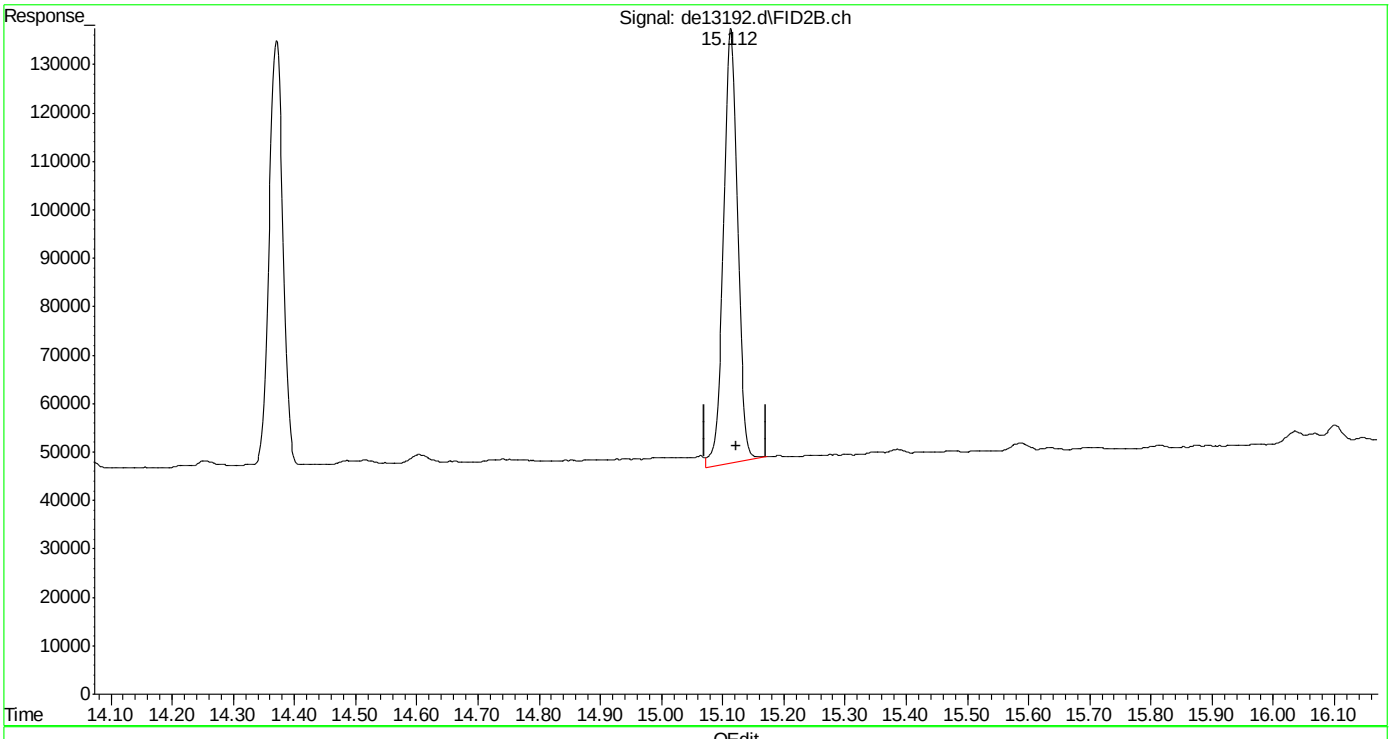
SGS ACCUTEST MC45538

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

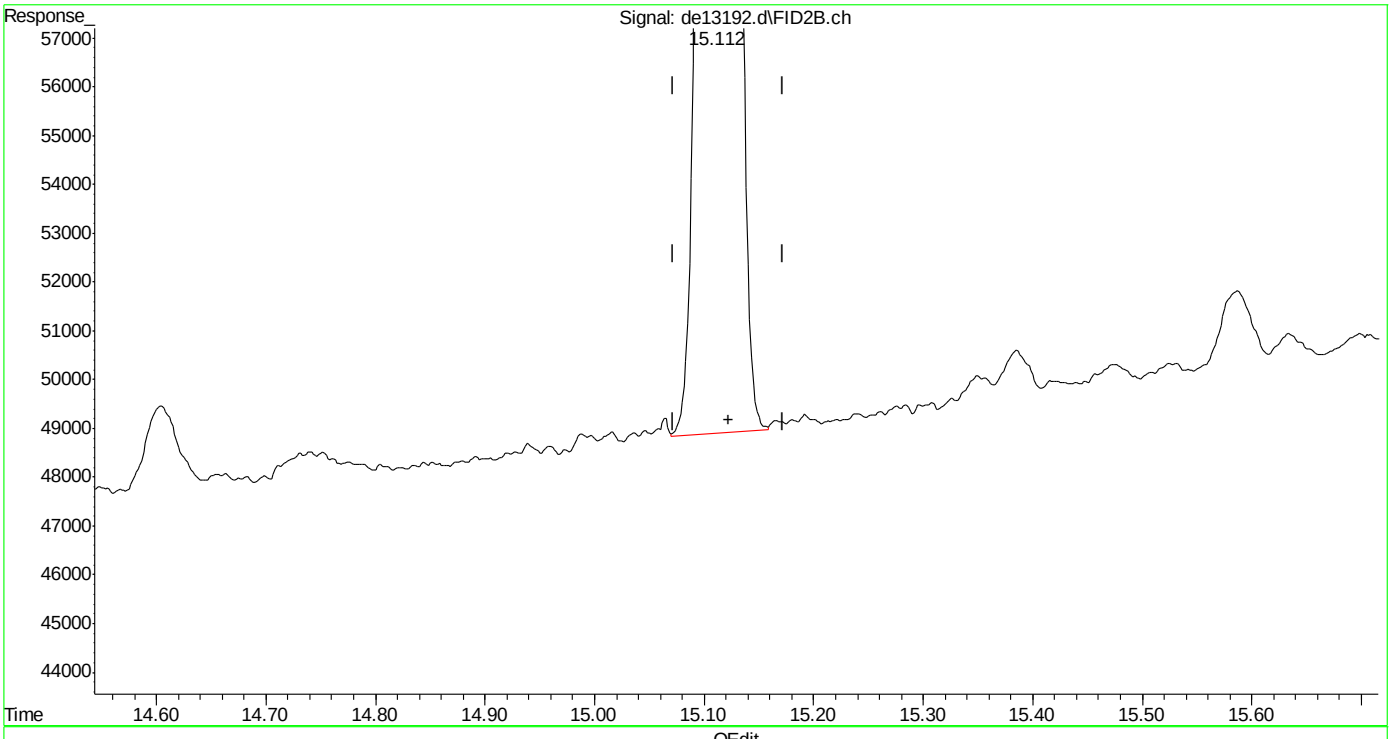
(+) = Expected Retention Time

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

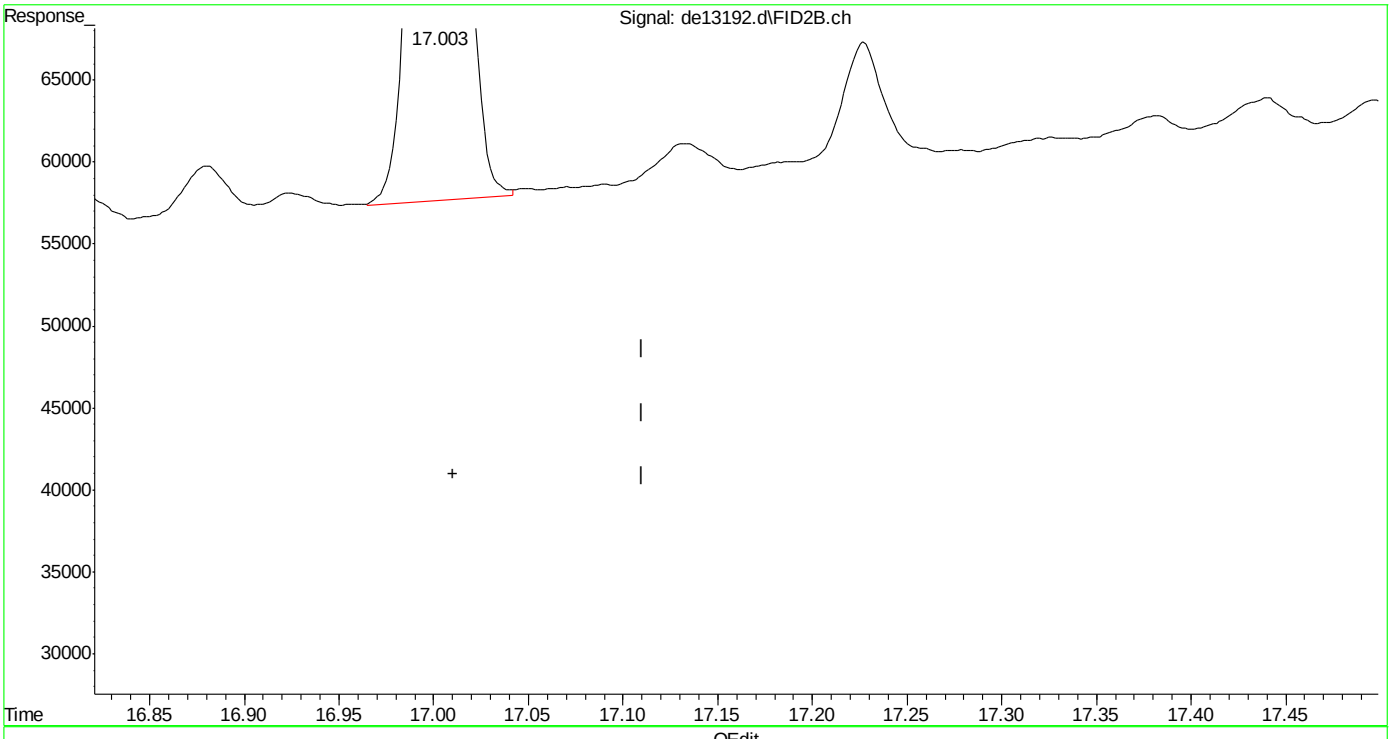
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:41:28 2016

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.

9.5.3

9

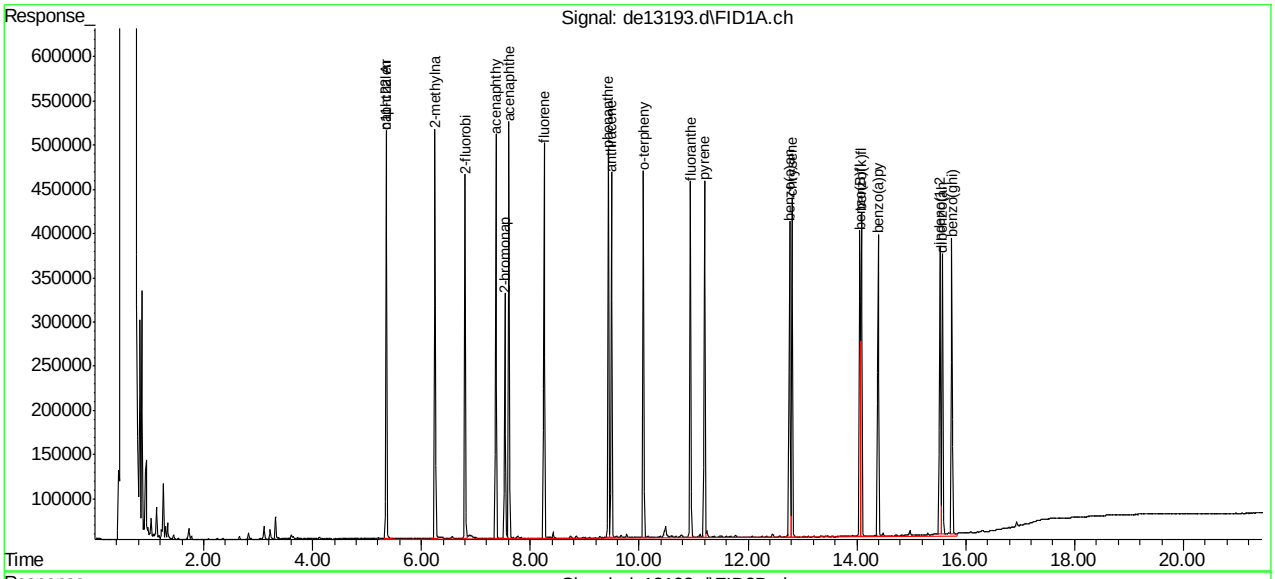
SGS ACCUTEST MC45538

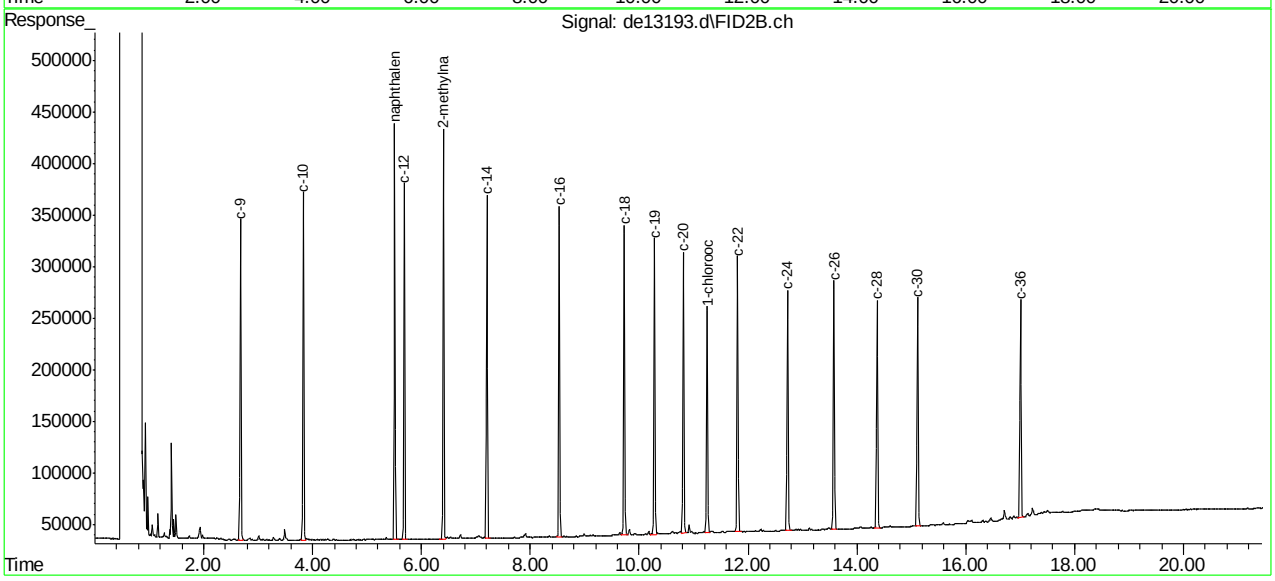
Quantitation Report (QT Reviewed)

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

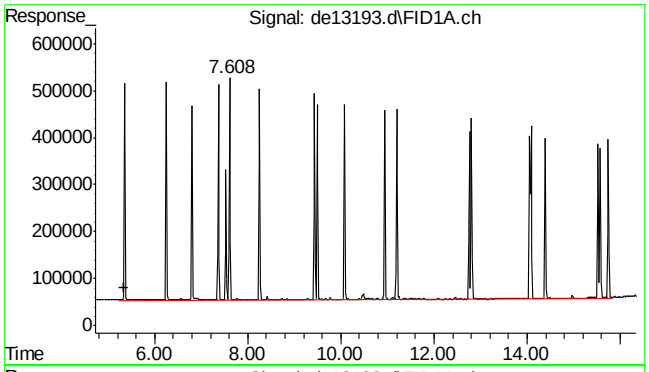
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



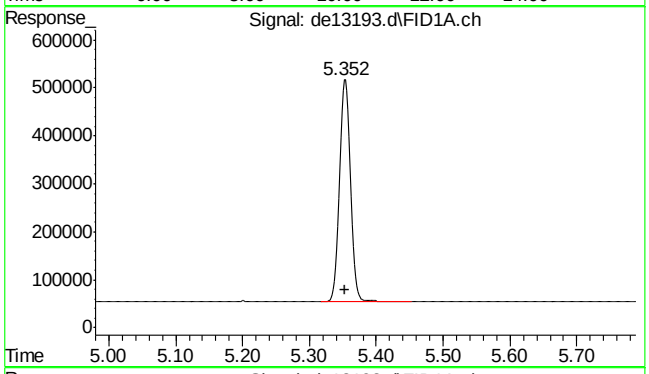


SGS ACCUTEST MC45538



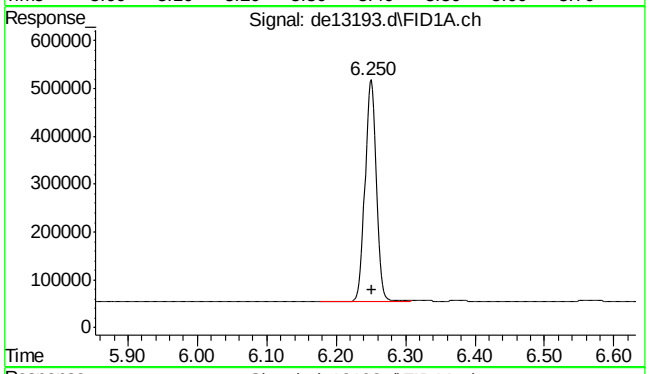
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 9069374
Conc: 5.75 µg/ml m



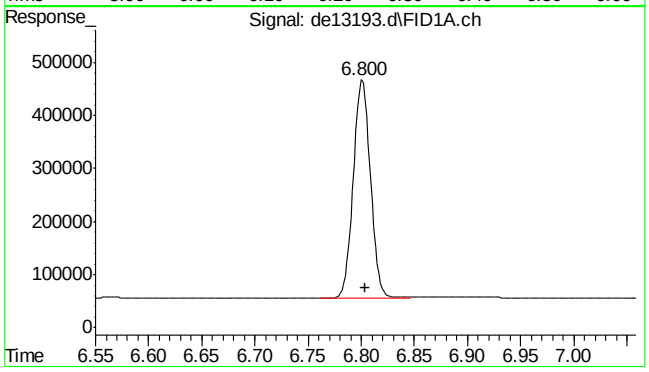
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 522941
Conc: 4.81 µg/ml



#3 2-methylnaphthalene

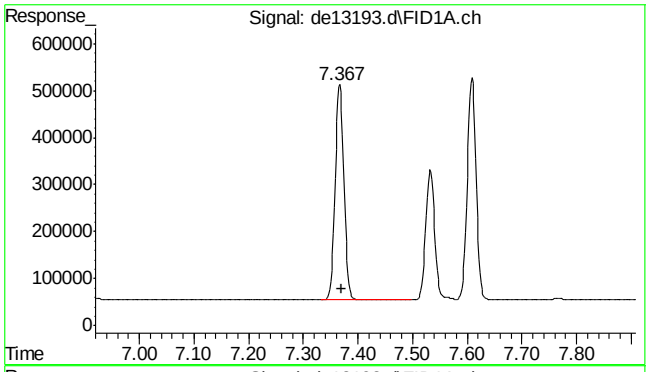
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 518620
Conc: 4.82 µg/ml



#4 2-fluorobiphenyl

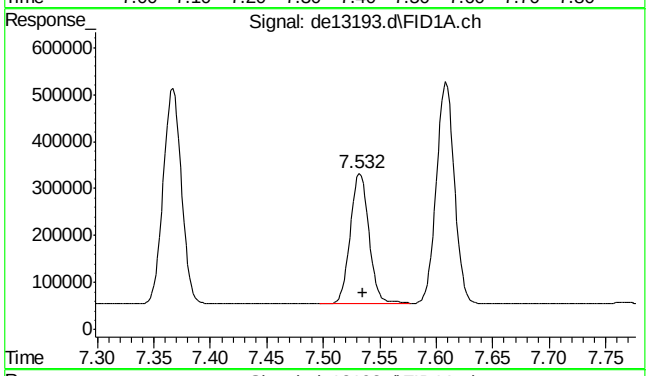
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 466222
Conc: 4.82 µg/ml

SGS ACCUTEST MC45538



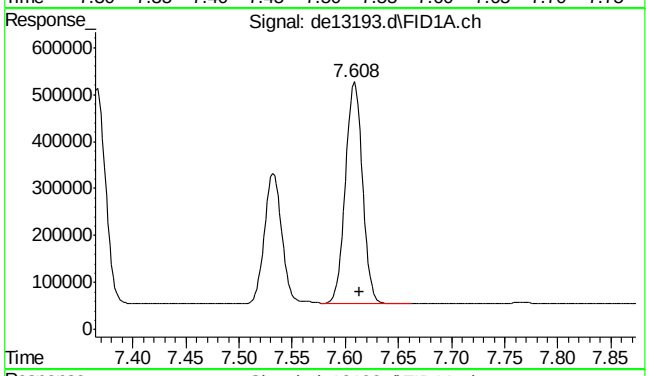
#5 acenaphthylene

R.T.: 7.367 min
Delta R.T.: -0.003 min
Response: 513706
Conc: 4.85 µg/ml



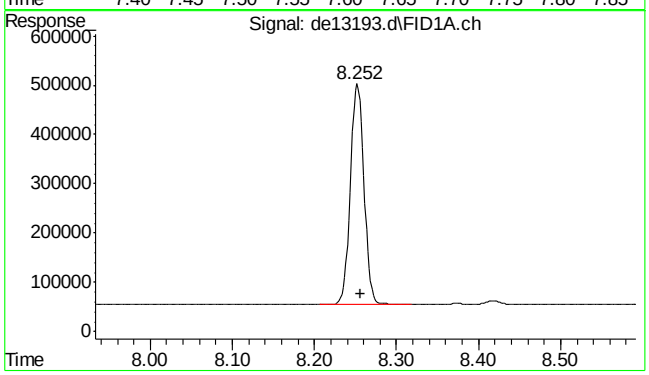
#6 2-bromonaphthalene

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



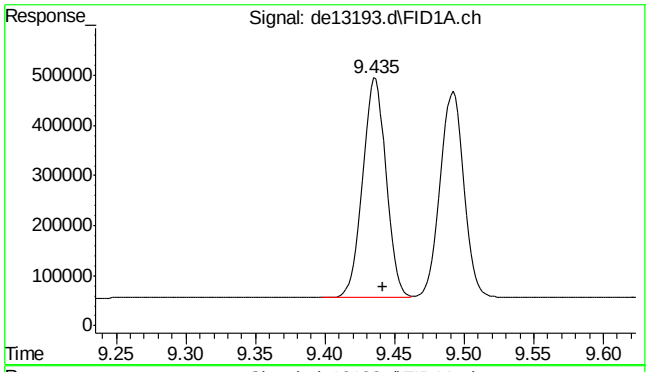
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 515691
Conc: 4.87 µg/ml

9.5.3

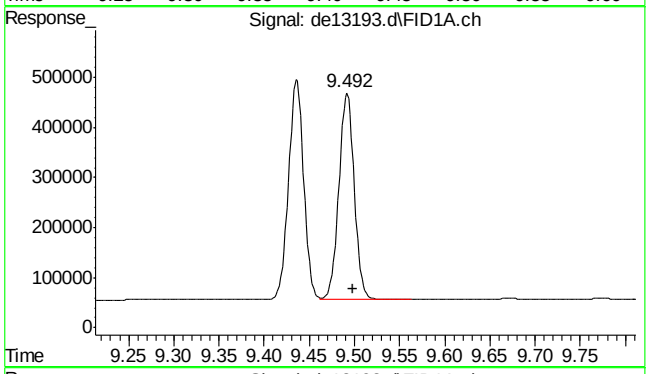
9

SGS ACCUTEST MC45538



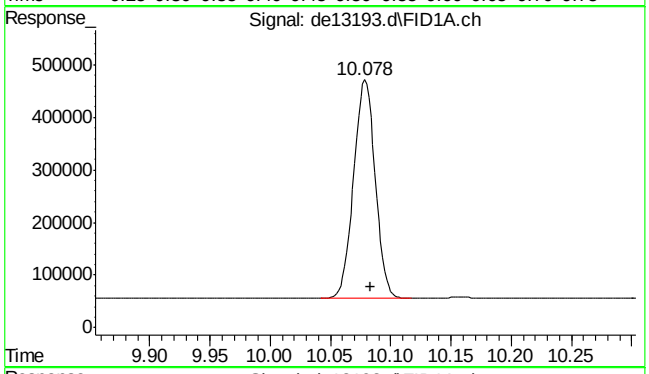
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 514273
Conc: 4.88 µg/ml



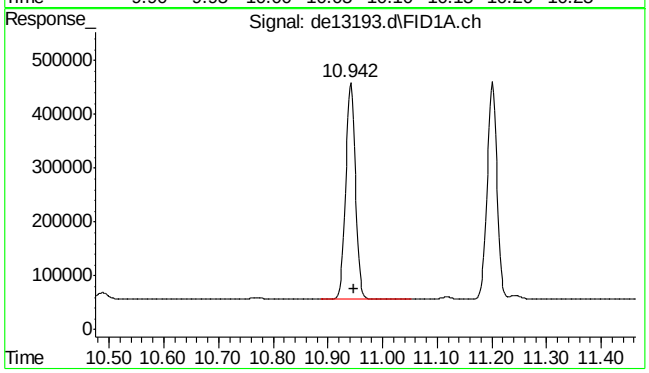
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 492058
Conc: 5.02 µg/ml



#11 o-terphenyl

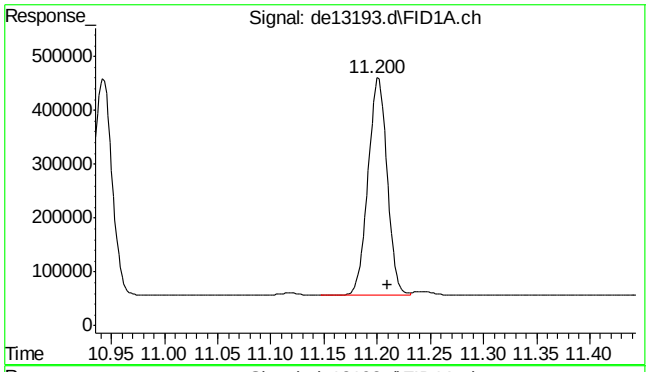
R.T.: 10.078 min
Delta R.T.: -0.005 min
Response: 516185
Conc: 4.89 µg/ml



#12 fluoranthene

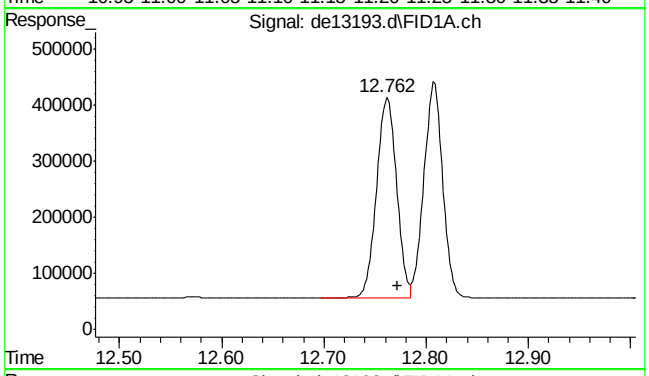
R.T.: 10.942 min
Delta R.T.: -0.007 min
Response: 501463
Conc: 4.87 µg/ml

SGS ACCUTEST MC45538



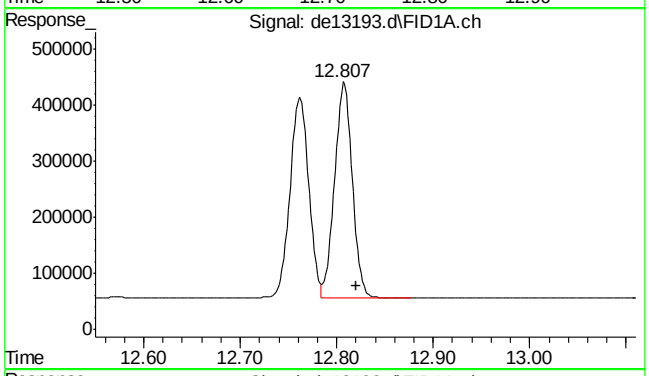
#13 pyrene

R.T.: 11.200 min
Delta R.T.: -0.010 min
Response: 505877
Conc: 4.85 µg/ml



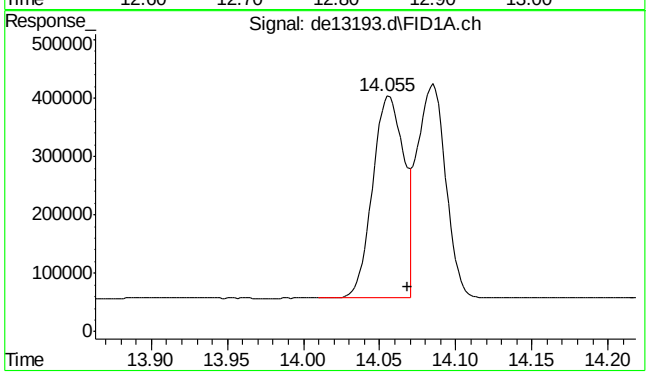
#14 benzo(a)anthracene

R.T.: 12.762 min
Delta R.T.: -0.010 min
Response: 484563
Conc: 4.92 µg/ml m



#15 chrysene

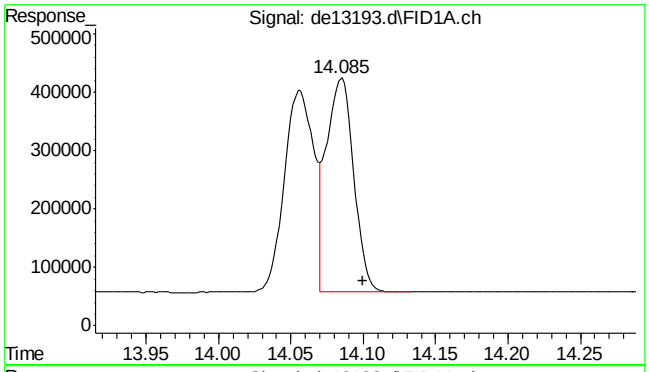
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 488834
Conc: 4.92 µg/ml m



#16 benzo(B)fluoranthene

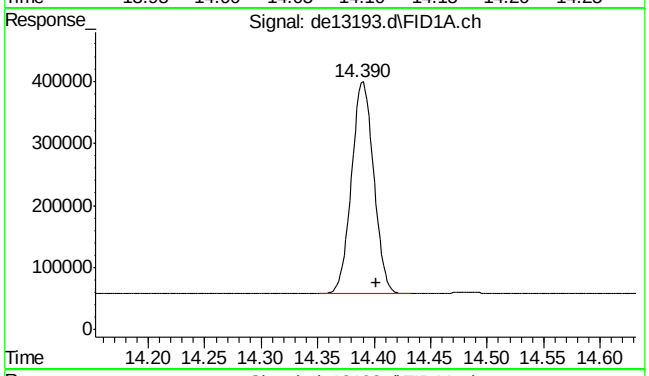
R.T.: 14.055 min
Delta R.T.: -0.013 min
Response: 499942
Conc: 4.93 µg/ml m

SGS ACCUTEST MC45538



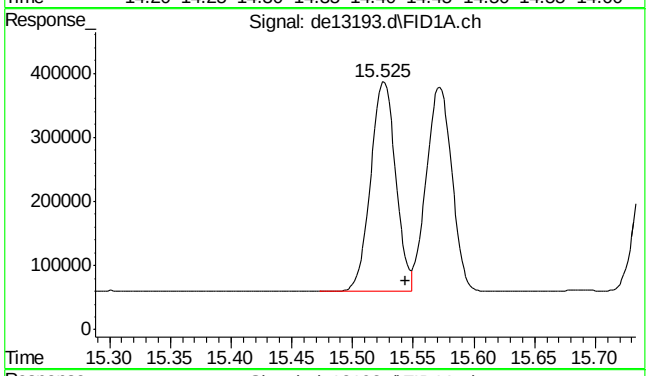
#17 benzo(k)fluoranthene

R.T.: 14.085 min
Delta R.T.: -0.015 min
Response: 474469
Conc: 4.88 µg/ml m



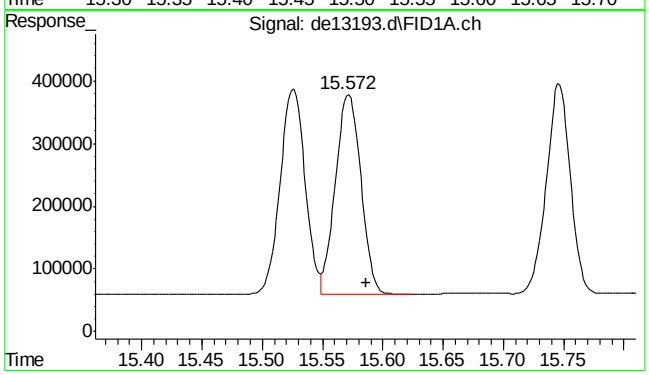
#18 benzo(a)pyrene

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



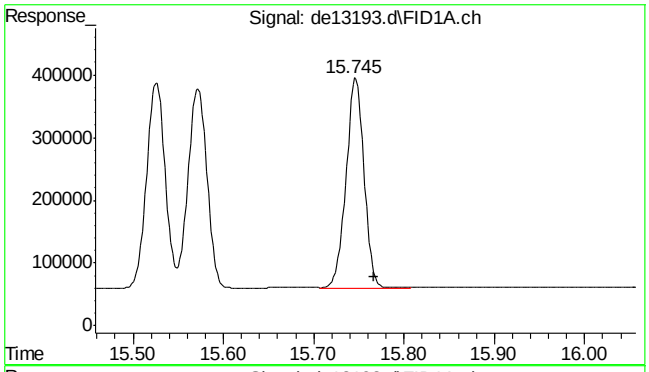
#20 dibenzo(ah)anthracene

R.T.: 15.572 min
Delta R.T.: -0.015 min
Response: 466623
Conc: 4.97 µg/ml m

9.5.3

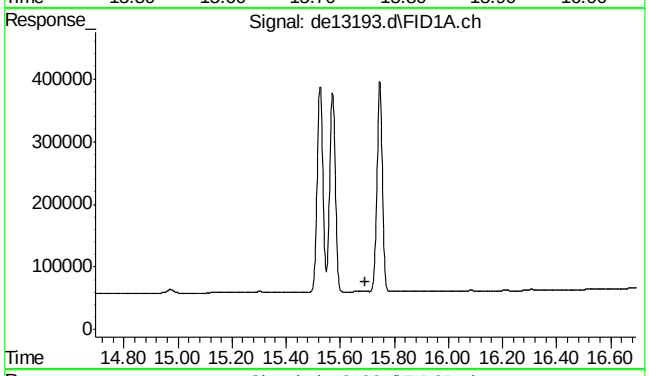
9

SGS ACCUTEST MC45538



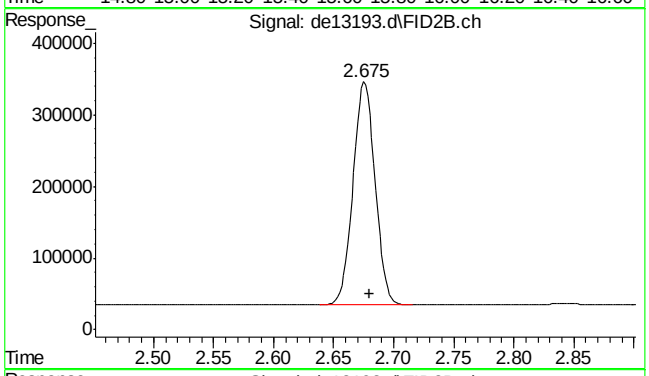
#21 benzo(ghi)perylene

R.T.: 15.745 min
Delta R.T.: -0.022 min
Response: 463653
Conc: 4.91 µg/ml



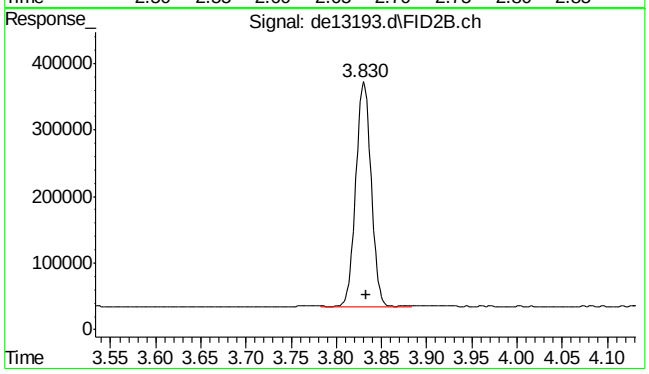
#22 bht

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



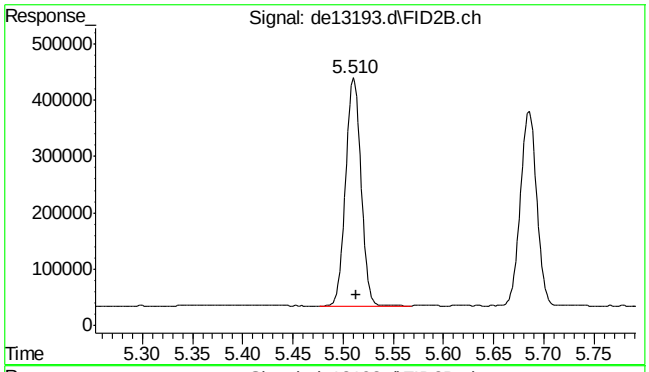
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 401630
Conc: 5.32 µg/ml

9.5.3

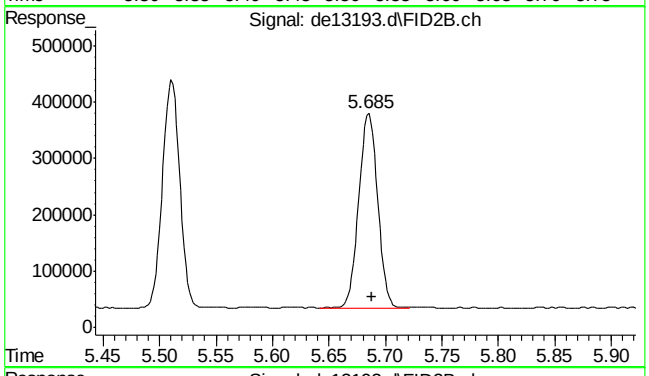
9

SGS ACCUTEST MC45538



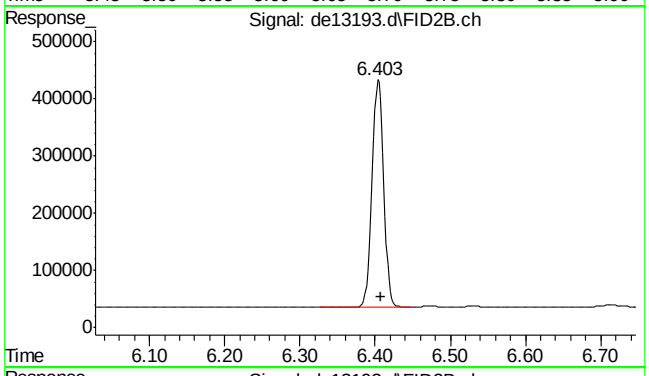
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 427200
Conc: 5.41 µg/ml



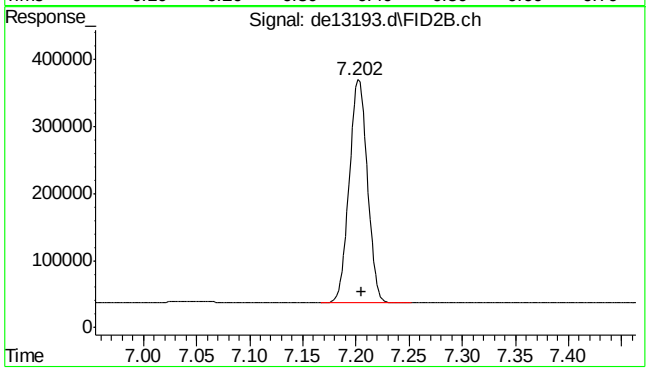
#28 c-12

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



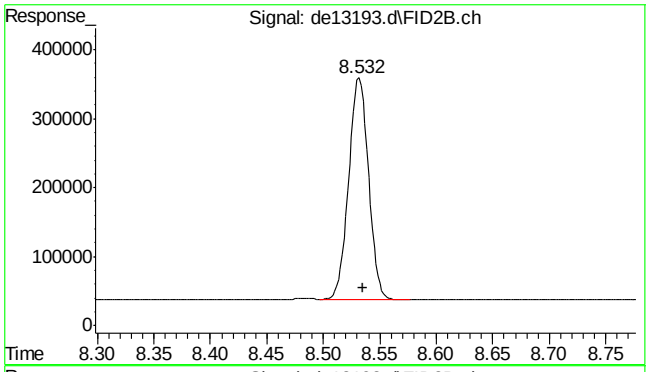
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 396429
Conc: 5.27 µg/ml

9.5.3

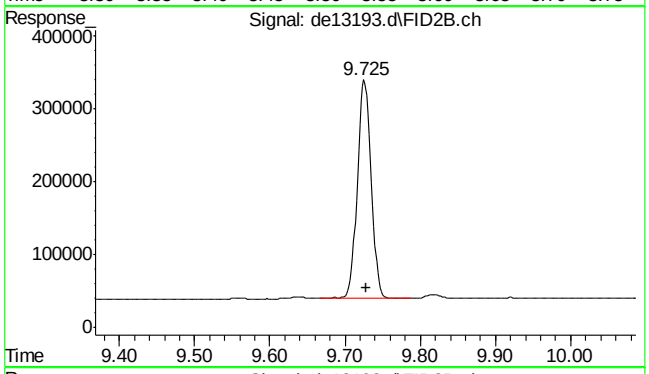
9

SGS ACCUTEST MC45538



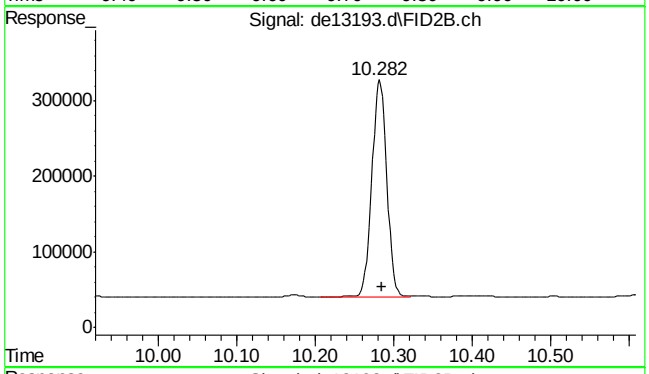
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 389860
Conc: 5.20 µg/ml



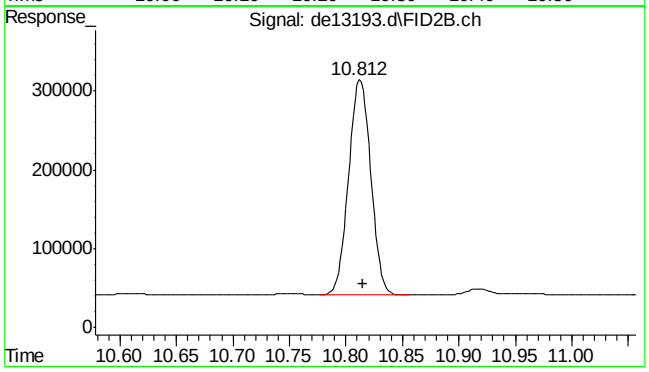
#32 c-18

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



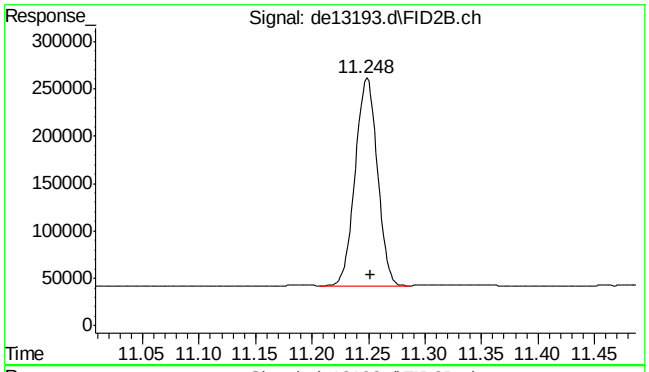
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 369620
Conc: 5.21 µg/ml

9.5.3

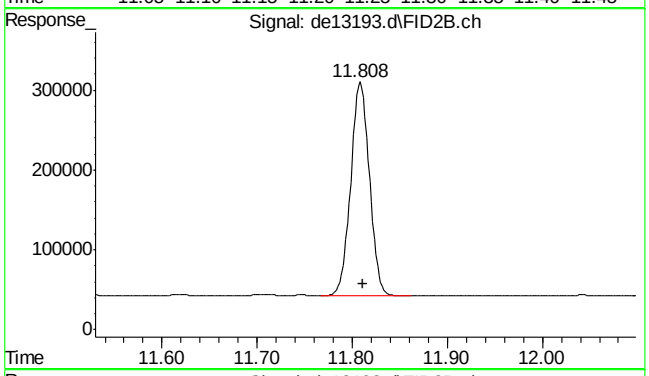
9

SGS ACCUTEST MC45538



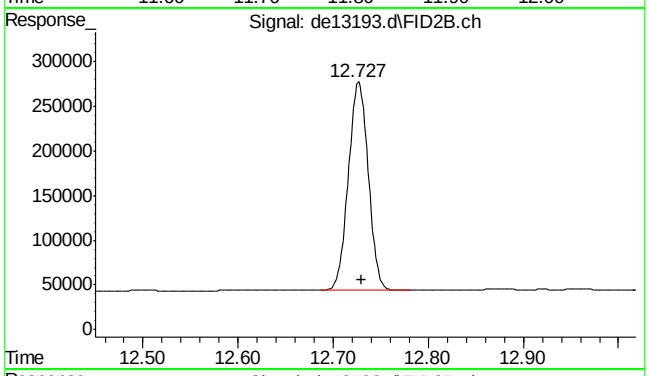
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 298238
Conc: 5.34 µg/ml



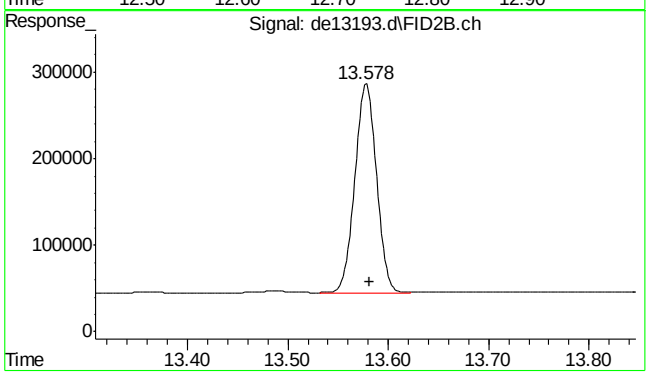
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 364434
Conc: 5.22 µg/ml



#37 c-24

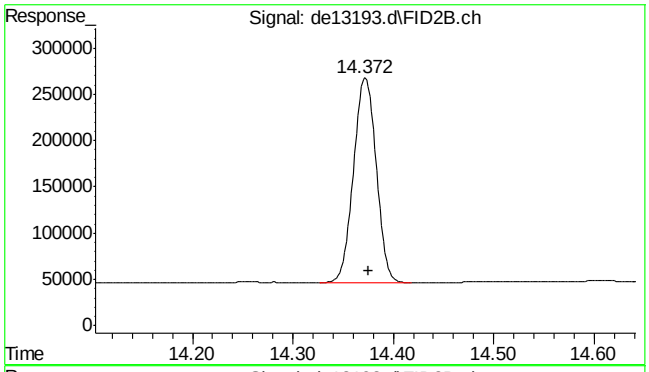
R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 339349
Conc: 5.10 µg/ml



#38 c-26

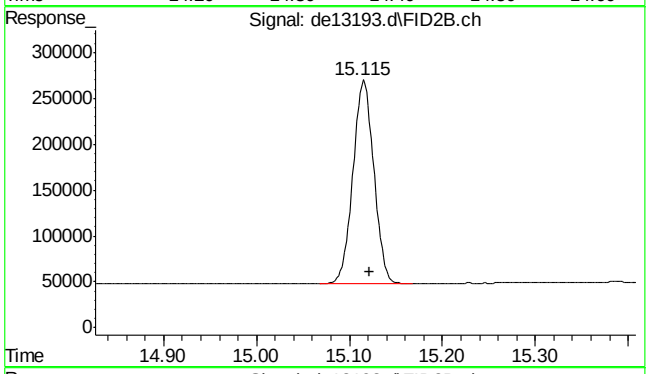
R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 359561
Conc: 5.19 µg/ml

SGS ACCUTEST MC45538



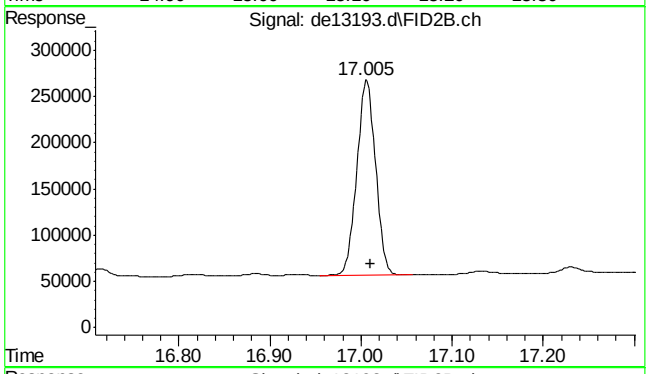
#39 c-28

R.T.: 14.372 min
Delta R.T.: -0.003 min
Response: 345810
Conc: 5.15 µg/ml



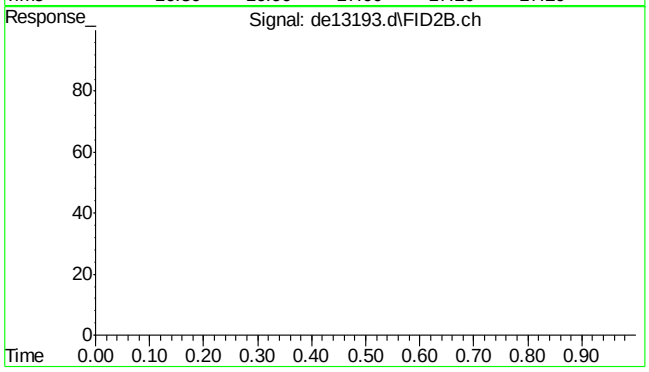
#40 c-30

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



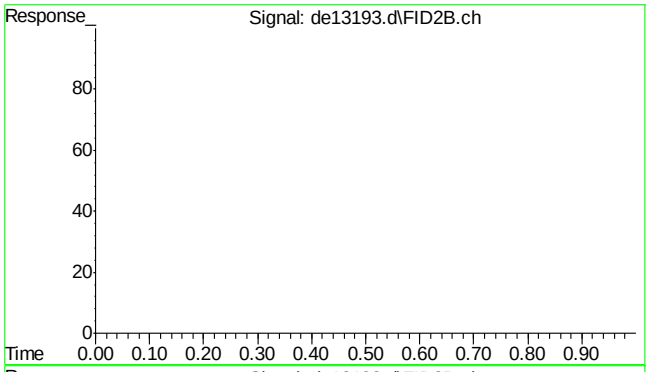
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.3

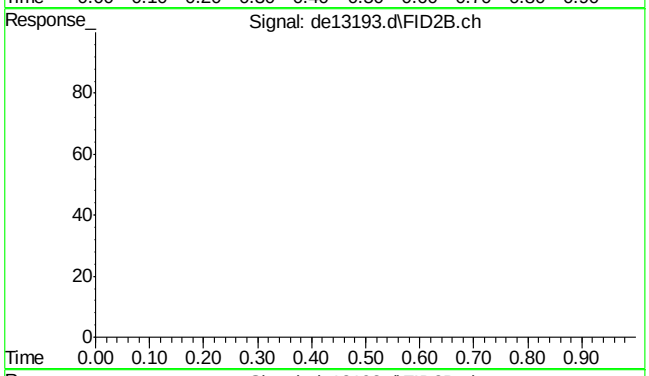
9

SGS ACCUTEST MC45538



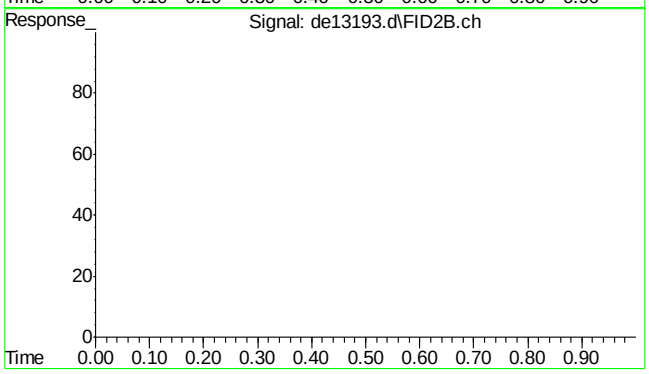
#43 bht

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.

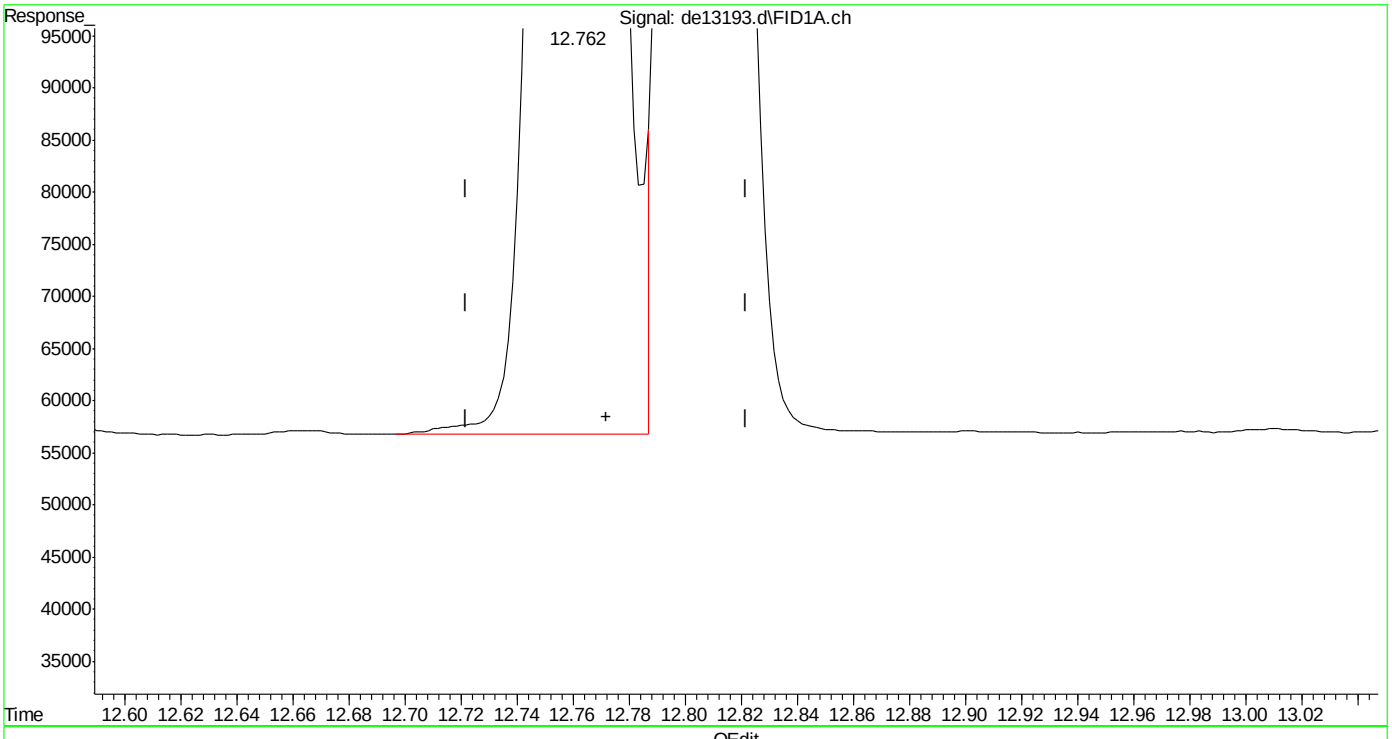
SGS ACCUTEST MC45538

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

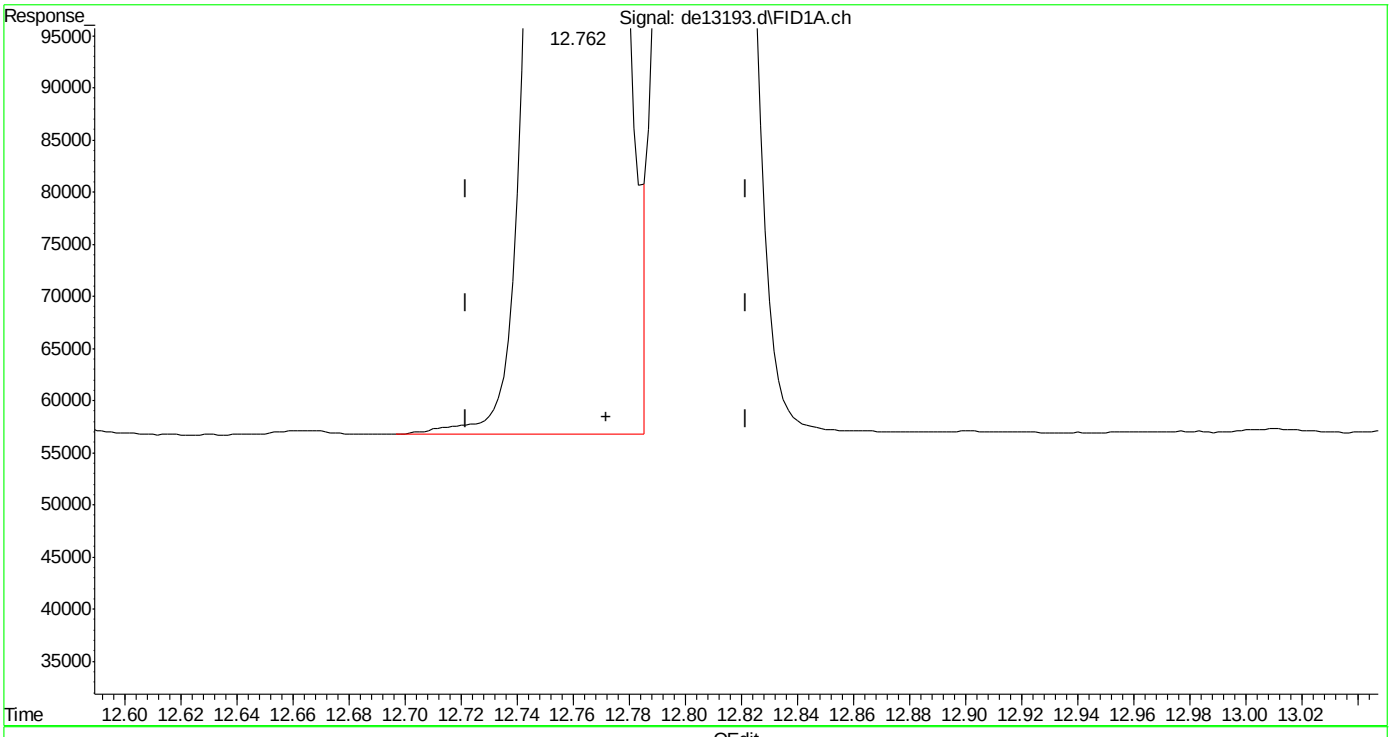
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:12 2016

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

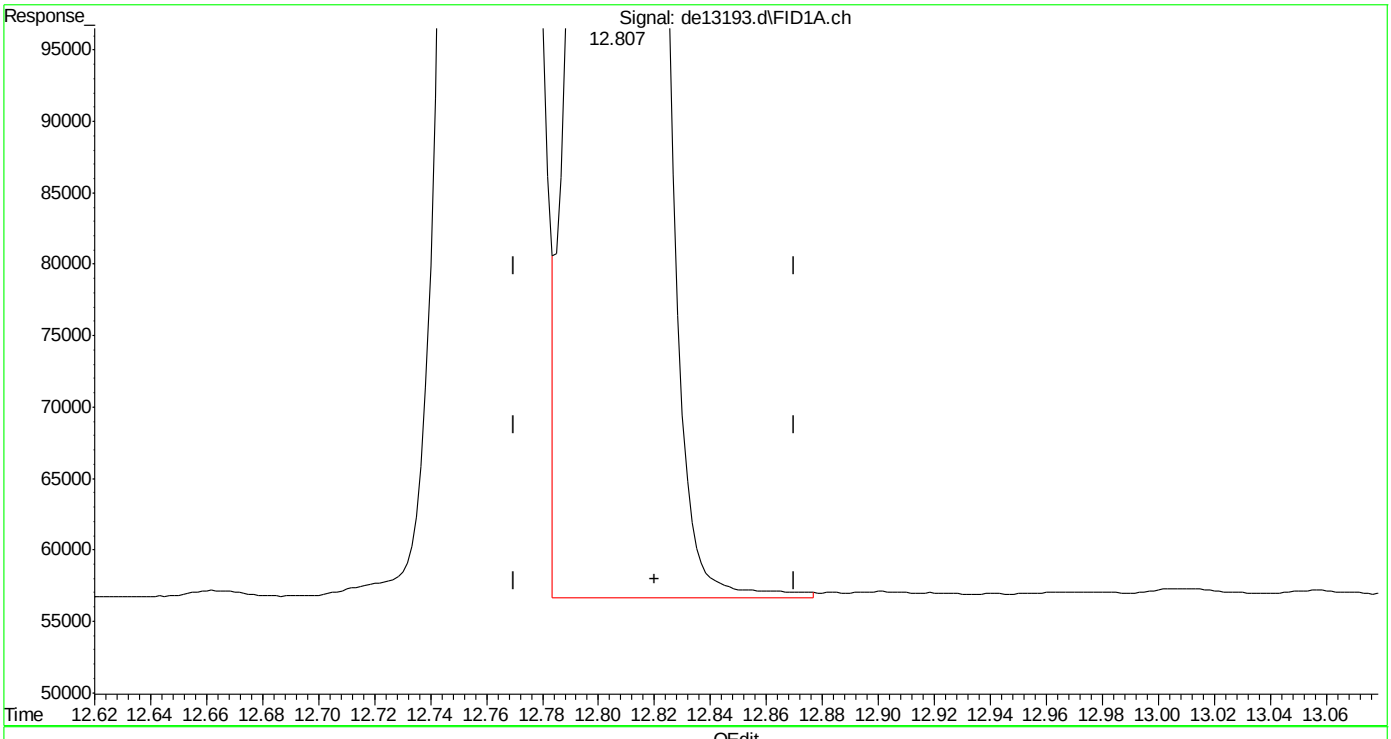
SGS ACCUTEST MC45538

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 Page: 1

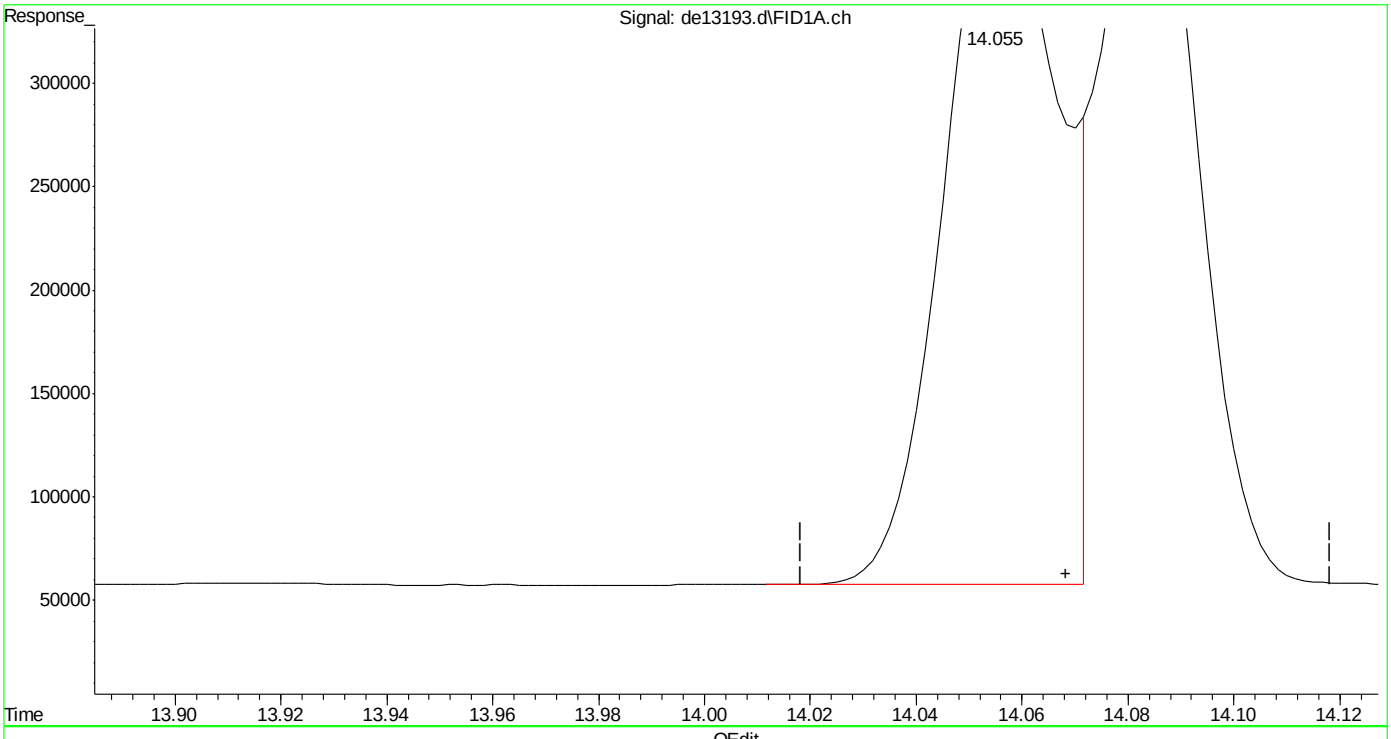
SGS ACCUTEST MC45538

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

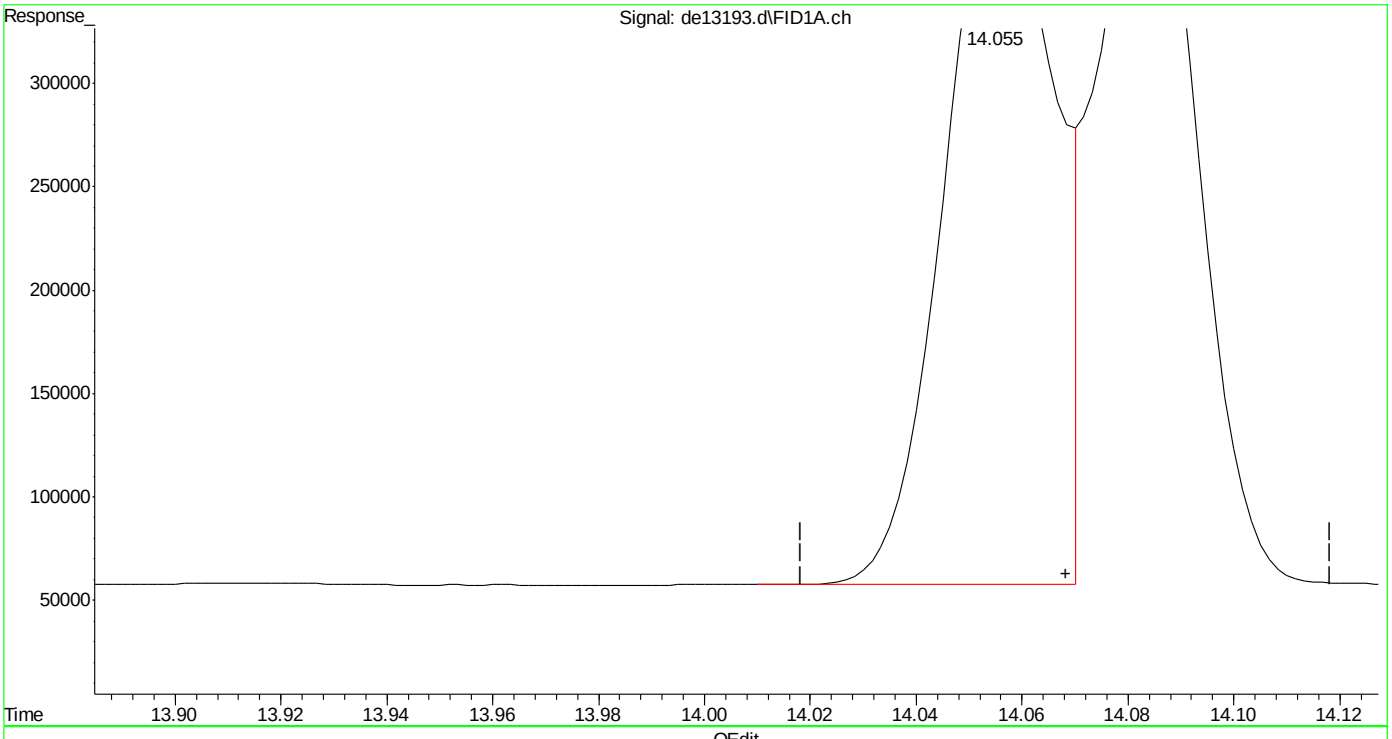
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:50 2016

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

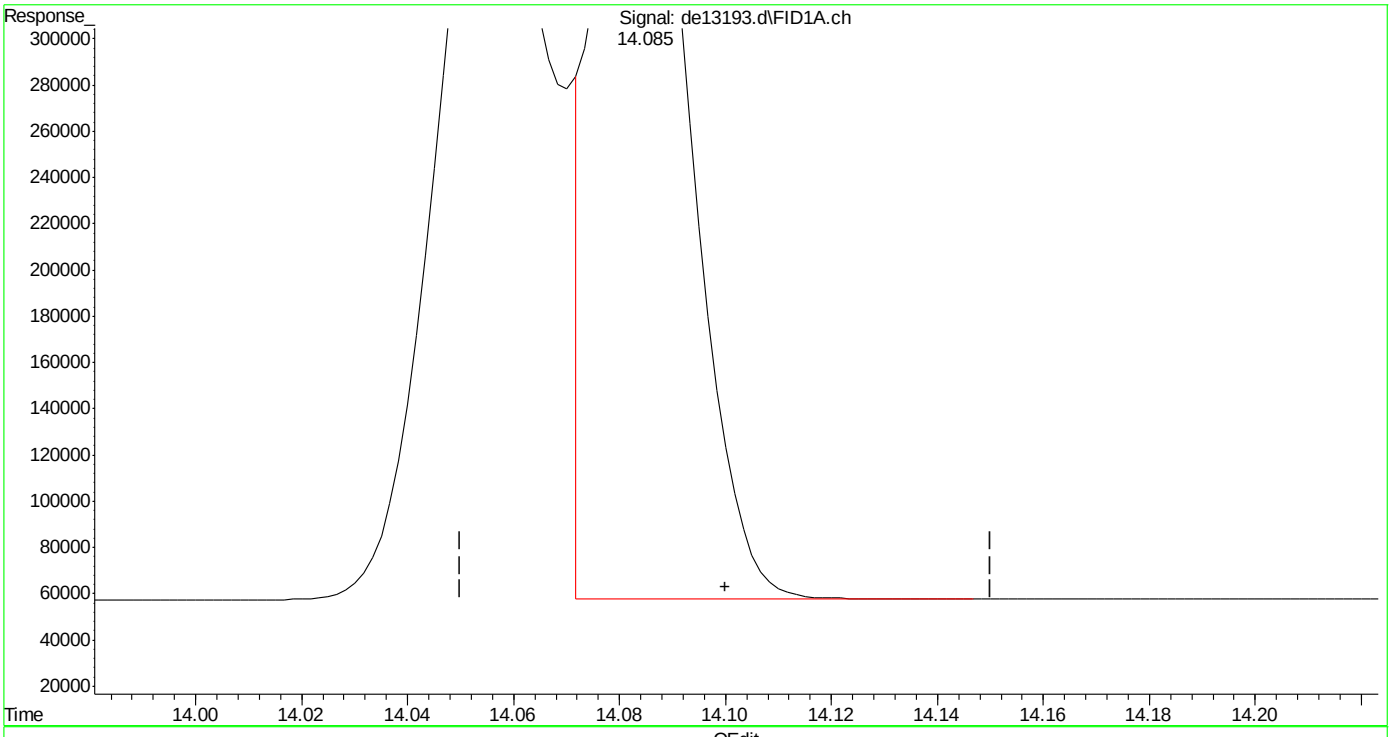
SGS ACCUTEST MC45538

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
EPH160204M.M Fri Feb 05 10:44:00 2016

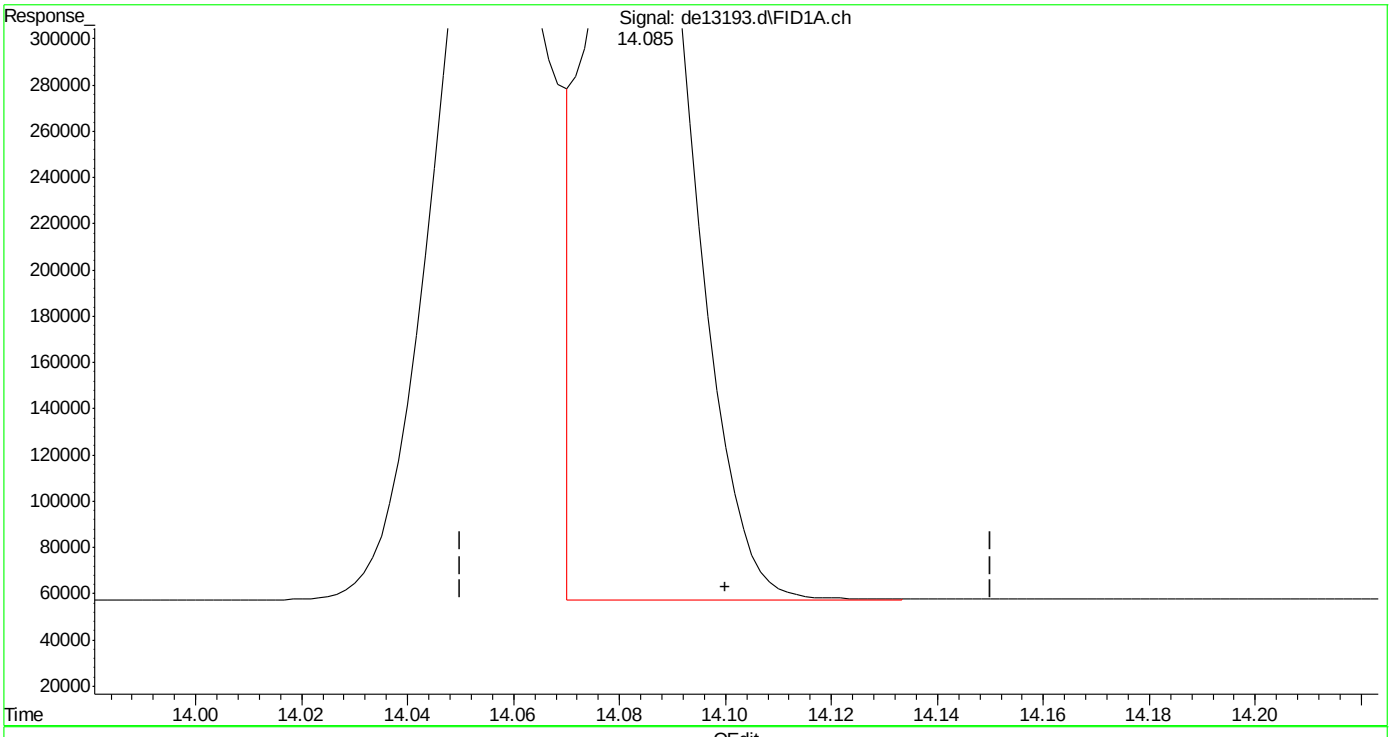
SGS ACCUTEST MC45538

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

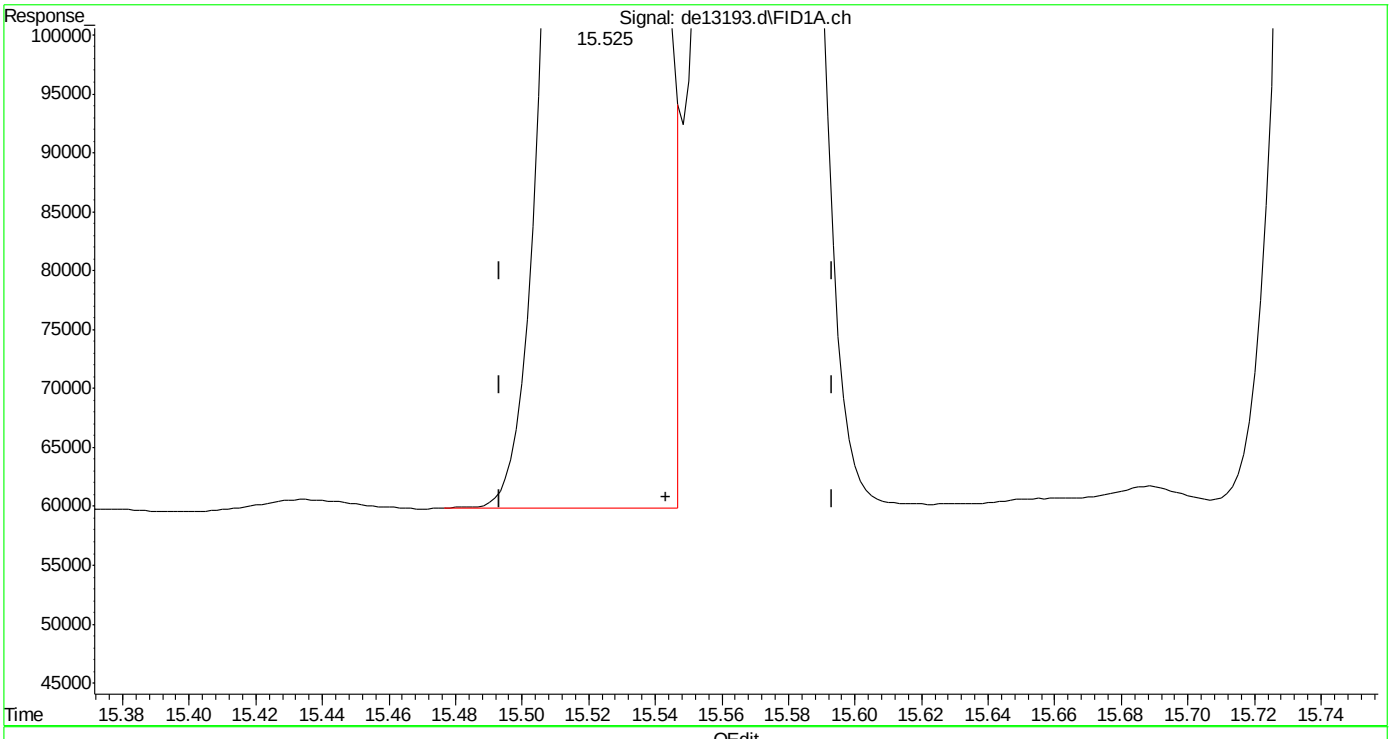
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:13 2016

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 :



(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

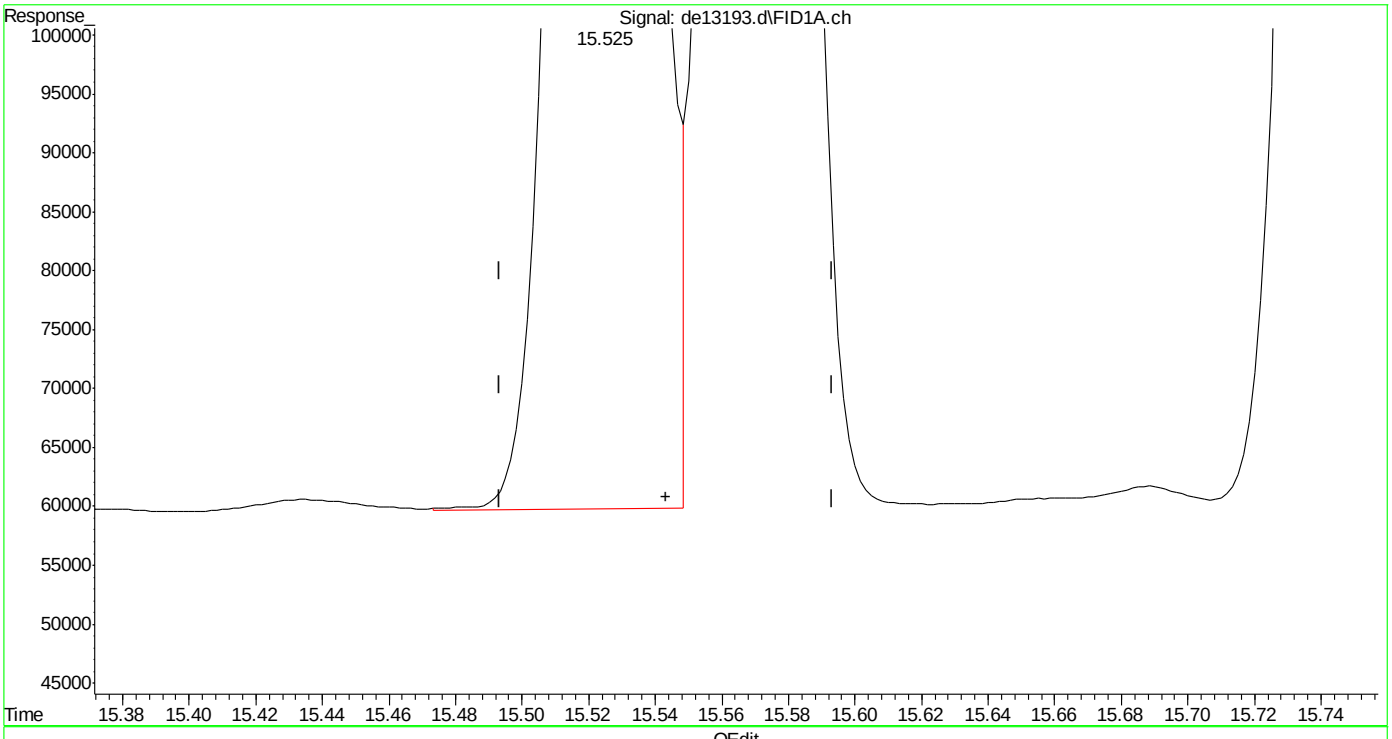
SGS ACCUTEST MC45538

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

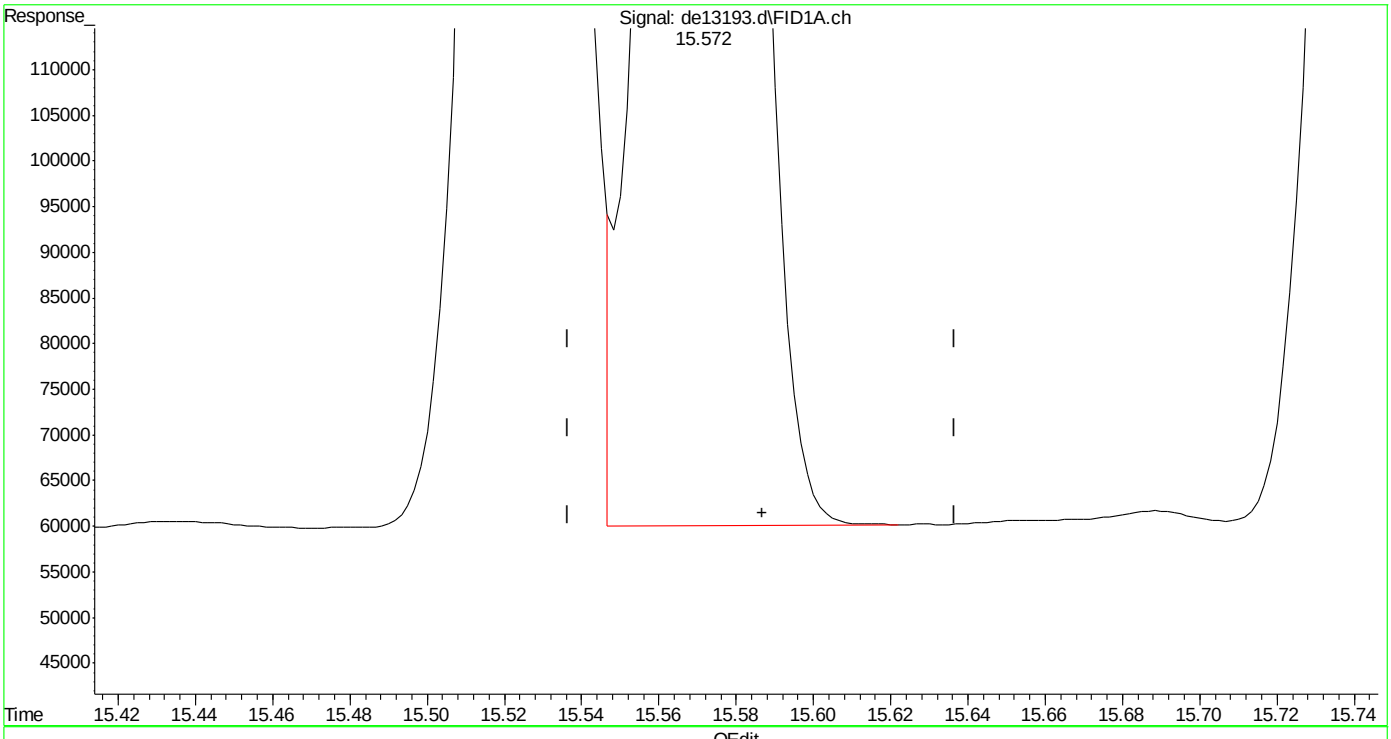
SGS ACCUTEST MC45538

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

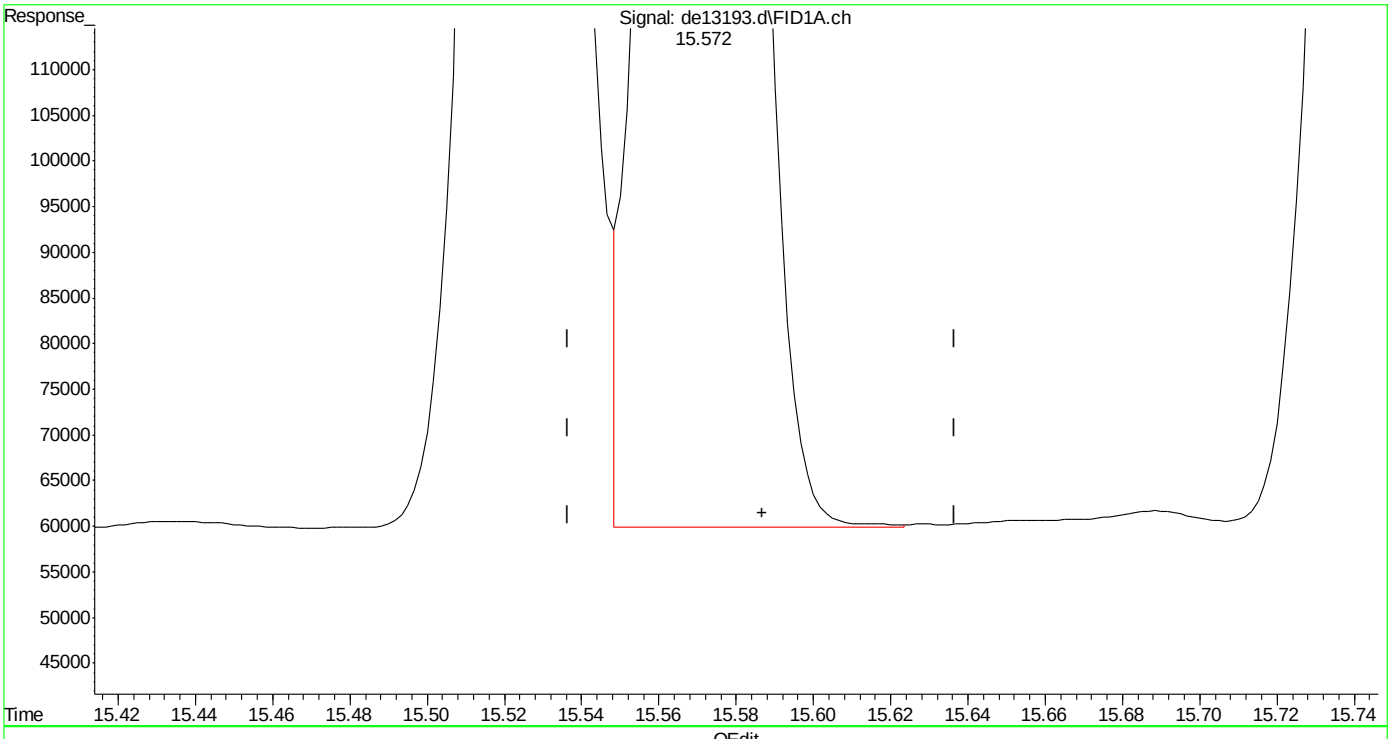
SGS ACCUTEST MC45538

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

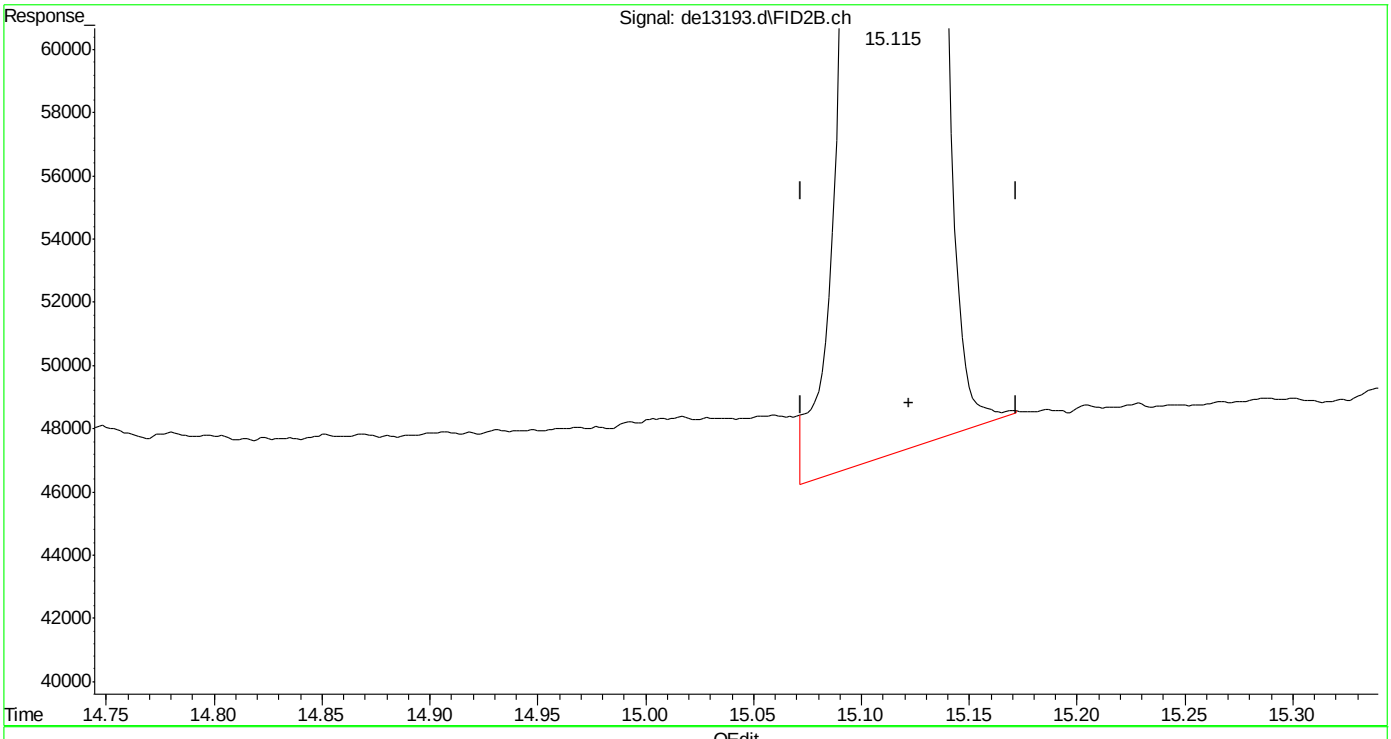
(+) = Expected Retention Time

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

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

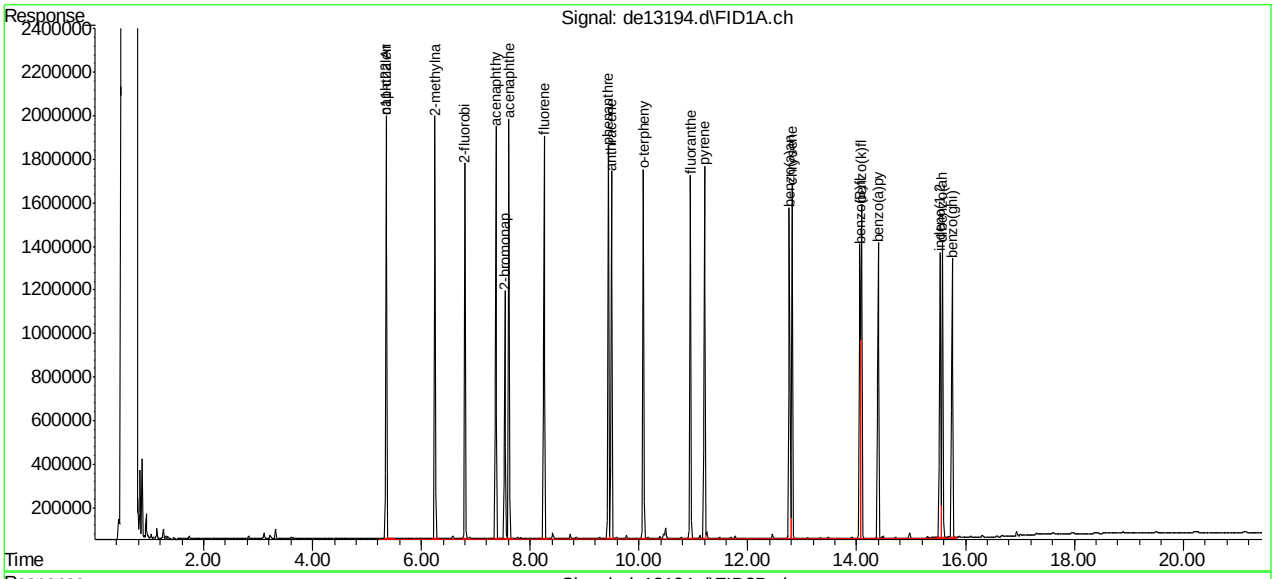
(f)=RT Delta > 1/2 Window (m)=manual int.

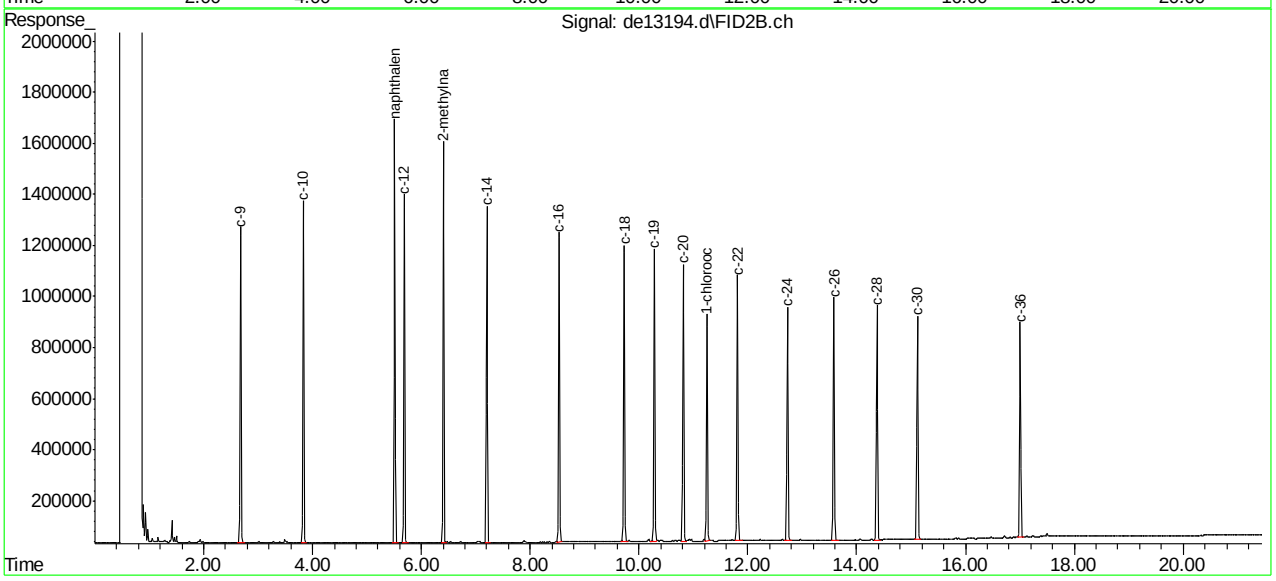
Quantitation Report (QT Reviewed)

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

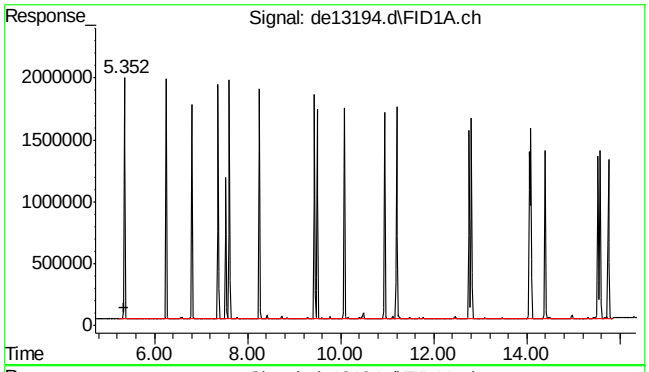
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



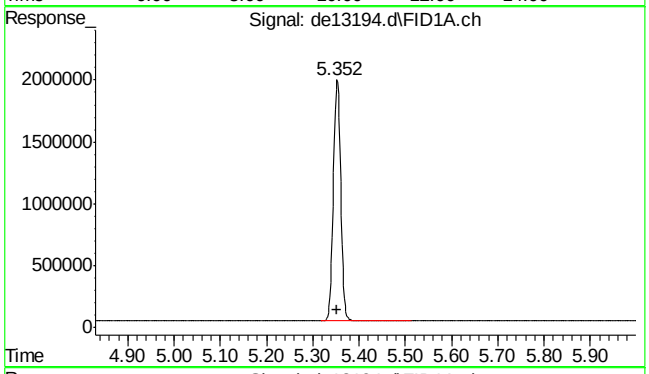


SGS ACCUTEST MC45538



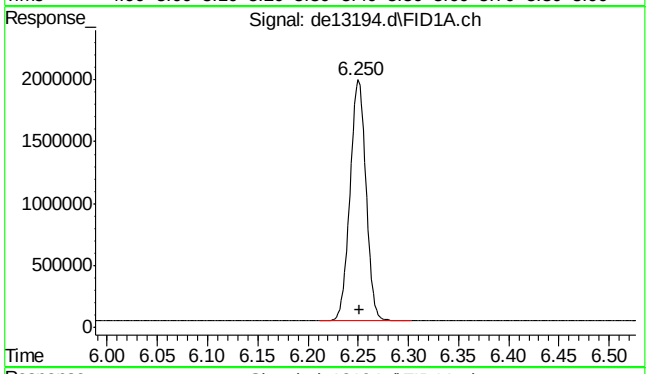
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36131366
Conc: 22.24 µg/ml m



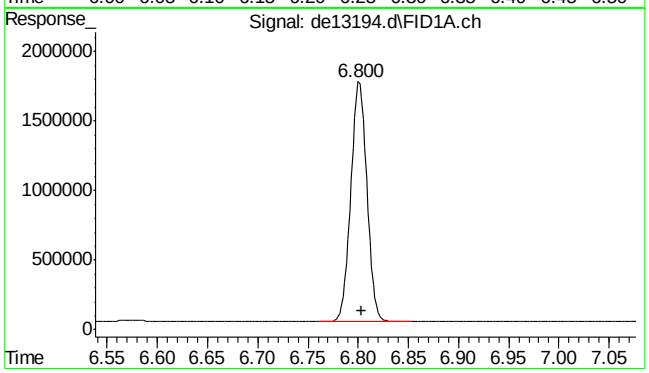
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 2162719
Conc: 20.28 µg/ml



#3 2-methylnaphthalene

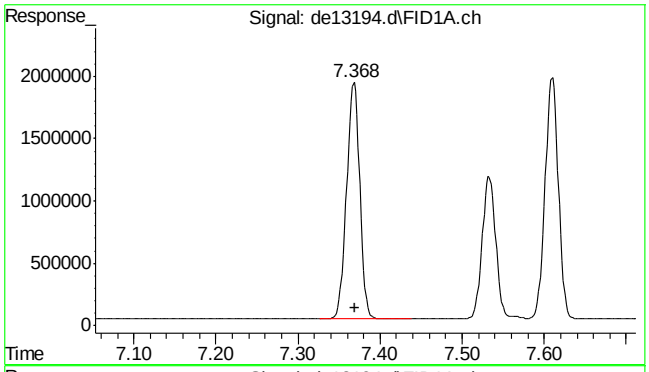
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 2136209
Conc: 20.22 µg/ml



#4 2-fluorobiphenyl

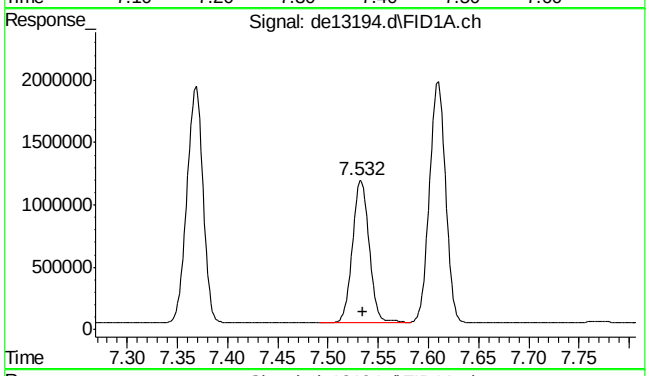
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 1923499
Conc: 20.26 µg/ml

SGS ACCUTEST MC45538



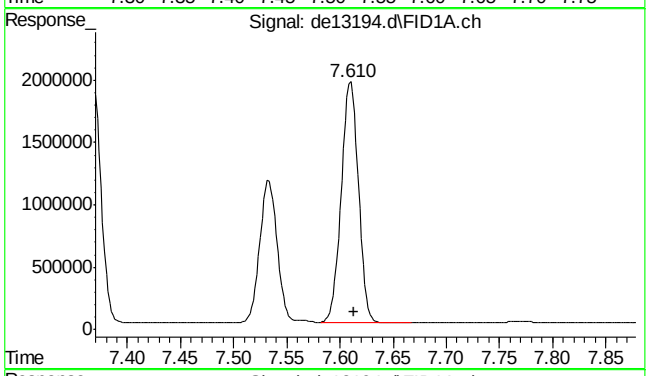
#5 acenaphthylene

R.T.: 7.368 min
Delta R.T.: -0.002 min
Response: 2106441
Conc: 20.28 µg/ml



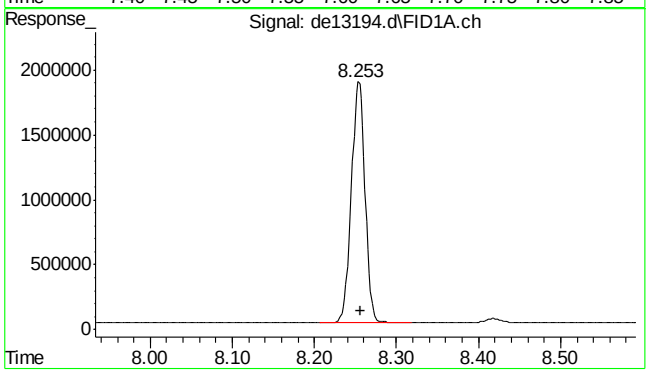
#6 2-bromonaphthalene

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



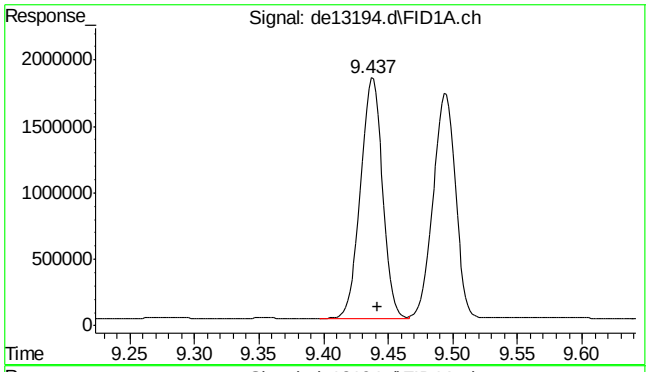
#8 fluorene

R.T.: 8.253 min
Delta R.T.: -0.003 min
Response: 2130652
Conc: 20.46 µg/ml

9.5.4

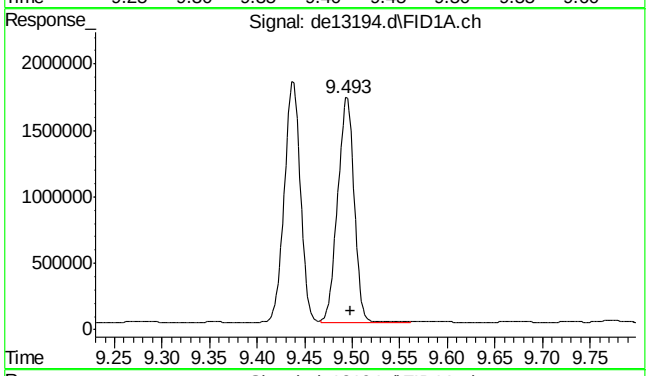
9

SGS ACCUTEST MC45538



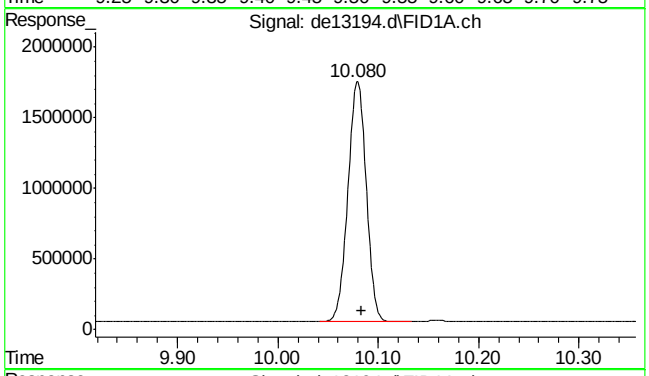
#9 phenanthrene

R.T.: 9.437 min
Delta R.T.: -0.005 min
Response: 2129143
Conc: 20.50 µg/ml



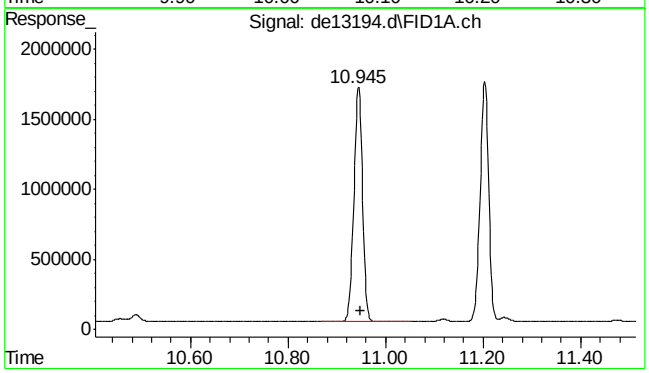
#10 anthracene

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 2038508
Conc: 20.98 µg/ml



#11 o-terphenyl

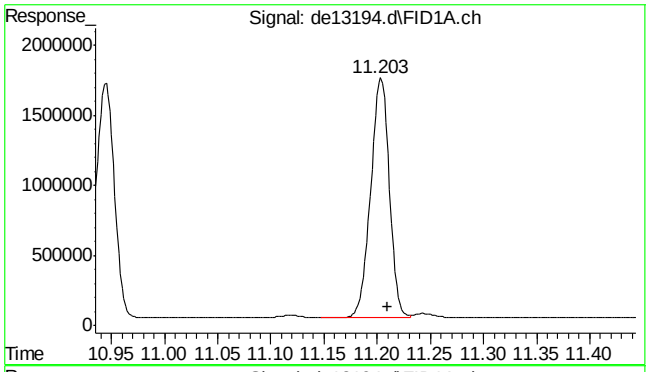
R.T.: 10.080 min
Delta R.T.: -0.003 min
Response: 2144067
Conc: 20.57 µg/ml



#12 fluoranthene

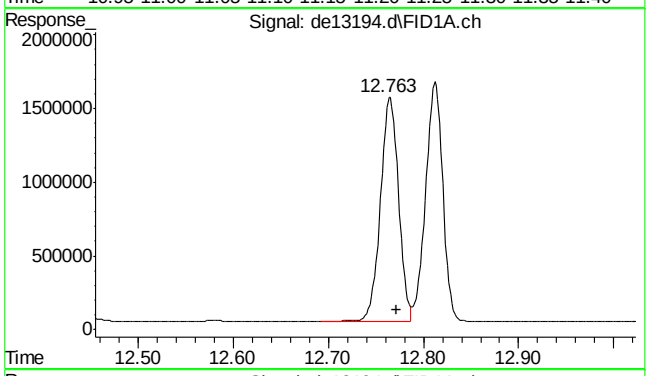
R.T.: 10.945 min
Delta R.T.: -0.003 min
Response: 2077039
Conc: 20.39 µg/ml

SGS ACCUTEST MC45538



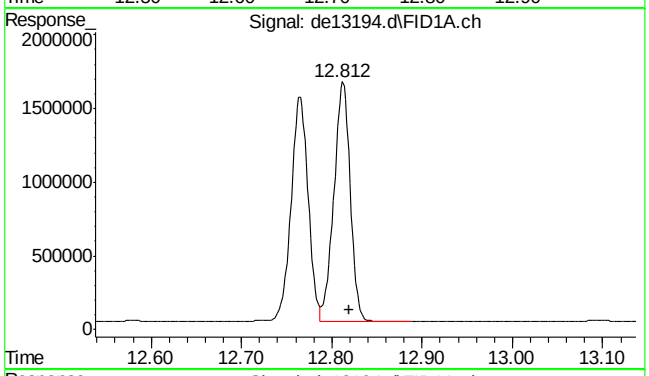
#13 pyrene

R.T.: 11.203 min
Delta R.T.: -0.007 min
Response: 2089957
Conc: 20.24 µg/ml



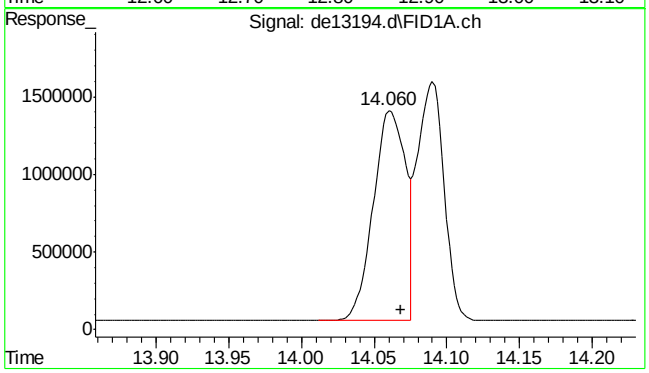
#14 benzo(a)anthracene

R.T.: 12.763 min
Delta R.T.: -0.008 min
Response: 2002764
Conc: 20.46 µg/ml



#15 chrysene

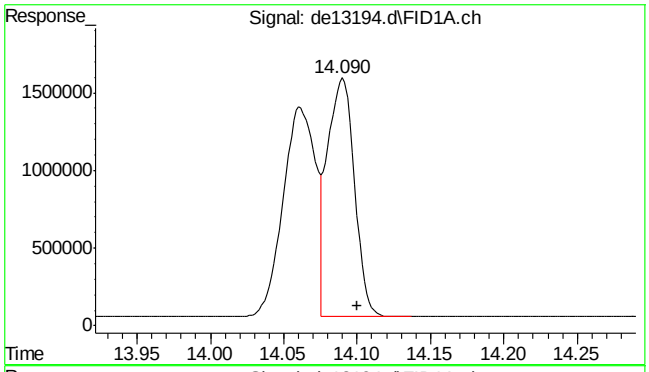
R.T.: 12.812 min
Delta R.T.: -0.008 min
Response: 2022589
Conc: 20.50 µg/ml



#16 benzo(B)fluoranthene

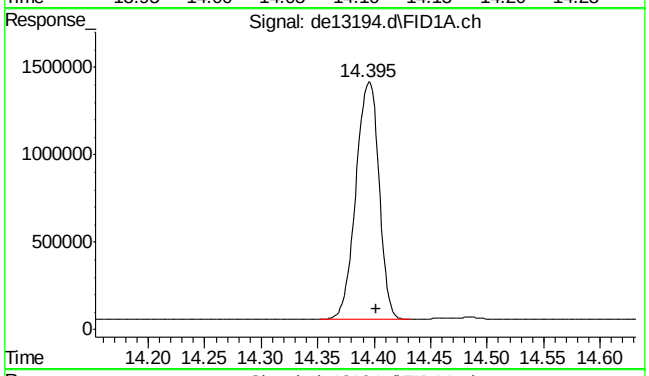
R.T.: 14.060 min
Delta R.T.: -0.008 min
Response: 2094779
Conc: 20.86 µg/ml m

SGS ACCUTEST MC45538



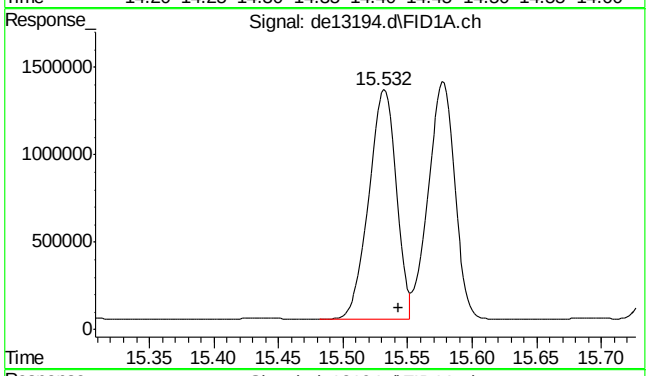
#17 benzo(k)fluoranthene

R.T.: 14.090 min
Delta R.T.: -0.010 min
Response: 1953249
Conc: 20.19 µg/ml m



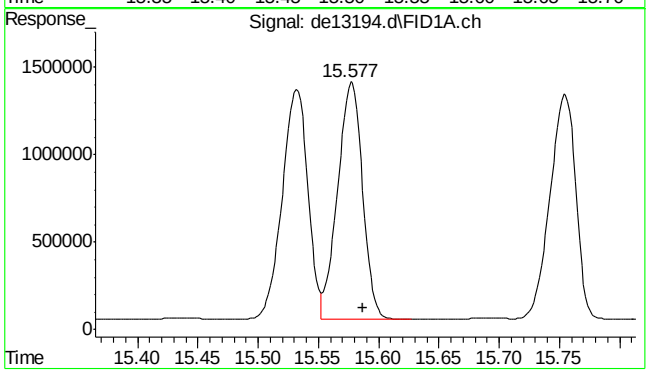
#18 benzo(a)pyrene

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

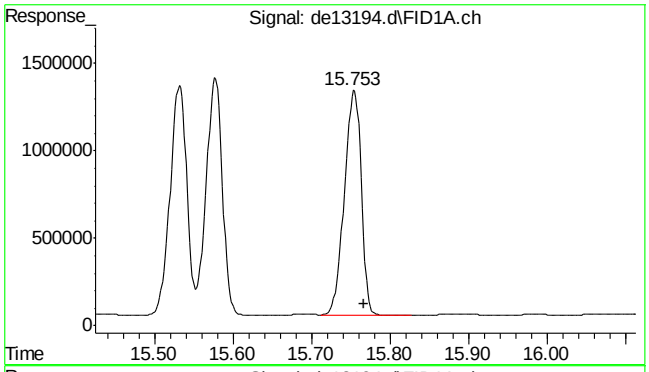
R.T.: 15.532 min
Delta R.T.: -0.012 min
Response: 1948257
Conc: 19.99 µg/ml



#20 dibenzo(ah)anthracene

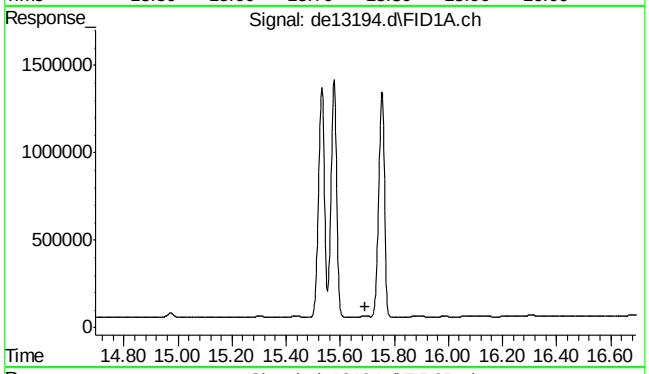
R.T.: 15.577 min
Delta R.T.: -0.010 min
Response: 1933263
Conc: 20.73 µg/ml

SGS ACCUTEST MC45538



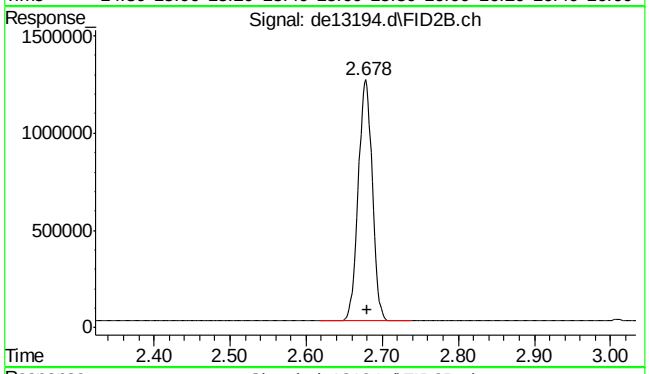
#21 benzo(ghi)perylene

R.T.: 15.753 min
Delta R.T.: -0.013 min
Response: 1916075
Conc: 20.36 µg/ml



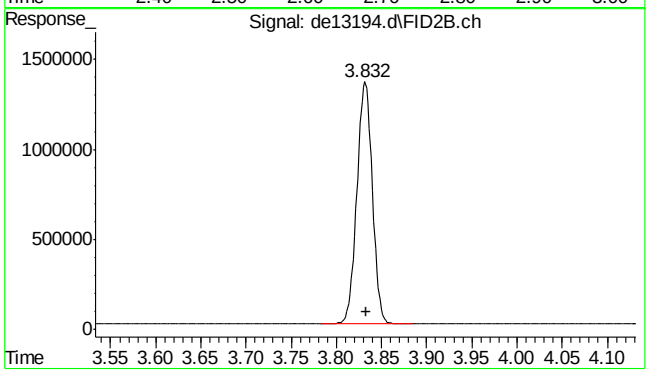
#22 bht

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



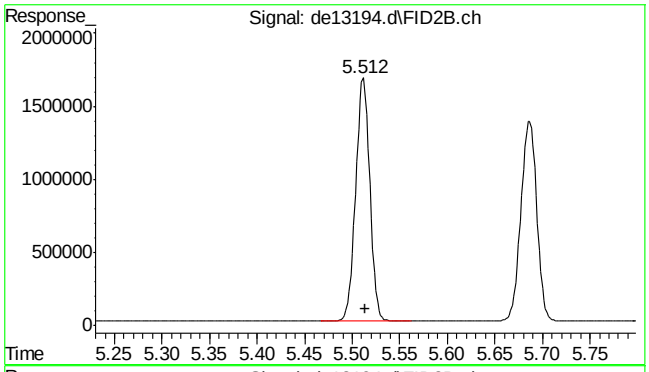
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 1597831
Conc: 20.90 µg/ml

9.5.4

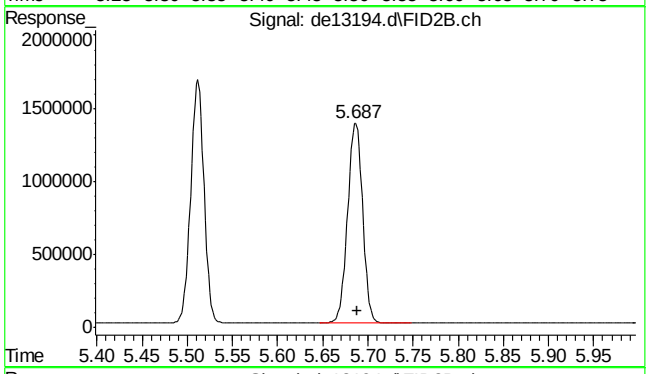
9

SGS ACCUTEST MC45538



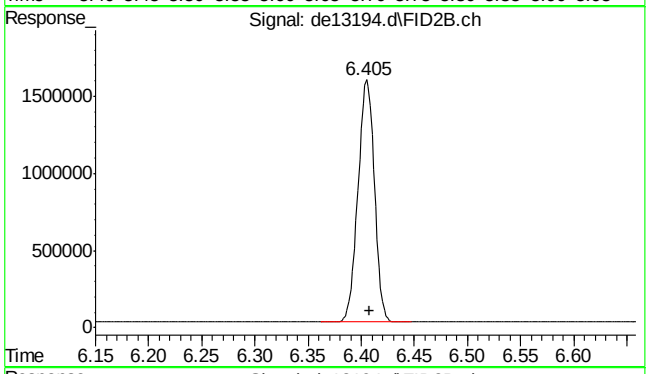
#27 naphthalene #2

R.T.: 5.512 min
Delta R.T.: -0.002 min
Response: 1701488
Conc: 21.33 µg/ml



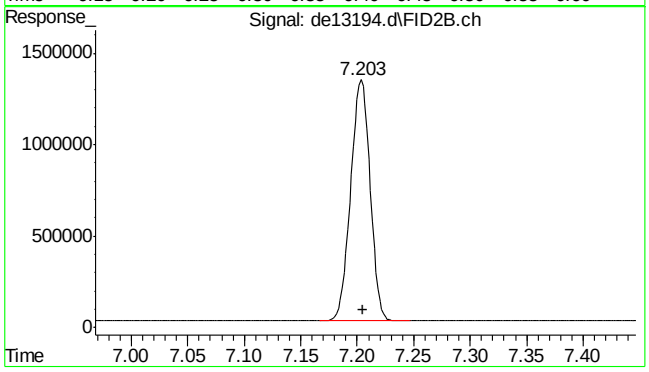
#28 c-12

R.T.: 5.687 min
Delta R.T.: -0.002 min
Response: 1581613
Conc: 20.81 µg/ml



#29 2-methylnaphthalene #2

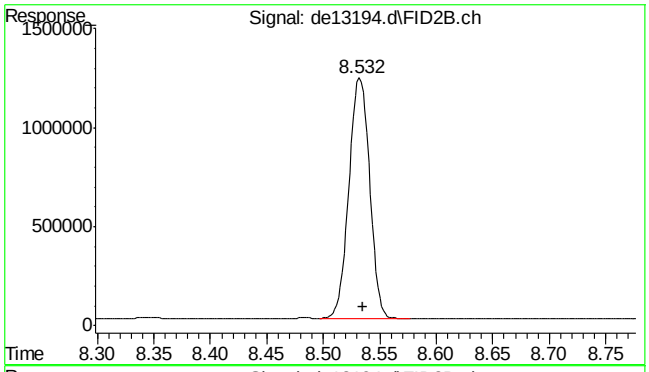
R.T.: 6.405 min
Delta R.T.: -0.003 min
Response: 1698114
Conc: 20.83 µg/ml



#30 c-14

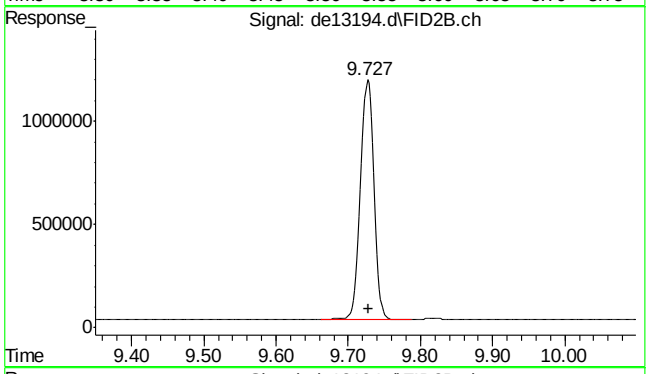
R.T.: 7.203 min
Delta R.T.: -0.002 min
Response: 1563771
Conc: 20.57 µg/ml

SGS ACCUTEST MC45538



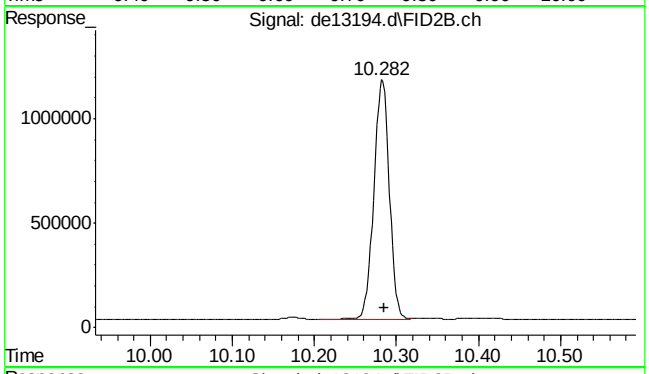
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 1537180
Conc: 20.34 µg/ml



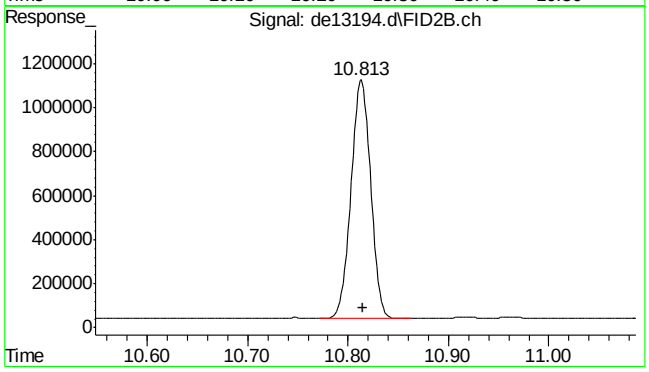
#32 c-18

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



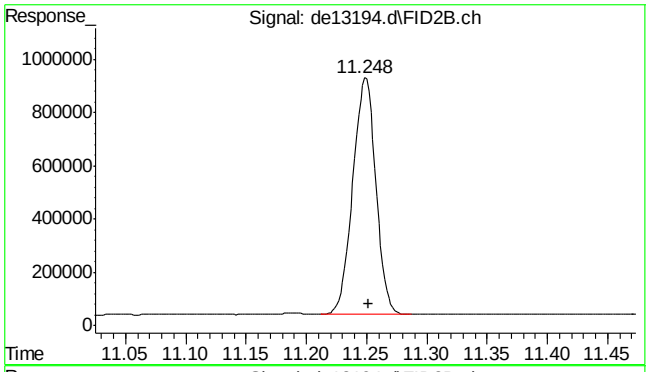
#34 c-20

R.T.: 10.813 min
Delta R.T.: -0.002 min
Response: 1468089
Conc: 20.53 µg/ml

9.5.4

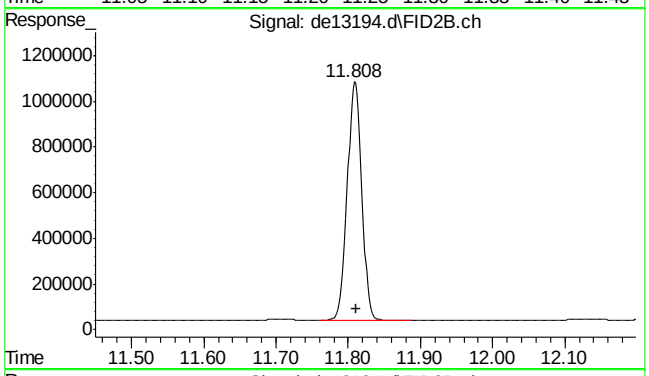
9

SGS ACCUTEST MC45538



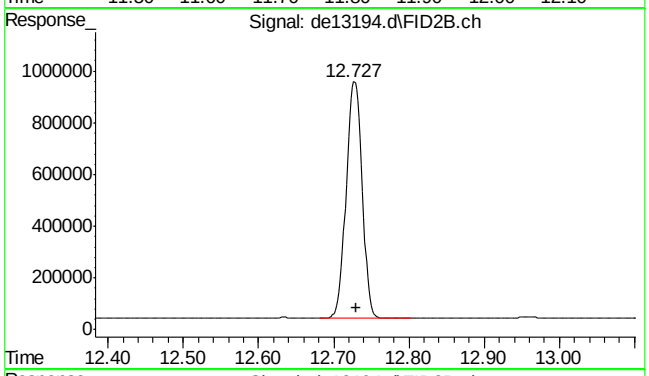
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 1182336
Conc: 20.98 µg/ml



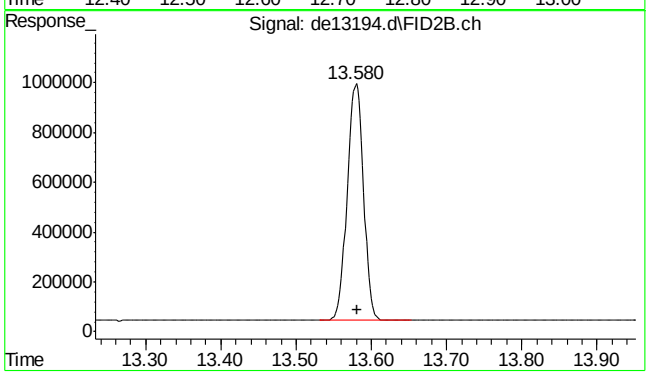
#36 c-22

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

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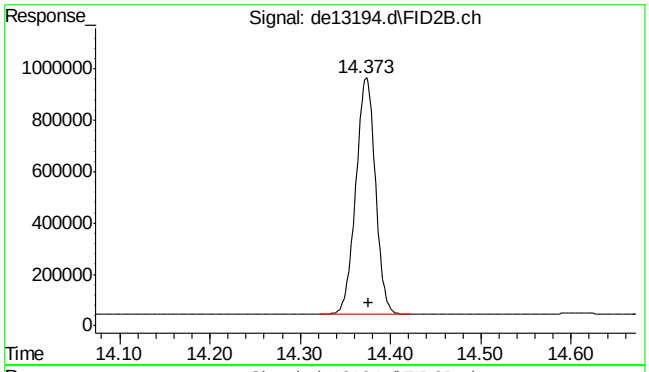
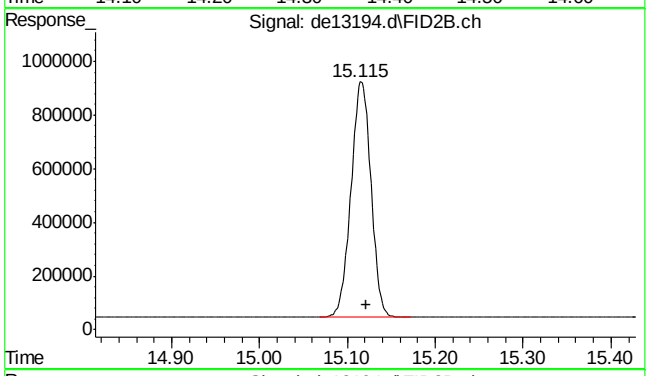


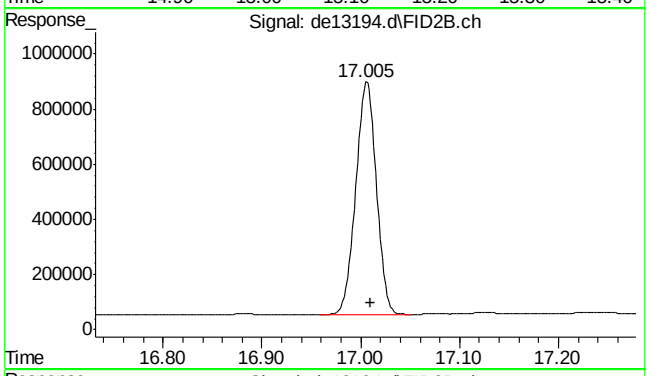
#39 c-28

R.T.: 14.373 min
Delta R.T.: -0.002 min
Response: 1385739
Conc: 20.52 µg/ml



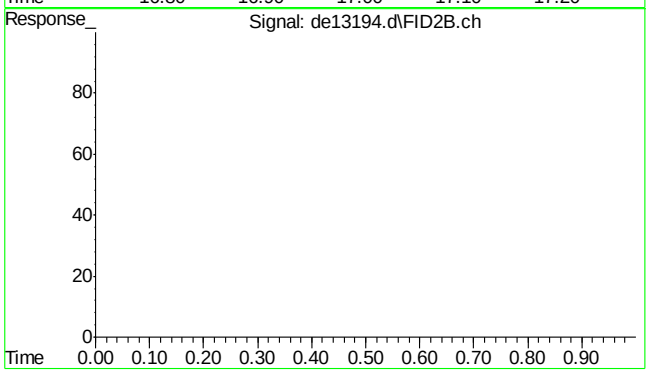
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 1377048
Conc: 20.03 µg/ml m



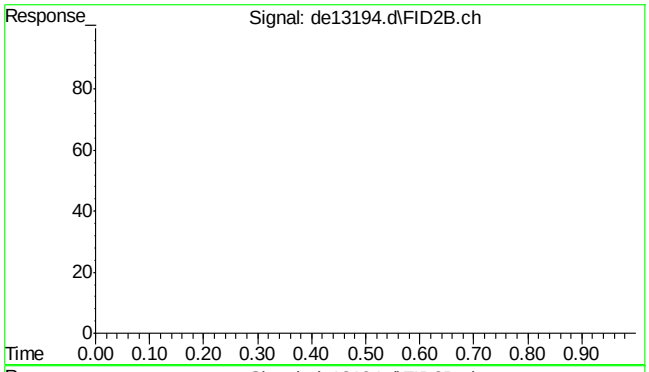
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 1222680
Conc: 20.01 µg/ml m



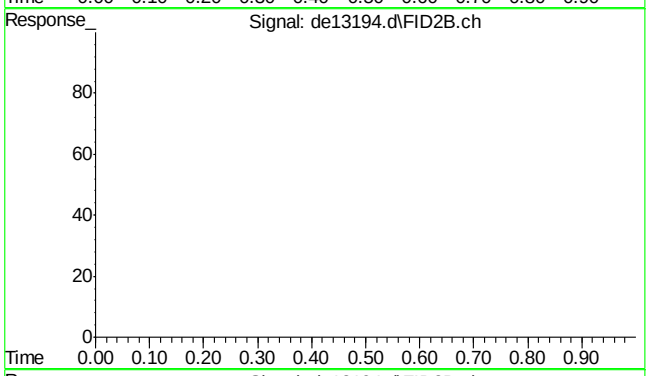
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



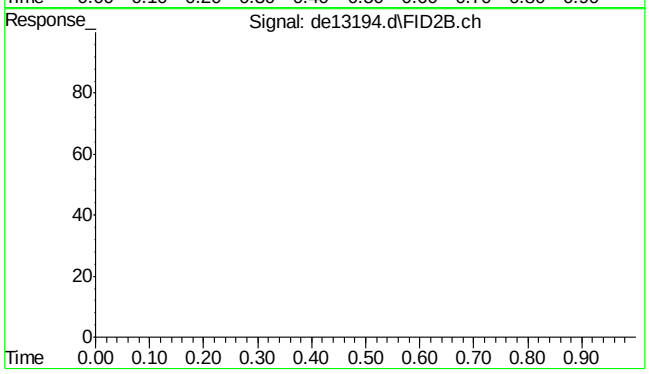
#43 bht

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

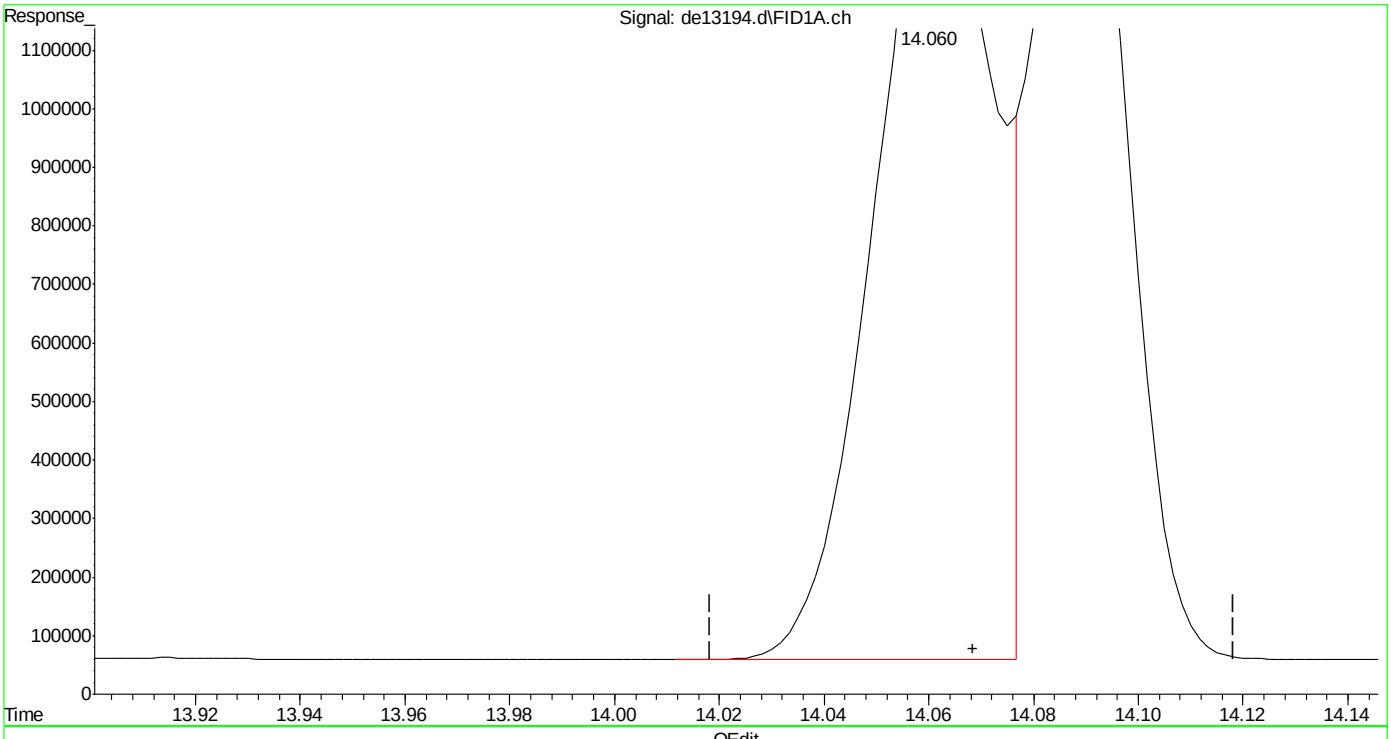
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

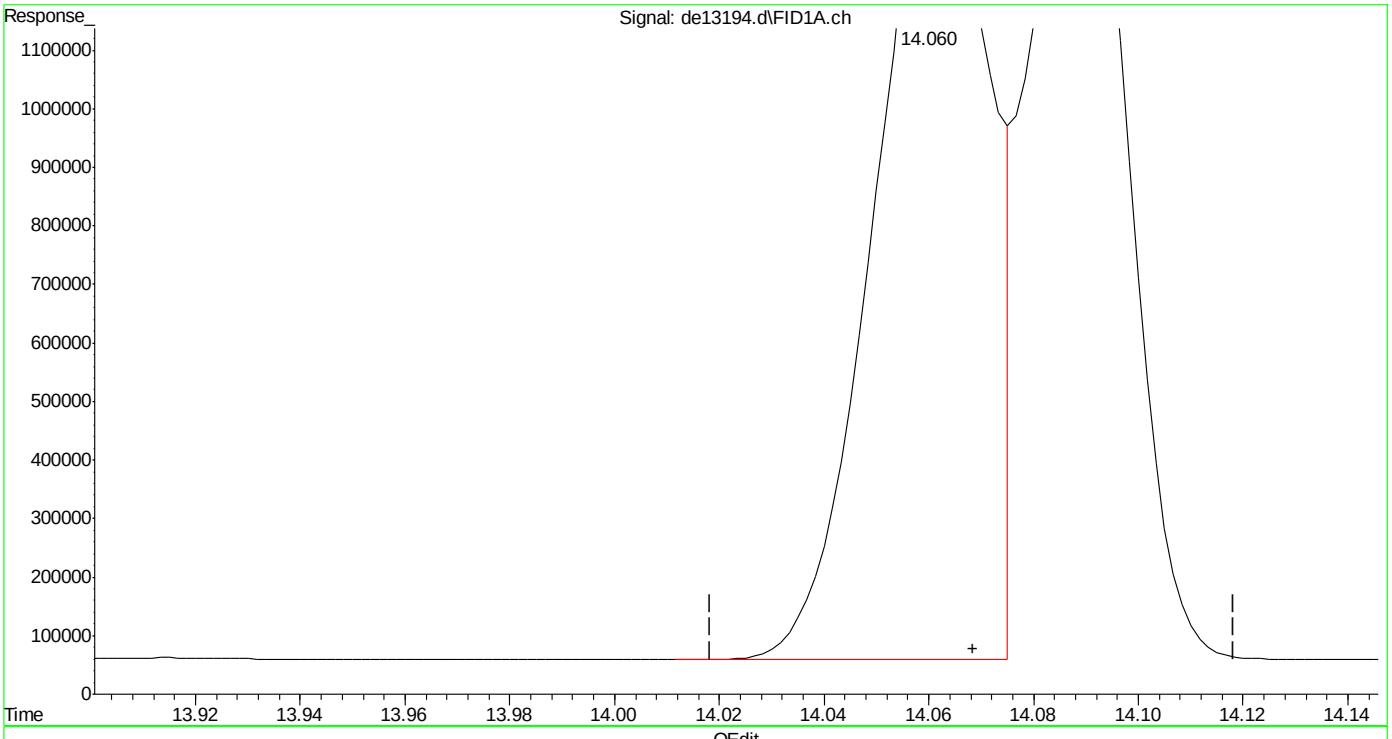
(+) = Expected Retention Time

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

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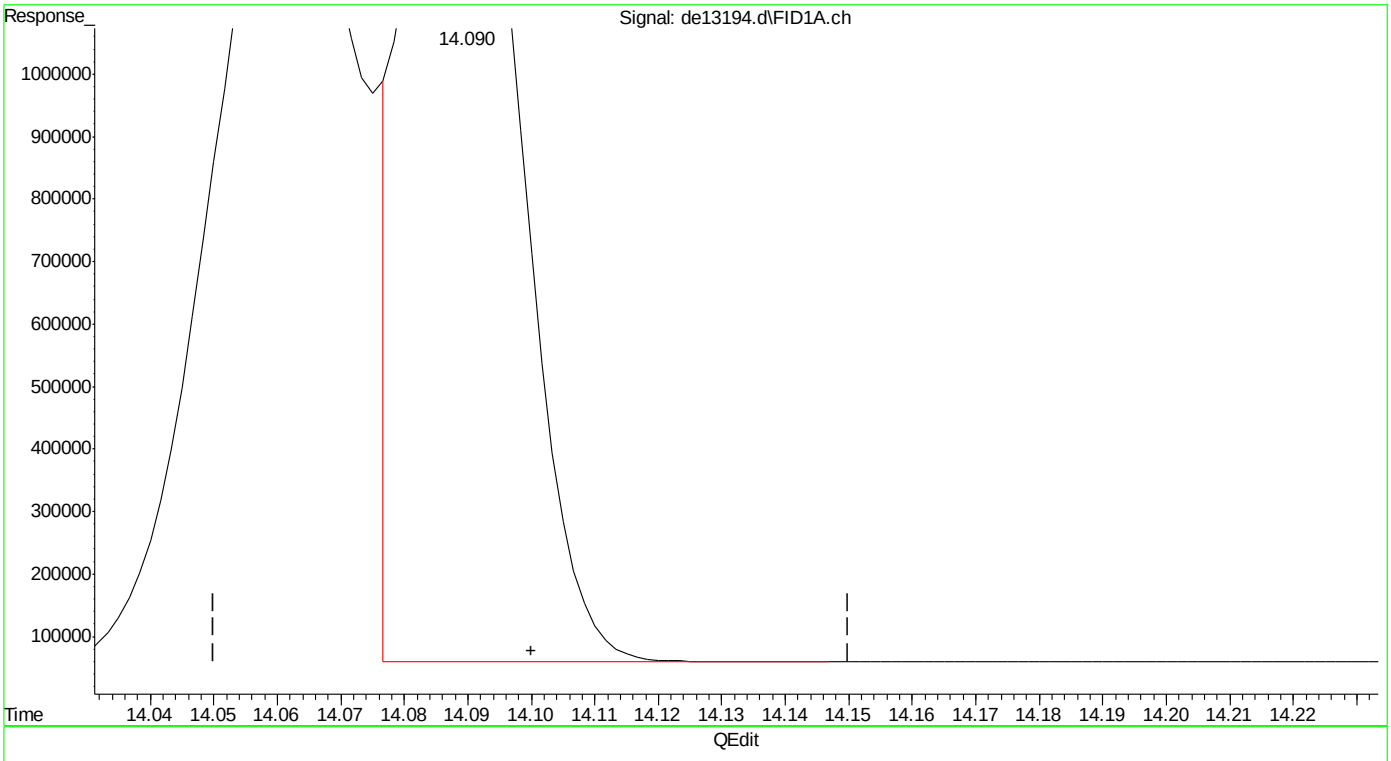
Quantitation Report (Qedit)

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

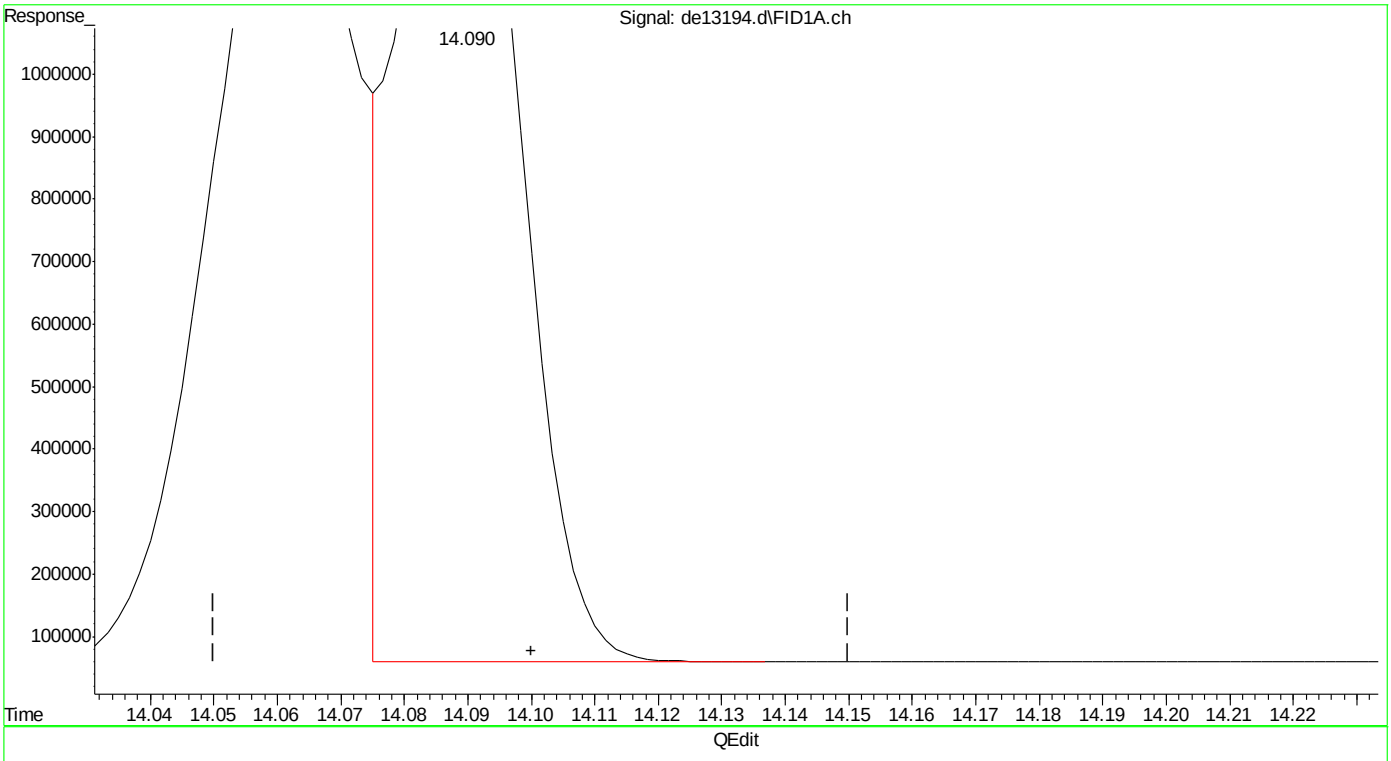
(+) = Expected Retention Time

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

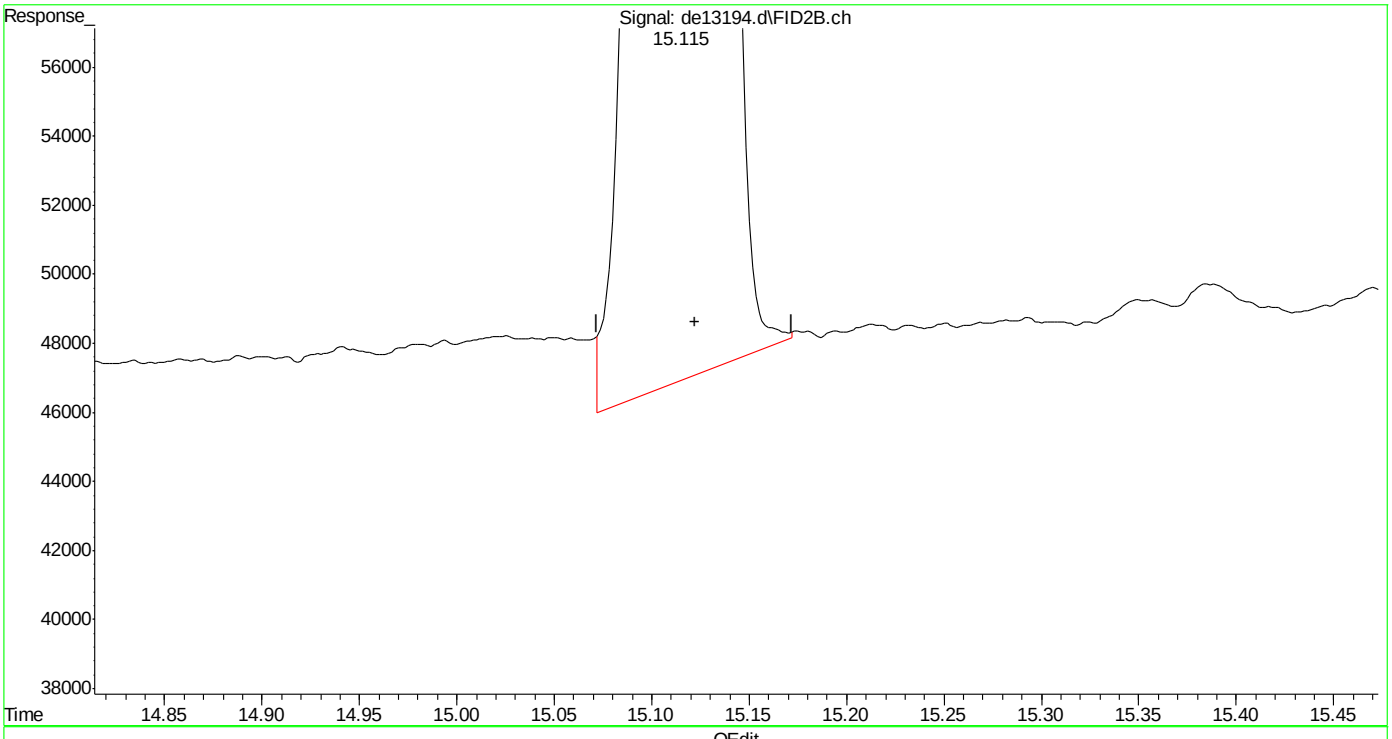
SGS ACCUTEST MC45538

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

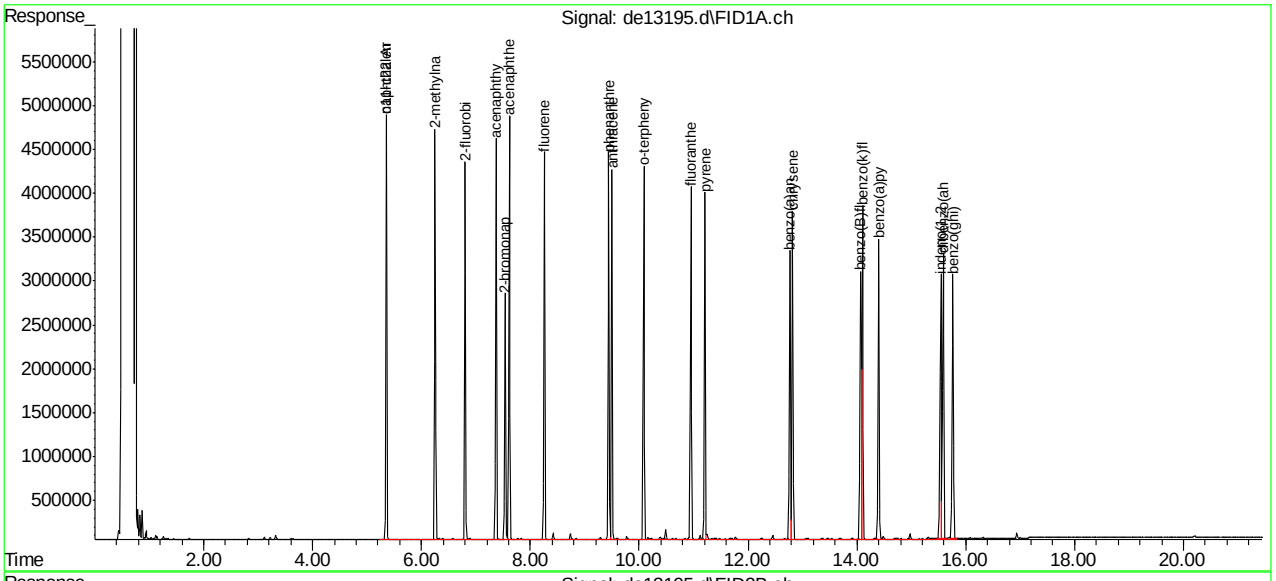
9

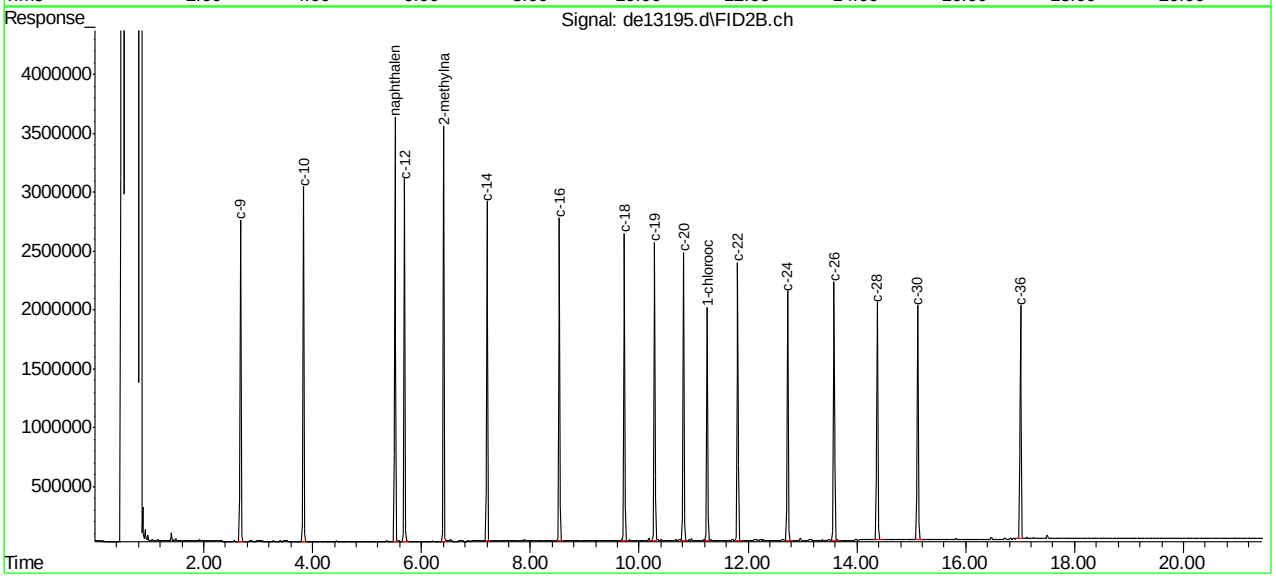
Quantitation Report (QT Reviewed)

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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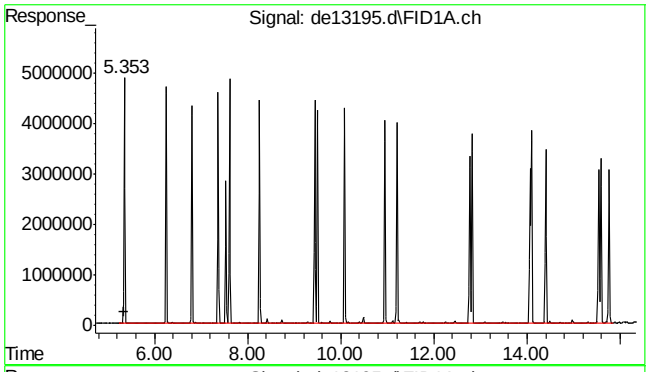
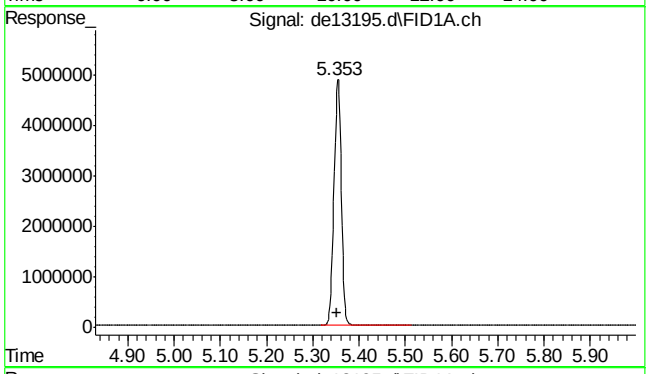


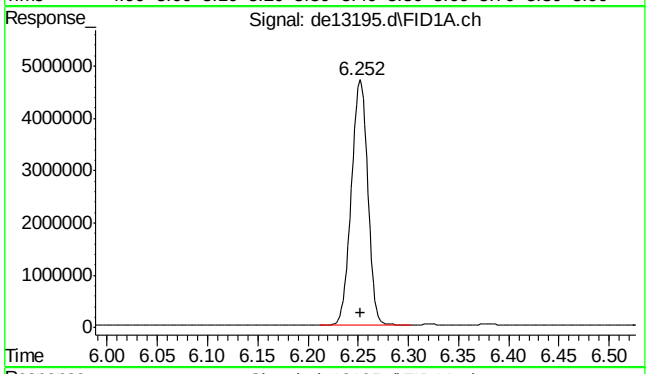
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 87424928
Conc: 52.82 µg/ml m



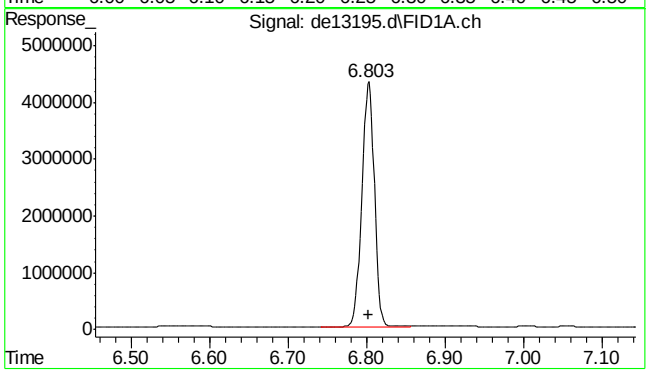
#2 naphthalene

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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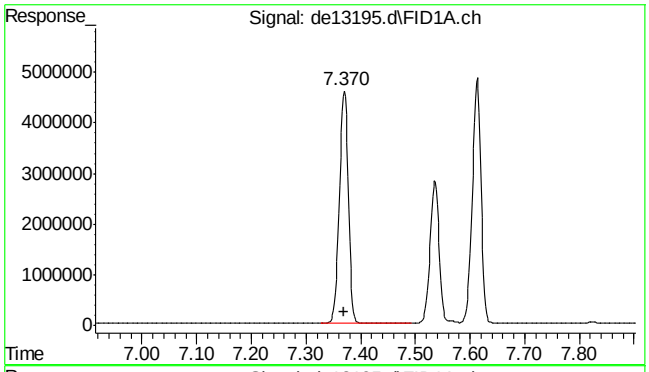
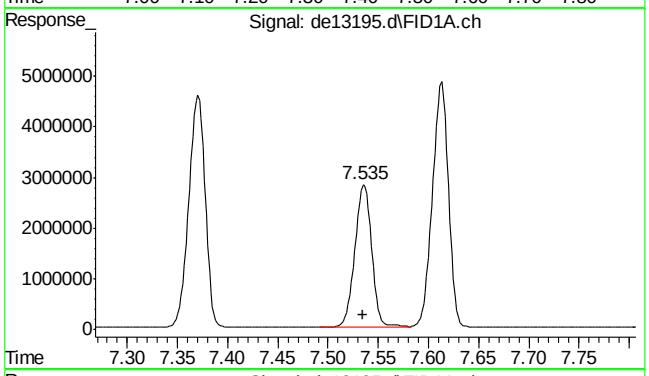


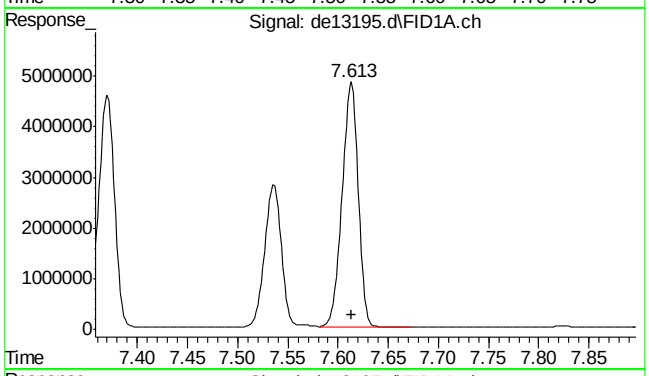
#5 acenaphthylene

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 5189849
Conc: 50.86 µg/ml



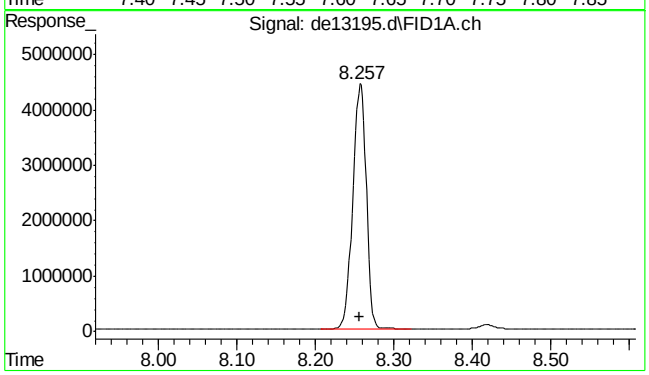
#6 2-bromonaphthalene

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



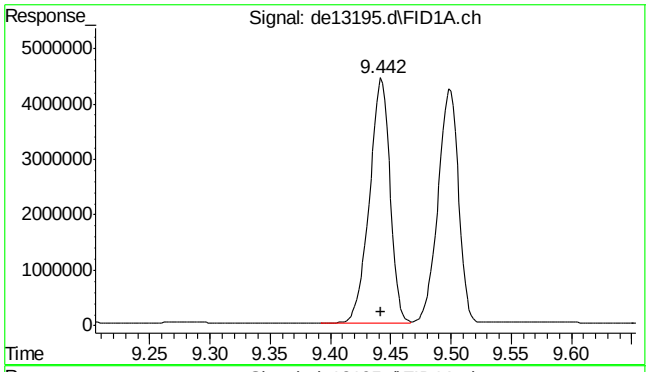
#8 fluorene

R.T.: 8.257 min
Delta R.T.: 0.000 min
Response: 5242546
Conc: 51.07 µg/ml

9.5.5

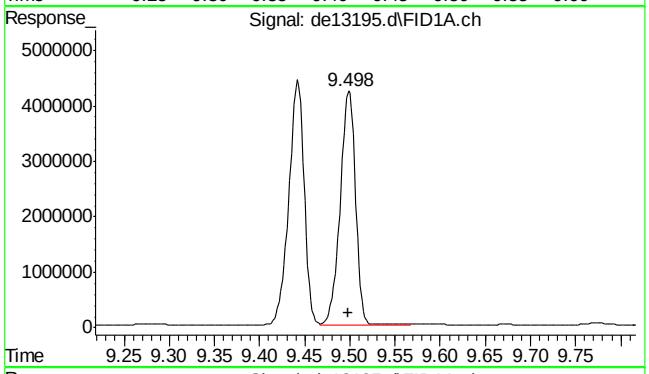
9

SGS ACCUTEST MC45538



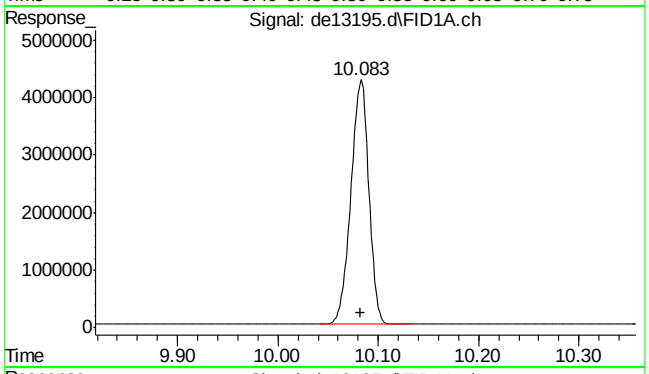
#9 phenanthrene

R.T.: 9.442 min
Delta R.T.: 0.000 min
Response: 5223164
Conc: 50.91 µg/ml



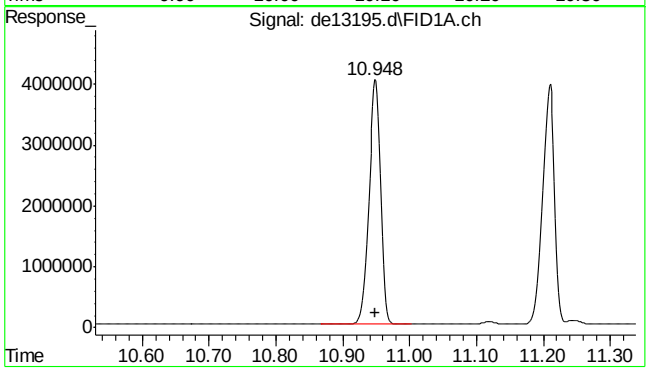
#10 anthracene

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



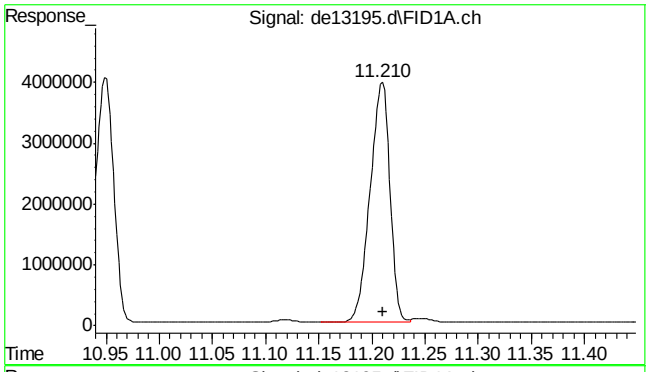
#12 fluoranthene

R.T.: 10.948 min
Delta R.T.: 0.000 min
Response: 5079973
Conc: 50.44 µg/ml

9.5.5

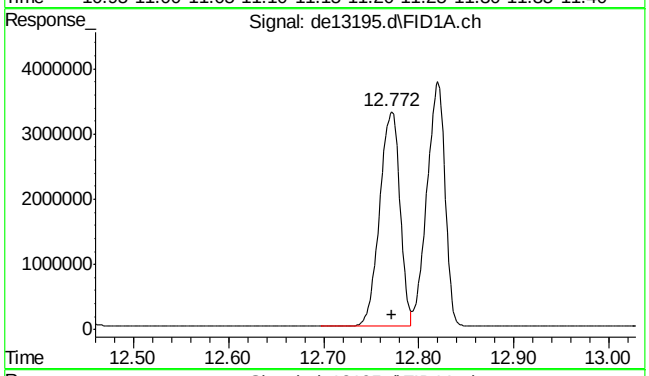
9

SGS ACCUTEST MC45538



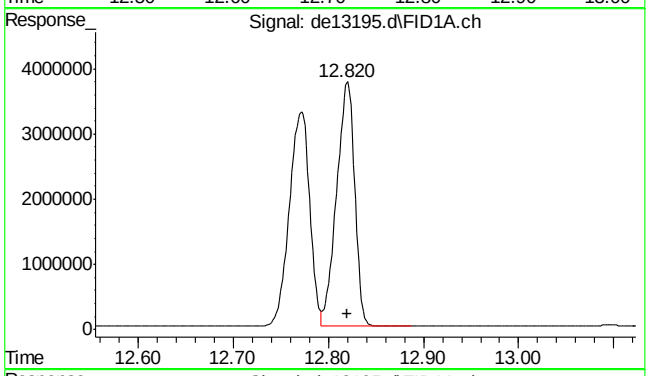
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5123787
Conc: 50.16 µg/ml



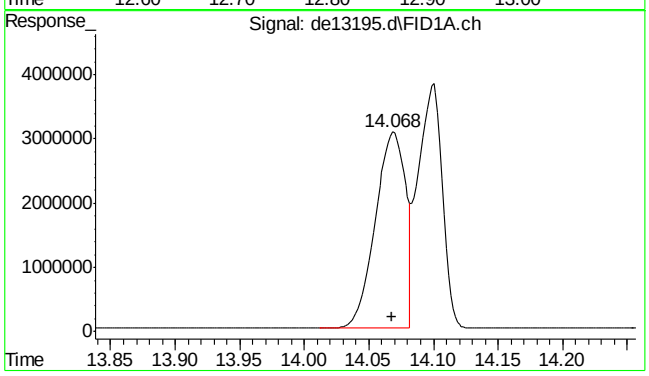
#14 benzo(a)anthracene

R.T.: 12.772 min
Delta R.T.: 0.000 min
Response: 4883350
Conc: 50.33 µg/ml



#15 chrysene

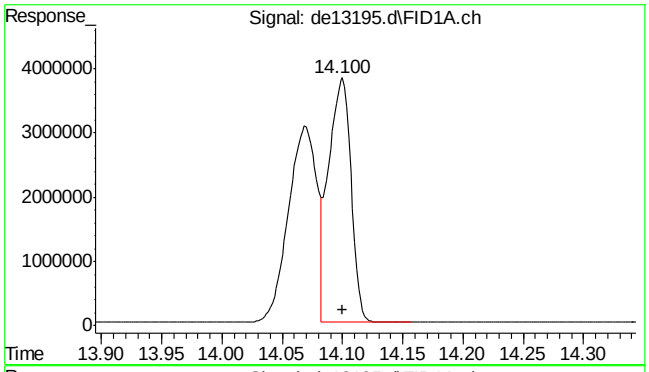
R.T.: 12.820 min
Delta R.T.: 0.000 min
Response: 4951740
Conc: 50.66 µg/ml



#16 benzo(B)fluoranthene

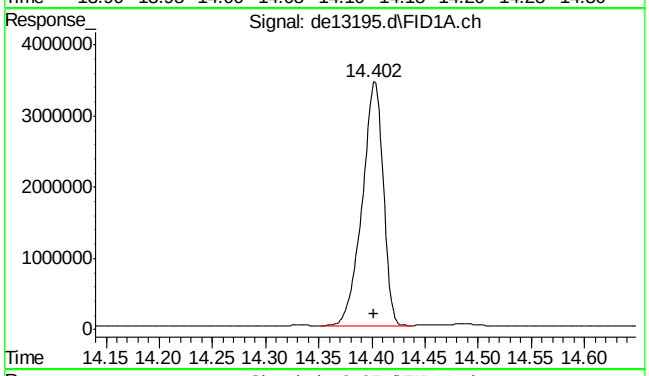
R.T.: 14.068 min
Delta R.T.: 0.000 min
Response: 4980192
Conc: 49.82 µg/ml

SGS ACCUTEST MC45538



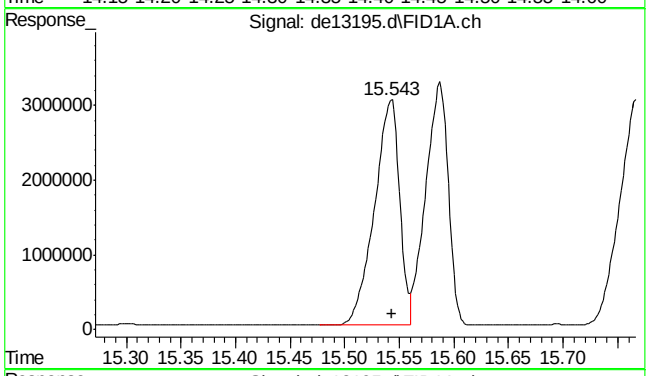
#17 benzo(k)fluoranthene

R.T.: 14.100 min
Delta R.T.: 0.000 min
Response: 4922694
Conc: 51.39 µg/ml



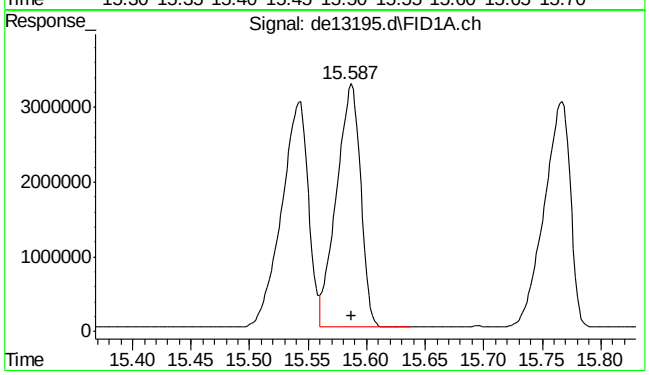
#18 benzo(a)pyrene

R.T.: 14.402 min
Delta R.T.: 0.000 min
Response: 4724847
Conc: 50.44 µg/ml



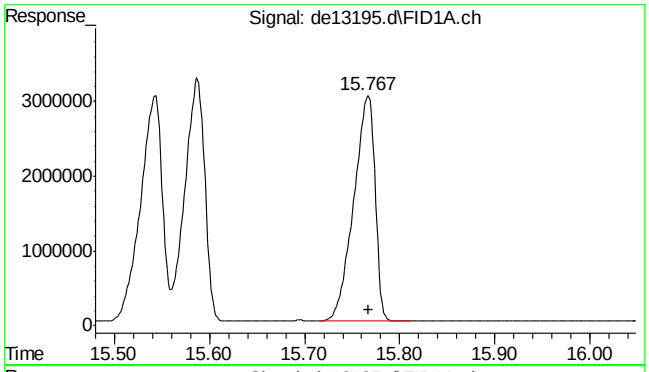
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4854725
Conc: 50.33 µg/ml m



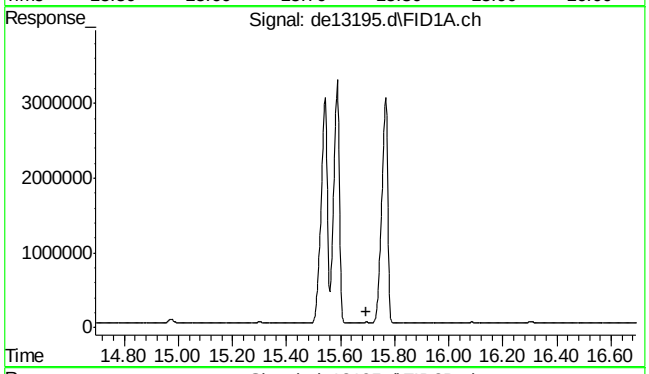
#20 dibenzo(ah)anthracene

R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 4685536
Conc: 50.80 µg/ml m



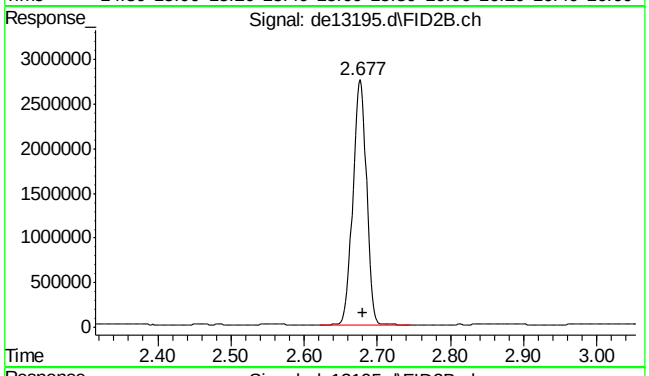
#21 benzo(ghi)perylene

R.T.: 15.767 min
Delta R.T.: 0.000 min
Response: 4705124
Conc: 50.47 µg/ml



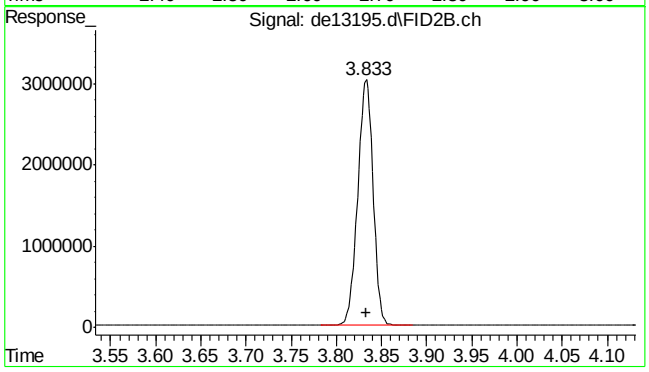
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

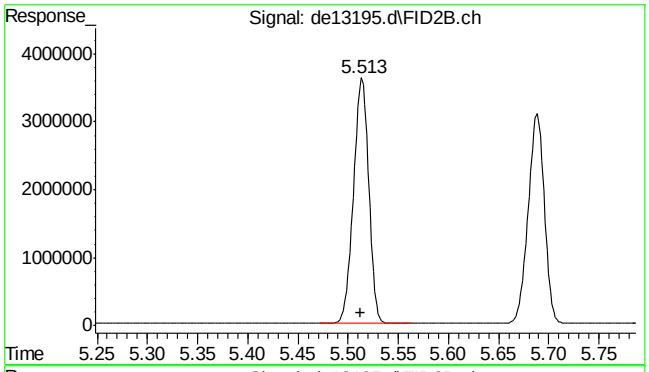
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3541836
Conc: 46.37 µg/ml m



#26 c-10

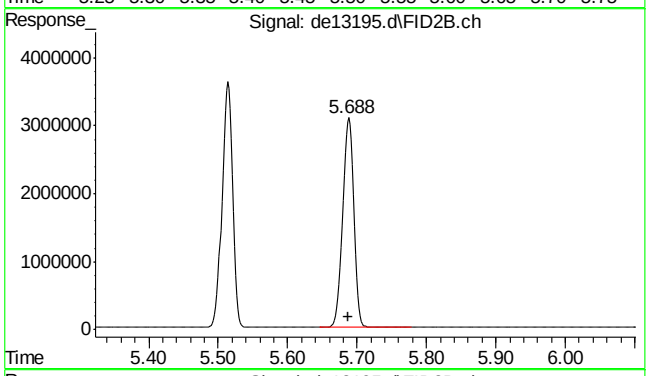
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3570776
Conc: 46.37 µg/ml

SGS ACCUTEST MC45538



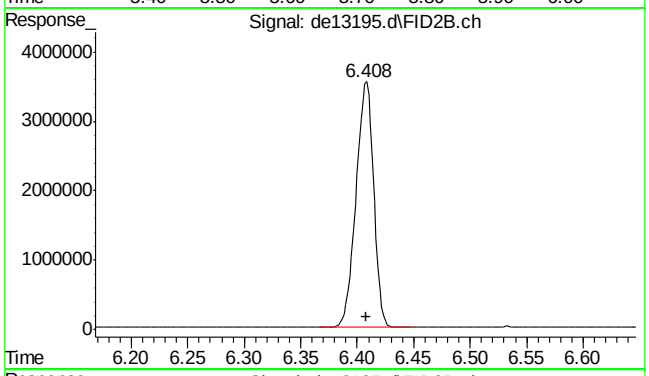
#27 naphthalene #2

R.T.: 5.513 min
Delta R.T.: 0.000 min
Response: 3805435
Conc: 47.63 µg/ml



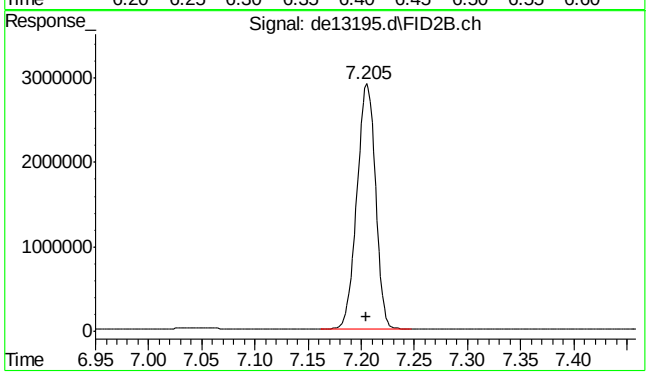
#28 c-12

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



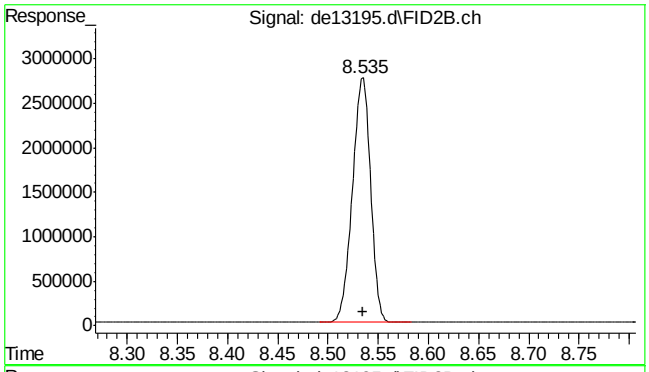
#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3516096
Conc: 46.03 µg/ml

9.5.5

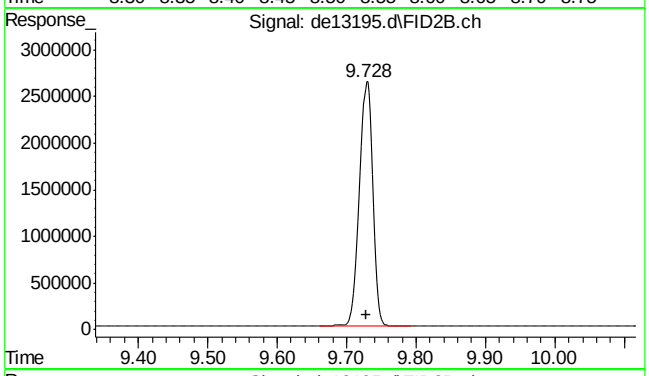
9

SGS ACCUTEST MC45538



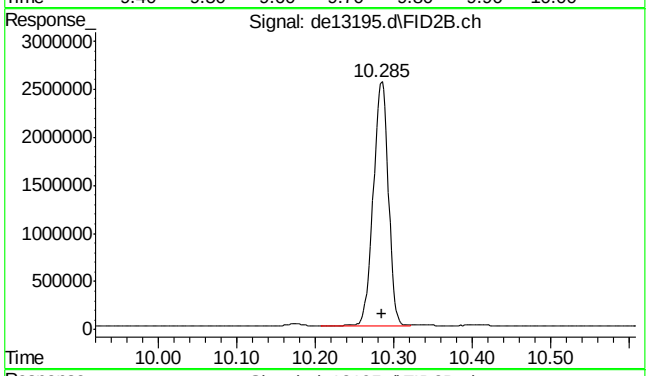
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3450251
Conc: 45.52 µg/ml



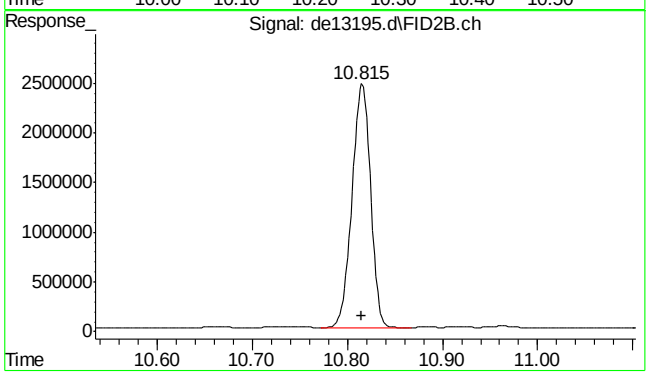
#32 c-18

R.T.: 9.728 min
Delta R.T.: 0.000 min
Response: 3414559
Conc: 45.53 µg/ml



#33 c-19

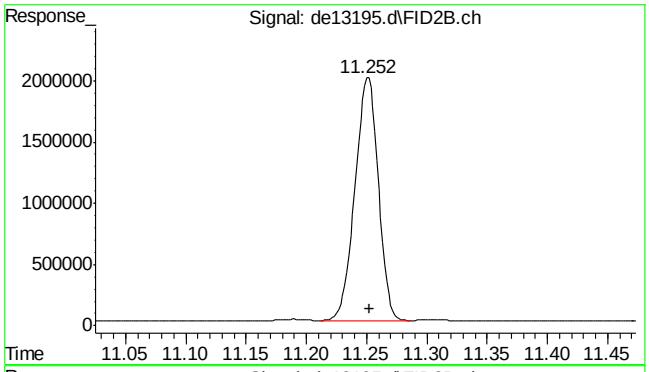
R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3383527
Conc: 46.15 µg/ml



#34 c-20

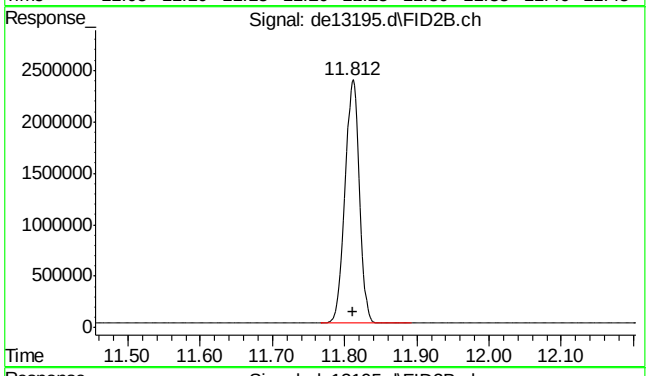
R.T.: 10.815 min
Delta R.T.: 0.000 min
Response: 3319667
Conc: 46.22 µg/ml

SGS ACCUTEST MC45538



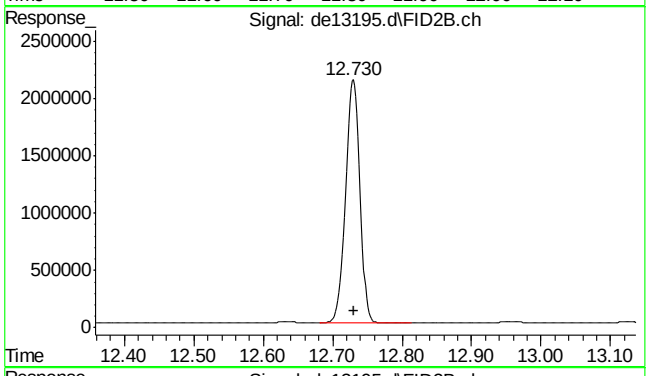
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2679754
Conc: 47.47 µg/ml



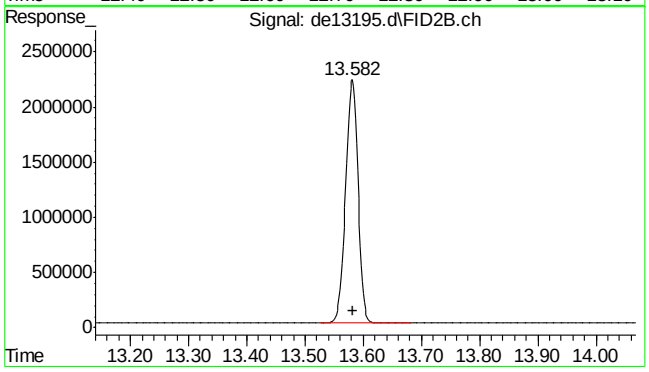
#36 c-22

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



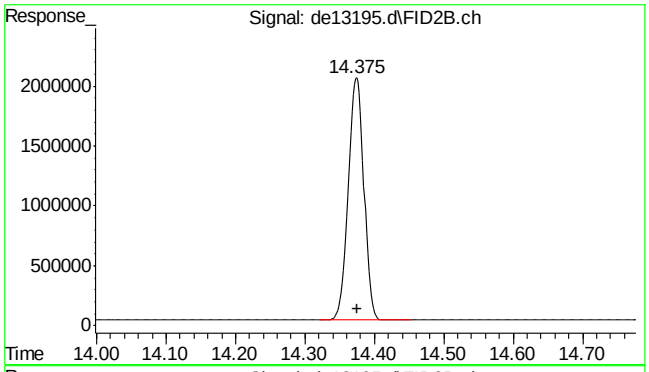
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3260990
Conc: 46.52 µg/ml

9.5.5

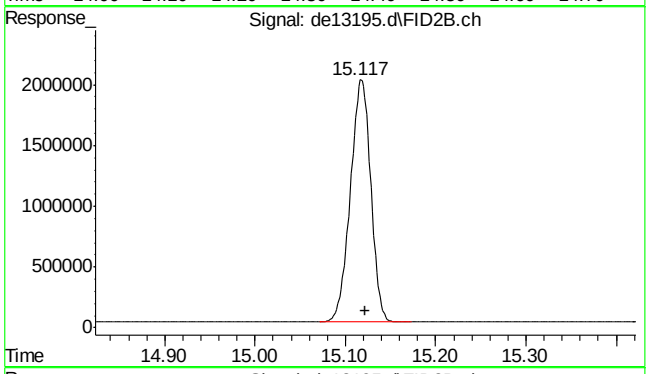
9

SGS ACCUTEST MC45538



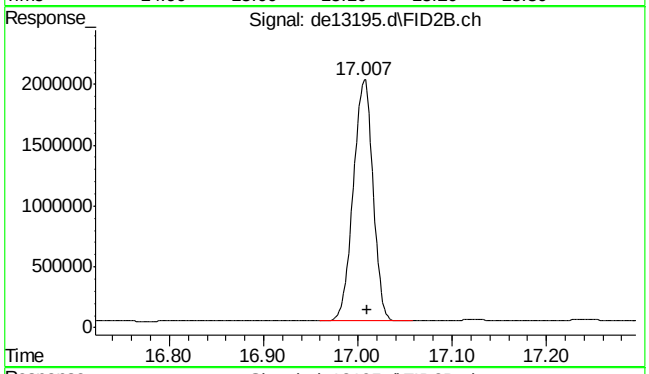
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3155644
Conc: 46.53 µg/ml



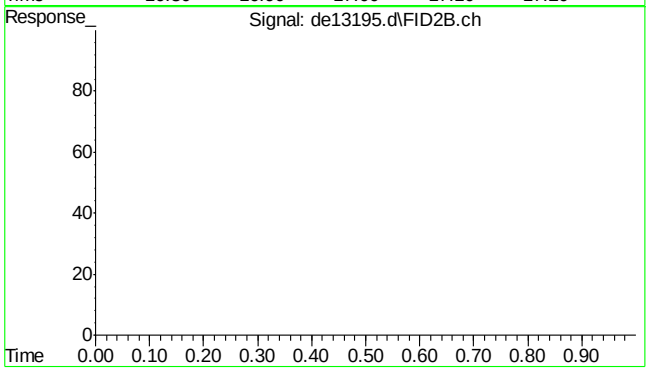
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3152151
Conc: 45.84 µg/ml



#41 c-36

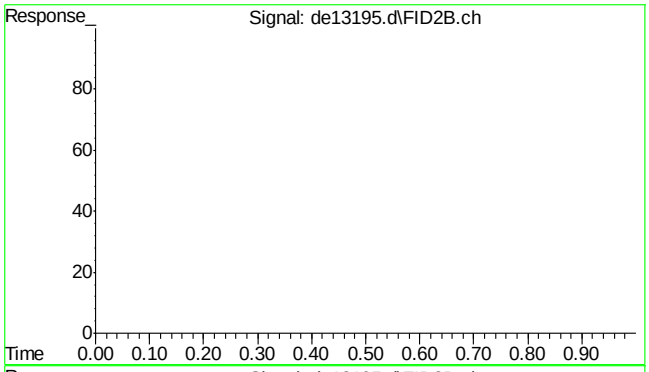
R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2883025
Conc: 47.18 µg/ml m



#42 bht

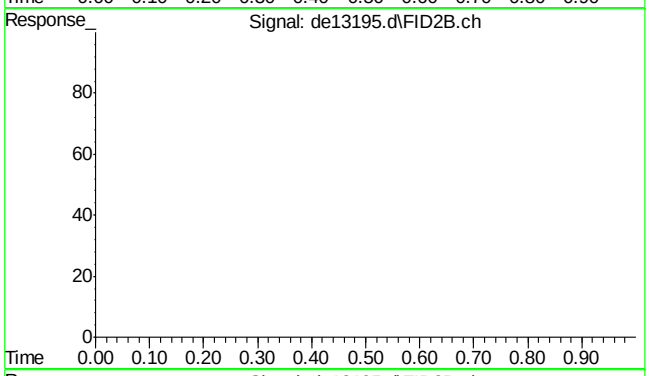
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



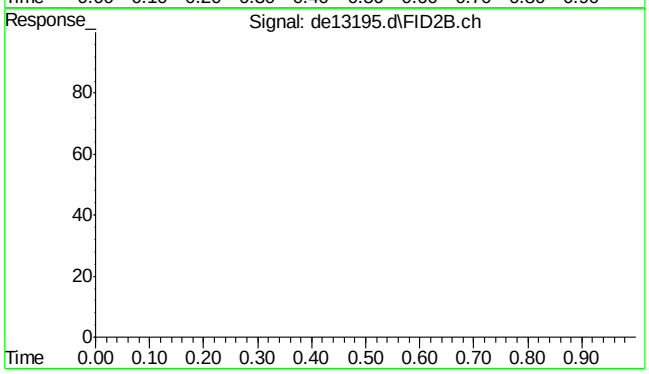
#43 bht

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

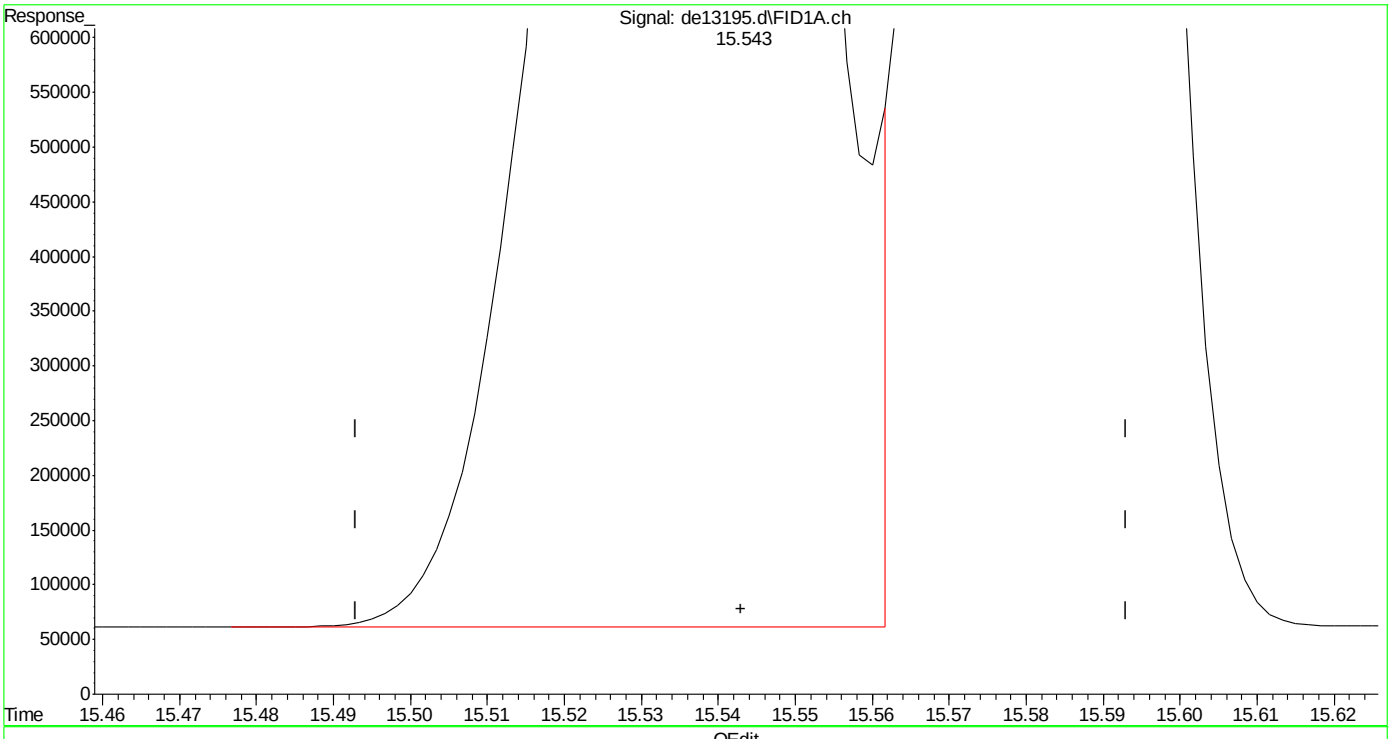
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : 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

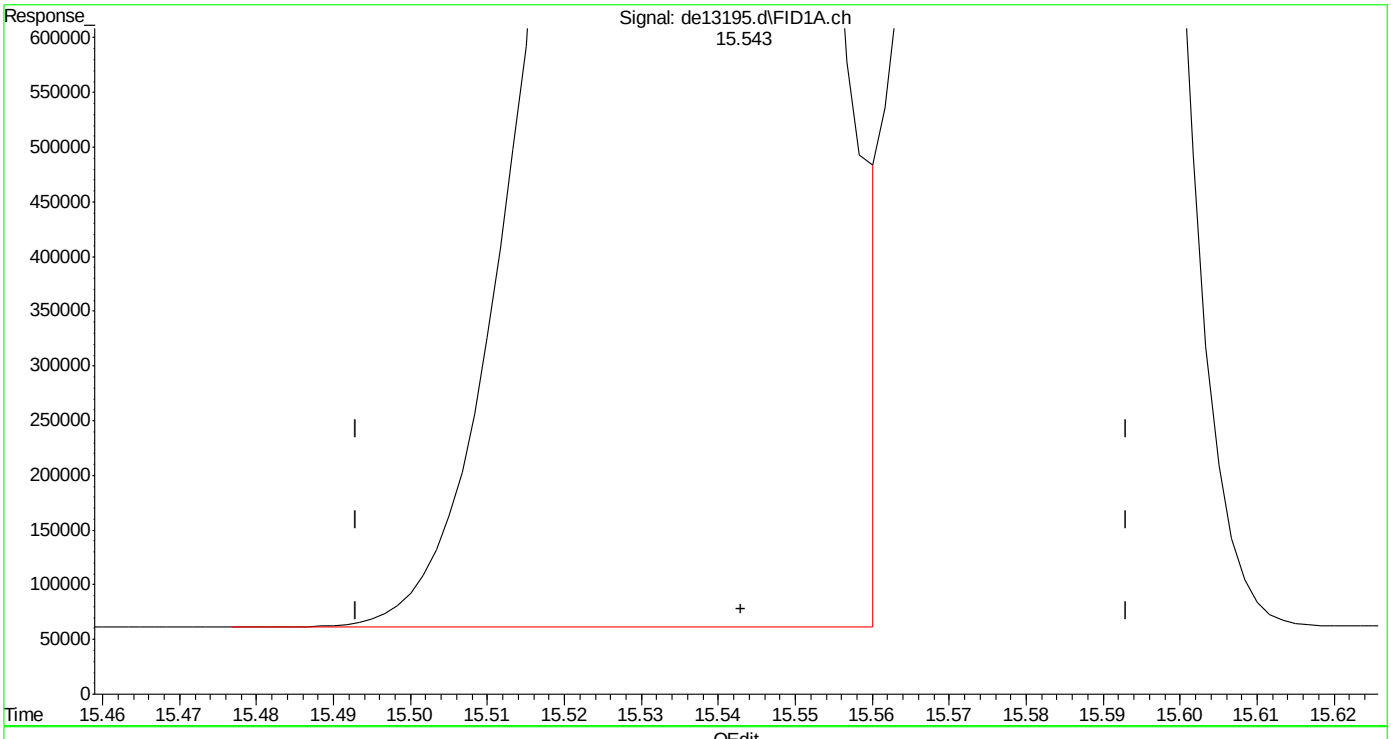
SGS ACCUTEST MC45538

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

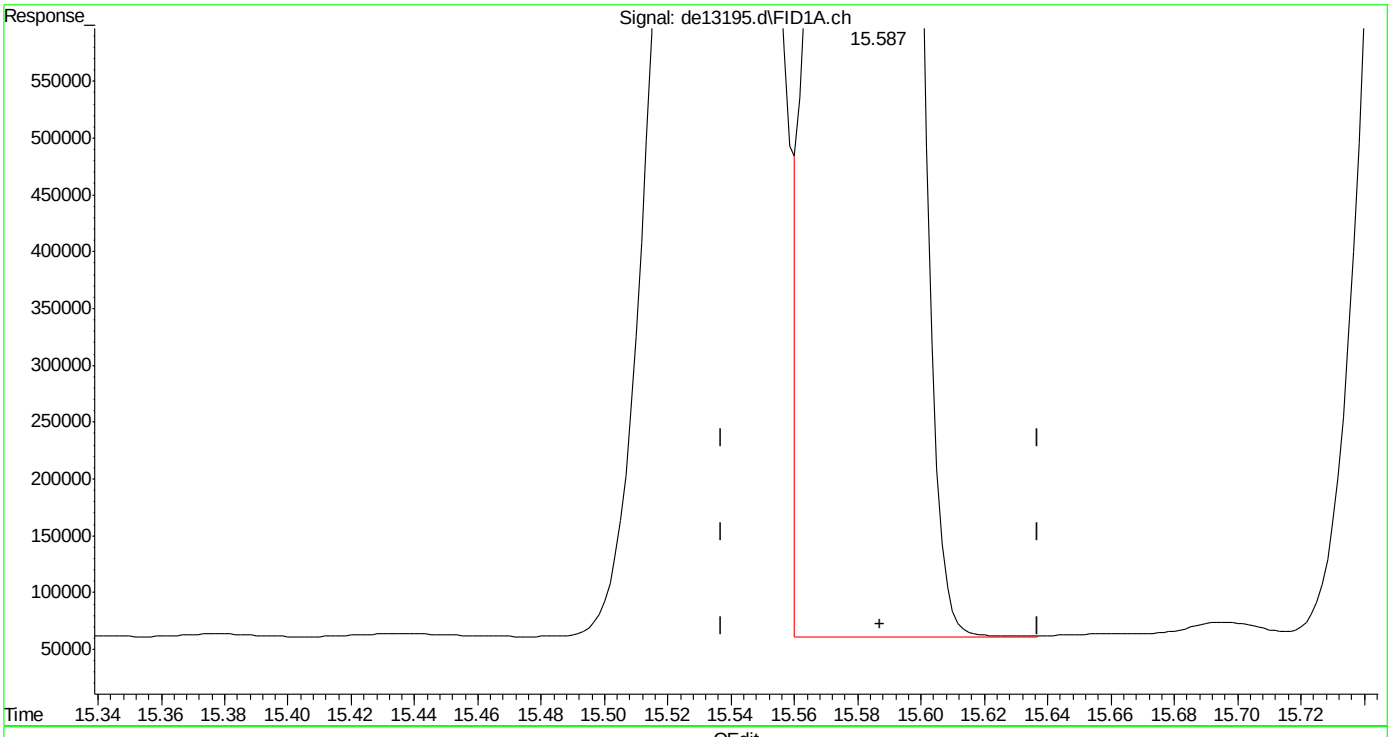
(+) = Expected Retention Time

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

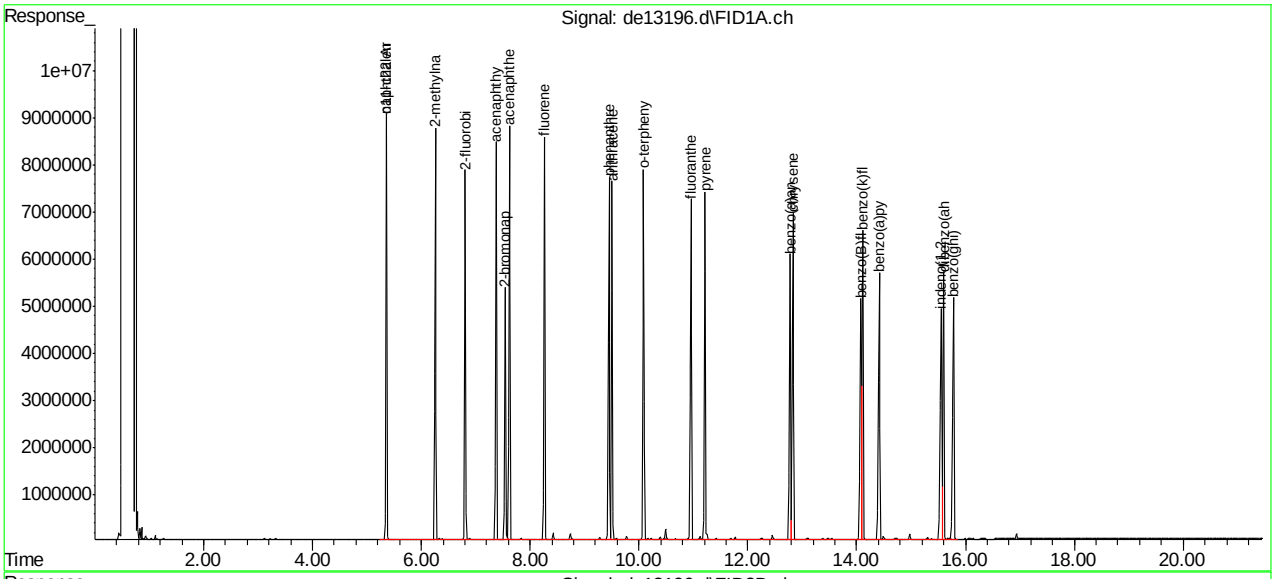
SGS ACCUTEST MC45538

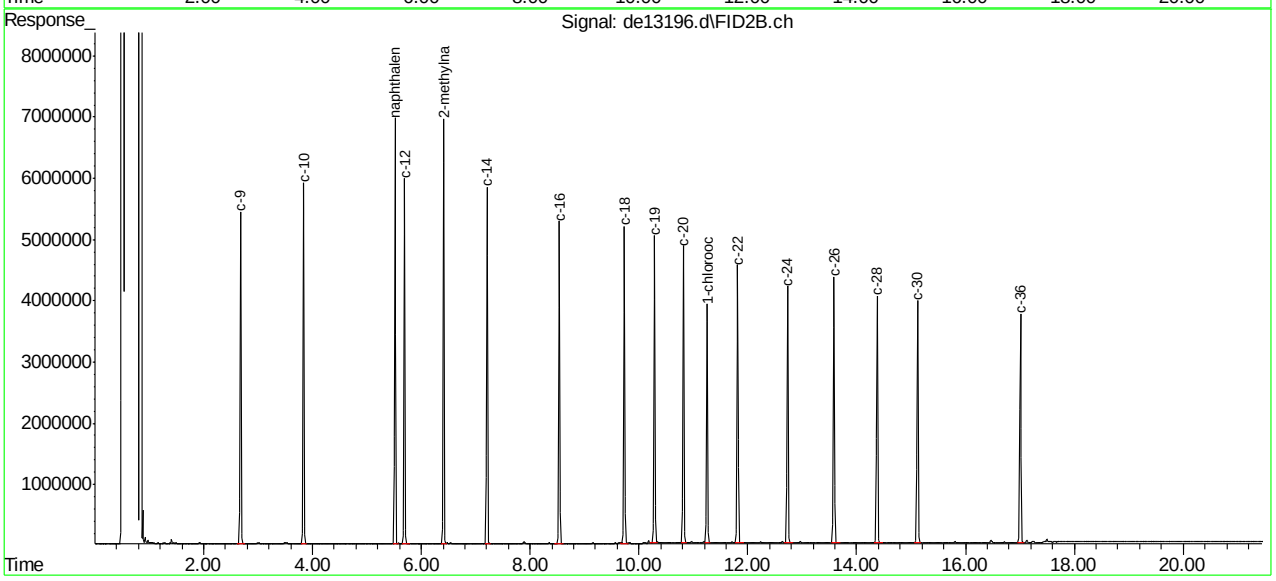
Quantitation Report (QT Reviewed)

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

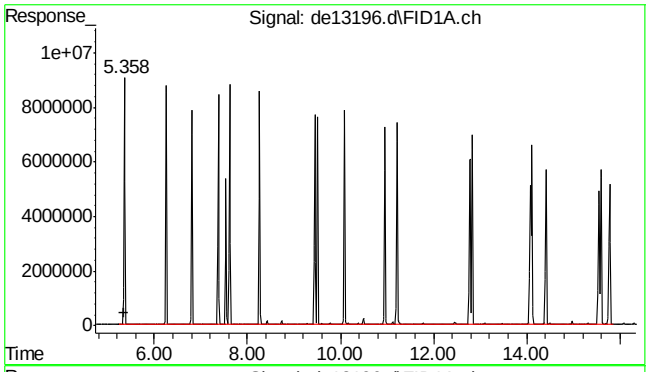
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



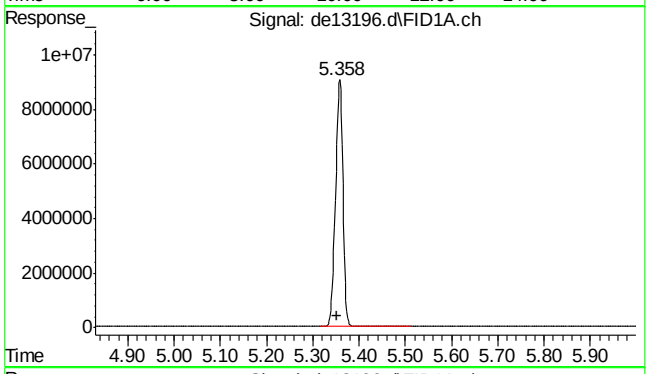


SGS ACCUTEST MC45538



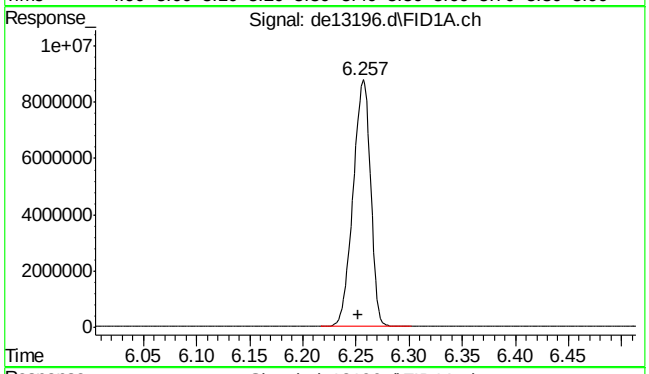
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 164719881
Conc: 99.53 µg/ml m



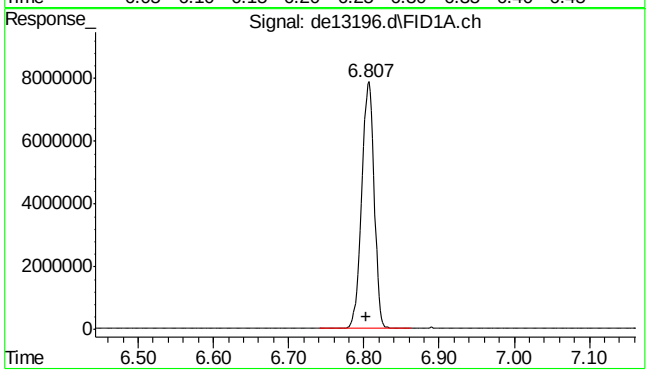
#2 naphthalene

R.T.: 5.358 min
Delta R.T.: 0.005 min
Response: 10142634
Conc: 96.94 µg/ml



#3 2-methylnaphthalene

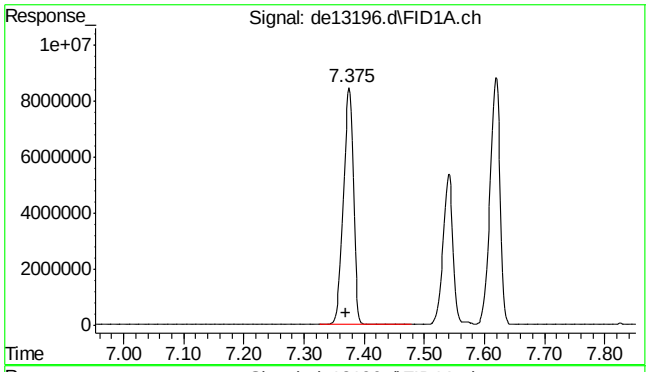
R.T.: 6.257 min
Delta R.T.: 0.005 min
Response: 9997868
Conc: 96.35 µg/ml



#4 2-fluorobiphenyl

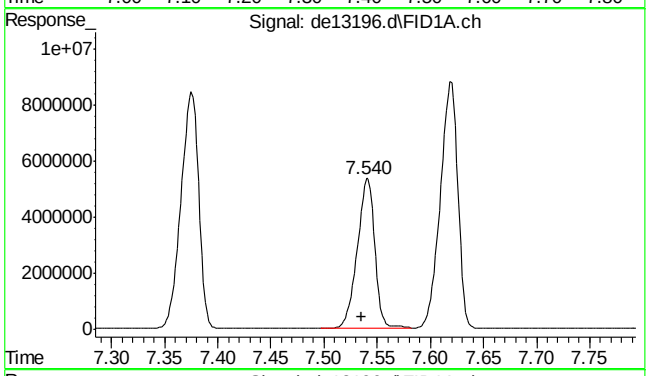
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 8980683
Conc: 96.25 µg/ml

SGS ACCUTEST MC45538



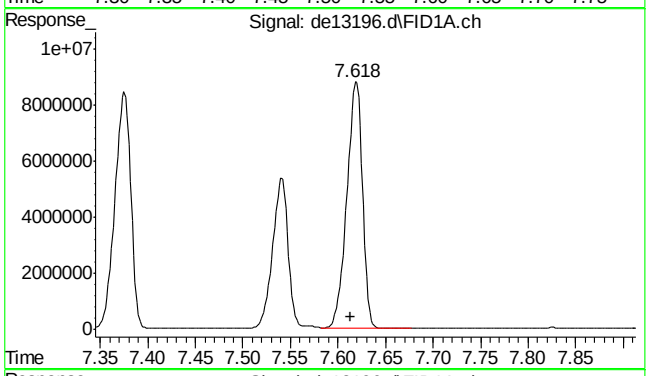
#5 acenaphthylene

R.T.: 7.375 min
Delta R.T.: 0.005 min
Response: 9776029
Conc: 95.80 µg/ml



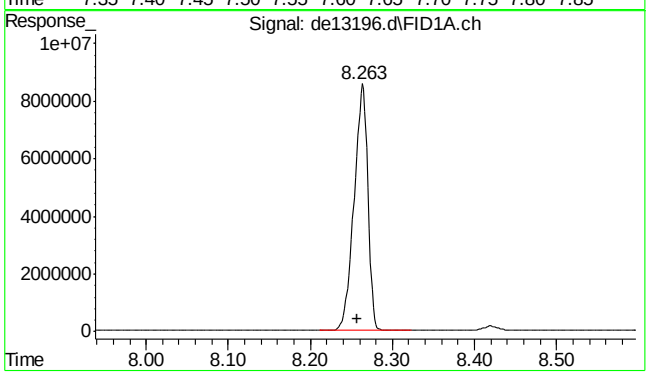
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 6121297
Conc: 96.50 µg/ml



#7 acenaphthene

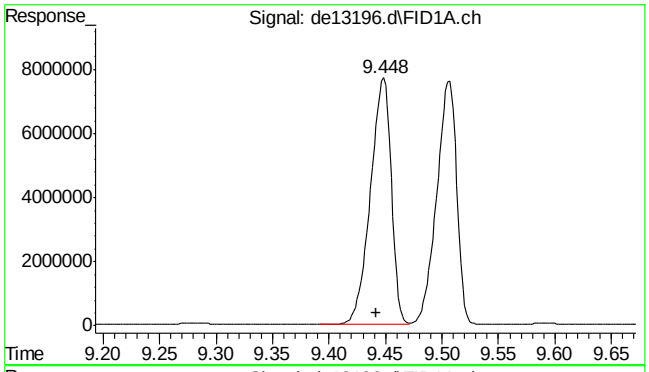
R.T.: 7.618 min
Delta R.T.: 0.005 min
Response: 10095451
Conc: 96.62 µg/ml



#8 fluorene

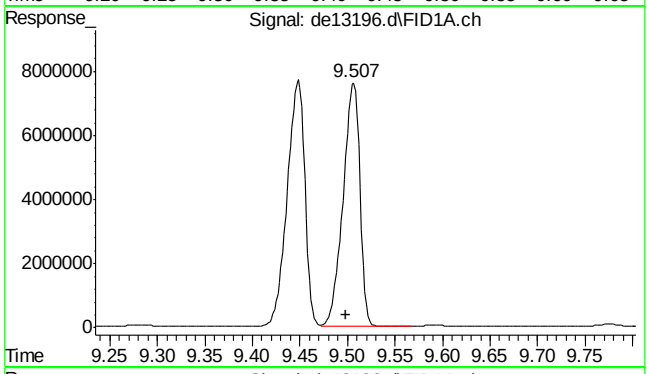
R.T.: 8.263 min
Delta R.T.: 0.006 min
Response: 9889893
Conc: 96.35 µg/ml

SGS ACCUTEST MC45538



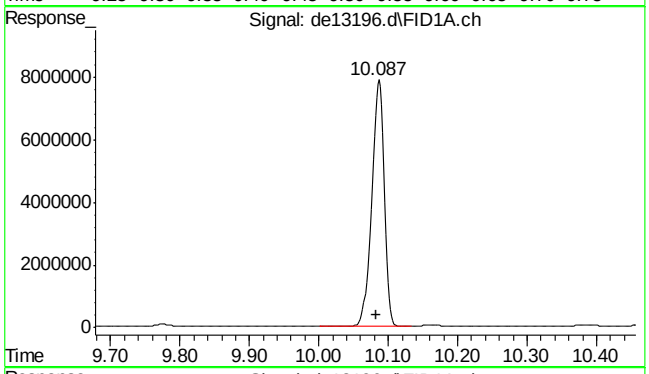
#9 phenanthrene

R.T.: 9.448 min
Delta R.T.: 0.006 min
Response: 9875264
Conc: 96.26 µg/ml



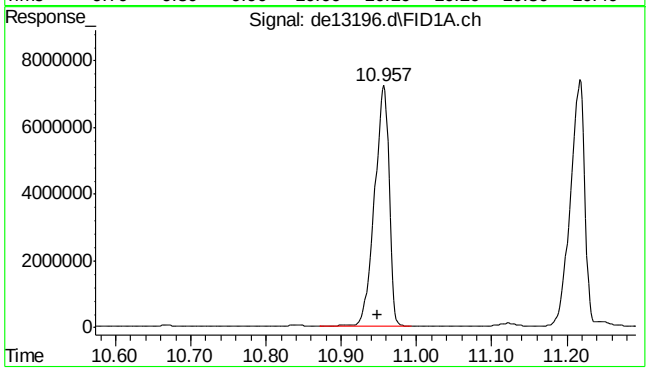
#10 anthracene

R.T.: 9.507 min
Delta R.T.: 0.009 min
Response: 9378790
Conc: 97.02 µg/ml



#11 o-terphenyl

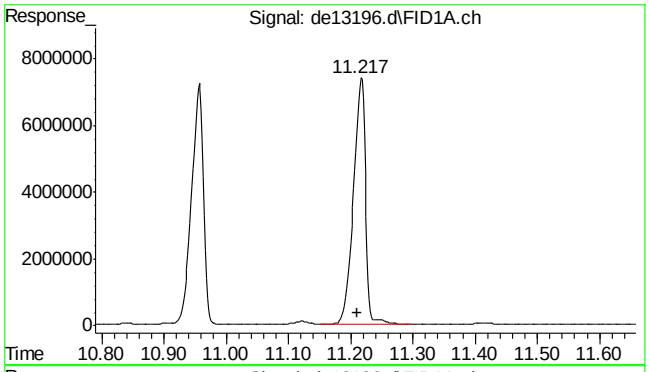
R.T.: 10.087 min
Delta R.T.: 0.004 min
Response: 9937595
Conc: 96.37 µg/ml



#12 fluoranthene

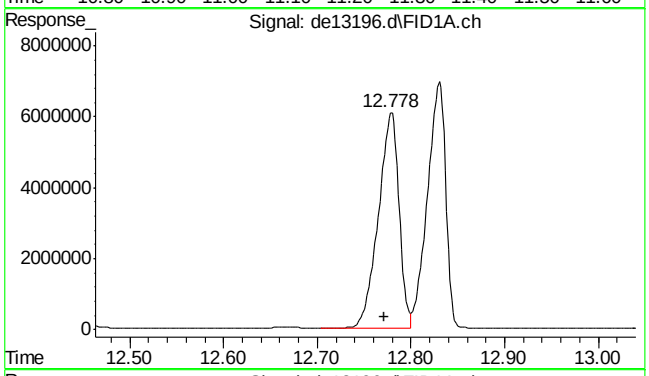
R.T.: 10.957 min
Delta R.T.: 0.009 min
Response: 9629565
Conc: 95.61 µg/ml

SGS ACCUTEST MC45538



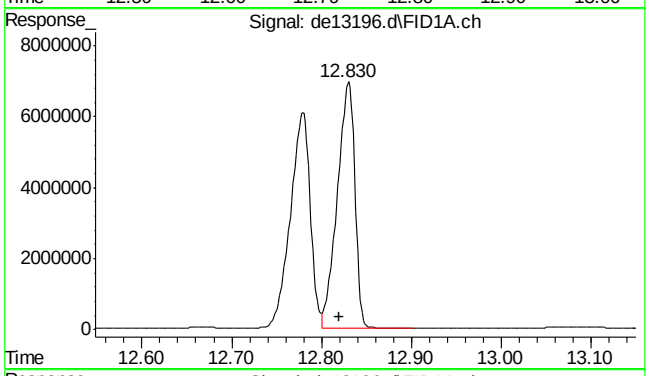
#13 pyrene

R.T.: 11.217 min
Delta R.T.: 0.007 min
Response: 9876553
Conc: 96.69 µg/ml



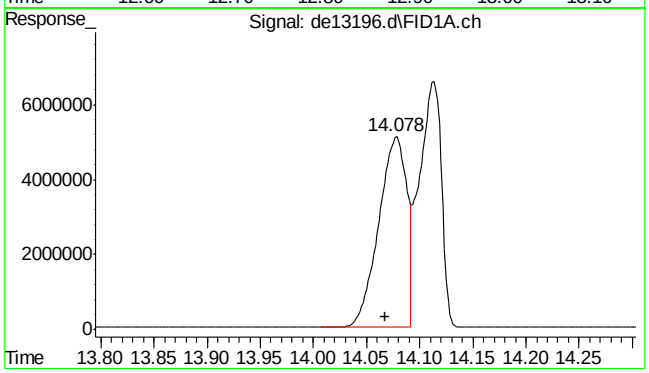
#14 benzo(a)anthracene

R.T.: 12.778 min
Delta R.T.: 0.006 min
Response: 9324427
Conc: 96.10 µg/ml m



#15 chrysene

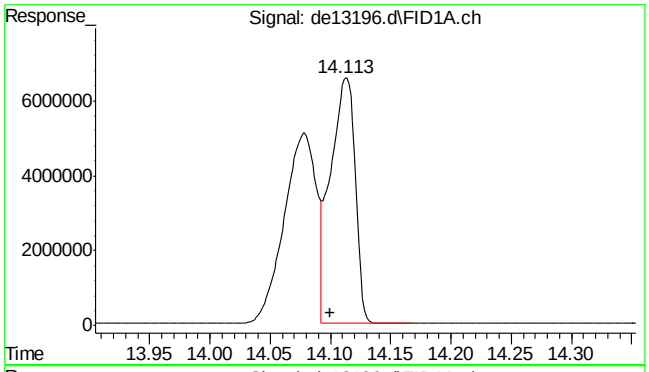
R.T.: 12.830 min
Delta R.T.: 0.010 min
Response: 9386529
Conc: 96.03 µg/ml m



#16 benzo(B)fluoranthene

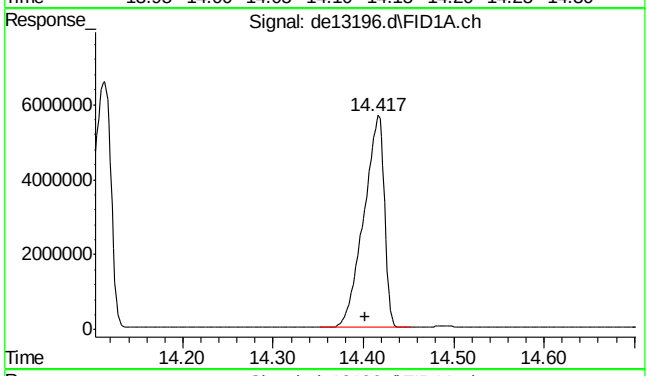
R.T.: 14.078 min
Delta R.T.: 0.010 min
Response: 9460698
Conc: 94.64 µg/ml

SGS ACCUTEST MC45538



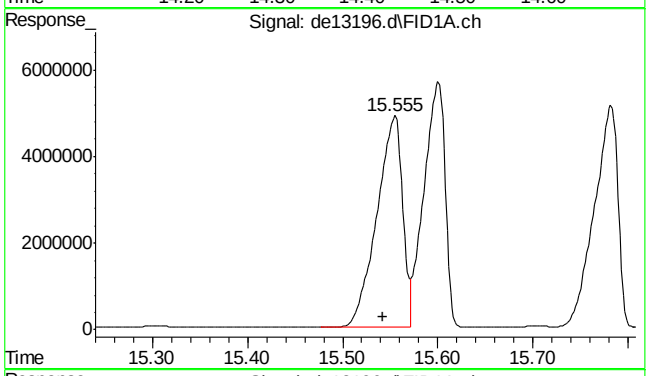
#17 benzo(k)fluoranthene

R.T.: 14.113 min
Delta R.T.: 0.013 min
Response: 9345183
Conc: 97.56 µg/ml



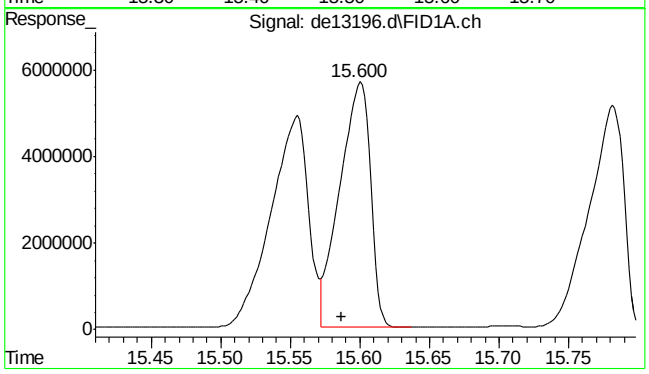
#18 benzo(a)pyrene

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

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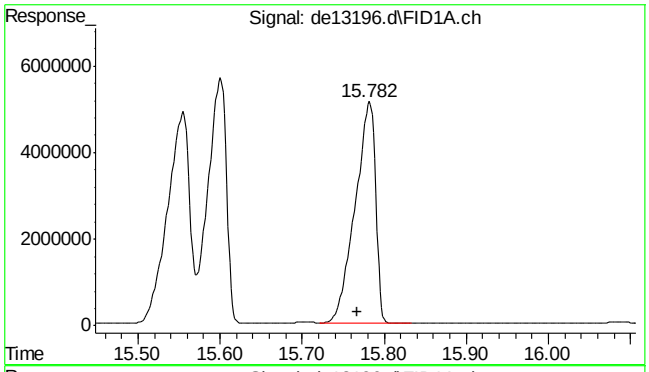
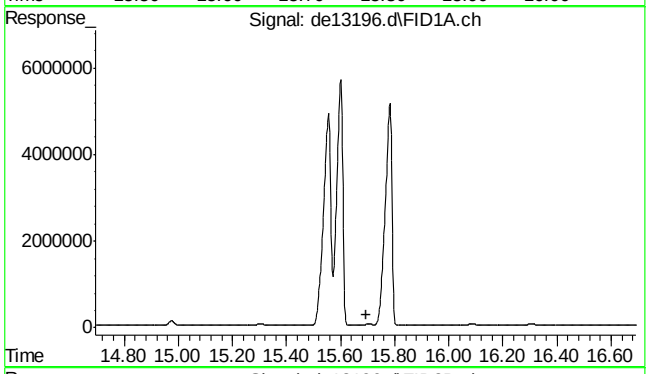


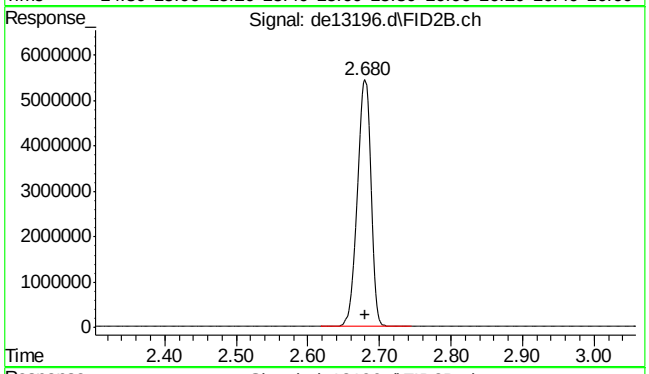
#21 benzo(ghi)perylene

R.T.: 15.782 min
Delta R.T.: 0.015 min
Response: 8869696
Conc: 95.14 µg/ml



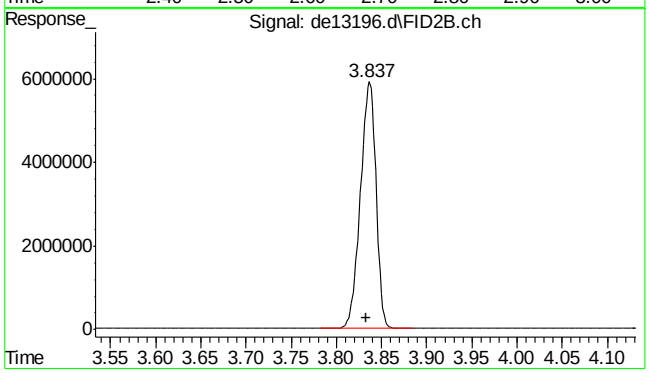
#22 bht

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



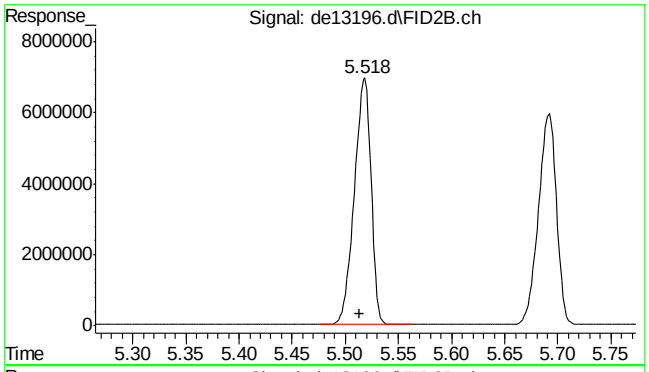
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 7121293
Conc: 92.47 µg/ml

9.5.6

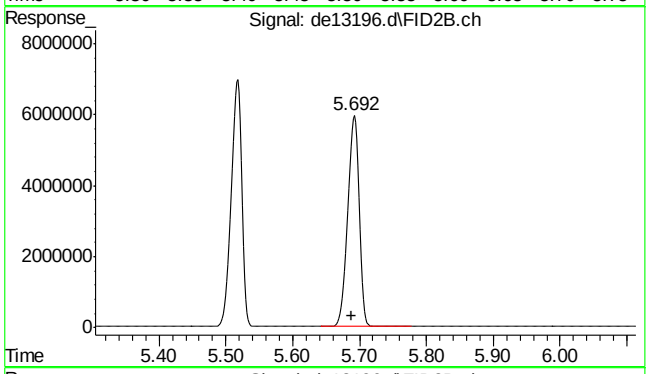
9

SGS ACCUTEST MC45538



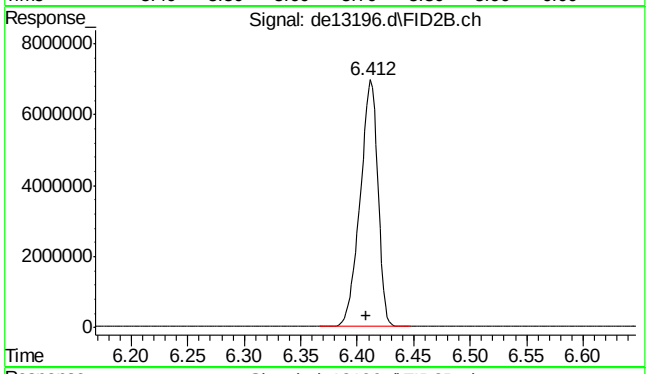
#27 naphthalene #2

R.T.: 5.518 min
Delta R.T.: 0.005 min
Response: 7593446
Conc: 95.04 µg/ml



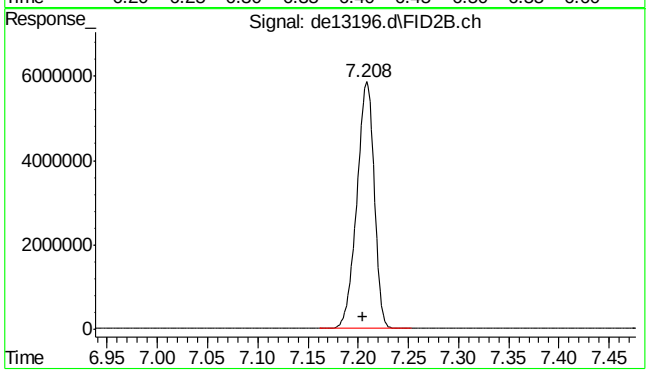
#28 c-12

R.T.: 5.692 min
Delta R.T.: 0.004 min
Response: 7047399
Conc: 92.10 µg/ml



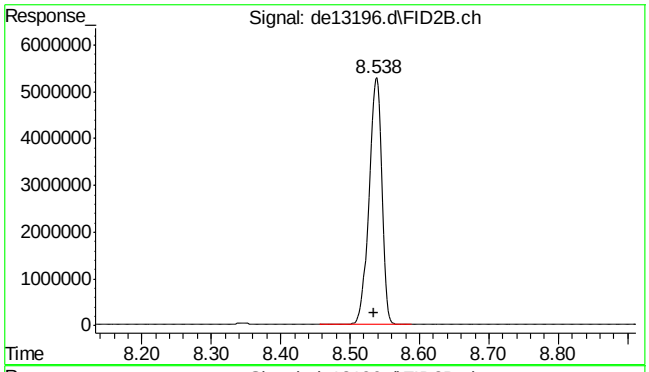
#29 2-methylnaphthalene #2

R.T.: 6.412 min
Delta R.T.: 0.004 min
Response: 7564728
Conc: 93.06 µg/ml



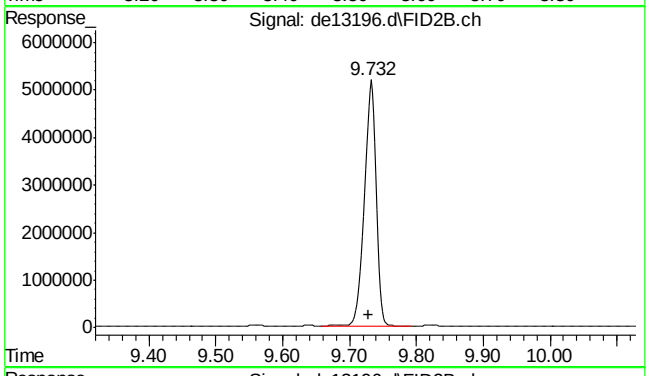
#30 c-14

R.T.: 7.208 min
Delta R.T.: 0.003 min
Response: 6951061
Conc: 91.00 µg/ml



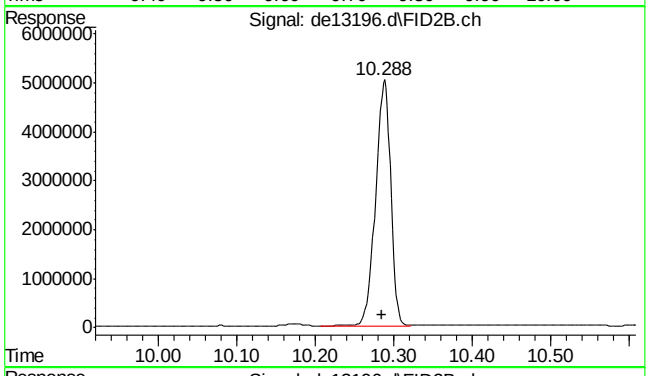
#31 c-16

R.T.: 8.538 min
Delta R.T.: 0.003 min
Response: 6811631
Conc: 89.87 µg/ml



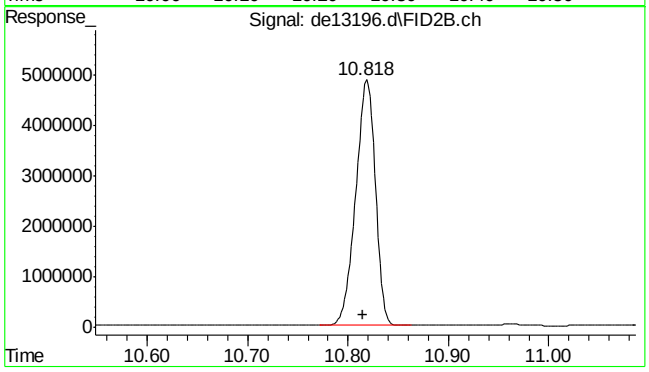
#32 c-18

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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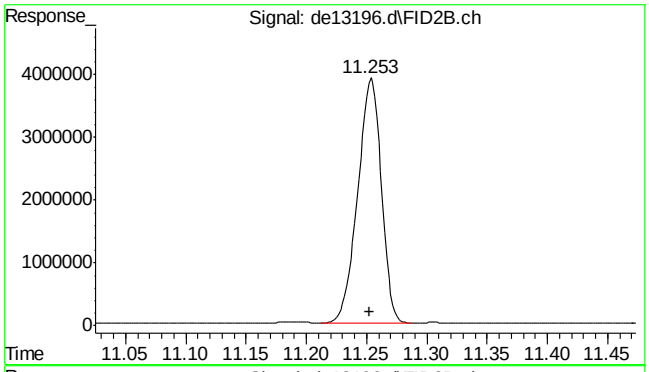
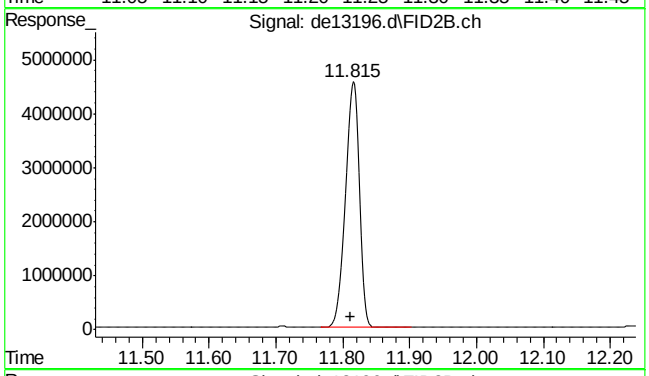


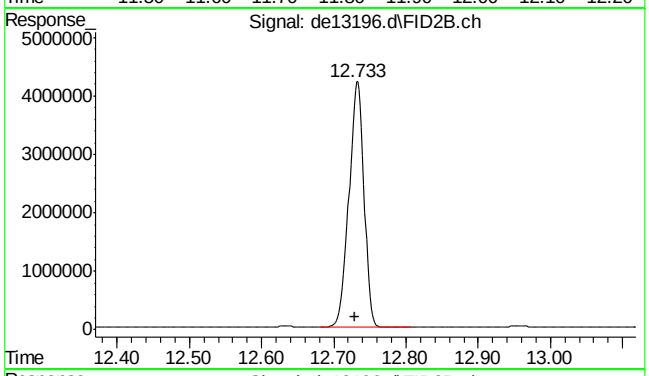
#35 1-chlorooctadecane

R.T.: 11.253 min
Delta R.T.: 0.001 min
Response: 5337791
Conc: 94.55 µg/ml



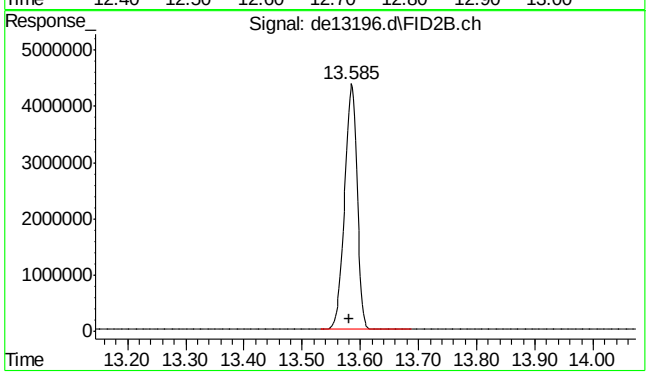
#36 c-22

R.T.: 11.815 min
Delta R.T.: 0.003 min
Response: 6550653
Conc: 92.52 µg/ml



#37 c-24

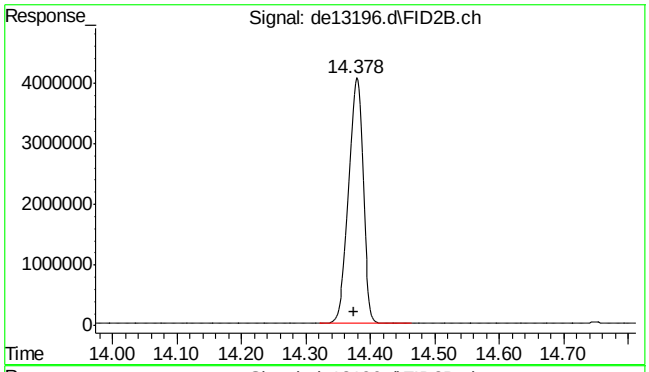
R.T.: 12.733 min
Delta R.T.: 0.003 min
Response: 6102937
Conc: 91.14 µg/ml



#38 c-26

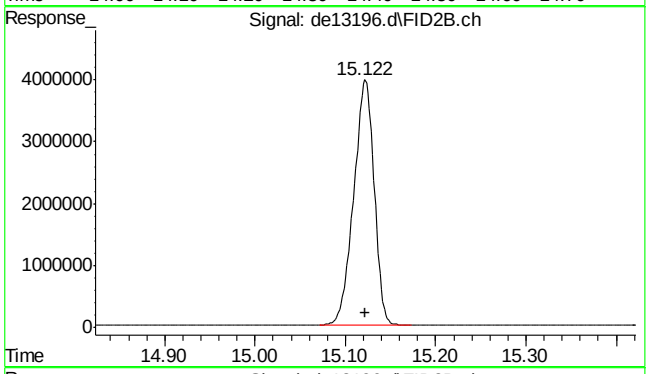
R.T.: 13.585 min
Delta R.T.: 0.003 min
Response: 6486501
Conc: 92.53 µg/ml

SGS ACCUTEST MC45538



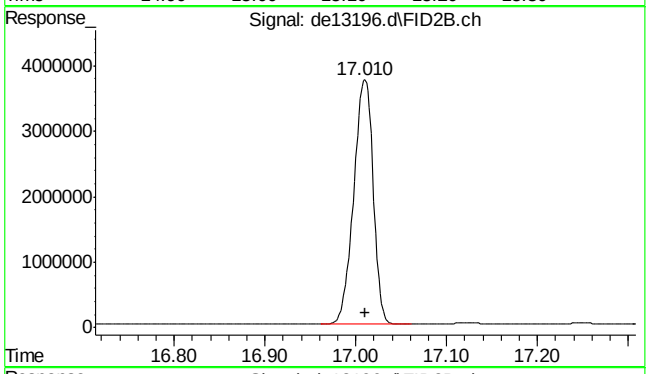
#39 c-28

R.T.: 14.378 min
Delta R.T.: 0.003 min
Response: 6270223
Conc: 92.45 µg/ml



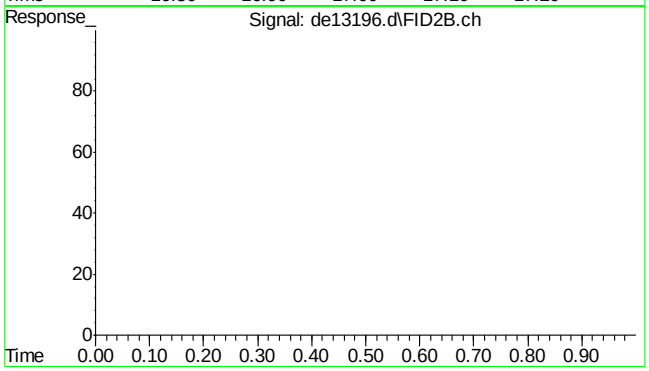
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 6235140
Conc: 90.67 µg/ml



#41 c-36

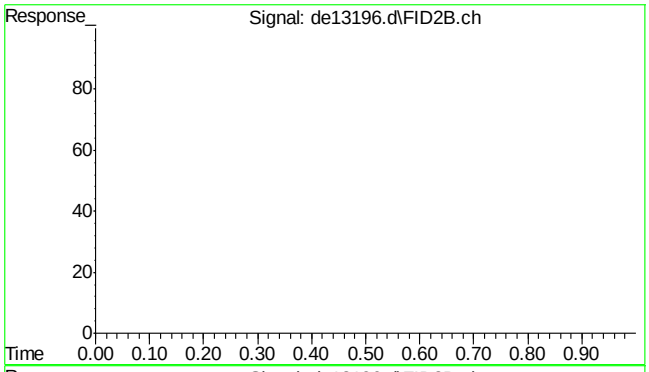
R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 5572797
Conc: 91.21 µg/ml m



#42 bht

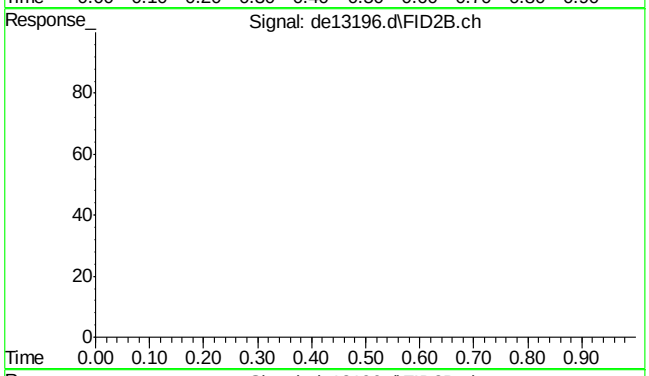
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



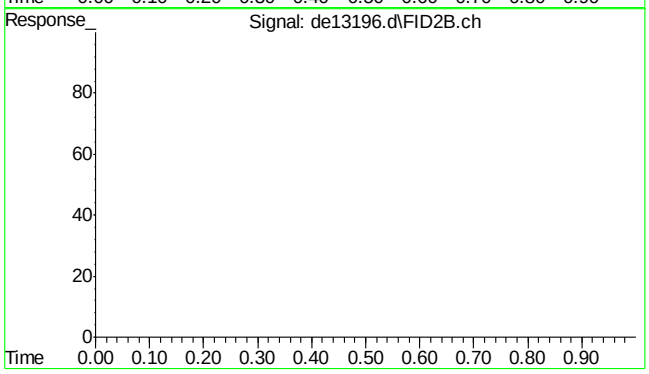
#43 bht

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

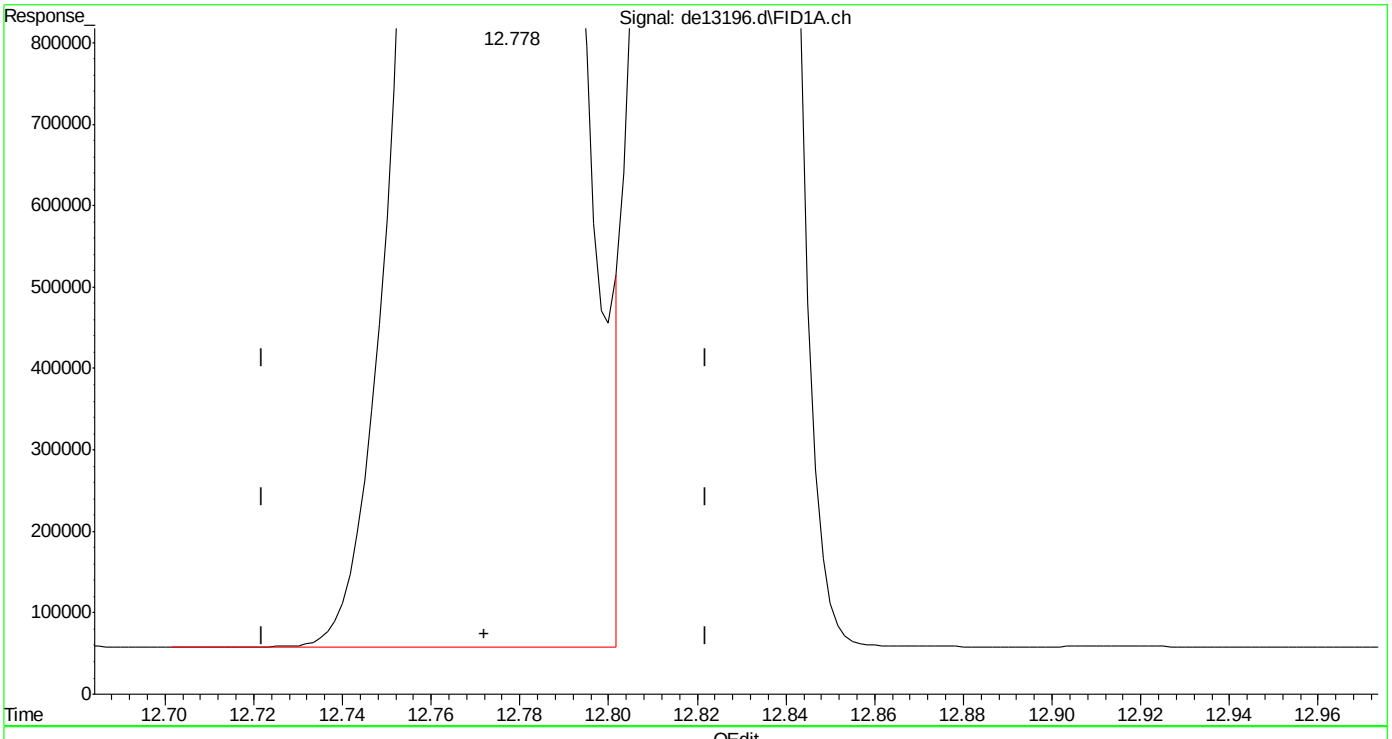
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

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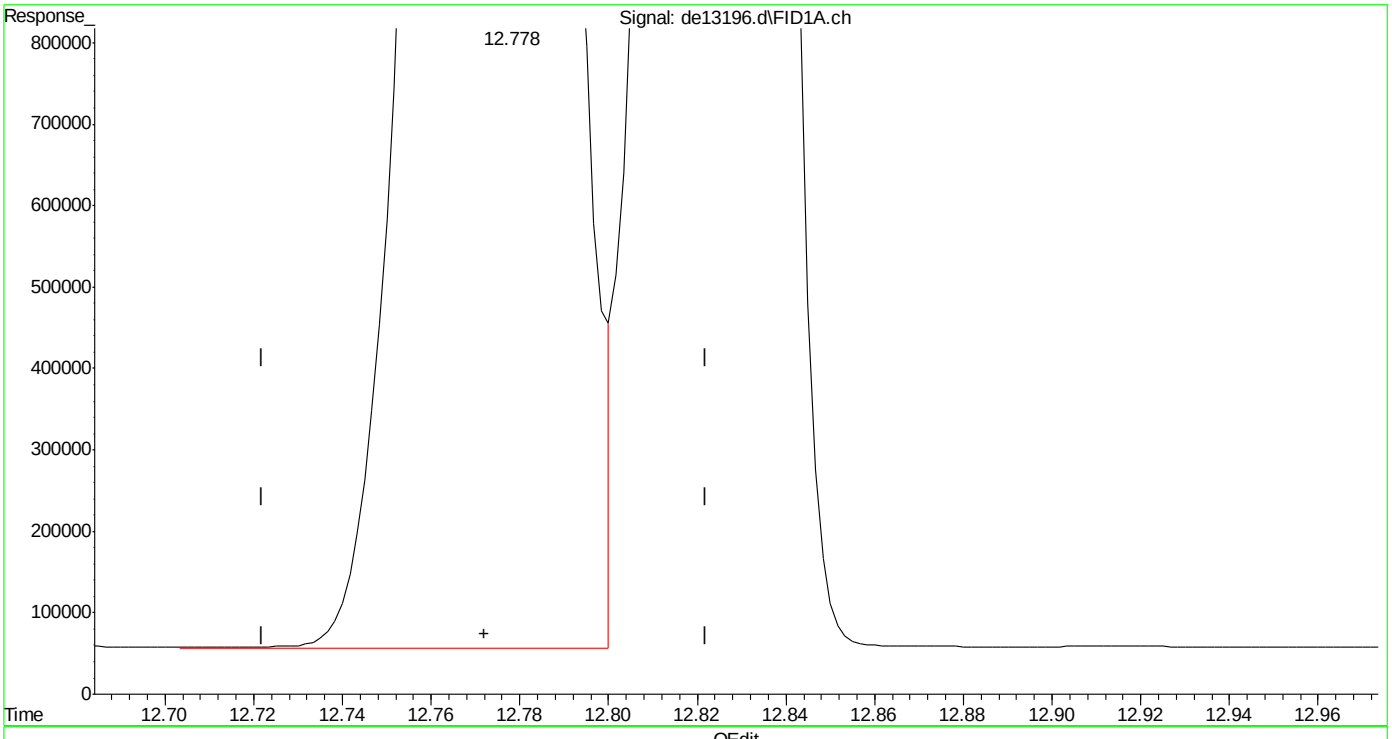
Quantitation Report (Qedit)

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 :



(14) benzo(a)anthracene
12.778min 96.095 µg/ml m
response 9324427

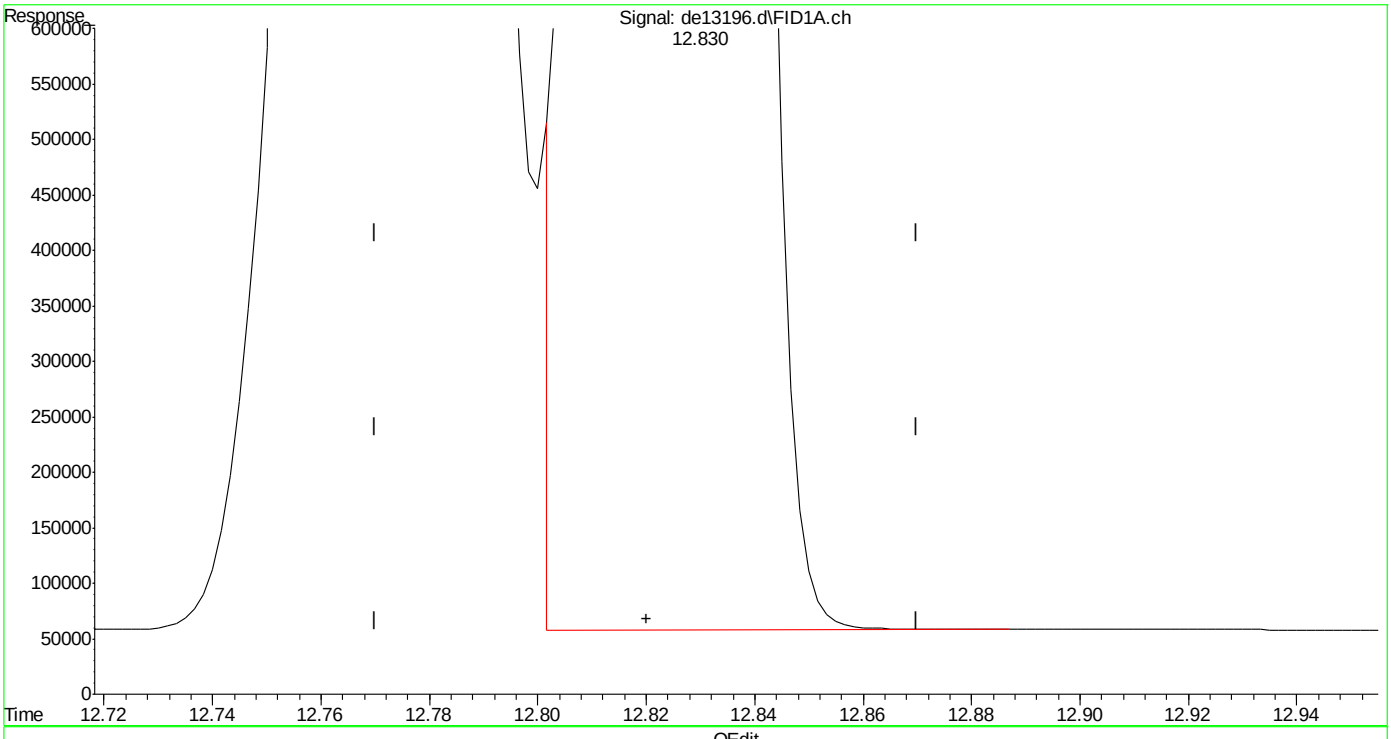
(+) = Expected Retention Time

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 95.489 µg/ml
response 9333760

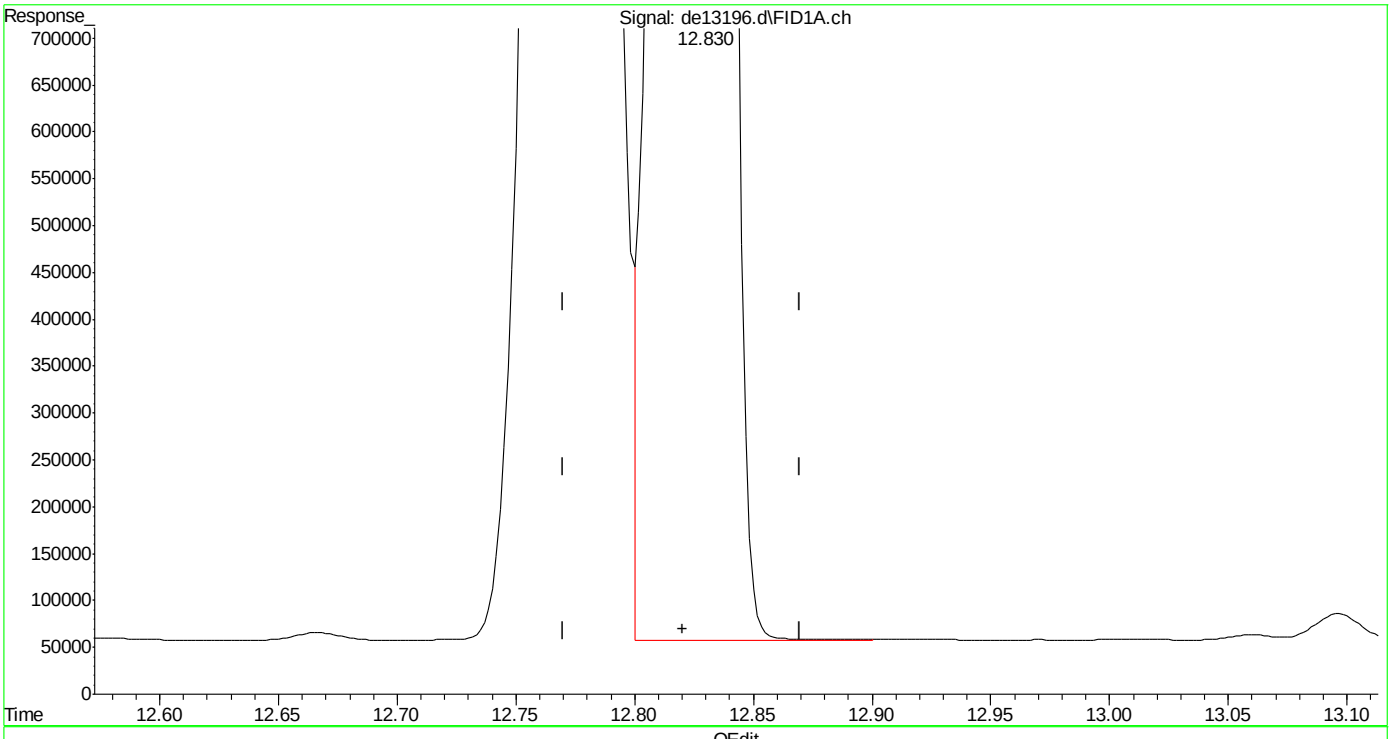
(+) = Expected Retention Time

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

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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

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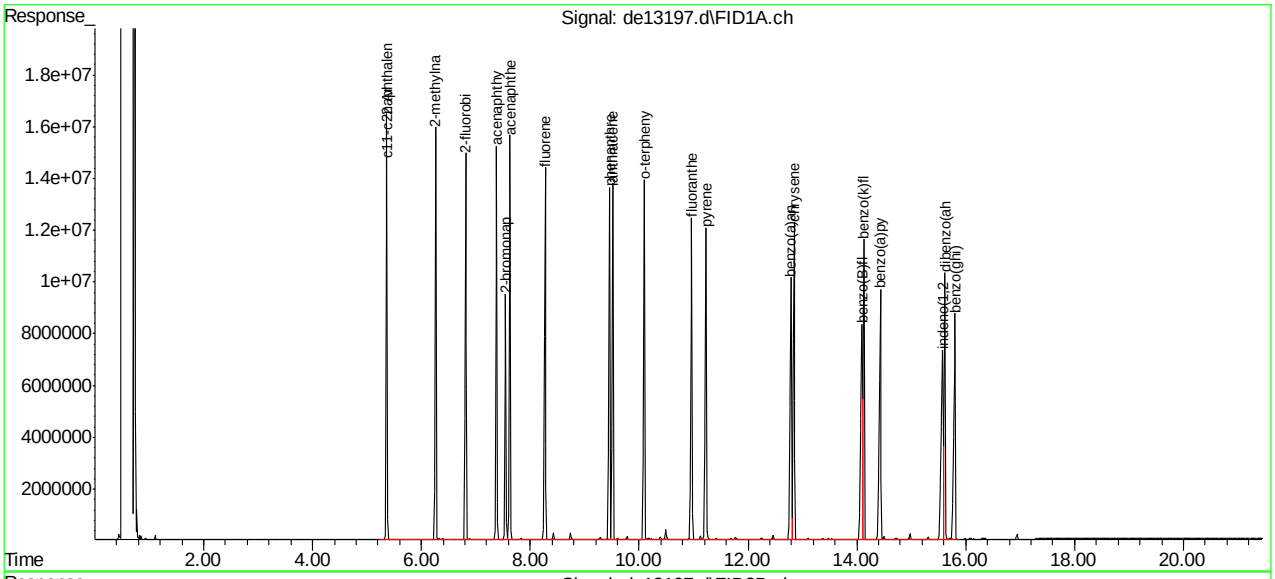
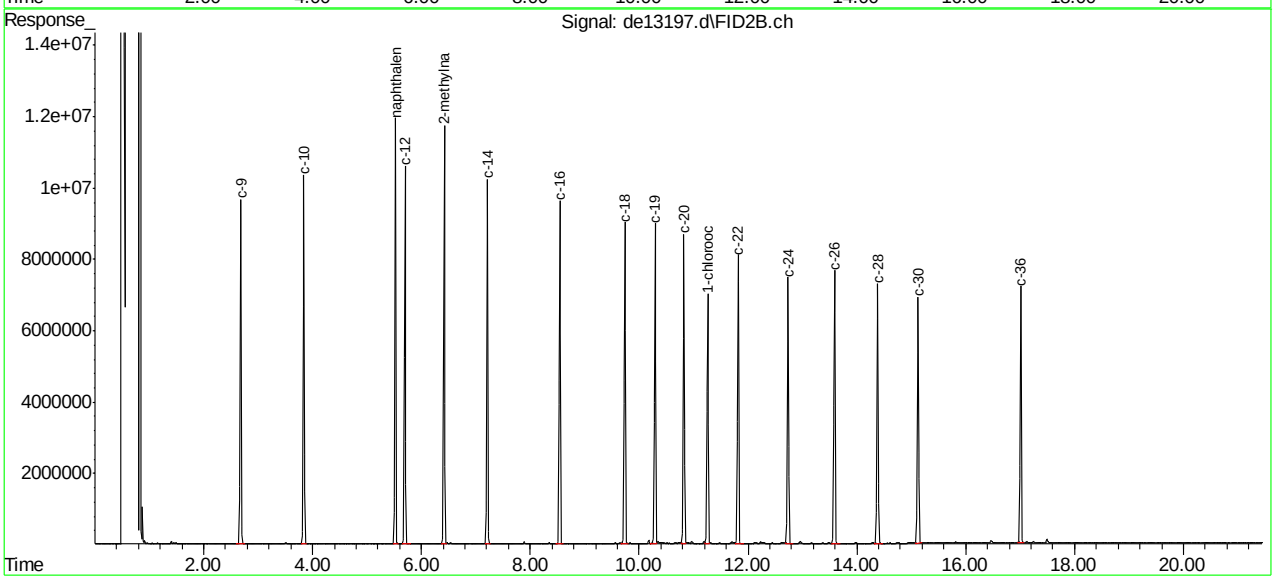
Quantitation Report (QT Reviewed)

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

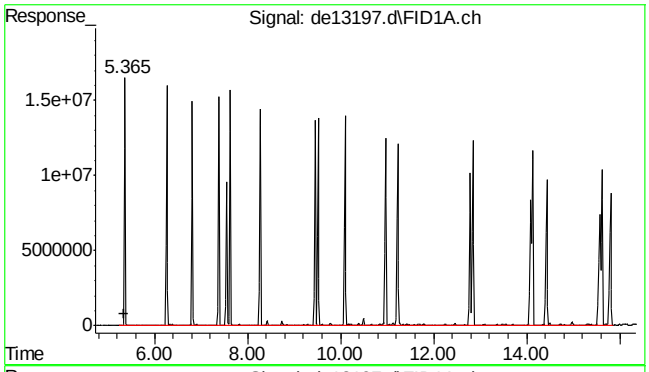
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



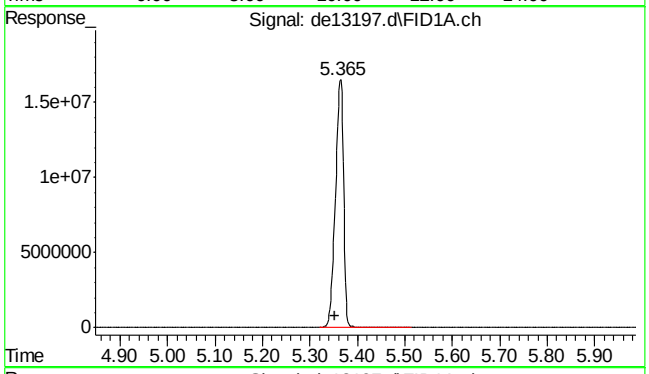


SGS ACCUTEST MC45538



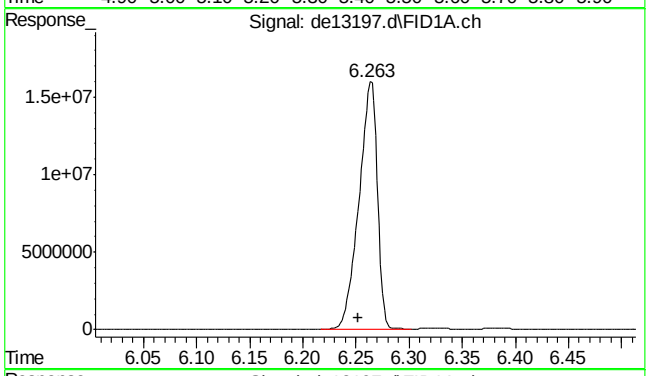
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 316974952
Conc: 191.66 µg/ml m



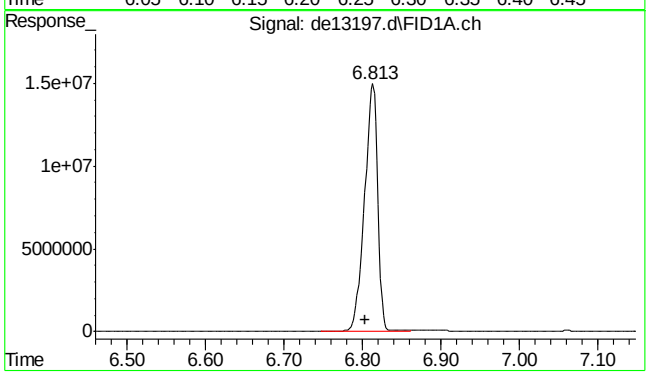
#2 naphthalene

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

9.5.7

9

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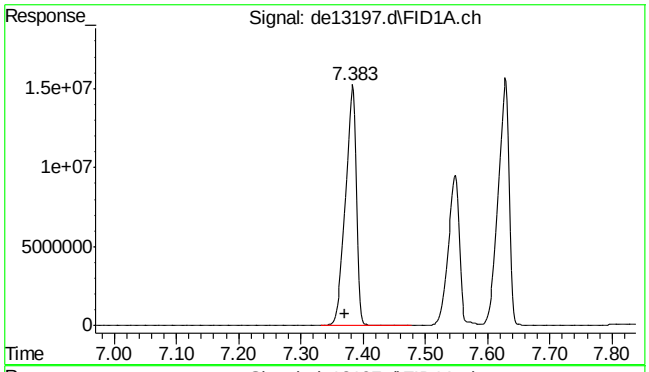
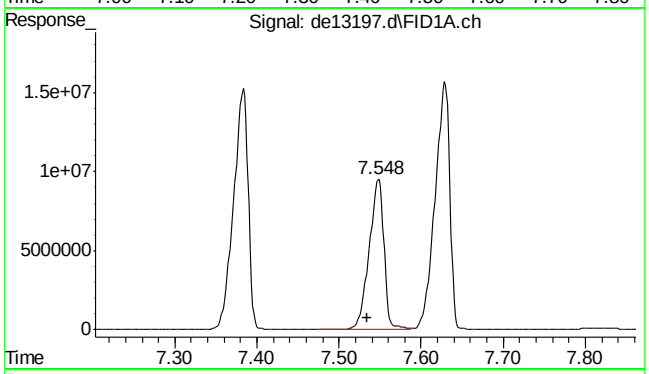


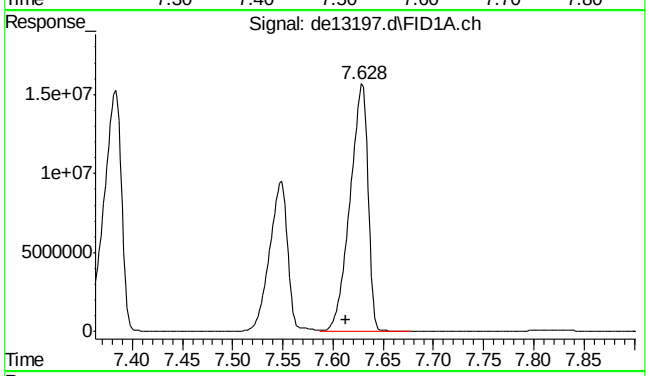
#5 acenaphthylene

R.T.: 7.383 min
Delta R.T.: 0.013 min
Response: 18686177
Conc: 184.33 µg/ml



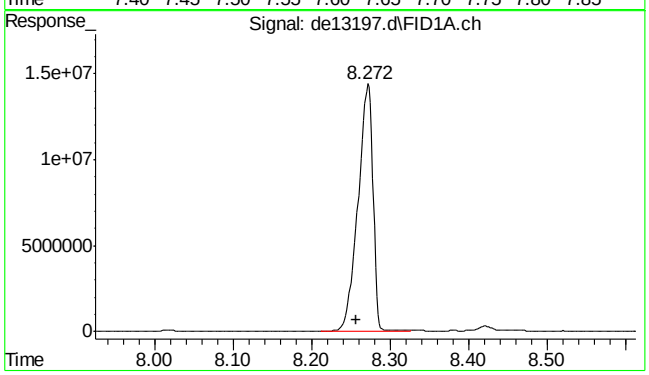
#6 2-bromonaphthalene

R.T.: 7.548 min
Delta R.T.: 0.013 min
Response: 11710947
Conc: 185.46 µg/ml



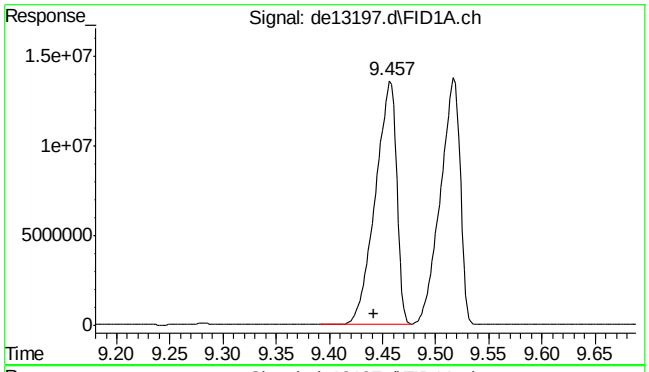
#7 acenaphthene

R.T.: 7.628 min
Delta R.T.: 0.015 min
Response: 19311298
Conc: 185.68 µg/ml



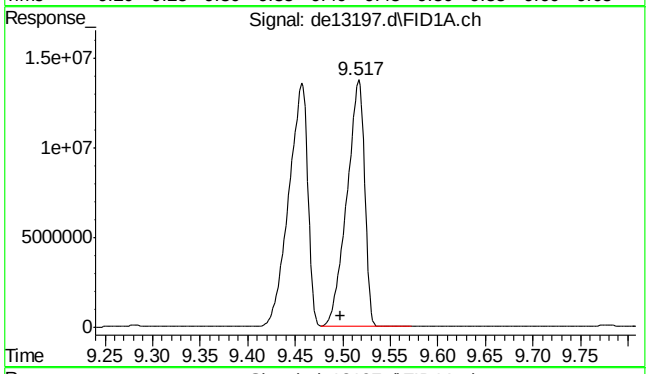
#8 fluorene

R.T.: 8.272 min
Delta R.T.: 0.015 min
Response: 18917157
Conc: 185.00 µg/ml



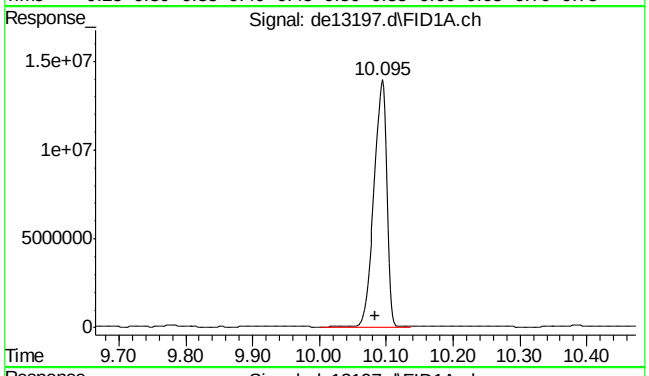
#9 phenanthrene

R.T.: 9.457 min
Delta R.T.: 0.015 min
Response: 18899419
Conc: 184.53 µg/ml



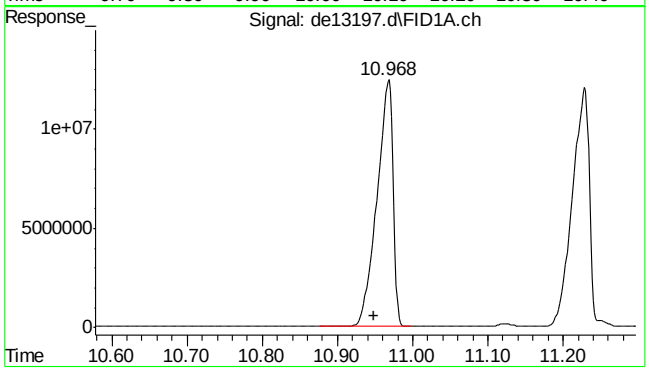
#10 anthracene

R.T.: 9.517 min
Delta R.T.: 0.019 min
Response: 17945874
Conc: 184.82 µg/ml



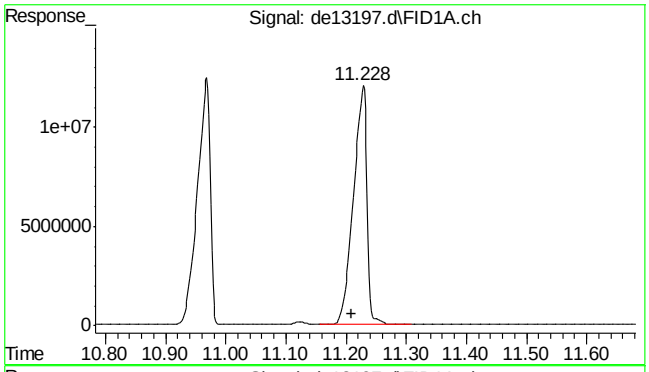
#11 o-terphenyl

R.T.: 10.095 min
Delta R.T.: 0.012 min
Response: 18995194
Conc: 184.43 µg/ml



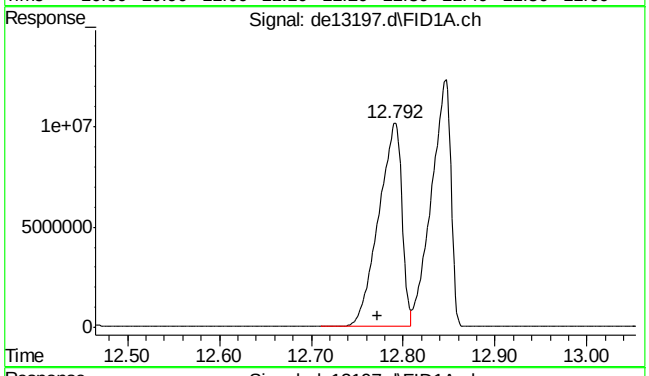
#12 fluoranthene

R.T.: 10.968 min
Delta R.T.: 0.020 min
Response: 18457513
Conc: 183.37 µg/ml



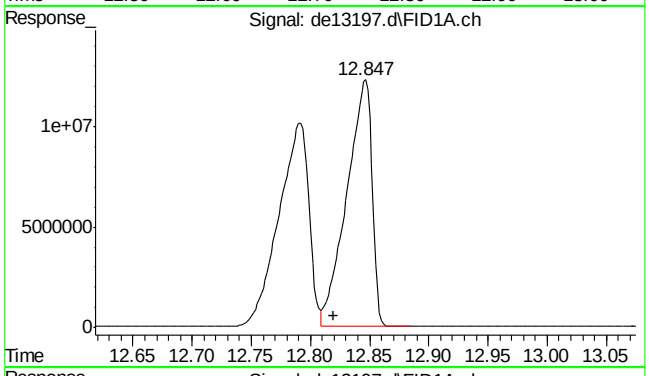
#13 pyrene

R.T.: 11.228 min
Delta R.T.: 0.018 min
Response: 18932497
Conc: 185.31 µg/ml



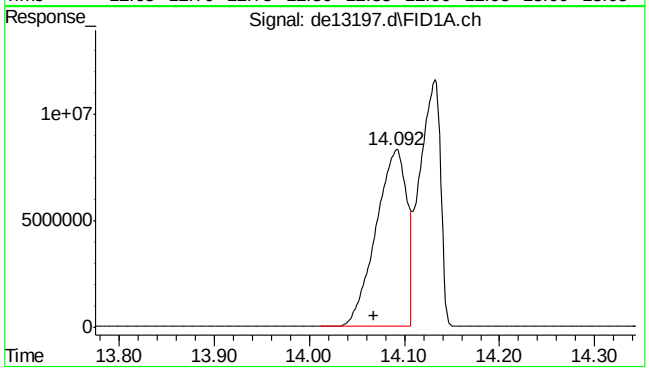
#14 benzo(a)anthracene

R.T.: 12.792 min
Delta R.T.: 0.020 min
Response: 17872955
Conc: 183.62 µg/ml m



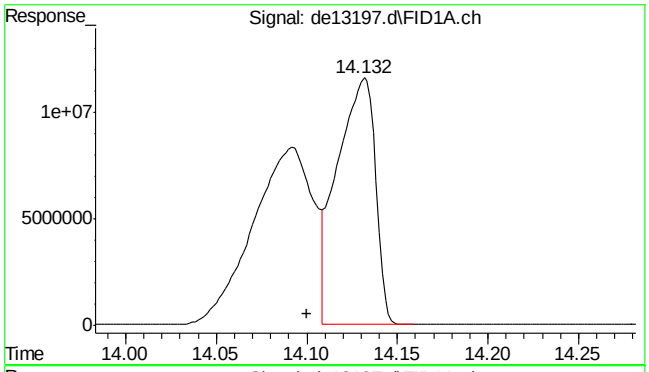
#15 chrysene

R.T.: 12.847 min
Delta R.T.: 0.027 min
Response: 18069681
Conc: 184.43 µg/ml m



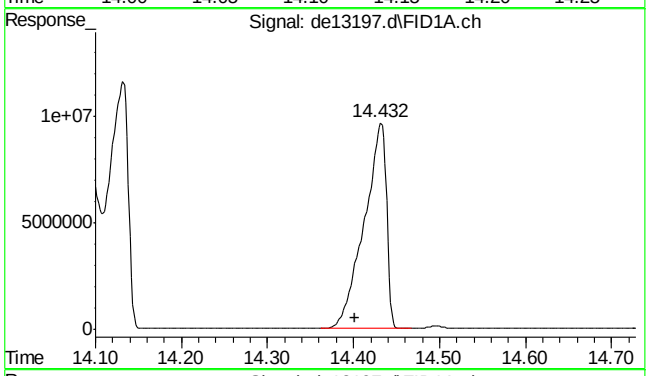
#16 benzo(B)fluoranthene

R.T.: 14.092 min
Delta R.T.: 0.024 min
Response: 18893122
Conc: 189.47 µg/ml



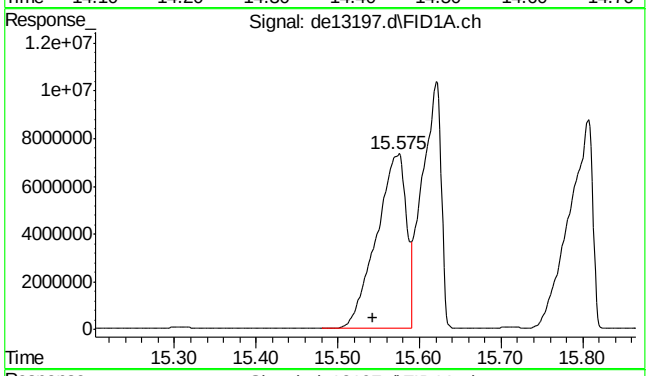
#17 benzo(k)fluoranthene

R.T.: 14.132 min
Delta R.T.: 0.032 min
Response: 16859064
Conc: 175.36 µg/ml m



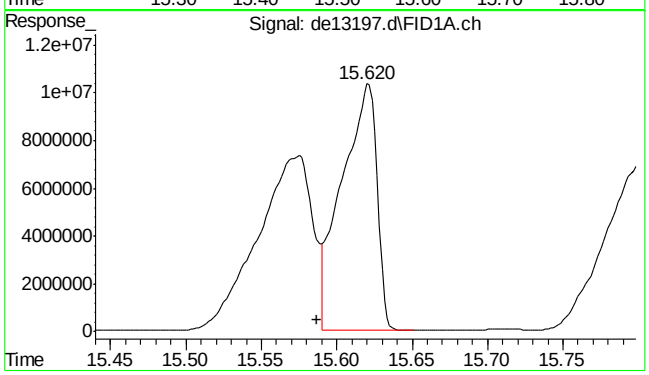
#18 benzo(a)pyrene

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



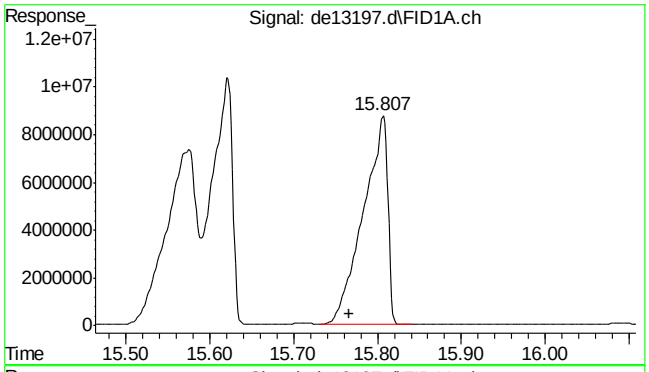
#20 dibenzo(ah)anthracene

R.T.: 15.620 min
Delta R.T.: 0.033 min
Response: 16610466
Conc: 180.15 µg/ml m

9.5.7

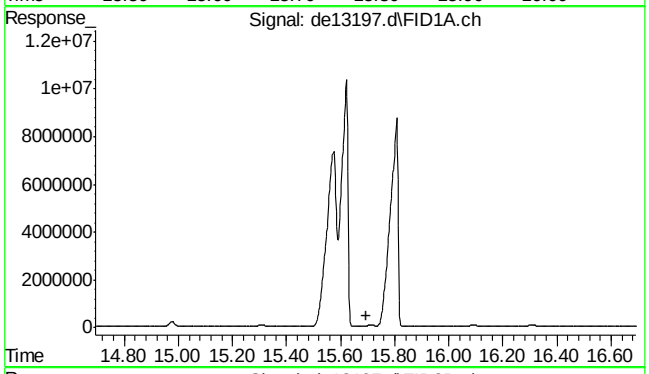
9

SGS ACCUTEST MC45538



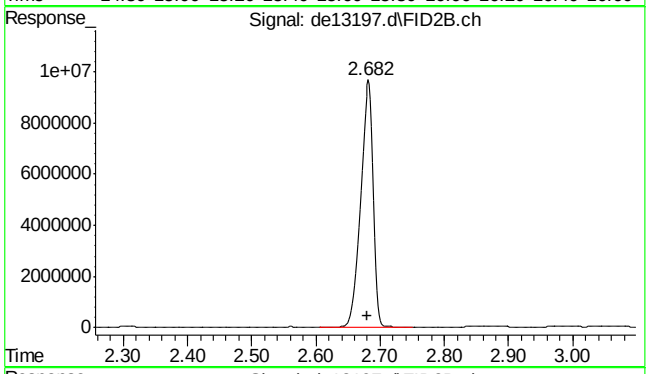
#21 benzo(ghi)perylene

R.T.: 15.807 min
Delta R.T.: 0.040 min
Response: 17523714
Conc: 188.13 µg/ml m



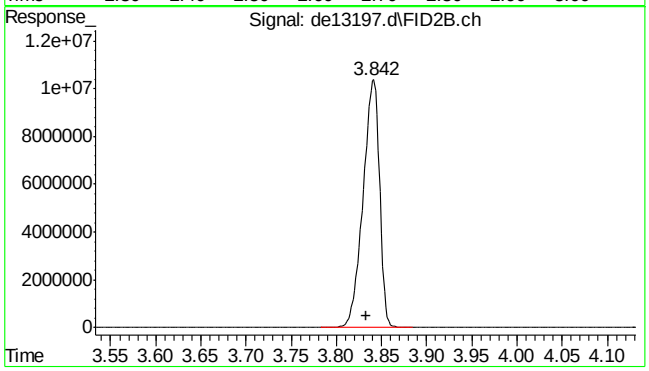
#22 bht

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



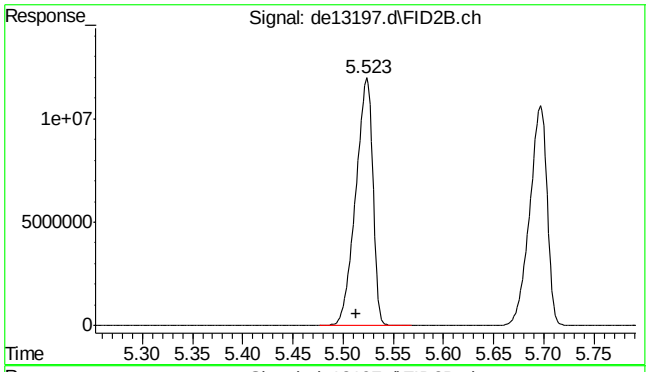
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 13149397
Conc: 172.60 µg/ml

9.5.7

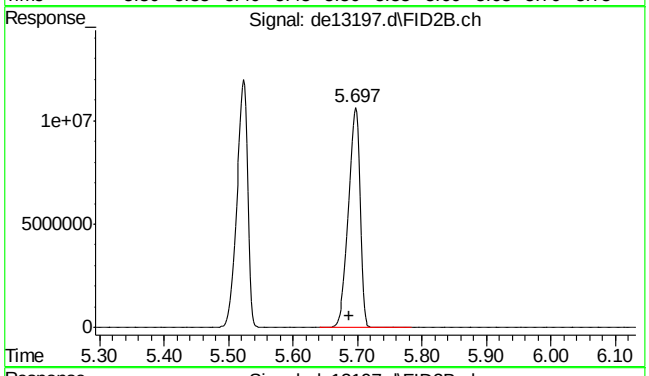
9

SGS ACCUTEST MC45538



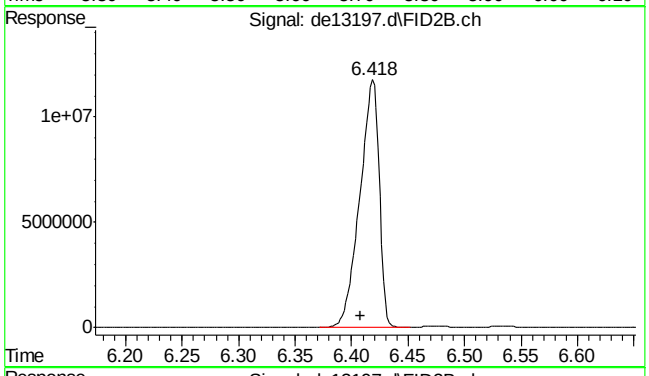
#27 naphthalene #2

R.T.: 5.523 min
Delta R.T.: 0.010 min
Response: 14006239
Conc: 175.25 µg/ml



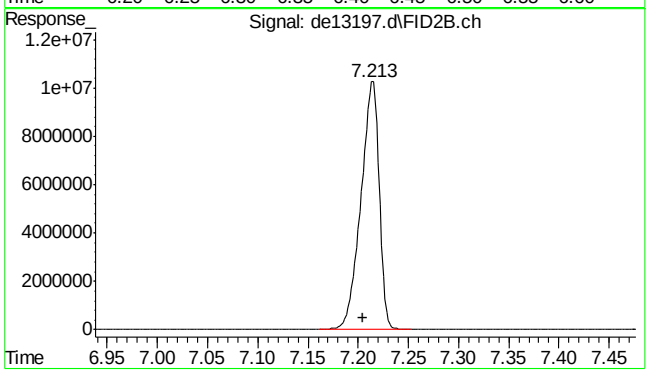
#28 c-12

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



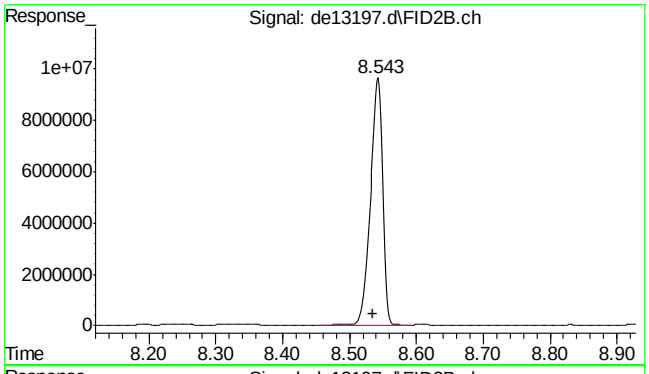
#30 c-14

R.T.: 7.213 min
Delta R.T.: 0.008 min
Response: 12790598
Conc: 169.62 µg/ml

9.5.7

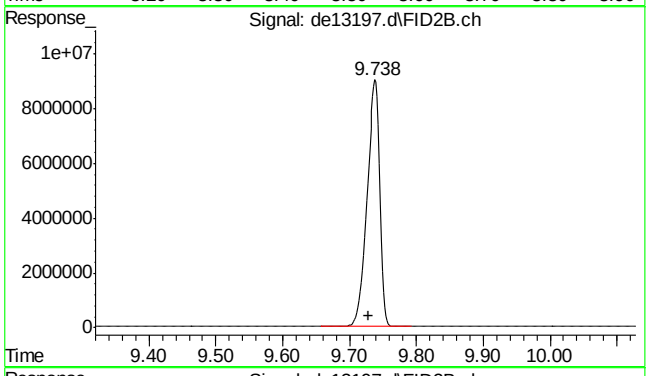
9

SGS ACCUTEST MC45538



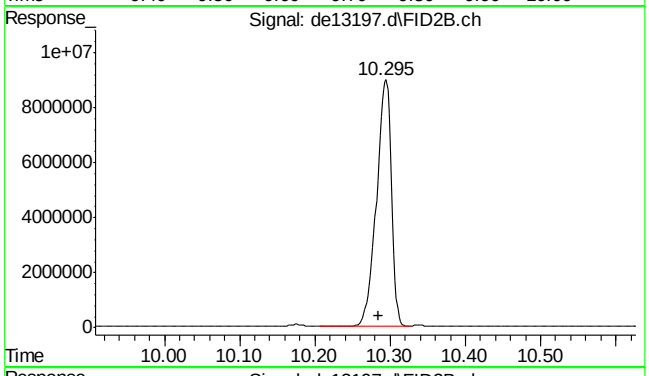
#31 c-16

R.T.: 8.543 min
Delta R.T.: 0.008 min
Response: 12583573
Conc: 168.46 µg/ml



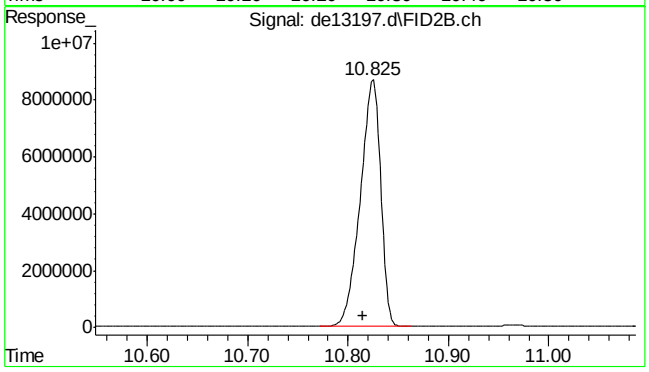
#32 c-18

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



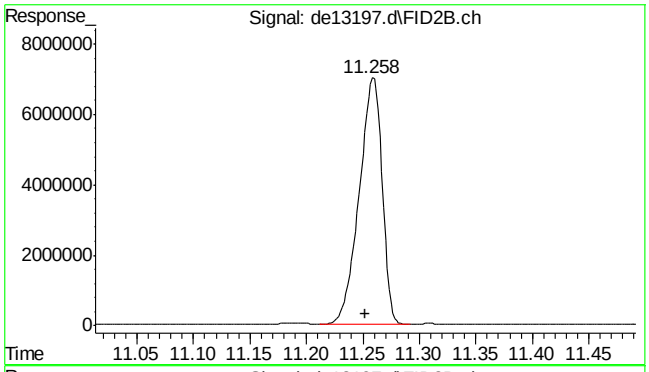
#34 c-20

R.T.: 10.825 min
Delta R.T.: 0.010 min
Response: 12189358
Conc: 171.74 µg/ml

9.5.7

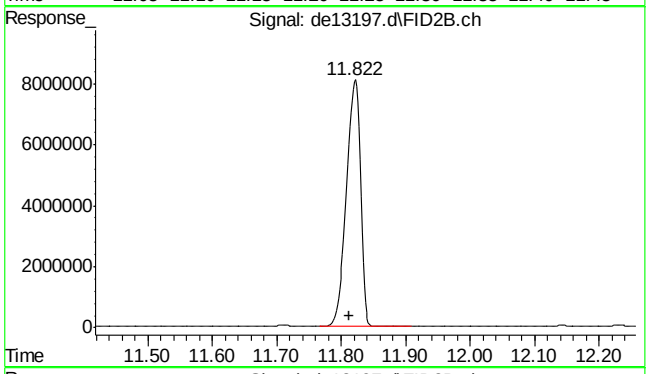
9

SGS ACCUTEST MC45538



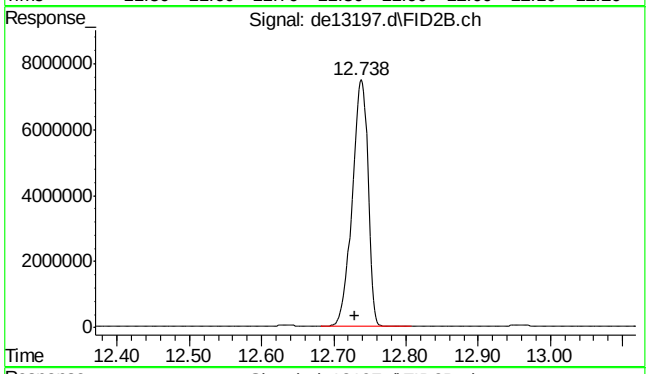
#35 1-chlorooctadecane

R.T.: 11.258 min
Delta R.T.: 0.006 min
Response: 9870838
Conc: 174.49 µg/ml



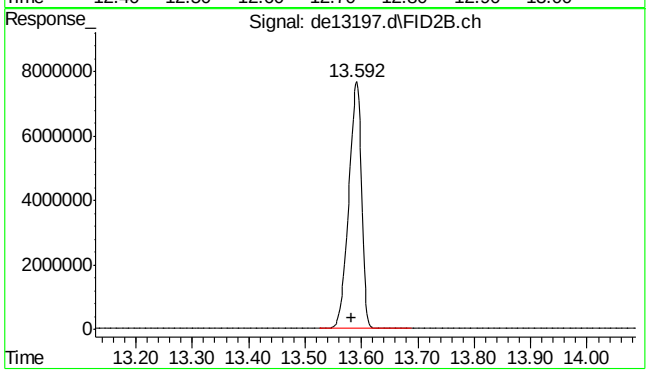
#36 c-22

R.T.: 11.822 min
Delta R.T.: 0.010 min
Response: 12115679
Conc: 172.97 µg/ml



#37 c-24

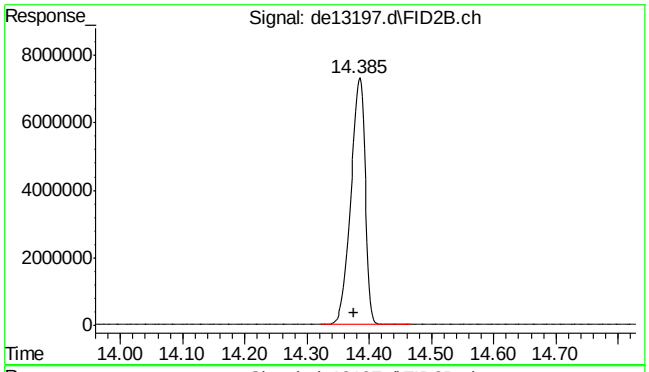
R.T.: 12.738 min
Delta R.T.: 0.008 min
Response: 11324691
Conc: 171.29 µg/ml



#38 c-26

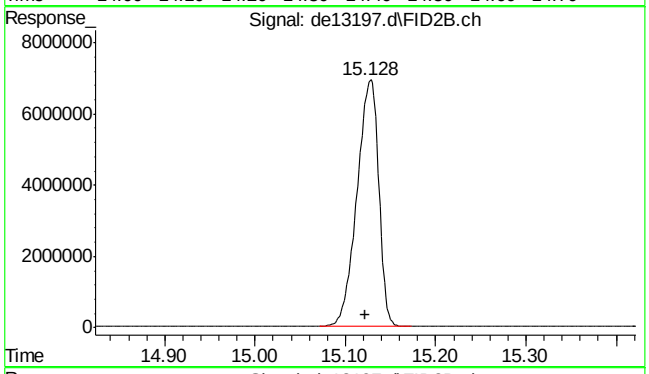
R.T.: 13.592 min
Delta R.T.: 0.010 min
Response: 12045195
Conc: 173.68 µg/ml

SGS ACCUTEST MC45538



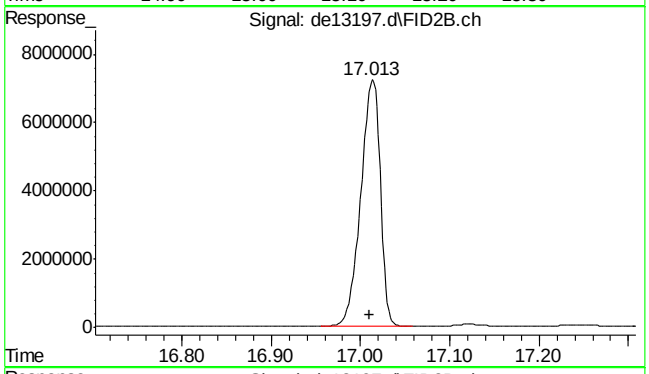
#39 c-28

R.T.: 14.385 min
Delta R.T.: 0.010 min
Response: 11646376
Conc: 173.58 µg/ml



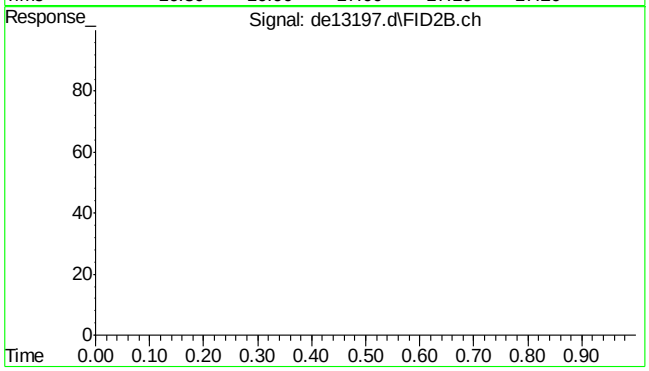
#40 c-30

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



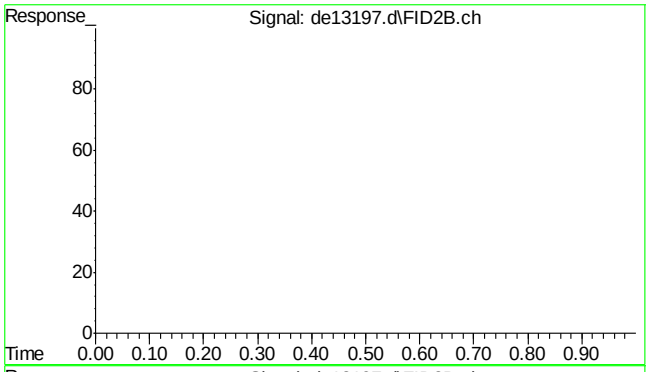
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.7

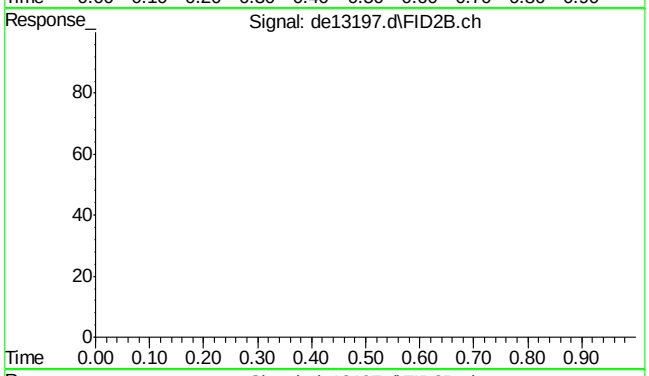
9

SGS ACCUTEST MC45538



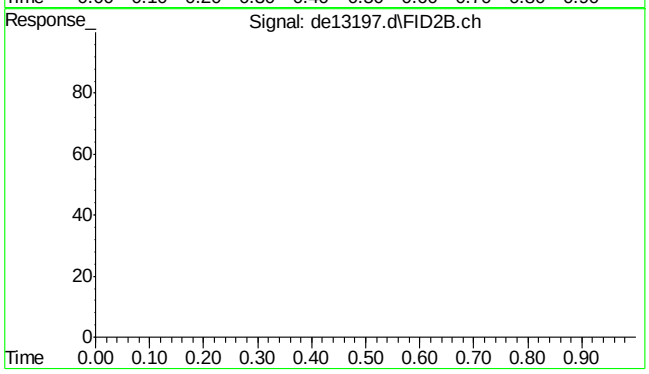
#43 bht

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

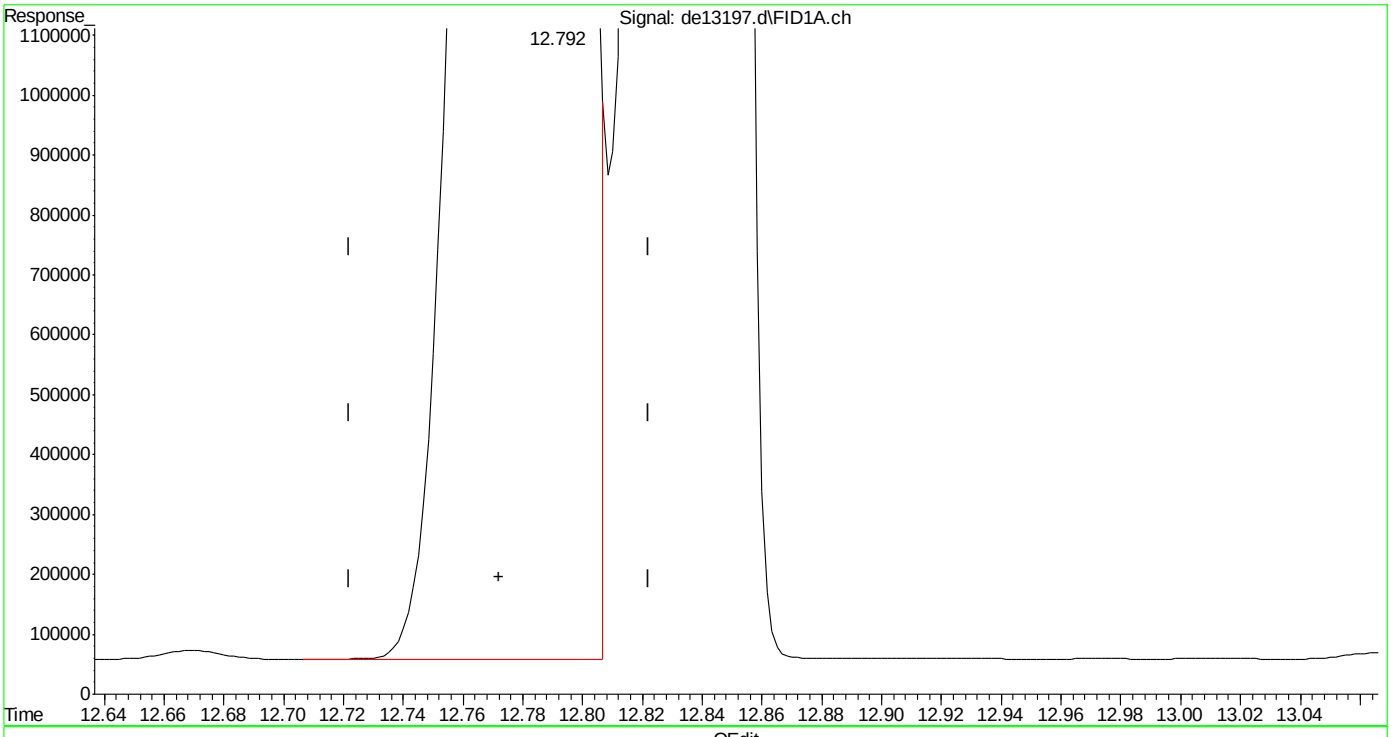
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

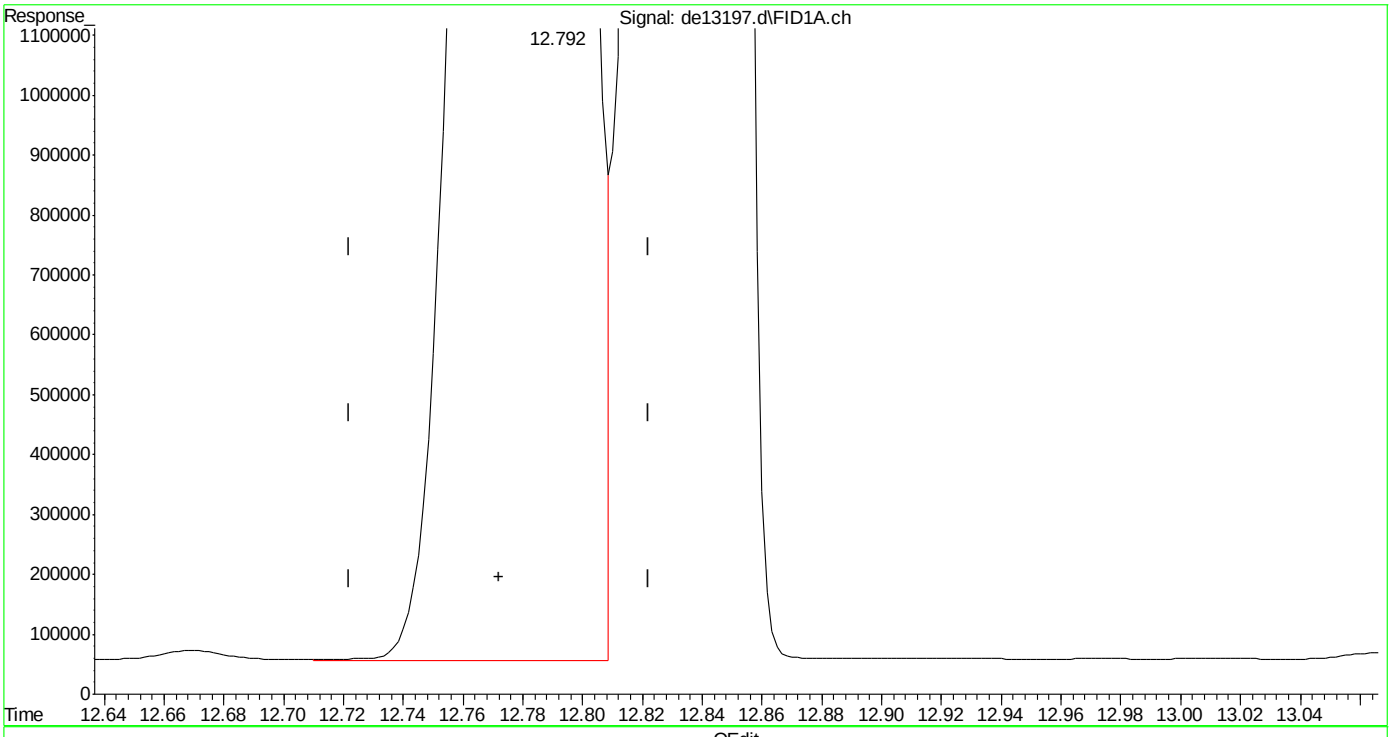
SGS ACCUTEST MC45538

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

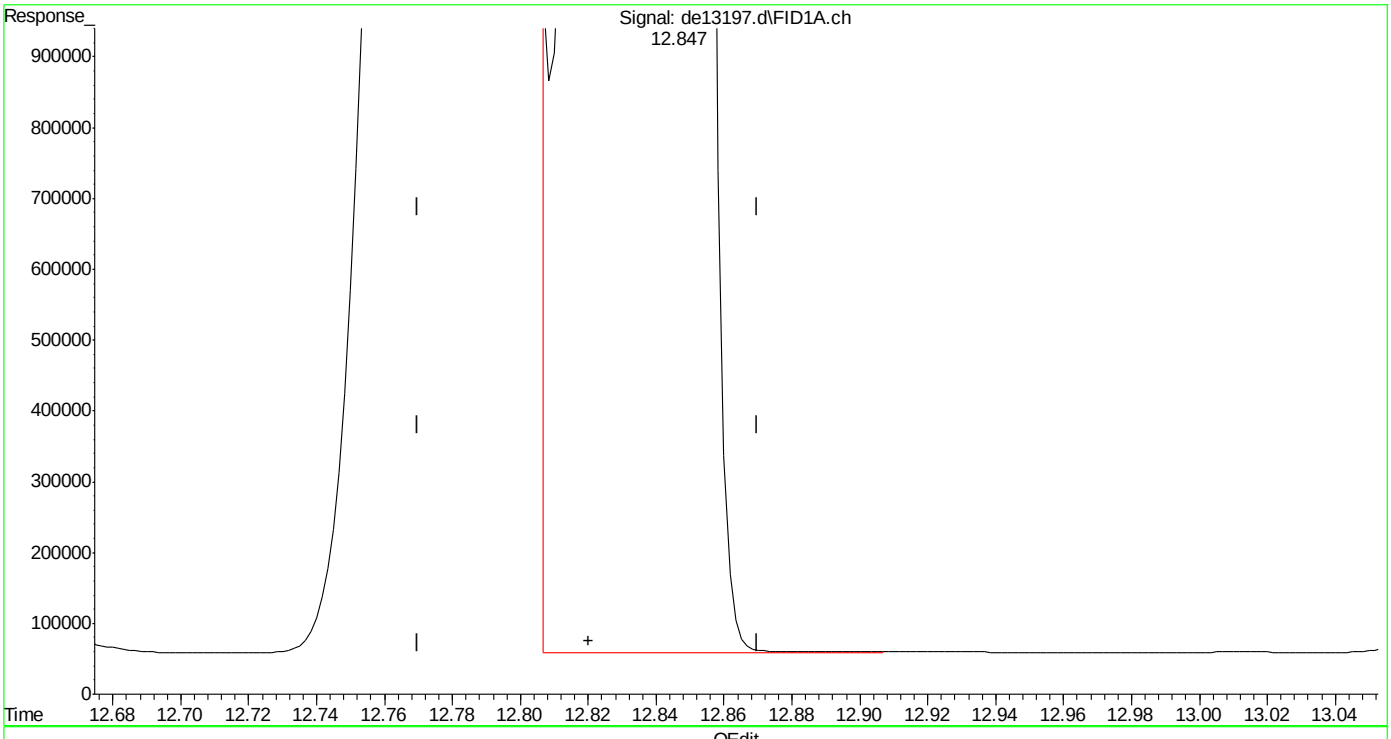
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:33 2016

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

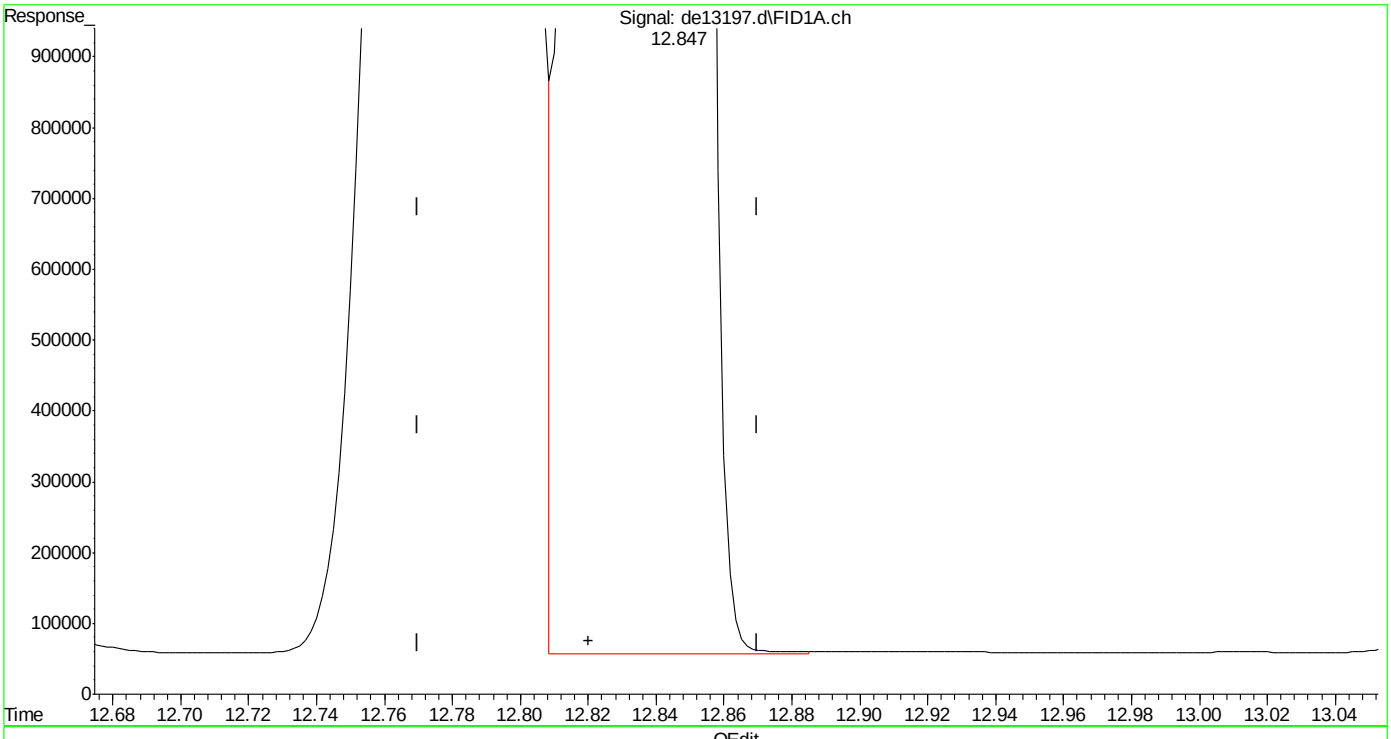
(+) = Expected Retention Time

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

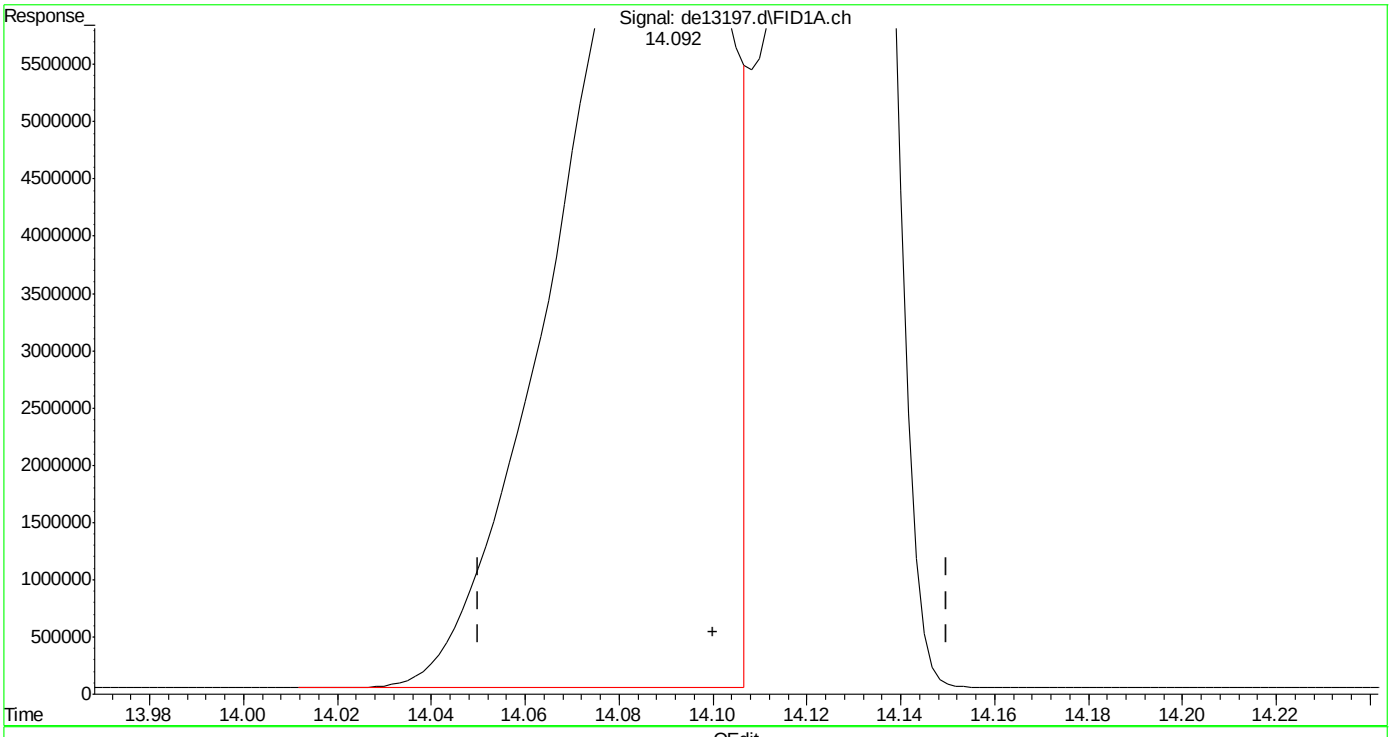
(+) = Expected Retention Time

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

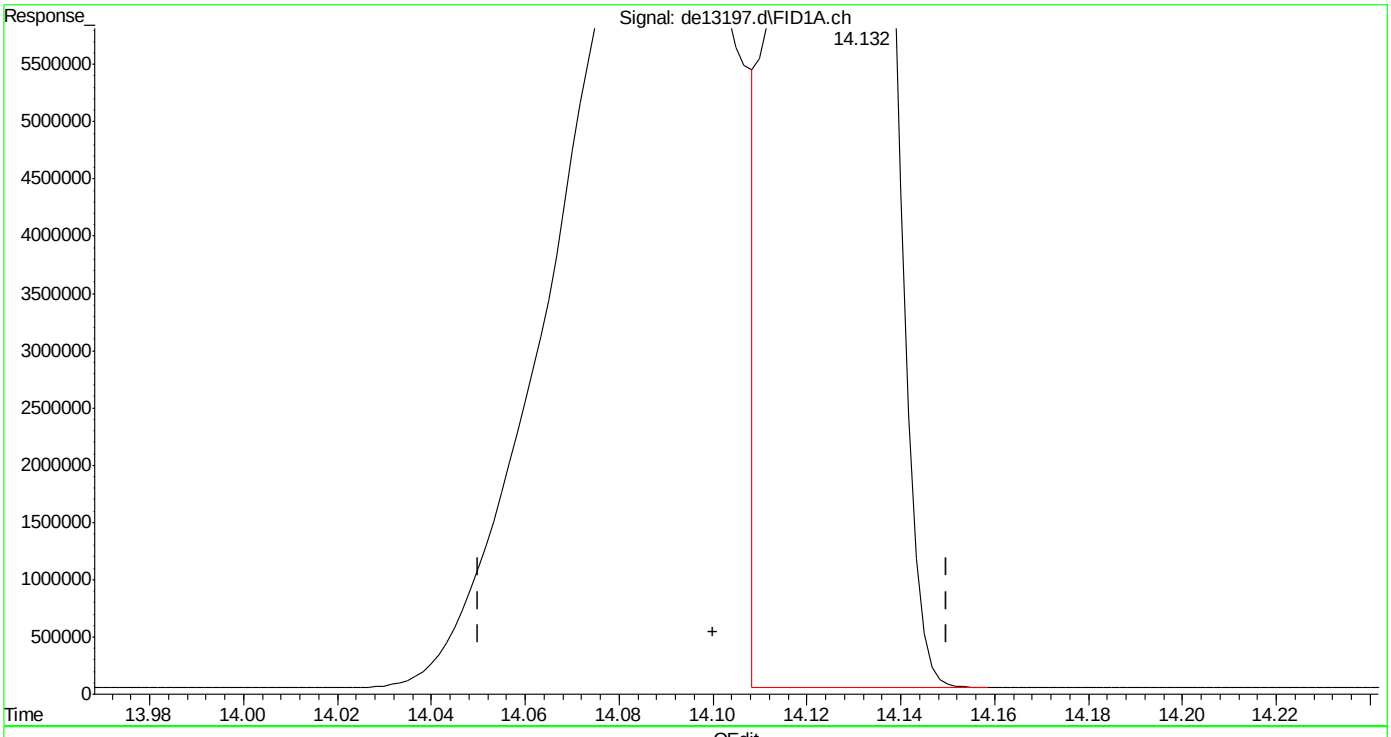
EPH160204M.M Fri Feb 05 11:04:36 2016 Page: 1

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

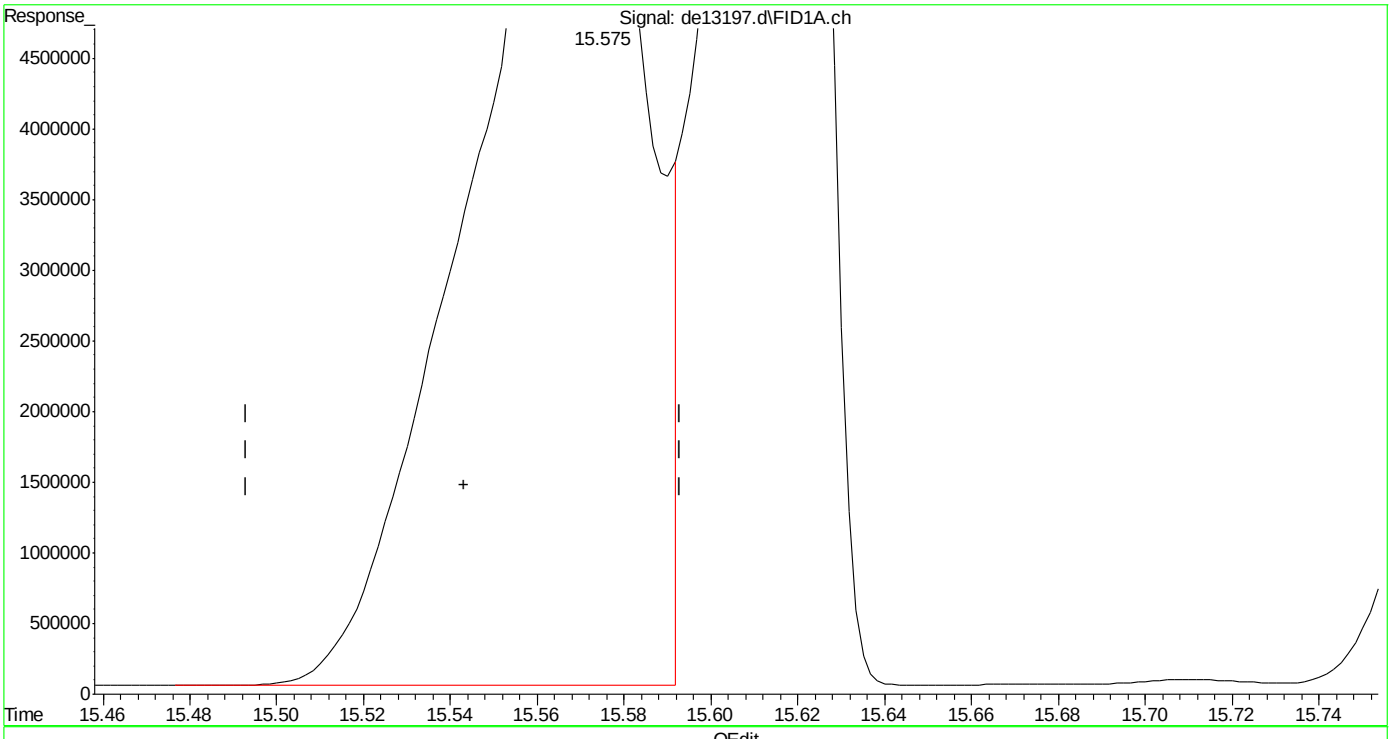
SGS ACCUTEST MC45538

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

EPH160204M.M Fri Feb 05 11:04:51 2016

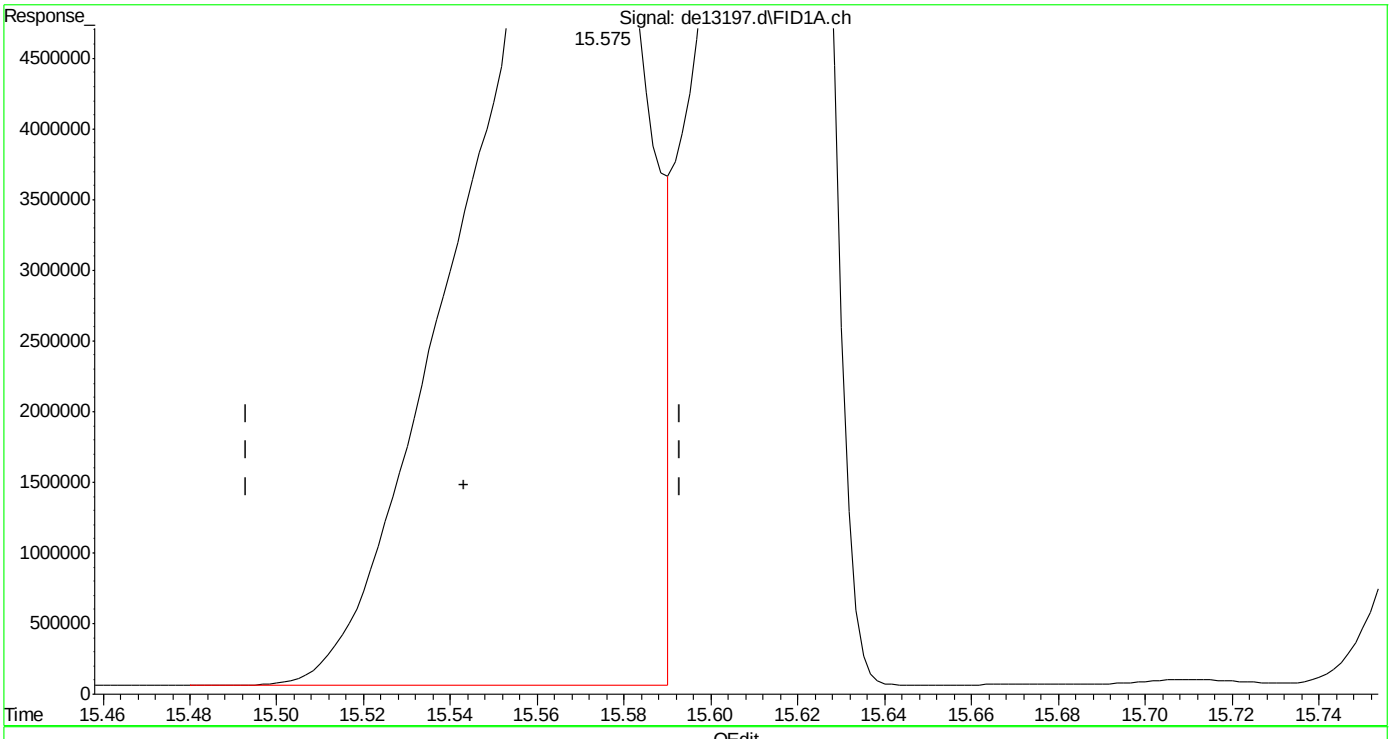
SGS ACCUTEST MC45538

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

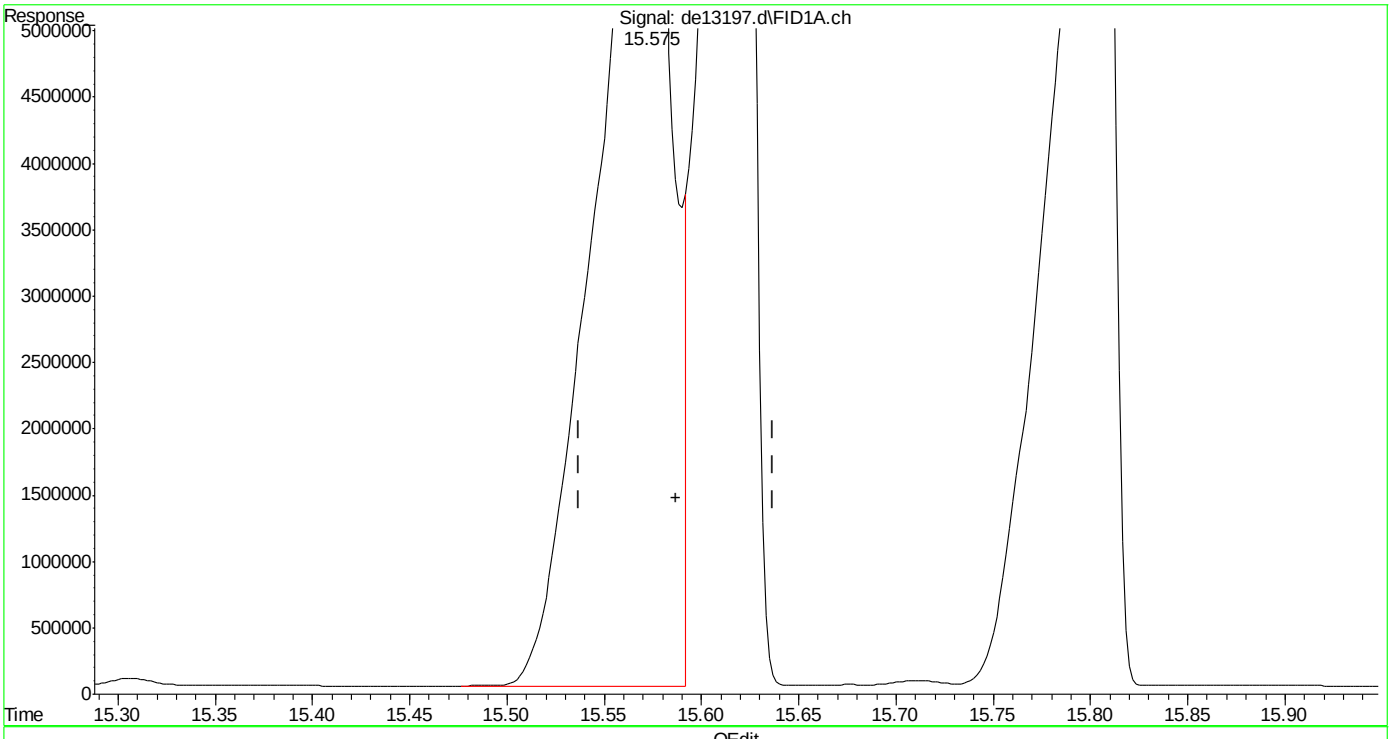
SGS ACCUTEST MC45538

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

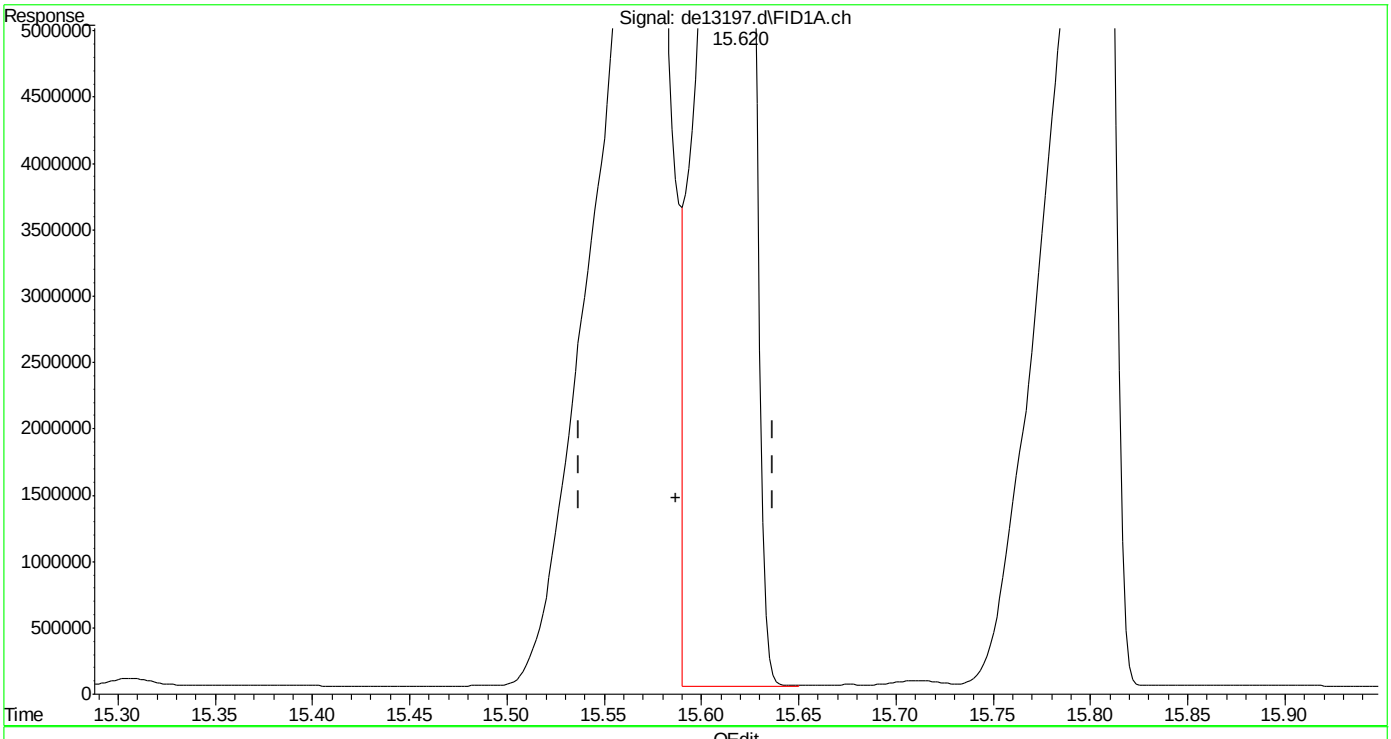
(+) = Expected Retention Time

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

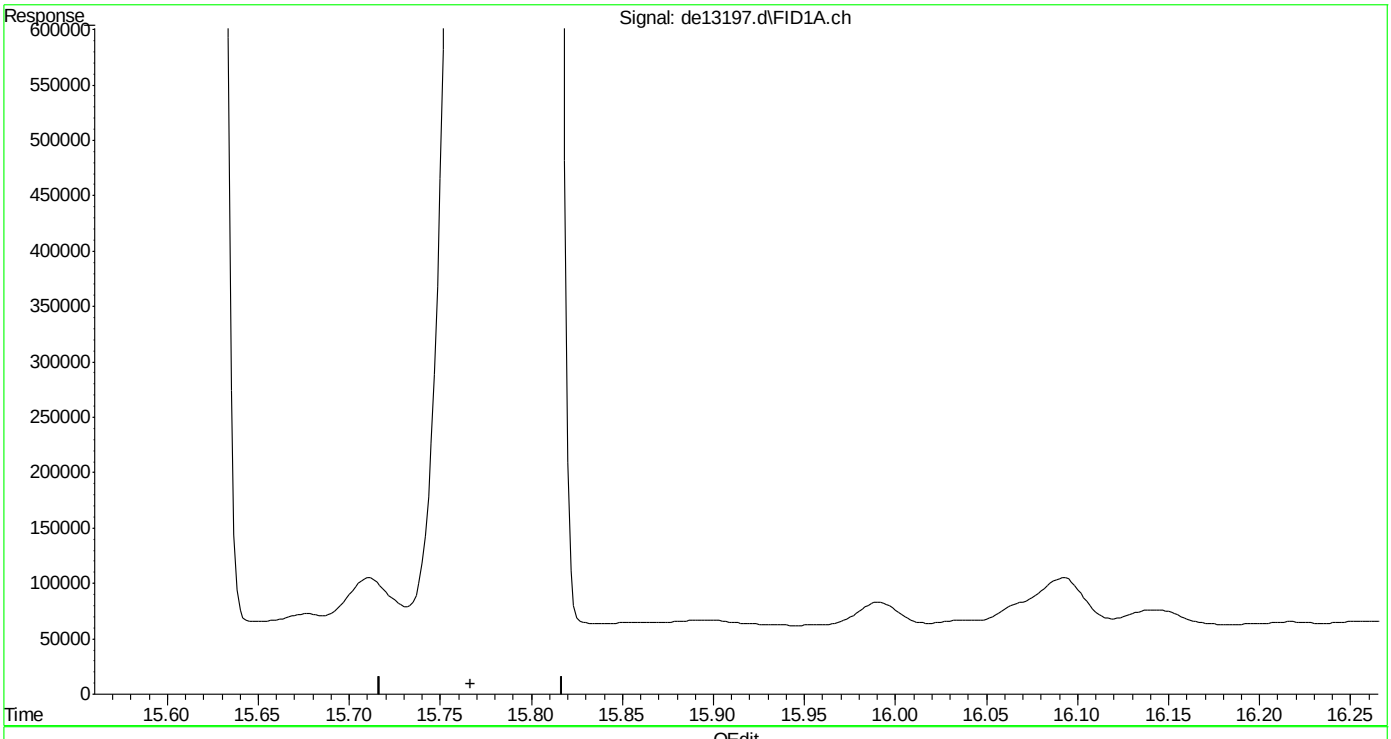
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:26 2016

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

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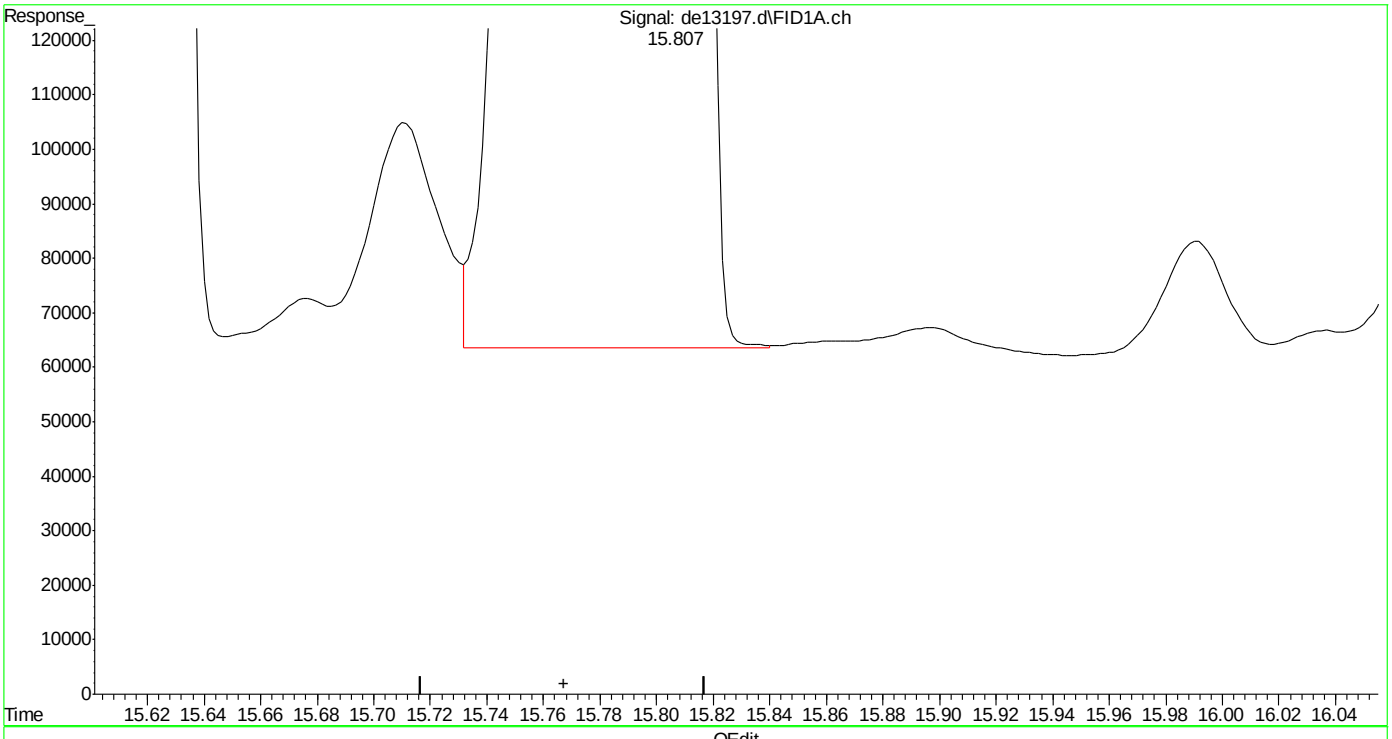
Quantitation Report (Qedit)

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

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

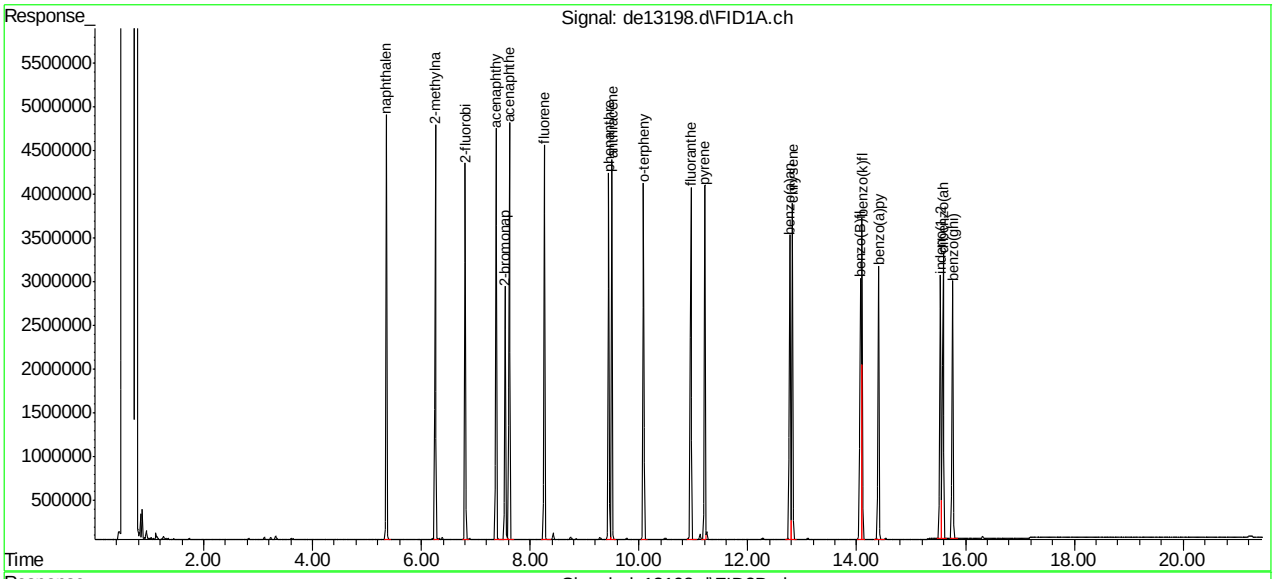
9

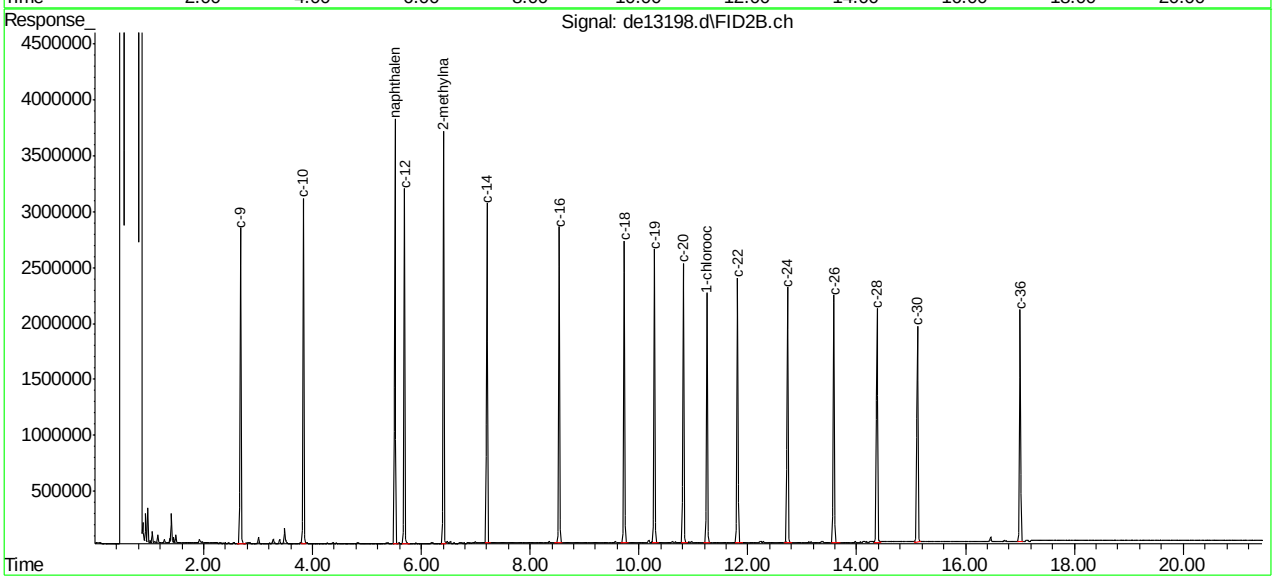
Quantitation Report (QT Reviewed)

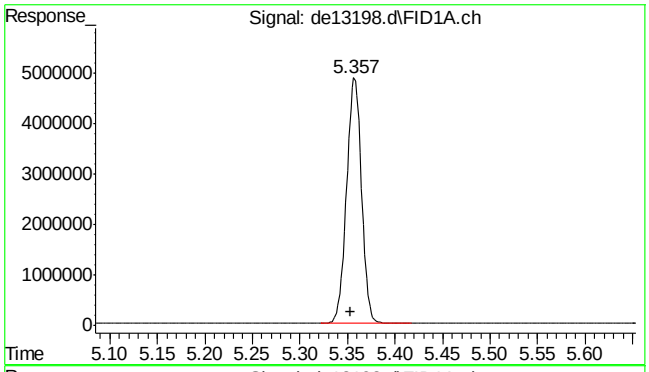
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

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 :

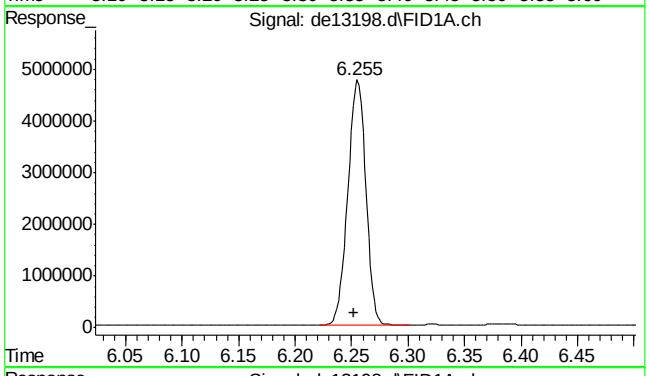






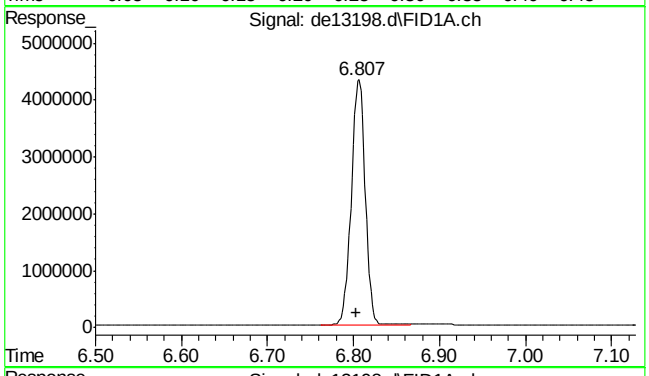
#2 naphthalene

R.T.: 5.357 min
Delta R.T.: 0.004 min
Response: 5321324
Conc: 51.59 µg/ml



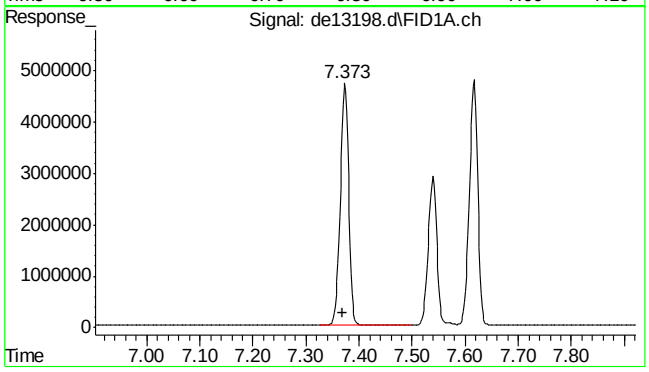
#3 2-methylnaphthalene

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

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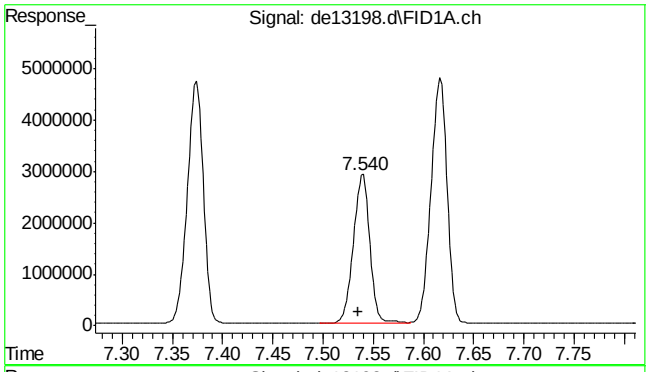
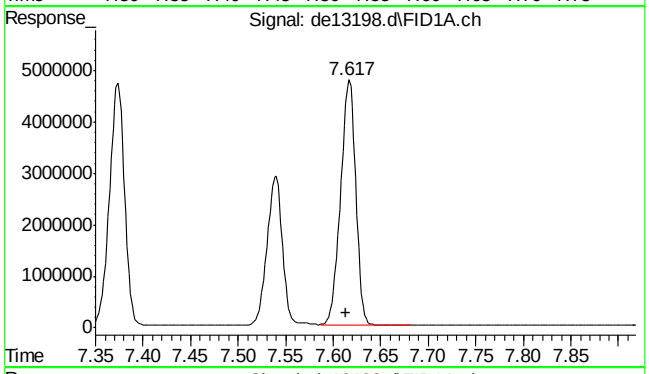


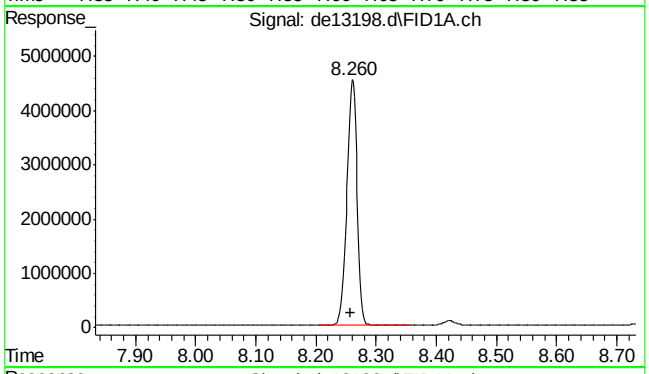
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 3261205
Conc: 51.97 µg/ml



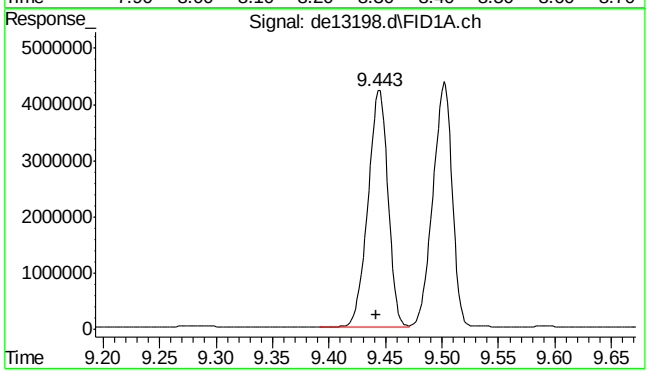
#7 acenaphthene

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

9.5.8

9

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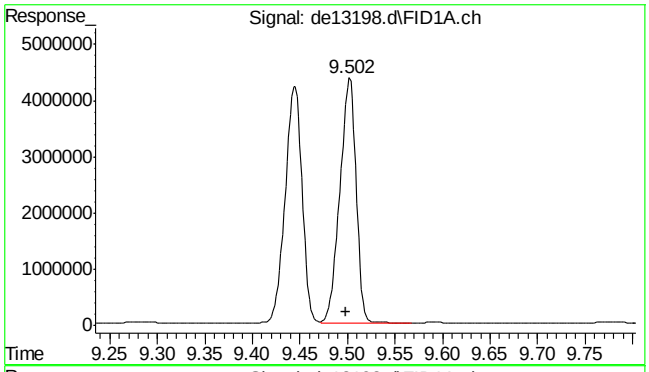
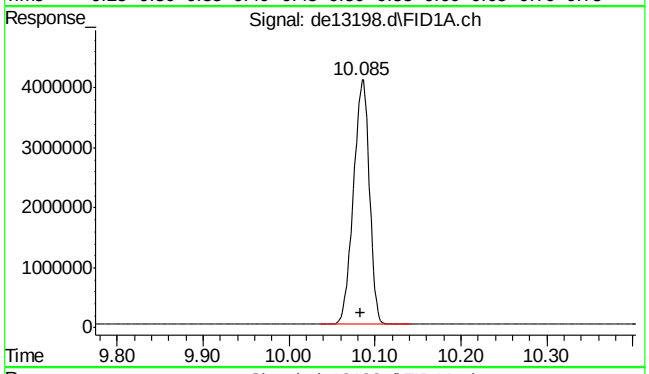


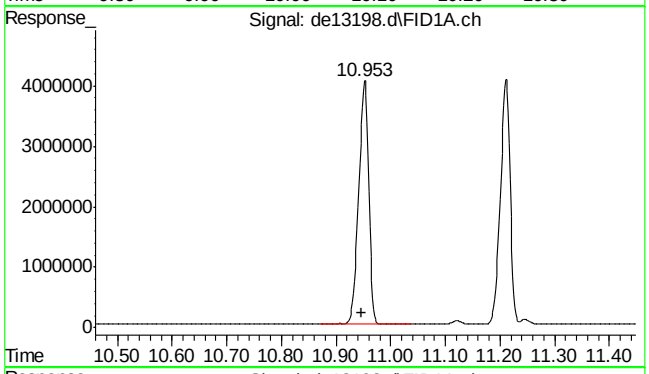
#10 anthracene

R.T.: 9.502 min
Delta R.T.: 0.004 min
Response: 5163442
Conc: 53.23 µg/ml



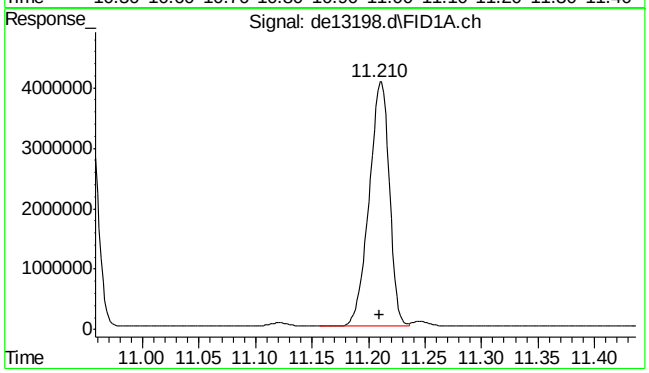
#11 o-terphenyl

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



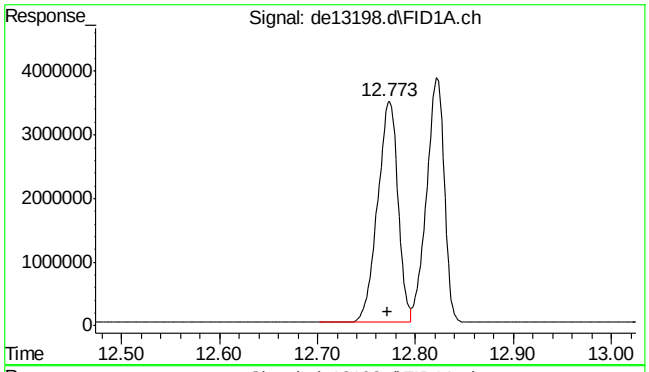
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5076986
Conc: 50.04 µg/ml

9.5.8

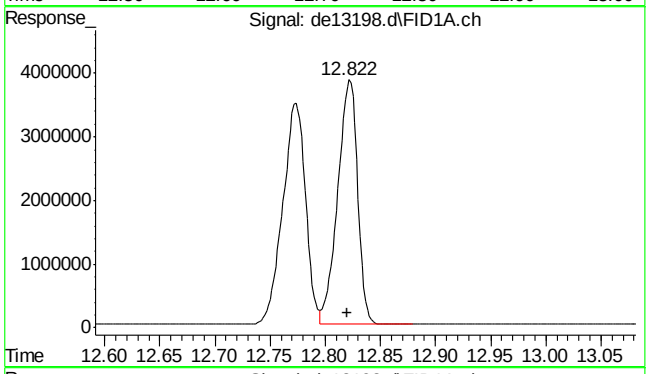
9

SGS ACCUTEST MC45538



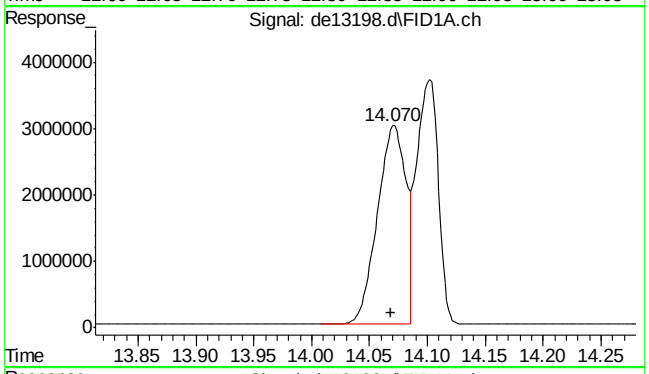
#14 benzo(a)anthracene

R.T.: 12.773 min
Delta R.T.: 0.001 min
Response: 5010585
Conc: 51.83 µg/ml m



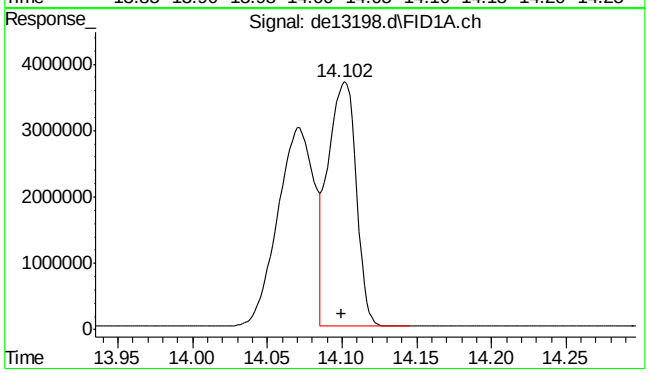
#15 chrysene

R.T.: 12.822 min
Delta R.T.: 0.002 min
Response: 4818393
Conc: 49.50 µg/ml m



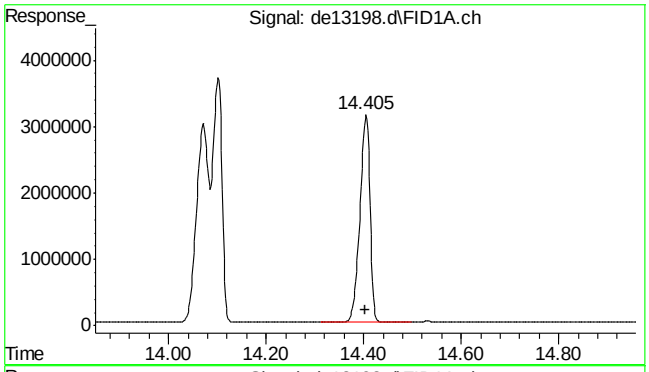
#16 benzo(B)fluoranthene

R.T.: 14.070 min
Delta R.T.: 0.002 min
Response: 5126155
Conc: 51.78 µg/ml m



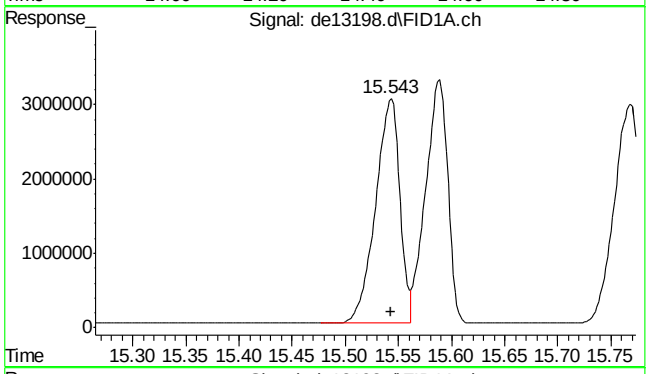
#17 benzo(k)fluoranthene

R.T.: 14.102 min
Delta R.T.: 0.002 min
Response: 4808431
Conc: 50.88 µg/ml m



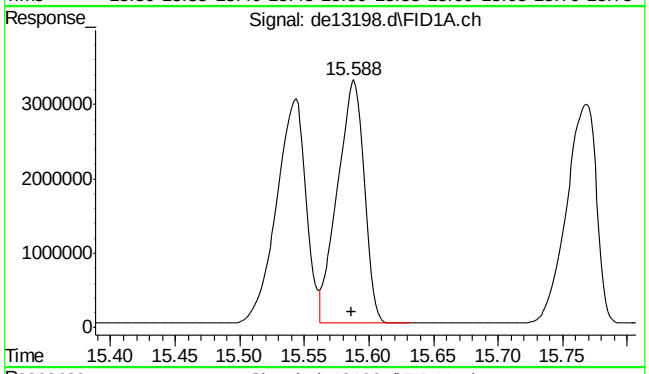
#18 benzo(a)pyrene

R.T.: 14.405 min
Delta R.T.: 0.003 min
Response: 4486318
Conc: 48.53 µg/ml



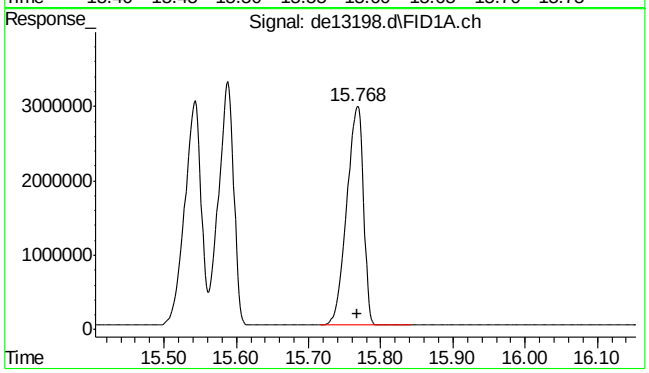
#19 indeno(1,2,3-cd)pyrene

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

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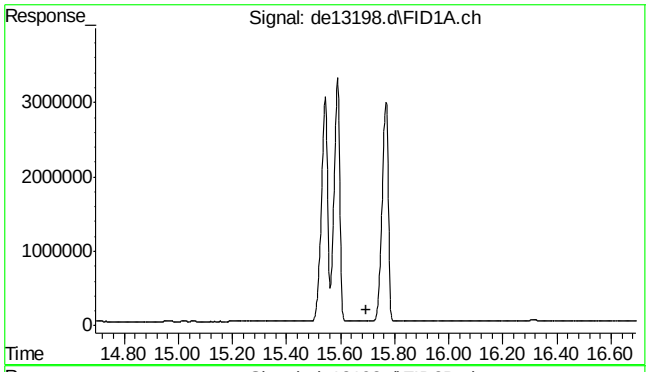
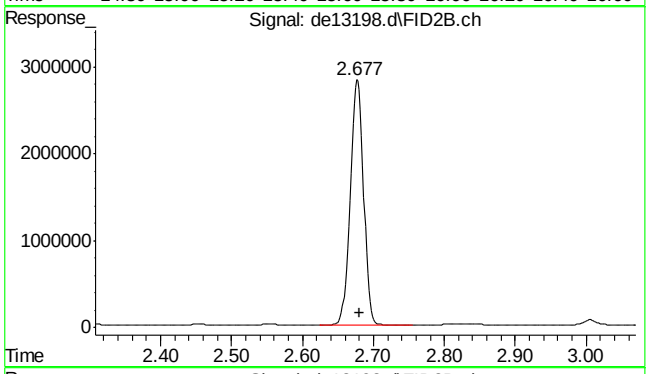


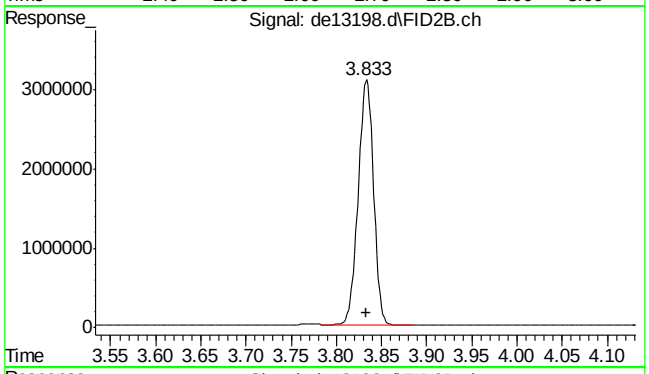
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



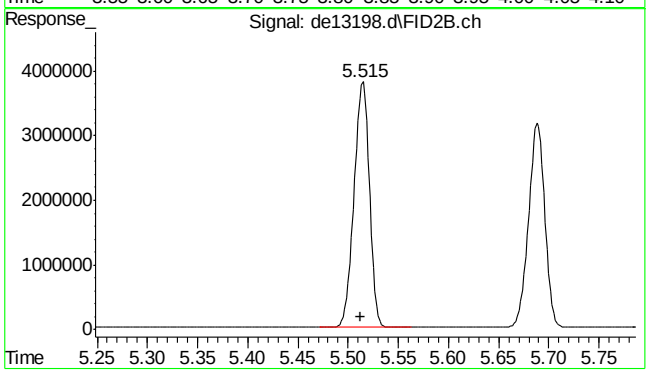
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3669865
Conc: 49.68 µg/ml m



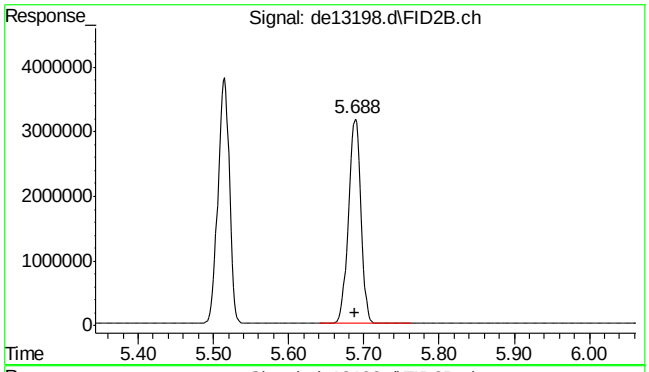
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3682081
Conc: 49.84 µg/ml



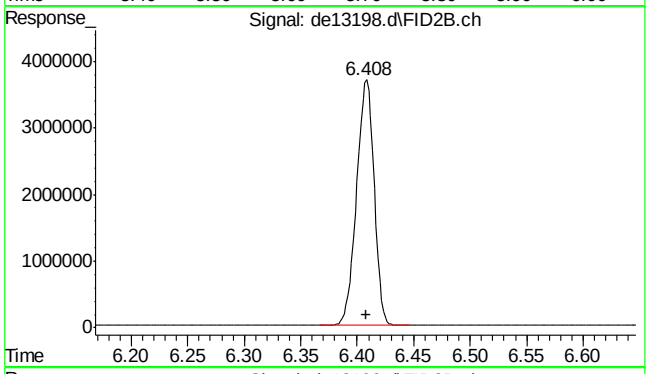
#27 naphthalene #2

R.T.: 5.515 min
Delta R.T.: 0.002 min
Response: 4035939
Conc: 50.53 µg/ml



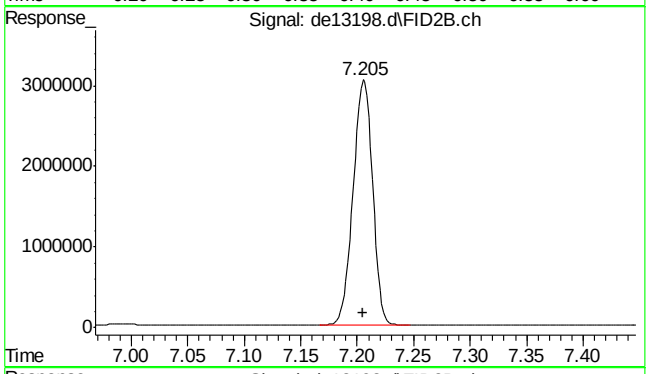
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3625160
Conc: 49.07 µg/ml



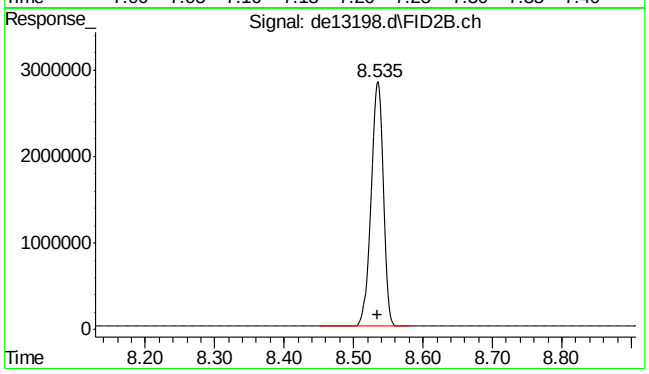
#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3954192
Conc: 49.08 µg/ml



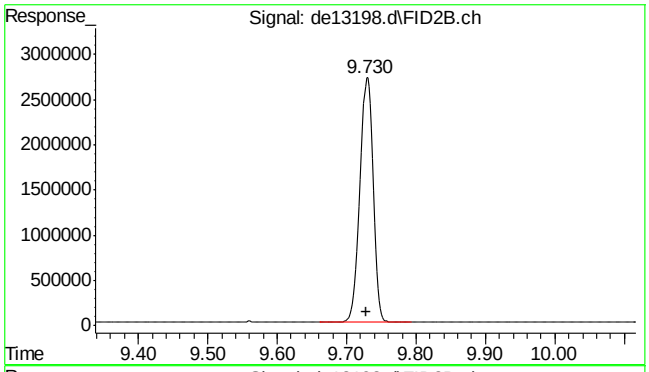
#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3605226
Conc: 48.80 µg/ml



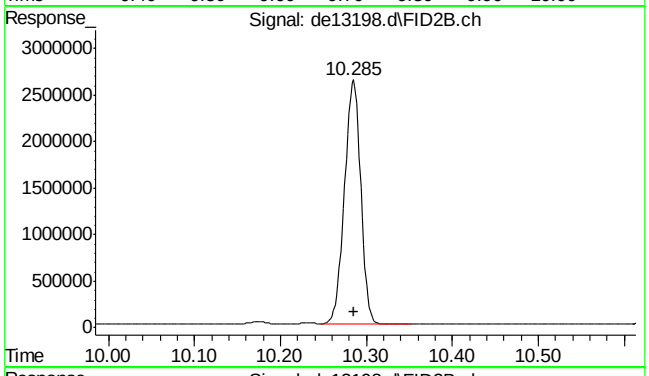
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3538485
Conc: 47.90 µg/ml



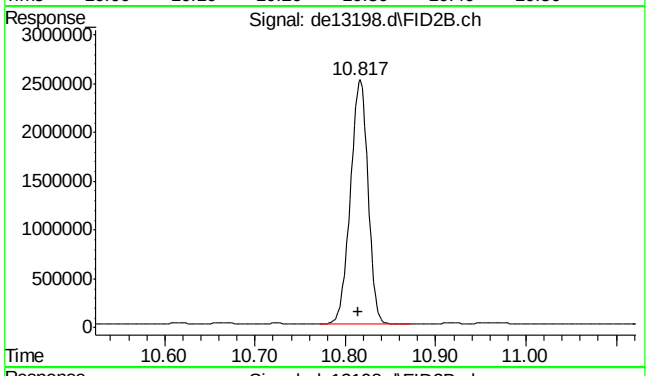
#32 c-18

R.T.: 9.730 min
Delta R.T.: 0.002 min
Response: 3494684
Conc: 47.31 µg/ml



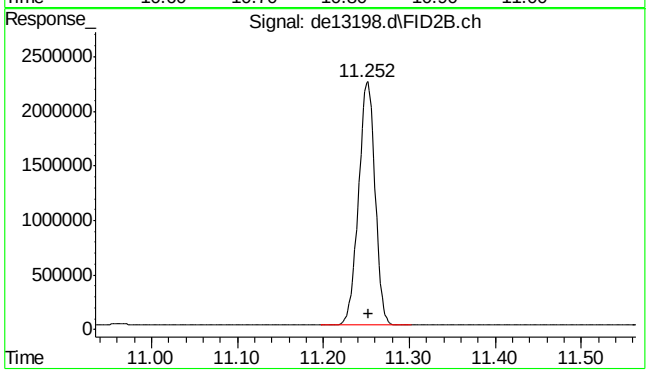
#33 c-19

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

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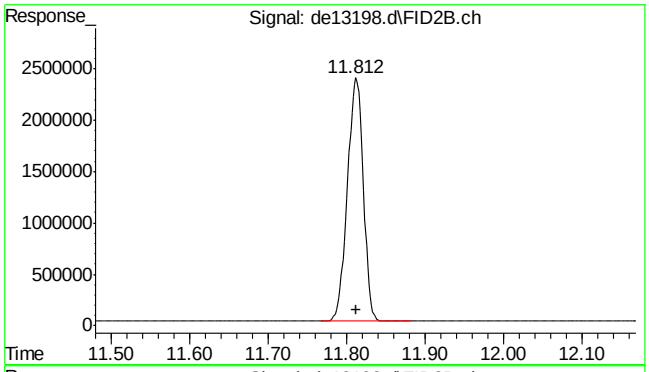
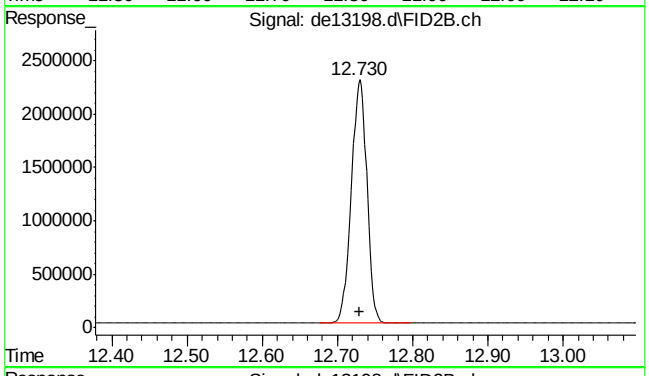


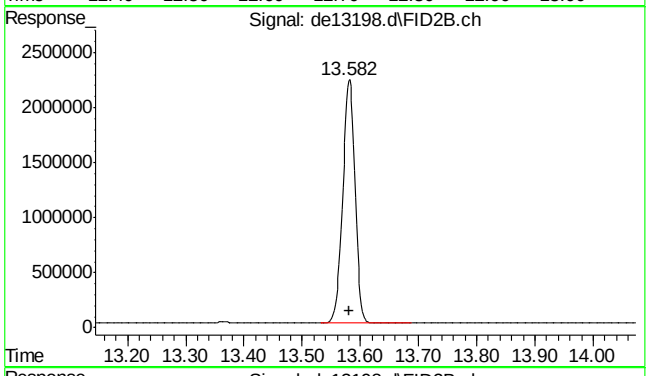
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3335369
Conc: 49.93 µg/ml



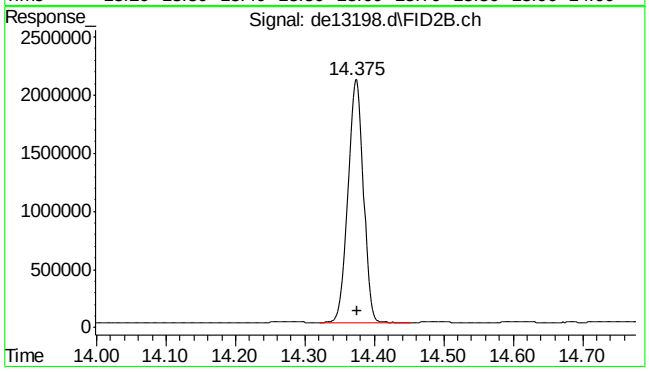
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3275936
Conc: 49.04 µg/ml



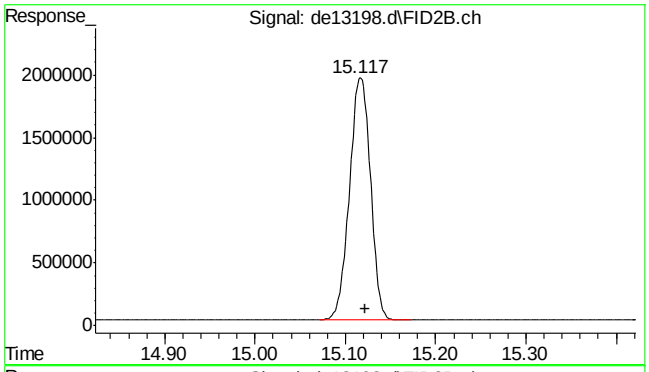
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3251556
Conc: 48.67 µg/ml



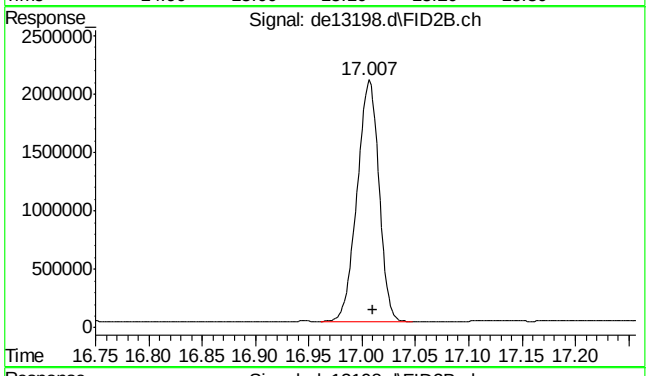
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3204302
Conc: 47.96 µg/ml



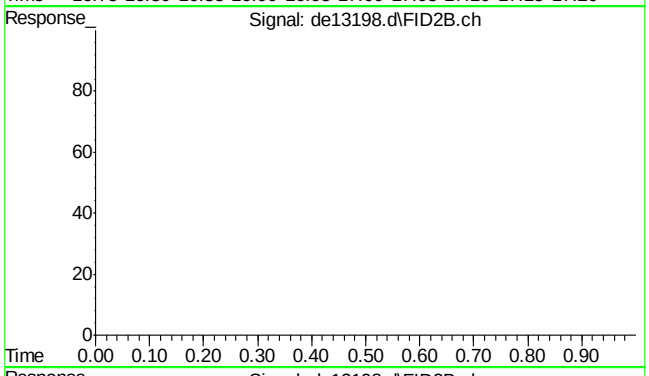
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3143578
Conc: 47.06 µg/ml



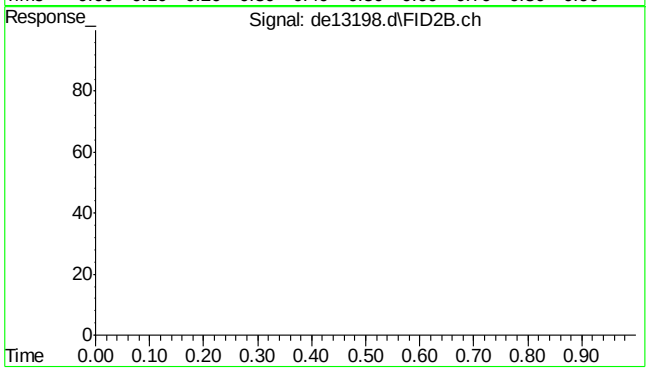
#41 c-36

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.

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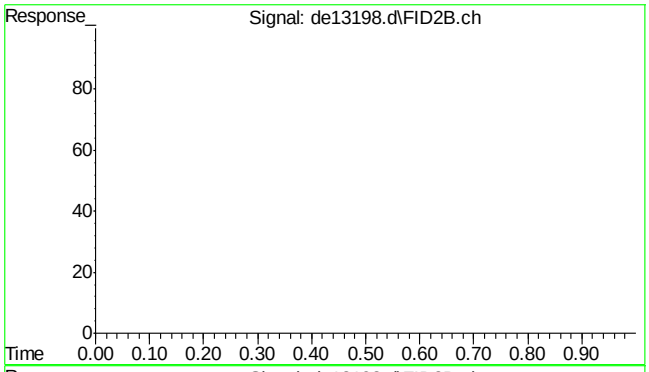
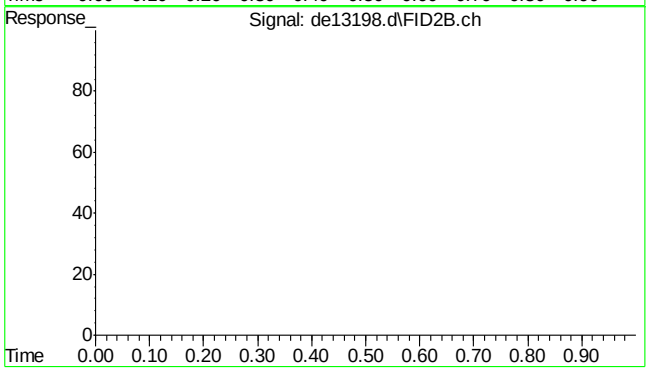


#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

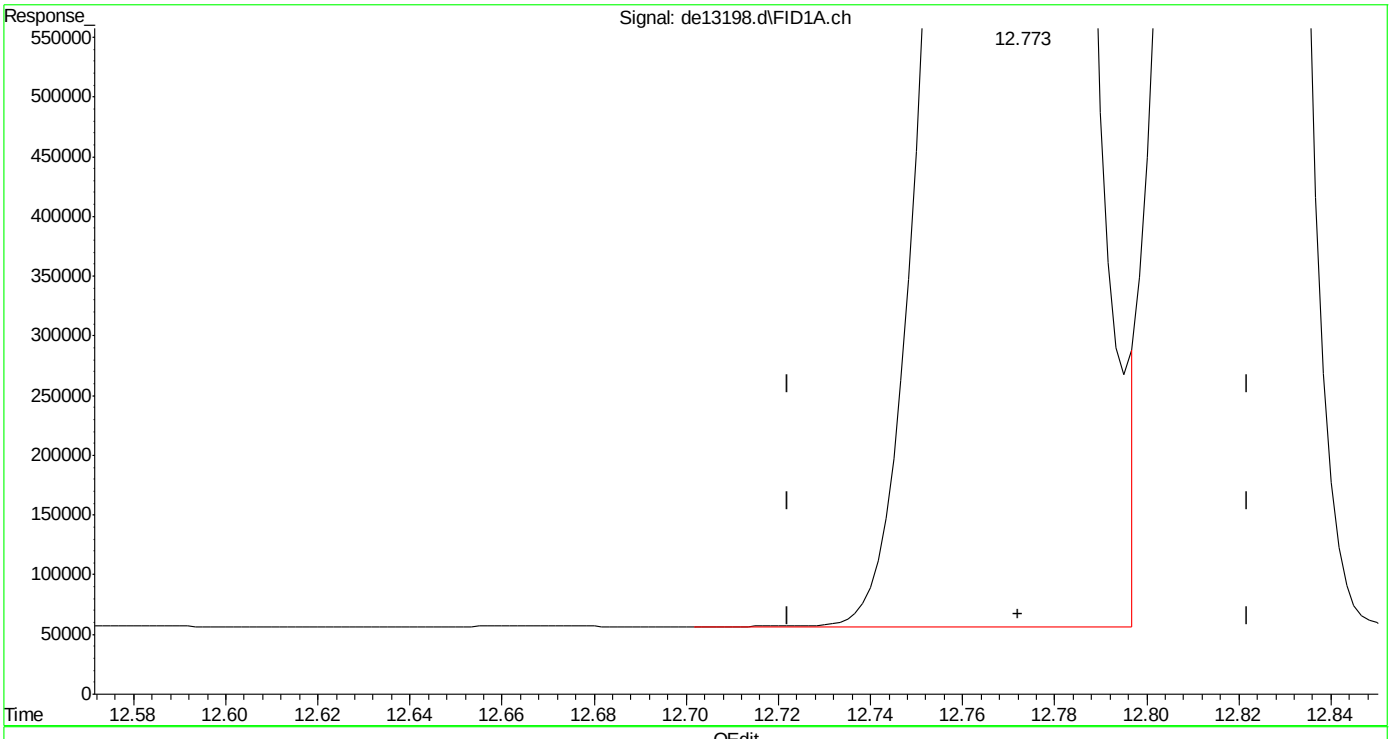
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : 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

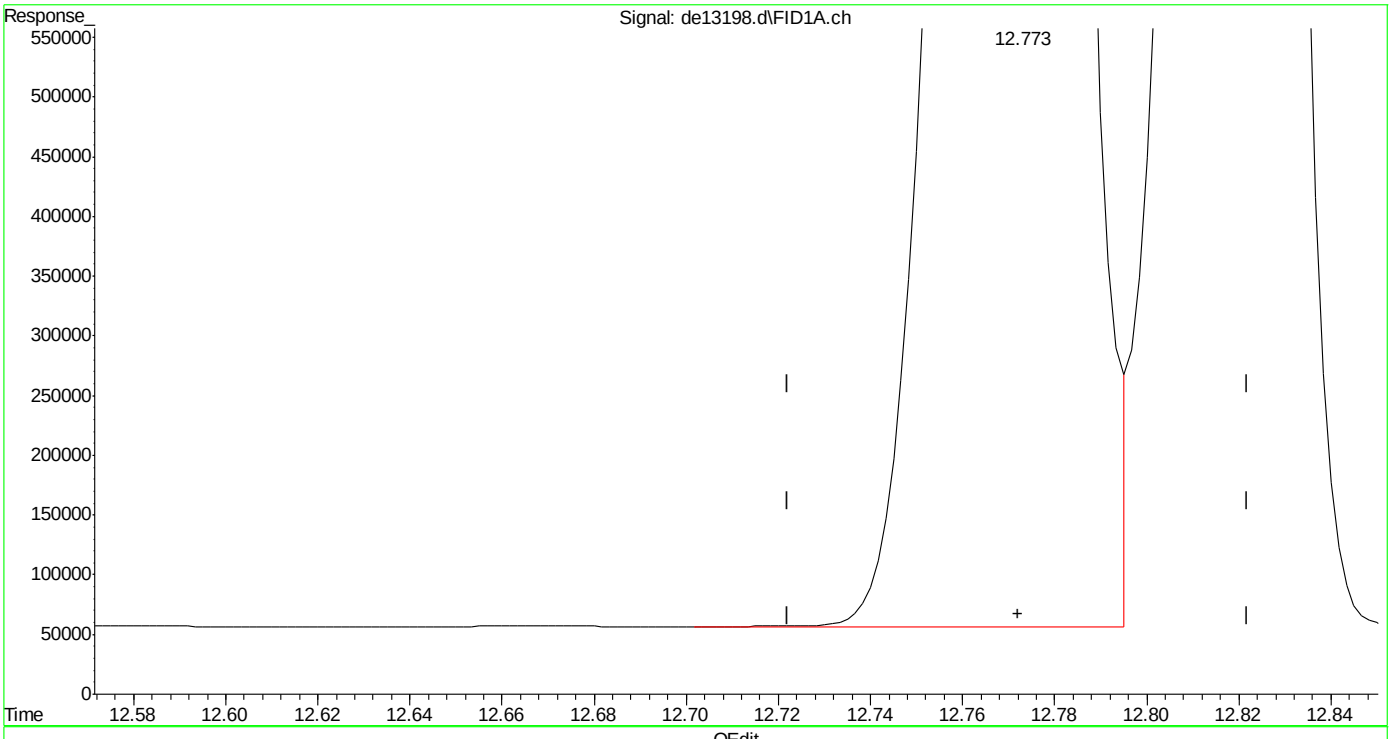
SGS ACCUTEST MC45538

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

EPH160204W.M Fri Feb 05 11:46:28 2016

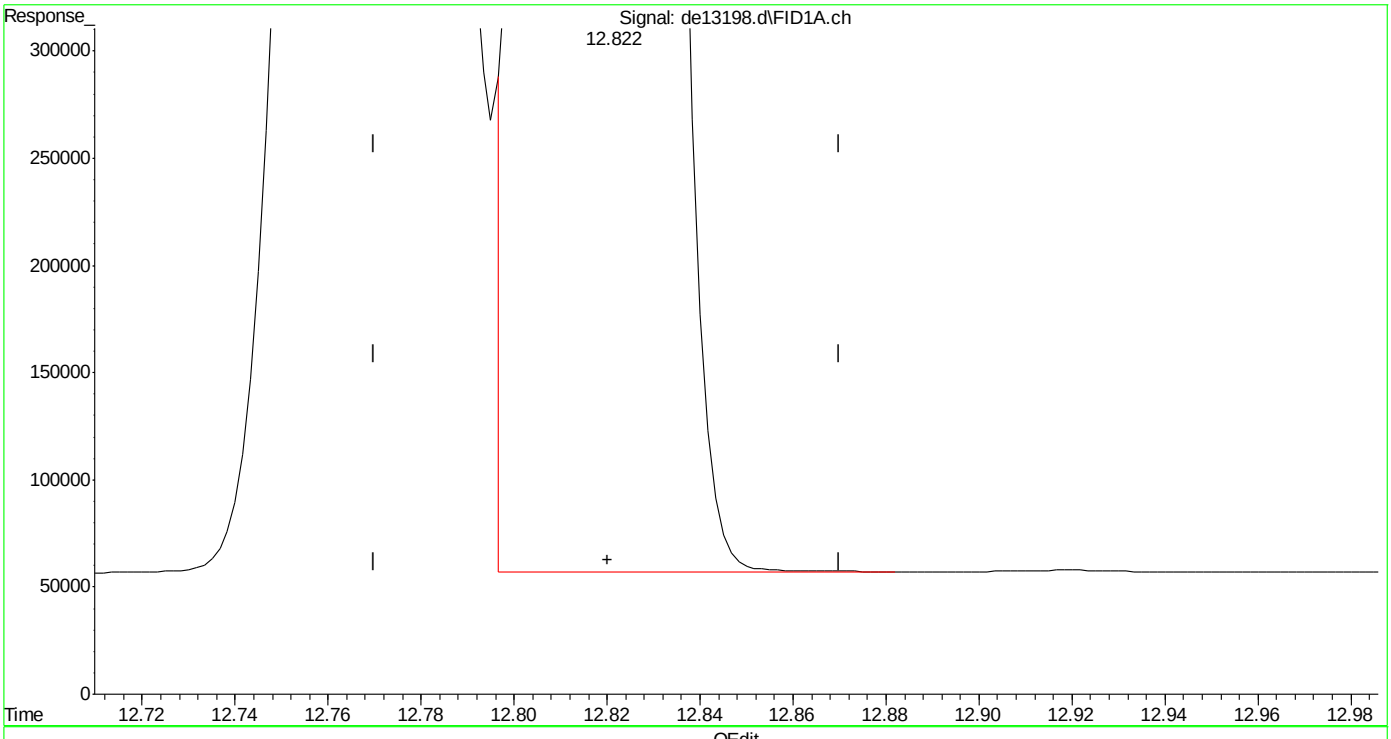
SGS ACCUTEST MC45538

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

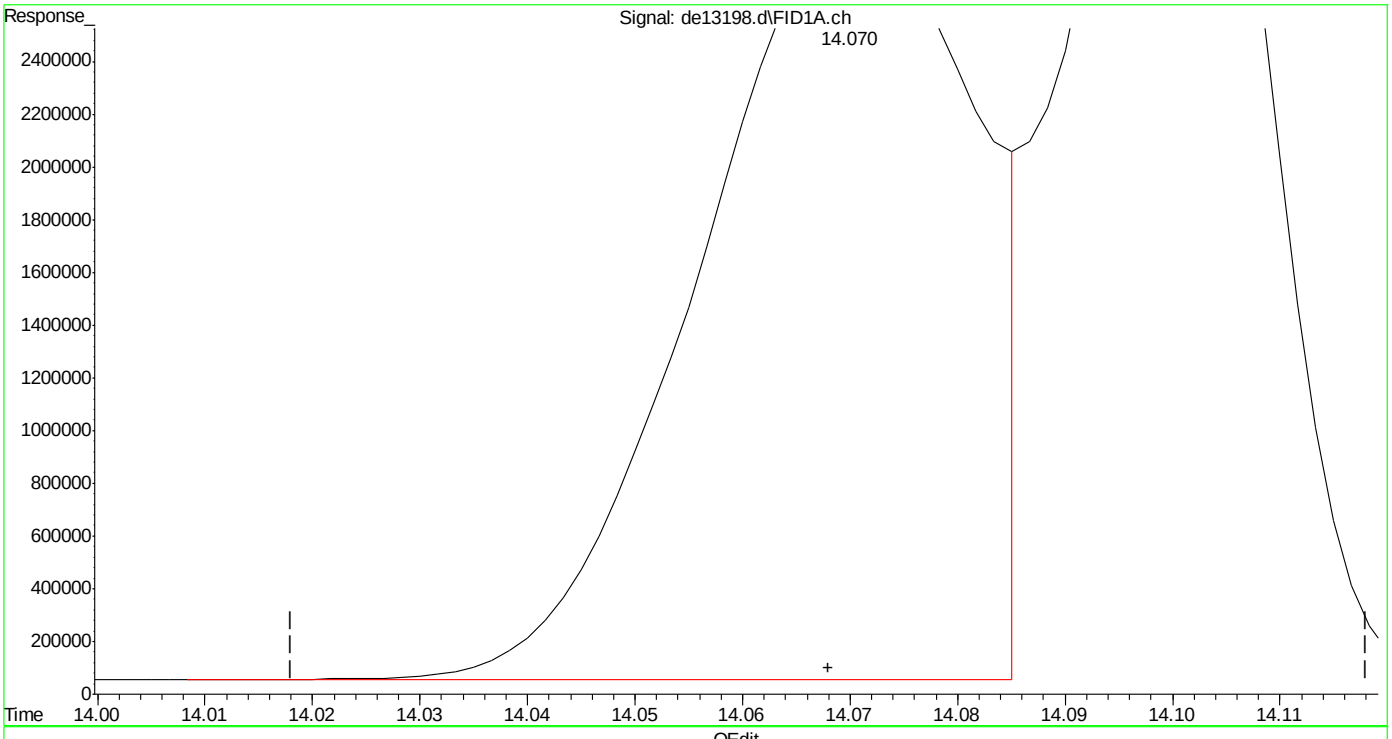
SGS ACCUTEST MC45538

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

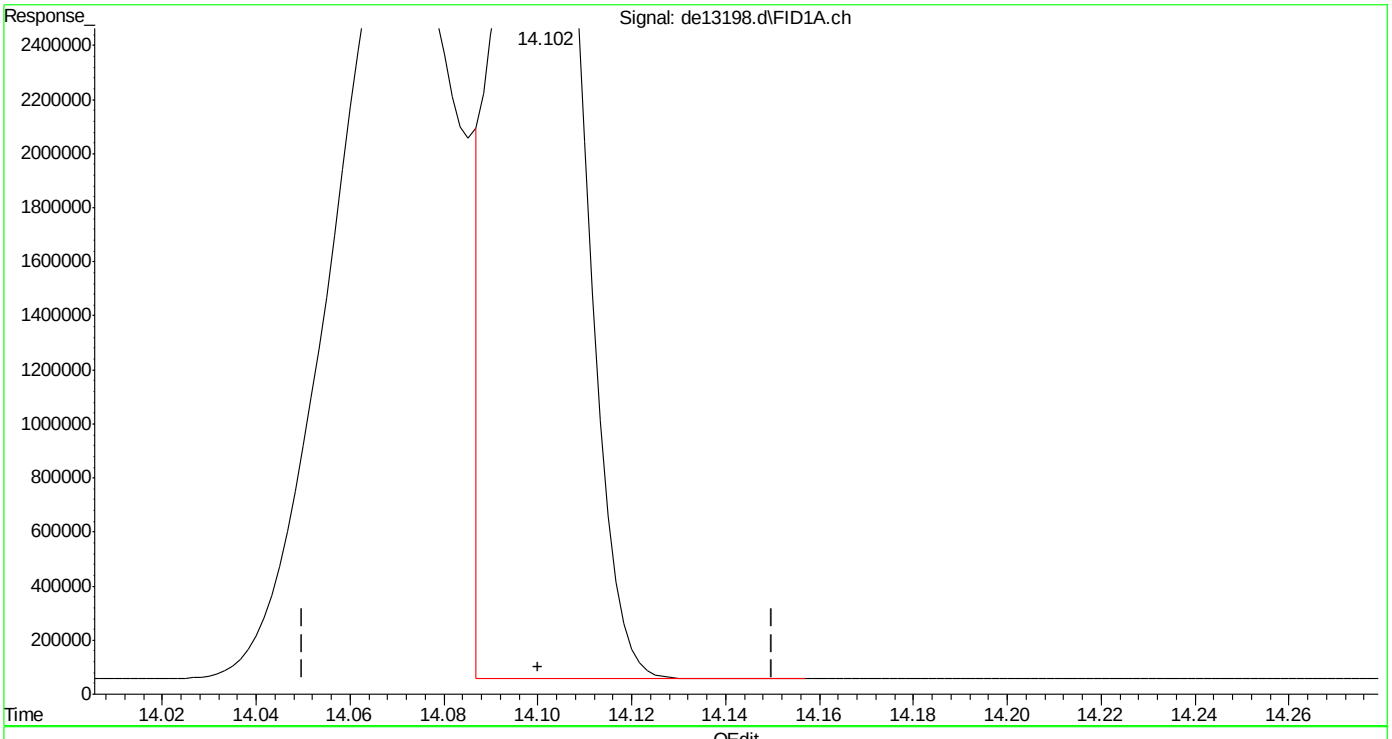
SGS ACCUTEST MC45538

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

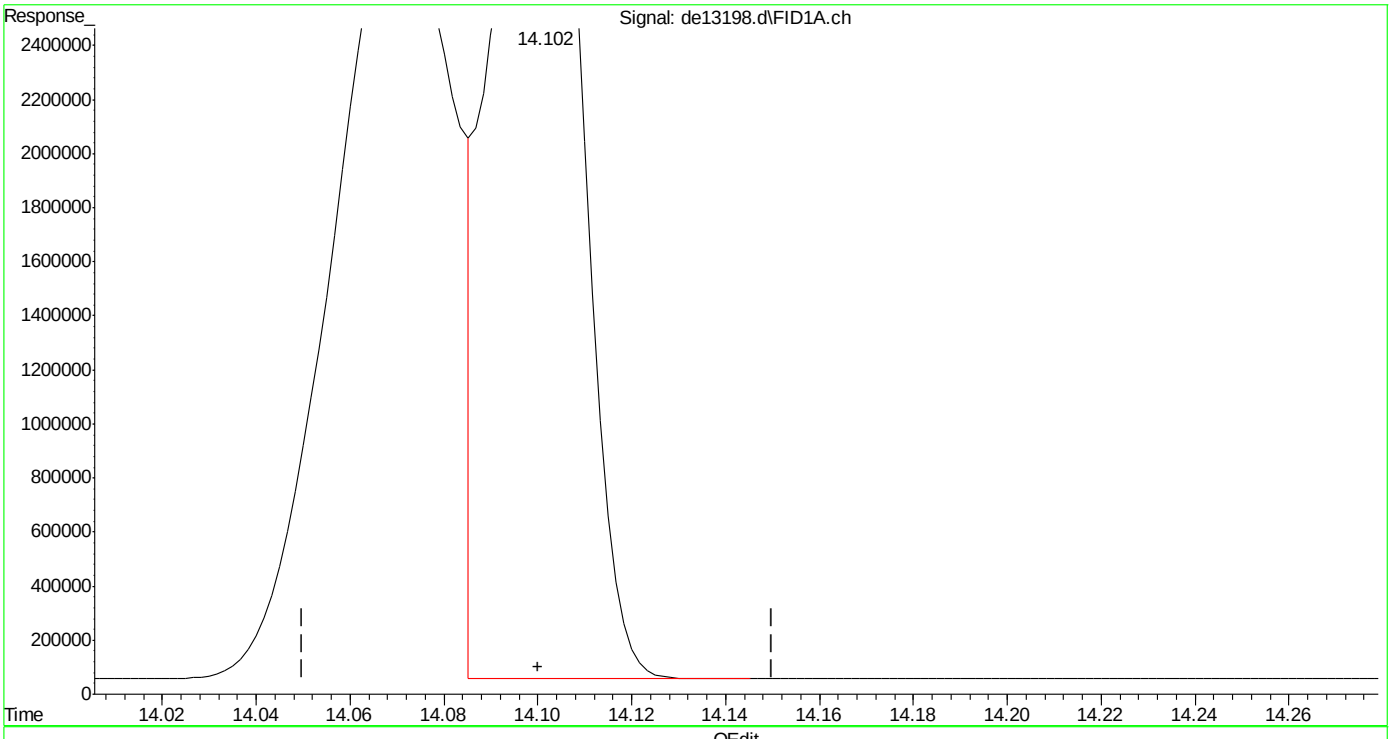
SGS ACCUTEST MC45538

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

SGS ACCUTEST MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13980.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 12:37 pm
Operator : thomasa
Sample : cc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 14:09:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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	6.715	4051158	43.924 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 219.62%#
6) s	2-bromonaphthalene	7.448	2695961	42.960 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 214.80%#
11) s	o-terphenyl	9.988	4620253	45.108 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 225.54%#
35) s	1-chlorooctadecane	11.230	2875325	50.823 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 254.12%#
	Target Compounds			
2)	naphthalene	5.263	4460788	43.250 µg/ml
3)	2-methylnaphthalene	6.163	4512401	44.031 µg/ml
5)	acenaphthylene	7.282	4471501	44.448 µg/ml
7)	acenaphthene	7.523	4712433	45.585 µg/ml
8)	fluorene	8.170	4486406	44.172 µg/ml
9)	phenanthrene	9.355	4493306	44.155 µg/ml
10)	anthracene	9.412	4364745	44.994 µg/ml
12)	fluoranthene	10.863	4558726	45.614 µg/ml
13)	pyrene	11.123	4679952	46.125 µg/ml
14)	benzo(a)anthracene	12.692	4491912	46.464 µg/ml
15)	chrysene	12.740	4708900	48.375 µg/ml
16)	benzo(B)fluoranthene	13.998	5114103	51.656 µg/ml
17)	benzo(k)fluoranthene	14.023	4323592	45.751 µg/ml
18)	benzo(a)pyrene	14.332	4402660	47.630 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.478	3612503	38.164 µg/ml
20)	dibenzo(ah)anthracene	15.517	3974386	43.484 µg/ml
21)	benzo(ghi)perylene	15.705	4560117	49.500 µg/ml
25) h	c-9	2.648	3717378	50.322 µg/mlm
26) h	c-10	3.815	3750140	50.765 µg/ml
27)	naphthalene #2	5.490	4014734	50.264 µg/ml
28)	c-12	5.668	3749319	50.754 µg/ml
29)	2-methylnaphthalene #2	6.385	4009880	49.771 µg/ml
30)	c-14	7.187	3689093	49.939 µg/ml
31)	c-16	8.517	3657596	49.513 µg/ml
32)	c-18	9.710	3655590	49.485 µg/ml
33)	c-19	10.265	3635906	54.424 µg/ml
34)	c-20	10.798	3551382	53.159 µg/ml
36)	c-22	11.793	3539673	52.984 µg/ml
37)	c-24	12.710	3302776	49.438 µg/ml
38)	c-26	13.562	3502913	52.434 µg/ml

SGS ACCUTEST MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13980.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 12:37 pm
Operator : thomasa
Sample : cc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 14:09:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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	14.355	3383650	50.649	µg/ml
40) h	c-30	15.098	3374168	50.507	µg/ml
41) h	c-36	17.008	2773579	41.517	µg/mlm

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

9.5.9

9

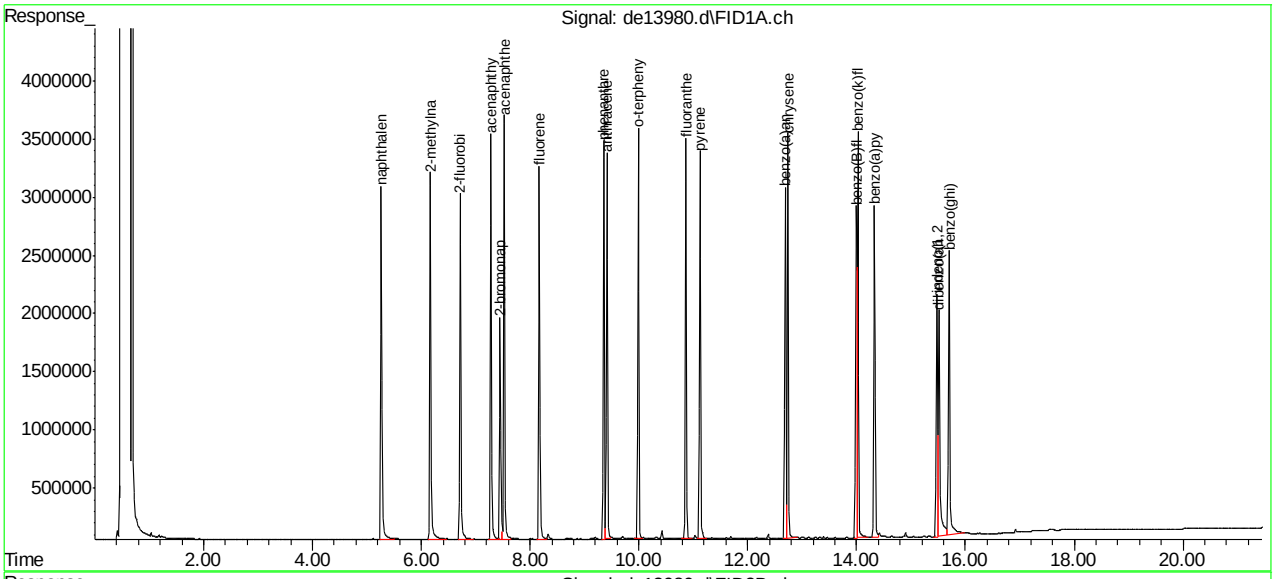
SGS ACCUTEST MC45538

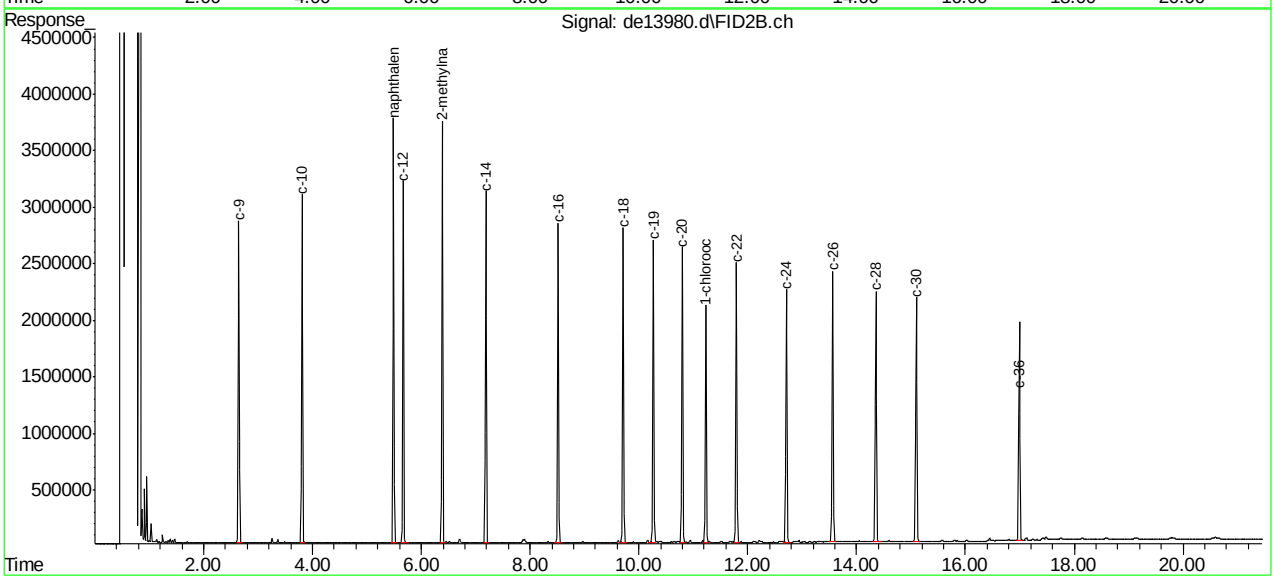
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13980.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 12:37 pm
Operator : thomasa
Sample : cc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

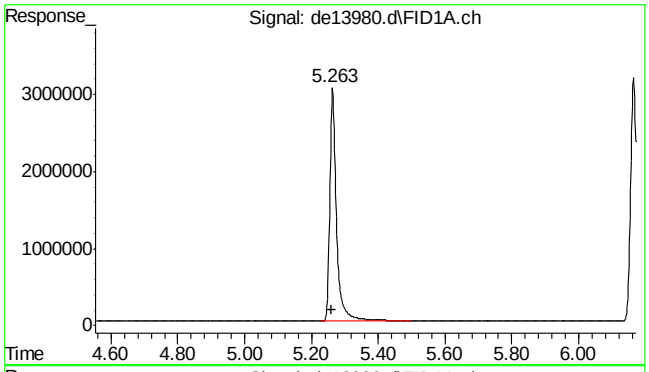
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 14:09:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 2016
Response via : Initial Calibration
Integrator: RTE

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



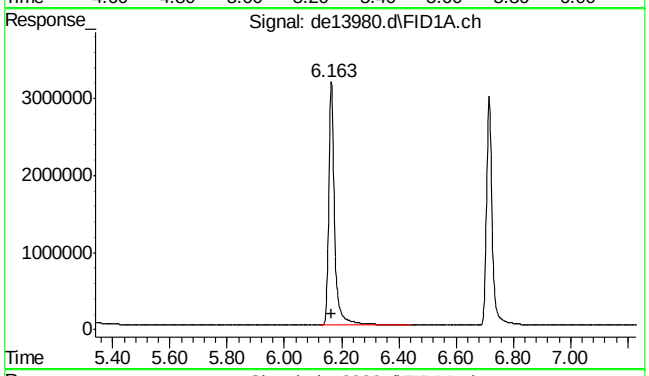


SGS ACCUTEST MC45538



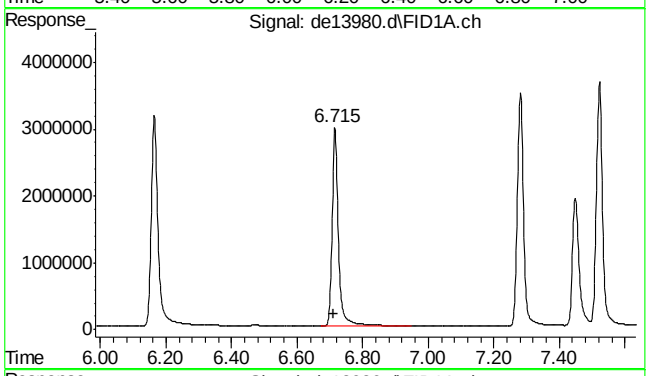
#2 naphthalene

R.T.: 5.263 min
Delta R.T.: 0.002 min
Response: 4460788
Conc: 43.25 µg/ml



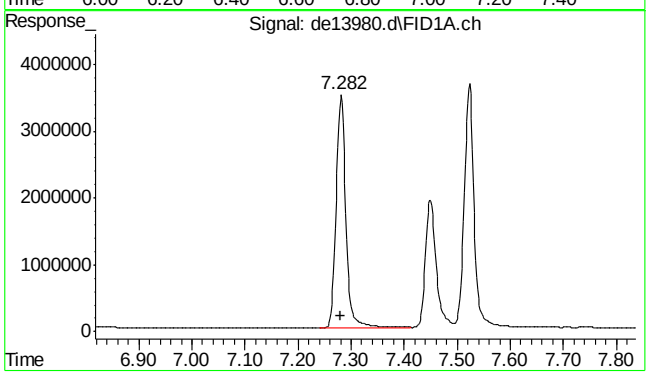
#3 2-methylnaphthalene

R.T.: 6.163 min
Delta R.T.: 0.000 min
Response: 4512401
Conc: 44.03 µg/ml



#4 2-fluorobiphenyl

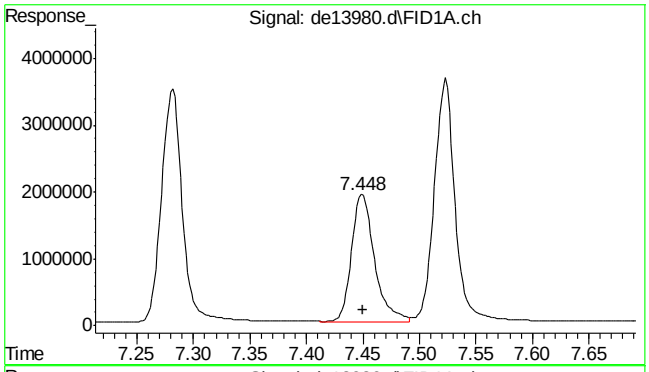
R.T.: 6.715 min
Delta R.T.: 0.002 min
Response: 4051158
Conc: 43.92 µg/ml



#5 acenaphthylene

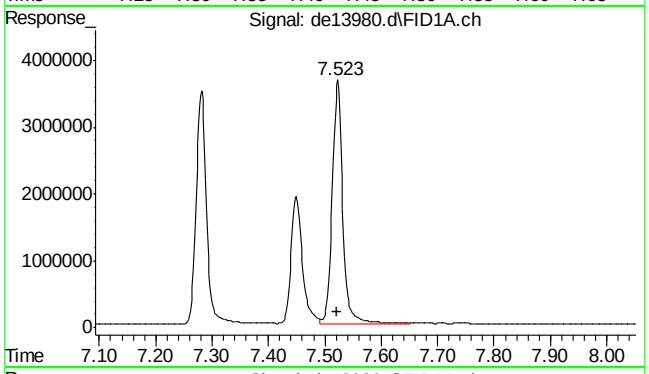
R.T.: 7.282 min
Delta R.T.: 0.002 min
Response: 4471501
Conc: 44.45 µg/ml

SGS ACCUTEST MC45538



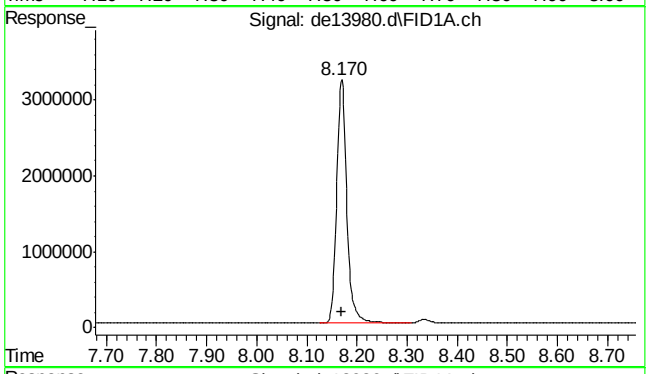
#6 2-bromonaphthalene

R.T.: 7.448 min
Delta R.T.: -0.002 min
Response: 2695961
Conc: 42.96 µg/ml



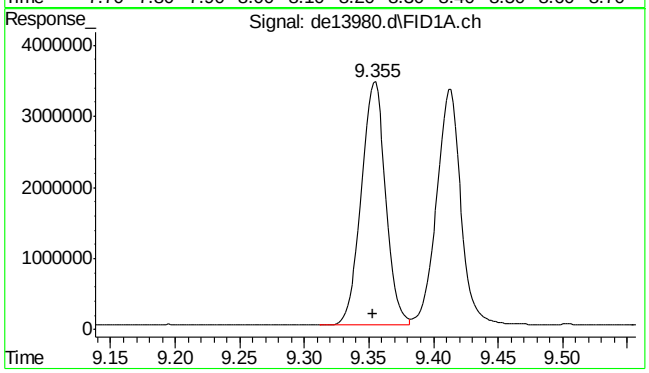
#7 acenaphthene

R.T.: 7.523 min
Delta R.T.: 0.002 min
Response: 4712433
Conc: 45.59 µg/ml



#8 fluorene

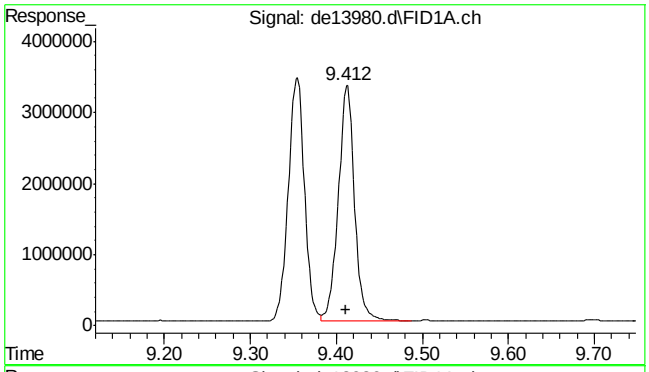
R.T.: 8.170 min
Delta R.T.: 0.002 min
Response: 4486406
Conc: 44.17 µg/ml



#9 phenanthrene

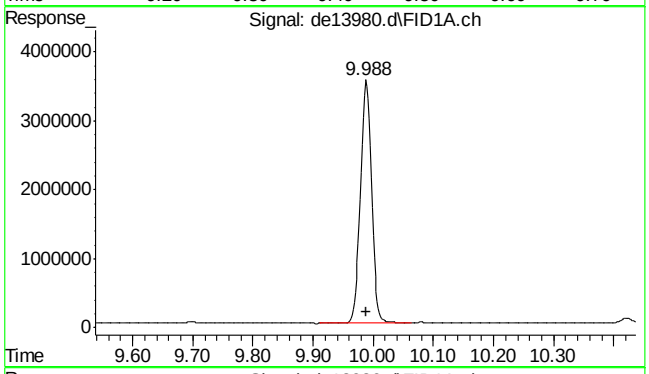
R.T.: 9.355 min
Delta R.T.: 0.002 min
Response: 4493306
Conc: 44.15 µg/ml

SGS ACCUTEST MC45538



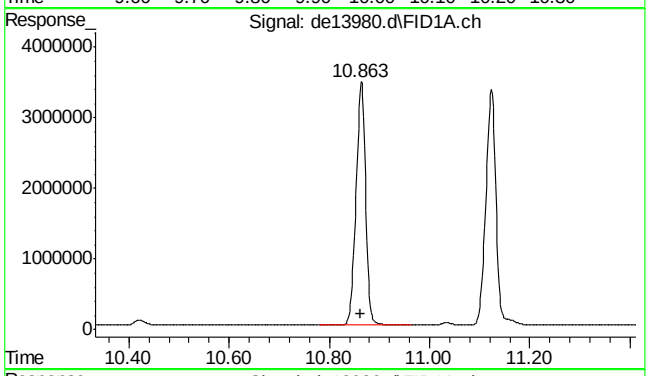
#10 anthracene

R.T.: 9.412 min
Delta R.T.: 0.000 min
Response: 4364745
Conc: 44.99 µg/ml



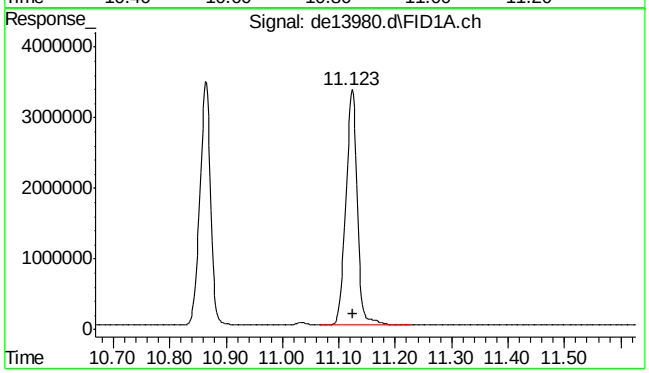
#11 o-terphenyl

R.T.: 9.988 min
Delta R.T.: 0.000 min
Response: 4620253
Conc: 45.11 µg/ml



#12 fluoranthene

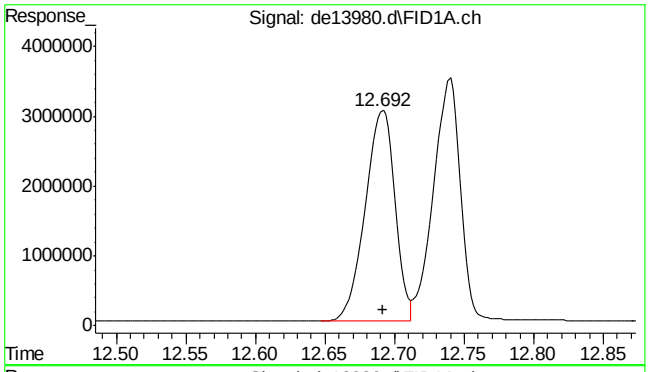
R.T.: 10.863 min
Delta R.T.: 0.000 min
Response: 4558726
Conc: 45.61 µg/ml



#13 pyrene

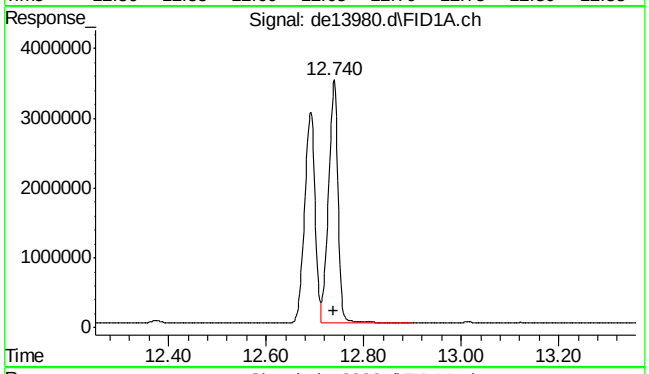
R.T.: 11.123 min
Delta R.T.: -0.002 min
Response: 4679952
Conc: 46.12 µg/ml

SGS ACCUTEST MC45538



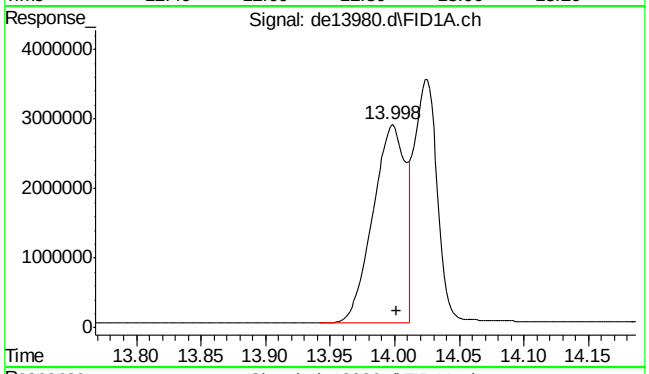
#14 benzo(a)anthracene

R.T.: 12.692 min
Delta R.T.: 0.000 min
Response: 4491912
Conc: 46.46 µg/ml



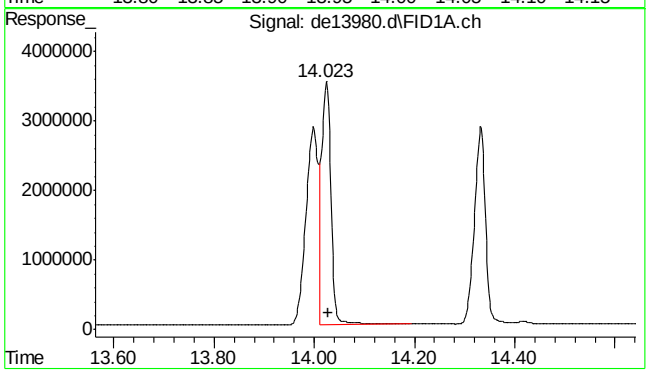
#15 chrysene

R.T.: 12.740 min
Delta R.T.: 0.002 min
Response: 4708900
Conc: 48.38 µg/ml



#16 benzo(B)fluoranthene

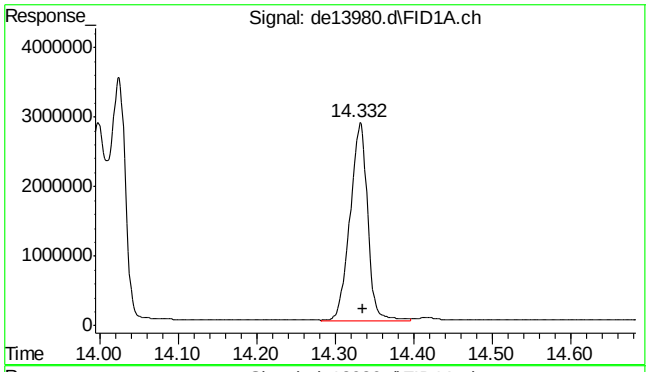
R.T.: 13.998 min
Delta R.T.: -0.003 min
Response: 5114103
Conc: 51.66 µg/ml



#17 benzo(k)fluoranthene

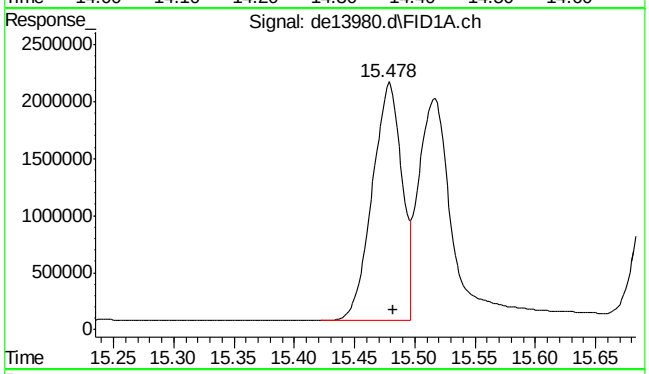
R.T.: 14.023 min
Delta R.T.: -0.003 min
Response: 4323592
Conc: 45.75 µg/ml

SGS ACCUTEST MC45538



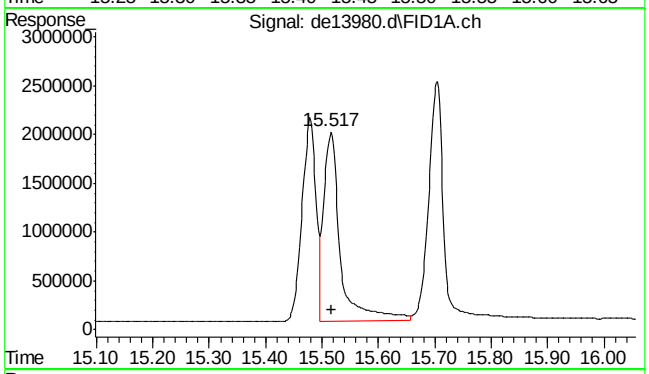
#18 benzo(a)pyrene

R.T.: 14.332 min
Delta R.T.: -0.003 min
Response: 4402660
Conc: 47.63 µg/ml



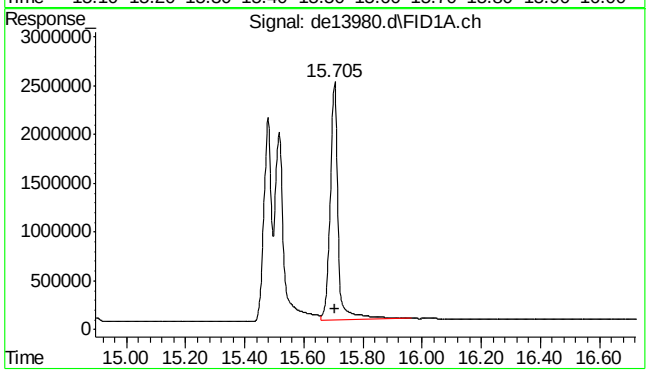
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.478 min
Delta R.T.: -0.003 min
Response: 3612503
Conc: 38.16 µg/ml



#20 dibenzo(ah)anthracene

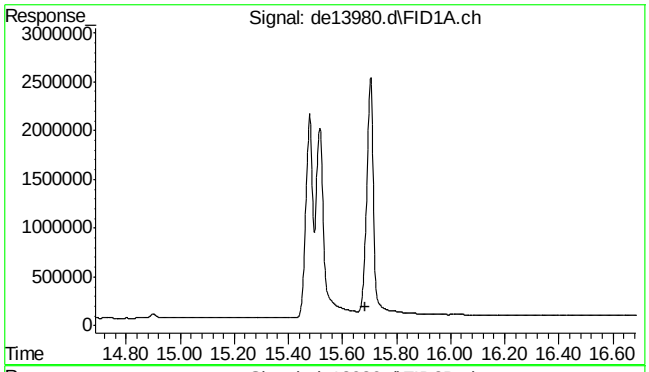
R.T.: 15.517 min
Delta R.T.: 0.000 min
Response: 3974386
Conc: 43.48 µg/ml



#21 benzo(ghi)perylene

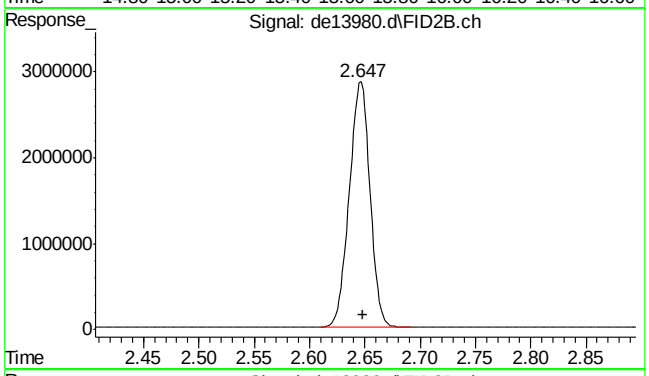
R.T.: 15.705 min
Delta R.T.: -0.002 min
Response: 4560117
Conc: 49.50 µg/ml

SGS ACCUTEST MC45538



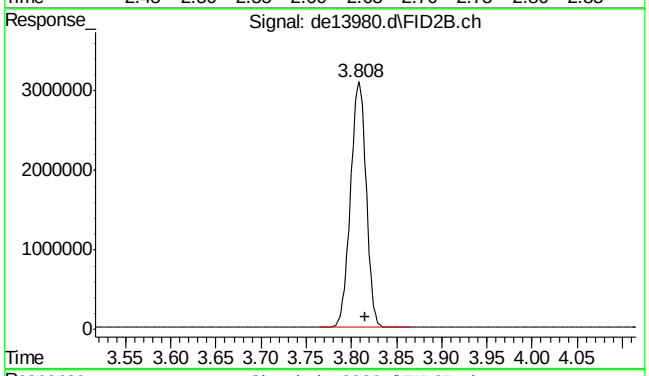
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.685 min
Response: 0
Conc: N.D.



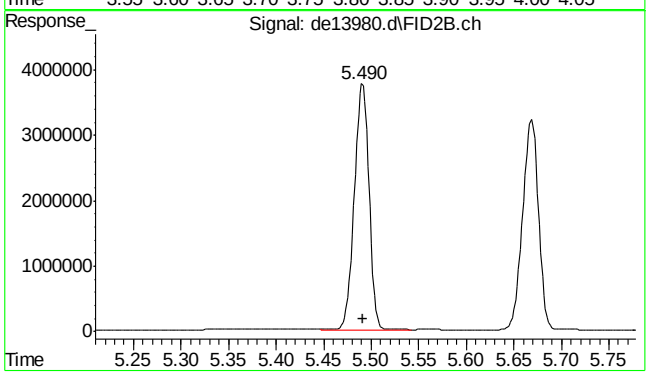
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3717378
Conc: 50.32 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3750140
Conc: 50.77 µg/ml



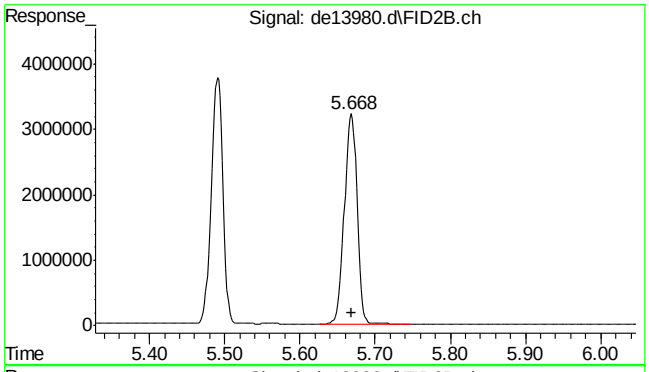
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: -0.002 min
Response: 4014734
Conc: 50.26 µg/ml

9.5.9

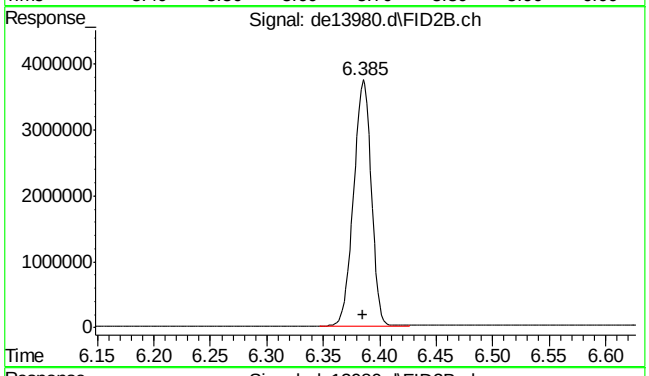
9

SGS ACCUTEST MC45538



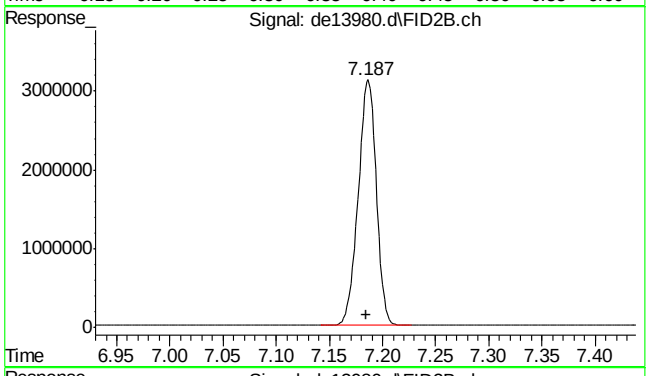
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 3749319
Conc: 50.75 µg/ml



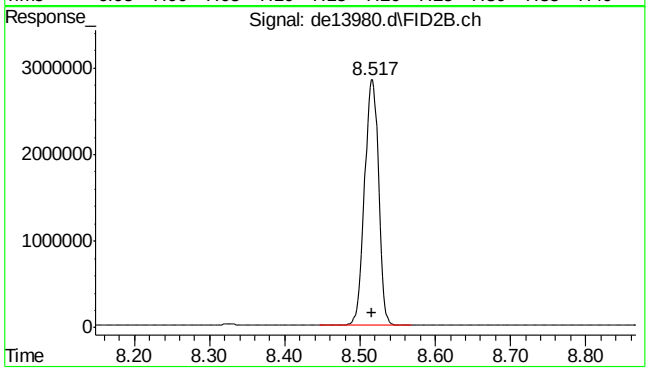
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4009880
Conc: 49.77 µg/ml



#30 c-14

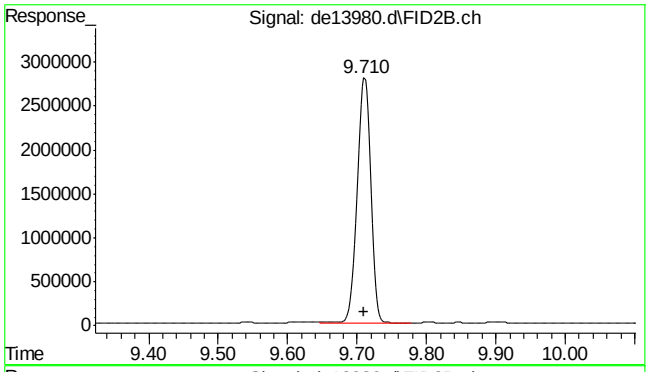
R.T.: 7.187 min
Delta R.T.: 0.002 min
Response: 3689093
Conc: 49.94 µg/ml



#31 c-16

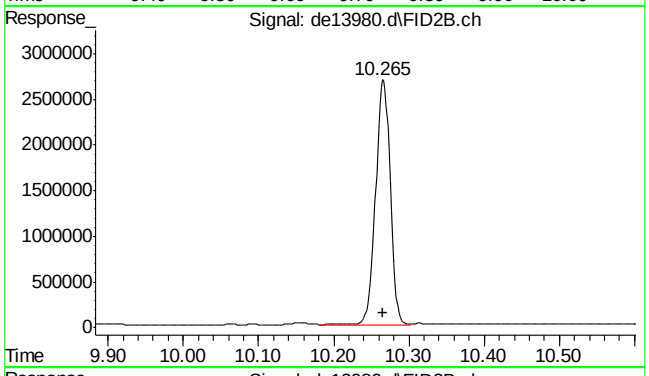
R.T.: 8.517 min
Delta R.T.: 0.002 min
Response: 3657596
Conc: 49.51 µg/ml

SGS ACCUTEST MC45538



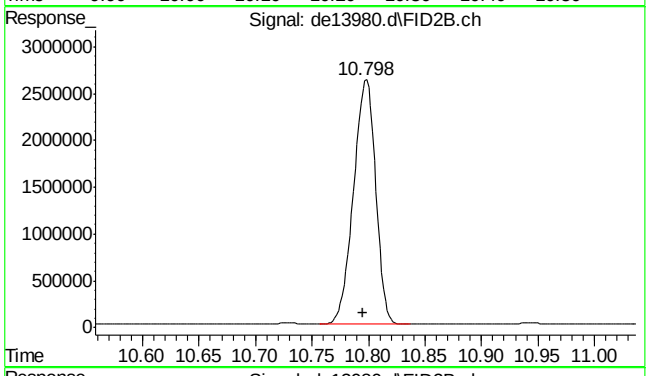
#32 c-18

R.T.: 9.710 min
Delta R.T.: 0.000 min
Response: 3655590
Conc: 49.49 µg/ml



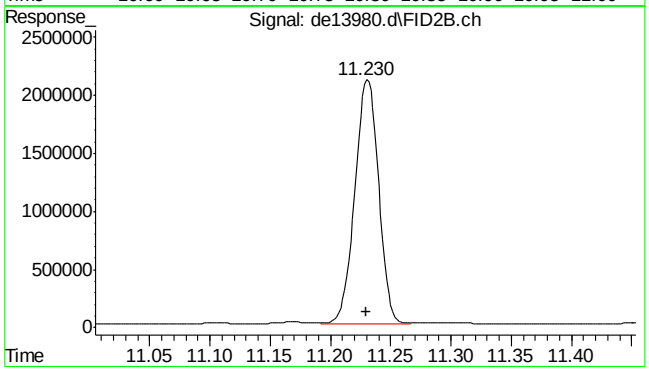
#33 c-19

R.T.: 10.265 min
Delta R.T.: 0.000 min
Response: 3635906
Conc: 54.42 µg/ml



#34 c-20

R.T.: 10.798 min
Delta R.T.: 0.003 min
Response: 3551382
Conc: 53.16 µg/ml



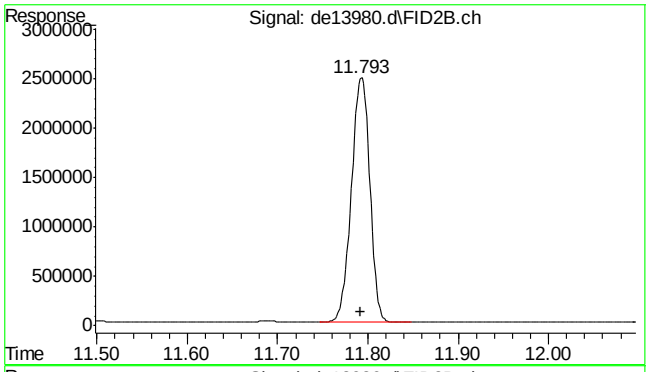
#35 1-chlorooctadecane

R.T.: 11.230 min
Delta R.T.: 0.000 min
Response: 2875325
Conc: 50.82 µg/ml

9.5.9

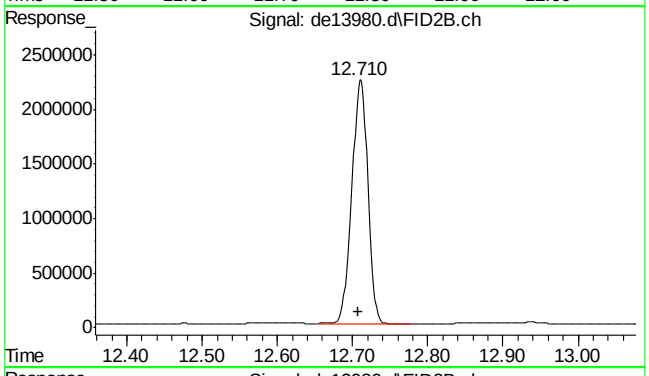
9

SGS ACCUTEST MC45538



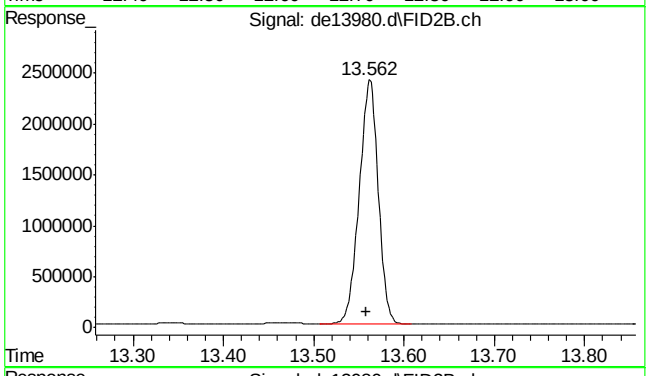
#36 c-22

R.T.: 11.793 min
Delta R.T.: 0.002 min
Response: 3539673
Conc: 52.98 µg/ml



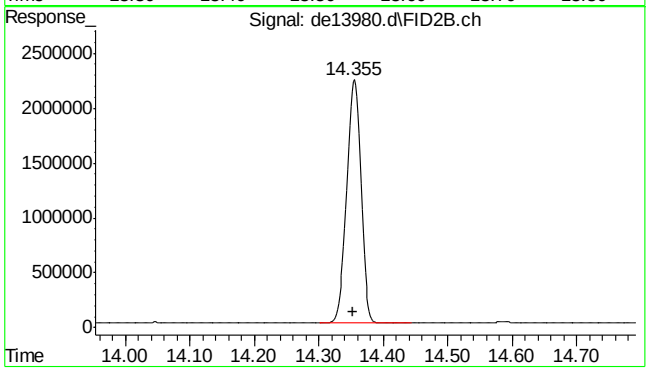
#37 c-24

R.T.: 12.710 min
Delta R.T.: 0.002 min
Response: 3302776
Conc: 49.44 µg/ml



#38 c-26

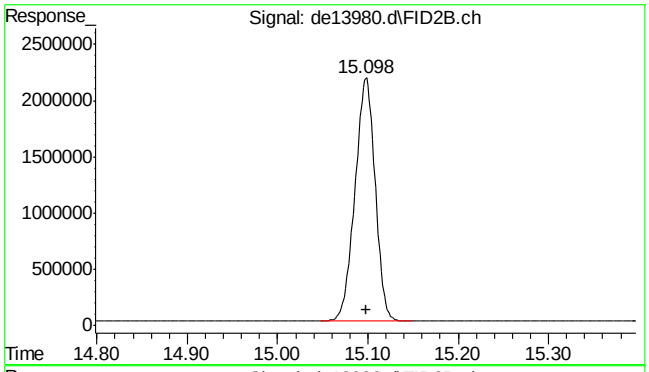
R.T.: 13.562 min
Delta R.T.: 0.003 min
Response: 3502913
Conc: 52.43 µg/ml



#39 c-28

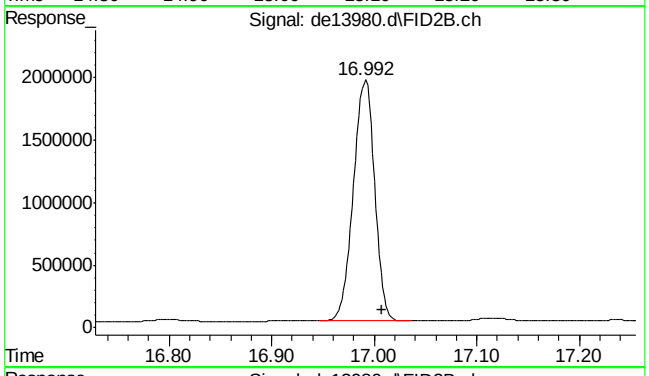
R.T.: 14.355 min
Delta R.T.: 0.002 min
Response: 3383650
Conc: 50.65 µg/ml

SGS ACCUTEST MC45538



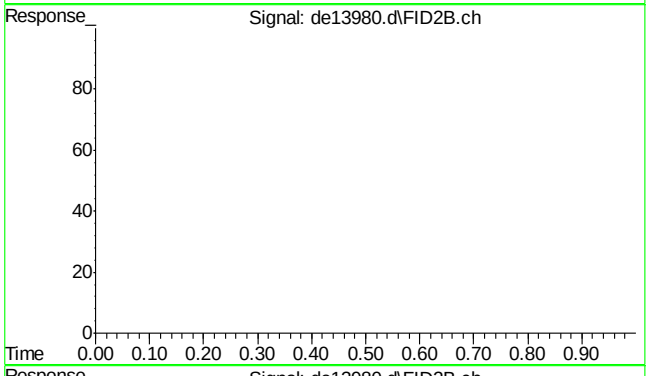
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3374168
Conc: 50.51 µg/ml



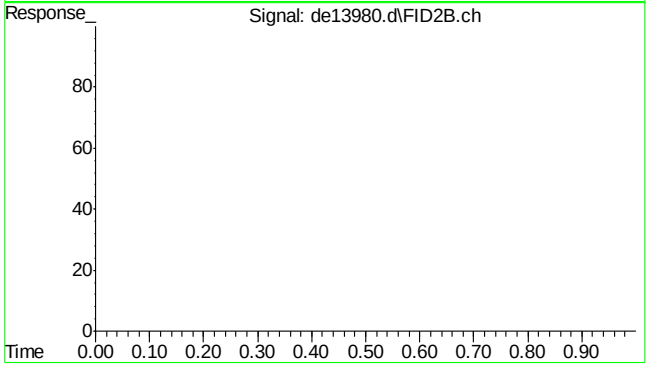
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 2773579
Conc: 41.52 µg/ml m



#42 bht

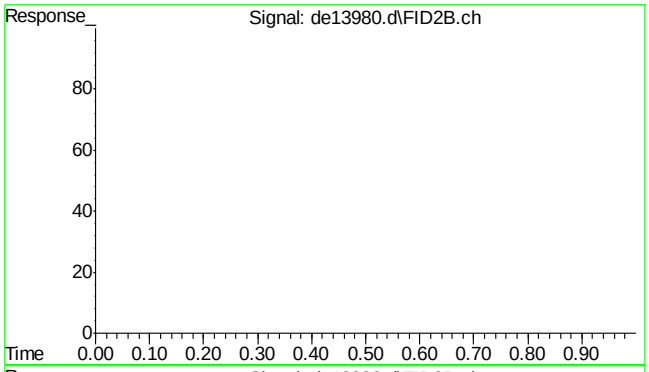
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

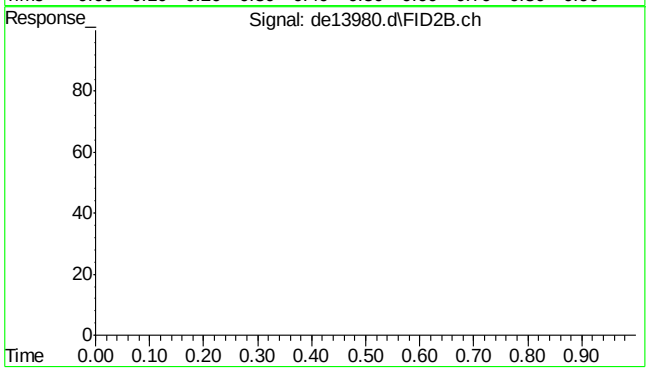
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

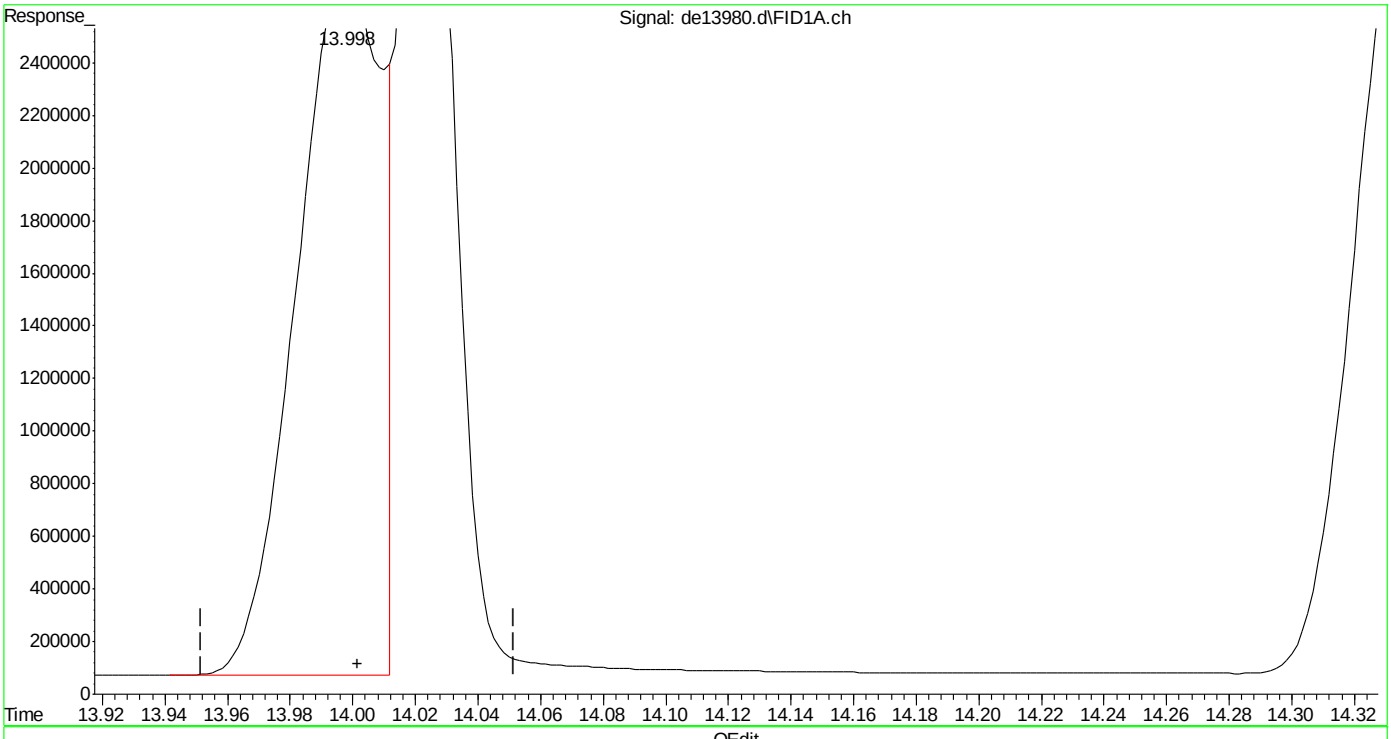
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13980.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 12:37 pm
Operator : thomasa
Sample : cc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 14:06:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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
13.998min 51.656 µg/ml
response 5114103

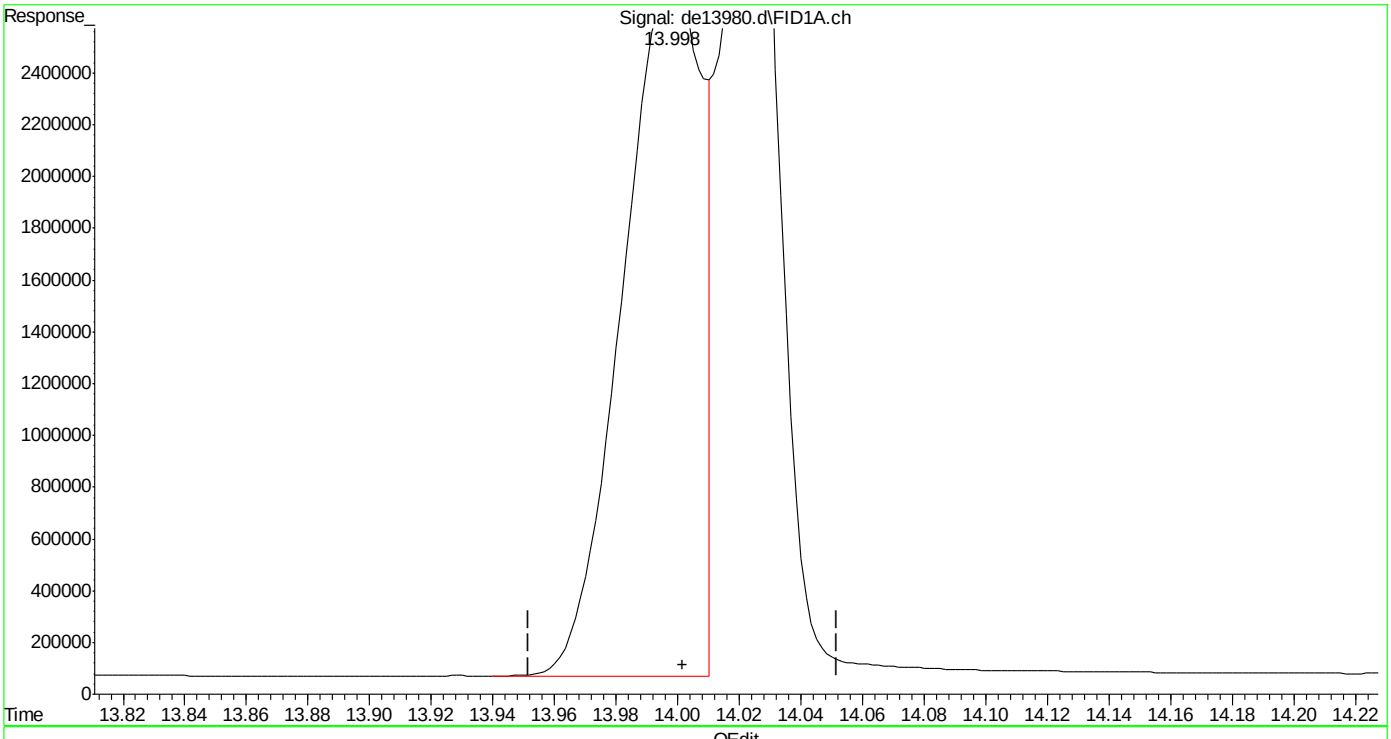
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13980.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 12:37 pm
Operator : thomasa
Sample : cc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 14:06:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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
13.998min 49.317 µg/ml m
response 4882480

(+) = Expected Retention Time
EPH160429W.M Fri Apr 29 14:07:09 2016

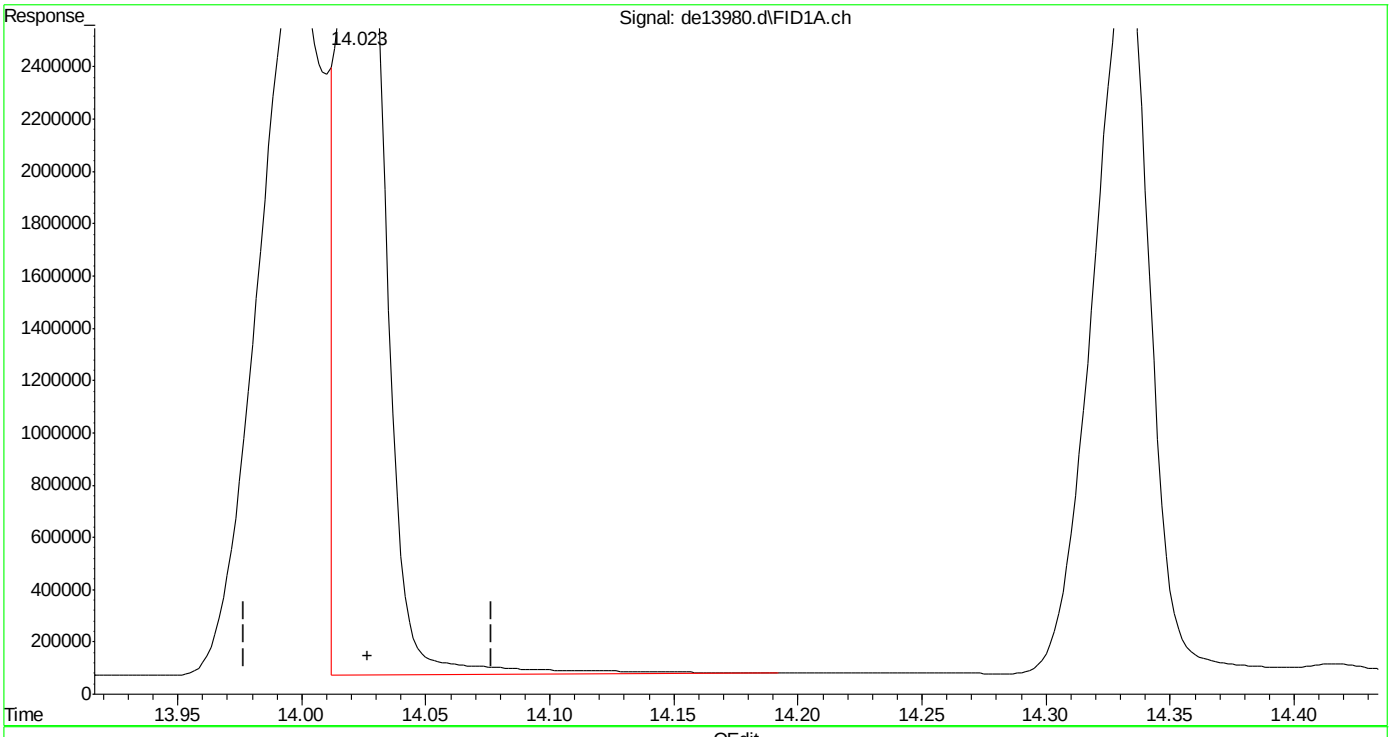
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13980.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 12:37 pm
Operator : thomasa
Sample : cc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 14:06:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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
14.023min 45.751 µg/ml
response 4323592

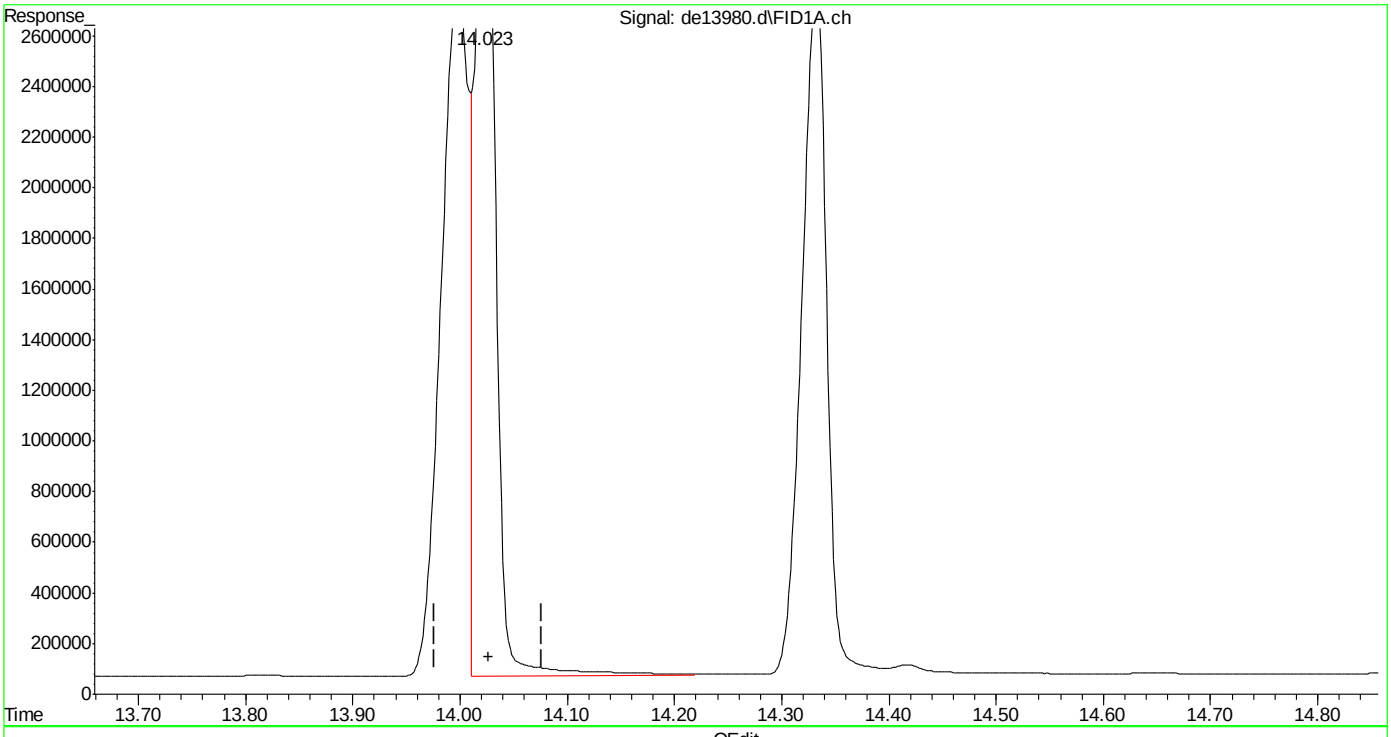
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13980.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 12:37 pm
Operator : thomasa
Sample : cc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Apr 29 14:06:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Apr 28 11:06:26 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
14.023min 48.919 µg/ml m
response 4622988

(+) = Expected Retention Time
EPH160429W.M Fri Apr 29 14:08:04 2016

SGS ACCUTEST MC45538

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/02/16 10:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 6:04 pm
Operator : thomasa
Sample : ecc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:09:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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	6.710	4150215	44.999 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 225.00%#		
6) s 2-bromonaphthalene	7.445	2768137	44.110 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 220.55%#		
11) s o-terphenyl	9.985	4739591	46.273 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 231.37%#		
35) s 1-chlorooctadecane	11.228	2886001	51.012 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 255.06%#		
Target Compounds			
2) naphthalene	5.258	4564501	44.255 µg/ml
3) 2-methylnaphthalene	6.158	4531293	44.215 µg/ml
5) acenaphthylene	7.275	4586993	45.596 µg/ml
7) acenaphthene	7.518	4753833	45.986 µg/ml
8) fluorene	8.165	4621081	45.498 µg/ml
9) phenanthrene	9.350	4606202	45.264 µg/ml
10) anthracene	9.407	4415130	45.513 µg/ml
12) fluoranthene	10.858	4621773	46.245 µg/ml
13) pyrene	11.118	4742398	46.740 µg/ml
14) benzo(a)anthracene	12.685	4566427	47.235 µg/mlm
15) chrysene	12.732	4781841	49.125 µg/mlm
16) benzo(B)fluoranthene	13.992	4729740	47.774 µg/mlm
17) benzo(k)fluoranthene	14.020	4624872	48.939 µg/ml
18) benzo(a)pyrene	14.328	4477427	48.438 µg/ml
19) indeno(1,2,3-cd)pyrene	15.472	3752219	39.640 µg/ml
20) dibenzo(ah)anthracene	15.508	4214089	46.107 µg/ml
21) benzo(ghi)perylene	15.697	4744911	51.506 µg/ml
25) h c-9	2.648	3814696	51.639 µg/mlm
26) h c-10	3.815	3862689	52.289 µg/ml
27) naphthalene #2	5.492	4102510	51.363 µg/ml
28) c-12	5.668	3816491	51.663 µg/ml
29) 2-methylnaphthalene #2	6.385	4090815	50.776 µg/ml
30) c-14	7.185	3769182	51.023 µg/ml
31) c-16	8.515	3705019	50.154 µg/ml
32) c-18	9.710	3678584	49.797 µg/ml
33) c-19	10.265	3646629	54.585 µg/ml
34) c-20	10.795	3573721	53.494 µg/ml
36) c-22	11.792	3539017	52.974 µg/ml
37) c-24	12.708	3299743	49.393 µg/ml
38) c-26	13.558	3499730	52.386 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 6:04 pm
Operator : thomasa
Sample : ecc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:09:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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	14.352	3377521	50.557 µg/ml
40) h	c-30	15.098	3364756	50.366 µg/ml
41) h	c-36	17.008	2810328	42.067 µg/mlm

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

9.5.10

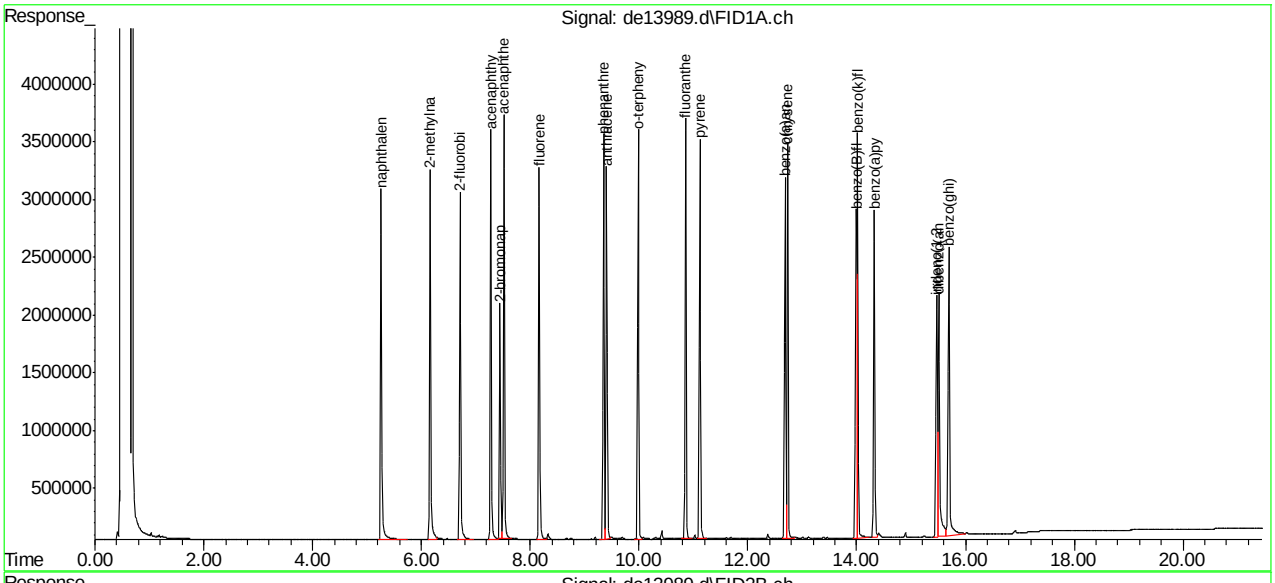
9

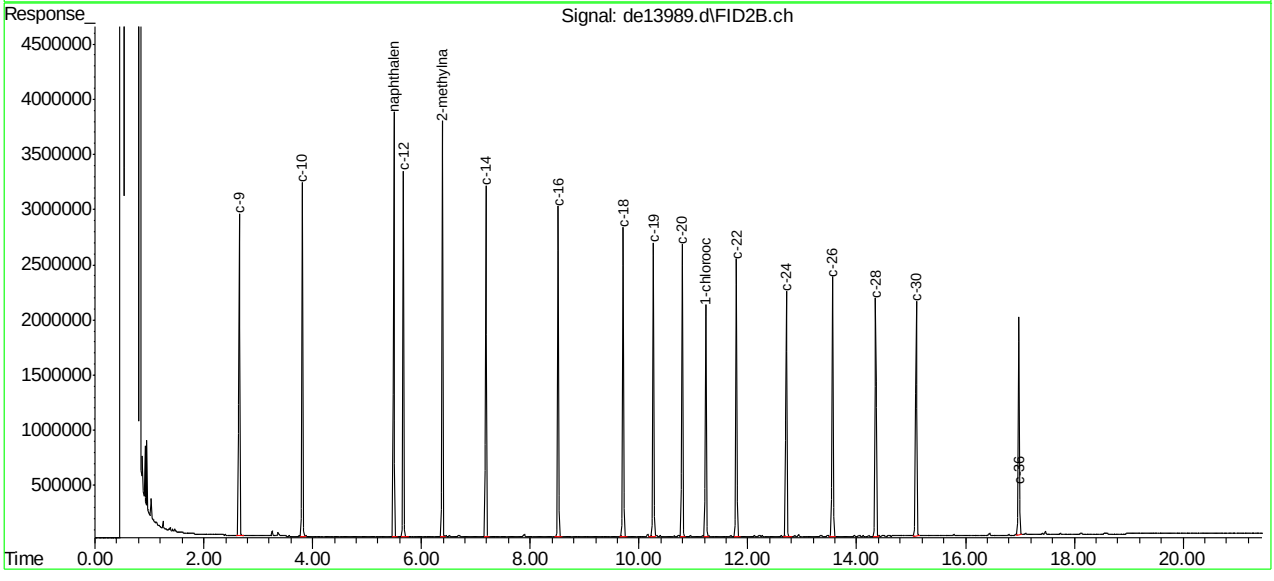
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 6:04 pm
Operator : thomasa
Sample : ecc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

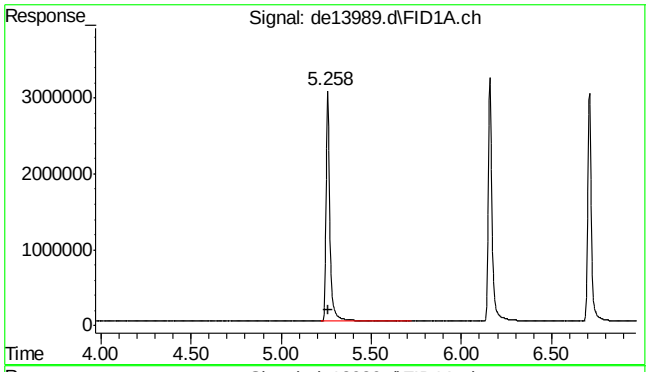
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:09:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 2016
Response via : Initial Calibration
Integrator: RTE

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



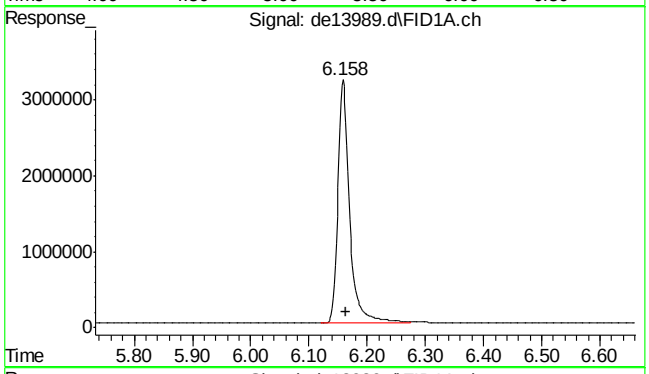


SGS ACCUTEST MC45538



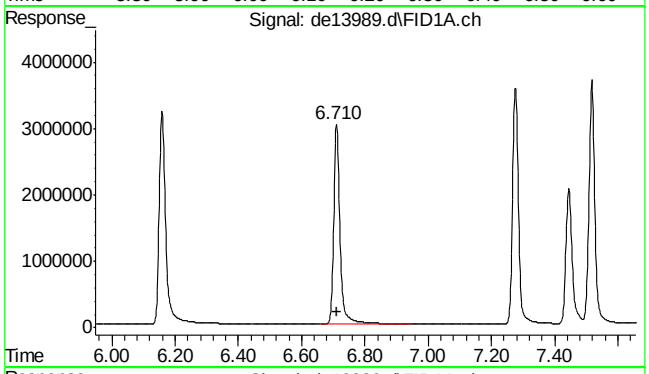
#2 naphthalene

R.T.: 5.258 min
Delta R.T.: -0.003 min
Response: 4564501
Conc: 44.26 µg/ml



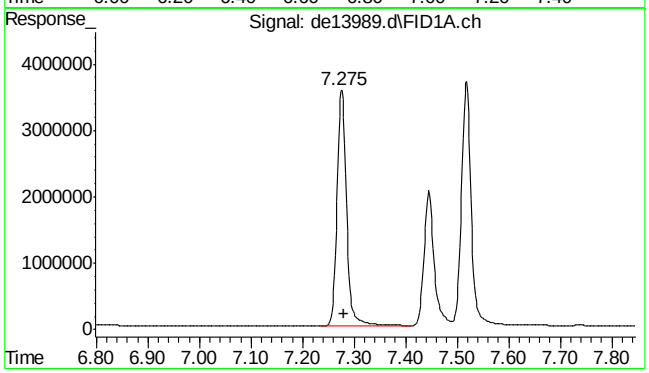
#3 2-methylnaphthalene

R.T.: 6.158 min
Delta R.T.: -0.005 min
Response: 4531293
Conc: 44.22 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.710 min
Delta R.T.: -0.003 min
Response: 4150215
Conc: 45.00 µg/ml



#5 acenaphthylene

R.T.: 7.275 min
Delta R.T.: -0.005 min
Response: 4586993
Conc: 45.60 µg/ml

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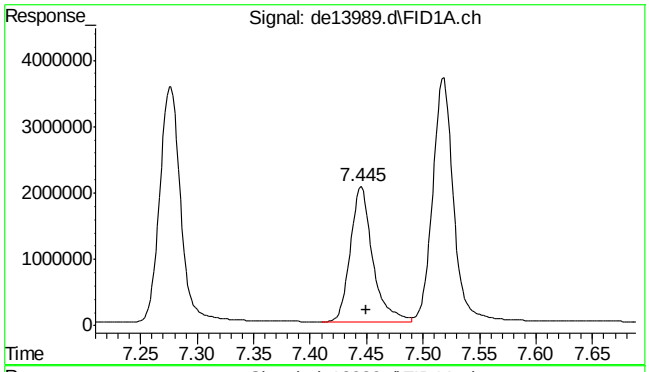
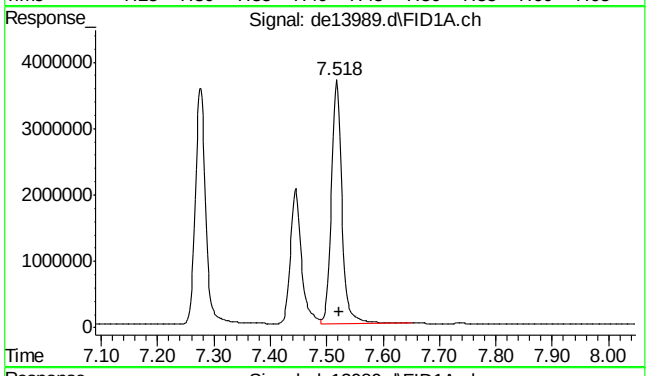


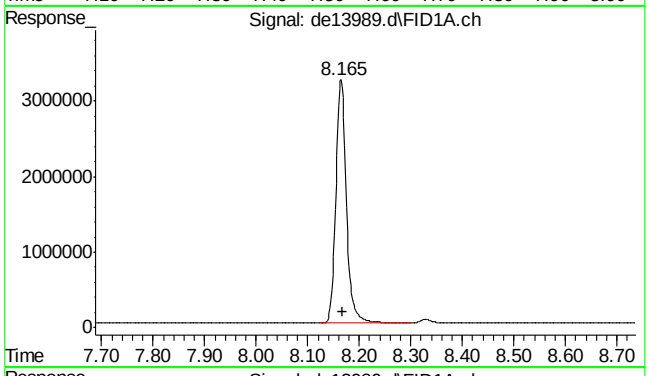
#6 2-bromonaphthalene

R.T.: 7.445 min
Delta R.T.: -0.005 min
Response: 2768137
Conc: 44.11 µg/ml



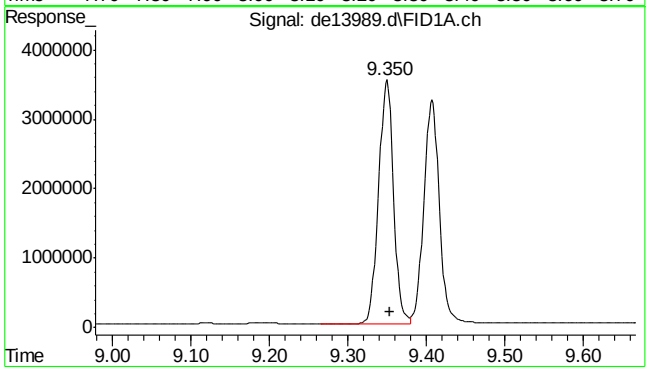
#7 acenaphthene

R.T.: 7.518 min
Delta R.T.: -0.003 min
Response: 4753833
Conc: 45.99 µg/ml



#8 fluorene

R.T.: 8.165 min
Delta R.T.: -0.003 min
Response: 4621081
Conc: 45.50 µg/ml



#9 phenanthrene

R.T.: 9.350 min
Delta R.T.: -0.003 min
Response: 4606202
Conc: 45.26 µg/ml

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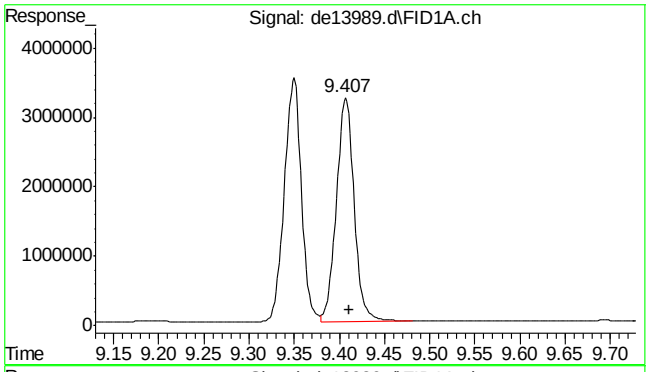
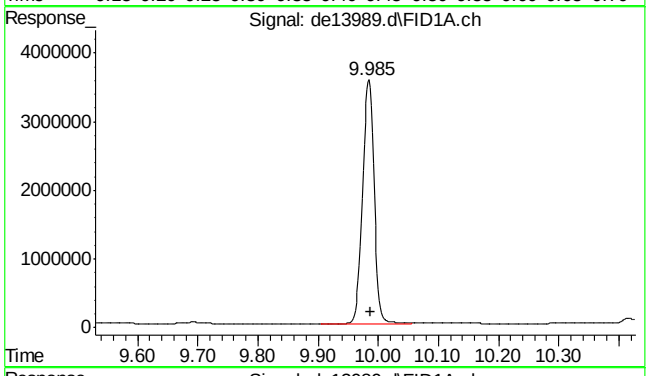


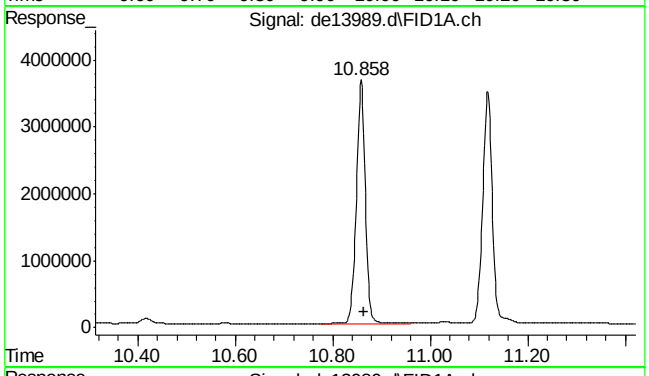
#10 anthracene

R.T.: 9.407 min
Delta R.T.: -0.005 min
Response: 4415130
Conc: 45.51 µg/ml



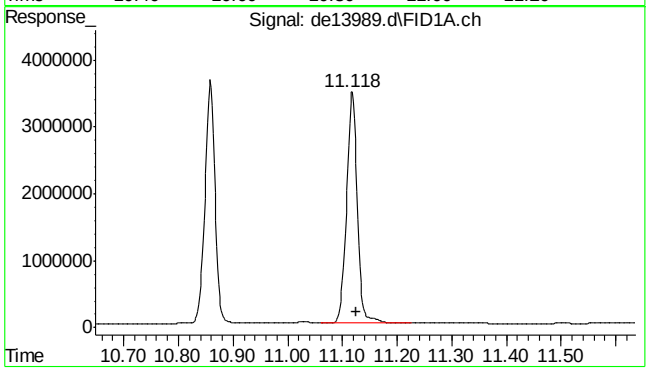
#11 o-terphenyl

R.T.: 9.985 min
Delta R.T.: -0.003 min
Response: 4739591
Conc: 46.27 µg/ml



#12 fluoranthene

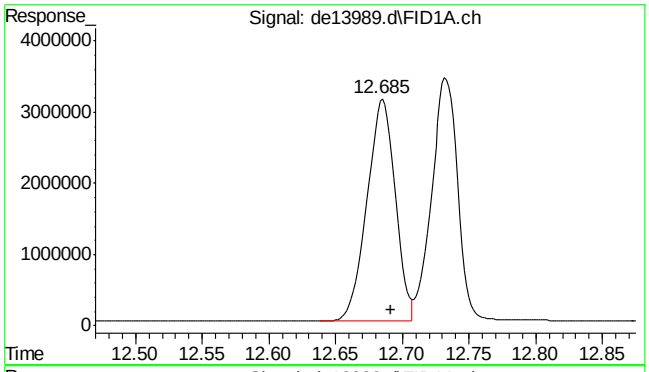
R.T.: 10.858 min
Delta R.T.: -0.005 min
Response: 4621773
Conc: 46.24 µg/ml



#13 pyrene

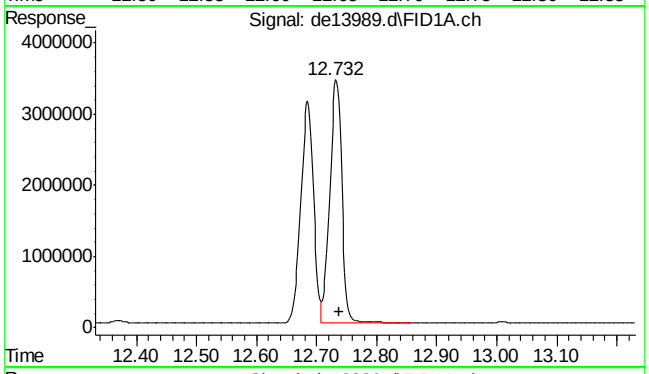
R.T.: 11.118 min
Delta R.T.: -0.007 min
Response: 4742398
Conc: 46.74 µg/ml

SGS ACCUTEST MC45538



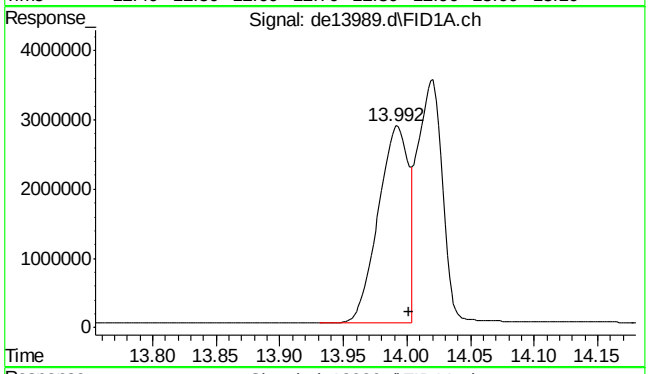
#14 benzo(a)anthracene

R.T.: 12.685 min
Delta R.T.: -0.007 min
Response: 4566427
Conc: 47.23 µg/ml m



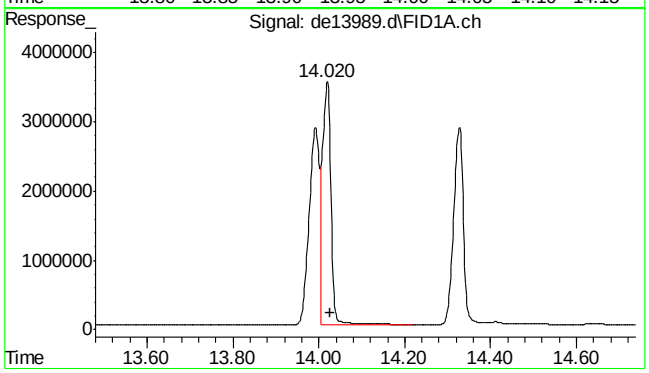
#15 chrysene

R.T.: 12.732 min
Delta R.T.: -0.007 min
Response: 4781841
Conc: 49.12 µg/ml m



#16 benzo(B)fluoranthene

R.T.: 13.992 min
Delta R.T.: -0.010 min
Response: 4729740
Conc: 47.77 µg/ml m



#17 benzo(k)fluoranthene

R.T.: 14.020 min
Delta R.T.: -0.007 min
Response: 4624872
Conc: 48.94 µg/ml

9.5.10

9

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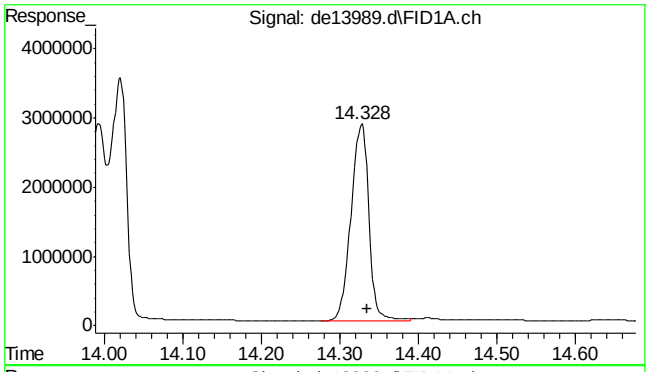
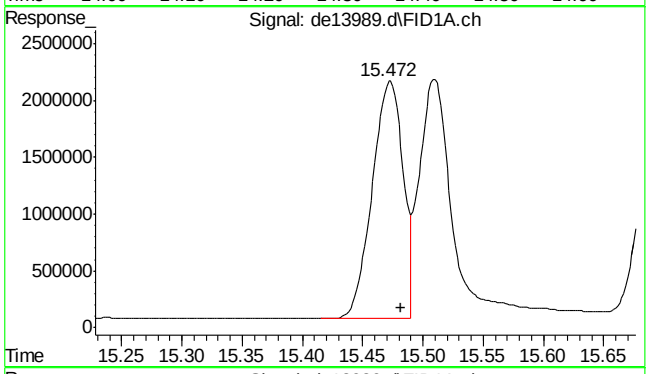


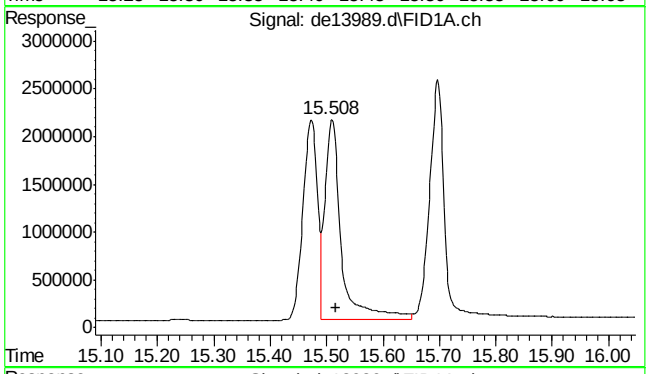
#18 benzo(a)pyrene

R.T.: 14.328 min
Delta R.T.: -0.007 min
Response: 4477427
Conc: 48.44 µg/ml



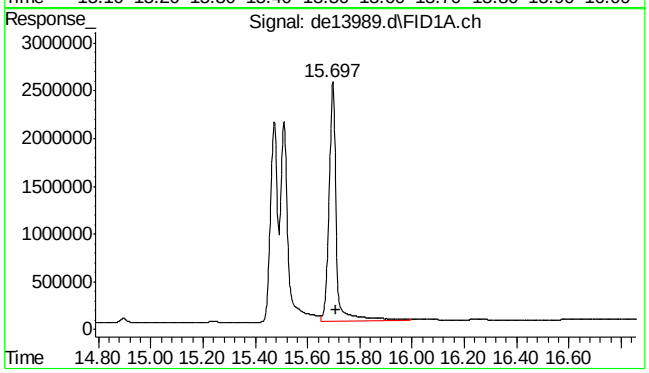
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.472 min
Delta R.T.: -0.010 min
Response: 3752219
Conc: 39.64 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.508 min
Delta R.T.: -0.008 min
Response: 4214089
Conc: 46.11 µg/ml



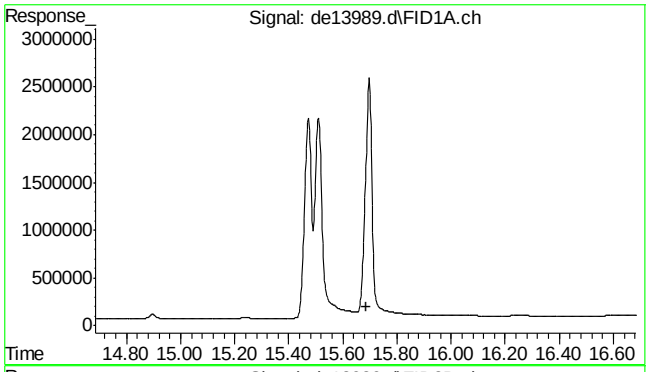
#21 benzo(ghi)perylene

R.T.: 15.697 min
Delta R.T.: -0.010 min
Response: 4744911
Conc: 51.51 µg/ml

9.5.10

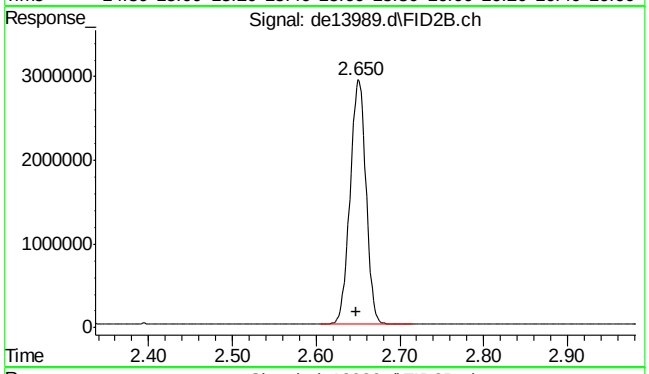
9

SGS ACCUTEST MC45538



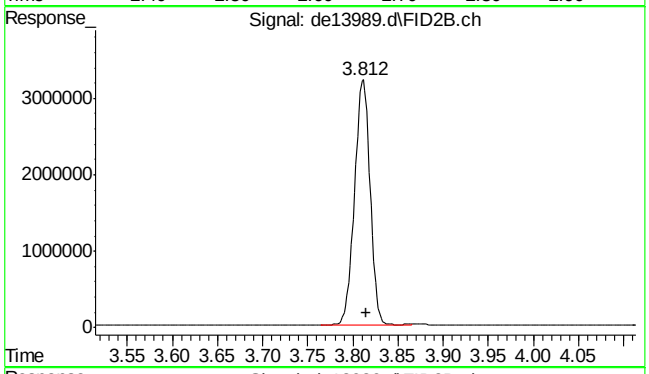
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.685 min
Response: 0
Conc: N.D.



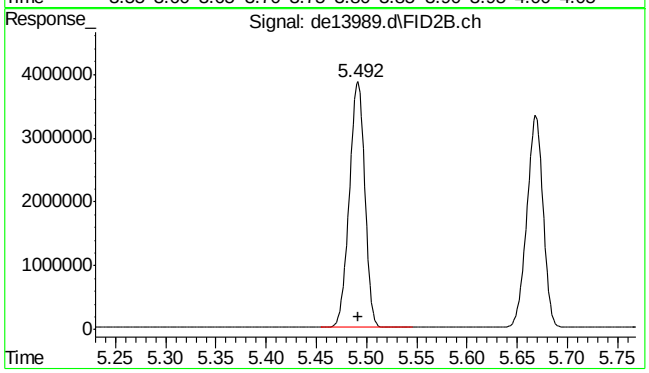
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3814696
Conc: 51.64 µg/ml m



#26 c-10

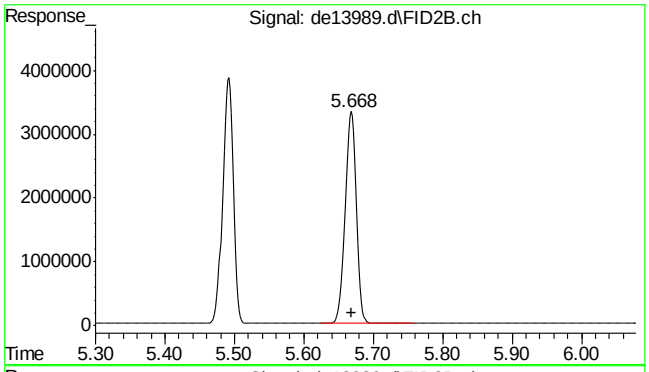
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3862689
Conc: 52.29 µg/ml



#27 naphthalene #2

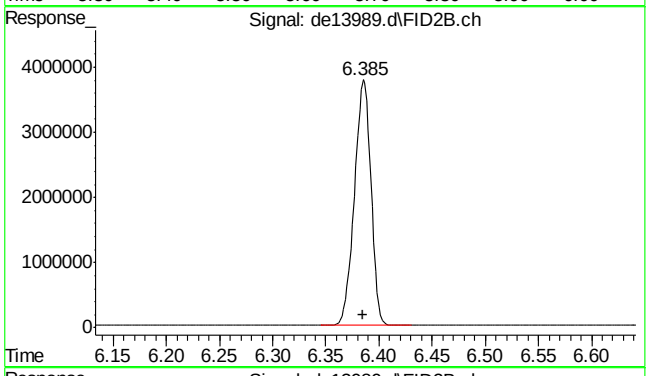
R.T.: 5.492 min
Delta R.T.: 0.000 min
Response: 4102510
Conc: 51.36 µg/ml

SGS ACCUTEST MC45538



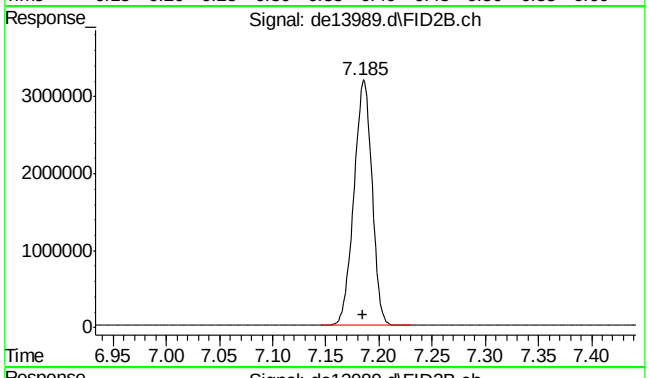
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 3816491
Conc: 51.66 µg/ml



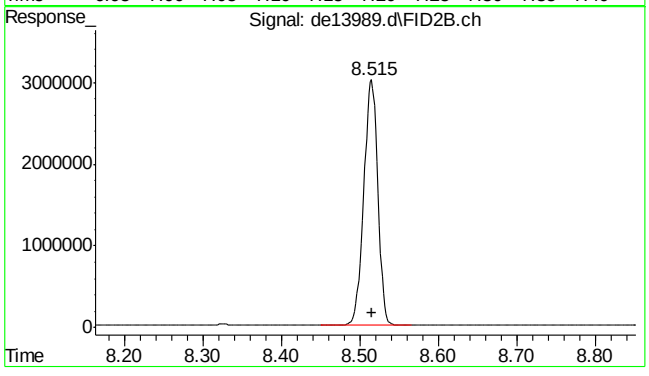
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4090815
Conc: 50.78 µg/ml



#30 c-14

R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 3769182
Conc: 51.02 µg/ml



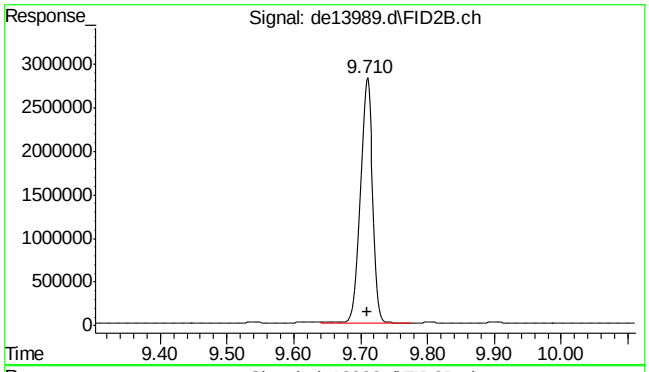
#31 c-16

R.T.: 8.515 min
Delta R.T.: 0.000 min
Response: 3705019
Conc: 50.15 µg/ml

9.5.10

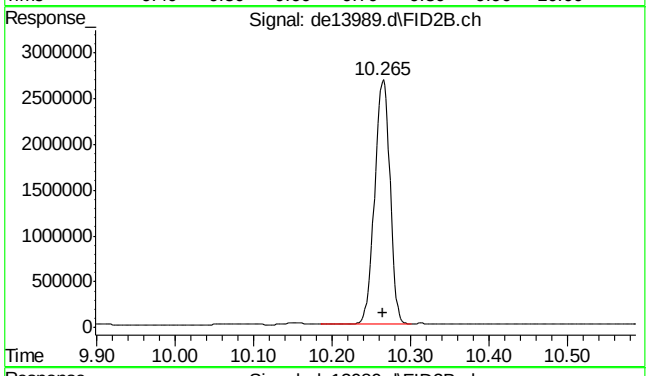
9

SGS ACCUTEST MC45538



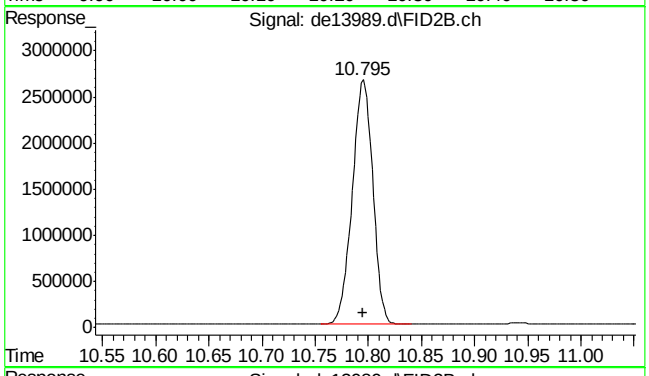
#32 c-18

R.T.: 9.710 min
Delta R.T.: 0.000 min
Response: 3678584
Conc: 49.80 µg/ml



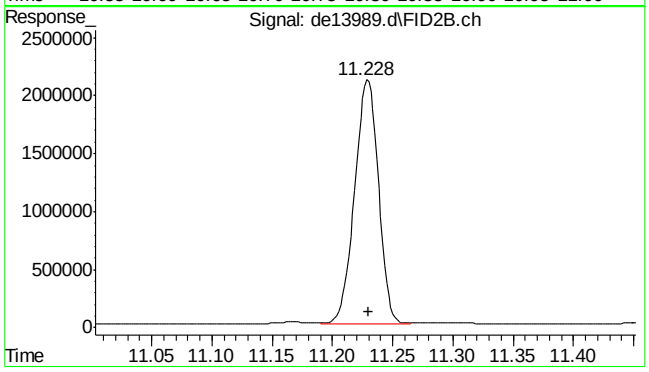
#33 c-19

R.T.: 10.265 min
Delta R.T.: 0.000 min
Response: 3646629
Conc: 54.59 µg/ml



#34 c-20

R.T.: 10.795 min
Delta R.T.: 0.000 min
Response: 3573721
Conc: 53.49 µg/ml



#35 1-chlorooctadecane

R.T.: 11.228 min
Delta R.T.: -0.002 min
Response: 2886001
Conc: 51.01 µg/ml

9.5.10

9

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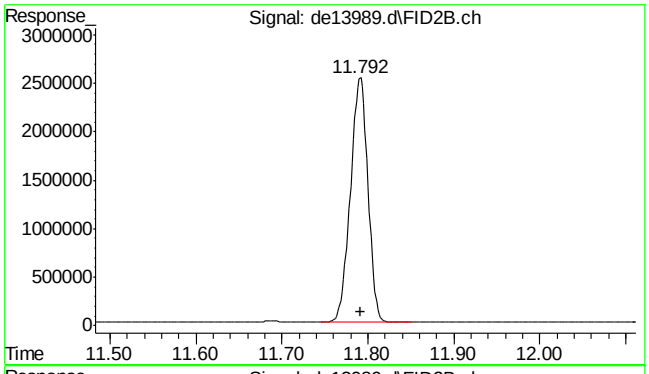
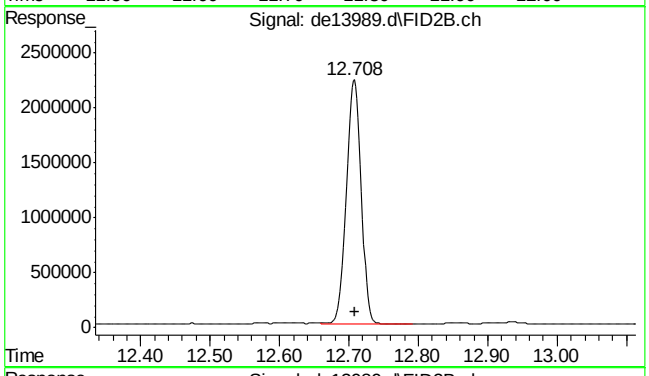


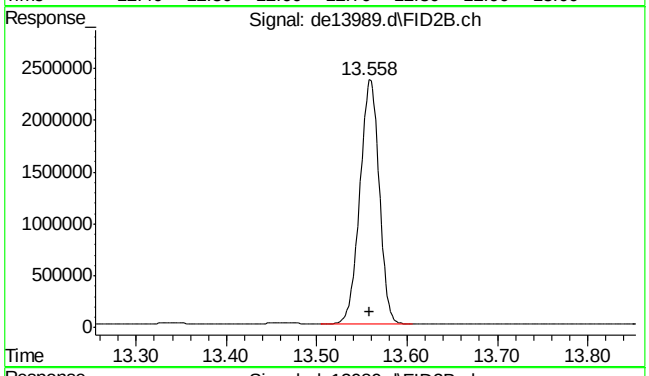
#36 c-22

R.T.: 11.792 min
Delta R.T.: 0.000 min
Response: 3539017
Conc: 52.97 µg/ml



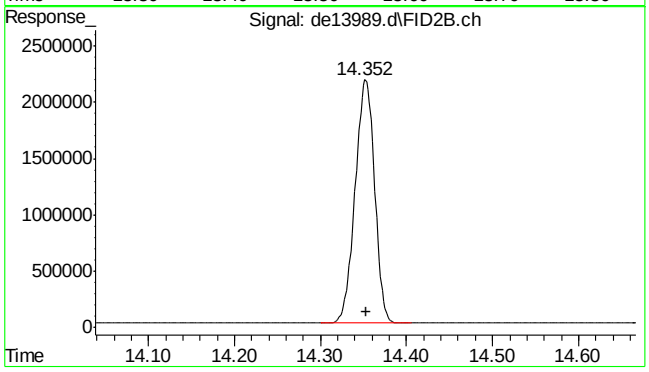
#37 c-24

R.T.: 12.708 min
Delta R.T.: 0.000 min
Response: 3299743
Conc: 49.39 µg/ml



#38 c-26

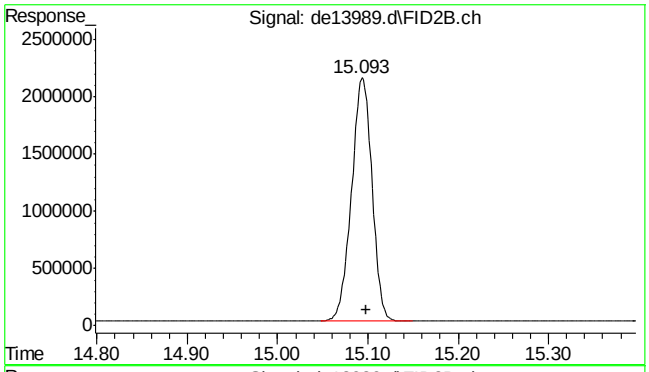
R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3499730
Conc: 52.39 µg/ml



#39 c-28

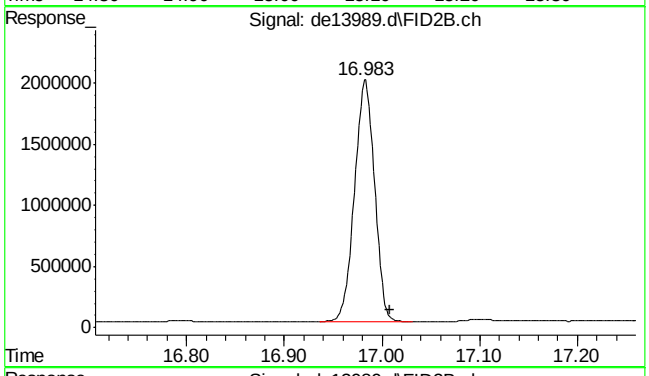
R.T.: 14.352 min
Delta R.T.: -0.002 min
Response: 3377521
Conc: 50.56 µg/ml

SGS ACCUTEST MC45538



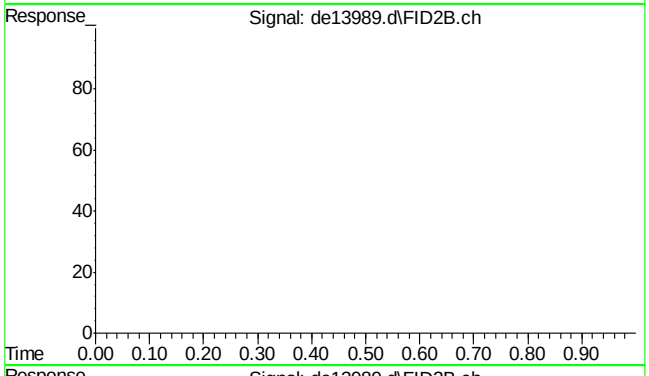
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3364756
Conc: 50.37 µg/ml



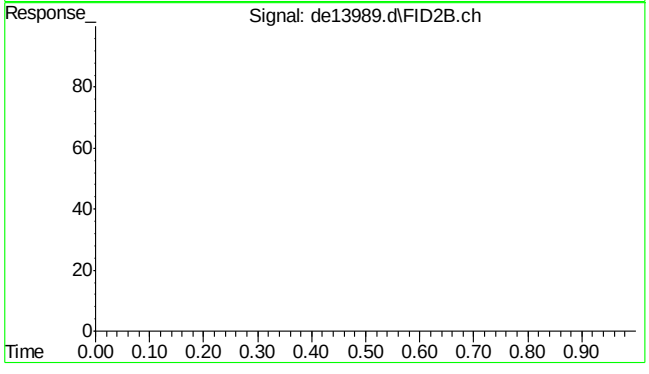
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 2810328
Conc: 42.07 µg/ml m



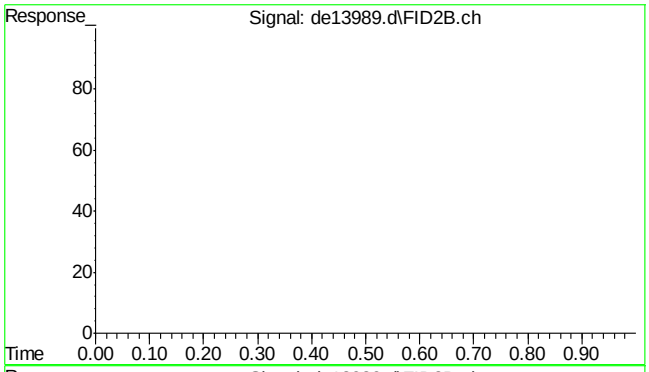
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



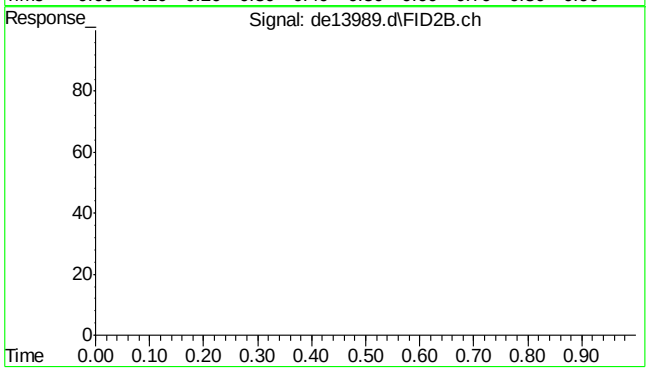
#43 bht

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

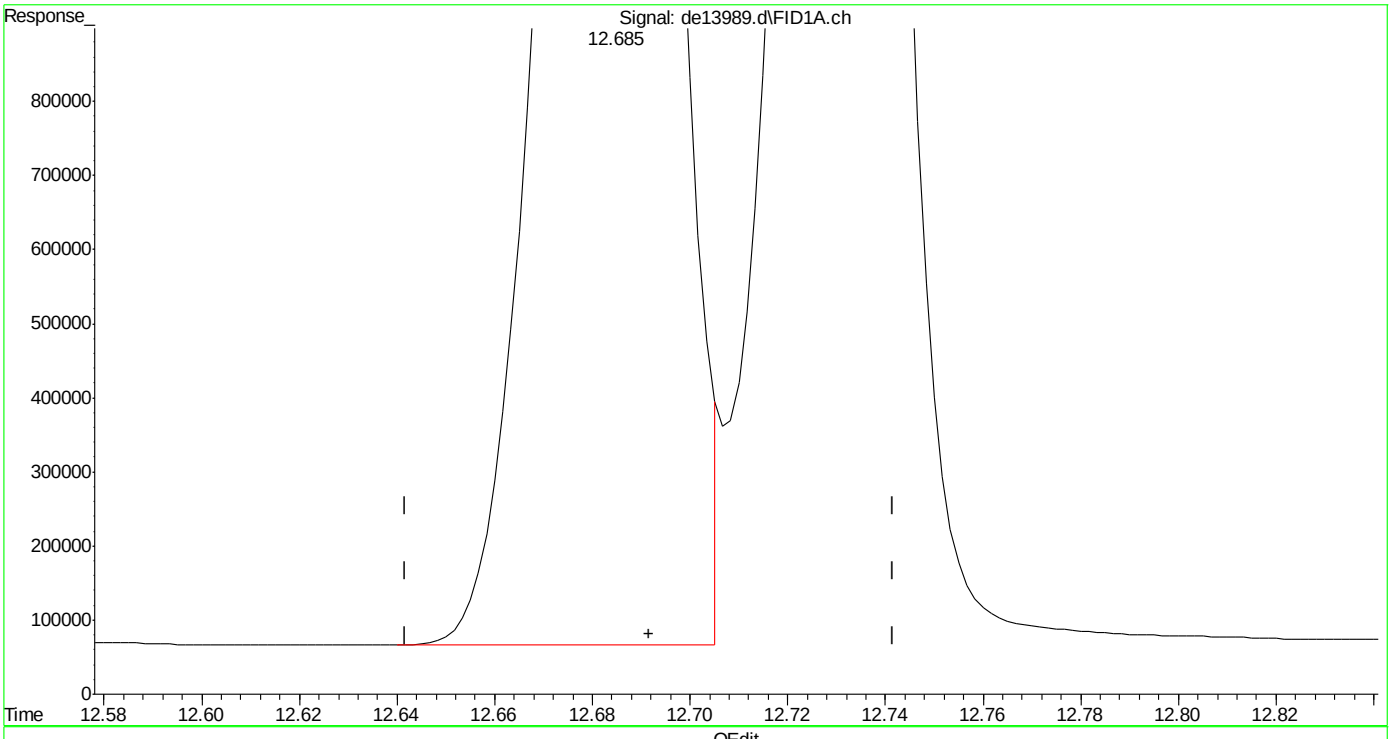
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 6:04 pm
Operator : thomasa
Sample : ecc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
12.685min 46.898 µg/ml
response 4533881

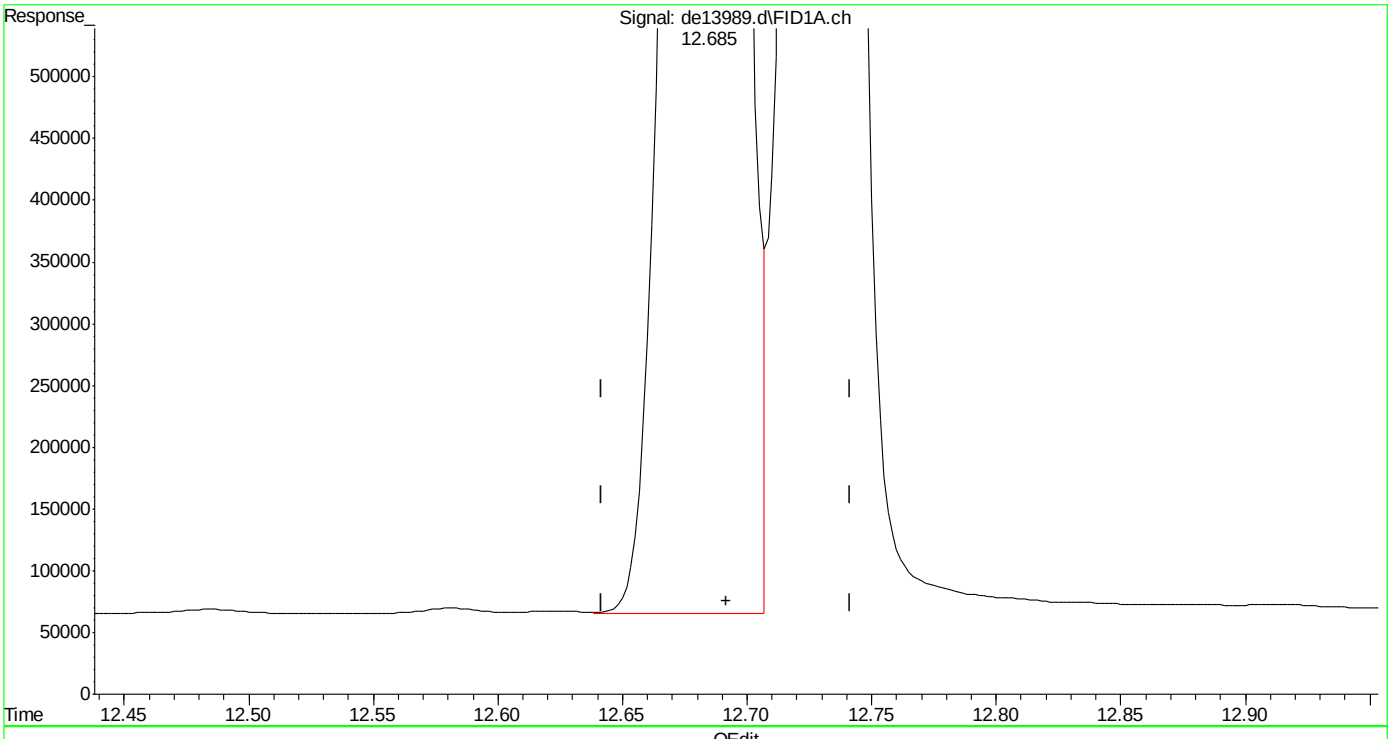
(+) = Expected Retention Time
EPH160429W.M Mon May 02 09:07:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 6:04 pm
Operator : thomasa
Sample : ecc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
12.685min 47.235 µg/ml m
response 4566427

(+) = Expected Retention Time
EPH160429W.M Mon May 02 09:07:26 2016

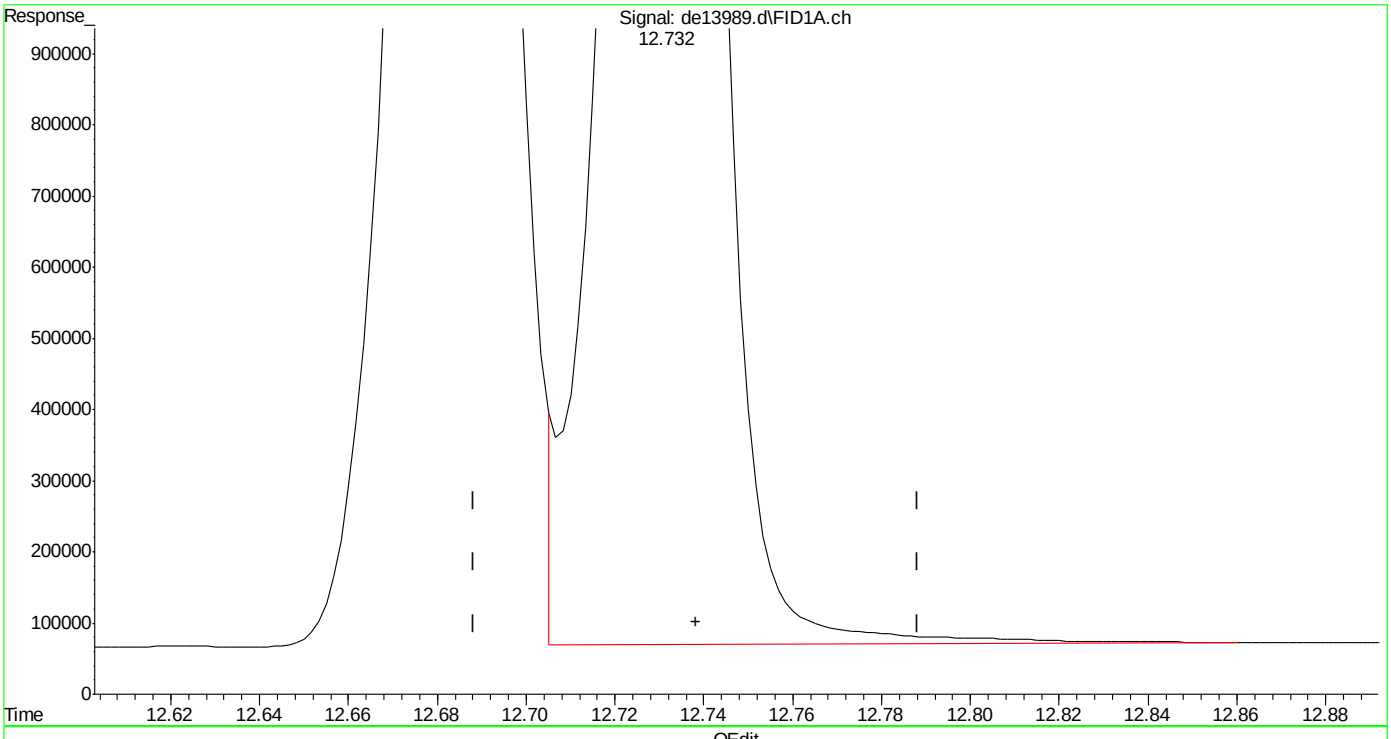
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 6:04 pm
Operator : thomasa
Sample : ecc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.732min 48.981 µg/ml
response 4767849

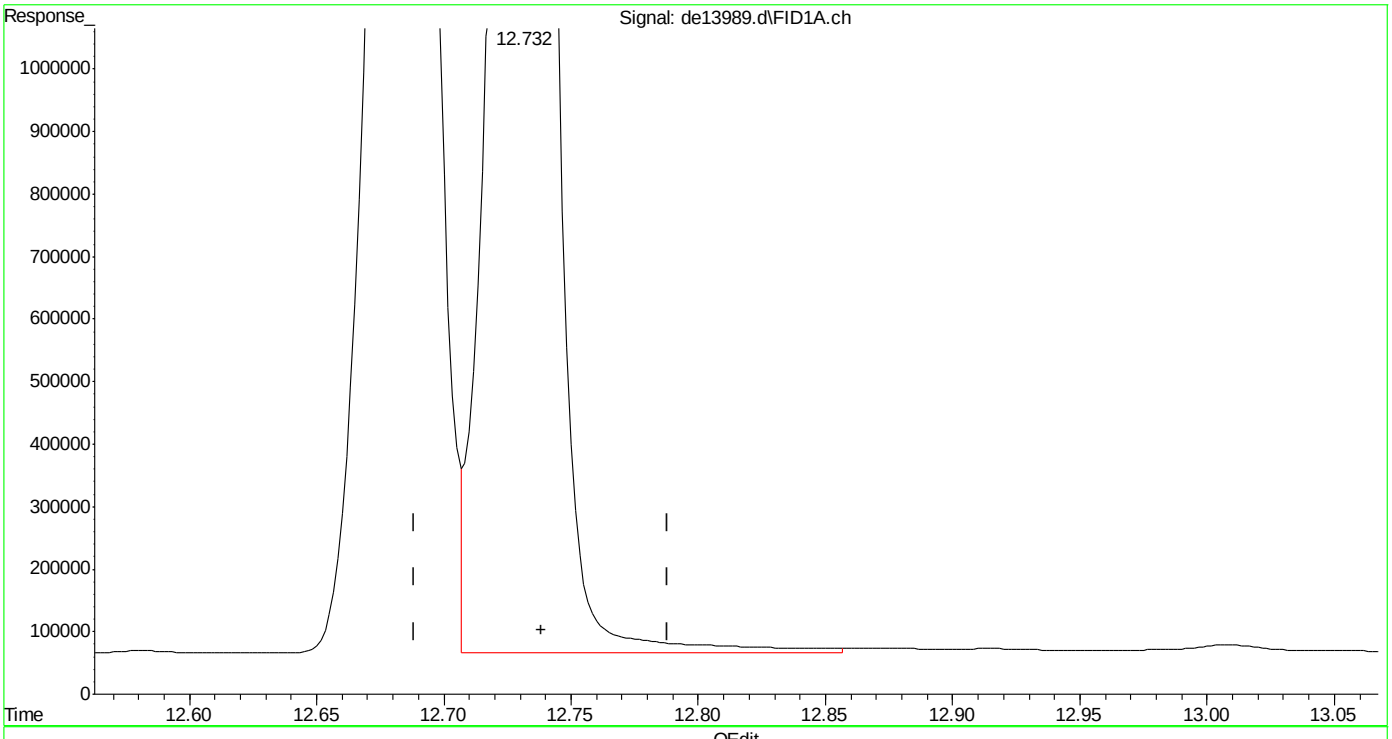
(+) = Expected Retention Time
EPH160429W.M Mon May 02 09:07:30 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 6:04 pm
Operator : thomasa
Sample : ecc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.732min 49.125 µg/ml m
response 4781841

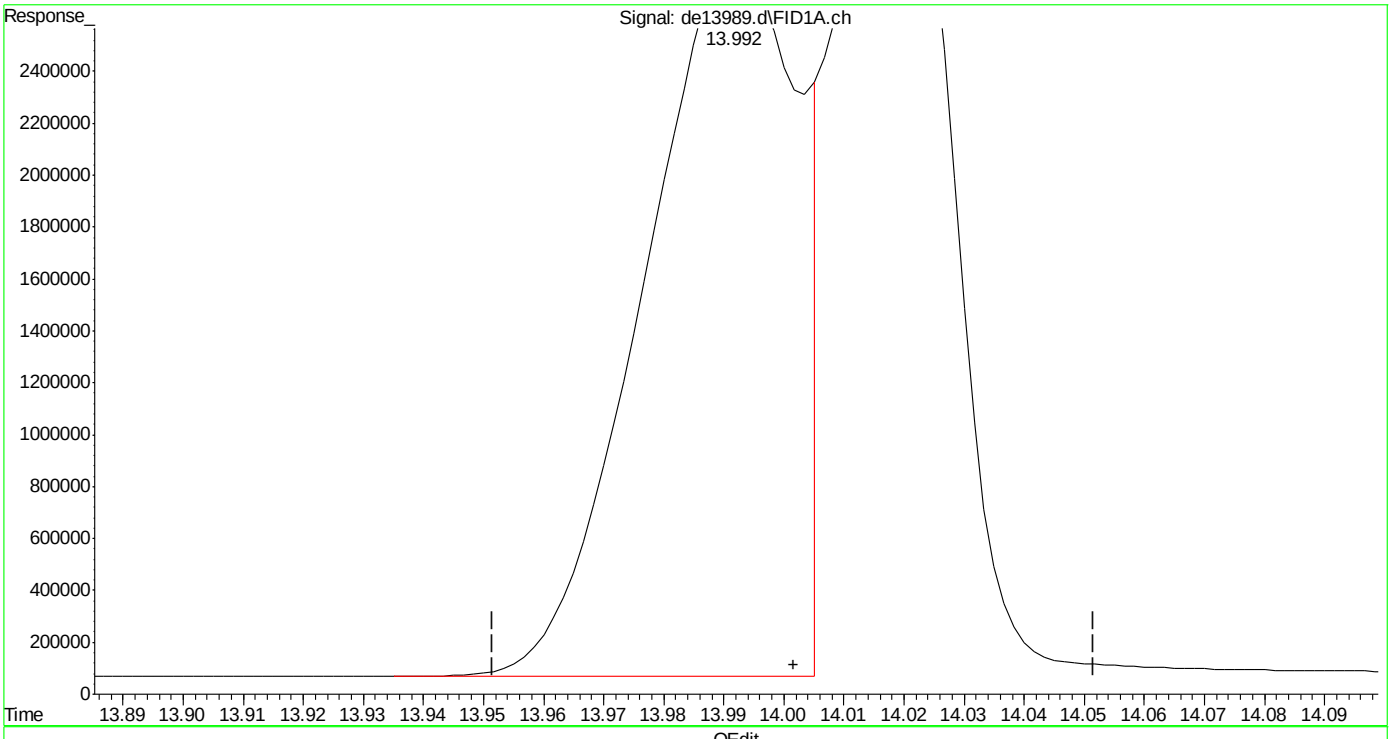
(+) = Expected Retention Time
EPH160429W.M Mon May 02 09:07:44 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 6:04 pm
Operator : thomasa
Sample : ecc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
13.992min 50.067 µg/ml
response 4956724

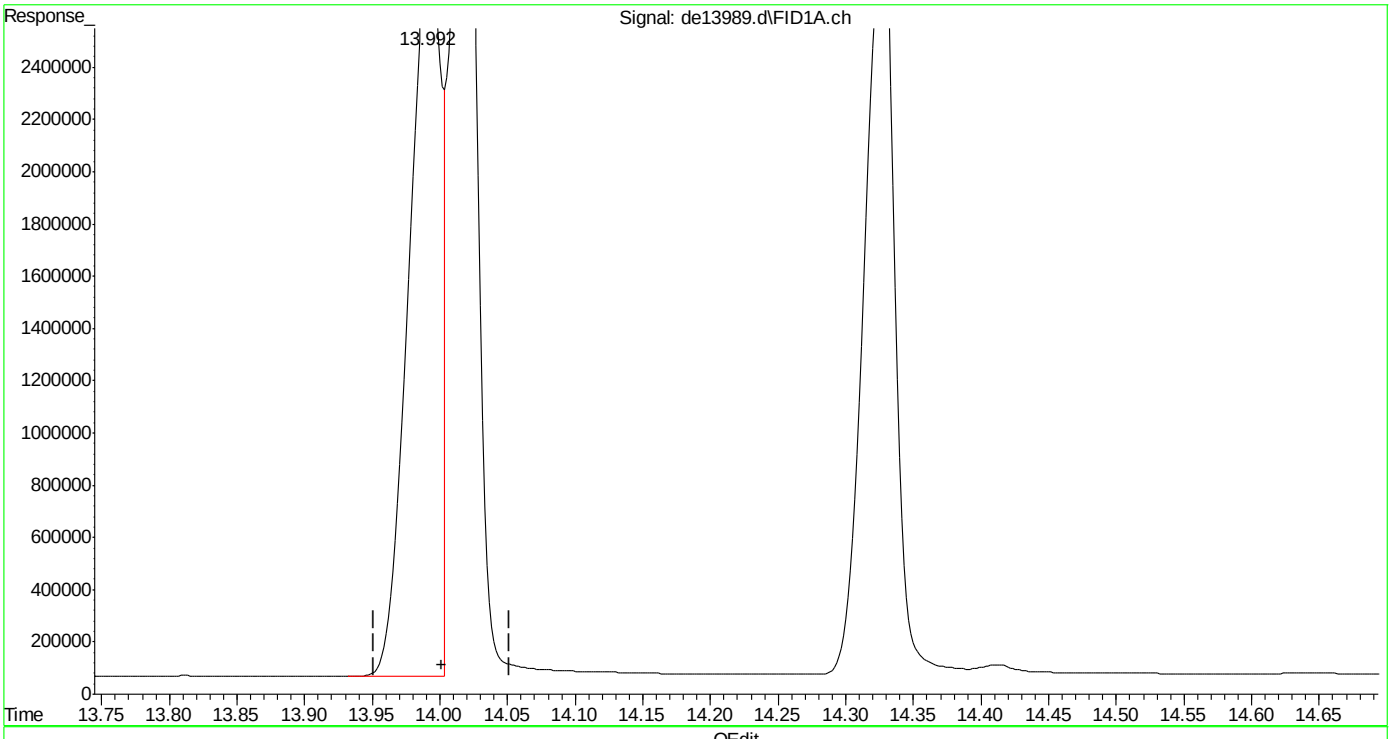
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160429EPH\
Data File : de13989.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 29 Apr 2016 6:04 pm
Operator : thomasa
Sample : ecc735-50, gde781
Misc : op47209,gde781,11,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 09:06:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160429W.M
Quant Title : BMAEPH-working method
QLast Update : Sat Apr 30 08:59:01 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
13.992min 47.774 µg/ml m
response 4729740

(+) = Expected Retention Time
EPH160429W.M Mon May 02 09:08:02 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14013.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 9:17 am
Operator : thomasa
Sample : cc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 09:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	6.692	5206903	56.456 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 282.28%#
6) s	2-bromonaphthalene	7.425	3450652	54.986 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 274.93%#
11) s	o-terphenyl	9.965	5495232	53.650 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 268.25%#
35) s	1-chlorooctadecane	11.228	2916022	51.543 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 257.72%#
	Target Compounds			
2)	naphthalene	5.242	5965594	57.840 µg/ml
3)	2-methylnaphthalene	6.140	5764057	56.245 µg/ml
5)	acenaphthylene	7.257	5638610	56.049 µg/ml
7)	acenaphthene	7.500	5834592	56.440 µg/ml
8)	fluorene	8.145	5600103	55.137 µg/ml
9)	phenanthrene	9.328	5467853	53.731 µg/ml
10)	anthracene	9.387	5259483	54.217 µg/ml
12)	fluoranthene	10.838	5293435	52.966 µg/ml
13)	pyrene	11.097	5423274	53.451 µg/ml
14)	benzo(a)anthracene	12.663	5073781	52.483 µg/ml
15)	chrysene	12.712	5092091	52.312 µg/ml
16)	benzo(B)fluoranthene	13.967	5365968	54.200 µg/ml
17)	benzo(k)fluoranthene	13.997	4875280	51.589 µg/ml
18)	benzo(a)pyrene	14.302	4884608	52.843 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.448	5070054	53.562 µg/ml
20)	dibenzo(ah)anthracene	15.487	4748405	51.953 µg/ml
21)	benzo(ghi)perylene	15.673	4843866	52.580 µg/ml
25) h	c-9	2.648	3734273	50.550 µg/mlm
26) h	c-10	3.815	3786223	51.254 µg/ml
27)	naphthalene #2	5.490	4040362	50.585 µg/ml
28)	c-12	5.668	3751475	50.783 µg/ml
29)	2-methylnaphthalene #2	6.385	4017774	49.869 µg/ml
30)	c-14	7.185	3723215	50.401 µg/ml
31)	c-16	8.513	3691958	49.978 µg/ml
32)	c-18	9.708	3689513	49.945 µg/ml
33)	c-19	10.263	3676148	55.027 µg/ml
34)	c-20	10.793	3607664	54.002 µg/ml
36)	c-22	11.790	3580275	53.592 µg/ml
37)	c-24	12.707	3360250	50.298 µg/ml
38)	c-26	13.558	3576973	53.542 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14013.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 9:17 am
Operator : thomasa
Sample : cc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 09:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	14.350	3455925	51.730	µg/ml
40) h	c-30	15.098	3466700	51.892	µg/ml
41) h	c-36	17.008	2893762	43.316	µg/mlm

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

9.5.11

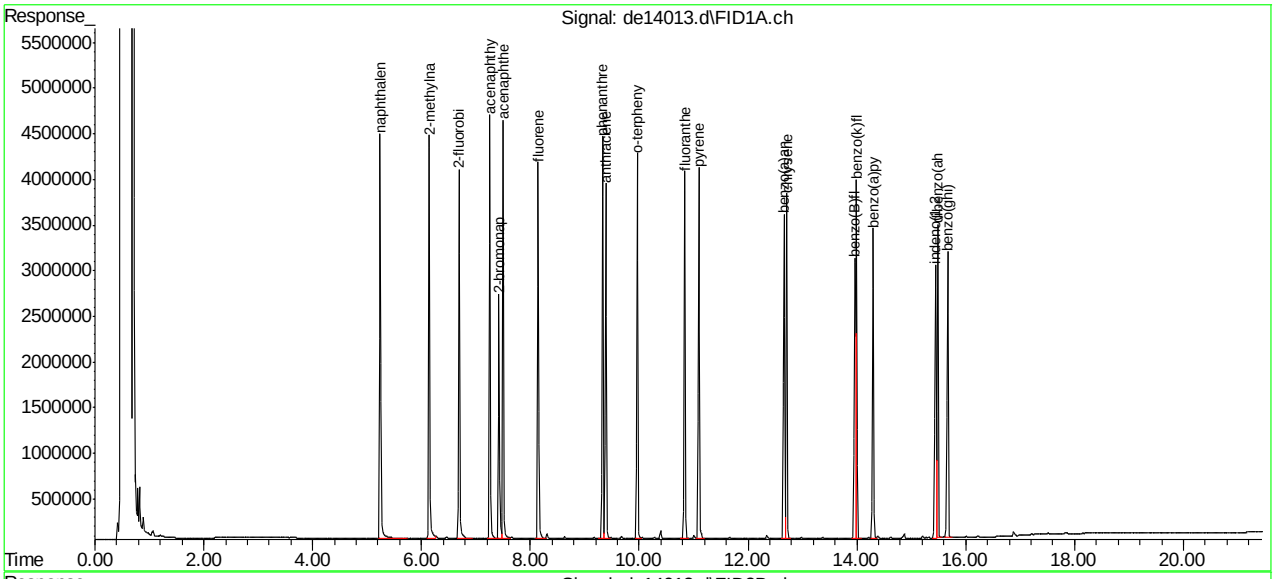
9

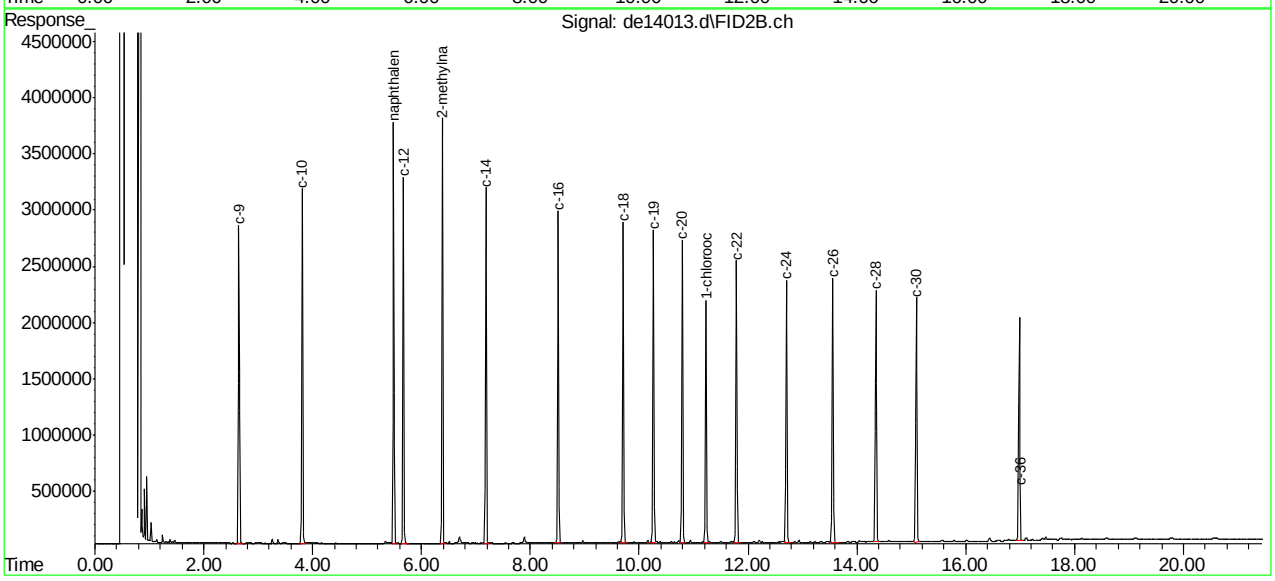
Quantitation Report (QT Reviewed)

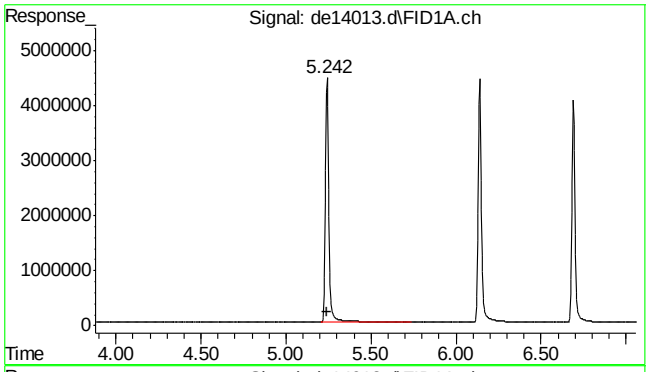
Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14013.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 9:17 am
Operator : thomasa
Sample : cc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 09:52:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 2016
Response via : Initial Calibration
Integrator: RTE

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

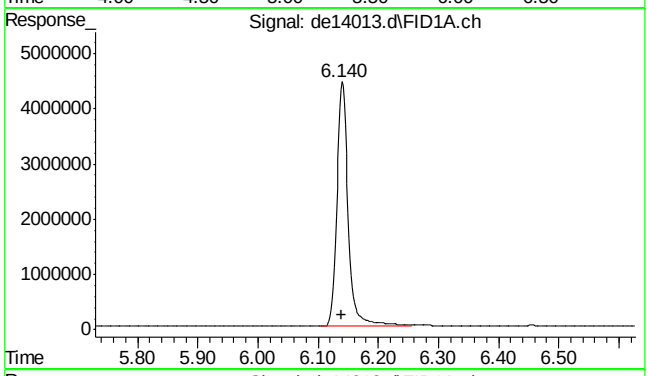






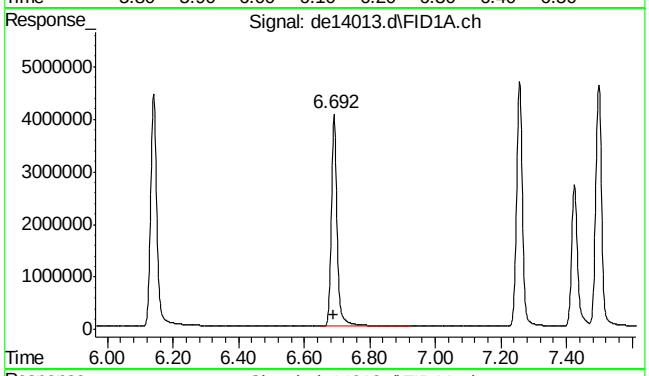
#2 naphthalene

R.T.: 5.242 min
Delta R.T.: 0.000 min
Response: 5965594
Conc: 57.84 µg/ml



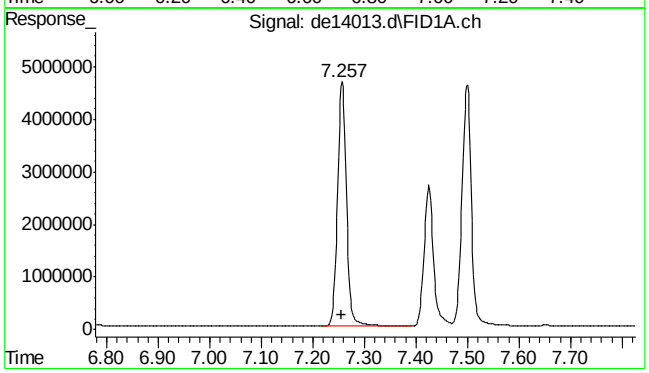
#3 2-methylnaphthalene

R.T.: 6.140 min
Delta R.T.: 0.000 min
Response: 5764057
Conc: 56.24 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.692 min
Delta R.T.: 0.000 min
Response: 5206903
Conc: 56.46 µg/ml



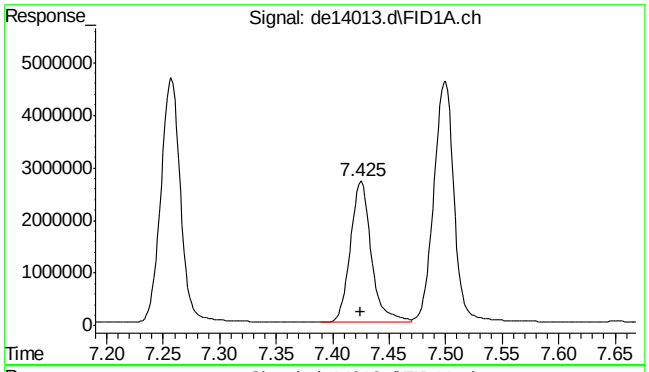
#5 acenaphthylene

R.T.: 7.257 min
Delta R.T.: 0.000 min
Response: 5638610
Conc: 56.05 µg/ml

9.5.11

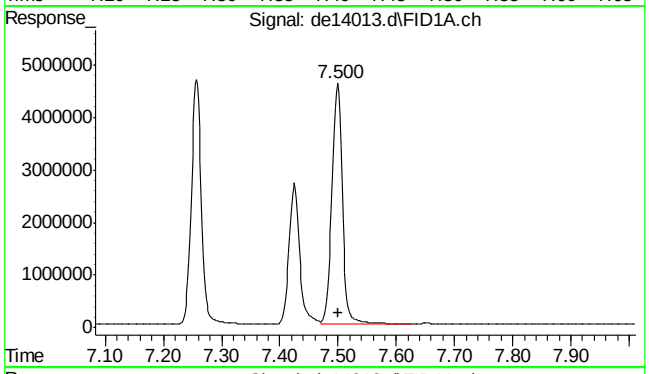
9

SGS ACCUTEST MC45538



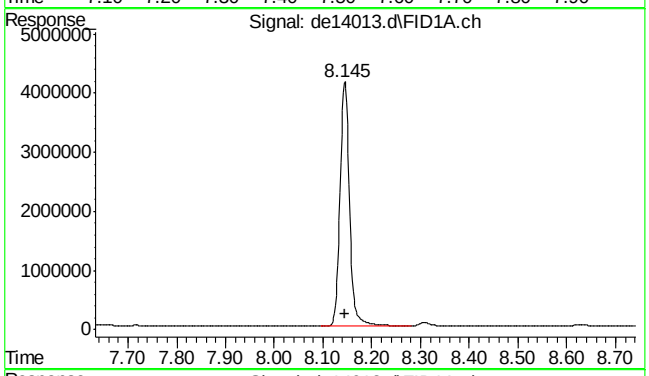
#6 2-bromonaphthalene

R.T.: 7.425 min
Delta R.T.: 0.000 min
Response: 3450652
Conc: 54.99 µg/ml



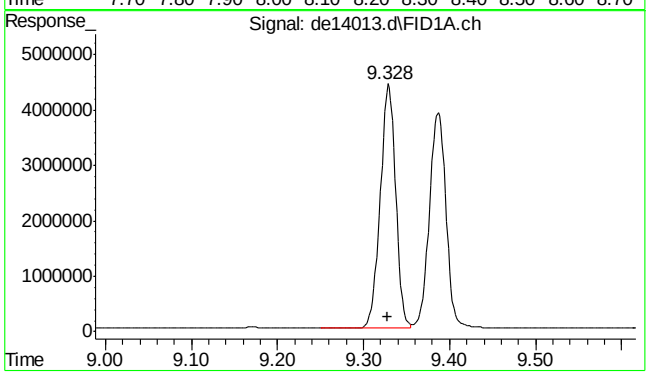
#7 acenaphthene

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 5834592
Conc: 56.44 µg/ml



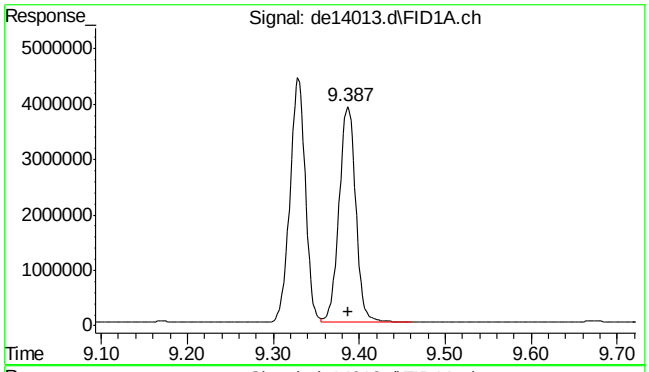
#8 fluorene

R.T.: 8.145 min
Delta R.T.: 0.000 min
Response: 5600103
Conc: 55.14 µg/ml



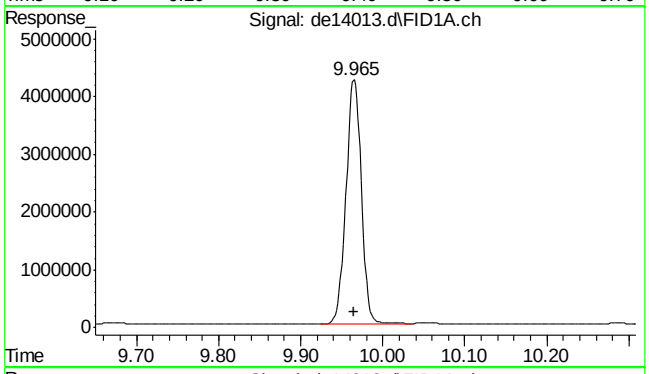
#9 phenanthrene

R.T.: 9.328 min
Delta R.T.: 0.000 min
Response: 5467853
Conc: 53.73 µg/ml



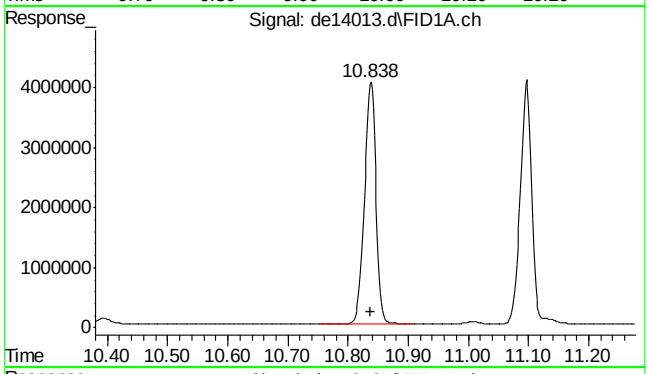
#10 anthracene

R.T.: 9.387 min
Delta R.T.: 0.000 min
Response: 5259483
Conc: 54.22 µg/ml



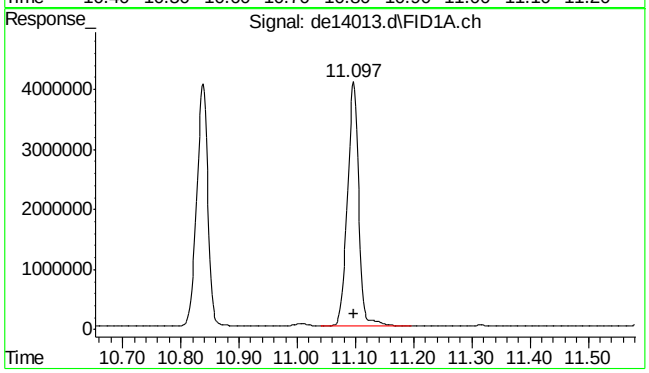
#11 o-terphenyl

R.T.: 9.965 min
Delta R.T.: 0.000 min
Response: 5495232
Conc: 53.65 µg/ml



#12 fluoranthene

R.T.: 10.838 min
Delta R.T.: 0.000 min
Response: 5293435
Conc: 52.97 µg/ml



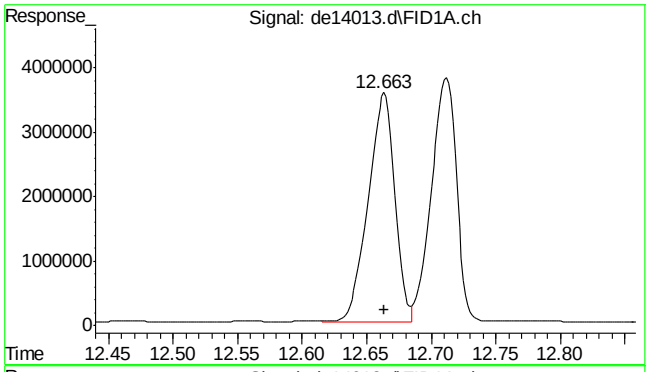
#13 pyrene

R.T.: 11.097 min
Delta R.T.: 0.000 min
Response: 5423274
Conc: 53.45 µg/ml

9.5.11

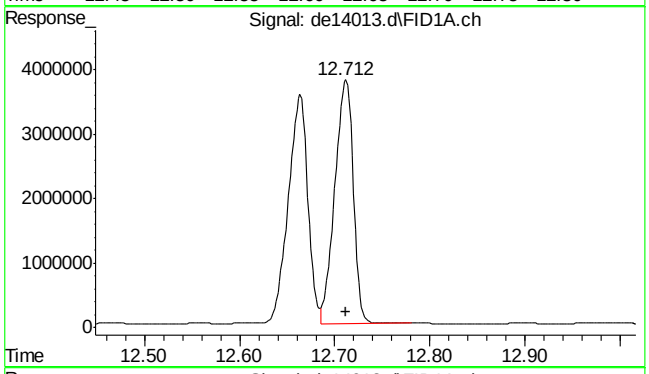
9

SGS ACCUTEST MC45538



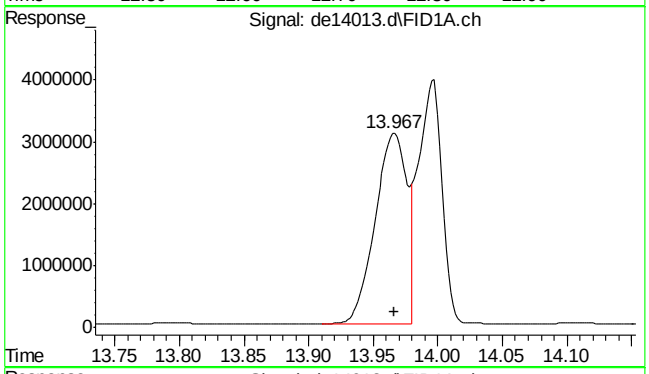
#14 benzo(a)anthracene

R.T.: 12.663 min
Delta R.T.: 0.000 min
Response: 5073781
Conc: 52.48 µg/ml



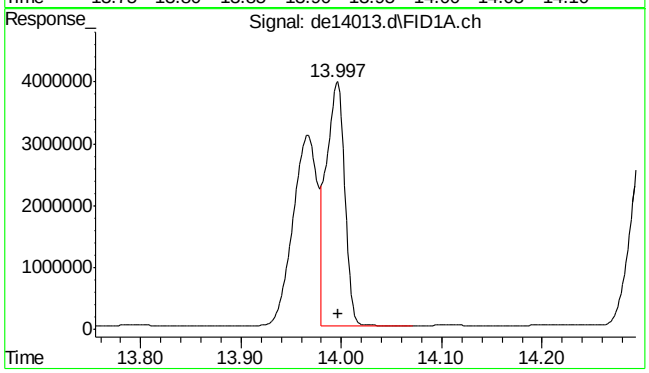
#15 chrysene

R.T.: 12.712 min
Delta R.T.: 0.000 min
Response: 5092091
Conc: 52.31 µg/ml



#16 benzo(B)fluoranthene

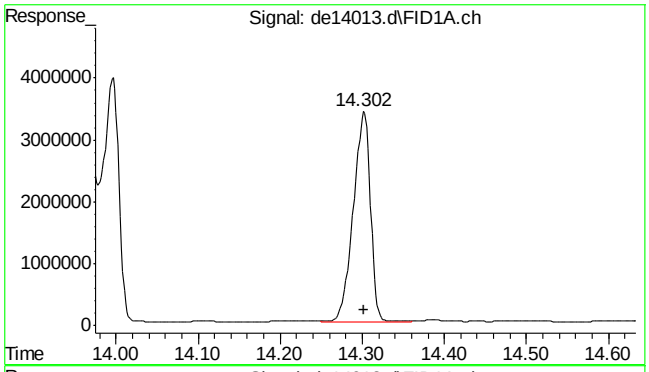
R.T.: 13.967 min
Delta R.T.: 0.000 min
Response: 5365968
Conc: 54.20 µg/ml



#17 benzo(k)fluoranthene

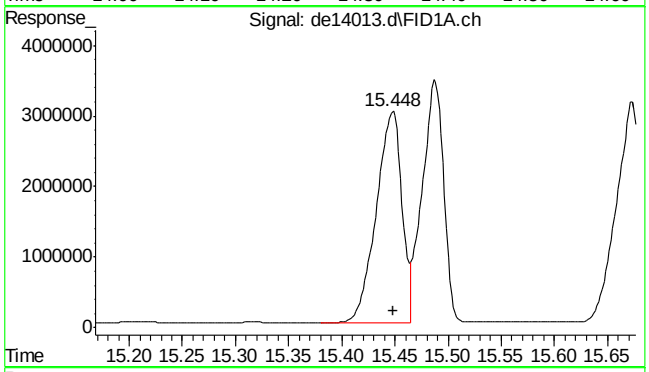
R.T.: 13.997 min
Delta R.T.: 0.000 min
Response: 4875280
Conc: 51.59 µg/ml

SGS ACCUTEST MC45538



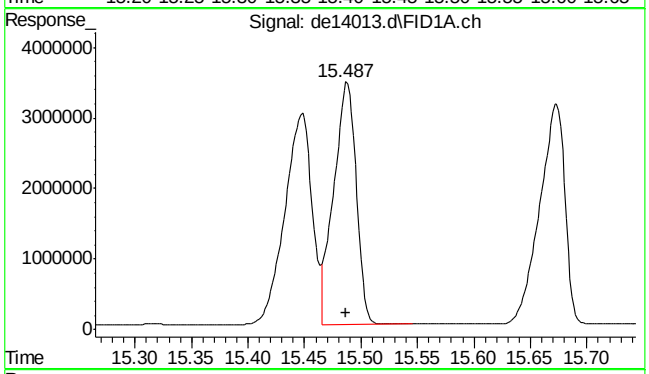
#18 benzo(a)pyrene

R.T.: 14.302 min
Delta R.T.: 0.000 min
Response: 4884608
Conc: 52.84 µg/ml



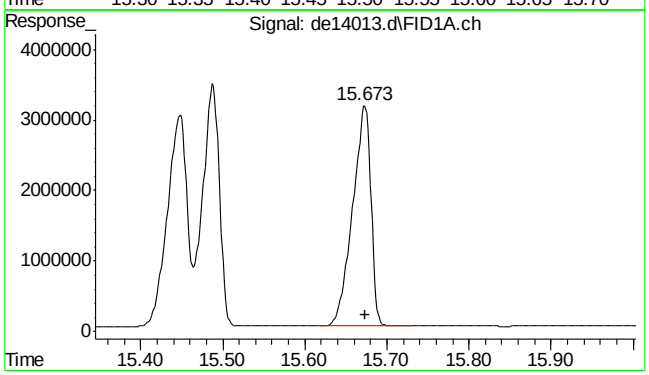
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.448 min
Delta R.T.: 0.000 min
Response: 5070054
Conc: 53.56 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.487 min
Delta R.T.: 0.000 min
Response: 4748405
Conc: 51.95 µg/ml



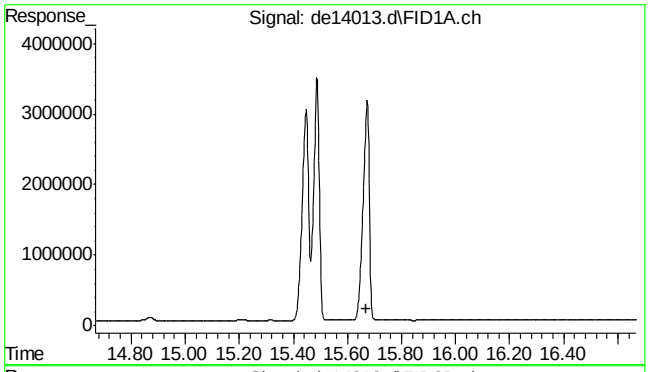
#21 benzo(ghi)perylene

R.T.: 15.673 min
Delta R.T.: 0.000 min
Response: 4843866
Conc: 52.58 µg/ml

9.5.11

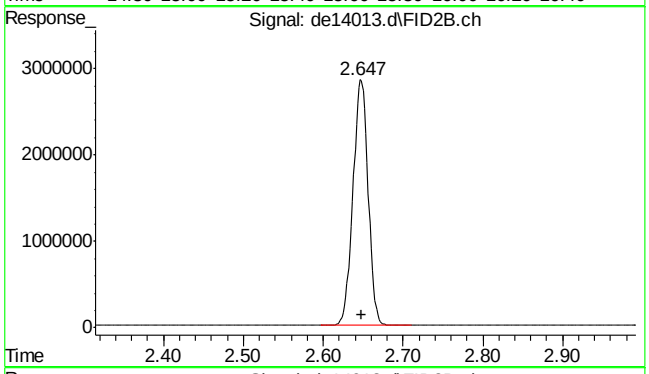
9

SGS ACCUTEST MC45538



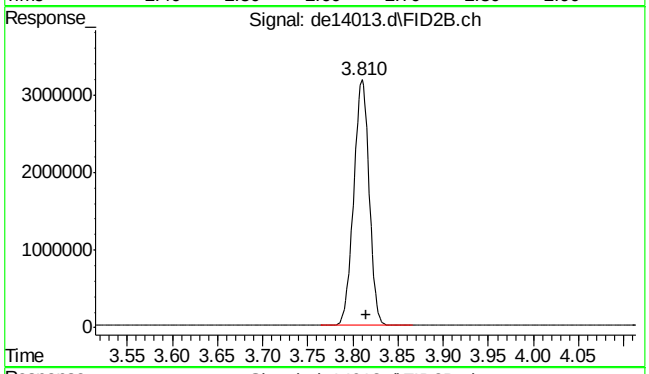
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



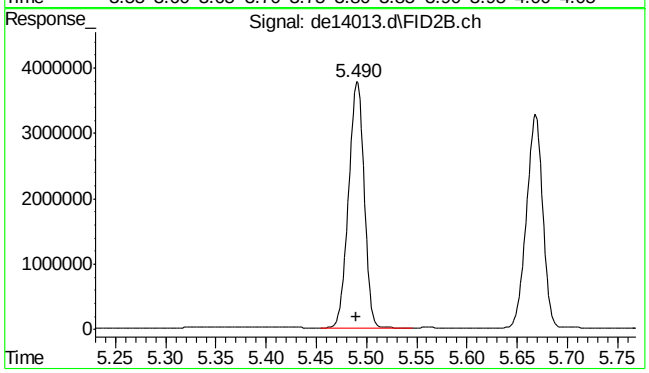
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3734273
Conc: 50.55 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3786223
Conc: 51.25 µg/ml



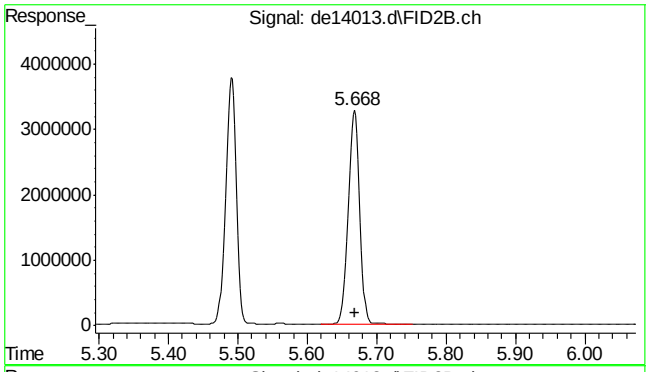
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: 0.000 min
Response: 4040362
Conc: 50.59 µg/ml

9.5.11

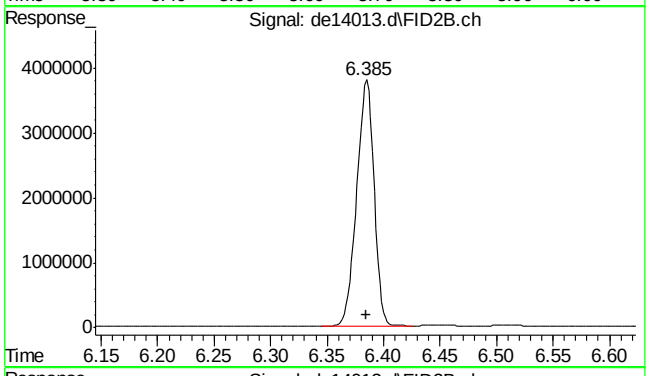
9

SGS ACCUTEST MC45538



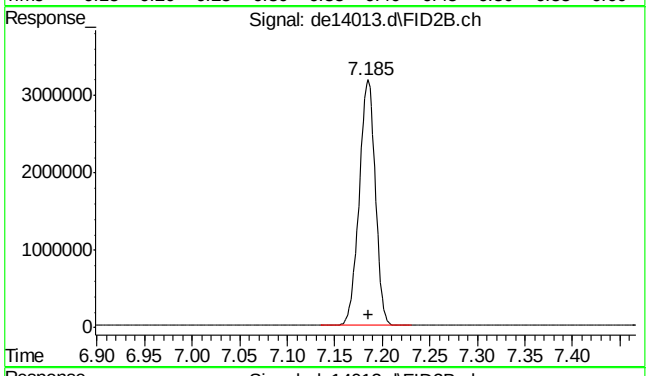
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 3751475
Conc: 50.78 µg/ml



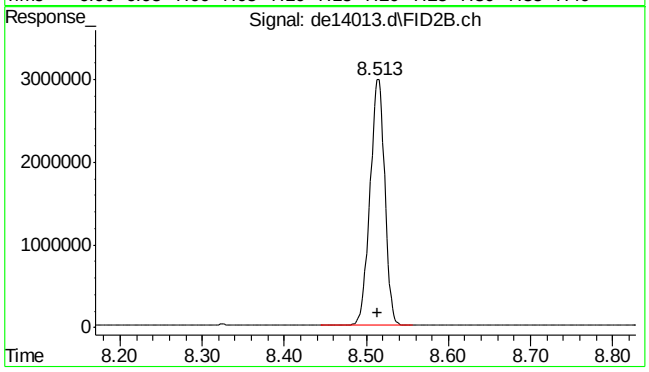
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4017774
Conc: 49.87 µg/ml



#30 c-14

R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 3723215
Conc: 50.40 µg/ml



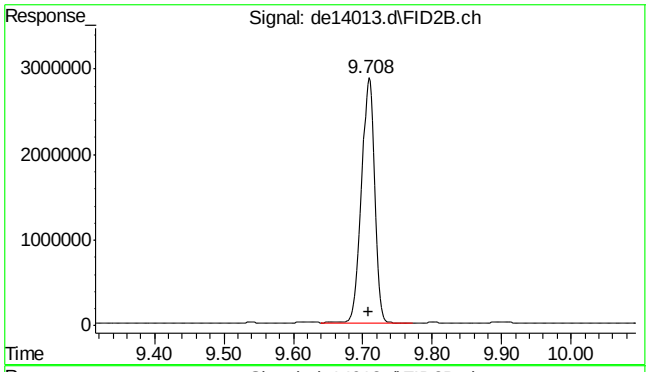
#31 c-16

R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 3691958
Conc: 49.98 µg/ml

9.5.11

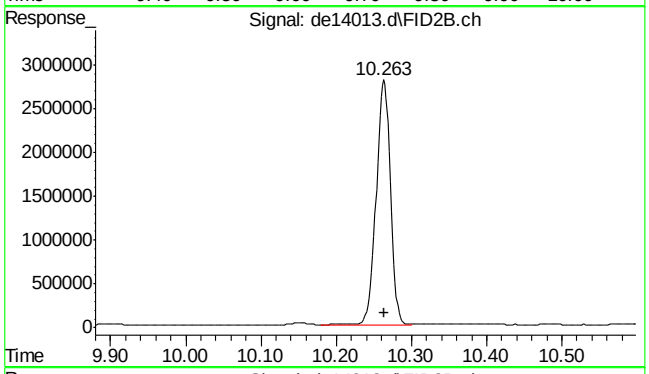
9

SGS ACCUTEST MC45538



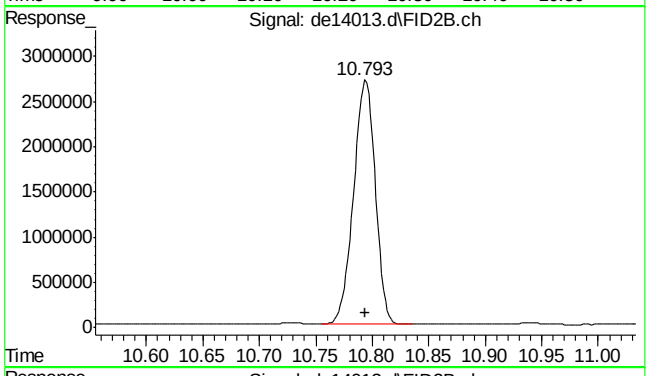
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 3689513
Conc: 49.94 µg/ml



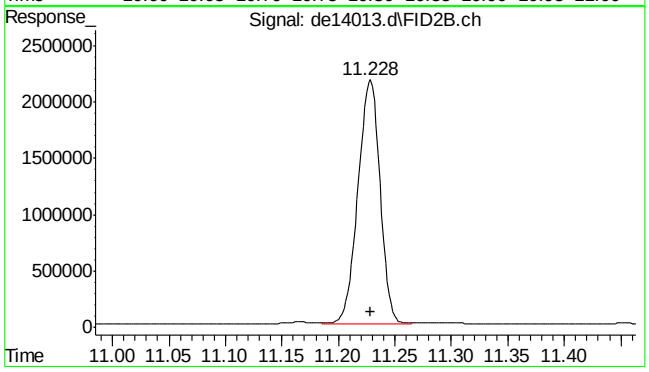
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3676148
Conc: 55.03 µg/ml



#34 c-20

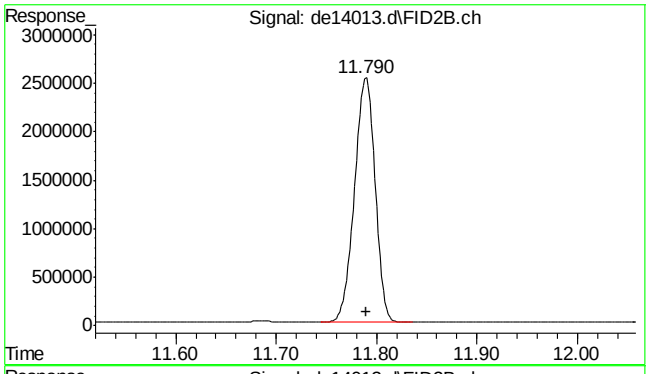
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 3607664
Conc: 54.00 µg/ml



#35 1-chlorooctadecane

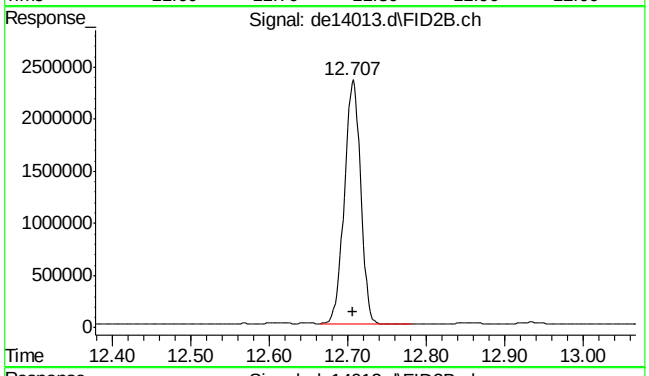
R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 2916022
Conc: 51.54 µg/ml

SGS ACCUTEST MC45538



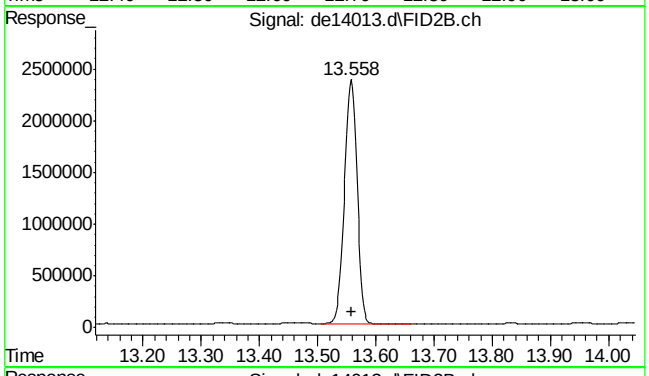
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 3580275
Conc: 53.59 µg/ml



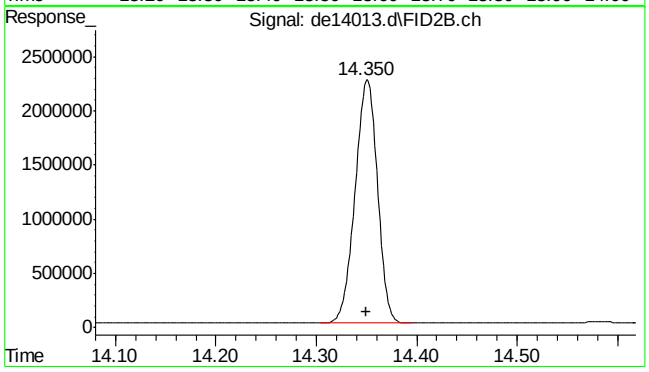
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 3360250
Conc: 50.30 µg/ml



#38 c-26

R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3576973
Conc: 53.54 µg/ml



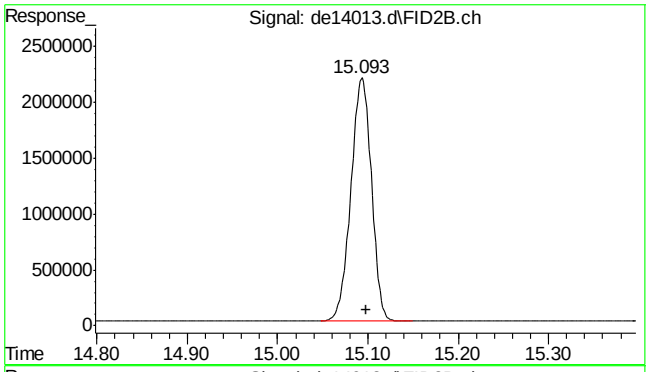
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3455925
Conc: 51.73 µg/ml

9.5.11

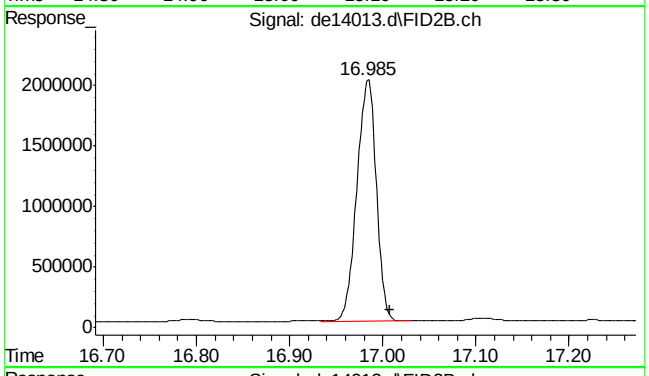
9

SGS ACCUTEST MC45538



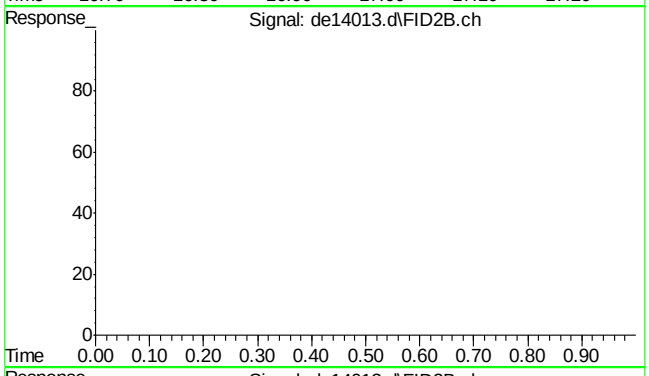
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3466700
Conc: 51.89 µg/ml



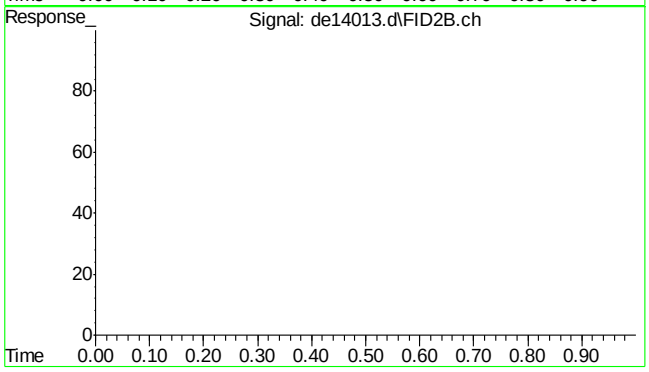
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 2893762
Conc: 43.32 µg/ml m



#42 bht

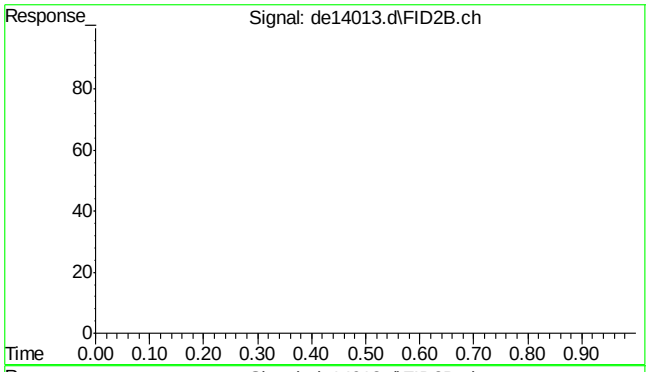
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

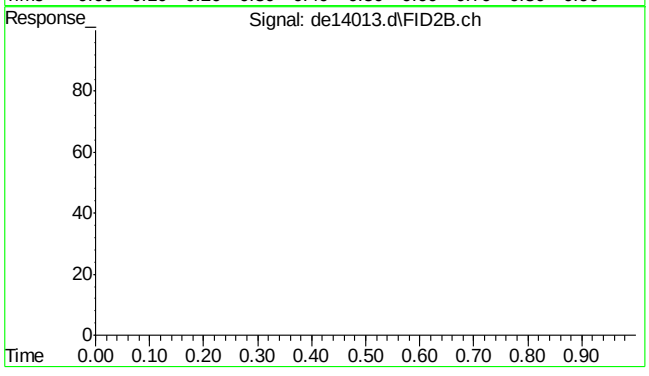
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



#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)
Andri Piluri
05/04/16 14:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:26:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	6.695	4611240	49.997 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 249.98%#
6) s	2-bromonaphthalene	7.427	3073027	48.969 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 244.85%#
11) s	o-terphenyl	9.970	4991584	48.733 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 243.66%#
35) s	1-chlorooctadecane	11.228	3025183	53.472 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 267.36%#
	Target Compounds			
2)	naphthalene	5.245	5218911	50.600 µg/ml
3)	2-methylnaphthalene	6.143	5091101	49.678 µg/ml
5)	acenaphthylene	7.260	4987924	49.581 µg/ml
7)	acenaphthene	7.502	5216204	50.458 µg/ml
8)	fluorene	8.148	5028067	49.505 µg/ml
9)	phenanthrene	9.332	4969627	48.835 µg/ml
10)	anthracene	9.390	4810322	49.587 µg/ml
12)	fluoranthene	10.840	4851350	48.542 µg/ml
13)	pyrene	11.100	4972788	49.011 µg/ml
14)	benzo(a)anthracene	12.667	4700995	48.627 µg/ml
15)	chrysene	12.713	4768863	48.991 µg/ml
16)	benzo(B)fluoranthene	13.968	4929726	49.794 µg/mlm
17)	benzo(k)fluoranthene	14.000	4714438	49.887 µg/mlm
18)	benzo(a)pyrene	14.307	4603144	49.798 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.453	4771025	50.403 µg/mlm
20)	dibenzo(ah)anthracene	15.492	4556725	49.855 µg/mlm
21)	benzo(ghi)perylene	15.677	4603879	49.975 µg/ml
25) h	c-9	2.648	3955677	53.548 µg/mlm
26) h	c-10	3.815	4001855	54.173 µg/ml
27)	naphthalene #2	5.490	4257331	53.302 µg/ml
28)	c-12	5.668	3949275	53.461 µg/ml
29)	2-methylnaphthalene #2	6.385	4233508	52.547 µg/ml
30)	c-14	7.185	3907670	52.898 µg/ml
31)	c-16	8.513	3857327	52.216 µg/ml
32)	c-18	9.708	3840659	51.991 µg/ml
33)	c-19	10.263	3815184	57.108 µg/ml
34)	c-20	10.795	3741224	56.001 µg/ml
36)	c-22	11.790	3719824	55.681 µg/ml
37)	c-24	12.707	3463615	51.846 µg/ml
38)	c-26	13.560	3674885	55.008 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:26:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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	14.352	3541572	53.012 µg/ml
40) h	c-30	15.098	3528036	52.810 µg/ml
41) h	c-36	17.008	2934785	43.930 µg/mlm

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

9.5.12

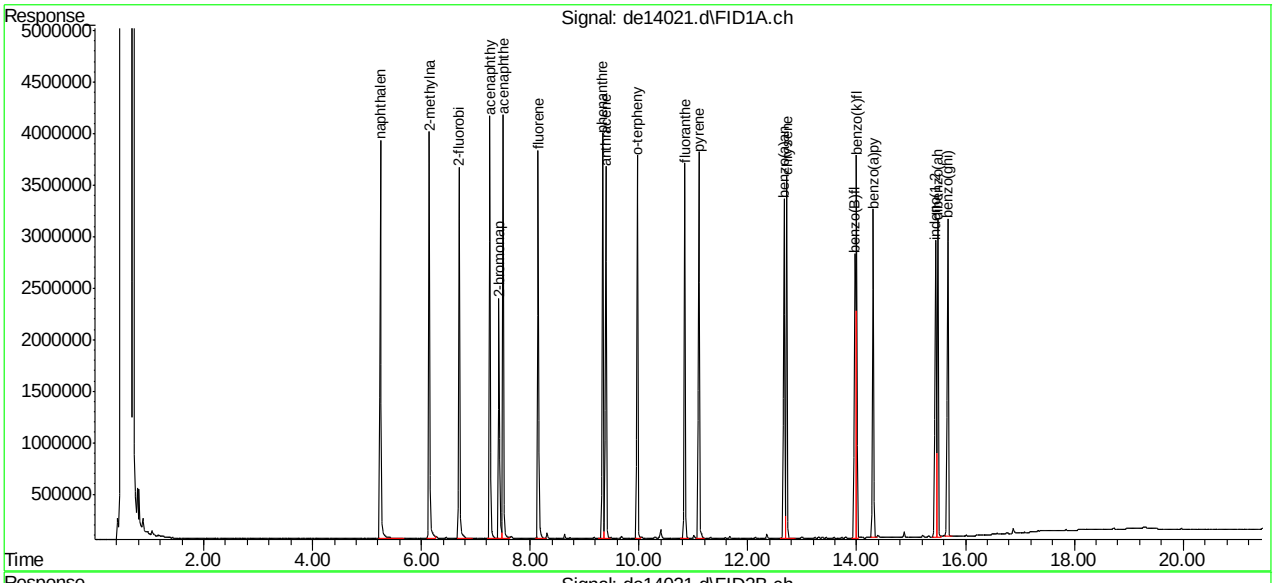
9

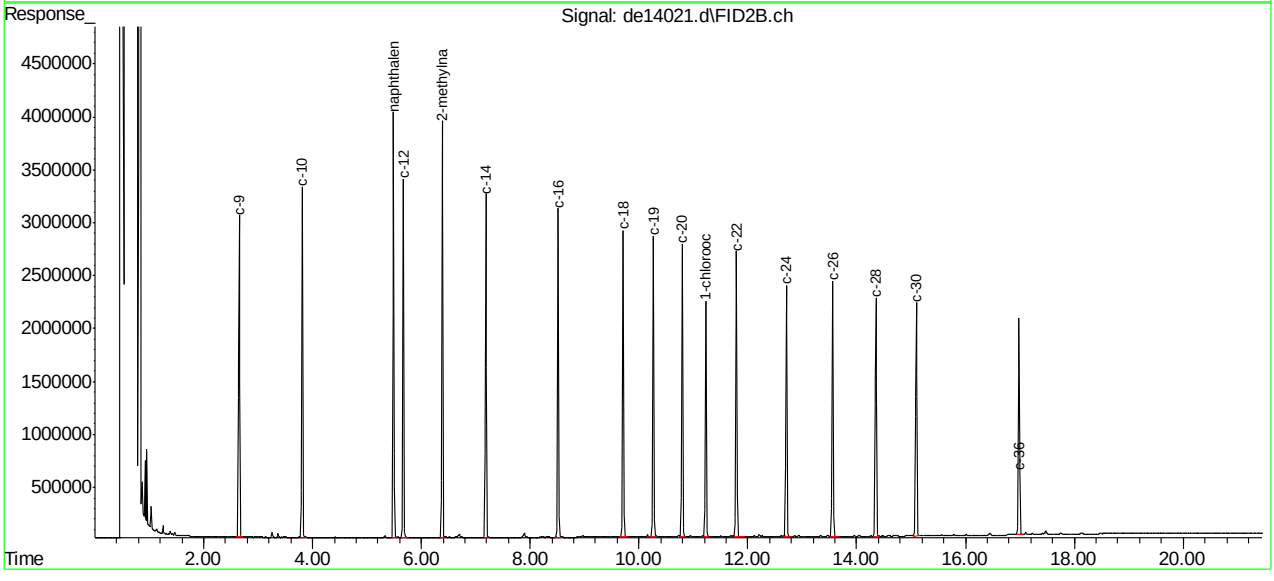
Quantitation Report (QT Reviewed)

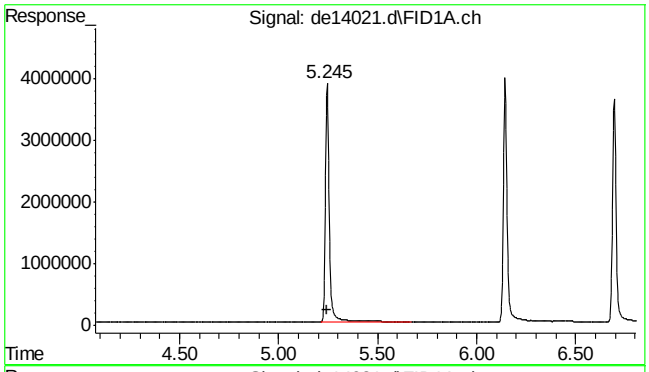
Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:26:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 2016
Response via : Initial Calibration
Integrator: RTE

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

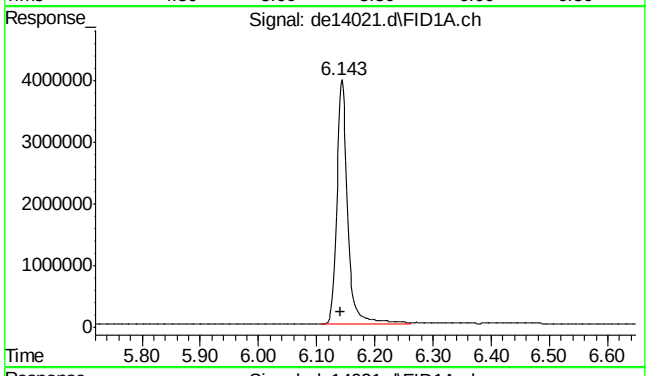






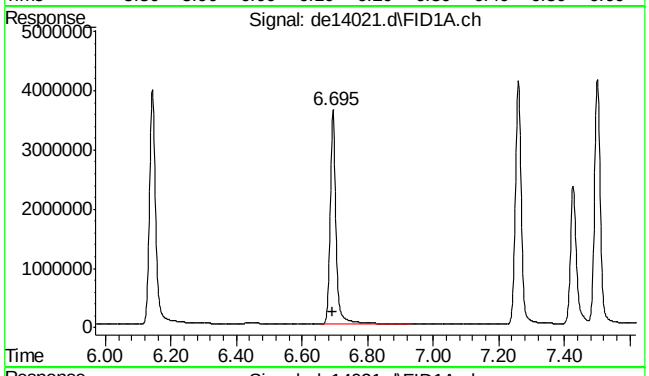
#2 naphthalene

R.T.: 5.245 min
Delta R.T.: 0.003 min
Response: 5218911
Conc: 50.60 µg/ml



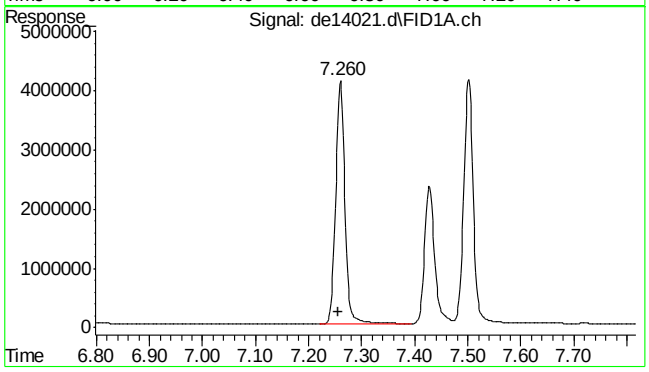
#3 2-methylnaphthalene

R.T.: 6.143 min
Delta R.T.: 0.003 min
Response: 5091101
Conc: 49.68 µg/ml



#4 2-fluorobiphenyl

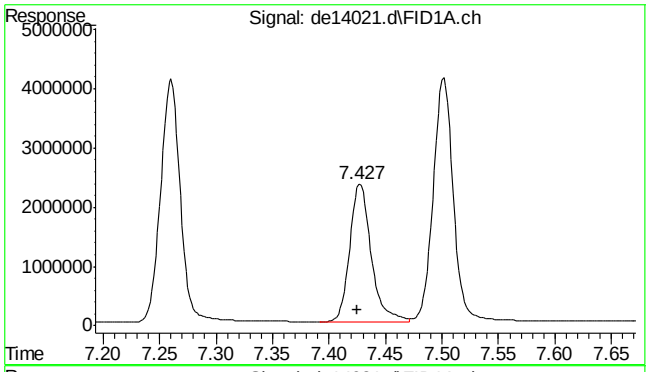
R.T.: 6.695 min
Delta R.T.: 0.003 min
Response: 4611240
Conc: 50.00 µg/ml



#5 acenaphthylene

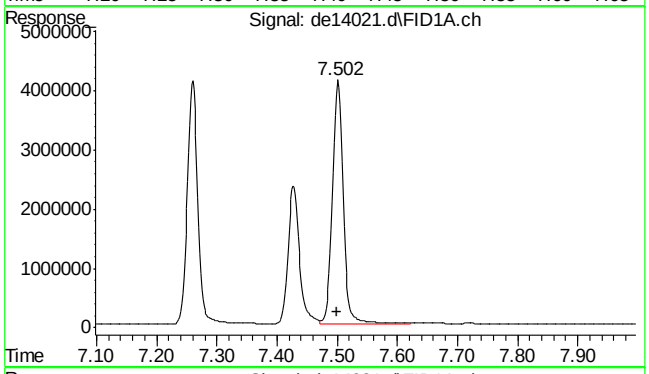
R.T.: 7.260 min
Delta R.T.: 0.003 min
Response: 4987924
Conc: 49.58 µg/ml

SGS ACCUTEST MC45538



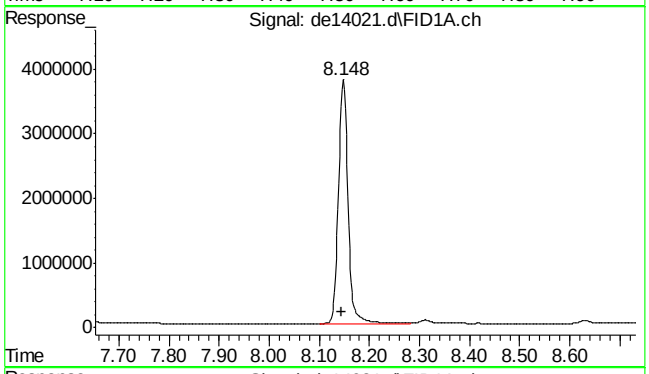
#6 2-bromonaphthalene

R.T.: 7.427 min
Delta R.T.: 0.002 min
Response: 3073027
Conc: 48.97 µg/ml



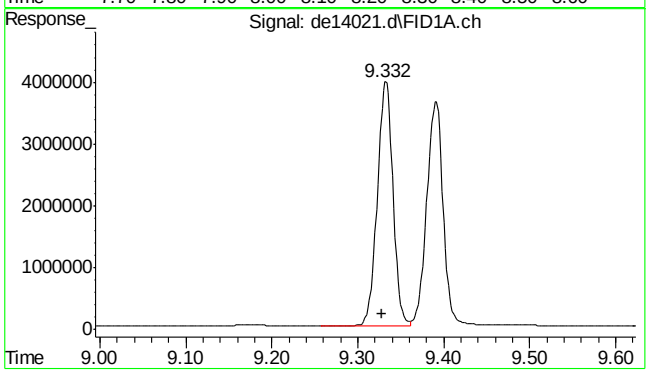
#7 acenaphthene

R.T.: 7.502 min
Delta R.T.: 0.002 min
Response: 5216204
Conc: 50.46 µg/ml



#8 fluorene

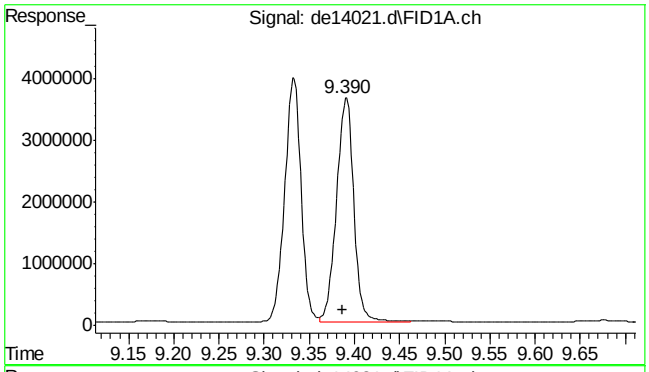
R.T.: 8.148 min
Delta R.T.: 0.003 min
Response: 5028067
Conc: 49.50 µg/ml



#9 phenanthrene

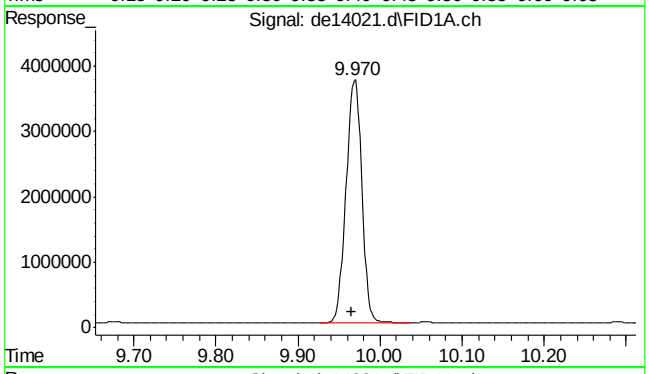
R.T.: 9.332 min
Delta R.T.: 0.003 min
Response: 4969627
Conc: 48.84 µg/ml

SGS ACCUTEST MC45538



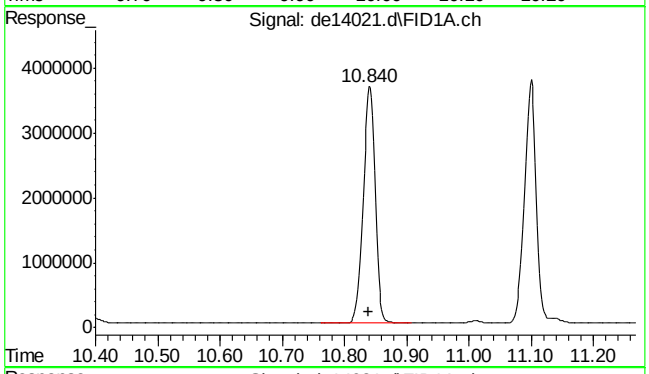
#10 anthracene

R.T.: 9.390 min
Delta R.T.: 0.003 min
Response: 4810322
Conc: 49.59 µg/ml



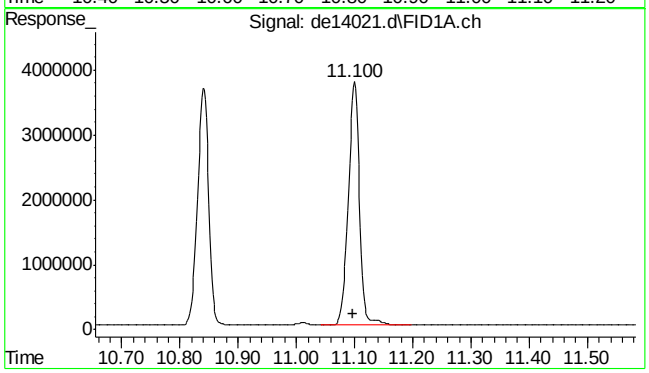
#11 o-terphenyl

R.T.: 9.970 min
Delta R.T.: 0.005 min
Response: 4991584
Conc: 48.73 µg/ml



#12 fluoranthene

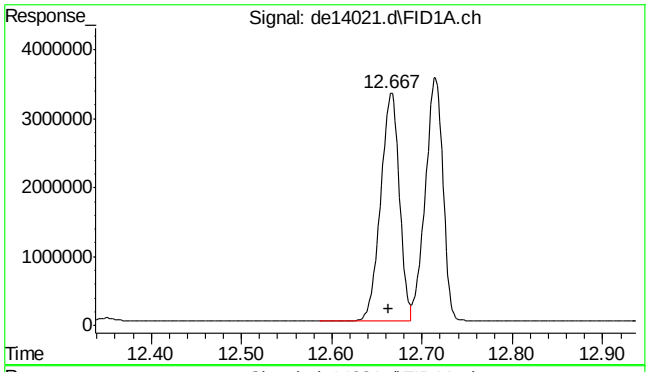
R.T.: 10.840 min
Delta R.T.: 0.002 min
Response: 4851350
Conc: 48.54 µg/ml



#13 pyrene

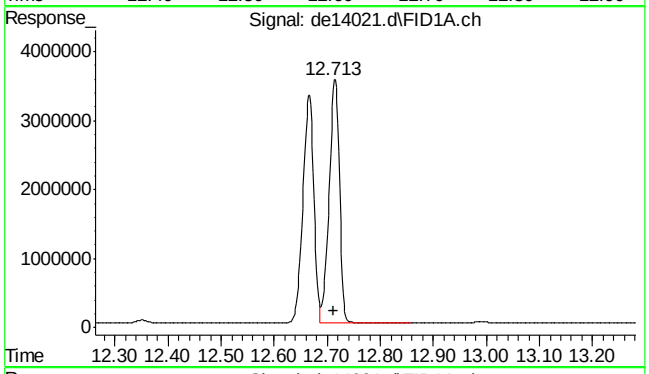
R.T.: 11.100 min
Delta R.T.: 0.003 min
Response: 4972788
Conc: 49.01 µg/ml

SGS ACCUTEST MC45538



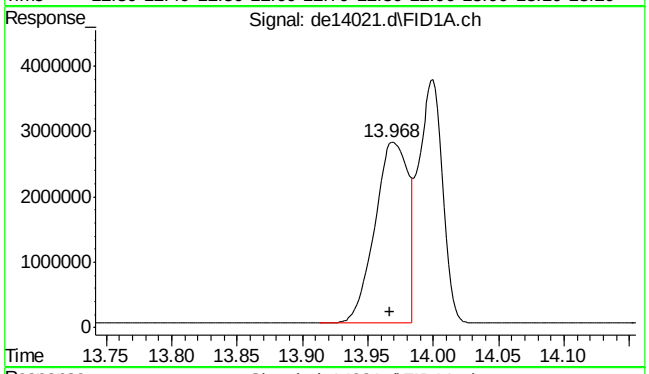
#14 benzo(a)anthracene

R.T.: 12.667 min
Delta R.T.: 0.003 min
Response: 4700995
Conc: 48.63 µg/ml



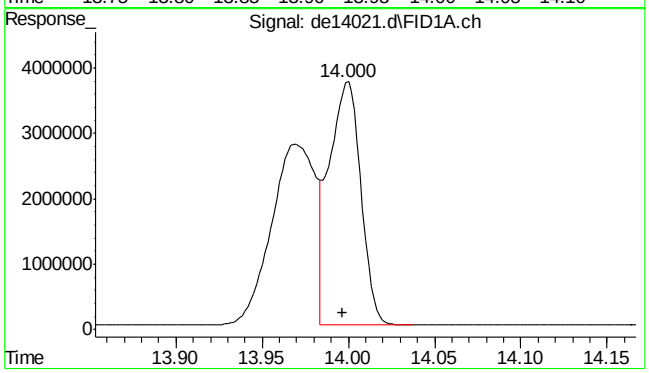
#15 chrysene

R.T.: 12.713 min
Delta R.T.: 0.002 min
Response: 4768863
Conc: 48.99 µg/ml



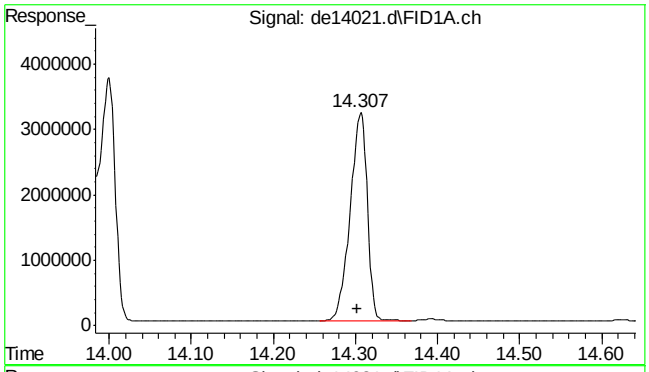
#16 benzo(B)fluoranthene

R.T.: 13.968 min
Delta R.T.: 0.002 min
Response: 4929726
Conc: 49.79 µg/ml m



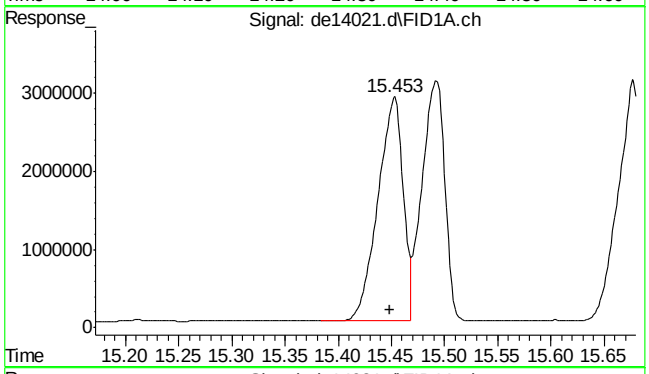
#17 benzo(k)fluoranthene

R.T.: 14.000 min
Delta R.T.: 0.003 min
Response: 4714438
Conc: 49.89 µg/ml m



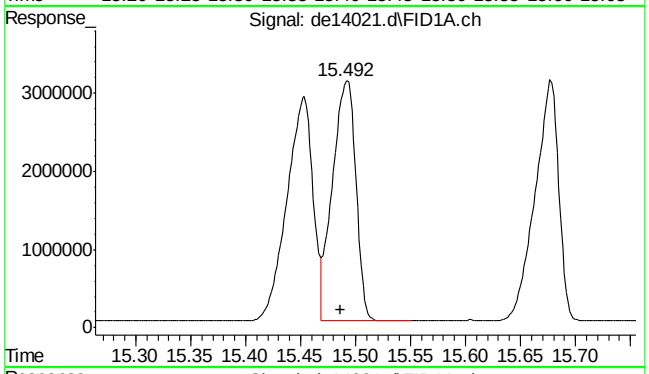
#18 benzo(a)pyrene

R.T.: 14.307 min
Delta R.T.: 0.005 min
Response: 4603144
Conc: 49.80 µg/ml



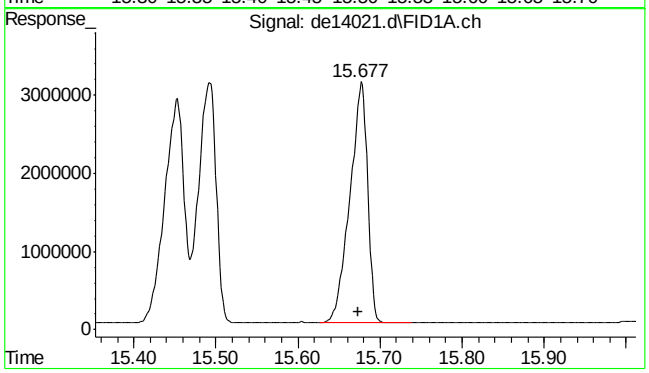
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.453 min
Delta R.T.: 0.005 min
Response: 4771025
Conc: 50.40 µg/ml m



#20 dibenzo(ah)anthracene

R.T.: 15.492 min
Delta R.T.: 0.005 min
Response: 4556725
Conc: 49.86 µg/ml m



#21 benzo(ghi)perylene

R.T.: 15.677 min
Delta R.T.: 0.003 min
Response: 4603879
Conc: 49.98 µg/ml

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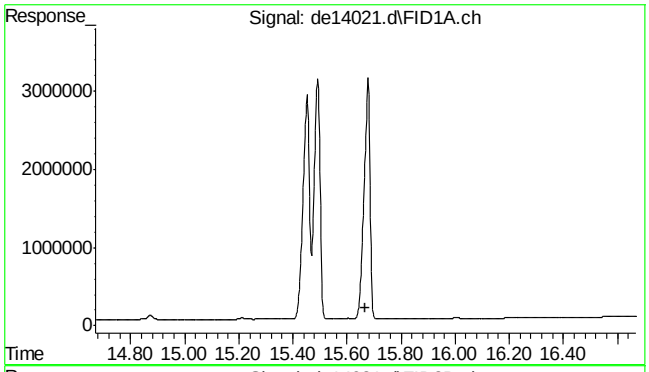
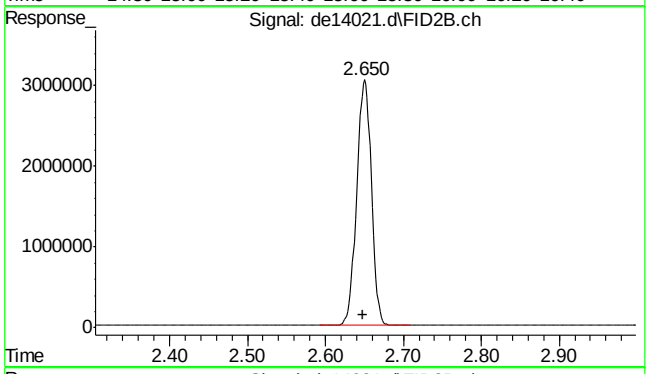


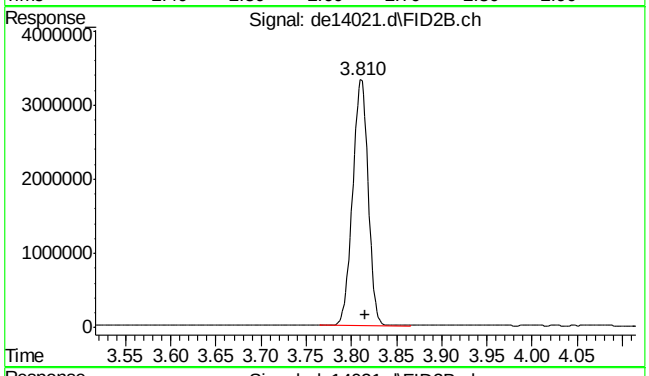
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



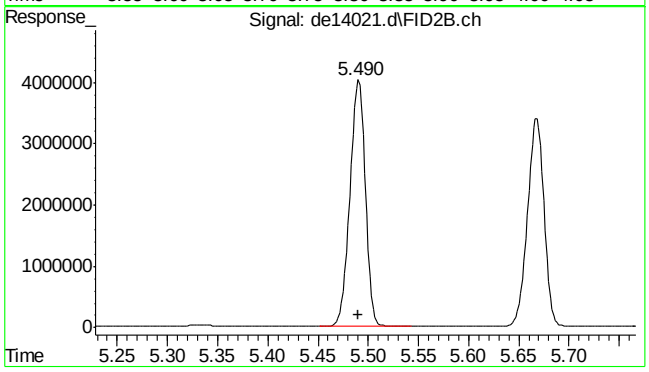
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3955677
Conc: 53.55 µg/ml m



#26 c-10

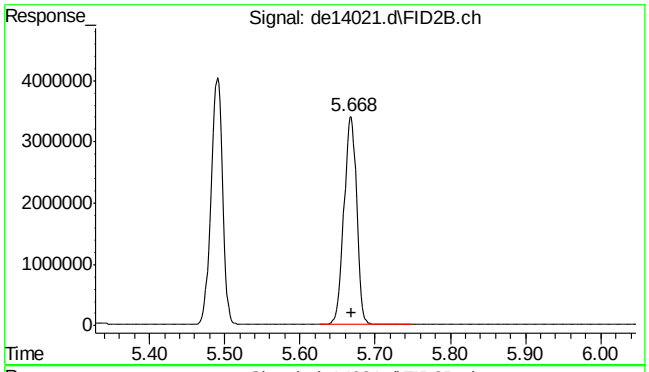
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4001855
Conc: 54.17 µg/ml



#27 naphthalene #2

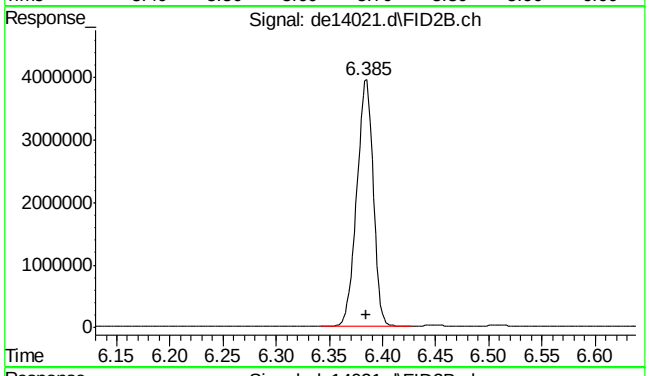
R.T.: 5.490 min
Delta R.T.: 0.000 min
Response: 4257331
Conc: 53.30 µg/ml

SGS ACCUTEST MC45538



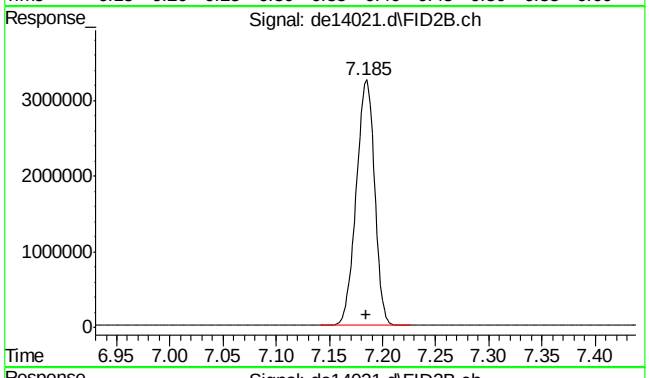
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 3949275
Conc: 53.46 µg/ml



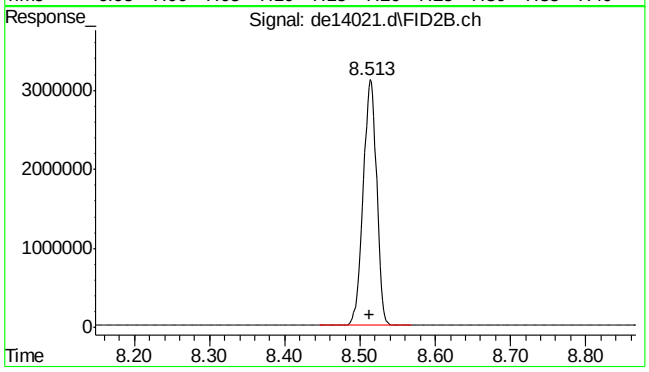
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4233508
Conc: 52.55 µg/ml



#30 c-14

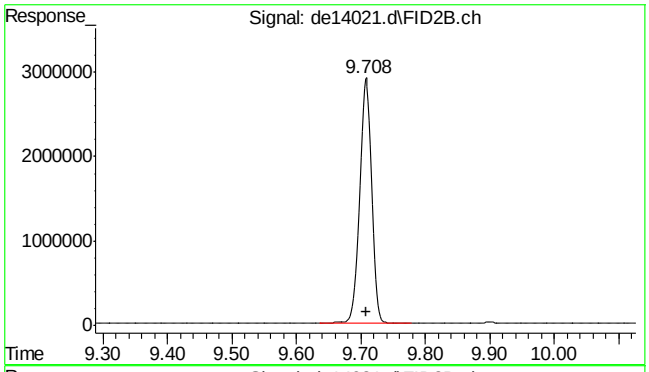
R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 3907670
Conc: 52.90 µg/ml



#31 c-16

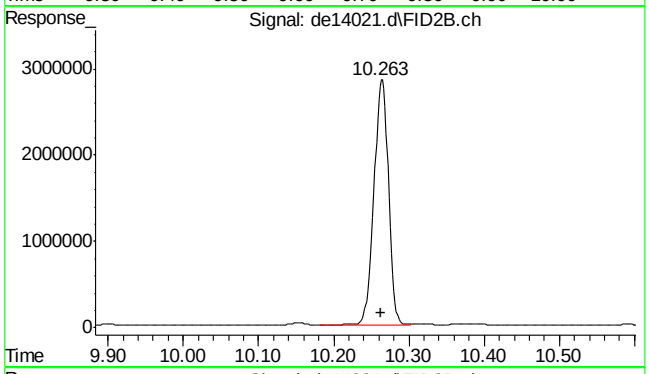
R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 3857327
Conc: 52.22 µg/ml

SGS ACCUTEST MC45538



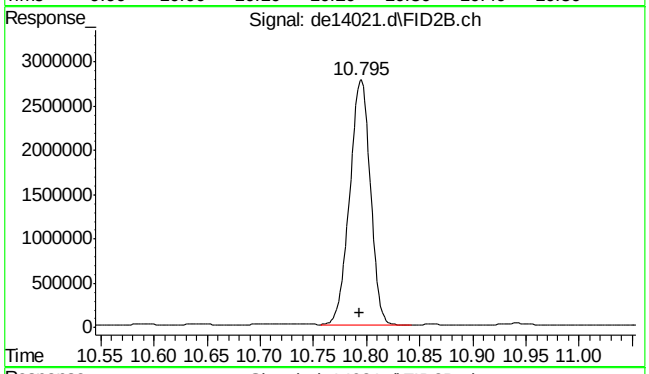
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 3840659
Conc: 51.99 µg/ml



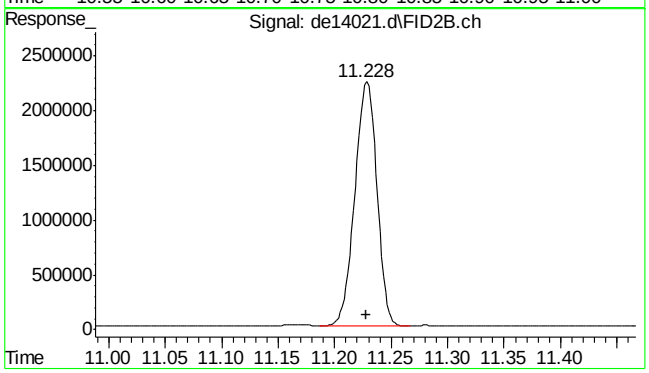
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3815184
Conc: 57.11 µg/ml



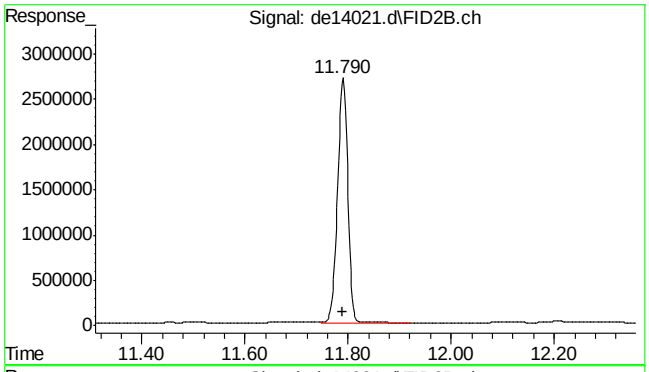
#34 c-20

R.T.: 10.795 min
Delta R.T.: 0.002 min
Response: 3741224
Conc: 56.00 µg/ml



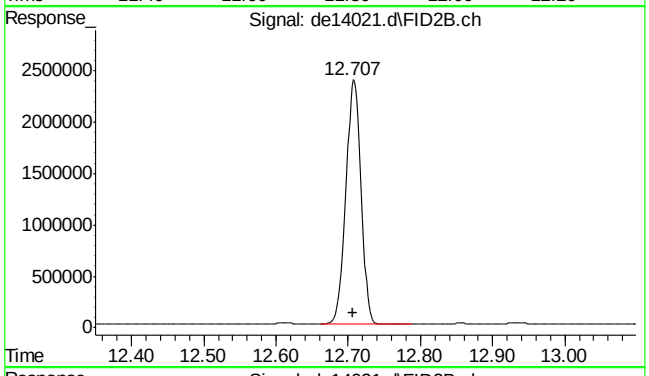
#35 1-chlorooctadecane

R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3025183
Conc: 53.47 µg/ml



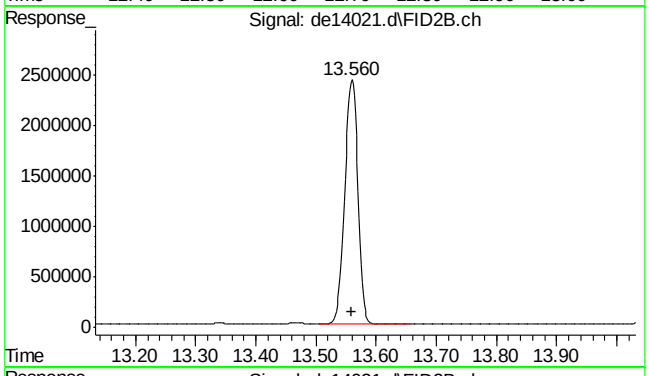
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 3719824
Conc: 55.68 µg/ml



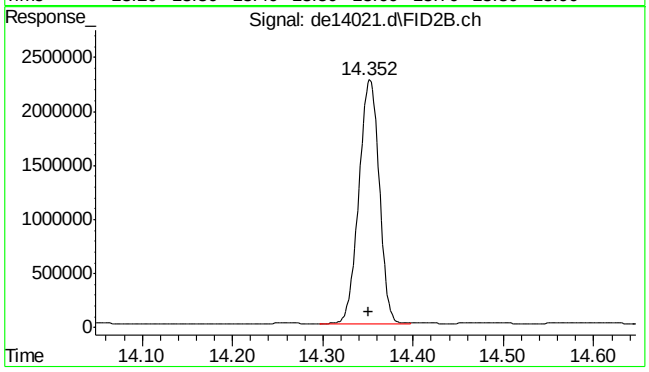
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 3463615
Conc: 51.85 µg/ml



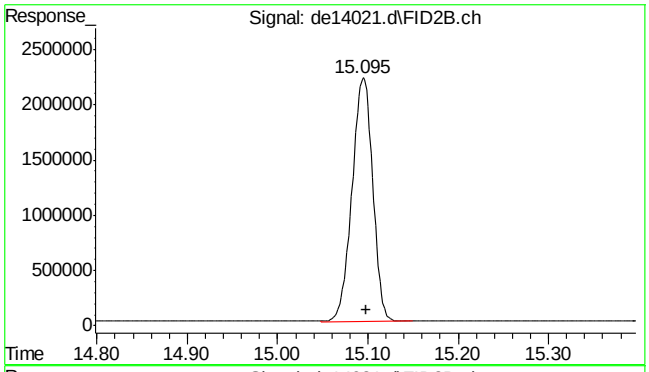
#38 c-26

R.T.: 13.560 min
Delta R.T.: 0.002 min
Response: 3674885
Conc: 55.01 µg/ml



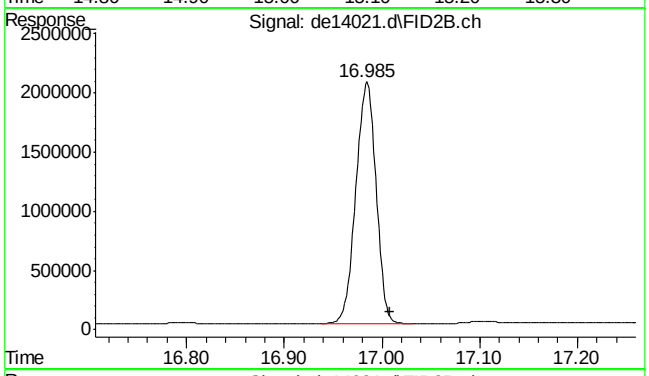
#39 c-28

R.T.: 14.352 min
Delta R.T.: 0.002 min
Response: 3541572
Conc: 53.01 µg/ml



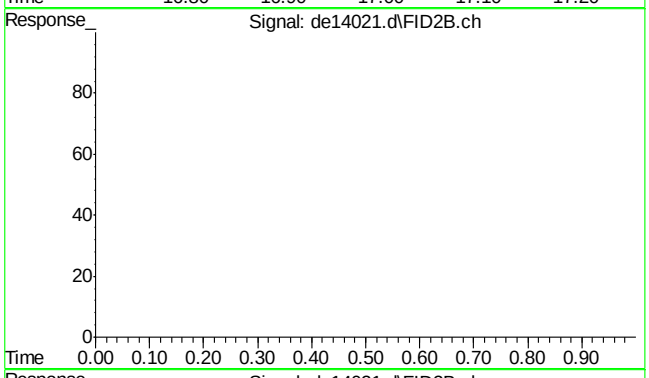
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3528036
Conc: 52.81 µg/ml



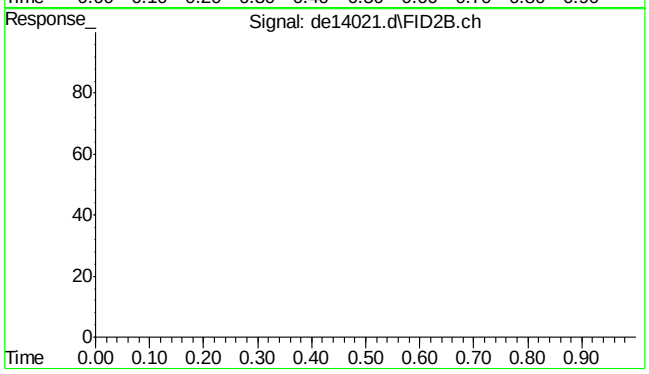
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 2934785
Conc: 43.93 µg/ml m



#42 bht

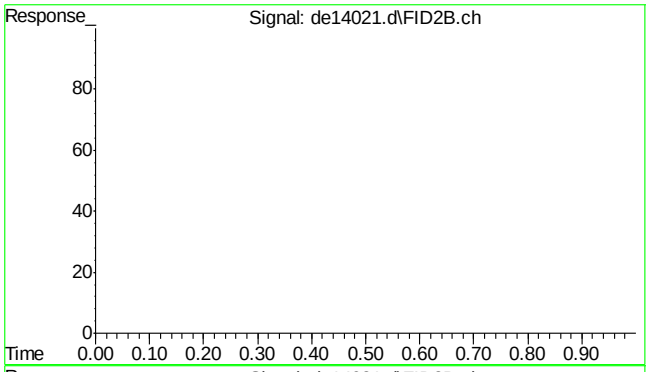
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

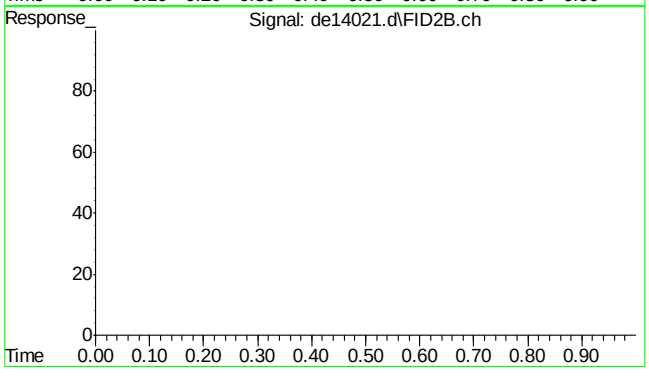
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

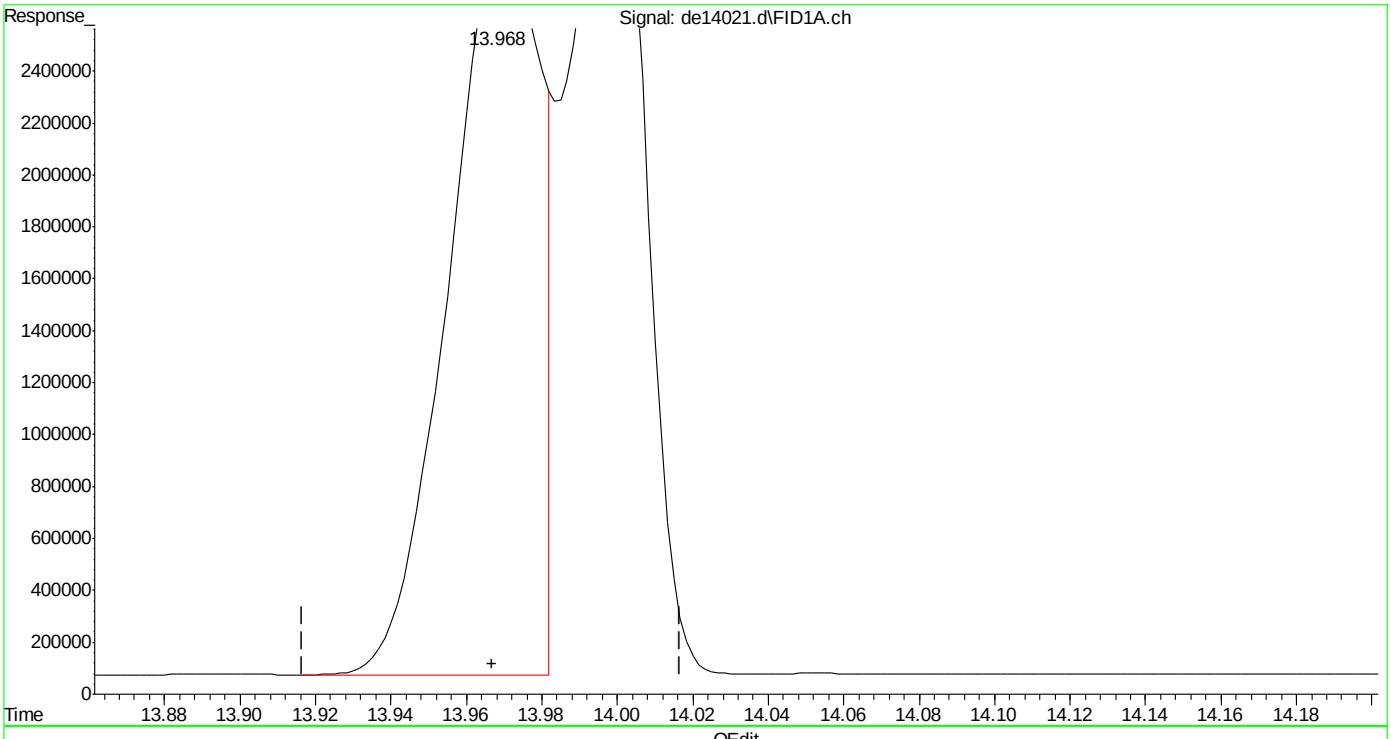
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
13.968min 47.529 µg/ml
response 4705532

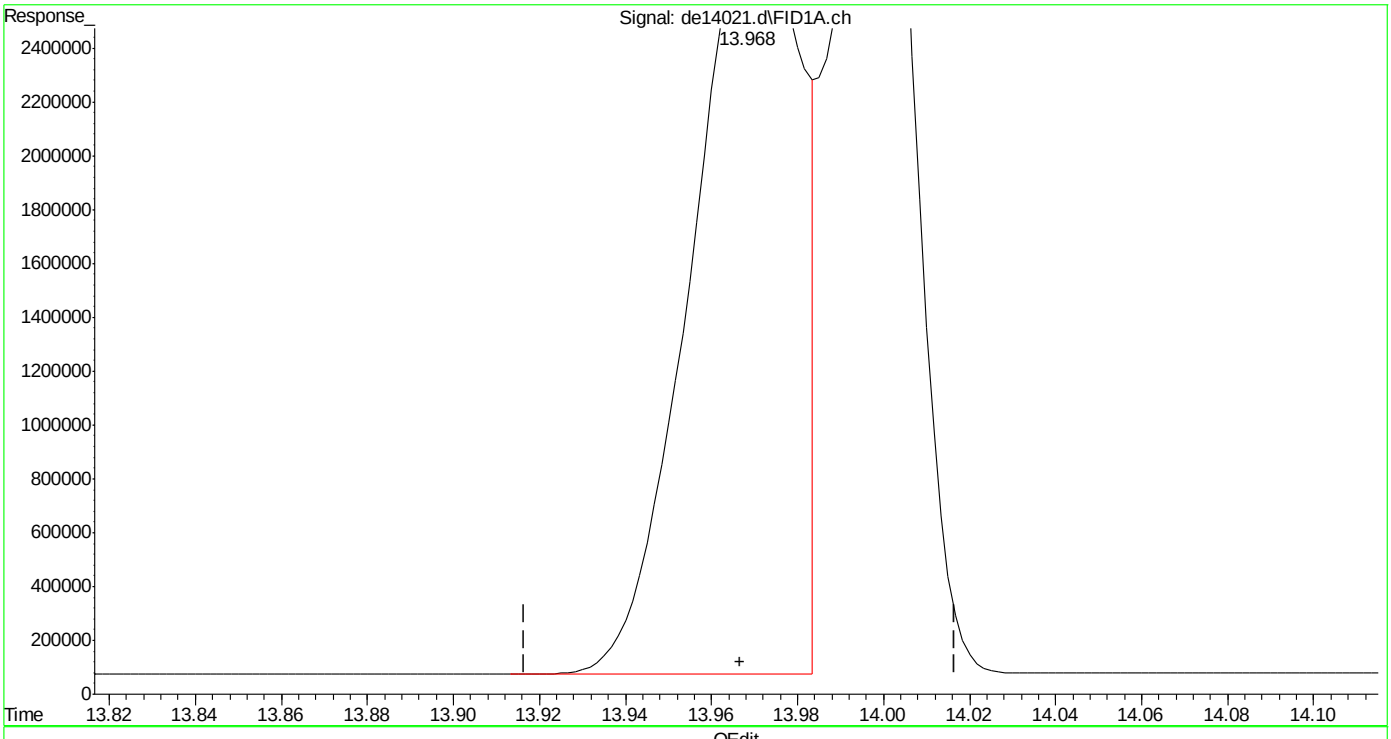
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  4 May 2016   1:01 pm
Operator  : thomasa
Sample    : ecc735-50, gde784
Misc      : op47292,gde784,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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

13.968min 49.794 µg/ml m

response 4929726

(+) = Expected Retention Time

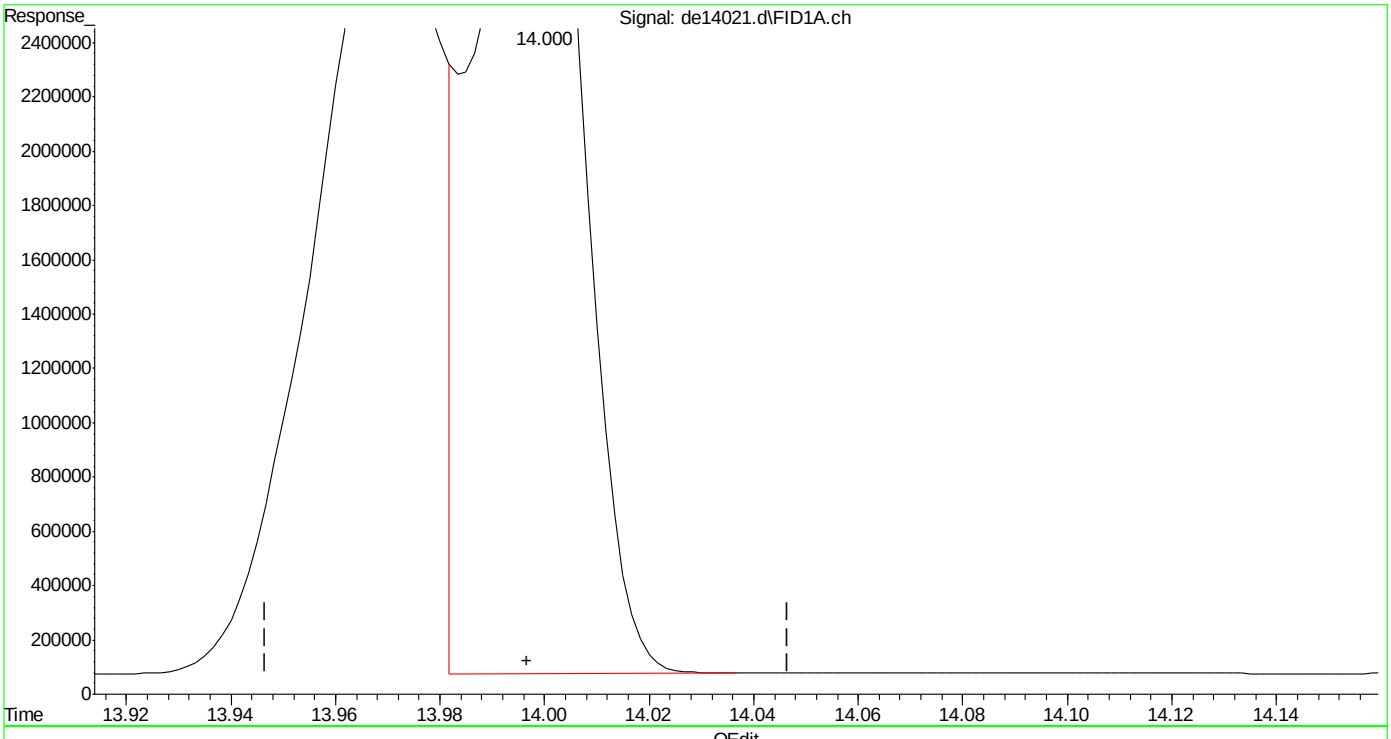
EPH160504W.M Wed May 04 13:24:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
14.000min 52.180 µg/ml
response 4931114

(+) = Expected Retention Time
EPH160504W.M Wed May 04 13:24:14 2016 Page: 1

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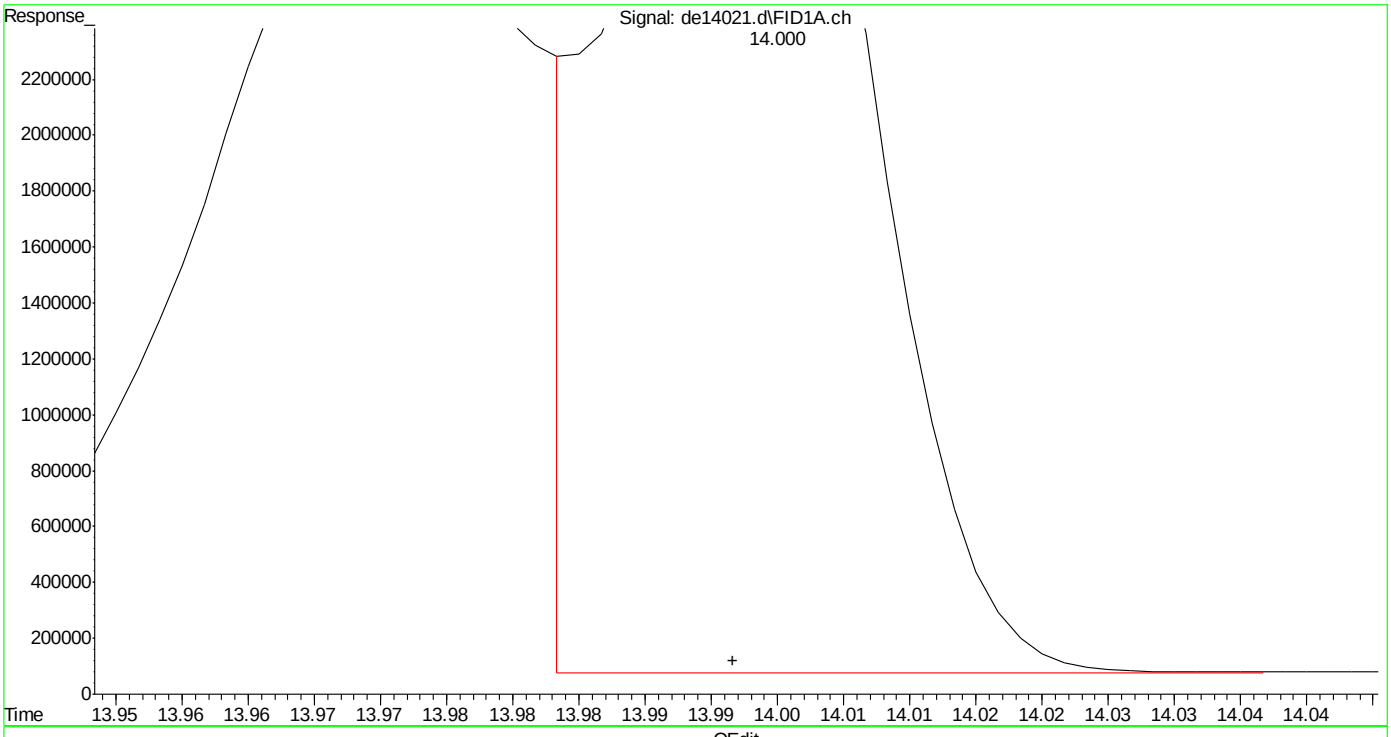
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
14.000min 49.887 µg/ml m
response 4714438

(+) = Expected Retention Time
EPH160504W.M Wed May 04 13:25:07 2016 Page: 1

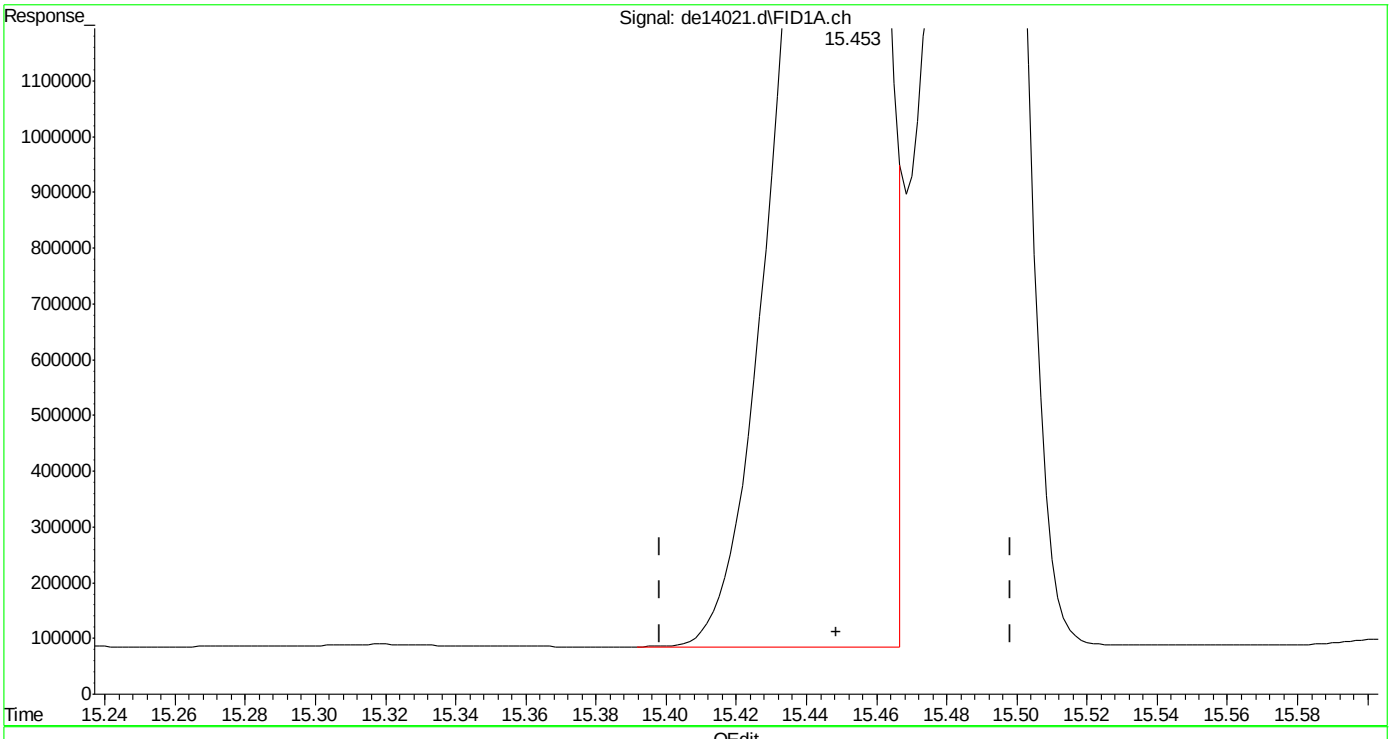
SGS ACCUTEST MC45538

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.453min 49.517 µg/ml
response 4687186

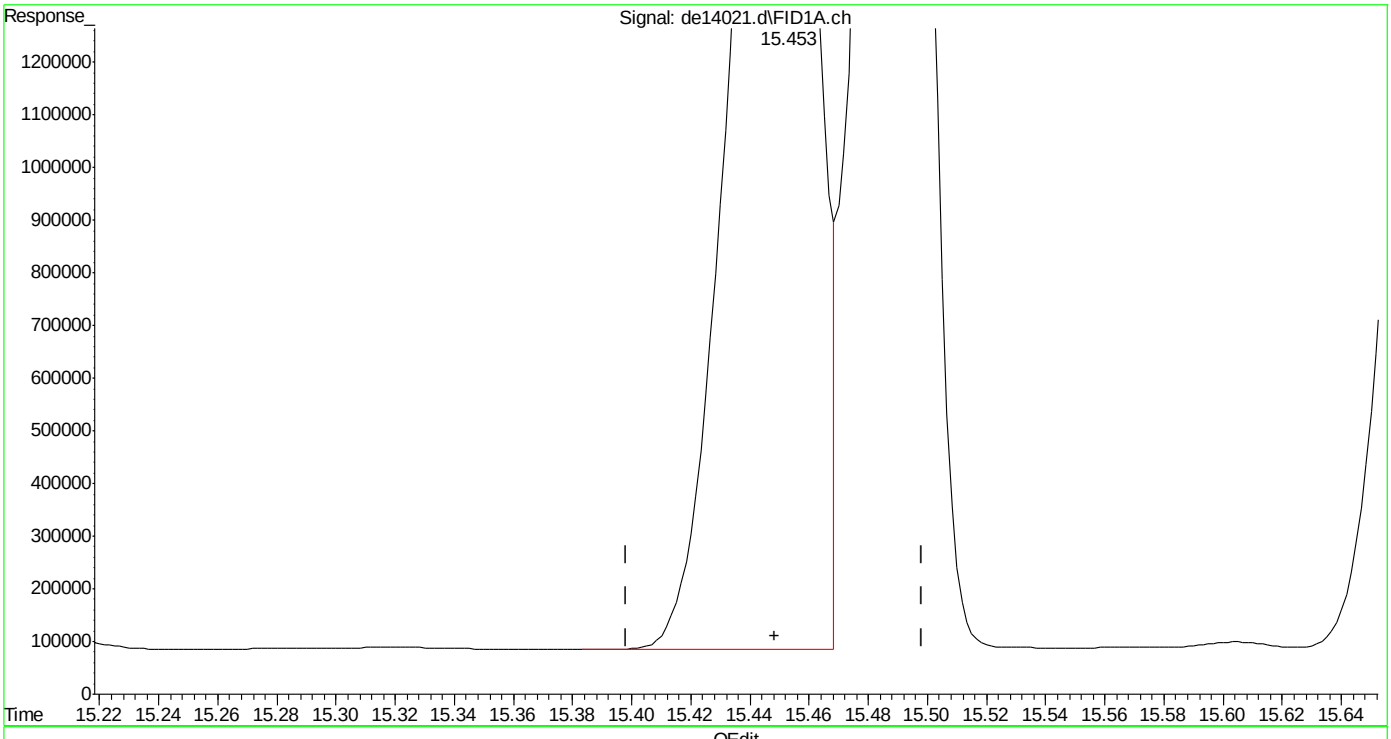
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.453min 50.403 µg/ml m
response 4771025

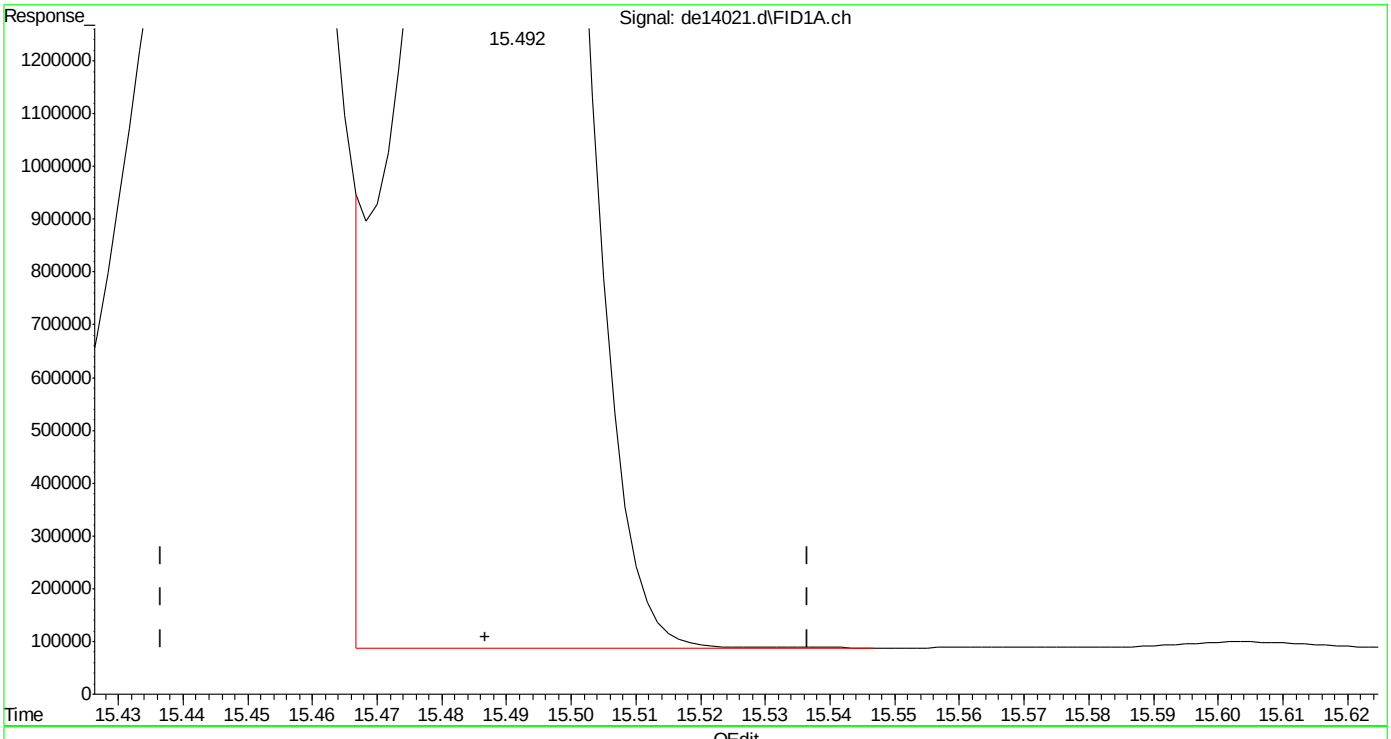
(+) = Expected Retention Time
EPH160504W.M Wed May 04 13:25:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.492min 50.661 µg/ml
response 4630381

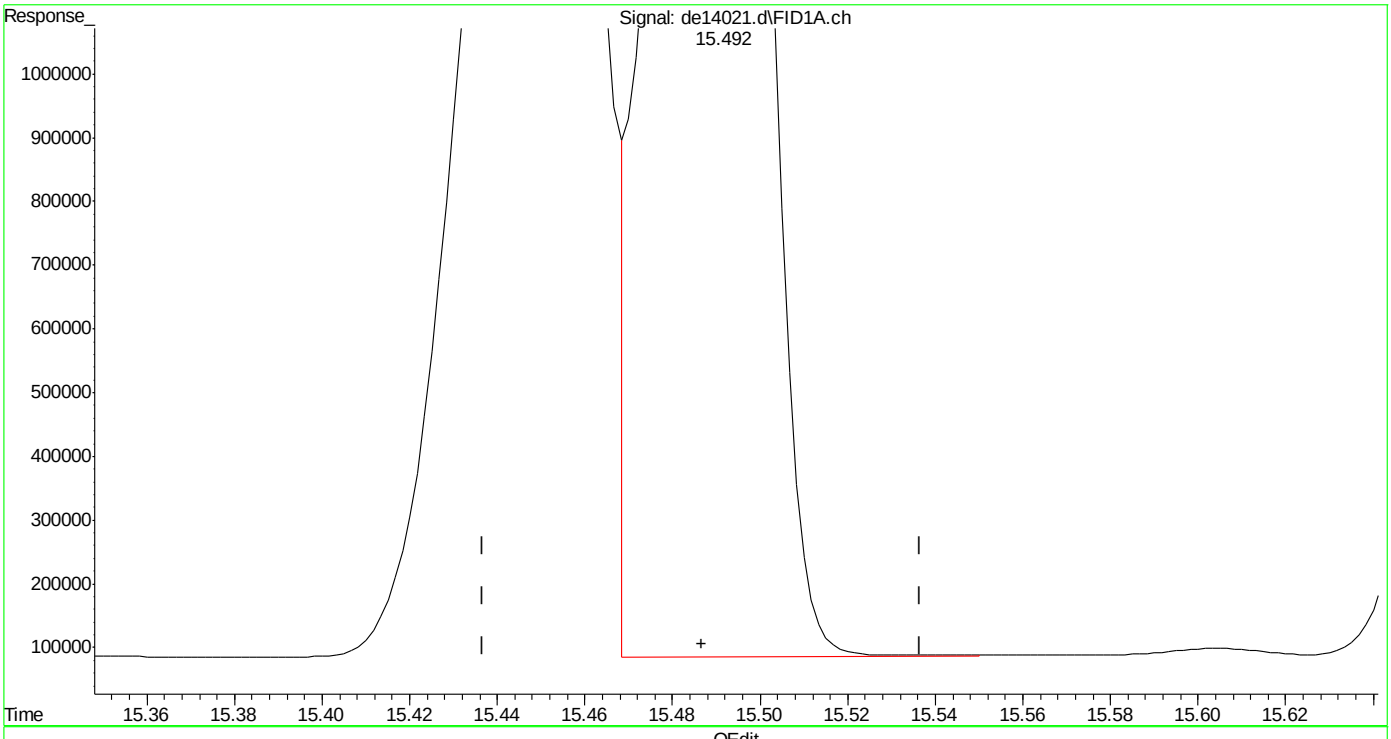
(+) = Expected Retention Time
EPH160504W.M Wed May 04 13:25:34 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160504EPH\
Data File : de14021.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 May 2016 1:01 pm
Operator : thomasa
Sample : ecc735-50, gde784
Misc : op47292,gde784,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 04 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160504W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 04 09:51:35 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
15.492min 49.855 µg/ml m
response 4556725

(+) = Expected Retention Time

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160509EPH\
Data File : de14046.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 9 May 2016 12:34 pm
Operator : thomasa
Sample : cc735-50,gde787
Misc : op47259,gde787,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 09 12:58:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 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	6.695	4993962	54.147 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 270.74%#	
6) s 2-bromonaphthalene	7.427	3314954	52.824 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 264.12%#	
11) s o-terphenyl	9.968	5433311	53.046 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 265.23%#	
35) s 1-chlorooctadecane	11.228	3036567	53.673 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 268.37%#	
Target Compounds			
2) naphthalene	5.245	5642638	54.708 µg/ml
3) 2-methylnaphthalene	6.143	5581754	54.466 µg/ml
5) acenaphthylene	7.260	5407341	53.750 µg/ml
7) acenaphthene	7.502	5693661	55.077 µg/ml
8) fluorene	8.148	5480272	53.957 µg/ml
9) phenanthrene	9.332	5391798	52.984 µg/ml
10) anthracene	9.390	5197219	53.575 µg/ml
12) fluoranthene	10.840	5263734	52.668 µg/ml
13) pyrene	11.098	5375614	52.981 µg/ml
14) benzo(a)anthracene	12.665	5027529	52.004 µg/ml
15) chrysene	12.713	5067761	52.062 µg/ml
16) benzo(B)fluoranthene	13.970	5258476	53.115 µg/ml
17) benzo(k)fluoranthene	13.998	4918411	52.045 µg/ml
18) benzo(a)pyrene	14.305	4830623	52.259 µg/ml
19) indeno(1,2,3-cd)pyrene	15.448	5019058	53.023 µg/ml
20) dibenzo(ah)anthracene	15.490	4711151	51.545 µg/ml
21) benzo(ghi)perylene	15.672	4810697	52.220 µg/ml
25) h c-9	2.648	3896000	52.740 µg/mlm
26) h c-10	3.815	3978497	53.857 µg/ml
27) naphthalene #2	5.490	4247546	53.179 µg/ml
28) c-12	5.667	3968576	53.722 µg/ml
29) 2-methylnaphthalene #2	6.383	4247496	52.720 µg/ml
30) c-14	7.183	3937303	53.299 µg/ml
31) c-16	8.515	3899585	52.788 µg/ml
32) c-18	9.708	3909034	52.916 µg/ml
33) c-19	10.263	3861716	57.805 µg/ml
34) c-20	10.793	3788289	56.705 µg/ml
36) c-22	11.790	3766626	56.381 µg/ml
37) c-24	12.707	3502629	52.430 µg/ml
38) c-26	13.560	3713895	55.592 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160509EPH\
Data File : de14046.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 9 May 2016 12:34 pm
Operator : thomasa
Sample : cc735-50,gde787
Misc : op47259,gde787,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 09 12:58:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 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	14.352	3573519	53.491	µg/ml
40) h	c-30	15.098	3554103	53.200	µg/ml
41) h	c-36	17.008	2930439	43.865	µg/mlm

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

9.5.13

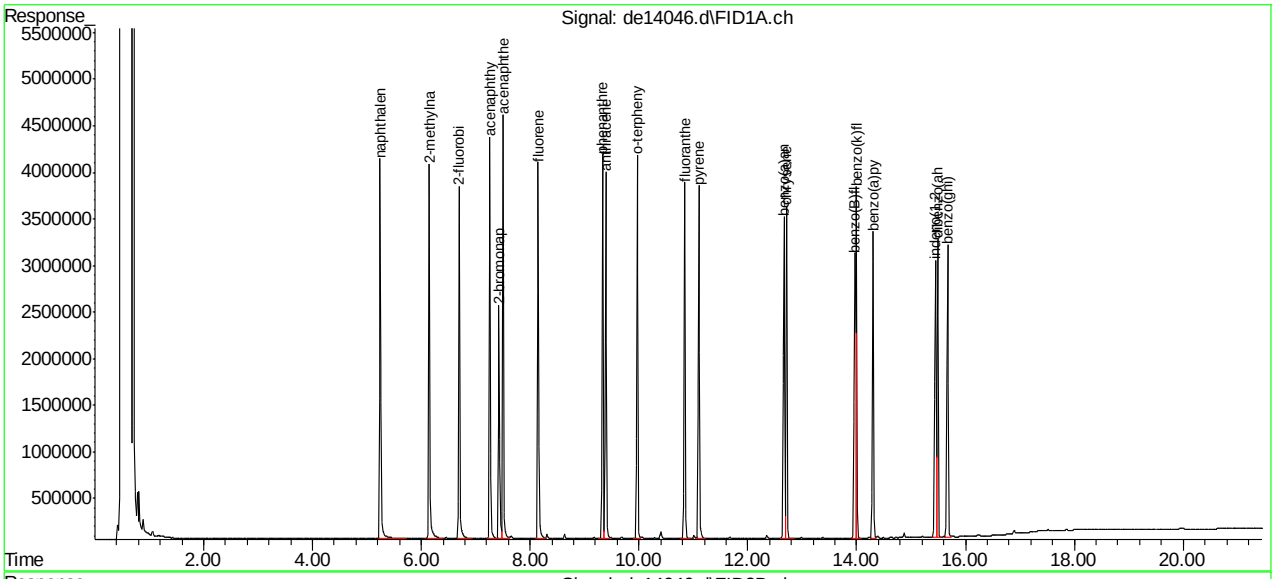
9

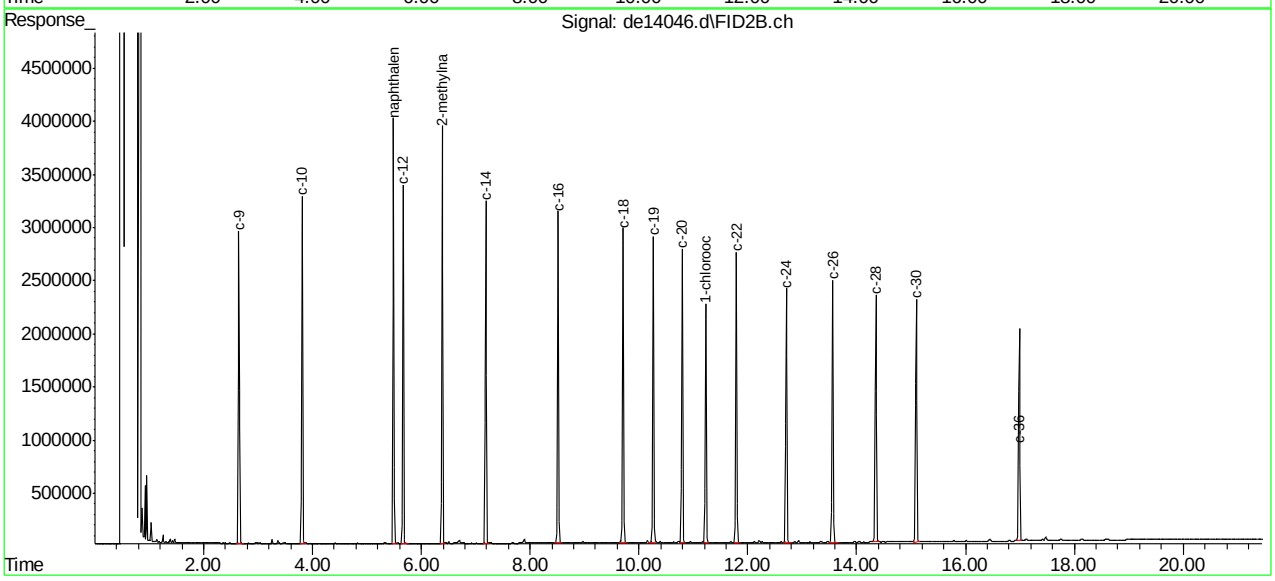
Quantitation Report (QT Reviewed)

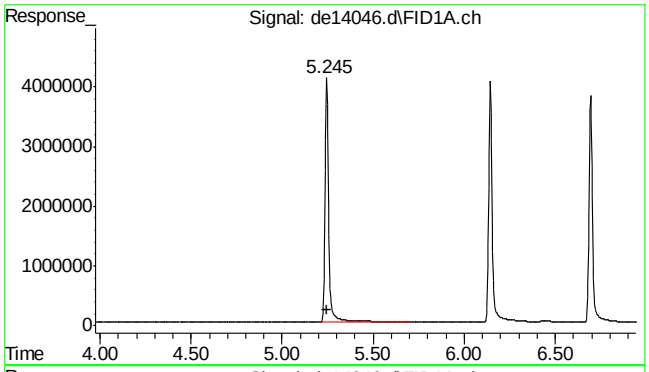
Data Path : C:\msdchem\1\DATA\DE160509EPH\
Data File : de14046.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 9 May 2016 12:34 pm
Operator : thomasa
Sample : cc735-50,gde787
Misc : op47259,gde787,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 09 12:58:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 2016
Response via : Initial Calibration
Integrator: RTE

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

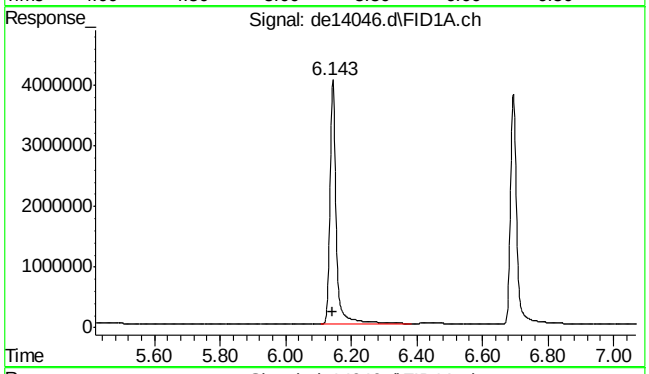






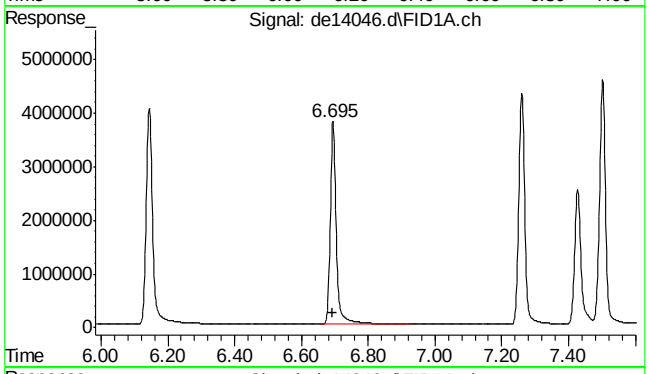
#2 naphthalene

R.T.: 5.245 min
Delta R.T.: 0.000 min
Response: 5642638
Conc: 54.71 µg/ml



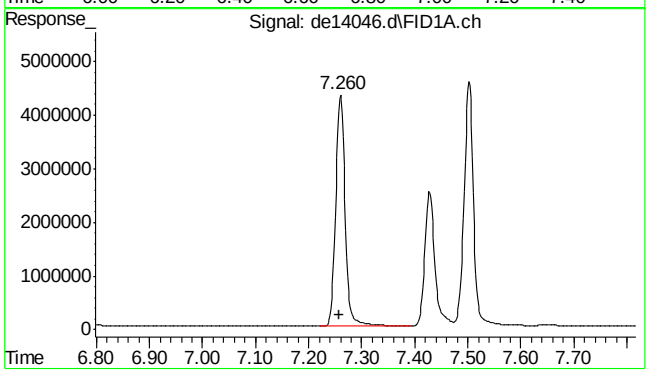
#3 2-methylnaphthalene

R.T.: 6.143 min
Delta R.T.: 0.000 min
Response: 5581754
Conc: 54.47 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.695 min
Delta R.T.: 0.002 min
Response: 4993962
Conc: 54.15 µg/ml



#5 acenaphthylene

R.T.: 7.260 min
Delta R.T.: 0.002 min
Response: 5407341
Conc: 53.75 µg/ml

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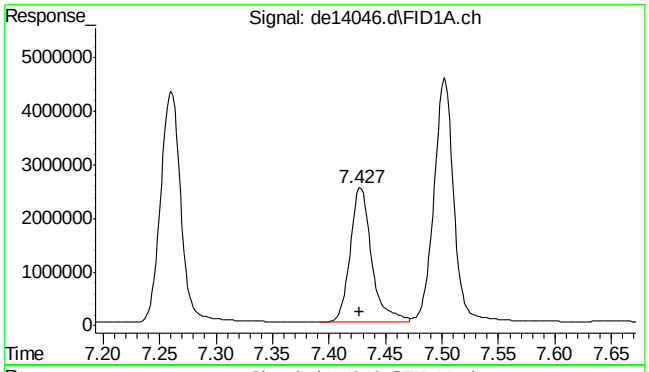
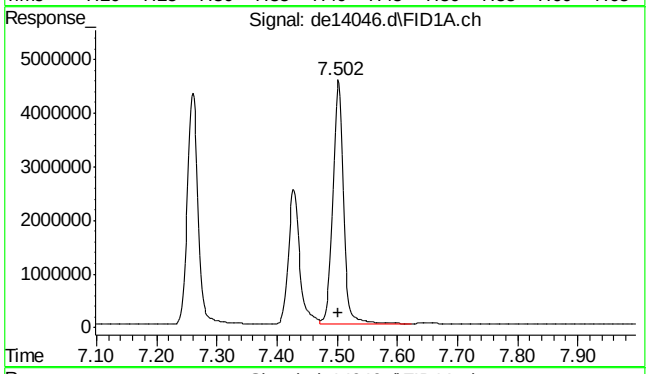


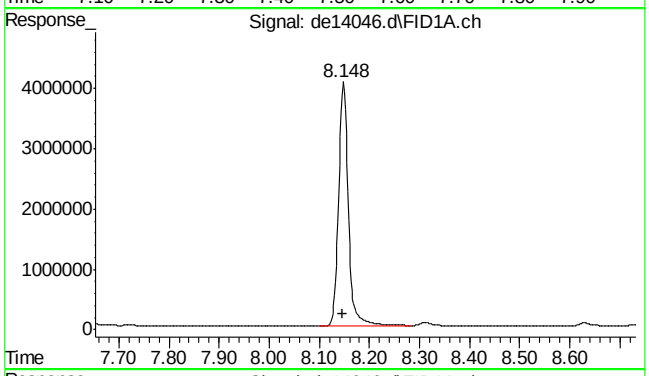
#6 2-bromonaphthalene

R.T.: 7.427 min
Delta R.T.: 0.000 min
Response: 3314954
Conc: 52.82 µg/ml



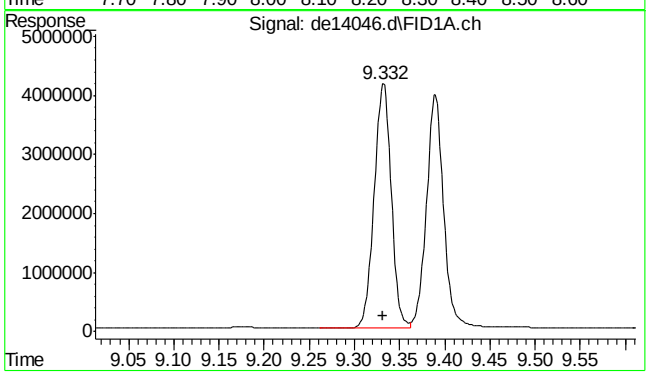
#7 acenaphthene

R.T.: 7.502 min
Delta R.T.: 0.000 min
Response: 5693661
Conc: 55.08 µg/ml



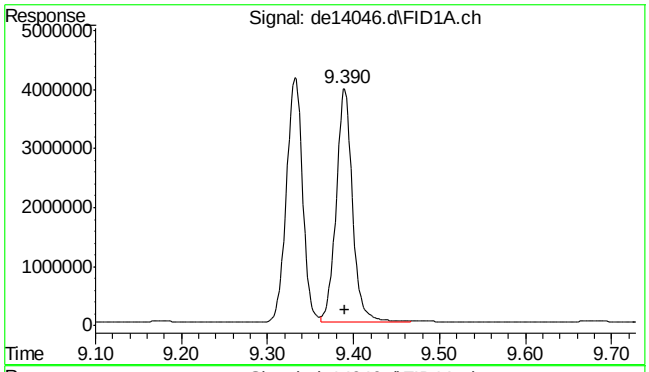
#8 fluorene

R.T.: 8.148 min
Delta R.T.: 0.002 min
Response: 5480272
Conc: 53.96 µg/ml



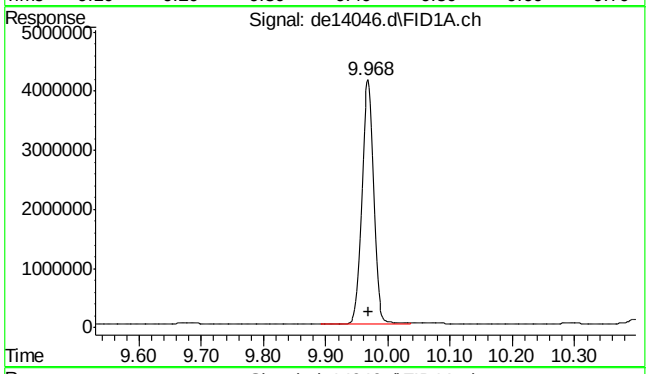
#9 phenanthrene

R.T.: 9.332 min
Delta R.T.: 0.000 min
Response: 5391798
Conc: 52.98 µg/ml



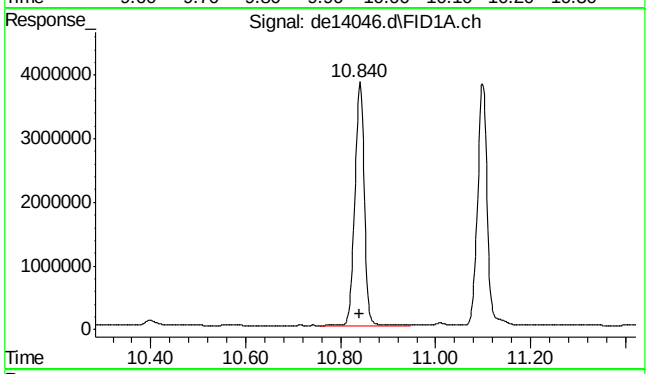
#10 anthracene

R.T.: 9.390 min
Delta R.T.: 0.000 min
Response: 5197219
Conc: 53.58 µg/ml



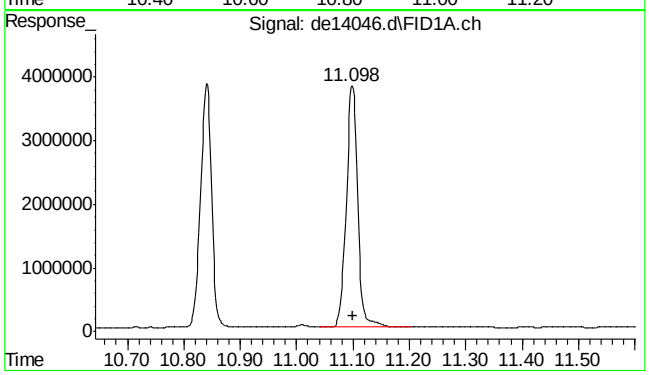
#11 o-terphenyl

R.T.: 9.968 min
Delta R.T.: 0.000 min
Response: 5433311
Conc: 53.05 µg/ml



#12 fluoranthene

R.T.: 10.840 min
Delta R.T.: 0.000 min
Response: 5263734
Conc: 52.67 µg/ml



#13 pyrene

R.T.: 11.098 min
Delta R.T.: -0.002 min
Response: 5375614
Conc: 52.98 µg/ml

9.5.13

9

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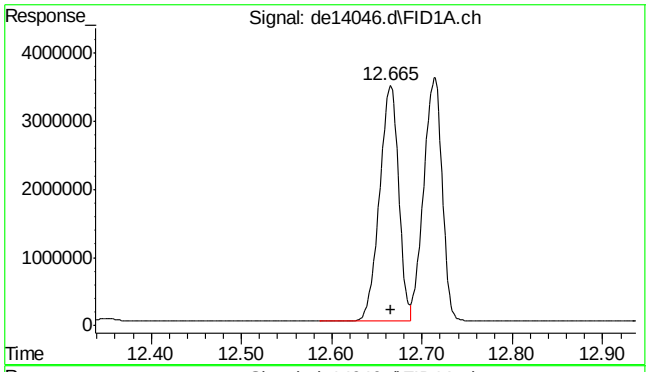
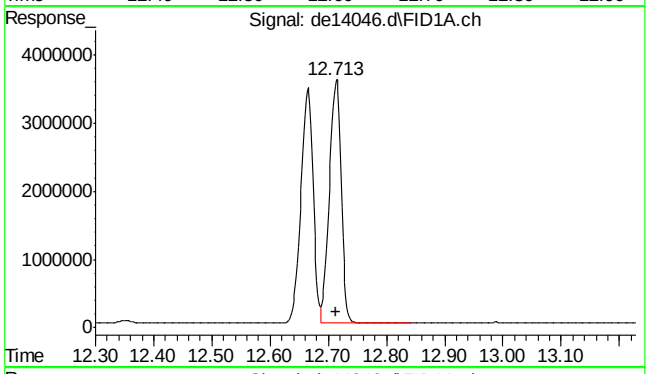


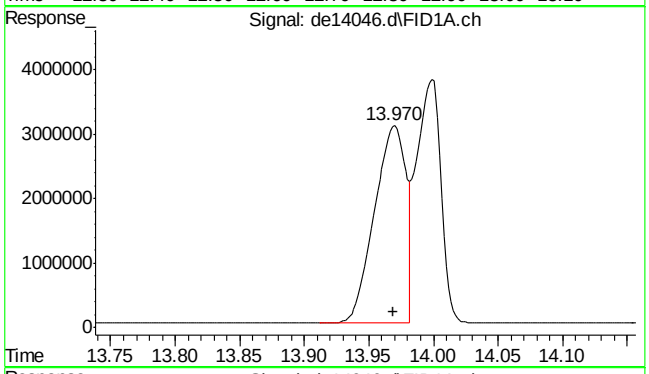
#14 benzo(a)anthracene

R.T.: 12.665 min
Delta R.T.: 0.000 min
Response: 5027529
Conc: 52.00 µg/ml



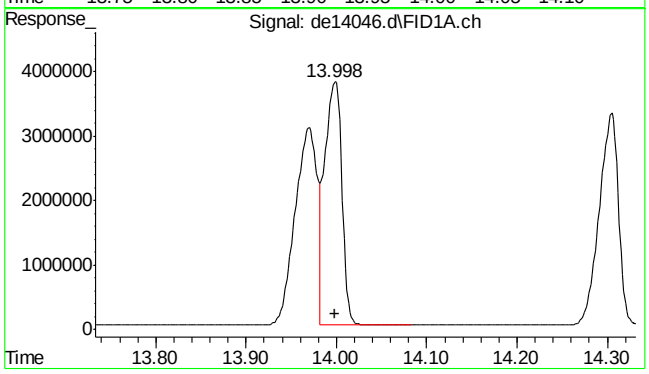
#15 chrysene

R.T.: 12.713 min
Delta R.T.: 0.000 min
Response: 5067761
Conc: 52.06 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.970 min
Delta R.T.: 0.002 min
Response: 5258476
Conc: 53.11 µg/ml



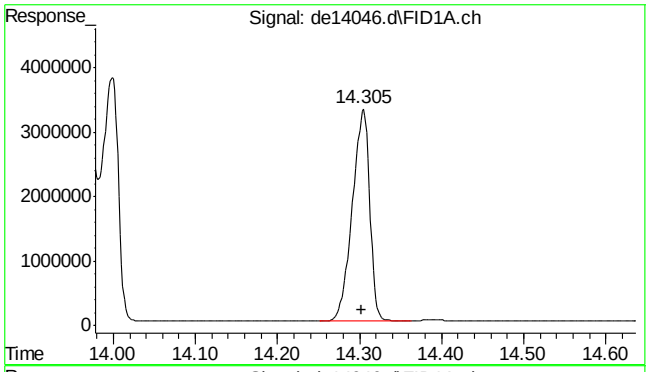
#17 benzo(k)fluoranthene

R.T.: 13.998 min
Delta R.T.: 0.000 min
Response: 4918411
Conc: 52.05 µg/ml

9.5.13

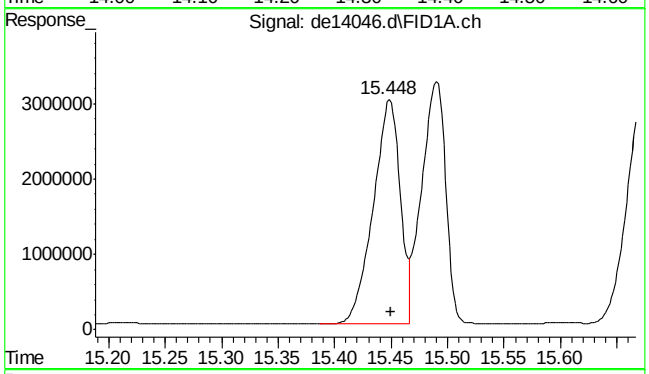
9

SGS ACCUTEST MC45538



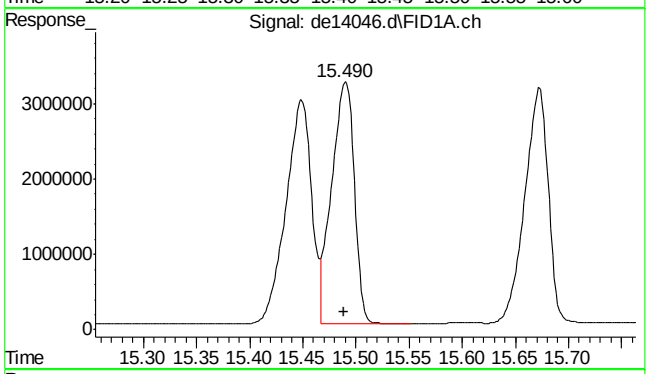
#18 benzo(a)pyrene

R.T.: 14.305 min
Delta R.T.: 0.002 min
Response: 4830623
Conc: 52.26 µg/ml



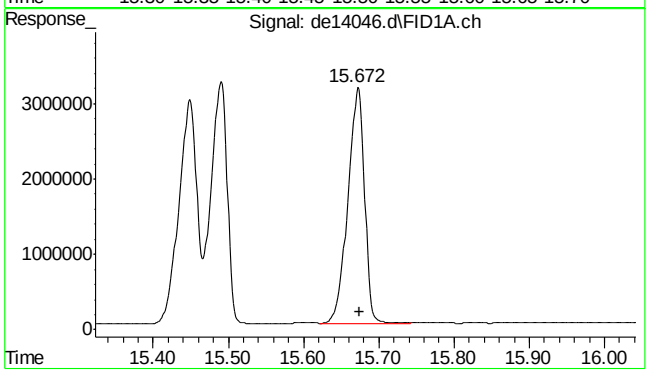
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.448 min
Delta R.T.: -0.002 min
Response: 5019058
Conc: 53.02 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.490 min
Delta R.T.: 0.002 min
Response: 4711151
Conc: 51.54 µg/ml



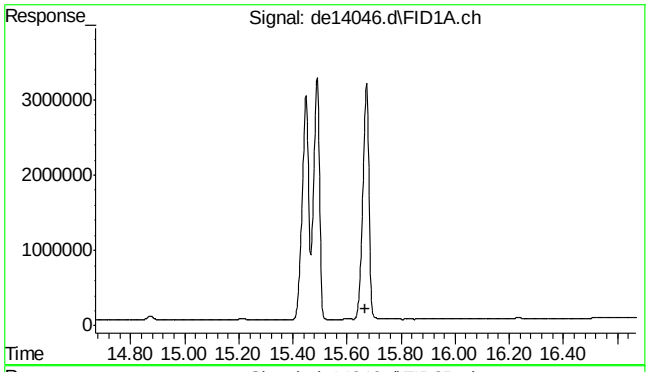
#21 benzo(ghi)perylene

R.T.: 15.672 min
Delta R.T.: -0.003 min
Response: 4810697
Conc: 52.22 µg/ml

9.5.13

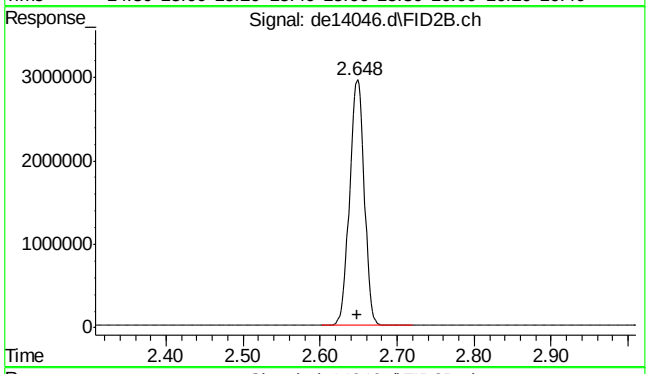
9

SGS ACCUTEST MC45538



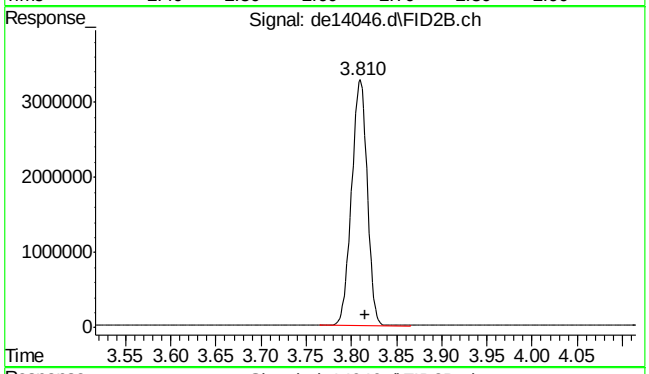
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



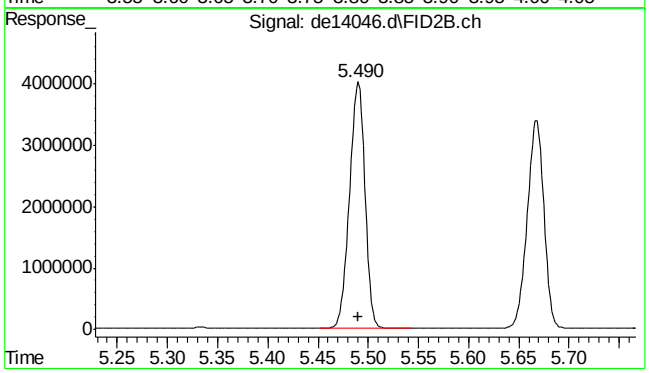
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3896000
Conc: 52.74 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3978497
Conc: 53.86 µg/ml



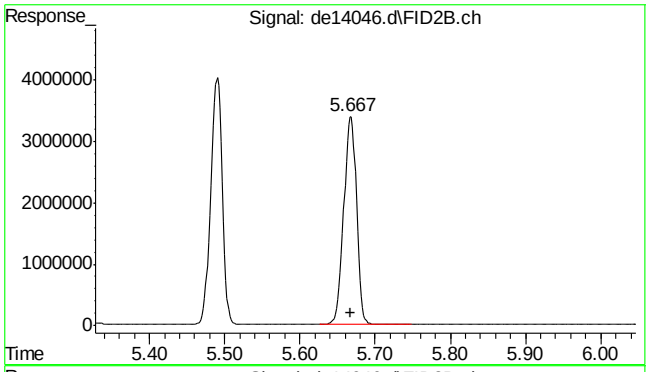
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: 0.000 min
Response: 4247546
Conc: 53.18 µg/ml

9.5.13

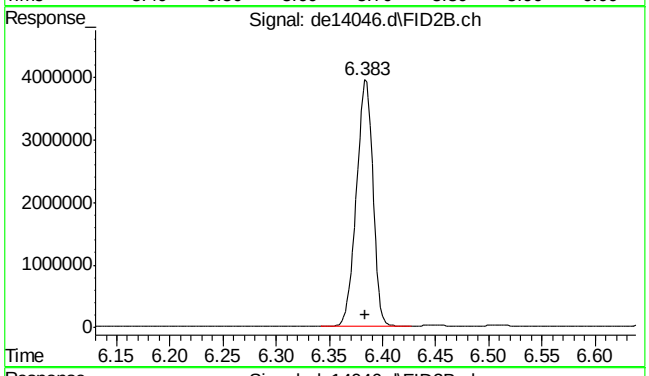
9

SGS ACCUTEST MC45538



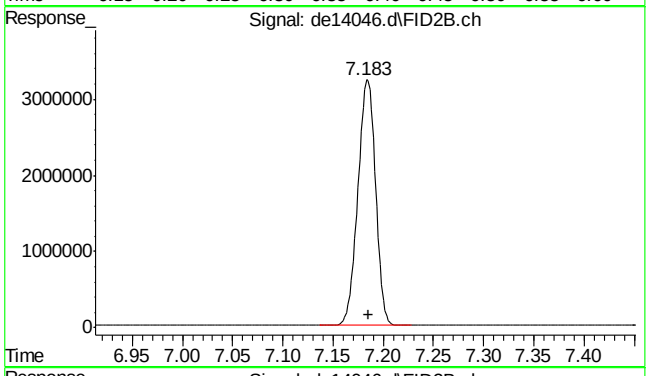
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 3968576
Conc: 53.72 µg/ml



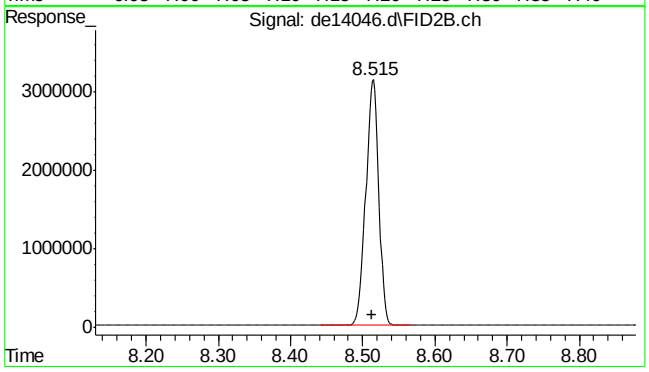
#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 4247496
Conc: 52.72 µg/ml



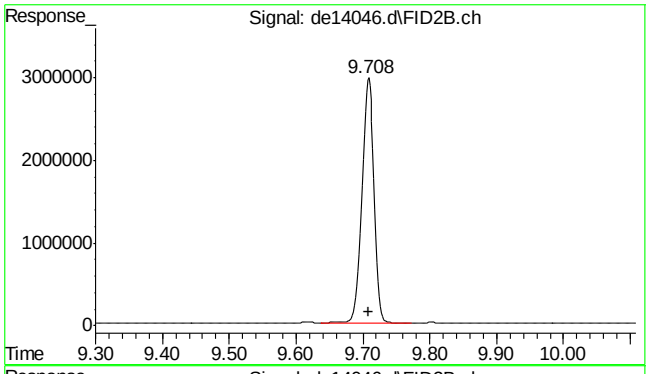
#30 c-14

R.T.: 7.183 min
Delta R.T.: -0.002 min
Response: 3937303
Conc: 53.30 µg/ml



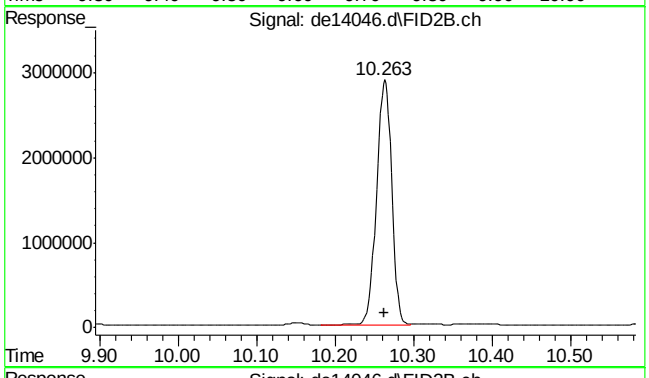
#31 c-16

R.T.: 8.515 min
Delta R.T.: 0.002 min
Response: 3899585
Conc: 52.79 µg/ml



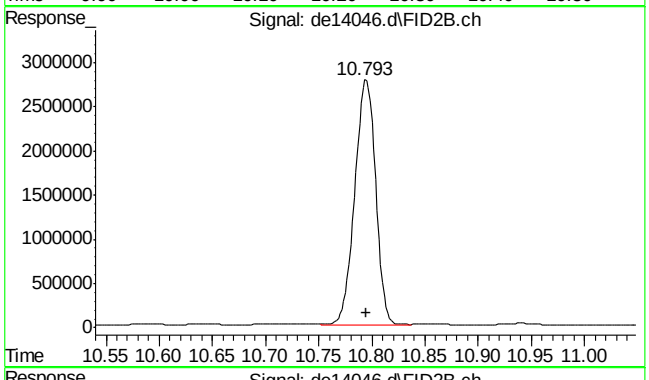
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 3909034
Conc: 52.92 µg/ml



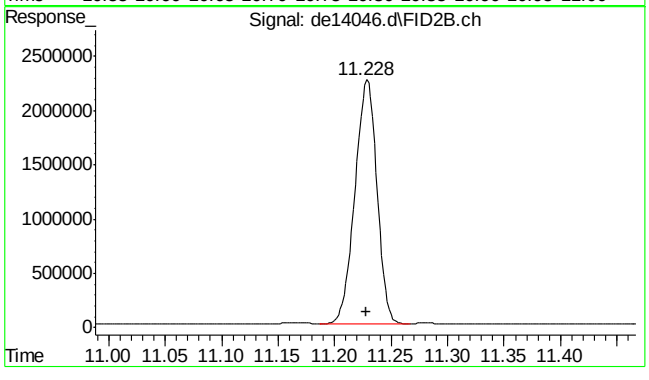
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3861716
Conc: 57.80 µg/ml



#34 c-20

R.T.: 10.793 min
Delta R.T.: -0.002 min
Response: 3788289
Conc: 56.71 µg/ml



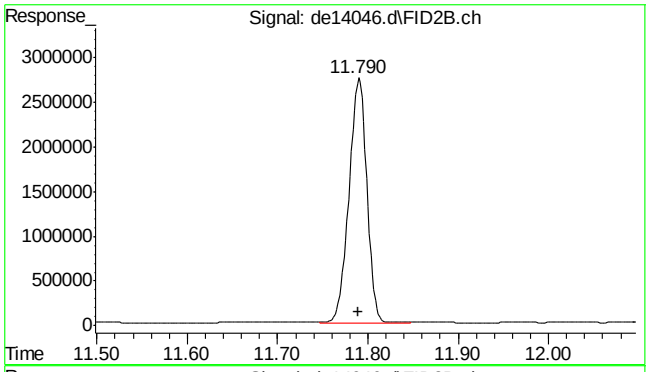
#35 1-chlorooctadecane

R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3036567
Conc: 53.67 µg/ml

9.5.13

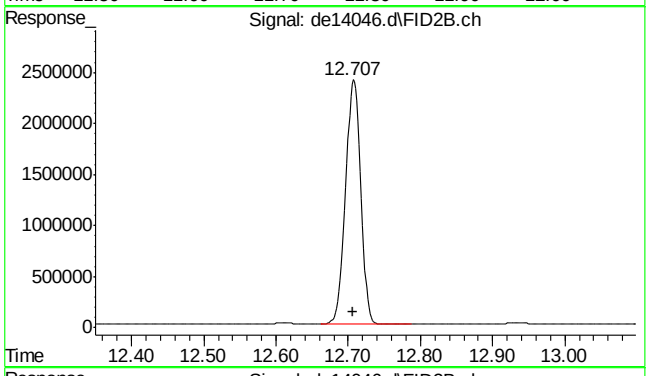
9

SGS ACCUTEST MC45538



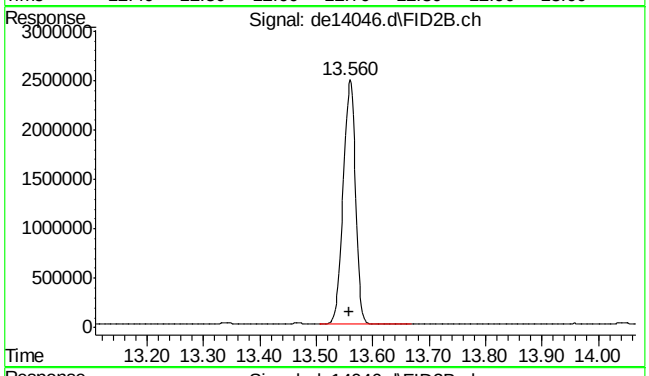
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 3766626
Conc: 56.38 µg/ml



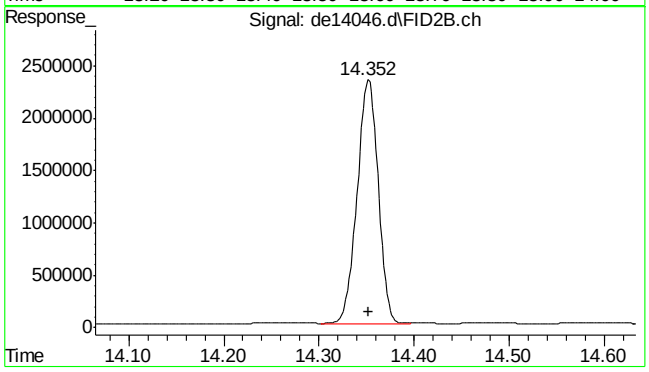
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 3502629
Conc: 52.43 µg/ml



#38 c-26

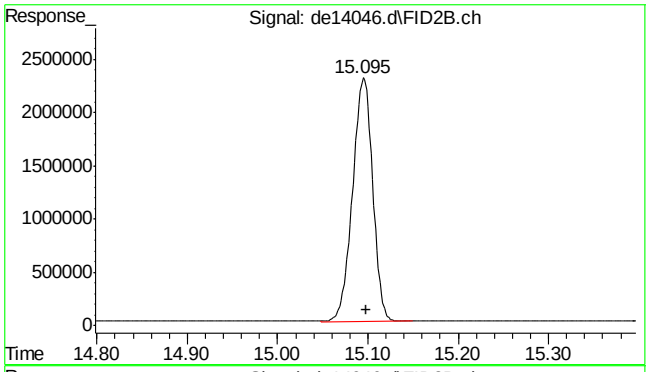
R.T.: 13.560 min
Delta R.T.: 0.002 min
Response: 3713895
Conc: 55.59 µg/ml



#39 c-28

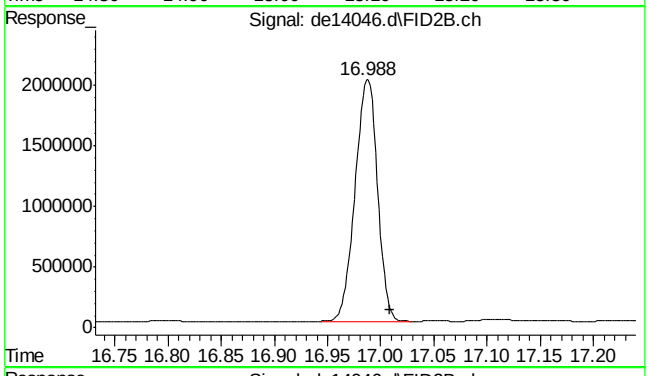
R.T.: 14.352 min
Delta R.T.: 0.000 min
Response: 3573519
Conc: 53.49 µg/ml

SGS ACCUTEST MC45538



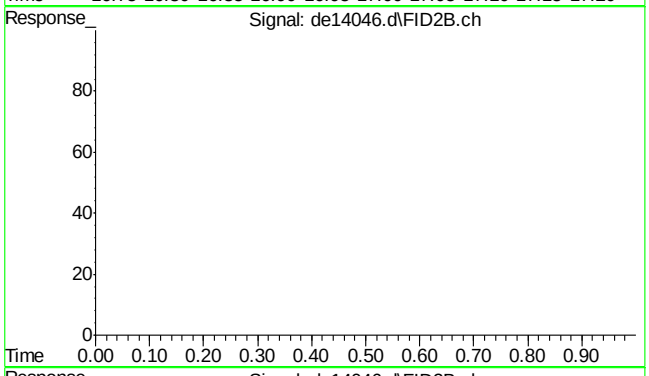
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3554103
Conc: 53.20 µg/ml



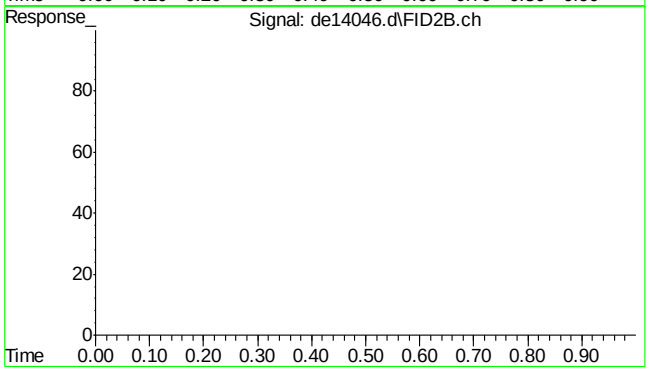
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 2930439
Conc: 43.86 µg/ml m



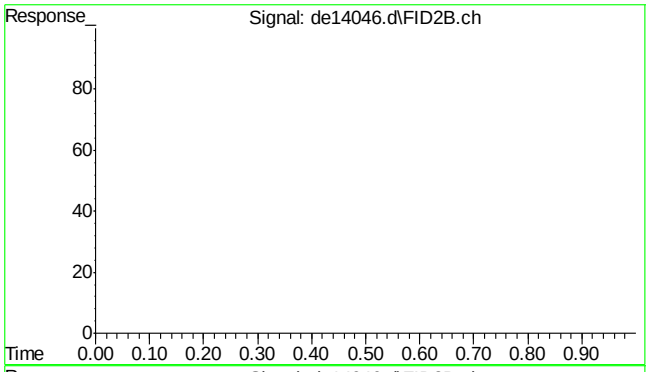
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



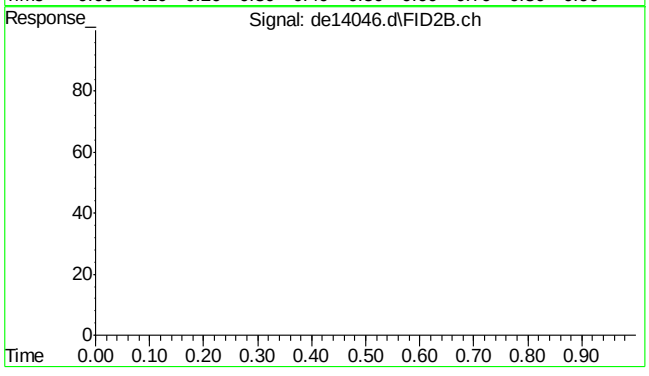
#43 bht

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.
```

9.5.13

9

SGS ACCUTEST MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160509EPH\
Data File : de14053.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 9 May 2016 3:51 pm
Operator : thomasa
Sample : ecc735-50,gde787
Misc : op47259,gde787,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 10 08:50:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 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	6.693	5288241	57.338 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 286.69%#	
6) s 2-bromonaphthalene	7.427	3485423	55.540 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 277.70%#	
11) s o-terphenyl	9.967	5673744	55.393 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 276.96%#	
35) s 1-chlorooctadecane	11.228	3021046	53.399 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 267.00%#	
Target Compounds			
2) naphthalene	5.243	5990435	58.081 µg/ml
3) 2-methylnaphthalene	6.143	5803617	56.631 µg/ml
5) acenaphthylene	7.258	5703930	56.698 µg/ml
7) acenaphthene	7.502	5989230	57.936 µg/ml
8) fluorene	8.148	5754167	56.654 µg/ml
9) phenanthrene	9.332	5634152	55.365 µg/ml
10) anthracene	9.388	5464150	56.327 µg/ml
12) fluoranthene	10.840	5489569	54.928 µg/ml
13) pyrene	11.098	5604974	55.242 µg/ml
14) benzo(a)anthracene	12.663	5218036	53.975 µg/ml
15) chrysene	12.713	5291622	54.362 µg/ml
16) benzo(B)fluoranthene	13.965	5365987	54.201 µg/ml
17) benzo(k)fluoranthene	13.997	5217241	55.207 µg/ml
18) benzo(a)pyrene	14.303	5019418	54.302 µg/ml
19) indeno(1,2,3-cd)pyrene	15.448	5175902	54.680 µg/ml
20) dibenzo(ah)anthracene	15.488	4891386	53.517 µg/ml
21) benzo(ghi)perylene	15.673	4968865	53.937 µg/ml
25) h c-9	2.648	3838962	51.968 µg/mlm
26) h c-10	3.815	3926119	53.147 µg/ml
27) naphthalene #2	5.488	4190525	52.465 µg/ml
28) c-12	5.667	3921960	53.091 µg/ml
29) 2-methylnaphthalene #2	6.383	4199603	52.126 µg/ml
30) c-14	7.185	3895693	52.736 µg/ml
31) c-16	8.513	3855181	52.187 µg/ml
32) c-18	9.707	3861288	52.270 µg/ml
33) c-19	10.263	3822594	57.219 µg/ml
34) c-20	10.793	3756210	56.225 µg/ml
36) c-22	11.790	3735677	55.918 µg/ml
37) c-24	12.707	3492596	52.279 µg/ml
38) c-26	13.560	3719575	55.677 µg/ml

SGS ACCUTEST MC45538

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160509EPH\
Data File : de14053.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 9 May 2016 3:51 pm
Operator : thomasa
Sample : ecc735-50,gde787
Misc : op47259,gde787,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 10 08:50:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 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	14.352	3594393	53.803	µg/ml
40) h	c-30	15.098	3588372	53.713	µg/ml
41) h	c-36	17.008	2998265	44.880	µg/mlm

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

9.5.14

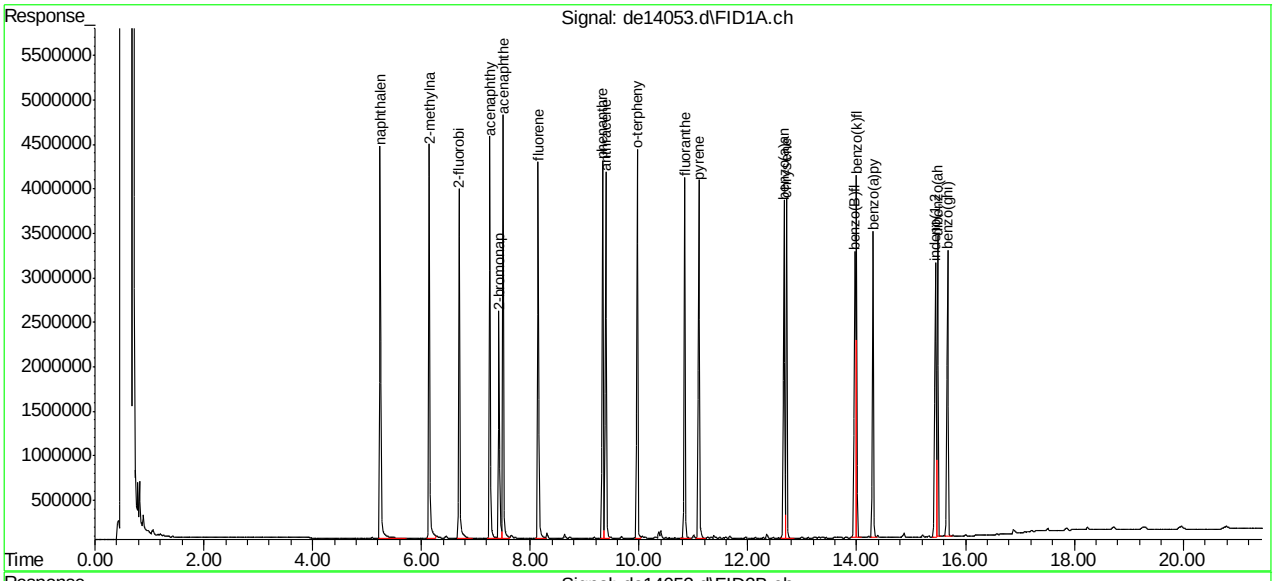
9

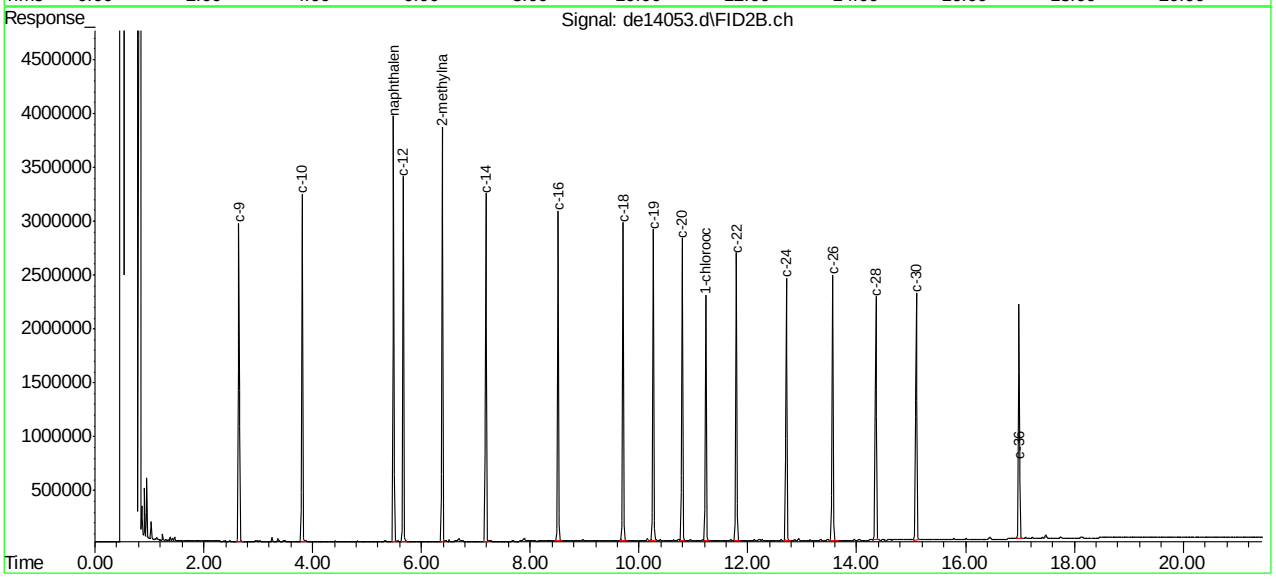
Quantitation Report (QT Reviewed)

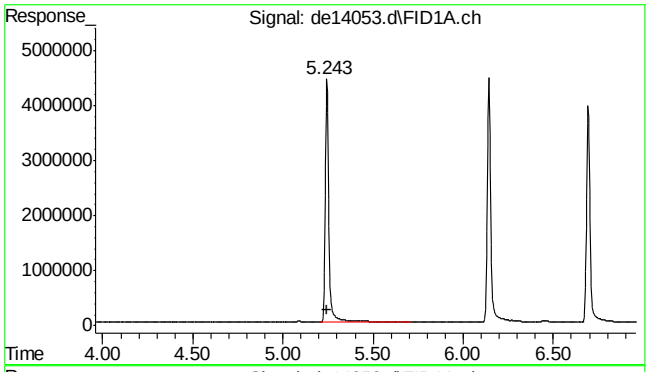
Data Path : C:\msdchem\1\DATA\DE160509EPH\
Data File : de14053.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 9 May 2016 3:51 pm
Operator : thomasa
Sample : ecc735-50,gde787
Misc : op47259,gde787,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 10 08:50:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160509W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 09 10:36:14 2016
Response via : Initial Calibration
Integrator: RTE

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

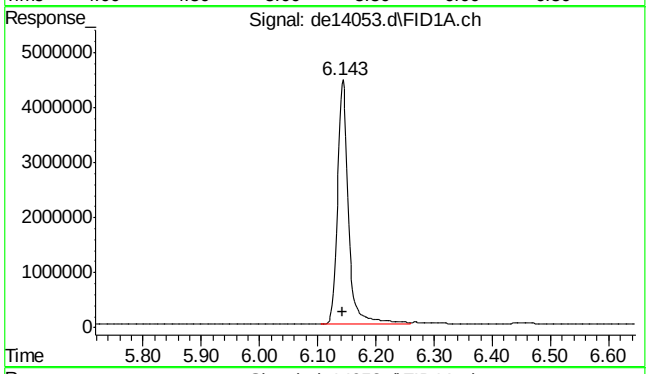






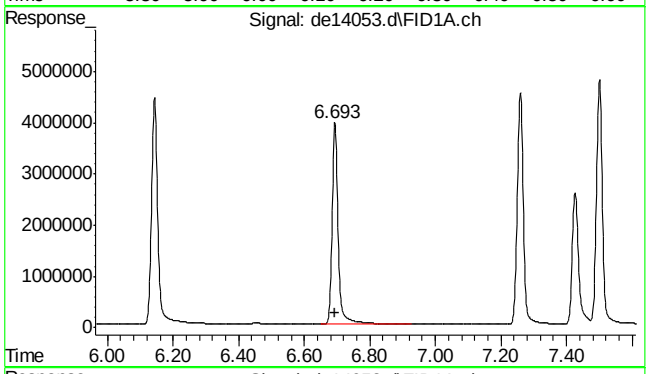
#2 naphthalene

R.T.: 5.243 min
Delta R.T.: -0.002 min
Response: 5990435
Conc: 58.08 µg/ml



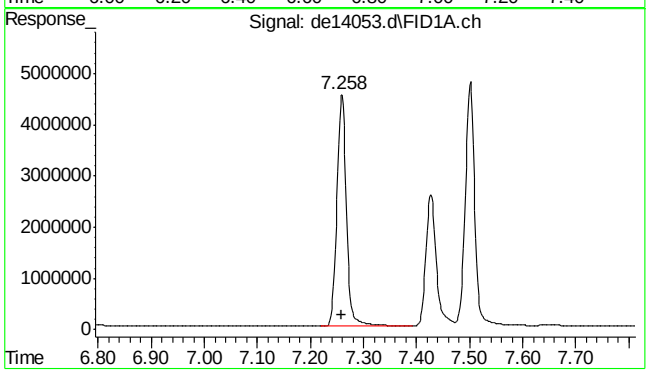
#3 2-methylnaphthalene

R.T.: 6.143 min
Delta R.T.: 0.000 min
Response: 5803617
Conc: 56.63 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.693 min
Delta R.T.: 0.000 min
Response: 5288241
Conc: 57.34 µg/ml



#5 acenaphthylene

R.T.: 7.258 min
Delta R.T.: 0.000 min
Response: 5703930
Conc: 56.70 µg/ml

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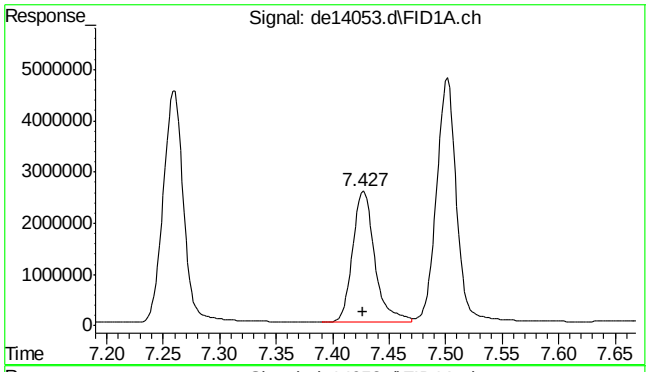
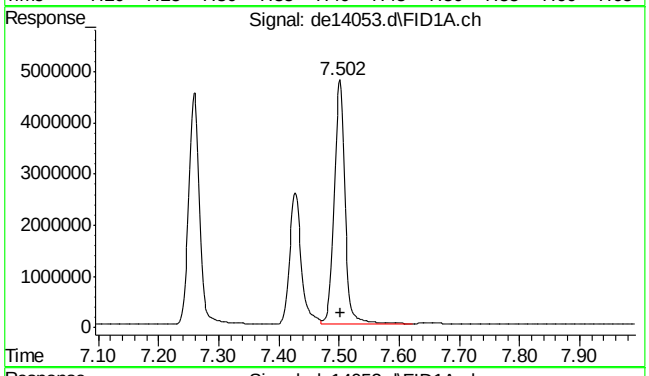


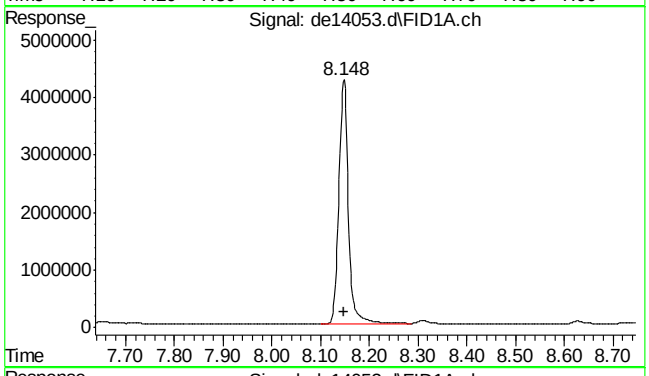
#6 2-bromonaphthalene

R.T.: 7.427 min
Delta R.T.: 0.000 min
Response: 3485423
Conc: 55.54 µg/ml



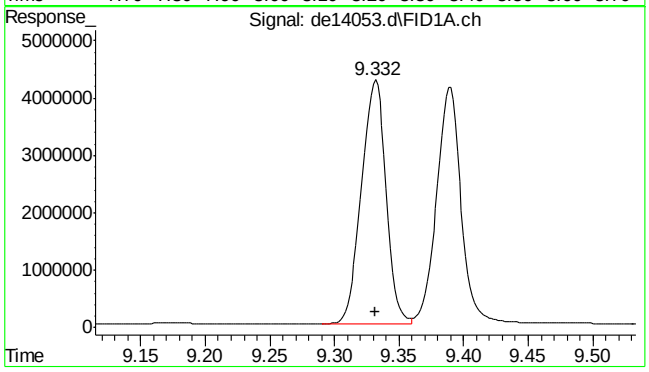
#7 acenaphthene

R.T.: 7.502 min
Delta R.T.: 0.000 min
Response: 5989230
Conc: 57.94 µg/ml



#8 fluorene

R.T.: 8.148 min
Delta R.T.: 0.002 min
Response: 5754167
Conc: 56.65 µg/ml



#9 phenanthrene

R.T.: 9.332 min
Delta R.T.: 0.000 min
Response: 5634152
Conc: 55.37 µg/ml

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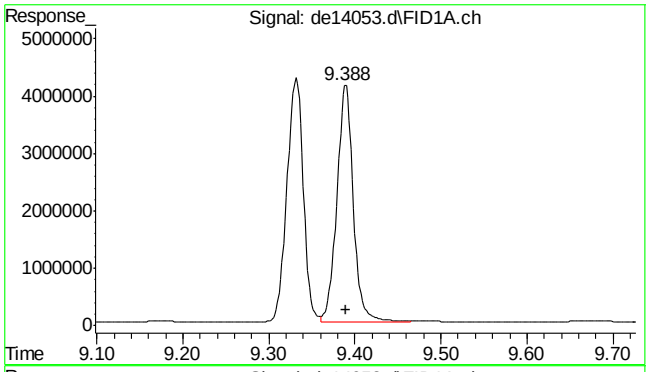
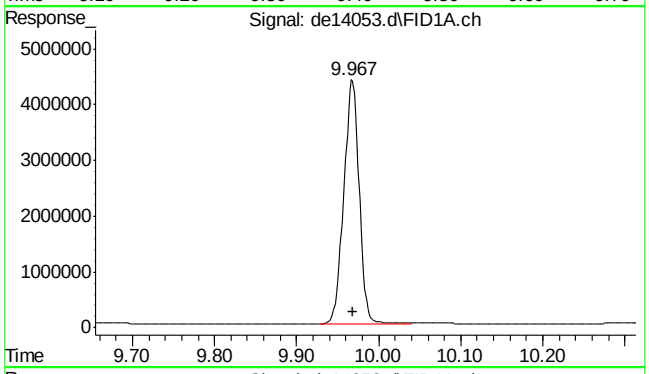


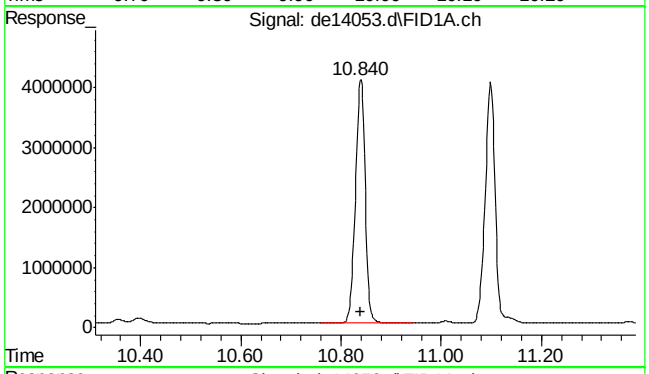
#10 anthracene

R.T.: 9.388 min
Delta R.T.: -0.002 min
Response: 5464150
Conc: 56.33 µg/ml



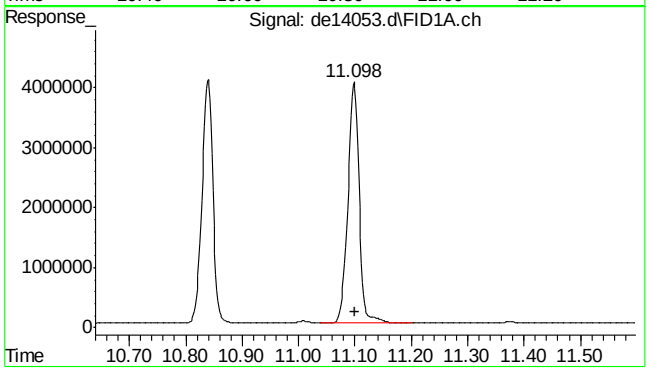
#11 o-terphenyl

R.T.: 9.967 min
Delta R.T.: -0.002 min
Response: 5673744
Conc: 55.39 µg/ml



#12 fluoranthene

R.T.: 10.840 min
Delta R.T.: 0.000 min
Response: 5489569
Conc: 54.93 µg/ml



#13 pyrene

R.T.: 11.098 min
Delta R.T.: -0.002 min
Response: 5604974
Conc: 55.24 µg/ml

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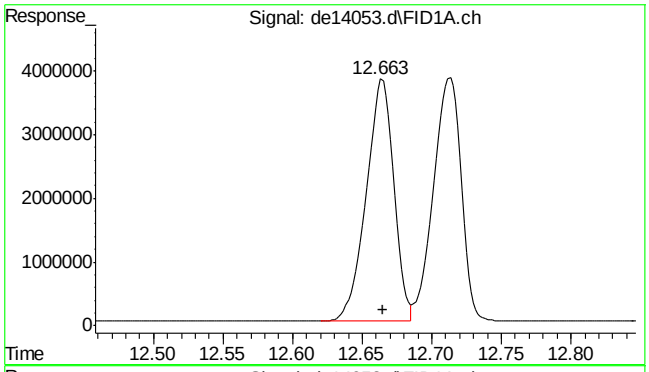
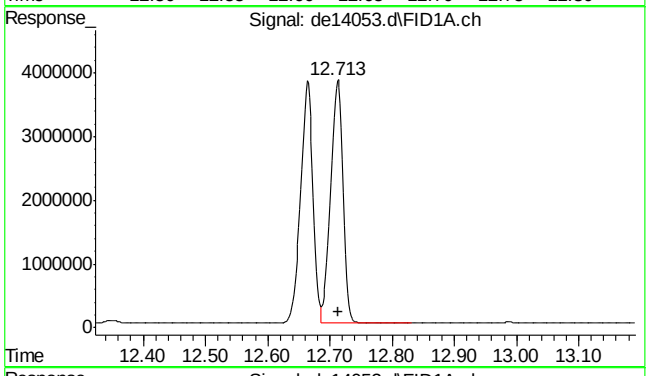


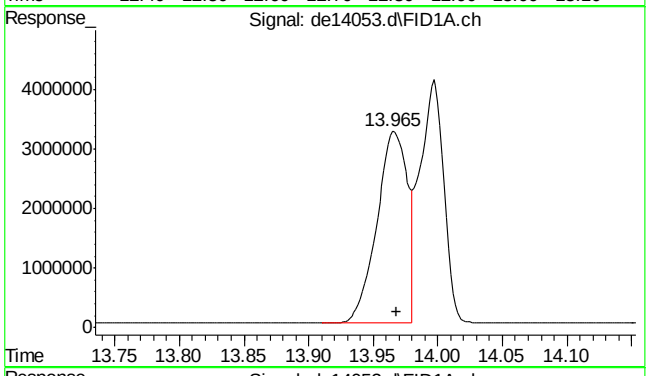
#14 benzo(a)anthracene

R.T.: 12.663 min
Delta R.T.: -0.002 min
Response: 5218036
Conc: 53.98 µg/ml



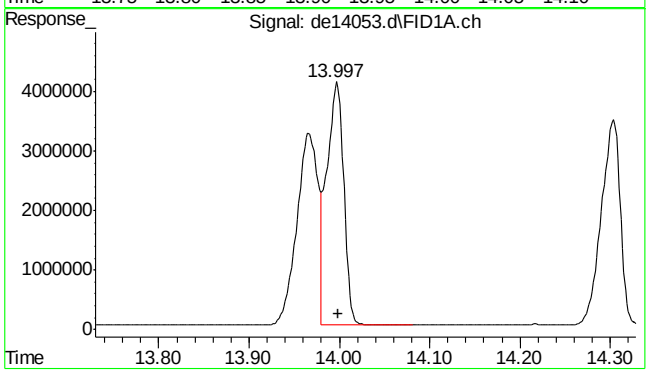
#15 chrysene

R.T.: 12.713 min
Delta R.T.: 0.000 min
Response: 5291622
Conc: 54.36 µg/ml



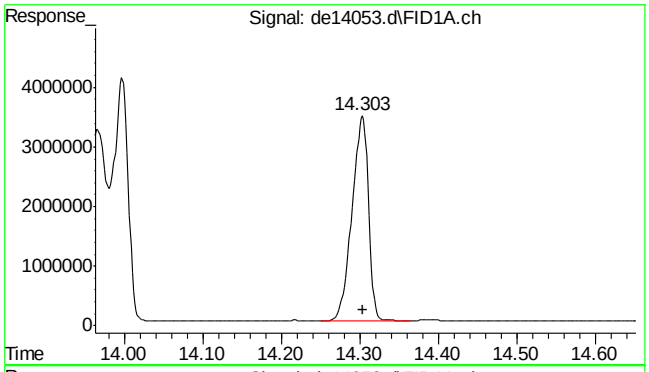
#16 benzo(B)fluoranthene

R.T.: 13.965 min
Delta R.T.: -0.003 min
Response: 5365987
Conc: 54.20 µg/ml



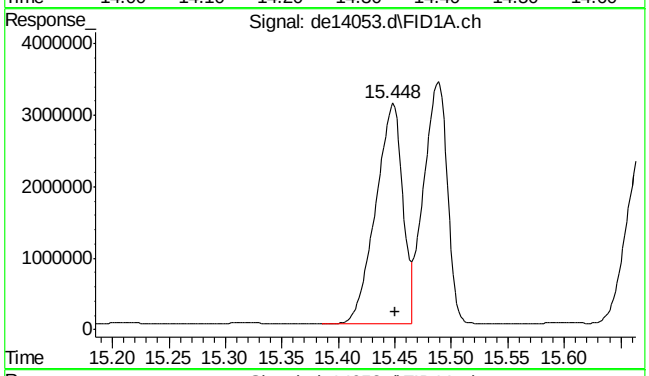
#17 benzo(k)fluoranthene

R.T.: 13.997 min
Delta R.T.: -0.002 min
Response: 5217241
Conc: 55.21 µg/ml



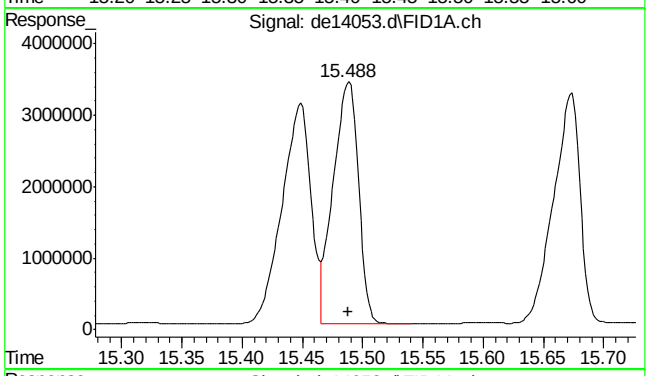
#18 benzo(a)pyrene

R.T.: 14.303 min
Delta R.T.: 0.000 min
Response: 5019418
Conc: 54.30 µg/ml



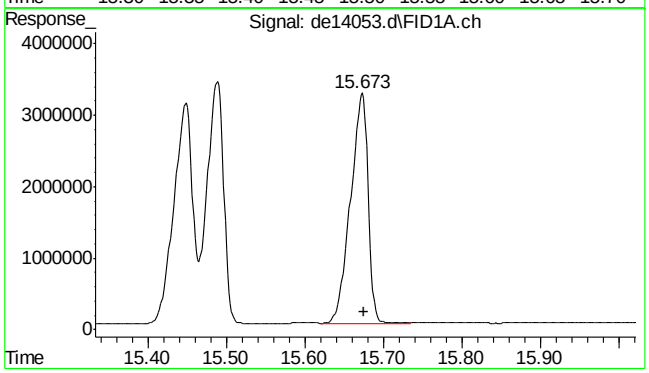
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.448 min
Delta R.T.: -0.002 min
Response: 5175902
Conc: 54.68 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.488 min
Delta R.T.: 0.000 min
Response: 4891386
Conc: 53.52 µg/ml



#21 benzo(ghi)perylene

R.T.: 15.673 min
Delta R.T.: -0.002 min
Response: 4968865
Conc: 53.94 µg/ml

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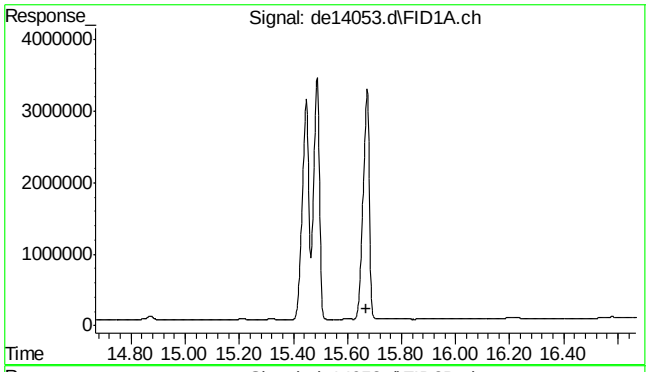
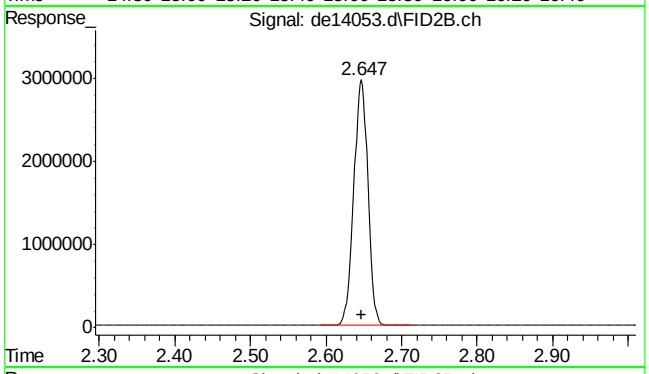


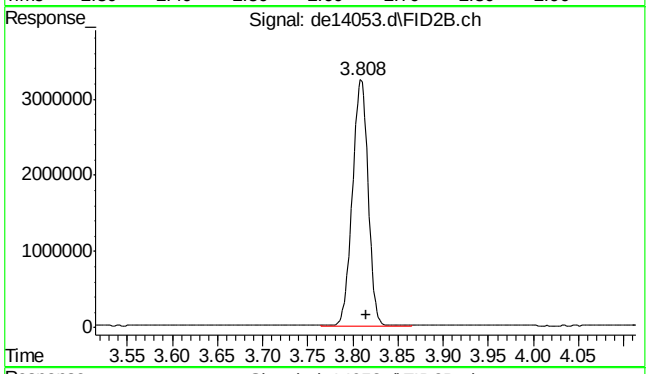
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



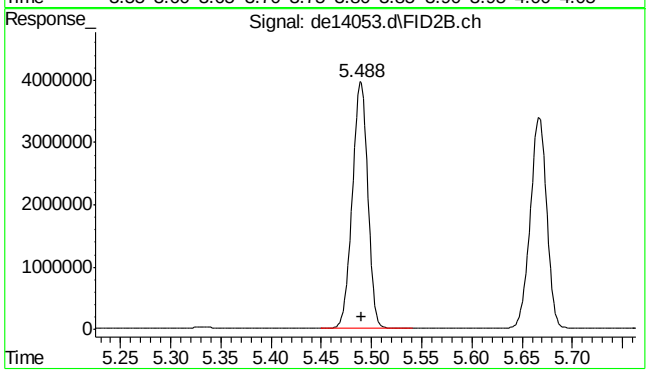
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3838962
Conc: 51.97 µg/ml m



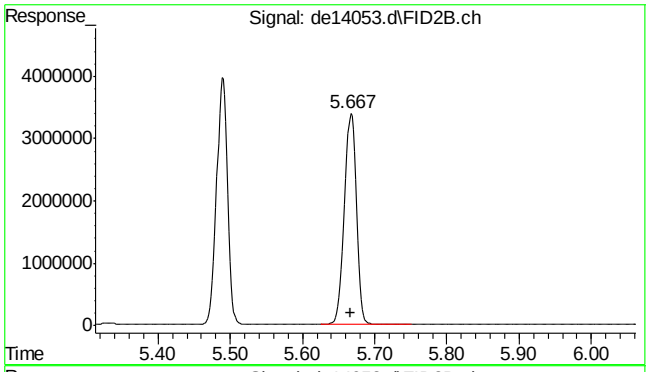
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3926119
Conc: 53.15 µg/ml



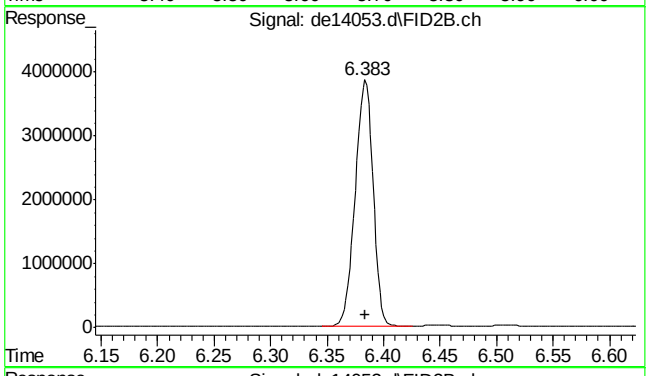
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: -0.002 min
Response: 4190525
Conc: 52.47 µg/ml



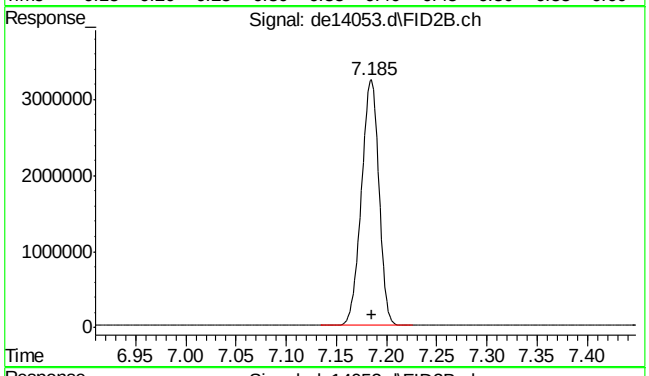
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 3921960
Conc: 53.09 µg/ml



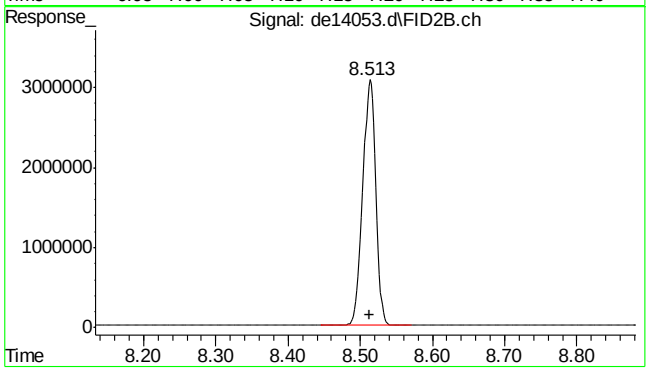
#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 4199603
Conc: 52.13 µg/ml



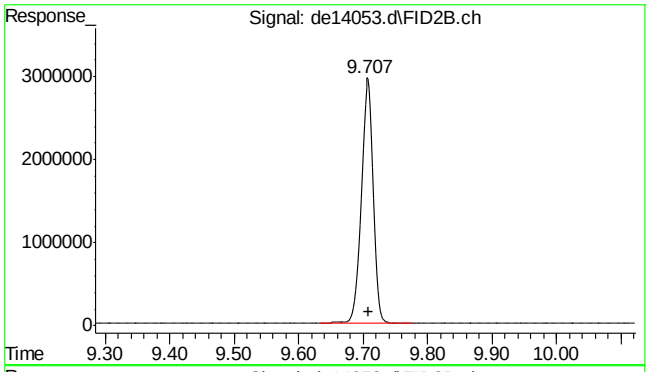
#30 c-14

R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 3895693
Conc: 52.74 µg/ml



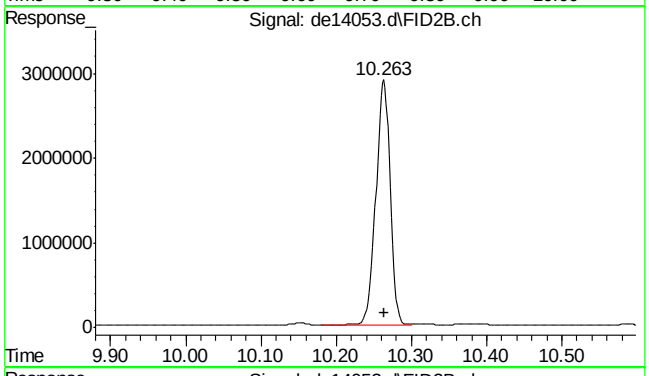
#31 c-16

R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 3855181
Conc: 52.19 µg/ml



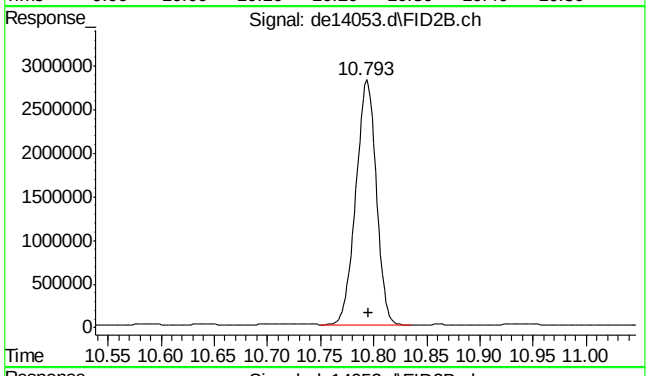
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 3861288
Conc: 52.27 µg/ml



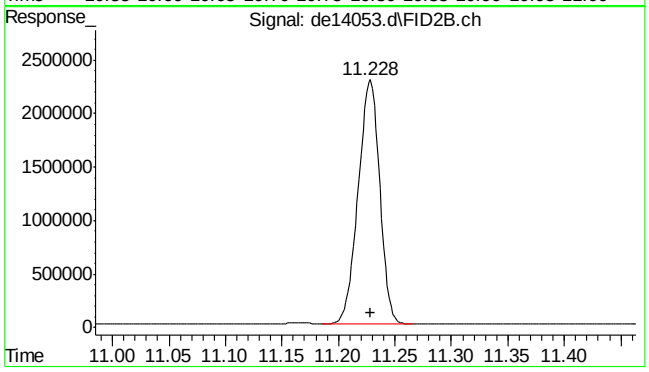
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3822594
Conc: 57.22 µg/ml



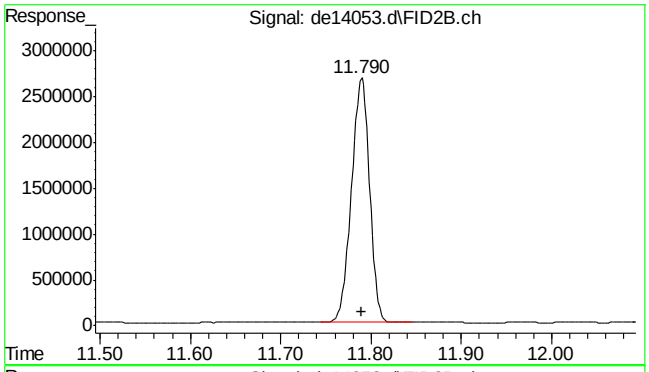
#34 c-20

R.T.: 10.793 min
Delta R.T.: -0.002 min
Response: 3756210
Conc: 56.23 µg/ml



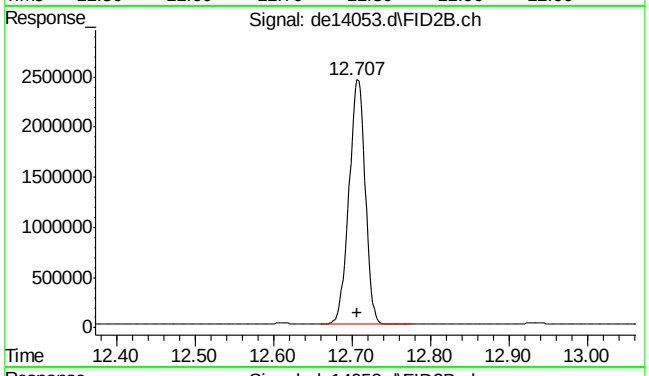
#35 1-chlorooctadecane

R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3021046
Conc: 53.40 µg/ml



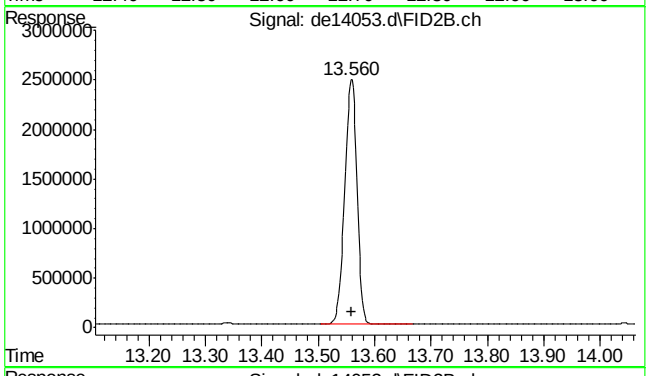
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 3735677
Conc: 55.92 µg/ml



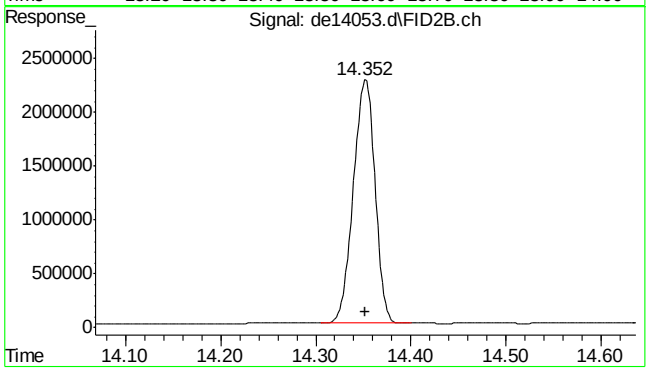
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 3492596
Conc: 52.28 µg/ml



#38 c-26

R.T.: 13.560 min
Delta R.T.: 0.002 min
Response: 3719575
Conc: 55.68 µg/ml



#39 c-28

R.T.: 14.352 min
Delta R.T.: 0.000 min
Response: 3594393
Conc: 53.80 µg/ml

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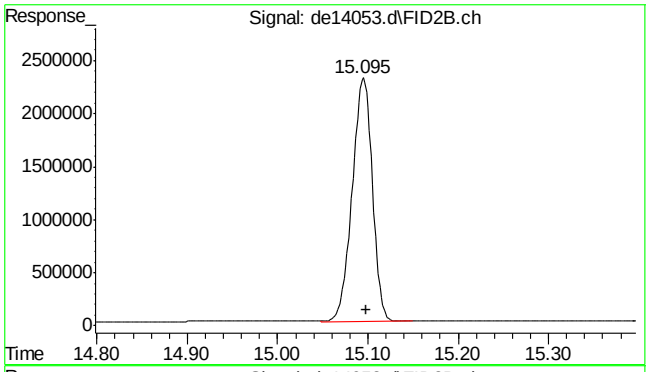
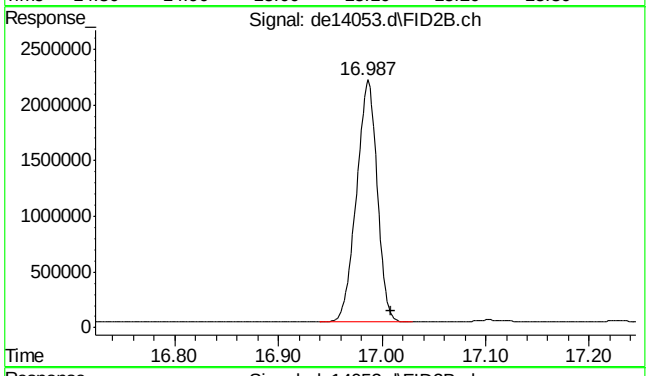


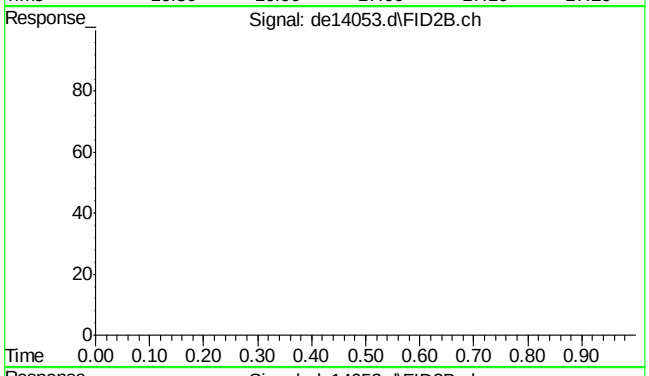
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3588372
Conc: 53.71 µg/ml



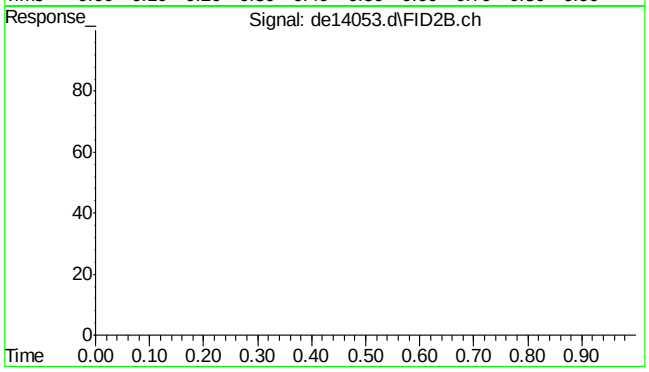
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 2998265
Conc: 44.88 µg/ml m



#42 bht

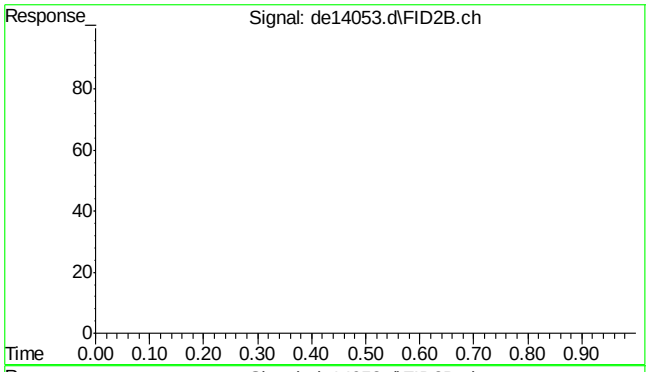
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

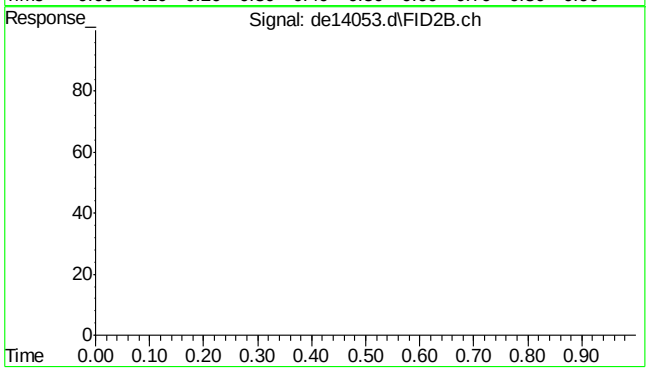
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45538



#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.
```

9.5.14

9

SGS ACCUTEST MC45538

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**

Accutest Laboratories of New England, Inc. Instrument: GC 32 (GCDE)

GC Analysis Log - Extractables

Run Date: 4-29-16 Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc
G518067	All CCV	50 ug/ml
↳ 055	Aro CCV	50 ug/ml

Column Information: Front : RTX-5 Alternate:
Rear : RTX-5 Alternate:
Sequence File: DE160429EPH3
Quantitation Methods: EPH 160429W.M
Instrument Run Batches: GDE781
Data Acquisition Methods: EPH DUMCW Inj. Vol: 1ml
Inj. Vol:

Date of ICAL: 2-4-16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/142	DE13 980	CCC735-50	N/A	MA EPH	N/A	N/A	OK
1/2	81	OP47246-BS	OP47246		✓		
3/4	82	-BSD					
5/6	83	-MB					
7/8	84	MC45538-1					
9/10	85	TC (50) 840444-1					
11/12	86	MC45147-31					
13/14	87	OP47246-MS					
15/16	88	-MSD					
141/142	DE13989	CCC735-50	N/A		N/A		OK

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

GC011-01
Date: 03/26/07

Review:

48

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de13980.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50, gde781

Name	Amount	Response
c-9	50.32	3717378
c-10	50.77	3750140
c-12	50.75	3749319
c-14	49.94	3689093
c-16	49.51	3657596
c-18	49.49	3655590
c-19	54.42	3635906
c-20	53.16	3551382
c-22	52.98	3539673
c-24	49.44	3302776
c-26	52.43	3502913
c-28	50.65	3383650
c-30	50.51	3374168
c-36	41.52	2773579

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	74064	73872	**0.26**	**In Criteria**
C19-C36	67660	66806	**1.27**	**In Criteria**

c28/c20 Percentage: 95.28

1-chlorooctadecane	50.82	2875325
naphthalene #2	50.26	4014734
2-methylnaphthalene	49.77	4009880

SGS ACCUTEST MC45538

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de13989.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50, gde781

Name	Amount	Response
c-9	51.64	3814696
c-10	52.29	3862689
c-12	51.66	3816491
c-14	51.02	3769182
c-16	50.15	3705019
c-18	49.80	3678584
c-19	54.59	3646629
c-20	53.49	3573721
c-22	52.97	3539017
c-24	49.39	3299743
c-26	52.39	3499730
c-28	50.56	3377521
c-30	50.37	3364756
c-36	42.07	2810328
1-chlorooctadecane	51.01	2886001
naphthalene #2	51.36	4102510
2-methylnaphthalene	50.78	4090815

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	75489	73872	**2.16**	**In Criteria**
C19-C36	67779	66806	**1.44**	**In Criteria**
c28/c20 Percentage:			94.51	

9.6.2

9

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47246-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		12.88	50	51.53	
2-methylnaphthalene		13.94	50	55.77	
2-fluorobiphenyl	s	16.90	40	84.49	
acenaphthylene		15.43	50	61.70	
2-bromonaphthalene	s	15.01	40	75.06	
acenaphthene		17.10	50	68.39	
fluorene		17.07	50	68.27	
phenanthrene		18.41	50	73.64	
anthracene		22.05	50	88.20	
o-terphenyl	s	16.33	40	81.65	
fluoranthene		21.48	50	85.93	
pyrene		21.35	50	85.40	
benzo(a)anthracene		21.17	50	84.69	
chrysene		23.13	50	92.50	
benzo(B)fluoranthene		20.70	50	82.79	
benzo(k)fluoranthene		22.48	50	89.91	
benzo(a)pyrene		21.42	50	85.67	
indeno(1,2,3-cd)pyrene		14.21	50	56.85	
dibenzo(ah)anthracene		19.10	50	76.40	
benzo(ghi)perylene		21.88	50	87.52	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		12.99	50	51.96	
c-10		15.39	50	61.57	
c-12		16.97	50	67.89	
c-14		17.40	50	69.60	
c-16		18.39	50	73.56	
c-18		19.70	50	78.79	
c-19		21.87	50	87.49	
c-20		21.29	50	85.16	
1-chlorooctadecane	s	15.05	40	75.26	
c-22		21.24	50	84.98	
c-24		21.00	50	83.99	
c-26		20.55	50	82.21	
c-28		20.25	50	80.99	
c-30		20.50	50	82.02	
c-36		18.47	50	73.87	

Recovery C9-C18
67.23

Recovery C19-C36
82.59

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47246-bsd

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		14.91	50	59.66	
2-methylnaphthalene		17.27	50	69.09	
2-fluorobiphenyl	s	19.29	40	96.47	
acenaphthylene		17.40	50	69.62	
2-bromonaphthalene	s	18.01	40	90.05	
acenaphthene		20.46	50	81.82	
fluorene		19.12	50	76.46	
phenanthrene		20.22	50	80.88	
anthracene		23.72	50	94.88	
o-terphenyl	s	16.97	40	84.85	
fluoranthene		23.53	50	94.10	
pyrene		23.43	50	93.73	
benzo(a)anthracene		23.30	50	93.19	
chrysene		24.68	50	98.70	
benzo(B)fluoranthene		23.63	50	94.53	
benzo(k)fluoranthene		24.51	50	98.04	
benzo(a)pyrene		23.13	50	92.53	
indeno(1,2,3-cd)pyrene		13.81	50	55.22	
dibenzo(ah)anthracene		19.35	50	77.41	
benzo(ghi)perylene		23.84	50	95.35	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		12.58	50	50.33	
c-10		14.98	50	59.92	
c-12		16.34	50	65.35	
c-14		16.64	50	66.54	
c-16		17.17	50	68.68	
c-18		18.20	50	72.78	
c-19		20.09	50	80.35	
c-20		19.85	50	79.39	
1-chlorooctadecane	s	12.91	40	64.53	
c-22		19.60	50	78.42	
c-24		19.28	50	77.14	
c-26		18.83	50	75.33	
c-28		18.62	50	74.46	
c-30		18.45	50	73.79	
c-36		15.95	50	63.80	

Recovery C9-C18
63.93

Recovery C19-C36
75.33

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.02	0.00	0.12

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4/29/2016 3:11 PM

SGS Accutest, Inc.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.4.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
GS18064	Al CCV	50 ug/ml
↓ 055	Ab CCV	50 ug/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: DE16C504.S
Quantitation Methods: EPH160504W.m

Instrument Run Batches: GDE 784

Data Acquisition Methods: EPH DOHLW Inj. Vol: 1 ml
Inj. Vol:

Date of ICAL: 2.4.16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/142	DE14012	Prime	OP47254	MA EPH	S	N/A	
141/142	13	CC735-50					OK
1/2	14	OP47259-BS					
3/4	15	-BSD					
5/6	16	-MB					
7/8	17	MC45419-3					
9/10	18	MC45503-2					
11/12	19	OP47259-MS					
13/14	20	-MSD					
141/142	DE14021	CC735-50					OK

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

GC014-01
Date: 9/15/10

Review:

1

SGS ACCUTEST MC45538

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14013.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50, gde784

Name	Amount	Response
c-9	50.55	3734273
c-10	51.25	3786223
c-12	50.78	3751475
c-14	50.40	3723215
c-16	49.98	3691958
c-18	49.94	3689513
c-19	55.03	3676148
c-20	54.00	3607664
c-22	53.59	3580275
c-24	50.30	3360250
c-26	53.54	3576973
c-28	51.73	3455925
c-30	51.89	3466700
c-36	43.32	2893762

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	74589	73872	**0.97**	**In Criteria**
C19-C36	69044	66806	**3.29**	**In Criteria**

c28/c20 Percentage: 95.79

1-chlorooctadecane	51.54	2916022
naphthalene #2	50.59	4040362
2-methylnaphthalene	49.87	4017774

9.6.3

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BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14021.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50, gde784

Name	Amount	Response
c-9	53.55	3955677
c-10	54.17	4001855
c-12	53.46	3949275
c-14	52.90	3907670
c-16	52.22	3857327
c-18	51.99	3840659
c-19	57.11	3815184
c-20	56.00	3741224
c-22	55.68	3719824
c-24	51.85	3463615
c-26	55.01	3674885
c-28	53.01	3541572
c-30	52.81	3528036
c-36	43.93	2934785

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	78375	73872	**5.92**	**In Criteria**
C19-C36	71048	66806	**6.15**	**In Criteria**

c28/c20 Percentage: 94.66

1-chlorooctadecane	53.47	3025183
naphthalene #2	53.30	4257331
2-methylnaphthalene	52.55	4233508

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47259-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		16.54	50	66.17	
2-methylnaphthalene		17.41	50	69.62	
2-fluorobiphenyl	s	17.24	40	86.21	
acenaphthylene		18.70	50	74.82	
2-bromonaphthalene	s	15.82	40	79.11	
acenaphthene		19.50	50	78.00	
fluorene		19.69	50	78.78	
phenanthrene		20.54	50	82.14	
anthracene		24.79	50	99.15	
o-terphenyl	s	18.32	40	91.60	
fluoranthene		23.18	50	92.71	
pyrene		22.95	50	91.79	
benzo(a)anthracene		24.33	50	97.33	
chrysene		23.83	50	95.31	
benzo(B)fluoranthene		24.35	50	97.40	
benzo(k)fluoranthene		24.79	50	99.16	
benzo(a)pyrene		24.90	50	99.60	
indeno(1,2,3-cd)pyrene		24.82	50	99.27	
dibenzo(ah)anthracene		25.10	50	100.39	
benzo(ghi)perylene		25.50	50	101.99	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.40	50	61.60	
c-10		17.74	50	70.97	
c-12		18.98	50	75.92	
c-14		19.73	50	78.91	
c-16		20.81	50	83.23	
c-18		22.44	50	89.75	
c-19		24.89	50	99.57	
c-20		25.26	50	101.05	
1-chlorooctadecane	s	18.87	40	94.34	
c-22		25.78	50	103.11	
c-24		25.65	50	102.62	
c-26		25.22	50	100.86	
c-28		25.07	50	100.27	
c-30		25.20	50	100.80	
c-36		22.28	50	89.13	

Recovery C9-C18
76.73

Recovery C19-C36
99.68

naphthalene #2	0.06	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.06	0.38	0.36

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47259-bsd

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		21.05	50	84.19	
2-methylnaphthalene		21.19	50	84.75	
2-fluorobiphenyl	s	20.60	40	103.00	
acenaphthylene		21.61	50	86.42	
2-bromonaphthalene	s	19.29	40	96.47	
acenaphthene		23.65	50	94.60	
fluorene		22.32	50	89.27	
phenanthrene		22.26	50	89.04	
anthracene		25.78	50	103.14	
o-terphenyl	s	20.75	40	103.77	
fluoranthene		24.21	50	96.83	
pyrene		24.16	50	96.65	
benzo(a)anthracene		24.53	50	98.11	
chrysene		24.73	50	98.91	
benzo(B)fluoranthene		24.51	50	98.05	
benzo(k)fluoranthene		24.67	50	98.68	
benzo(a)pyrene		25.06	50	100.23	
indeno(1,2,3-cd)pyrene		24.69	50	98.74	
dibenzo(ah)anthracene		24.90	50	99.61	
benzo(ghi)perylene		25.10	50	100.38	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		16.02	50	64.09	
c-10		17.92	50	71.67	
c-12		18.74	50	74.97	
c-14		18.80	50	75.18	
c-16		18.90	50	75.58	
c-18		19.93	50	79.71	
c-19		22.06	50	88.25	
c-20		22.42	50	89.70	
1-chlorooctadecane	s	13.61	40	68.06	
c-22		22.83	50	91.31	
c-24		22.85	50	91.40	
c-26		22.47	50	89.86	
c-28		22.19	50	88.76	
c-30		21.63	50	86.51	
c-36		16.13	50	64.52	

Recovery C9-C18
73.53

Recovery C19-C36
86.29

naphthalene #2	0.05	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.05	0.25	0.26

SGS Accutest, Inc.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.9.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
G518067	Air CCV	50µg/ml
↓ 055	Air CCV	50µg/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: DE160509.S
Quantitation Methods: EPH160509W.m

Instrument Run Batches: GDE 787

Data Acquisition Methods: EPH DUAL W Inj. Vol: 1µl
Inj. Vol:

Date of ICAL: 2.4.16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
1/1/1/42	DE14041	CL735-50	N/A	MA EPH	N/A	N/A	ok
1/2	42	MC45503-1	OP47259		S		
3/4	43	MC45504-1					
5/6	44	-2					
7/8	45	-4					
1/1/1/42	DE14046	CL735-50	N/A		N/A		ok
9/10	47	MC45538-2	OP47259		S		
11/12	48	MC45565-1					
13/14	-49	-2					
15/16	50	-3					
17/18	51	-4					
19/20	52	-5					
1/1/1/42	DE14053	CL735-50	N/A		N/A		ok

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N.A Lot#: N/A

GC014-01
Date: 9/15/10

Review:

4

9.6.4

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BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14041.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde787

Name	Amount	Response
c-9	52.85	3904005
c-10	54.18	4002730
c-12	53.74	3969906
c-14	53.14	3925366
c-16	52.40	3870836
c-18	52.73	3895617
c-19	57.32	3829122
c-20	56.28	3760066
c-22	55.81	3728686
c-24	52.01	3474587
c-26	55.10	3681135
c-28	52.97	3538961
c-30	52.53	3509521
c-36	41.92	2800528

1-chlorooctadecane	52.68	2980611		
naphthalene #2	53.26	4253964		
2-methylnaphthalene	52.75	4249785		

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	78562	73872	**6.15**	**In Criteria**
C19-C36	70807	66806	**5.81**	**In Criteria**

c28/c20 Percentage: 94.12

9.6.4

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BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14046.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde787

Name	Amount	Response
c-9	52.74	3896000
c-10	53.86	3978497
c-12	53.72	3968576
c-14	53.30	3937303
c-16	52.79	3899585
c-18	52.92	3909034
c-19	57.80	3861716
c-20	56.71	3788289
c-22	56.38	3766626
c-24	52.43	3502629
c-26	55.59	3713895
c-28	53.49	3573519
c-30	53.20	3554103
c-36	43.86	2930439

1-chlorooctadecane	53.67	3036567		
naphthalene #2	53.18	4247546		
2-methylnaphthalene	52.72	4247496		

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	78630	73872	**6.24**	**In Criteria**
C19-C36	71728	66806	**7.11**	**In Criteria**

c28/c20 Percentage: 94.33

9.6.4

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14053.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50,gde787

Name	Amount	Response
c-9	51.97	3838962
c-10	53.15	3926119
c-12	53.09	3921960
c-14	52.74	3895693
c-16	52.19	3855181
c-18	52.27	3861288
c-19	57.22	3822594
c-20	56.23	3756210
c-22	55.92	3735677
c-24	52.28	3492596
c-26	55.68	3719575
c-28	53.80	3594393
c-30	53.71	3588372
c-36	44.88	2998265
1-chlorooctadecane	53.40	3021046
naphthalene #2	52.47	4190525
2-methylnaphthalene	52.13	4199603

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	77664	73872	**5.00**	**In Criteria**
C19-C36	71769	66806	**7.16**	**In Criteria**

c28/c20 Percentage: 95.69

9.6.4

9

SGS ACCUTEST

Extraction Log - Aqueous

Analysis Method: BMAEPHR

Date Started: _____ Time Started: _____

Date Finished: _____ Time Finished: _____

Extraction Method (Check one):

Sep. Funnel SW3510C ✓

Waste Dilution SW3580A _____ MSE EPA 3511 _____

pH paper lot# 216814 Equipment ID Used _____

Spike ID	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7483	2000	20
EPH Fri	7661	40	1 ml

	Sample #	Sample Bottle #	Acid pH	Base pH	Sample Description	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
	OP47246 MB	n/a	2	n/a		1000	2.0	
	BS							
	BSD							
	MC45147-31 MS							
	MSD							
	TM							
1	MC45538-1	1	2	n/a		930	2.0	
2	TC84044-1	4				890		
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								AJ 4/29/16
16								
17								
18								
19								
20								

Comments:

Witness Initials:

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

BATCH # OP47246	INITIALS	DATE	TIME
Extracted by:	JM MC	4/27/16	8:30
Spike Witness:	JM	↓	↓
Concentrated by:	ME/AJ	4/29/16	13:50
Fractionated by:	AJ	Volume (ml):	12.5
Received by:	[illegible]	4/29/16	13:50

Tray # E-5

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)	1	50/60	—
Waterbath Temp °C	005	40	—
NEVAP (32-38 °C)	—	—	—
Chiller	—	—	—
Balance	—	N/A	N/A

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/	—	Fisher	
ACETONE	—	Fisher	
1:1 METH CHLOR/	—	Fisher	
ACETONE	—	Fisher	
HEXANE Only	162040	Fisher	
ETHER	—	Fisher	
ACETONITRILE	—	Fisher	
ACETONE	—	Fisher	
DCM	162168	Fisher	

REAGENT	LOT #	BRAND
SPE MFG	3062895T	Restek
SILICA GEL	—	—
SODIUM SULFATE	D-018	FISHER
FILTER PAPER	9668411	↓
COPPER	—	—
FLORISIL	—	—
SULFURIC ACID	—	—
HYDROMATRIX	—	—
SAND	—	—
Filtered by:	Init./Date:	

SGS ACCUTEST - MARLBOROUGH
Form: OP018-02
Rev Date: 2/23/16

Analysis Method: BMAEPHR, BMAEPH

Date Started: _____ Time Started: _____

Date Finished: _____ Time Finished: _____

Extraction Method (Check one):

Microwave SW3546 #3

Waste Dilution SW3580A _____

Equipment ID Used _____

ASE SW 3545A _____

Sonication SW3550C* _____

Soxhlet SW3540C _____

MSE EPA 3570 _____

Spike ID	Lot #	Conc. (ug/ml)	Amt. (ul)
EPH	7653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Amt. (ul)
EPH	7483	2000	20
Frac	7661	40	1mL

	Sample #	Sample Bottle #	ASE Position #	Sample Description	Sample Wet Wt. (gram)	Final Extract Volume (mL)	Comments
	OP47259 MB	N/A	N/A		11.18	2.0	
	BS				11.92		
	BSD				11.87		
	MC45703-2 MS	3			11.34		
	MSD				11.51		
1	MC45419-3	3	N/A		11.90	2.0	
2	MC45503-1	4			11.16	2.0	
3	2	3			11.67	2.0	
4	MC45504-1				11.48	2.0	
5	2				11.81		
6	4				11.35		
7	MC45538-2	1			11.98		
8	MC45565-1	3			11.07		
9	2				11.30		
10	3				11.46		
11	4				11.60		
12	5				11.03		
13	6						SM 4/28
14							
15							
16							
17							
18							
19							
20							

Comments:

Witness Initials:

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

OP47259

Extracted by:	SM	4/28/16	9:30
Spike Witness:	MC	1	1
Concentrated by:	PA	5/2/16	
Fractionated by:	↓	Volume (ml):	
Received by:	TA	5/4/16	8:00

Tray # V-63/E-004

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)			
Waterbath Temp °C	088 2	75/80	
NEVAP (32-38 °C)			
Chiller			
Balance		N/A	N/A

*Sonnication Horn	ID	Tuned?	Initials
Misonix XL 2020			

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/		Fisher	
ACETONE		Fisher	
1:1 METH CHLOR/	162108	Fisher	
ACETONE	157950	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-018	Fisher
FILTER PAPER		
COPPER		
FLORISIL		
SULFURIC ACID		
HYDROMATRIX		
SAND		
FILTERED BY	Init./Date:	GIC 5/5/16

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: MC45538
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: MC45538-2 **Analyzed:** 30-APR-16 by MC **Method:** SM 2540G-97 MOD
ClientID: S-39(11-12)

Wet Weight (Total)	30.495	g
Tare Weight	20.878	g
Dry Weight (Total)	28.393	g
Solids, Percent	78.1	%